

\\F:\FORCE 12\2023 FLORIDA BUILDING CODE - MIAMI DADE. (FBC HVHZ)\SERIES 500\F12-SERIES 500 PLUS-S-STRAP & BUCKLE 2-27-24.dwg, 2/28/2024 8:06:45 AM, DWG TO PDF.pc3

FORCE 12 PLUS HVHZ

FLEXIBLE WIND ABATEMENT SCREEN SYSTEM

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE 2023 8TH EDITION.
2. PRODUCT MEETS ASCE 7-22 REQUIREMENTS.
3. GLASS SEPARATION WILL BE REQUIRED (SEE TABLE 3 SHEET 15).
4. WOOD FRAMING MEMBERS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. WOOD FRAMING MEMBERS SHALL BE "SOUTHERN PINE" WITH G=0.55 OR GREATER DENSITY.
5. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. DESIGN PRESSURE RATING: SEE CHART BELOW.
7. THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCT TESTED FOR IMPACT, CYCLIC, AND UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH MIAMI-DADE COUNTY PROTOCOLS TAS-201, 203 & 202. REFERENCE NATIONAL CERTIFIED TESTING LABORATORIES REPORT NCTL 210-2310-1,2,3

HURRICANE SCREEN CONSTRUCTION (COMMON TO ALL CONDITIONS)

SCREEN & SCREEN TRACK CONSTRUCTION:

SCREEN:

THE SCREEN IS MANUFACTURED FROM A WOVEN POLYPROPYLENE MONOFILAMENT GEOTEXTILE FABRIC

SCREEN CONFIGURATION:

THE SCREEN IS MANUFACTURED IN (3) STYLES, VERTICAL SEAM, HORIZONTAL SEAM & NON-SEALED OVERLAPPED FABRIC PANELS. THE MAXIMUM PANEL HEIGHT IS 12'-0".

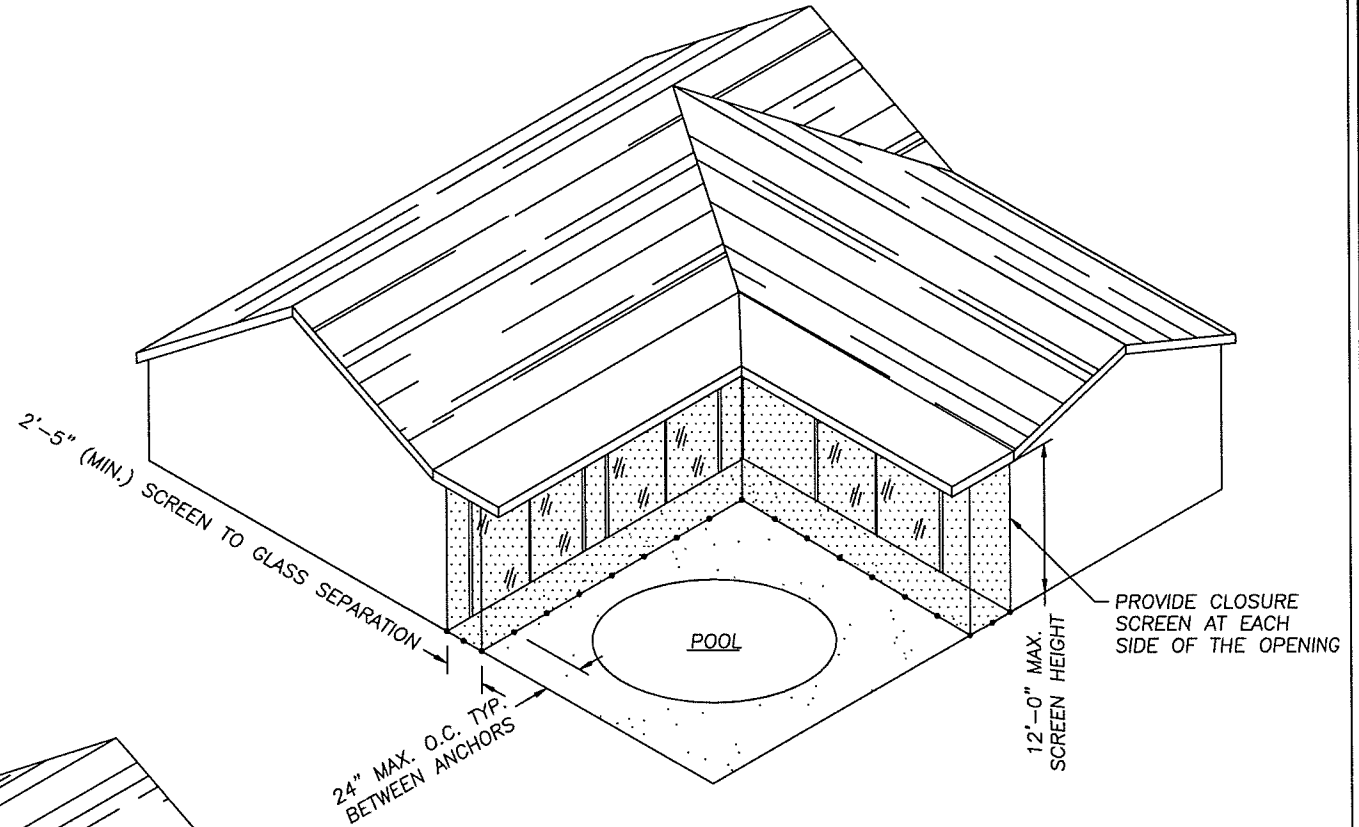
THE SCREEN IS MANUFACTURED FROM A WOVEN POLYPROPYLENE MONOFILAMENT GEOTEXTILE FABRIC WITH INDIVIDUAL FILAMENTS WOVEN INTO A BASKET WEAVE NETWORK AND CALENDERED SUCH THAT THE FILAMENTS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.

SCREEN TRACK:

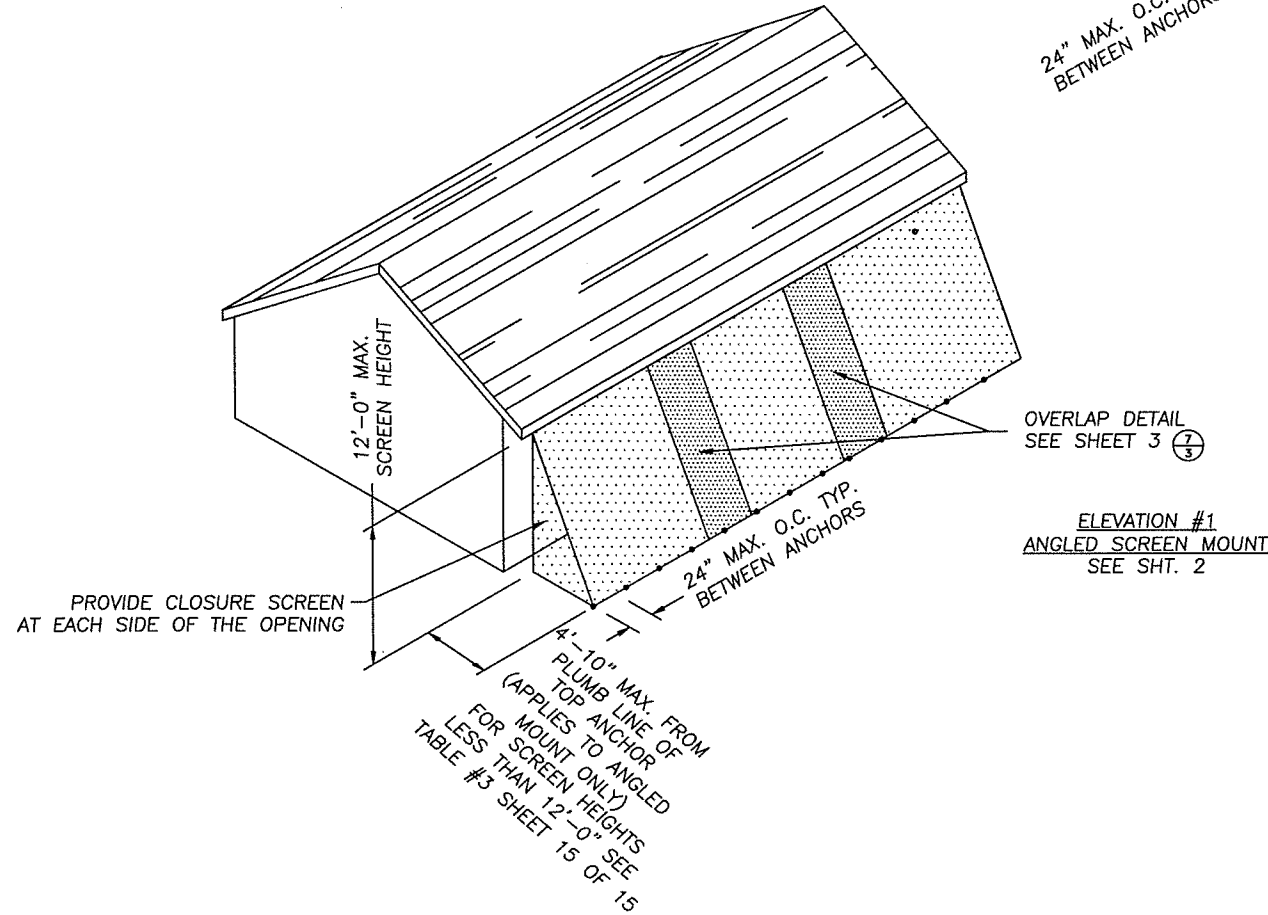
THE SCREEN TRACK IS EXTRUDED FROM 6063-T6 ALUMINUM.

DESIGN PRESSURE RATING

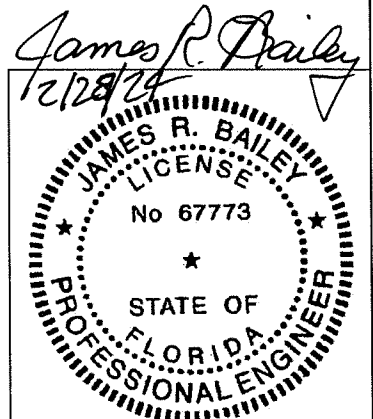
POSITIVE	+ 60.0 psf
NEGATIVE	- 60.0 psf



ELEVATION #2
STRAIGHT DROP SCREEN MOUNT
SEE SHT. 4



ELEVATION #1
ANGLED SCREEN MOUNT
SEE SHT. 2



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The Innovative Solutions Company
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FL COA #28156

CLIENT: HENDEE ENTERPRISES
LOCATION: HOUSTON, TX
TITLE: FORCE 12 - SERIES 500 PLUS - STRAP & BUCKLE
DATE: 2/27/24
REVISION: 0

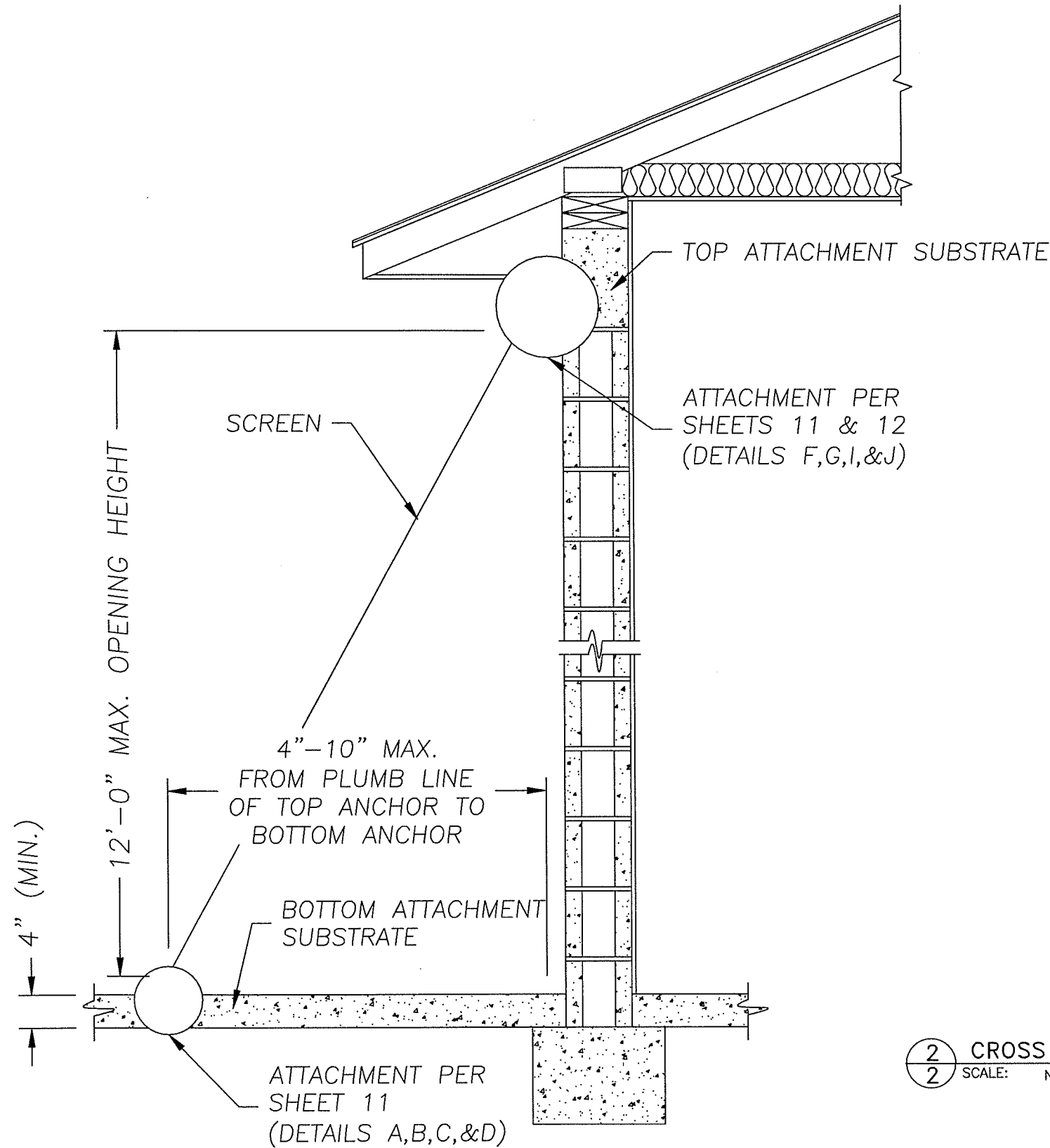
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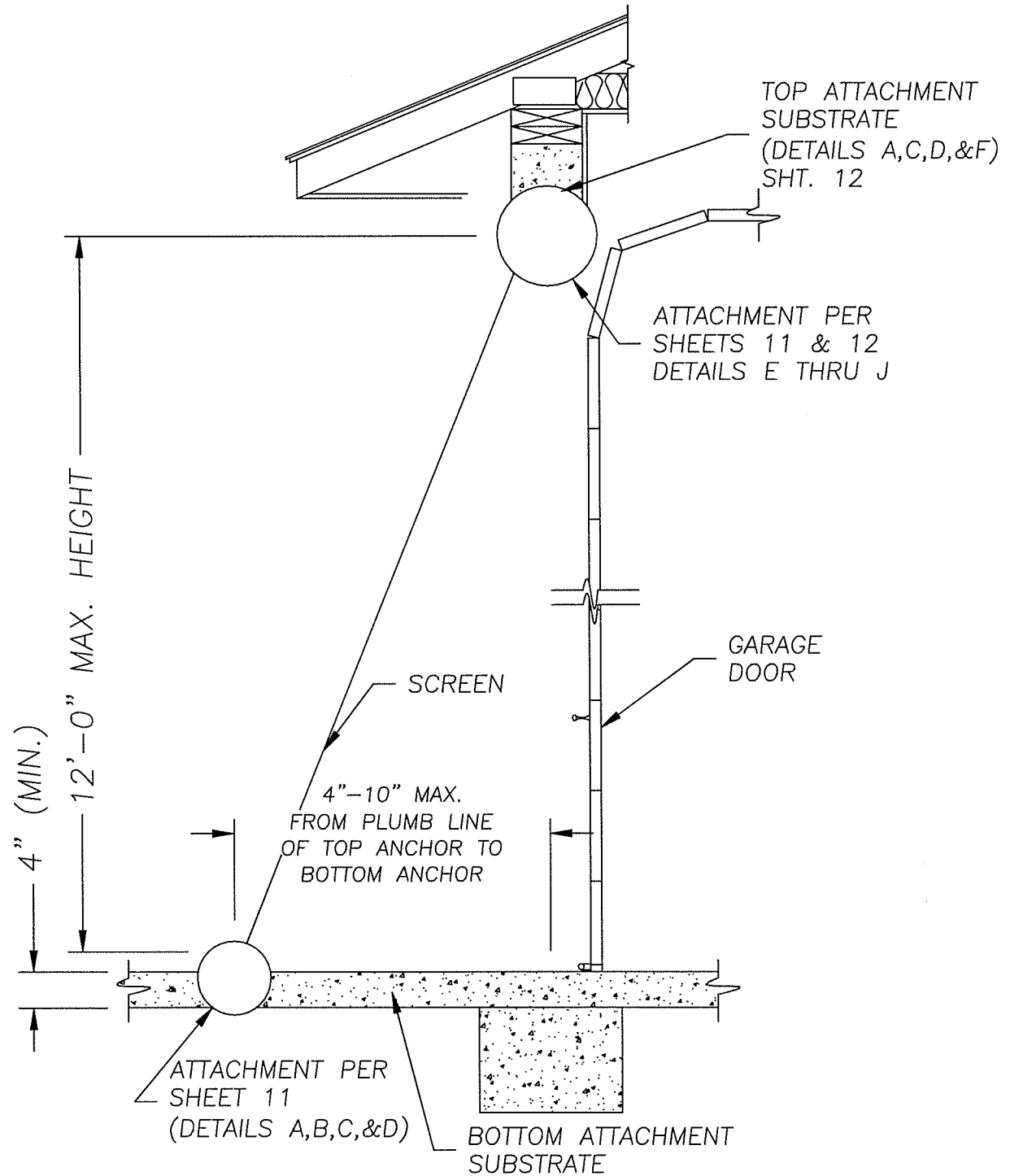
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D1

