IRON DOORS UNLIMITED

5000 Kimberly Way
Loudon, TN 37774

GLAZED IRON DOUBLE DOOR

INSWING

"NON-IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

The Iron Door described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

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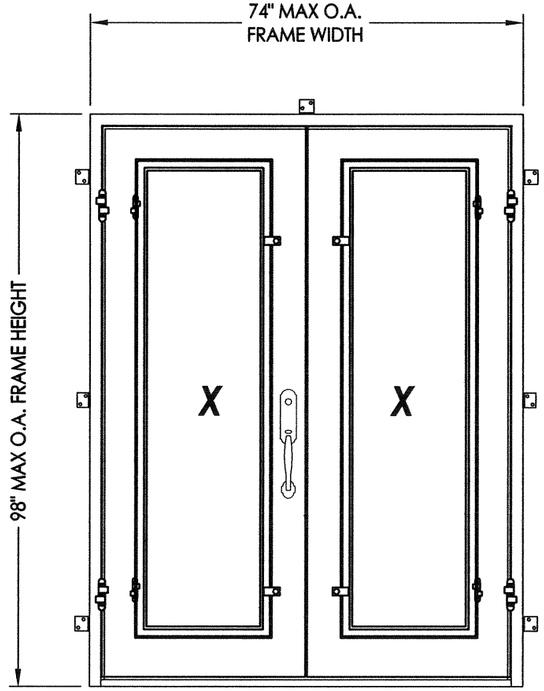
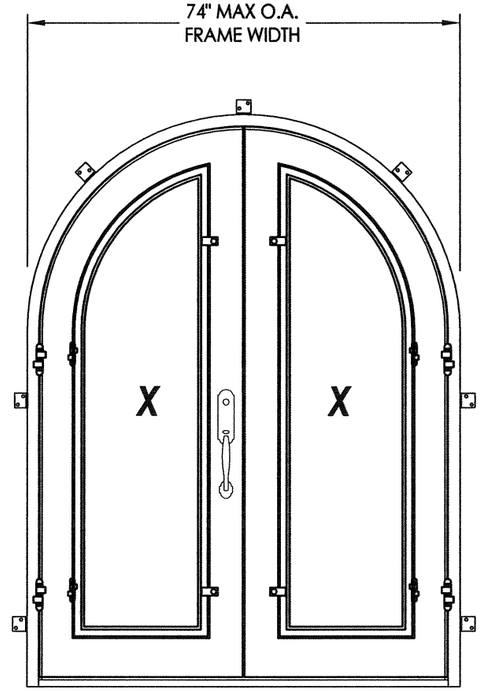
SHEET#	***DESCRIPTION***
1	Typical elevations, design pressures, & general notes
2	Door panel details
3	Horizontal and vertical cross sections
4	Frame anchoring
5	Bill of materials and components



RECTANGULAR



ARCH TOP

CONFIGURATION	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POS.	NEG.
INSWING	74.0" x 98.0"	+50.0	-60.0

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
2-4-15

Documents Prepared By: Lyndon F. Schmidt, P.E.
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL. 33595
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *IRON DOORS UNLIMITED GLAZED IRON DOOR*

PART OR ASSEMBLY: *TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES*

NO.	DATE	BY	REVISIONS

DATE: 2/02/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4527
SHEET 1 OF 5

