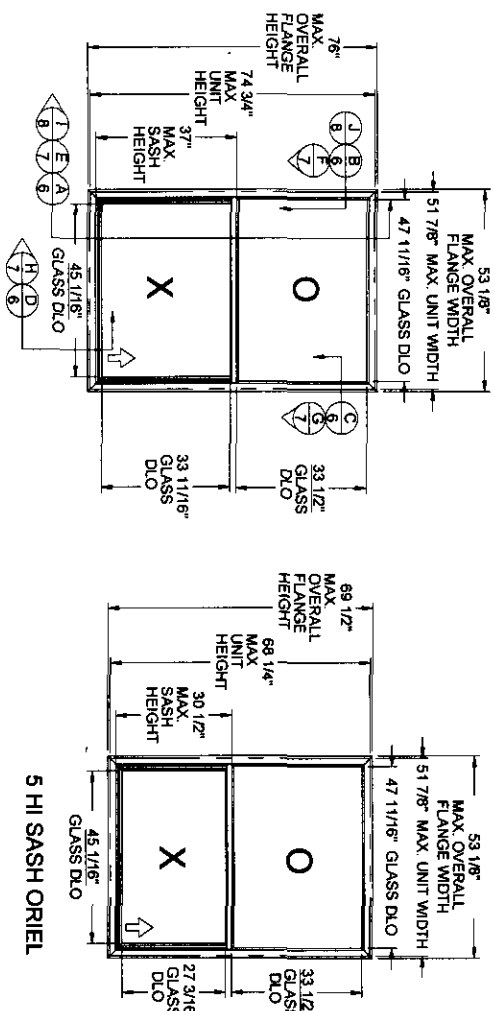
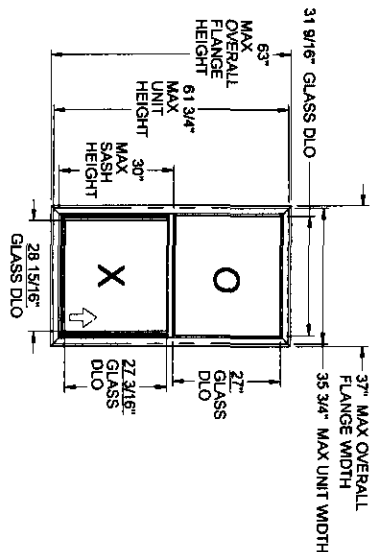


# SINGLE HUNG ELEVATION (IMPACT) (SHOWN W/ DIFFERENT OPTIONS)



## PVC IMPACT REQUIREMENT:

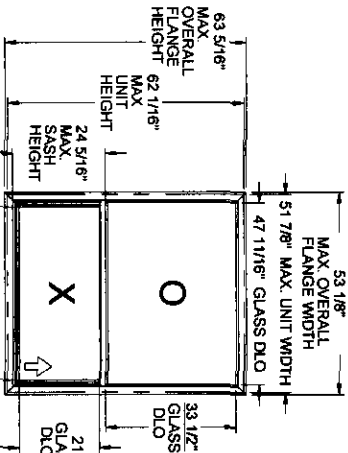
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2004 FLORIDA BUILDING CODE, CURRENT EDITION
2. GLAZING OPTIONS: (SEE SHEET 3)
3. CONFIGURATIONS: "O/X"
4. DESIGN PRESSURE RATING: (SEE TABLES SHEET 3)  
-NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-02.  
-POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E 1300-02.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 6-8 FOR ANCHOR DETAIL.
6. SHUTTERS ARE NOT REQUIRED.
7. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND JAMB.
8. REFERENCE TEST REPORTS: NCTL-210-3168-2, NCTL-210-3168-2A, NCTL-210-3168-3, NCTL-210-3168-3B
9. FLORIDA APPROVAL: FL5895.1, FL5895.2, FL5823.1 AND FL5823.2
10. SERIES / MODEL DESIGNATION SH-8100.
11. WOOD BUCK OR STUD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE, BUCK AND FRAMING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
12. THE DESIGNATION X AND O STAND FOR THE FOLLOWING: X = OPERABLE SASH, O = FIXED SASH
13. SECTION CALLOUTS FROM EQUAL SPLIT ELEVATION APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.



