



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

NOTICE OF ACCEPTANCE (NOA)

Groff Aluminum Florida Corporation
13125 N.W. 47th Avenue
OPA-LOCKA, Florida 33054

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: Aluminum Framed Screen Room / Canopy

APPROVAL DOCUMENT: Drawing titled "Screen Room / Canopy", prepared by Tilteco, Inc., sheets 1 through 5 of 5, dated March 20, 2012, last revision #1 dated March 20, 2012, signed and sealed by Walter A. Tillit Jr., P.E. on April 19, 2012, 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: None

LABELING: A permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", shall be attached to the bottom of each chair rail.

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 # 12-0917.01 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
10/23/2014

NOA No. 14-0910.01
Expiration Date: 01/31/2018
Approval Date: 10/23/2014

Groff Aluminum Florida Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVA #97-1212.03

A. DRAWINGS:

Drawing Number Sheet Number	Drawing Date Latest Revision Date	Signed and Sealed By Date
94-185 Sheet 1 of 3	July 15, 1994 Revised: March 6, 1995	Walter A. Tillit, Jr., P.E. April 4, 1995
94-185 Sheet 2 of 3	July 15, 1994 Revised: March 3, 1995	Walter A. Tillit, Jr., P.E. April 4, 1995
94-185 Sheet 3 of 3	July 15, 1994 Revised: April 4, 1995	Walter A. Tillit, Jr., P.E. April 4, 1995

B. TESTS

Test Laboratory	Miami Testing Laboratory
Test Number	16244
Type	Aluminum Panel
Test Signature	Ernest E. Mitchell, P.E.
Test Date(s)	September 22, 1994

C. CALCULATIONS

Signature	Date
Walter A. Tillit, Jr., P.E.	September 1, 1994
Walter A. Tillit, Jr., P.E.	Revised April 4, 1995

D. MATERIAL CERTIFICATIONS:

Test Laboratory	Center For Applied Engineering, Inc.
Test Number	25-7110A
Type	Aluminum Tensile
Test Signature	R. Gerry Miller, P.E.
Test Date(s)	October 26, 1994

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 01-0228.06

A. DRAWINGS:

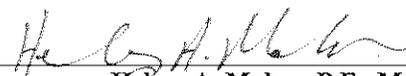
1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0910.01
Expiration Date: 01/31/2018
Approval Date: 10/23/2014

Groff Aluminum Florida Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. MATERIAL CERTIFICATIONS:

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-0112.01

A. DRAWINGS

1. *Drawing titled "Screen Room / Canopy", prepared by Tilteco, Inc., sheets 1 through 5 of 5, dated February 15, 2006, last revision #1 dated February 15, 2006, signed and sealed by Walter A. Tillit Jr., P.E. on March 09, 2006.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Revision of Miami-Dade County Product Approval for Screen Room/Canopy, sheets 1 through 45 of 45, dated February 15, 2006, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0917.01

A. DRAWINGS

1. *Drawing titled "Screen Room / Canopy", prepared by Tilteco, Inc., sheets 1 through 5 of 5, dated March 20, 2012, last revision #1 dated March 20, 2012, signed and sealed by Walter A. Tillit Jr., P.E. on April 19, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

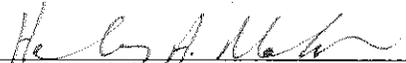
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. OTHERS

1. *Formal letter from Re-col Aluminum Products, dated February 28, 2012, signed by Antonio Requejo, allowing Groff Aluminum Florida Corporation to assume their NOA # 06-0112.01.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0910.01
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

F. OTHERS

1. *Manufacturer submitted the Quality Assurance Manual.*



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

Product Control Unit Supervisor

NOA No. 14-0910.01

Expiration Date: 01/31/2018

Approval Date: 10/23/2014

GENERAL NOTES:

1. SCREEN ROOM/CANOPY SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2010 EDITION OF THE FLORIDA BUILDING CODE. DESIGN WIND LOADS HAVE BEEN DETERMINED AS PER SECTIONS 1620 AND 1622 OF THE ABOVE MENTIONED CODE.
IN ORDER TO VERIFY THAT ANCHORS AND ALUMINUM FRAME ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE LOADS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS.
SCREEN ROOM/CANOPY ADEQUACY FOR WIND RESISTANCE AT SCREEN WALLS WIRE CABLE AND AT ROOF PANEL HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1715 AND HIGH VELOCITY HURRICANE ZONE PROTOCOL TAS 202 RESPECTIVELY, OF THE ABOVE MENTIONED CODE AS PER MTL LAB REPORT # MTL-16244 (ROOF PANELS) AND CTC LAB REPORT # 94-011 (WIRE CABLE) AND AS PER STRUCTURAL CALCULATIONS PERFORMED AS PER SECTIONS 1615 AND 2003 OF THE FLORIDA BUILDING CODE.
 2. SCREEN FABRIC OPENINGS SHALL BE 60% OR GREATER.
 3. THIS STRUCTURE SHALL ONLY BE CONSTRUCTED ATTACHED TO A CONCRETE BLOCK STRUCTURE WITH MEAN ROOF HEIGHT EQUAL OR LESS THAN 20'-0". NOTIFY THIS ENGINEER IF THE ABOVE CONDITION IS NOT COMPLIED WITH. THIS STRUCTURE SHALL BE INSTALLED LESS THAN 15'-0" HIGH ABOVE GROUND LEVEL.
 4. ALUMINUM THICKNESS SHALL BE AS INDICATED ON THIS DRAWING.
 5. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 UNLESS OTHERWISE NOTED.
 6. ALUMINUM ROOF PANEL ALLOYS SHALL BE 3105-H154. SCREWS USED FOR ATTACHMENT OF ROOF PANELS TO SUPPORTING STRUCTURE SHALL BE SEALED WITH AN APPROVED SEALANT THROUGHOUT.
 7. ALL BOLTS TO BE AISI 304 SERIES STAINLESS STEEL, OR ASTM A-307 DESIGNATION GALVANIZED STEEL.
 8. ALL SCREWS SHALL BE AISI 304 SERIES STAINLESS STEEL OR CORROSION RESISTANT CARBON STEEL AS PER DIN 50018 & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
 9. ANCHORS TO CONCRETE SHALL BE:
 - ELCO CONSTRUCTION PRODUCTS TAPCON ANCHORS FOR ROOF HEADER AND 1x2 PATIO PROFILES CONNECTION TO CONCRETE.
MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO CONCRETE SHALL BE 1 3/4".
 - HILTI KWIK BOLT 3 ANCHORS FOR COLUMN + CABLE CONNECTION TO CONCRETE.
MINIMUM EMBEDMENT OF HILTI KWIK BOLT 3 ANCHORS INTO CONCRETE SHALL BE AS INDICATED ON DRAWING.
- EMBEDMENT LENGTHS NOTED ON DRAWING SHALL NOT INCLUDE STUCCO OR ANY FINISH MATERIAL.
10. DOOR LATCHES AT SCREEN ROOM/CANOPY BUILT ADJACENT TO SWIMMING POOLS SHALL BE LOCATED AT 5'-6" ABOVE THE FLOOR AND SHALL BE SELF CLOSING.
 11. ELECTRICAL SERVICE DROP CONDUCTORS OR ANY OTHER OVERHEAD WIRING SHALL NOT BE INSTALLED OVER ANY PART OF THIS STRUCTURE.
 12. ANY METALLIC ENCLOSURE WITHIN 5'-0" OF THE INTERIOR WALL OF A SWIMMING POOL SHALL BE ELECTRICALLY BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
 13. CABLES SHALL BE STAINLESS STEEL AND SHALL HAVE A MINIMUM TENSILE CAPACITY OF 2200 Lbs.

