ATRIUM COMPANIES, INC.

SERIES 35/235
PICTURE WINDOW
(IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS 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 OF THE MAXIMUM SIZE LISTED.
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. FOR NAIL FIN: WOOD BUCK:USE #8 WOOD SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. FOR NAIL FIN: STEEL STUD:USE #8 TEK SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
7. FOR THRU FRAME: WOOD BUCK:USE #10 WOOD SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
9. FOR THRU FRAME: CONCRETE/MASONRY: FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
10. FOR THRU FRAME: STEEL STUD: USE #10 TEK SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
11. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
12. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
13. 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.
14. 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.
15. 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 3000 PSI.
    C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
    D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
    E. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 20 GA. WALL THICKNESS.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2006 IRC/IBC AND TEXAS REVISIONS AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
    - AAMA/WDMA/CSA101/I.S.2/A440-05
    - AAMA/WDMA/CSA101/I.S.2/A440-08
    - ASTM E 1886-05
    - ASTM E 1996-08
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY 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 FOR REVIEW BY THE AUTHORITY HAVING JURISDICTION.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
6. WINDOW FRAME MATERIAL: PVC
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 4 FOR GLAZING DETAILS.
8. PRODUCT MAY BE MULLED USING AN APPROVED MULLION.

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2	-	ELEVATION & ANCHOR LAYOUTS
3	-	VERTICAL SECTIONS
4	-	HORIZONTAL SECTIONS & GLAZING DETAILS

OVERALL SIZE		CONFIGURATION	DESIGN PRESSURE	MISSILE IMPACT RATING	GLAZING
WIDTH	HEIGHT				
72"	77"	O	+/- 55 PSF	LMI	GLAZING DETAIL 1
44"	72"	O	+/- 55 PSF	LMI	GLAZING DETAIL 2

ATRIUM COMPANIES, INC.
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PH: (214) 637-2696 FX: (214) 424-6734

TITLE: SERIES 35/235 PICTURE WINDOW GENERAL AND INSTALLATION NOTES

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: 954.399.8478 FX: 954.744.4738

