



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

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**NOTICE OF ACCEPTANCE (NOA)**

**Red Oaks Shutter, Inc.**  
221 S.W. 5<sup>th</sup> Court  
Pompano Beach, Florida 33060-7911

**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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: "Gladiator Screening Systems" Flexible Wind Abatement System**

**APPROVAL DOCUMENT:** Drawing No. AD13-01, titled "Gladiator Screening Systems", sheets 1 through 10 Of 10, prepared by MCY Engineering, Inc., dated April 03, 2013, revision #1 dated October 13, 2015, signed and sealed by Yiping Wang, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, 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 & renews NOA #13-0205.09 and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
07/07/2016

NOA No. 15-1201.02  
Expiration Date: 04/18/2023  
Approval Date: 07/07/2016  
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #13-0205.09**

**A. DRAWINGS**

1. *Drawing No. AD13-01, titled "Gladiator Screening Systems", sheets 1 through 10 of 10, prepared by MCY Engineering, Inc., dated April 03, 2013, signed and sealed by Yiping Wang, P.E., on April 04, 2013.*

**B. TESTS**

1. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3340, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
2. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3341, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
3. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3343, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
4. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3336, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
5. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-4057, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
6. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-4056, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
7. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3335, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
8. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-4060, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*

  
Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

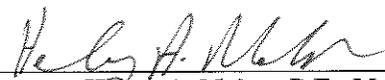
NOA No. 15-1201.02

Expiration Date: 04/18/2023

Approval Date: 07/07/2016

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

9. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-4061, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
10. *Compressive Strength of Cylindrical Concrete Specimens, per ASTM C39-12, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-C173, dated October 02, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
11. *Compressive Strength of Grout, per ASTM C39-12, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-C172, dated October 02, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
12. *Breaking Strength and Elongation of Textile Fabrics Grab Test per ASTM D 5034-09 prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-T121, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
13. *Breaking Strength and Elongation of Textile Fabrics Grab Test per ASTM D 5034-09 prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-T122, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
14. *Sewn Seams Strength Using Grab Tensile Test per ASTM D 1683-11a prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-T123, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
15. *Breaking Force and elongation of Textile fabrics per ASTM D 638-10/ASTM D 5035-11 prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-U108, dated July 24, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
16. *Breaking Force and elongation of Textile fabrics per ASTM D 638-10/ASTM D 5035-11 prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-U109, dated July 24, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
17. *Accelerated Weathering Using Xenon Arc light Apparatus per ASTM G 155-05a prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-A403, dated July 24, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
18. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3345, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
19. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3344, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*



**Helmy A. Makar, P.E., M.S.**  
**Product Control Section Supervisor**  
**NOA No. 15-1201.02**  
**Expiration Date: 04/18/2023**  
**Approval Date: 07/07/2016**

**Red Oaks Shutter, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. *Comparative Analysis and Anchor calculations dated November 03, 2012, Pages L-1, L-2, D-1, TR-1, A-1 through A-31, R-1 through R-3, T-1 through T-55, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *Fabric specifications.*

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. AD13-01, titled "Gladiator Screening Systems", sheets 1 through 10 of 10, prepared by MCY Engineering, Inc., dated April 03, 2013, revision #1 dated October 13, 2015, signed and sealed by Yiping Wang, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

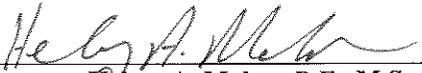
1. *Anchor calculations dated October 15, 2015, Pages D-1, TR-1, A-1, A12 through A-36, A-2 through A-11, R-1 through R-7, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

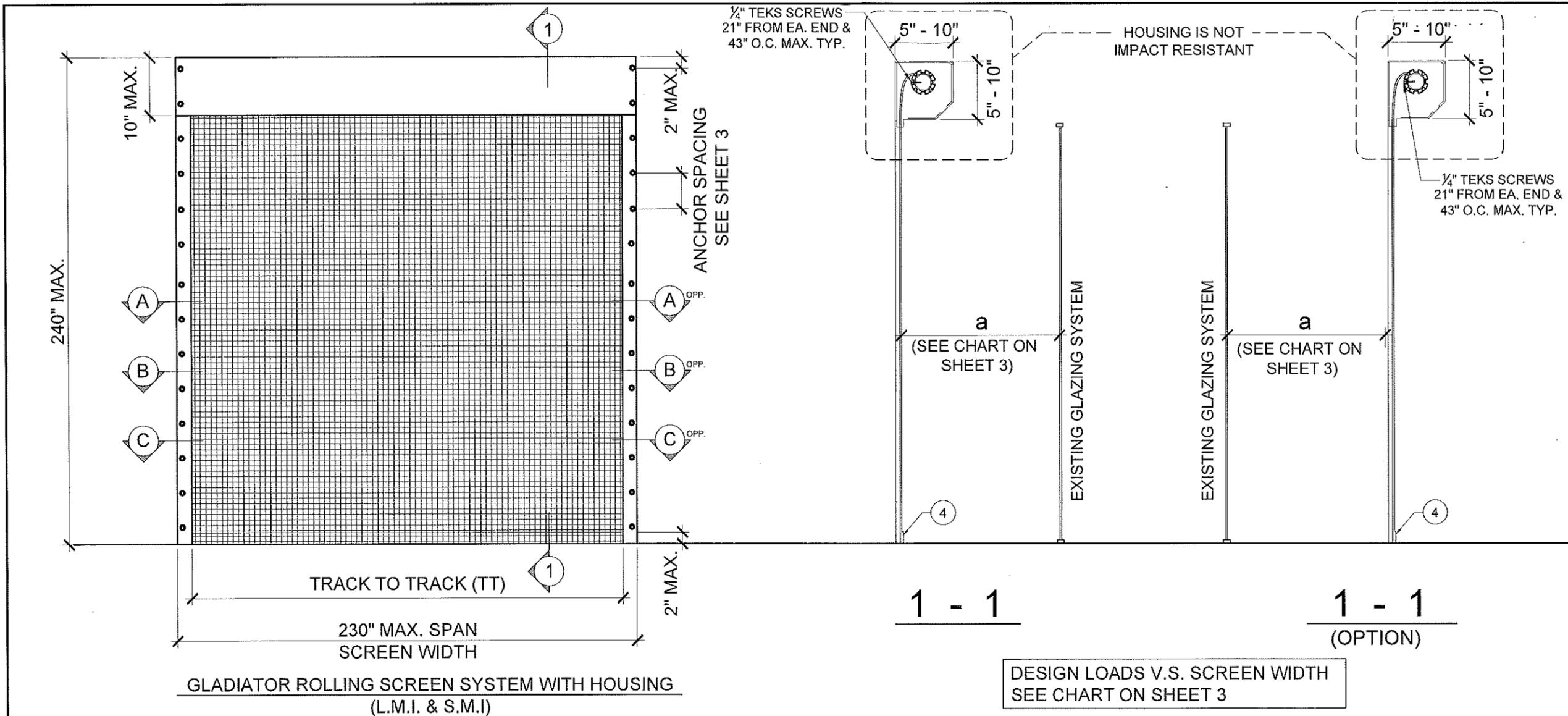
  
\_\_\_\_\_  
Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

NOA No. 15-1201.02

Expiration Date: 04/18/2023

Approval Date: 07/07/2016



GLADIATOR ROLLING SCREEN SYSTEM WITH HOUSING  
(L.M.I. & S.M.I.)

DESIGN LOADS V.S. SCREEN WIDTH  
SEE CHART ON SHEET 3

**GENERAL NOTES:**

- THE ROLLING SCREEN SYSTEM IS NON-POROUS LARGE/SMALL MISSILE IMPACT PROTECTION DEVICE. IT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 5TH EDITION FLORIDA BUILDING CODE (2014) EDITION. FOR USE INSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- THIS PRODUCT HAVE BEEN TESTED AS PER FBC 2014 TAS 201, 202 (STRUCTURAL WIND LOAD ONLY) AND 203 FOR LARGE/SMALL MISSILE IMPACT. THE SYSTEM IS ALSO TESTED AS PER ASTM D635-06, ASTM D2843-99, ASTM D1929-96 AND ASTM G155.
- DESIGN LOAD SHALL BE DETERMINED BASED ON BASIC WIND SPEED, BUILDING HEIGHT AND WIND ZONE USING APPLICABLE ASCE 7-10 STANDARD.
- DESIGN LOAD OBTAINED FROM ASCE 7-10 (ULTIMATE LOAD), MULTIPLY BY 0.6, SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 5TH EDITION FLORIDA BUILDING CODE (2014) SECTION AS APPLICABLE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/E.O.R. TO VERIFY THAT THE EXISTING STRUCTURE OR APPROVED MULLION IS DESIGNED TO SUPPORT Fx & Fy FORCES AT END OF TRACK. FOR Fx & Fy REFER TO CHART ON SHEET 3.
- ROLLUP MECHANISM IS NOT PART OF THIS APPROVAL. CARE SHOULD BE TAKEN WHEN SECURITY SHIELD IS IN MOTION TO ENSURE THAT PERSONAL INJURY OR DAMAGE TO THIS PRODUCT DOES NOT OCCUR.
- ALL SCREEN PANELS SHALL BE PERMANENTLY LABELED, IN A READILY VISIBLE LOCATION, WITH AT LEAST ONE LABEL STATING:

ATLAS ARMOR, INC.  
1101 HOLLAND DRIVE, SUITE 16  
BOCA RATON, FL 33487  
MIAMI DADE COUNTY  
PRODUCT CONTROL APPROVAL

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 15-1201-02  
Expiration Date 04/18/2023  
By: *[Signature]*  
Miami Dade Product Control

