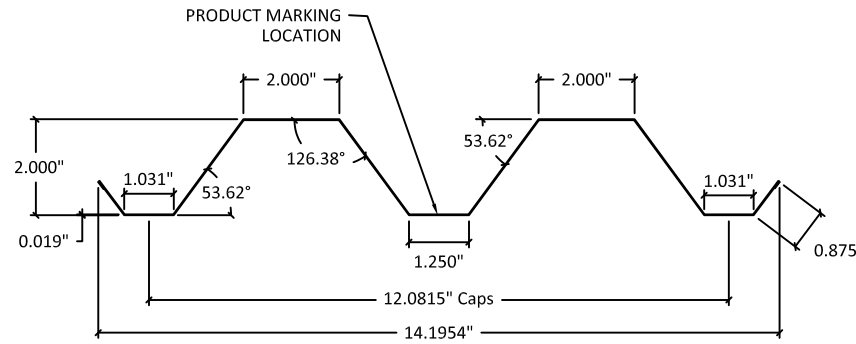
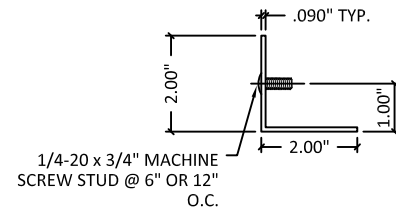


EASTERN METAL SUPPLY

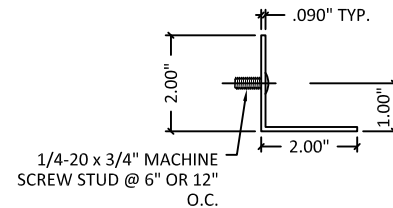
28 GAUGE STORM PANEL (HVHZ) (IMPACT)



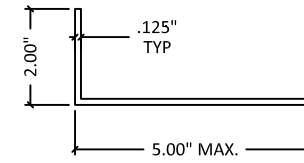
1 28 GA. STORM PANEL
GALVANIZED STEEL
Scale: 3" = 1'-0"



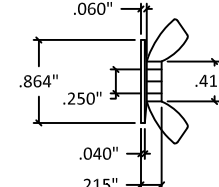
2 STUDDED ANGLE
STAINLESS STEEL
Scale: 3" = 1'-0"



2a REVERSE STUDDED ANGLE
STAINLESS STEEL
Scale: 3" = 1'-0"



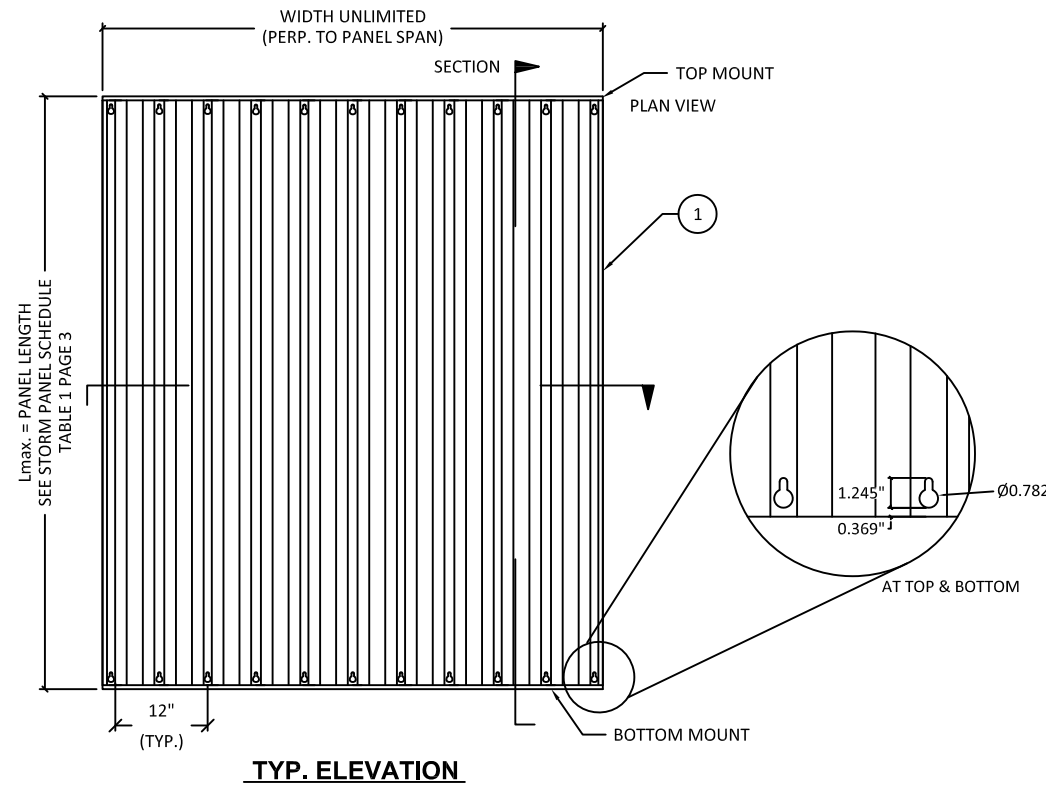
3 ANGLE
ALUMINUM
Scale: 3" = 1'-0"