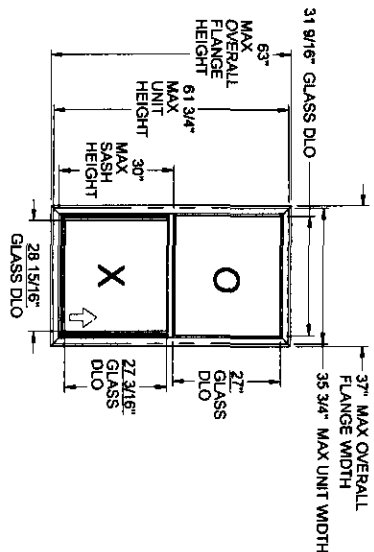
## TABLE OF CONTENTS

GENERAL NOTES & ELEVATIONS	1
ANCHOR SCHEDULE & NOTES	2
DP CHARTS & GLAZING DETAIL	3
SECTION VIEWS	4
EXTRUSIONS & B.O.M.	5
INSTALLATION DETAIL	6-8

## 60/40 SPLIT ORIEL

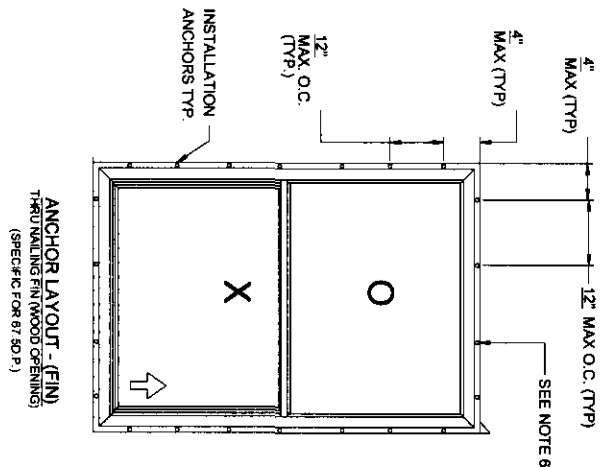
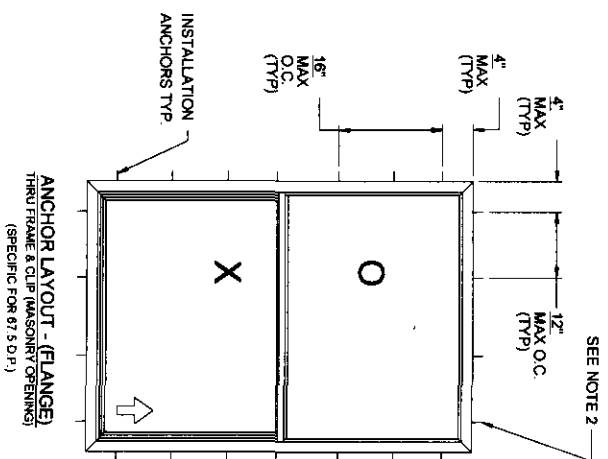
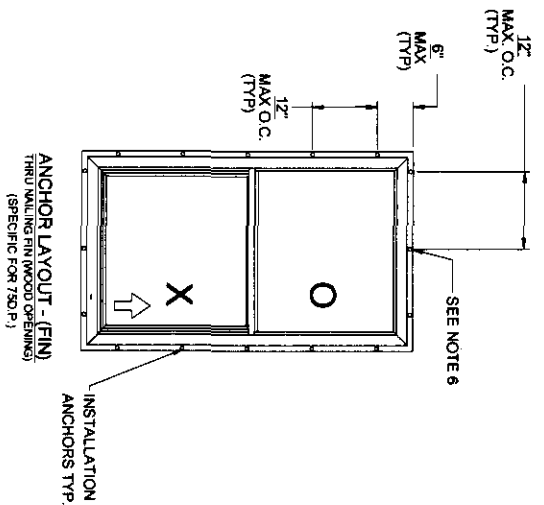
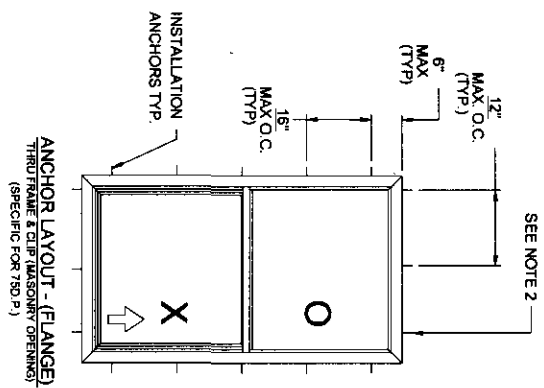


## 4 HI SASH ORIEL



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1900 SW 44TH AVE. OCALA, FLORIDA 34474	
TITLE: GENERAL NOTES & ELEVATIONS - IMPACT SERIES: PVC SINGLE HUNG MODEL: 8100	DRAWN BY: ADE SCALE: NTS REV LETTER:
DATE: 3/21/2007 DWG NO.: CWS-155 SHEET: 1 OF 8	