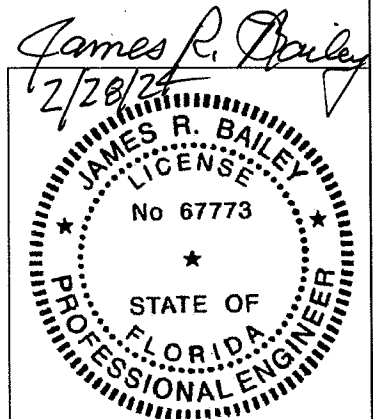
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1 SECTION VIEW OF ANGLE MOUNTED SCREEN
2 SCALE: NTS = 1'-0"

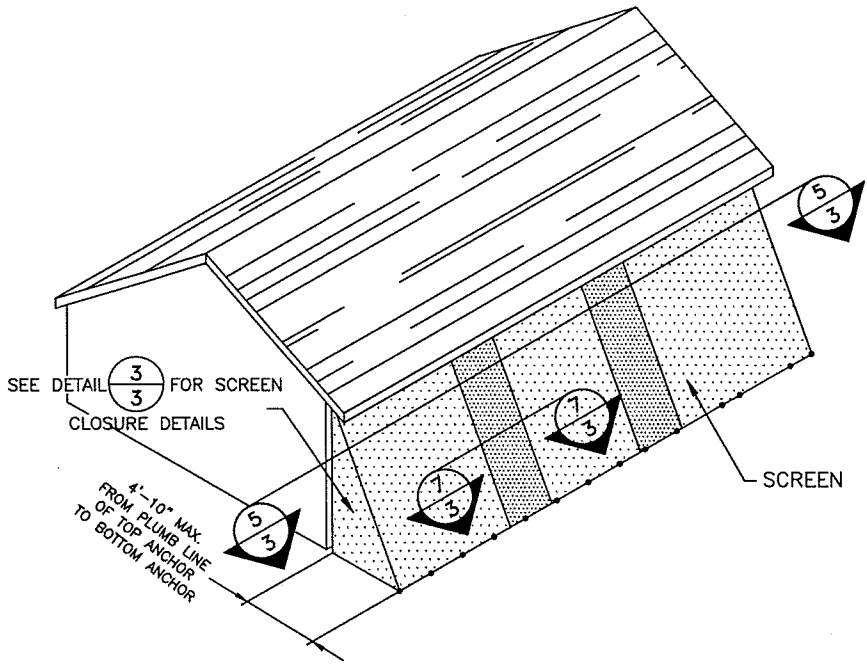


2 CROSS SECTION OF ANG. MOUNTED SCREEN (SIDE VIEW/GARAGE DOOR)
2 SCALE: NTS = 1'-0"

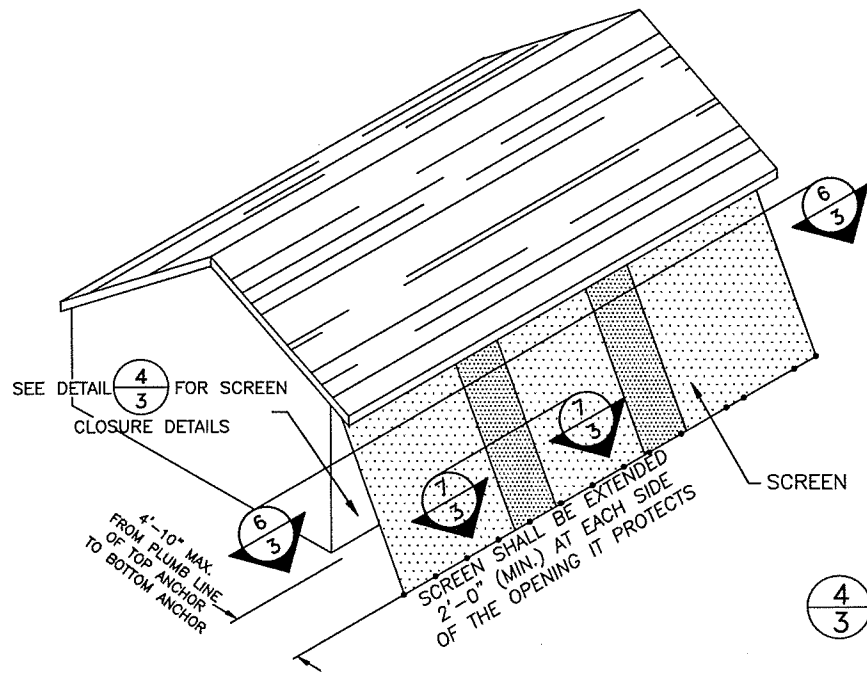


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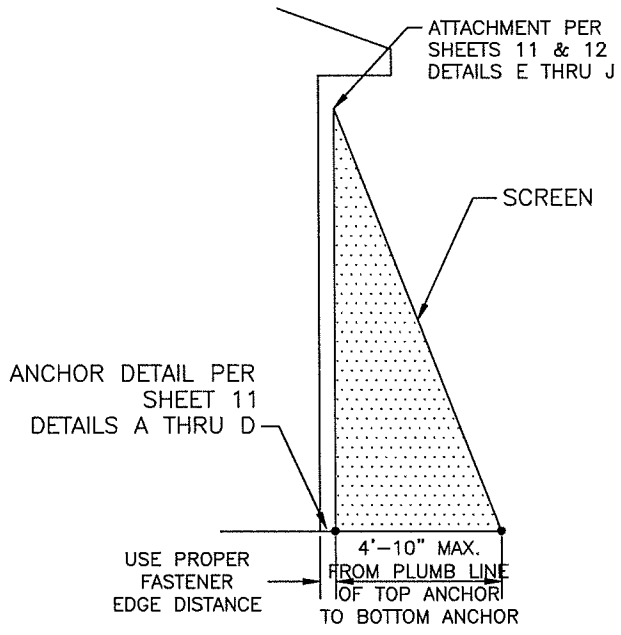
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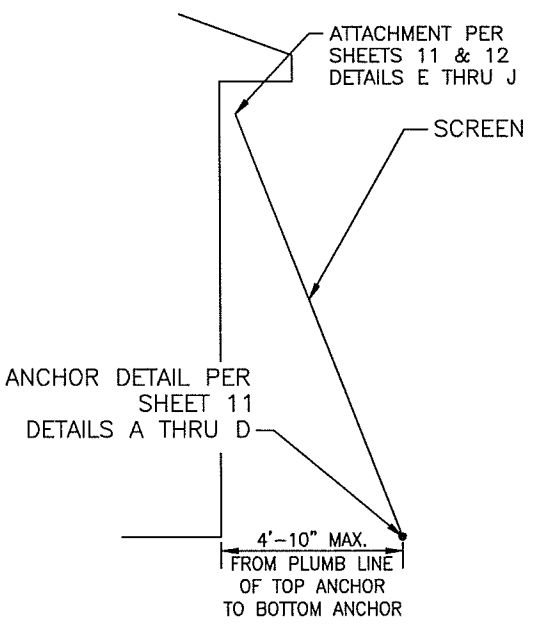
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3 SCREEN WITH SIDE CLOSURE SCREEN
SCALE: NTS = 1'-0"



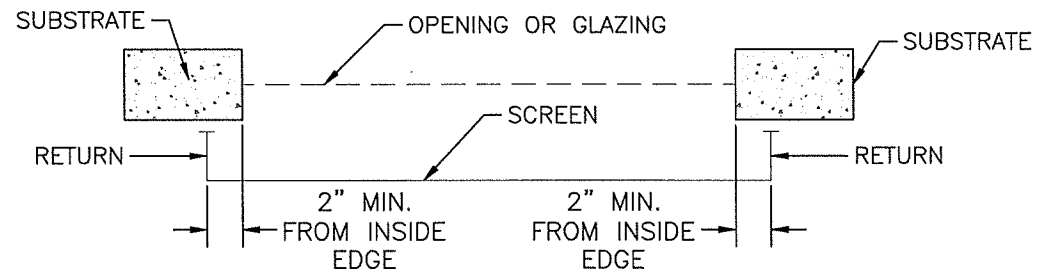
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3 SCREEN WITHOUT SIDE CLOSURE SCREEN
SCALE: NTS = 1'-0"



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

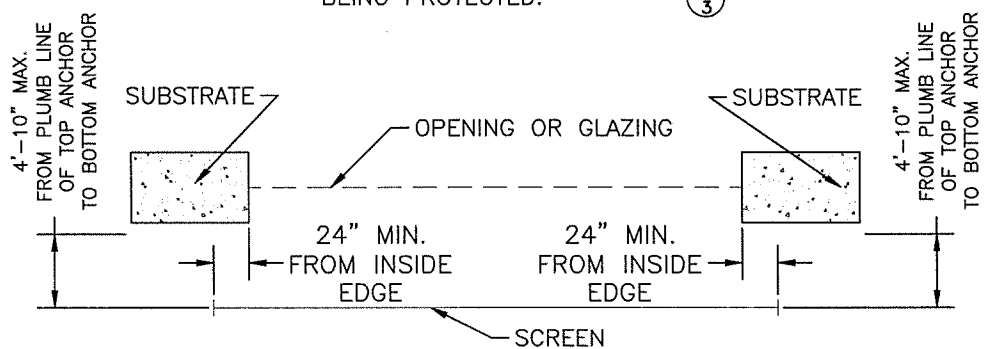


4
3 SIDE CLOSURE SCREEN - NO RETURN
SCALE: NTS = 1'-0"

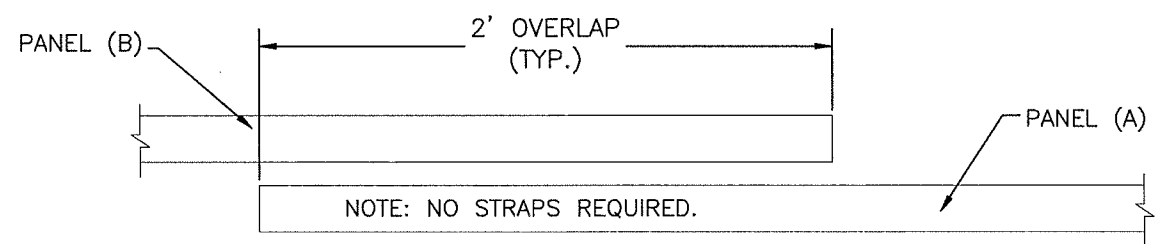


5
3 ANGLED SCREEN CLOSURE WITH RETURN (PLAN VIEW)
SCALE: NTS = 1'-0"

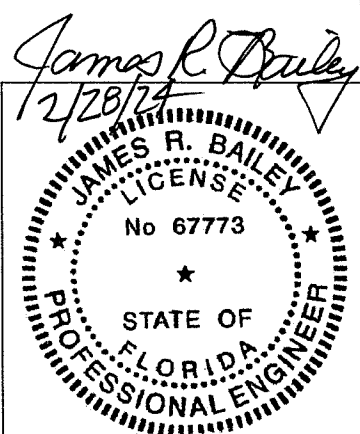
NOTE: SCREEN CLOSURE WITH RETURN OR (MIN) 24" OVERLAP OF OPENING BEING PROTECTED.



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

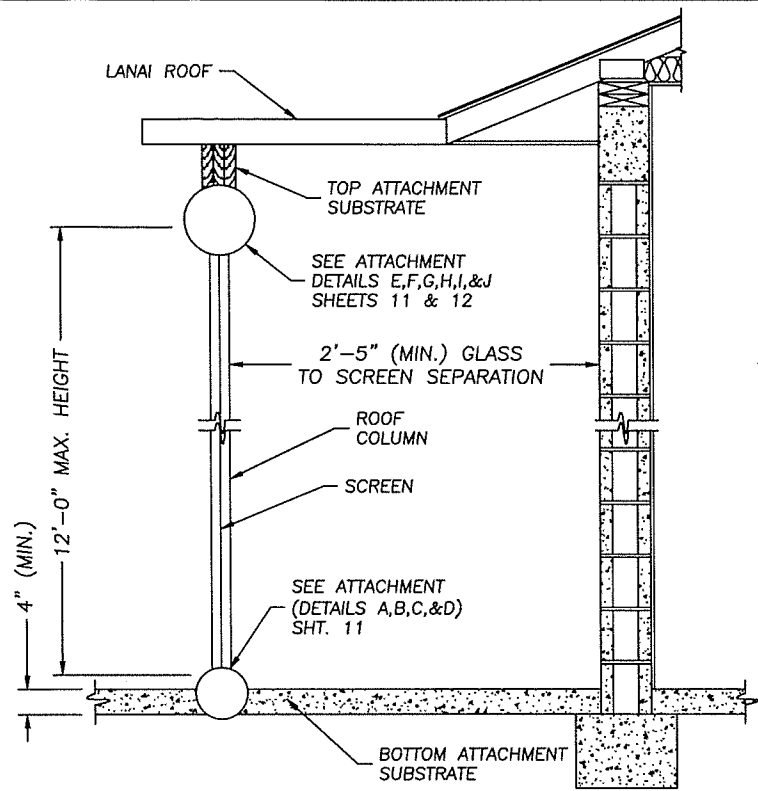


7
3 PANEL OVERLAP - SECTION
SCALE: NTS = 1'-0"

