



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

ES Windows, LLC
3550 NW 49th Street
Miami, FL 33142

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "EL400" Aluminum Sliding Glass Door - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W16-73 Rev F**, titled "ES-EL400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, dated 11/28/16 and last revised on JUL 07, 2023, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. See Elevations in sheets **1, 2, 3, 4** and anchors requirements. See Header anchor capacity charts in sheet **6** and Glass capacity VS size in sheet **5**. Overall Lower Design Pressure (DP) controls for entire the assembly.
2. Where applicable, door must comply with FBC egress requirements.
3. See sheets **7** thru **13** for various configurations, tracks, pockets, non-pockets and allowable frame area.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Baranquilla, Columbia, S.A.**, series, and the 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 **revises** NOA # **22-0908.07** consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5, E-6 and E-7, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



Ishaq I. Chanda

NOA No. 23-0714.13
Expiration Date: July 20, 2027
Approval Date: August 17, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approval.
- A. **DRAWINGS**
 1. Manufacturer's die drawings and sections.
 2. Drawing No. **W16-73**, titled "ES-EL400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, dated 11/28/16, with revision A dated 07/12/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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, and TAS 202-94
 - 6) Large Missile Impact Test per FBC, TAS 201-94
 - 7) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-009**, dated 06/15/17, signed and sealed by Constantin Bortes, P.E. with Letter of Clarification issued on 07/13/17, signed and sealed by Constantin Bortes, P.E.
- C. **CALCULATIONS**
 1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014) and FBC-6th Edition (2017)**, dated 06/20/17 and revised on 07/13/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
 2. Glazing complies with **ASTM E1300-09**.
- D. **QUALITY ASSURANCE**
 1. Miami-Dade Department of Regulatory and Economic Resources (RER)
- E. **MATERIAL CERTIFICATIONS**
 1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**", expiring on 07/08/19.
 2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**Sentry Glass® (Clear and White) Glass Interlayer**", expiring on 07/04/18.
 3. Notice of Acceptance No. **15-1201.11** issued to **Eastman Chemical Co. (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 03/17/16, expiring on 05/21/21.
 4. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Co. (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 06/19/14, expiring on 11/11/18.
- F. **STATEMENTS**
 1. Statement letter of conformance, complying with **FBC-5th Edition (2014) and FBC-6th Edition (2017)** dated 07/12/17, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0714.13
Expiration Date: July 20, 2027
Approval Date: August 17, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (continue)

2. Statement letter of no financial interest, dated 07/12/17, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
3. Distributor Agreement, signed by Carlos Garcia and by Evelyn Daes.
4. Laboratory compliance statement for Test Report No. **BT-ESW-17-009**, issued by Blackwater Testing, Inc., dated 06/15/17, signed and sealed by Dennis Duffy, CEO.
5. Proposal No. **16-1478** issued by the Product Control Section, dated 11/17/16, signed by Ishaq I. Chanda, P.E.

2. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **W16-73 Rev B**, titled “ES-EL400 Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, dated 11/28/16 and last revised on Dec 30, 2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-7th Edition (2020)**, dated 11/18/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09 &-16**.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.
2. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**”, expiring on 07/04/23.
3. Notice of Acceptance No. **15-1201.11** issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/21.
4. Notice of Acceptance No. **18-0301.06** issued to **Eastman Chemical Co. (MA)** for their “**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**”, expiring on 11/11/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-7th Edition (2020)** and No financial interest, dated 11/18/20, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Test Lab Compliance statement, as part of test report.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0714.13
Expiration Date: July 20, 2027
Approval Date: August 17, 2023

ES Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

1. This NOA revises **NOA No. 16-0617.02** and updates to FBC 2020 (7th Edition) expiring 07/20/22.
2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0714.13
Expiration Date: July 20, 2027
Approval Date: August 17, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous submittal

A. DRAWINGS

1. Drawing No. **W16-73 Rev C**, titled "ES-EL400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, dated 11/28/16 and last revised on July 22, 2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS (Supplement test for sill riser part #ES-2020-041)

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, and TAS 202-94
6) Large Missile Impact Test per FBC, TAS 201-94
7) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of aluminum sliding glass doors, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-19007**, dated 12/09/19, signed and sealed by Constantin Bortes, P.E.

C. CALCULATIONS

1. Comparative structural section properties sill riser analysis, dated 07/07/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09 &-16**.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Co. (MA)** for their "Saflex Clear and Color Glass Interlayers", expiring on 05/21/26.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-7th Edition (2020)** and No financial interest, dated 07/07/21, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Test Lab Compliance statement, as part of test report.

G. OTHER

1. This NOA **revises NOA No. 20-1118.06** and updates to FBC 2020 (7th Edition) expiring 07/20/22.
2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files.
3. Comparative Sectional properties analysis of sill Risers.

————— Ishag I. Chanda —————
Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0714.13
Expiration Date: July 20, 2027
Approval Date: August 17, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **W16-73 Rev D**, titled “ES-EL400 Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, dated 11/28/16 and last revised on August 04, 2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS (submitted under previous approval)

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

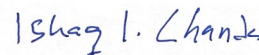
1. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/26.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-7th Edition (2020)** and No financial interest, dated 01/12/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHER

1. This NOA **renews NOA No. 21-0728.02**, expiring 07/20/27.
2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files).
3. Comparative Sectional properties analysis of sill Risers (under previous approval).



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0714.13
Expiration Date: July 20, 2027
Approval Date: August 17, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **W16-73 Rev E**, titled “ES-EL400 Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, dated 11/28/16 and last revised on SEP 23, 2022, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(This revision consists of additional door sizes in charts in sheets 5 & 6)

B. TESTS

1. None.

C. CALCULATIONS (submitted under previous approval)

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/26.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-7th Edition (2020)** dated 09/06/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Statement letter of conformance, complying with **FBC-7th Edition (2020)** and No financial interest, dated 01/12/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHER (Items #2 & #3 submitted under previous approvals)

1. This NOA **revises NOA No. 22-0118.0**, expiring 07/20/27.
2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files).
3. Comparative Sectional properties analysis of sill Risers (under previous approval).
4. E-mail correspondence dated 09/02/22 between RER and Al-Farooq Corp.

_____ Ishtaq I. Chanda
Ishtaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0714.13
Expiration Date: July 20, 2027
Approval Date: August 17, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. New Evidence submitted

A. DRAWINGS

1. Drawing No. **W16-73 Rev F**, titled “ES-EL400 Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, dated 11/28/16 and last revised on JUL 07, 2023, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS (submitted under previous approval)

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/26.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.
3. Notice of Acceptance No. **22-1130.05** issued to **Eastman Chemical Company (MA)** (former Solutia, Inc.) for the “**Saflex Storm: Saflex & Saflex HP composite glass interlayer w/PETcore**”, expiring on 12/11/28.
4. Notice of Acceptance No. **20-0915.19** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**”, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 07/11/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Statement letter of conformance, complying with **FBC-7th Edition (2020)** dated 09/06/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHER (Items #2 thru #4 submitted under previous approvals)

1. This NOA **revises NOA No. 22-0908.07**, expiring 07/20/27.
2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files).
3. Comparative Sectional properties analysis of sill Risers (under previous approval).
4. E-mail correspondence dated 09/02/22 between RER and Al-Farooq Corp.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0714.13
Expiration Date: July 20, 2027
Approval Date: August 17, 2023

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0714.13
Expiration Date 07/20/2027
By Ishag I. Zhand
Miami-Dade Product Control

DAYLITE OPENING WIDTH:
PANEL WIDTH - 5.688"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT - 5.813"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.250"

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

SERIES ES-EL400
ALUMINUM SLIDING GLASS DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

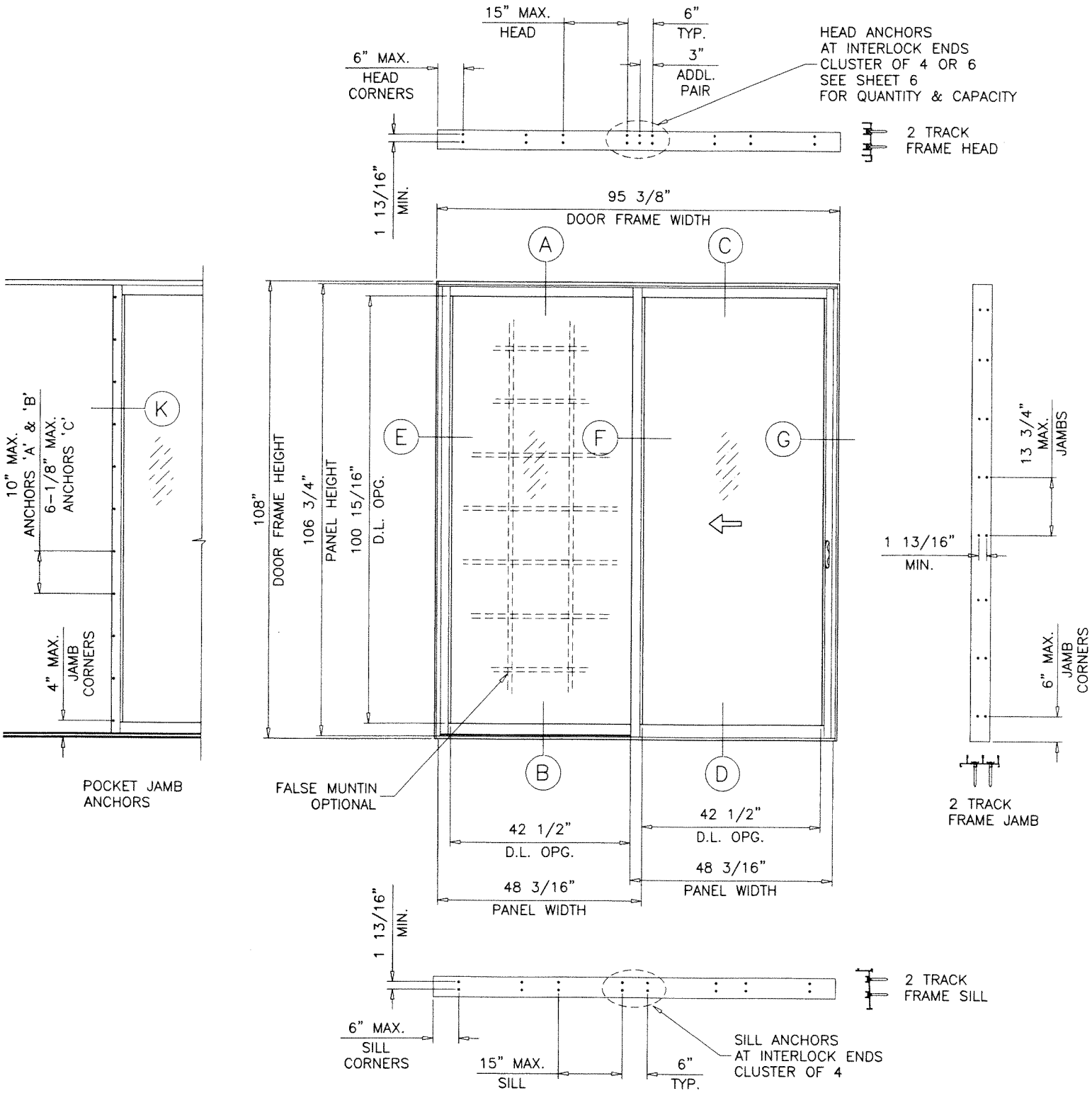
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

INSTRUCTIONS:

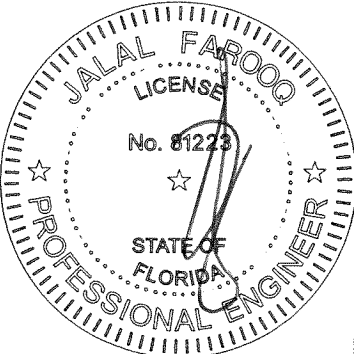
- USE CHARTS AS FOLLOWS
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLE ON SHEET 5 FOR THE REINFORCING OPTION USED.
- STEP 3** USING CHARTS ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.



TYPICAL ELEVATION

OX

JUL 07 2023



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W16-73ES

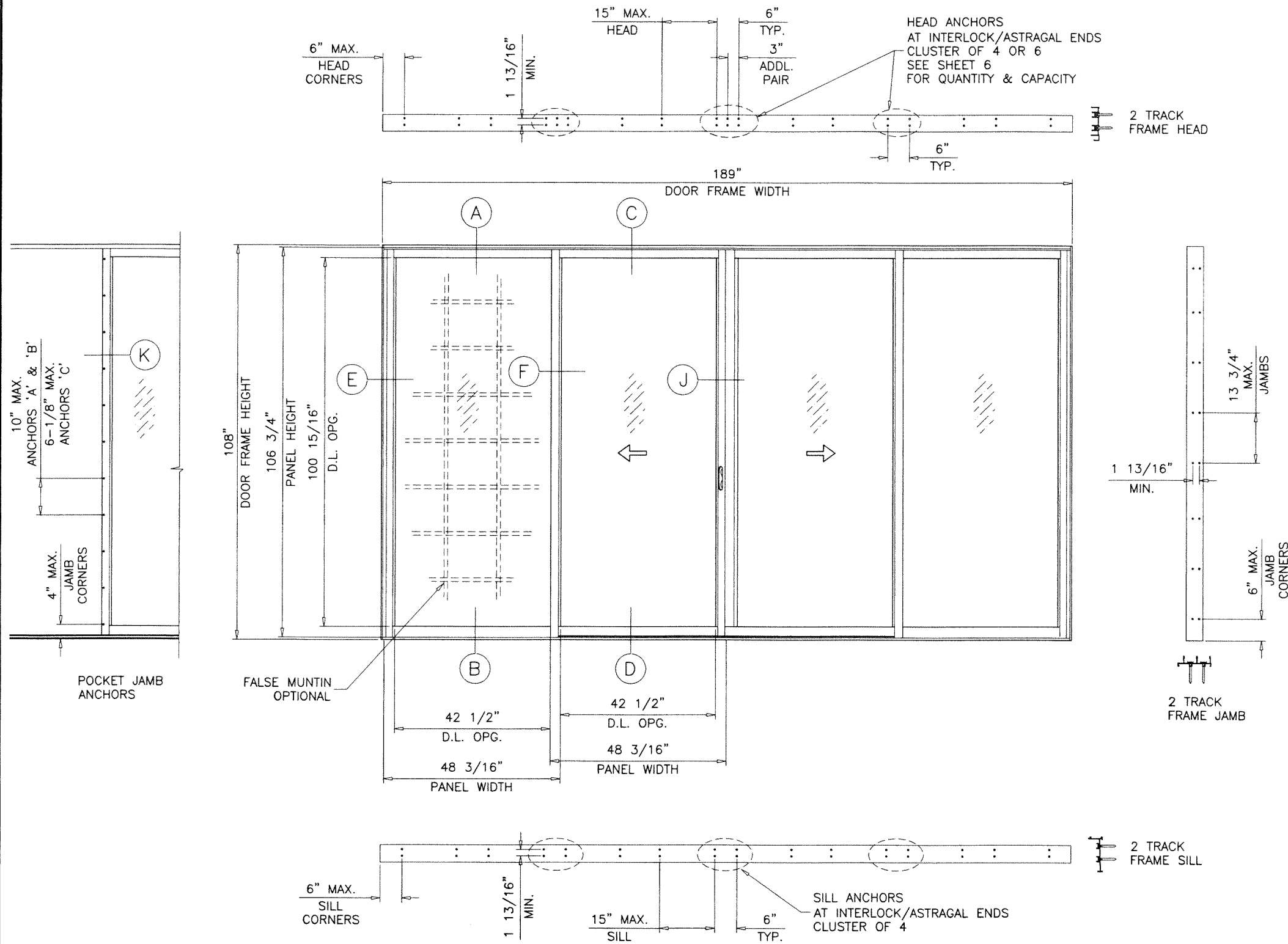
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

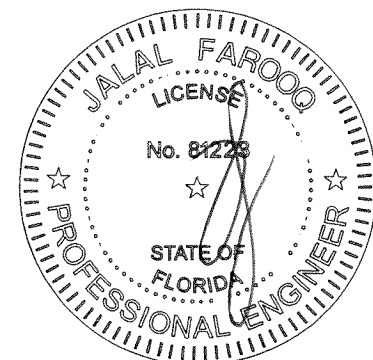
revisions:	no	date	description	by
	C	06.23.21	SILL RISER REVISED	
	D	08.04.21	SILL RISER OPTIONS ADDED	
	E	09.06.22	NO CHANGE THIS SHEET	
	F	07.06.23	UPDATED TO 2023 FBC	

date: 11-28-16
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. **W16-73**
sheet 1 of 23



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0714.13
Expiration Date 07/20/2027
By Ishag I. Chande
Miami-Dade Product Control



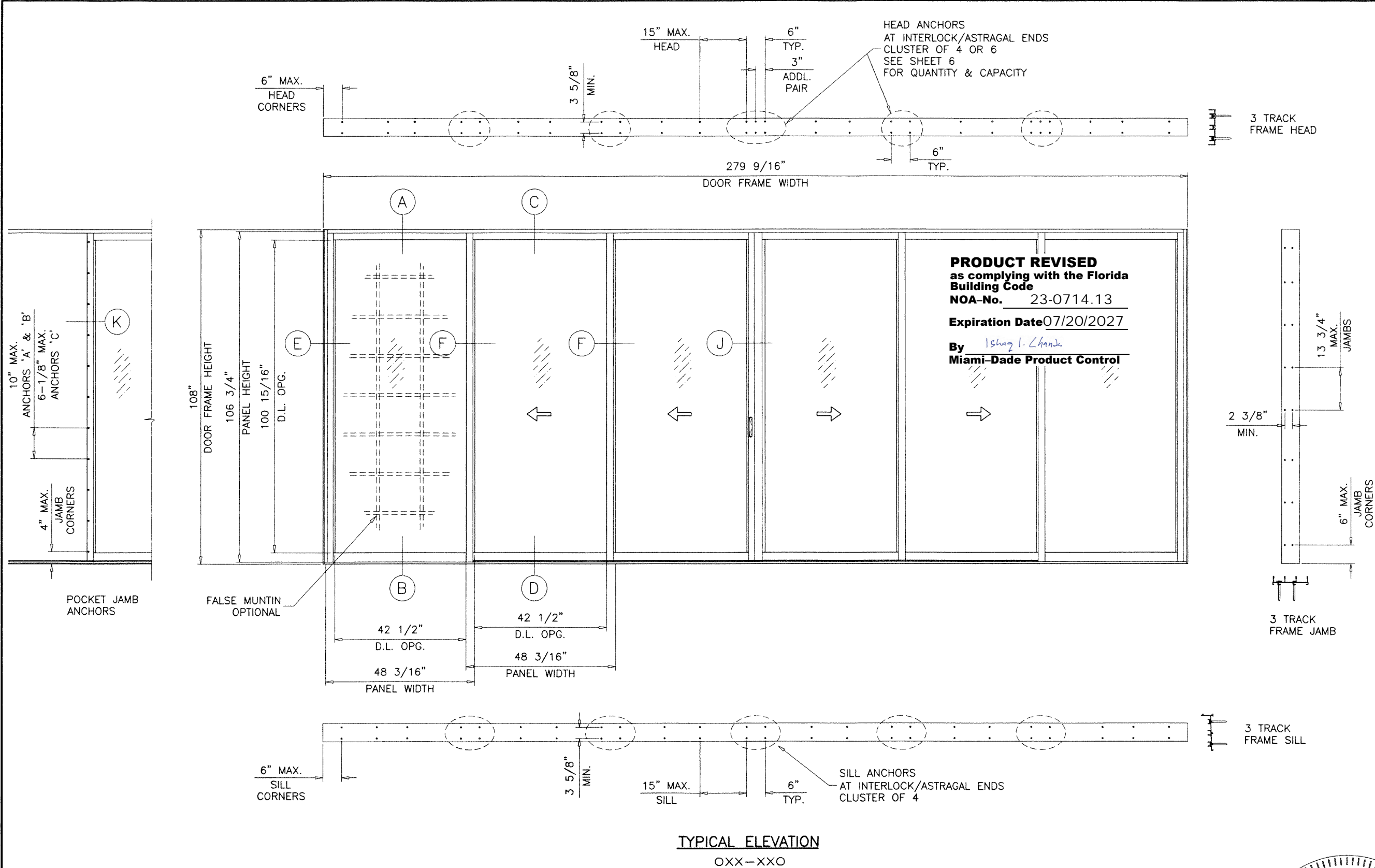
JUL 07 2023

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL\W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

