



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.buildingcodeonline.com

Kawneer Company, Inc.
555 Gutheridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Trifab 450" Aluminum Storefront System with Entrance Door-N.I.

APPROVAL DOCUMENT: Drawing No. 1431, titled "Trifab 450 Non- Impact Store Front & Entrance Way System", sheets 1 through 11 of 11, prepared by W.W Schaefer Engineering & Consulting, P.A., dated 09/06/05 signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**

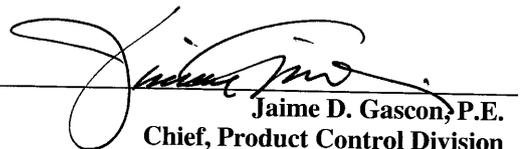


J. Gascon
7/13/06

NOA No 06-0519.02
Expiration Date: April 20, 2011
Approval Date: July 13, 2006
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

- A. DRAWINGS**
1. Manufacturer's die drawings and sections.
 2. Drawing No. 1431, titled "Trifab 450 Non-Impact Store Front & Entrance Way System", sheets 1 through 11 of 11, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 09/06/05, signed and sealed by Warren W. Schaefer, P.E.
- B. TESTS**
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
Along with installation diagram of an aluminum storefront system, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL-0049-1117-04, dated 12/03/04-03/04/05, signed and sealed by Vinu J. Abraham, P.E.
- C. CALCULATIONS**
1. Revised Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A. dated 02/07/06, signed and sealed by Warren W. Schaefer, P.E.
Complies with ASTM E1300-02
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. None
- F. STATEMENTS**
1. Statement letter of code compliance and no financial interest, dated 09/07/05, signed and sealed by Warren W. Schaefer, P.E.
- G. OTHER**
1. Letter from the consultant, dated 03/24/06, stating that the product is in compliance with the Florida Building Code (FBC).



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-0519.02
Expiration Date: April 20, 2011
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GENERAL NOTES

1. THESE STORE FRONT SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLES.
2. BUCKING &/OR SUPPORTING SUBSTRATES MUST BE PROPERLY DESIGNED, CONSTRUCTED & INSTALLED TO SUPPORT LOADS TRANSFERRED FROM THESE SYSTEMS.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, FORCED ENTRY & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE 2004 FLORIDA BUILDING CODE PROTOCOLS TAS-202 FOR NON-IMPACT WINDOWS.
5. THESE STORE FRONT SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THESE STORE FRONT SYSTEMS ARE NON-IMPACT RATED AND MUST BE SHUTTERED WITH A FLORIDA CODE APPROVED SHUTTER WHERE REQUIRED BY CODE.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
8. ALL FRAME ANCHORS SECURING WINDOW/DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
9. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.
10. ALL SUBSTRATE SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS.
 - a) ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
 - b) ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.55 DENSITY.
 - c) ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. Fy = 50 ksi.
 - d) ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 1/8" THK. & Fy = 36 ksi.
11. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BUILDING CODE SECTION 2003.8.4.

FRAME ANCHOR REQUIREMENTS TABLE

FRAME & SILL ANCHORS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 12 SMS SCREW	1 3/8"	3/4"
MIN. 16 GA. 33 KSI METAL STUD	1/4-20 SELF TAPPING SCREW	FULL	1/2"
MIN. 0.125" THICK 36 KSI STRUCTURAL STEEL	1/4-20 SELF TAPPING SCREW OR 1/4" THRU-BOLT	FULL	1/2"
CMU OR CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).

CORNER & FRAME END CONSTRUCTION:

FRAME HEAD CORNER: HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 4 NO. 12 X 1 1/8" PPHFT TYPE AB FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 2 NO. 12 X 1 1/8" PPHFT TYPE AB FASTENERS THROUGH THE SIDE MEMBER INTO THE SILL MEMBER SCREW SPLINES & SEALED WITH SILICONE.

HORIZONTAL FRAME MULLION END: MULLION IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 2 NO. 12 X 1 1/8" PPHFT TYPE AB FASTENERS THROUGH THE SIDE MEMBER INTO THE MULLION MEMBER SCREW SPLINES & SEALED WITH SILICONE.

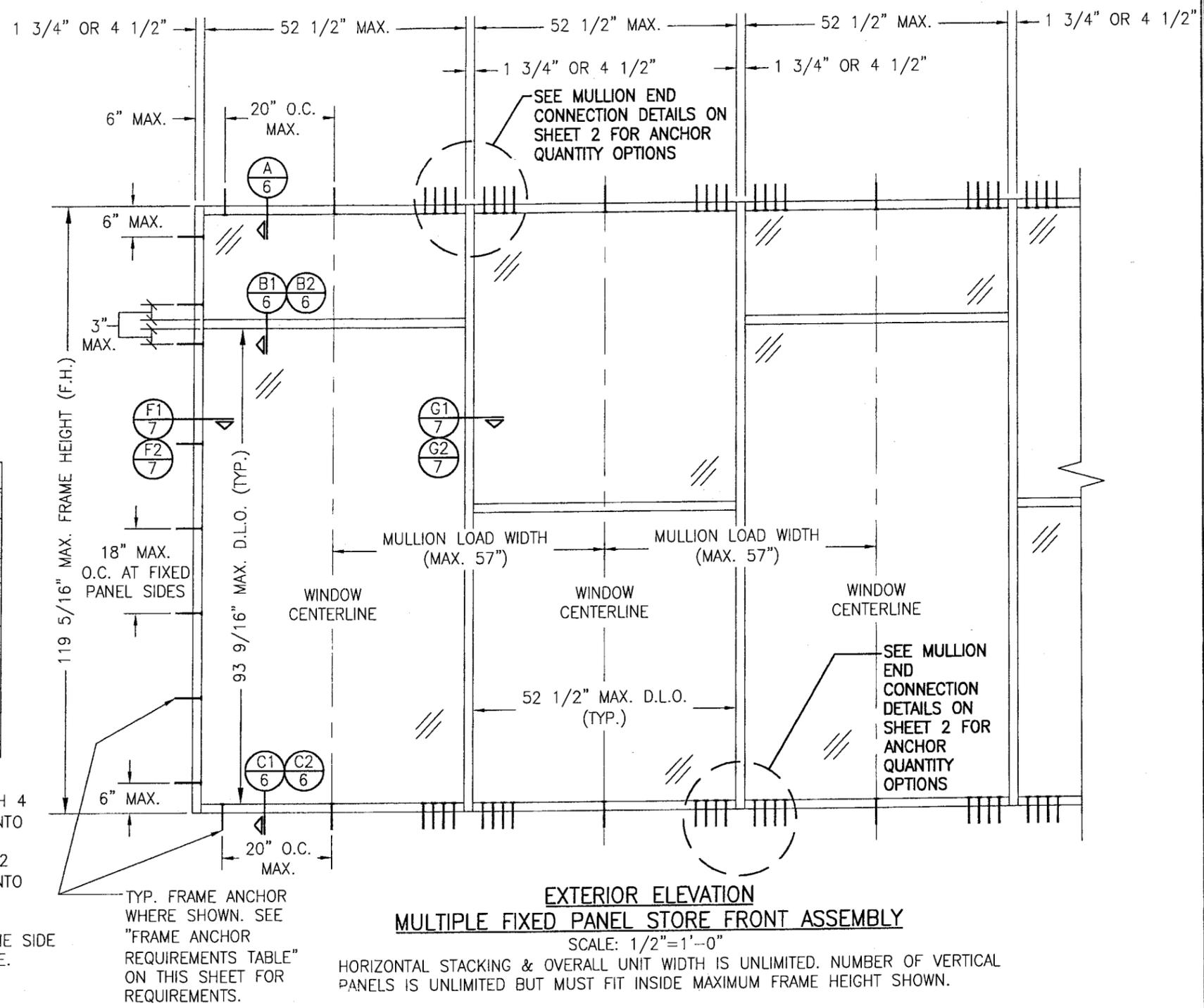
DOOR TRANSOM MULLION END: SEE SECTIONS E1/6, E2/7 & E3/7.

DOOR HEAD FRAME CORNERS: SEE SECTIONS L1/8, L2/8 & L3/8.

DOOR SILL CORNER: THRESHOLD WAS SQUARE CUT, BUTTED TO THE SIDE, SECURED TO THE SIDE MEMBER USING A PIVOT ASSEMBLY OR STEEL CLIP & SEALED WITH SILICONE.

DOOR PANEL TOP RAIL CORNERS: AT EACH TOP CORNER, THE TOP RAIL END IS SQUARE CUT, BUTTED, AND ATTACHED TO THE VERTICAL STILE BY MEANS OF A 1.094" LONG WELD CLIP (KAWNEER PART #200-450, #200-452, OR #200-453). EACH WELD CLIP IS ATTACHED TO THE VERTICAL STILE USING, TWO(2) 1/4-20 X 3/4" PHMS THAT PASSED THROUGH THE DOOR STILE AND ARE THREADED INTO 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED USING ONE(1), 1/2" DIAMETER PLUG WELD AND ONE(1), 1/4" X 1 1/8" FILLET WELD THAT ARE APPLIED TO BOTH WEBS OF THE TOP RAIL.

DOOR PANEL BOTTOM RAIL CORNERS: AT EACH BOTTOM CORNER, THE BOTTOM RAIL END IS SQUARE CUT, BUTTED, AND ATTACHED TO THE VERTICAL STILE BY MEANS OF A 1.094" LONG WELD CLIP (KAWNEER PART #200-451 OR #200-459). EACH WELD CLIP IS ATTACHED TO THE VERTICAL STILE USING, TWO(2) 1/4-20 X 3/4" PHMS THAT PASSED THROUGH THE DOOR STILE AND ARE THREADED INTO 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED USING ONE(1), 1/2" DIAMETER PLUG WELD AND ONE(1), 1/4" X 1 1/8" FILLET WELD THAT ARE APPLIED TO BOTH WEBS OF THE TOP RAIL.



**EXTERIOR ELEVATION
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY**

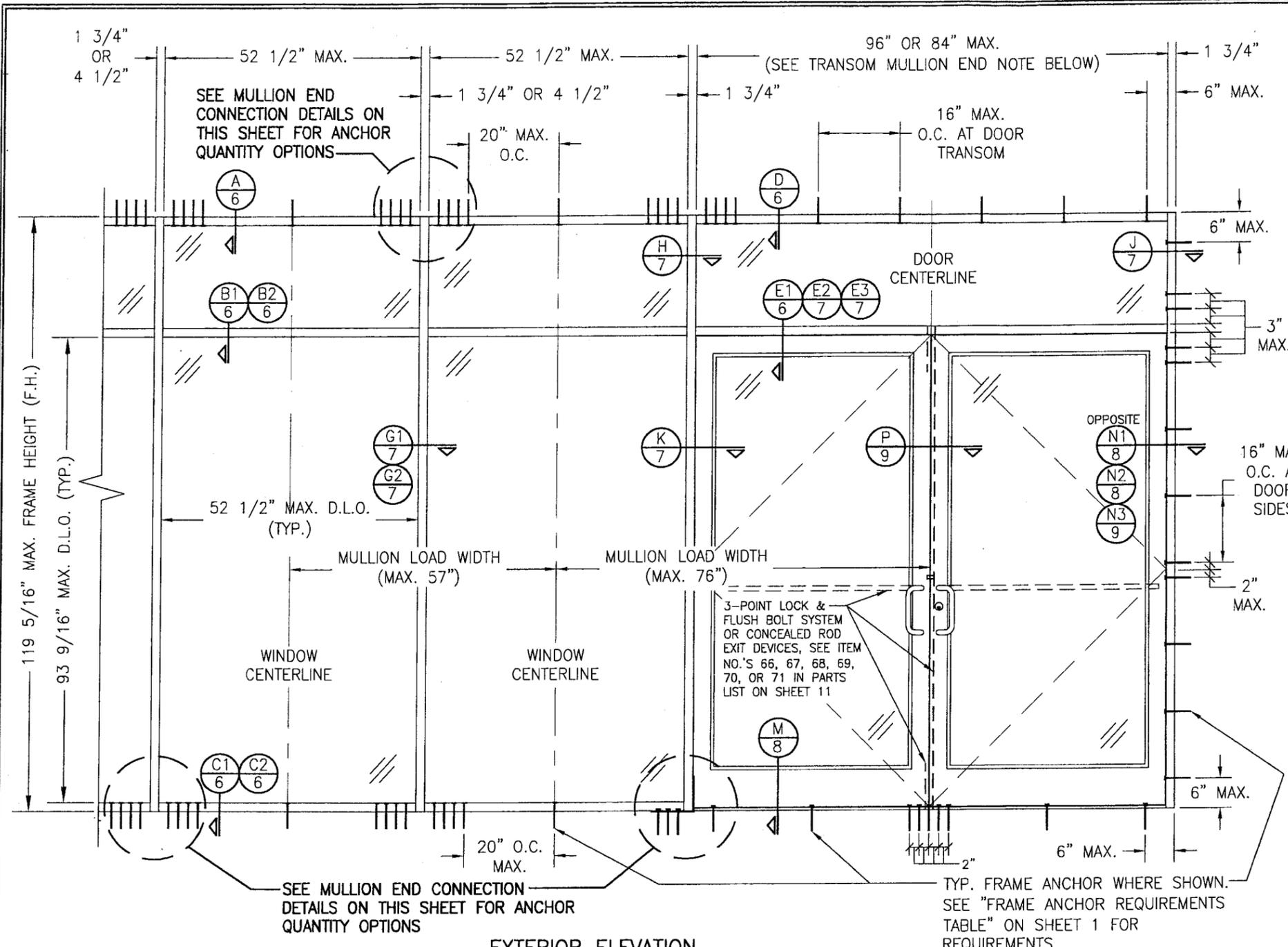
SCALE: 1/2"=1'-0"

HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED. NUMBER OF VERTICAL PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

**ALLOWABLE DESIGN PRESSURE
SEE LOAD TABLES ON SHEET 5**

Approved as complying with the Florida Building Code
Date 07/13/06
NOA# 06-0519.02
Miami-Dade Product Control
Division
By [Signature]

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 09/06/05
DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER KAWNEER COMPANY, INC.
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555
CERTIFICATION MAY 16 2006	WARRYN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1431	REV.
SHEET NO. 1	OF 11



**EXTERIOR ELEVATION
STORE FRONT ASSEMBLY WITH DOORS & TRANSOM**

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

- NOTE: 1) FIXED PANELS MAY BE PLACED ON ONE OR BOTH SIDES OF DOORS.
 2) DOORS MAY BE SINGLE OR DOUBLE DOORS.
 3) SEE DOOR ELEVATIONS FOR DOOR SECTIONS & DETAIL.