# NOTES:

1. INSTALL ONE INSTALLATION ANCHOR AT EACH LOCATION.
2. SHIM AS REQ'D AT EACH SET OF INSTALLATION ANCHORS USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT.
3. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
4. 3/16" DIA. ELCO TAPCON (OR EQUIV.) MASONRY ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A MIN. EMBEDMENT OF 1 1/4" INTO MASONRY THRU FRAME OR THRU 1 BY WOOD BUCK INTO MASONRY. A MINIMUM EDGE DISTANCE OF 2 1/2" SHALL BE ACHIEVED.
5. #10 WOOD SCREW ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A MIN. EMBEDMENT OF 1 1/2" INTO 2 BY WOOD BUCK.
6. #8 WOOD SCREW ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A MIN. EMBEDMENT OF 1 1/2" INTO 2 BY WOOD BUCK FOR FIN INSTALLATION.
7. SEAL CORNERS WITH SMALL JOINT SEAM SEALANT.
8. ALL INSTALLATION ANCHORS MUST BE MADE OF A CORROSION RESISTANT MATERIAL OR COATING.

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**Professional Engineer**  
E.O. 02514  
11/15/07  
3/4/07

**Custom**  
1500 SW 44TH AVE.  
OCALA, FLORIDA 34474

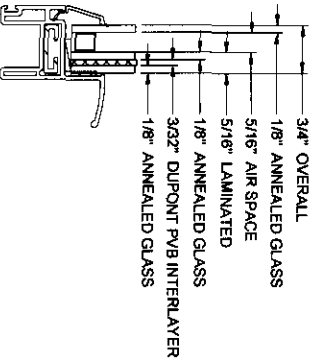
TITLE: ANCHOR SCHEDULE & NOTES - IMPACT		DATE: 3/21/2007
SERIES: PVC SINGLE HUNG	DRAWN BY: ADE	DWG. NO.: CWS-155
MODEL: 8700	SCALE: NTS	SHEET: 2 OF 8
REV LETTER:		

MODULAR SIZES (UNIT - WINDOW SIZE)

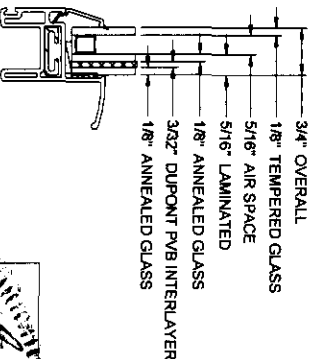
WIDTH (IN)	GLASS TYPE	HEIGHT (IN)															
		27 1/2	28 1/2	31 1/2	36 1/2	38 1/2	41 1/2	43 1/2	47 1/2	51 1/2	53 1/2	56 1/2	59 1/2	63 1/2	66 1/2	67 1/2	74 3/4
23 1/2	A, B	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5
27 1/2	A, B	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5
29 1/2	A, B	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5
31 1/2	A, B	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5
36 1/2	A, B	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5
38 1/2	A, B	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5
41 1/2	A, B	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5
43 1/2	A, B	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5
47 1/2	A, B	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5
51 1/2	A, B	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5

COMMODITY SIZES (TIP TO TIP)

WIDTH (IN)	GLASS TYPE	26	36 3/8	50 5/8	56	63	72	76
19 1/8	A, B	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+67.5/-67.5	+67.5/-67.5
26 1/2	A, B	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+67.5/-67.5	+67.5/-67.5
37	A, B	+75/-75	+75/-75	+75/-75	+75/-75	+75/-75	+67.5/-67.5	+67.5/-67.5
53 1/8	A, B	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5	+67.5/-67.5