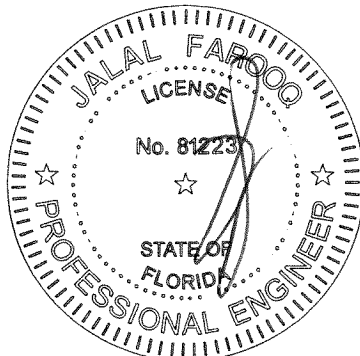
revisions:		by description	
no	date	no	date
C	06.23.21	NO CHANGE THIS SHEET	
D	08.04.21	NO CHANGE THIS SHEET	
E	09.06.22	NO CHANGE THIS SHEET	
F	07.06.23	NO CHANGE THIS SHEET	

date: 11-28-16	scale: 3/8"=1'-0"	dr. by: TARIQ	chk. by:
drawing no. W16-73	sheet 2 of 23		



TYPICAL ELEVATION
OXX-XXO

JUL 07 2023



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	
no	description
C	06.23.21 NO CHANGE THIS SHEET
D	08.04.21 NO CHANGE THIS SHEET
E	09.06.22 NO CHANGE THIS SHEET
F	07.06.23 NO CHANGE THIS SHEET

date: 11-28-16

scale: 3/8"=1'-0"

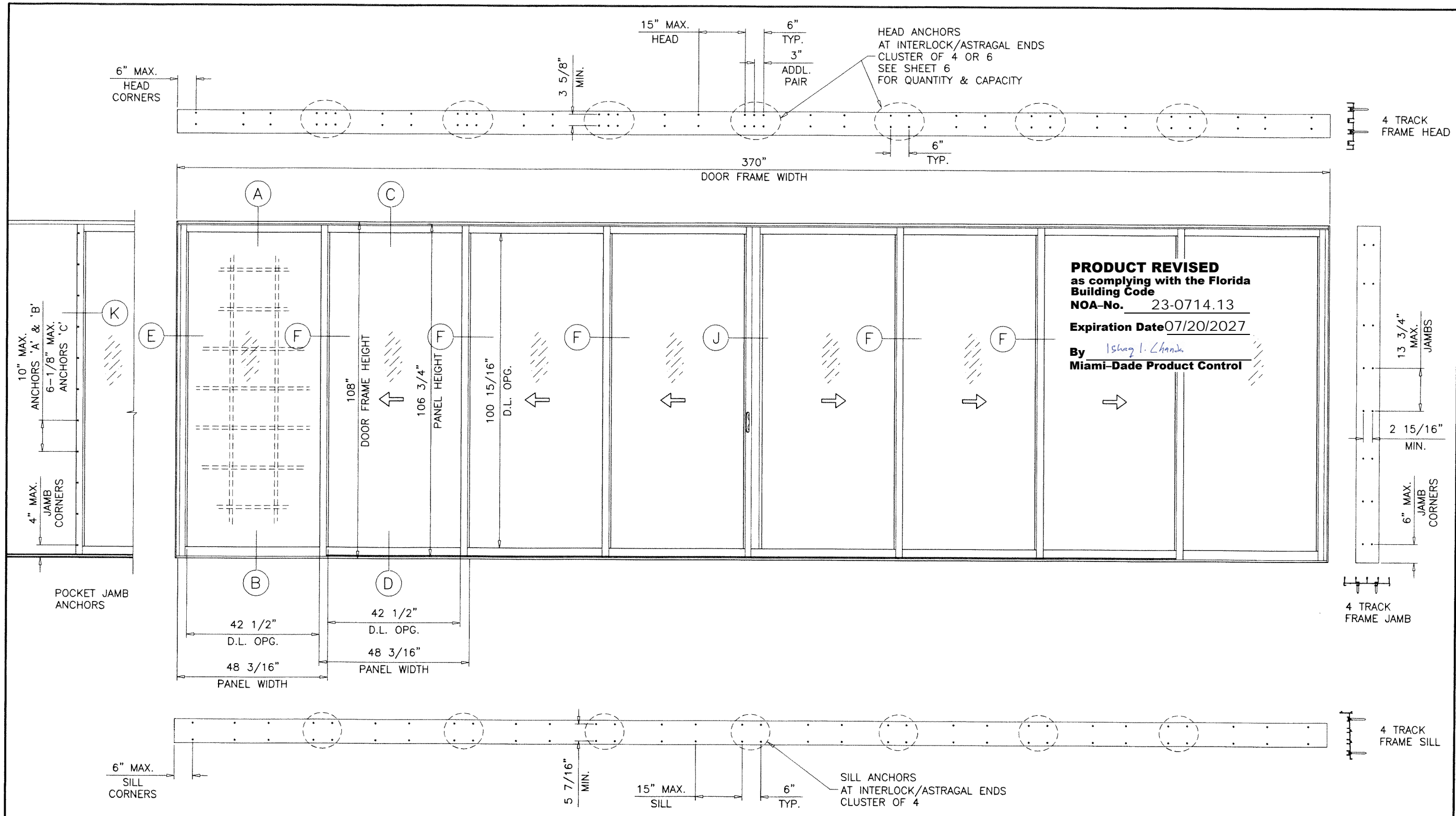
dr. by: TARIQ

chk. by:

drawing no.

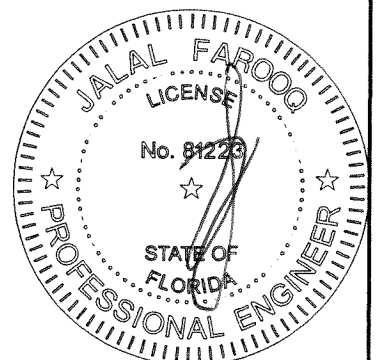
W16-73

sheet 3 of 23



TYPICAL ELEVATION
OXXX-XX XO

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0714.13
Expiration Date 07/20/2027
By Ishag I. Chande
Miami-Dade Product Control



JUL 07 2023

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W16-73ES

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		date		by		description	
no	date	no	date	no	date	no	date
C	06.23.21	C	06.23.21	C	06.23.21	C	06.23.21
D	08.04.21	D	08.04.21	D	08.04.21	D	08.04.21
E	09.06.22	E	09.06.22	E	09.06.22	E	09.06.22
F	07.06.23	F	07.06.23	F	07.06.23	F	07.06.23

date: 11-28-16

scale: 3/8"=1'-0"

dr. by: TARIQ

chk. by:

drawing no.

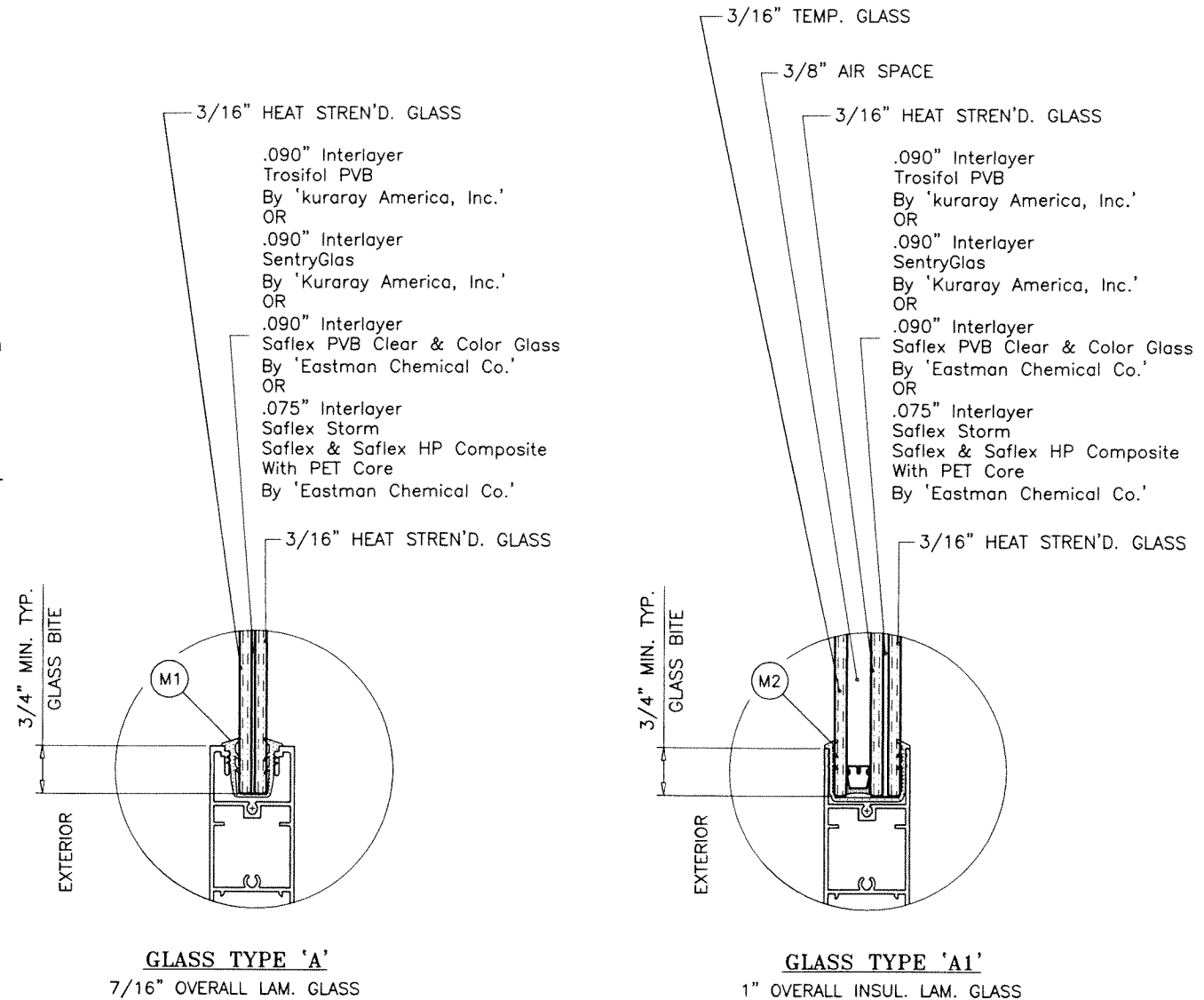
W16-73

sheet 4 of 23

DESIGN LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	INTERLOCK & ASTRAGAL STILES WITHOUT REINF.		INTERLOCK & ASTRAGAL STILES WITH REINF.	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24	82	60.0	60.0	80.0	80.0
30		60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48		59.1	59.1	78.8	78.8
54	84	52.5	52.5	70.0	70.0
60		-	-	47.3	47.3
24		60.0	60.0	80.0	80.0
30		60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48	90	59.1	59.1	78.8	78.8
54		-	-	52.5	52.5
24		60.0	60.0	80.0	80.0
30		60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48	96	-	-	59.1	59.1
24		60.0	60.0	80.0	80.0
30		60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48	102	-	-	60.0	60.0
24		-	-	60.0	60.0
30		-	-	60.0	60.0
36		-	-	60.0	60.0
42		-	-	60.0	60.0
47-1/4		-	-	60.0	60.0
48	108	-	-	60.0	60.0
24		-	-	60.0	60.0
30		-	-	60.0	60.0
36		-	-	60.0	60.0
42		-	-	60.0	60.0
47-1/4		-	-	60.0	60.0

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

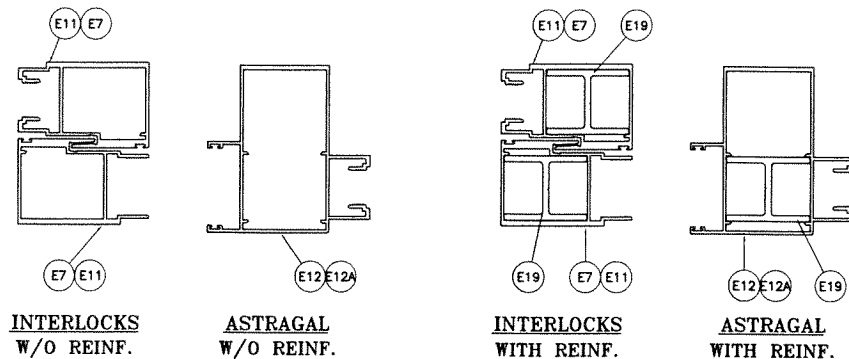
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NOA-No. 23-0714.13
Expiration Date 07/20/2027
By Ishaq I. Chandra
Miami-Dade Product Control



GLAZING OPTIONS

3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

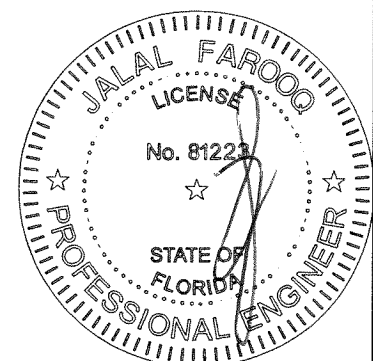
ALL EXT.(+) LOADS SHOWN IN CHART ARE FOR DOOR INSTALLATIONS
WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.
FOR DOOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS
REQUIRED LIMIT EXT.(+) LOADS AS FOLLOWS.
FOR 3-11/16" SILL HEIGHT LIMIT EXT.(+) LOADS TO 80.0 PSF
FOR 3-1/8" SILL HEIGHT LIMIT EXT.(+) LOADS TO 66.6 PSF
FOR 2-3/4" SILL HEIGHT LIMIT EXT.(+) LOADS TO 53.3 PSF
SEE SHEET 14 FOR DETAILS



$$\text{AVERAGE PANEL WIDTH} = \frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

SEE CHART ABOVE FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE AND REINFORCING TYPES.
SEE CHART ON SHEET 6 FOR HEAD ANCHOR CAPACITY.
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.
DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

JUL 07 2023



AL-FAROOQ CORPORATION
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COMP-ANL W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	description
C	06.23.21	NO CHANGE THIS SHEET
D	08.04.21	NO CHANGE THIS SHEET
E	09.06.22	24" WIDTHS ADDED
F	07.06.23	NO CHANGE THIS SHEET

date: 11-28-16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W16-73
sheet 5 of 23

HEAD ANCHOR LOAD CAPACITY - PSF									
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPES 'A' & 'B'						ANCHOR TYPE 'C'	
		1/4" MAX. SHIM		3/8" MAX. SHIM		1/2" MAX. SHIM		3/8" MAX. SHIM	
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	82	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	71.5	80.0	80.0	80.0
47-1/4		80.0	80.0	80.0	80.0	63.6	80.0	80.0	80.0
48		80.0	80.0	80.0	80.0	62.6	80.0	80.0	80.0
54		80.0	80.0	71.6	80.0	55.6	74.2	72.7	80.0
60		72.7	80.0	64.4	80.0	50.1	66.8	65.4	80.0
24	84	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	69.8	80.0	80.0	80.0
47-1/4		80.0	80.0	79.8	80.0	62.1	80.0	80.0	80.0
48		80.0	80.0	78.6	80.0	61.1	80.0	79.8	80.0
54		78.9	80.0	69.9	80.0	54.3	72.4	71.0	80.0
60		71.0	80.0	62.9	80.0	48.9	65.2	63.9	80.0
24	90	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	76.1	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	65.2	80.0	80.0	80.0
47-1/4		80.0	80.0	74.5	80.0	57.9	77.3	75.7	80.0
48		80.0	80.0	73.4	80.0	57.0	76.1	74.5	80.0
54		73.6	80.0	65.2	80.0	50.7	67.6	66.2	80.0
24	96	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	71.3	80.0	80.0	80.0
42		80.0	80.0	78.6	80.0	61.1	80.0	79.8	80.0
47-1/4		78.9	80.0	69.9	80.0	54.3	72.4	71.0	80.0
48		60.0	60.0	60.0	60.0	53.5	60.0	60.0	60.0
24	102	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42		60.0	60.0	60.0	60.0	57.5	60.0	60.0	60.0
47-1/4		60.0	60.0	60.0	60.0	51.1	60.0	60.0	60.0
48		60.0	60.0	60.0	60.0	50.3	60.0	60.0	60.0
24	108	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42		60.0	60.0	60.0	60.0	54.3	60.0	60.0	60.0
47-1/4		60.0	60.0	60.0	60.0	48.3	60.0	60.0	60.0

SEE CHART ON SHEET 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.

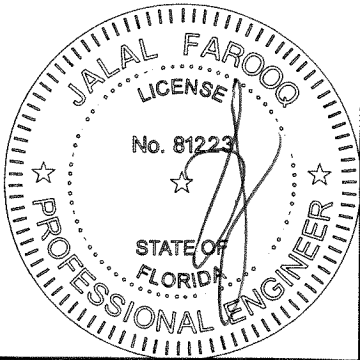
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.


DOOR HEIGHT AND WIDTH SIZE MUST COMPLY EGRESS REQUIREMENTS PER FBC AS REQUIRED.