ALLOWABLE DESIGN PRESSURE
SEE LOAD TABLES ON SHEET 5

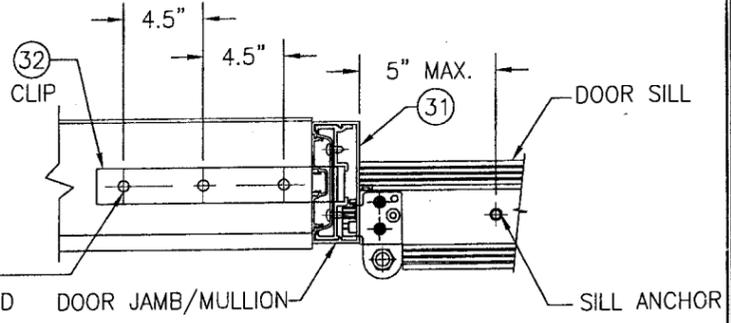
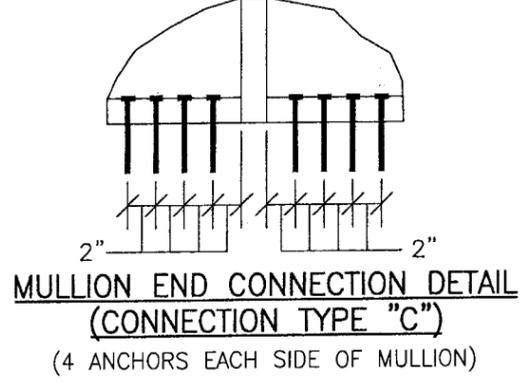
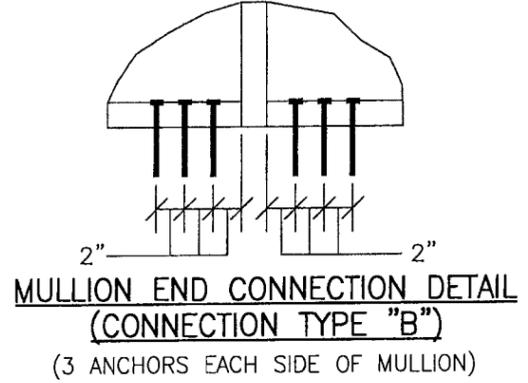
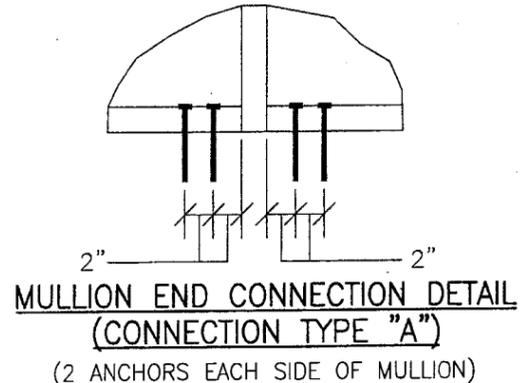
TRANSOM MULLION NOTE:
 WHEN TRANSOM MULLION PART #5 OR 6 IS USED, MULLION SPAN IS LIMITED TO MAX. 84". WHEN TRANSOM MULLION PART #7 OR 8 IS USED, MULLION SPAN MAY BE UP TO MAX. 96". SEE PARTS DRAWINGS FOR MULLION PARTS.

(* THE DOORS IN THIS STORE FRONT SYSTEM ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF THE CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.

TYP. FRAME ANCHOR WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.
 (NOTE: DOOR SILL ANCHORS INCLUDE 9 TOTAL AT DOUBLE DOORS & 3 TOTAL AT SINGLE DOORS AS SHOWN.)

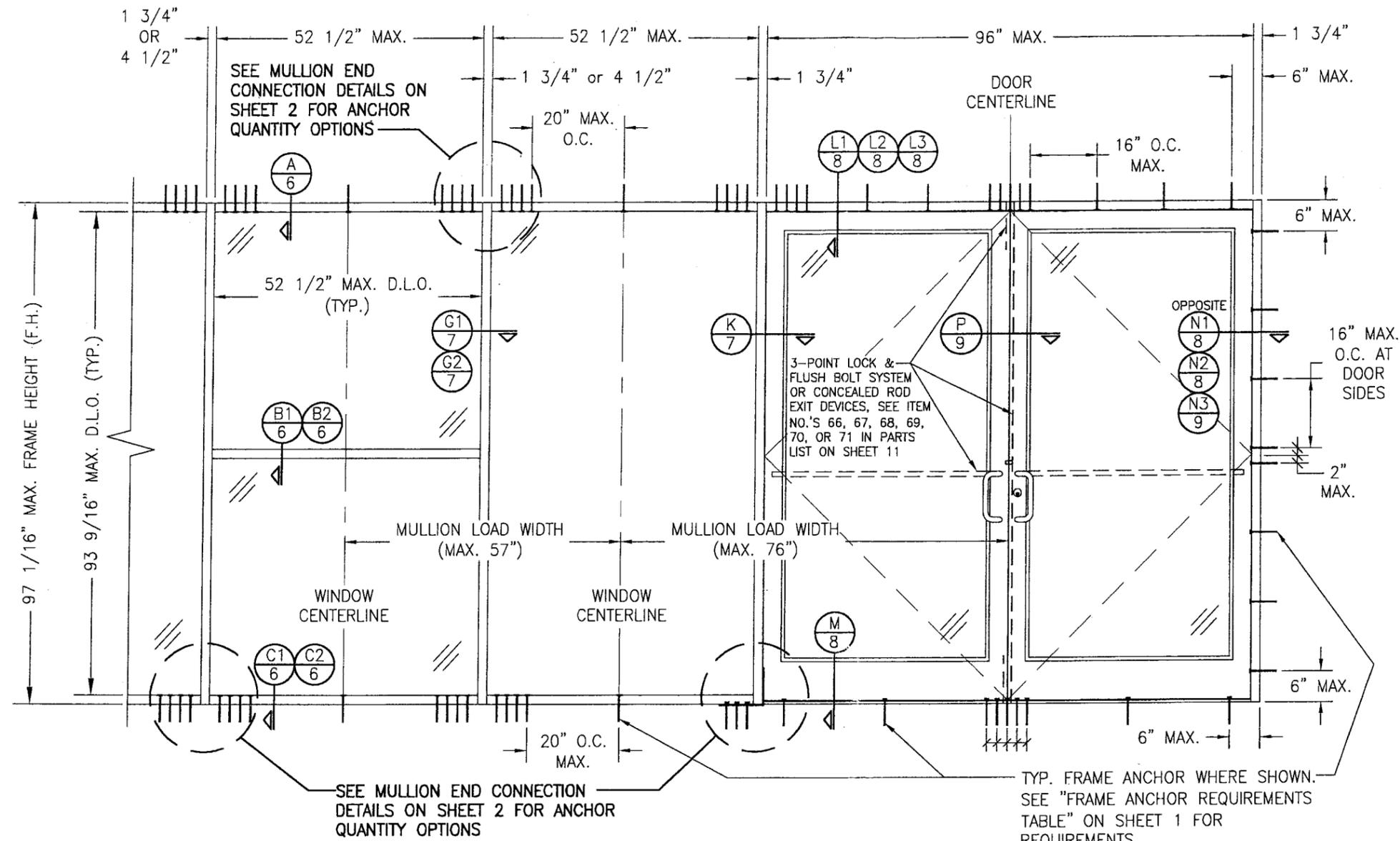
THREE(3) 3/8" WEDGE/SLEEVE ANCHORS WITH MIN. 2 1/2" EMBED AND 2 1/2" EDGE DISTANCE (GALVANIZED STEEL OR S.S. RAMSET/RED HEAD DYNABOLT, HILTI KWIK-BOLT II OR POWERS RAWL POWER BOLT)

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 Miami Dade Product Control Division
 By *[Signature]*



NOTE: THIS MULLION END CONNECTION IS EQUIVALENT IN PRESSURE CAPACITY TO CONNECTION TYPE "C".

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PLOT: 1=24	DATE: 09/06/05
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555
CERTIFICATION MAY 16 2006	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1431	REV.
SHEET NO. 2	OF 11



**EXTERIOR ELEVATION
STORE FRONT ASSEMBLY WITH DOORS & NO TRANSOM**

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

- NOTE: 1) FIXED PANELS MAY BE PLACED ON ONE OR BOTH SIDES OF DOORS.
 2) DOORS MAY BE SINGLE OR DOUBLE DOORS.
 3) SEE DOOR ELEVATIONS FOR DOOR SECTIONS & DETAIL.

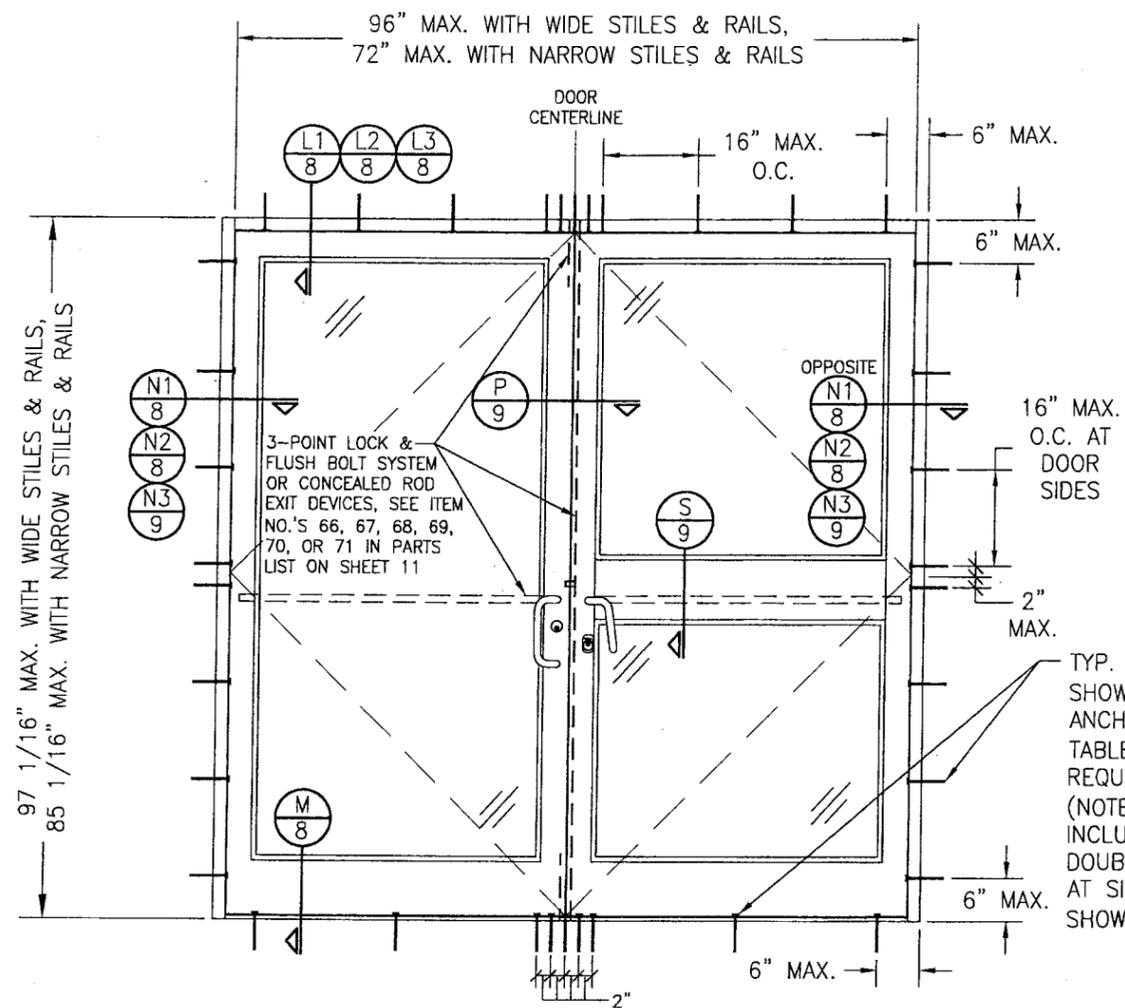
ALLOWABLE DESIGN PRESSURE
SEE LOAD TABLES ON SHEET 5

(*) THE DOORS IN THIS STORE FRONT SYSTEM ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF THE CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.