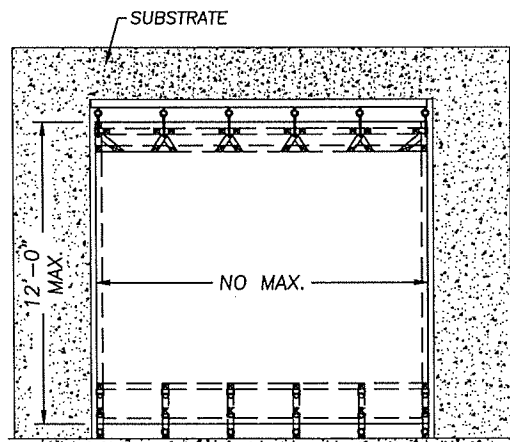


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LOCATION:	HOUSTON, TX	
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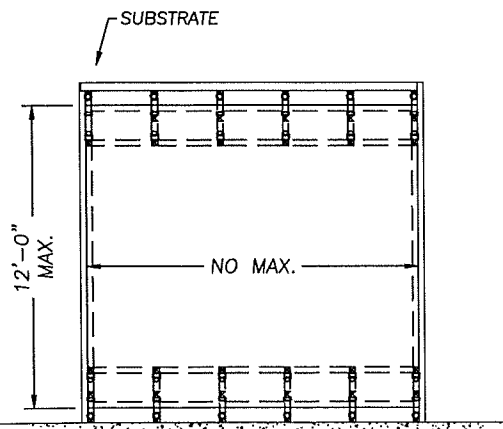
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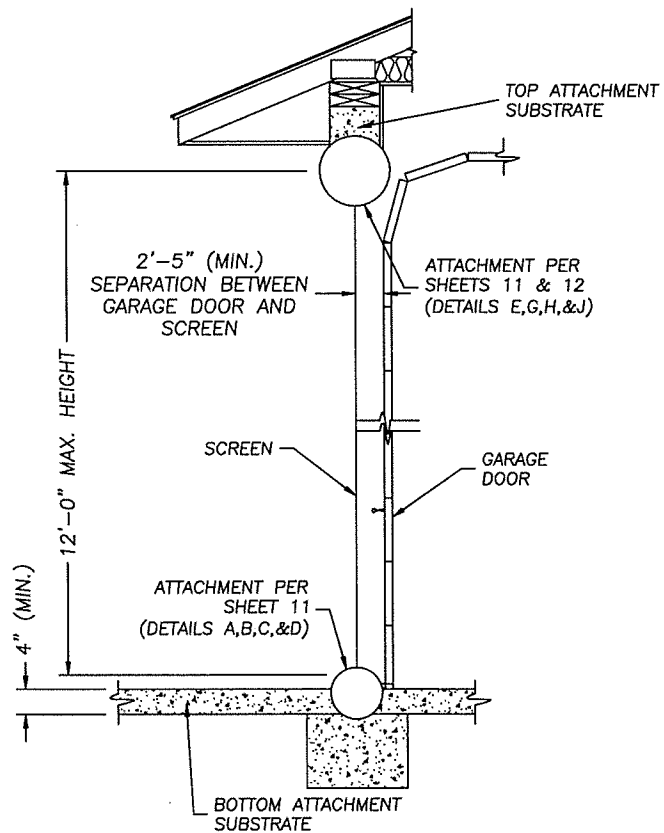
1 CROSS SECTION OF VERT. MOUNTED STRAIGHT DROP SCREEN (SIDE VIEW)/LANAI
4 SCALE: NTS = 1'-0"



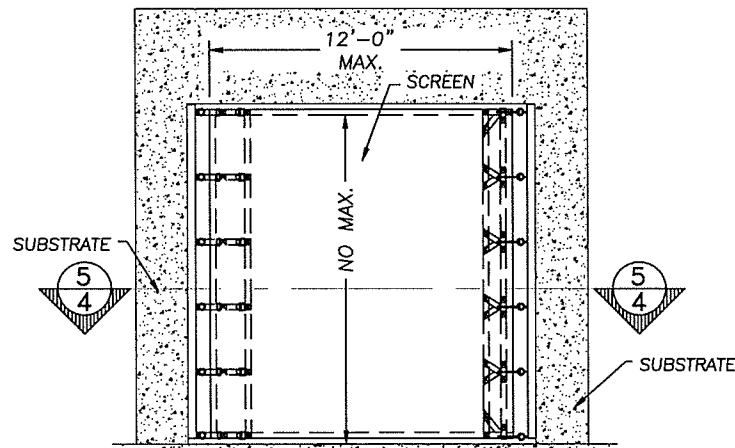
3 VERT. MOUNTED STRAIGHT DROP SCREEN (ELEVATION)
4 SCALE: NTS = 1'-0"



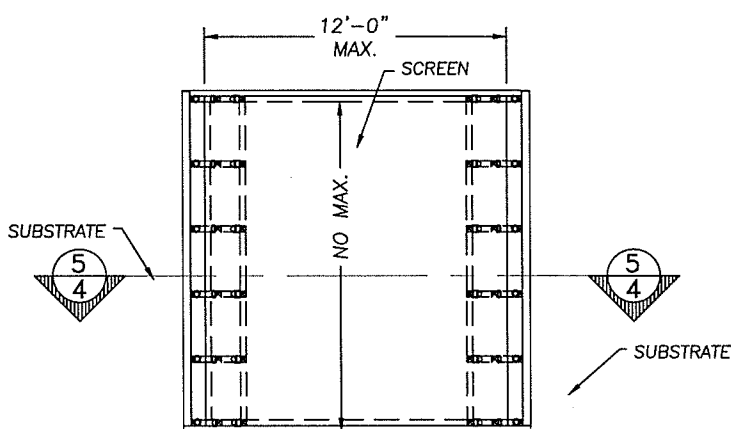
3.1 VERT. MOUNTED STRAP AND BUCKLE (ELEVATION) OPTION 2
4 SCALE: NTS = 1'-0"



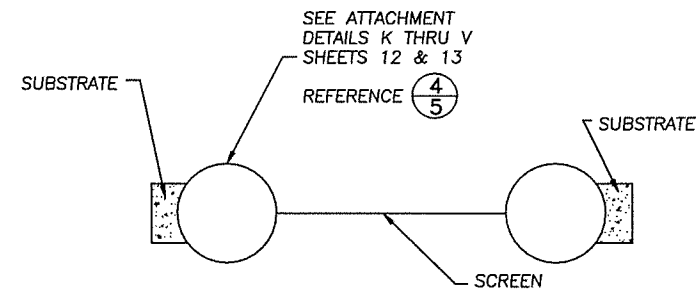
2 CROSS SECTION OF VERT. MOUNTED STRAIGHT DROP SCREEN (SIDE VIEW/GARAGE DOOR)
4 SCALE: NTS = 1'-0"



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

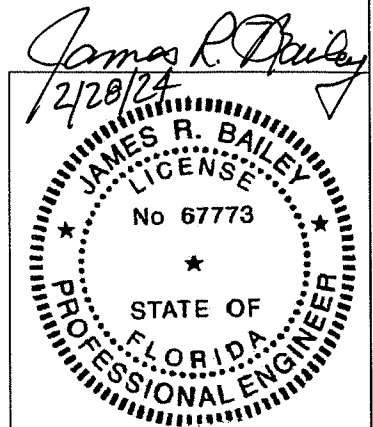


4.1 HOR. MOUNTED STRAP AND BUCKLE (ELEVATION) OPTION 2
4 SCALE: NTS = 1'-0"



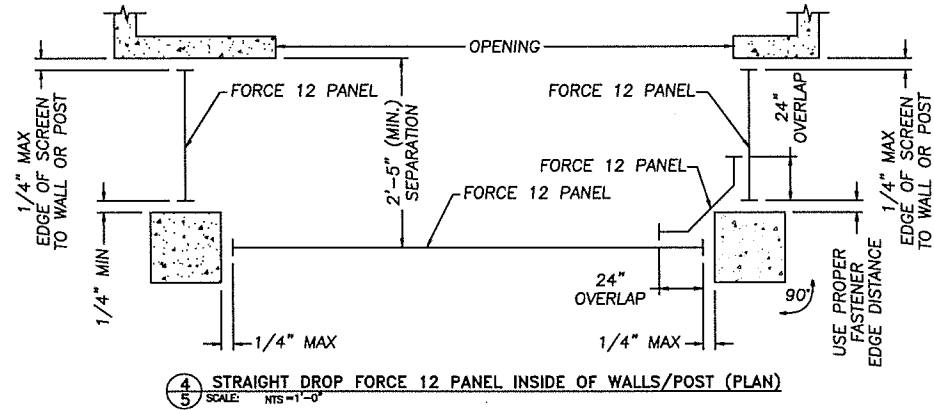
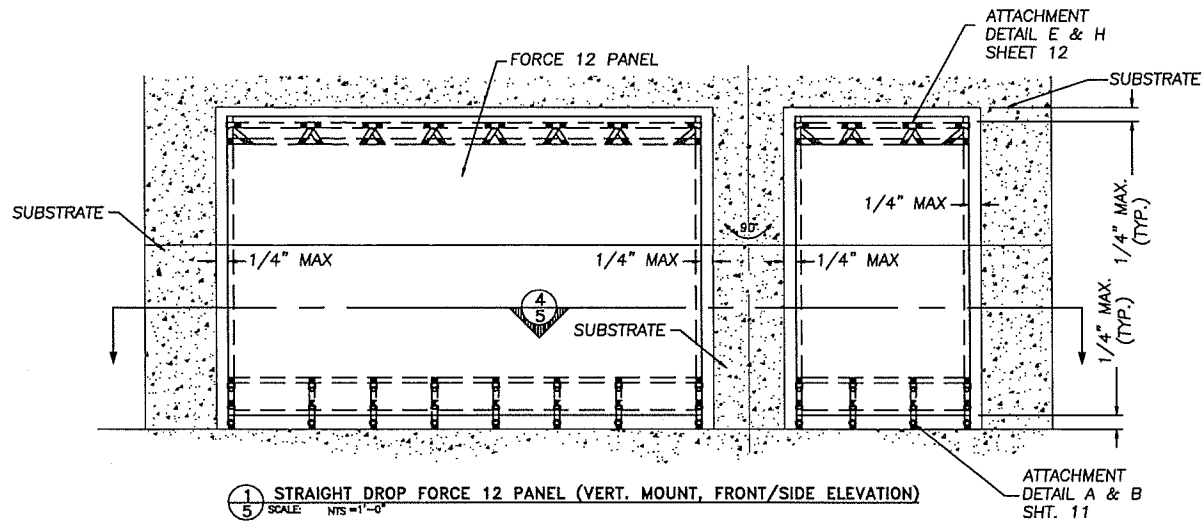
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5 SECTION OF HOR. MOUNTED STRAIGHT DROP SCREEN (PLAN VIEW)
4 SCALE: NTS = 1'-0"

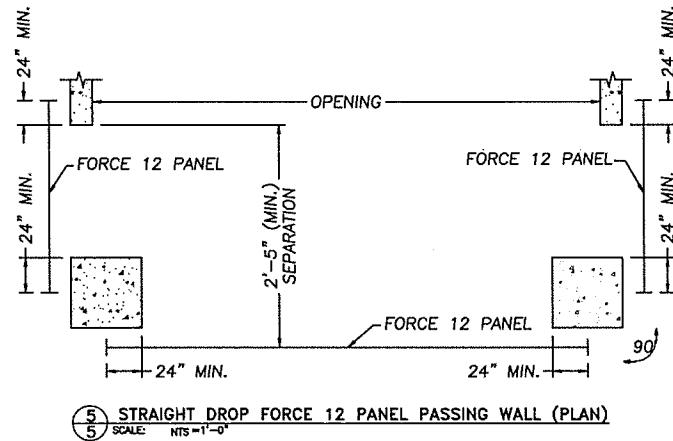
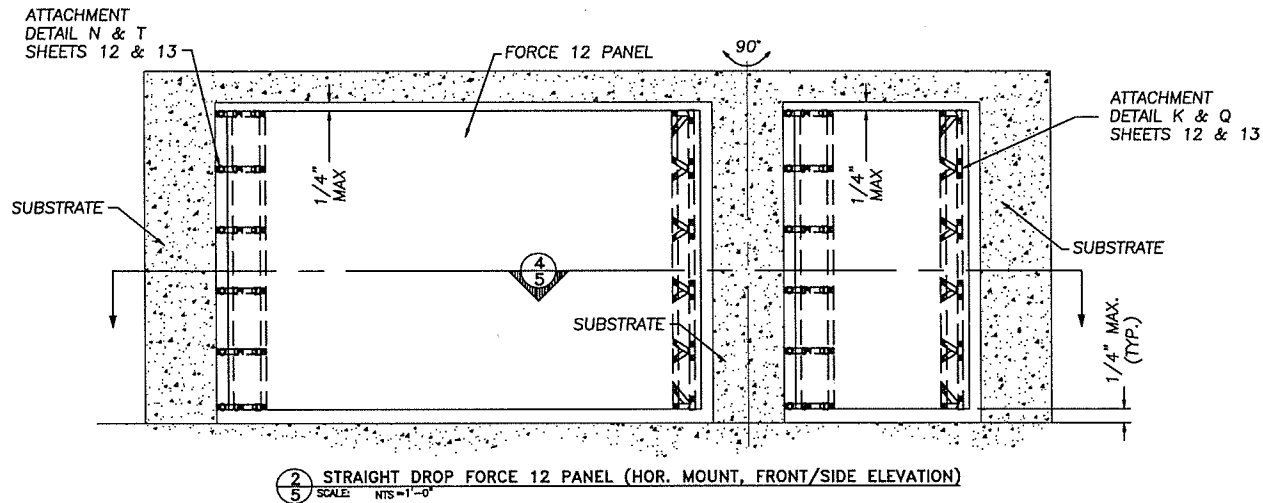


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TITLE: FORCE 12 - SERIES 500 PLUS - STRAP & BUCKLE	REVISION: 0										
DATE: 2/27/24											
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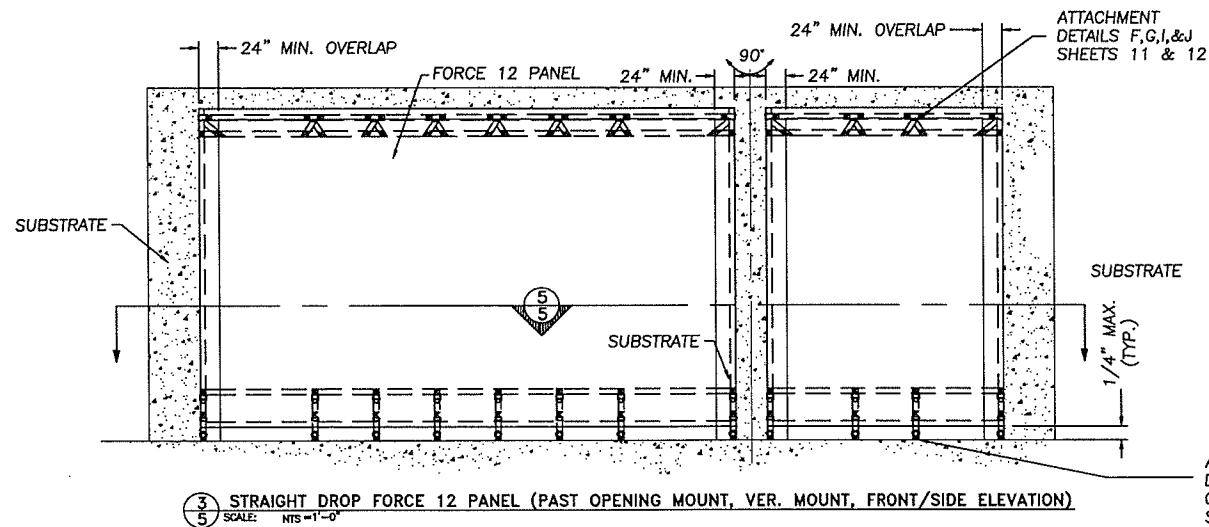
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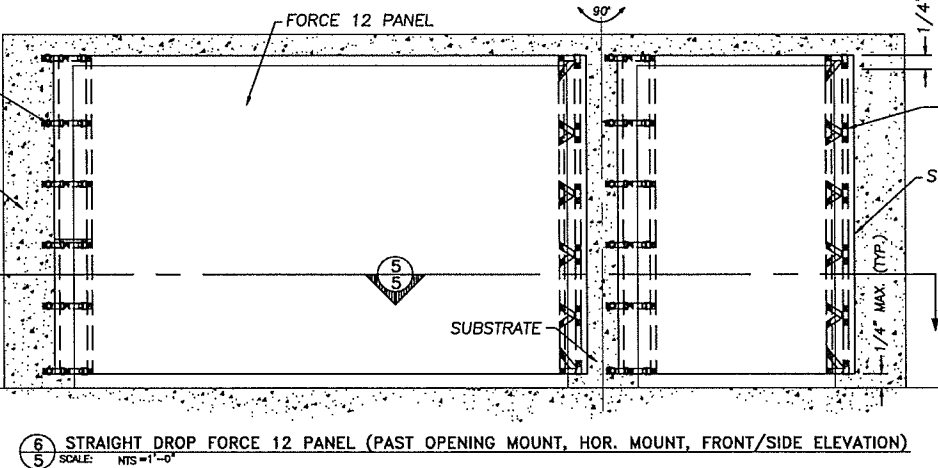