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By Ishaq I. Chande
Miami-Dade Product Control



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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

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revisions:

no	date	by	description
C	06.23.21		NO CHANGE THIS SHEET
D	06.04.21		NO CHANGE THIS SHEET
E	06.06.22		24" WIDTHS ADDED
F	07.06.23		NO CHANGE THIS SHEET

date: 11-28-16

scale: -

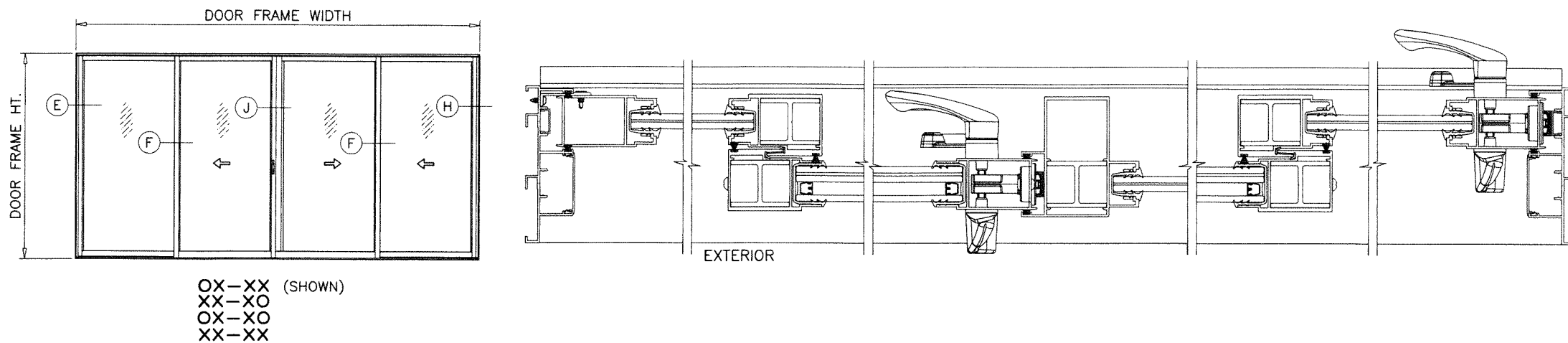
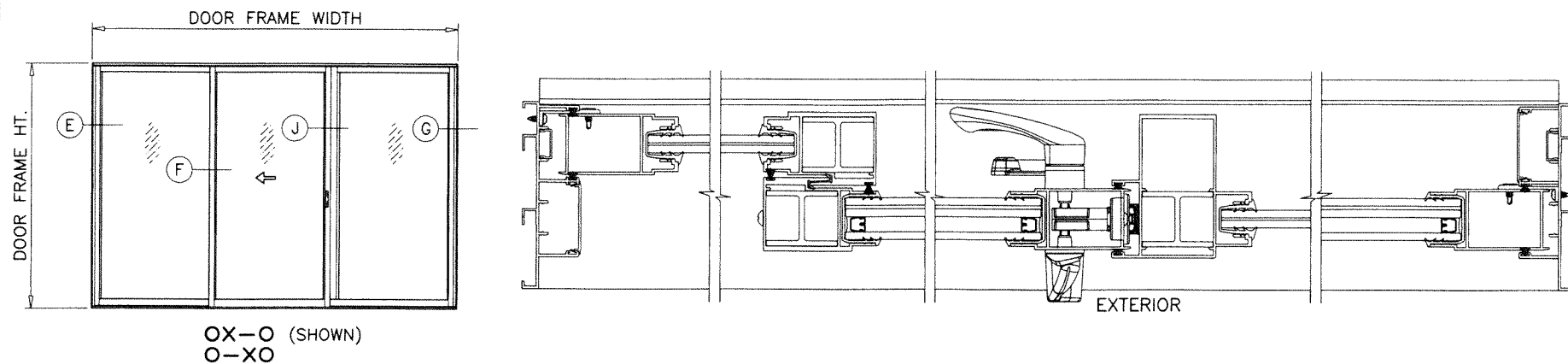
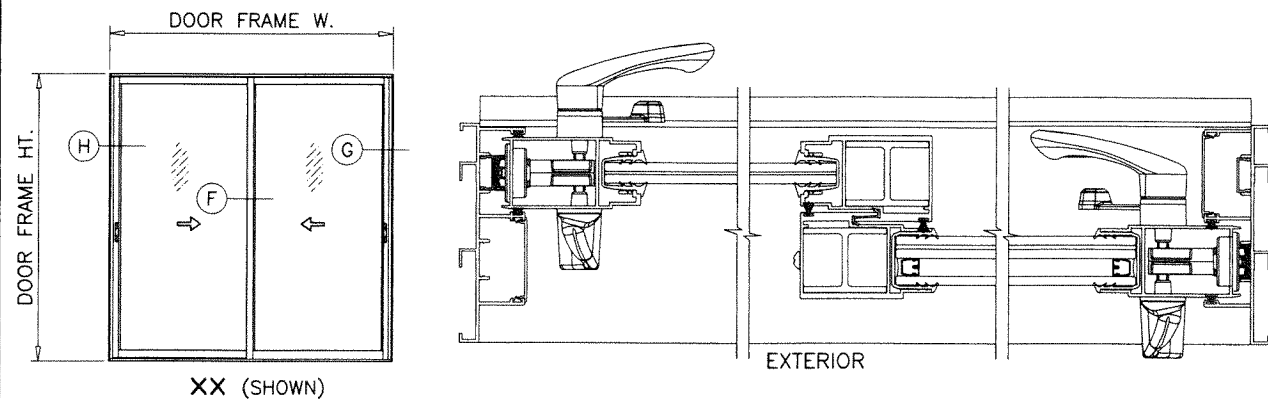
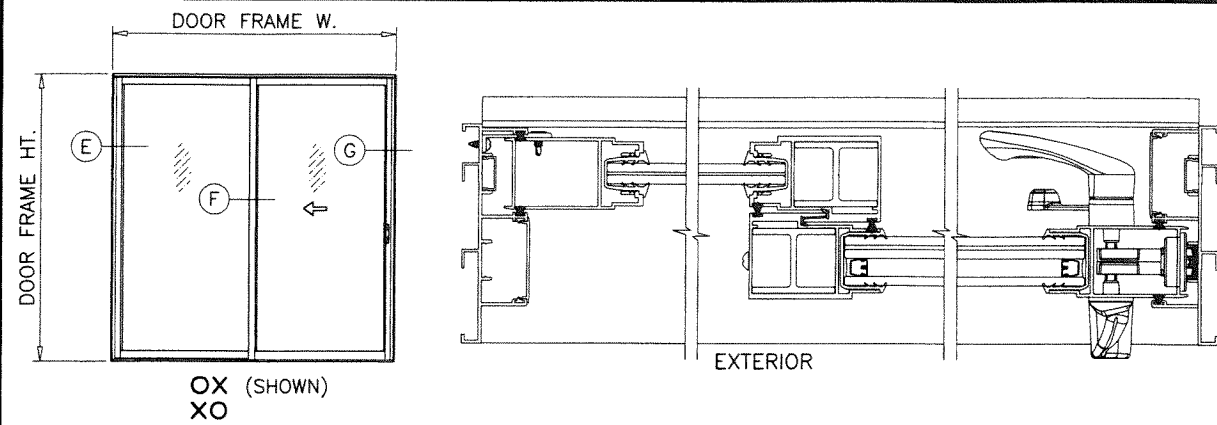
dr. by: TARIQ

chk. by:

drawing no.
W16-73

sheet 6 of 23

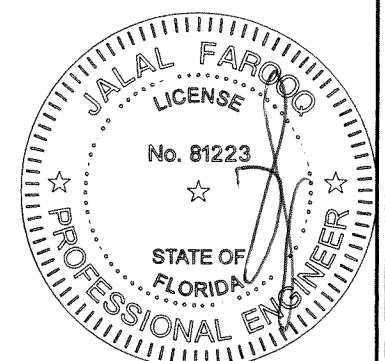
COMP-ANL\W16-73ES



APPROVED CONFIGURATIONS
NON-POCKETED DOORS
TWO (2) TRACKS

PRODUCT REVISED
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By Ishag I. Chande
Miami-Dade Product Control

- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
 3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.



JUL 07 2023

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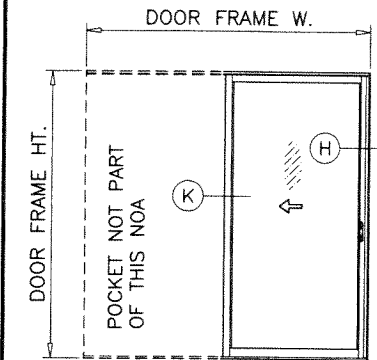
COMP-ANL W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

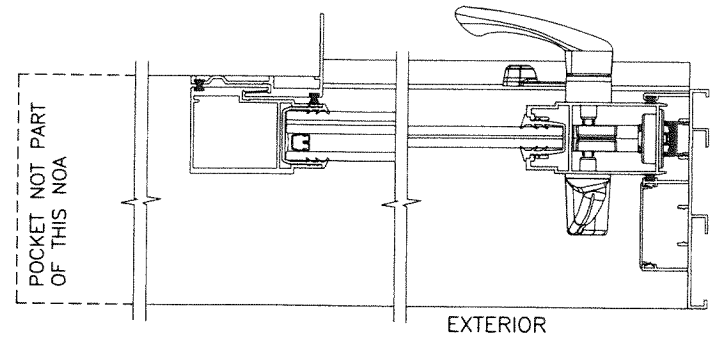
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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E	09.06.22				NO CHANGE THIS SHEET
F	07.06.23				NO CHANGE THIS SHEET

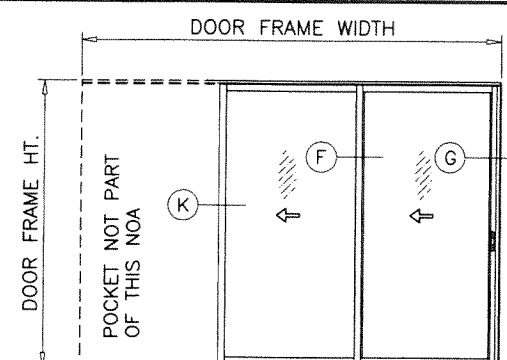
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				sheet 7 of 23



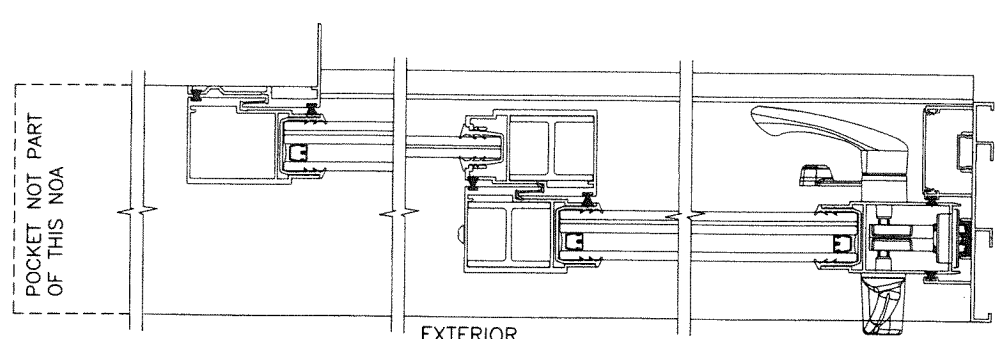
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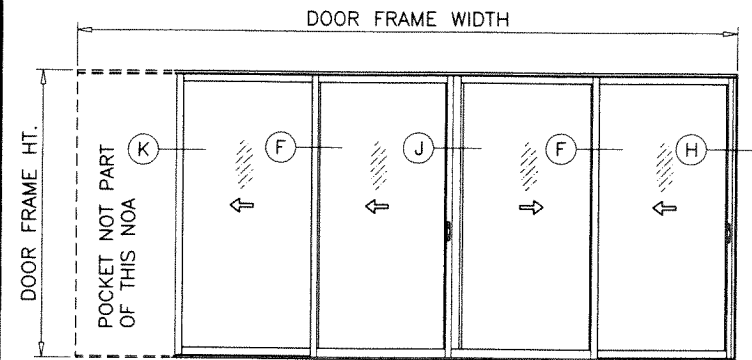
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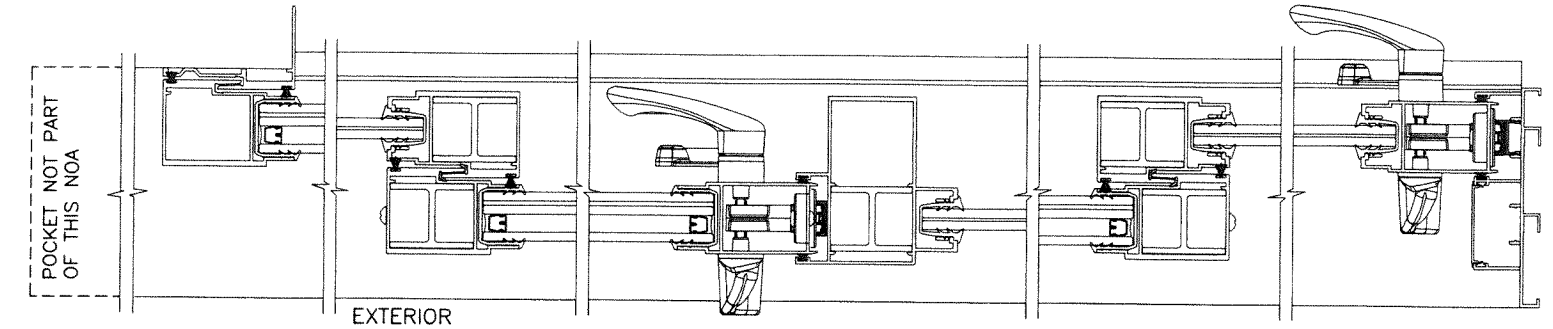
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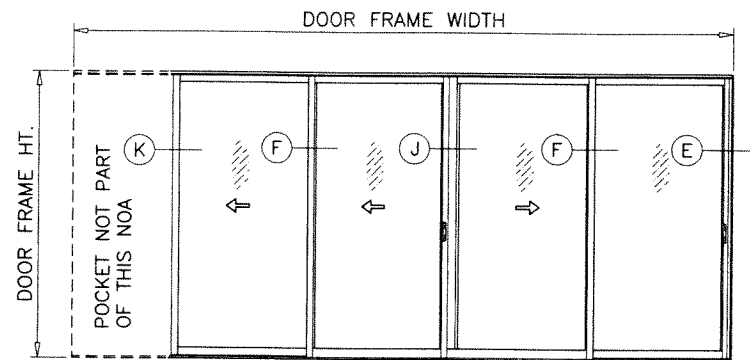
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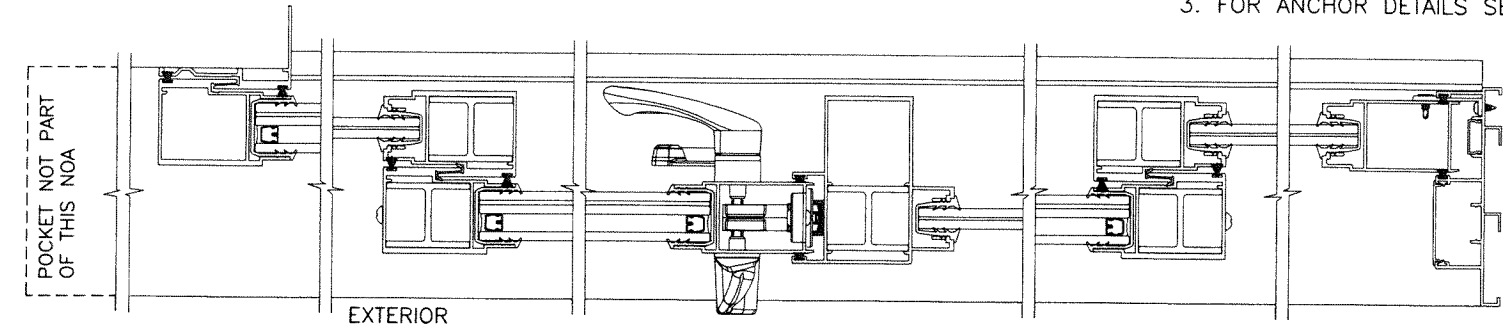
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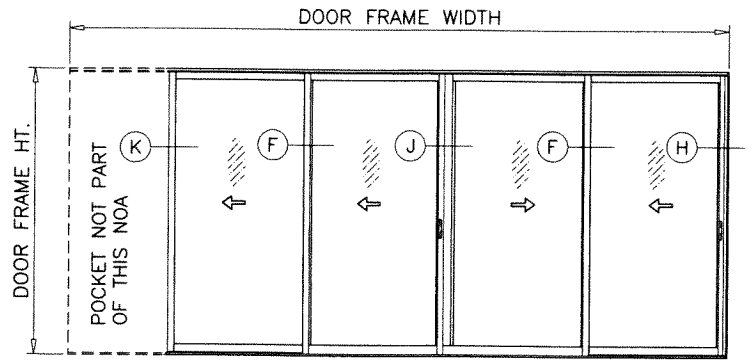
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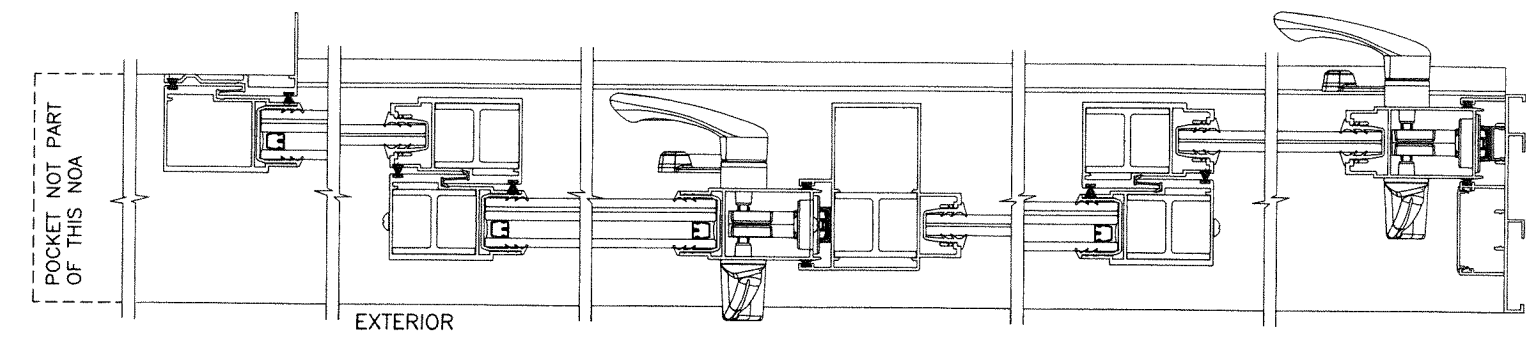
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OX-XXP



EXTERIOR



PXX-XX (SHOWN)
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PXX-XXP



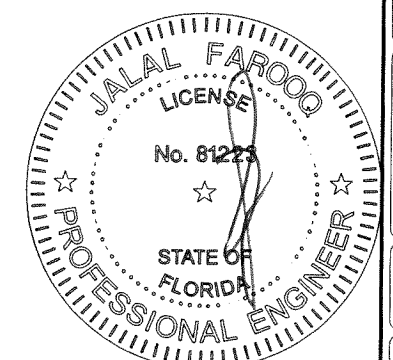
EXTERIOR

- NOTE:
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By Ismael I. Chanda
Miami-Dade Product Control



JUL 07 2023

APPROVED CONFIGURATIONS
POCKETED DOORS
TWO (2) TRACKS

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ENGINEERS & PRODUCT DEVELOPMENT
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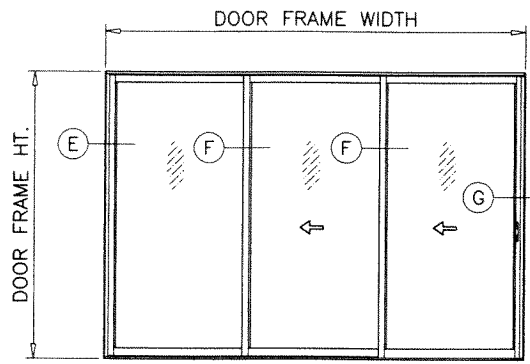
COMP-ANL W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

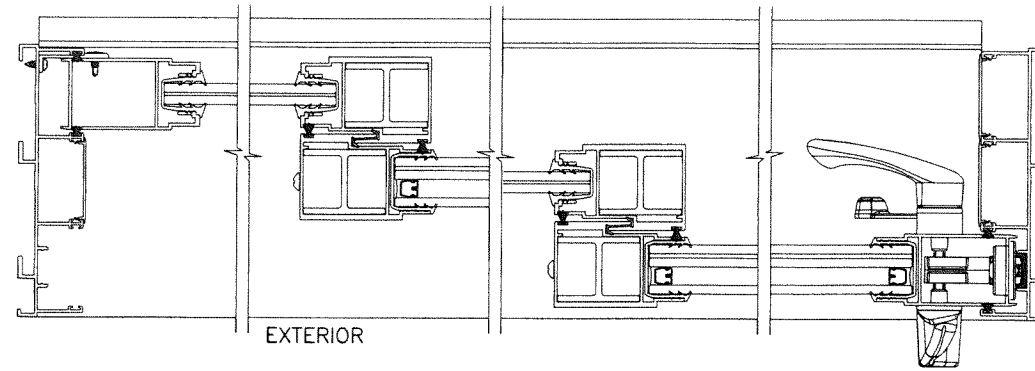
E.S. WINDOWS, LLC
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revisions:	
no	description
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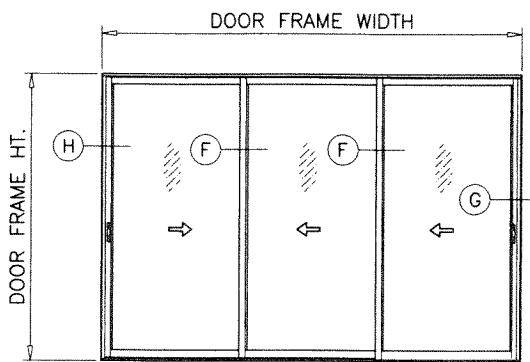
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				sheet 8 of 23