TYP. FRAME ANCHOR WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.
 (NOTE: DOOR SILL ANCHORS INCLUDE 9 TOTAL AT DOUBLE DOORS & 3 TOTAL AT SINGLE DOORS AS SHOWN.)

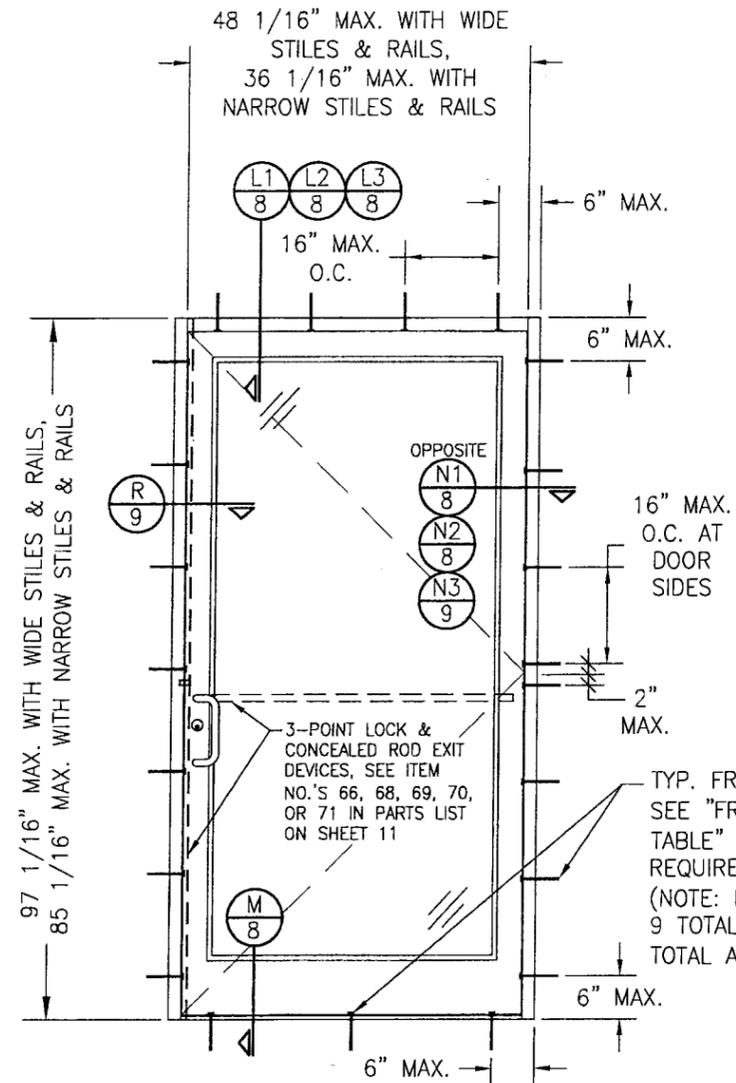
Approved as complying with the Florida Building Code
 Date 07/13/06
 NOA# 01-0519-02
 Miami Dade Product Control Division
 By *[Signature]*

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 09/06/05	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER KAWNEER COMPANY, INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION MAY 15 2006 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1431		REV.	
SHEET NO. 3 OF 11			



EXTERIOR ELEVATION
DOUBLE DOOR ASSEMBLY
SCALE: 1/2"=1'-0"

ALLOWABLE PRESSURE = +/-65 PSF



EXTERIOR ELEVATION
SINGLE DOOR ASSEMBLY
SCALE: 1/2"=1'-0"

ALLOWABLE PRESSURE = +/-65 PSF

(* THE DOORS IN THIS STORE FRONT SYSTEM ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF THE CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.

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CERTIFICATION MAY 16 2006 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1431	REV.
SHEET NO. 4	OF 11

VERTICAL MULLION LOAD TABLE (MULLION "A")				
UNREINFORCED FIXED PANEL VERTICAL MULLION				
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE		
		CONNECTION "A" (PSF)	CONNECTION "B" (PSF)	CONNECTION "C" (PSF)
86	57	42.1	47.6	47.6
	51	47.0	53.2	53.2
	45	53.3	60.3	60.3
	39	61.5	65.0	65.0
	33	65.0	65.0	65.0
80	57	45.2	59.1	59.1
	51	50.5	65.0	65.0
	45	57.3	65.0	65.0
74	57	48.9	65.0	65.0
	51	54.6	65.0	65.0
	45	61.9	65.0	65.0
68	57	53.2	65.0	65.0
	51	59.5	65.0	65.0
	45	65.0	65.0	65.0
62	57	58.3	65.0	65.0
	51	65.0	65.0	65.0
56	57	64.6	65.0	65.0

VERTICAL MULLION LOAD TABLE (MULLION "B")				
FIXED PANEL VERTICAL MULLION REINFORCED WITH SINGLE CHANNEL				
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE		
		CONNECTION "A" (PSF)	CONNECTION "B" (PSF)	CONNECTION "C" (PSF)
120	57	30.1	61.9	65.0
	51	33.7	65.0	65.0
	45	38.2	65.0	65.0
	39	44.1	65.0	65.0
	33	52.1	65.0	65.0
108	27	63.6	65.0	65.0
	21	65.0	65.0	65.0
	57	33.5	65.0	65.0
86	51	37.4	65.0	65.0
	45	42.4	65.0	65.0
	39	49.0	65.0	65.0
	33	57.9	65.0	65.0
	27	65.0	65.0	65.0
98	57	36.9	65.0	65.0
	51	41.3	65.0	65.0
	45	46.8	65.0	65.0
	39	54.0	65.0	65.0
	33	63.8	65.0	65.0
82	27	65.0	65.0	65.0
	57	42.1	65.0	65.0
	51	47.0	65.0	65.0
	45	53.3	65.0	65.0
	39	61.5	65.0	65.0
80	33	65.0	65.0	65.0
	57	45.2	65.0	65.0
	51	50.5	65.0	65.0
	45	57.3	65.0	65.0
	39	65.0	65.0	65.0
74	57	48.9	65.0	65.0
	51	54.6	65.0	65.0
	45	61.9	65.0	65.0
	39	65.0	65.0	65.0
	57	53.2	65.0	65.0
68	51	59.5	65.0	65.0
	45	61.9	65.0	65.0
	57	58.3	65.0	65.0
62	51	65.0	65.0	65.0
	57	64.6	65.0	65.0

VERTICAL MULLION LOAD TABLE (MULLION "C")				
DOOR JAMB VERTICAL MULLION REINFORCED WITH SINGLE CHANNEL				
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE		
		CONNECTION "A" (PSF)	CONNECTION "B" (PSF)	CONNECTION "C" (PSF)
98	76	27.7	56.8	59.9
	72	29.2	60.0	63.2
	66	31.9	65.0	65.0
	60	35.1	65.0	65.0
	54	39.0	65.0	65.0
86	48	43.8	65.0	65.0
	42	50.1	65.0	65.0
	36	58.4	65.0	65.0
	30	65.0	65.0	65.0
	76	31.5	64.8	65.0
82	72	33.3	65.0	65.0
	66	36.3	65.0	65.0
	60	40.0	65.0	65.0
	54	44.4	65.0	65.0
	48	50.0	65.0	65.0
74	42	57.1	65.0	65.0
	36	65.0	65.0	65.0
	76	33.1	65.0	65.0
	72	34.9	65.0	65.0
	66	38.1	65.0	65.0
68	60	41.9	65.0	65.0
	54	46.6	65.0	65.0
	48	52.4	65.0	65.0
	42	59.9	65.0	65.0
	36	65.0	65.0	65.0
62	57	48.9	65.0	65.0
	51	54.6	65.0	65.0
	45	61.9	65.0	65.0
56	57	53.2	65.0	65.0
	51	59.5	65.0	65.0
	45	65.0	65.0	65.0

VERTICAL MULLION LOAD TABLE (MULLION "D")				
DOOR JAMB VERTICAL MULLION REINFORCED WITH TWO CHANNELS				
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE		
		CONNECTION "A" (PSF)	CONNECTION "B" (PSF)	CONNECTION "C" (PSF)
120	76	22.6	46.4	52.2
	72	23.9	49.0	55.1
	66	26.0	53.5	60.1
	60	28.6	58.8	65.0
	54	31.8	65.0	65.0
108	48	35.8	65.0	65.0
	42	40.9	65.0	65.0
	36	47.7	65.0	65.0
	30	57.3	65.0	65.0
	24	65.0	65.0	65.0
98	76	25.1	51.6	58.0
	72	26.5	54.4	61.2
	66	28.9	59.4	65.0
	60	31.8	65.0	65.0
	54	35.4	65.0	65.0
86	48	39.8	65.0	65.0
	42	45.5	65.0	65.0
	36	53.0	65.0	65.0
	30	63.6	65.0	65.0
	24	65.0	65.0	65.0
82	76	27.7	56.8	63.9
	72	29.2	60.0	65.0
	66	31.9	65.0	65.0
	60	35.1	65.0	65.0
	54	39.0	65.0	65.0
74	48	43.8	65.0	65.0
	42	50.1	65.0	65.0
	36	58.4	65.0	65.0
	30	65.0	65.0	65.0
	76	31.5	64.8	65.0
68	72	33.3	65.0	65.0
	66	36.3	65.0	65.0
	60	40.0	65.0	65.0
	54	44.4	65.0	65.0
	48	50.0	65.0	65.0
62	42	57.1	65.0	65.0
	36	65.0	65.0	65.0
	76	33.1	65.0	65.0
	72	34.9	65.0	65.0
	66	38.1	65.0	65.0
56	60	41.9	65.0	65.0
	54	46.6	65.0	65.0
	48	52.4	65.0	65.0
	42	59.9	65.0	65.0
	36	65.0	65.0	65.0

GLASS LOAD TABLE				
DAY LIGHT OPENING (D.L.O.) MAXIMUM LONG SIDE (IN.)	MAXIMUM SHORT SIDE (IN.)	ALLOWABLE PRESSURE		
		GLASS TYPE 1 (PSF)	GLASS TYPE 2 (PSF)	GLASS TYPE 3 (PSF)
96	34	65.0	65.0	37.3
	28	65.0	65.0	51.1
	24	65.0	65.0	65.0
93.5	52.5	65.0	61.2	30.6
	46	65.0	61.6	30.8
	40	65.0	63.7	31.8
	34	65.0	65.0	38.1
	28	65.0	65.0	51.9
87	24	65.0	65.0	65.0
	52.5	65.0	65.0	33.5
	46	65.0	65.0	34.3
	40	65.0	65.0	35.2
	34	65.0	65.0	39.7
81	28	65.0	65.0	53.3
	24	65.0	65.0	65.0
	52.5	65.0	65.0	36.7
	46	65.0	65.0	37.6
	40	65.0	65.0	38.4
75	34	65.0	65.0	41.8
	28	65.0	65.0	55.3
	24	65.0	65.0	65.0
	52.5	65.0	65.0	39.7
	46	65.0	65.0	40.9
69	40	65.0	65.0	41.9
	34	65.0	65.0	45.7
	28	65.0	65.0	58.3
	24	65.0	65.0	65.0
	52.5	65.0	65.0	42.9
68	46	65.0	65.0	45.4
	40	65.0	65.0	46.8
	34	65.0	65.0	49.8
	28	65.0	65.0	61.1
	24	65.0	65.0	65.0

GLASS TYPE 1: 1/4" TEMPERED
 GLASS TYPE 2: 1/4" HEAT STRENGTHEN
 GLASS TYPE 3: 1/4" ANNEALED

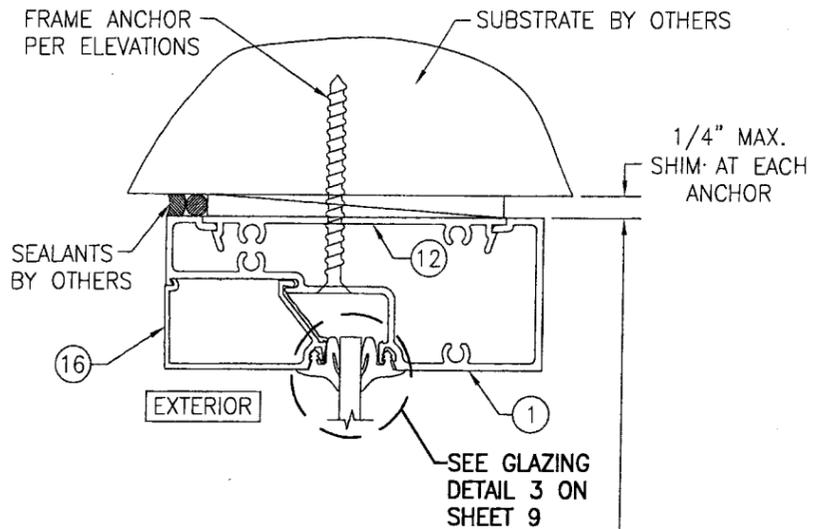
NOTE: GLASS SHALL MEET ALL
 REQUIREMENTS OF CHAPTER 24 OF THE
 2004 FLORIDA BUILDING CODE (FBC)
 INCLUDING SAFETY REQUIREMENTS OF
 SECTION 2406 OF THE FBC.

