

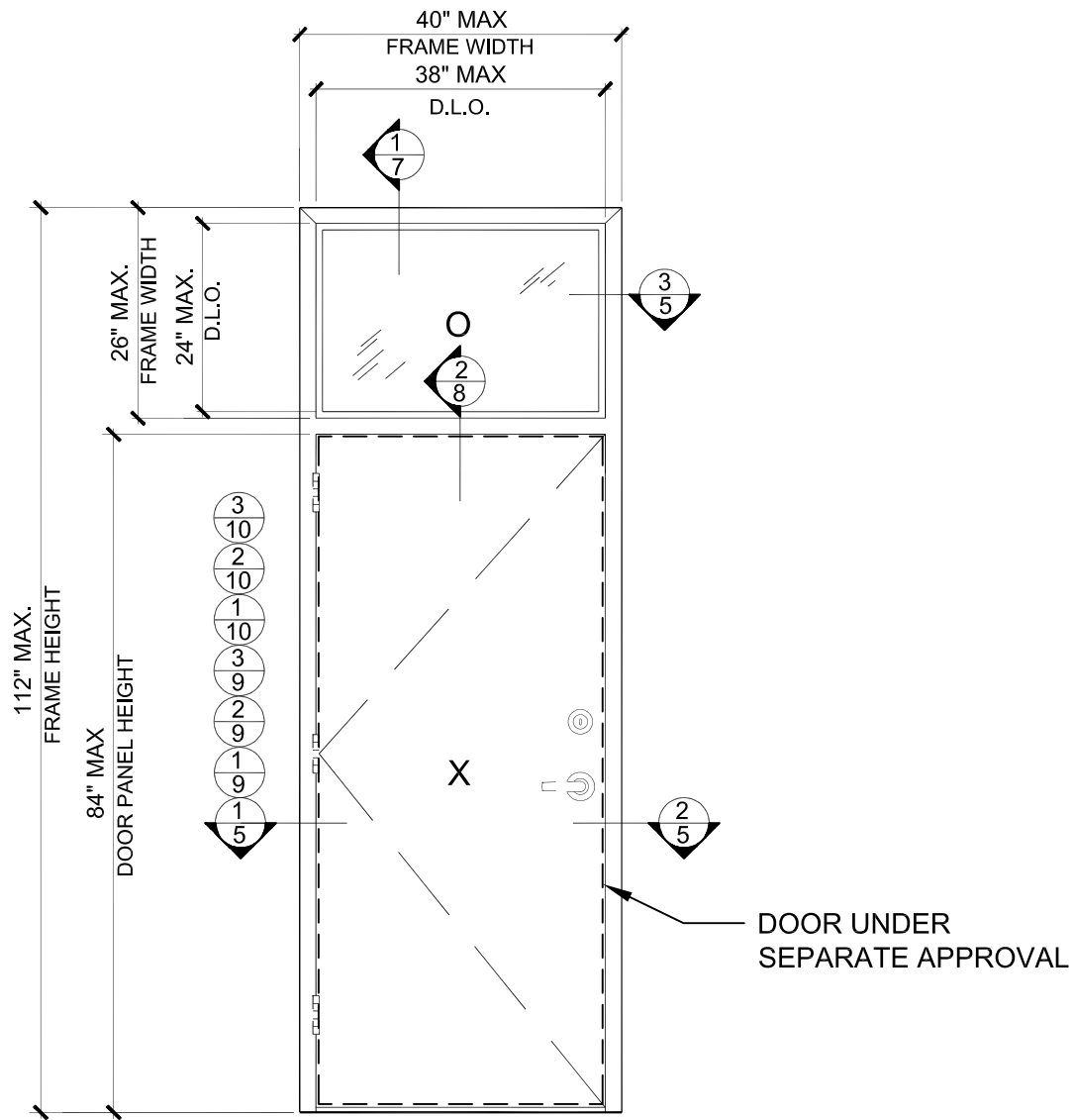


MESKER DOOR INC.
3440 Standwood Blvd.
Huntsville, AL 35811
PH: (256) 851-6670

"N" SERIES COMMERCIAL OUTSWING STEEL SINGLE DOOR W/TRANSOM (LMI)

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH 2006 INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC) WITH 2006 TEXAS REVISIONS
2. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON ELEVATIONS / DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
4. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS.
5. METAL STRUCTURES NOT BY MESKER INC. MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.
6. FRAME: MIN. 16 GA. (0.053"THK.) STEEL MIN. Fy = 42 KSI MIN.

NOTES:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.



SINGLE DOOR TYP. ELEVATION

OVERALL FRAME SIZE		TRANSOM D.L.O		DESIGN PRESSURE (PSF)	
WIDTH	HEIGHT	WIDTH	HEIGHT	POSITIVE	NEGATIVE
40.00"	112.00"	38.00"	24.00"	+65.0	-65.0

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TITLE: "N" SERIES COMMERCIAL OUTSWING STEEL DOOR

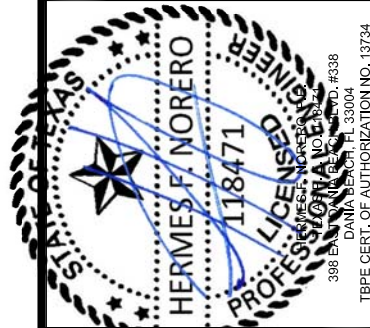
INSTALLATION & GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

NO.	DESCRIPTION	BY	DATE



DATE: 02.06.17
DWN BY: LS
CHK BY: HFN
SCALE: NTS

DWG #: MDI009

SHEET: 1 OF 16

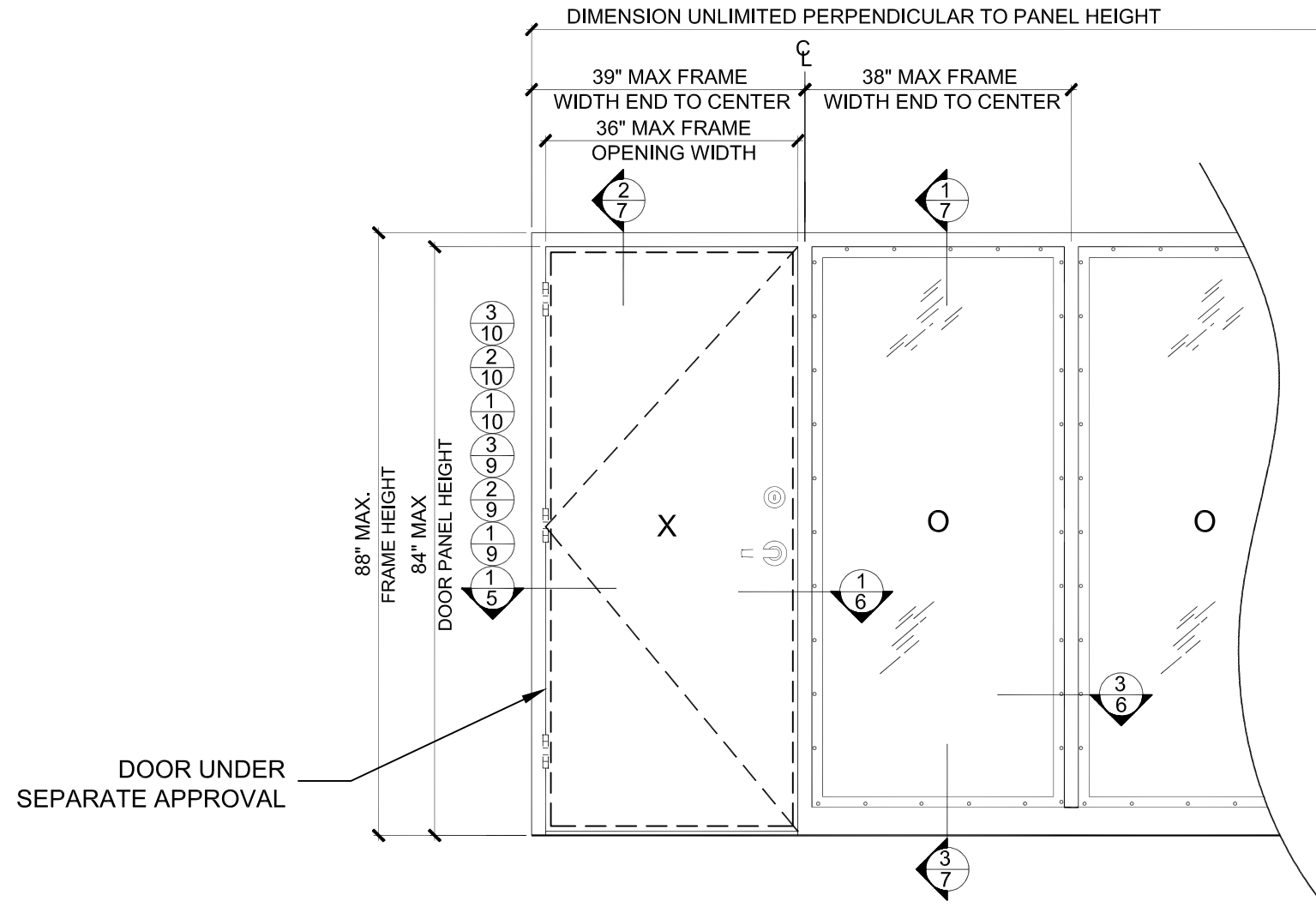
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"N" SERIES COMMERCIAL OUTSWING STEEL DOOR W / SIDELITE (LMI)



DOOR UNDER SEPARATE APPROVAL

"N" WITH SIDELITE

OVERALL DOOR SIZE		SIDELITE D.L.O		DESIGN PRESSURE (PSF)	
WIDTH	HEIGHT	WIDTH	HEIGHT	POSITIVE	NEGATIVE
39.00"	88.00"	34.75"	78.75"	+65.0	-65.0

TITLE: "N" SERIES COMMERCIAL OUTSWING STEEL DOOR

INSTALLATION & GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.
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DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

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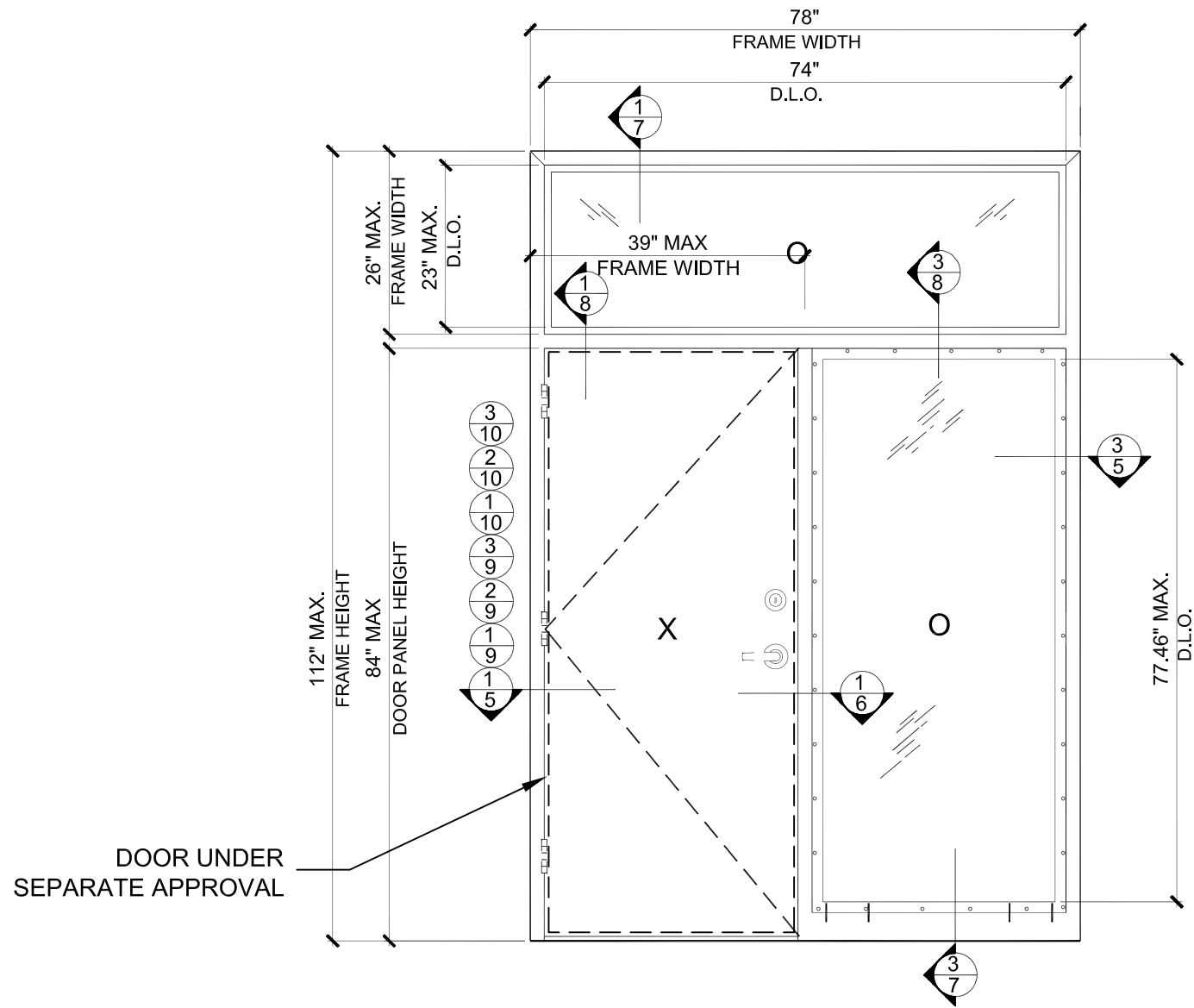
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SHEET: **2 OF 16**

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"N" SERIES COMMERCIAL OUTSWING STEEL DOOR W/TRANSOM & SIDELITE(LMI)



DOOR UNDER SEPARATE APPROVAL

"N" SIDELITE & TRANSOM

OVERALL FRAME SIZE		SIDELITE D.L.O		TRANSOM D.L.O		DESIGN PRESSURE (PSF)	
WIDTH	HEIGHT	WIDTH	HEIGHT	WIDTH	HEIGHT	POSITIVE	NEGATIVE
78.00"	112.00"	34.75"	78.75"	74.00"	23.00"	+65.0	-65.0



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TITLE: "N" SERIES COMMERCIAL
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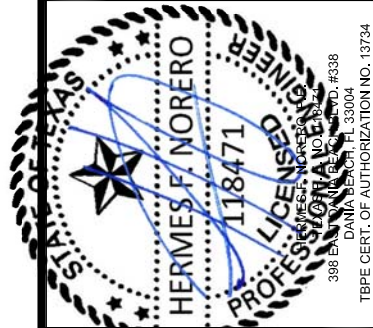
INSTALLATION & GENERAL NOTES