GLASS TYPE A



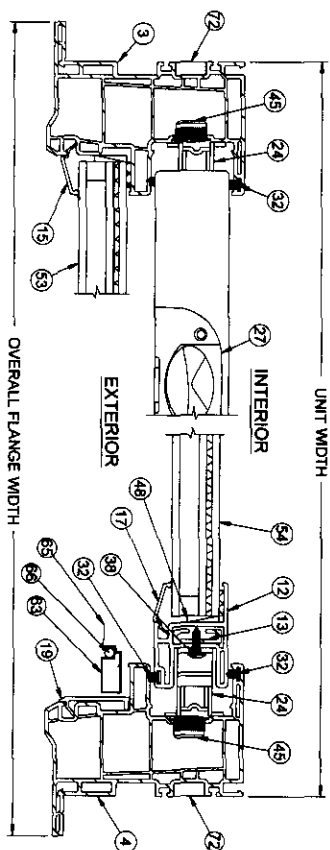
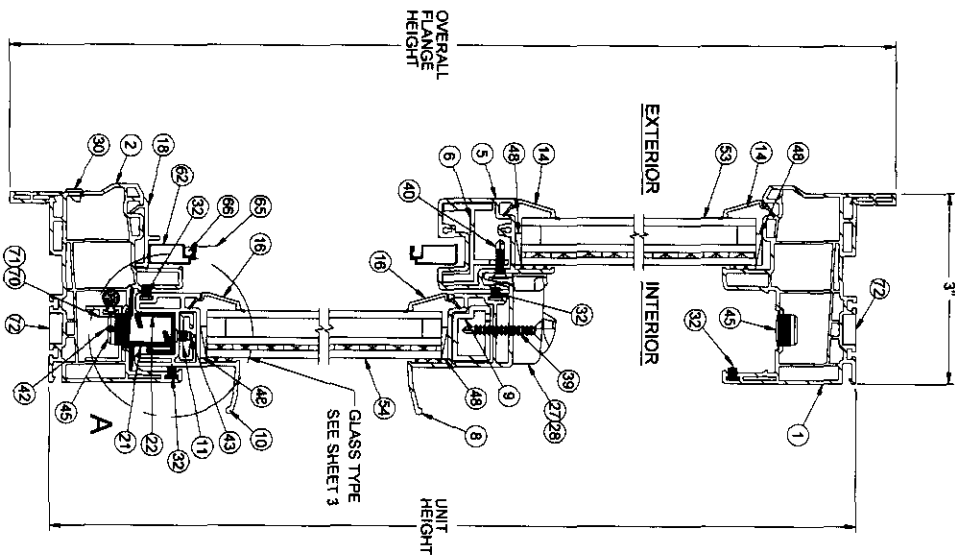
GLASS TYPE B

NOTE:  
1. IF SIZE INTENDED IS NOT SHOWN, USE NEXT  
LARGER SIZE.

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**Customer**  
 1500 SW 44TH AVE.  
 OCEA, FLORIDA 34474  
 TITLE: CHART & GLAZING DETAIL - IMPACT  
 SCALE: 1/8" = 1'-0"  
 DATE: 3/21/2007  
 DRAWN BY: ADE  
 CHECKED BY: NTS  
 REV LETTER: SHEET: 3 OF 8

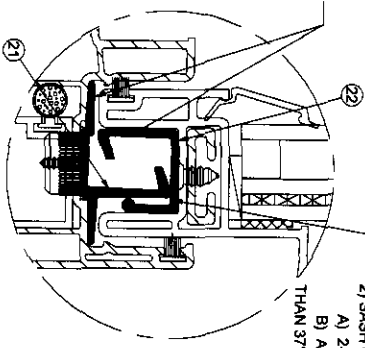
TYPICAL VERTICAL SECTION



TYPICAL HORIZONTAL SECTION  
NOTE: LEFT SIDE SHOWS SASH CUT AWAY.  
RIGHT SIDE SHOWS SASH CUT AWAY.

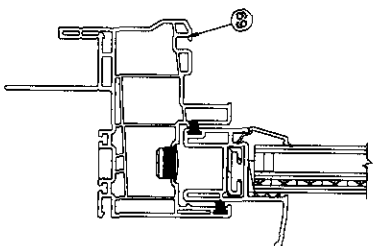
IMPACT HOOKS APPLIES  
WHEN UNIT WINDOW  
SIZE EXCEEDS 37" WIDE  
AND/OR 63" HIGH.

DETAIL A



- IMPACT HOOK SPACING:
- 1) SILL HOOKS:  
A) 6" FROM UNIT EDGE TO EDGE OF HOOK.  
B) A THIRD HOOK IS CENTERED IF UNIT WIDTH IS GREATER THAN 37".
- 2) SASH CATCH:  
A) 2-1/2" FROM SASH CORNER TO EDGE OF CATCH.  
B) A THIRD CATCH IS CENTERED IN SASH IF UNIT WIDTH IS GREATER THAN 37". SASH AND FRAME HOOKS ARE TO ALIGN WITHIN 1/4".