NOTE: SCREEN CLOSURE WITH (5/3) RETURN OR (MIN) 24\"/>



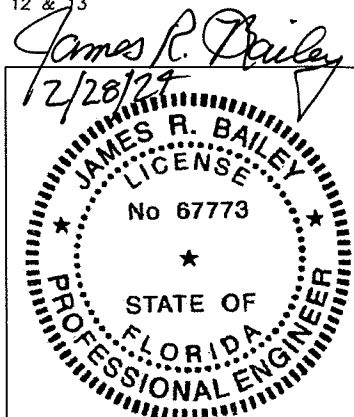
ATTACHMENT DETAILS O,P,U,&V SHEET 13

SUBSTRATE



ATTACHMENT DETAIL L,M,R,&S SHEETS 12 & 13

SUBSTRATE



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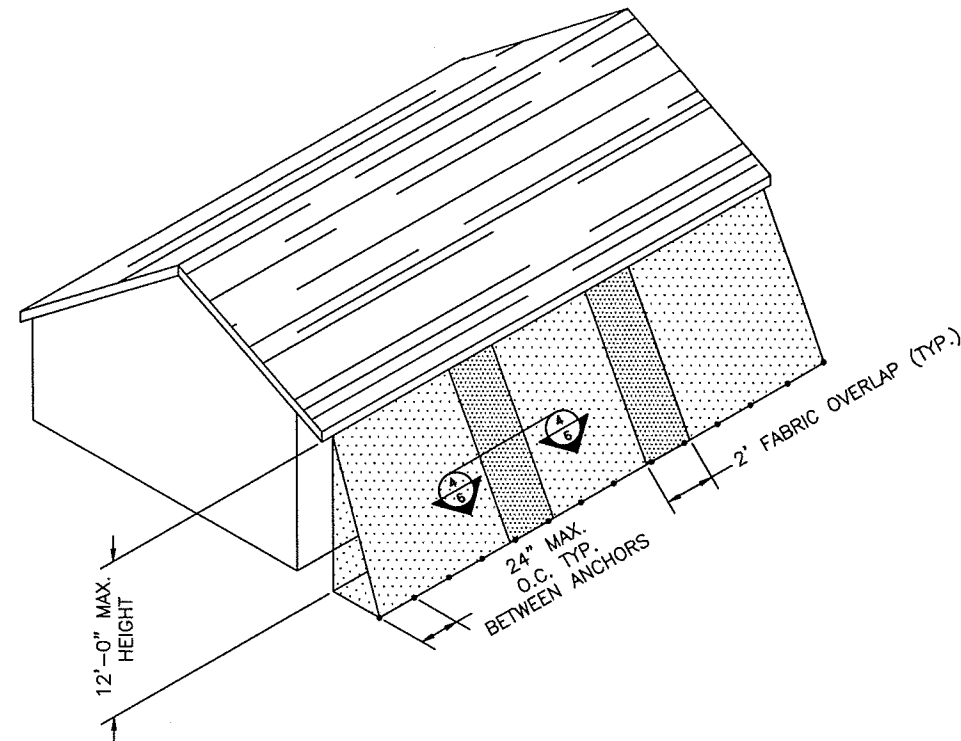
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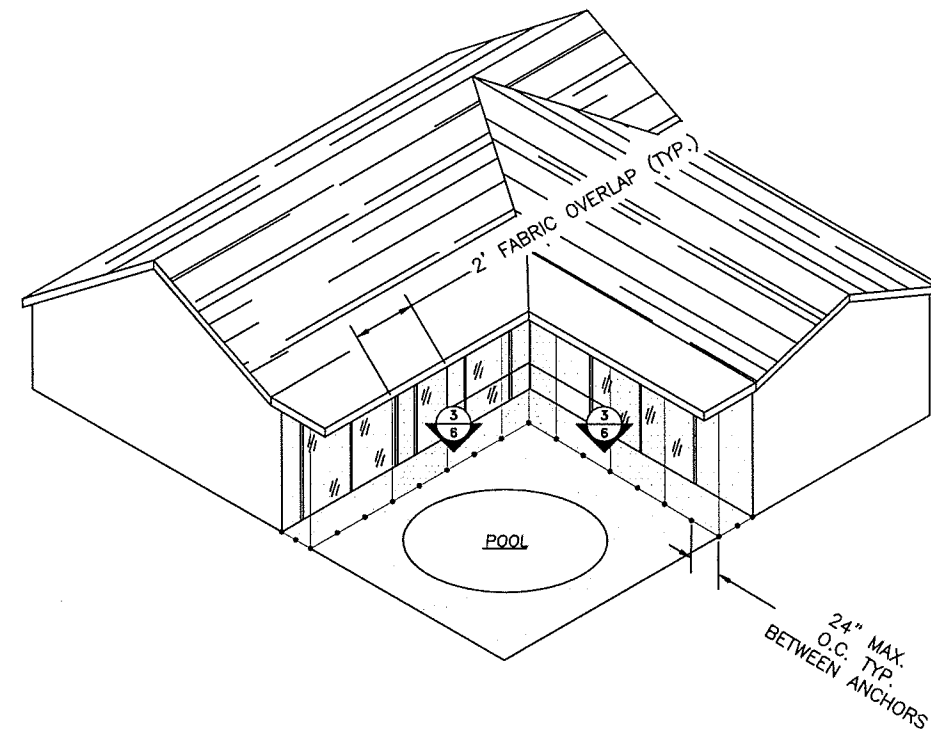
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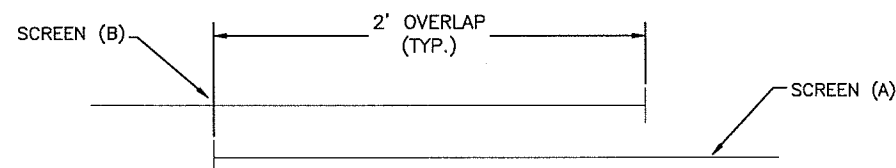
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1 ANGLED SCREEN OVERLAP - IN APPLICATION
6 SCALE: NTS=1'-0"

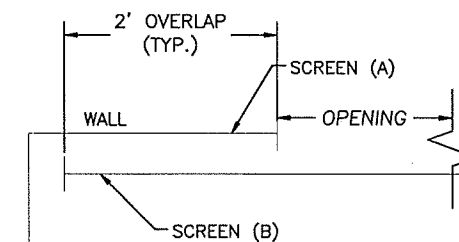


2 VERTICAL SCREEN CORNER OVERLAP - IN APPLICATION
6 SCALE: NTS = 1'-0"



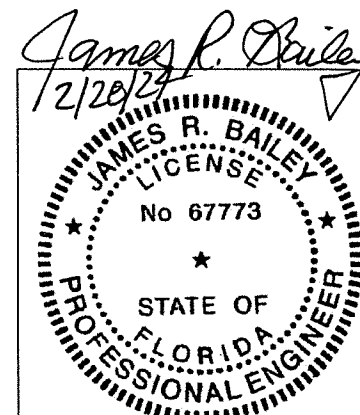
**NOTE: NO STRAPS REQUIRED
TO JOIN OVERLAPING SCREENS**

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



NOTE: NO STRAPS REQUIRED
TO JOIN OVERLAPING SCREENS

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



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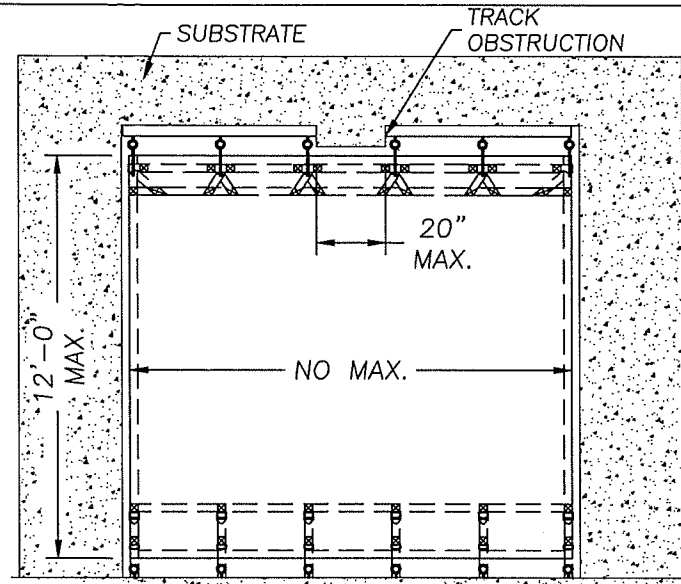
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TITLE:	FORCE 12 - SERIES 500 PLUS - STRAP & BUCKLE	
DATE:	2/27/24	REVISION: 0

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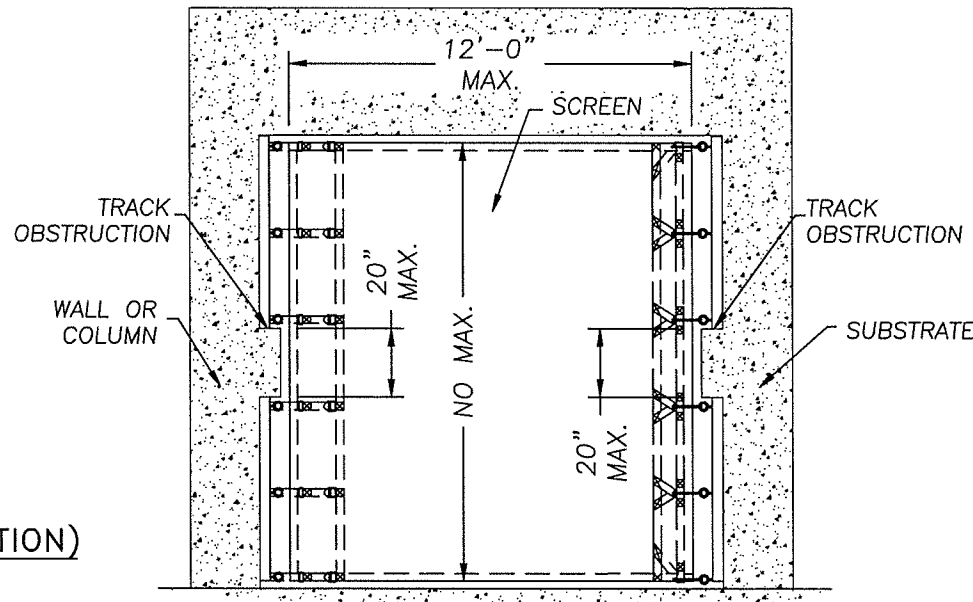
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JOB NUMBER:	148054
DOCUMENT DATE:	2/27/24

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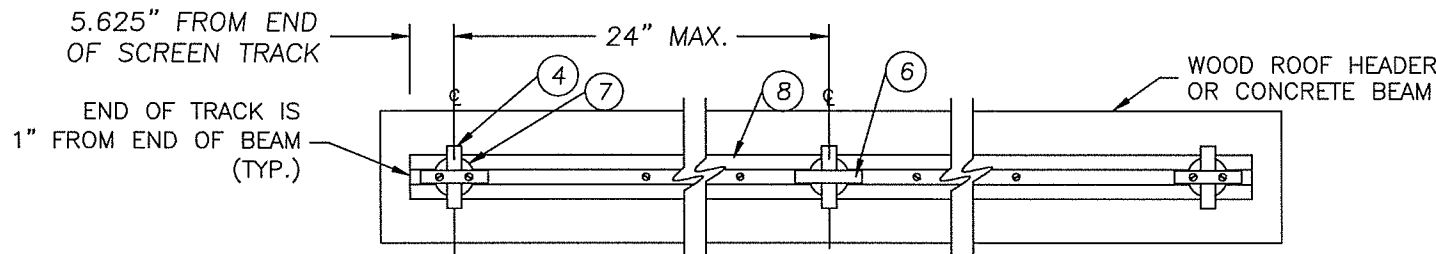
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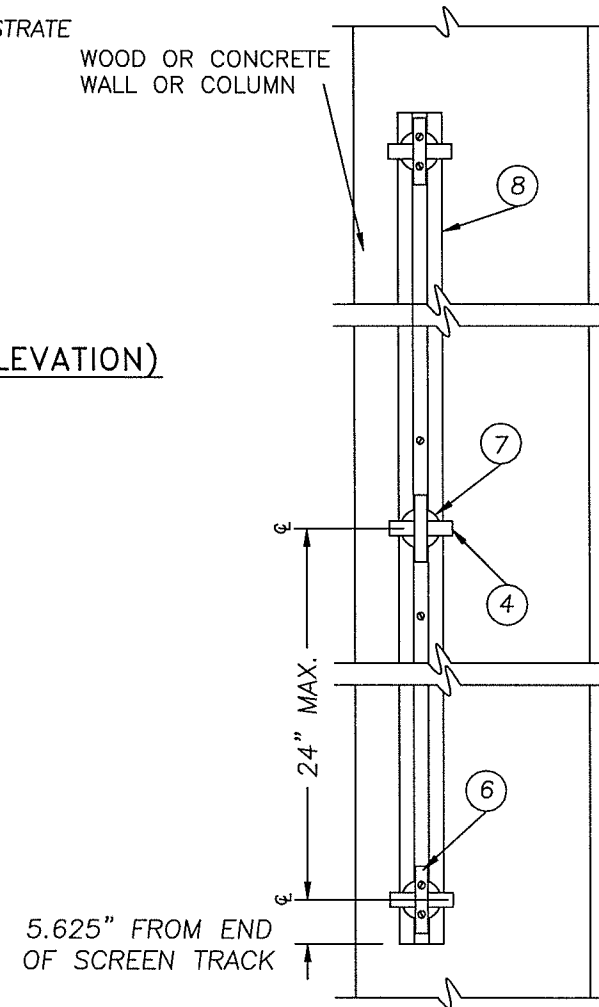
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7 VERT. OR ANG. MOUNTED SCREEN W/ TRACK OBSTRUCTION (ELEVATION)
SCALE: NTS = 1'-0"



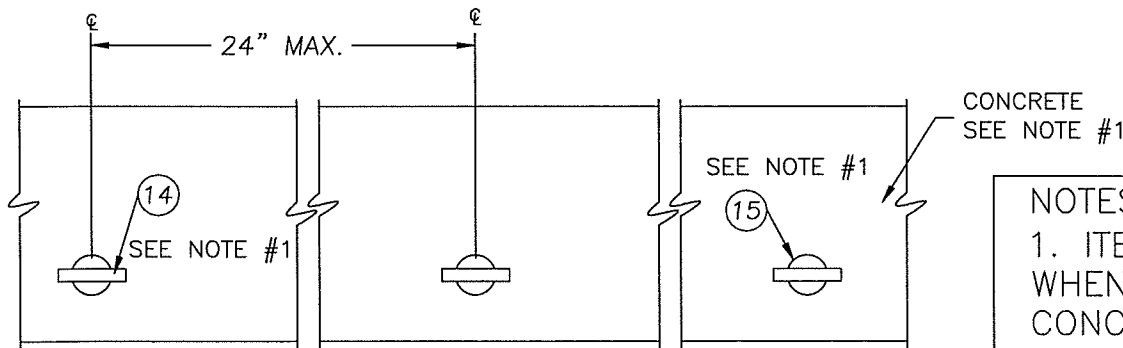
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7 HOR. MOUNTED SCREEN W/ TRACK OBSTRUCTION (ELEVATION)
SCALE: NTS = 1'-0"



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

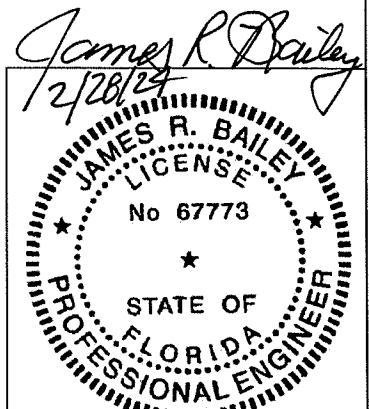


4
7 ELEVATION AT LEFT OR RIGHT SIDE MOUNTING IN WOOD OR CONCRETE
SCALE: NTS = 1'-0"