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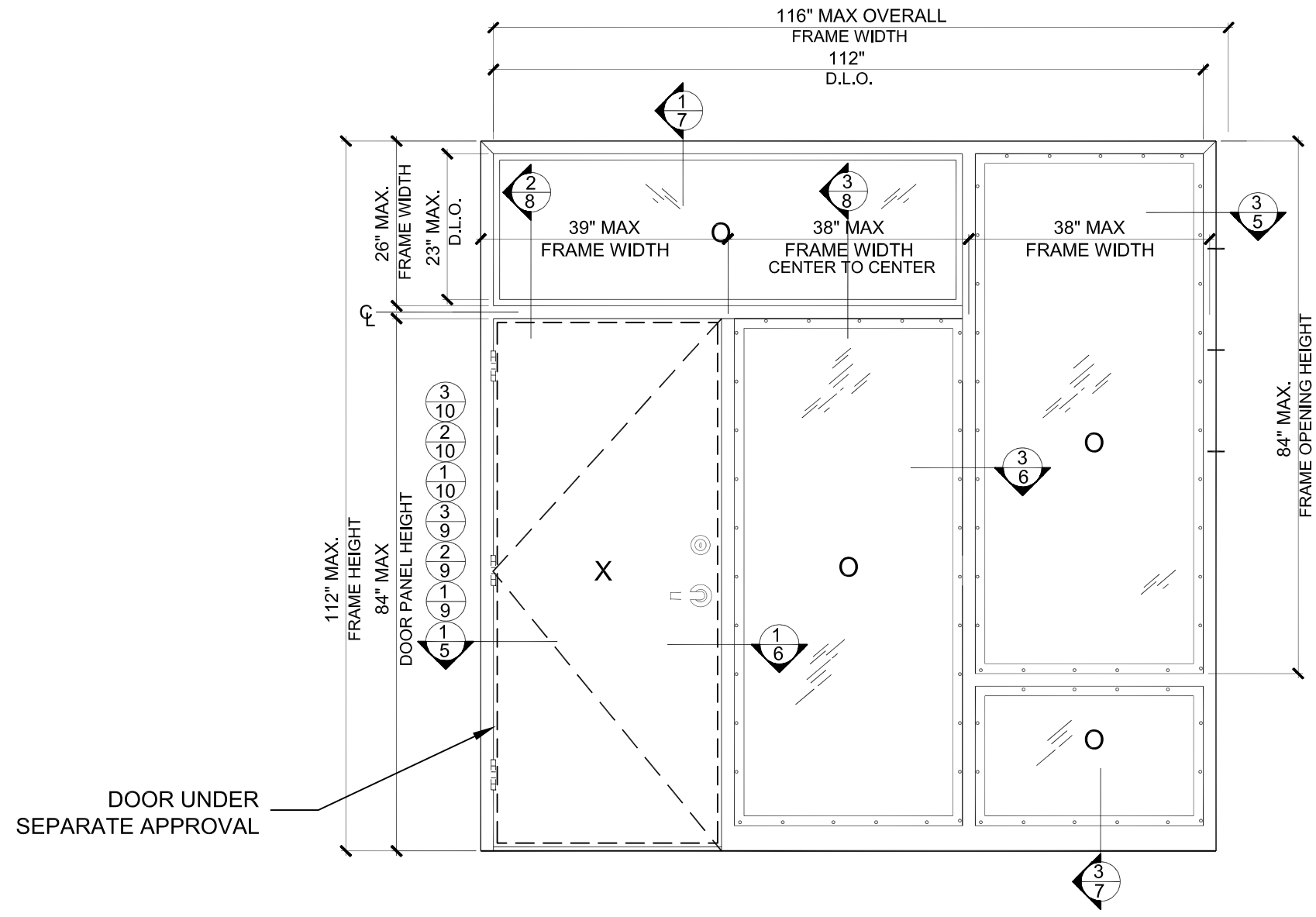
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"N" SERIES COMMERCIAL OUTSWING STEEL DOOR W/TRANSOM & SIDELITE (LMI)



DOOR UNDER SEPARATE APPROVAL

"N" SIDELITE & TRANSOM

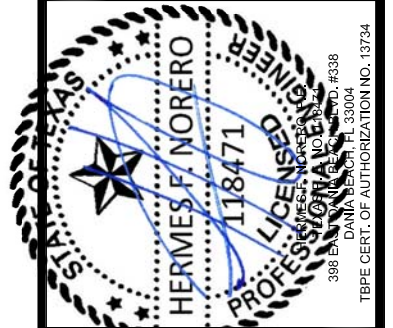
OVERALL FRAME SIZE		TRANSOM D.L.O		SIDELITE (REC) D.L.O		SIDELITE (SQU) D.L.O		DESIGN PRESSURE (PSF)	
WIDTH	HEIGHT	WIDTH	HEIGHT	WIDTH	HEIGHT	WIDTH	HEIGHT	POSITIVE	NEGATIVE
116.00"	112.00"	74.00"	23.00"	34.75"	78.75"	34.75"	34.75"	+65.0	-65.0



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INSTALLATION & GENERAL NOTES
PREPARED BY:
BUILDING DROPS, INC.
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SCALE: NTS

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TYPICAL ANCHORS: (REFER TO ELEVATION FOR SPACING)

TYPE A 3/8" DIA. DYNABOLT SLEEVE ANCHOR BY "ITW"
 DIRECTLY INTO $f_c=3000$ PSI CONCRETE, 1-1/2" MIN. EMBED
 DIRECTLY INTO GROUT FILLED CONCRETE BLOCK, 1-1/2" MIN. EMBED
 MIN. EDGE DIST 2-1/2"
 MIN. SPACING 4-1/2"

TYPE B 3/8" POWER-BOLT BY "POWERS"
 DIRECTLY INTO $f_c=3000$ PSI CONCRETE, 2" MIN. EMBED
 DIRECTLY INTO GROUT FILLED/HOLLOW CONCRETE BLOCK, 1-1/4" MIN. EMBED
 MIN. EDGE DIST 3-3/4"
 MIN. SPACING 4-1/2"

TYPE C 5/16" DIA. SMS OR MACHINE BOLTS (MIN. GRADE 5 CRS) OR ST/ST
 STEEL : $F_y = 36$ KSI MIN.
 INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICK.)
 ALUMINUM : 6063-T6 MIN.
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

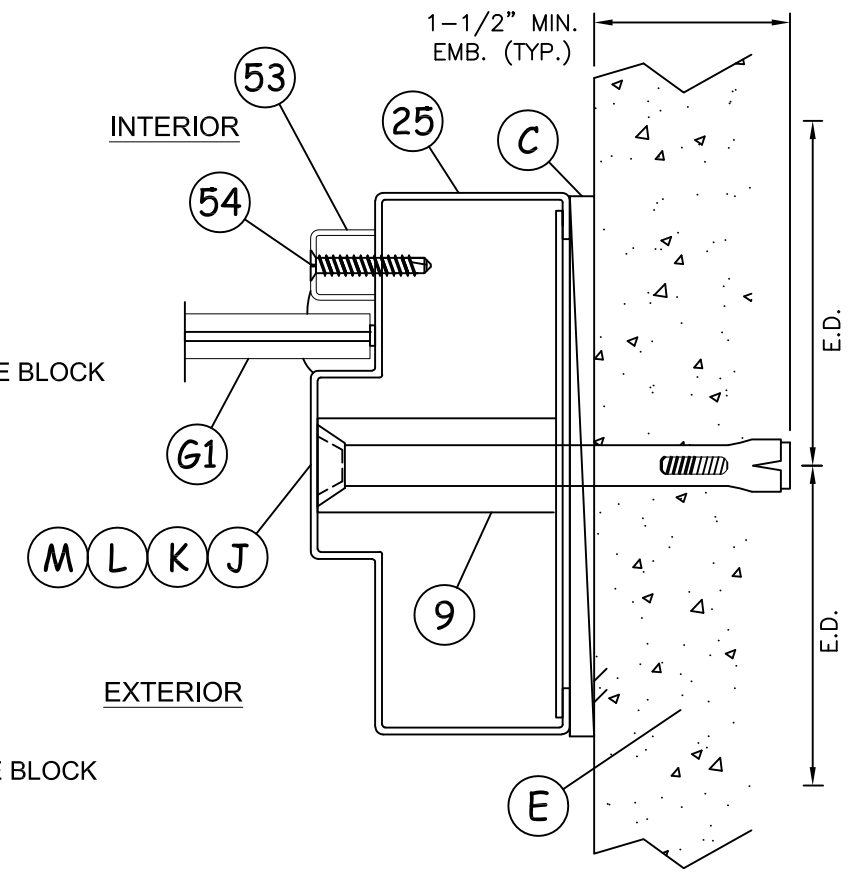
SEALANT:
 ALL FRAME JOINTS AND CORNERS TO BE SEALED WITH SILICONE AT PERIMETER

TYPE F 3/8" DIA. HLC SLEEVE ANCHOR BY "HILTI"
 DIRECTLY INTO $f_c=3000$ PSI CONCRETE
 MIN. EMBED. 1-3/8"
 MIN. EDGE DIST 3-1/4"
 MIN. SPACING 4-1/2"

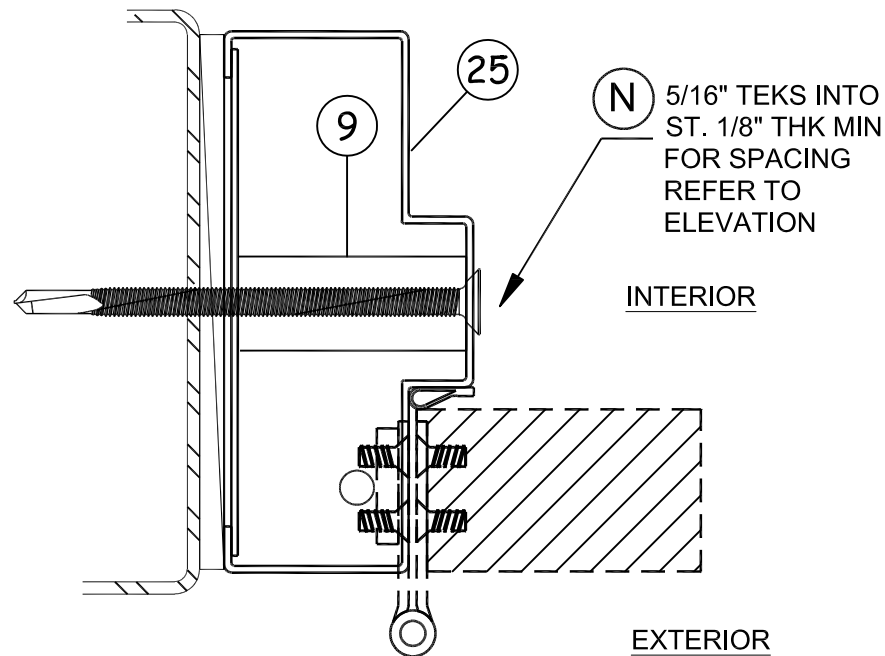
TYPE F1 3/8" DIA. HLC SLEEVE ANCHOR BY "HILTI"
 DIRECTLY INTO GROUT FILLED/HOLLOW CONCRETE BLOCK
 MIN. EMBED. 1-3/8"
 MIN. EDGE DIST 3-1/2"
 MIN. SPACING 4-1/2"

TYPE G 3/8" DIA. LOK BOLT BY "POWERS"
 DIRECTLY INTO $f_c=3000$ PSI CONCRETE
 MIN. EMBED. 1-5/8"
 MIN. EDGE DIST 3-3/4"
 MIN. SPACING 4-1/2"

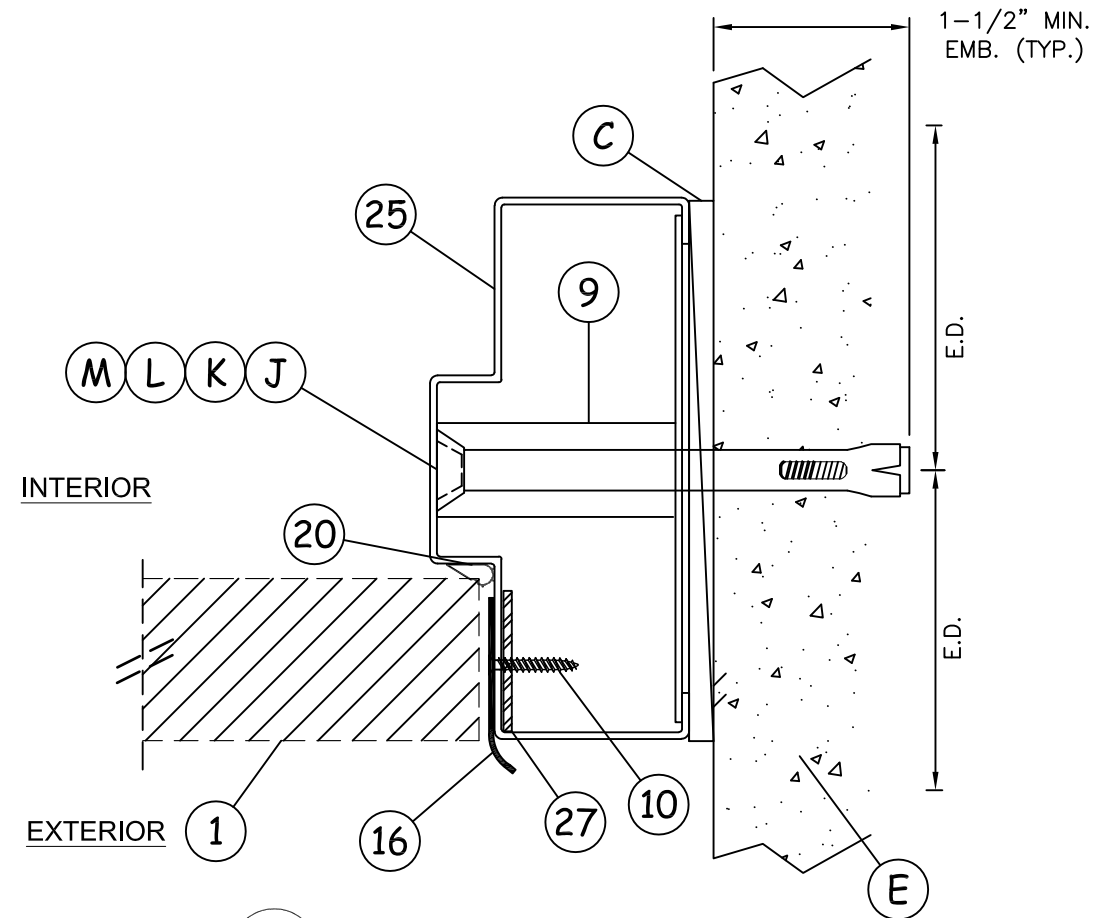
TYPE G1 3/8" DIA. LOK BOLT BY "POWERS"
 DIRECTLY INTO GROUT FILLED/HOLLOW CONCRETE BLOCK
 MIN. EMBED. 1-1/2"
 MIN. EDGE DIST 3-3/4"
 MIN. SPACING 4-1/2"



3 HORIZONTAL CROSS SECTION



1 ANCHOR OPTION



2 HORIZONTAL CROSS SECTION



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 3440 Standwood Blvd.
 Huntsville, AL 35811
 PH: (256) 851-6670

TITLE: "N" SERIES COMMERCIAL
 OUTSWING STEEL DOOR

HORIZONTAL
 SECTIONS

PREPARED BY:
 BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478 FX: (954) 744-4738

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NO.	DESCRIPTION	BY	DATE



DATE: 02.06.17
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 SCALE: NTS

DWG #: MDI009

SHEET: 5 OF 16

2/7/2017 9:58 AM

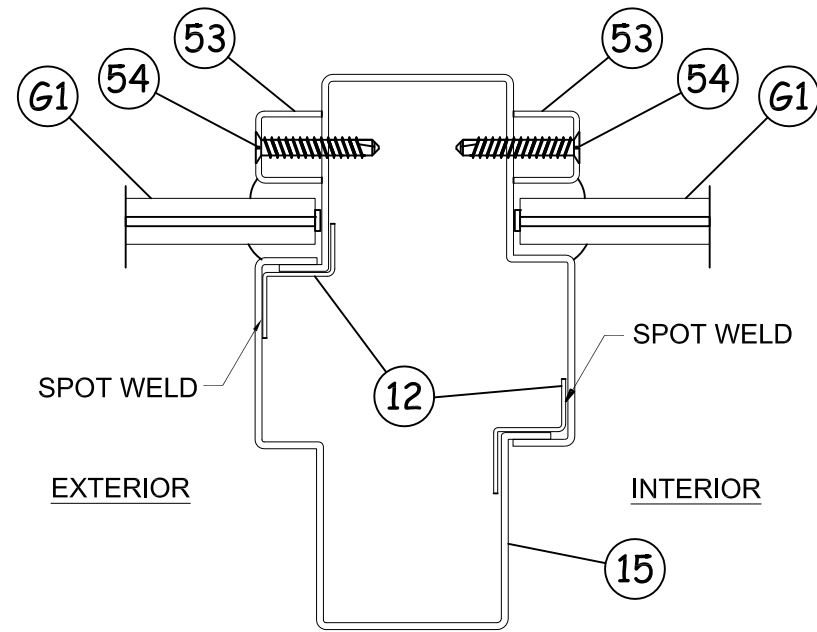
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TITLE: "N" SERIES COMMERCIAL
OUTSWING STEEL DOOR