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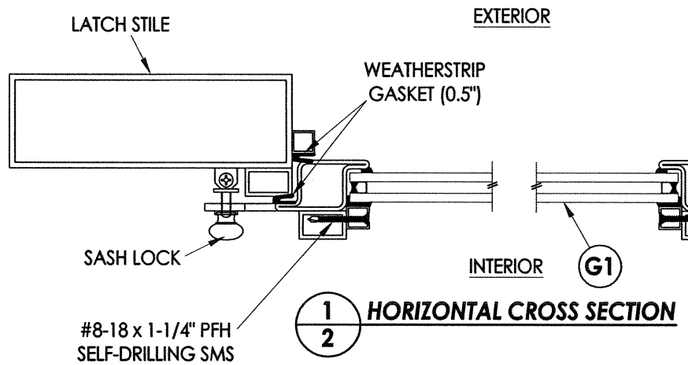
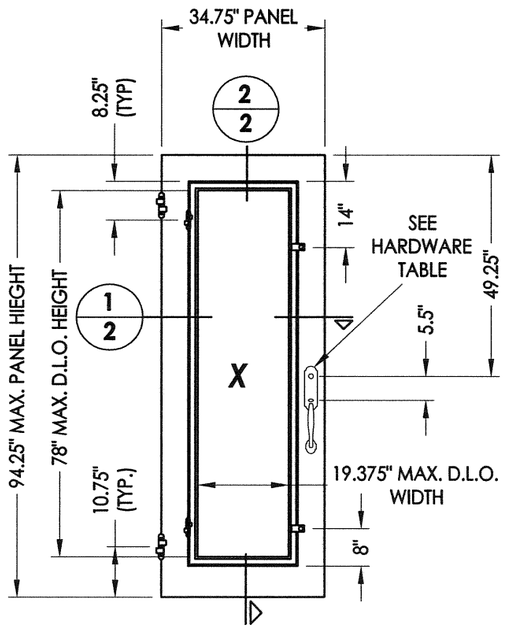
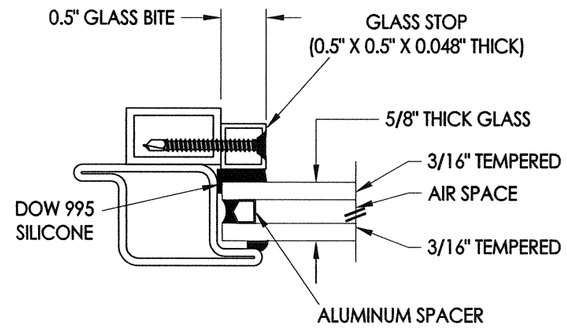


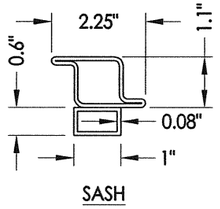
1/2 **HORIZONTAL CROSS SECTION**



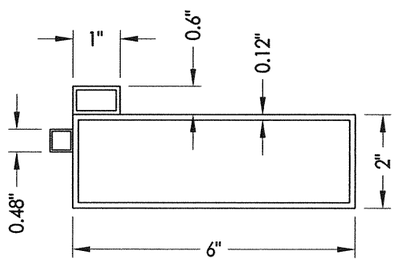
30 **DOOR PANEL**



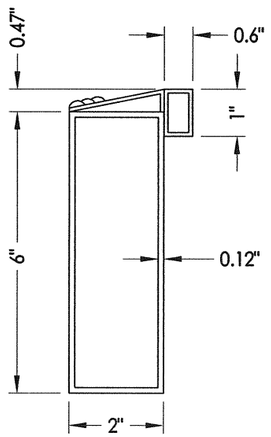
G1 **GLAZING DETAIL**



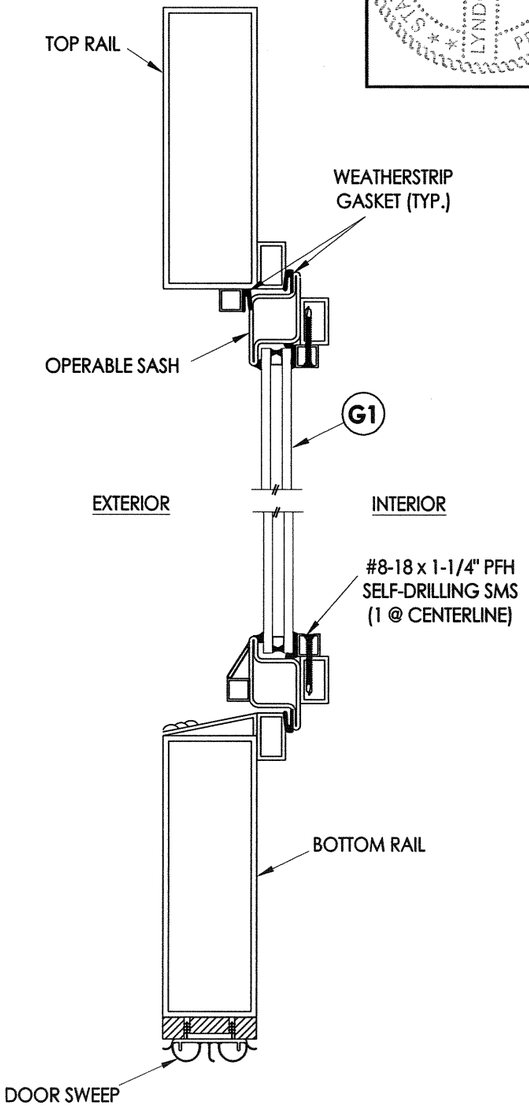
SASH



STILES & TOP RAIL



BOTTOM RAIL



2/2 **VERTICAL CROSS SECTION**

LOCK HARDWARE TABLE

MANUFACTURER	MODEL
WESLOCK	ENTRY HANDLE w/ DEADBOLT (WILTSHIRE)

