



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING**

**140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

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

**Hendee Enterprises, Inc.  
9350 South Point Drive  
Houston, TX 77054**

**SCOPE:**

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

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

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

**DESCRIPTION: "Force 12" Flexible Wind Abatement Screen System**

**APPROVAL DOCUMENT:** Drawing No. F12, titled "Force 12 Flexible Wind Abatement Screen System", sheets 1 through 15 of 15, last revision #2 dated March 16, 2009, signed & sealed by James R. Bailey, P.E., on March 24, 2009 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 Division.

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

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 # 04-0413.04 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

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



*Helmy A. Makar*  
04/22/2009

**NOA No. 06-1214.03  
Expiration Date: 08/29/2009  
Approval Date: 04/22/2009**

**Hendee Enterprises, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0929.12**

**A. DRAWINGS**

1. *Drawing No. F1201, titled "Force 12", prepared by Absolute Engineering Group CA-7895, dated May 3, 2000, last revision #5 dated July 19, 2001, sheets 1 through 9 of 9, signed and sealed by Robert R. Bullard, P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Static Wind Pressure Test of Hendee Enterprises Force 12 Protective Screen System, prepared by National Certified Testing Laboratories, Report No. NCTL 210-2310-1, 2, 3, dated May 2, 2001, signed and sealed by Barry Portnoy, P.E.*
2. *Addendum #1 to Test Report No. NCTL 210-2310-1, 2, 3, dated March 2, 2001, signed and sealed by Barry Portnoy, P.E.*
3. *Addendum #2 to Test Report No. NCTL 210-2310-1, 2, 3, dated May 2, 2001, signed and sealed by Barry Portnoy, P.E.*

**C. CALCULATIONS**

1. *Calculations, dated June 7, 2001, page 1 of 1, prepared by Robert R. Bullard, P.E., signed and sealed by Robert R. Bullard, P.E.*

**D. MATERIAL CERTIFICATIONS**

1. *Mill certified Inspection Report with screen's physical properties.*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0419.02**

**A. DRAWINGS**

See NOA 00-0929.12

**B. TESTS**

See NOA 00-0929.12

**C. CALCULATIONS**

See NOA 00-0929.12

**D. MATERIAL CERTIFICATIONS**

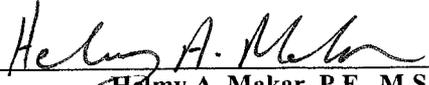
See NOA 00-0929.12

**E. STATEMENTS**

See NOA 00-0929.12

**F. OTHER**

NOA 00-0929.12

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

Senior Product Control Examiner

NOA No. 06-1214.03

Expiration Date: 08/29/2009

Approval Date: 04/22/2009

**Hendee Enterprises, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #04-0413.04**

**A. DRAWINGS**

1. *Drawing No. F1201, titled "Force 12 panel mounting cross sections", sheets 1 thru 9 of 9, dated May 3, 2000, last revision dated 07/19/2001, sheets 1 to 4, and 06/26/2001, sheets 5 to 9, all prepared, signed & sealed by Robert R. Bullard, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**4. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. F12, titled "Force 12 Flexible Wind Abatement Screen System", sheets 1 through 15 of 15, last revision #2 dated March 16, 2009, signed & sealed by James R. Bailey, P.E., on March 24, 2009.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

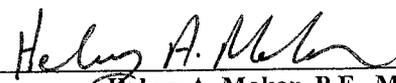
1. *Calculations, dated September 11, 2007, page 1 through 17 of 17, prepared by Scott Wolters, P.E., signed and sealed by Scott Wolters, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

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

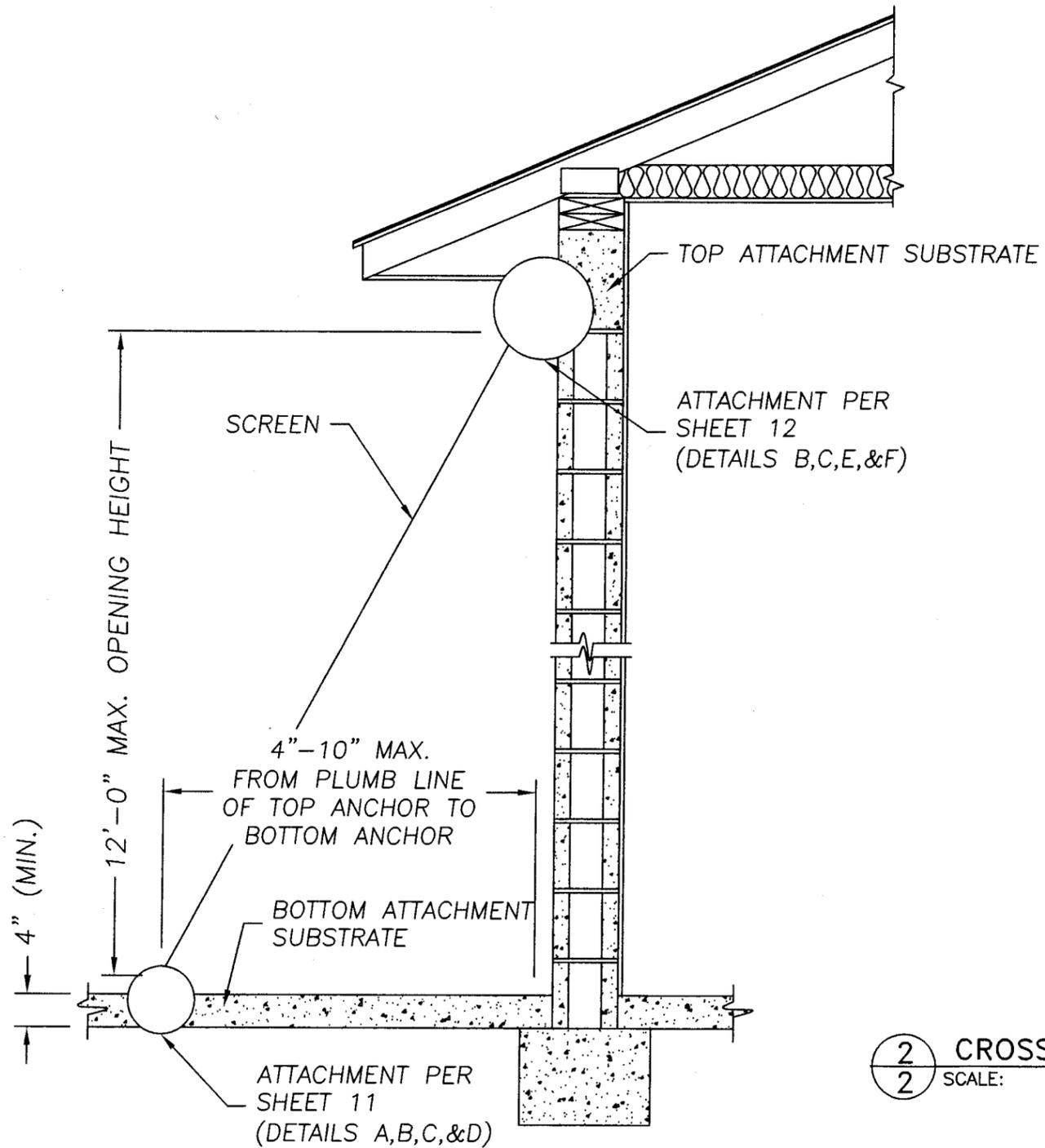
Senior Product Control Examiner

NOA No. 06-1214.03

Expiration Date: 08/29/2009

Approval Date: 04/22/2009

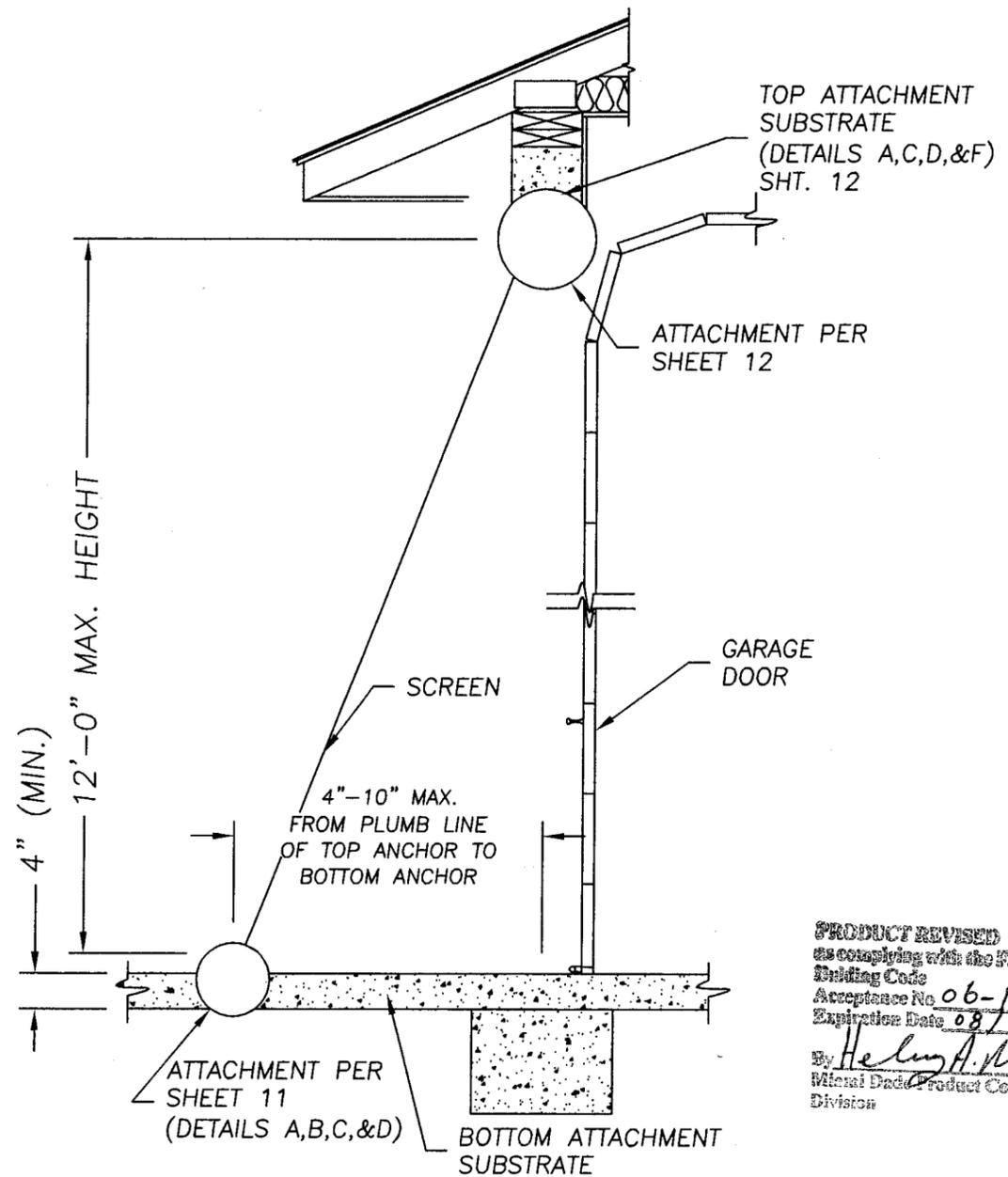




1 SECTION VIEW OF ANGLE MOUNTED SCREEN  
 2 SCALE: NTS = 1'-0"

JAMES R. BAILEY, Ph.D., P.E.  
 PLATINUM RISK CONSULTING LLC  
 4931 CHAPPEL HILL DR.  
 MISSOURI CITY, TX 77459  
 PHONE: 281-403-2825  
 FL COA NO. 28156  
 FL P.E. NO. 67773

*James R. Bailey* 3/24/04



2 CROSS SECTION OF ANG. MOUNTED SCREEN (SIDE VIEW/GARAGE DOOR)  
 2 SCALE: NTS = 1'-0"

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 06-1214.03  
 Expiration Date 08/29/2009  
 By *Helmut A. Mohr*  
 Mineral Products Control  
 Division

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

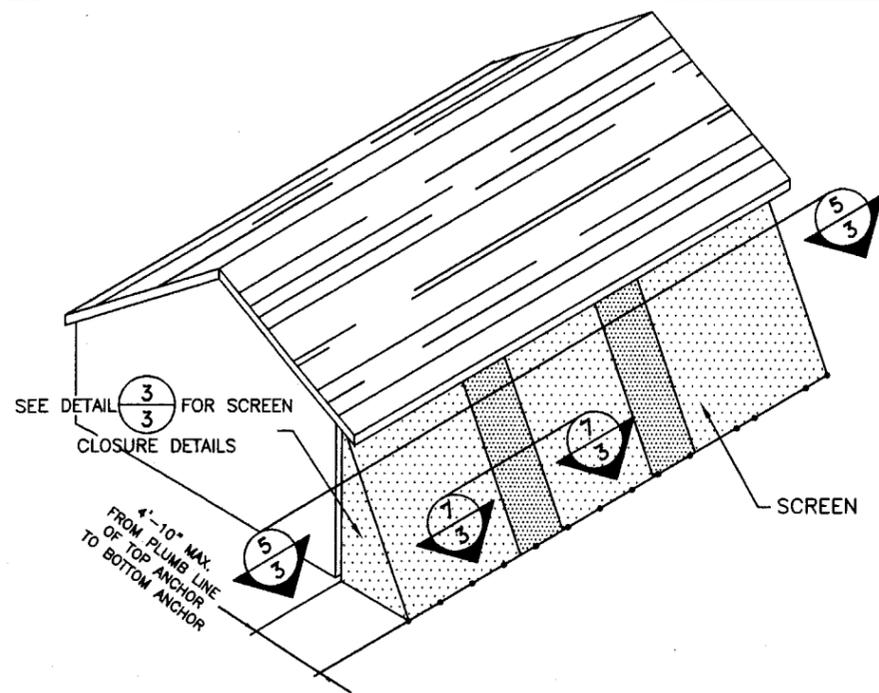
**Hendee Enterprises, Inc.**  
 The Innovative Solutions Company

P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

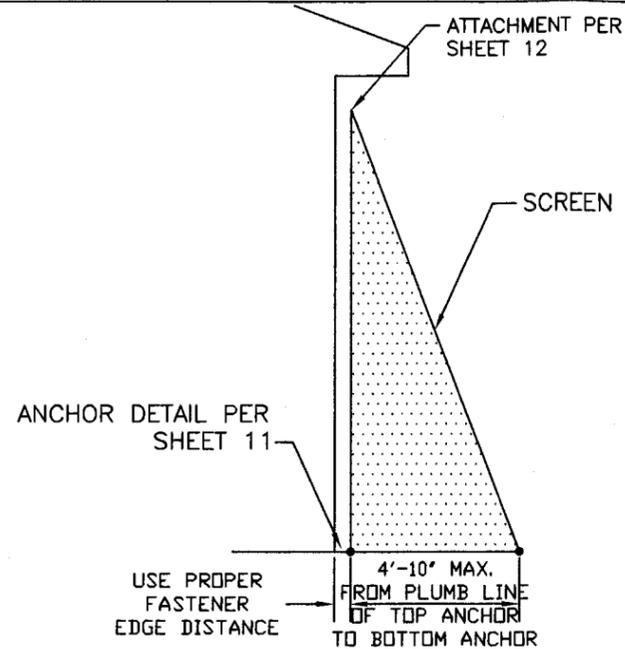
TITLE: FORCE 12  
 ANGLED SCREEN MOUNTING CROSS SECTIONS

CLIENT: VARIES  
 LOCATION: VARIES

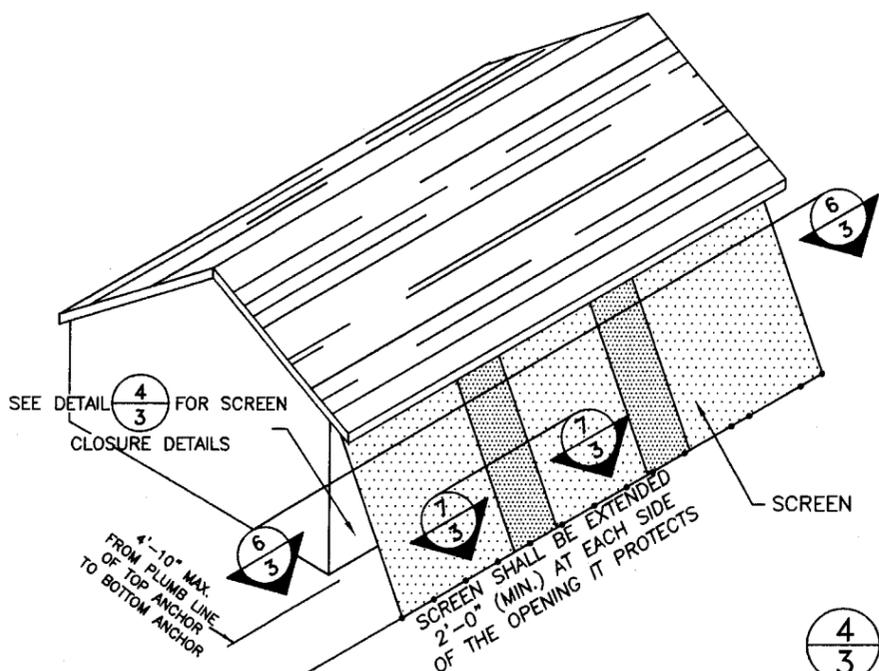
DRAWN BY: AD SCALE: NTS = 1'-0" SHEET 2 OF 15  
 DATE: 03/16/09 DOCUMENT NO: F12\_2001\_3 REV: 2