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

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



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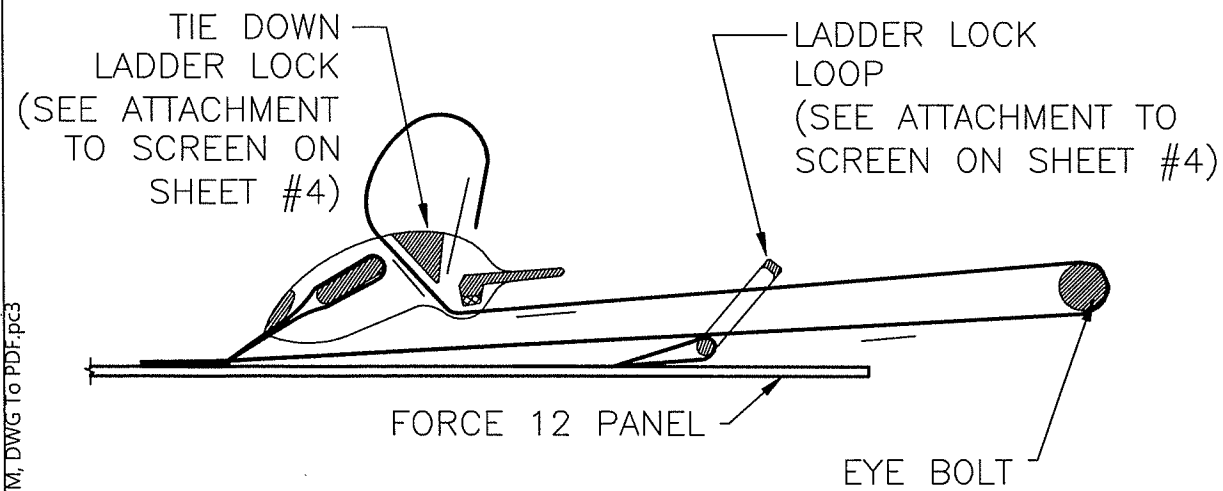
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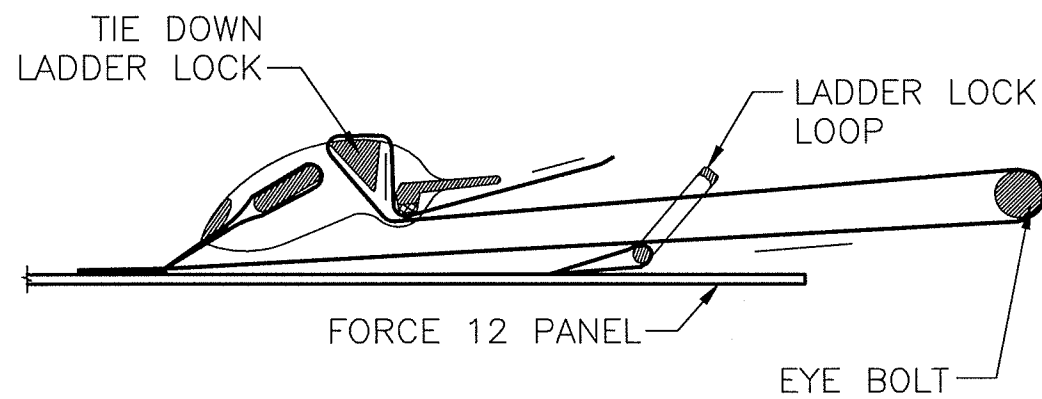
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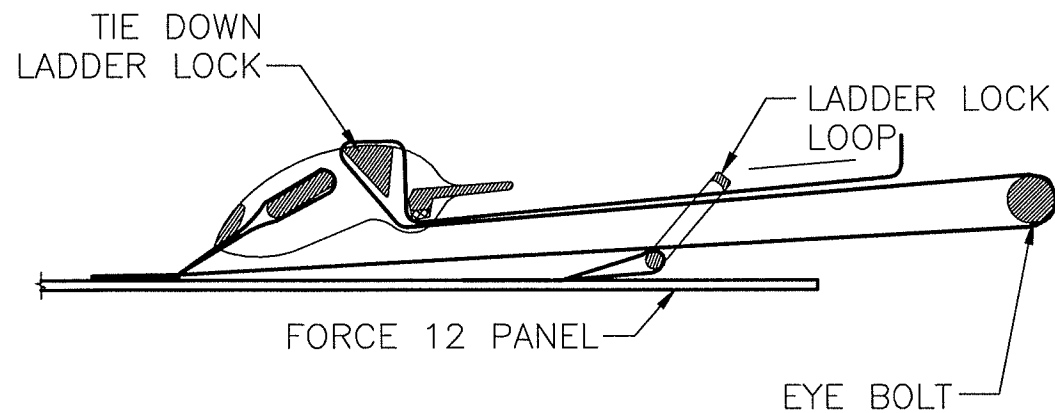
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2 STRAP PATH - THROUGH BUCKLE
D1 SCALE: N.T.S. = 1'-0"



3 STRAP PATH - TIGHTEN
D1 SCALE: NTS = 1'-0"



4 STRAP PATH - THROUGH LOOP
D1 SCALE: NTS = 1'-0"

SCREEN ATTACHMENT STRAP DETAIL
AT THE BOTTOM OF SCREEN

ATTACHED TO FORCE 12 PANEL,
RE: PANEL STITCH DETAIL

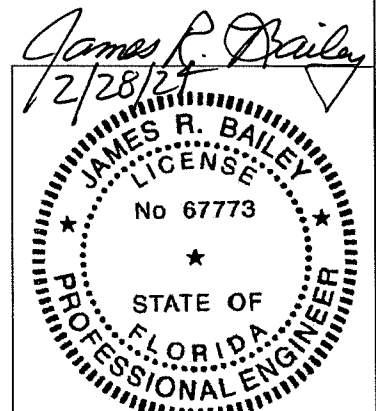
STRAP
(2" WEBBING)

TIE DOWN
LADDER LOCK

LADDER LOCK
LOOP

PULL TIGHT THROUGH
BUCKLE

1 PANEL ATTACHMENT - STRAP
D1 SCALE: NTS = 1'-0"



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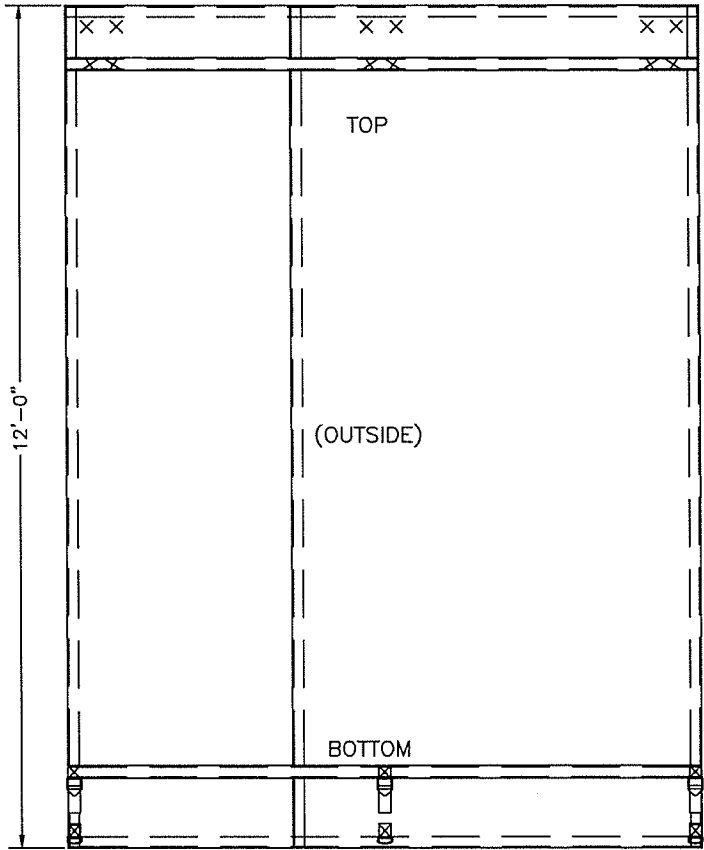
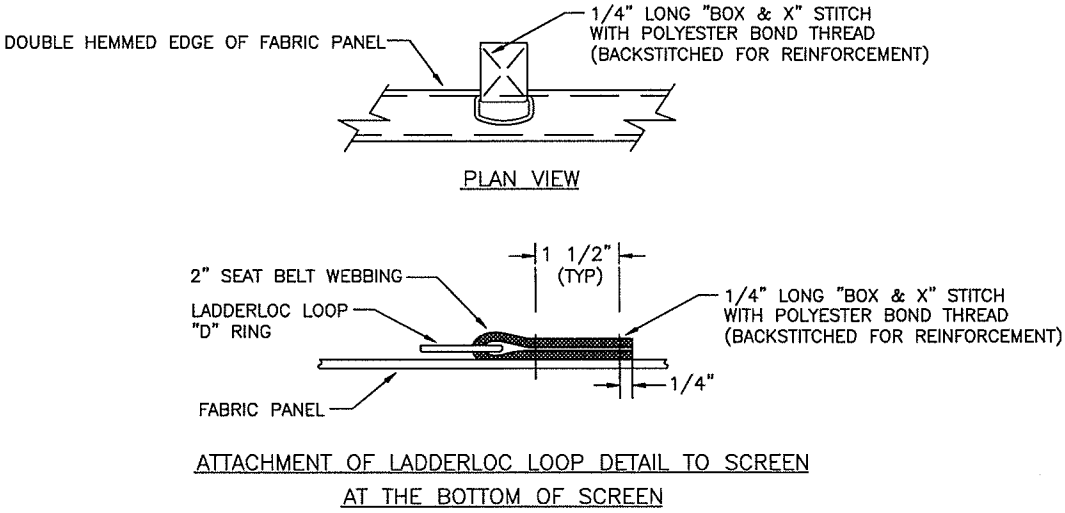
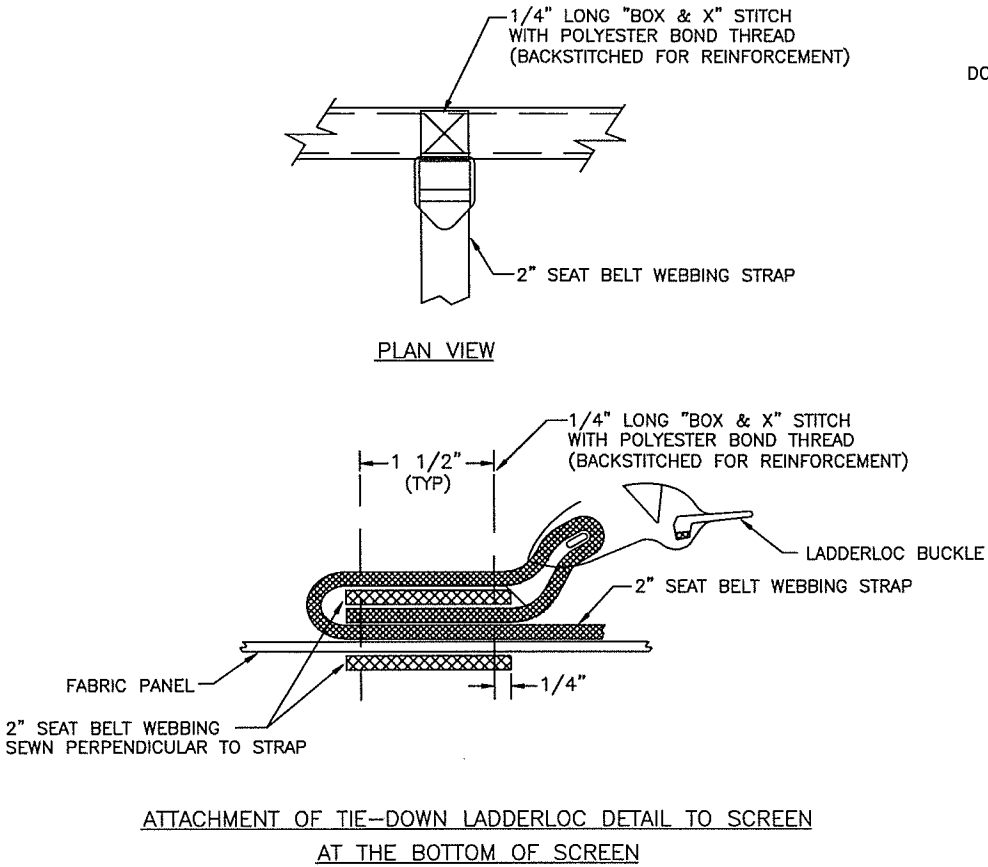
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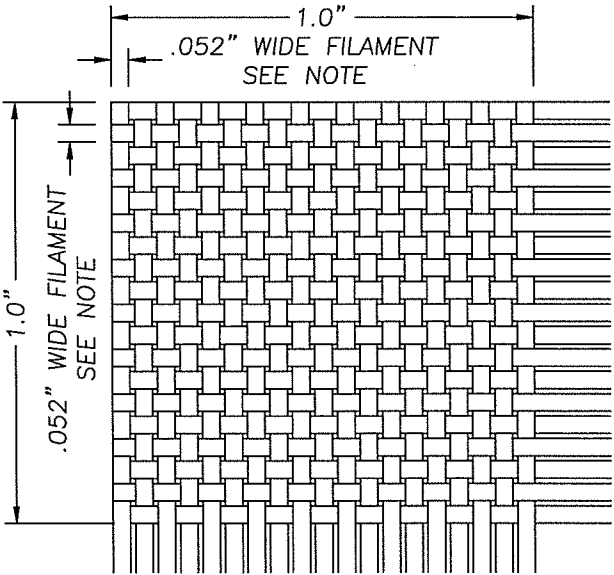
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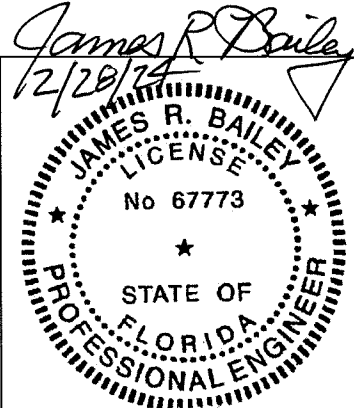


(OUTSIDE STITCHING DETAILS. THE SCREEN IS MANUFACTURED IN (3) STYLES; VERTICAL SEAM, HORIZONTAL SEAM, & NON-SEAMED OVERLAPPED FABRIC PANELS)

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 ²
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 ²
PUNCTURE STRENGTH (ASTM D-3787, MODIFIED)	165 LBS
U.V. RESISTANCE (ASTM G-53, % RETAINED AT 5,000 HOURS)	90%
AIR FLOW	230 CFM



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.