MULLION "A" = VERTICAL MULLION BETWEEN FIXED PANELS WITH NO REINFORCEMENT
 MULLION "B" = VERTICAL MULLION BETWEEN FIXED PANELS WITH ONE(1) CONTINUOUS STEEL CHANNEL FOR REINFORCEMENT
 MULLION "C" = VERTICAL MULLION BETWEEN DOORS AND FIXED PANELS WITH ONE(1) CONTINUOUS STEEL CHANNEL FOR REINFORCEMENT.
 MULLION "D" = VERTICAL MULLION BETWEEN DOORS AND FIXED PANELS WITH TWO(2) CONTINUOUS STEEL CHANNELS FOR REINFORCEMENT.

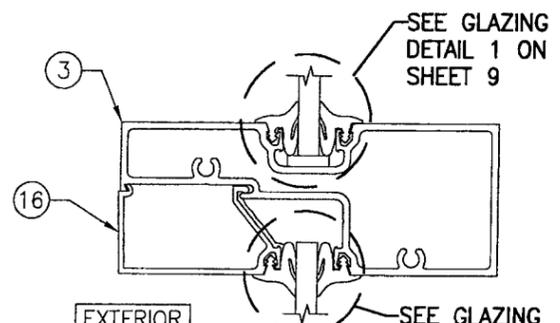
LOAD TABLE NOTES:
 1. THE LESSER OF THE LOADS DETERMINED FROM THE MULLION LOAD TABLES AND THE GLASS LOAD TABLE SHALL CONTROL FOR THE ASSEMBLED UNIT.
 2. ALL LOADS IN THE GLASS LOAD TABLE ARE AS RESTRICTED BY TESTING AND ASTM E1300-02.
 3. ALL LOADS IN THE MULLION LOAD TABLES HAVE BEEN DETERMINED BASED ON THE WEAKEST CONDITION OF USING THE 1 3/4" WIDE FRAMING MEMBERS. IT IS POSSIBLE THAT THE ALLOWABLE LOADS MAY INCREASE WITH USE OF THE 4 1/2" WIDE FRAMING MEMBERS, BUT CONSIDERATION OF THIS INCREASE IS NOT APPLICABLE TO THIS APPROVAL. INCREASE IN MULLION LOADS DUE TO USE OF THE 4 1/2" FRAMING MEMBERS SHALL BE REVIEWED AND CERTIFIED BY A FLORIDA LICENSED ENGINEER UNDER A JOB SPECIFIC APPROVAL.

Approved as complying with the
 Florida Building Code
 Date 07/13/09
 NOA# 06-0519-02
 Miami Dade Product Control
 Division
 By *[Signature]*

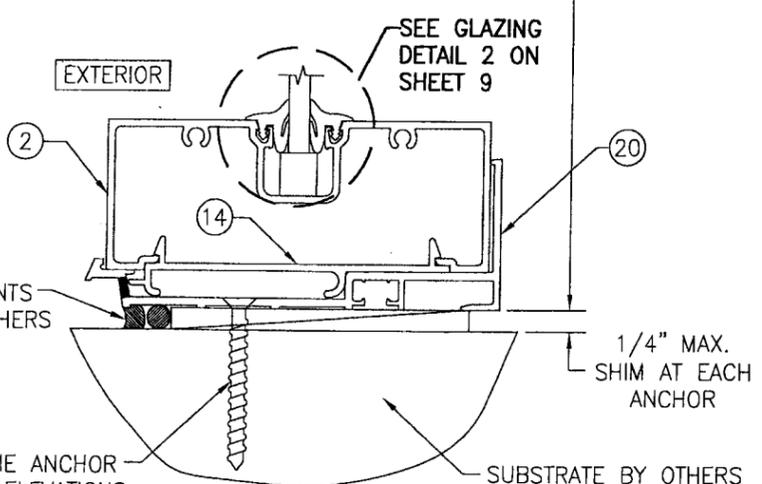
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=1	DATE: 05/06/05
DATE	BY
NO.	REVISION DESCRIPTION
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION	MARK W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1431	REV.
SHEET NO. 5	OF 11



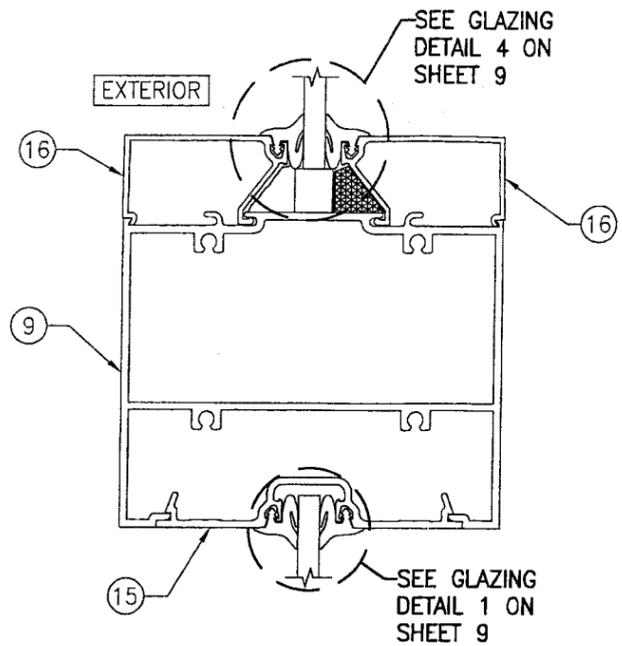
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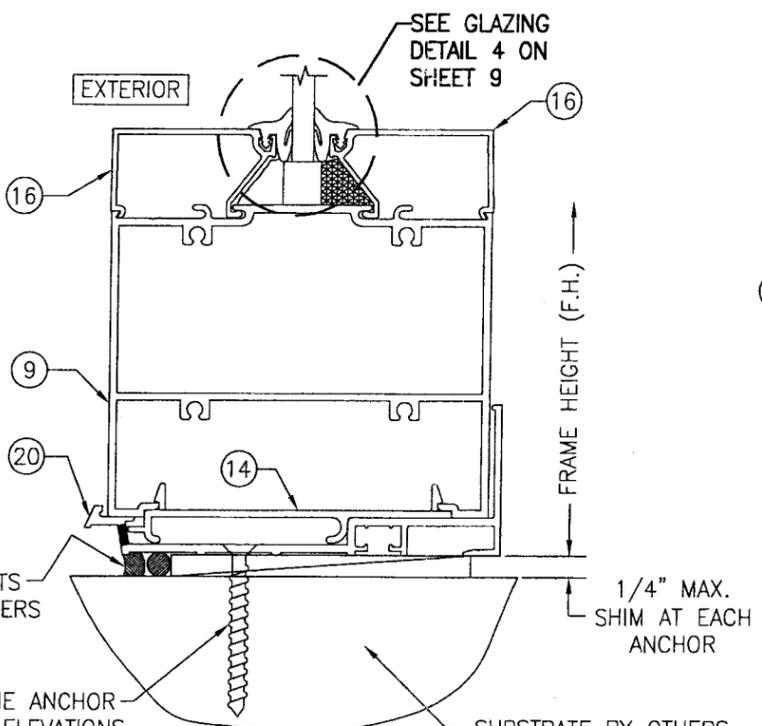
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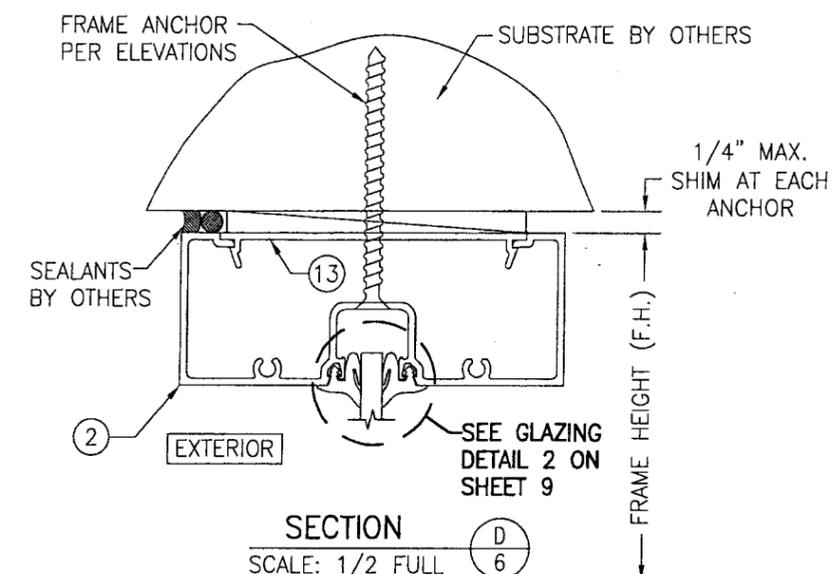
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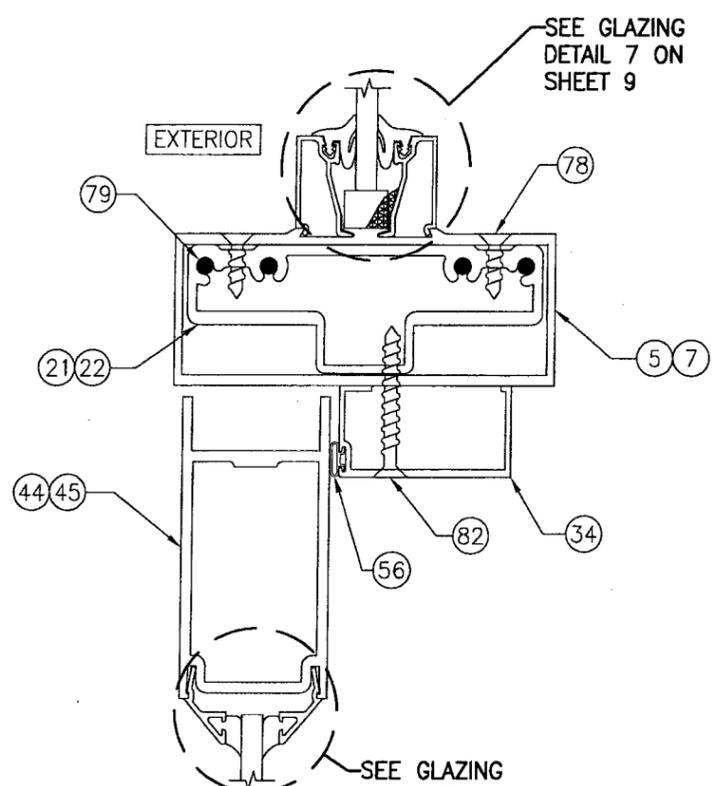
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SECTION C2
SCALE: 1/2 FULL