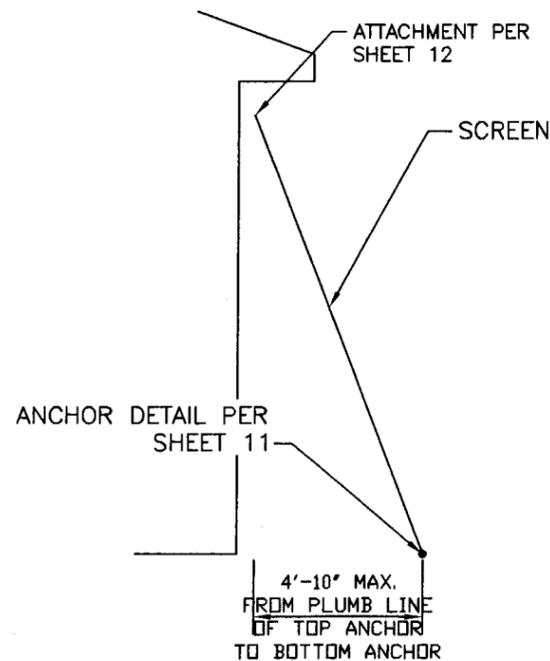
**1** SCREEN WITH SIDE CLOSURE SCREEN  
**3** SCALE: NTS = 1'-0"



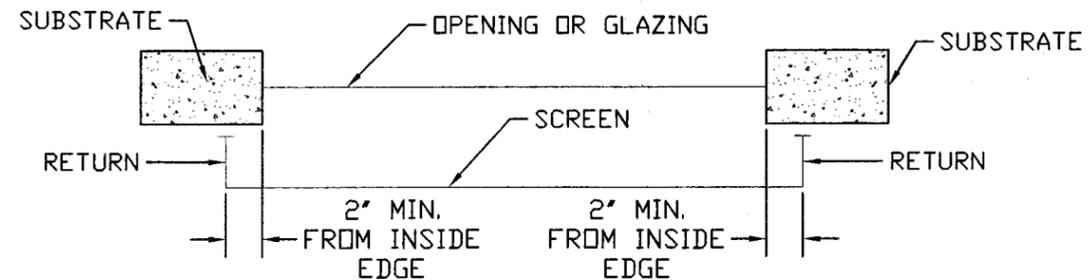
**3** SIDE CLOSURE SCREEN  
**3** SCALE: NTS = 1'-0"



**2** SCREEN WITHOUT SIDE CLOSURE SCREEN  
**3** SCALE: NTS = 1'-0"

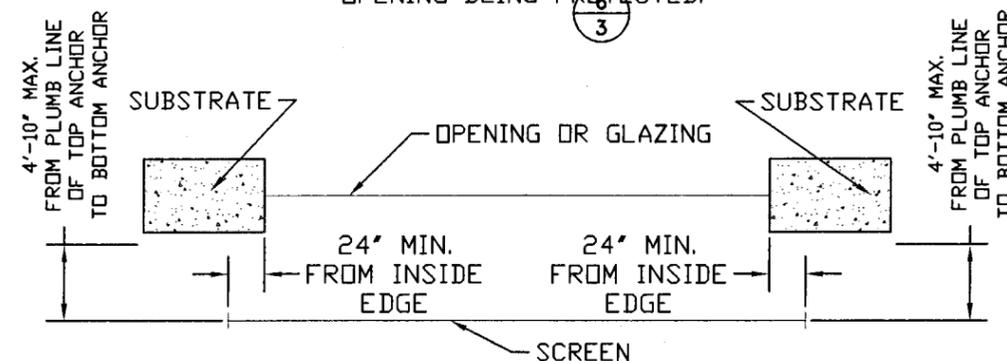


**4** SIDE CLOSURE SCREEN - NO RETURN  
**3** SCALE: NTS = 1'-0"

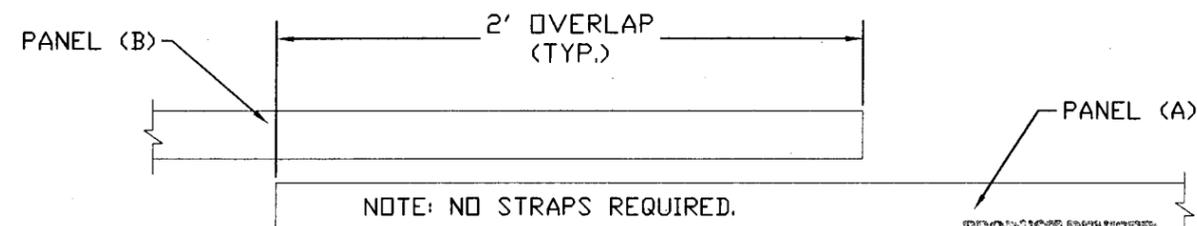


**5** ANGLED SCREEN CLOSURE WITH RETURN (PLAN VIEW)  
**3** SCALE: NTS = 1'-0"

NOTE: SCREEN CLOSURE WITH RETURN OR (MIN) 24' OVERLAP OF OPENING BEING PROTECTED.



**6** ANGLED SCREEN CLOSURE - NO RETURN (PLAN VIEW)  
**3** SCALE: NTS = 1'-0"



**7** PANEL OVERLAP - SECTION  
**3** SCALE: NTS = 1'-0"

PRODUCT ADVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 66-1214.03  
 Expiration Date 08/29/2009  
 By: *Helmy A. Nelson*  
 Miami Data Product Control  
 Division

JAMES R. BAILEY, Ph.D., P.E.  
 PLATINUM RISK CONSULTING LLC  
 4931 CHAPPEL HILL DR.  
 MISSOURI CITY, TX 77459  
 PHONE: 281-403-2825  
 FL COA NO. 28156  
 FL P.E. NO. 67773

*James R. Bailey 3/24/09*

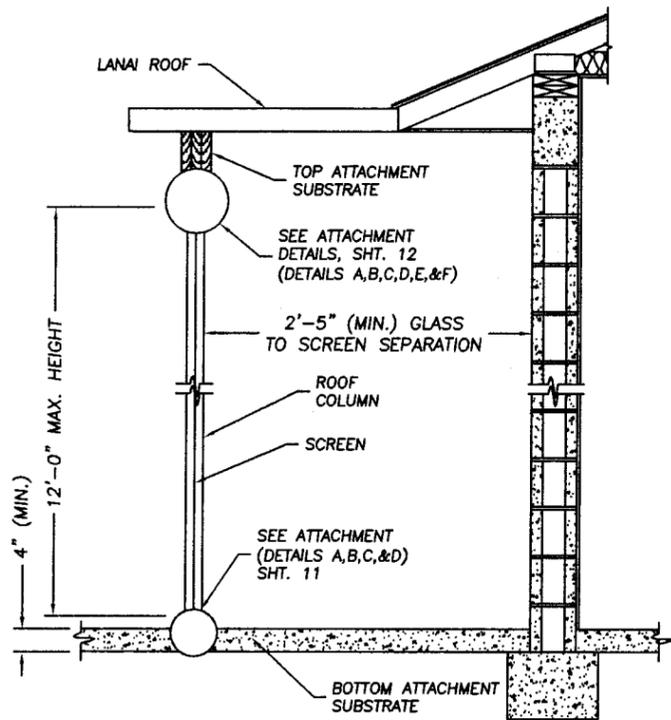
REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

**HE** Hendee Enterprises, Inc.  
 The Innovative Solutions Company  
 P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

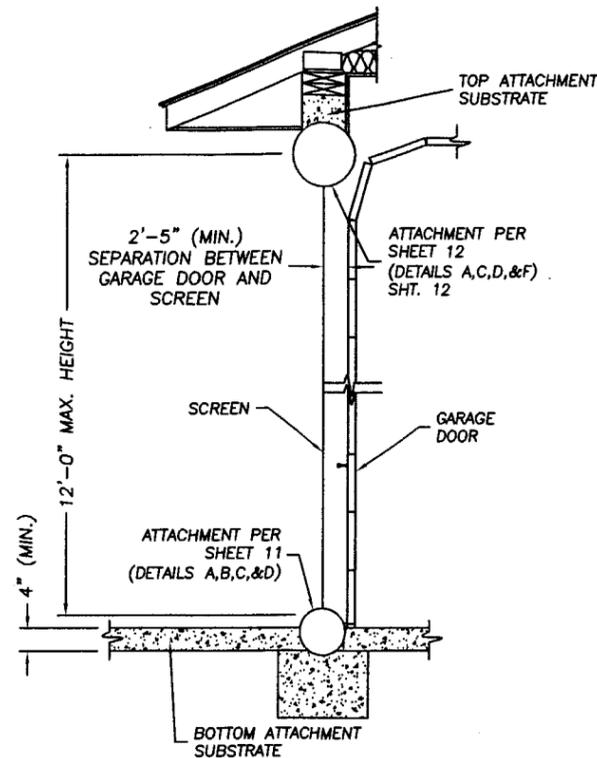
TITLE: FORCE 12  
 CLOSURE DETAILS FOR ANGLED SCREEN

CLIENT: VARIES  
 LOCATION: VARIES

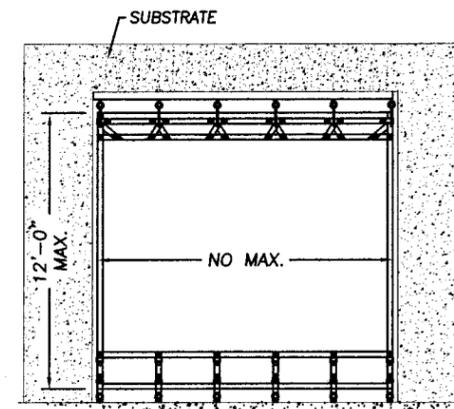
DRAWN BY: AD SCALE: NTS SHEET 3 OF 15  
 DATE: 03/16/09 DOCUMENT NO: F12\_2001\_2 REV: 2



1 CROSS SECTION OF VERT. MOUNTED STRAIGHT DROP SCREEN (SIDE VIEW)/LANAI  
 4 SCALE: NTS=1'-0"

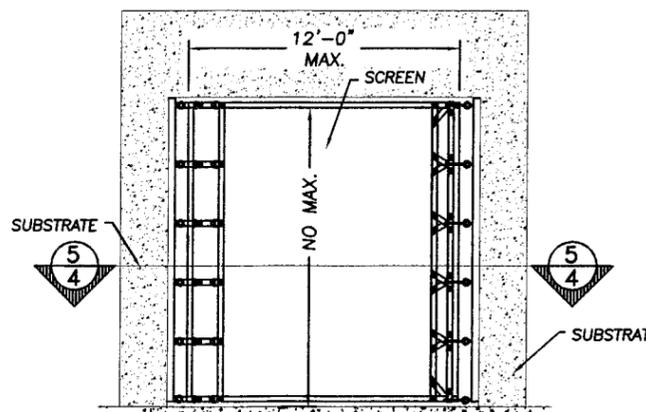


2 CROSS SECTION OF VERT. MOUNTED STRAIGHT DROP SCREEN (SIDE VIEW/GARAGE DOOR)  
 4 SCALE: NTS=1'-0"

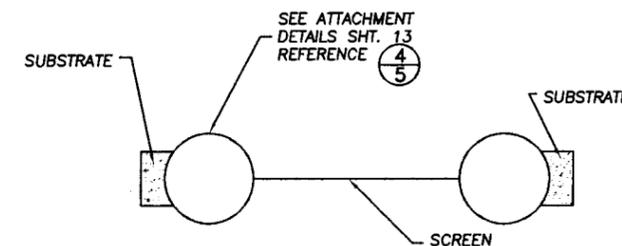


3 VERT. MOUNTED STRAIGHT DROP SCREEN (ELEVATION)  
 4 SCALE: NTS=1'-0"

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 06-1214.03  
 Expiration Date 08/29/2009  
 By: *Healy A. Healy*  
 Miami Dade District Control  
 Division



4 HOR. MOUNTED STRAIGHT DROP SCREEN (ELEVATION)  
 4 SCALE: NTS=1'-0"



5 SECTION OF HOR. MOUNTED STRAIGHT DROP SCREEN (PLAN VIEW)  
 4 SCALE: NTS=1'-0"

\*\*IF THE SUBSTRATE IS NOT A CONTINUOUS Laterally-SUPPORTED WALL MADE OF STRUCTURAL TIMBER FRAMING, RE-ENFORCED CONCRETE, OR RE-ENFORCED CONCRETE BLOCK OR THE SUBSTRATE IS A COLUMN WITHOUT INTERMEDIATE LATERAL SUPPORT, THEN A LICENSED PROFESSIONAL ENGINEER IS TO DETERMINE IF COLUMN/SUBSTRATE CAN RESIST APPLIED LOADS FROM THE SCREEN AS REQUIRED BY CODE.

JAMES R. BAILEY, Ph.D., P.E.  
 PLATINUM RISK CONSULTING LLC  
 4931 CHAPPEL HILL DR.  
 MISSOURI CITY, TX 77459  
 PHONE: 281-403-2825  
 FL COA NO. 28156  
 FL P.E. NO. 67773

*James R. Bailey*  
 7/3/24/09

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

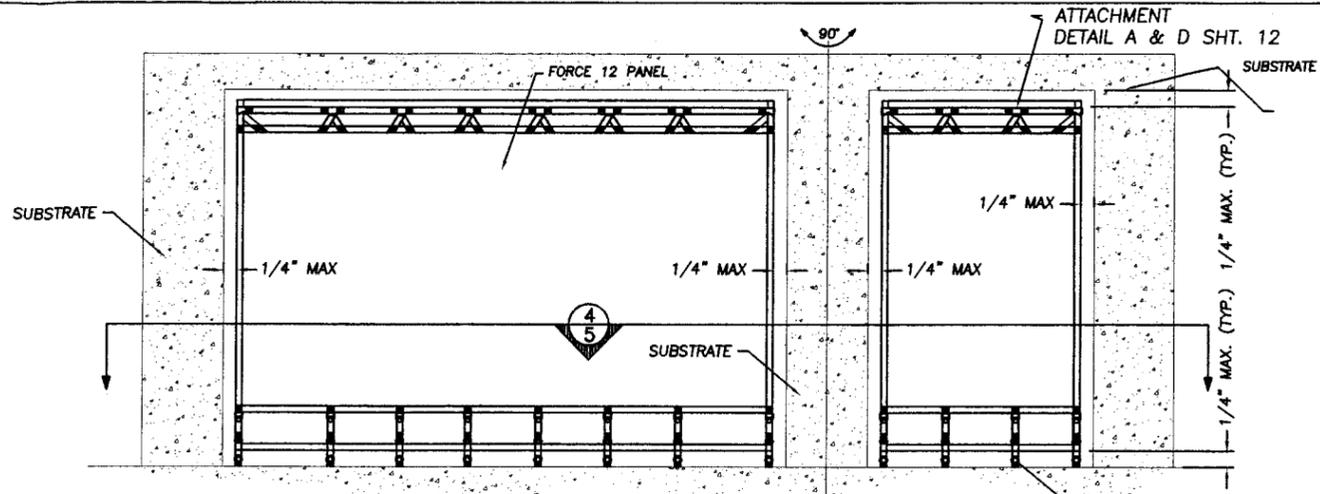
**HE** Hendee Enterprises, Inc.  
 The Innovative Solutions Company