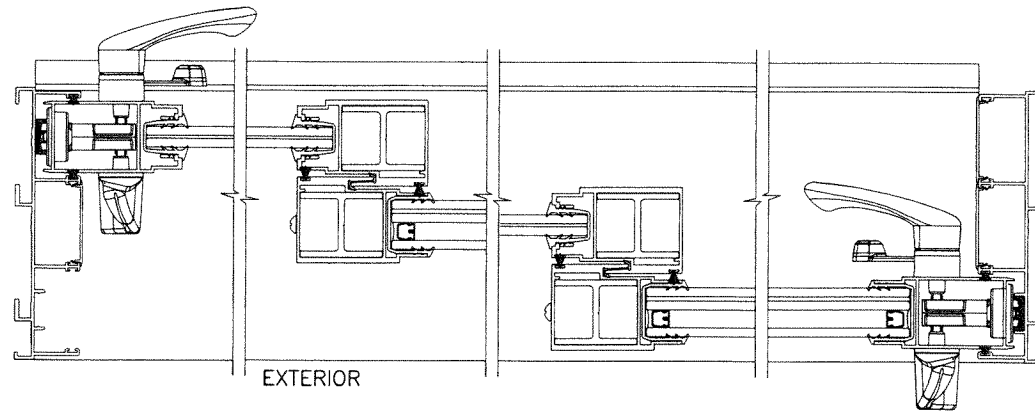
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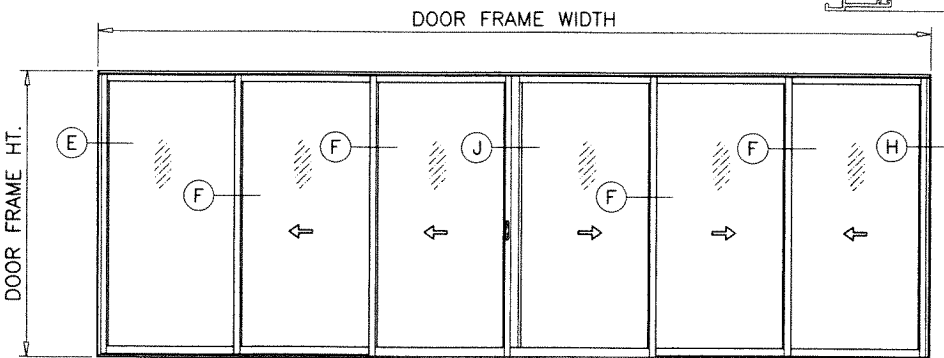
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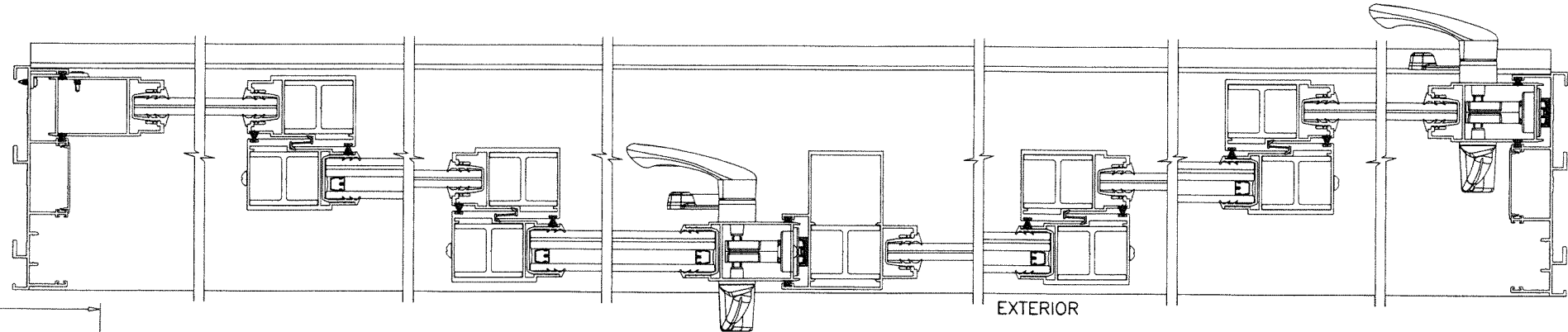
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EXTERIOR



XXX-XXX (SHOWN)
XXX-XXO
XXX-XXO
XXX-XXX



EXTERIOR

NOTE:

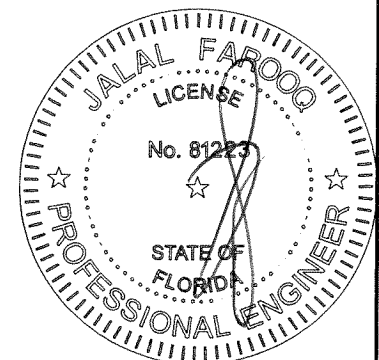
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Miami-Dade Product Control

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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W16-73ES

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E.S. WINDOWS, LLC
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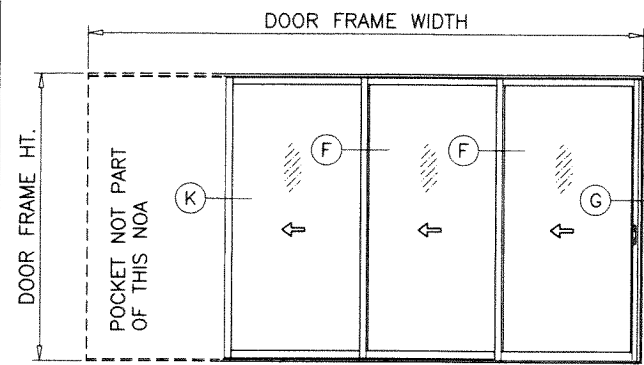
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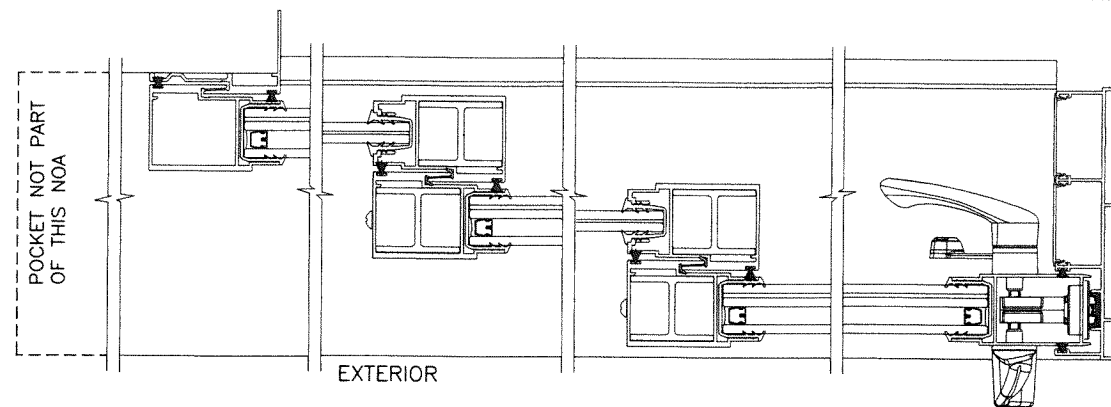
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drawing no.
W16-73
sheet 9 of 23

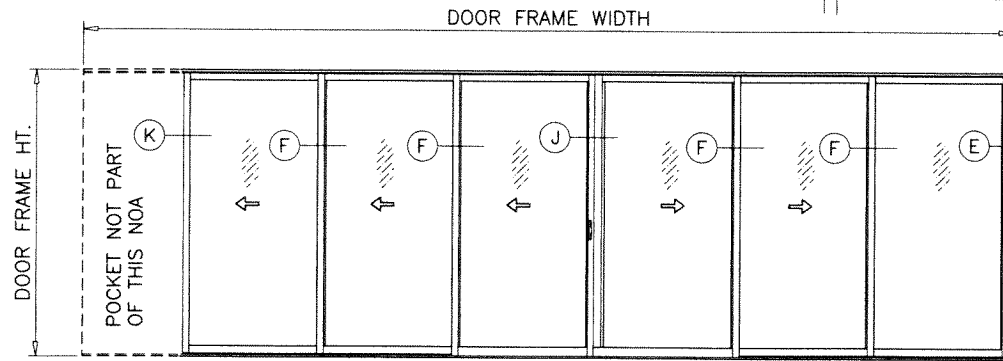
APPROVED CONFIGURATIONS
NON-POCKETED DOORS
THREE (3) TRACKS



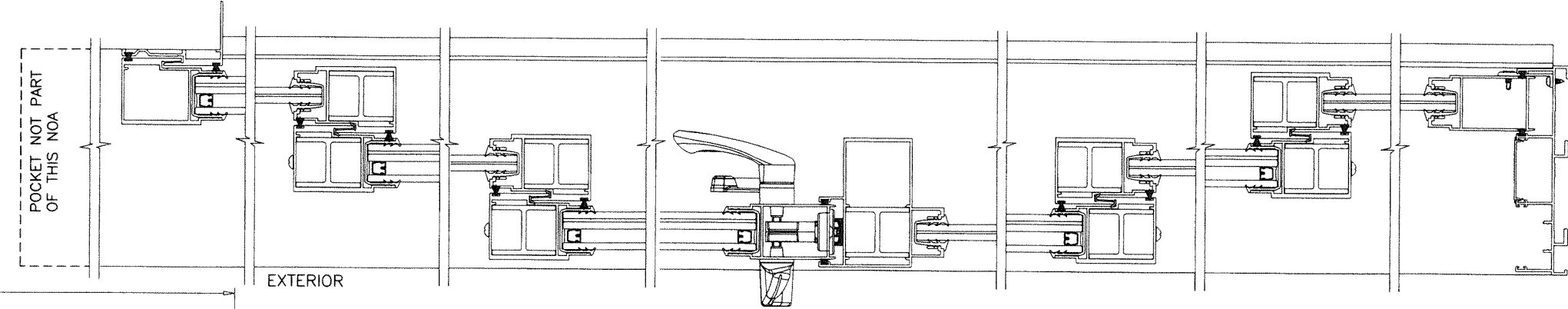
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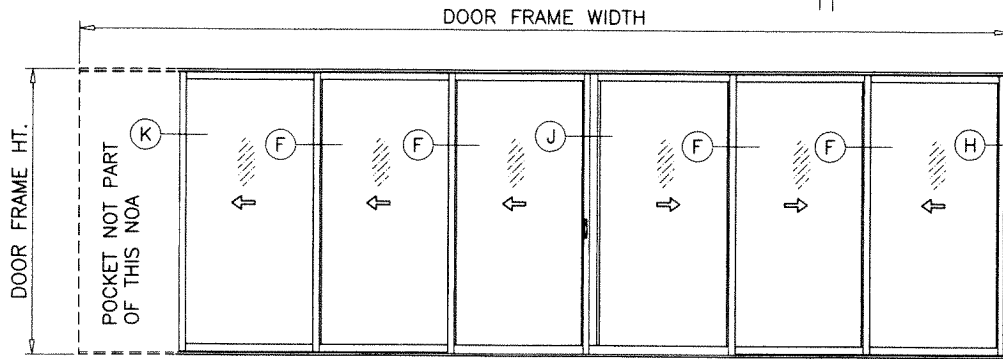
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 2. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEET 5.
 3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.



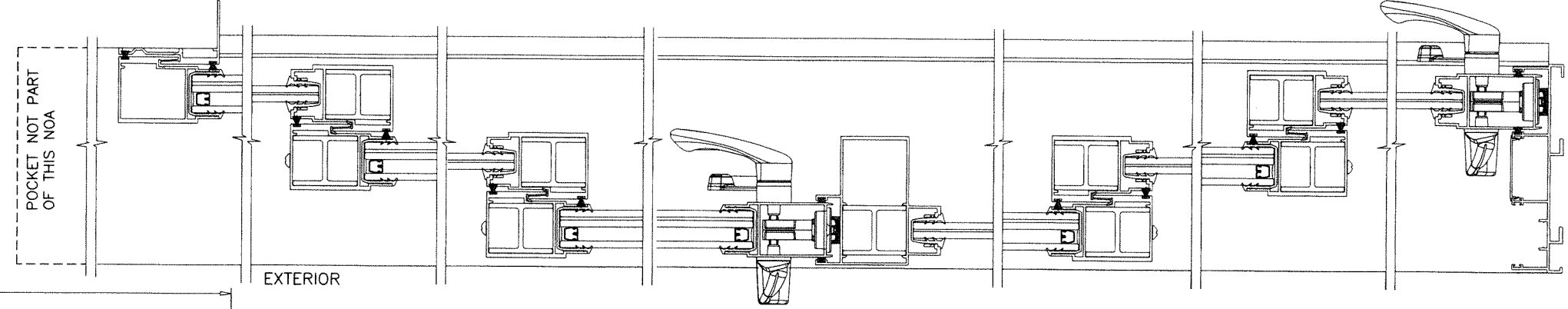
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as complying with the Florida
Building Code
NOA-No. 23-0714.13
Expiration Date 07/20/2027
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Miami-Dade Product Control

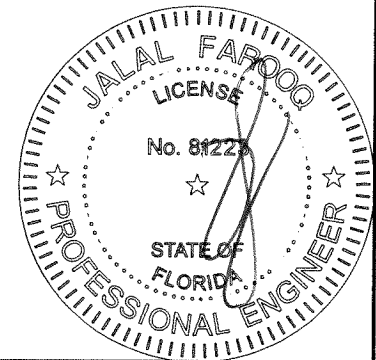


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APPROVED CONFIGURATIONS
POCKETED DOORS
THREE (3) TRACKS

JUL 07 2020



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W16-73ES

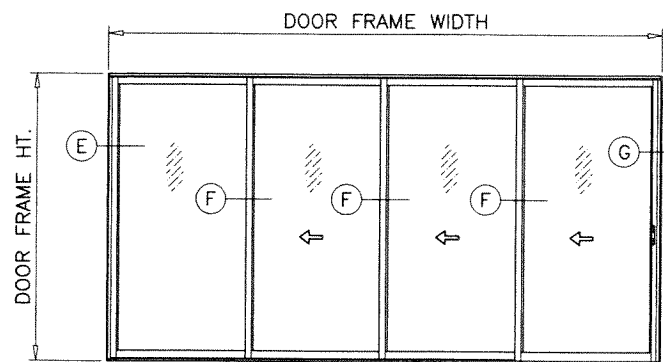
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

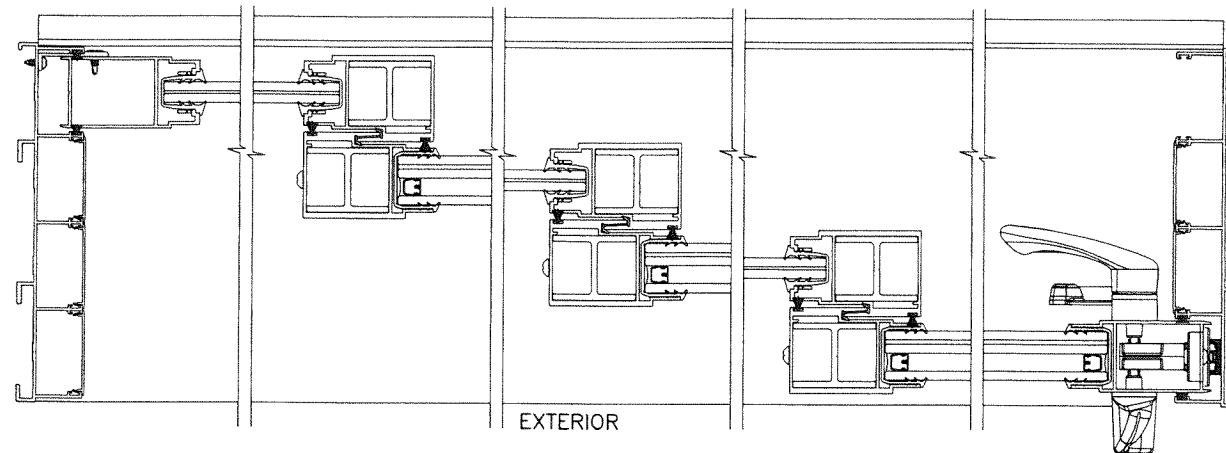
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scale: -
dr. by: TARIO
chk. by:

drawing no.
W16-73
sheet 10 of 23

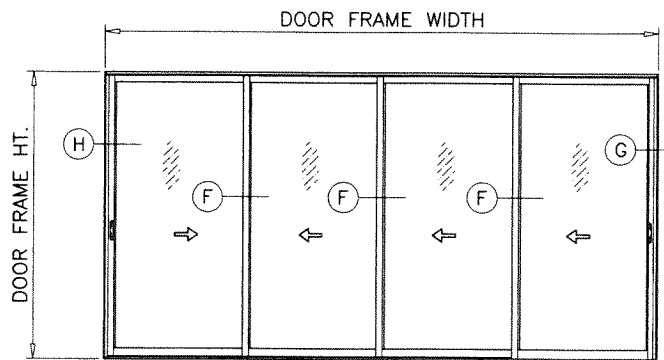


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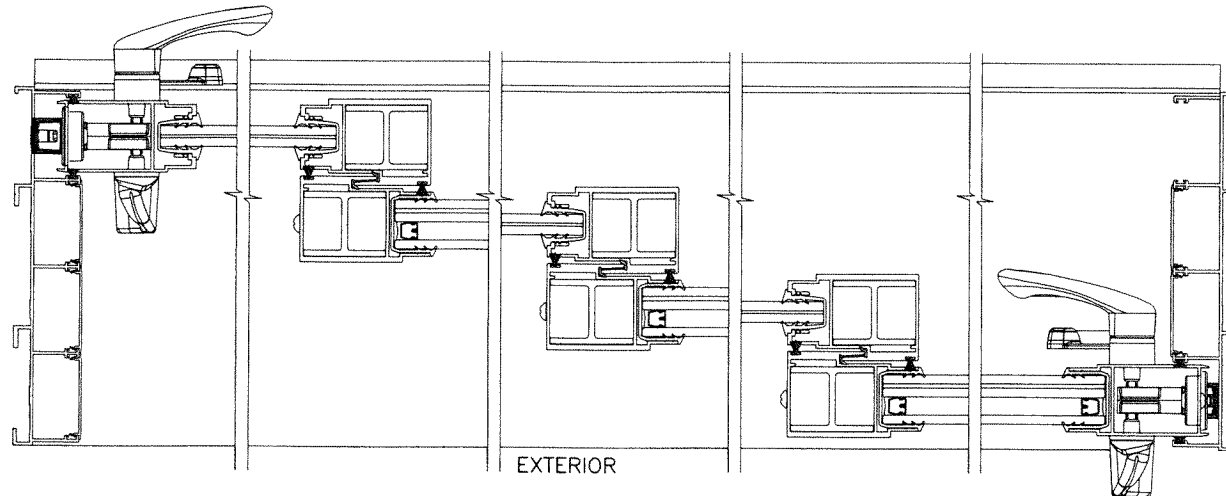


