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ANDERSEN CORPORATION

A-SERIES NON-REINFORCED MULLION

(NON-HVHZ) (NON-IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- REFER TO SHEET 5 & 6 FOR INSTALLATION DETAILS, ANCHOR SELECTION, AND ANCHOR REQUIREMENTS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - CMU - STRENGTH CONFORMANCE TO ASTM C90. MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM GA. WALL THICKNESS
 - ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - SECTION 1709.8 OF THE CURRENT EDITION OF FBC
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 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 IN NON-HVHZ AREAS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** FOR THIS PRODUCT.
- MULLION MATERIAL: WOOD/LAMINATED VENEER LUMBER PONDEROSA PINE (MIN. S.G. = 0.45)

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
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3	INSTALLATION DETAILS
4	1-WAY DESIGN PRESSURE TABLES
5	THROUGH FRAME INSTALLATION
6	STRAP INSTALLATION
7	NAIL FIN INSTALLATION



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TITLE:
A-SERIES NON-REINFORCED MULLION

GENERAL AND INSTALLATION NOTES

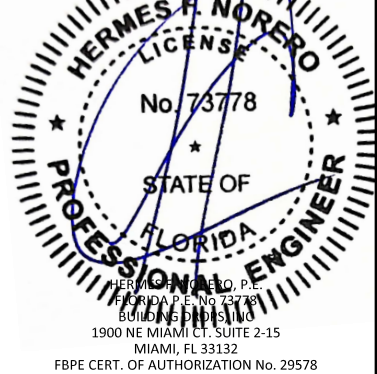
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BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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REMARKS	BY	DATE
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.10.20 08:20:59 -0400



FL #:
FL15922

DATE: **01.26.18**

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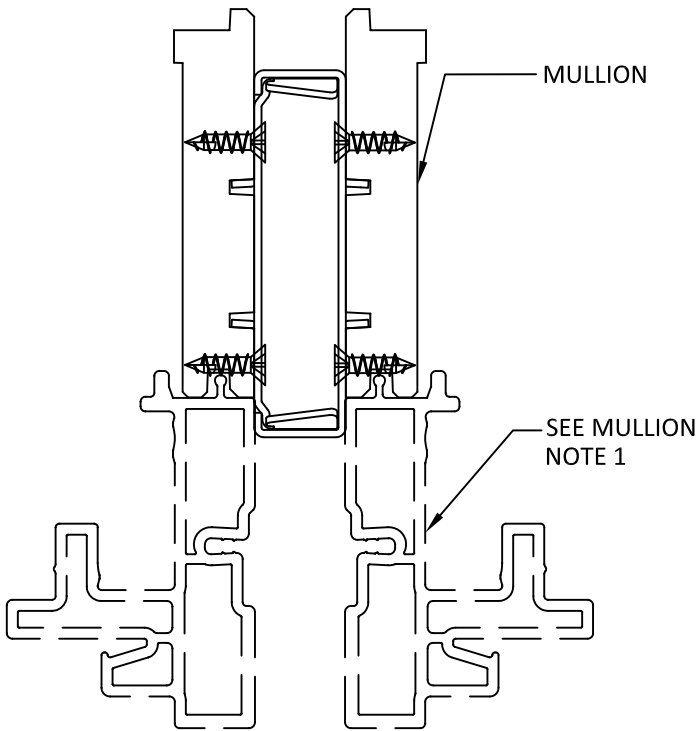
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DWG. #: **AWD111**