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
No. 1594

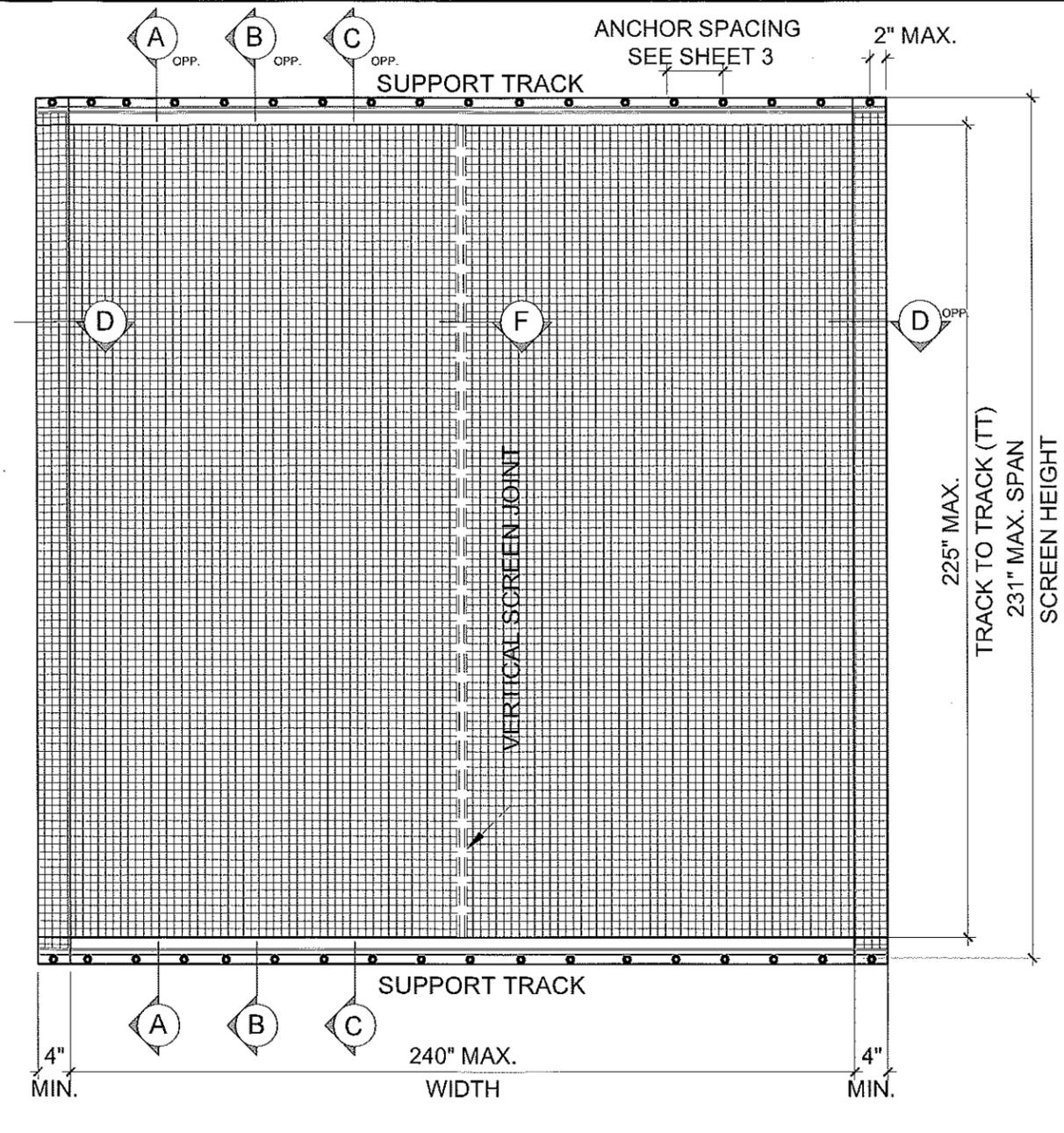
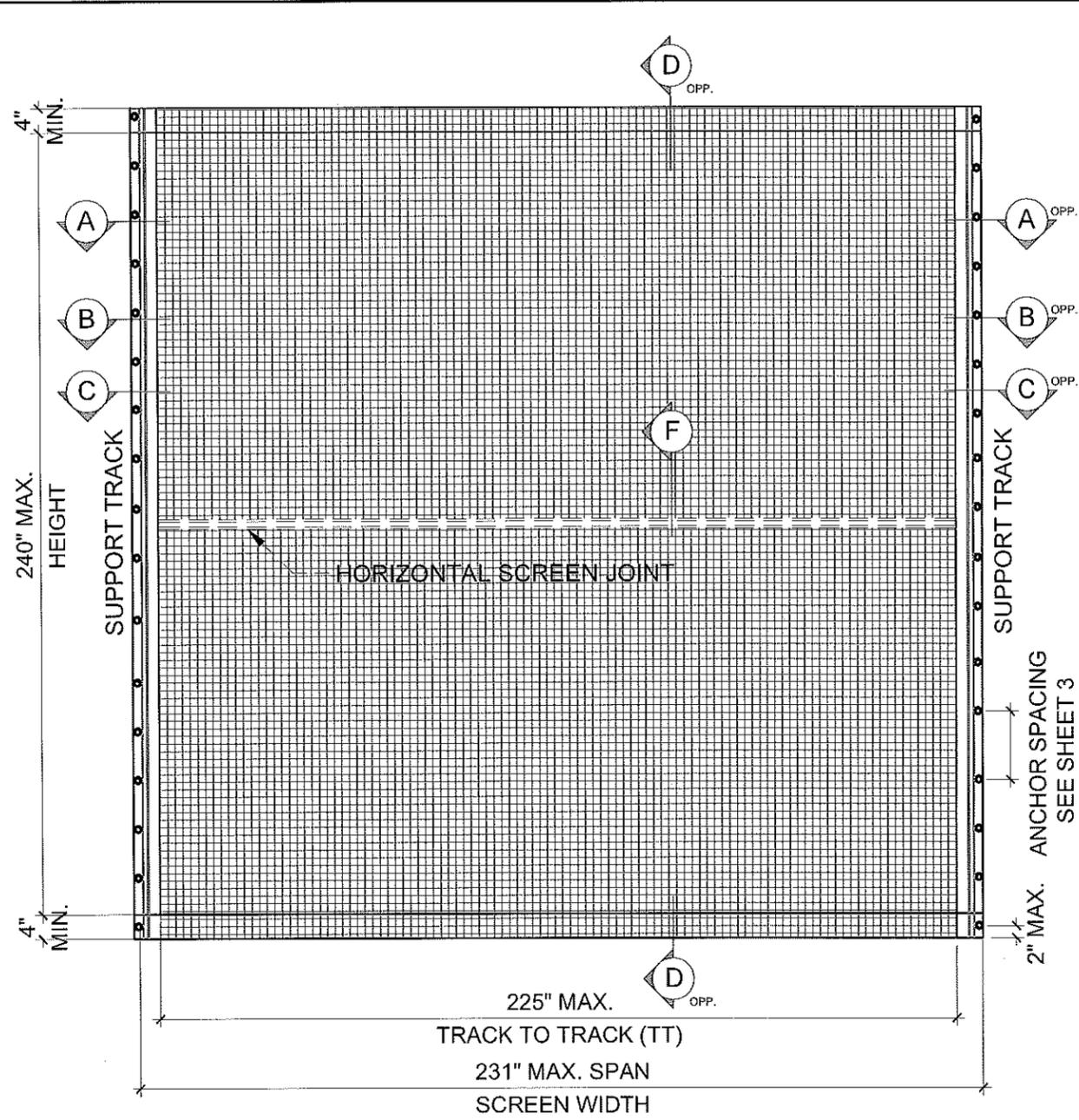
NO	DATE	DESCRIPTION
A	10/13/15	UPDATE TO 2014 FBC

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL. 33183 F: 305.921.4786  
www.MCYEngineering.com MCY.Engineering@Att.net

GLADIATOR SCREENING SYSTEMS (LMI & SMI)  
RED OAKS SHUTTER  
221 SW 5TH CT  
POMPANO BEACH, FL 33060  
P: (954) 782-9325

DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135
DRAWING NO.	AD13-01
SHEET	1 OF 10

OCT 15 2015



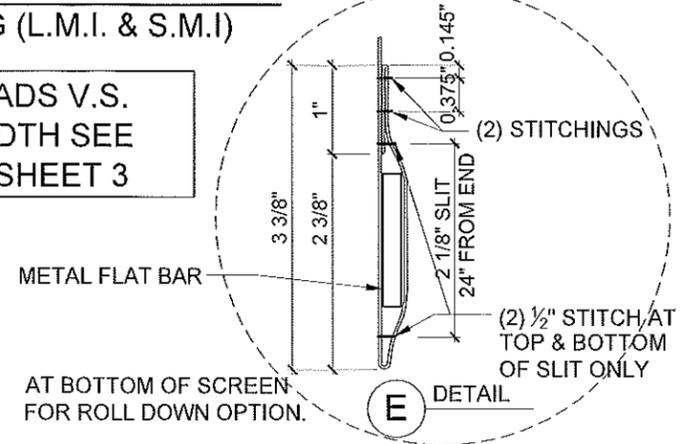
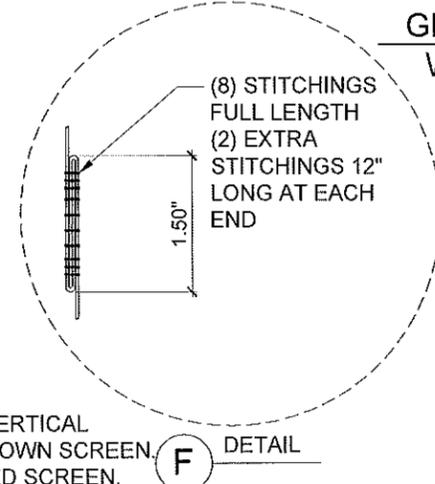
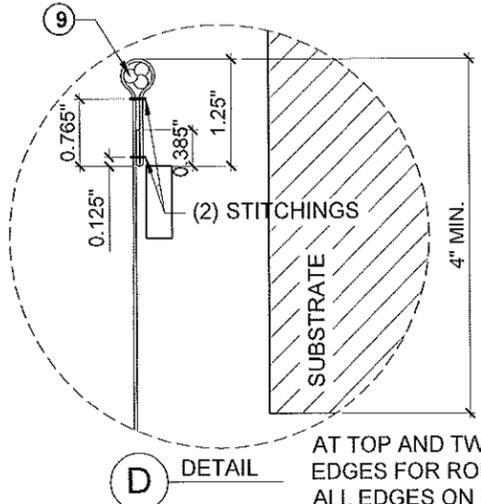
SCREEN ELEVATION  
BOTH SIDES SUPPORT

SCREEN ELEVATION  
TOP & BOTTOM SUPPORT

GLADIATOR FIXED SCREEN SYSTEM  
WITHOUT HOUSING (L.M.I. & S.M.I)

DESIGN LOADS V.S.  
SCREEN WIDTH SEE  
CHART ON SHEET 3

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 15-1201.02  
Expiration Date 04/18/2023  
By *Heidi A. Miller*  
Miami Dade Product Control



NO	DATE	DESCRIPTION
Δ	10/23/15	UPDATE TO 2014 PEC

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL. 33183 F: 305.921.4786  
www.MCYEngineering.com MCY.Engineering@Att.net

GLADIATOR SCREENING SYSTEMS (LMI & SMI)  
RED OAKS SHUTTER  
221 SW 5TH CT  
POMPANO BEACH, FL 33060  
P: (954) 782-9325

DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
No. 55983

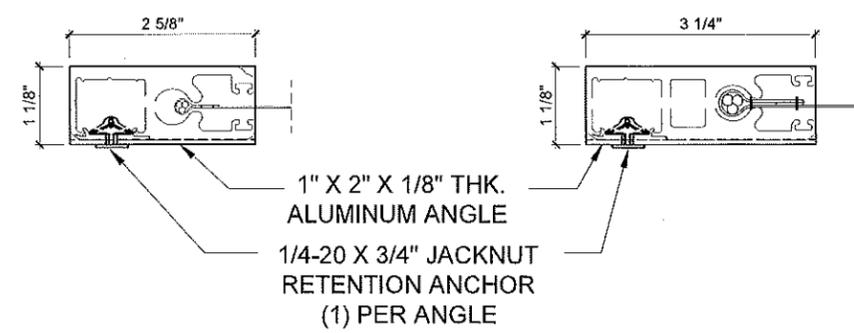
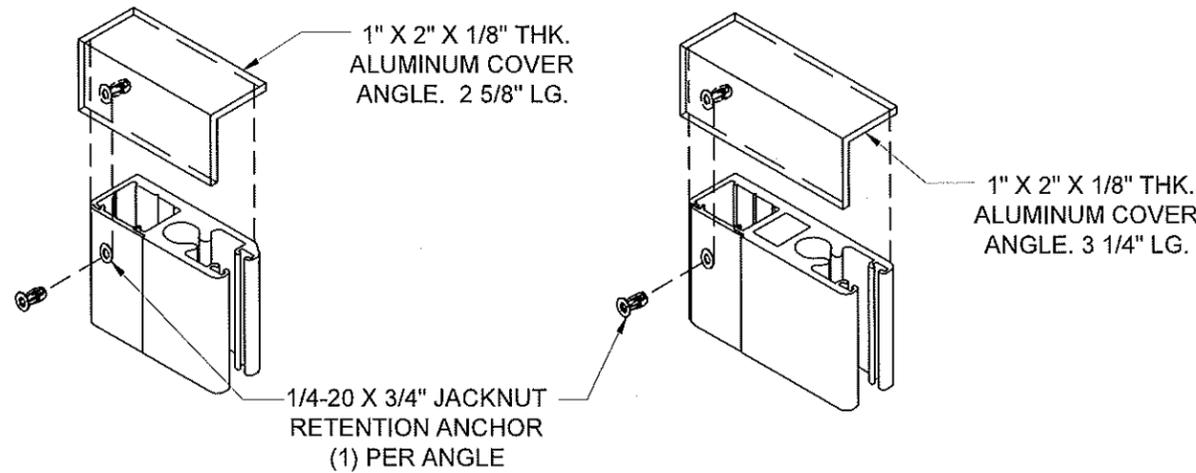
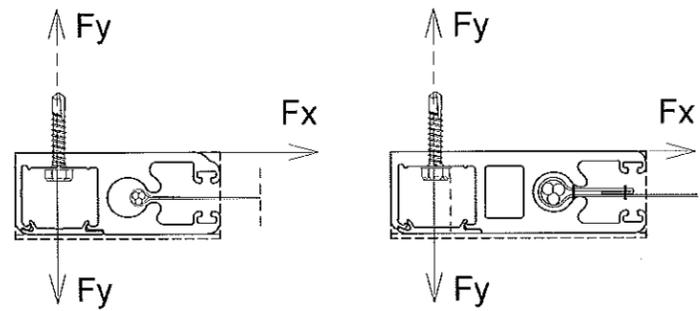
DRAWING NO.	AD13-01
SHEET	2 OF 10