14. MINIMUM SOIL BEARING PRESSURE SHALL BE 2000 P.S.F.
15. CONCRETE TO DEVELOP A MINIMUM COMPRESSION STRENGTH OF 3000 psi AFTER 28 DAYS. CONCRETE MIXTURE AND PLACEMENT TO COMPLY WITH THE PROVISIONS OF THE ACI 318-08.
16. REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60, WELDED WIRE MESH SHALL COMPLY WITH ASTM A-185.
17. ALUMINUM MEMBERS IN CONTACT WITH DISSIMILAR MATERIAL SHALL COMPLY WITH SECTION 2003.8.4 OF FLORIDA BUILDING CODE.
18. SEAL AND CAULK EVERY FASTENER USED TO CONNECT ROOF PANELS TO SUPPORTING FRAME AND AT JOINTS BETWEEN ROOF PANELS AND HEADERS TO EXISTING STRUCTURE.
19. (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I. E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.A.D. PROVIDED. HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

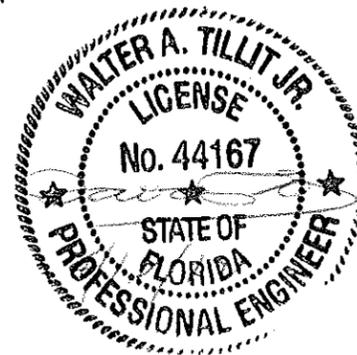
(c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
20. ROOF PANEL MANUFACTURER'S LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE PANEL APPROXIMATELY 4" FROM THE EDGE OF SUCH PANEL. LABEL SHALL BE AS FOLLOW:
GROFF ALUMINUM FLORIDA CORPORATION.
OPALOCKA, FLORIDA
MIAMI-DADE COUNTY PRODUCT APPROVED.

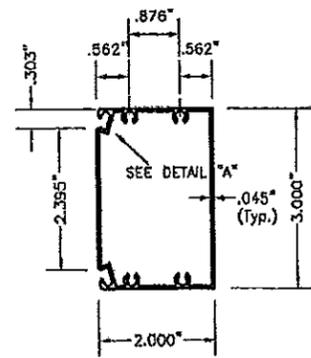
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0912.01
Expiration Date 01/31/2018
By *Walter A. Tillit Jr.*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0917.01
Expiration Date 01/31/2018
By *Walter A. Tillit Jr.*
Miami Dade Product Control

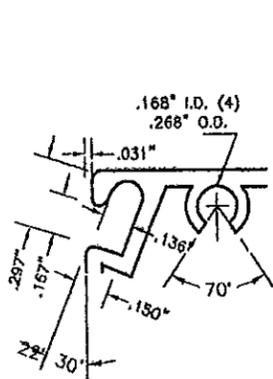


FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

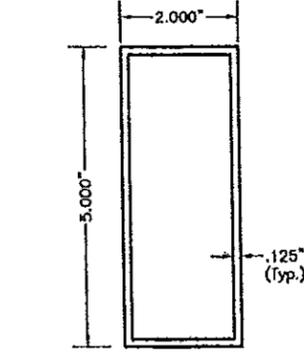
<p>TILECO Inc. TILLIT TESTING & ENGINEERING COMPANY 8355 N.W. 36th St., Ste. 305, VIRONA GARDENS, FLORIDA 33166 Phone: (305) 871-1830, Fax: (305) 871-1831 e-mail: tillit@tillit.com EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</p>	<p>SCREEN ROOM/CANOPY GROFF ALUMINUM FLORIDA CORPORATION 13125 NW 47 AVE OPALOCKA, FL. 33054 PH: (305) 687-4195, FAX: (305) 681-6613</p>		<p>DRAWN BY: L.G./A.G.</p>																	
	<table border="1"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 05-025</td> <td>03/20/12</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>		REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 05-025	03/20/12	3			2			4		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	OLD 05-025	03/20/12	3																	
2			4																	
			<p>SHEET 1 OF 5</p>																	



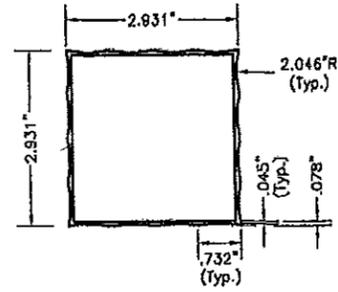
① 2" x 3" PATIO SECTION
SCALE: 3/4" = 1"



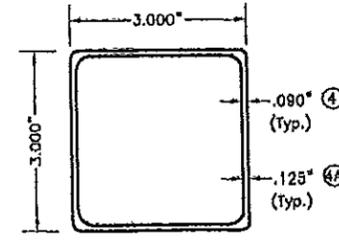
DETAIL "A"



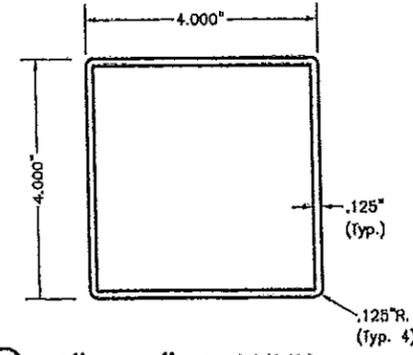
② 2" x 5" BEAM
SCALE: 3/4" = 1"



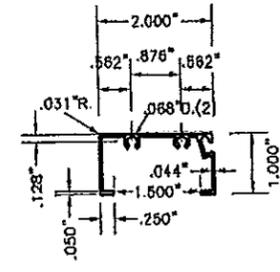
③ 2.931" x 2.931" COLUMN
SCALE: 3/4" = 1"