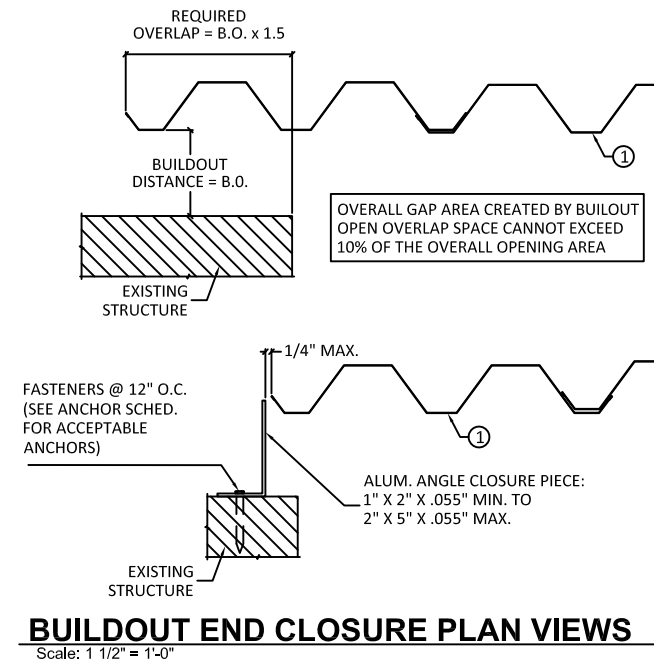
4 WASHERED WINGNUT
STAINLESS STEEL
Scale: HALF SIZE