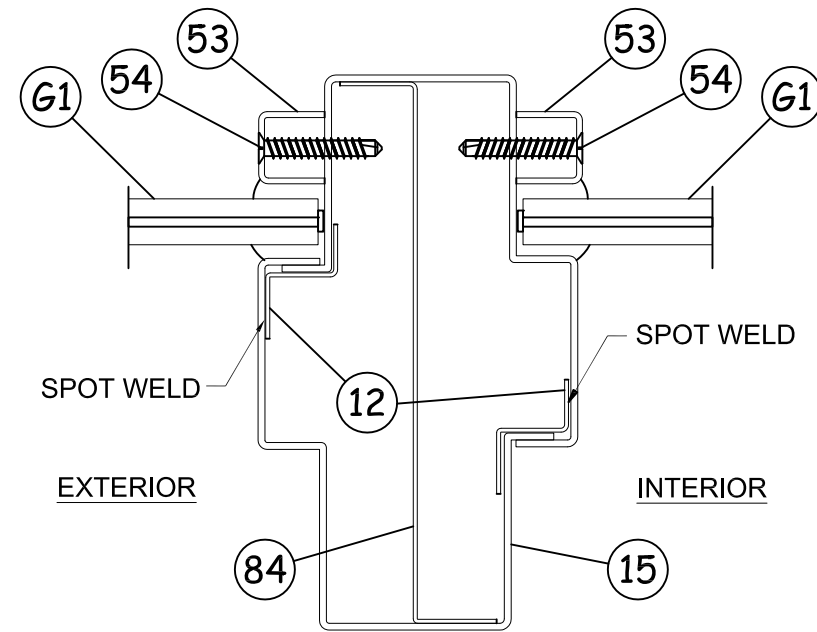
HORIZONTAL SECTIONS

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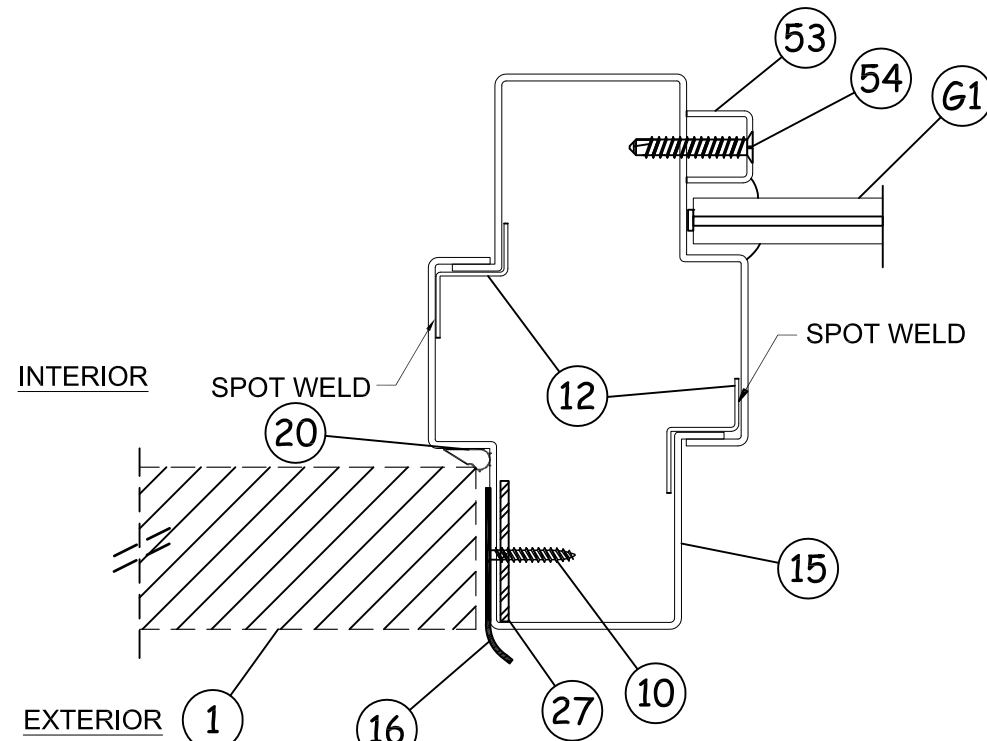
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
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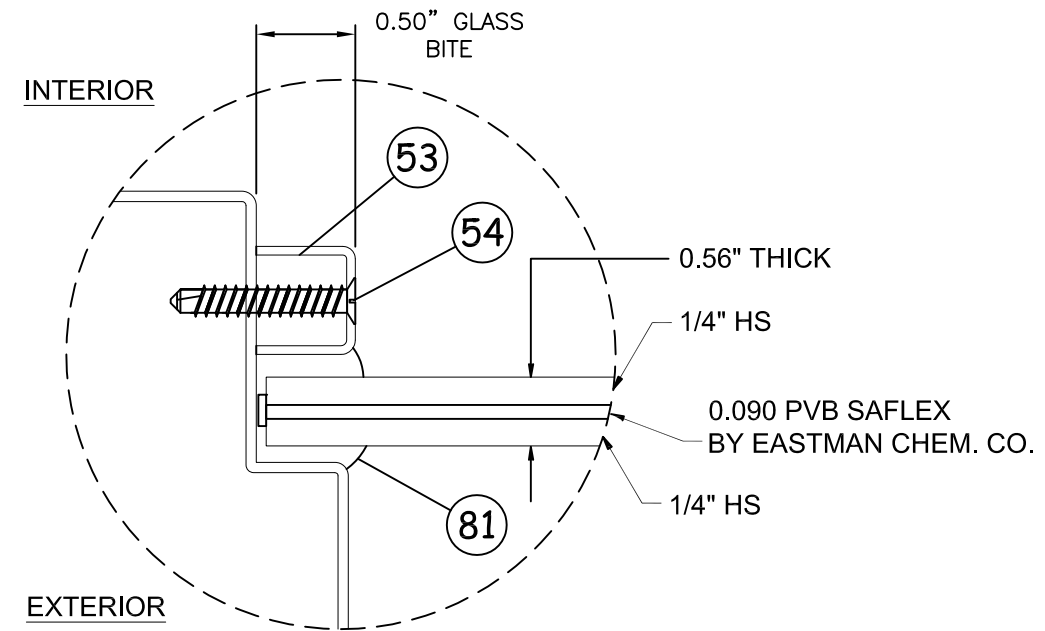
2 HORIZONTAL CROSS SECTION
6



3 HORIZONTAL CROSS SECTION
6



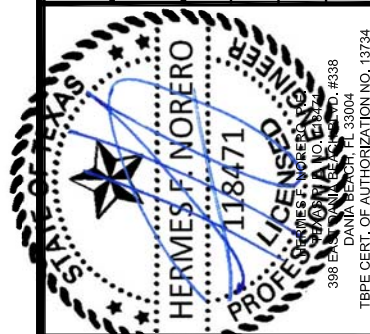
1 HORIZONTAL CROSS SECTION
6



G1 GLAZING DETAIL
9/16" Monolithic glass
Produced by Old Castle

REVISIONS

NO.	DESCRIPTION	BY	DATE



DATE:	02.06.17
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SCALE:	NTS

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SHEET: **6 OF 16**

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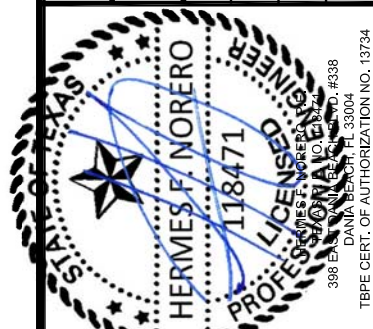
TITLE: "N" SERIES COMMERCIAL
OUTSWING STEEL DOOR

VERTICAL SECTIONS

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DANIA BEACH, FL 33004
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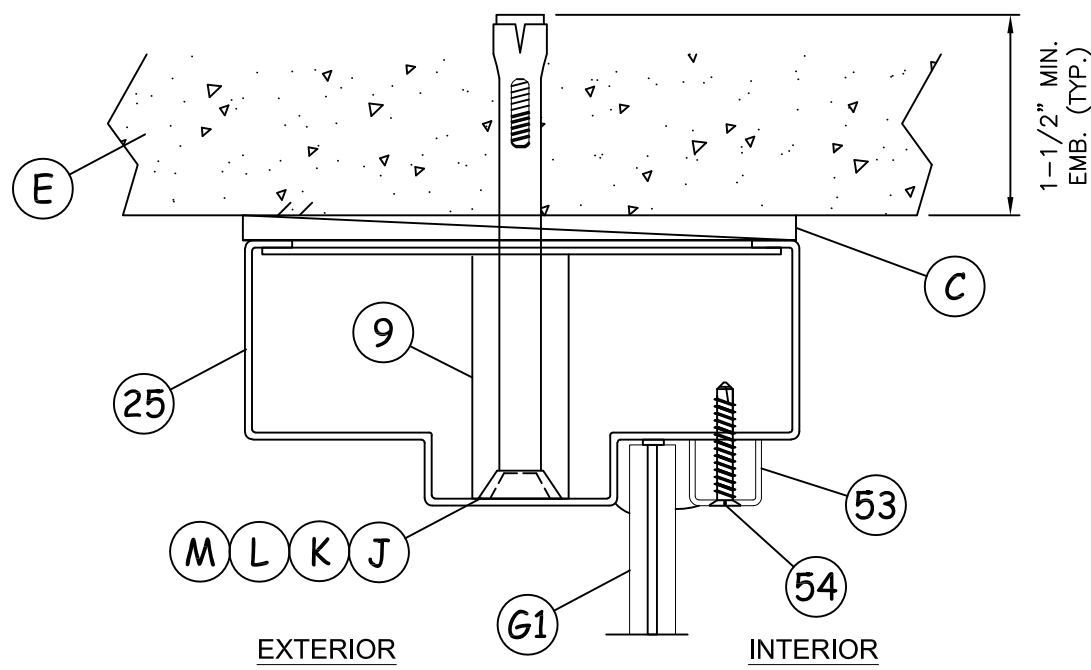
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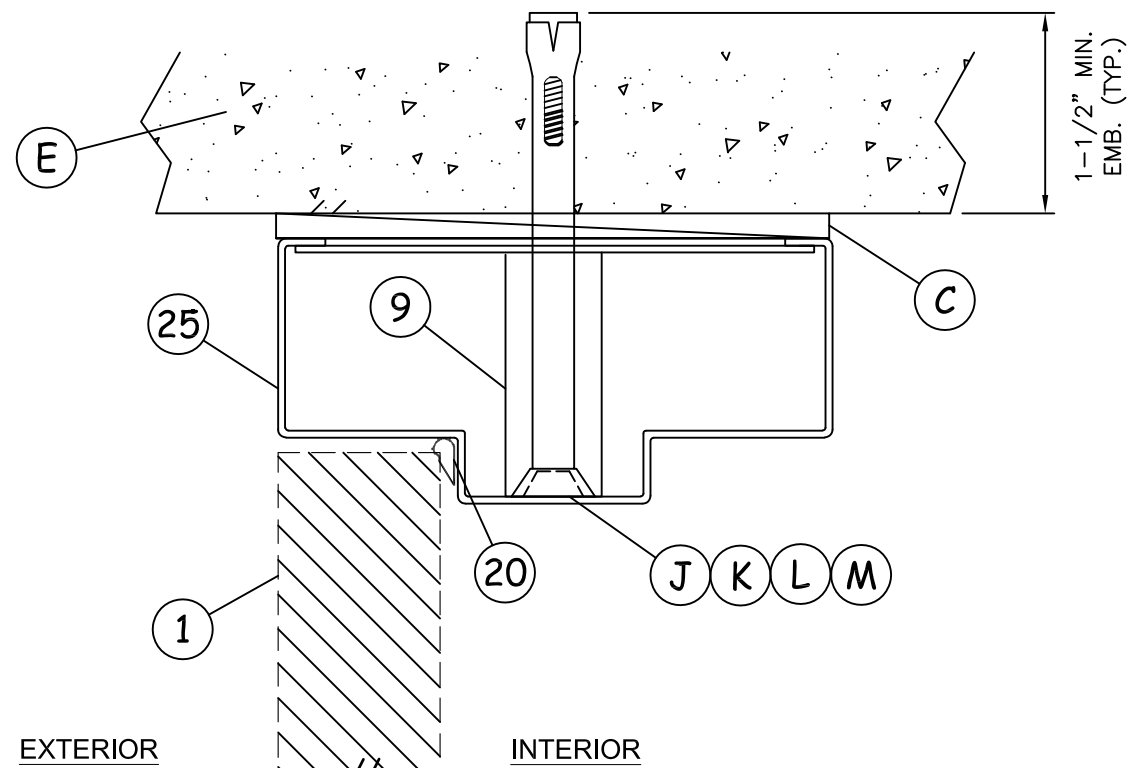
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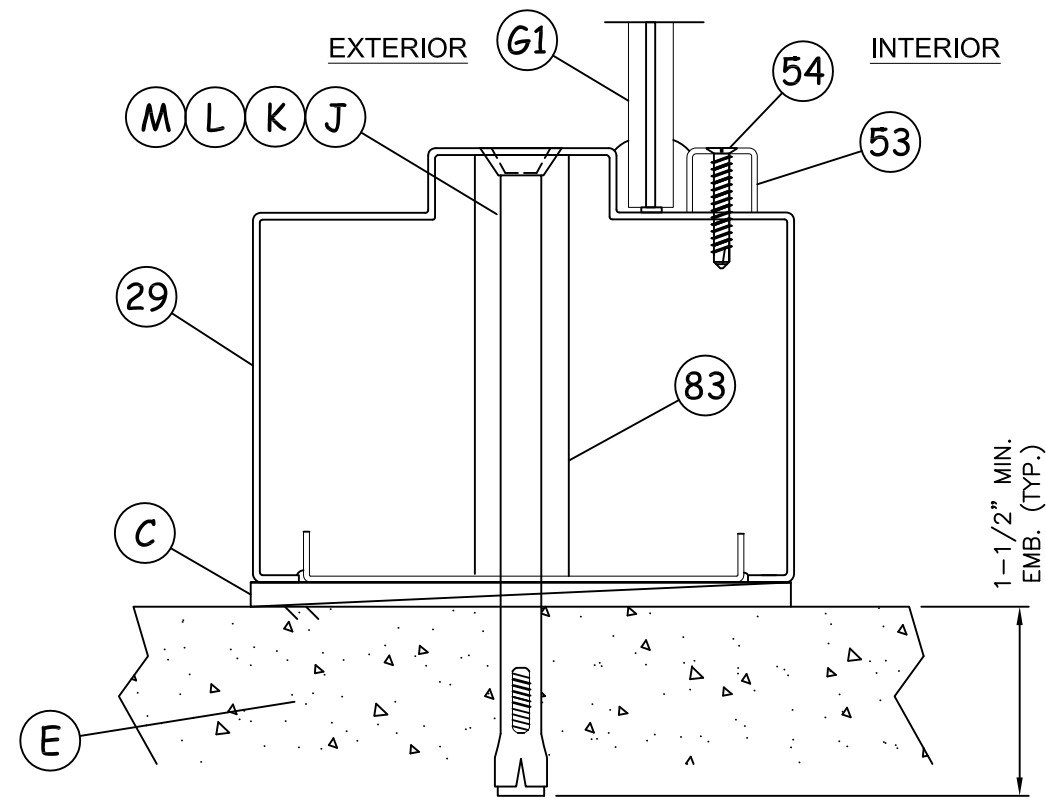
SHEET: **7 OF 16**