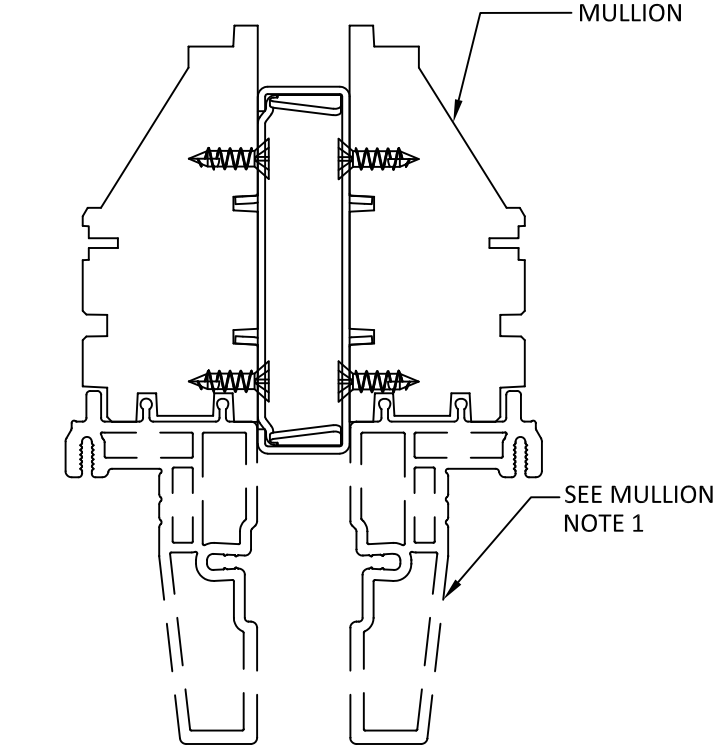
SHEET
1

OF 7

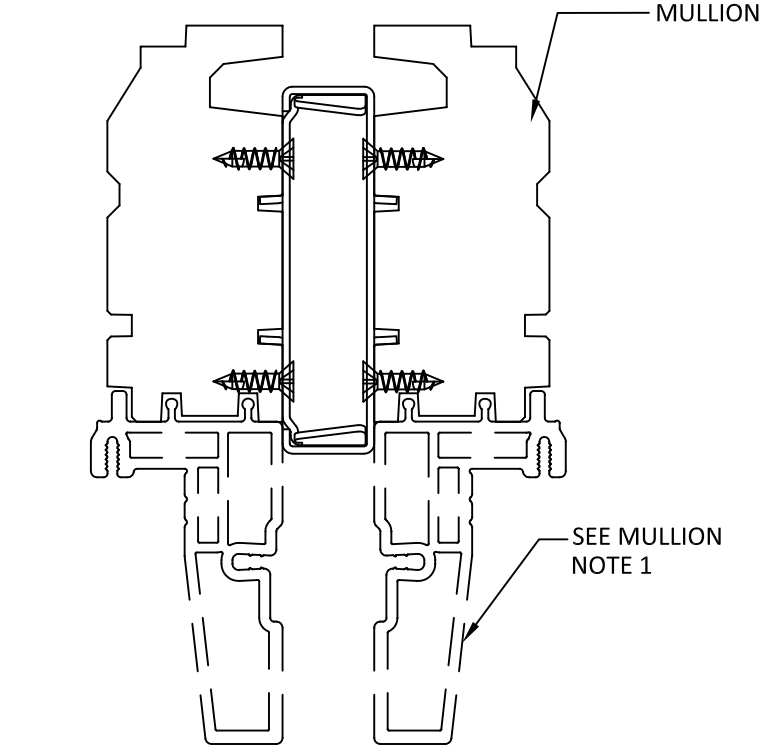
TYPICAL A-SERIES MULLION, NON-REINFORCED, CROSS SECTION
QUALIFIED COMBINATIONS: AAN/ATV/ACW/ADH/APW



A
2
ADH-ADH
VERTICAL MULLION

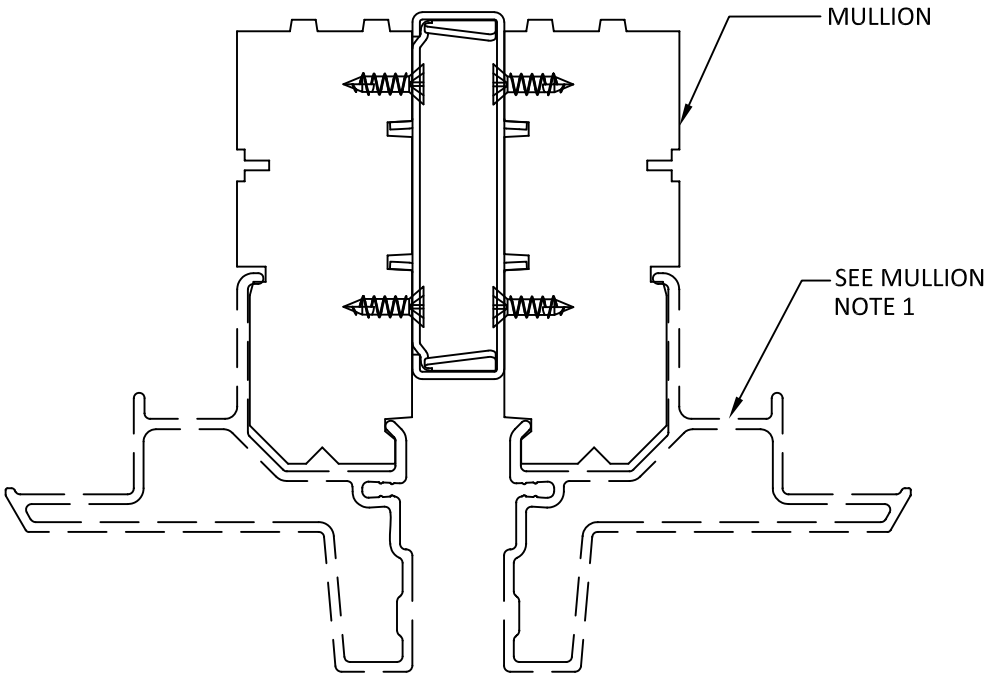


B
2
AAN-AAN
VERTICAL OR HORIZONTAL MULLION



C
2
ATV-ATV
VERTICAL OR HORIZONTAL MULLION

D
2
ACW-ACW
VERTICAL OR HORIZONTAL MULLION



E
2
APW-APW
VERTICAL OR HORIZONTAL MULLION

- MULLION NOTES:
1. WINDOW UNIT SHOWN ON THIS SHEET IS TYPICAL AND SHALL BE USED FOR DIAGRAMMATIC PURPOSES ONLY. ALL WINDOW AND DOOR PRODUCTS TO BE ZERO MULLION (NO MULLION) SHALL BE UNDER SEPARATE FL APPROVAL.
 2. MULLION SHOWN HEREIN MAY BE USED WITH APPROVED WINDOW WHICH ARE COMPATIBLE WITH "A SERIES NON-REINFORCED" MULLION (E.G. ANDERSEN CORPORATION 'A' SERIES PRODUCTS)
 3. INSTALLATION SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SEALING & ASSEMBLY. SHOULD MANUFACTURER'S INSTALLATION INSTRUCTION AND THOSE SHOWN HEREIN DEViate, THE DRAWINGS HEREIN SHALL GOVERN.
 4. MULLION MAY BE ANY COMBINATION OF ANDERSEN AAN, ATV, ACW, ADH, APW AND ASW WINDOWS.



