

ATRIUM COMPANIES, INC.

30/230 HORIZONTAL SLIDING WINDOW (IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E. WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. **FINLESS INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. **FINLESS INSTALLATION:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
7. **FINLESS INSTALLATION:** FOR INSTALLATION THROUGH STEEL STUD USE #10 SELF-TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM ENGAGEMENT INTO STEEL FRAME SUBSTRATE.
8. **FIN INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
9. **FIN INSTALLATION:** FOR INSTALLATION THROUGH STEEL STUD USE #8 SELF-TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM ENGAGEMENT INTO STEEL FRAME SUBSTRATE.
10. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
11. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
12. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
13. 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 BY THE ANCHOR MANUFACTURER.
14. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
 - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 0.033 MILS. (20 GAUGE)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2006 IRC/IBC, THE 2006 TEXAS REVISIONS, EFFECTIVE JANUARY 1, 2008, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101.1/S.2/A440-05
 - ASTM E 1886-05
 - ASTM E 1996-05
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, STEEL STUD, AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: WHITE OR BEIGE VINYL
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAIL.

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SHEET	REVISION	SHEET DESCRIPTION
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2	-	ELEVATION & ANCHOR LAYOUT
3	-	VERTICAL SECTIONS & GLAZING DETAIL
4	-	HORIZONTAL SECTIONS
5	-	BILL OF MATERIALS

DESIGN PRESSURE RATING	
DESIGN PRESSURE	MISSILE IMPACT RATING
+55 / -55 PSF	LARGE AND SMALL MISSILE IMPACT RATED



9001 AMBASSADOR ROW
DALLAS, TEXAS 75247
PH: (214) 637-2696 FX: (214) 424-6734

TITLE:
30/230 HS (IMPACT)
INSTALLATION &
GENERAL NOTES

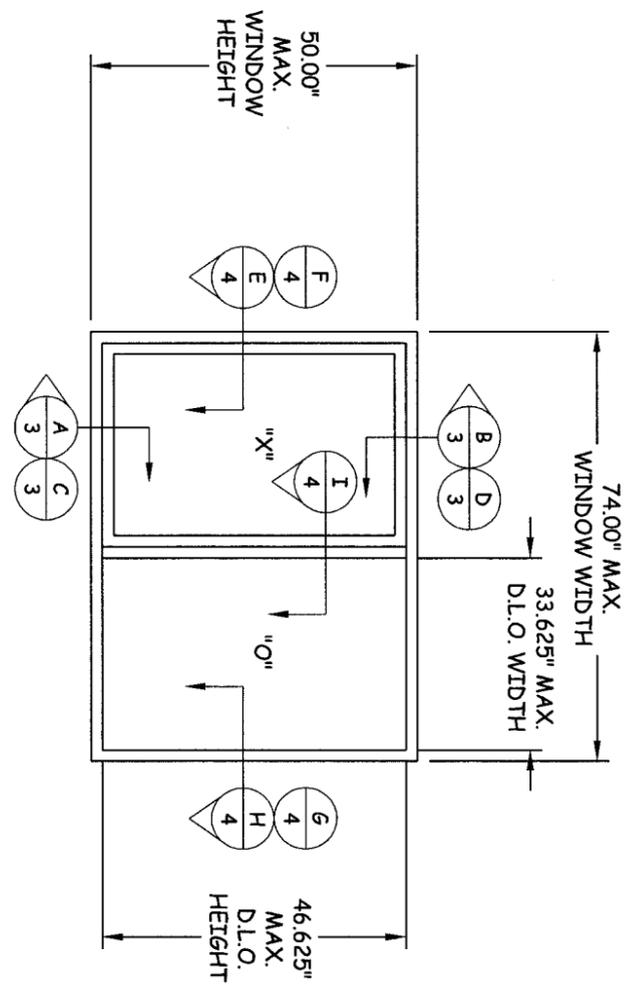
PREPARED BY:
CERTWORKS, LLC
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6957 FX: (407) 644-2366