1 VERTICAL CROSS SECTION
7 W/ 2" FRAME



2 VERTICAL CROSS SECTION
7 W/ 2" FRAME



3 VERTICAL CROSS SECTION
7

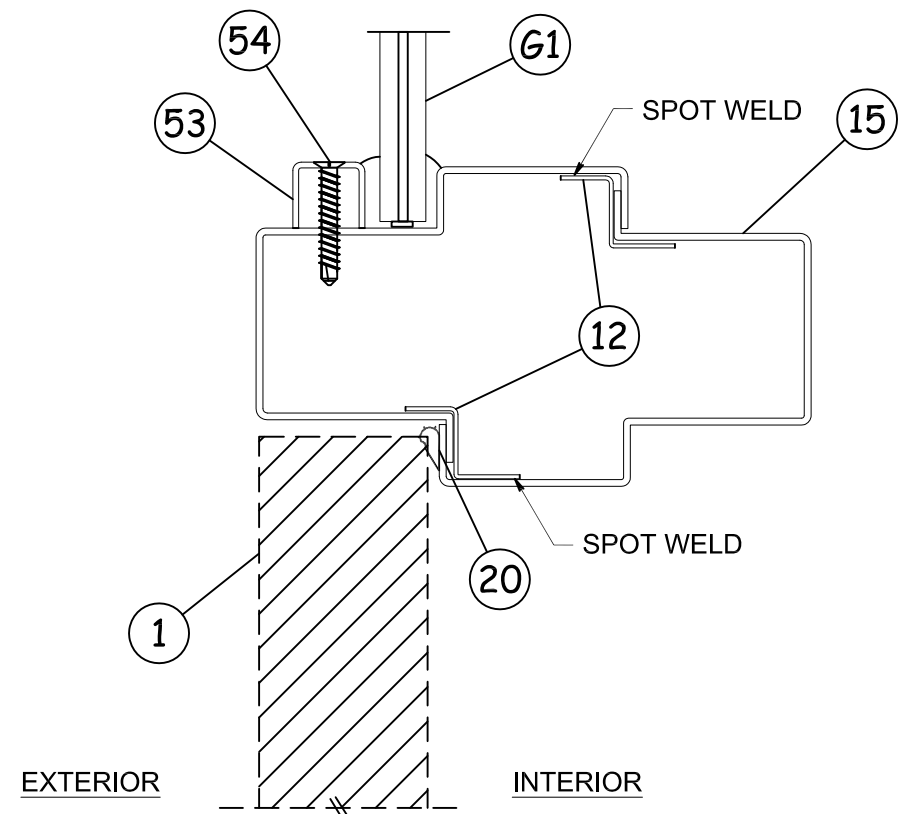


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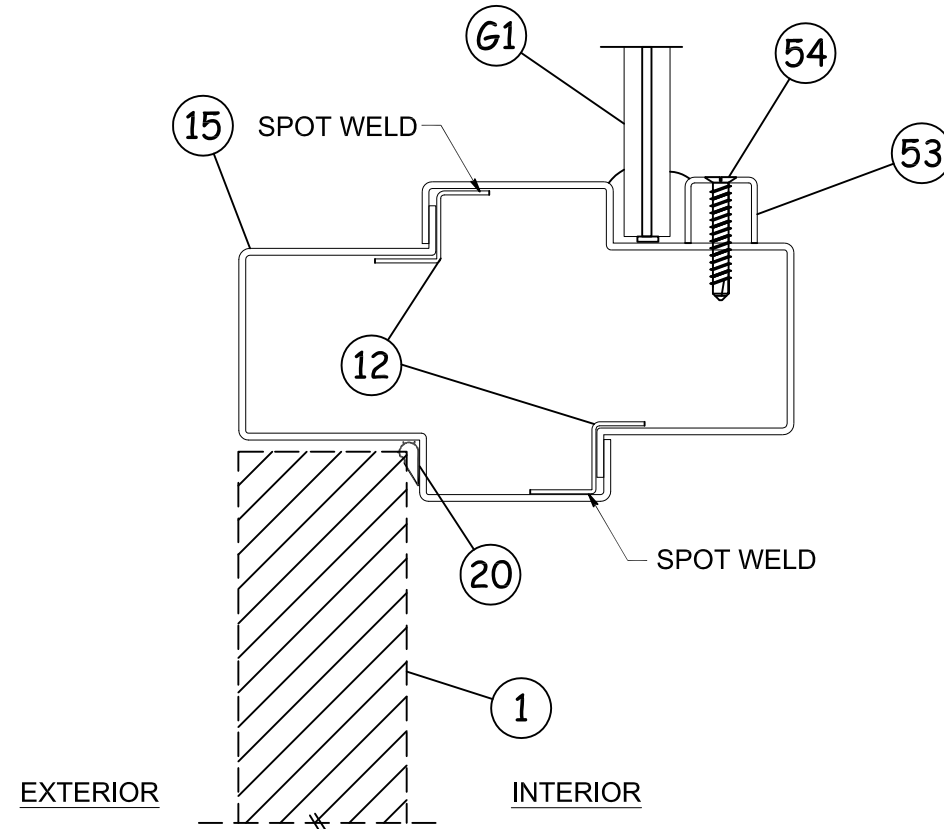
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OUTSWING STEEL DOOR

VERTICAL SECTIONS

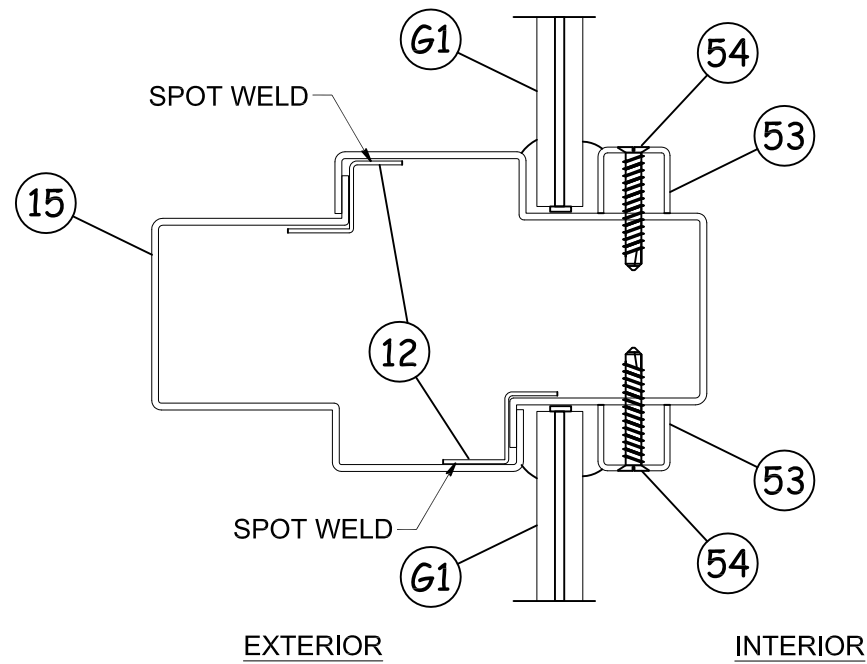
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1
8 VERTICAL CROSS SECTION



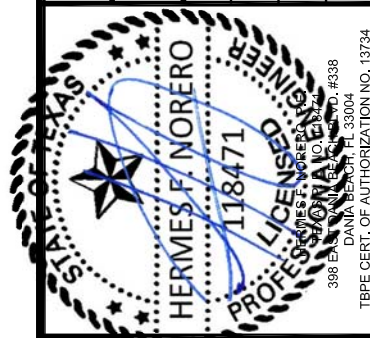
2
8 VERTICAL CROSS SECTION



3
8 VERTICAL CROSS SECTION

REVISIONS

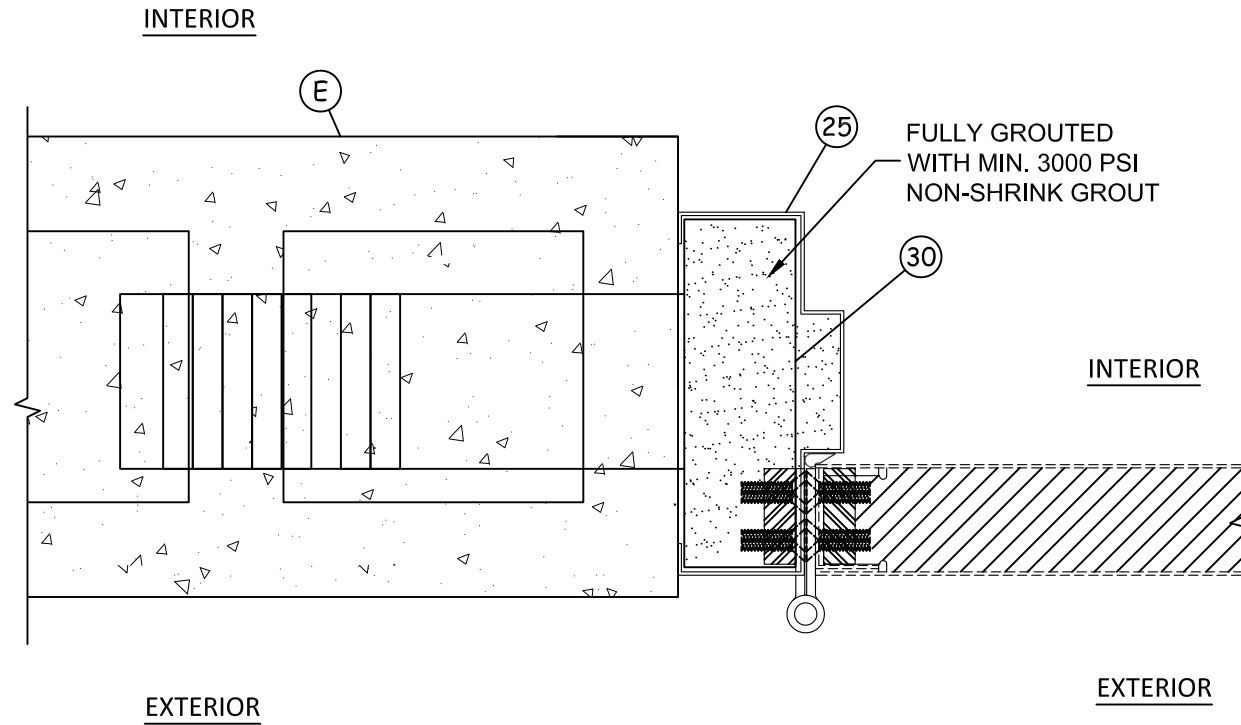
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SCALE: NTS

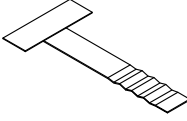
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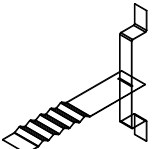
SHEET: 8 OF 16

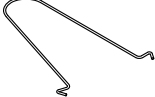


2 HORIZONTAL CROSS SECTION
9 STRAP ANCHOR (PF-2)

TYPICAL ANCHORS @ JAMB: (REFER TO ELEVATION FOR SPACING)

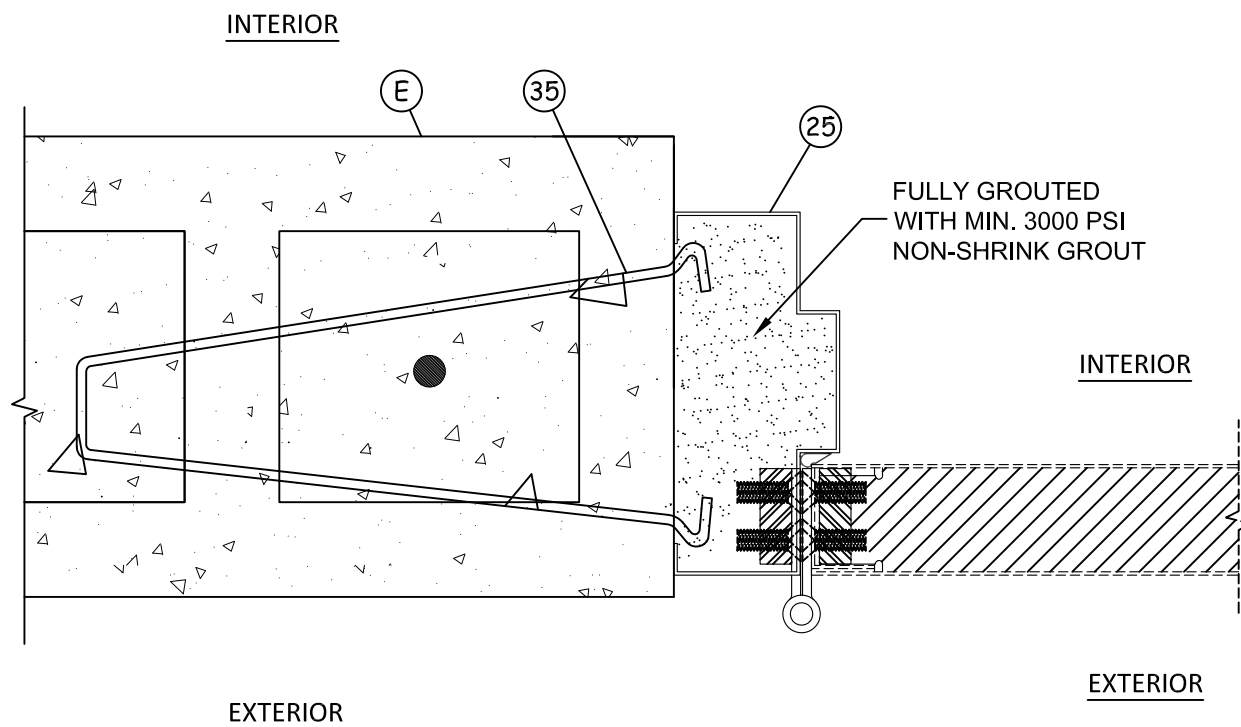
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TYPE I STRAP ANCHOR (PF-2) (Fy=60 KSI) MIN.
DIRECTLY INTO fc'=3000 PSI GROUT FILLED CONCRETE BLOCK
- 

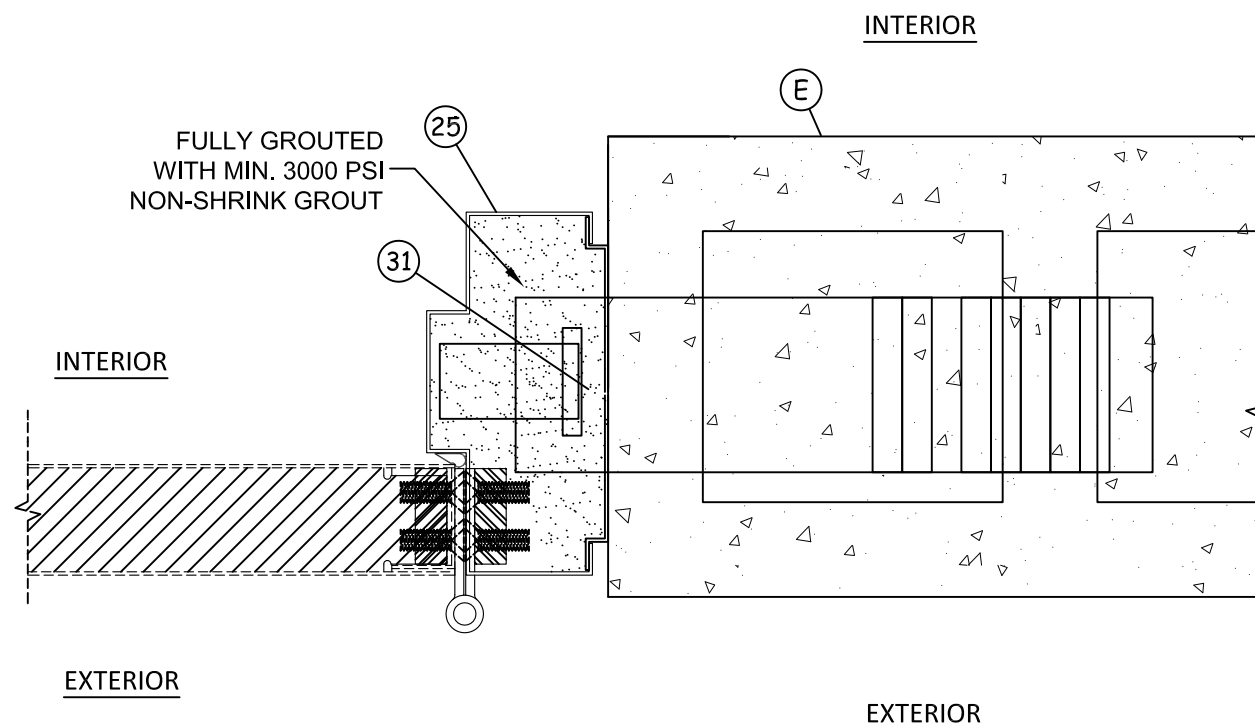
TYPE J STRAP ANCHOR (PS-241) (Fy=60 KSI) MIN.
DIRECTLY INTO fc'=3000 PSI GROUT FILLED CONCRETE BLOCK
- 