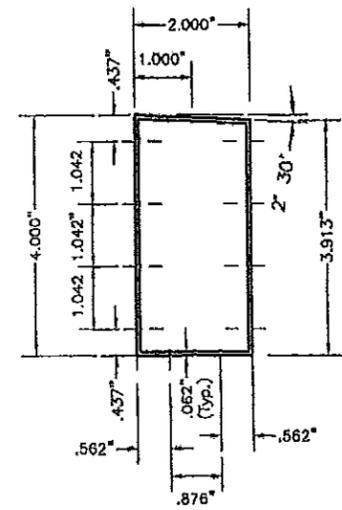
④, ④A 3" x 3" COLUMN
SCALE: 3/4" = 1"



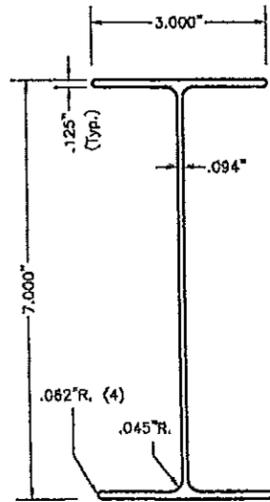
⑤ 4" x 4" COLUMN
SCALE: 3/4" = 1"



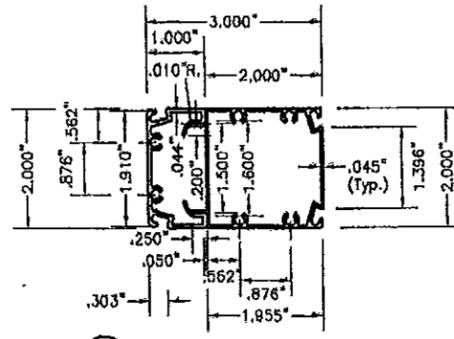
⑥ 1" x 2"
SCALE: 3/4" = 1"



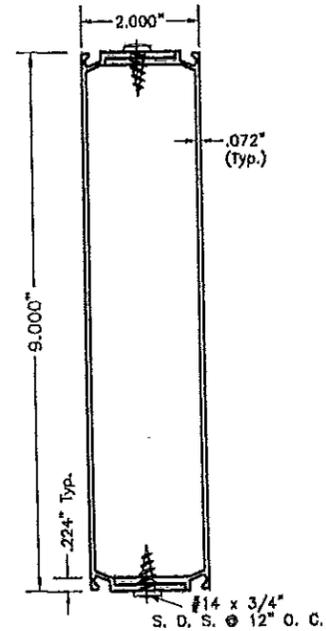
⑦ 2" x 4" HOLLOW BEAM
SCALE: 3/4" = 1"



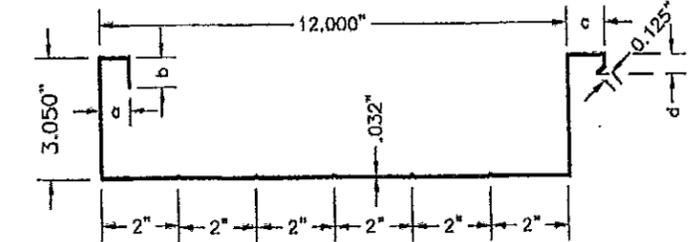
⑧ 1" BEAM
SCALE: 3/4" = 1"



⑨ CORNER COLUMN
SCALE: 3/4" = 1"



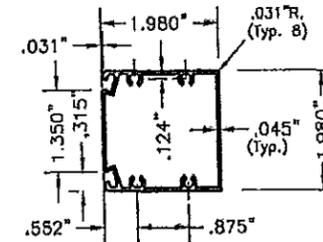
⑩ 2" x 9" LAP BEAM
SCALE: 3/4" = 1"



⑪ ALUMINUM ROOF PANEL SECTION
SCALE: 1/2" = 1"

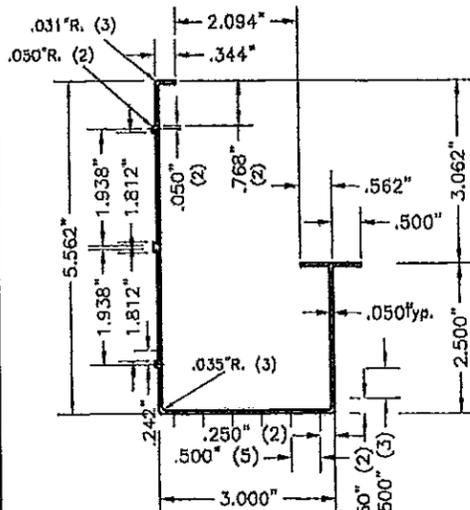
a	b	c	c
.675"	.350"	.890"	.602"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0910.01
Expiration Date 01/31/2018
By *Walter A. Tillit Jr.*
Miami Dade Product Control

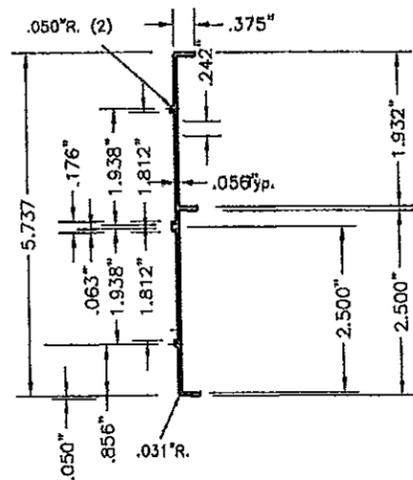


⑫ 1.980" x 1.980"
SCALE: 3/4" = 1"

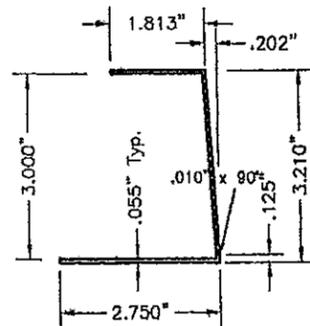
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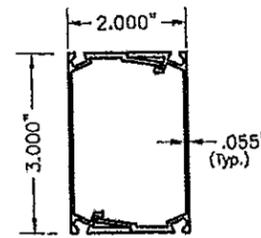
⑬ STOCK GUTTER
6063-T5 ALUMINUM ALLOY
SCALE: 3/4" = 1"



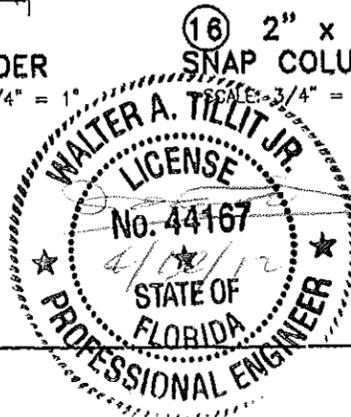
⑭ VALANCE
6063-T5 ALUMINUM ALLOY
SCALE: 3/4" = 1"