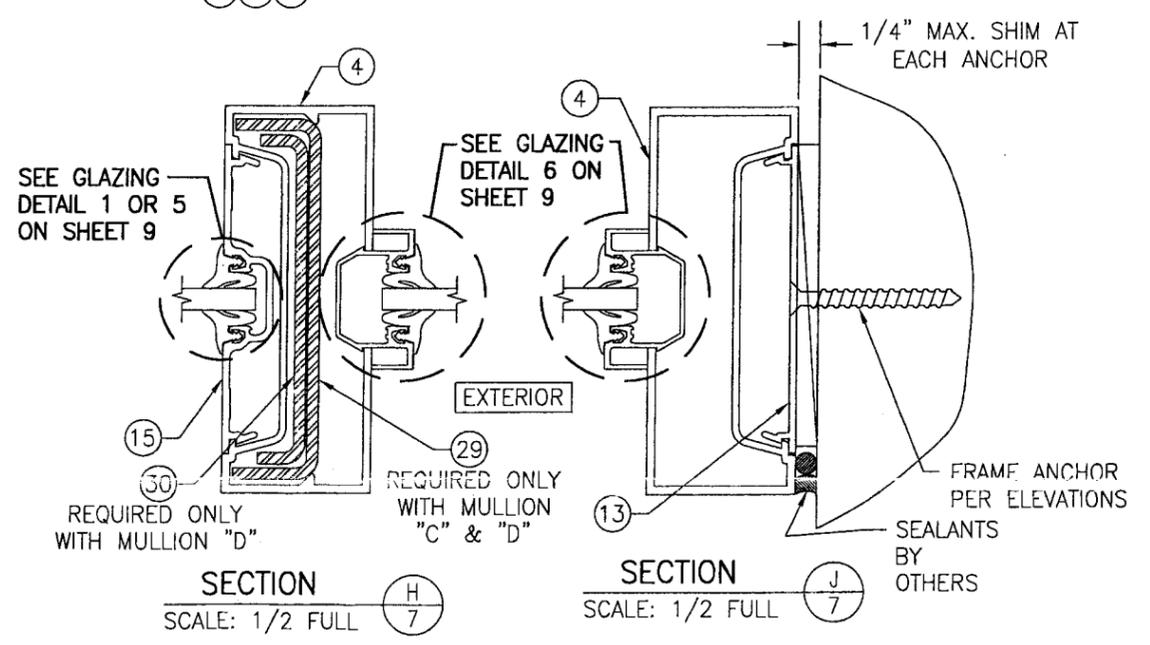
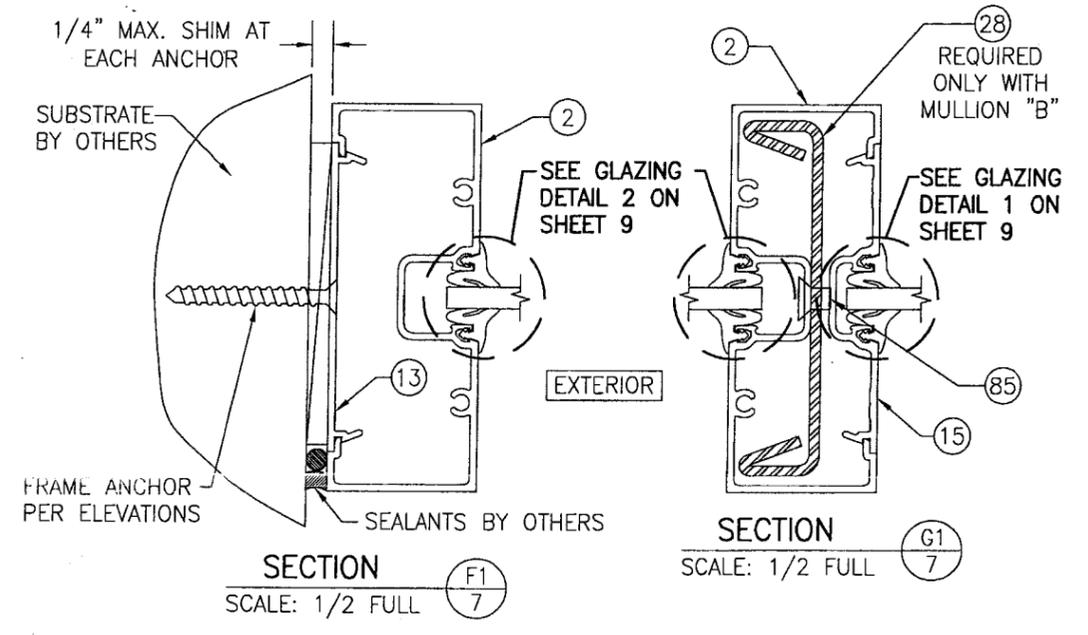
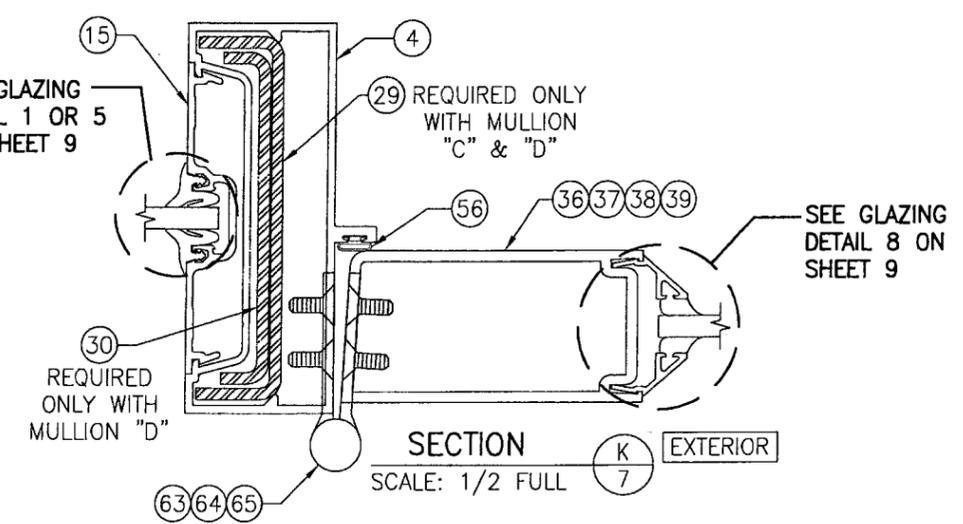
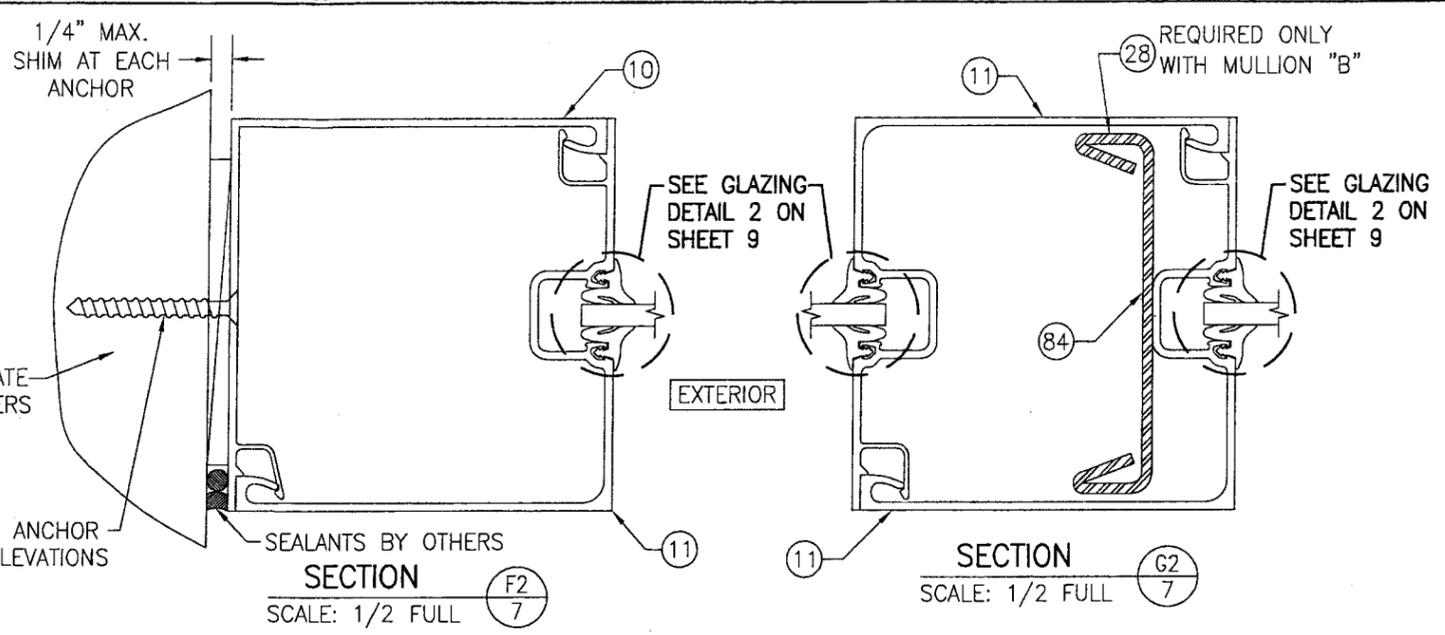
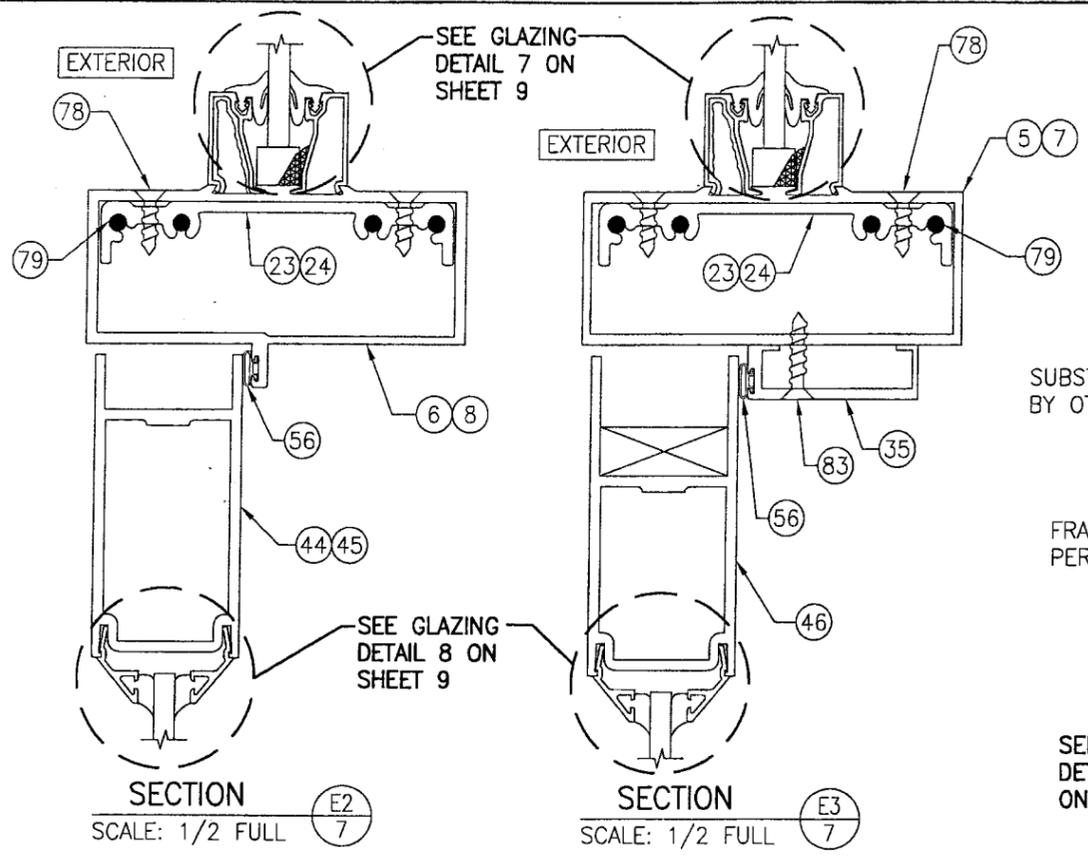
SECTION D
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SECTION E1
SCALE: 1/2 FULL