TYPE K WIRE ANCHOR (PF-2) (Fy=60KSI) MIN.
DIRECTLY INTO fc'=3000 PSI CONCRETE, 1-1/2" MIN. EMBED
DIRECTLY INTO GROUT FILLED/HOLLOW CONCRETE BLOCK, 1-1/4" MIN. EMBED

NOTE:
HEAD & JAMBS TO BE FULLY GOUTED WITH MIN. 3000 PSI NON-SHRINK GROUT



1 HORIZONTAL CROSS SECTION
9 WIRE ANCHOR



3 HORIZONTAL CROSS SECTION
9 STRAP ANCHOR (PS-241)

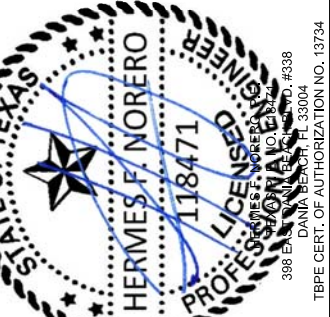
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OUTSWING STEEL DOOR

HORIZONTAL SECTIONS

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




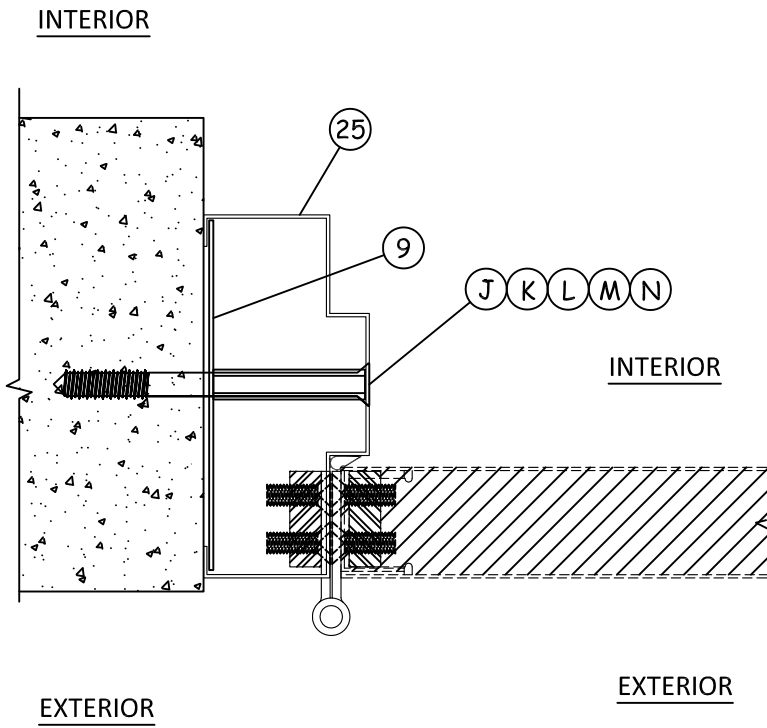
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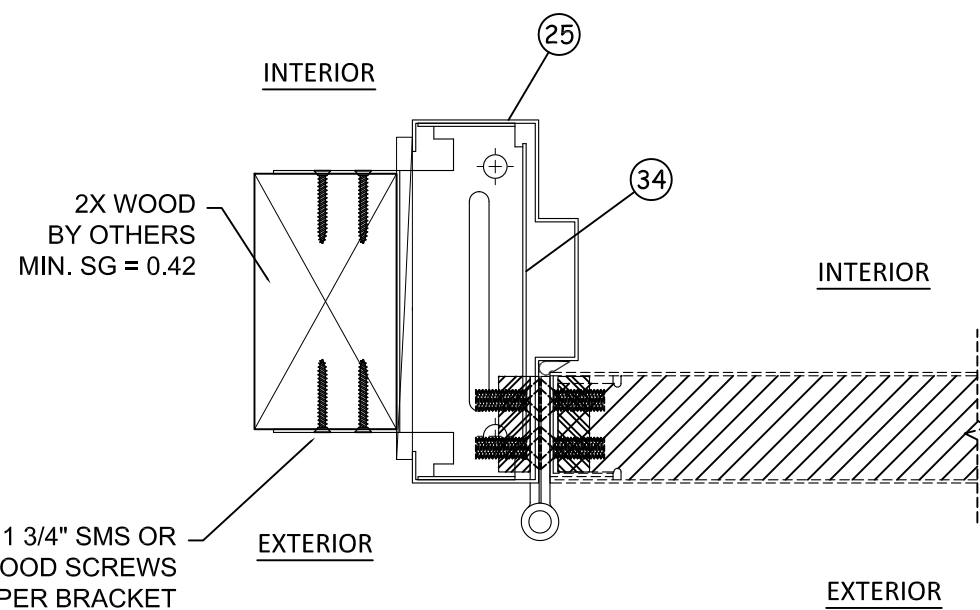
SHEET:
9 OF 16

TYPICAL ANCHORS @ JAMB: (REFER TO ELEVATION FOR SPACING)

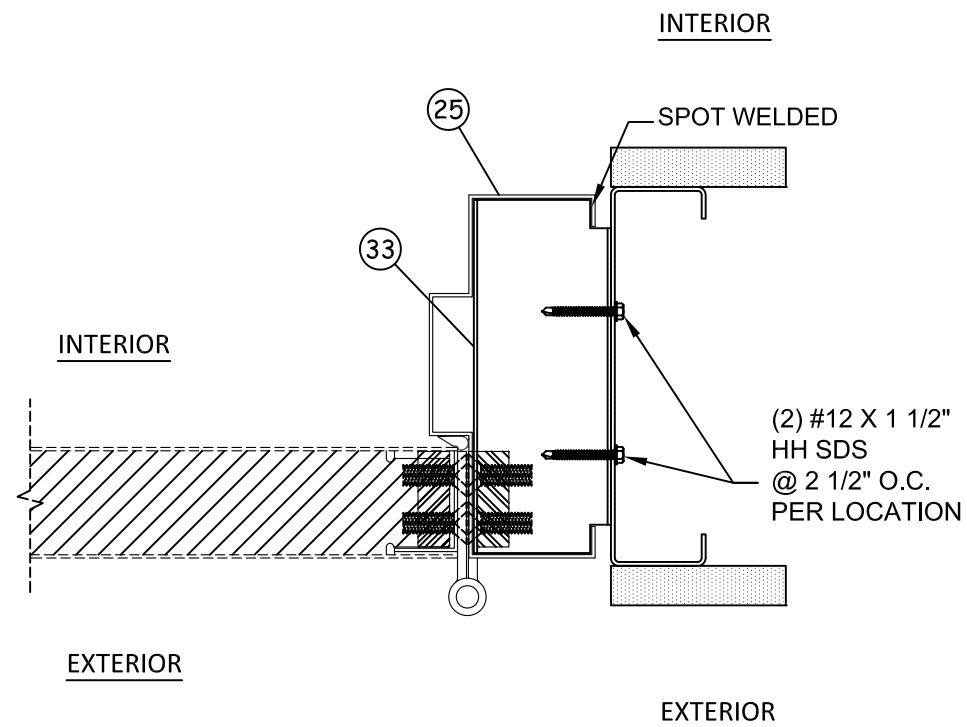
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TYPE L TUBE ANCHOR (PF-10)
 SEE ELEVATIONS FOR ANCHOR BRACKET LAYOUT
 (9)
- 
TYPE M Z ANCHOR (PF-9)
 SEE ELEVATIONS FOR ANCHOR BRACKET LAYOUT
 (33)
- 
TYPE N WOOD STUD ANCHOR (F-24)
 SEE ELEVATIONS FOR ANCHOR BRACKET LAYOUT
 (34)



2 HORIZONTAL CROSS SECTION
10 TUBE ANCHOR



1 HORIZONTAL CROSS SECTION
10 WOOD STUD ANCHOR



3 HORIZONTAL CROSS SECTION
10 Z ANCHOR

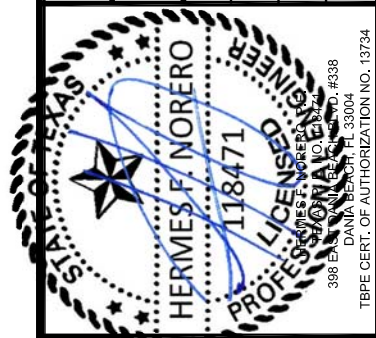
TITLE: "N" SERIES COMMERCIAL
OUTSWING STEEL DOOR

HORIZONTAL SECTIONS

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DANIA BEACH, FL 33004
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REVISIONS

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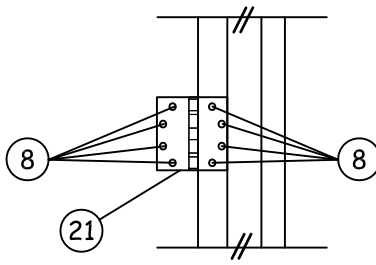
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TITLE: "N" SERIES COMMERCIAL
OUTSWING STEEL DOOR

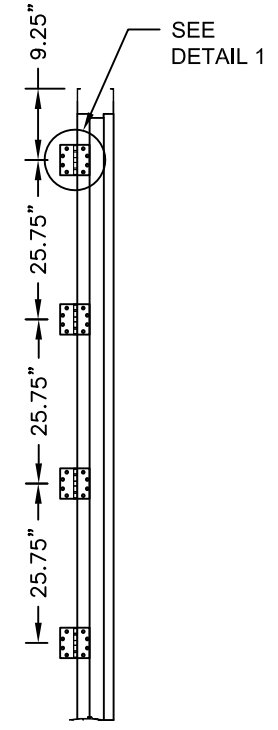
ANCHOR OPTIONS

PREPARED BY:

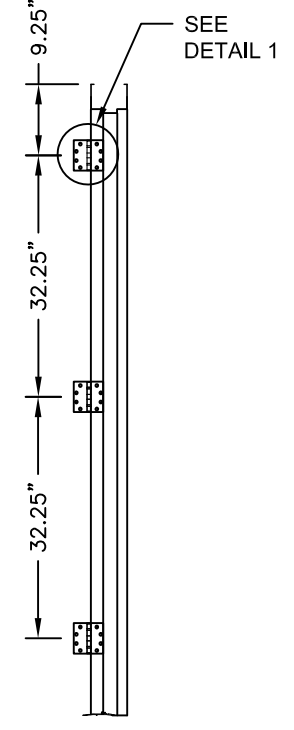
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738



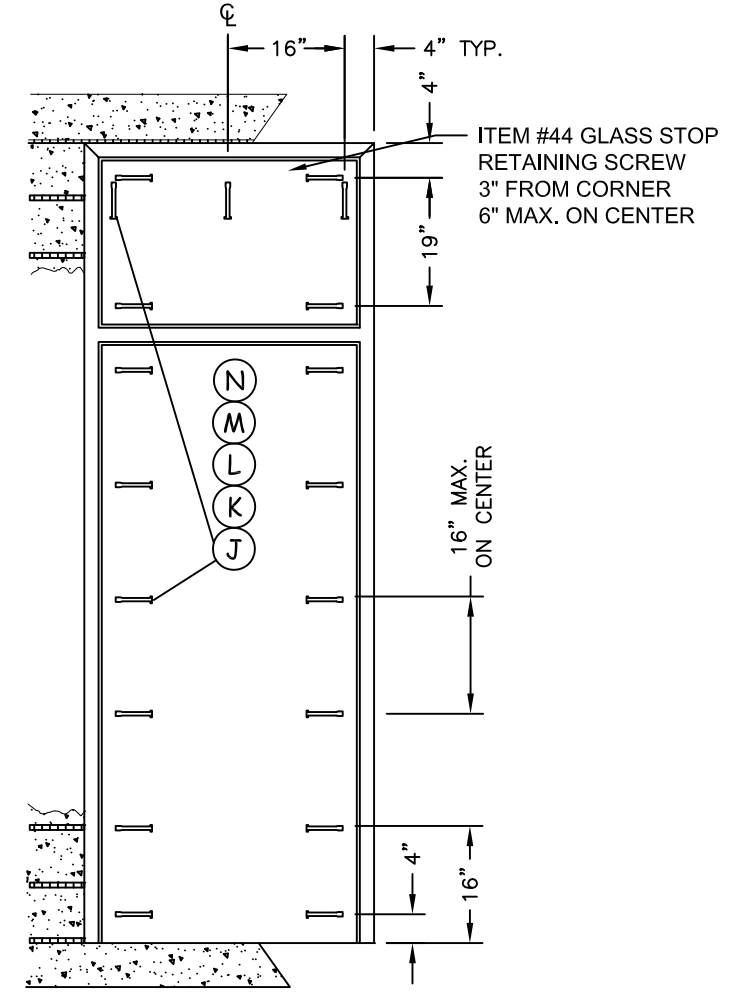
DETAIL 1



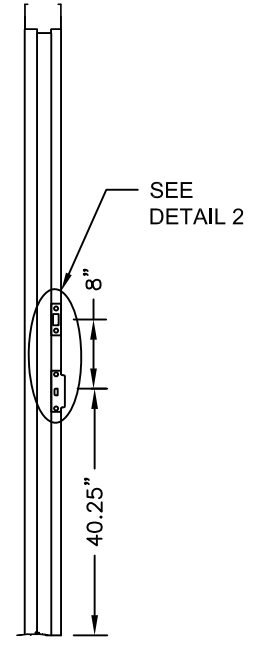
HINGE JAMB
4 HINGE OPTION
100" MAX. FRAME HEIGHT



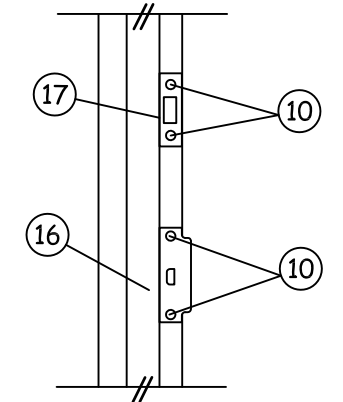
HINGE JAMB
3 HINGE OPTION
90" MAX. FRAME HEIGHT



FRAME ANCHORING
CONCRETE/MASONRY



STRIKE JAMB



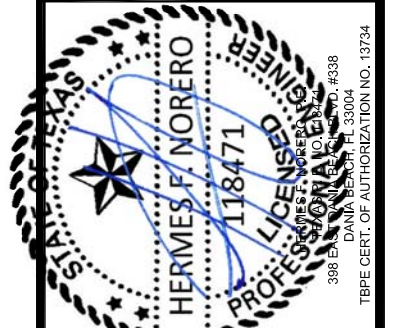
DETAIL 2

ANCHOR NOTES:

1. Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements. Min. edge distances shown in details are for Dynalbolt Sleeve Anchors. Adjust min. clearances for Tapper concrete screws as necessary.
2. Concrete screw locations at the centers may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" must be adjusted to maintain minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.