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(281) 403-2825
FL COA #28156

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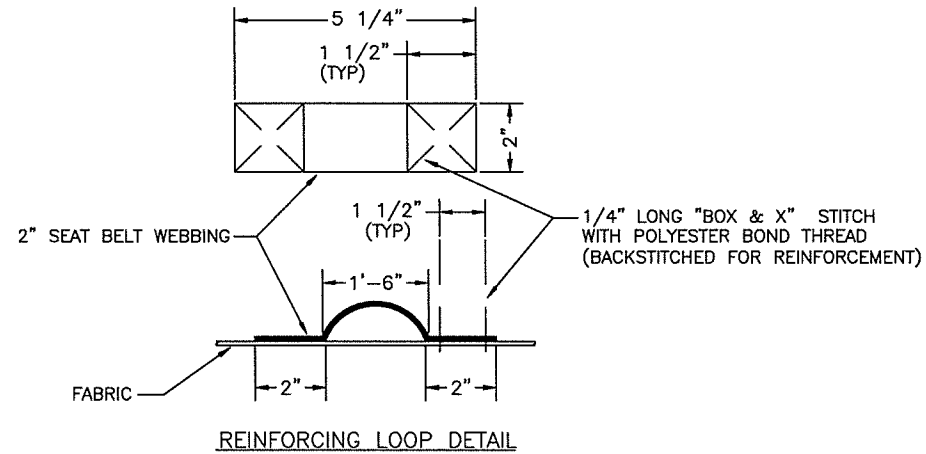
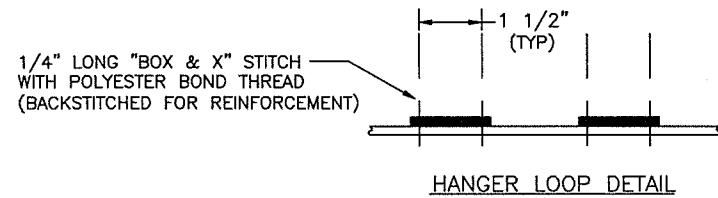
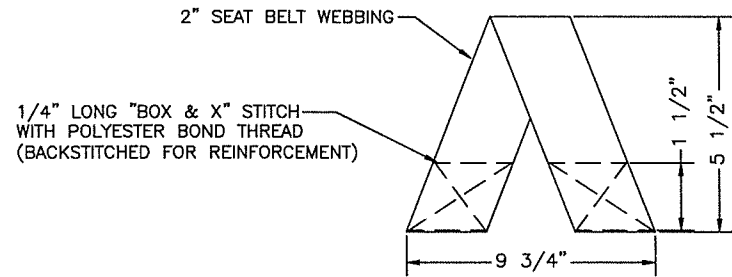
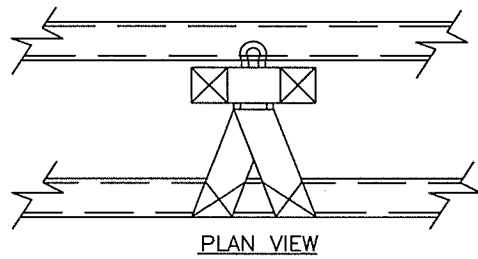
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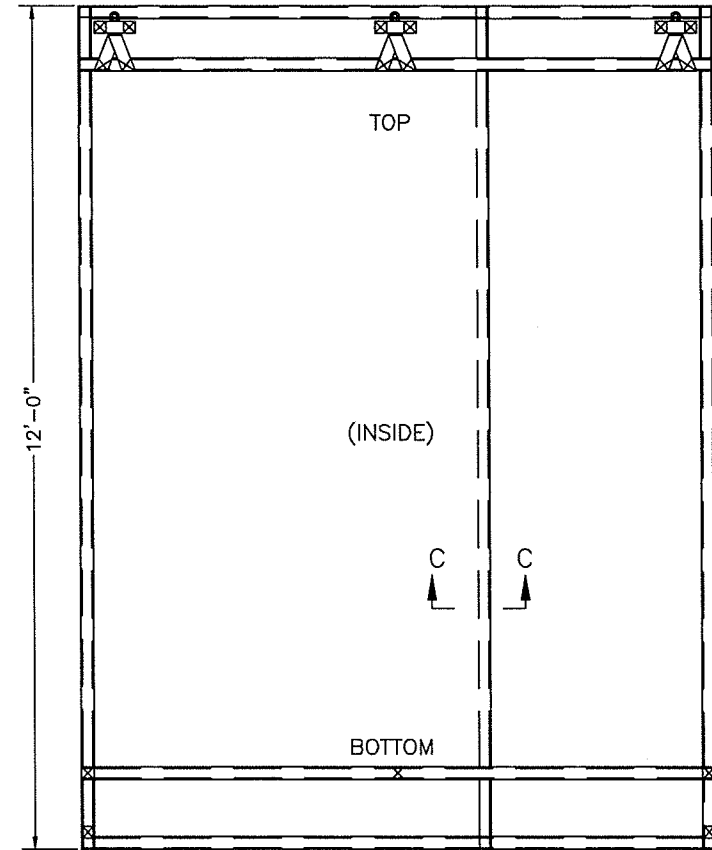
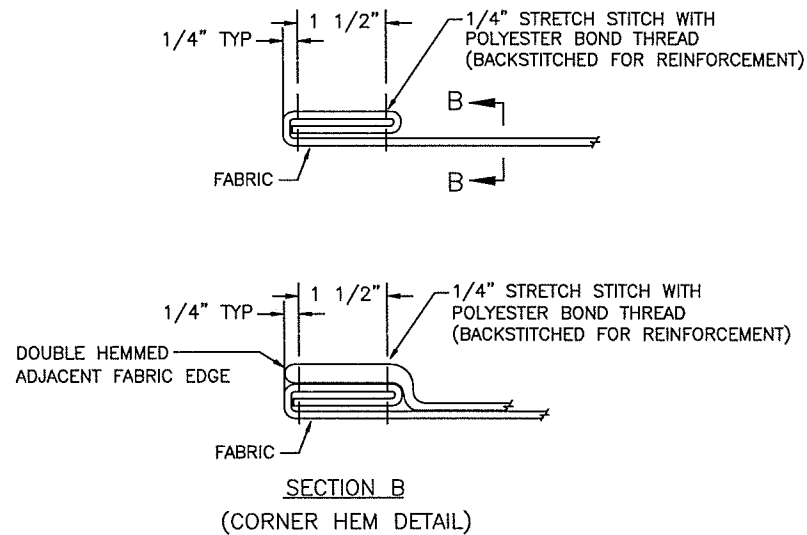
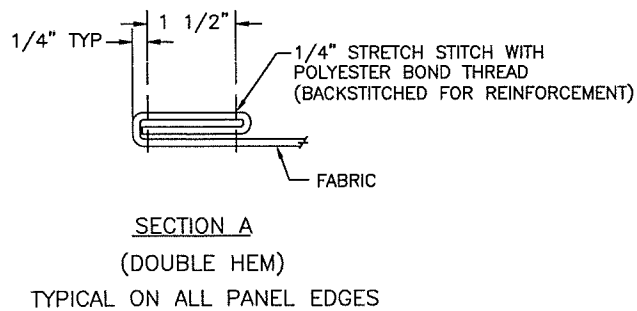
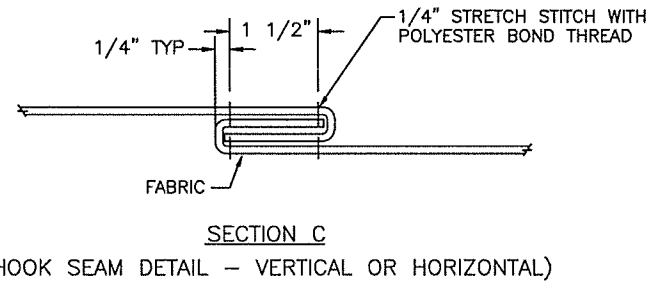
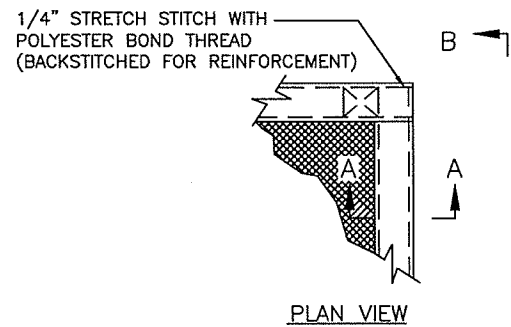
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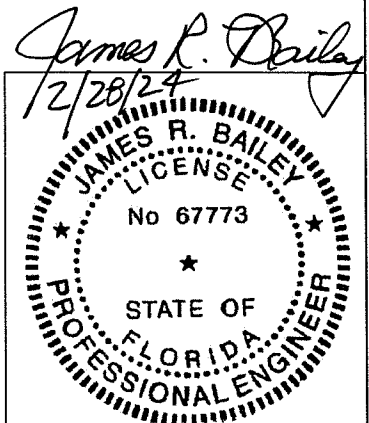
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SCREEN ATTACHMENT LOOP DETAIL AT THE TOP OF SCREEN



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



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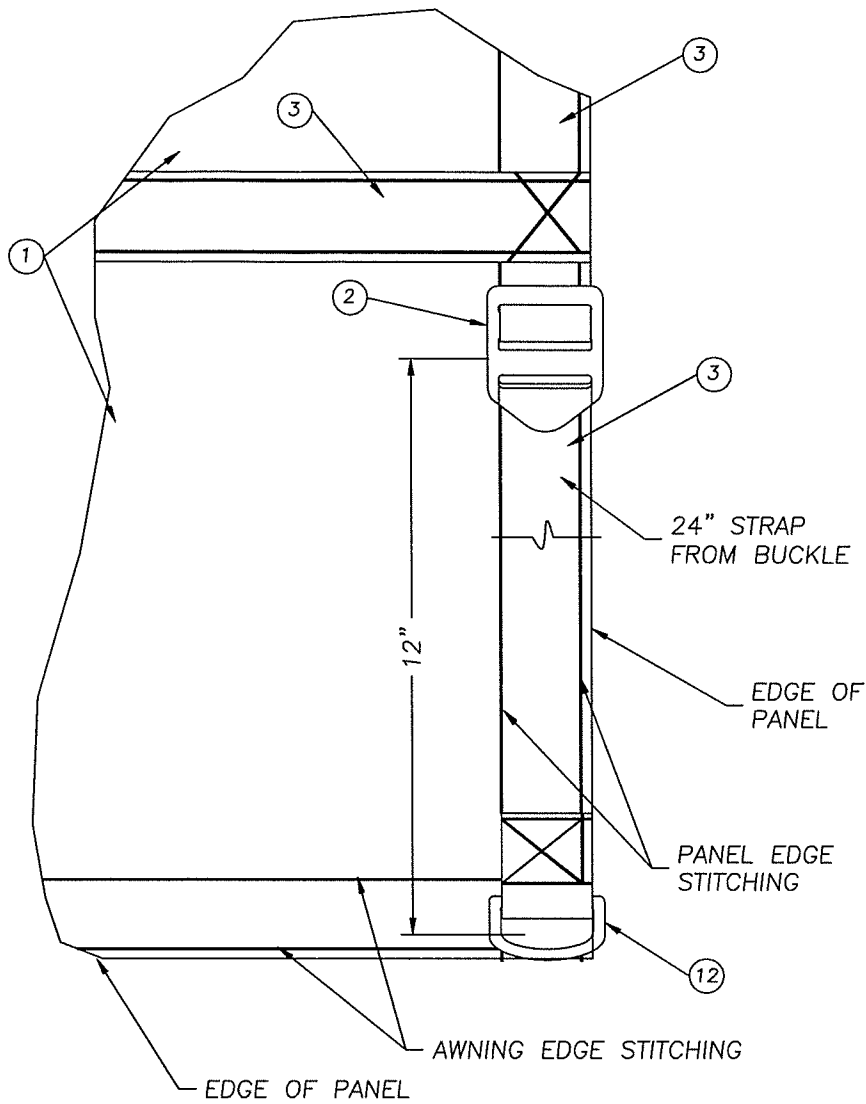
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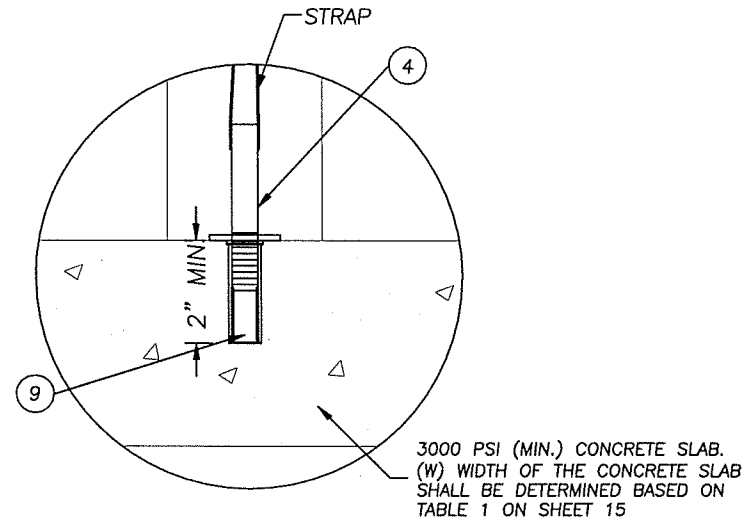
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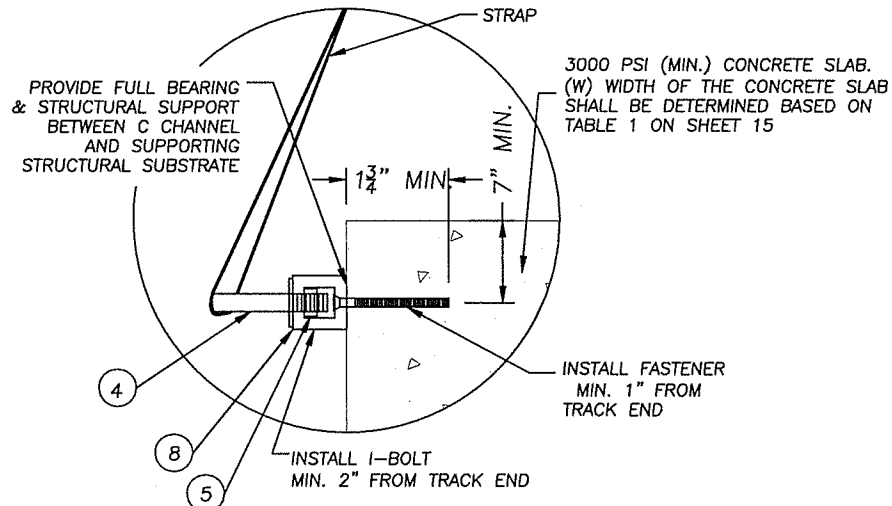
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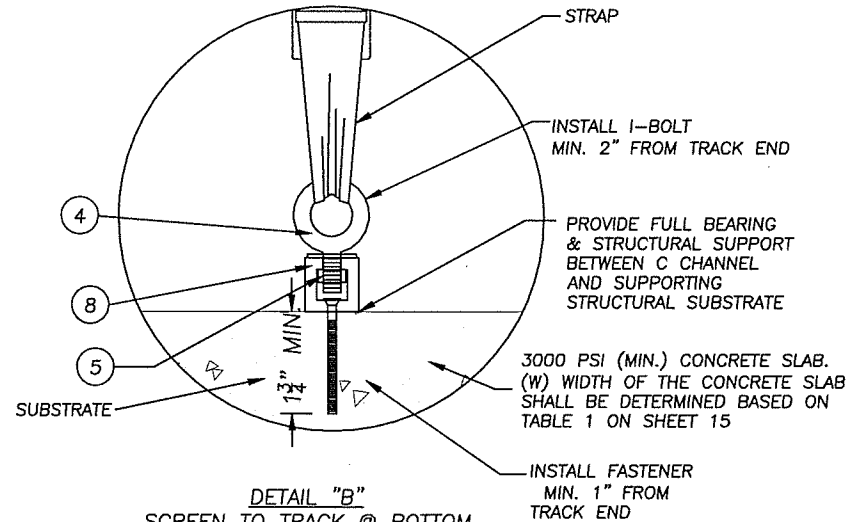
STITCHING DETAIL



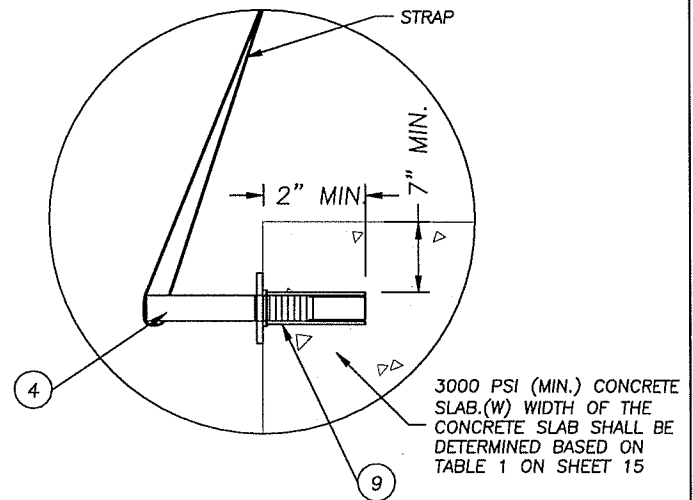
DETAIL "A"
SCREEN TO CONCRETE @ BOTTOM
DROP-IN ANCHOR IS INSTALLED VERTICALLY
(USE MIN. EDGE DISTANCE)



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



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



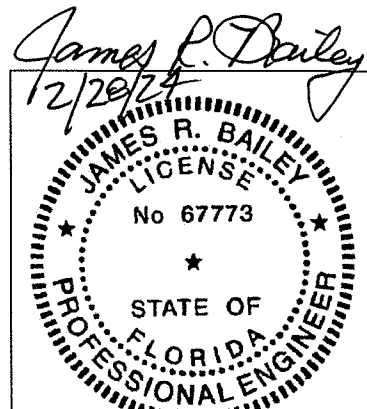
DETAIL "D"
SCREEN TO CONCRETE @ BOTTOM
DROP-IN ANCHOR IS INSTALLED HORIZONTALLY
(USE MIN. EDGE DISTANCE)

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).