P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

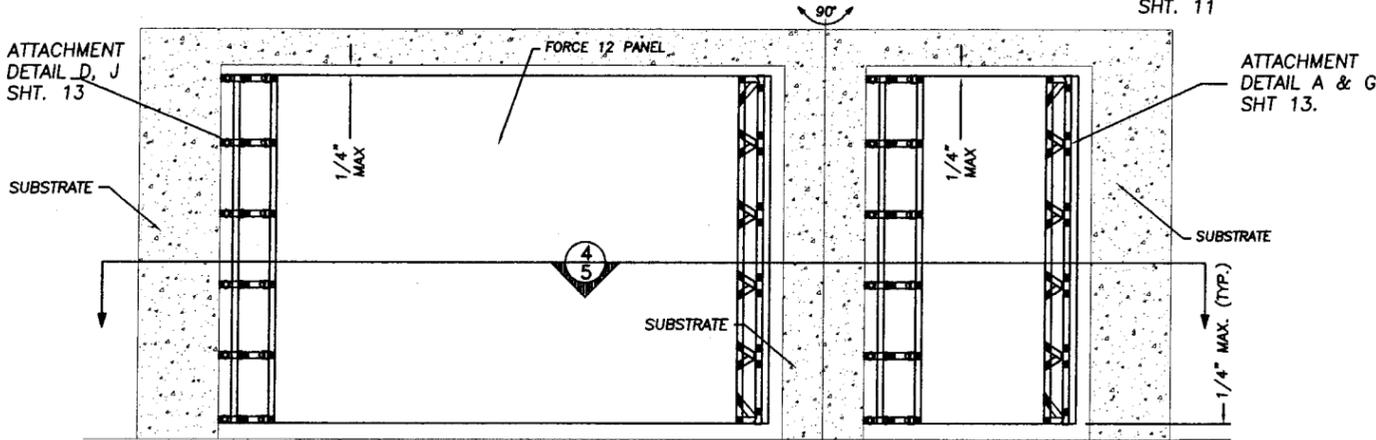
TITLE: FORCE 12  
 STRAIGHT DROP SCREEN MOUNTING CROSS SECTIONS

CLIENT: VARIES  
 LOCATION: VARIES

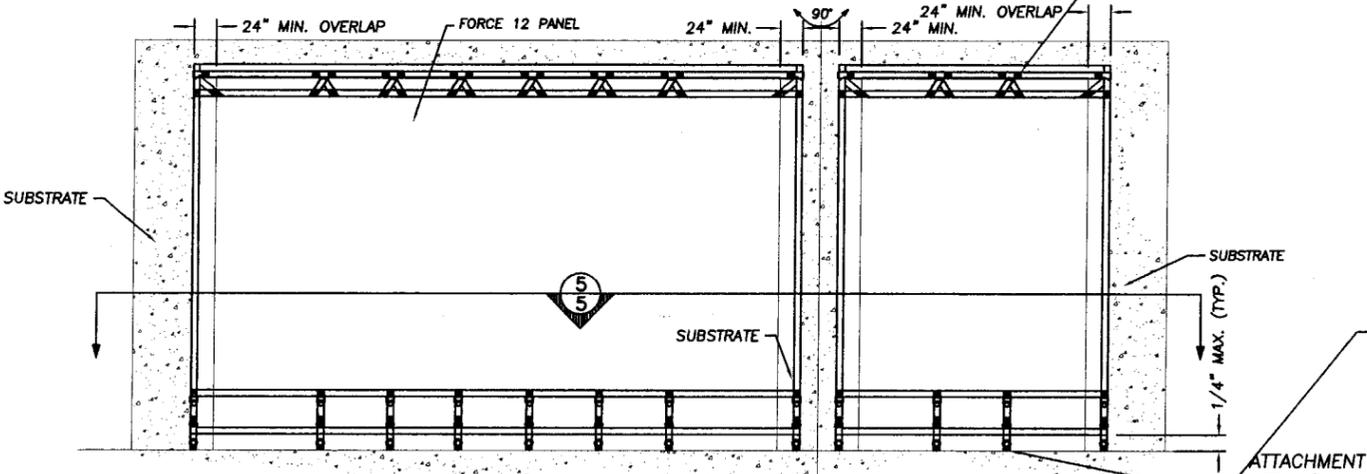
DRAWN BY: AD SCALE: NTS= 1'-0" SHEET 4 OF 15  
 DATE: 03/16/09 DOCUMENT NO: F12\_2001\_3 REV: 2



1 STRAIGHT DROP FORCE 12 PANEL (VERT. MOUNT, FRONT/SIDE ELEVATION)  
SCALE: NTS=1'-0"



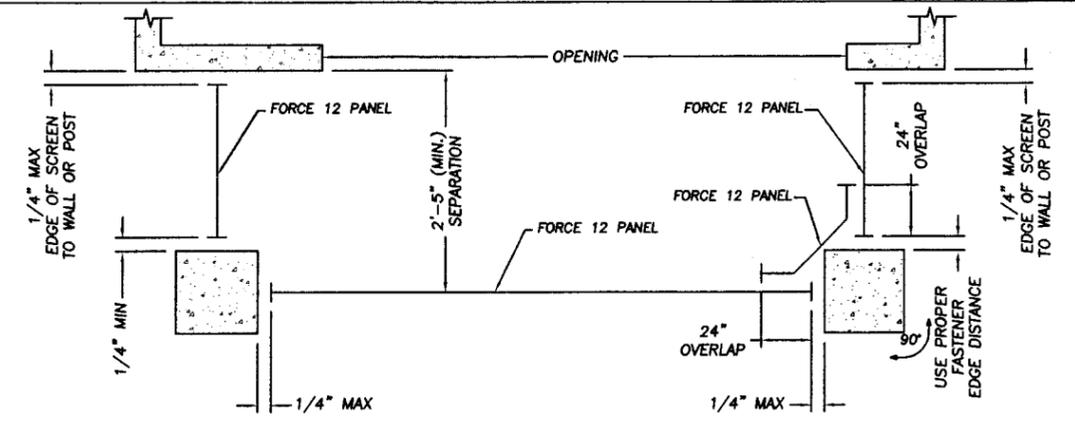
2 STRAIGHT DROP FORCE 12 PANEL (HOR. MOUNT, FRONT/SIDE ELEVATION)  
SCALE: NTS=1'-0"



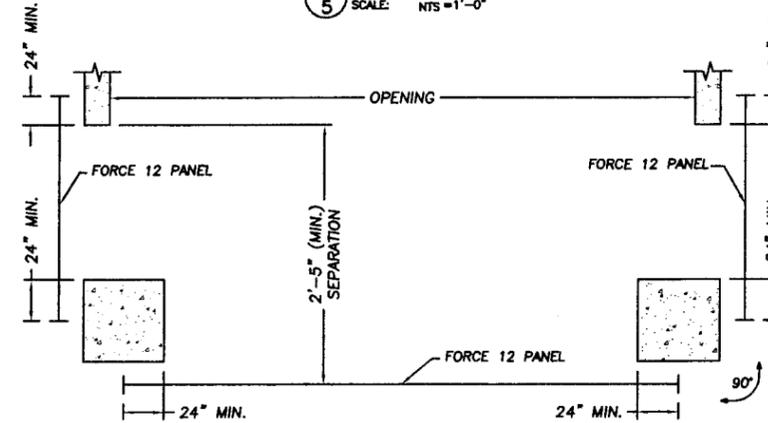
3 STRAIGHT DROP FORCE 12 PANEL (PAST OPENING MOUNT, VER. MOUNT, FRONT/SIDE ELEVATION)  
SCALE: NTS=1'-0"

JAMES R. BAILEY, Ph.D., P.E.  
PLATINUM RISK CONSULTING LLC  
4931 CHAPPEL HILL DR.  
MISSOURI CITY, TX 77459  
PHONE: 281-403-2825  
FL COA NO. 28156  
FL P.E. NO. 67773

*James R. Bailey*  
3/24/09

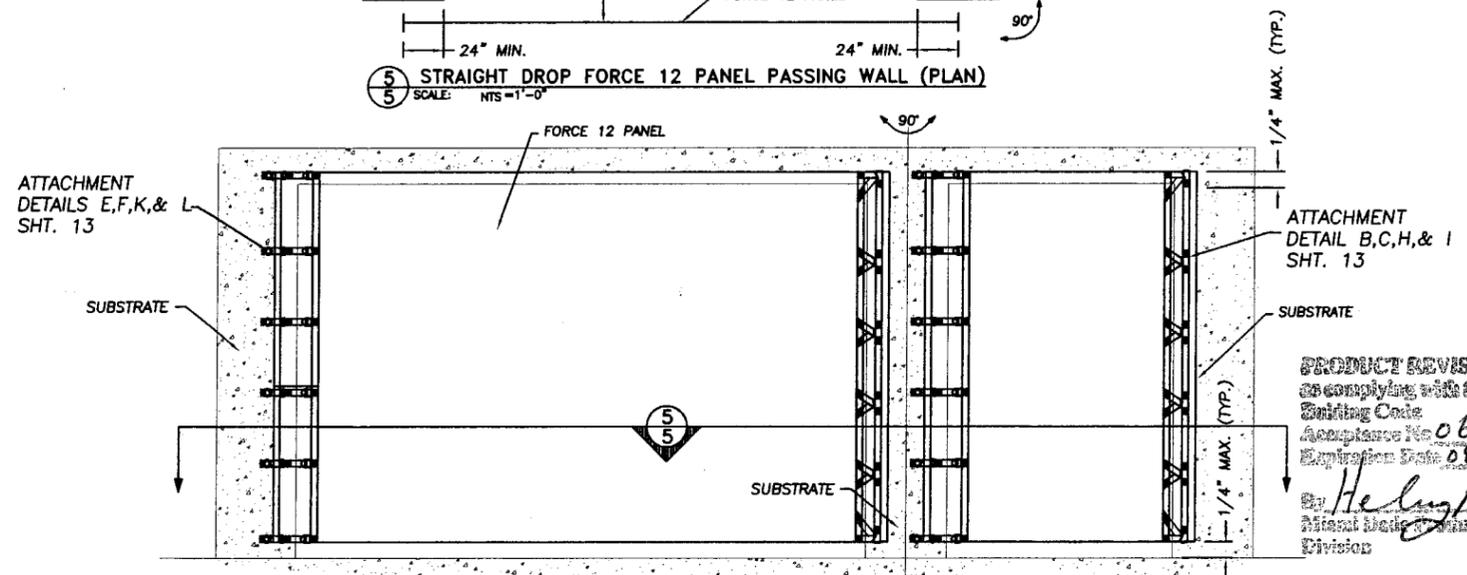


4 STRAIGHT DROP FORCE 12 PANEL INSIDE OF WALLS/POST (PLAN)  
SCALE: NTS=1'-0"



5 STRAIGHT DROP FORCE 12 PANEL PASSING WALL (PLAN)  
SCALE: NTS=1'-0"

NOTE: SCREEN CLOSURE WITH RETURN OR (MIN) 24" OVERLAP OF OPENING BEING PROTECTED.



6 STRAIGHT DROP FORCE 12 PANEL (PAST OPENING MOUNT, HOR. MOUNT, FRONT/SIDE ELEVATION)  
SCALE: NTS=1'-0"

PRODUCT ADVISED  
as complying with the Florida  
Building Code  
Acceptance No. 06-1214.03  
Expiration Date 08/29/2009  
By: *Healy A. Healy*  
Hendee Enterprises, Inc.  
Division

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

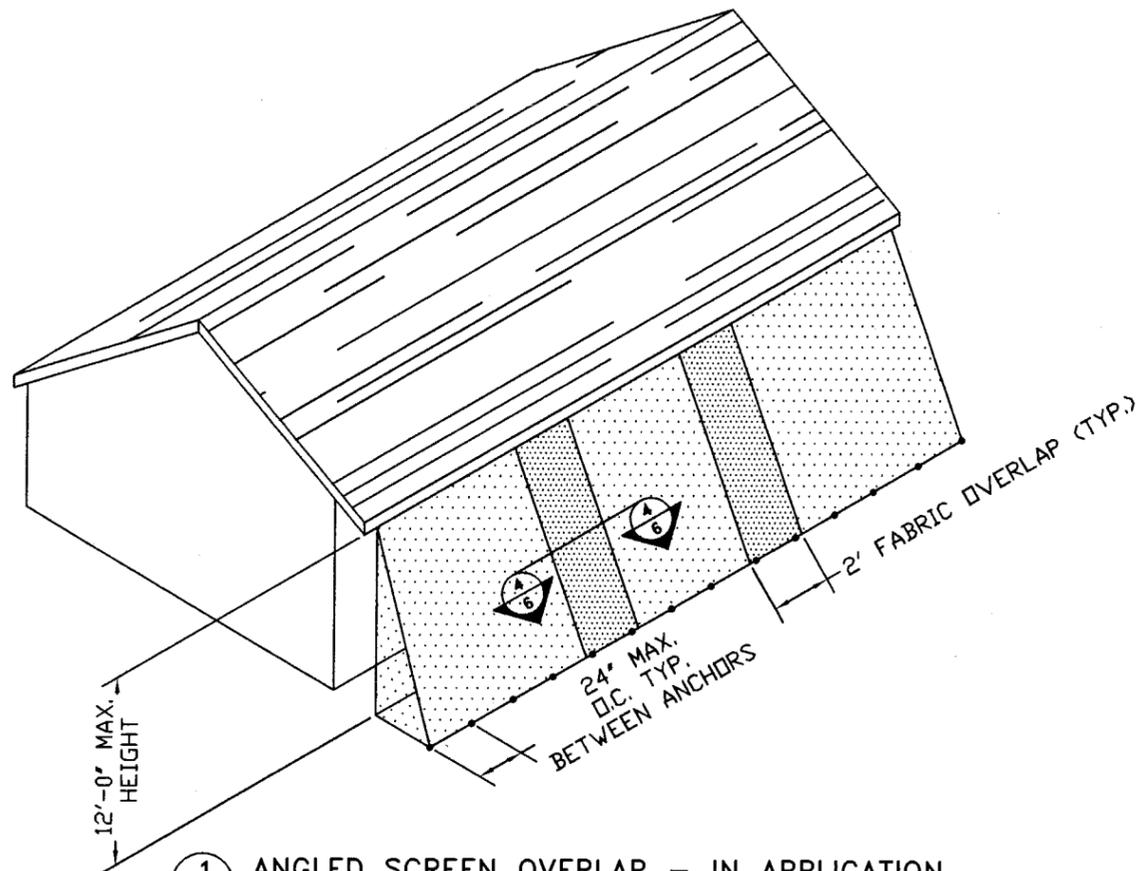
**HE** Hendee Enterprises, Inc.  
The Innovative Solutions Company

P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
(713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

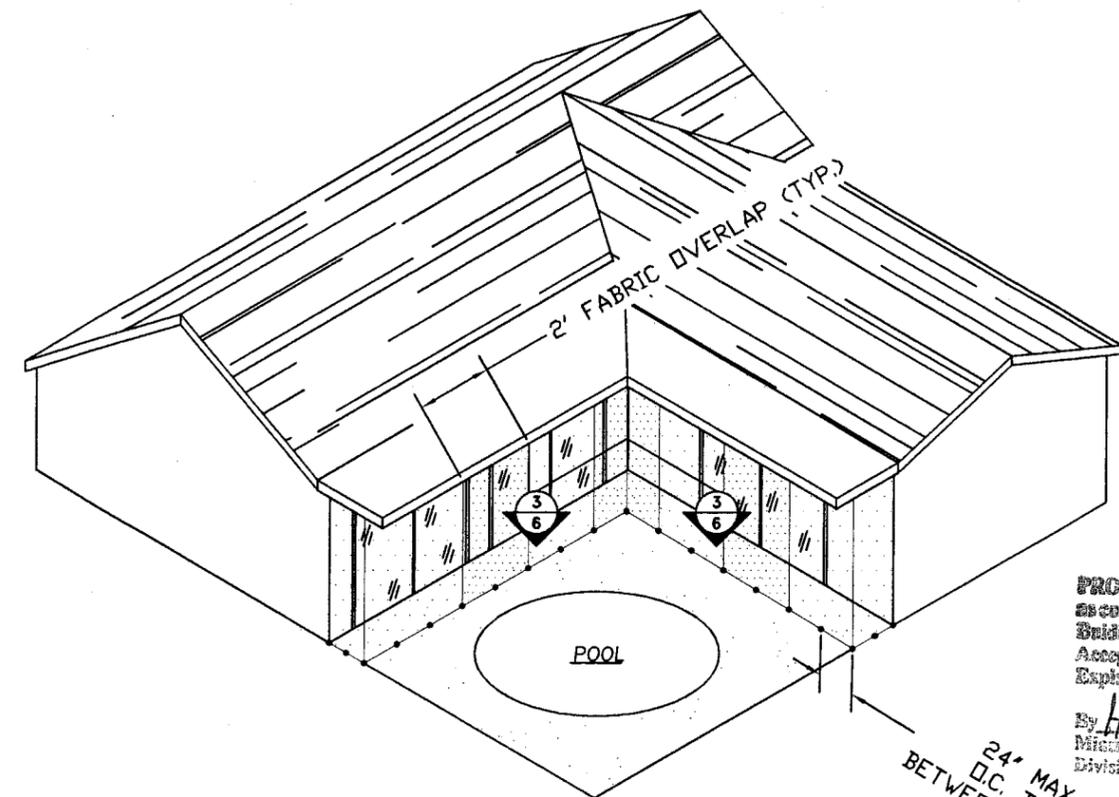
TITLE: FORCE 12 - STRAIGHT DROP  
SCREEN MOUNTING ELEVATIONS/CROSS SECTIONS

CLIENT: VARIES  
LOCATION: VARIES

DRAWN BY: AD SCALE: NTS= 1'-0" SHEET 5 OF 15  
DATE: 03/16/09 DOCUMENT NO: F12\_2001\_3 REV: 2

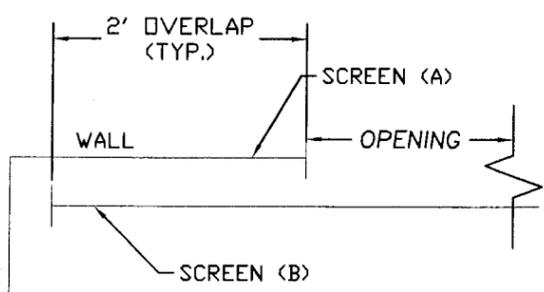


1 ANGLLED SCREEN OVERLAP - IN APPLICATION  
 6 SCALE: NTS = 1'-0"



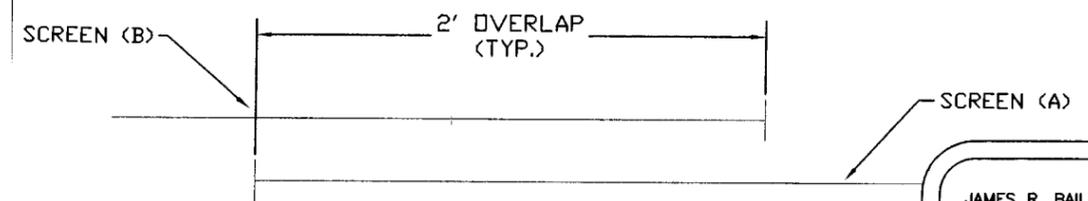
2 VERTICAL SCREEN CORNER OVERLAP - IN APPLICATION  
 6 SCALE: NTS = 1'-0"