MIAMI DADE COUNTY

OCT 15 2015

# CHART FOR DESIGN LOAD VS. SPAN AND ANCHOR SPACING

MAX. DESIGN LOAD (PSF)	SPAN / SCREEN WIDTH (INCHES)	END REACTIONS AT TRACK		GLASS SEPARATION	ANCHOR SPACING (IN.)														
					DETAIL A					DETAIL B					DETAIL C				
		Fx	Fy	a	OPTION 1	OPTION 2	OPTION 3		OPTION 4	OPTION 1	OPTION 2	OPTION 3		OPTION 4	OPTION 1	OPTION 2	OPTION 3		OPTION 4
		LBS/FT	LBS/FT	IN.	CONCR.	CONCR.	STEEL	ALUM.	WOOD	CONCR.	CONCR.	STEEL	ALUM.	WOOD	CONCR.	CONCR.	STEEL	ALUM.	WOOD
50	0 TO 84.0	602	175	9.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.9	5.5	5.5	5.5	5.5	5.5
	120.0	685	250	15.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.2	5.5	5.5	5.5	5.5	5.5
	156.0	734	325	21.7	5.5	5.5	5.5	5.5	5.0	5.5	5.5	5.5	5.5	3.9	5.5	5.5	5.5	5.5	5.0
	192.0	761	400	29.9	5.4	5.5	5.5	5.5	4.5	5.4	5.5	5.5	5.5	-	5.5	5.5	5.5	5.5	4.7
	230.8	774	481	40.6	5.0	5.5	5.5	5.3	4.0	5.1	5.5	5.5	5.5	-	5.5	5.5	5.5	5.5	4.5
65	0 TO 72	732	195	9.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.1	5.5	5.5	5.5	5.5	5.3
80	0 TO 84.0	964	280	9.7	5.1	5.5	5.5	5.3	4.6	-	5.5	5.5	5.3	-	5.5	5.5	5.5	5.5	4.0
	120.0	1097	400	15.0	-	5.5	5.5	4.4	3.7	-	4.8	5.5	4.5	-	5.5	5.5	5.5	5.5	5.5
	156.0	1175	520	26.8	-	4.9	5.5	3.9	3.2	-	-	5.5	4.0	-	5.5	5.5	5.5	5.5	-
100	0 TO 79.0	1205	350	10.0	-	5.4	5.5	4.2	3.7	-	4.5	5.3	4.2	-	5.5	5.5	5.5	5.5	-



PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 15-1201.02  
 Expiration Date 04/18/2023  
 By *Heby A. M...*  
 Miami Dade Product Control

YIPING WANG, P.E.  
 FLORIDA REGISTRATION  
 PE #55983  
 C.A.N. 28677

MIAMI DADE COUNTY

NO.	DATE	DESCRIPTION
1	10/13/15	UPDATE TO 2014 EBC

**MCY ENGINEERING, INC.**  
 GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117  
 MIAMI, FL. 33183 F: 305.921.4766  
 www.MCYEngineering.com MCY.Engineering@Att.net

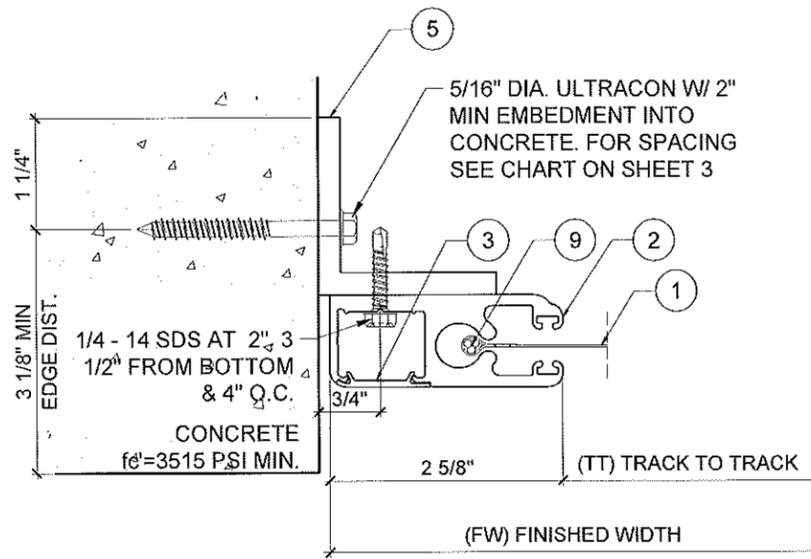
GLADIATOR SCREENING SYSTEMS (LMI & SMI)

RED OAKS SHUTTER

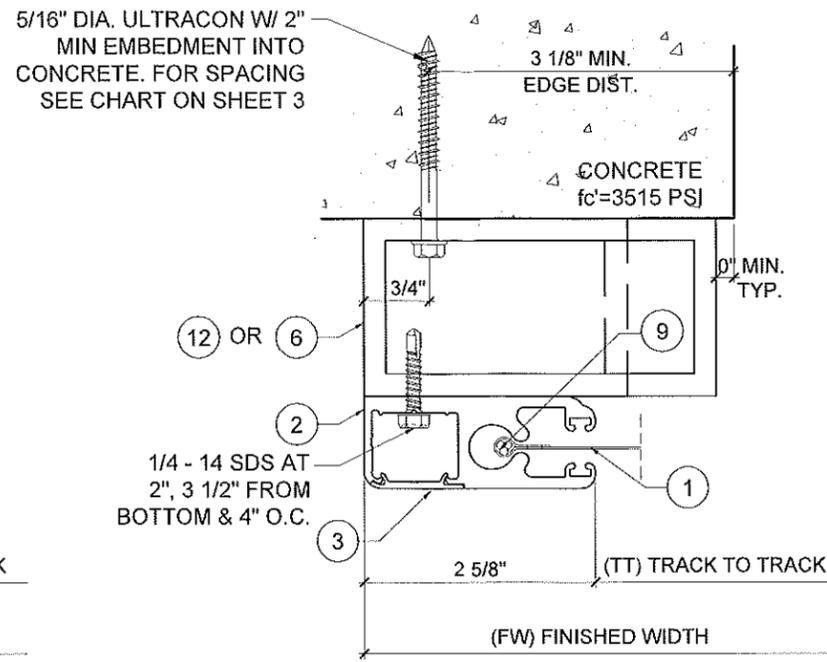
221 SW 5TH CT  
 POMPANO BEACH, FL 33060  
 P: (954) 782-9325

DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135
DRAWING NO.	AD13-01
SHEET	3 OF 10