⑮ HEADER
SCALE: 3/4" = 1"

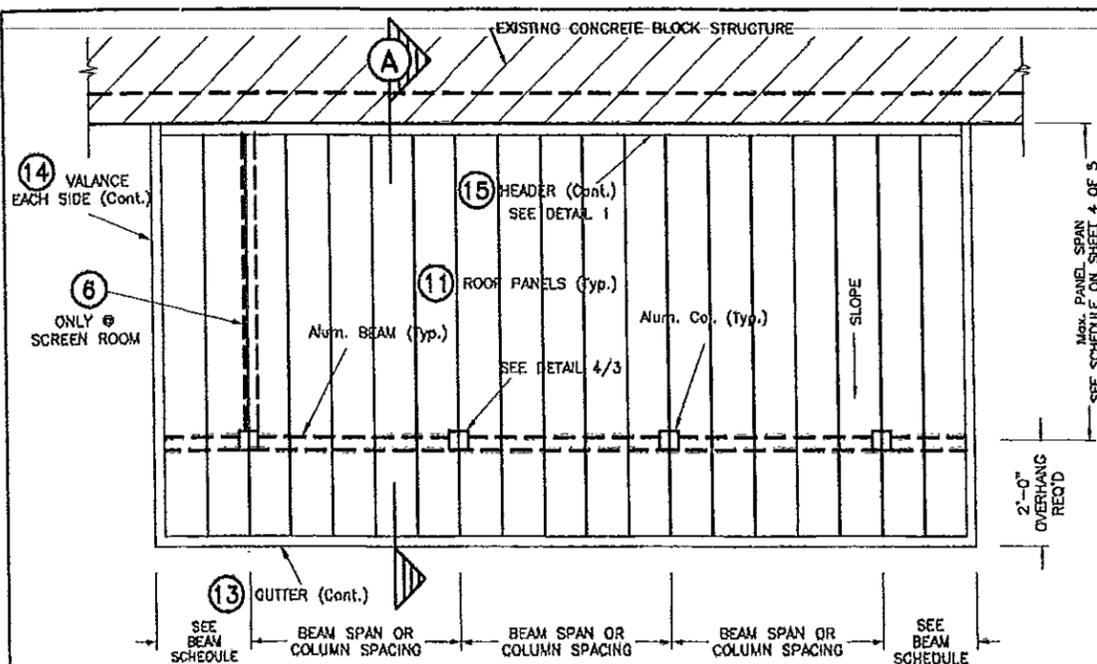


⑯ 2" x 3" SNAP COLUMN
SCALE: 3/4" = 1"



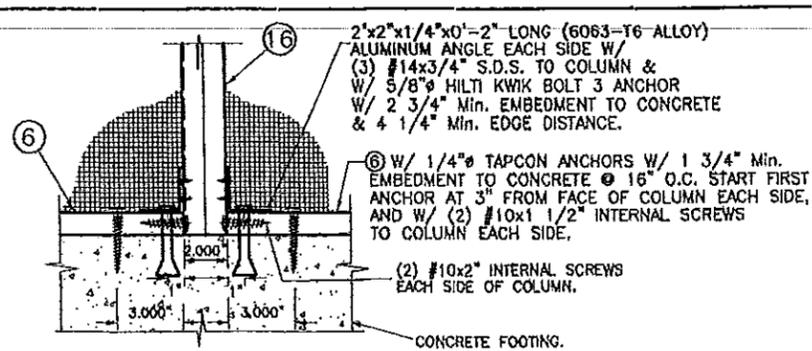
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

<p>TILLIT TESTING & ENGINEERING COMPANY 8355 N.W. 36th St., Ste. 303, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305) 871-1530, Fax: (305) 871-1531 e-mail: tilitec@tilitec.com EB-0006719 WALTER A. TILLIT JR., P. E. FLORIDA Lic. # 44167</p>	<p>SCREEN ROOM/CANOPY GROFF ALUMINUM FLORIDA CORPORATION 13125 NW 47 AVE OPALOCKA, FL. 33054 PH: (305) 687-4193, FAX: (305) 681-6613</p>		<p>DRAWN BY: L.G./A.G.</p>																	
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	OLD 06-025	03/20/12	3																	
2			4																	
			<p>SHEET 2 OF 5</p>																	

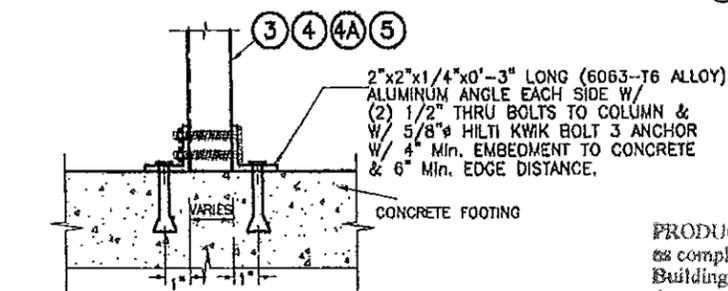


ROOF PLAN-MONOSLOPE ROOF (SCREEN ROOM)
N. T. S.

NOTE: SEE BEAM & COLUMN SCHEDULE ON SHEET 4 OF 5.