REVISIONS			
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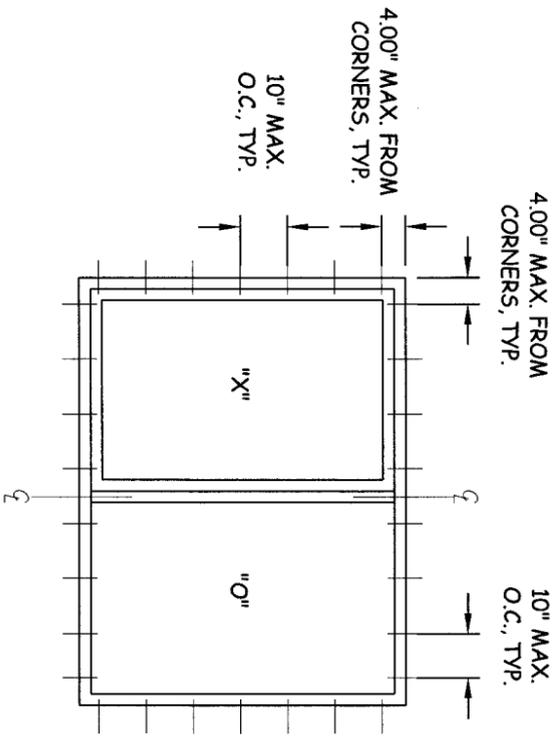
KRISTINA S. BALCHERTY
 TEXAS P. E. NO. 104390
 127 W. FAIRBANKS AVE., STE. 438
 WINTER PARK, FL 32789

DATE: 3.31.10
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CHK BY: KSD
SCALE: NTS

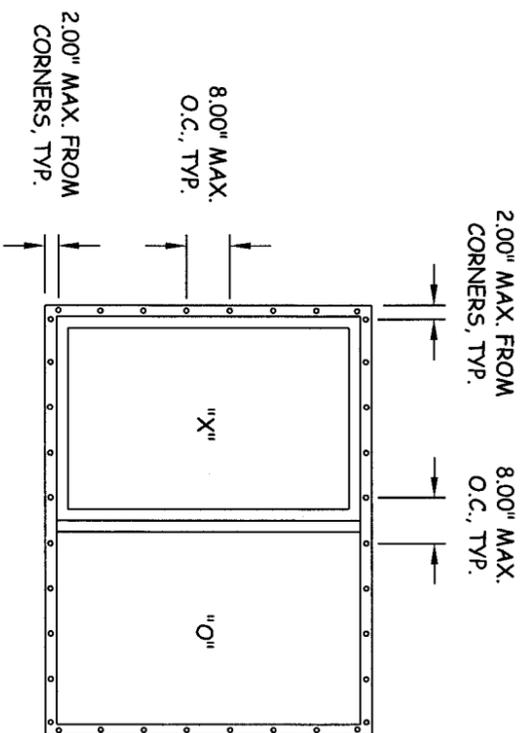
DWG #: ATR014
SHEET: 1 OF 5



ELEVATION



ANCHOR LAYOUT
FINLESS INSTALLATION



ANCHOR LAYOUT
FIN INSTALLATION



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TITLE:
30/230 HS (IMPACT)
ELEVATION &
ANCHOR LAYOUT