PRODUCT REVIEWED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 06-1214.03  
 Expiration Date 08/29/2009  
 By *Healy A. Healy*  
 Miami Dade Product Control  
 Division



NOTE: NO STRAPS REQUIRED  
 TO JOIN OVERLAPPING SCREENS

3 CORNER PANEL OVERLAP (PLAN VIEW)  
 6 SCALE: NTS = 1'-0"



NOTE: NO STRAPS REQUIRED  
 TO JOIN OVERLAPPING SCREENS

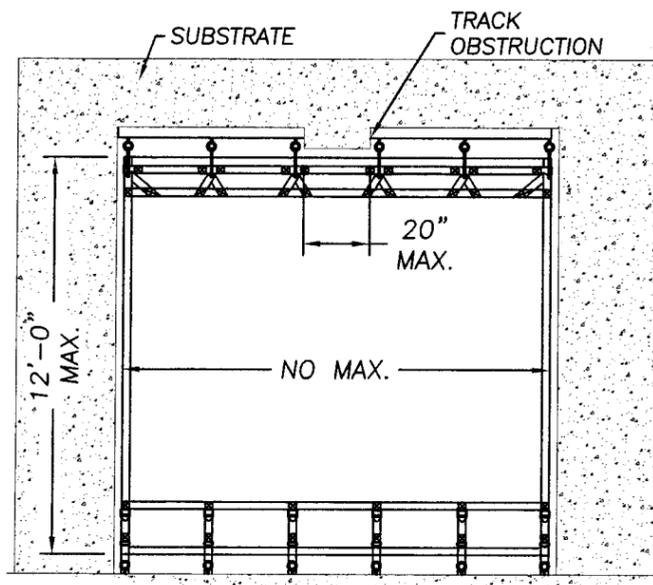
4 SCREEN OVERLAP - SECTION  
 6 SCALE: NTS = 1'-0"

JAMES R. BAILEY, Ph.D., P.E.  
 PLATINUM RISK CONSULTING LLC  
 4931 CHAPPEL HILL DR.  
 MISSOURI CITY, TX 77459  
 PHONE: 281-403-2825  
 FL COA NO. 28156  
 FL P.E. NO. 67773  
*James R. Bailey*  
 3/24/09

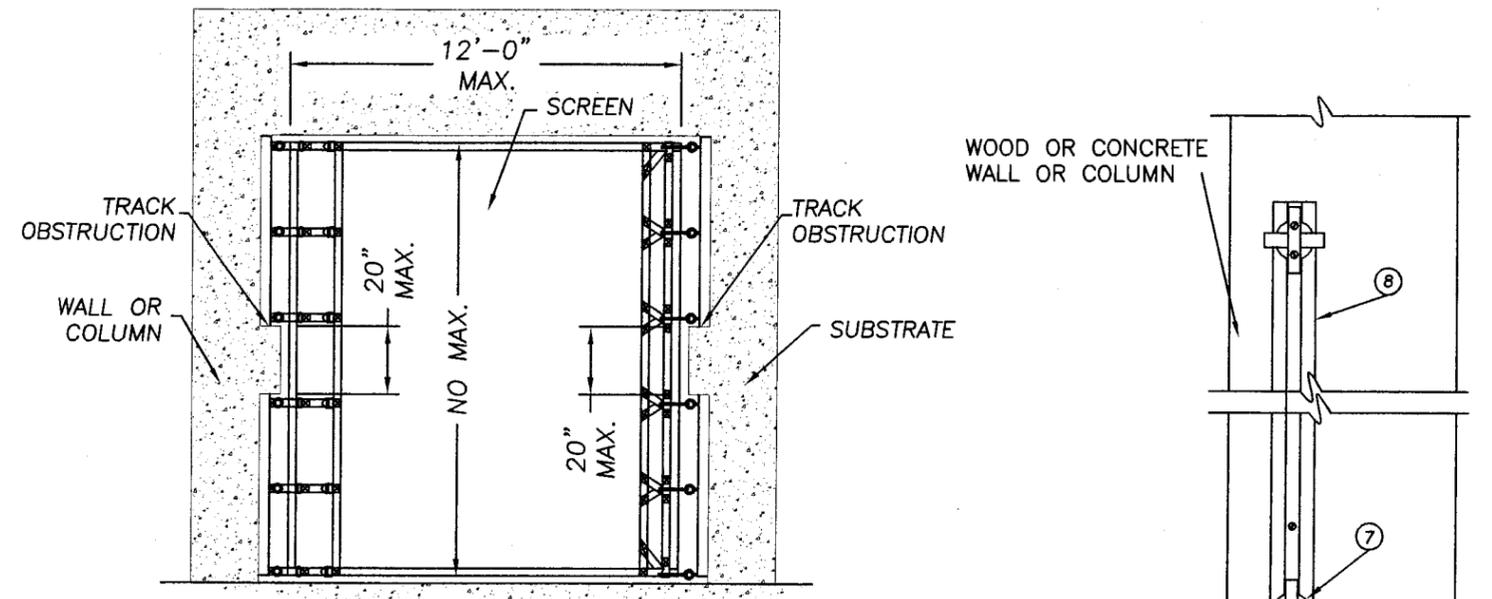
REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

**HE** Hendee Enterprises, Inc.  
 The Innovative Solutions Company  
 P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

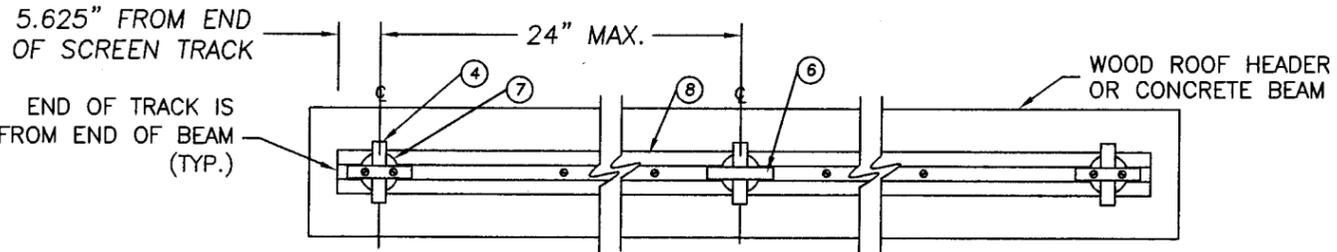
TITLE: FORCE 12 OVERLAPPING PANEL DETAILS		
CLIENT: VARIES	LOCATION: VARIES	
DRAWN BY: AD	SCALE: NTS	SHEET 6 OF 15
DATE: 03/16/09	DOCUMENT NO: F12_2001_2	REV: 2



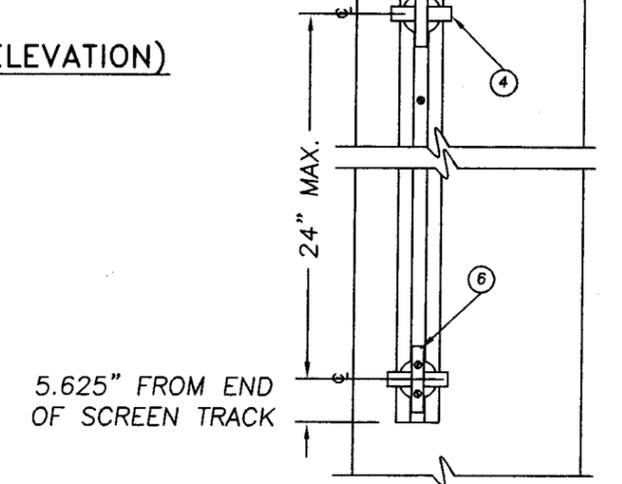
1  
7 VERT. OR ANG. MOUNTED SCREEN W/ TRACK OBSTRUCTION (ELEVATION)  
SCALE: NTS = 1'-0"



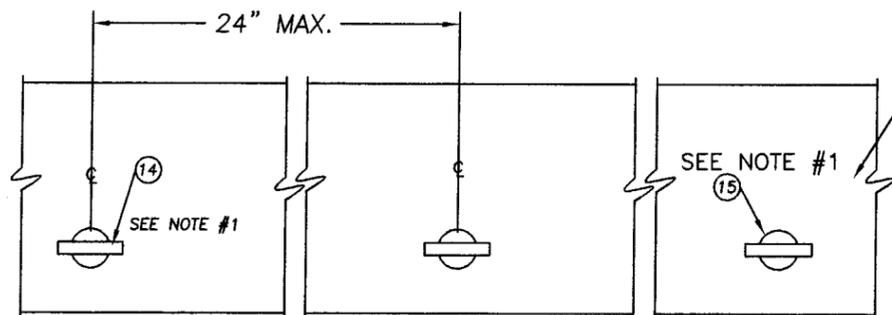
2  
7 HOR. MOUNTED SCREEN W/ TRACK OBSTRUCTION (ELEVATION)  
SCALE: NTS = 1'-0"



3  
7 PLAN VIEW (LOOKING UP) TOP VERTICAL MOUNTING IN WOOD OR CONCRETE  
SCALE: NTS = 1'-0"



4  
7 ELEVATION AT LEFT OR RIGHT SIDE MOUNTING IN WOOD OR CONCRETE  
SCALE: NTS = 1'-0"



5  
7 PLAN VIEW AT BOTTOM MOUNTING IN CONCRETE  
SCALE: NTS = 1'-0"

CONCRETE  
SEE NOTE #1

NOTES:  
1. ITEMS #14 & #15 ARE USED  
WHEN MOUNTING SCREEN BOTTOM TO  
CONCRETE.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 06-1214.03  
Expiration Date 08/29/2009  
By: *Helmy A. Mela*  
Miami Dade Product Control  
Division

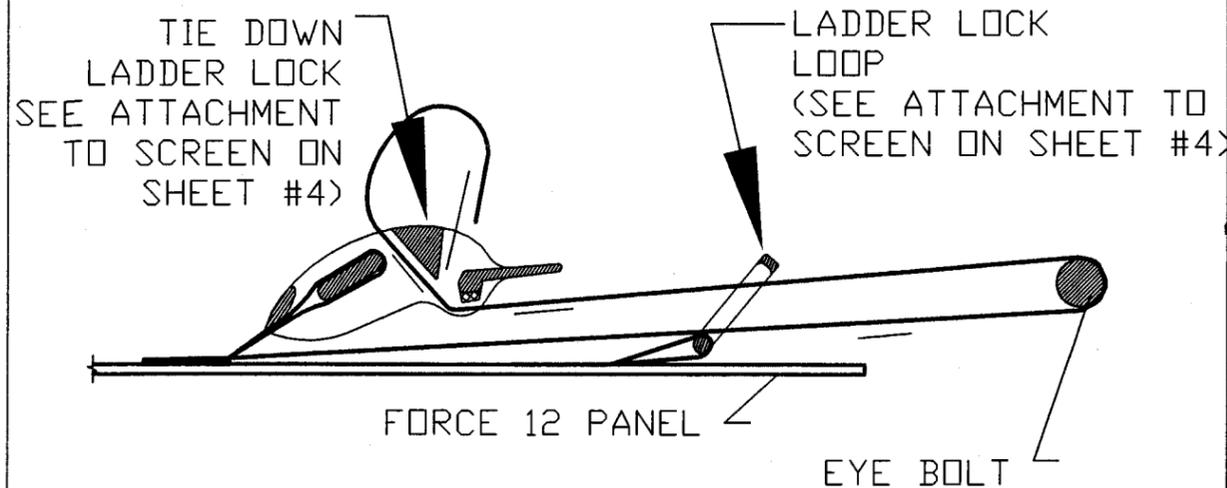
JAMES R. BAILEY, Ph.D., P.E.  
PLATINUM RISK CONSULTING LLC  
4931 CHAPPEL HILL DR.  
MISSOURI CITY, TX 77459  
PHONE: 281-403-2825  
FL COA NO. 28156  
FL P.E. NO. 67773

*James R. Bailey*  
7/3/24/09

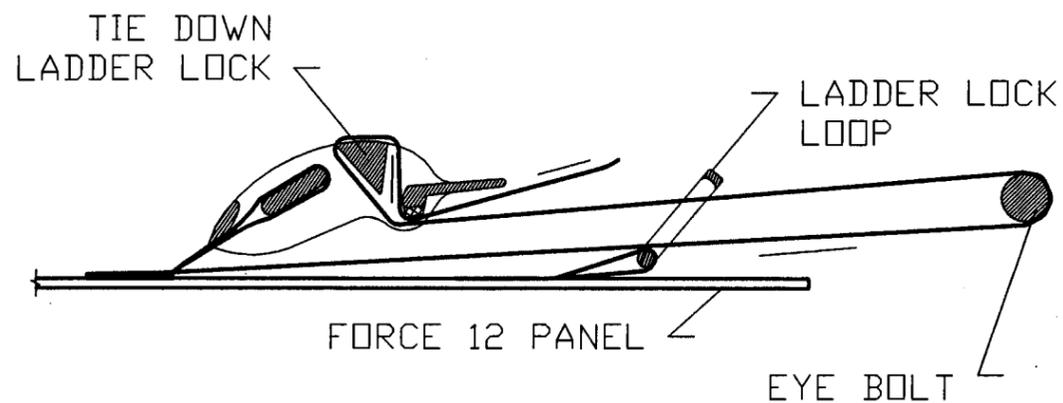
REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

**HE** Hendee Enterprises, Inc.  
The Innovative Solutions Company  
P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
(713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

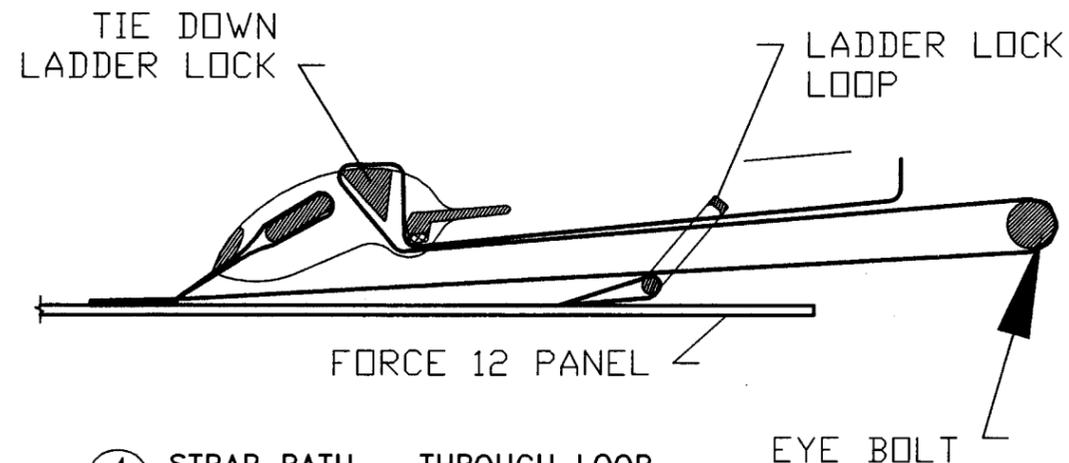
TITLE: FORCE 12  
SCREEN MOUNTING ELEVATIONS WITH DISCONTINUOUS TRACK  
CLIENT: VARIES  
LOCATION: VARIES  
DRAWN BY: AD SCALE: NTS = 1'-0" SHEET 7 OF 15  
DATE: 03/16/09 DOCUMENT NO: F12\_2001\_3 REV: 2