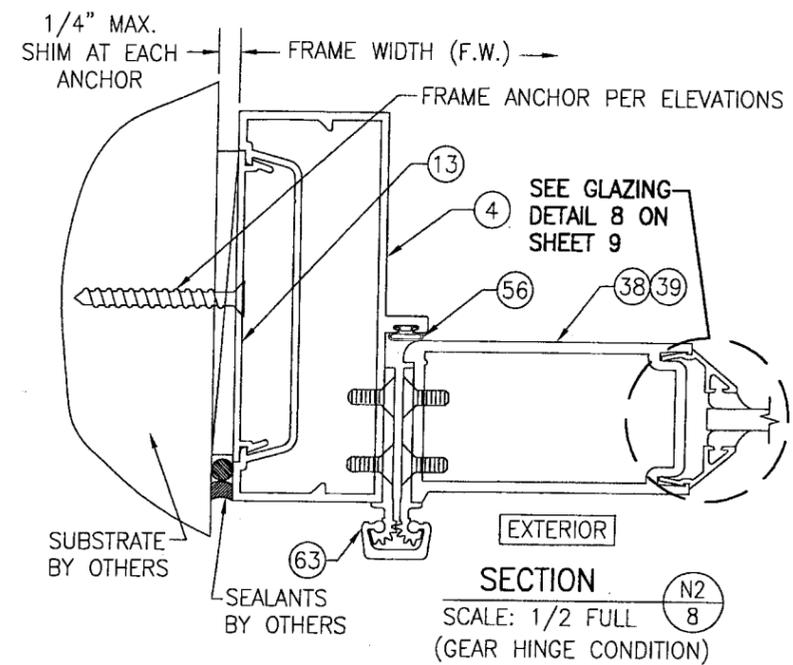
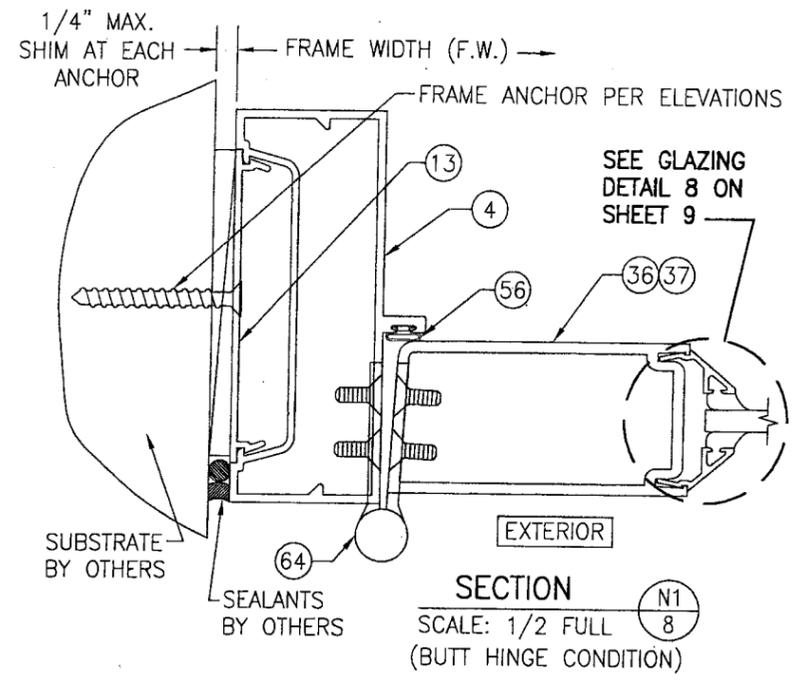
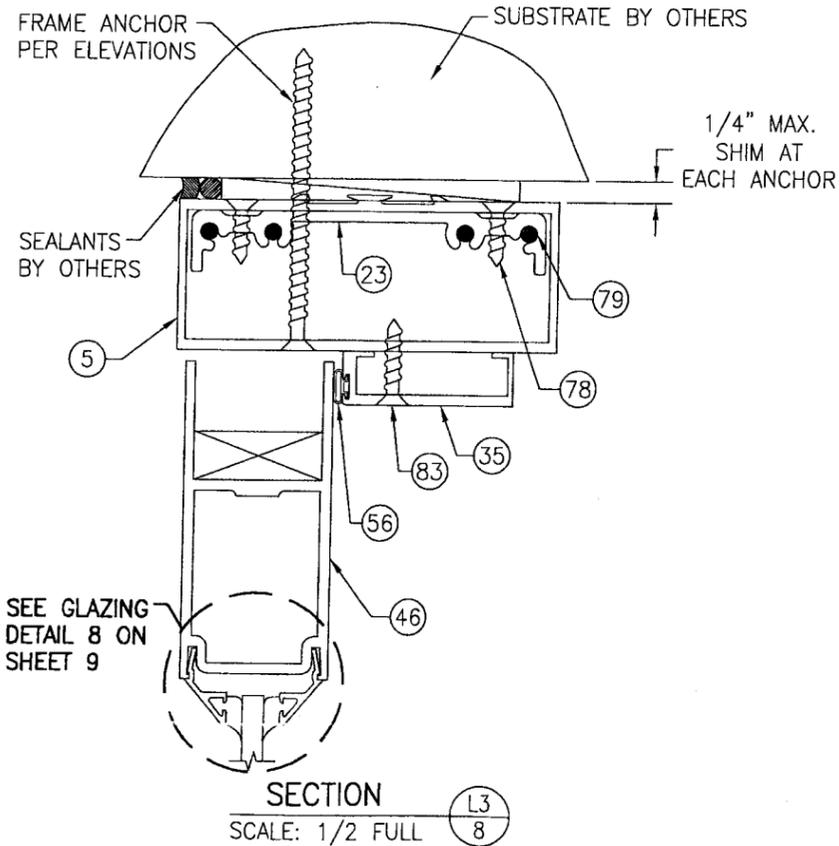
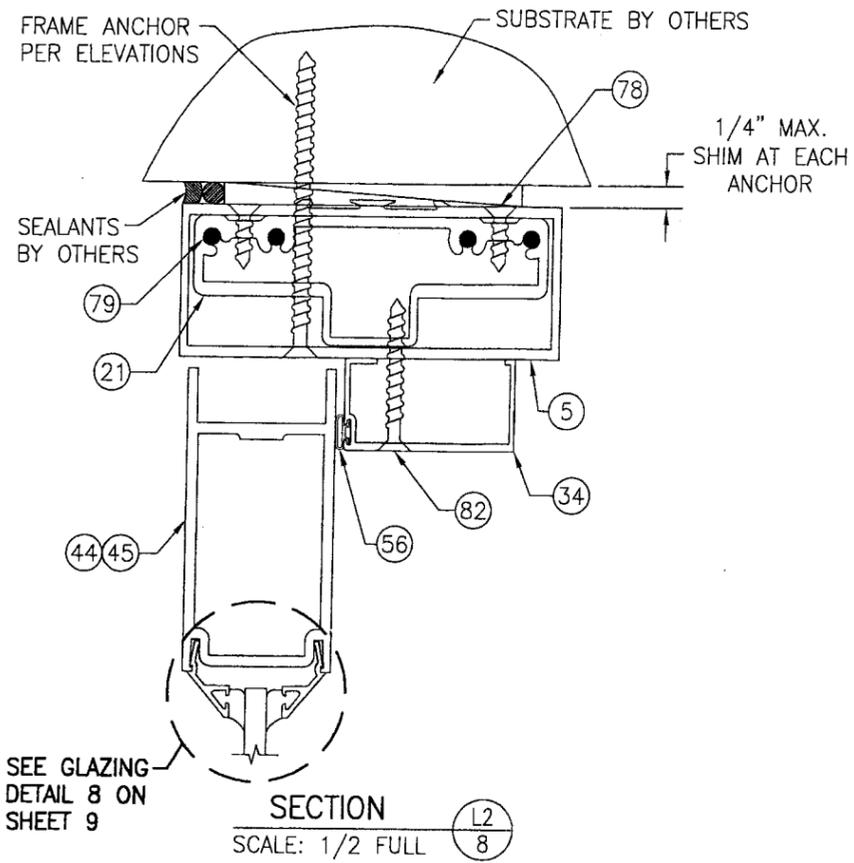
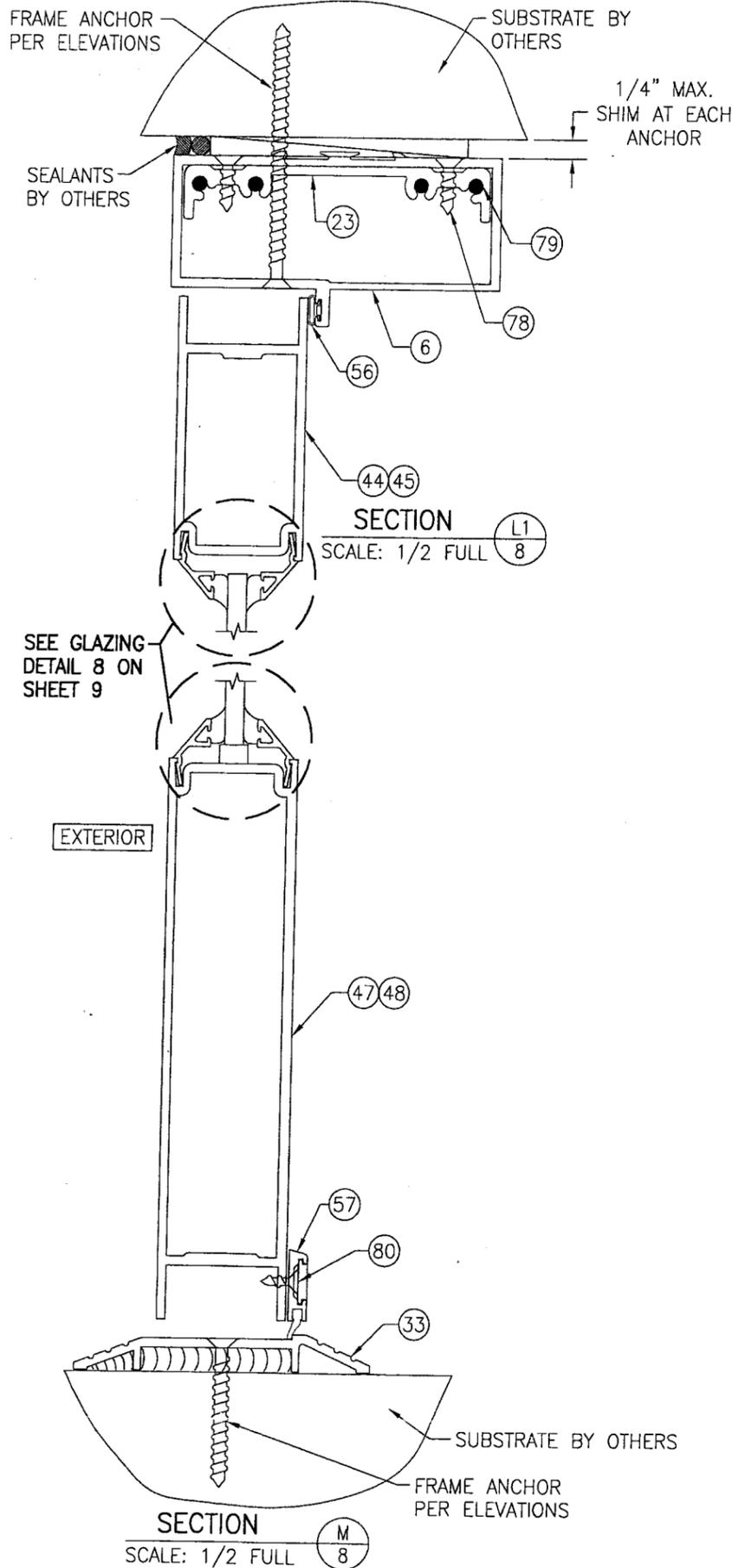
Approved as complying with the
Florida Building Code
Date 07/13/06
NOA# 06-0519-02
Miami Dade Product Control
Division
By *[Signature]*

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/06/05	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION MAY 16 2006 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1431 SHEET NO. 6 OF 11	



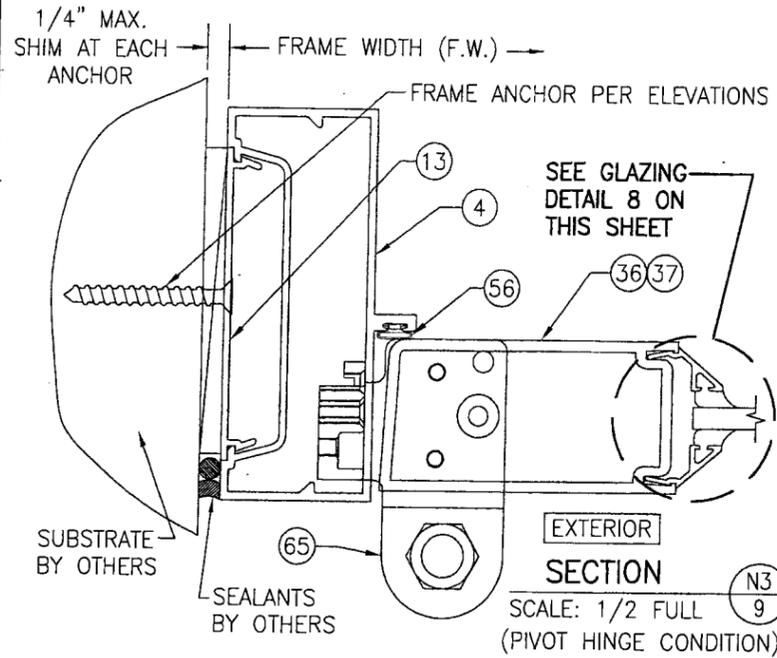
Approved as complying with the Florida Building Code
 Date 07/13/06
 NOA# 06-0519.02
 Miami Dade Product Control Division
 By *[Signature]*

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 09/06/05
NO.	DATE
BY	REVISION DESCRIPTION
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903
CERTIFICATION MAY 16 2006	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1431	REV.
SHEET NO. 7	OF 11