REVISIONS

NO.	DESCRIPTION	BY	DATE

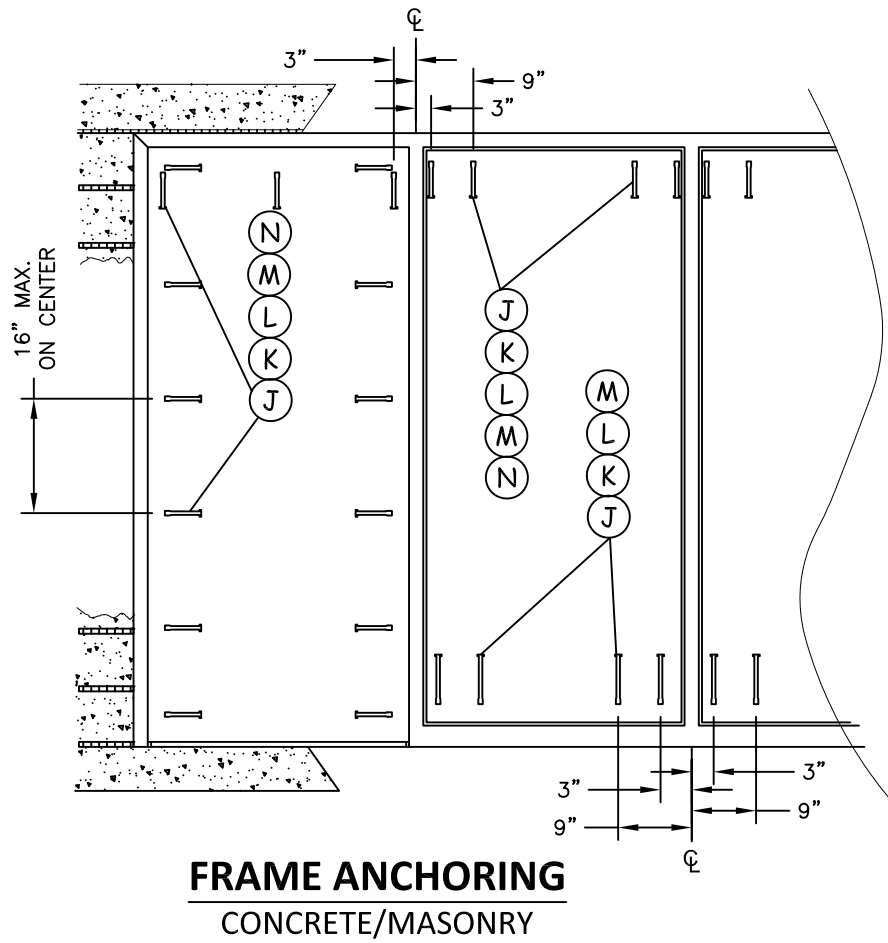


DATE: 02.06.17
DWN BY: LS
CHK BY: HFN
SCALE: NTS

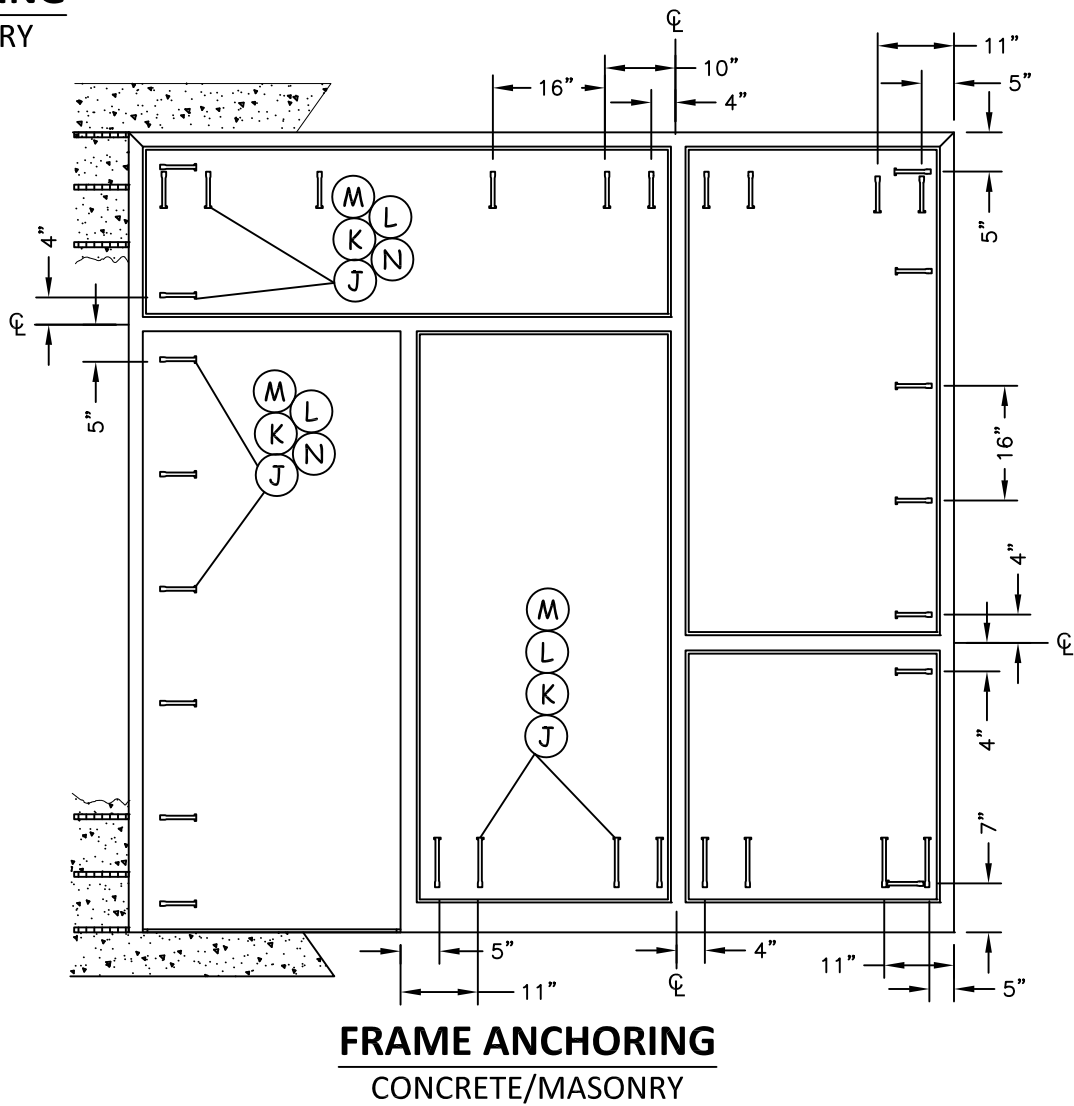
DWG #: **MDI009**
SHEET: **11 OF 16**

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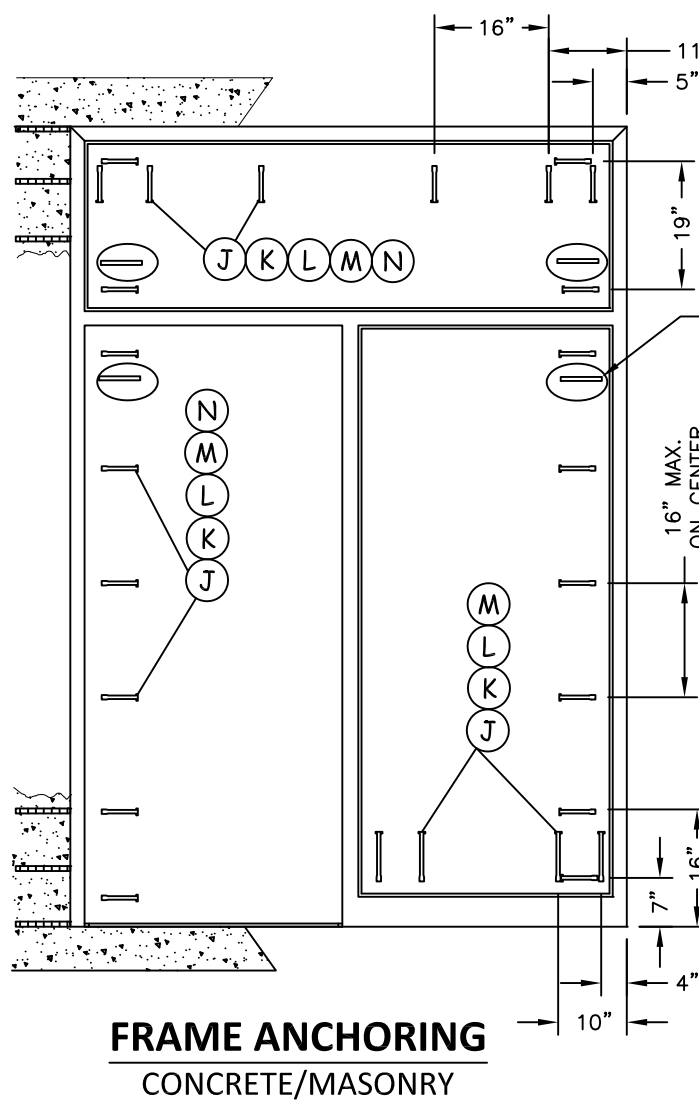