GENERAL NOTES

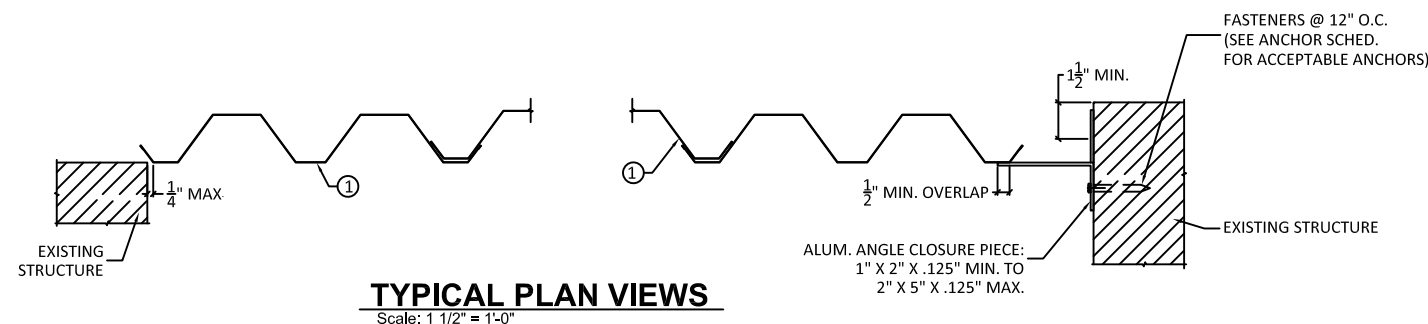
- STORM PANELS SHOWN ON THESE APPROVAL DOCUMENTS HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE. PRODUCTS HAVE BEEN EVALUATED FOR USE PER HVHZ REQUIREMENTS AND HAVE BEEN TESTED IN ACCORDANCE WITH TAS 201-94, TAS 202-94, AND TAS 203-94.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ SHALL BE USED.
- THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
- THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY LICENSED CONTRACTOR, PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
- ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS.
 - REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
 - REQUIRE THAT A ONE TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL SECTION.
- WHEN THE SITE CONDITIONING DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
- MANUFACTURER'S PRODUCT LABEL SHALL BE LOCATED IN A VISIBLE LOCATION ON THE EXTERIOR OF THE PANEL PER FBC SECTION 1709.9.3, LOCATED A MAXIMUM OF EVERY THREE (3) LINEAL FEET. LABEL SHALL CONTAIN INFORMATION AS REQUIRED BY FBC SECTION 1709.9.2.
- STORM PANELS SHALL BE 28 GAUGE GALVANIZED STEEL OF MINIMUM 0.190" THICKNESS (WITH $F_y = 50$ K.S.I. MIN.) ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
- ITW TAPCON FASTENERS SHALL BE CARBON STEEL WITH CLIMASEAL COATING OR 410 STAINLESS STEEL. DEWALT PANELMATES MALE/FEMALE SHALL BE CARBON STEEL WITH STALGARD COATING OR 18-8 STAINLESS STEEL. DEWALT PANELMATE INSERTS SHALL BE CARBON STEEL WITH SILVER STALGARD COATING. ALL POINTS SOLID-SET SHALL BE LEAD ALLOY AND ZAMAC ALLOY. ALL REMAINING FASTENERS AND BOLTS TO BE 304 SERIES STAINLESS STEEL, 18-8 STAINLESS STEEL OR GALVANIZED STEEL WITH A 33 K.S.I. MINIMUM YIELD STRENGTH.
- TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WERE APPLICABLE.
- THE PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO SUSTAIN THE NEW SUPERIMPOSED LOADS AND TO VERIFY ALL DIMENSIONS AT THE JOB SITE, BEFORE COMMENCING WITH THE WORK.



TYP. ELEVATION



BUILDOUT END CLOSURE PLAN VIEWS
Scale: 1 1/2" = 1'-0"



TYPICAL PLAN VIEWS
Scale: 1 1/2" = 1'-0"