2 STRAP PATH - THROUGH BUCKLE  
D1 SCALE: N.T.S. = 1'-0"



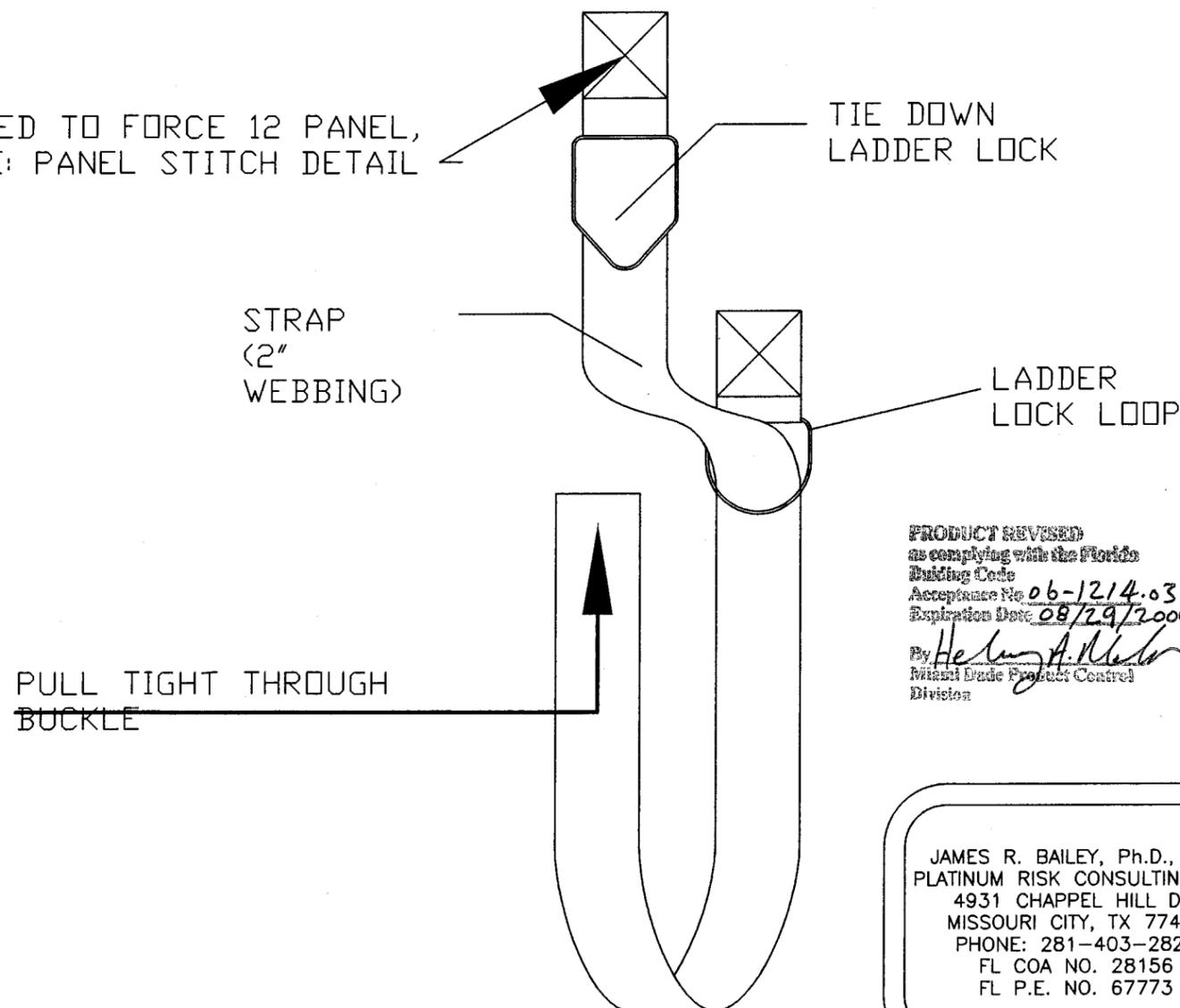
3 STRAP PATH - TIGHTEN  
D1 SCALE: N.T.S. = 1'-0"



4 STRAP PATH - THROUGH LOOP  
D1 SCALE: N.T.S. = 1'-0"

SCREEN ATTACHMENT STRAP DETAIL  
AT THE BOTTOM OF SCREEN

ATTACHED TO FORCE 12 PANEL,  
RE: PANEL STITCH DETAIL



1 PANEL ATTACHMENT - STRAP  
D1 SCALE: N.T.S. = 1'-0"

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 06-1214.03  
Expiration Date 08/29/2009  
By *Heung A. Nelson*  
Miami Dade Product Control  
Division

JAMES R. BAILEY, Ph.D., P.E.  
PLATINUM RISK CONSULTING LLC  
4931 CHAPPEL HILL DR.  
MISSOURI CITY, TX 77459  
PHONE: 281-403-2825  
FL COA NO. 28156  
FL P.E. NO. 67773

*James R. Bailey 7/3/2009*

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

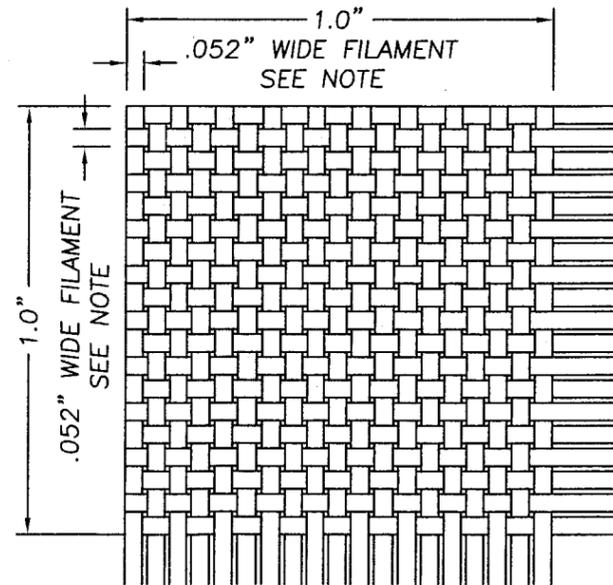
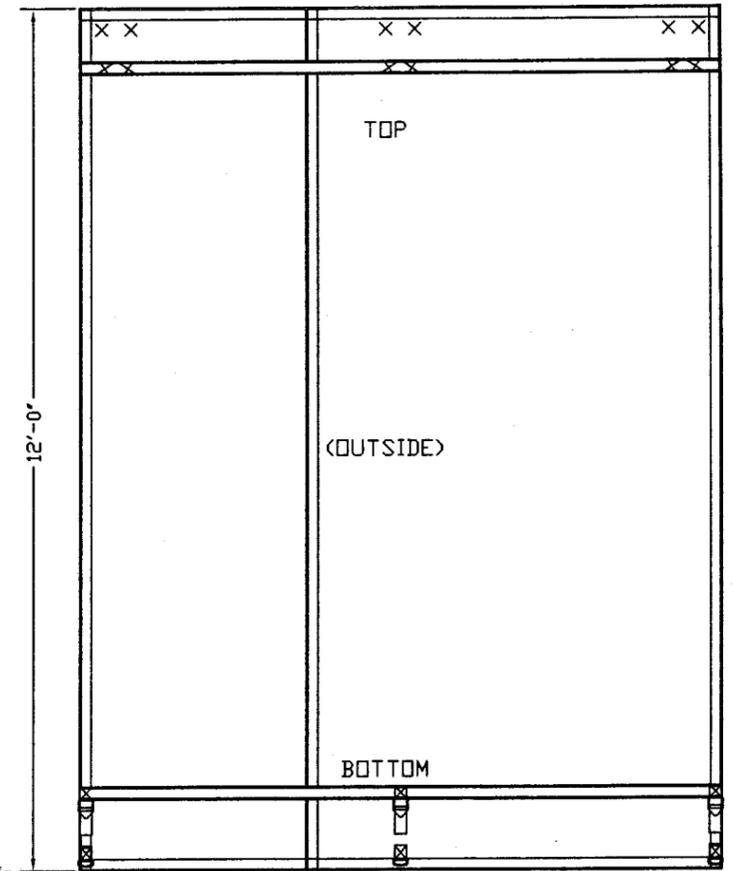
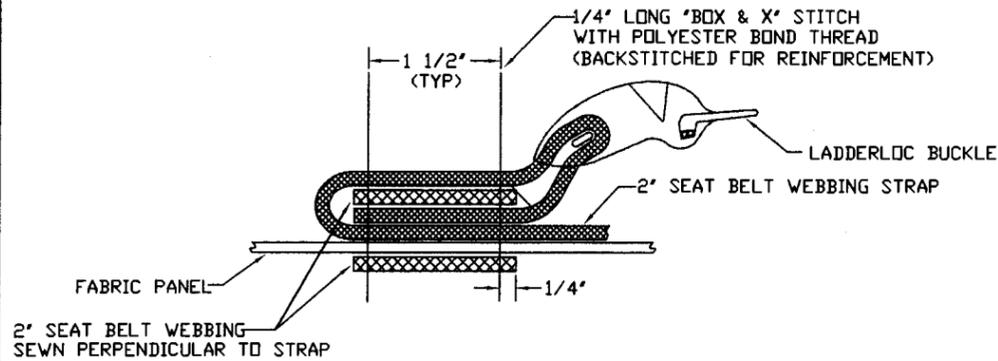
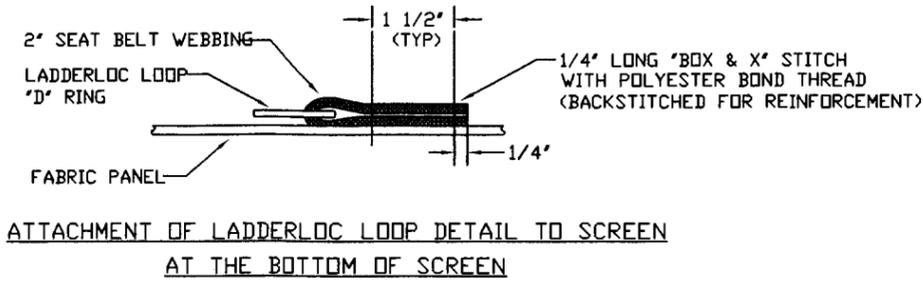
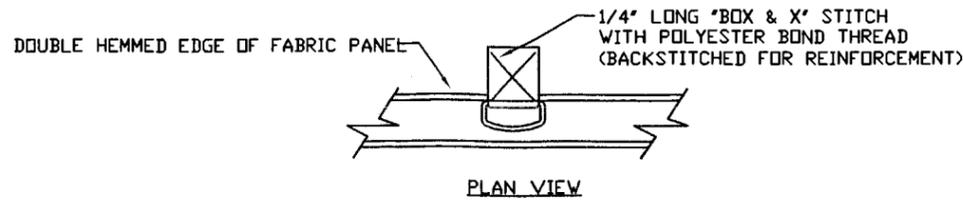
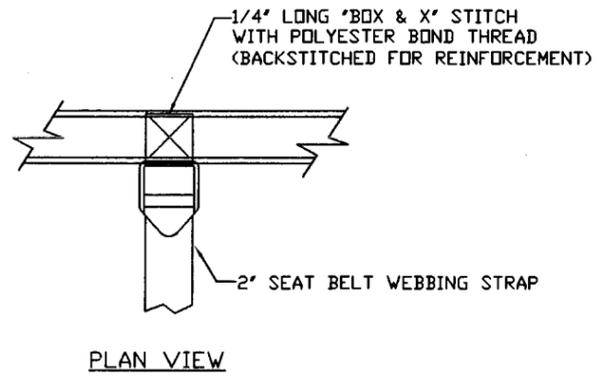
**Hendee Enterprises, Inc.**  
The Innovative Solutions Company

P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
(713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

TITLE: FORCE 12 - STRAIGHT DROP STRAP DETAILS

CLIENT: VARIES  
LOCATION: VARIES

DRAWN BY: AD SCALE: N.T.S. = 1'-0" SHEET 8 OF 15  
DATE: 03/16/09 DOCUMENT NO: F12\_2001\_3 REV: 2



PRODUCT REVIEWED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 06-1214-03  
 Expiration Date 08/29/2009  
 By *Helmy A. Helmy*  
 Miami Dade Product Control  
 Division

HURRICANE SCREEN ELEVATION  
 (OUTSIDE STITCHING DETAILS. THE SCREEN IS MANUFACTURED  
 IN (3) STYLES; VERTICAL SEAM, HORIZONTAL SEAM, & NON-SEAMED  
 OVERLAPPED FABRIC PANELS)

NOTE:  
 THERE ARE (19) .052" WIDE FILAMENTS,  
 BOTH HORIZONTALLY & VERTICALLY IN  
 A SQUARE INCH OF FABRIC. EACH  
 FILAMENT IS MADE UP OF (3) .013"  
 WIDE SUB FILAMENTS.

*James R. Bailey*  
 7/3/2009  
 JAMES R. BAILEY, Ph.D., P.E.  
 PLATINUM RISK CONSULTING LLC  
 4931 CHAPPEL HILL DR.  
 MISSOURI CITY, TX 77459  
 PHONE: 281-403-2825  
 FL COA NO. 28156  
 FL P.E. NO. 67773

**FORCE 12 - MATERIAL SPECIFICATIONS OF SCREEN**

FIBER CONTENT	100% POLYPROPYLENE
COLOR	BLACK OR ROYAL BLUE
FINISH	TENTERED & CALENDERED
CONSTRUCTION (APPROXIMATE)	WARP: 60 FILL: 50
WEAVE	3/4" BASKET WEAVE
THICKNESS	20 MILS
WEIGHT (ASTM D-3776-85)	7.6 OZ/YD <sup>2</sup>
ABRASION RESISTANCE (ASTM D-3884)	WARP: 190 LBS FILL: 250 LBS
TENSILE STRENGTH (ASTM D-1682, GRAB METHOD)	WARP: 445 LBS FILL: 375 LBS
TEAR STRENGTH (ASTM D-2261, TRAP METHOD)	WARP: 185 LBS FILL: 190 LBS
BURST STRENGTH (ASTM D-3786 MULLEN)	720 LBS/IN <sup>2</sup>
PUNCTURE STRENGTH (ASTM D-3787, MODIFIED)	165 LBS
U.V. RESISTANCE (ASTM G-53, % RETAINED AT 5,000 HOURS)	90%
AIR FLOW	230 CFM

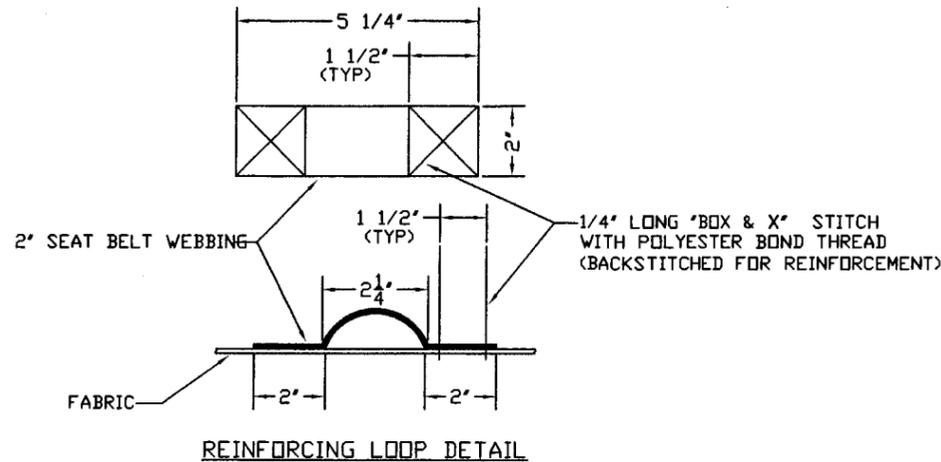
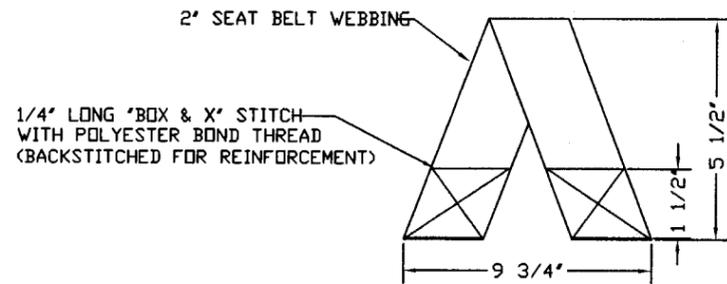
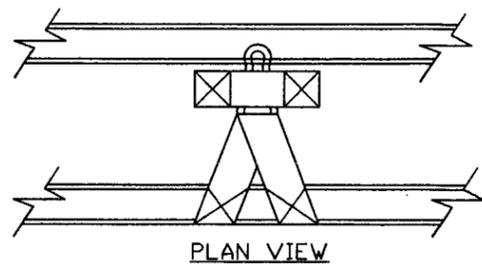
REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