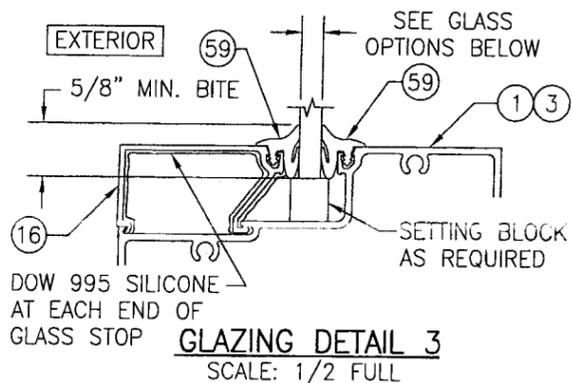
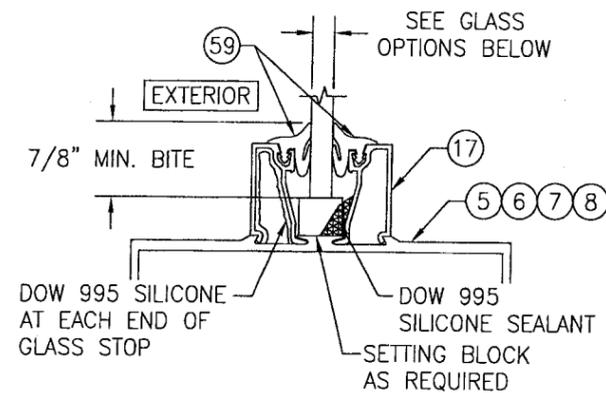
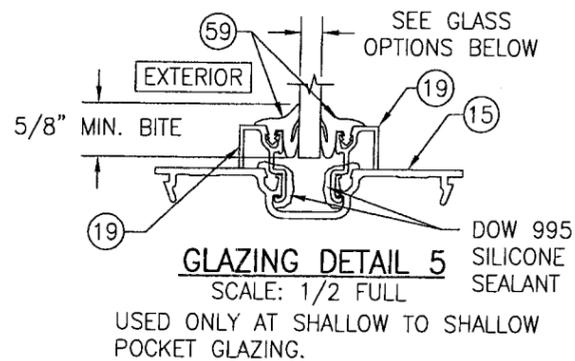
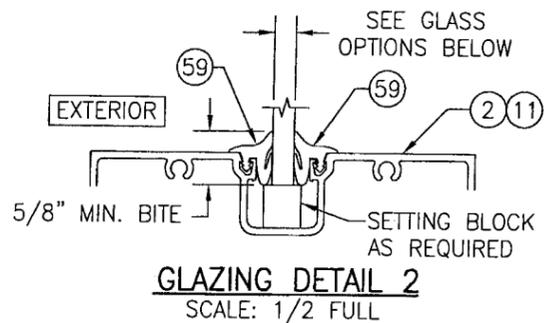
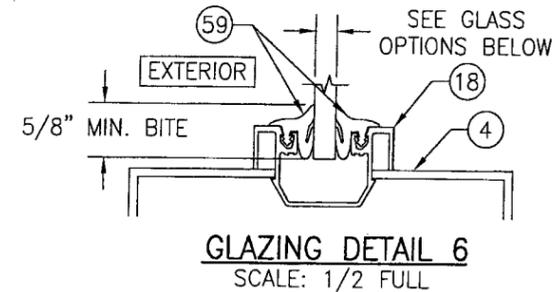
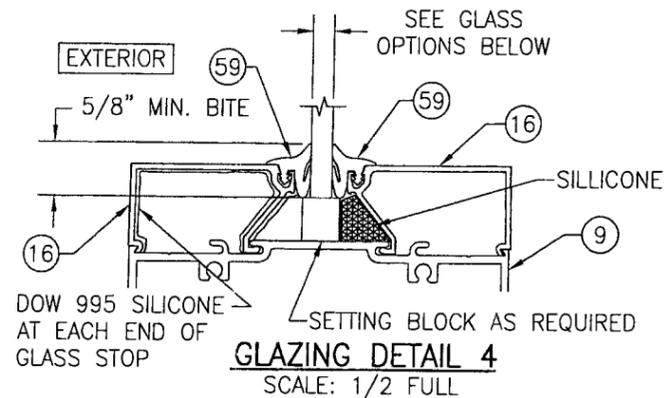
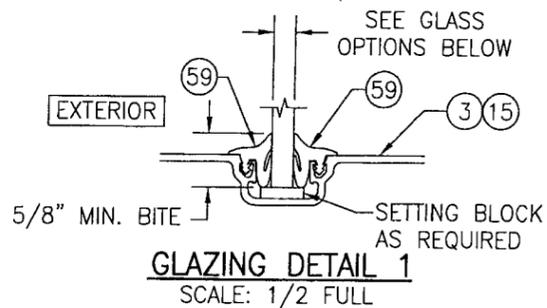
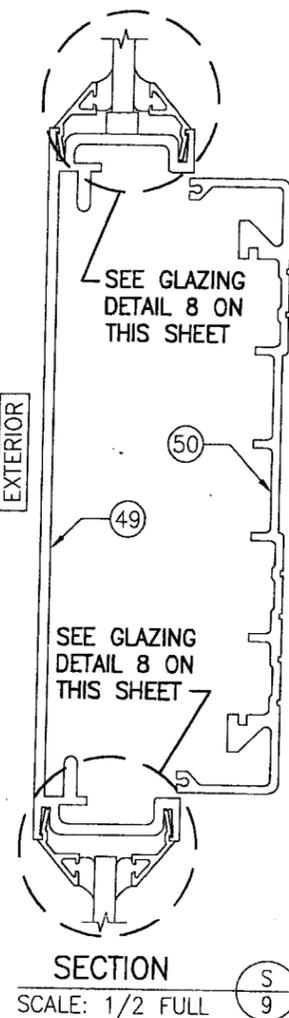
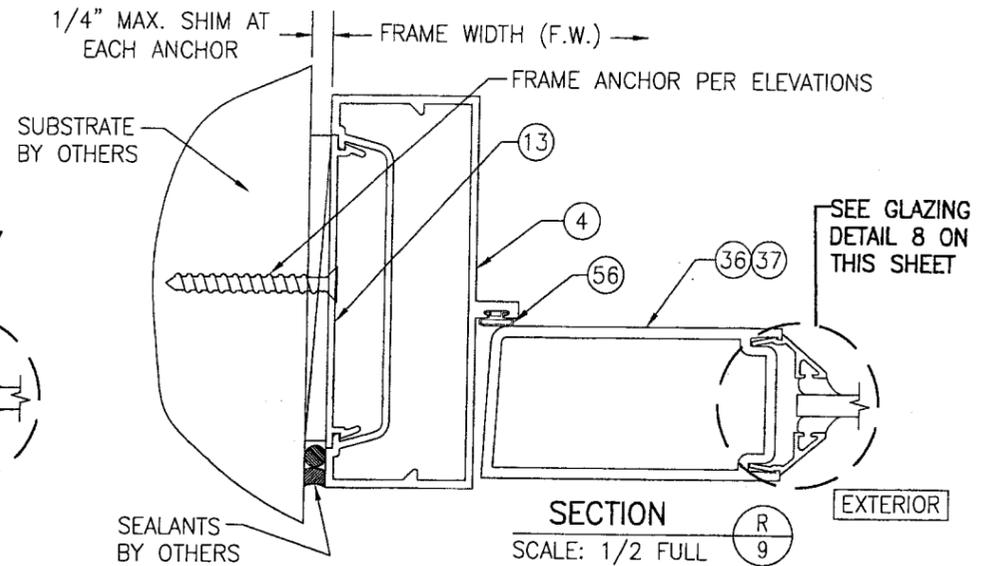
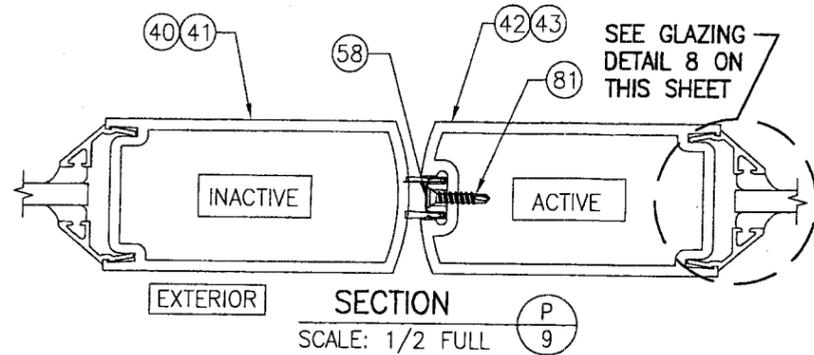


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Florida Building Code
Date 07/13/06
NOA# 00-0519.02
Miami Dade Product Control
Division
By *[Signature]*

DRAWING TITLE		DRAWN BY:		CHECKED BY:	
TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM		K.P.S.		W.W.S.	
CONSULTANTS		PLOT:		DATE:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		1-2		09/06/05	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4802 FAX: 561-775-4903		NO.		REVISION DESCRIPTION	
MANUFACTURER		DATE		BY	
KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555		NO.		REVISION DESCRIPTION	
CERTIFICATION		DRAWING NO.		REV.	
MAY 16 2006		1431			
W. W. SCHAEFER, P.E. P.E. NO. 44135		SHEET NO.		8 OF 11	

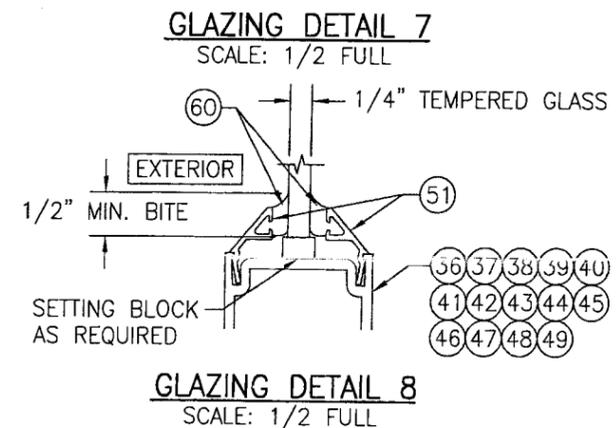


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 Date 02/13/06
 NOAS 06-0519.02
 Miami Dade Product Control Division
 By *[Signature]*

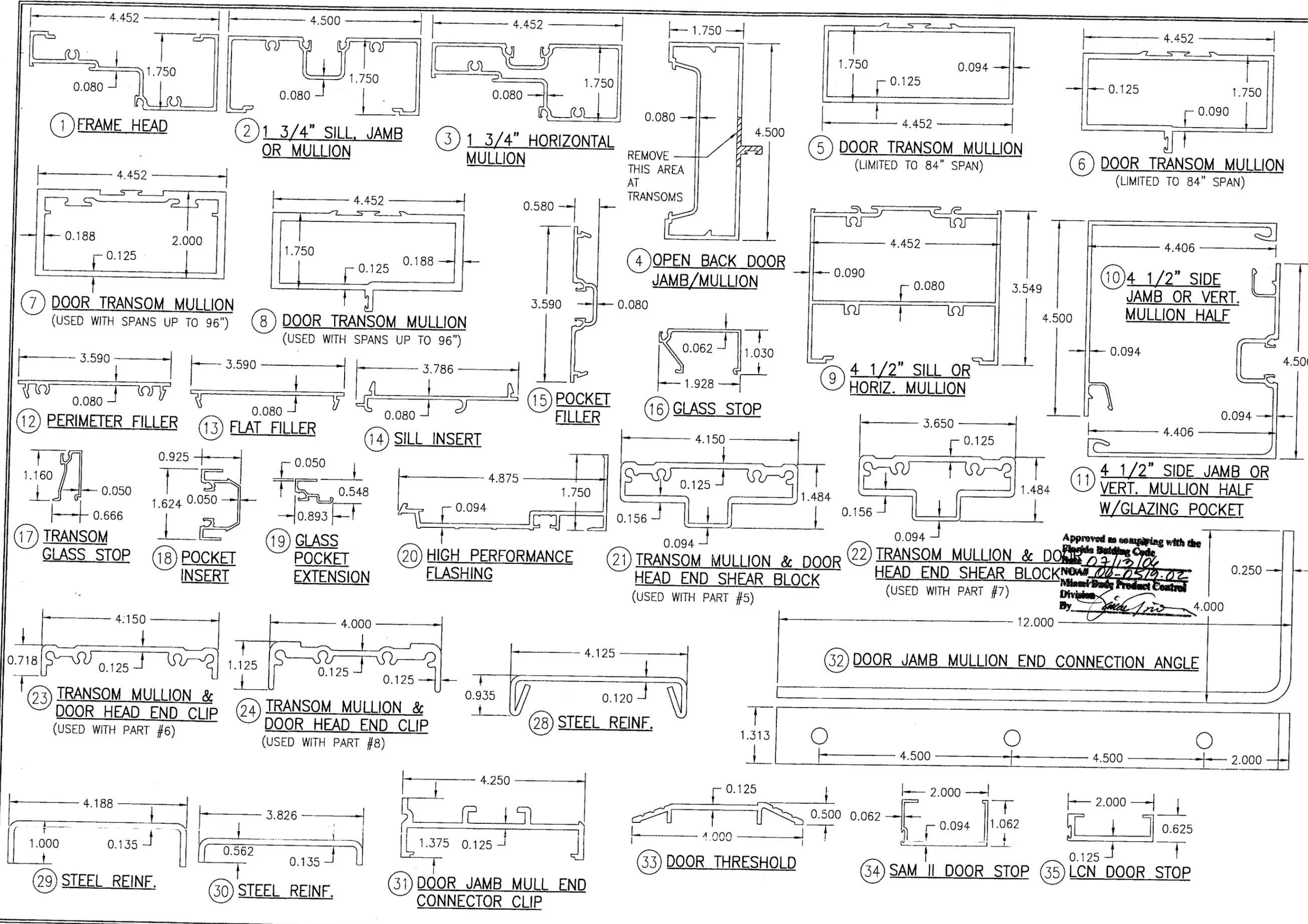


FIXED PANEL GLASS OPTIONS	
GLASS OPTION 1:	1/4" TEMPERED GLASS
GLASS OPTION 2:	1/4" HEAT STRENGTHENED GLASS
GLASS OPTION 3:	1/4" ANNEALED GLASS
SEE "GLASS LOAD TABLE" ON SHEET 5 FOR CLASS LOAD REQUIREMENTS.	