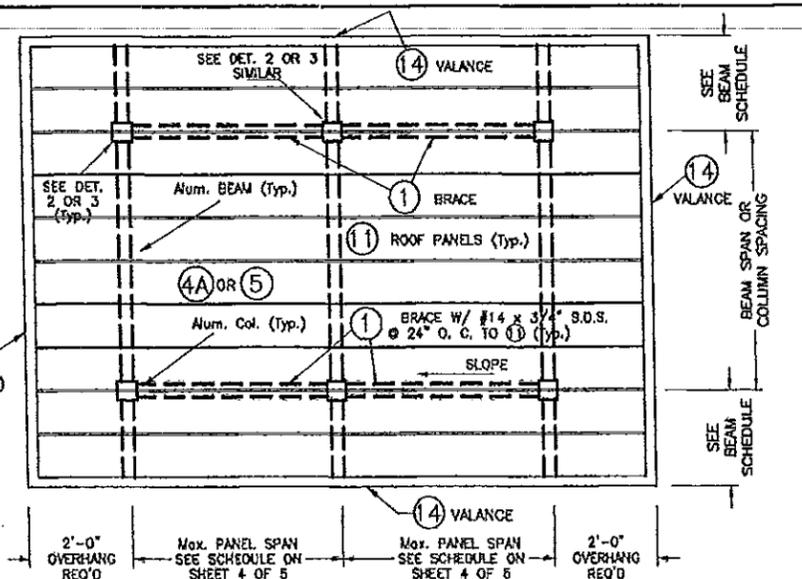


CASE 1



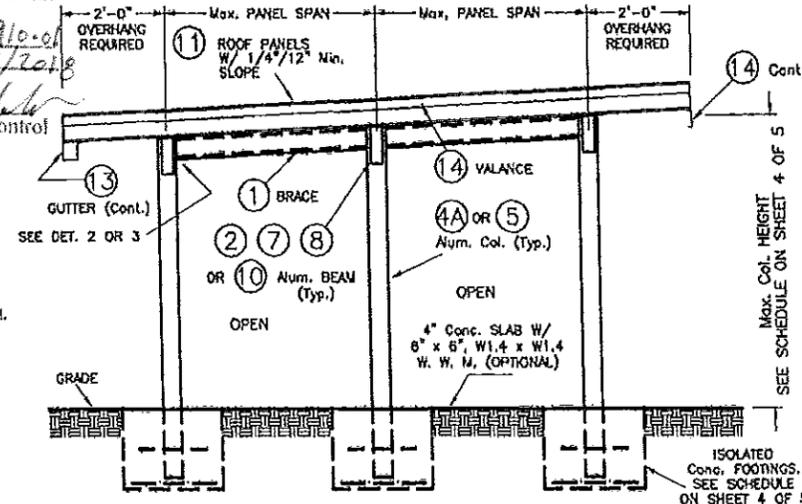
CASE 2

COLUMN CONNECTION TO FOOTING
N. T. S.



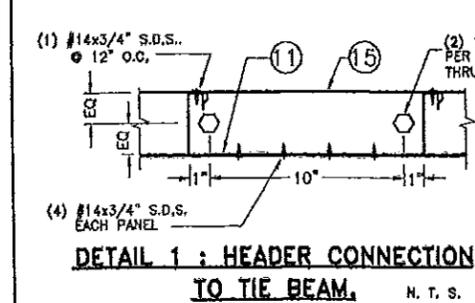
ROOF PLAN-MONOSLOPE ROOF (FREESTANDING CANOPY)
N. T. S.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0910.01
Expiration Date 01/31/2018
By *Healy A. Miller*
Miami Dade Product Control

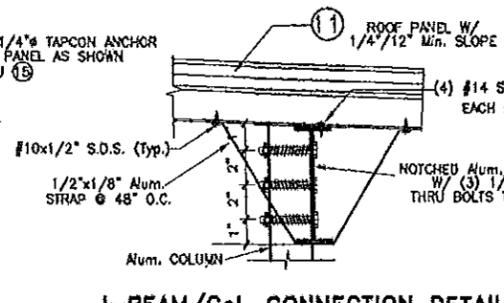


ELEVATION-MONOSLOPE ROOF (FREESTANDING CANOPY)
N. T. S.

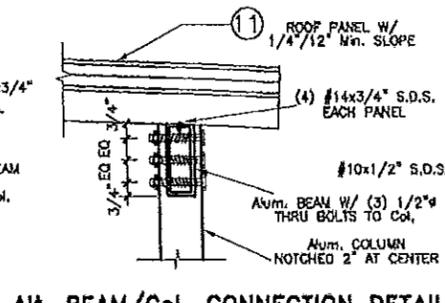
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0917.01
Expiration Date 01/31/2018
By *Healy A. Miller*
Miami Dade Product Control



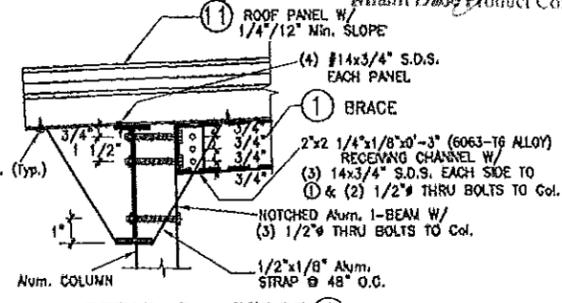
DETAIL 1: HEADER CONNECTION TO TIE BEAM.
N. T. S.



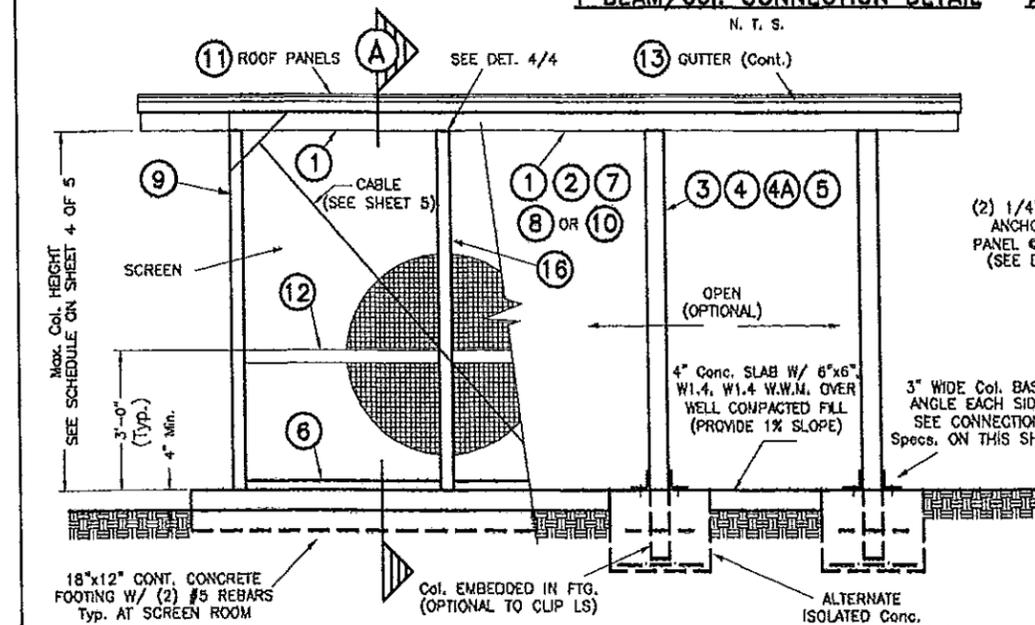
I-BEAM/Col. CONNECTION DETAIL
N. T. S.