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REVISIONS

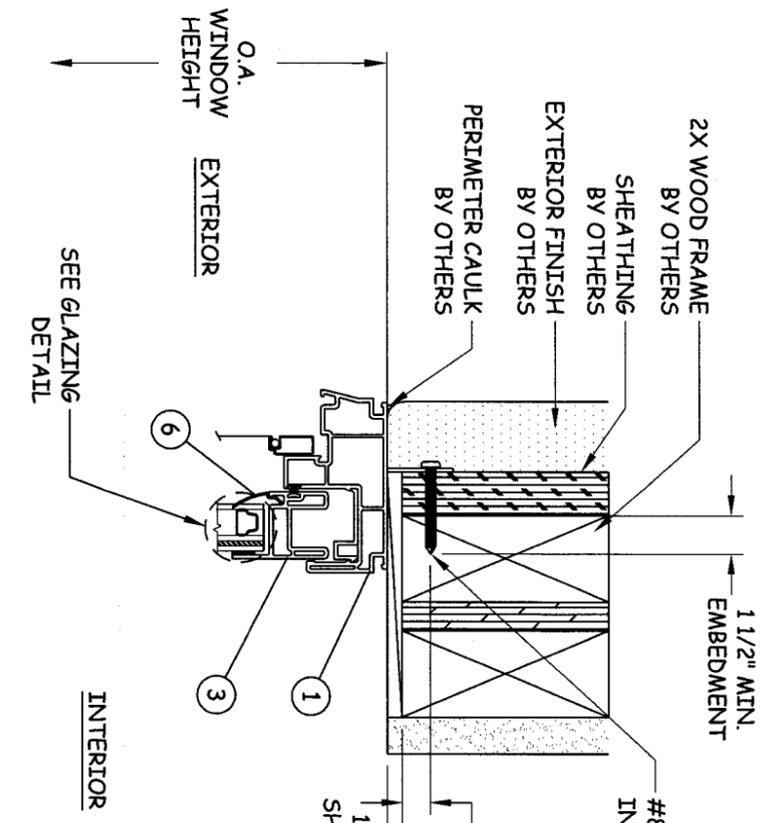
NO.	DESCRIPTION	BY	DATE

[Signature]
8-27-10
KRISHNA S. DALSHERTY
TEKAS P.E. NO. 104630
127 W. FAIRBANKS AVE. STE. 438
WINTER PARK, FL 32789

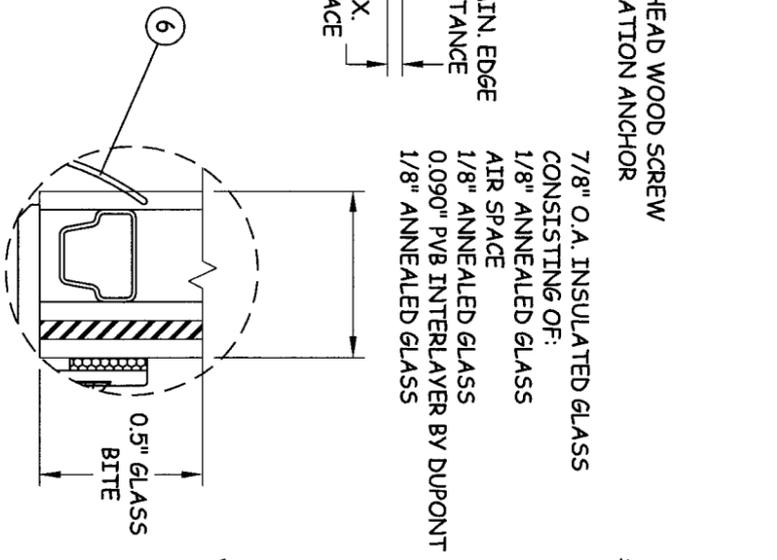
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DWN BY: MS
CHK BY: KSD
SCALE: NTS

DWG #: **ATR014**

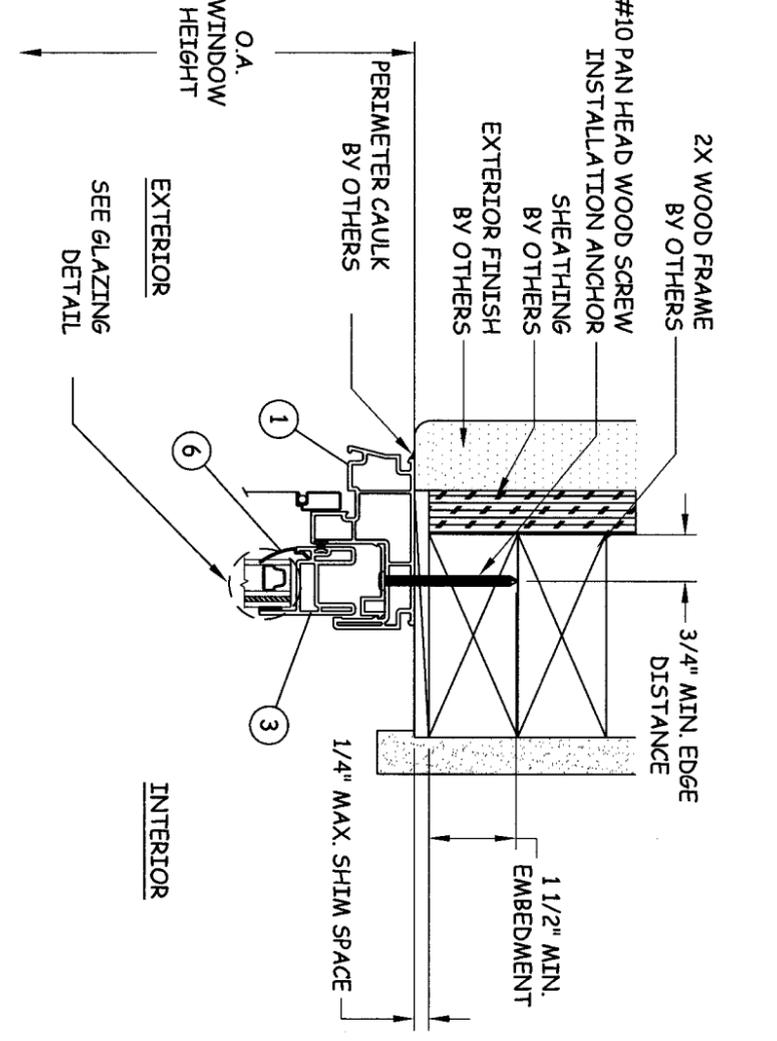
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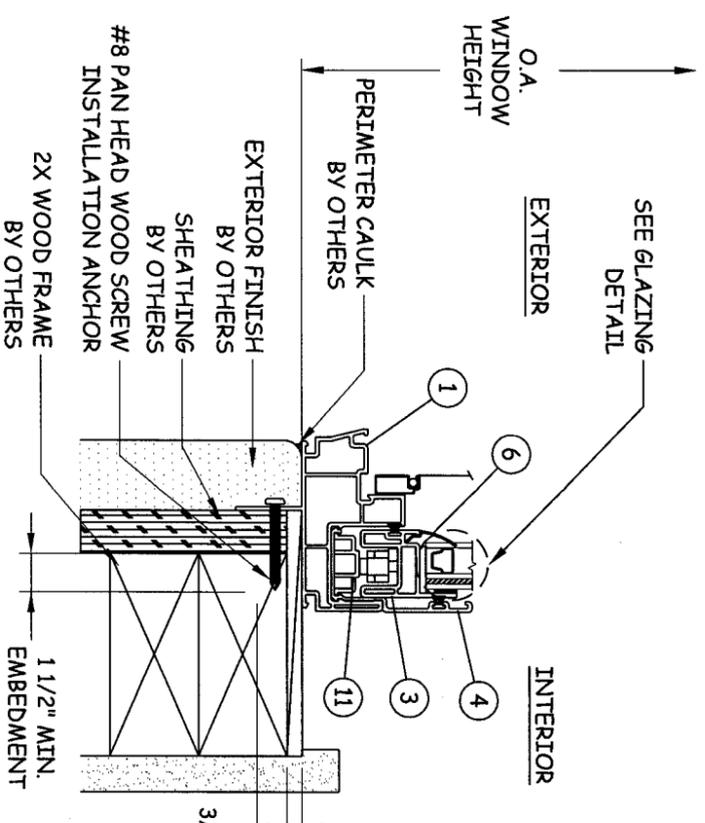
B
VERTICAL SECTION
2X WOOD FRAME - HEAD
FIN INSTALLATION