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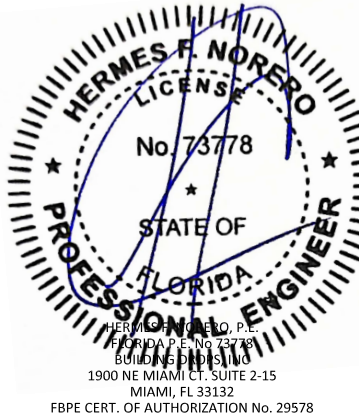
TITLE:
A-SERIES NON-
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1-WAY MULLION ASSEMBLIES

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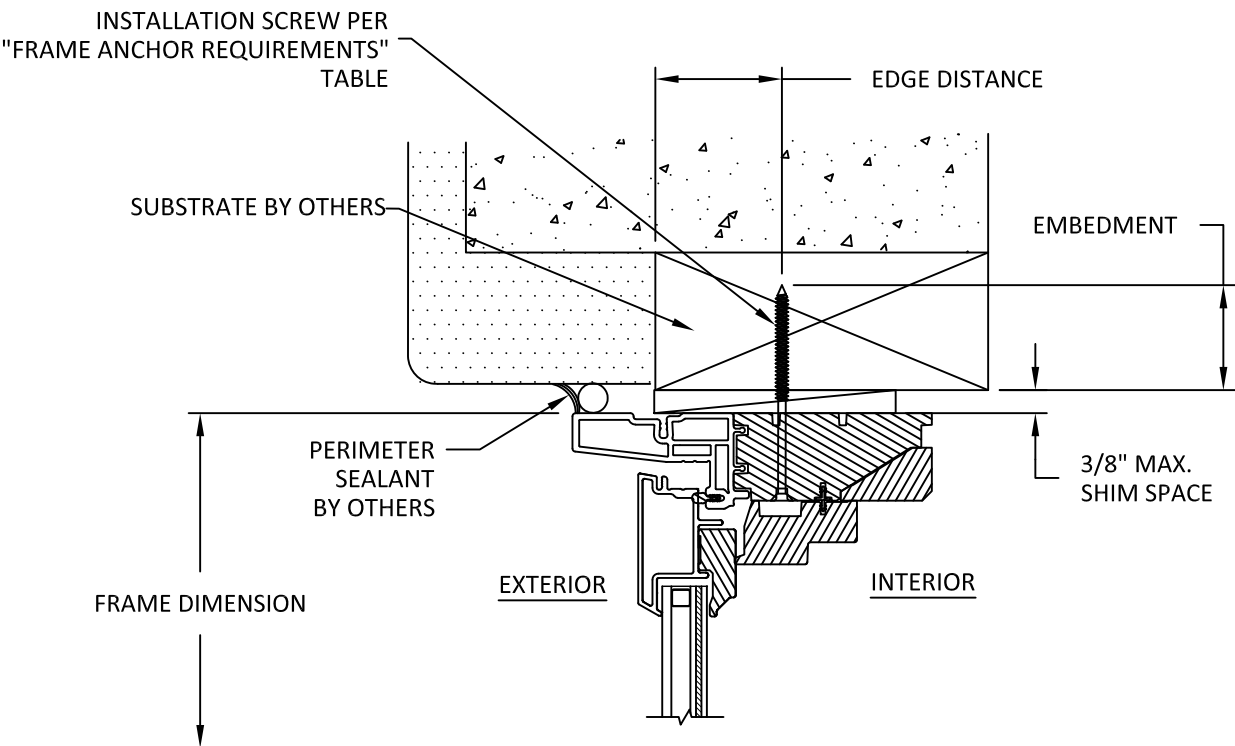
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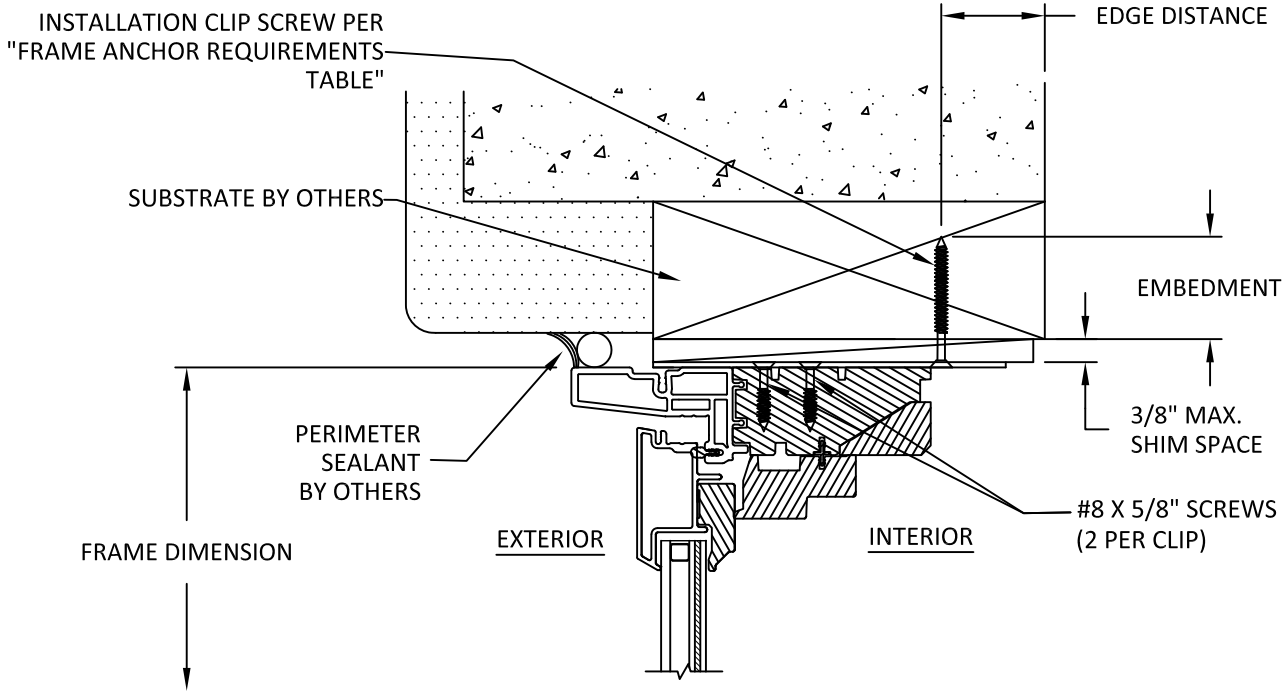
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D
3