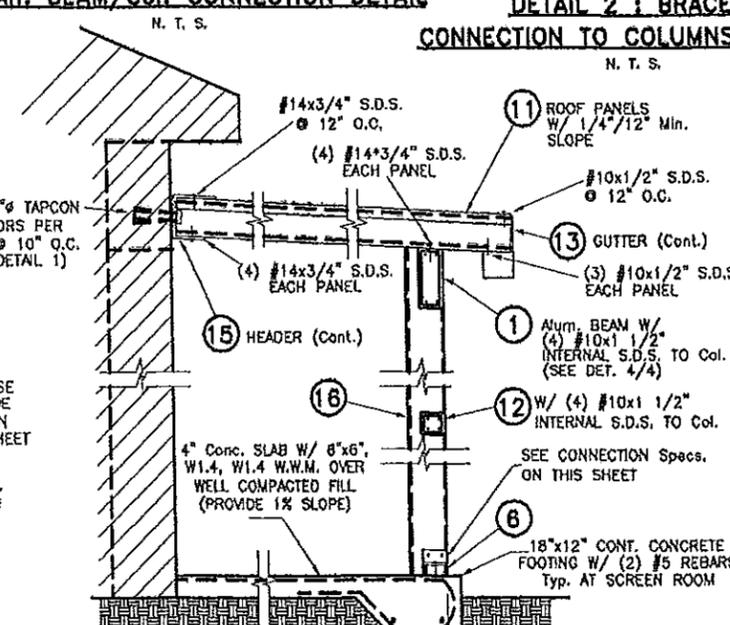
Alt. BEAM/Col. CONNECTION DETAIL
N. T. S.



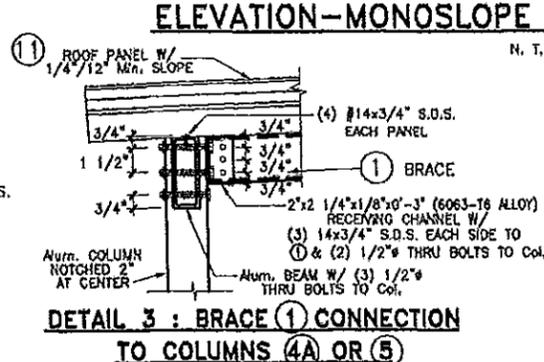
DETAIL 2: BRACE CONNECTION TO COLUMNS (4A) OR (5)
N. T. S.



ELEVATION-MONOSLOPE ROOF (SCREEN ROOM)
N. T. S.



SECTION A
N. T. S.



DETAIL 3: BRACE CONNECTION TO COLUMNS (4A) OR (5)
N. T. S.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

TILECO inc.
TILLIT TESTING & ENGINEERING COMPANY
9355 N.W. 35th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33168
Phone: (305) 871-1530 Fax: (305) 871-1531
e-mail: Tileco@aol.com
EB-0008719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

SCREEN ROOM/CANOPY
GROFF ALUMINUM FLORIDA CORPORATION
13125 NW 47 AVE
OPALOCKA, FL. 33054
PH: (305) 687-4195, FAX: (305) 681-6613

DRAWN BY:
L.G./A.C.
03/20/12
DATE
12-089
DRAWING No
SHEET 3 OF 5

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 06-025	03/20/12	3		
2			4		

BEAM SCHEDULE MAXIMUM SPAN FOR A GIVEN TRIBUTARY WIDTH *

BEAM TYPE	TRIBUTARY WIDTH *						MAXIMUM BEAM OVERHANG
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	
①	3'-7"	3'-3"	3'-0"	2'-9"	-	-	1'-1"
②	8'-10"	7'-11"	7'-3"	6'-8"	6'-4"	5'-11"	2'-3"
⑦	5'-6"	4'-10"	4'-6"	4'-1"	-	-	1'-6"
⑧	9'-9"	8'-9"	8'-0"	7'-4"	6'-10"	6'-6"	3'-0"
⑩ **	13'-7"	12'-2"	11'-1"	10'-3"	9'-7"	9'-7"	3'-9"

* TRIBUTARY WIDTH: - ROOF SPAN (FROM WALL TO FRONT BEAM)/2 + OVERHANG FOR ROOFS ATTACHED TO BUILDING.
 - ROOF SPAN (FROM BEAM TO BEAM) FOR FREE STANDING CANOPIES OR FOR ROOFS ATTACHED TO BUILDING WITH MULTIPLE BAYS.

** ⑩ 2" x 9" BEAM SHALL ONLY BE USED JOINTLY WITH COLUMNS ④, ④A OR ⑤.

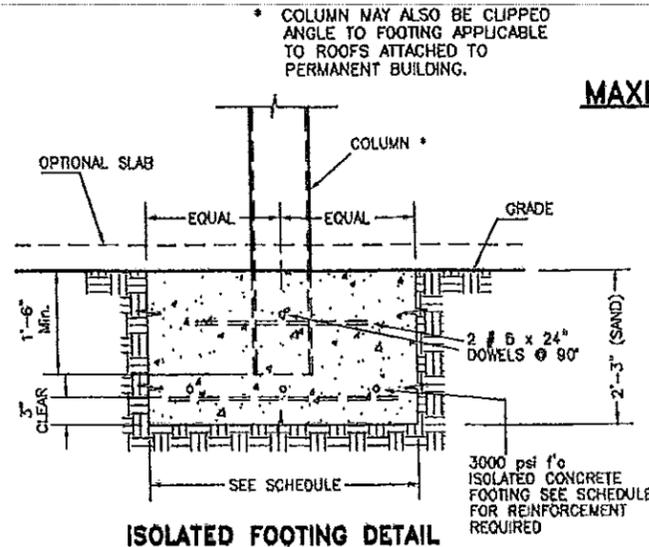
COLUMN SCHEDULE

MAXIMUM COLUMN SPACING (Ft.) * FOR A GIVEN HEIGHT.

TYPE OF COLUMN AND TYPE OF STRUCTURE WHERE COLUMN IS LOCATED

COLUMN TYPE	ROOF ATTACHED TO PERMANENT BUILDING: SCREEN ROOM							FREESTANDING ROOFS: CANOPY		
	WITH SCREEN WALLS			W/O SCREEN WALLS				CENTER Col. END Col. **		
	7'-0"	7'-6"	8'-0"	8'-0"	9'-0"	10'-0"	12'-0"	7'-6"	8'-0"	10'-0"
⑬	4'-10"	4'-4"	3'-7"	11'-1"	8'-9"	7'-2"	-	-	-	-
③	-	-	-	13'-7"	13'-7"	12'-8"	8'-10"	-	-	-
④	-	-	-	***	***	***	***	-	-	-
④A	-	-	-	***	***	***	***	11'-7"	9'-10"	6'-4"
⑤	-	-	-	***	***	***	***	13'-7"	13'-7"	8'-9"
				***	***	***	***	***	***	13'-7"

* Max. COLUMN SPACING SHALL NOT EXCEED Max. BEAM SPAN AS PER BEAM SCHEDULE FOR A GIVEN BEAM TYPE.
 ** CENTER COLUMN: COLUMN THAT RECEIVE REACTIONS FROM BEAMS THAT ARE LOADED WITH ROOF PANELS FROM EITHER SIDE.
 END COLUMN: COLUMN THAT RECEIVE REACTIONS FROM BEAMS THAT ARE LOADED WITH ROOF PANELS FROM ONE SIDE PLUS A 2'-0" Max. OVERHANG (IF APPLICABLE) FROM THE OTHER SIDE.
 *** LIMITED BY BEAM SPAN AS PER BEAM SCHEDULE.