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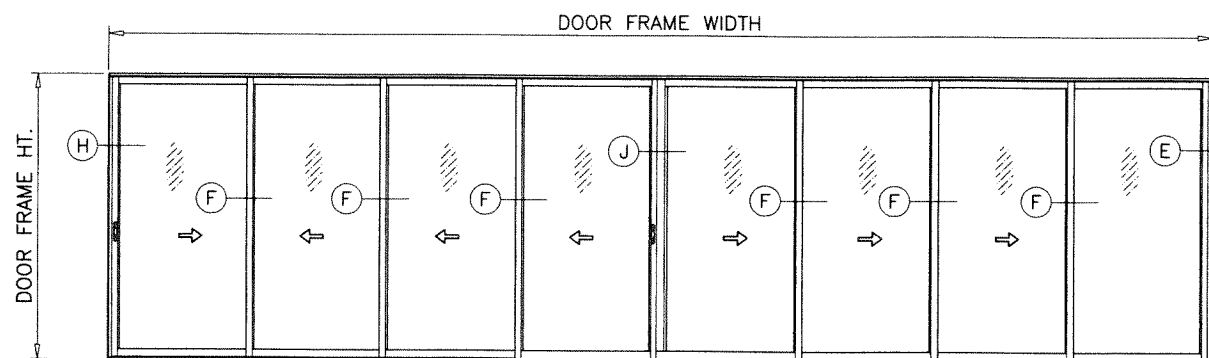
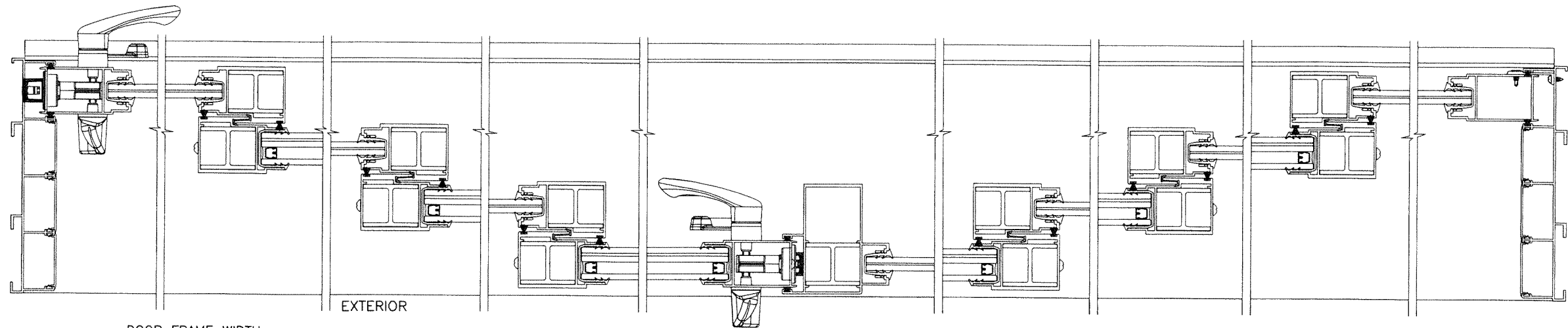
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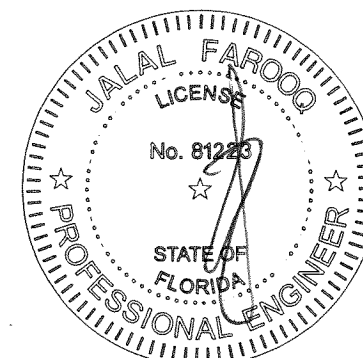
By Ishag I. Chande
Miami-Dade Product Control



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APPROVED CONFIGURATIONS
NON-POCKETED DOORS
FOUR (4) TRACKS

JUL 07 2023



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W16-73ES

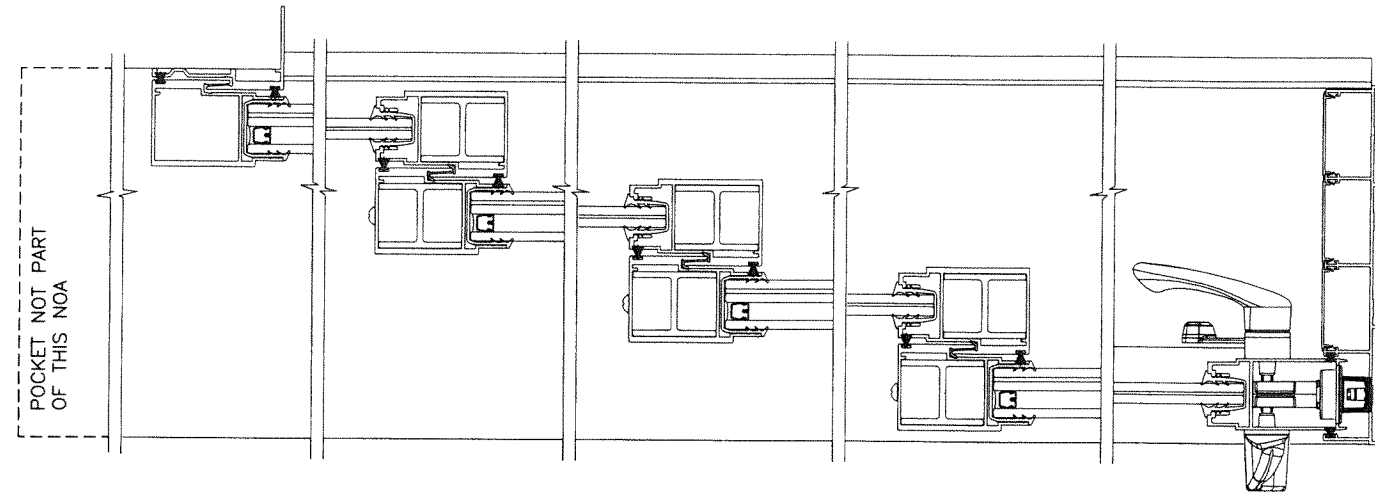
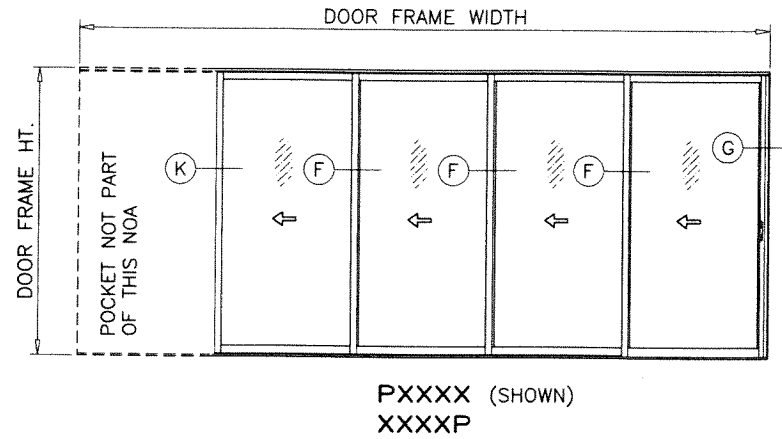
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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dr. by:	TARIQ
chk. by:	

drawing no.	W16-73
sheet	11 of 23



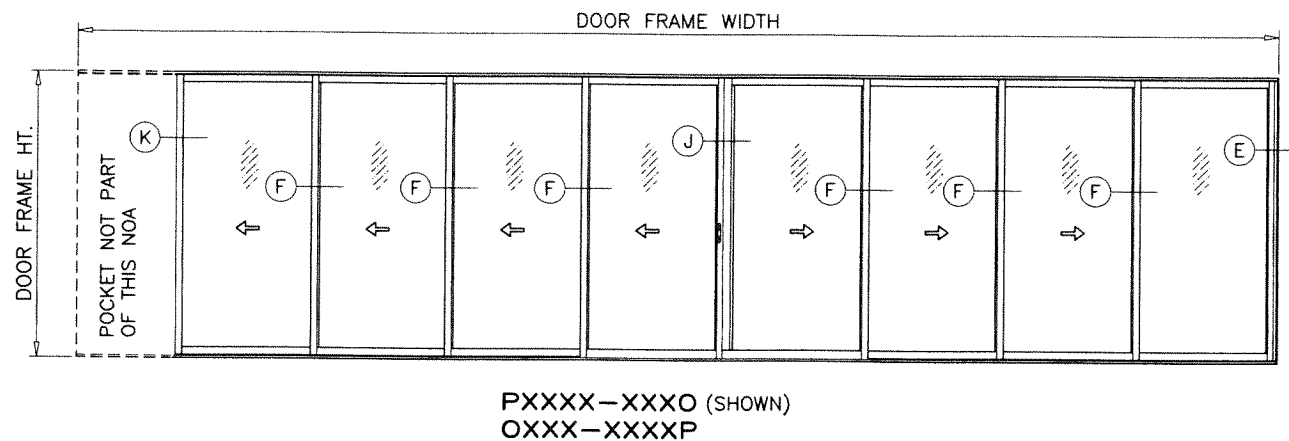
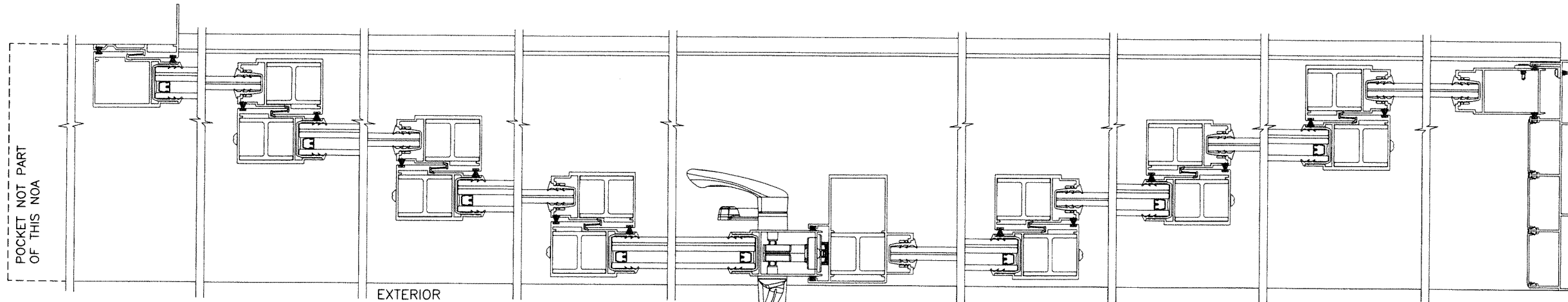
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Expiration Date 07/20/2027

By *Ishag I. Chande*
Miami-Dade Product Control

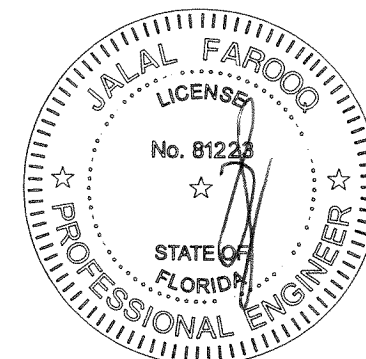
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APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

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COMP-ANL W16-73ES

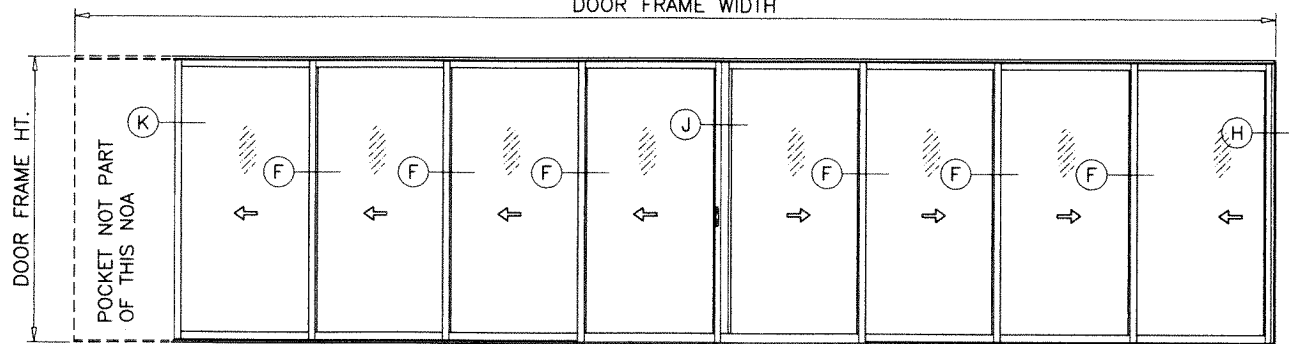
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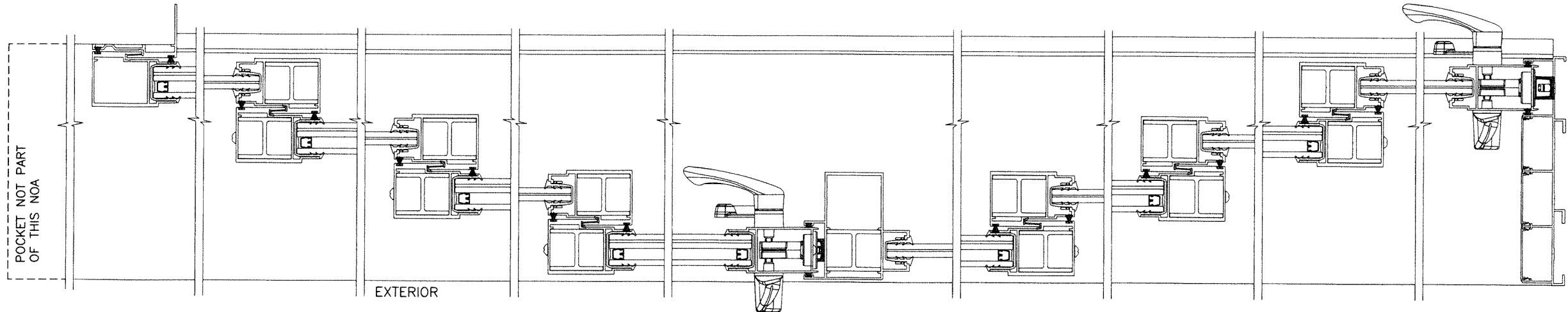
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drawing no.	W16-73
sheet 12 of 23	

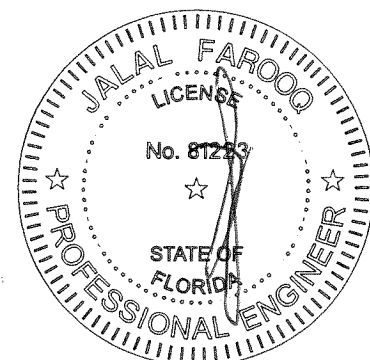


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APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

JUL 07 2023



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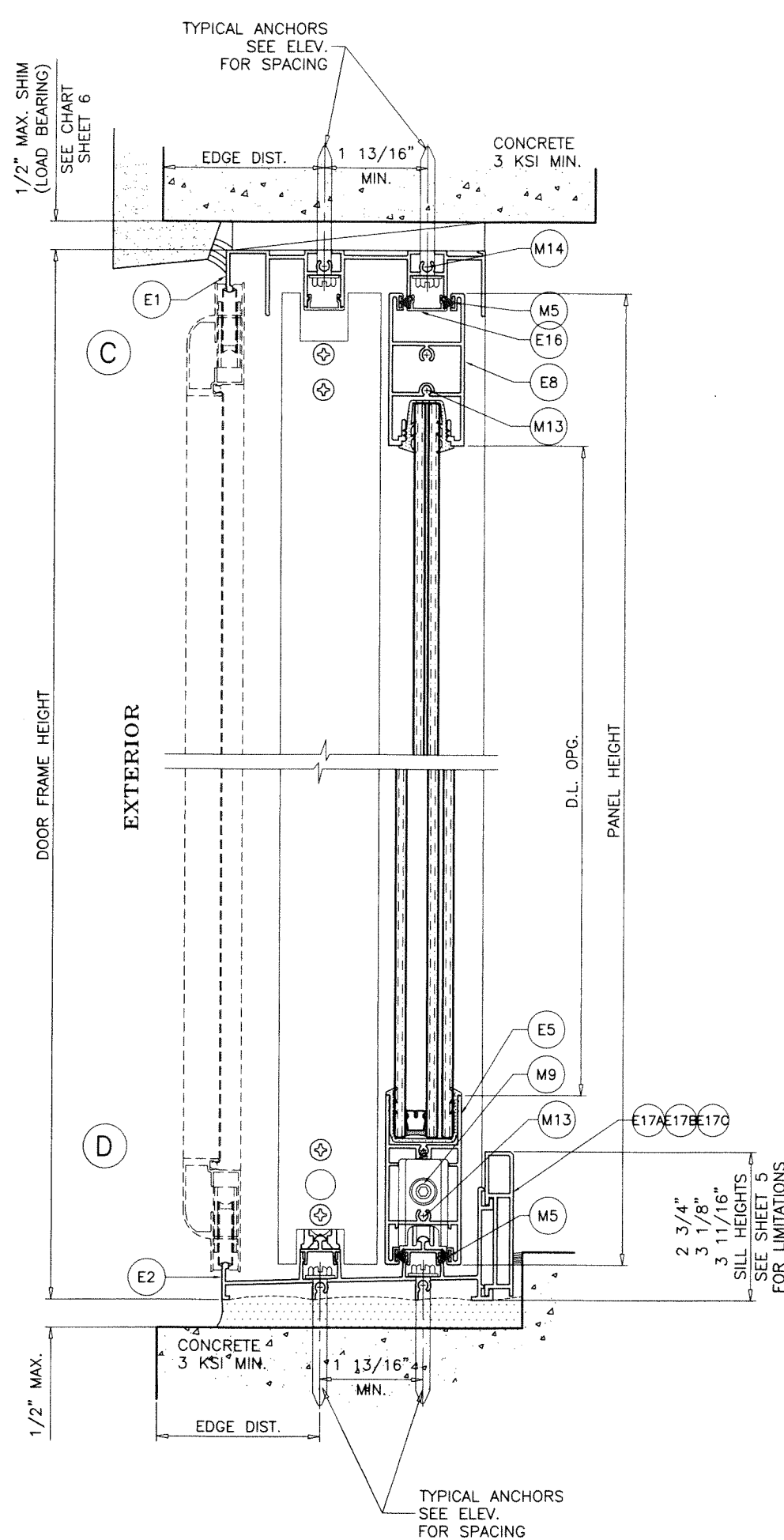
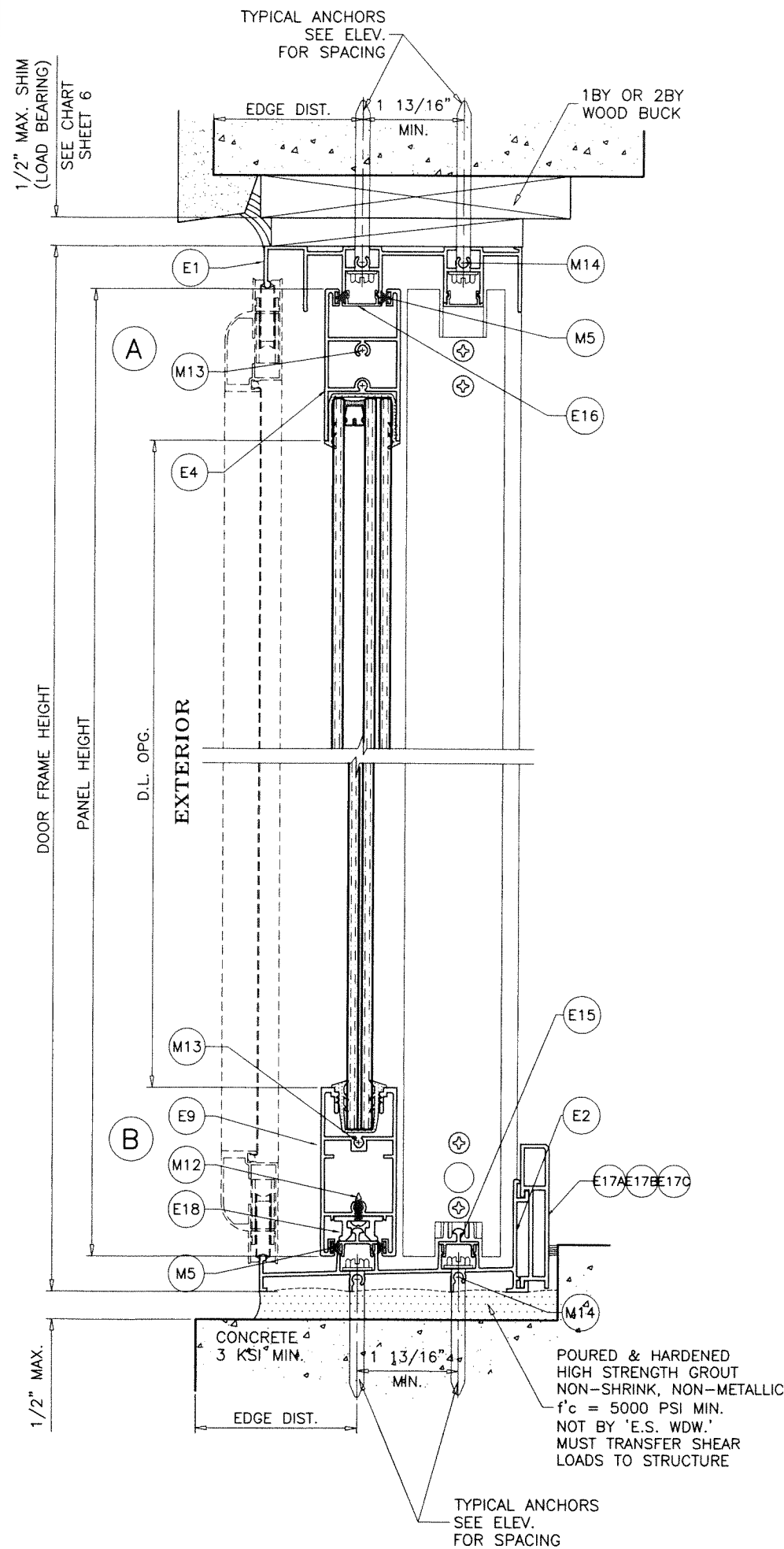
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)
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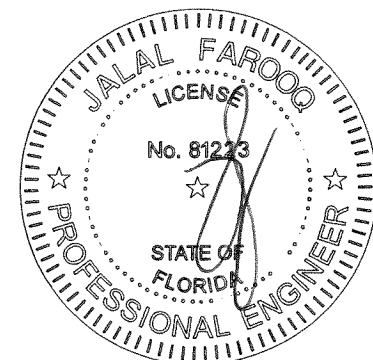
drawing no.	W16-73
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Miami-Dade Product Control