HEAD SECTION

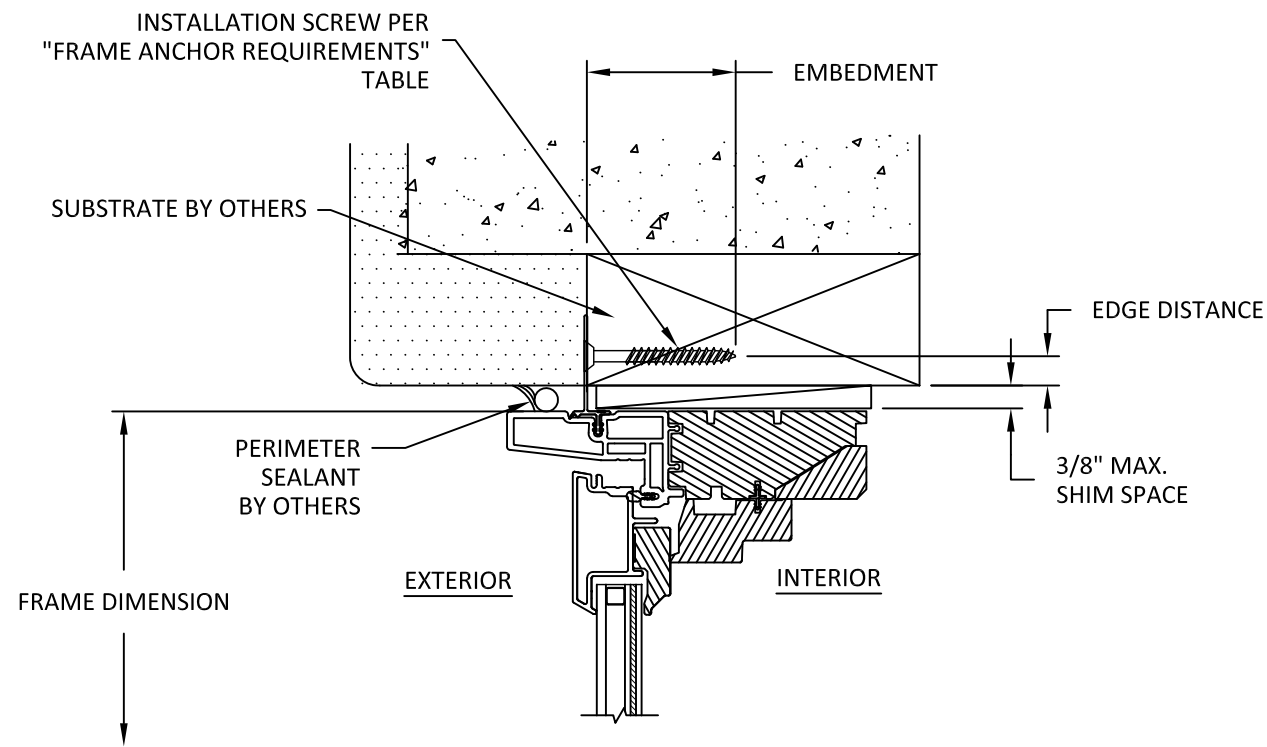
FLANGELESS - THROUGH THE HEAD
(SILL & SIDES ARE INSTALLED THE SAME)



E
3

HEAD SECTION

FLANGELESS - INSTALLATION CLIPS
(SILL & SIDES ARE INSTALLED THE SAME)



F
3

HEAD SECTION

NAIL FIN INSTALLATION - HEAD
(SILL & SIDES ARE INSTALLED THE SAME)

ANCHOR SCHEDULE					
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE	NO OF ANCHORS PER LOCATION
THROUGH FRAME	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.5"	0.75"	1
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 SMS	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1
	CONCRETE: f'c=3000 PSI	1/4" ULTRACON	1.75"	2.50"	1
	MASONRY: f'c=2000 PSI	1/4" ULTRACON	1"	2.50"	1
THROUGH CLIP	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.5"	0.75"	1
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 SMS	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1
	CONCRETE: f'c=3000 PSI	1/4" ULTRACON	1.75"	2.50"	1
	MASONRY: f'c=2000 PSI	1/4" ULTRACON	1"	2.50"	1
NAIL FIN	WOOD: MIN. SG = 0.55	#8 WOOD SCREW	1.5"	0.75"	1
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 SMS	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1



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INSTALLATION DETAILS

PREPARED BY: BUILDING DROPS, INC.

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SHEET

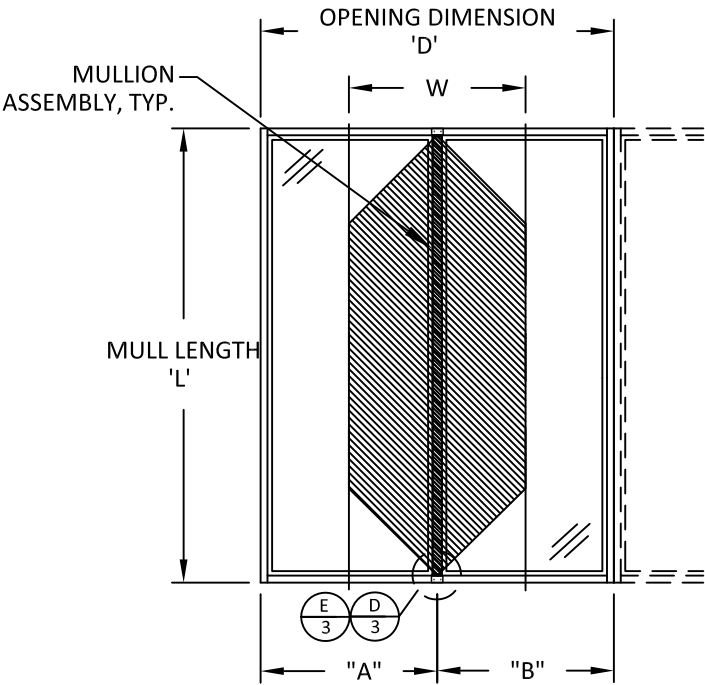
3

NON-REINFORCED 'A' SERIES MULLION
ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)