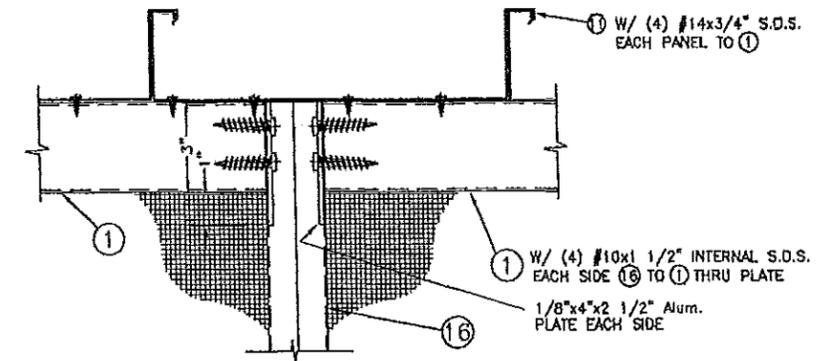
Max. ROOF PANEL SPAN SCHEDULE

SPAN CONDITION	Max. SPAN "L"
	5'-0"

MAXIMUM SPAN TABLE FOR A GIVEN TRIBUTARY ROOF AREA

ROOF AREA BEARING OR COLUMN (Ft.²)*	REQUIRED FOOTING SIZE IN SAND	REINFORCING STEEL EQUALLY SPACED EACH WAY, SAND
120	4'-11" x 4'-11"	(5) # 4 REBARS
90	4'-3" x 4'-3"	(4) # 4 REBARS
60	3'-5" x 3'-5"	(4) # 4 REBARS
40	2'-10" x 2'-10"	(3) # 4 REBARS
25	2'-2" x 2'-2"	(3) # 4 REBARS

* ROOF PANEL SPAN x BEAM SPAN (INTERIOR COLUMNS) OR (ROOF PANEL SPAN/2 + 0. H.) x BEAM SPAN (END COLUMNS)

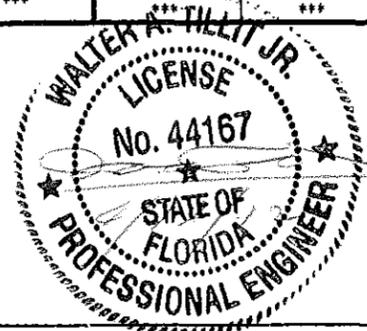


DETAIL 4 : ① CONNECTION TO ⑬

N. T. S.

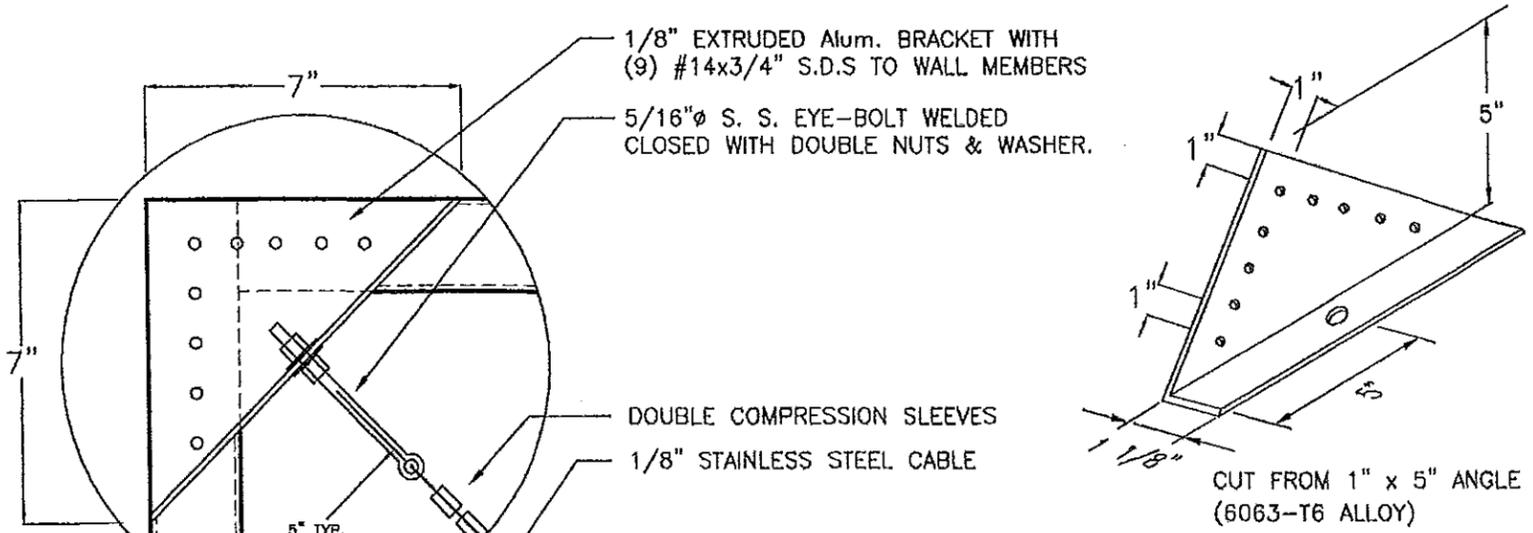
PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0910.01 Expiration Date 01/31/2018
 By *Walter A. Tillit Jr.*
 Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0917.01 Expiration Date 01/31/2018
 By *Walter A. Tillit Jr.*
 Miami Dade Product Control



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

 TILIT TESTING & ENGINEERING COMPANY 5353 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305) 971-1630 Fax: (305) 971-1631 e-mail: tileco@tillit.com EB-0008719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	SCREEN ROOM/CANOPY GROFF ALUMINUM FLORIDA CORPORATION 13125 NW 47 AVE OPALOCKA, FL. 33054 PH: (305) 687-4195, FAX: (305) 681-6613	DRAWN BY: L.G./A.G. DATE: 03/20/12 DRAWING No: 12-089 SHEET 4 OF 5																	
	<table border="1"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 06-025</td> <td>03/20/12</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 06-025	03/20/12	3			2			4		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE														
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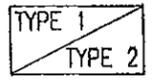
ANGLE BRACKET DETAIL