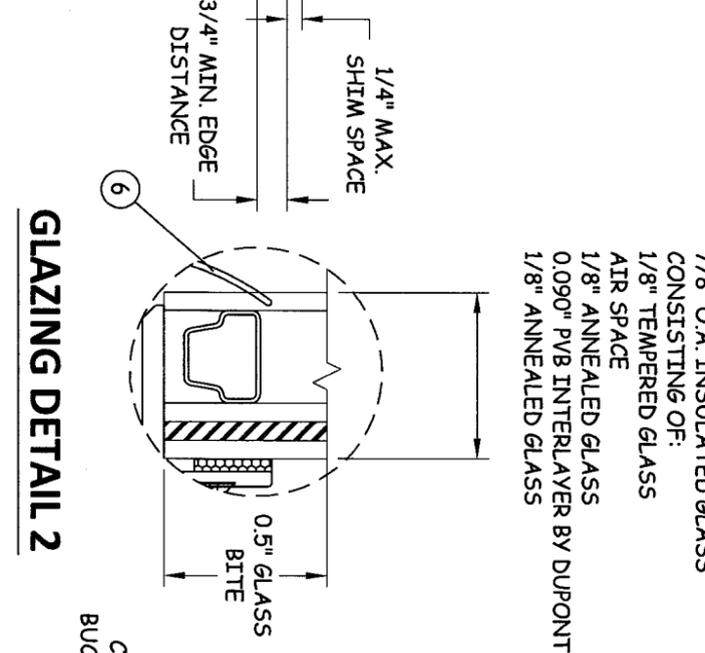
GLAZING DETAIL 1
7/8" O.A. INSULATED GLASS
CONSISTING OF:
1/8" TEMPERED GLASS
AIR SPACE
1/8" ANNEALED GLASS
0.090" PVB INTERLAYER BY DUPONT
1/8" ANNEALED GLASS