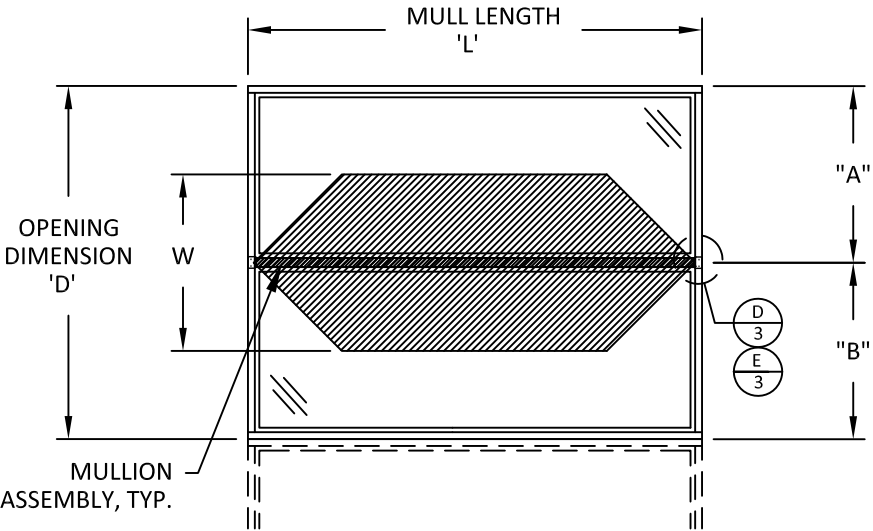
Maximum design pressure capacity chart (psf):											
L - Mull Length (in)	W - Tributary Width (in)										
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	53.1	60.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48.0	150.0	150.0	150.0	150.0	139.6	131.1	124.6	116.6	113.9	113.9	113.9
54.0	150.0	144.4	128.5	116.3	107.0	99.6	93.9	85.9	81.5	80.1	80.0
60.0	133.7	115.8	102.7	92.7	84.8	78.6	73.6	66.4	61.8	59.5	58.3
66.0	109.9	95.0	84.1	75.6	69.0	63.7	59.4	53.0	48.7	46.3	44.4
72.0	92.0	79.4	70.1	63.0	57.3	52.8	49.1	43.5	39.6	37.2	35.1
78.0	78.1	67.4	59.4	53.3	48.4	44.5	41.3	36.4	32.9	30.7	28.7
84.0	67.2	57.9	51.0	45.7	41.4	38.0	35.2	30.9	27.8	25.8	23.9
90.0	58.4	50.3	44.3	39.6	35.9	32.9	30.4	26.6	23.9	22.1	20.3
96.0	48.3	41.6	36.6	32.8	29.7	27.3	25.2	22.1	19.8	18.3	16.8

NOTES:

- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD INSTALLATION' PROCEDURES, SEE DETAILS D/3, E/3 & F/3.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- WINDOWS SHALL BE UNDER SEPARATE APPROVAL.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT UNDER SEPARATE APPROVAL.
- MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.
- REFER TO SHEET 3 FOR INSTALLATION DETAILS.
- WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



$$\frac{A + B}{2} = W$$



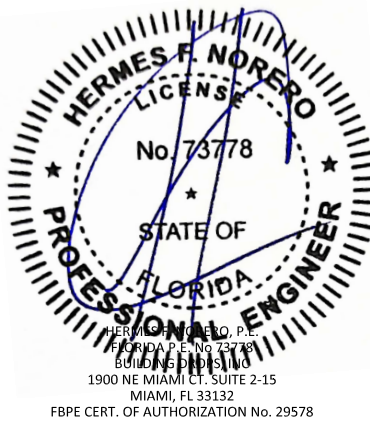
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A-SERIES NON-
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ONE-WAY CONFIGURATION