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ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)
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date: 11-28-16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. **W16-73**
sheet 14 of 23

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

- TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
THRU 2BY BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
- TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
- TYPE 'C' - 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

- TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

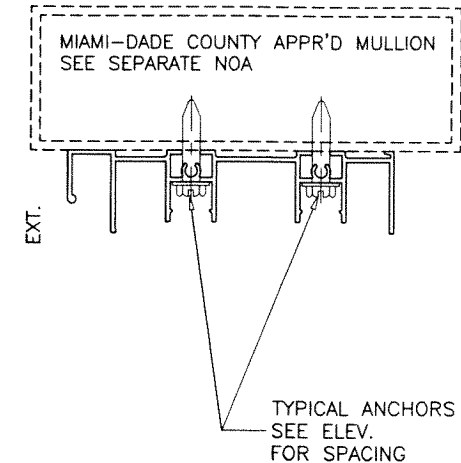
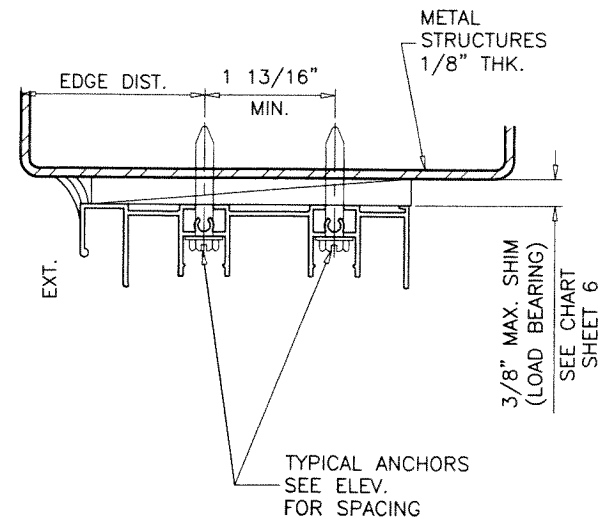
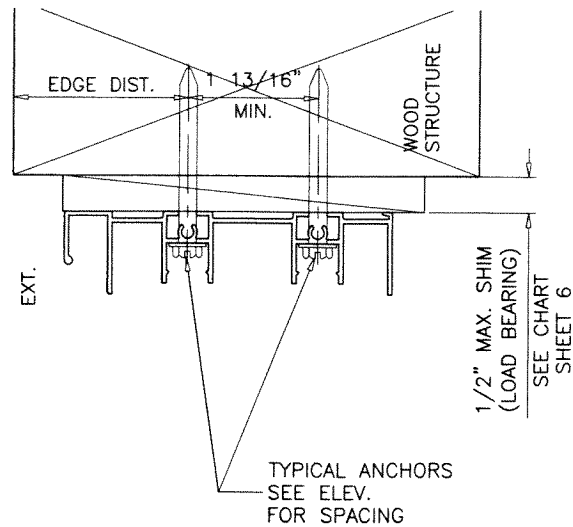
AT JAMBS

- TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY BUCKS INTO CONC. OR FILLED BLOCK
1-1/4" MIN. EMBED INTO CONCRETE
1-1/2" MIN. EMBED INTO FILLED BLOCKS
- TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
2" MIN. EMBED INTO CONCRETE
2" MIN. EMBED INTO GROUT FILLED BLOCKS
- TYPE 'C' - 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN. (UNLESS SPECIFIED OTHERWISE)
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

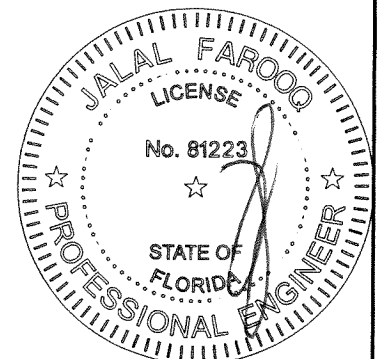


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By Ishag I. Chande
Miami-Dade Product Control

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.



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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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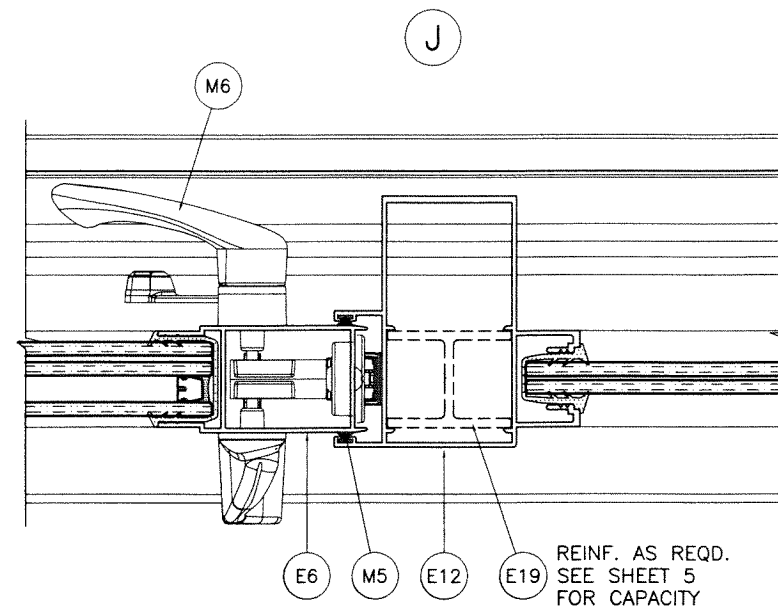
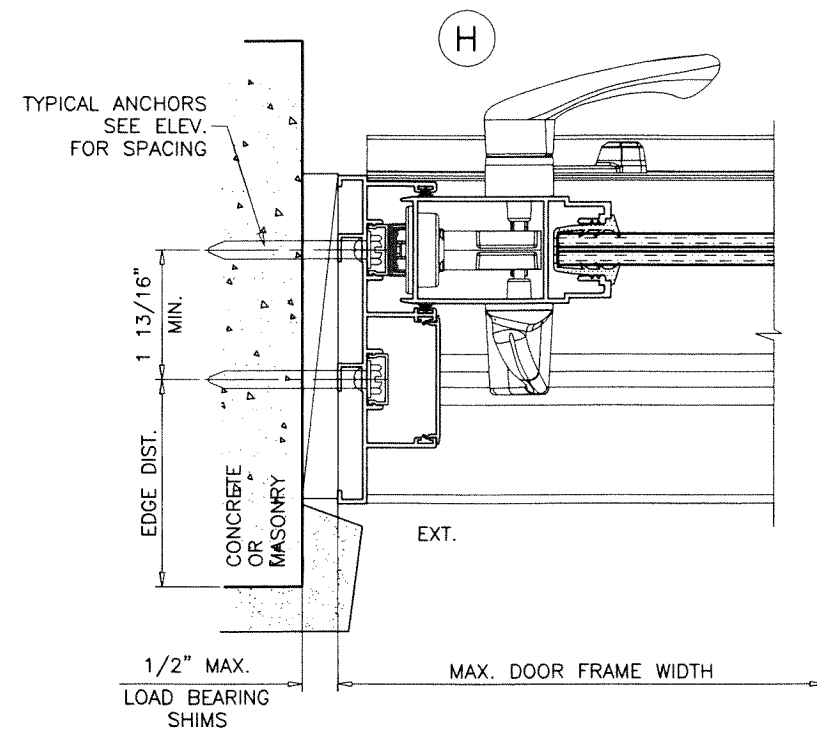
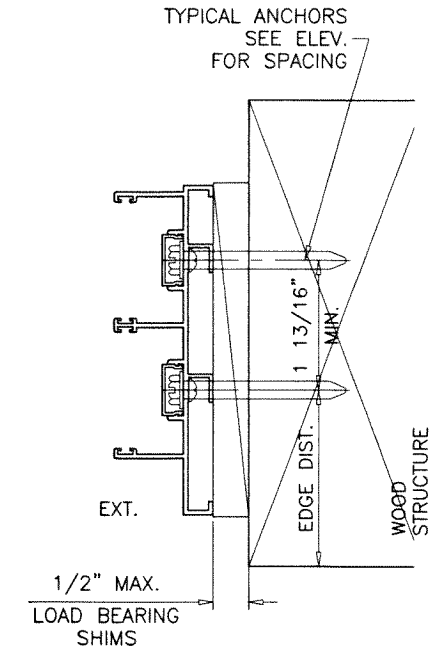
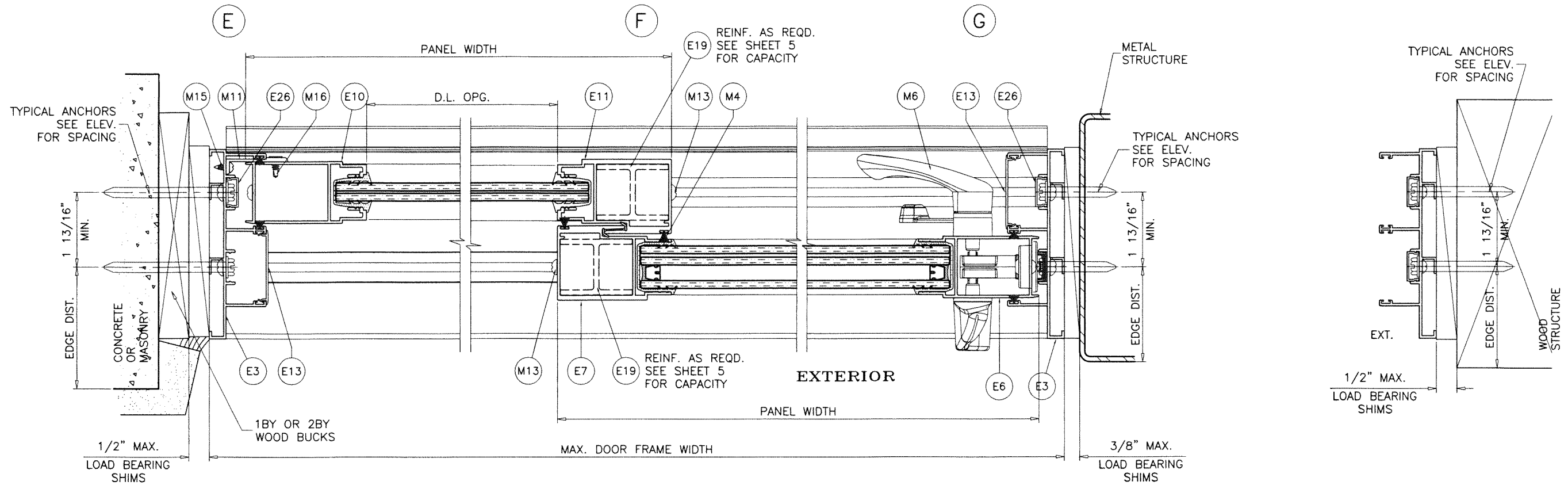
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chk. by:

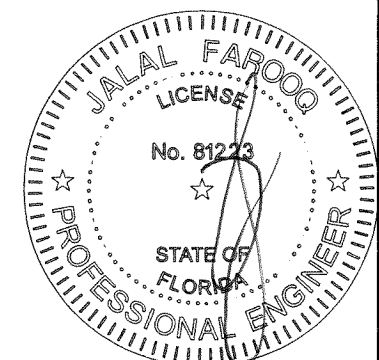
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W16-73

sheet 15 of 23



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Miami-Dade Product Control



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drawing no.
W16-73
sheet 16 of 23

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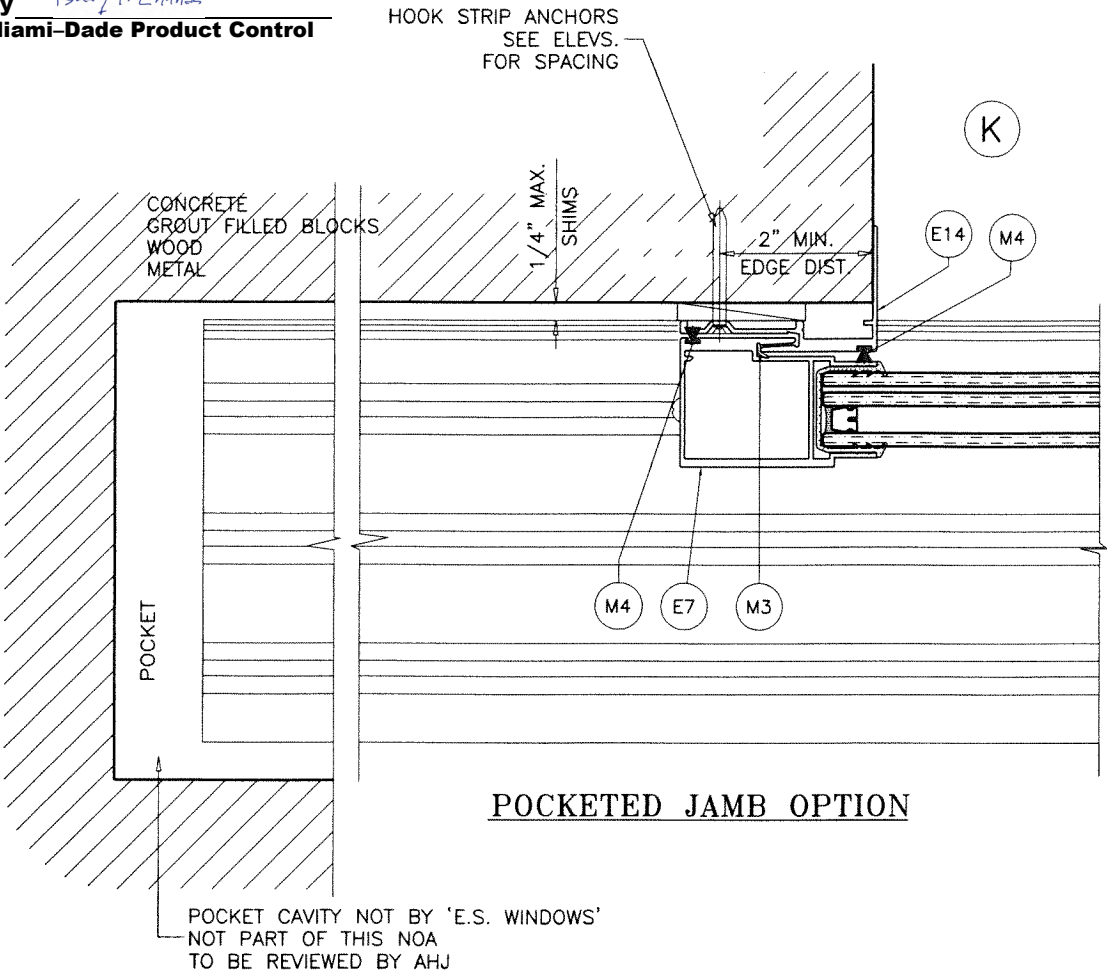
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11-28-16

3/8" = 1"

TARIQ

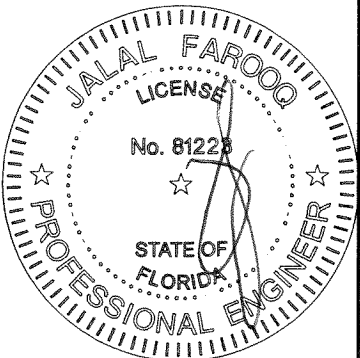
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Miami-Dade Product Control



HOOK STRIP ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS
#14 SMS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