**Hendee Enterprises, Inc.**  
*The Innovative Solutions Company*  
 P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

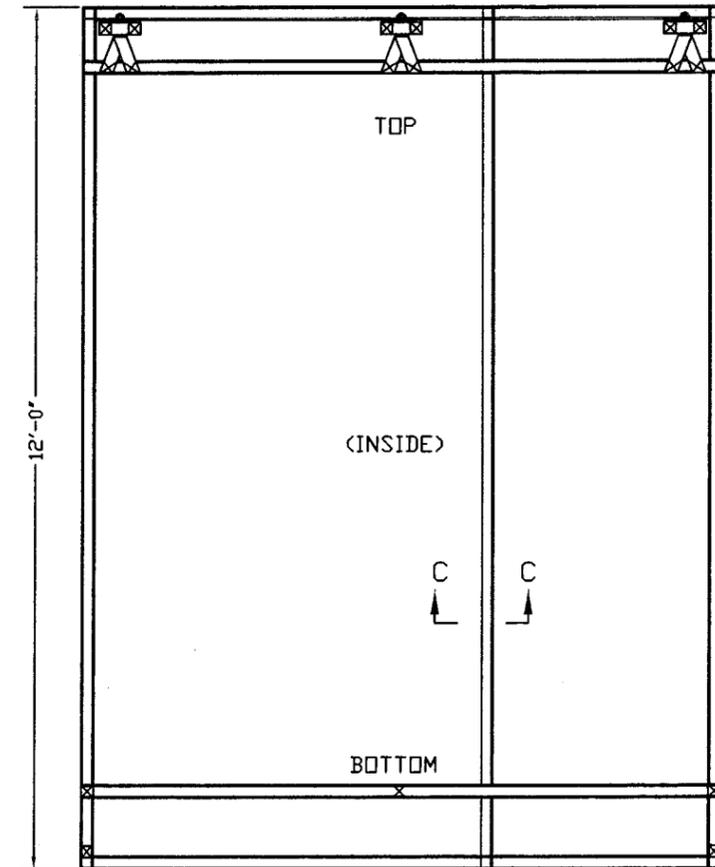
TITLE: FORCE 12  
 FABRIC SCREEN DETAILS

CLIENT: VARIES  
 LOCATION: VARIES

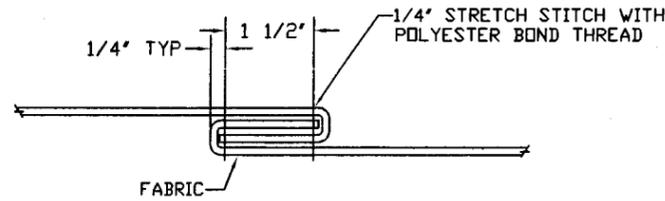
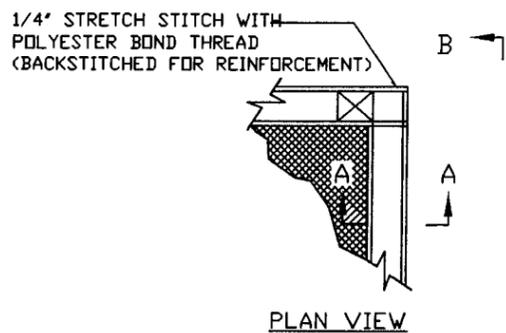
DRAWN BY: AD SCALE: NTS SHEET 9 OF 15  
 DATE: 03/16/09 DOCUMENT NO: F12\_2001\_2 REV: 2



SCREEN ATTACHMENT LOOP DETAIL AT THE TOP OF SCREEN

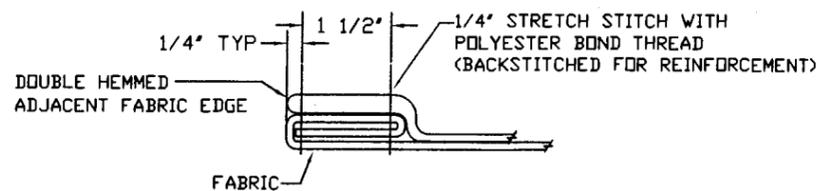
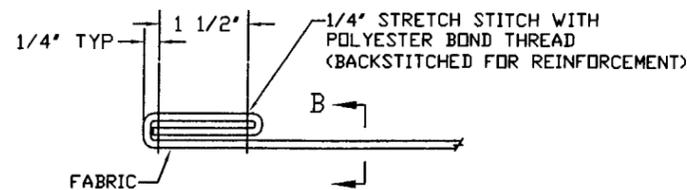
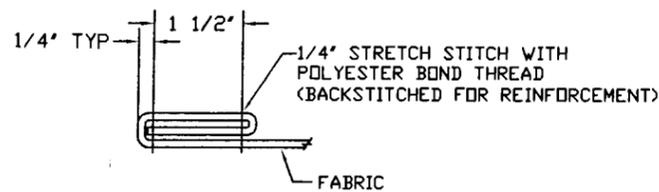


(INSIDE STITCHING DETAILS. THE SCREEN IS MANUFACTURED IN (3) STYLES; VERTICAL SEAM, HORIZONTAL SEAM, & NON-SEALED OVERLAPPED FABRIC PANELS)



PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 06-1214.03  
 Expiration Date 08/29/2009  
 By: *Heather A. Nelson*  
 Miami Dade Product Control  
 Division

JAMES R. BAILEY, Ph.D., P.E.  
 PLATINUM RISK CONSULTING LLC  
 4931 CHAPPEL HILL DR.  
 MISSOURI CITY, TX 77459  
 PHONE: 281-403-2825  
 FL COA NO. 28156  
 FL P.E. NO. 67773



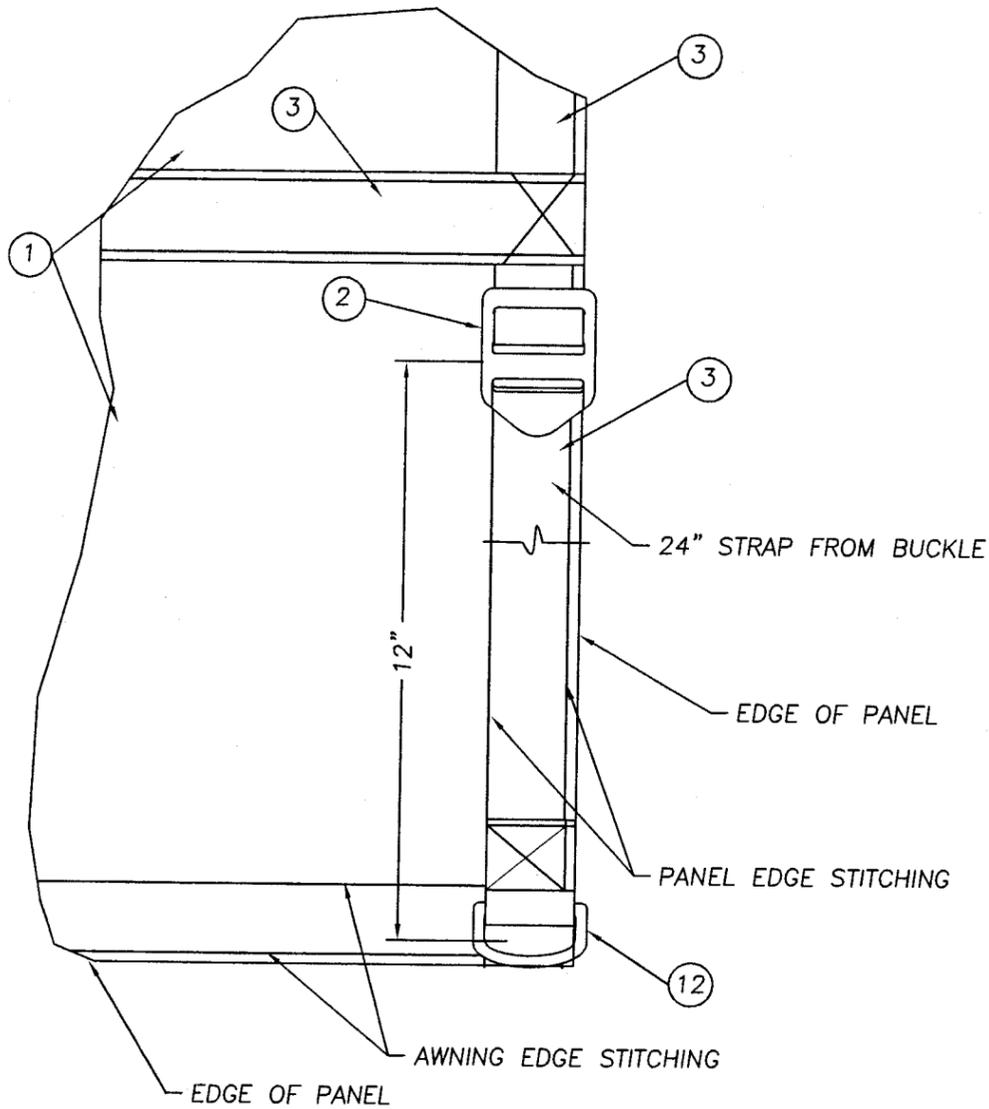
REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

**HE** **Hendee Enterprises, Inc.**  
*The Innovative Solutions Company*  
 P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

TITLE: **FORCE 12  
FABRIC SCREEN DETAILS**

CLIENT: **VARIES**  
 LOCATION: **VARIES**

DRAWN BY: **AD** SCALE: **NTS** SHEET **10** OF **15**  
 DATE: **03/16/09** DOCUMENT NO: **F12\_2001\_2** REV: **2**



STITCHING DETAIL

DETAIL	Rt (lbs)	Rs (lbs)	Ft (lbs)	Fs (lbs)
A	941	675	1232	1410
B	941	675	1856	1500
C	1042	1183	1856	1500
D	1042	1183	1232	1410

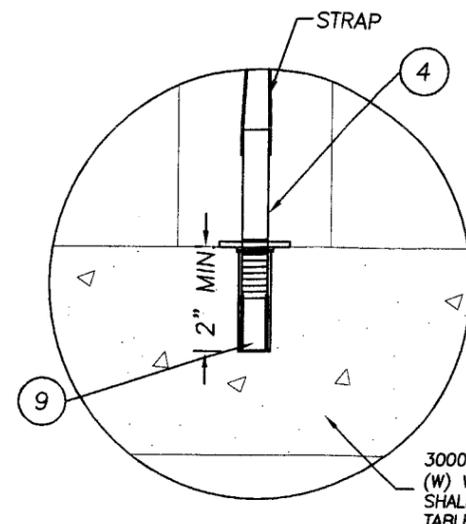
Rt: Reaction tensile force  
 Rs: Reaction shear force  
 Ft: Fastener allowable tensile load  
 Fs: Fastener allowable shear load

Reaction (Rt or Rs) is maximum absolute value for a  $\pm$  60 PSF load w/ 22.5" strap spacing or a  $\pm$  55 PSF load w/ 24.0" strap spacing, with reaction acting either  $\odot$  22.5" O.C. or  $\odot$  24.0" O.C.

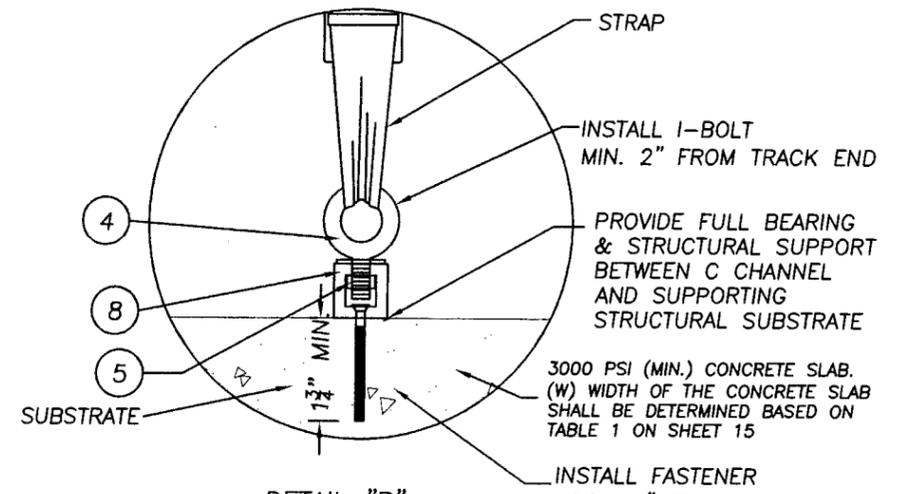
Fastener (Ft or Fs) is minimum allowable value for a  $\pm$  60 PSF load w/ 22.5" strap spacing or a  $\pm$  55 PSF load w/ 24.0" strap spacing; values for Drop-in Anchors based on one fastener either  $\odot$  22.5" O.C. or  $\odot$  24.0" O.C.; values for Tapcons based on 4 fasteners  $\odot$  6" O.C.; values for #14 Wood Screw based on 4 fasteners  $\odot$  6" O.C. (no offset) or 5 fasteners  $\odot$  5" O.C. (offset).

JAMES R. BAILEY, Ph.D., P.E.  
 PLATINUM RISK CONSULTING LLC  
 4931 CHAPPEL HILL DR.  
 MISSOURI CITY, TX 77459  
 PHONE: 281-403-2825  
 FL COA NO. 28156  
 FL P.E. NO. 67773

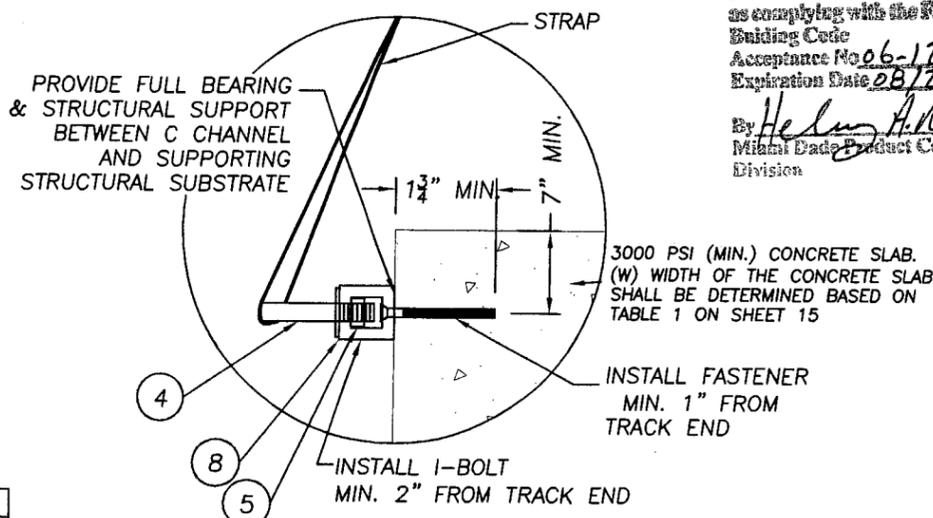
*James R. Bailey*



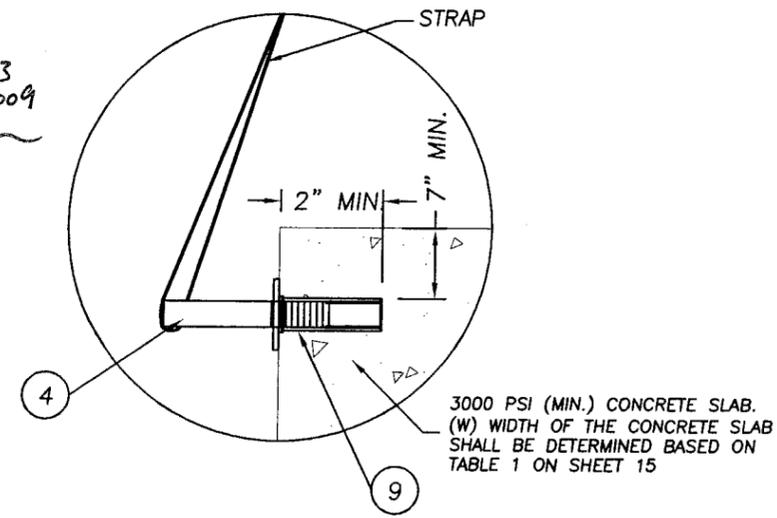
DETAIL "A"  
 SCREEN TO CONCRETE @ BOTTOM  
 DROP-IN ANCHOR IS INSTALLED VERTICALLY  
 (USE MIN. EDGE DISTANCE)



DETAIL "B"  
 SCREEN TO TRACK @ BOTTOM  
 TAPCON FASTENER IS INSTALLED VERTICALLY  
 (USE MIN. EDGE DISTANCE)



DETAIL "C"  
 SCREEN TO TRACK @ BOTTOM  
 TAPCON FASTENER IS INSTALLED HORIZONTALLY  
 (USE MIN. EDGE DISTANCE)