ALTERNATE FIN FRAME

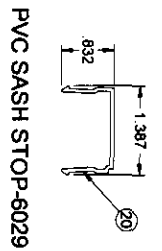
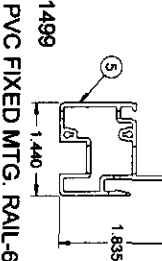
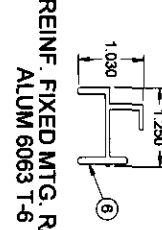
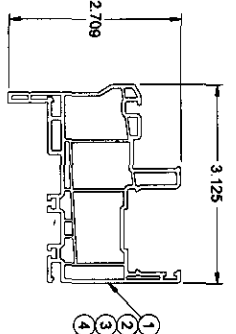
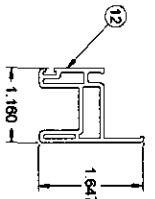
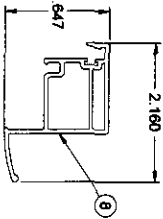
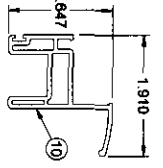
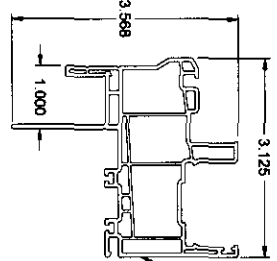


NOTE: ITEMS USED BUT NOT SHOWN FOR CLARITY  
ARE: 20, 23, 25, 26, 31, 37, 44, 46, 47, 49, 52, 55, 63, 64, 67, 68.

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<b>Obston</b> WINDOW SYSTEMS, INC. 1900 SW 44TH AVE. OCALA, FLORIDA 34474	
TITLE: SECTION VIEWS & ALT. FRAME - IMPACT SERIES: PVC SINGLE HUNG MODEL: 8100 SCALE: NTS REV LETTER:	
DATE: 3/21/2007	DWG. NO.: CWS-155
SHEET: 4 OF 8	

Item #	Part #	Description
1	H-6031	Main Fr., SH, w/Fib., PVC, Head
2	H-6031	Main Fr., SH, w/Fib., PVC, SH
3	H-6031	Main Fr., SH, w/Fib., PVC, L.J.
4	H-6031	Main Fr., SH, w/Fib., PVC, R.J.
5	H-6031	Meet. Rail, Fxd.
6	H-6031	Reinf. Fxd. MR
7	H-6031	Reinf. Fxd. MR
8	H-6031	Reinf. Fxd. MR
9	H-6031	Reinf. Fxd. MR
10	H-6031	Reinf. Fxd. MR
11	H-6031	Reinf. Fxd. MR
12	H-6031	Reinf. Fxd. MR
13	H-6031	Reinf. Fxd. MR
14	H-6031	Reinf. Fxd. MR
15	H-6031	Reinf. Fxd. MR
16	H-6031	Reinf. Fxd. MR
17	H-6031	Reinf. Fxd. MR
18	H-6031	Reinf. Fxd. MR
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70	H-6031	Reinf. Fxd. MR
71	H-6031	Reinf. Fxd. MR
72	H-6031	Reinf. Fxd. MR



PVC FRAME FLANGE-6031

PVC SASH BTM. RAIL-6028

PVC SASH MTG. RAIL-6027

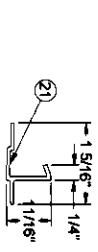
PVC SASH SIDE RAIL-6004

PVC FRAME FIN-6026

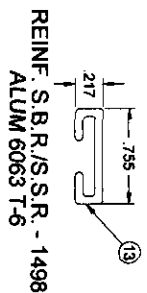
REINF. FIXED MTG. RAIL-1499

PVC FIXED MTG. RAIL-6001

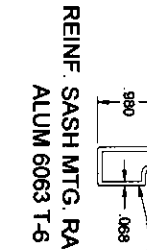
PVC SASH STOP-6029



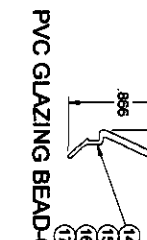
FR. HOOK IMPACT (SH SILL)  
ALUMINUM 6063-T6



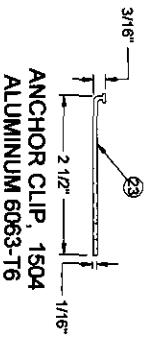
REINF. S.B.R./S.R. - 1498  
ALUM 6063 T-6



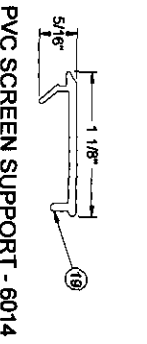
REINF. SASH MTG. RAIL-1497  
ALUM 6063 T-6