JUL 07 2023



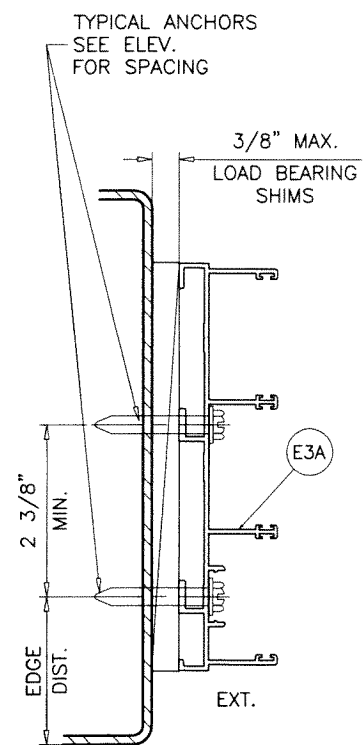
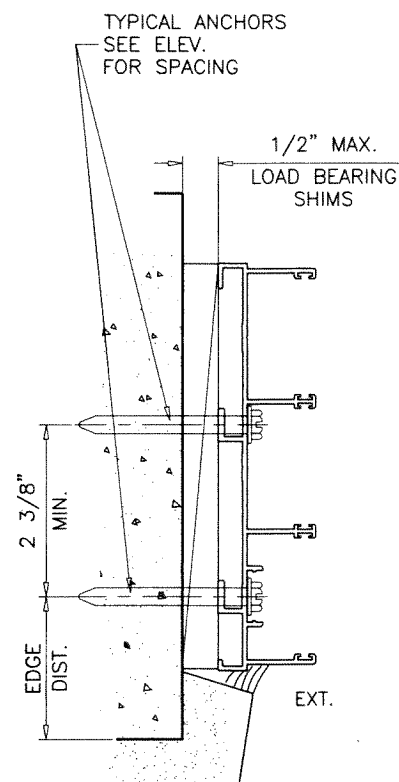
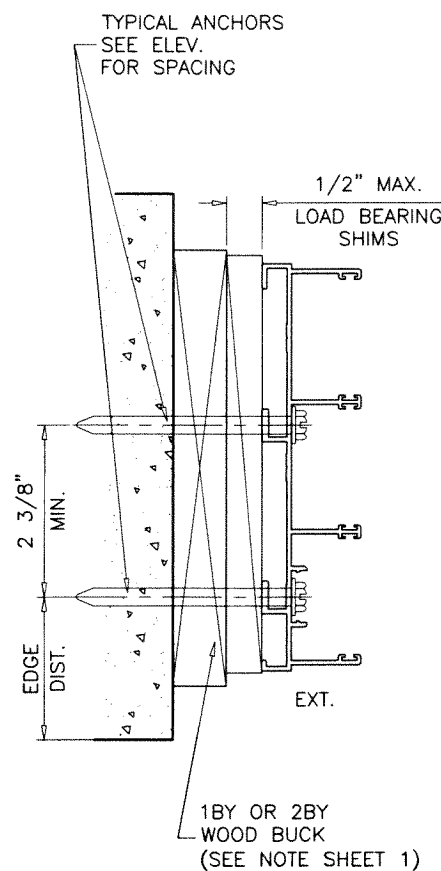
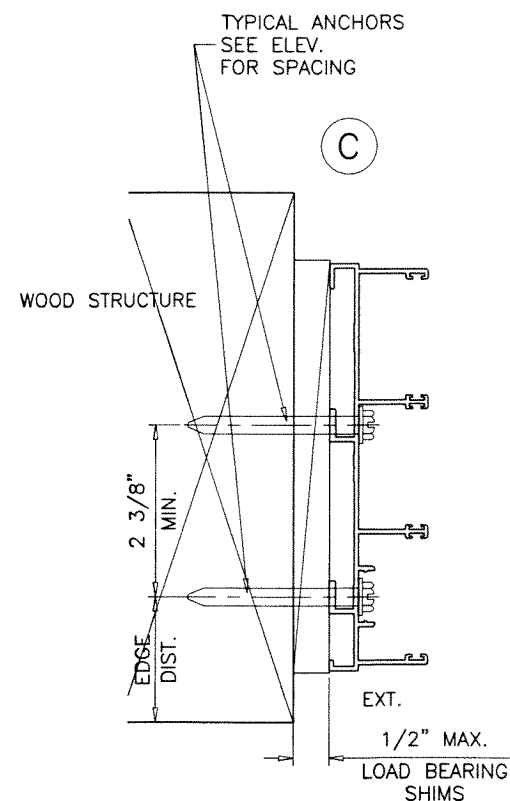
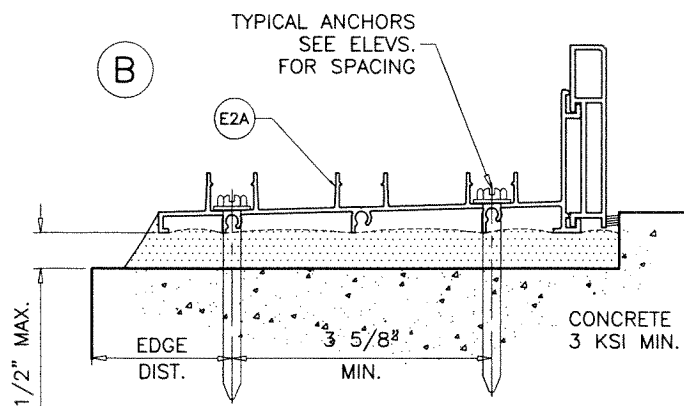
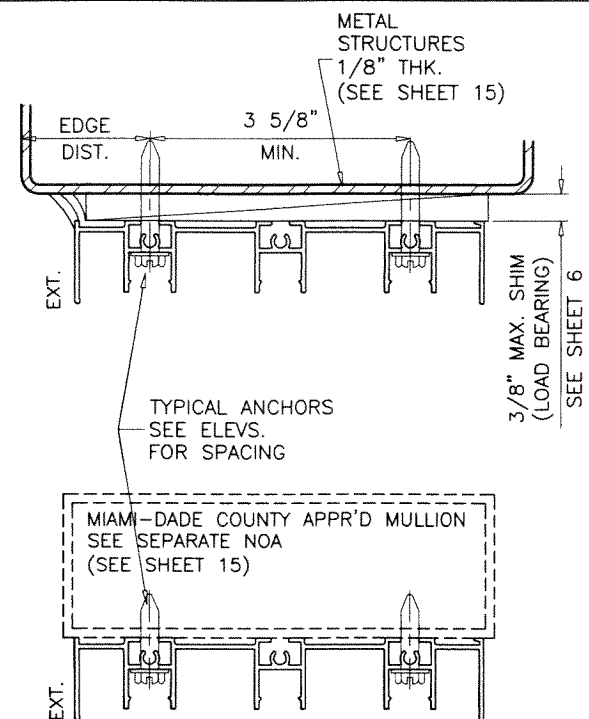
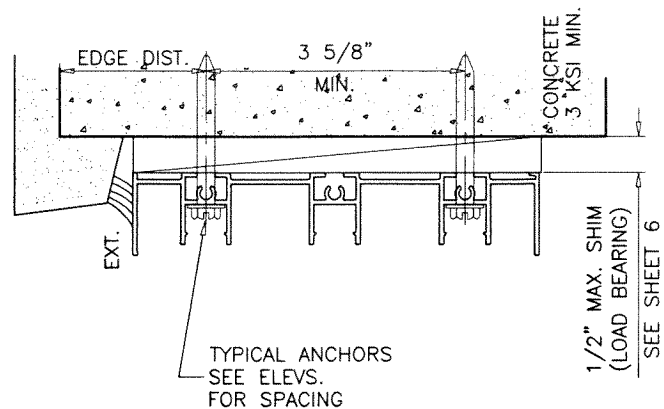
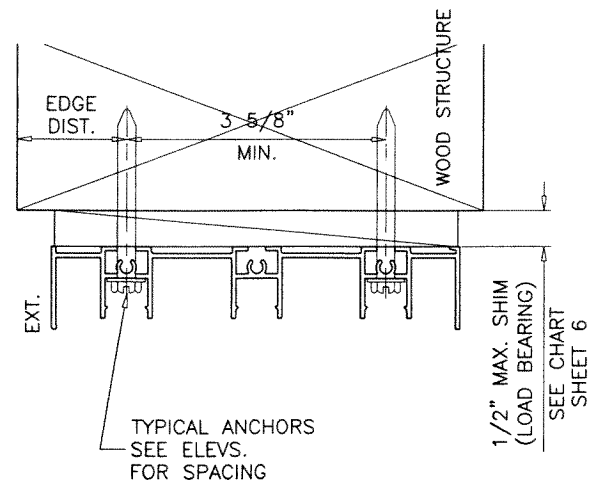
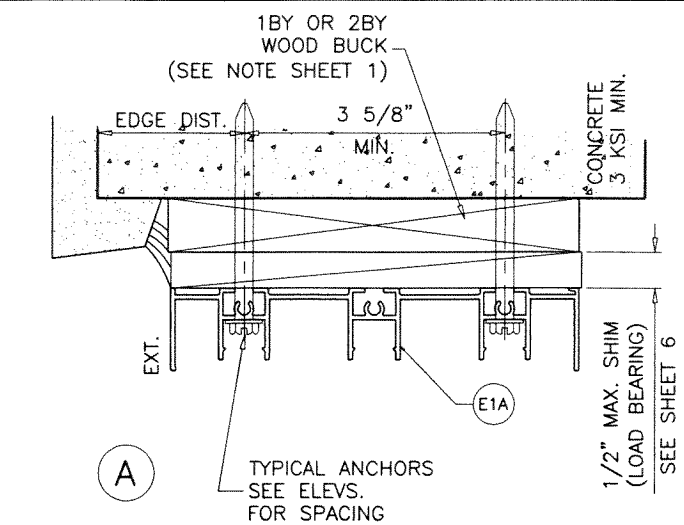
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ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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no	date	no	description
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dr. by:	TARIQ
chk. by:	

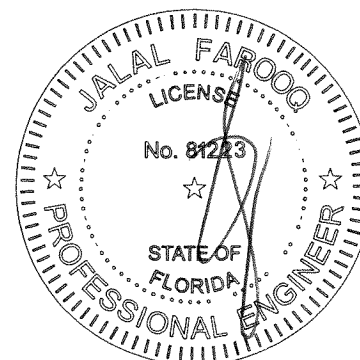
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By Ishaq I. Chande
Miami-Dade Product Control

3 TRACK FRAMES ANCHOR LOCATIONS

JUL 07 2023



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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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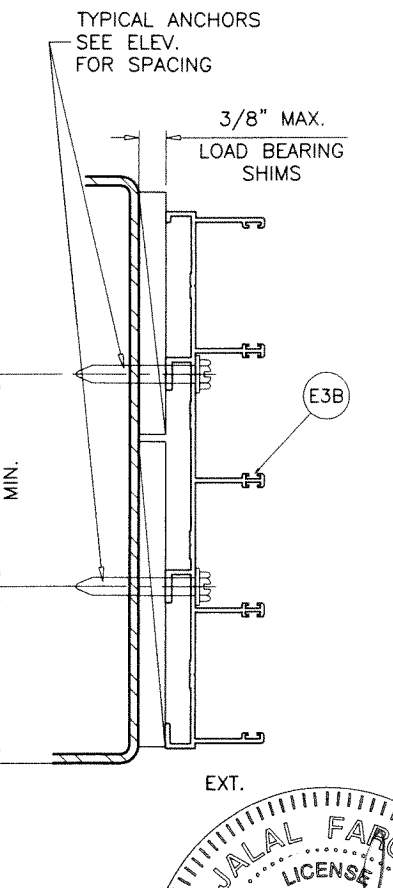
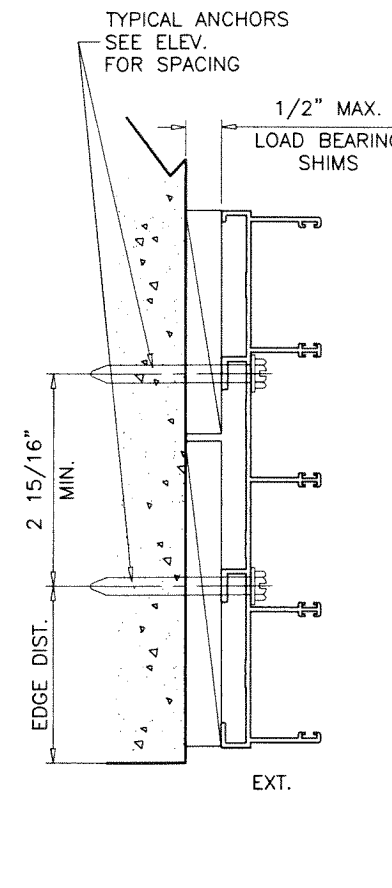
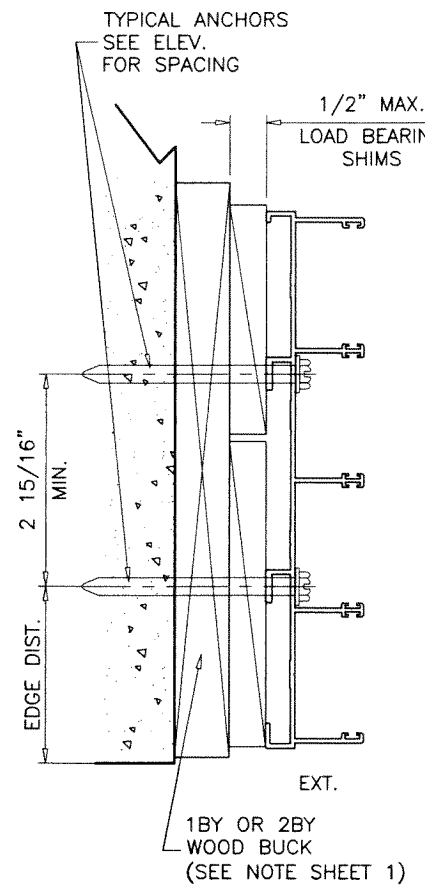
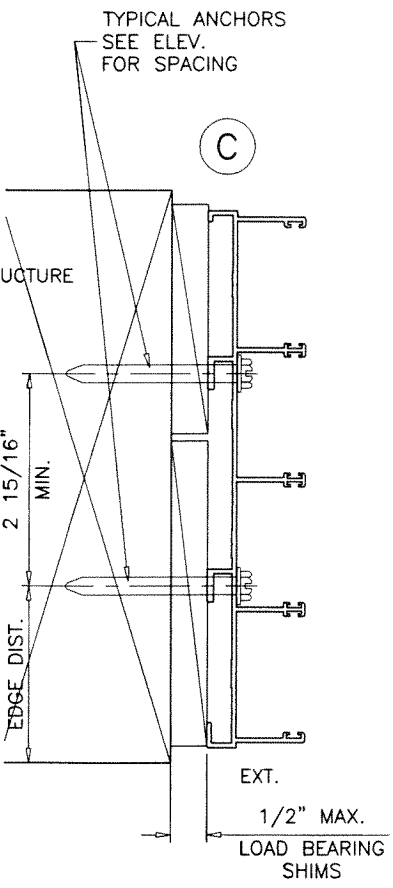
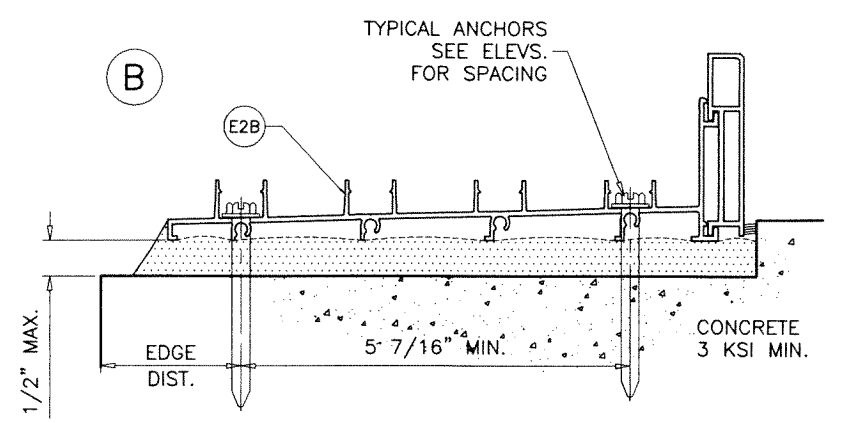
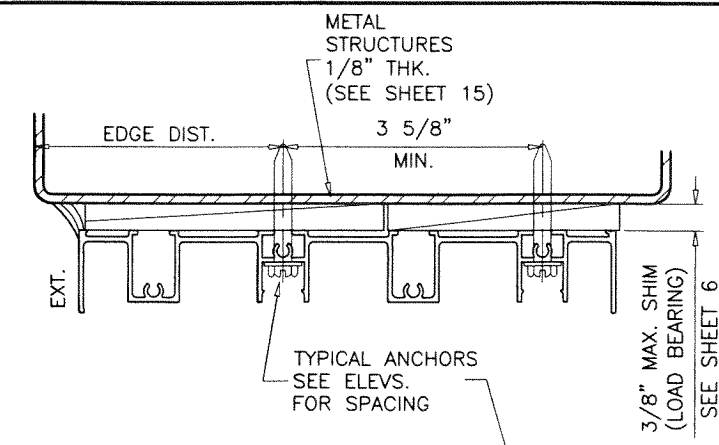
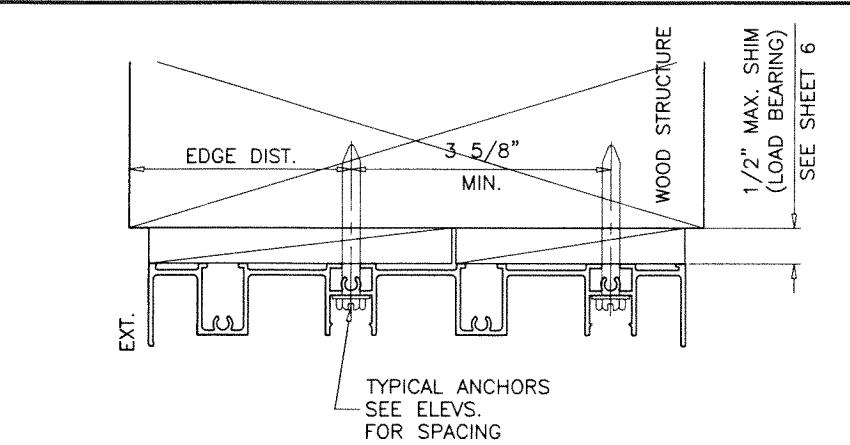
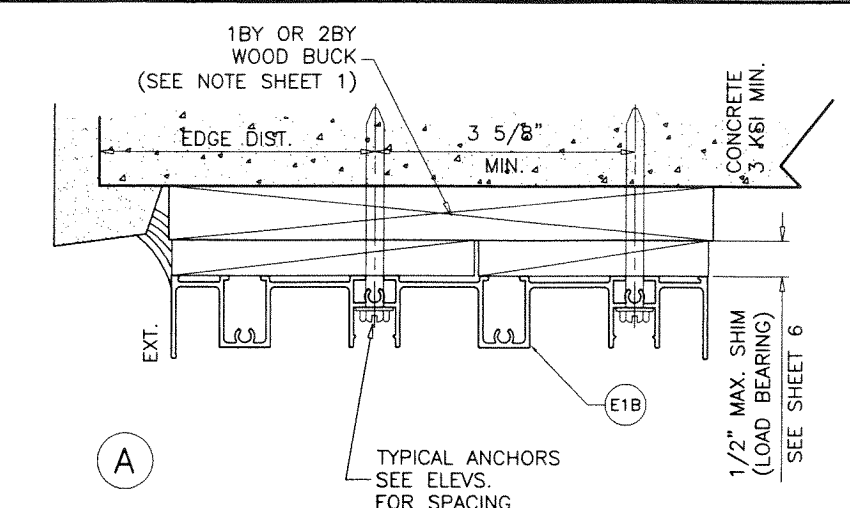
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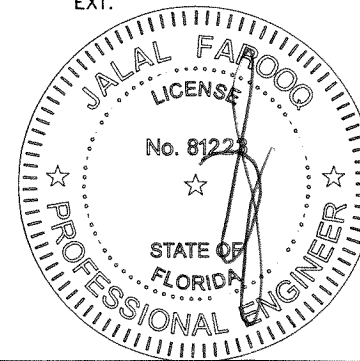
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 Miami-Dade Product Control

4 TRACK FRAMES
 ANCHOR LOCATIONS



JUL 07 2023

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 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
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ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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sheet 19 of 23