4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204 FX: 561-841-0852

TITLE: 28 GAUGE STEEL STORM PANEL (HVHZ) (IMPACT)
GENERAL NOTES
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

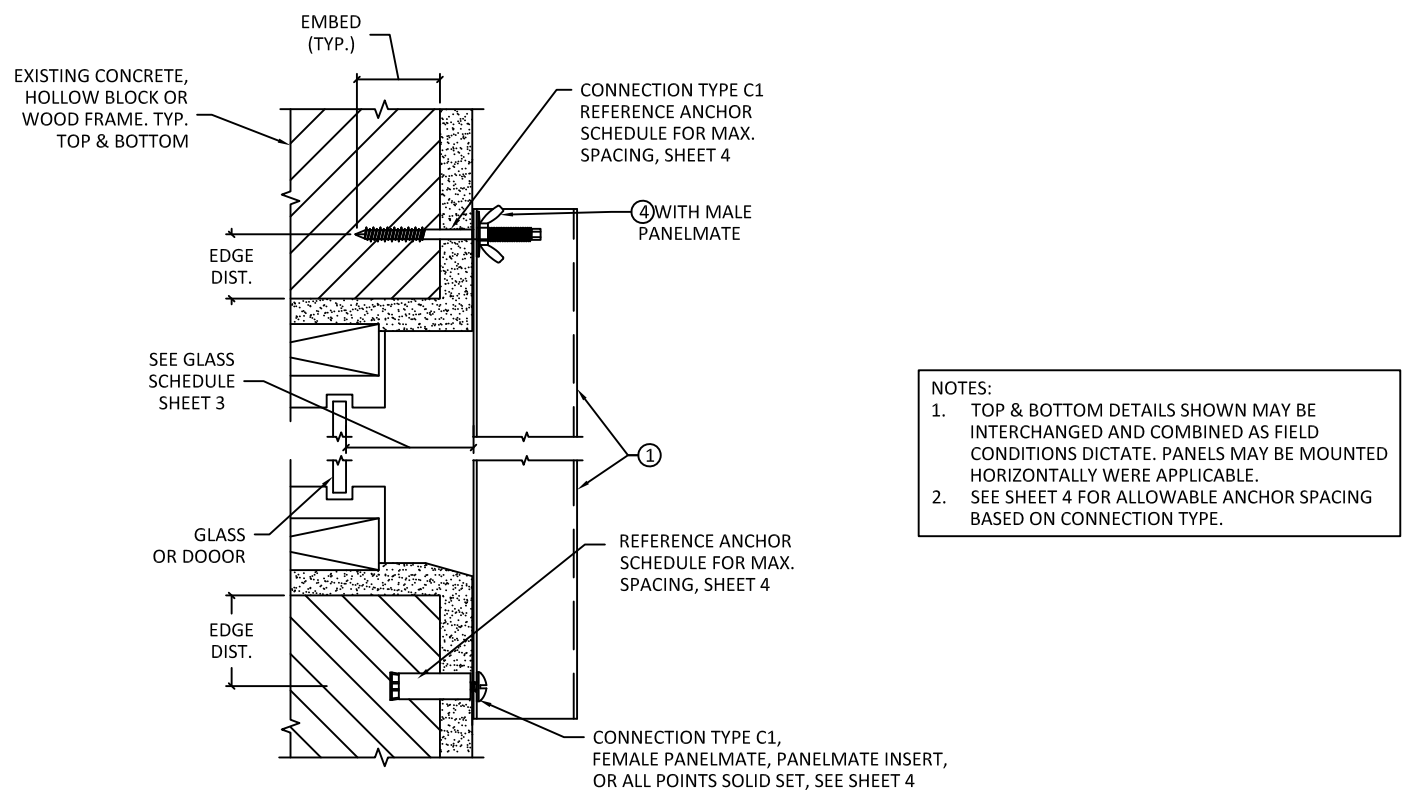
REMARKS	BY	DATE
A. 2020 FBC UPDATE	NUS	08.18.20
B. 2023 FBC UPDATE	MS	09.18.23

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

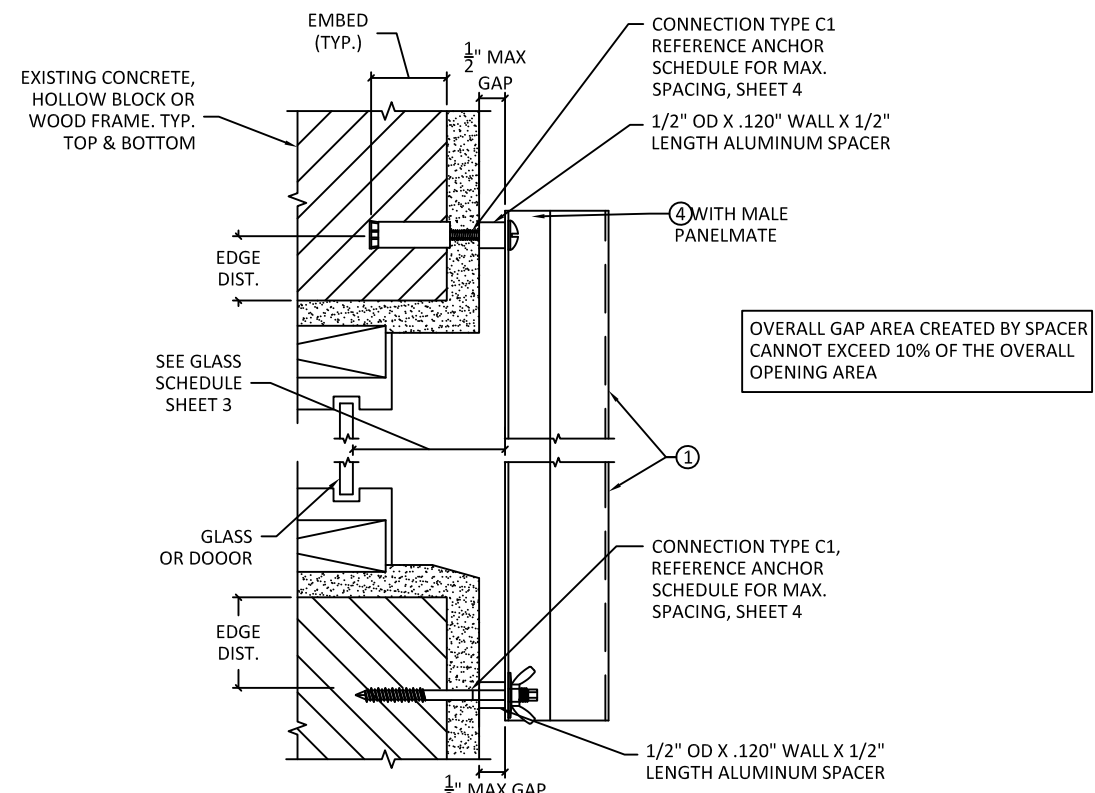


FL #: **FL22270**
DATE: **10.03.17**
DWG. BY: **SM** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **EMS004**
SHEET: **1** OF 4