REVISIONS

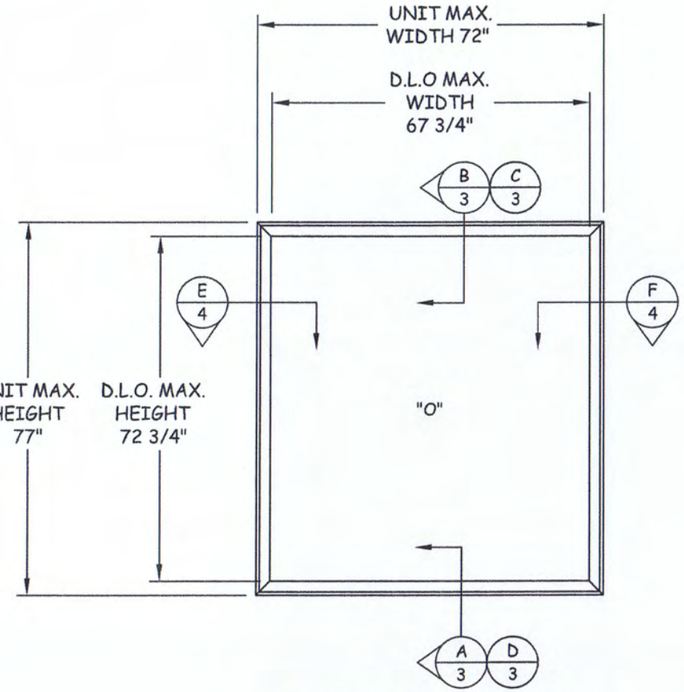
NO.	DESCRIPTION	BY	DATE

STATE OF TEXAS
ALEXIS SPYROU
102057
LICENSED
PROFESSIONAL ENGINEER
8-7-14

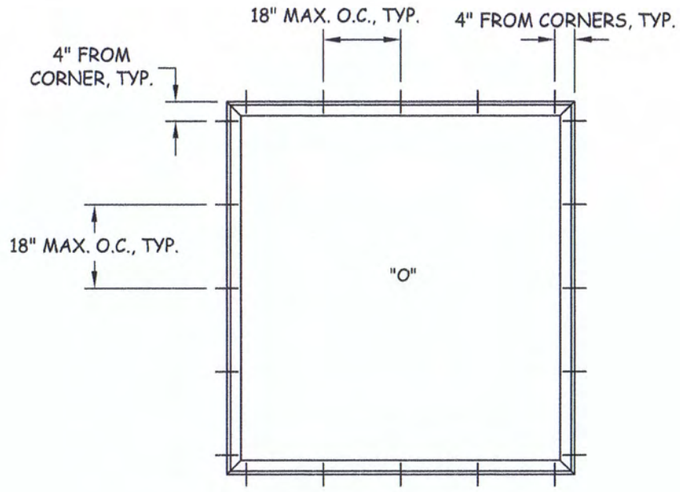
DATE: 07.03.14
DWN BY: SM
CHK BY: HFN
SCALE: NTS

DWG #: ATR086

SHEET: 1 OF 4

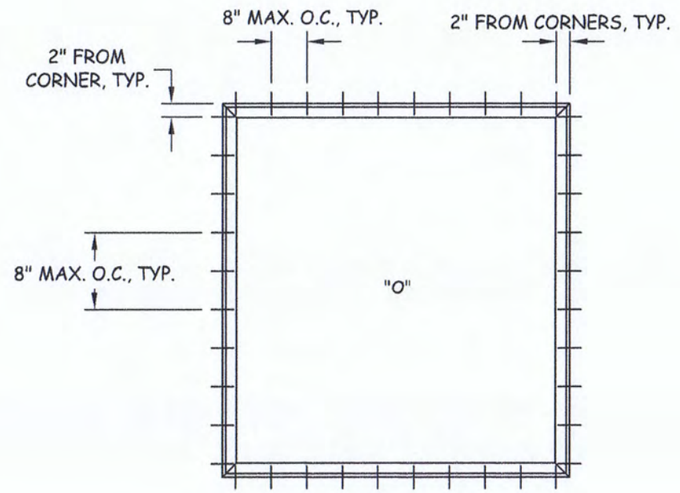


TYPICAL ELEVATION



ANCHOR LAYOUT

THROUGH FRAME



ANCHOR LAYOUT

NAILING FIN

ATRIUM
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ELEVATION AND ANCHOR LAYOUTS

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REVISIONS

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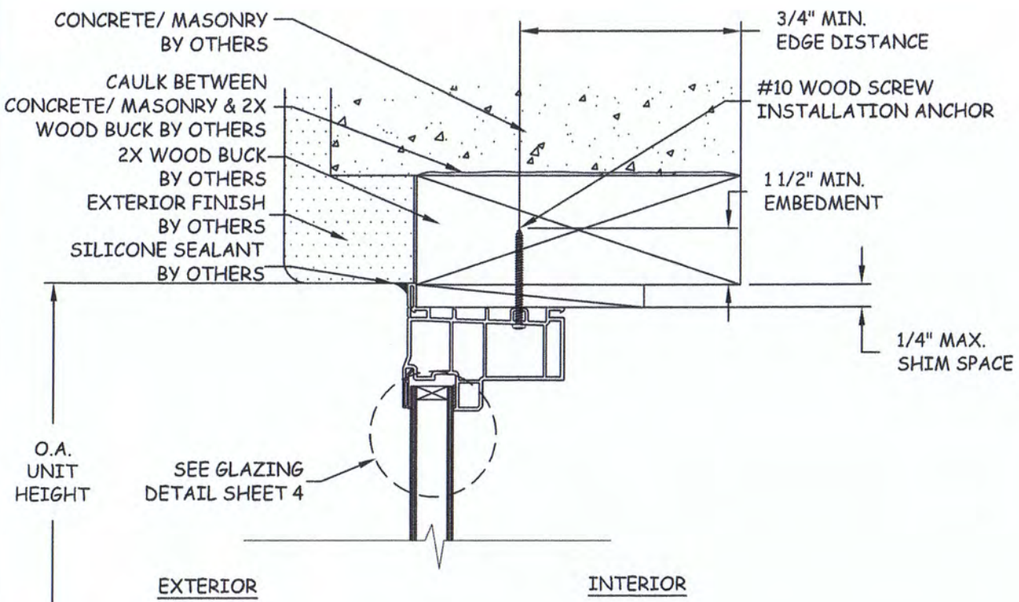
STATE OF TEXAS
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER
ALEXIS SPYROU, PE#
TEXAS P.E. NO. 102957
398 EAST DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