NOTE: GLASS SHALL MEET ALL REQUIREMENTS OF CHAPTER 24 OF THE 2004 FLORIDA BUILDING CODE (FBC) INCLUDING SAFETY REQUIREMENTS OF SECTION 2406 OF THE FBC.

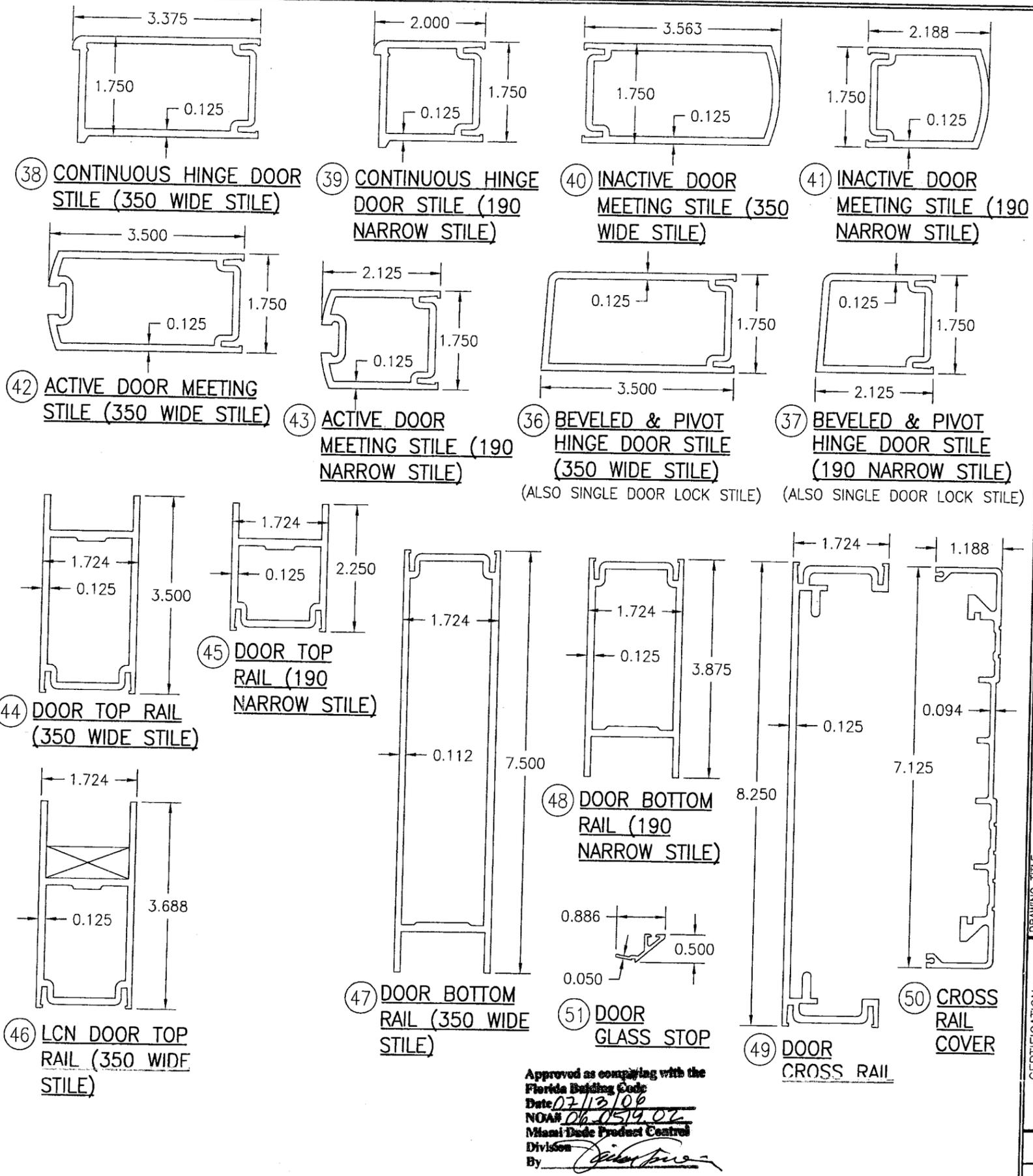


DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 09/06/05
NO.	REVISION DESCRIPTION
DATE	BY
NO.	REVISION DESCRIPTION
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION MAY 16 2006 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1431
	REV. SHEET NO. 9 OF 11



DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 09/06/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
Approved as complying with the Florida Building Code Date: 03/13/04 NO. 00-0519-02 Miami-Dade Product Control Division By: <i>[Signature]</i>			
CERTIFICATION MAY 16 2005 W. W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1431		REV.	
SHEET NO. 10 OF 11			

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	450-CG-003	FRAME HEAD	6063-T6 ALUMINUM
2	450-CG-001	1 3/4" SILL, JAMB OR MULLION	6063-T6 ALUMINUM
3	450-CG-011	1 3/4" HORIZONTAL MULLION	6063-T6 ALUMINUM
4	575-053	OPEN BACK DOOR JAMB/MULLION	6063-T6 ALUMINUM
5	450-079	DOOR TRANSOM & TRANSOM MULLION	6063-T6 ALUMINUM (MULLION LIMITED TO 84" SPAN)
6	450-502	DOOR TRANSOM & TRANSOM MULLION	6063-T6 ALUMINUM (MULLION LIMITED TO 84" SPAN)
7	118-080	DOOR TRANSOM MULLION	6063-T6 ALUMINUM
8	450-096	DOOR TRANSOM MULLION	6063-T6 ALUMINUM
9	450-027	4 1/2" SILL OR HORIZ. MULLION	6063-T6 ALUMINUM
10	450-017	4 1/2" SIDE JAMB OR VERT. MULL HALF	6063-T6 ALUMINUM
11	450-CG-015	4 1/2" SIDE JAMB OR VERT. MULL HALF	6063-T6 ALUMINUM
12	451-CG-163	PERIMETER FILLER	6063-T6 ALUMINUM
13	450-126	FLAT FILLER SHIM SUPPORT	6063-T6 ALUMINUM
14	451-HP-126	SILL INSERT	6063-T6 ALUMINUM
15	450-CG-002	POCKET FILLER	6063-T6 ALUMINUM
16	450-CG-004	GLASS STOP	6063-T6 ALUMINUM
17	450-022	TRANSOM GLASS STOP	6063-T6 ALUMINUM
18	450-033	POCKET INSERT	6063-T6 ALUMINUM
19	575-056	GLASS POCKET EXTENSION	6063-T6 ALUMINUM
20	451-HP-037	HIGH PERFORMANCE FLASHING	6063-T6 ALUMINUM
21	450-548	TRANSOM MULL & DOOR HEAD END SHEAR BLOCK	6063-T6 ALUMINUM (USED WITH PART #5)
22	400-140/141	TRANSOM MULL & DOOR HEAD END SHEAR BLOCK	6063-T6 ALUMINUM (USED WITH PART #7)
23	450-506	TRANSOM MULL & DOOR HEAD END CLIP	6063-T6 ALUMINUM (USED WITH PART #6)
24	118-049	TRANSOM MULL & DOOR HEAD END CLIP	6063-T6 ALUMINUM (USED WITH PART #8)
28	450-110	FIXED PANEL VERT. MULL STEEL REINFORCEMENT	50 KSI STEEL
29	575-300	DOOR JAMB MULL STEEL REINFORCEMENT	50 KSI STEEL
30	575-301	DOOR JAMB MULL STEEL REINFORCEMENT	50 KSI STEEL
31	575-298	DOOR JAMB MULL END CONNECTOR CLIP	6063-T6 ALUMINUM
32	575-299	DOOR JAMB MULL BASE END CONNECTION ANGLE	50 KSI STEEL
33	069-139	DOOR THRESHOLD	6063-T6 ALUMINUM
34	041-045	SAM II DOOR STOP	6063-T6 ALUMINUM
35	069-214	LCN DOOR STOP	6063-T6 ALUMINUM
36	200-005	BEVELED DOOR STILE "350"	6063-T6 ALUMINUM
37	200-002	BEVELED DOOR STILE "190"	6063-T6 ALUMINUM
38	200-012	CONT. HINGE DOOR STILE "350"	6063-T6 ALUMINUM
39	200-011	CONT. HINGE DOOR STILE "190"	6063-T6 ALUMINUM
40	200-007	INACTIVE DOOR MEETING STILE "350"	6063-T6 ALUMINUM
41	200-004	INACTIVE DOOR MEETING STILE "190"	6063-T6 ALUMINUM
42	200-006	ACTIVE DOOR MEETING STILE "350"	6063-T6 ALUMINUM
43	200-003	ACTIVE DOOR MEETING STILE "190"	6063-T6 ALUMINUM
44	200-023	DOOR TOP RAIL "350"	6063-T6 ALUMINUM
45	200-020	DOOR TOP RAIL "190"	6063-T6 ALUMINUM
46	200-024	LCN DOOR TOP RAIL "350"	6063-T6 ALUMINUM
47	200-034	DOOR BOTTOM RAIL "350"	6063-T6 ALUMINUM
48	200-030	DOOR BOTTOM RAIL "190"	6063-T6 ALUMINUM
49	233-013	DOOR CROSS RAIL	6063-T6 ALUMINUM
50	033-105	CROSS RAIL COVER	6063-T6 ALUMINUM
51	200-041	DOOR GLASS STOP	6063-T6 ALUMINUM
SEALS AND SEALANTS			
56	027-078	BULB WEATHERSTRIPPING	ALCRYN
57	200-795	DOOR BOTTOM SWEEP ASSEMBLY	VARIED
58	200-496	ASTRAGAL WEATHERSTRIPPING	VARIED
59	027-074	PUSH-ON GASKET	EPDM
60	027-563	DOOR WEATHERING	EPDM
HARDWARE			
63	050-821	CONTINUOUS GEAR HINGE	BY HAGER/ROTON
64	037-232	BUTT HINGE (3 PER PANEL)	BY HAGER
	050-322	TOP OFFSET PIVOT	BY KAWNEER
65	050-331	INTERMEDIATE OFFSET PIVOT	BY KAWNEER
	050-326/327	RH/LH BOTTOM OFFSET PIVOT	BY KAWNEER
66	-	MS 1850 3-POINT LOCK	BY ADAMS-RITE
67	050-079	FLUSH BOLT LOCK	BY KAWNEER
68	-	CONSEALED ROD EXIT DEVICE	DOROMATIC 1690
69	-	CONSEALED ROD EXIT DEVICE	KAWNEER PANELINE CR90
70	-	CONSEALED ROD EXIT DEVICE	JACKSON 2086
71	-	CONSEALED ROD EXIT DEVICE	KAWNEER 1686
72	-	OVERHEAD CONCEALED DOOR CLOSER	BY KAWNEER OR LCN
73	-	SURFACE DOOR CLOSER	BY NORTON
74	C09 OR CPN	PUSH/PULL PANIC DEVICE	BY KAWNEER
MISCELLANEOUS FASTENERS			
78	-	NO. 10 X 1 1/4" S.S. SCRFW	2 PER CLIP
79	-	NO. 10 X 1/2" S.S. SCREW	4 PER CLIP
80	-	NO. 6 X 3/8" S.S. SCREW	7 PER DOOR SWEEP
81	-	NO. 6 X 3/4" SCREW	10 PER DOOR LEAF MAX.
82	-	NO. 10 X 1 5/8" S.S. SCREW	8 PER STOP
83	-	NO. 10 X 1" S.S. SCREW	5 PER STOP
84	-	1/4" X 5/8" S.S. SCREW	6" FROM ENDS & 12" MAX. O.C.
85	-	NO 10-24 X 3/8" S.S. SCREW	1 AT CENTER



Approved as complying with the Florida Building Code
 Date 07/13/09
 NOAH 06-0519-02
 Miami Dade Product Control Division
 By *[Signature]*

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/06/05	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION MAY 16 2009 WARR. W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1431 REV. SHEET NO. 11 OF 11	