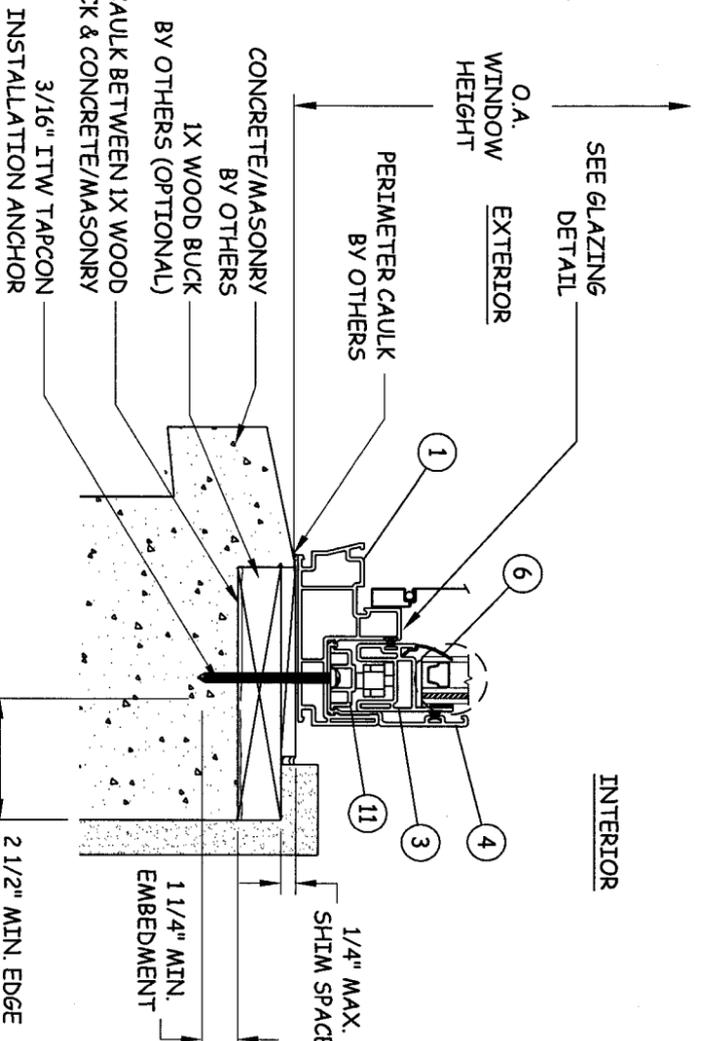
D
VERTICAL SECTION
CONCRETE/MASONRY - HEAD
FINLESS INSTALLATION



A
VERTICAL SECTION
2X WOOD FRAME - SILL
FIN INSTALLATION



GLAZING DETAIL 2
7/8" O.A. INSULATED GLASS
CONSISTING OF:
1/8" TEMPERED GLASS
AIR SPACE
1/8" ANNEALED GLASS
0.090" PVB INTERLAYER BY DUPONT
1/8" ANNEALED GLASS



C
VERTICAL SECTION
CONCRETE/MASONRY - SILL
FINLESS INSTALLATION

REVISIONS

NO.	DESCRIPTION	BY	DATE

TITLE:
30/230 HS (IMPACT)
VERTICAL SECTIONS
& GLAZING DETAILS

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ATRIRUM
COMPANIES, INC.

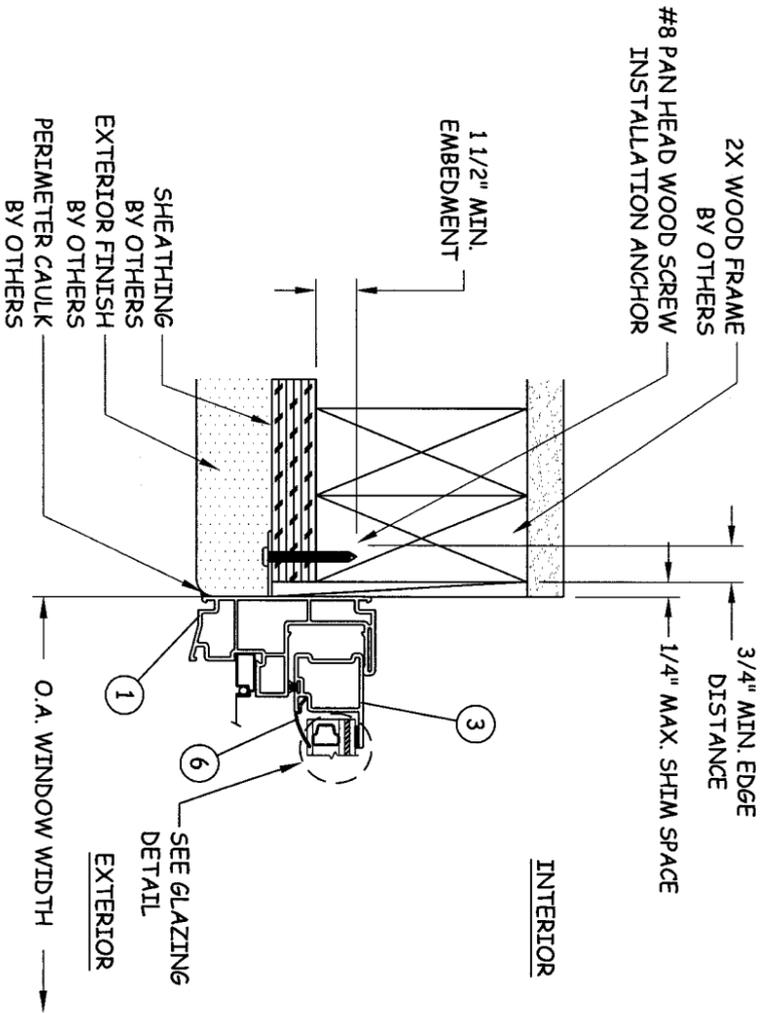
9001 AMBASSADOR ROW
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PH: (214) 637-2696 FX: (214) 424-6734