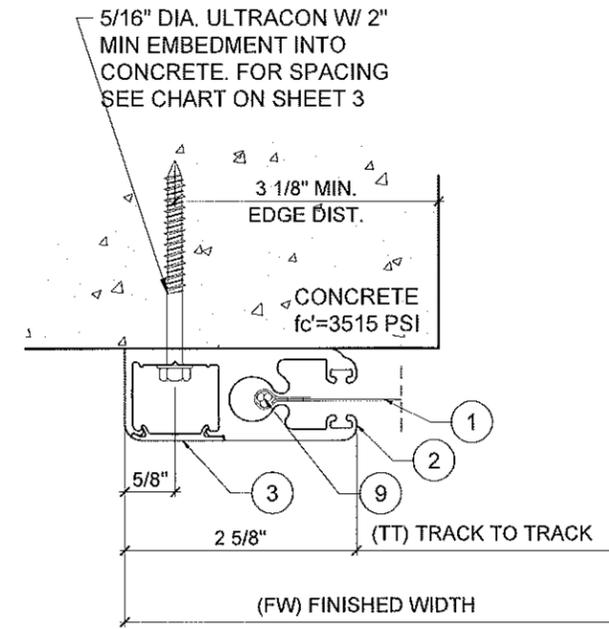
### DETAILS WITH STANDARD TRACKS



**A** OPTION 1

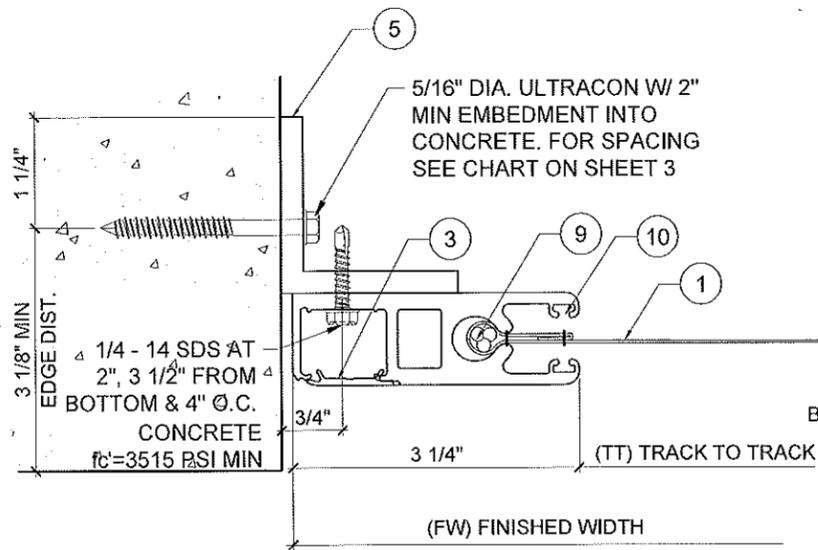


**B** OPTION 1

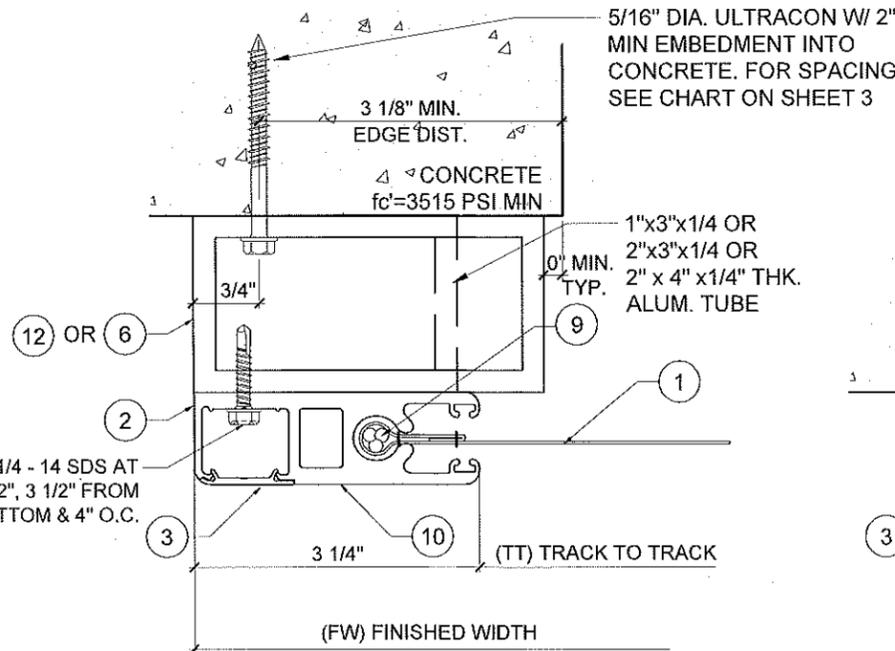


**C** OPTION 1

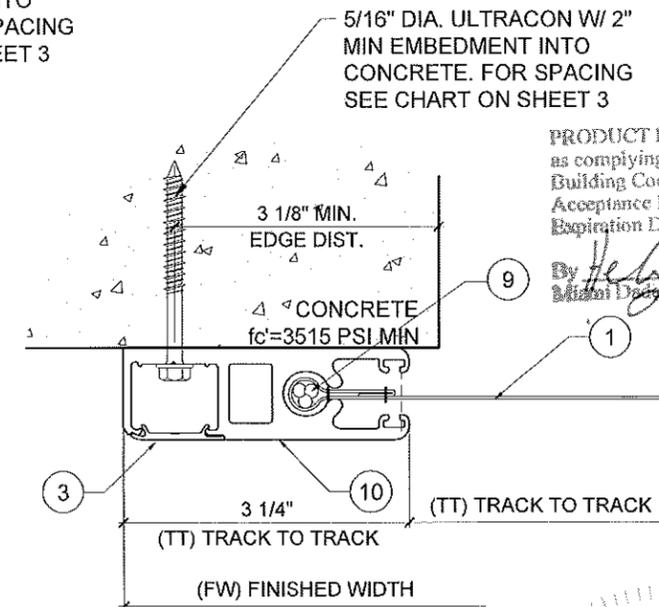
### DETAILS WITH HEAVY DUTY TRACKS



**A** OPTION 1



**B** OPTION 1



**C** OPTION 1

**ANCHOR**  
5/16" DIA. ULTRACON BY 'ELCO' (Fy=155 ksi Fu = 177 ksi)

**ATTACHMENT TO CONCRETE**  
f'c= 3515 PSI MIN.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 15-1201-02  
Expiration Date 04/18/2023  
By: *[Signature]*  
Miami Dade Product Control

NO.	DATE	DESCRIPTION
1	10/18/15	UPDATE TO 2014 FBC

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL 33183 F: 305.921.4786  
www.MCYEngineering.com MCY.Engineering@Att.net

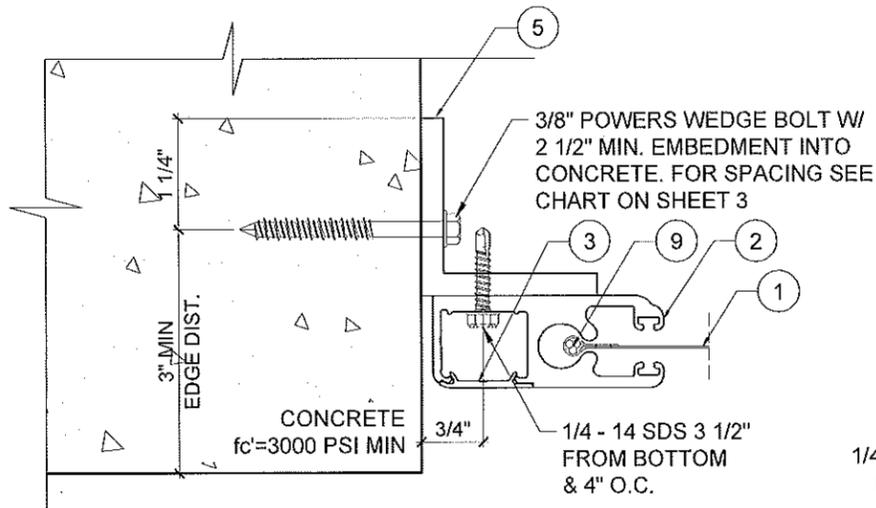
**GLADIATOR SCREENING SYSTEMS (LMI & SMI)**  
**RED OAKS SHUTTER**  
221 SW 5TH CT  
POMPANO BEACH, FL 33060  
P: (954) 782-9325

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
No. 519603

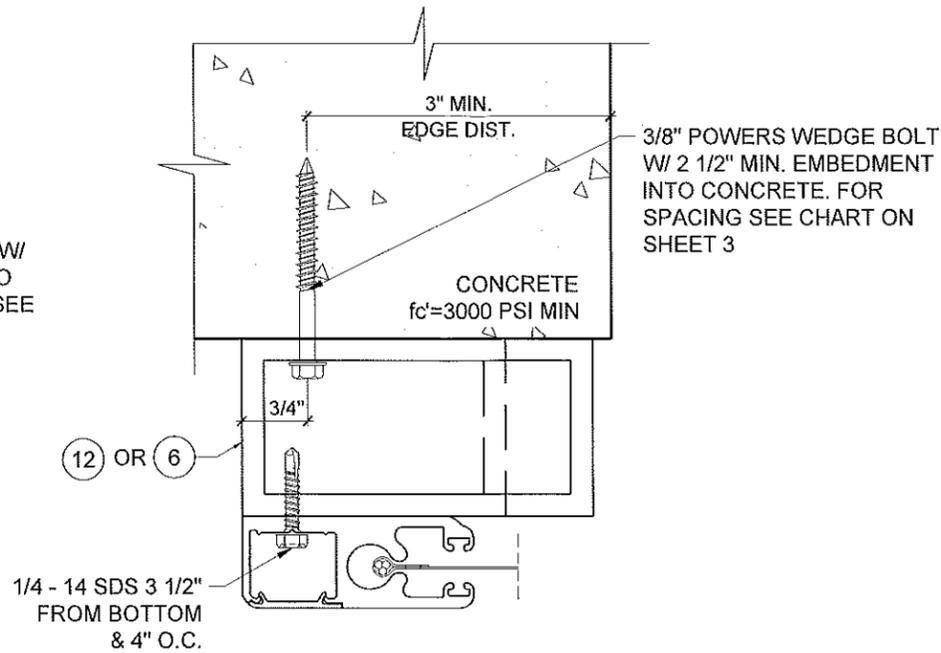
MIAMI DADE COUNTY

DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135
DRAWING NO.	AD13-01
SHEET	4 OF 10