FRAME ANCHORING
CONCRETE/MASONRY



FRAME ANCHORING
CONCRETE/MASONRY

NOTE:
1. SEE SHEET 11 FOR HINGE AND JAMB DETAILS



FRAME ANCHORING
CONCRETE/MASONRY

ADD. ANCHORS REQUIRED WHEN ANCHOR INTO BLOCK



MESKER DOOR INC.
3440 Standwood Blvd.
Huntsville, AL 35811
PH: (256) 851-6670

TITLE: "N" SERIES COMMERCIAL
OUTSWING STEEL DOOR

ANCHOR OPTIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

NO.	DESCRIPTION	BY	DATE



DATE:
02.06.17

DWN BY:
LS

CHK BY:
HFN

SCALE:
NTS

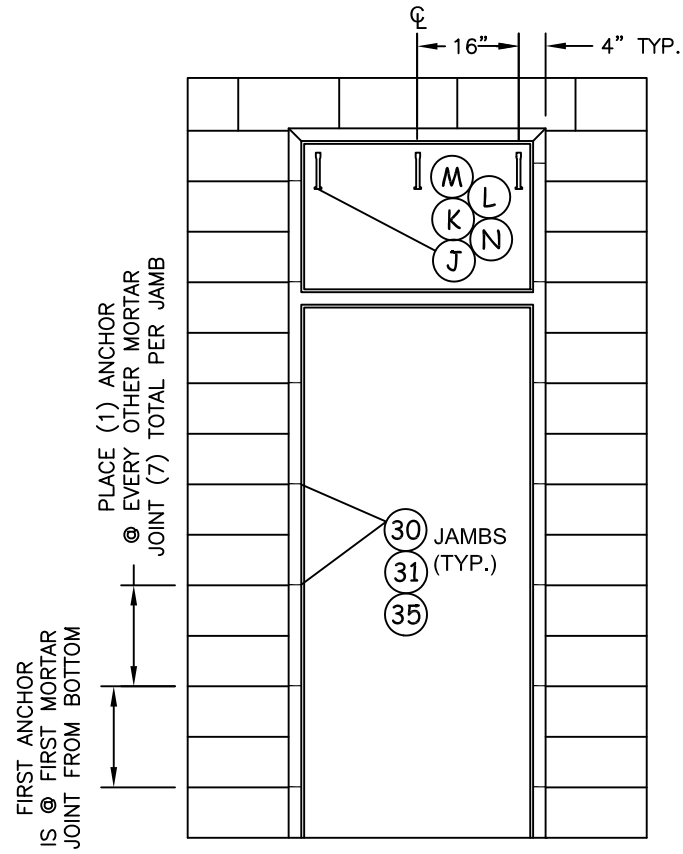
DWG #:
MDI009

SHEET:
12 OF 16

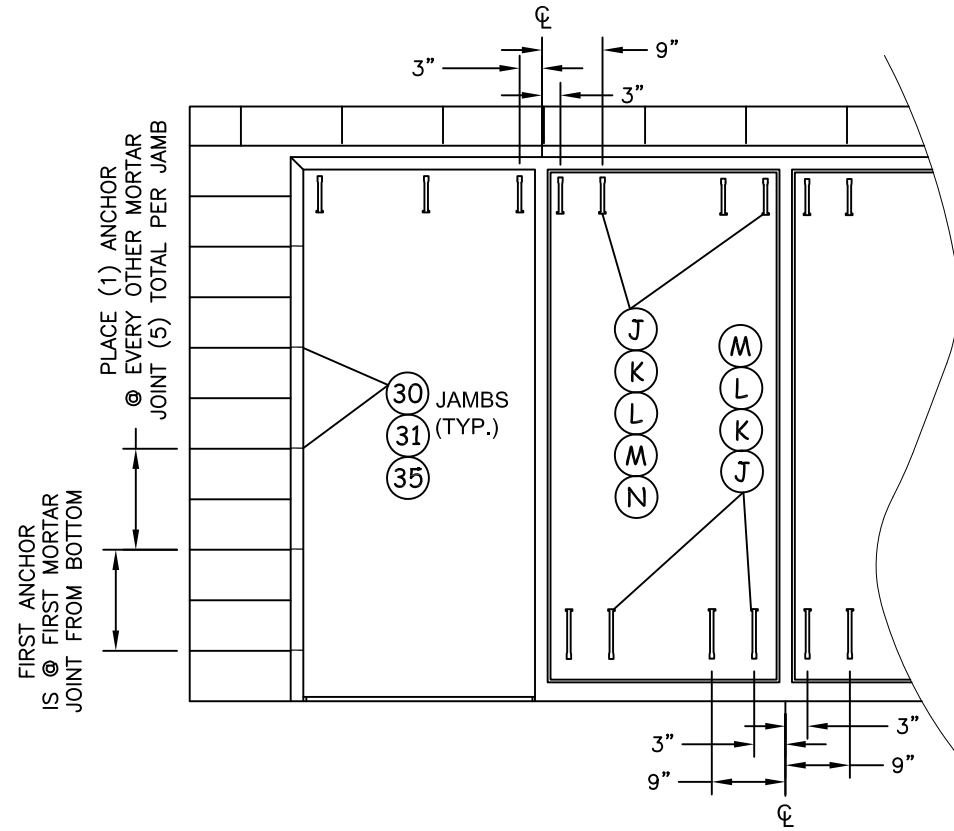
TITLE: "N" SERIES COMMERCIAL
OUTSWING STEEL DOOR

ANCHOR OPTIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

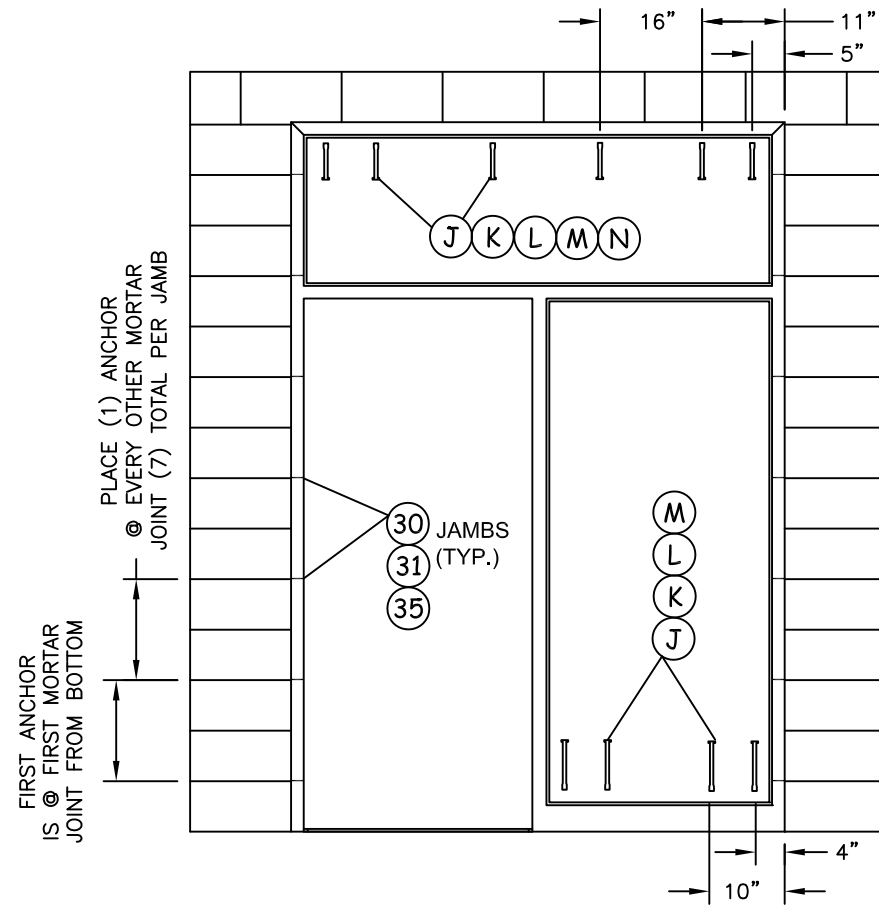


FRAME ANCHORING
T STRAP & WIRE ANCHOR

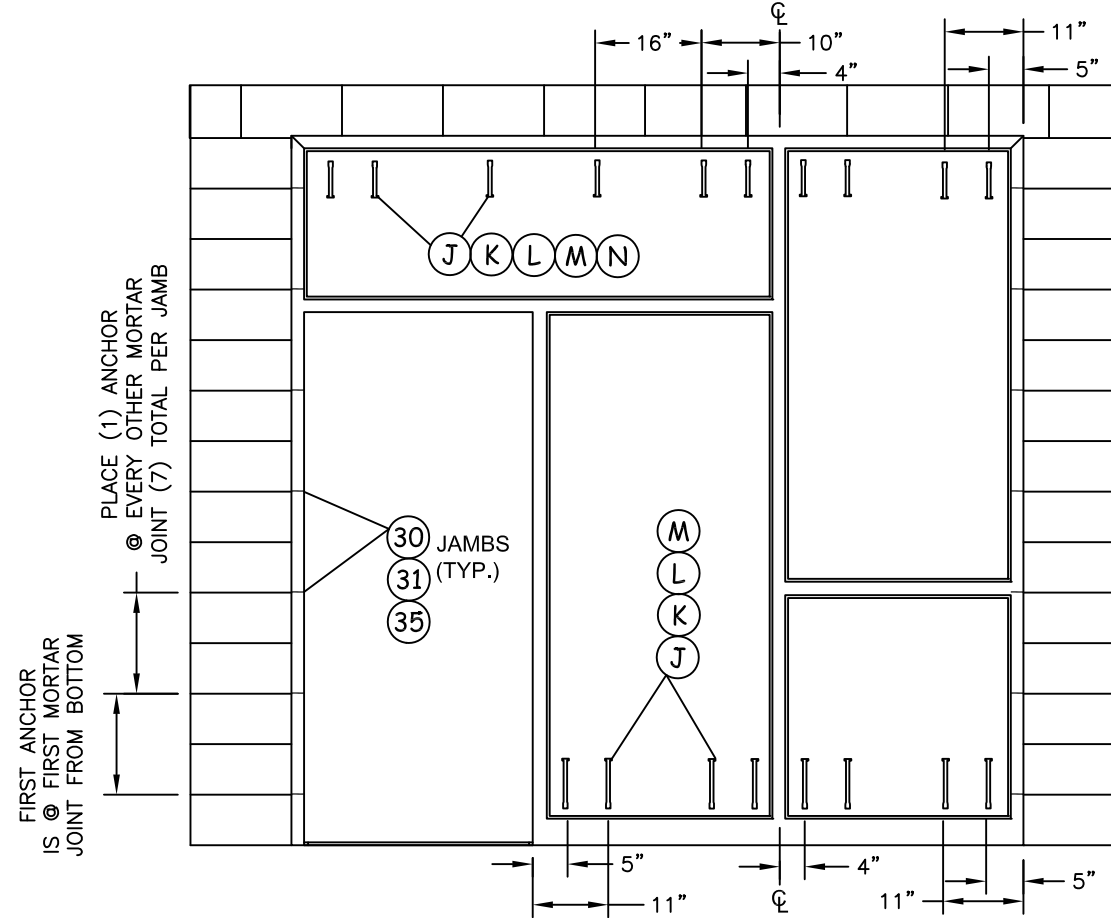


FRAME ANCHORING
T STRAP & WIRE ANCHOR

NOTE:
1. SEE SHEET 11 FOR HINGE
AND JAMB DETAILS



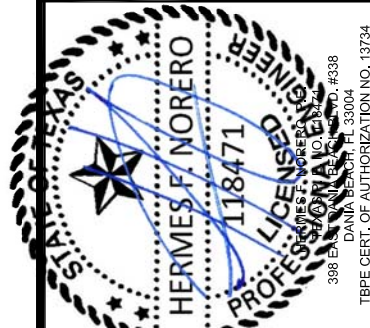
FRAME ANCHORING
T STRAP & WIRE ANCHOR



FRAME ANCHORING
T STRAP & WIRE ANCHOR

REVISIONS

NO.	DESCRIPTION	BY	DATE



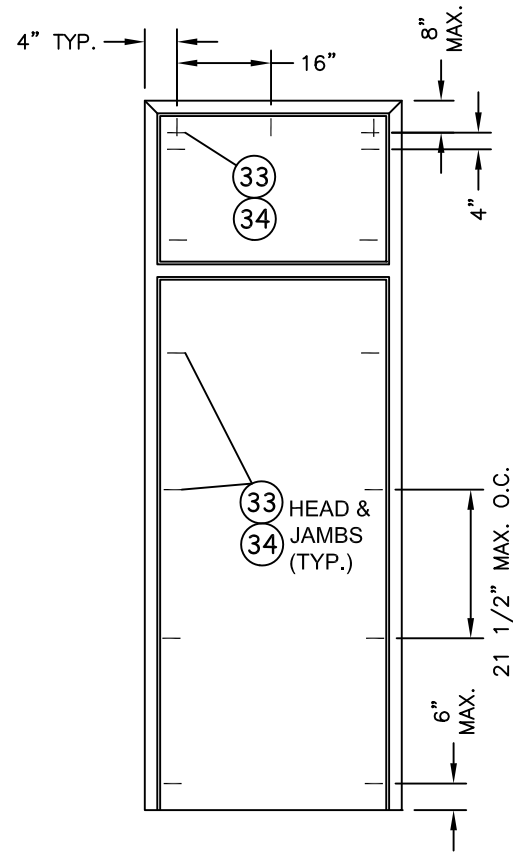
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DWN BY: LS
CHK BY: HFN
SCALE: NTS

DWG #: MDI009
SHEET: 13 OF 16

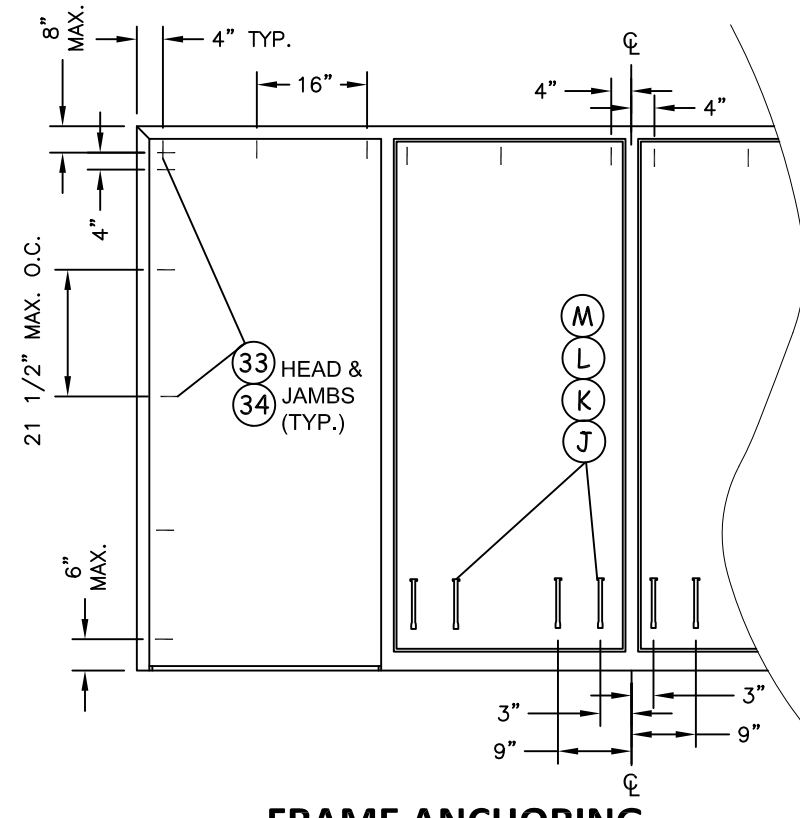
TITLE: "N" SERIES COMMERCIAL
OUTSWING STEEL DOOR

ANCHOR OPTIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738



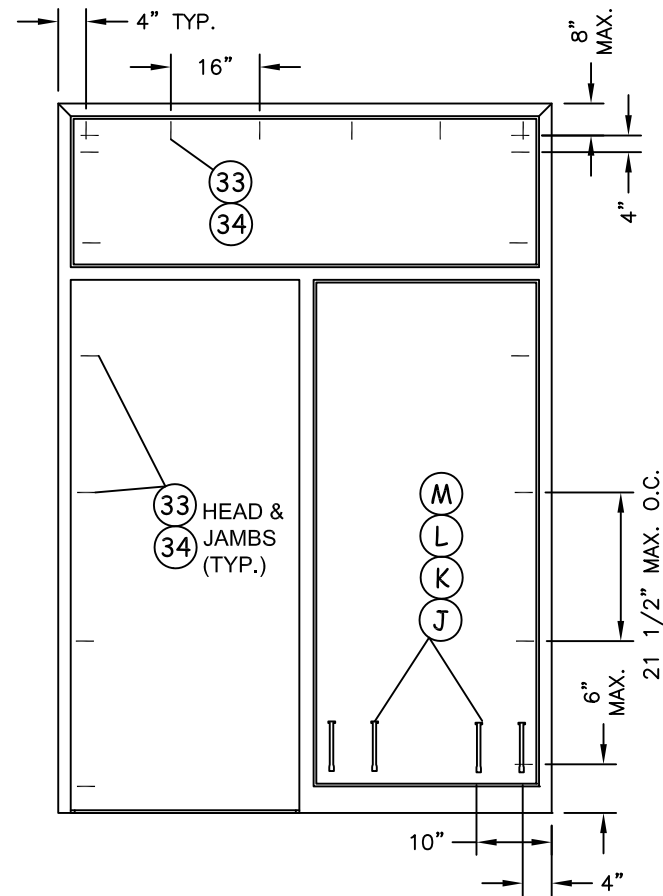
FRAME ANCHORING
WOOD STUD & Z ANCHOR



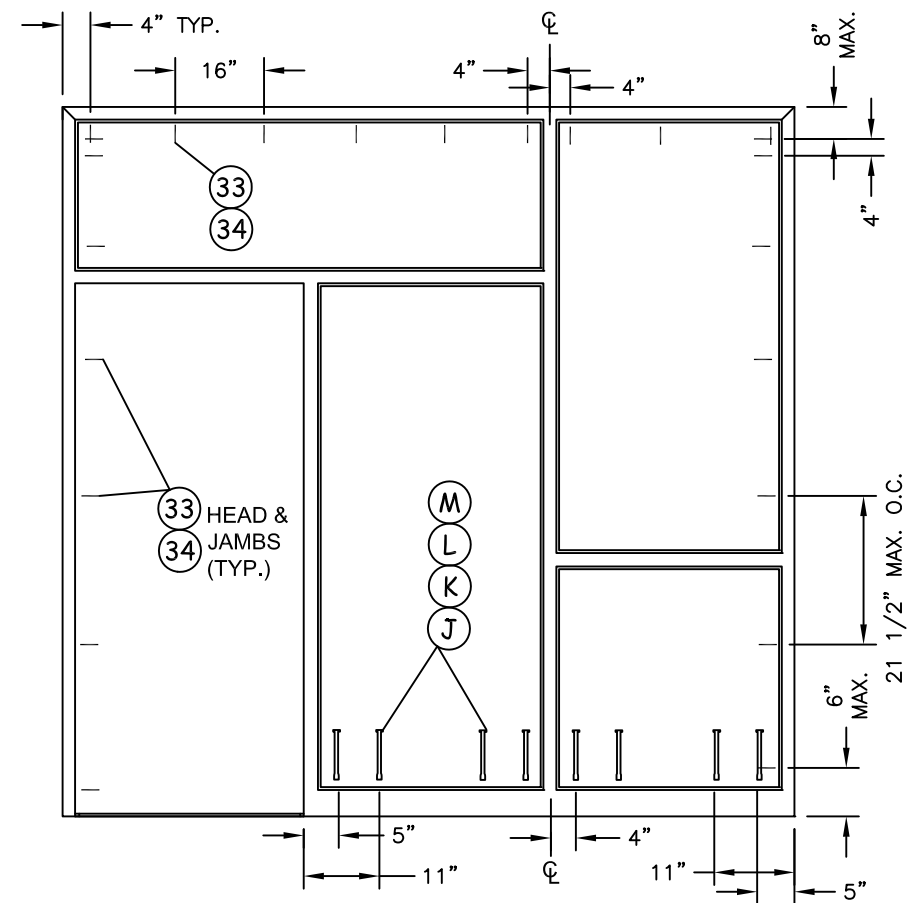
FRAME ANCHORING
WOOD STUD & Z ANCHOR

NOTE:

- SEE SHEET 11 FOR HINGE AND JAMB DETAILS



FRAME ANCHORING
WOOD STUD & Z ANCHOR



FRAME ANCHORING
WOOD STUD & Z ANCHOR

REVISIONS

NO.	DESCRIPTION	BY	DATE



DATE: 02.06.17	DWN BY: LS	CHK BY: HFN	SCALE: NTS
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DWG #:
MDI009
SHEET: **14 OF 16**