CABLE SCHEDULE **

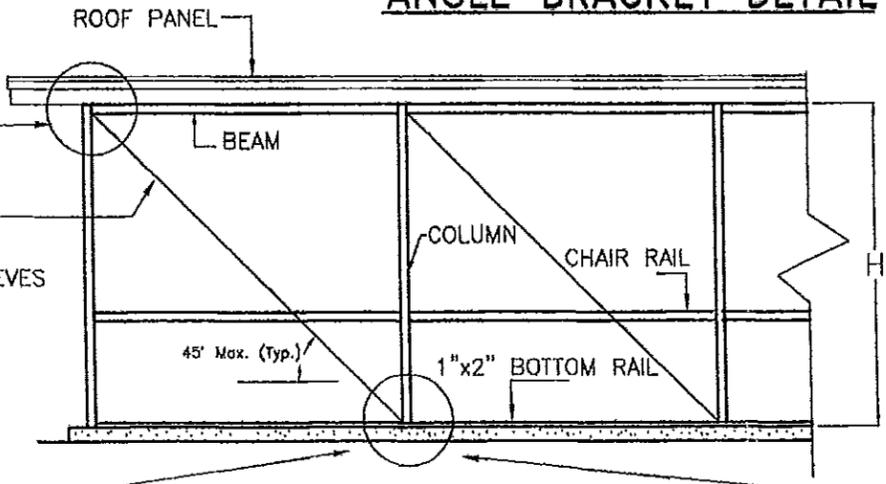
TOTAL N° OF CABLES REQUIRED AT FRONT WALL
DISTRIBUTED 50% EA. END

H	L	0'-5'	5'-10'	10'-20'
0'-8'	2	2	4	6

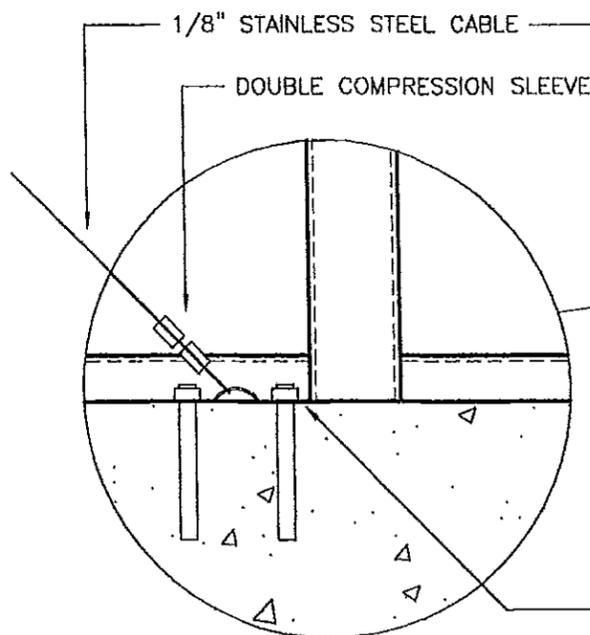
CLIP LEGEND



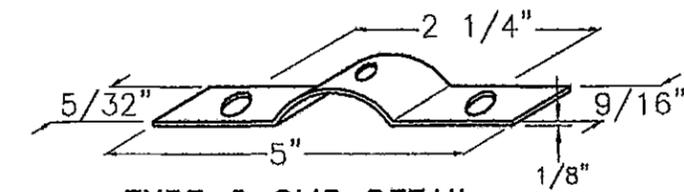
H = FRONT WALL HEIGHT (FT)
L = SIDE WALL PROJECTION FROM EXISTING WALL TO FRONT WALL (FT)



TYPICAL ELEVATION



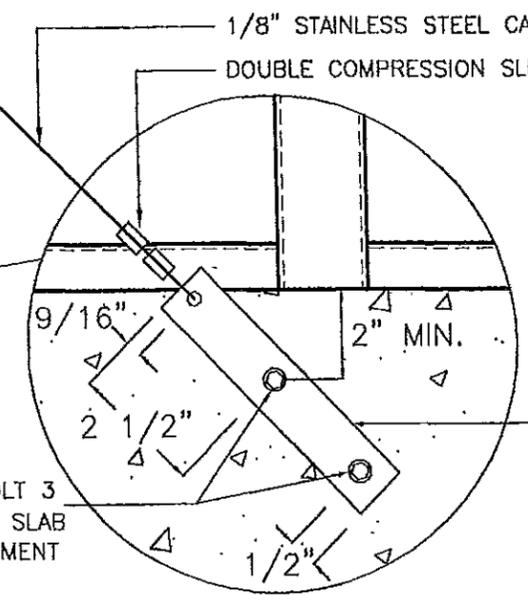
**TYPE 2 CLIP DETAIL
ALTERNATE TO CLIP TYPE 1**



TYPE 2 CLIP DETAIL

3" A.S.T.M. A-36 GALVANIZED STEEL CLIP WITH
(2) 3/8" HILTI KWIK BOLT 3 ANCHORS TO
CONCRETE SLAB. MAINTAIN 3" MIN. EDGE DISTANCE.
W/ 1 5/8" MIN. EMBEDMENT

(2) 3/8" HILTI KWIK BOLT 3
ANCHORS TO CONCRETE SLAB
W/ 1 5/8" MIN. EMBEDMENT



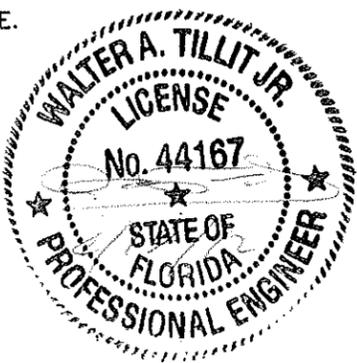
TYPE 1 CLIP DETAIL

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Miami Dade Product Control

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TYPICAL FRONT SCREEN WALL CABLE BRACING SYSTEMS

N. T. S.



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 TILTECO Inc. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, WINGNA GARDENS, FLORIDA 33166 Phone: (305) 971-1530, Fax: (305) 971-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	SCREEN ROOM/CANOPY GROFF ALUMINUM FLORIDA CORPORATION 13125 NW 47 AVE OPALOCKA, FL. 33054 PH: (305) 687-4195, FAX: (305) 681-6613		DRAWN BY: L.G./A.G. 03/20/12 DATE
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