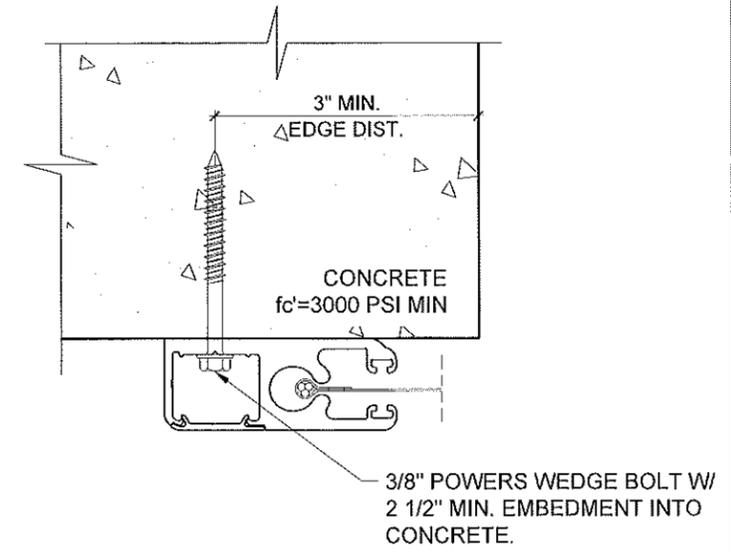
# DETAILS WITH STANDARD TRACKS



**A** OPTION 2

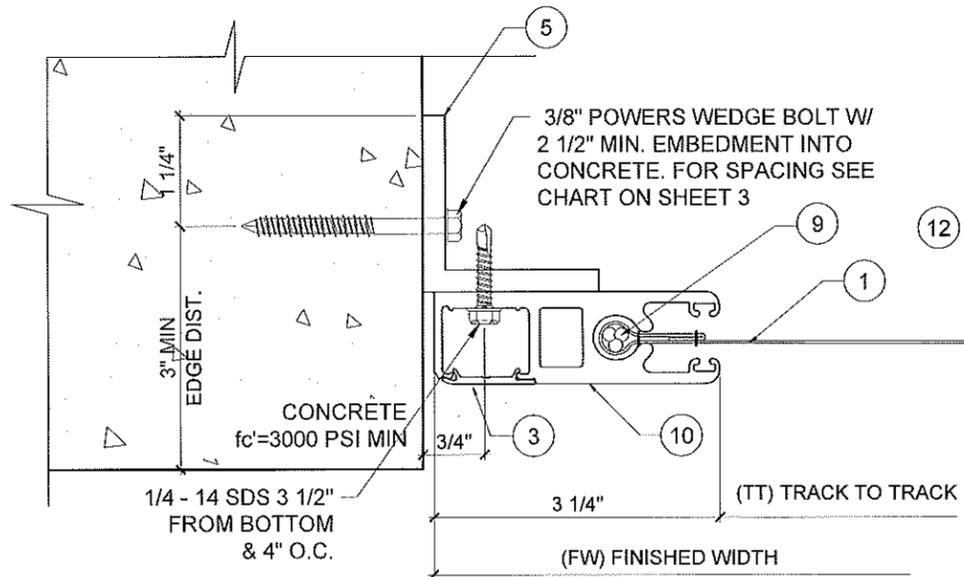


**B** OPTION 2

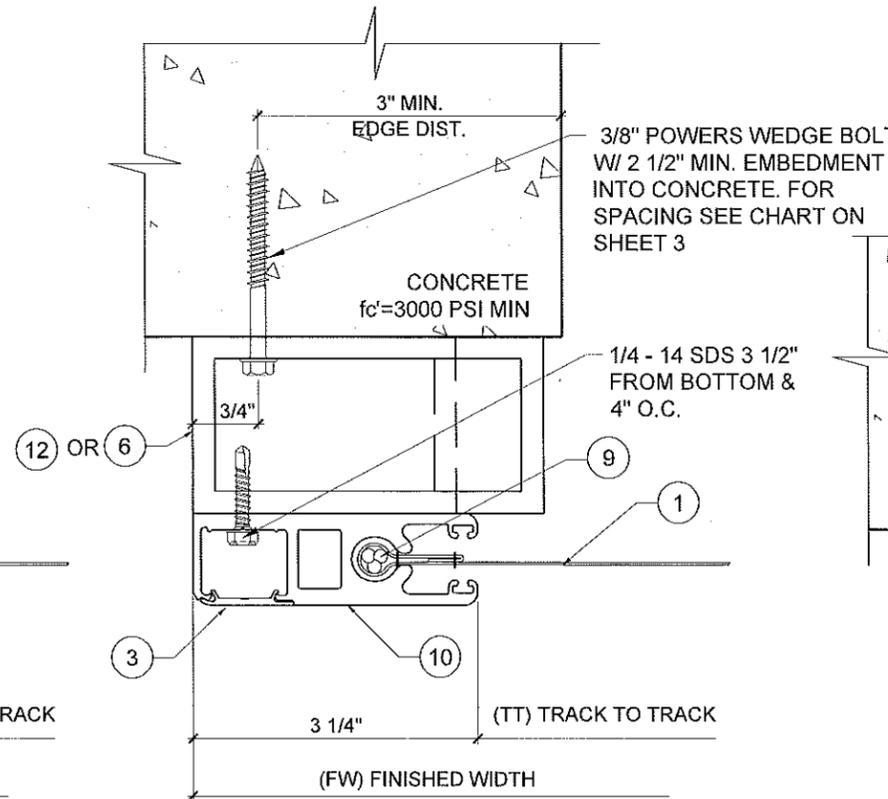


**C** OPTION 2

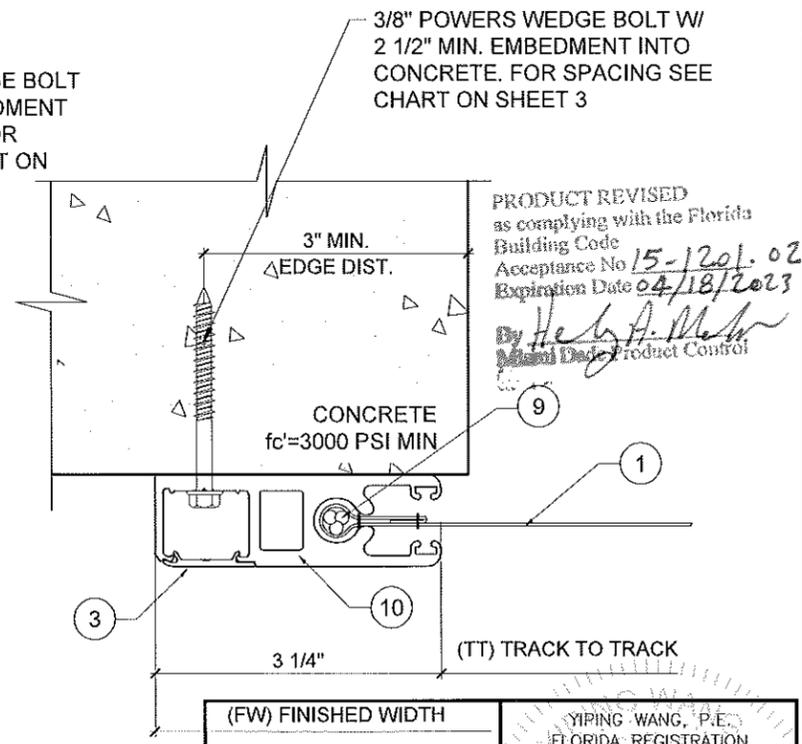
# DETAILS WITH HEAVY DUTY TRACKS



**A** OPTION 2



**B** OPTION 2



**C** OPTION 2

ANCHOR  
3/8" DIA. WEDGE BOLT BY: "POWERS" Fu = 100 KSI Fy = 65KSI

**ATTACHMENT TO CONCRETE**  
fc = 3000 PSI MIN.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 15-1201-02  
Expiration Date 04/18/2023  
*Heby A. Mohr*  
Miami Dade Product Control

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
No 55983  
*Yiping Wang*  
PROFESSIONAL ENGINEER  
MIAMI DADE COUNTY

NO.	DATE	DESCRIPTION
1	10/18/15	UPDATE TO 2014 FBC

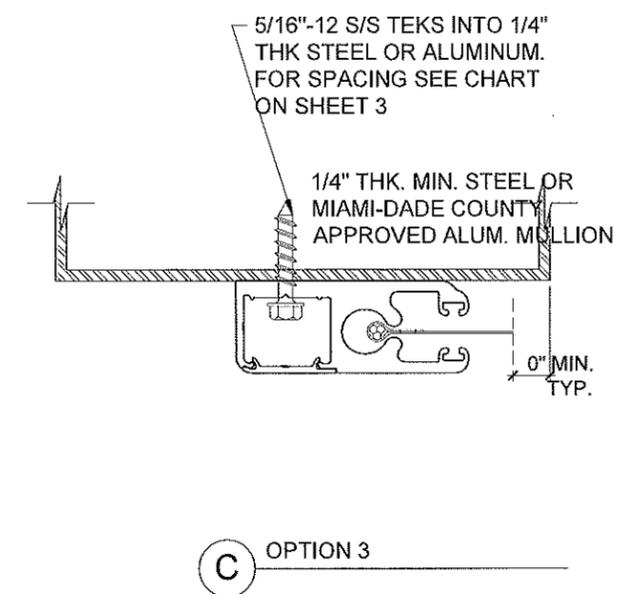
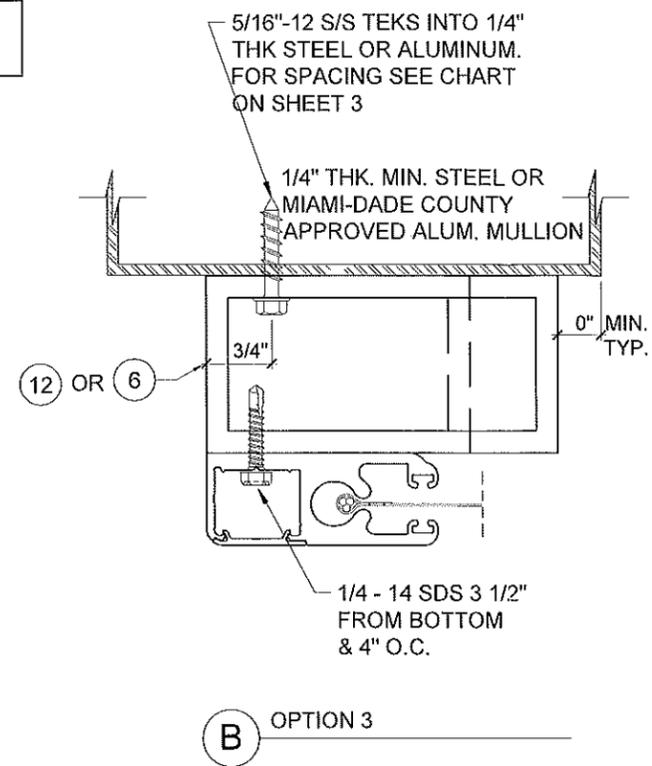
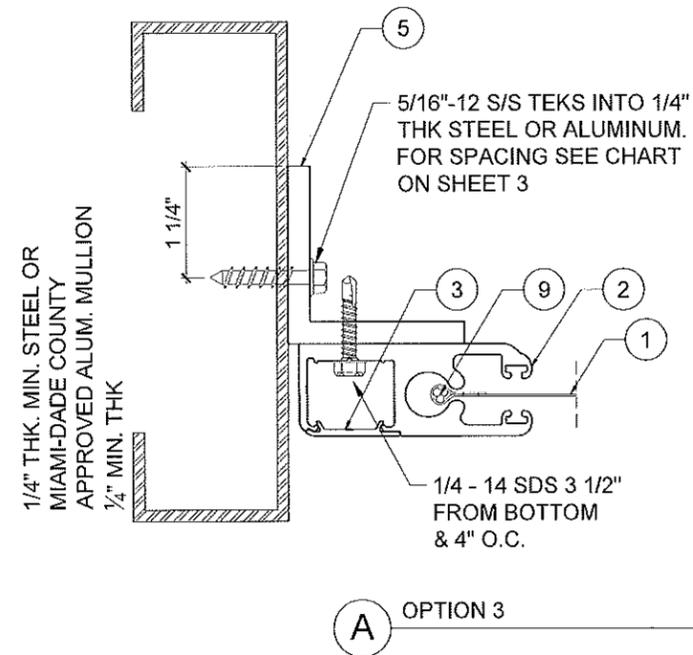
**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL 33183 F: 305.921.4786  
www.MCYEngineering.com MCY.Engineering@Att.net

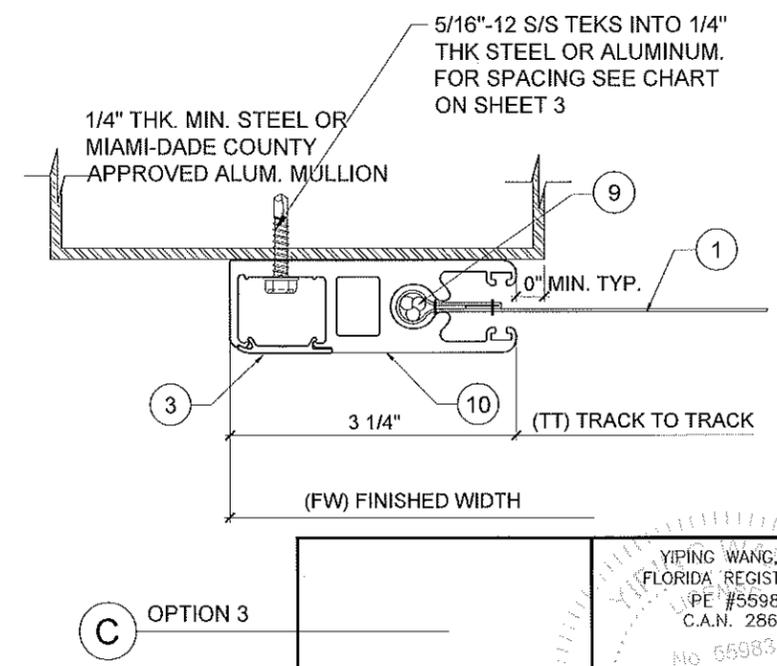
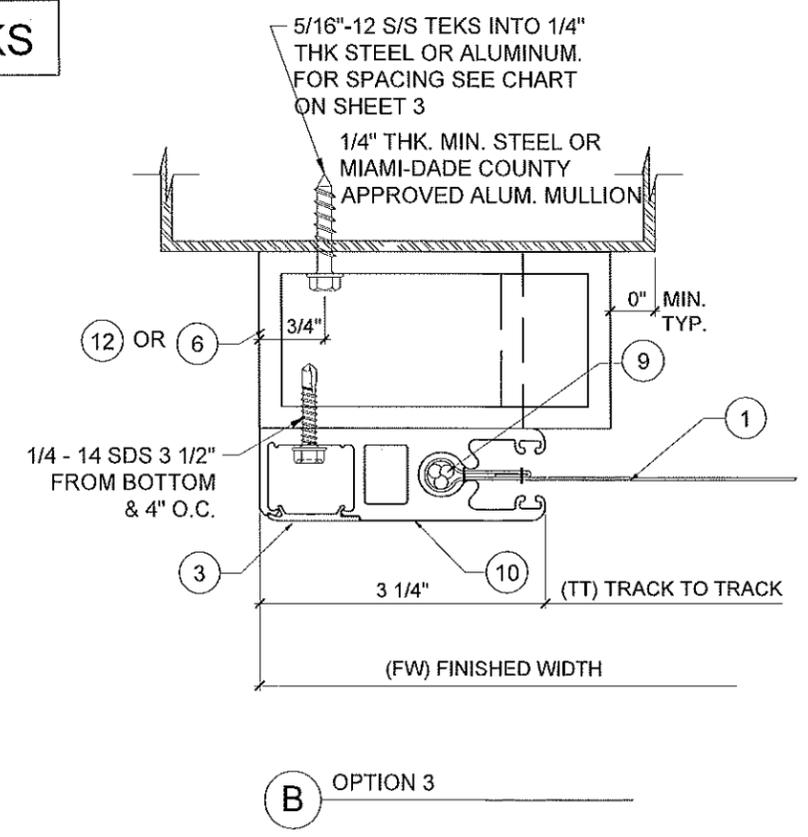
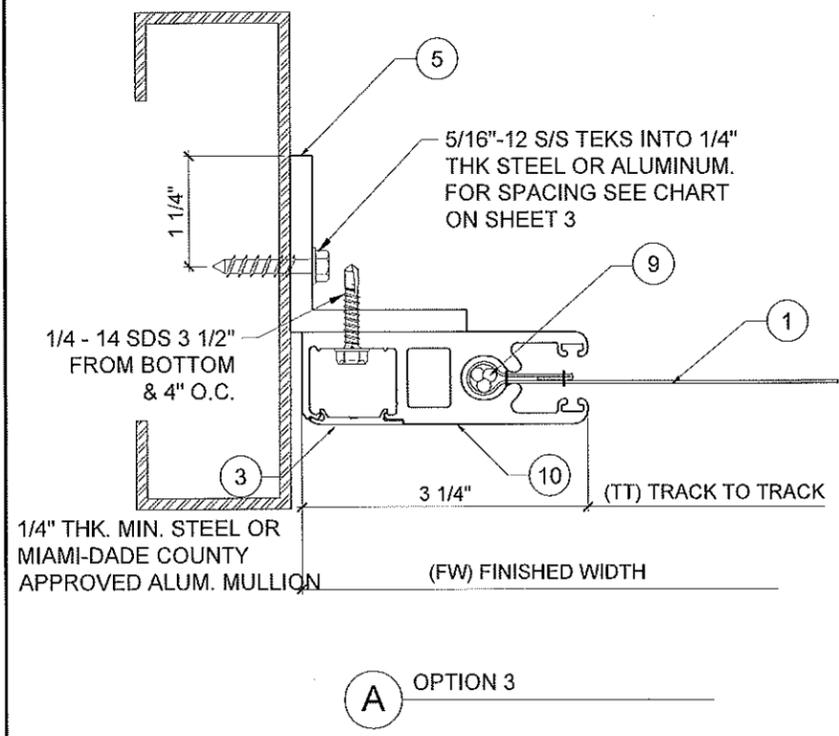
**GLADIATOR SCREENING SYSTEMS (LMI & SMI)**  
**RED OAKS SHUTTER**  
221 SW 5TH CT  
POMPANO BEACH, FL 33060  
P: (954) 782-9325

DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135
DRAWING NO.	AD13-01
SHEET	5 OF 10

# DETAILS WITH STANDARD TRACKS



# DETAILS WITH HEAVY DUTY TRACKS



**ANCHOR**  
5/16" ST./ST. TEKS SCREW Fu=100 KSI Fy= 65 KSI

**ATTACHMENT TO STEEL/ALUM.**  
A36 OR 6063-T5 MIN. 1/4" MIN. THK

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 15-1201-02  
Expiration Date 04/18/2023  
By *Heidi A. Mah*  
Miami Dade Product Control

NO.	DATE	DESCRIPTION
1	10/13/15	UPDATE TO BIR4 PER

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A  
MIAMI, FL. 33183

P: 305.271.0117  
F: 305.921.4786

www.MCYEngineering.com  
MCY.Engineering@Att.net

**GLADIATOR SCREENING SYSTEMS (LMI & SMI)**  
RED OAKS SHUTTER

221 SW 5TH CT  
POMPANO BEACH, FL 33060  
P: (954) 782-9325

MIAMI DADE COUNTY

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
No 55983

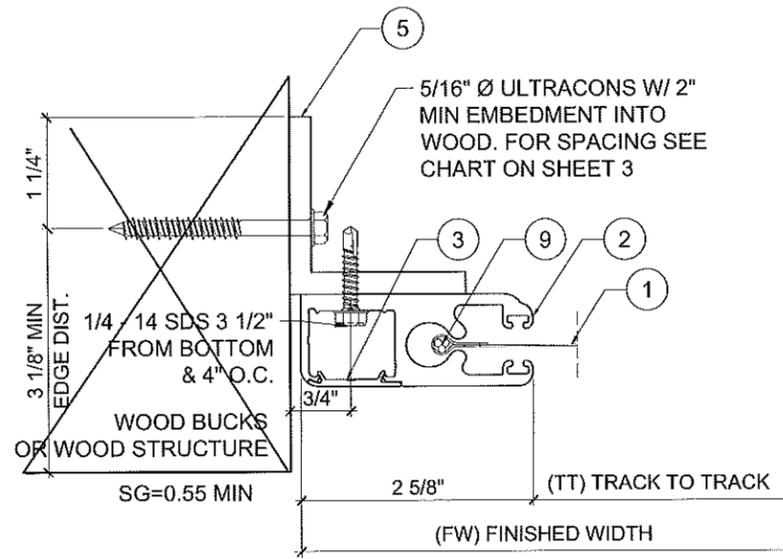
*Yiping Wang*

STATE OF FLORIDA

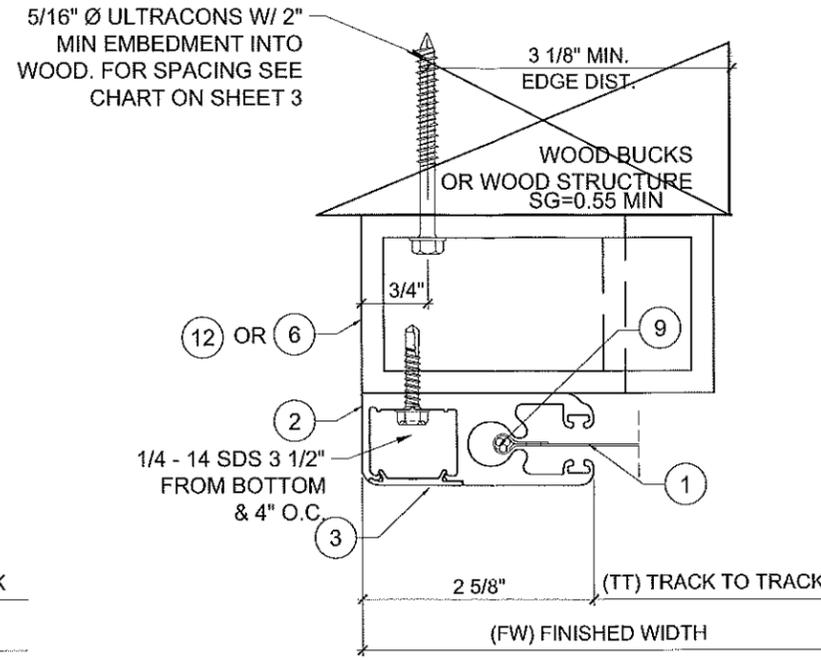
DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135
DRAWING NO.	AD13-01
SHEET	6 OF 10

OCT 15 2015

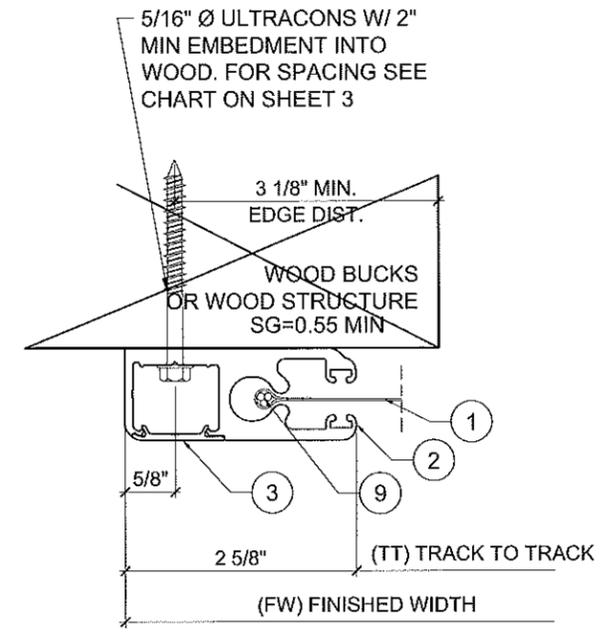
### DETAILS WITH STANDARD TRACKS



**A** OPTION 4

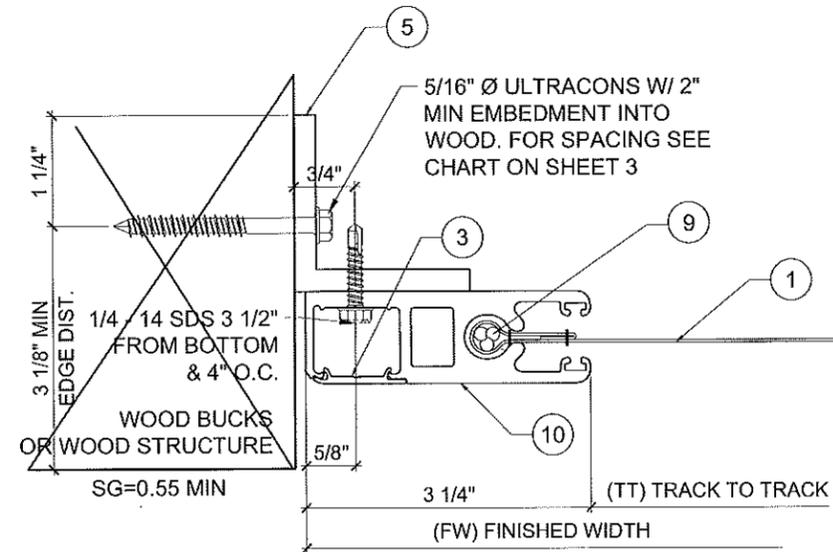


**B** OPTION 4

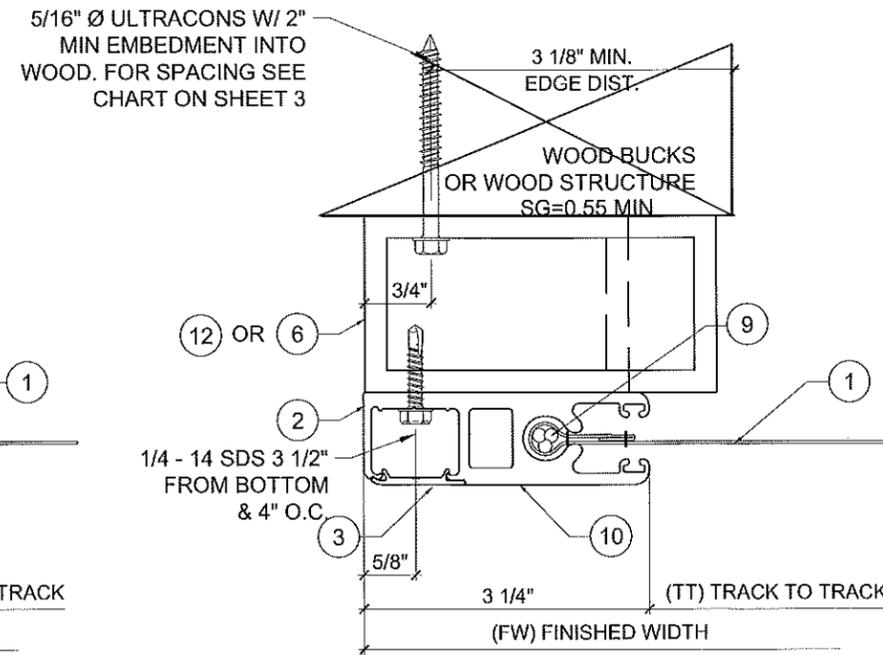


**C** OPTION 4

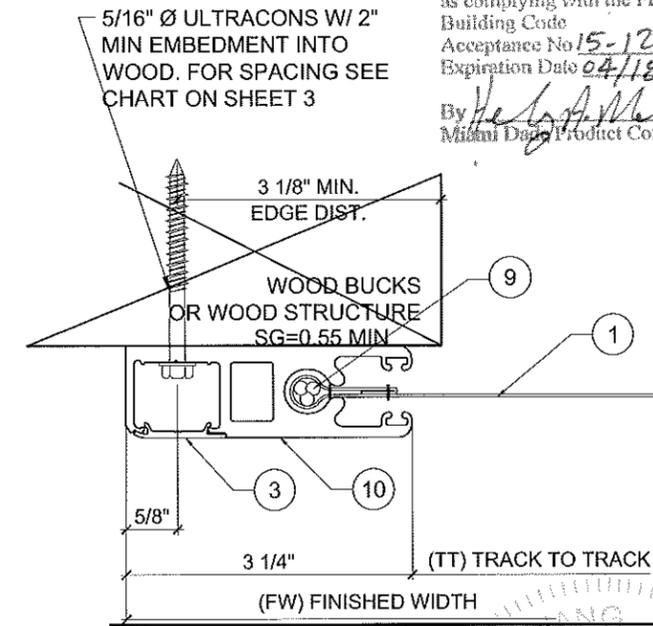
### DETAILS WITH HEAVY DUTY TRACKS



**A** OPTION 4



**B** OPTION 4



**C** OPTION 4

**ANCHOR**  
5/16" DIA. ULTRACONS BY 'ELCO' (Fy=155 ksi Fu = 177 ksi)

### ATTACHMENT TO WOOD

SG=0.55 MIN

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 15-1201.02  
Expiration Date 04/18/2015  
By *Yiping Wang*  
Miami Dade Product Control