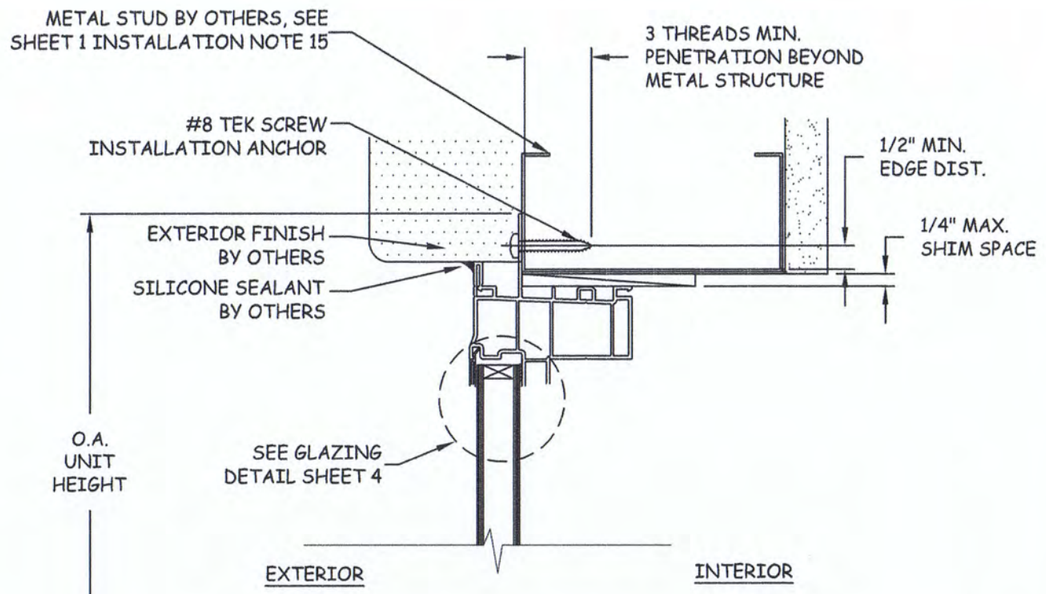
DATE:	DWN BY:	CHK BY:	SCALE:
07.03.14	SM	HFN	NTS