DETAIL "D"  
 SCREEN TO CONCRETE @ BOTTOM  
 DROP-IN ANCHOR IS INSTALLED HORIZONTALLY  
 (USE MIN. EDGE DISTANCE)

PRODUCT REVIEWED  
 as complying with the Florida  
 Building Code  
 Acceptance No 06-1714-03  
 Expiration Date 08/29/2009  
 By *Helmut A. ...*  
 Miami Dade Product Control  
 Division

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

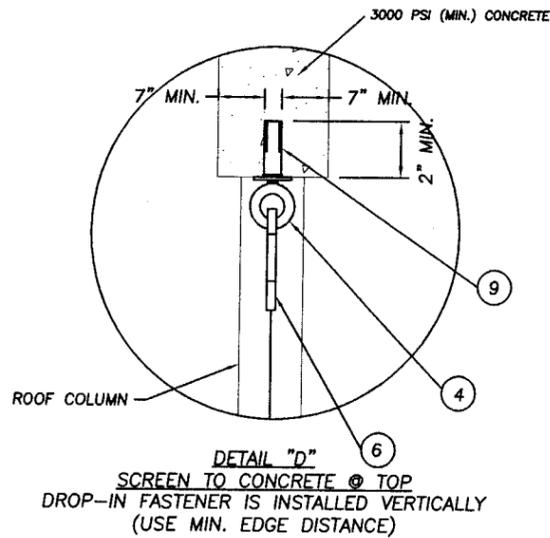
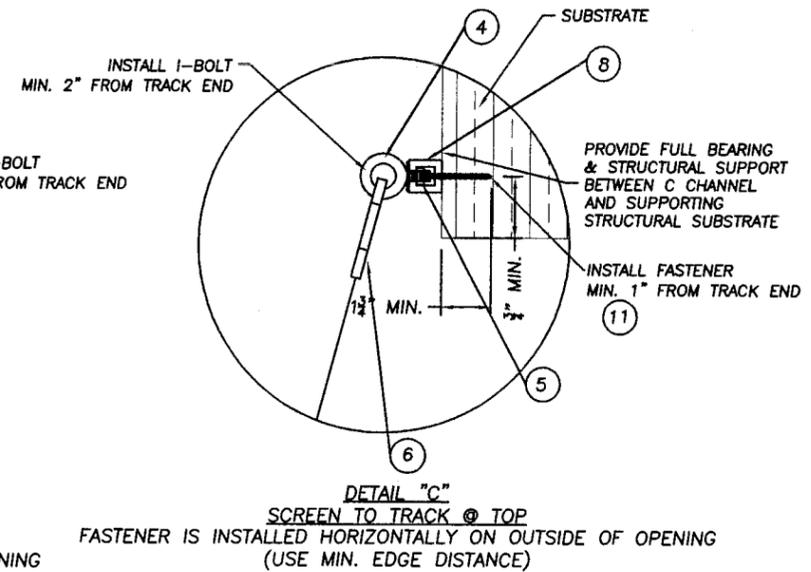
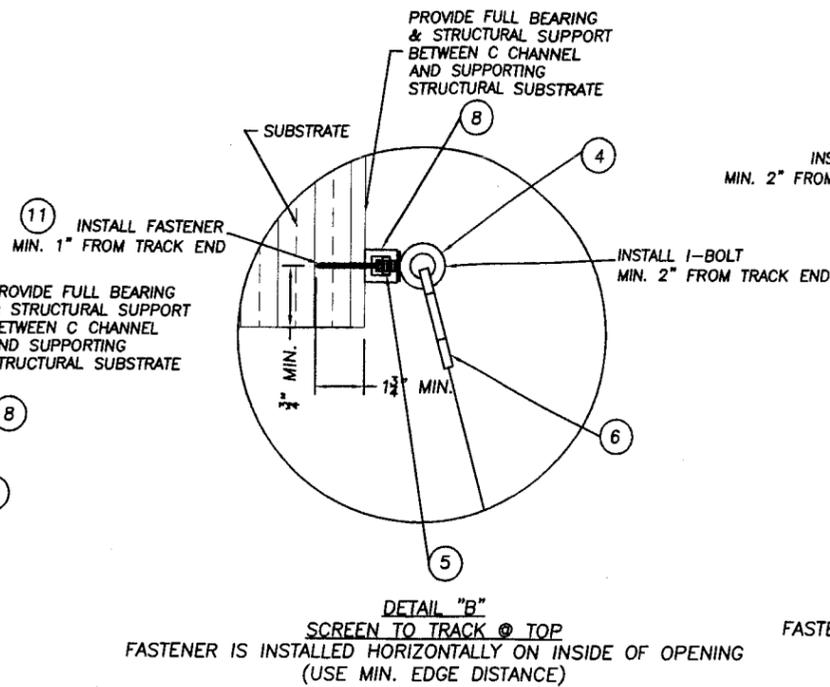
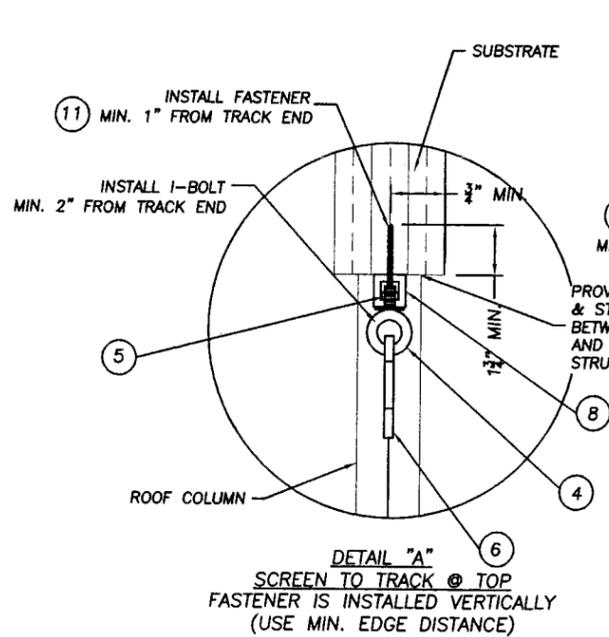
**HE** Hendee Enterprises, Inc.  
 The Innovative Solutions Company  
 P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

TITLE: FORCE 12  
 ACCEPTABLE BOTTOM ATTACHMENTS

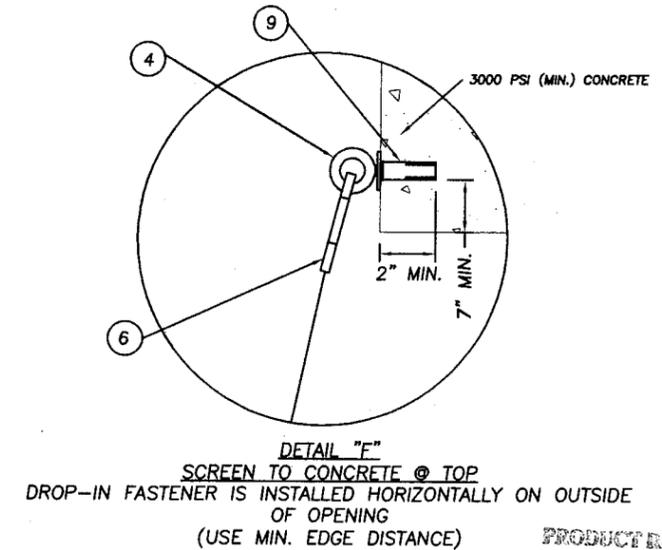
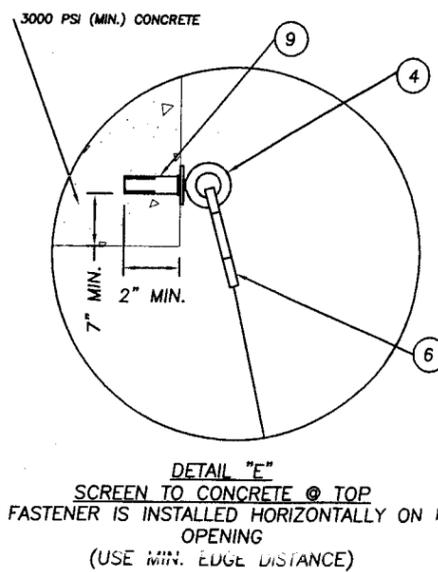
CLIENT: VARIES  
 LOCATION: VARIES

DRAWN BY: AD SCALE: NTS=1'-0" SHEET 11 OF 15  
 DATE: 03/16/09 DOCUMENT NO: F12\_2001\_8 REV: 2

3/24/09



FOR 1/4" TAPCON (10) USE 1 3/4" MIN. EMBEDMENT.



DETAIL	Rt (lbs)	Rs (lbs)	Ft (lbs)	Fs (lbs)
A	941	675	1768	1080
B	1042	1183	2210	1350
C	1042	1183	2210	1350
D	941	675	1232	1410
E	1042	1183	1232	1410
F	1042	1183	1232	1410

Rt: Reaction tensile force  
 Rs: Reaction shear force  
 Ft: Fastener allowable tensile load  
 Fs: Fastener allowable shear load

Reaction (Rt or Rs) is maximum absolute value for a  $\pm$  60 PSF load w/ 22.5" strap spacing or a  $\pm$  55 PSF load w/ 24.0" strap spacing, with reaction acting either  $\odot$  22.5" O.C. or  $\odot$  24.0" O.C.

Fastener (Ft or Fs) is minimum allowable value for a  $\pm$  60 PSF load w/ 22.5" strap spacing or a  $\pm$  55 PSF load w/ 24.0" strap spacing; values for Drop-in Anchors based on one fastener either  $\odot$  22.5" O.C. or  $\odot$  24.0" O.C.; values for Tapcons based on 4 fasteners  $\odot$  6" O.C.; values for #14 Wood Screw based on 4 fasteners  $\odot$  6" O.C. (no offset) or 5 fasteners  $\odot$  5" O.C. (offset)

JAMES R. BAILEY, Ph.D., P.E.  
 PLATINUM RISK CONSULTING LLC  
 4931 CHAPPEL HILL DR.  
 MISSOURI CITY, TX 77459  
 PHONE: 281-403-2825  
 FL COA NO. 28156  
 FL P.E. NO. 67773

*James R. Bailey*

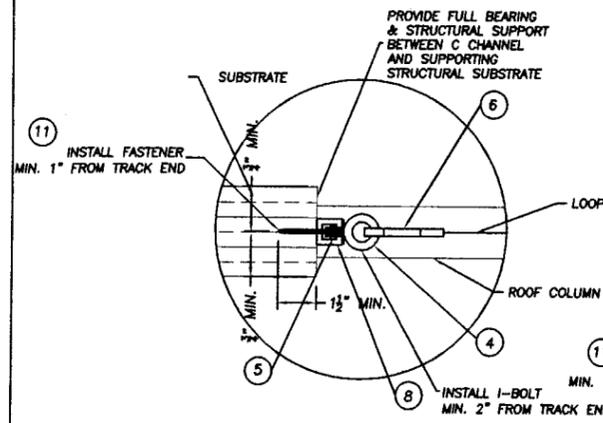
3/24/09

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

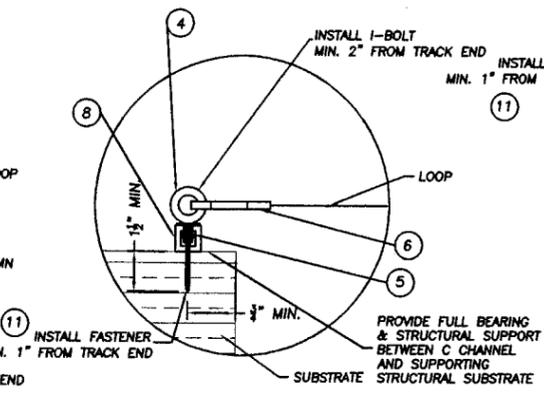
**HE** Hendee Enterprises, Inc.  
 The Innovative Solutions Company  
 P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

TITLE: FORCE 12  
 ACCEPTABLE TOP ATTACHMENTS  
 CLIENT: VARIES  
 LOCATION: VARIES  
 DRAWN BY: AD SCALE: NTS=1'-0" SHEET 12 OF 15  
 DATE: 03/16/09 DOCUMENT NO: F12\_2001\_8 REV: 2

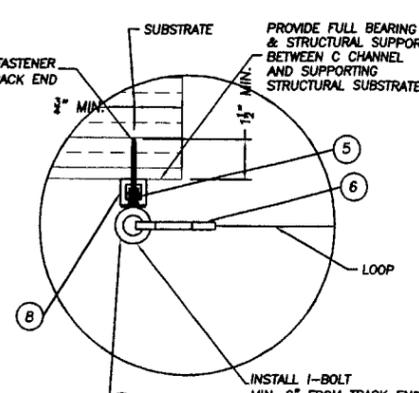
PRODUCT REVIEWED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 06-1214-03  
 Expiration Date 08/29/2009  
 By *Helene A. Miller*  
 Miami Dade Product Control  
 Division



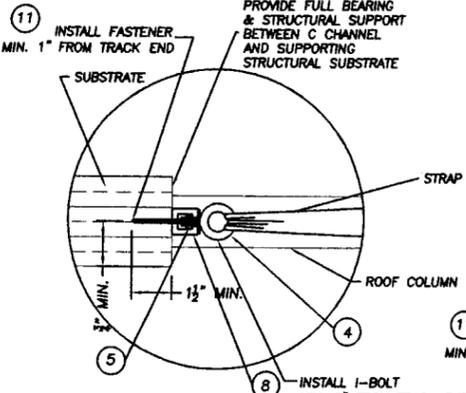
**DETAIL "A"**  
SCREEN TO TRACK @ SIDE [LOOP END]  
FASTENER IS INSTALLED HORIZONTALLY  
(USE MIN. EDGE DISTANCE)



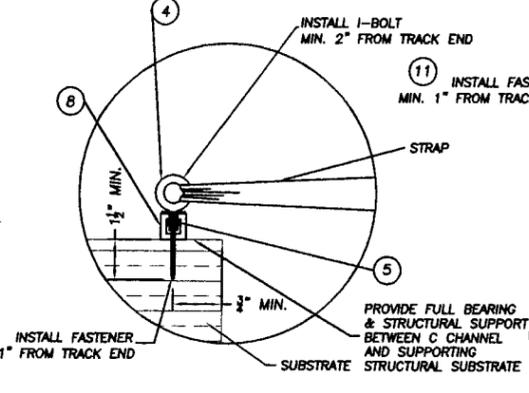
**DETAIL "B"**  
SCREEN TO TRACK @ TOP [LOOP END]  
FASTENER IS INSTALLED HORIZONTALLY ON INSIDE OF OPENING  
(USE MIN. EDGE DISTANCE)



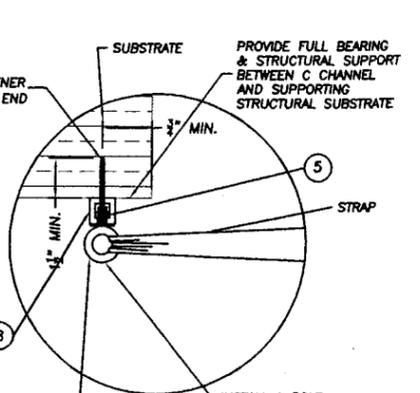
**DETAIL "C"**  
SCREEN TO TRACK @ TOP [LOOP END]  
FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE OF OPENING  
(USE MIN. EDGE DISTANCE)



**DETAIL "D"**  
SCREEN TO TRACK @ SIDE [STRAP END]  
FASTENER IS INSTALLED HORIZONTALLY  
(USE MIN. EDGE DISTANCE)



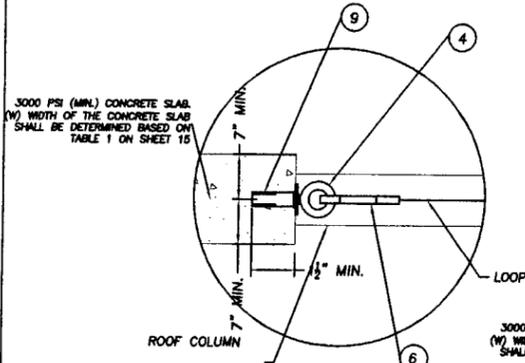
**DETAIL "E"**  
SCREEN TO TRACK @ TOP [STRAP END]  
FASTENER IS INSTALLED HORIZONTALLY ON INSIDE OF OPENING  
(USE MIN. EDGE DISTANCE)



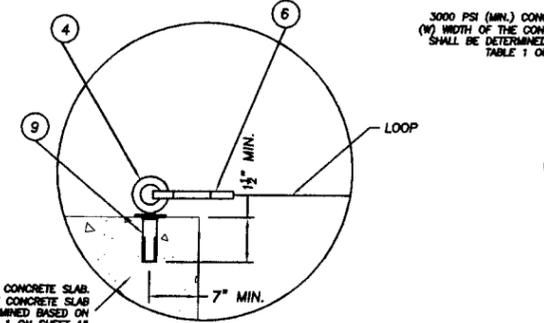
**DETAIL "F"**  
SCREEN TO TRACK @ TOP [STRAP END]  
FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE OF OPENING  
(USE MIN. EDGE DISTANCE)

FOR 1/4" TAPCON (10) USE 1 3/4" MIN. EMBEDMENT.