STATE OF TEXAS — LYNDON F. SCHMIDT — 104123 — LICENSED PROFESSIONAL ENGINEER

2.4.15

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TEXAS BOARD OF PROFESSIONAL ENGINEERS CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *IRON DOORS UNLIMITED GLAZED IRON DOOR*

PART OR ASSEMBLY: *DOOR PANEL DETAILS*

NO.	DATE	BY	REVISIONS

DATE: 2/02/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4527
SHEET 2 OF 5

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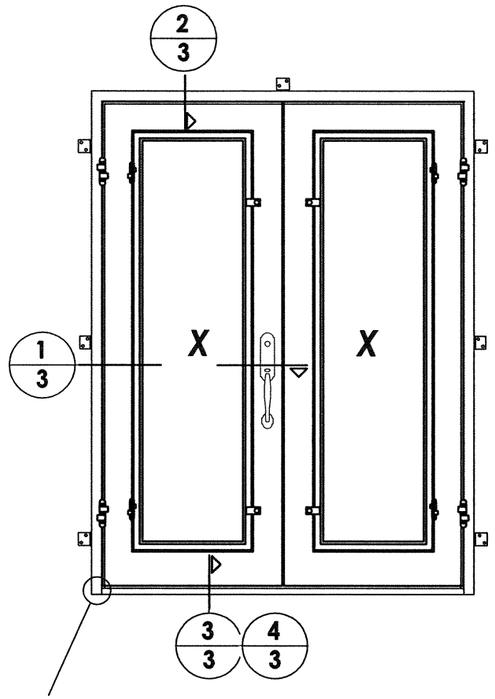
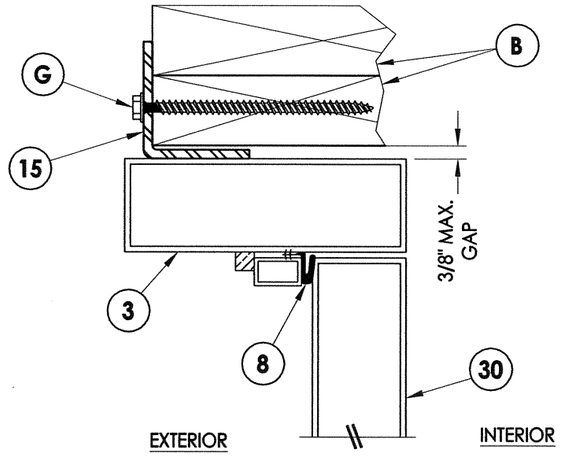
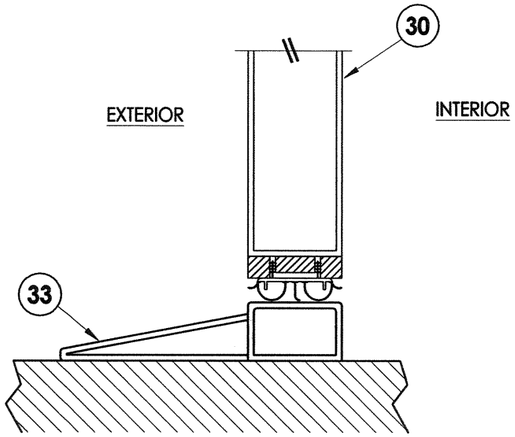
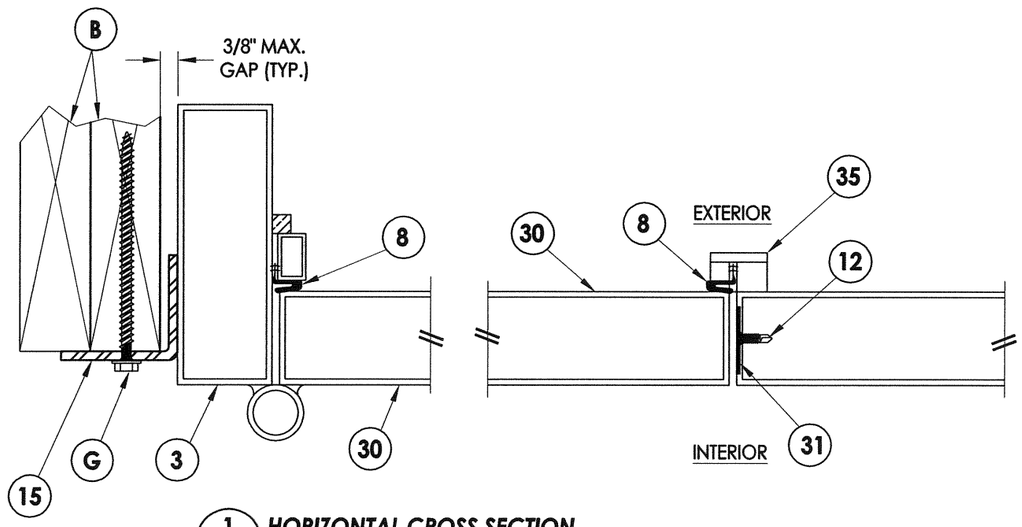