Kristina S. Daugherty
8-27-10

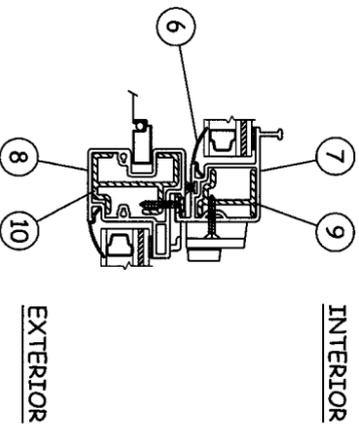
KRISTINA S. DAUGHERTY
-TEXAS REGISTERED ARCHITECT
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789

DATE: 3.31.10
DWN BY: MS
CHK BY: KSD
SCALE: NTS

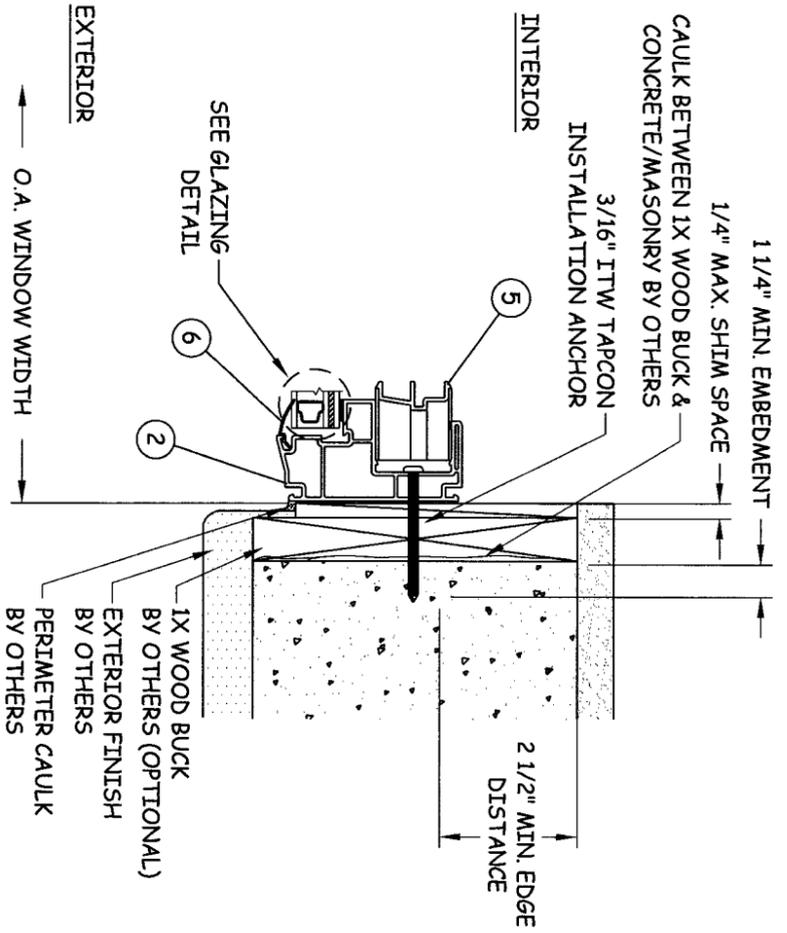
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SHEET: 3 OF 5