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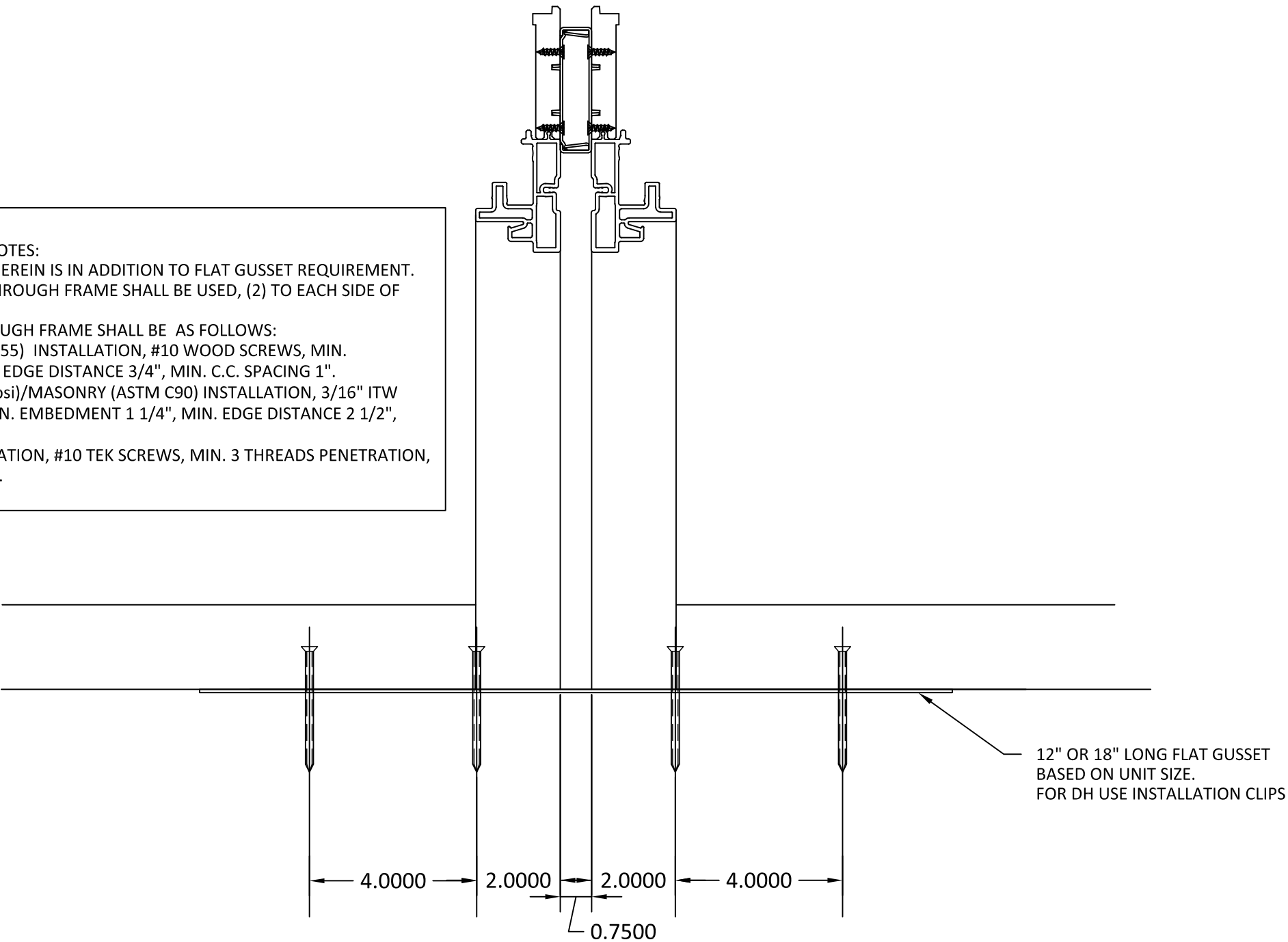


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SHEET	4

TYPICAL A SERIES MULLION, NON-REINFORCED, INSTALLATION DIAGRAM

THROUGH FRAME INSTALLATION NOTES:

- 1. FRAME ANCHORAGE SHOWN HEREIN IS IN ADDITION TO FLAT GUSSET REQUIREMENT.
- 2. (4) INSTALLATION ANCHORS THROUGH FRAME SHALL BE USED, (2) TO EACH SIDE OF MULLION.
- 3. INSTALLATION ANCHORS THROUGH FRAME SHALL BE AS FOLLOWS:
 - 3.1. FOR WOOD (MIN. S.G. = 0.55) INSTALLATION, #10 WOOD SCREWS, MIN. EMBEDMENT 1 1/2", MIN. EDGE DISTANCE 3/4", MIN. C.C. SPACING 1".
 - 3.2. FOR CONCRETE (f'c=3000 psi)/MASONRY (ASTM C90) INSTALLATION, 3/16" ITW TAPCONS STAGGERED, MIN. EMBEDMENT 1 1/4", MIN. EDGE DISTANCE 2 1/2", MIN. C.C. SPACING 1 3/4"
 - 3.3. FOR METAL STUD INSTALLATION, #10 TEK SCREWS, MIN. 3 THREADS PENETRATION, MIN. 1/2" EDGE DISTANCE.
- 4. FLANGE IS OPTIONAL.



ELEVATION VIEW
THROUGH FRAME ANCHORAGE, TYP.

NOTE: DETAILS HEREIN ARE FOR ILLUSTRATION
PURPOSES FOR ANCHOR PLACEMENT ONLY



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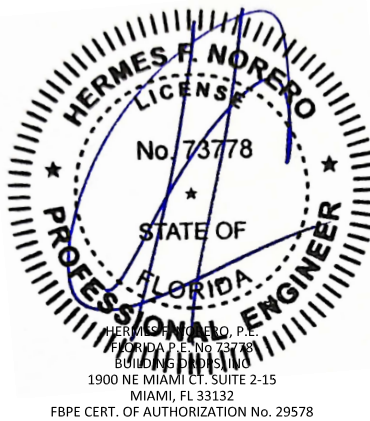
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THROUGH FRAME ANCHORAGE