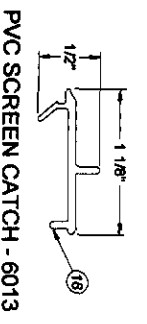
PVC GLAZING BEAD-6016



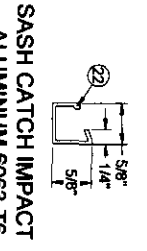
ANCHOR CLIP, 1504  
ALUMINUM 6063-T6



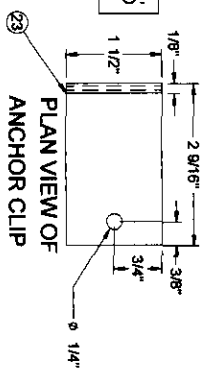
PVC SCREEN SUPPORT - 6014



PVC SCREEN CATCH - 6013



SASH CATCH IMPACT  
ALUMINUM 6063-T6



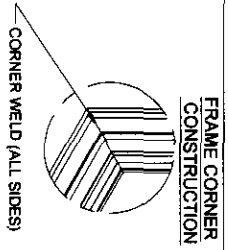
PLAN VIEW OF  
ANCHOR CLIP

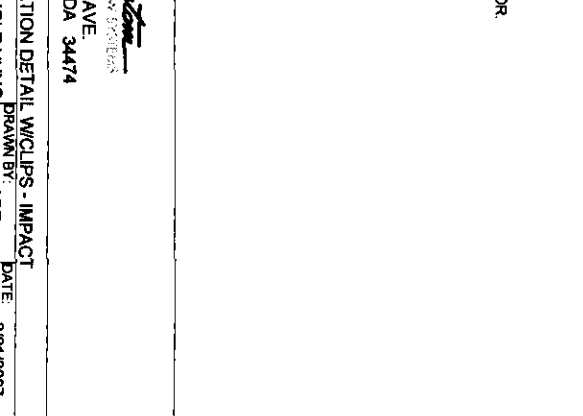
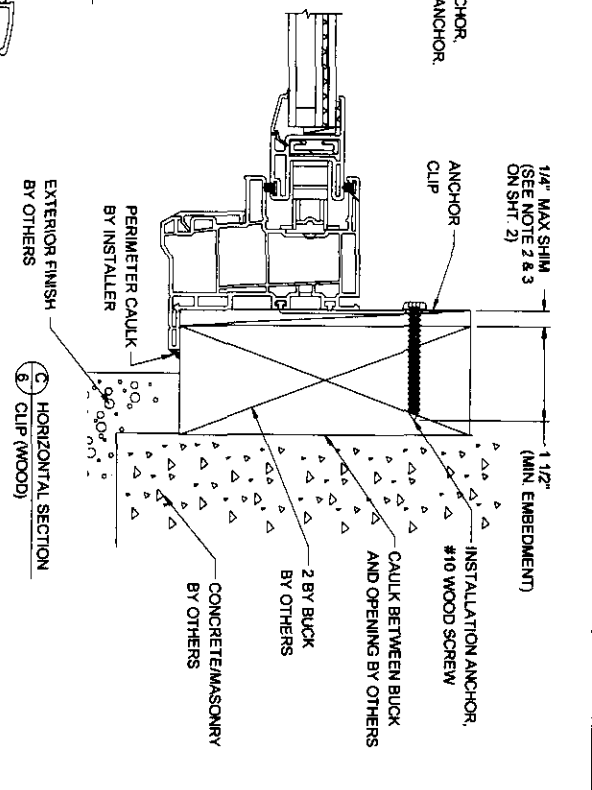
NOTES: ITEMS 33-36, 41,  
50, 56-61 ARE NOT USED  
ON THIS PRODUCT.

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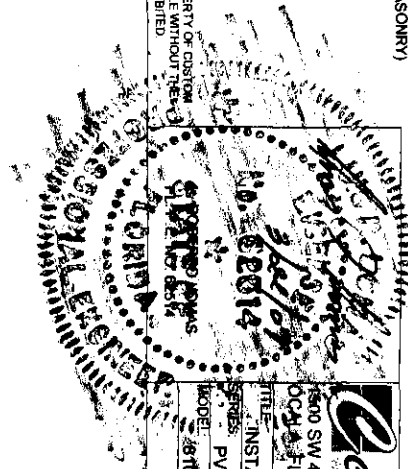
**Curtain Window Systems, Inc.**  
 1801 SW 44TH AVE.  
 MIAMI, FLORIDA 33144