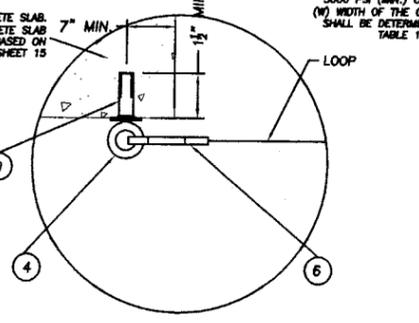
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 06-1214-03  
Expiration Date 08/24/2009  
By *Helmut Weber*  
Miami Code Product Control  
Division



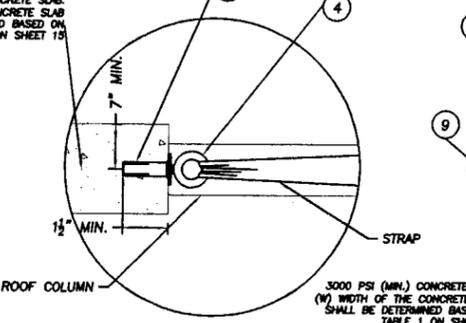
**DETAIL "G"**  
SCREEN TO CONCRETE @ TOP [LOOP END]  
DROP-IN FASTENER IS INSTALLED HORIZONTALLY  
(USE MIN. EDGE DISTANCE)



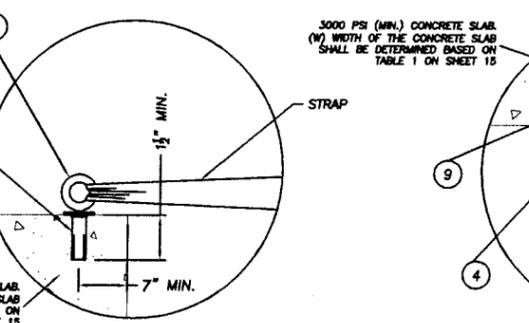
**DETAIL "H"**  
SCREEN TO CONCRETE @ TOP [LOOP END]  
DROP-IN FASTENER IS INSTALLED HORIZONTALLY ON INSIDE OF  
OPENING  
(USE MIN. EDGE DISTANCE)



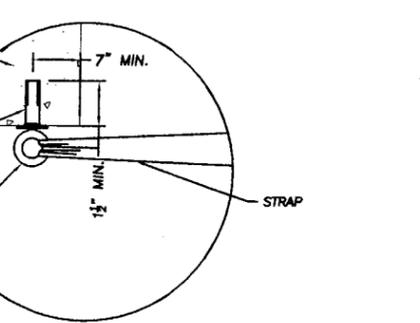
**DETAIL "I"**  
SCREEN TO CONCRETE @ TOP [LOOP END]  
DROP-IN FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE  
OF OPENING  
(USE 2" MIN. EDGE DISTANCE)



**DETAIL "J"**  
SCREEN TO CONCRETE @ TOP [STRAP END]  
DROP-IN FASTENER IS INSTALLED HORIZONTALLY  
(USE 2" MIN. EDGE DISTANCE)



**DETAIL "K"**  
SCREEN TO CONCRETE @ TOP [STRAP END]  
DROP-IN FASTENER IS INSTALLED HORIZONTALLY  
ON INSIDE OF OPENING  
(USE 2" MIN. EDGE DISTANCE)



**DETAIL "L"**  
SCREEN TO CONCRETE @ TOP [STRAP END]  
DROP-IN FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE OF  
OPENING  
(USE 2" MIN. EDGE DISTANCE)

DETAIL	Rt (lbs)	Rs (lbs)	Ft (lbs)	Fs (lbs)
A	941	675	1768	1080
B	675	941	1768	1080
C	675	941	1768	1080
D	941	675	1768	1080
E	675	941	1768	1080
F	675	941	1768	1080
G	941	675	1232	1410
H	675	941	1232	1410
I	675	941	1232	1410
J	941	675	1232	1410
K	675	941	1232	1410
L	675	941	1232	1410

Rt: Reaction tensile force  
Rs: Reaction shear force  
Ft: Fastener allowable tensile load  
Fs: Fastener allowable shear load

Reaction (Rt or Rs) is maximum absolute value for a ± 60 PSF load w/ 22.5" strap spacing or a ± 55 PSF load w/ 24.0" strap spacing, with reaction acting either @ 22.5" O.C. or @ 24.0" O.C.

Fastener (Ft or Fs) is minimum allowable value for a ± 60 PSF load w/ 22.5" strap spacing or a ± 55 PSF load w/ 24.0" strap spacing; values for Drop-in Anchors based on one fastener either @ 22.5" O.C. or @ 24.0" O.C.; values for Tapcons based on 4 fasteners @ 6" O.C.; values for #14 Wood Screw based on 4 fasteners @ 6" O.C. (no offset) or 5 fasteners @ 5" O.C. (offset)

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

**Hendee Enterprises, Inc.**  
The Innovative Solutions Company

P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
(713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

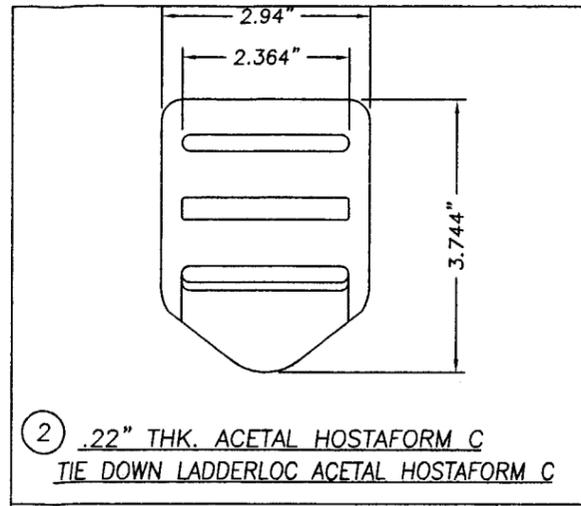
TITLE: FORCE 12  
ACCEPTABLE SIDE TO SIDE ATTACHMENTS

CLIENT: VARIES  
LOCATION: VARIES

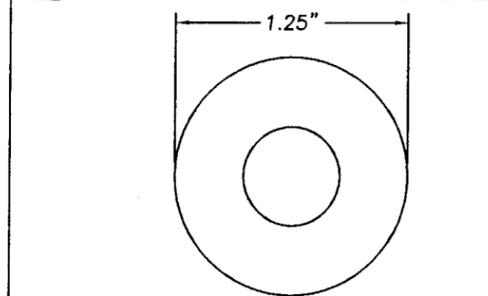
DRAWN BY: AD SCALE: NTS=1'-0" SHEET 13 OF 15  
DATE: 03/16/09 DOCUMENT NO: F12\_2001\_8 REV: 2

JAMES R. BAILEY, Ph.D., P.E.  
PLATINUM RISK CONSULTING LLC  
4931 CHAPPEL HILL DR.  
MISSOURI CITY, TX 77459  
PHONE: 281-403-2825  
FL COA NO. 28156  
FL P.E. NO. 67773

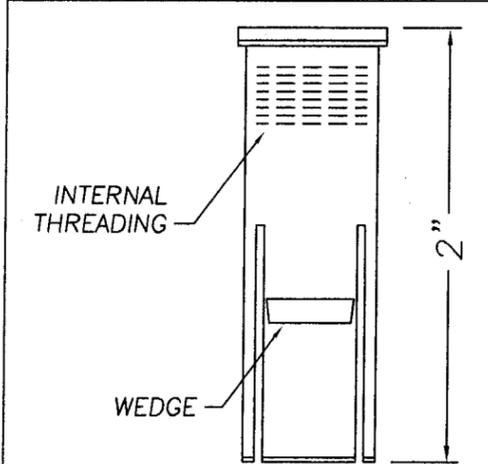
*James R. Bailey*  
3/24/09



② .22" THK. ACETAL HOSTAFORM C  
TIE DOWN LADDERLOC ACETAL HOSTAFORM C

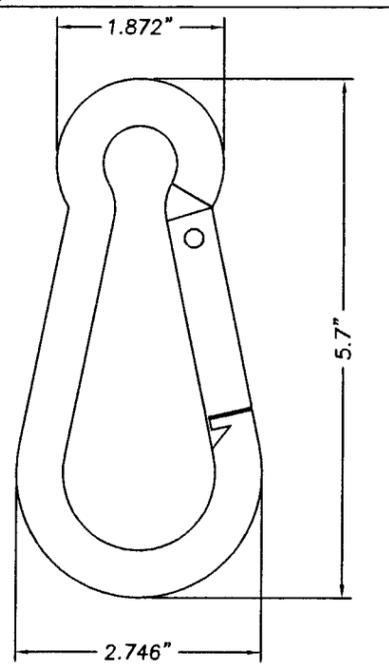


⑦ 1/2" FLAT WASHER  
.108" THK. STEEL

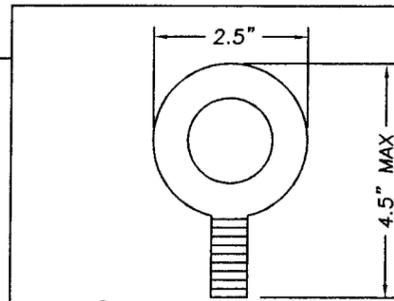


⑨ Ø1/2" DROP-IN ANCHOR  
STAINLESS STEEL

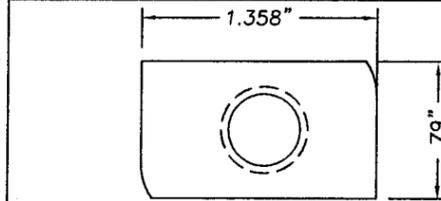
⑬



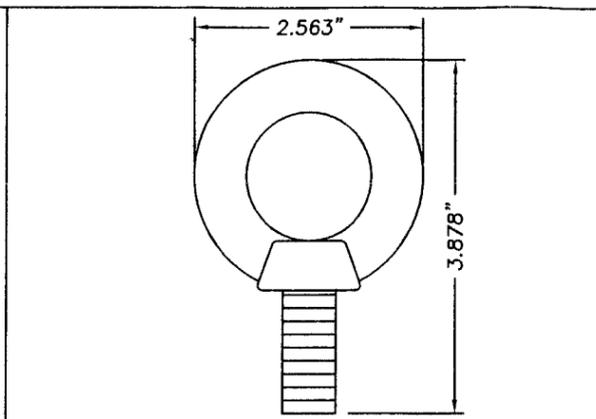
⑥ 3/4" SPRING SNAP  
.434" THK. STAINLESS STEEL BAR



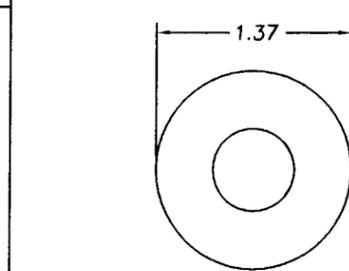
⑭ 1/2" EYEBOLT  
STAINLESS STEEL 1/2" THK. BAR



⑤ 1/2" UNI-STRUT NUT W/OUT SPRING  
.364" THK. STAINLESS STEEL

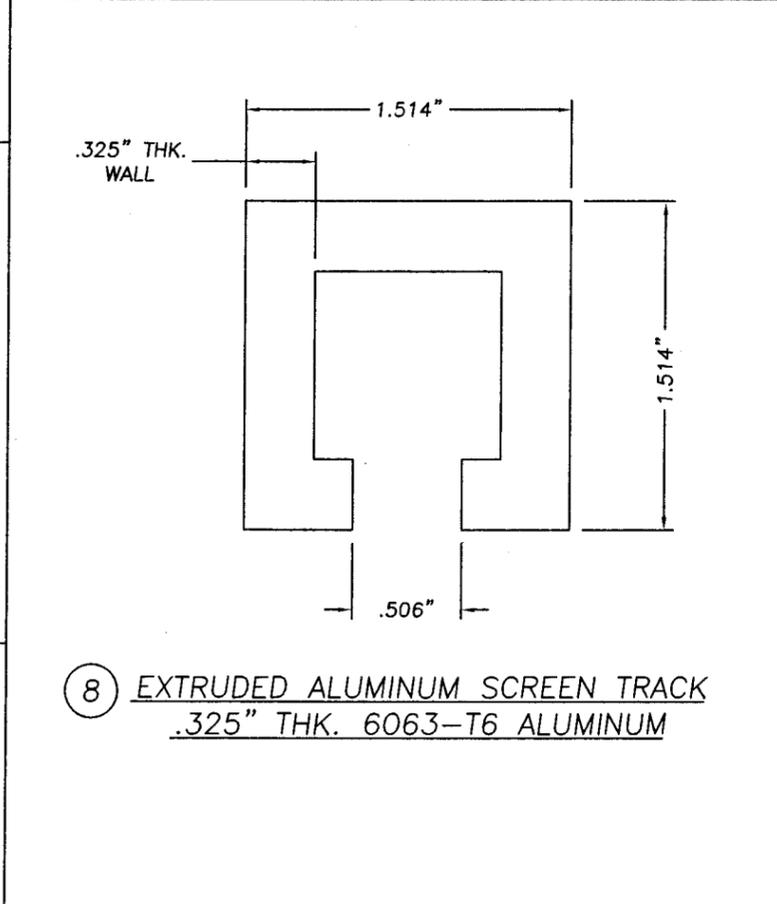


④ Ø1/2" SHOULDERED EYEBOLT  
STAINLESS STEEL 1/2" THK. BAR

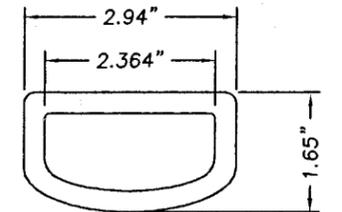


⑮ 1/2" FLAT WASHER  
.108" THK. STEEL

Item	DESCRIPTION	Material
1	HURRICANE SCREEN (SEE SCREEN CONSTRUCTION SHT. 1)	POLYPROP.
2	TIE DOWN LADDERLOC (ITW NEXUS, ACETAL HOSTAFORM C)	ACETAL
3	STRAP (SEE SHEET 8)	
4	1/2" EYEBOLT (CHICAGO#5, QUALITY MARINE HARDWARE, OR EQUAL)	S STEEL
5	1/2" UNI-STRUT NUT (STAINLESS STEEL, W/OUT SPRING)	S STEEL
6	3/4" SPRING SNAP (CAMMBELL #B765068, SUNCOR, OR EQUAL)	S STEEL
7	1/2" FLAT WASHER (.108" THK. STEEL)	STEEL
8	EXTRUDED ALUM. SCREEN TRACK (.325" WALL, 6063-T6)	ALUM.
9	1/2" DROP-IN ANCHOR (BY POWERS RAWL OR EQUAL)	S STEEL
10	TAPCON 1/4" x 3 1/4" LG. (ELCO) W/ 1 3/4" (MIN. EMBEDMENT)	STEEL
11	#14 WOOD SCREW INTO WOOD WITH 1 1/2" MIN. EMBEDMENT	S STEEL
12	LADDERLOC LOOP (ITW NEXUS, ACETAL HOSTAFORM C)	ACETAL
13	LEFT BLANK	-
14	1/2" EYEBOLT (CHICAGO #7, QUALITY MARINE HARDWARE, OR EQUAL)	S STEEL
15	1/2" FLAT WASHER (.108" THK. STEEL)	STEEL



⑧ EXTRUDED ALUMINUM SCREEN TRACK  
.325" THK. 6063-T6 ALUMINUM



⑫ LADDERLOC LOOP  
.161" THK. ACETAL HOSTAFORM C

PRODUCT REVISED  
to comply with the Florida  
Building Code  
Acceptance No 06-1214.03  
Expiration Date 08/29/2009  
By *Heather A. Hester*  
Miami Dade Product Control  
Division

JAMES R. BAILEY, Ph.D., P.E.  
PLATINUM RISK CONSULTING LLC  
4931 CHAPPEL HILL DR.  
MISSOURI CITY, TX 77459  
PHONE: 281-403-2825  
FL COA NO. 28156  
FL P.E. NO. 67773

*James R. Bailey*

3/24/09  
PER NCTL-210-2310-1,2,3

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

**HE** Hendee Enterprises, Inc.  
The Innovative Solutions Company  
P.O.Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054  
(713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

TITLE: FORCE 12  
ACCEPTABLE SCREEN MOUNTING HARDWARE

CLIENT: VARIES  
LOCATION: VARIES

DRAWN BY: AD SCALE: NTS=1'-0" SHEET 14 OF 15  
DATE: 03/16/09 DOCUMENT NO: F12\_2001\_9 REV: 2