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28577

*Yiping Wang*

OCT 15 2015

NO.	DATE	DESCRIPTION
1	10/13/15	UPDATE TO 2014 PFC

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL. 33183 F: 305.921.4786

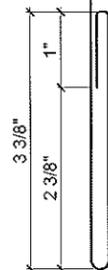
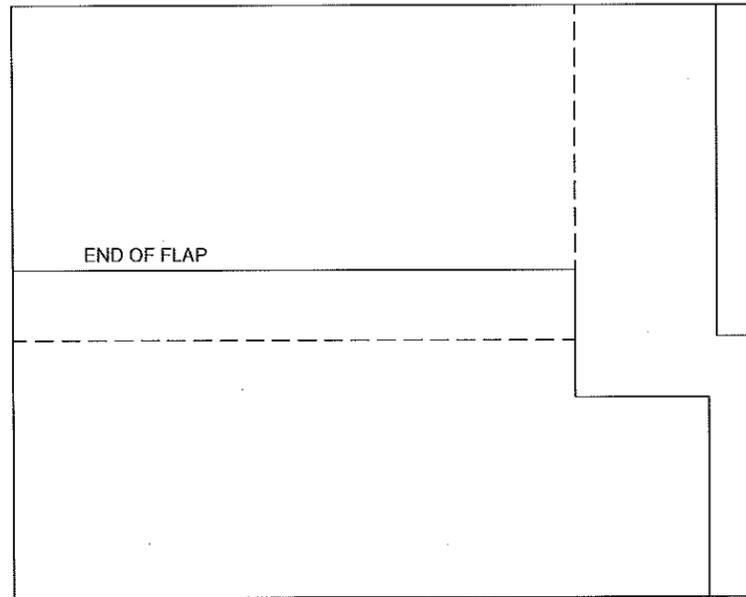
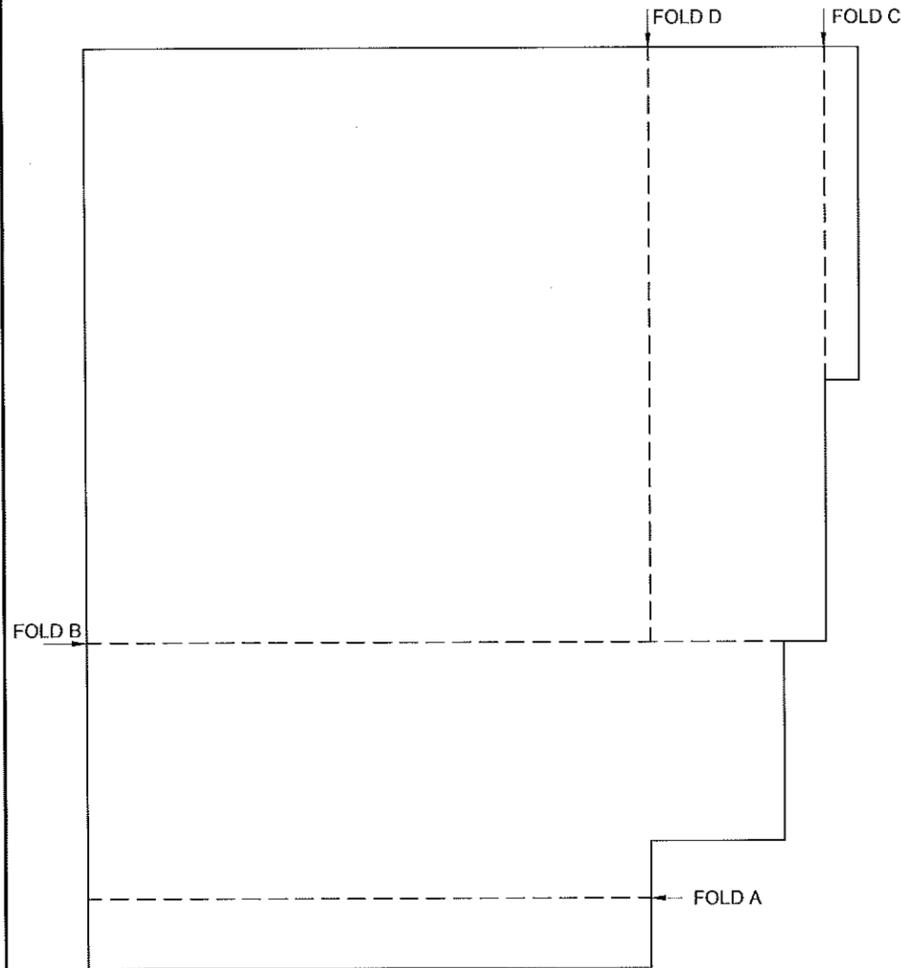
www.MCYEngineering.com MCY.Engineering@Att.net

**GLADIATOR SCREENING SYSTEMS (LMI & SMI)**

**RED OAKS SHUTTER**  
221 SW 5TH CT  
POMPANO BEACH, FL 33060  
P: (954) 782-9325

DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135
DRAWING NO.	AD13-01
SHEET	7 OF 10

MIAMI DADE COUNTY



1 SCREEN BOTTOM EDGE

**SUMMARY OF TEST RESULTS**

TEST STANDARDS	DESCRIPTION	TEST RESULT	MIAMI DADE COUNTY CRITERIA	HURRICANE ENGINEERING AND TESTING NUMBER
ASTM D1929-96	SELF IGNITION TEMPERATURE (SIT)	SIT=751°F	ACCEPTABLE IF >650°F	TEL-01700388C
ASTM D635	RATE OF BURNING (CC1 / C-1)	CC1/C-1 LESS THAN 1.0 IN./MIN.	PASS IF < 1.0 IN./MIN	HETI-12-F108
ASTM D635	AVERAGE TIME OF BURNING	---	---	HETI-12-F108
ASTM D635	AVERAGE EXTENT OF BURNING	---	---	HETI-12-F108
ASTM D2843-99	SMOKE DENSITY (SDR)	SDR=10.6%	ACCEPTABLE IF <75%	TEL-01700388B
ASTM G155-05a	ACCELERATED WEATHERING	+7.2% DIFFERENCE	ACCEPTABLE IF <10%	HETI-12-A403

**BREAKING STRENGTH & ELONGATION OF TEXTILE FABRICS**

TEST	MAX. FORCE	ELONGATION	HURRICANE ENGINEERING AND TESTING NUMBER	
ASTM D638 & ASTM D5035-11	473 lb/in	98.6%	HETI-12-U109	WEAK DIRECTION
ASTM D638 & ASTM D5035-11	438.8 lb/in	94.80%	HETI-12-U108	WEAK DIRECTION
ASTM D1683-11A	231.7 lb/in	25.00%	HETI-12-T123	AT SEWN SEAMS
ASTM D5034-09	742.6 lb/in	19.60%	HETI-12-T122	STRONG DIRECTION
ASTM D5034-09	449.8 lb/in	74.60%	HETI-12-T121	WEAK DIRECTION

OCT 15 2015

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 15-1201-02  
 Expiration Date 04/18/2023  
 By *Heidi A. Mohr*  
 Miami Dade Product Control

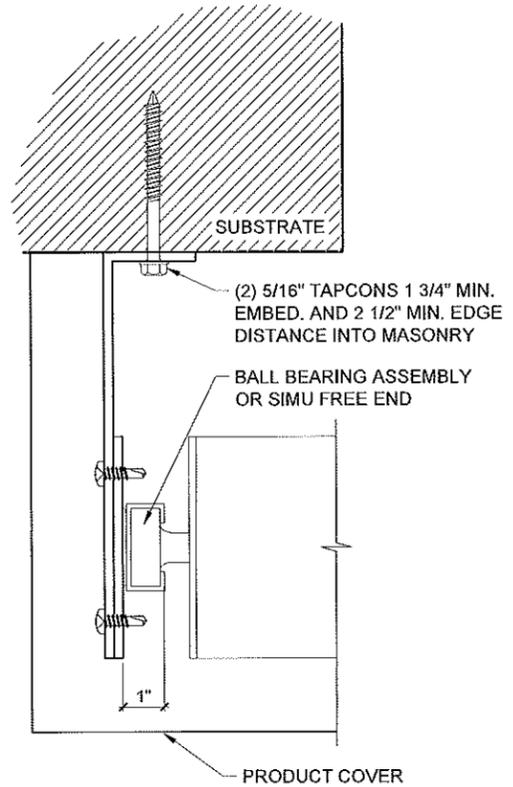
YIPING WANG, P.E.  
 FLORIDA REGISTRATION  
 PE #55983  
 C.A.N. 28677  
 No 55983  
*Yiping Wang*  
 STATE OF FLORIDA

NO.	DATE	DESCRIPTION
A	10/15/15	UPDATE TO 2014 PDC

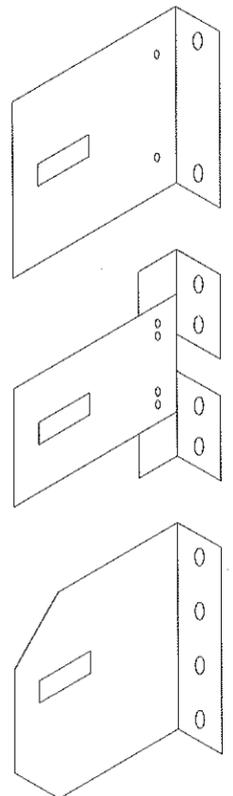
**MCY ENGINEERING, INC.**  
 GLAZING CONSULTANTS  
 8501 SW 124 AVE, STE. 205A P: 305.271.0117  
 MIAMI, FL. 33183 F: 305.921.4786  
 www.MCYEngineering.com MCY.Engineering@Att.net

GLADIATOR SCREENING SYSTEMS (LMI & SMI)  
 RED OAKS SHUTTER  
 221 SW 5TH CT  
 POMPANO BEACH, FL 33060  
 P: (954) 782-9325

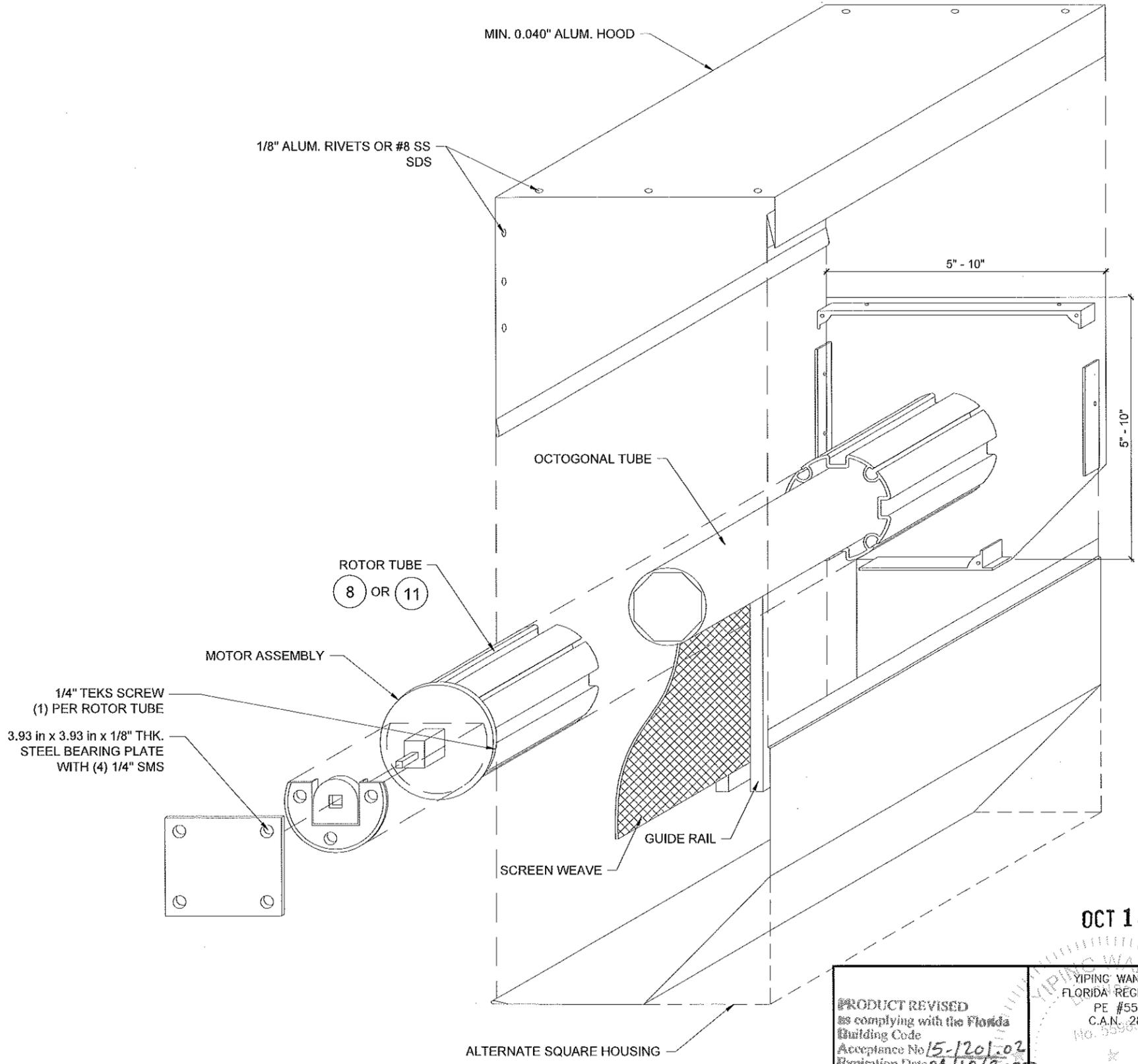
DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135
DRAWING NO.	AD13-01
SHEET	8 OF 10