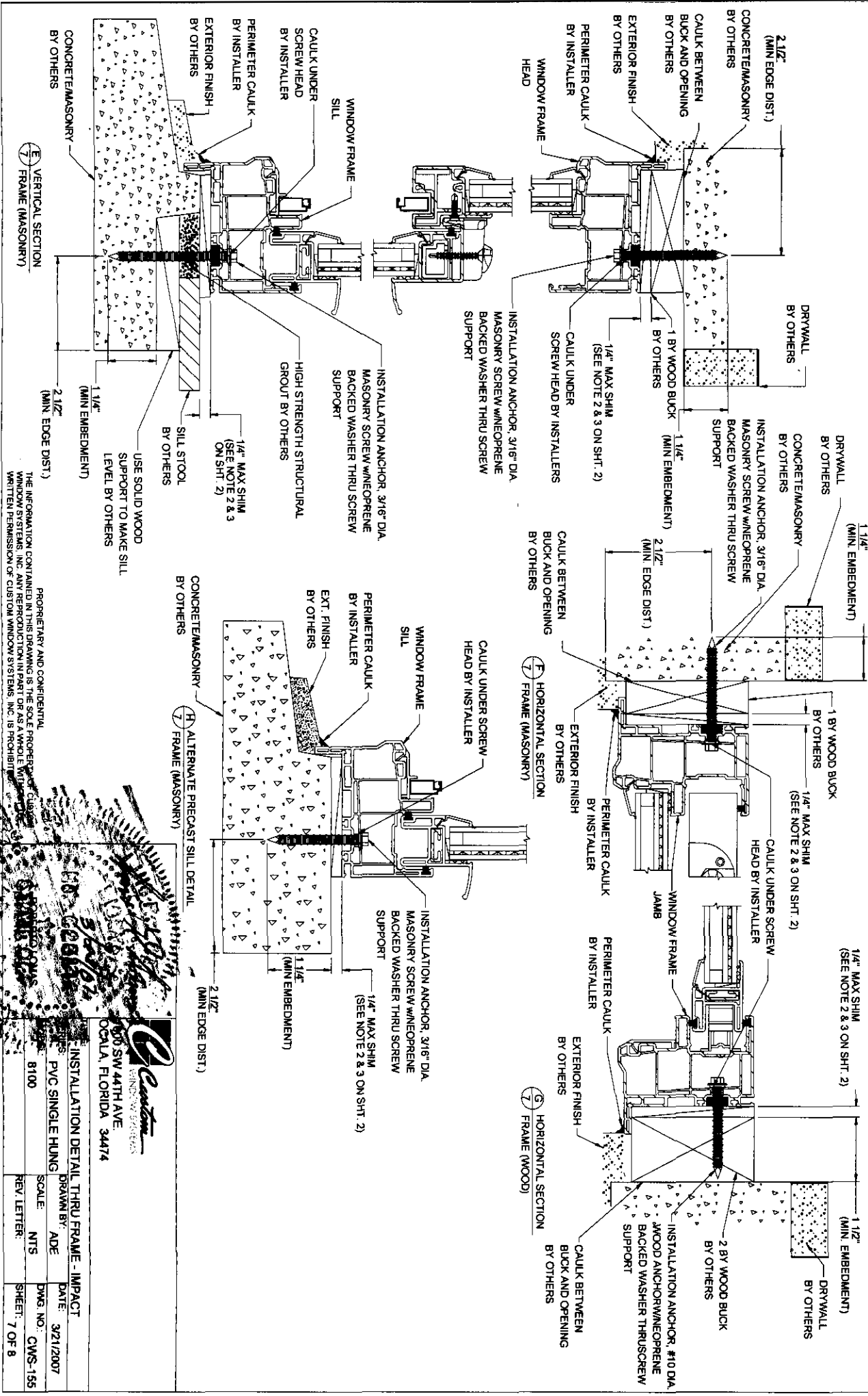
**ITEM:** EXTRUSIONS / B.O.M. - IMPACT  
**MODEL:** PVC SINGLE HUNG  
**SCALE:** ADE  
**DATE:** 9/21/2007  
**REV. LETTER:** NTS  
**DWG. NO.:** CWS-155  
**SHEET:** 5 OF 8





INSTALLATION DETAIL W/CUPS - IMPACT		DATE:	3/21/2007
SERIES:	PVC SINGLE HUNG	DRAWN BY:	ADE
MODEL:	60700	SCALE:	NTS
		REV. LETTER:	
		DWG. NO.:	CWS-155
		SHEET:	6 OF 8