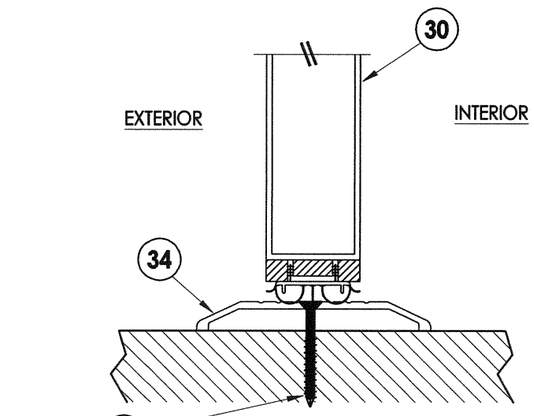
2/3 **HORIZONTAL CROSS SECTION**



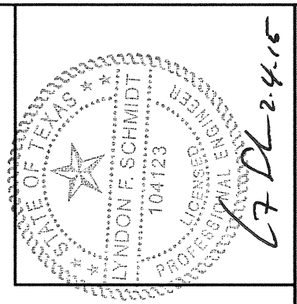
3/3 **VERTICAL CROSS SECTION**
Inswing Sill



1/3 **HORIZONTAL CROSS SECTION**



4/3 **VERTICAL CROSS SECTION**
Optional ADA Sill



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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *IRON DOORS UNLIMITED GLAZED IRON DOOR*

PART OR ASSEMBLY: *HORIZONTAL & VERTICAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY