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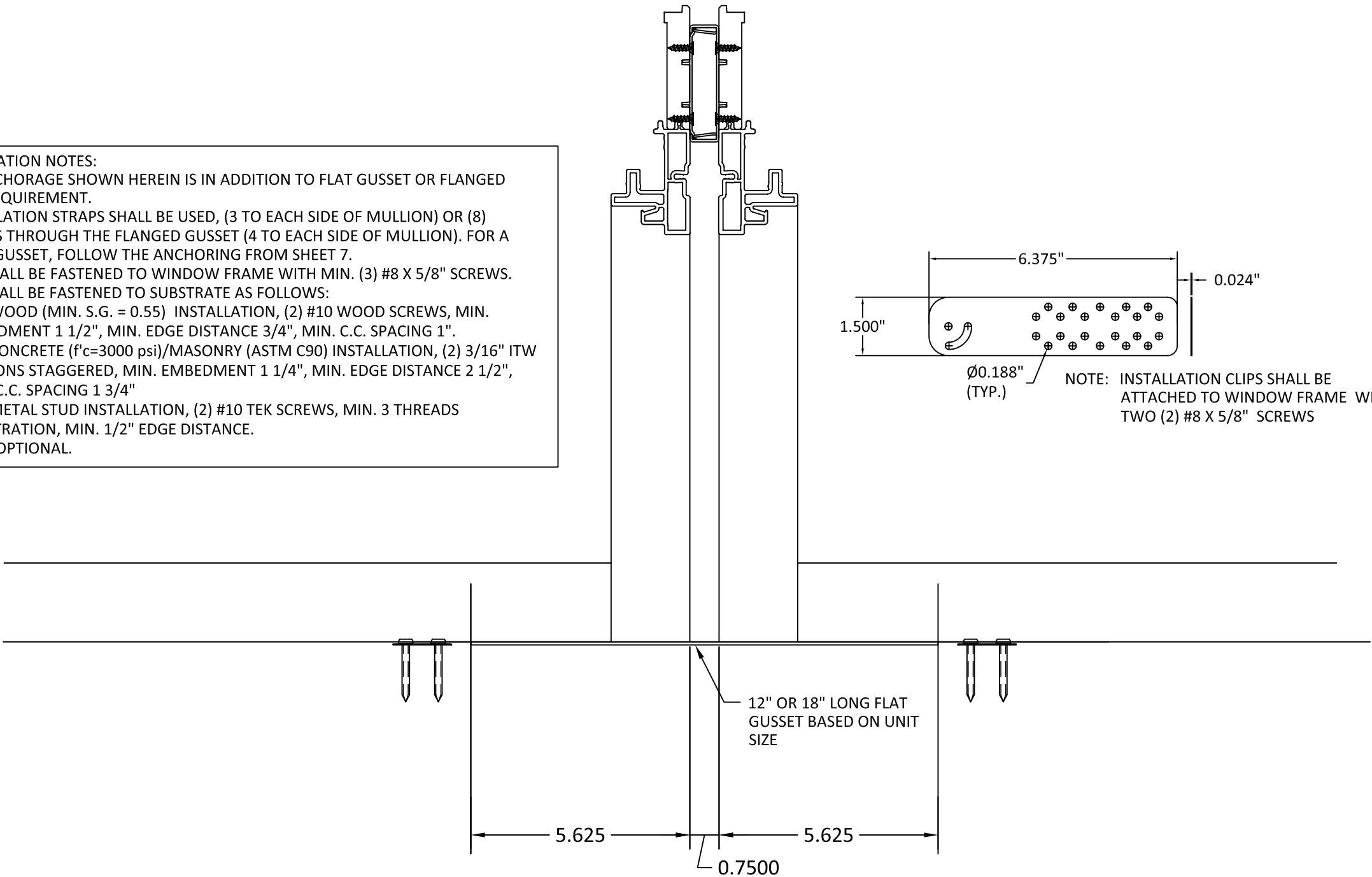
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SHEET	5

TYPICAL A SERIES MULLION, NON-REINFORCED, INSTALLATION DIAGRAM

- STRAP INSTALLATION NOTES:
1. STRAP ANCHORAGE SHOWN HEREIN IS IN ADDITION TO FLAT GUSSET OR FLANGED GUSSET REQUIREMENT.
 2. (6) INSTALLATION STRAPS SHALL BE USED, (3 TO EACH SIDE OF MULLION) OR (8) FASTENERS THROUGH THE FLANGED GUSSET (4 TO EACH SIDE OF MULLION). FOR A FLANGED GUSSET, FOLLOW THE ANCHORING FROM SHEET 7.
 3. STRAPS SHALL BE FASTENED TO WINDOW FRAME WITH MIN. (3) #8 X 5/8" SCREWS.
 4. STRAPS SHALL BE FASTENED TO SUBSTRATE AS FOLLOWS:
 - 4.1. FOR WOOD (MIN. S.G. = 0.55) INSTALLATION, (2) #10 WOOD SCREWS, MIN. EMBEDMENT 1 1/2", MIN. EDGE DISTANCE 3/4", MIN. C.C. SPACING 1".
 - 4.2. FOR CONCRETE (f'c=3000 psi)/MASONRY (ASTM C90) INSTALLATION, (2) 3/16" ITW TAPCONS STAGGERED, MIN. EMBEDMENT 1 1/4", MIN. EDGE DISTANCE 2 1/2", MIN. C.C. SPACING 1 3/4"
 - 4.3. FOR METAL STUD INSTALLATION, (2) #10 TEK SCREWS, MIN. 3 THREADS PENETRATION, MIN. 1/2" EDGE DISTANCE.
 5. FLANGE IS OPTIONAL.



ELEVATION VIEW
STRAP ANCHORAGE, TYP.

NOTE: DETAILS HEREIN ARE FOR ILLUSTRATION PURPOSES FOR ANCHOR PLACEMENT ONLY



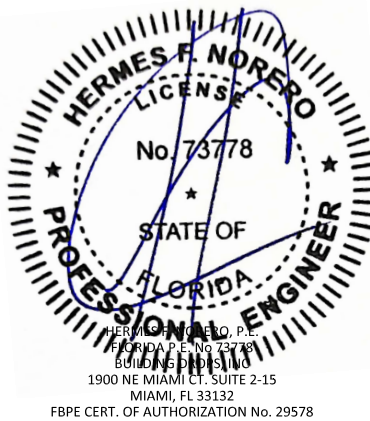
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STRAP ANCHORAGE