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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL400-001	1	FRAME HEAD (2 TRACK)	6063-T6	-
E1A	ES-EL400-201	AS REQD.	FRAME HEAD (3 TRACK)	6063-T6	-
E1B	ES-EL400-205	AS REQD.	FRAME HEAD (4 TRACK)	6063-T6	-
E2	ES-EL400-002	1	FRAME SILL (2 TRACK)	6063-T6	-
E2A	ES-EL400-202	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E2B	ES-EL400-206	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E3	ES-EL400-003	2	FRAME JAMB (2 TRACK)	6063-T6	-
E3A	ES-EL400-203	AS REQD.	FRAME JAMB (3 TRACK)	6063-T6	-
E3B	ES-EL400-207	AS REQD.	FRAME JAMB (4 TRACK)	6063-T6	-
E4	ES-EL400-004	1/ PANEL	TOP RAIL (INSUL. LAM. GLASS)	6063-T6	-
E5	ES-EL400-005	1/ PANEL	BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
E6	ES-EL400-006	AS REQD.	JAMB STILE (INSUL. LAM. GLASS)	6063-T6	-
E7	ES-EL400-007	AS REQD.	INTERLOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E8	ES-EL400-009	1/ PANEL	TOP RAIL (LAM. GLASS)	6063-T6	-
E9	ES-EL400-010	1/ PANEL	BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E10	ES-EL400-011	AS REQD.	JAMB STILE (LAM. GLASS)	6063-T6	-
E11	ES-EL400-012	AS REQD.	INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E12	ES-EL400-013	AS REQD.	ASTRAGAL STILE (LAM. GLASS)	6063-T6	-
E12A	ES-EL400-008	AS REQD.	ASTRAGAL STILE (INSUL. LAM. GLASS)	6063-T6	-
E13	ES-EL400-014	AS REQD.	JAMB COVER	6063-T5	-
E14	ES-EL400-015	AS REQD.	POCKET JAMB	6063-T6	-
E15	ES-EL400-016	AS REQD.	SILL TRACK	6063-T6	-
E16	ES-EL400-017	AS REQD.	HEAD COVER	6063-T5	-
E17A	ES-2020-008	AS REQD.	SILL RISER	6063-T6	-
E17B	ES-2020-007	AS REQD.	ALT. SILL RISER	6063-T6	-
E17C	ES-2020-041	AS REQD.	ALT. SILL RISER	6063-T6	-
E18	ES-EL400-020	AS REQD.	FIXED PANEL BOTTOM GUIDE	6063-T6	-
E19	ES-EL400-021	AS REQD.	INTERLOCK REINFORCEMENT	6005-T5	-
E26	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
M1	ES-EL400-G01	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M2	ES-EL400-G02	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M3	ES2020-G04	AS REQD.	INTERLOCK BUMPER	PVC	DUROMETER 60±5 SHORE D
M4	W33271NK	AS REQD.	PILE W'STRIPPING (INTERLOCK)	WOOL	-
M5	W33181NK	AS REQD.	PILE W'STRIPPING	WOOL	-
M6	PS01-0014	AS REQD.	DOOR HANDLE	DIE CAST ALUM	TWO POINT HANDLE
M7	PS01-1015	AS REQD.	STRIKE FOR MORTISE LOCK	ST. STEEL	-
M8	PS01-1036	AS REQD.	MORTISE 2 POINT LOCK	ST. STEEL	-
M9	GT-R34/3-01-A	2/ PANEL	ROLLER ASSEMBLY	ZAMAK	-
M10	6844.1	AS REQD.	BUMPER	ALUM/NYLON	-
M11	ES-EL400-FPI SL	2/ PANEL	FIX. PANEL CLIPS, AT 12" FROM TOP & BOTTOM	6063-T6	-
M12	#8 X 3/4"	AS REQD.	KEEPER FASTENERS	ST. STEEL	P.H. SMS
M13	#10 X 1-1/4"	AS REQD.	PANEL ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M14	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M15	#6 X 3/8"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	P.H. SMS
M16	#8 X 1/2"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	F.H. SMS
M18	#10 X 1/2"	AS REQD.	ROLLER FASTENERS	ST. STEEL	P.H. SMS
M19	#10 X 1"	AS REQD.	LOCK INSTALLATION FASTENERS	ST. STEEL	F.H. SMS
M20	#8 X 1/2"	AS REQD.	HANDLE INSTALLATION FASTENERS	ST. STEEL	F.H. SMS

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

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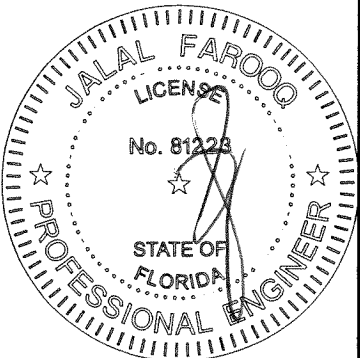
By Ishag I. Chande
Miami-Dade Product Control

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8 X 1/2" FH SMS (M20)

SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK
44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10 X 1" FH SMS

SURFACE MOUNT METALLIC KEEPER AT 44" FROM BOTTOM
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH
(3) #8 X 3/4" PH SMS (M12)



JUL 07 2023

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(C.A.N. 3538)

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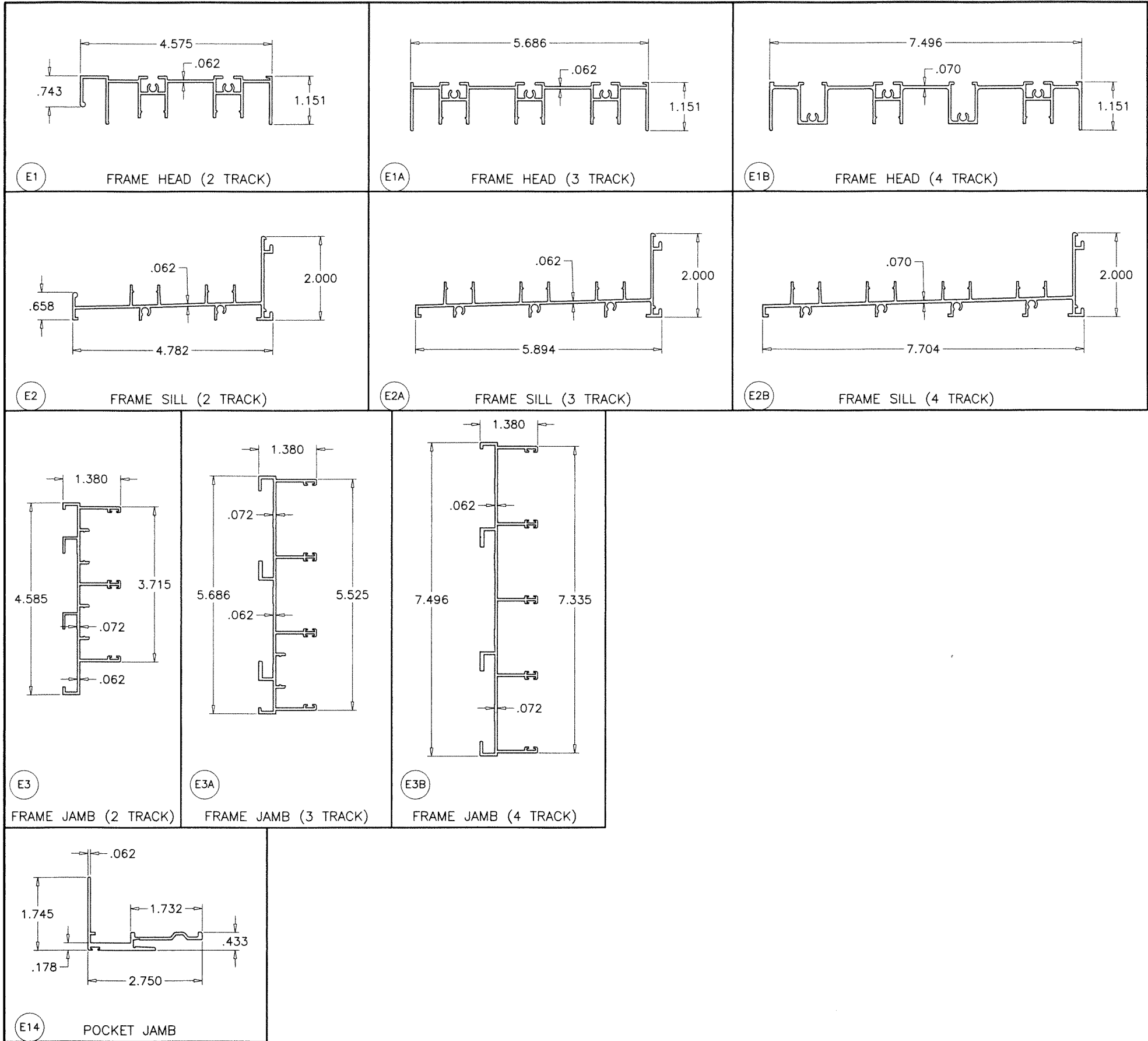
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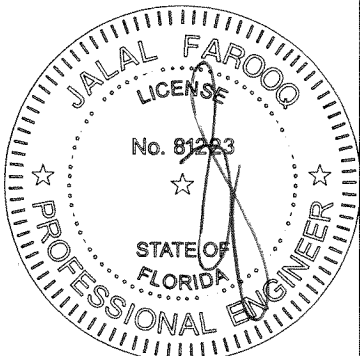
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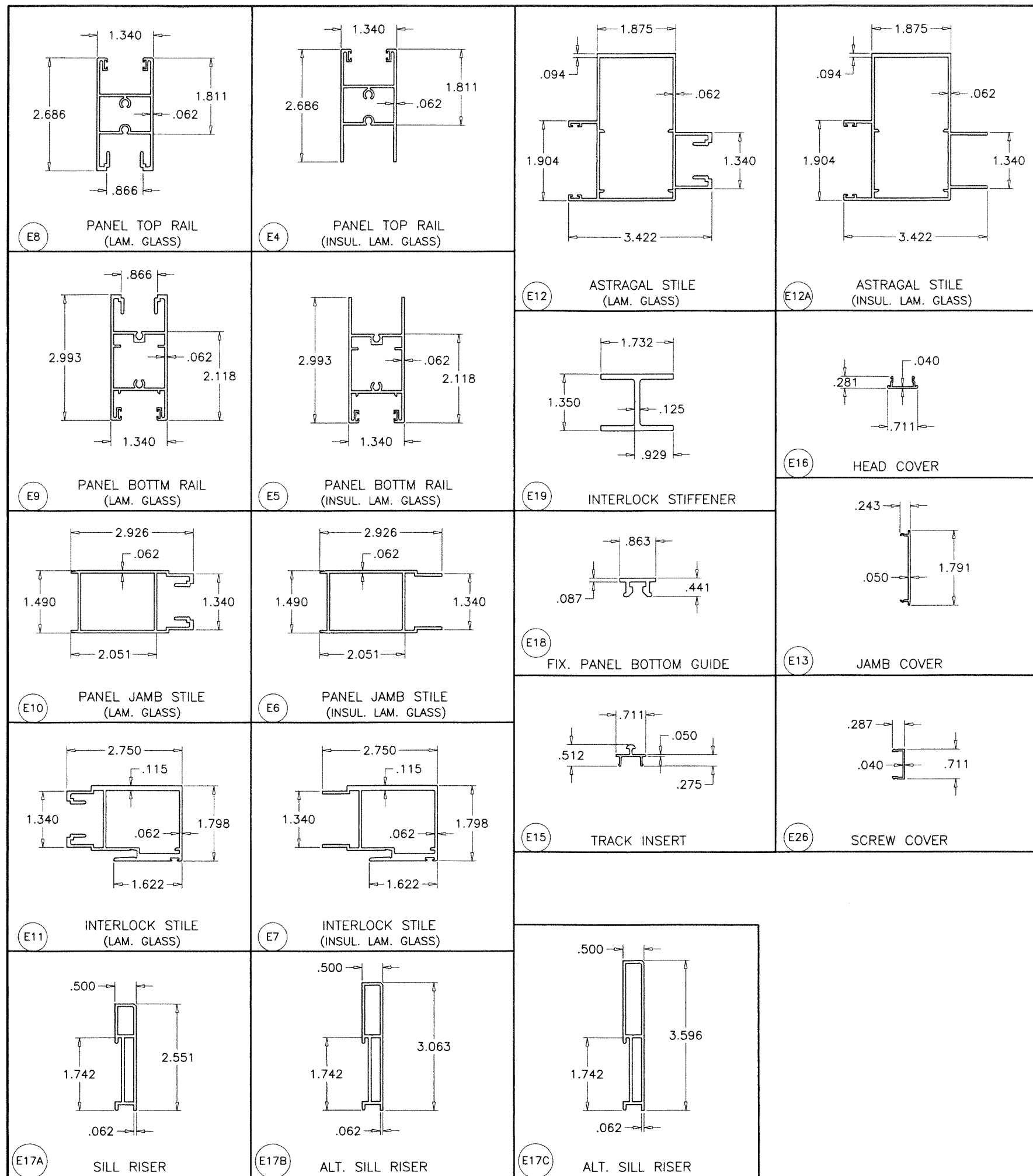
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M1

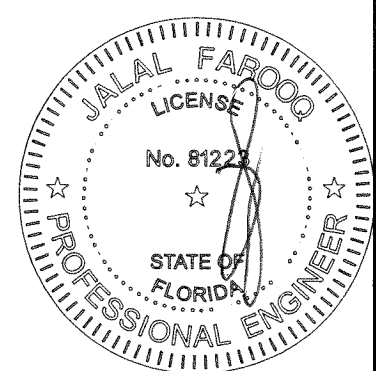
GLAZING GAKET
LAM. GLASS

M2

GLAZING GASKET
INSUL. LAM. GLASS

MATERIAL = SILICONE
 HARDNESS = 70±3
 TENSILE STRENGTH = 1139 PSI
 ELONGATION AT BREAK = 235%
 TEAR STRENGTH = 107 Lb/IN
 BRITTLENESS TEMPERATURE = -40° F
 COMPRESSION SET = 12.5% (22h@212°F)

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 Miami-Dade Product Control



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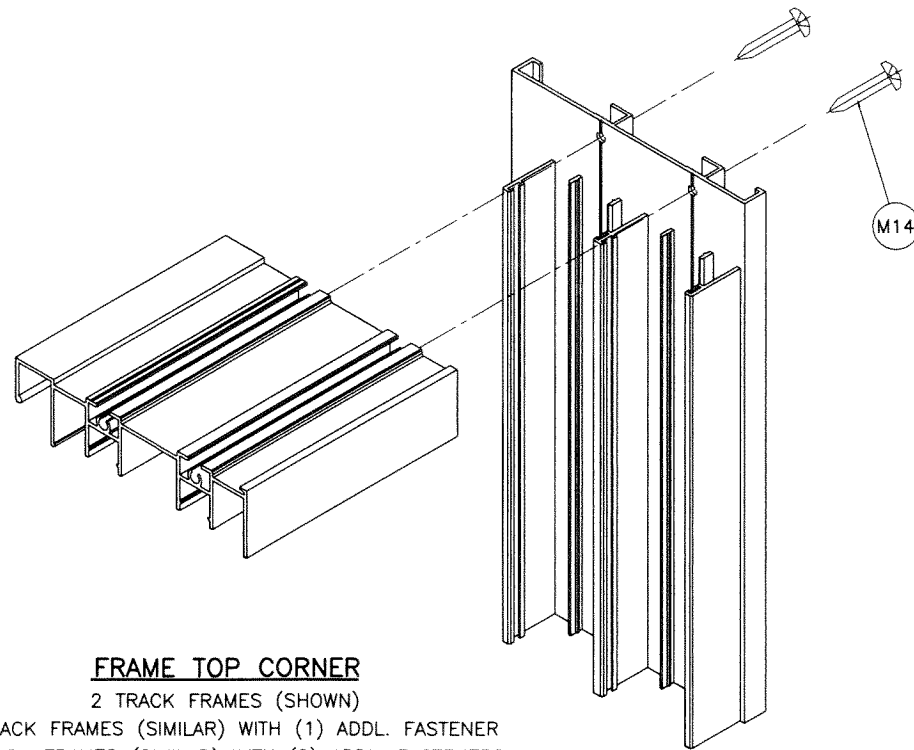
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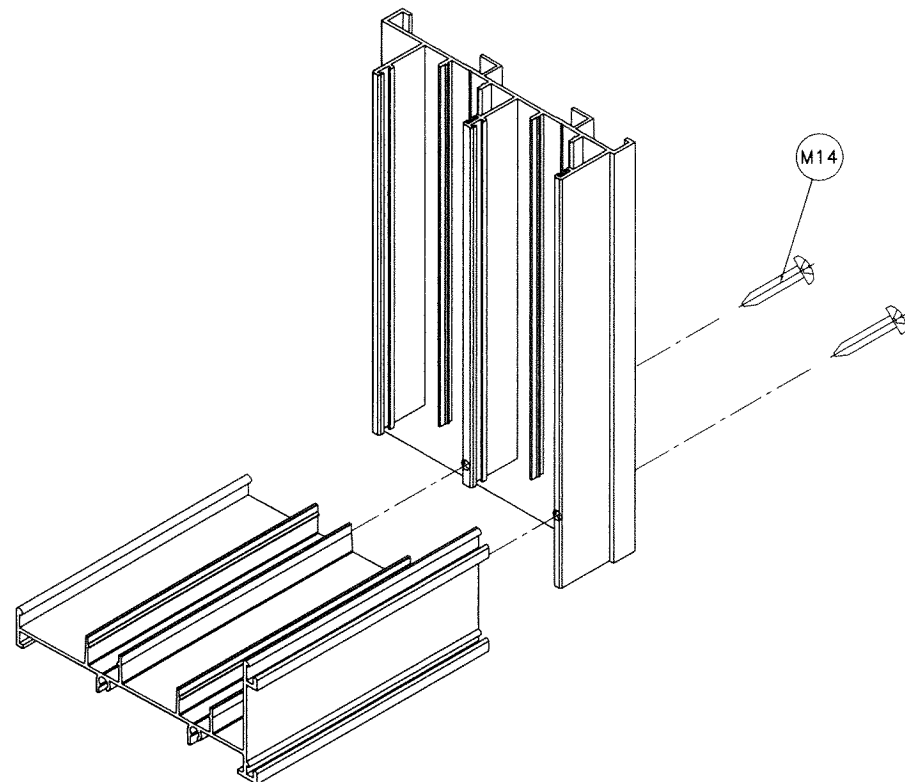


FRAME TOP CORNER

2 TRACK FRAMES (SHOWN)

3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER

4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS



FRAME BOTTOM CORNER

2 TRACK FRAMES (SHOWN)

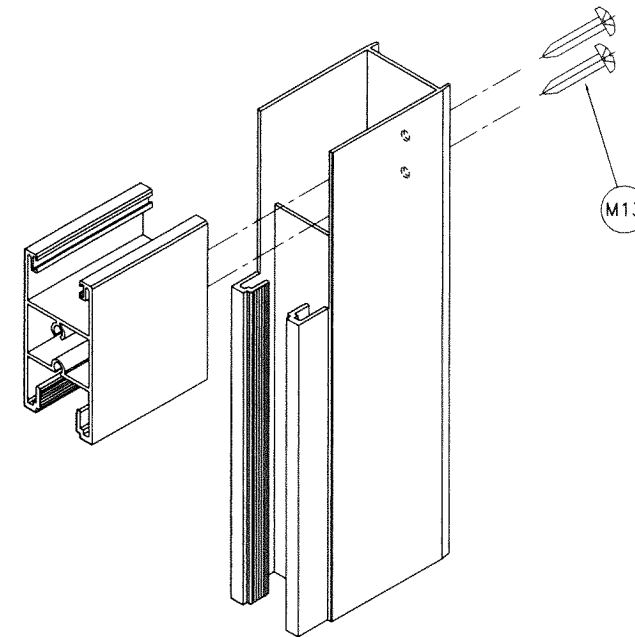
3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER

4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS

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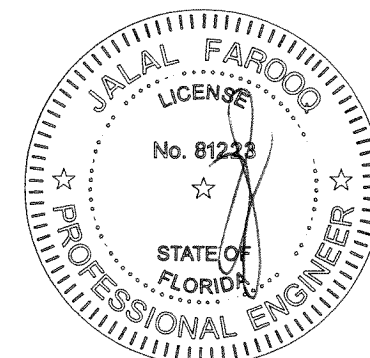
By Ishag I. Chande
Miami-Dade Product Control



PANEL TOP/BOTTOM CORNER

LAM. GLASS RAIL & STILE (SHOWN)

INSUL. LAM. GLASS RAIL & STILE (SIMILAR)



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