DWG #: ATR086

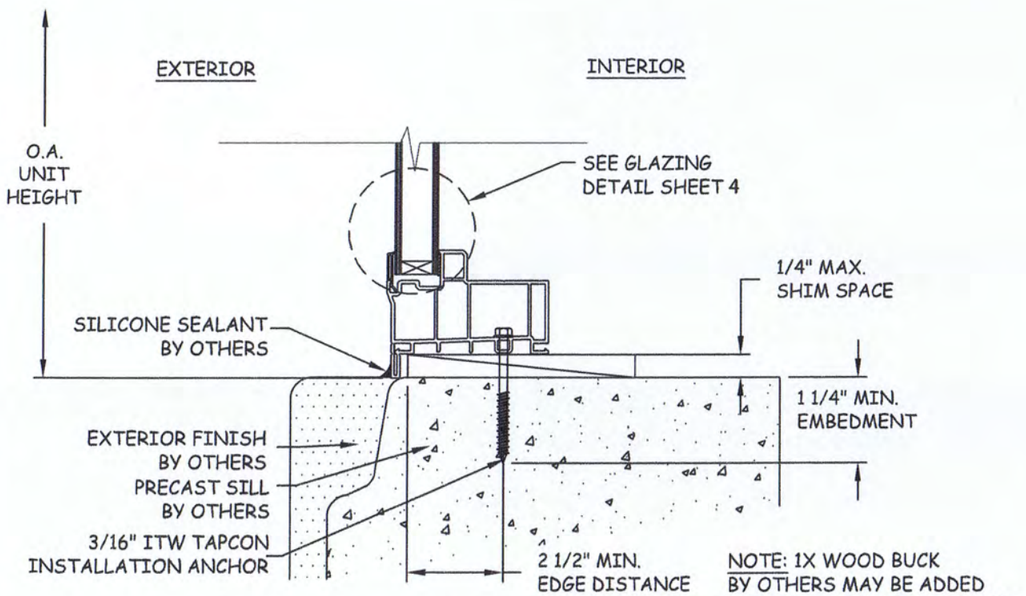
SHEET: 2 OF 4



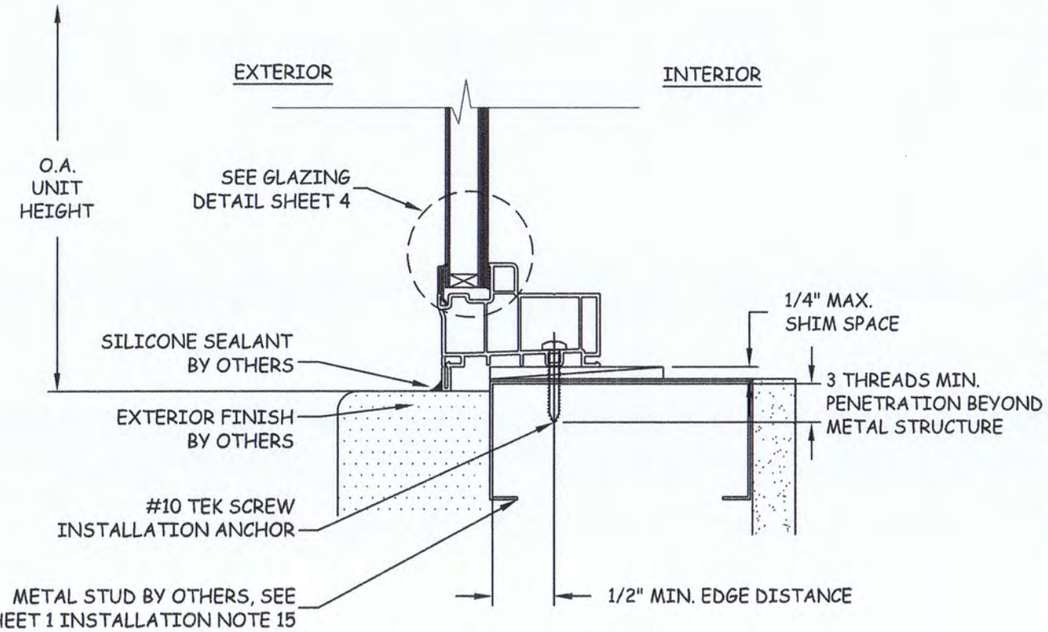
B/3 VERTICAL SECTION
HEAD - 2X WOOD BUCK
THROUGH FRAME



C/3 VERTICAL SECTION
HEAD - METAL STUD
NAILING FIN



A/3 VERTICAL SECTION
SILL - CONCRETE/MASONRY
THROUGH FRAME



D/3 VERTICAL SECTION
SILL - METAL STUD
THROUGH FRAME

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TITLE: SERIES 35/235 PICTURE WINDOW