DATE: 2/02/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4527
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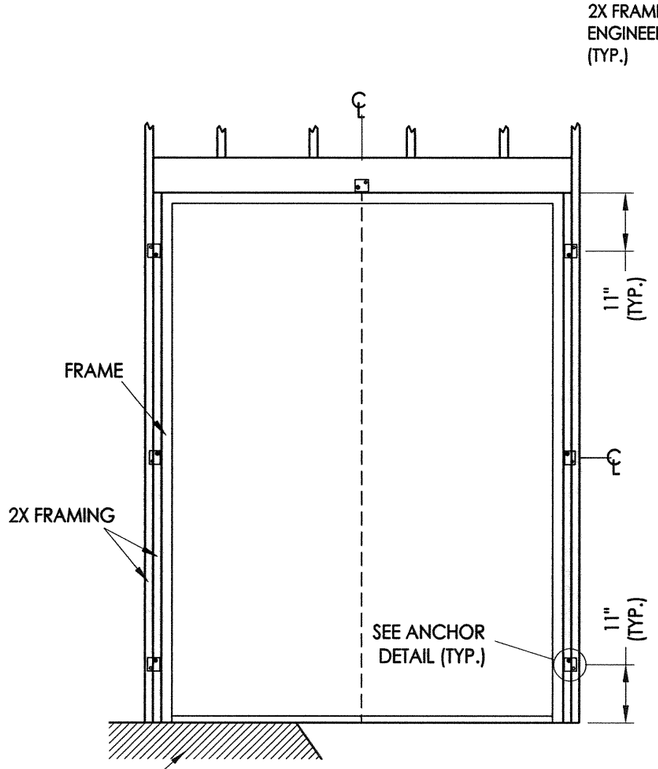
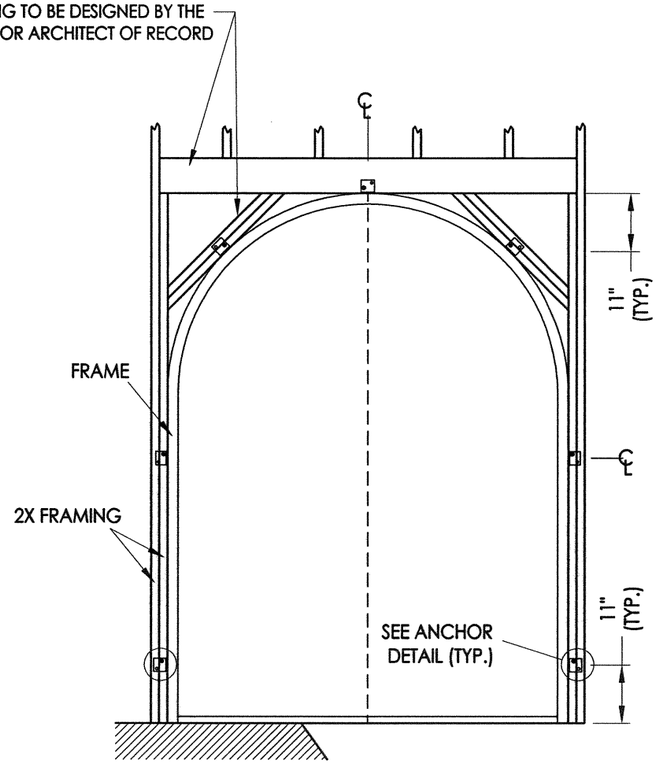


FRAME ANCHORING
Rectangular

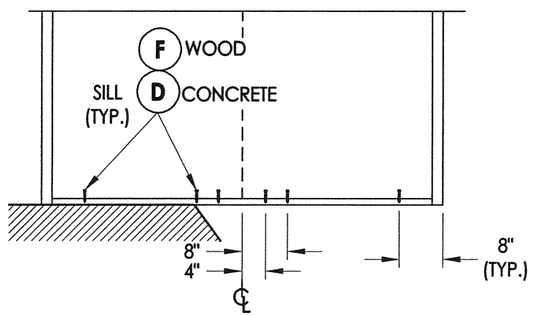


FRAME ANCHORING
Arch Top

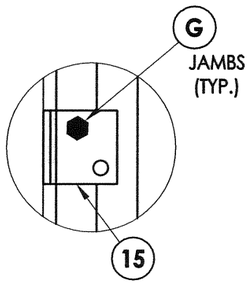
CONCRETE ANCHOR NOTES:

1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
2. *Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.*
3. *Concrete anchor table:*

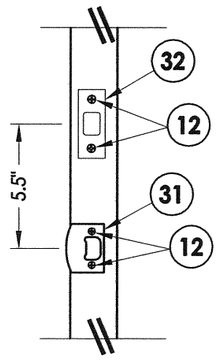
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	1/4"	1-3/4"	1-1/2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	2-1/2"	4"



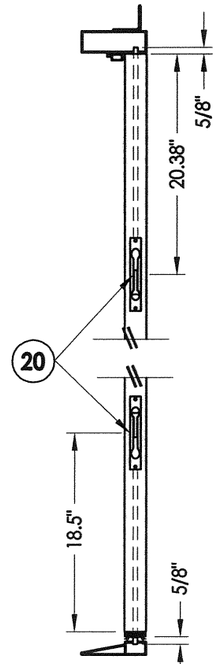
FRAME ANCHORING
Optional ADA Sill



ANCHOR DETAIL



STRIKE DETAILS



FLIP BOLT DETAIL
0.4" DIA. BOLT

STATE OF TEXAS
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: IRON DOORS UNLIMITED GLAZED IRON DOOR

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	BY	REVISIONS

DATE: 2/02/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4527
SHEET 4 OF 5