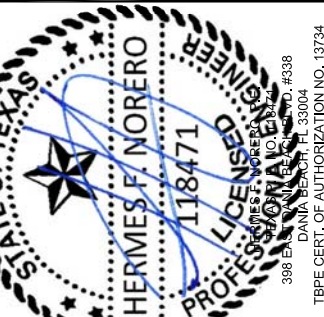
TITLE: "N" SERIES COMMERCIAL
OUTSWING STEEL DOOR

COMPONENTS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

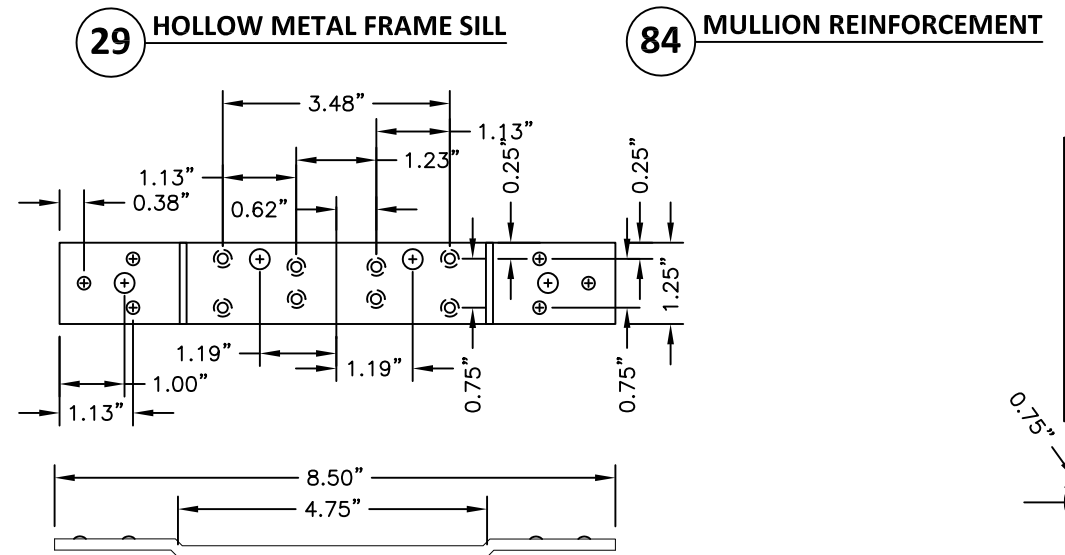
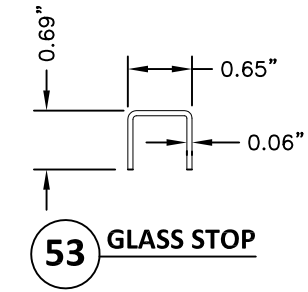
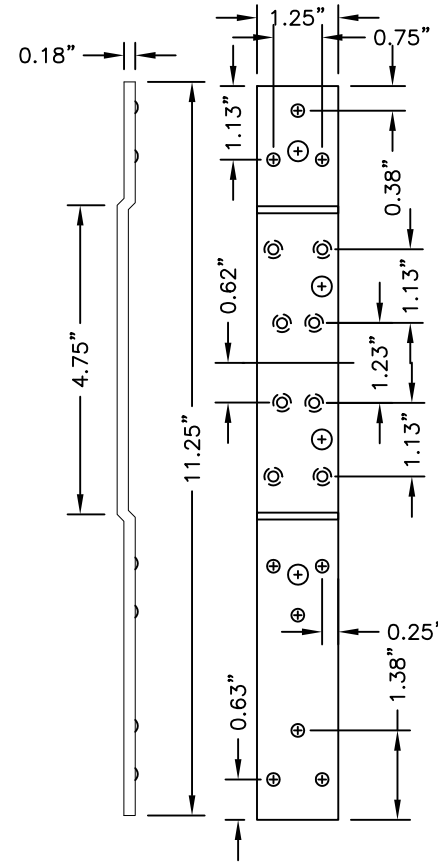
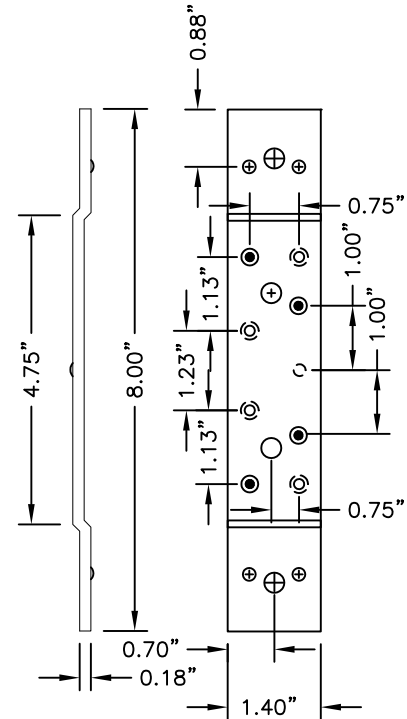
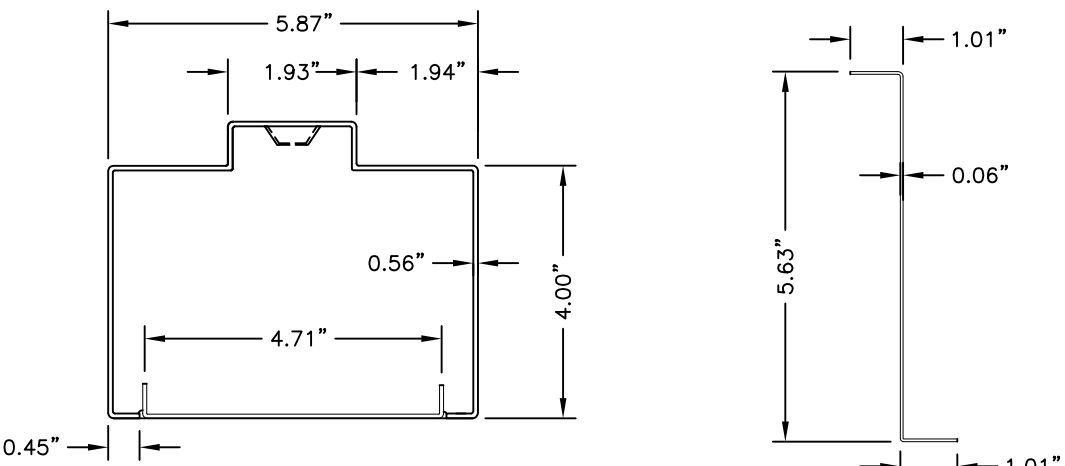
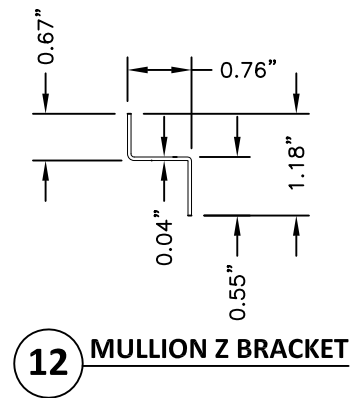
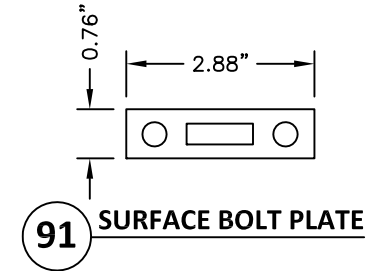
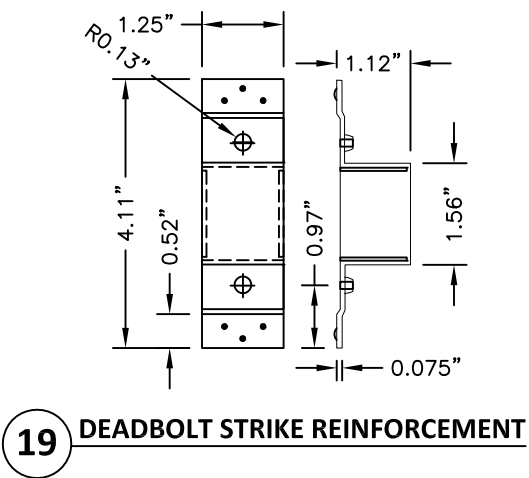
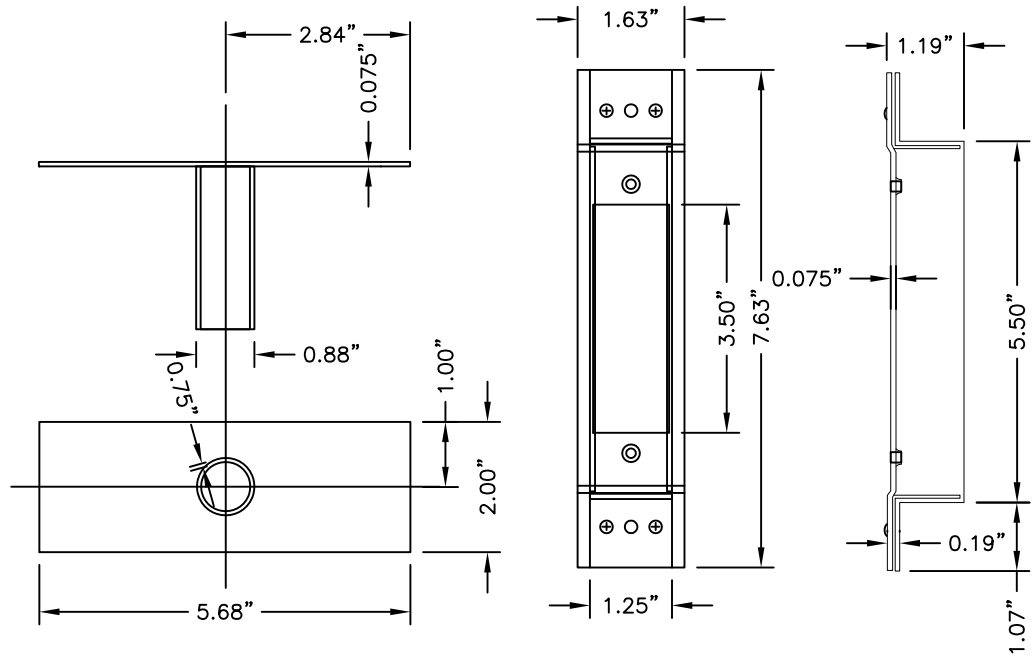
REVISIONS

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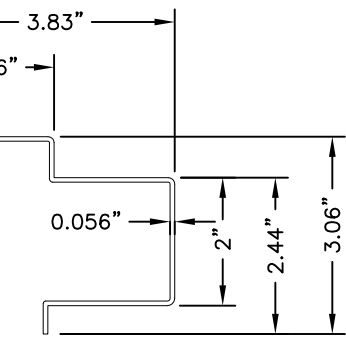
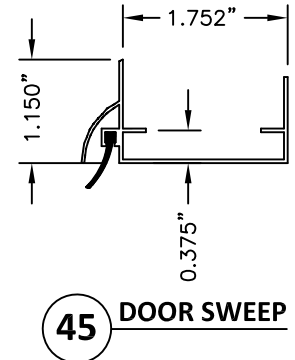
DATE: 02.06.17
DWN BY: LS
CHK BY: HFN
SCALE: NTS

DWG #: MDI009
SHEET: 15 OF 16



23 STANDARD (SHORT) DOOR HINGE
Reinforcement middle and bottom hinge

22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge



83 SILL TUBE ANCHOR

15 MULLION

28 FRAME HINGE REINFORCEMENT

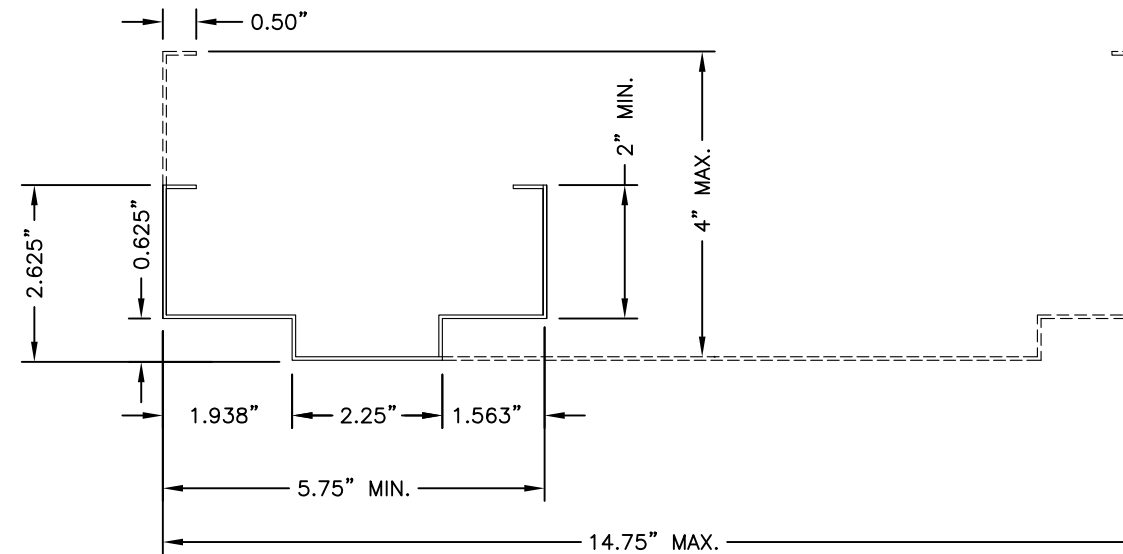
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BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREWS	STEEL
E	MASONRY - 3000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
H	1/4" X 1-3/4" ITW PFH CONCRETE SCREW	STEEL
I	5/16" X 1-3/4" ELCO ULTRACON CONCRETE SCREW	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL
K	3/8" X 5" HLC HILTI SLEEVE ANCHOR	STEEL
L	3/8" X 5" SLEEVE ANCHOR BY POWERS FASTENERS	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL
N	5/16" SMS OR MACHINE BOLT (MIN. GRADE 5 CRS)	STEEL
O	3/8" X 5" WEDGE BOLT CONCRETE SCREW BY POWERS FASTENERS	STEEL
1	"N" STEEL DOOR PANEL - UNDER SEPERATE APPROVAL	-
2	DOOR SKIN - UNDER SEPERATE APPROVAL	-
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE
4	DOOR TOP & BOTTOM CLOSER	STEEL
6	CLOSER REINFORCEMENT	STEEL
8	#12-24 X 1/2" SELF TAPPER	STEEL
9	TUBE ANCHOR (PF-10)	STEEL
10	#12-24 X 1" COMBINATION MACHINE / WOOD SCREW	STEEL
12	MULLION Z BRACKET	STEEL
15	MULLION MIN. (0.056" THK) BY MESKER	STEEL
16	ANSI LATCH STRIKE	STEEL
17	DEADBOLT STRIKE	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL
20	WEATHERSTRIP (PEMKO S-88)	NEOPRENE
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL
23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM HINGE REINF.	STEEL
25	HOLLOW METAL FRAME - 16GA (0.053" THK.) BY MESKER	STEEL
27	LATCH STRIKE REINFORCEMENT	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
29	HOLLOW METAL FRAME SILL	STEEL
30	MASONRY 'TEE' ANCHOR (MESKER PFMT5)	STEEL
31	STRAP ANCHOR (PS-241)	STEEL
33	Z ANCHOR (PF-9)	STEEL
34	WOOD STUD ANCHOR (F-24)	STEEL
35	WIRE ANCHOR (PF-2)	STEEL

ITEM #	DESCRIPTION	MATERIAL
46	#6 X 3/4" PHILIPS HEAD SMS	STEEL
53	U-CHANNEL GLASS STOP	STEEL
54	#8 X 1.25" PFH SHEET METAL SCREW - 7" O.C. TYP.	STEEL
79	WEATHER-STRIP	FOAM
81	DOW 995 STRUCTURAL SILICONE	SILICONE
83	SILL TUBE ANCHOR	STEEL
84	MULLION REINFORCEMENT	STEEL



25 HOLLOW METAL FRAME



MESKER DOOR INC.
3440 Standwood Blvd.
Huntsville, AL 35811
PH: (256) 851-6670

TITLE: "N" SERIES COMMERCIAL
OUTSWING STEEL DOOR

BILL OF MATERIALS
& COMPONENTS

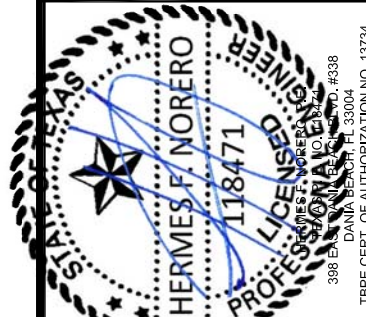
PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

NO.	DESCRIPTION	BY	DATE



DATE: 02.06.17
DWN BY: LS
CHK BY: HFN
SCALE: NTS

DWG #: **MDI009**

SHEET: **16 OF 16**

TBPE CERT. OF AUTHORIZATION NO. 13734

2/7/2017 9:59 AM

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