VERTICAL SECTIONS

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REVISIONS

NO.	DESCRIPTION	BY	DATE

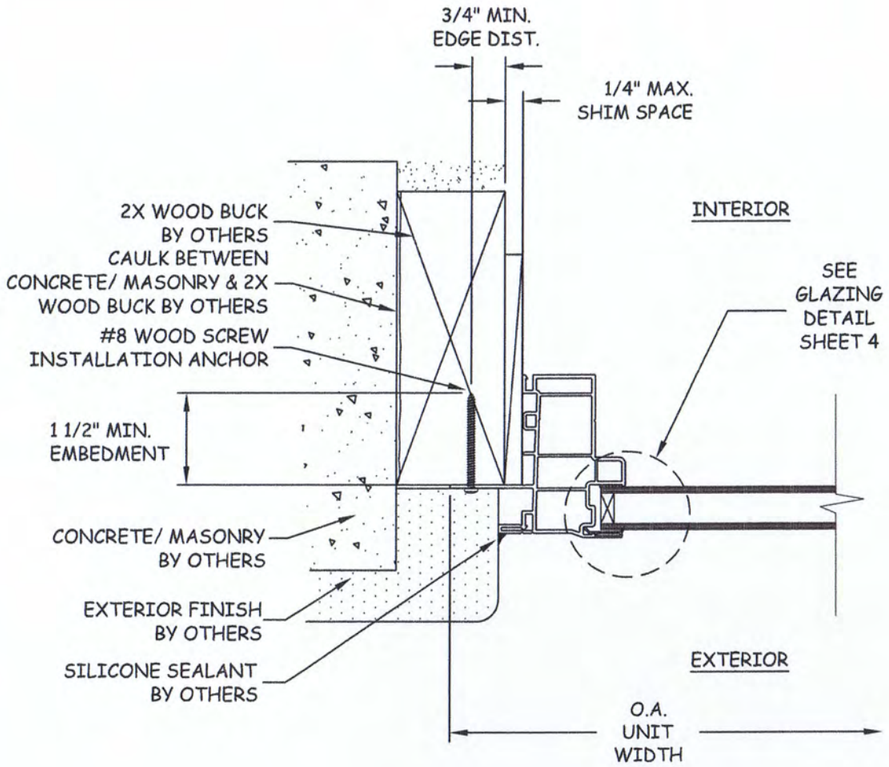
STATE OF FLORIDA
ALEXIS SPYROU
No. 102957
LICENSED
PROFESSIONAL ENGINEER
B-774

ALEXIS SPYROU, P.E.
TEXAS P.E. LIC. NO. 102957
398 EAST DANIA BEACH BLVD.
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