CUSTOM HOOD / BRACKET WALL MOUNT



WALL MOUNT BRACKET OPTIONS



HOUSING ASSEMBLY DETAIL - OPTION  
NOT PART OF THIS NOA

NO.	DATE	DESCRIPTION
1	10/13/15	UPDATE TO 804 PFC

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL. 33183 F: 305.921.4786  
www.MCYEngineering.com MCY.Engineering@Att.net

GLADIATOR SCREENING SYSTEMS (LMI & SMI)  
**RED OAKS SHUTTER**  
221 SW 5TH CT  
POMPANO BEACH, FL 33060  
P: (954) 782-9325

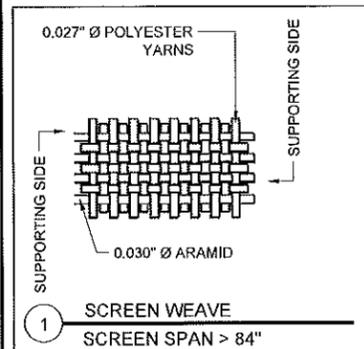
DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135
DRAWING NO.	AD13-01
SHEET	9 OF 10

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 15-1201-02  
Expiration Date 04/18/2023  
By *Heidi Miller*  
Miami Design Product Control

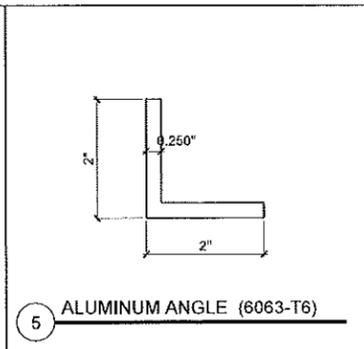
YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
No. 35969

OCT 15 2015

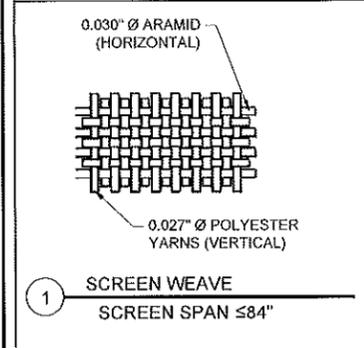
MIAMI DADE COUNTY



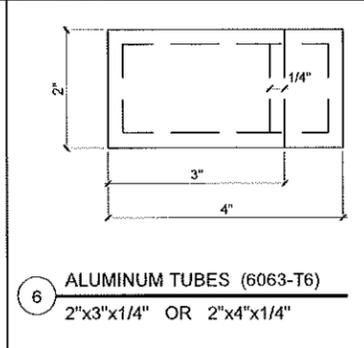
1 SCREEN WEAVE  
SCREEN SPAN > 84"



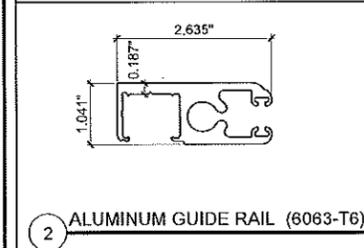
5 ALUMINUM ANGLE (6063-T6)



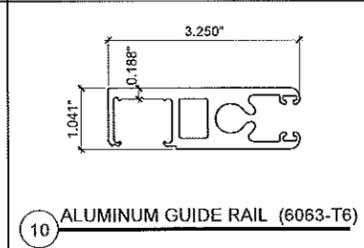
1 SCREEN WEAVE  
SCREEN SPAN ≤ 84"



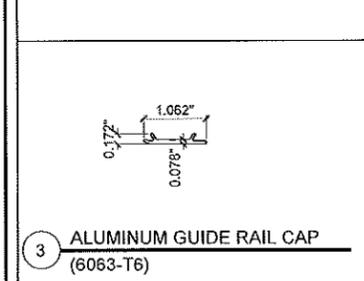
6 ALUMINUM TUBES (6063-T6)  
2"x3"x1/4" OR 2"x4"x1/4"



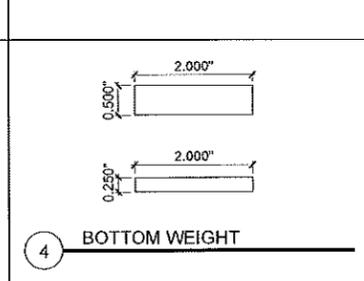
2 ALUMINUM GUIDE RAIL (6063-T6)



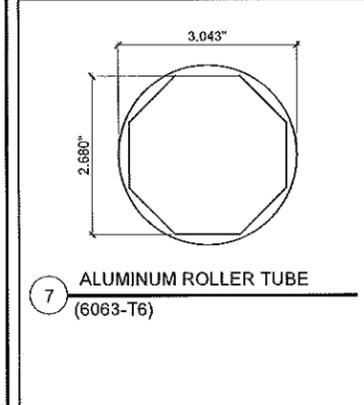
10 ALUMINUM GUIDE RAIL (6063-T6)



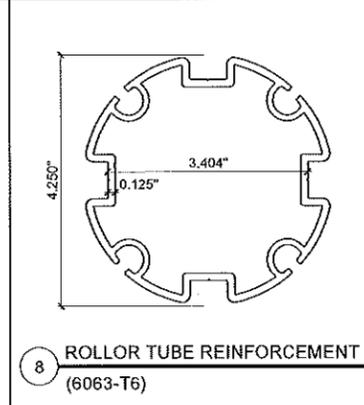
3 ALUMINUM GUIDE RAIL CAP  
(6063-T6)



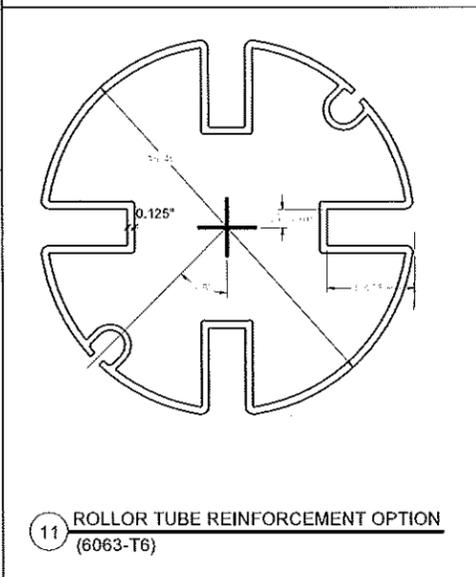
4 BOTTOM WEIGHT



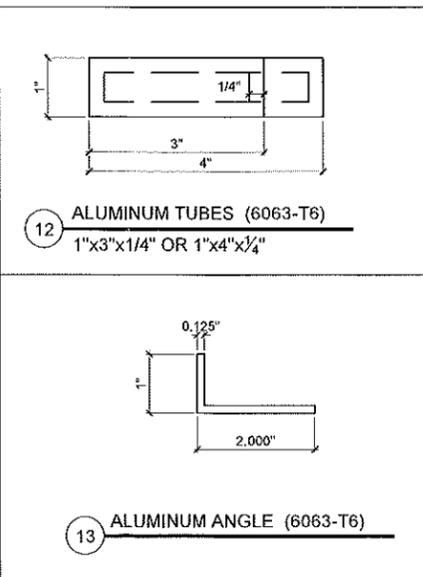
7 ALUMINUM ROLLER TUBE  
(6063-T6)



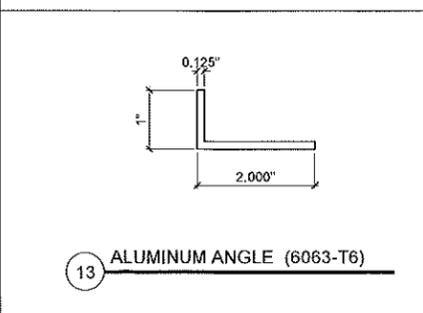
8 ROLLOR TUBE REINFORCEMENT  
(6063-T6)



11 ROLLOR TUBE REINFORCEMENT OPTION  
(6063-T6)



12 ALUMINUM TUBES (6063-T6)  
1"x3"x1/4" OR 1"x4"x1/4"



13 ALUMINUM ANGLE (6063-T6)

# BILL OF MATERIALS

ITEM #	QTY.	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	AS REQD.	T03A15899	SCREEN WOVEN	POLYESTER	0.045" THICK / TWITCHELL CORP.
2	2 EACH	-	STANDARD GUIDE RAIL	ALUM. 6063-T6	KAPCA VENTURES, LLC.
3	2 EACH	-	GUIDE RAIL CAP	ALUM. 6063-T6	KAPCA VENTURES, LLC.
4	1 OR 2 EACH	-	BOTTOM WEIGHT	STEEL OR ALUMINUM	KAPCA VENTURES, LLC.
5	AS REQD.	-	ALUMINUM ANGLE	ALUM. 6063-T6	KAPCA VENTURES, LLC.
6	AS REQD.	-	ALUMINUM TUBE	ALUM. 6063-T6	KAPCA VENTURES, LLC.
7	AS REQD.	-	ROLLER TUBE	ALUM. 6063-T6	KAPCA VENTURES, LLC.
8	AS REQD.	-	ROLLER TUBE REINFORCEMENT	ALUM. 6063-T6	KAPCA VENTURES, LLC.
9	1 PER SIDE	0.325 DIA.	(3) 5/16"-STRAND STWISTED ROPE	POLYPROPYLENE	KAPCA VENTURES, LLC.
10	2 EACH	-	HEAVE DUTY GUIDE RAIL	ALUM. 6063-T6	KAPCA VENTURES, LLC.
11	AS REQD.	-	ROLLER TUBE REINFORCEMENT	ALUM. 6063-T6	KAPCA VENTURES, LLC.
12	AS REQD.	-	ALUMINUM TUBE	ALUM. 6063-T6	KAPCA VENTURES, LLC.
13	AS REQD.	-	ALUMINUM ANGLE 1"x2"x1/8"	ALUM. 6063-T6	KAPCA VENTURES, LLC.

NOTE: ROLLER TUBE REINFORCEMENT CONTINUOUS WHEN SCREEN WIDTH ≥ 150" OTHERWISE 2" LONG AT 24" O.C.

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No 15-1201.02  
Expiration Date 04/18/2023  
By *Heidi A. Miller*  
Miami Dade Product Control

OCT 15 2015

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
No 55983

MIAMI DADE COUNTY

REVISIONS	NO	DATE	DESCRIPTION
	A	10/12/15	UPDATE TO 2014 FBC

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117  
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GLADIATOR SCREENING SYSTEMS (LMI & SMI)  
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P: (954) 782-9325

DATE	04-03-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 12-135
DRAWING NO.	AD13-01
SHEET	10 OF 10