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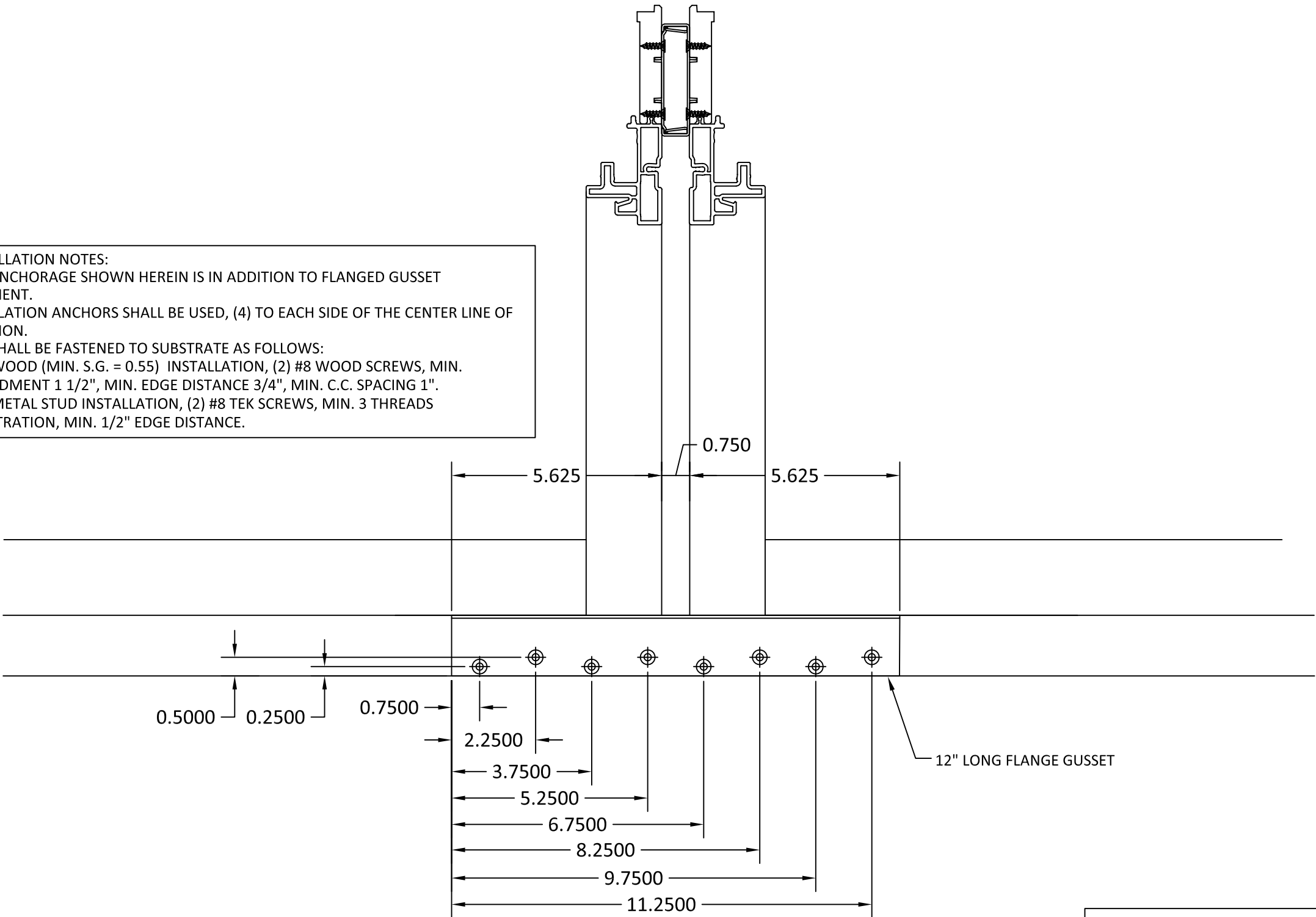
SCALE: NTS

DWG. #: AWD111

SHEET
6

TYPICAL A SERIES MULLION, NON-REINFORCED, INSTALLATION DIAGRAM

- NAIL FIN INSTALLATION NOTES:
- 1. NAIL FIN ANCHORAGE SHOWN HEREIN IS IN ADDITION TO FLANGED GUSSET REQUIREMENT.
 - 2. (8) INSTALLATION ANCHORS SHALL BE USED, (4) TO EACH SIDE OF THE CENTER LINE OF THE MULLION.
 - 3. NAIL FIN SHALL BE FASTENED TO SUBSTRATE AS FOLLOWS:
 - 3.1. FOR WOOD (MIN. S.G. = 0.55) INSTALLATION, (2) #8 WOOD SCREWS, MIN. EMBEDMENT 1 1/2", MIN. EDGE DISTANCE 3/4", MIN. C.C. SPACING 1".
 - 3.2. FOR METAL STUD INSTALLATION, (2) #8 TEK SCREWS, MIN. 3 THREADS PENETRATION, MIN. 1/2" EDGE DISTANCE.



ELEVATION VIEW
NAIL FIN ANCHORAGE, TYP.

NOTE: DETAILS HEREIN ARE FOR ILLUSTRATION PURPOSES FOR ANCHOR PLACEMENT ONLY



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BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

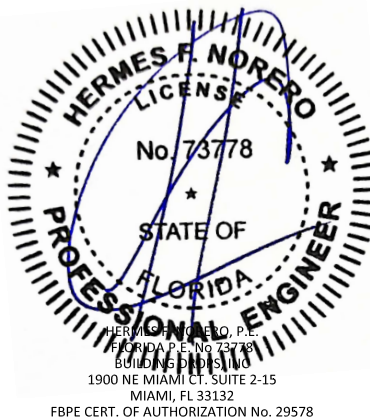
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PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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REMARKS	BY	DATE
2023 CODE CHANGE	MS	10/19/23

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 #:	FL15922
DATE:	01.26.18
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD111
SHEET	7