DATE:	DWN BY:	CHK BY:	SCALE:
07.03.14	SM	HFN	NTS

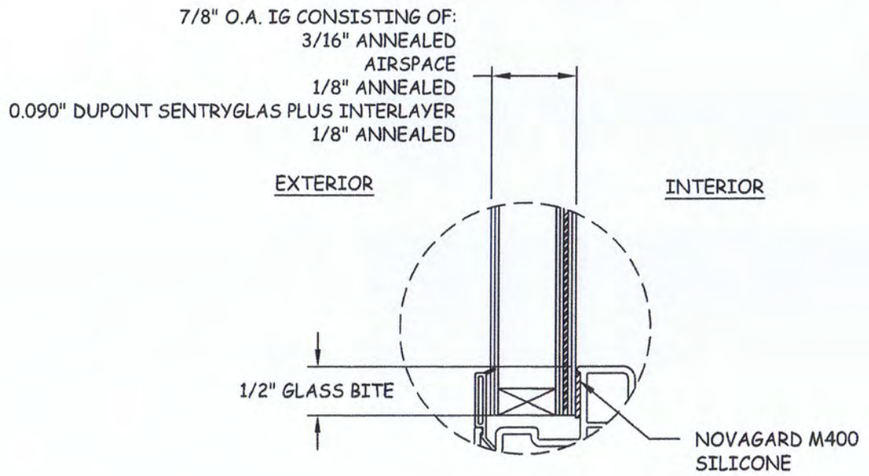
DWG #: ATR086

SHEET: 3 OF 4

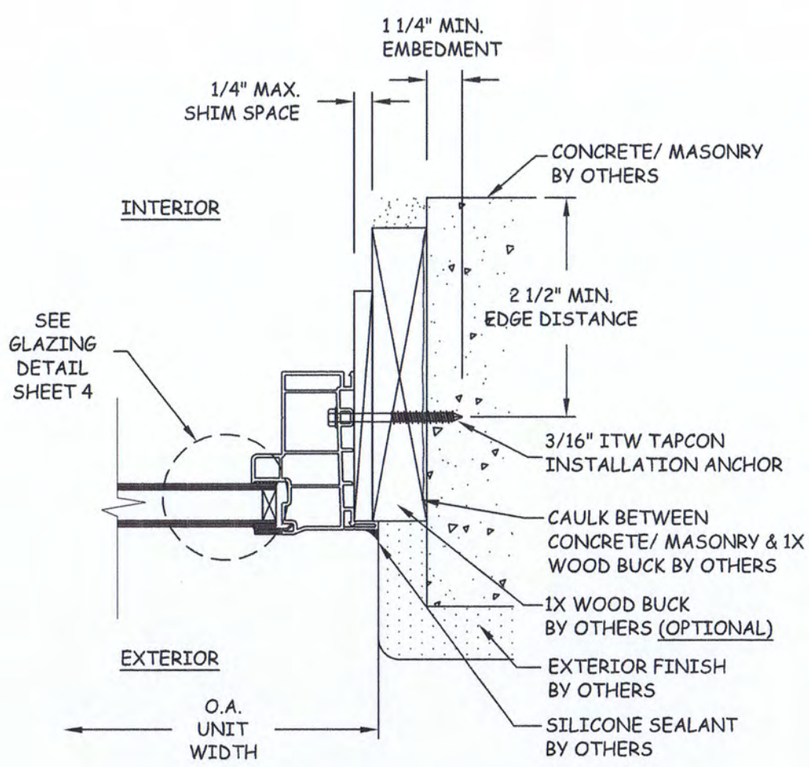


D/4 HORIZONTAL SECTION

JAMB - 2X WOOD BUCK
NAILING FIN

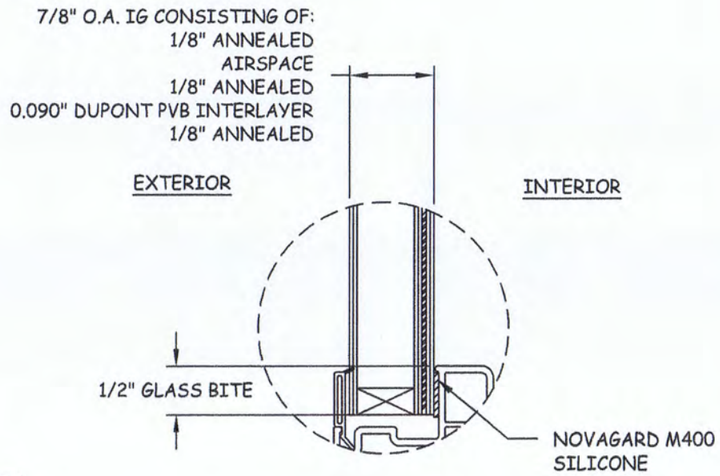


GLAZING DETAIL 1



E/4 HORIZONTAL SECTION

JAMB - CONCRETE/MASONRY
THROUGH FRAME



GLAZING DETAIL 2

NOTE:
GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E 1300 REQUIREMENT.

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HORIZONTAL SECTIONS & GLAZING DETAILS

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TEXAS P. E. NO. 102957
398 EAST DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

8.774

DATE: 07.03.14
DWN BY: SM
CHK BY: HFN
SCALE: NTS

DWG #: ATR086

SHEET: 4 OF 4