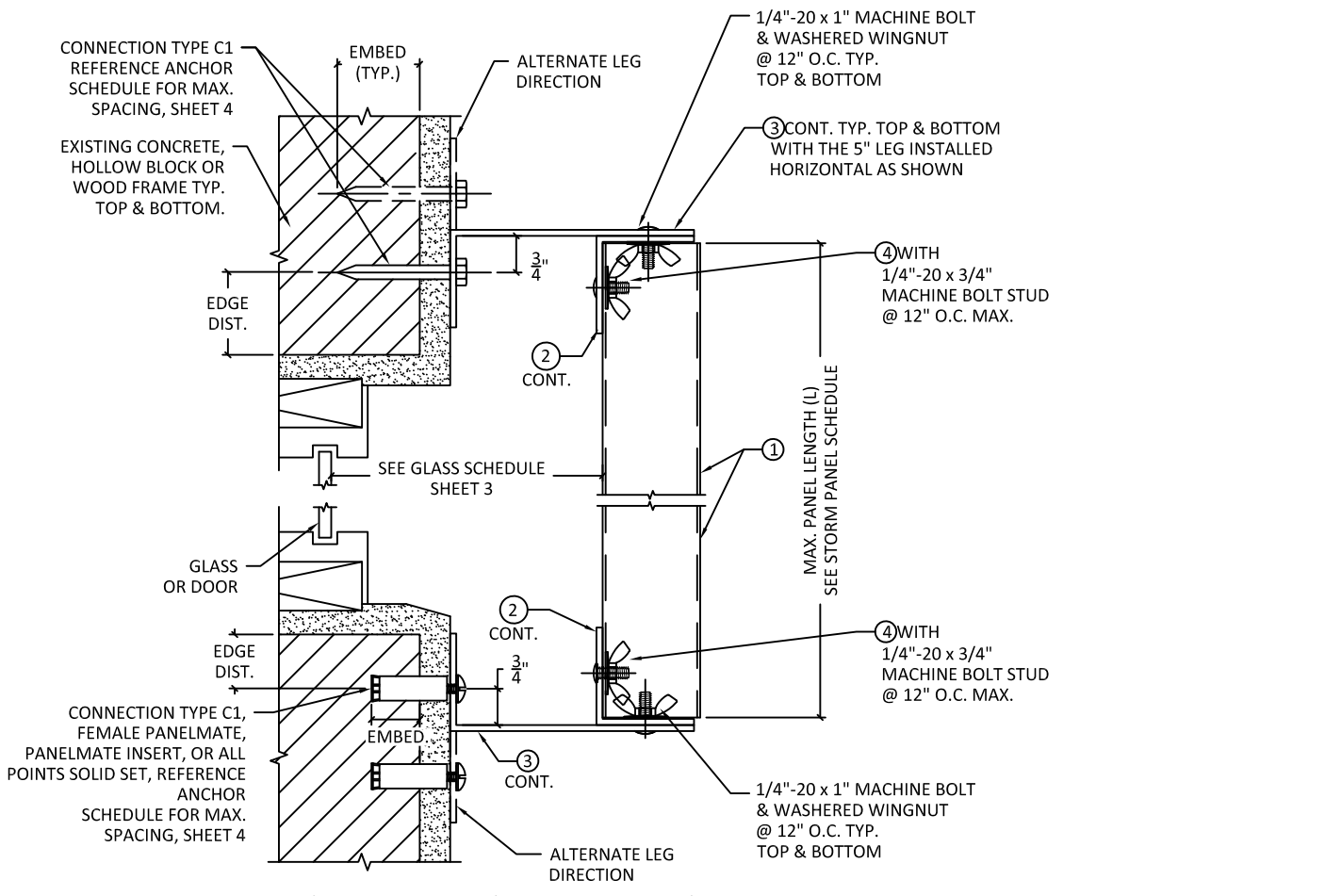
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