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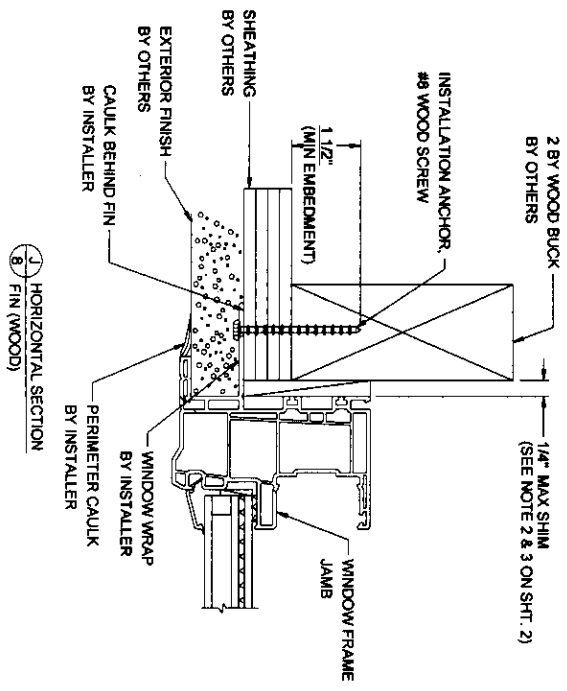
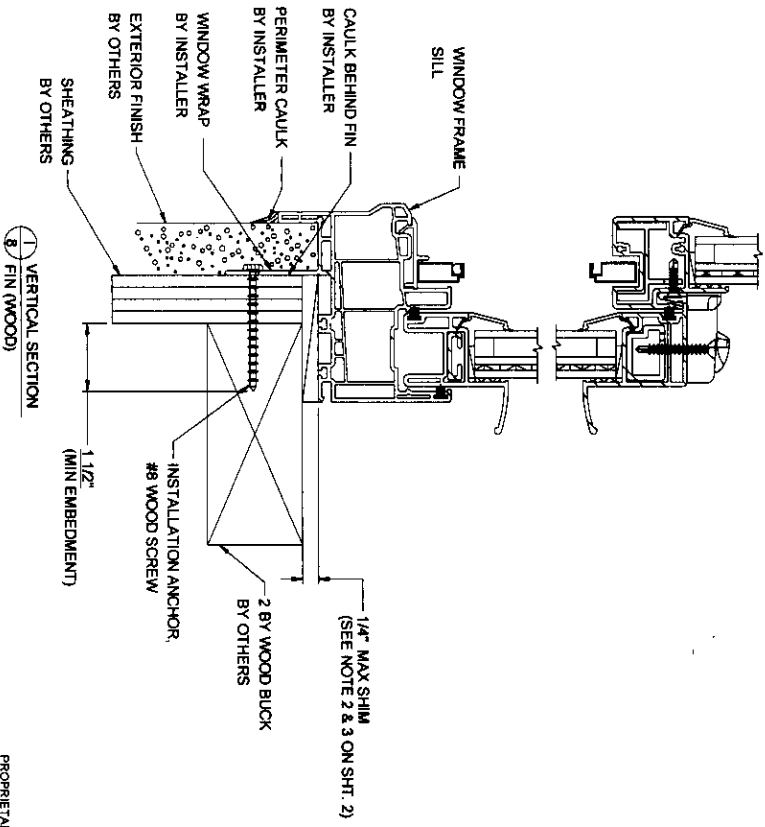
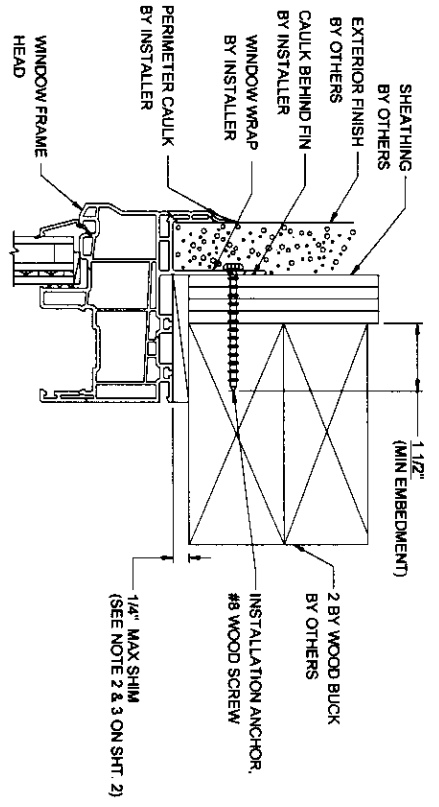
**CLIMATE**

WINDOW SYSTEMS, INC.

600 SW 44TH AVE.

OCALA, FLORIDA 34474

INSTALLATION DETAIL THRU FRAME - IMPACT			
DATE:	3/21/2007	DWG. NO.:	CWS-155
SCALE:	NTS	REV. LETTER:	SHEET: 7 OF 8
PVC SINGLE HUNG		8100	



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**Customer**  
 1500 SW 14TH AVE  
 MIAMI, FLORIDA 33144  
 PHONE: 305-261-1111  
 FAX: 305-261-1112  
 E-MAIL: SALES@CUSTOMER.COM

**INSTALLATION DETAIL WOOD CONST. - IMPACT**

DATE: 3/21/2007	SCALE: NTS	DWG. NO.: CWS-155
REV. LETTER:	REV. LETTER:	SHEET: 8 OF 8