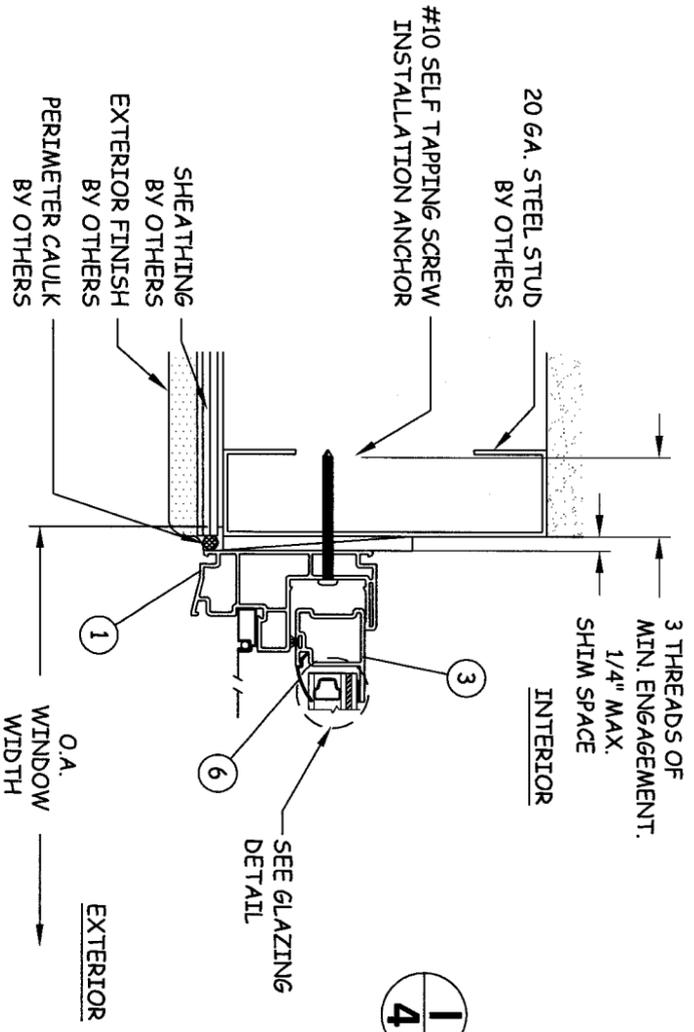
F HORIZONTAL SECTION
2X WOOD FRAME - JAMB
FIN INSTALLATION



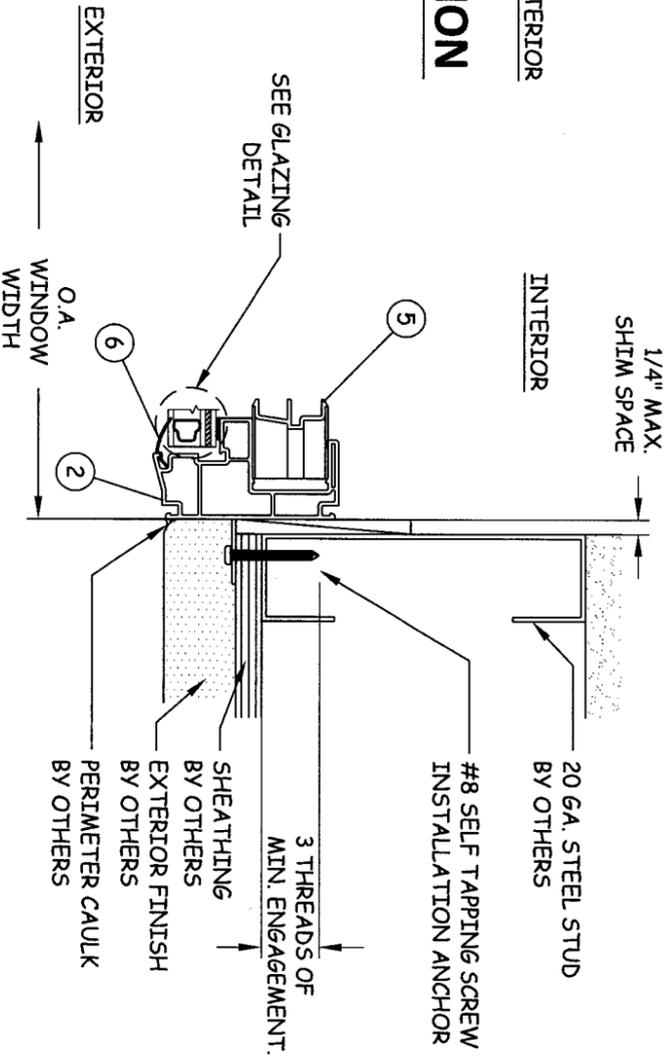
I HORIZONTAL SECTION
MEETING RAIL



H HORIZONTAL SECTION
CONCRETE/MASONRY - JAMB
FINLESS INSTALLATION



E HORIZONTAL SECTION
STEEL STUD
FINLESS INSTALLATION



G HORIZONTAL SECTION
STEEL STUD
FIN INSTALLATION

REVISIONS			
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TITLE:
30/230 HS (IMPACT)
HORIZONTAL SECTIONS

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[Signature]

8-27-10

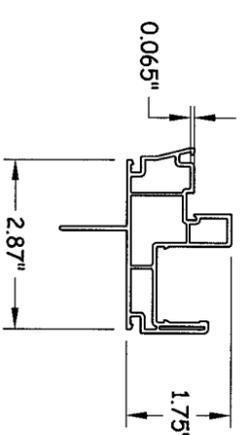
KRISTINA S. DAUGHERTY
TEXAS P.E. NO. 404590
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789