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



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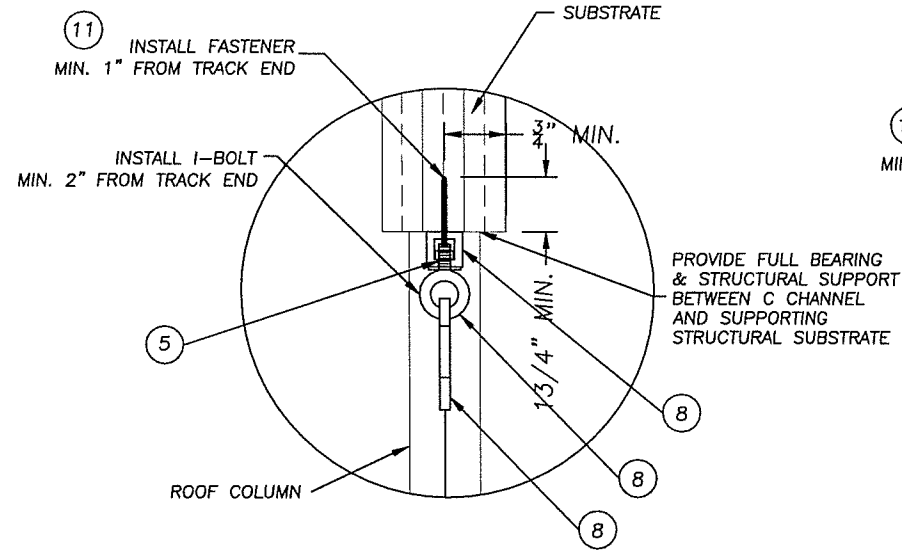
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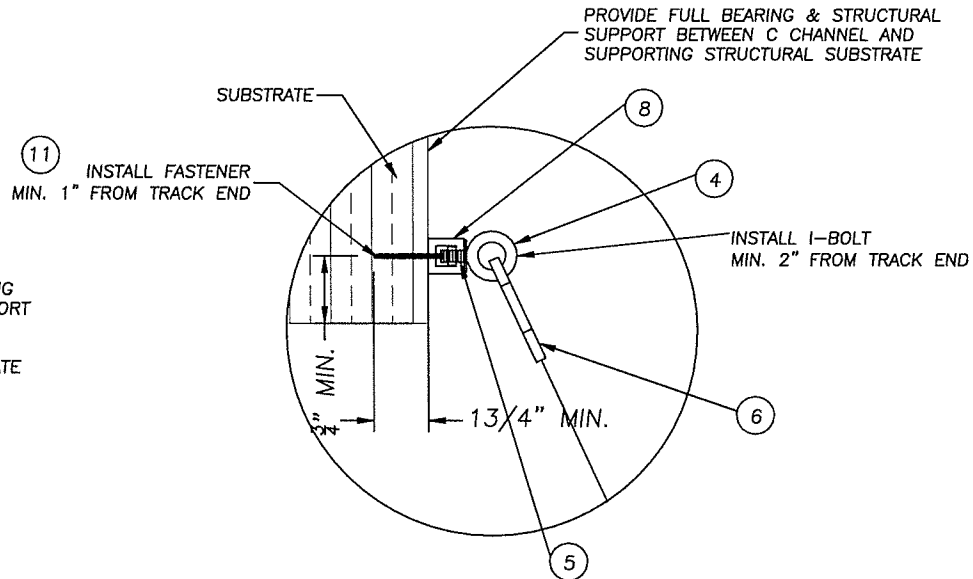
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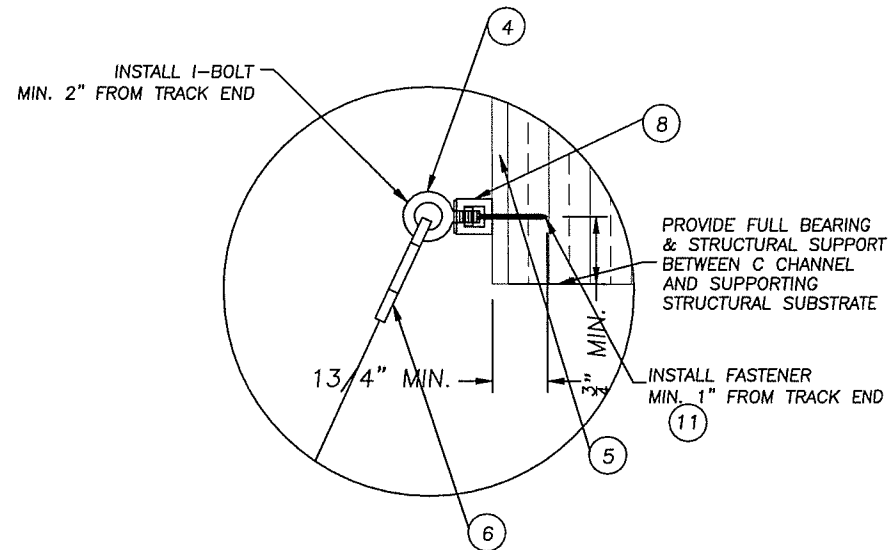
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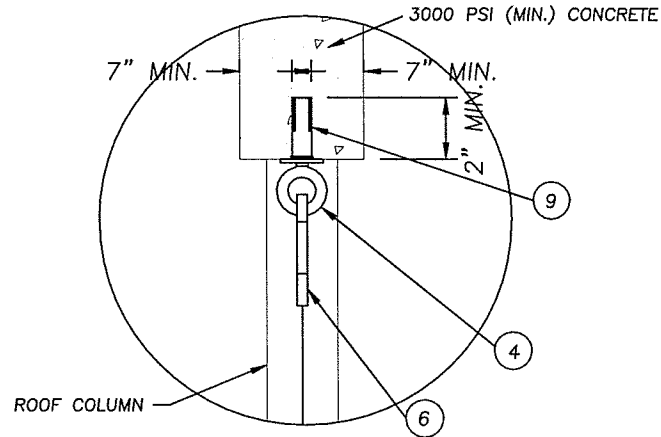
DETAIL "A"
SCREEN TO TRACK @ TOP
FASTENER IS INSTALLED HORIZONTALLY
(USE MIN. EDGE DISTANCE)



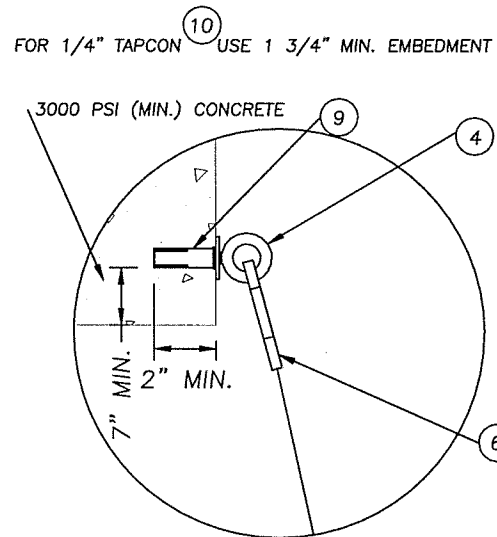
DETAIL "B"
SCREEN TO TRACK @ TOP
FASTENER IS INSTALLED HORIZONTALLY ON INSIDE
OF OPENING
(USE MIN. EDGE DISTANCE)



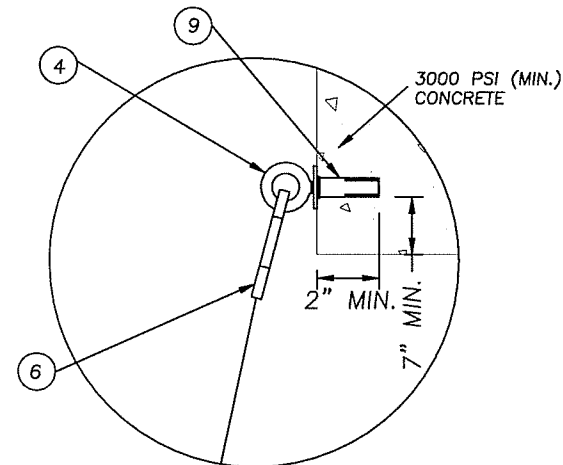
DETAIL "C"
SCREEN TO TRACK @ TOP
FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE
OF OPENING
(USE MIN. EDGE DISTANCE)



DETAIL "D"
SCREEN TO CONCRETE @ TOP
DROP-IN FASTENER IS INSTALLED VERTICALLY
(USE MIN. EDGE DISTANCE)



DETAIL "E"
SCREEN TO CONCRETE @ TOP
DROP-IN FASTENER IS INSTALLED HORIZONTALLY
ON INSIDE OF OPENING
(USE MIN. EDGE DISTANCE)



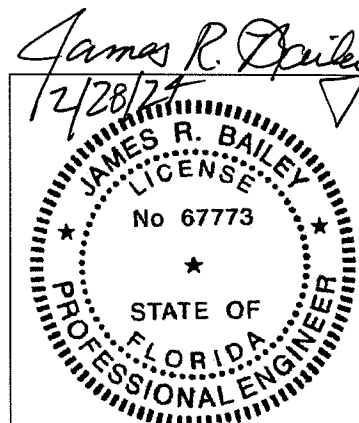
DETAIL "F"
SCREEN TO CONCRETE @ TOP
DROP-IN FASTENER IS INSTALLED HORIZONTALLY
ON OUTSIDE OF OPENING
(USE MIN. EDGE DISTANCE)

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).

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



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CLIENT: HENDEE ENTERPRISES

LOCATION: HOUSTON, TX

TITLE: FORCE 12 - SERIES 500 - STRAP & BUCKLE

DATE: 2/27/24

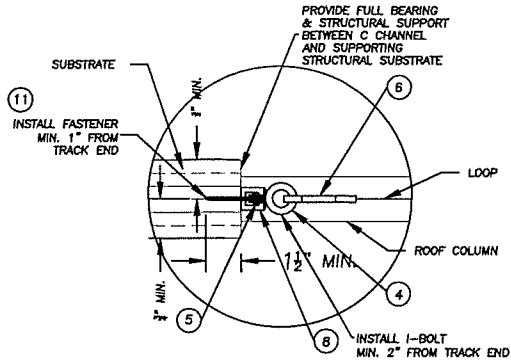
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REV	DATE	DESCRIPTION
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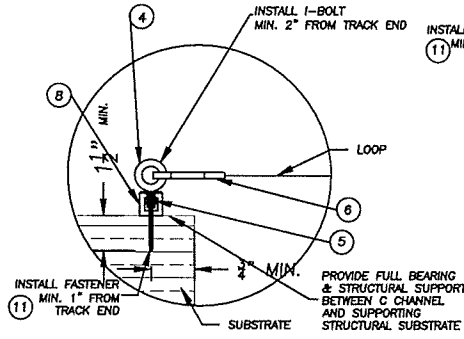
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JOB NUMBER: 148054
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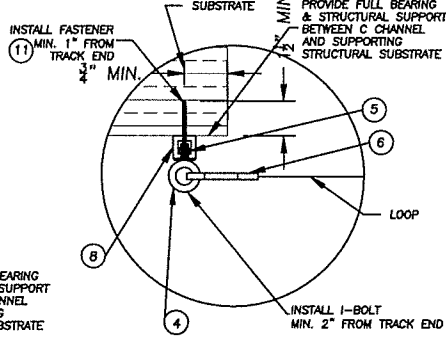
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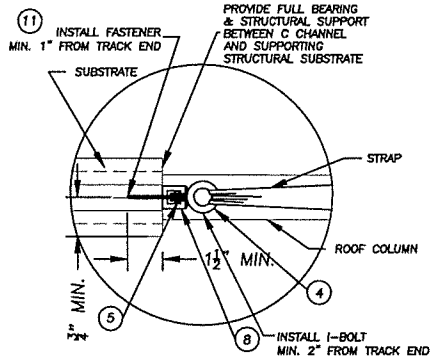
DETAIL "A"
SCREEN TO TRACK SIDE [LOOP END]
FASTENER IS INSTALLED HORIZONTALLY
(USE MIN. EDGE DISTANCE)



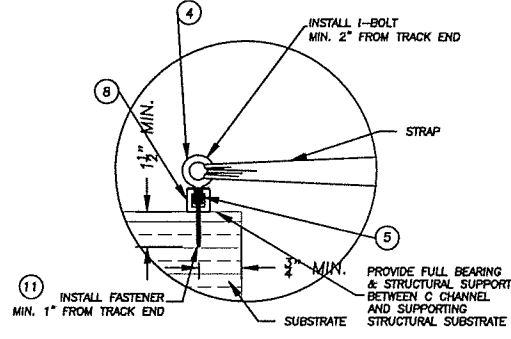
DETAIL "B"
SCREEN TO TRACK TOP [LOOP END]
FASTENER IS INSTALLED HORIZONTALLY ON INSIDE OF
OPENING
(USE MIN. EDGE DISTANCE)



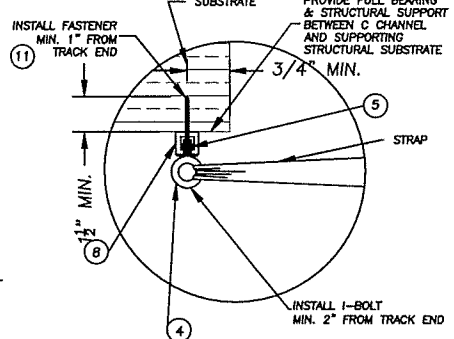
DETAIL "C"
SCREEN TO TRACK TOP [LOOP END]
FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE OF
OPENING
(USE MIN. EDGE DISTANCE)



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

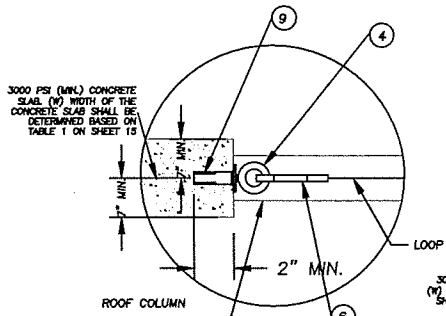


DETAIL "E"
SCREEN TO TRACK TOP [STRAP END]
FASTENER IS INSTALLED HORIZONTALLY ON INSIDE OF
OPENING
(USE MIN. EDGE DISTANCE)

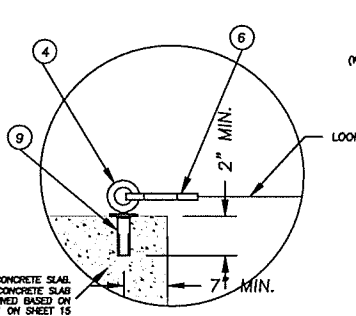


DETAIL "F"
SCREEN TO TRACK TOP [STRAP END]
FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE OF
OPENING
(USE MIN. EDGE DISTANCE)

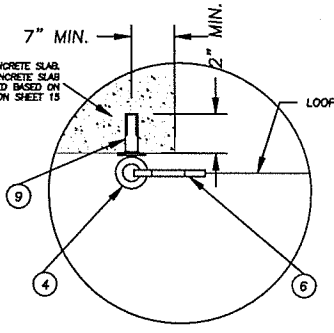
FOR 1/4" TAPCON ¹⁰ USE 1 3/4" MIN. EMBEDMENT



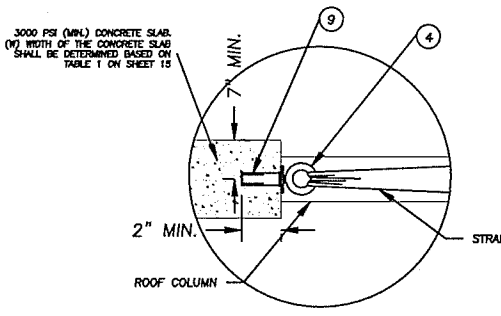
DETAIL "G"
SCREEN TO CONCRETE TOP [LOOP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY
(USE MIN. EDGE DISTANCE)



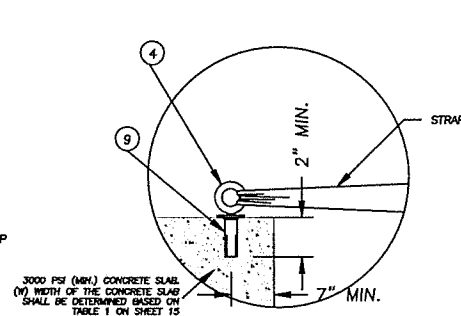
DETAIL "H"
SCREEN TO CONCRETE TOP [LOOP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY
ON INSIDE OF OPENING
(USE MIN. EDGE DISTANCE)