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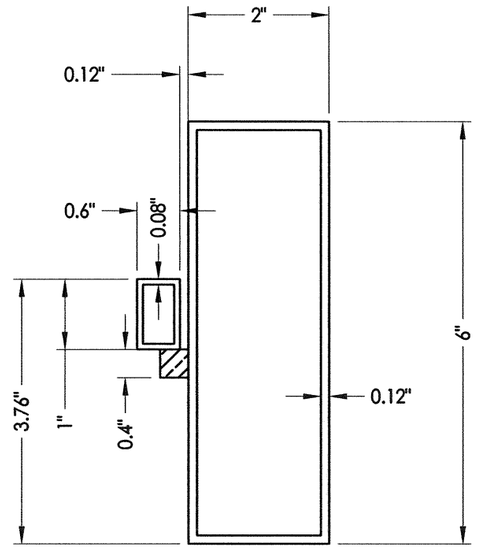
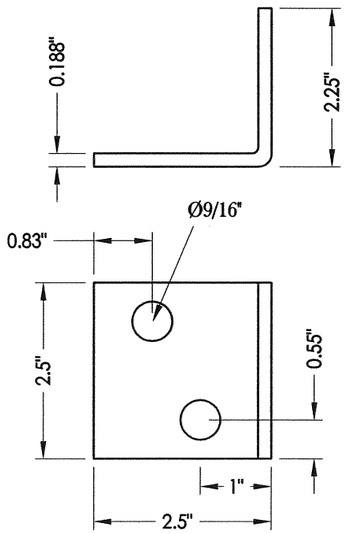
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X FRAMING (SG >= 0.42)	WOOD
D	1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW (1.25" MIN. EMBEDMENT)	STEEL
F	#10 X 2-1/2" PFH WOOD SCREW (1.5" MIN. EMBEDMENT)	STEEL
G	3/8" X 5" HWH LAG SCREW (4.5" MIN. EMBEDMENT)	STEEL
3	DOOR FRAME	STEEL
8	WEATHERSTRIP GASKET (0.67")	FOAM
12	#8 X 3/4" PFH SELF-DRILLING SMS	STEEL
15	ANCHORING BRACKET	STEEL
29	#12 X 1" PFH SELF-DRILLING SMS	STEEL
30	DOOR PANEL	-
31	LATCH STRIKE PLATE	STEEL
32	DEADBOLT STRIKE PLATE	STEEL
33	INSWING THRESHOLD	STEEL
34	ADA THRESHOLD	ALUM
35	ASTRAGAL	STEEL

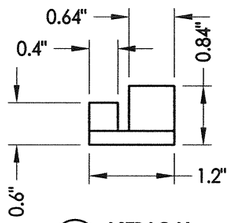
NOTE: ALL DOOR FRAME TUBULAR STEEL SHALL BE ASTM A36 STEEL



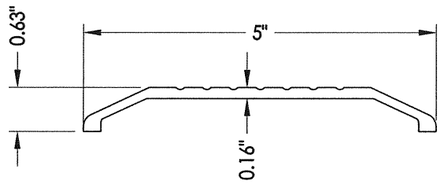
3 DOOR FRAME



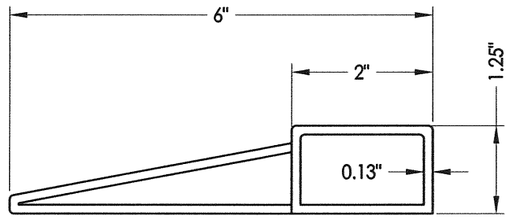
15 ANCHORING BRACKET
Welded all around to frame



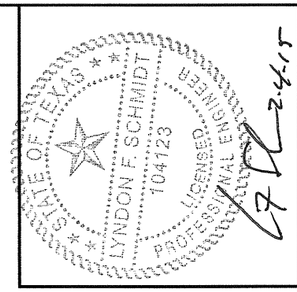
35 ASTRAGAL



34 ADA THRESHOLD



33 INSWING THRESHOLD



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PRODUCT: *IRON DOORS UNLIMITED GLAZED IRON DOOR*

PART OR ASSEMBLY: *BILL OF MATERIALS AND COMPONENTS*

NO.	DATE	BY	REVISIONS

DATE: 2/02/15
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DWG. BY: JK
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SHEET 5 OF 5

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