DATE: 3.31.10
DWN BY: MS
CHK BY: KSD
SCALE: NTS

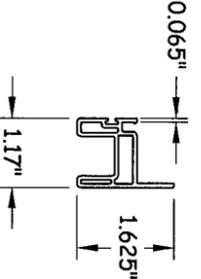
DWG #: **ATRO14**
SHEET: 4 OF 5

BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER
1		FRAME HEAD, SILL, AND JAMB (OPERABLE SIDE)	VINYL	MIKRON
2		FRAME JAMB (FIXED SIDE)	VINYL	MIKRON
3		PANEL STILES	VINYL	
4		SILL EXTENDER	VINYL	
5		BUTT STILE	VINYL	MIKRON
6		GLAZING BEAD	VINYL	DOW-TECH
7		OPERABLE PANEL INTERLOCK	VINYL	MIKRON
8		FIXED PANEL INTERLOCK	VINYL	MIKRON
9		OPERABLE LOCK RAIL REINFORCEMENT	ALUMINUM	EXTRUDERS
10		FIXED LOCK RAIL REINFORCEMENT	ALUMINUM	EXTRUDERS
11		SILL OPERATING PANEL TRACK	VINYL	MIKRON

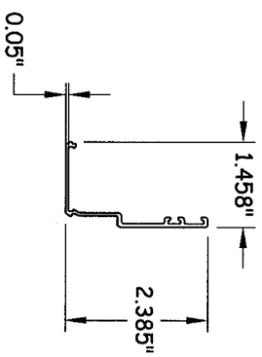
1 & 2
FRAME HEAD, SILL & JAMB
 VINYL
 TYPICAL WALL THICKNESS: .065"



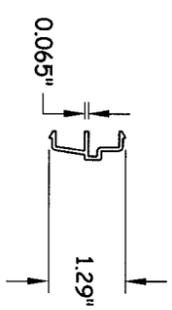
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PANEL STILES
 VINYL
 TYPICAL WALL THICKNESS: 0.065"



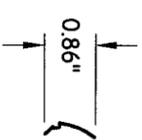
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SILL EXTENDER
 VINYL
 TYPICAL WALL THICKNESS: 0.05"



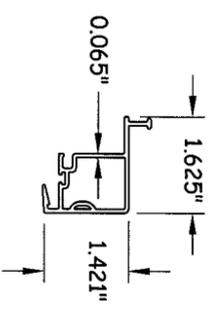
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BUTT STILE
 VINYL
 TYPICAL WALL THICKNESS: 0.065"



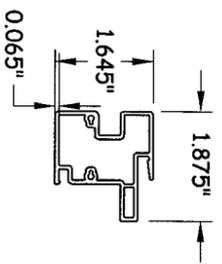
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GLAZING BEAD
 VINYL



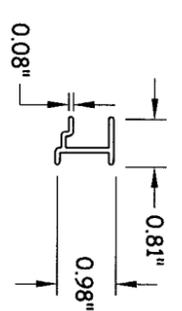
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OPERABLE PANEL INTERLOCK
 VINYL
 TYPICAL WALL THICKNESS: 0.065"



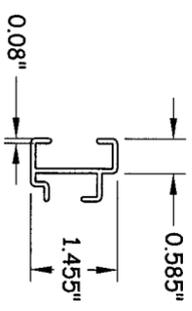
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FIXED PANEL INTERLOCK
 VINYL
 TYPICAL WALL THICKNESS: 0.065"



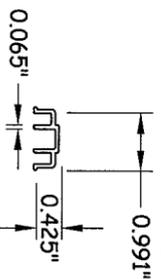
9
OPERABLE LOCK RAIL REINFORCEMENT
 ALUMINUM 6063 T-5
 TYPICAL WALL THICKNESS: 0.08"



10
FIXED LOCK RAIL REINFORCEMENT
 ALUMINUM 6063 T-5
 TYPICAL WALL THICKNESS: 0.08"



11
SILL OPERATING PANEL TRACK
 VINYL
 TYPICAL WALL THICKNESS: 0.065"



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TITLE:
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 BILL OF MATERIALS

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REVISIONS			
NO.	DESCRIPTION	BY	DATE

[Signature]
 8-27-10
 KRISTINA S. DALLSHERRY
 TEXAS P. E. NO. 104390
 127 W. FAIRBANKS AVE., STE. 438
 WINTER PARK, FL 32789

DATE: 3.31.10
 DWN BY: MS
 CHK BY: KSD
 SCALE: NTS

DWG #: **ATRO14**
 SHEET: 5 OF 5