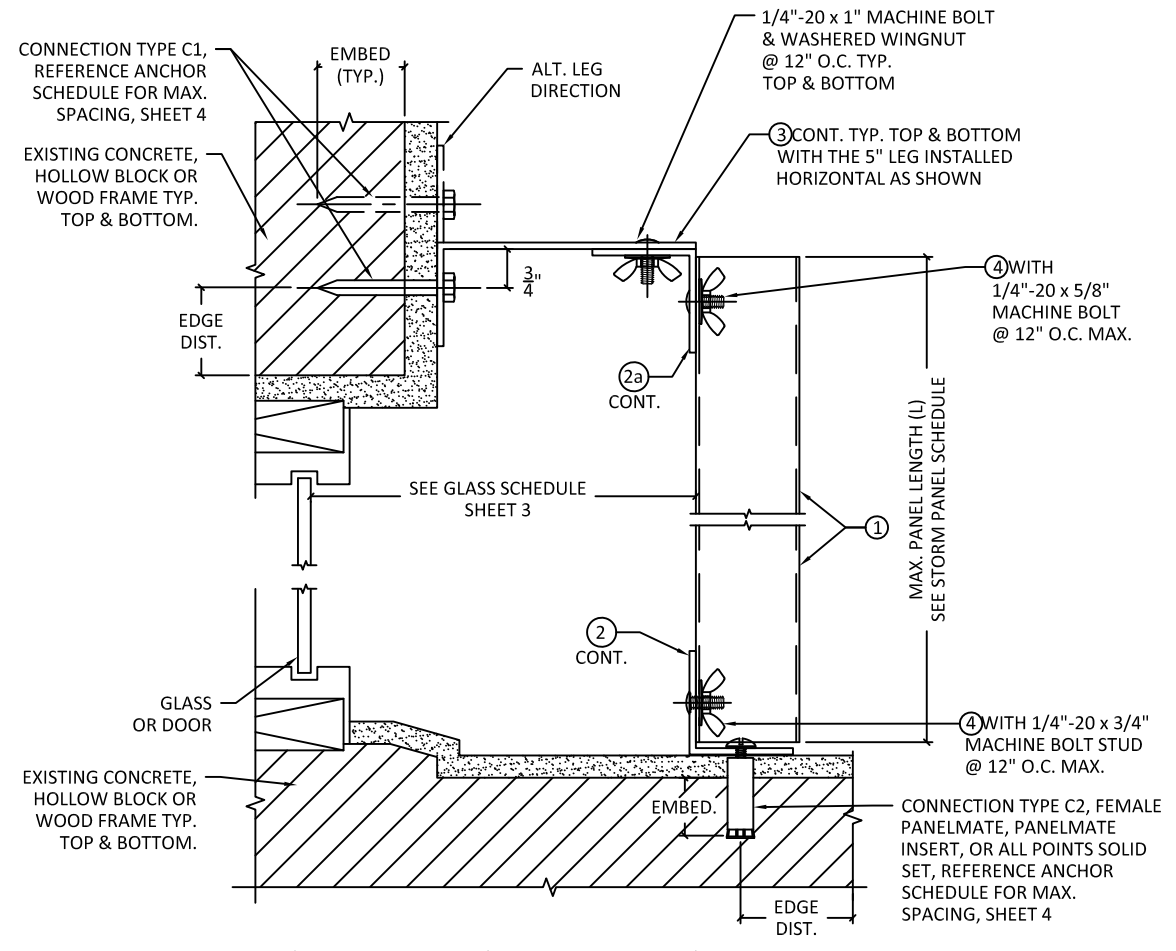
A WALL MOUNT SECTION - FLUSH
Scale: 3" = 1'-0"