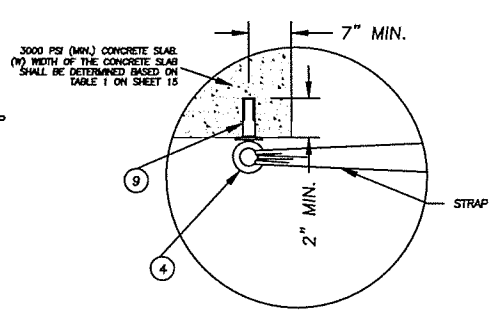
DETAIL "I"
SCREEN TO CONCRETE TOP [LOOP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY
ON OUTSIDE OF OPENING
(USE 2" MIN. EDGE DISTANCE)



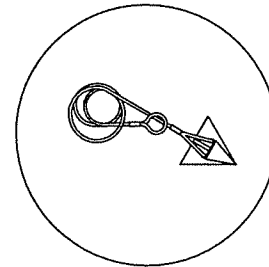
DETAIL "J"
SCREEN TO CONCRETE TOP [STRAP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY
(USE 2" MIN. EDGE DISTANCE)



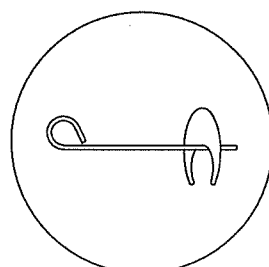
DETAIL "K"
SCREEN TO CONCRETE TOP [STRAP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY
ON INSIDE OF OPENING
(USE 2" MIN. EDGE DISTANCE)



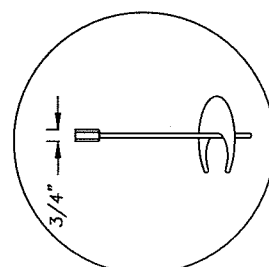
DETAIL "L"
SCREEN TO CONCRETE TOP [STRAP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY ON
OUTSIDE OF OPENING
(USE 2" MIN. EDGE DISTANCE)



DETAIL "M"
10" MALLEABLE IRON EARTH ANCHOR
3/8" GALVANIZED AIRCRAFT CABLE, 72" LONG.
BY AMERICAN EARTH ANCHORS OR EQUAL



DETAIL "N"
1/2" SCREW-IN EARTH ANCHOR
WITH 4" HELIX, 30" LONG.
BY MINUTE MAN PRODUCTS OR EQUAL



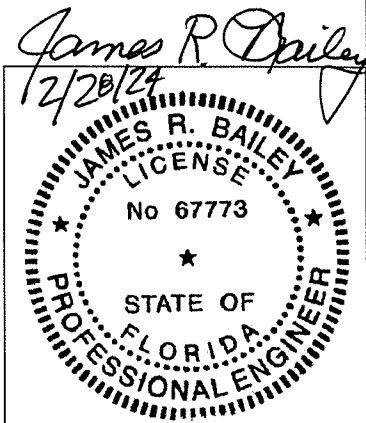
DETAIL "O"
1/2" SCREW-IN EARTH ANCHOR
WITH 4" HELIX, 30" LONG. (NUT ATTACHMENT)
BY MINUTE MAN PRODUCTS OR EQUAL

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.

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DETAIL	Rt (lbs)	Rs (lbs)	Ft (lbs)	Fs (lbs)
A	941	675	1768	1080
B	675	941	1768	1350
C	675	941	1768	1350
D	941	675	1768	1350
E	675	941	1768	1350
F	675	941	1768	1350
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
M	1223		2000	
N	1223		1250	
O	1223		1250	



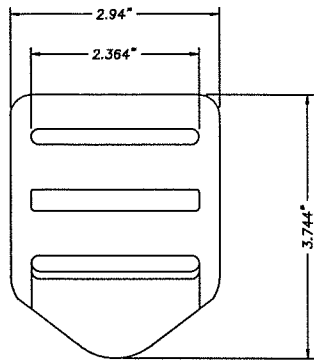
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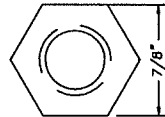
CLIENT: HENDEE ENTERPRISES
LOCATION: HOUSTON, TX
TITLE: FORCE 12 - SERIES 500 - STRAP & BUCKLE
DATE: 2/27/24
REVISION: 0

DESCRIPTION: FLORIDA BUILDING CODE 2023 8TH EDITION
DATE: 2/27/24
BY: JRB
CHECKED BY: OCR-KN
DRAWN BY: OCR-KN
FILE NAME: FORCE 12
JOB NUMBER: 148054
DOCUMENT DATE: 2/27/24
SHEET: D13

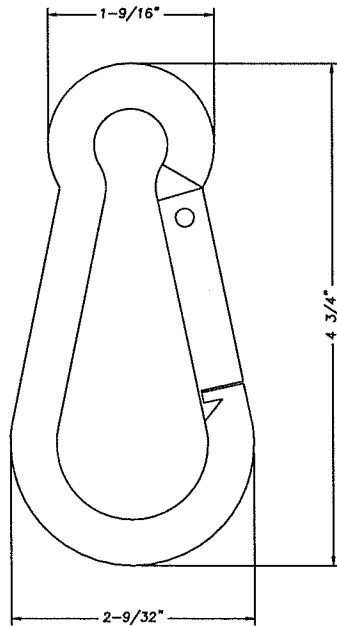
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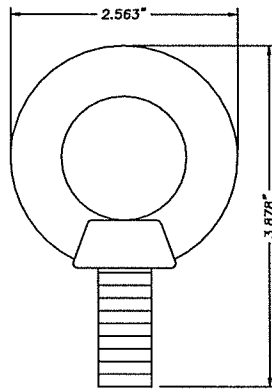
② .22" THK. ACETAL HOSTAFORM C
TIE DOWN LADDERLOC ACETAL HOSTAFORM C



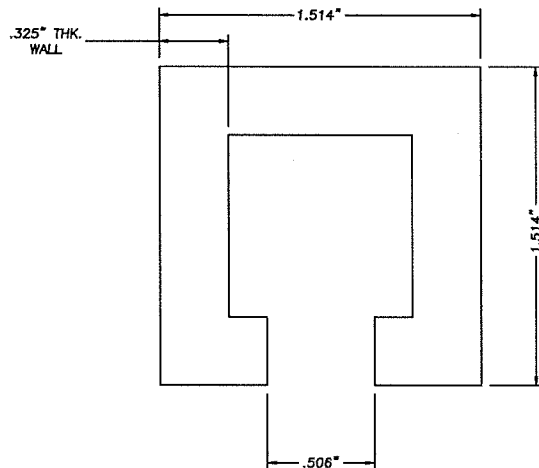
⑤ Ø1/2" HEX NUT
7/16" THK. STAINLESS STEEL



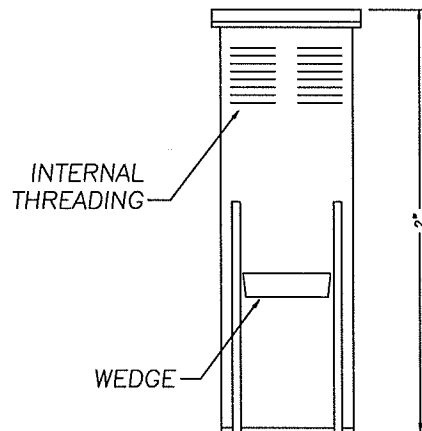
⑥ 3/4" SPRING SNAP
.434" THK. STAINLESS STEEL BAR



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

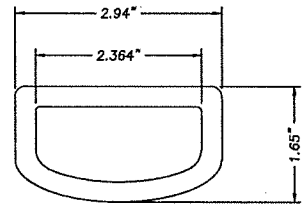


⑧ EXTRUDED ALUMINUM SCREEN TRACK
.325" THK. 6063-T6 ALUMINUM

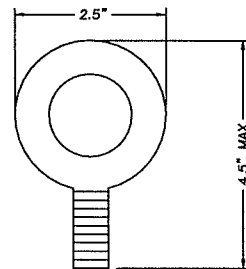


⑨ Ø1/2" DROP-IN ANCHOR
STAINLESS STEEL

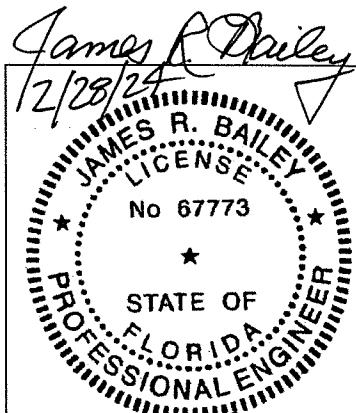
DESCRIPTION		
Item	DESCRIPTION	Material
1	HURRICANE SCREEN (SEE HURRICANE SCREEN CONSTRUCTION SHEET 1)	POLYPROP.
2	TIE DOWN LADDERLOC (ITW NEXUS, ACETAL HOSTAFORM C)	ACETAL
3	STRAP (SEE SHEET 8)	
4	1/2" EYEBOLT (CHICAGO#5, QUALITY MARINE HARDWARE, OR EQUAL)	S STEEL
5	1/2" HEX NUT 7/16"THK. STAINLESS STEEL.	S STEEL
6	3/4" SPRING SNAP (CAMMBELL #B765068, SUNCOR, OR EQUAL)	S STEEL
7	3/4" SPRING SNAP (CAMMBELL #B765068, SUNCOR, OR EQUAL) (NOT USED)	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" L.G. (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) (NOT USED)	STEEL



⑫ LADDERLOC LOOP
.161" THK. ACETAL HOSTAFORM C



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



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LOCATION: HOUSTON, TX
TITLE: FORCE 12 - SERIES 500 - STRAP & BUCKLE
DATE: 2/27/24
REVISION: 0

REV	DATE	DESCRIPTION
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FILE NAME: FORCE 12
JOB NUMBER: 148054
DOCUMENT DATE: 2/27/24

SHEET:
D14

CONCRETE SLAB/FOUNDATION DIMENSIONS

TABLE 1		CONCRETE SLAB CONNECTION DIMENSIONS								
		SLAB WIDTH IN FT.								
WIND PRESSURE (psf)	SLAB THICKNESS (in)	SCREEN HEIGHT (ft)								
		12			10			8		
		CASE 1	CASE 2	CASE 3	CASE 1	CASE 2	CASE 3	CASE 1	CASE 2	CASE 3
60 ANCHORS 22 1/2" O.C.	4	36.6	43.6	28.8	31.2	37.6	24.2	25.8	31.5	19.6
	5	29.2	34.9	23.0	25.0	30.1	19.3	20.6	25.2	15.7
	6	24.4	29.1	19.2	20.8	25.1	16.1	17.2	21.0	13.0
	7	20.9	24.9	16.4	19.7	21.5	13.8	14.7	18.0	11.2
	8	18.3	21.8	14.4	15.6	16.1	12.1	12.9	15.8	9.8
55 ANCHORS 24" O.C.	4	33.9	40.7	26.5	29.0	35.1	22.3	24.0	29.4	18.0
	5	27.1	32.5	21.2	23.2	28.0	17.8	19.2	23.5	14.4
	6	22.6	27.1	17.6	19.3	23.4	14.8	16.0	19.6	12.0
	7	19.4	23.2	15.1	16.6	20.0	12.7	13.7	16.8	10.3
	8	17.0	20.3	13.2	14.5	17.5	11.1	12.0	14.7	9.0
50 ANCHORS 24" O.C.	4	31.2	37.7	24.1	26.7	32.5	20.3	22.1	27.3	16.4
	5	25.0	30.2	19.3	21.4	26.0	16.2	17.7	21.8	13.1
	6	20.8	25.1	16.1	17.8	21.7	13.6	14.7	18.2	11.0
	7	17.9	21.5	13.8	15.3	18.6	11.6	12.6	15.6	9.4
	8	15.6	18.8	12.1	13.4	16.2	10.2	11.1	13.6	8.2
40 ANCHORS 24" O.C.	4	35.8	31.6	19.5	27.1	27.3	16.4	18.3	22.9	13.3
	5	20.6	25.3	15.6	17.6	21.8	13.1	14.6	18.3	10.6
	6	17.2	21.1	13.0	14.7	18.2	10.9	12.2	15.3	8.8
	7	14.7	18.1	11.1	12.6	15.6	9.4	10.5	13.1	7.6
	8	12.9	15.8	9.7	11.1	13.7	8.2	9.2	11.5	6.6

TABLE 1 NOTES:

1. WIDTH IS MEASURED PERPENDICULAR TO SCREEN.
2. THE BUILDING FOUNDATION IS ASSUMED TO PROVIDE SUFFICIENT LATERAL SUPPORT TO PREVENT SLIDING TOWARDS THE BUILDING. IF THE SLAB DOES NOT PROVIDE LATERAL STABILITY, ASSUME CASE 2 FOR ALL INSTALLATIONS.
3. CASE 1 - VERTICAL INSTALLATION
CASE 2 - VERTICAL INSTALLATION PITCHED OUTWARD.
CASE 3 - VERTICAL INSTALLATION INWARD.
4. IF SUFFICIENT LATERAL SUPPORT IS PRESENT TO RESTRAIN MOVEMENT OF THE SLAB AWAY FROM THE EXTERIOR WALL (SEE SHEET 2 AND 4), THEN THE REQUIRED SLAB WIDTH IN TABLE 1 MAY BE MULTIPLIED BY A FACTOR OF 0.55 REDUCTION

FASTENER NOTES:

FASTENERS AT SILL:

1. FASTENERS ARE LOCATED PER STRAP LOCATIONS, 24" O.C. FOR WIND PRESSURES <55 PSF,
AND 22 1/2" O.C. FOR PRESSURES FROM 55 TO 60 PSF.
2. FASTENER TYPES:
CONCRETE — POWERS 1/2" DIA. DROP-IN ANCHOR.
(2" MIN. EMBEDMENT) OR EQUAL.

FASTENERS AT HEAD/JAMB

1. STRAPS ARE ATTACHED TO EYE BOLTS, WHICH ARE INSTALLED IN THE C-TRACK 24" O.C. FOR WIND PRESSURES <55 PSF, AND 22 1/2" FOR PRESSURES 55 TO 60 PSF.
2. C-CHANNEL IS ANCHORED TO STRUCTURE AT HEAD FOR VERTICAL INSTALLATIONS AND AT BOTH JAMBS FOR HORIZONTAL INSTALLATIONS.
3. FASTENER TYPES:
 - A. 1/4" DIA. ELCO TAPCON INTO 3000 PSI CONCRETE WITH 1 3/4" MIN. EMBEDMENT AND 2" MIN. EDGE DISTANCE.
 - B. 1/4" DIA. ELCO TAPCON INTO 3200 PSI CONCRETE WITH 1 3/4" MIN. EMBEDMENT AND 2" MIN. EDGE DISTANCE.
 - C. 1/4" DIA ELCO TAPCON INTO HOLLOW CMU BLOCK WITH 1 1/4" MIN. EMBEDMENT AND 2" MIN. EDGE DISTANCE.
 - D. #14 WOOD SCREW INTO WOOD WITH 1 1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE
4. FASTENERS ARE INSTALLED 1" FROM END OF TRACK AND SPACED PER TABLE 2 BELOW.

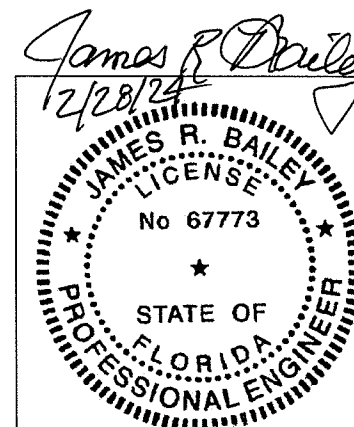
TABLE 2	FASTENER SPACING (in)
---------	-----------------------

SCREEN HEIGHT (ft)	FASTENER TYPE	WIND PRESSURE (psf)			
		60	55	50	40
12	A	6	6	7	9
	B	6	6	7	9
	C	4	4	4	6
	D	6	6	7	9
10	A	7	7	8	10
	B	7	7	8	10
	C	4	4	5	7
	D	7	7	8	10
8	A	9	9	10	12
	B	9	9	10	12
	C	6	6	7	10
	D	9	9	10	12

SCREEN OFFSET
AT BASE

TABLE 3

HEIGHT	OFFSET DISTANCE (in)
6'-0"	1'-10"
8'-0"	2'-8"
10'-0"	3'-10"
12'-0"	4'-10"



HE

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