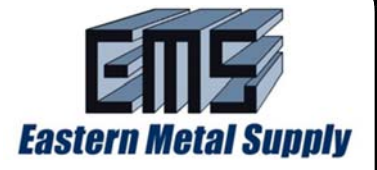
B WALL MOUNT SECTION - SPACED
Scale: 3" = 1'-0"



C BUILD-OUT MOUNT SECTION
Scale: 3" = 1'-0"



D BUILD-OUT MOUNT SECTION
Scale: 3" = 1'-0"

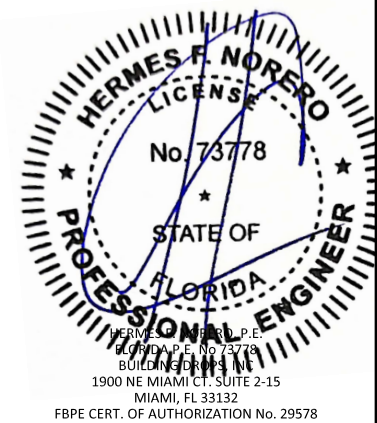


4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204 FX: 561-841-0852

TITLE: 28 GAUGE STEEL STORM PANEL (HVHZ) (IMPACT)
VERTICAL SECTIONS
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
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FL #: **FL22270**

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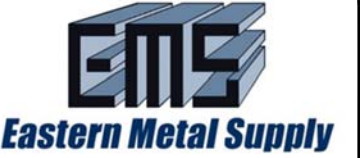
DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **EMS004**

SHEET:

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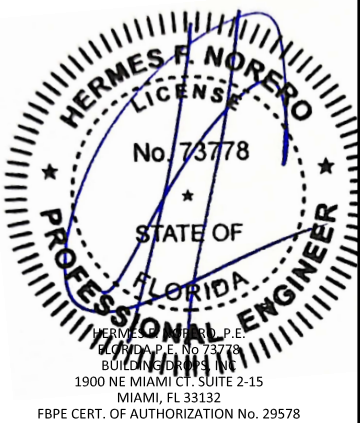
4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204 FX: 561-841-0852

TITLE: 28 GAUGE STEEL STORM PANEL (HVHZ) (IMPACT)
STORM PANEL SPAN SCHEDULE
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
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FL #: **FL22270**
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SCALE: **NTS**
DWG. #: **EMS004**
SHEET:

3

OF 4

TABLE 2 - REQUIRED SEPARATION FROM GLASS

POSITIVE DESIGN LOAD(W) (PSF)	ACTUAL STORM PANEL SPAN (L) (FEET)	MINIMUM SEPARATION FOR INSTALLATIONS < 30' ABOVE GRADE (INCHES)	MINIMUM SEPARATION FOR INSTALLATIONS > 30' ABOVE GRADE (INCHES)
20.0	3.00	4.75	1.02
20.0	5.58	4.75	1.27
20.0	8.00	5.09	2.15
20.0	9.17	5.09	2.98
25.0	3.00	4.75	1.03
25.0	5.58	4.75	1.34
25.0	8.00	5.09	2.44
25.0	8.86	5.09	3.16
30.0	3.00	4.75	1.03
30.0	5.58	4.75	1.41
30.0	8.00	5.09	2.72
30.0	8.47	5.09	3.16
35.0	3.00	4.75	1.04
35.0	5.58	4.75	1.48
35.0	8.00	5.09	3.01
35.0	8.15	5.09	3.16
40.0	3.00	4.75	1.05
40.0	5.58	4.75	1.55
40.0	7.88	5.09	3.16
45.0	3.00	4.75	1.05
45.0	5.58	4.75	1.61
45.0	7.65	5.09	3.16
50.0	3.00	4.75	1.06
50.0	5.58	4.75	1.68
50.0	7.45	5.09	3.16
55.0	3.00	4.75	1.06
55.0	5.58	4.75	1.75
55.0	7.28	5.09	3.16
60.0	3.00	4.75	1.07
60.0	5.58	4.75	1.82
60.0	7.10	5.09	3.14
65.0	3.00	4.75	1.07
65.0	5.58	4.75	1.89
65.0	6.56	5.09	2.68
70.0	3.00	4.75	1.08
70.0	5.58	4.75	1.95
70.0	6.09	5.09	2.35
72.0	3.00	4.75	1.08
72.0	5.58	4.75	1.98

*SEE TABLES 1 & 2 NOTES NUMBER 3

TABLE 1 - MAXIMUM ALLOWABLE STORM SPAN SCHEDULE

NEGATIVE DESIGN LOAD (PSF)	L MAX (FT-IN)
20	9' - 2"
25	8' - 10"
30	8' - 6"
35	8' - 2"
40	7' - 11"
45	7' - 8"
50	7' - 5"
55	7' - 3"
60	7' - 1"
65	6' - 7"
70	6' - 1"
72	5' - 7"

TABLE 1 & 2 NOTES:

- ENTER TABLE 1 WITH REQUIRED NEGATIVE DESIGN LOAD TO DETERMINE MAX. ALLOWABLE PANEL SPAN (L_{max}). POSITIVE LOADS LESS THAN OR EQUAL TO THE NEGATIVE LOAD ARE ACCEPTABLE.
- FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.
- ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. REQUIRED SEPARATION FROM GLASS.
- ALLOWABLE PRESSURES, SPANS, AND SEPARATION FROM GLASS BASED ON TESTED MOMENT, SHEAR, WORST CASE DEFLECTION UNDER LARGE MISSILE IMPACT TESTING AND 2" MAXIMUM ALLOWABLE DEFLECTION UNDER LOAD PLUS 1".

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