

### H-100 REMOVAL INSTRUCTIONS

1. REMOVE THREADED PIN FROM BOTTOM OF H-100 HORIZONTAL PORTION (FIGURE 1). GENTLY PULL HORIZONTAL PORTION AWAY FROM PLYWOOD TEMPLATE.
  2. ROTATE ROUND CONNECTION PIVOT BRACKET (PORTION NEAREST TO THE PB-2 BLOCK, FIGURE 2) COUNTERCLOCKWISE AND REMOVE FROM PB-2 BLOCK.
- NOTE:** IF CONNECTOR IS HARD TO REMOVE, WRAP A RUBBER STRIP AROUND THE CONNECTOR TO PROTECT THE FINISH, AND REMOVE THE CONNECTOR WITH PLIERS.
- 2A. REMOVE SOCKET HEAD CAP SCREW (FIGURE 2A) FROM INTERIOR PIVOT BRACKET (EXTERIOR PIVOT BRACKET IS LOCATED ON THE EXTERIOR SIDE OF PLYWOOD TEMPLATE). BE CAREFUL NOT TO LOSE GASKETS AND BRONZE BUSHING LOCATED INSIDE INTERIOR PIVOT BRACKET (REUSE GASKETS ON GLASS).
  3. LIFT TOP PORTION OF H-100 HANDLE AWAY FROM PLYWOOD TEMPLATE AND MOVE DOWN TO UNHOOK THE ACTUATOR POST (FIGURE 3). SET HANDLE ASIDE.
  4. TO REMOVE ACTUATOR POST, UNSCREW FLATHEAD SOCKET SCREW WITH HEX KEY WRENCH (FIGURE 4) BEING CAREFUL THAT THE CYLINDER HOUSING OR RETAINING PLATE ON THE EXTERIOR SIDE OF THE TEMPLATE DOES NOT FALL. BE CAREFUL NOT TO LOSE THE CYLINDER OPERATING PIN, HANDLE RETURN PIN, RETURN SPRING, GASKETS, AND NYLON BUSHING (REUSE GASKETS ON GLASS).

### EXTERIOR FIXED PULL HANDLE (STYLE "A") REMOVAL INSTRUCTIONS

5. USE SPANNER WRENCH (FURNISHED BY BLUMCRAFT) TO REMOVE EXTERIOR FIXED PULL HANDLE ACTUATOR AND RUBBER BUSHING (FIGURE 5). (REUSE BUSHING ON GLASS.)
6. UNSCREW INTERIOR CAP FROM EXTERIOR FIXED PULL HANDLE. REMOVE RUBBER BUSHING (FIGURE 6) (REUSE BUSHING ON GLASS).

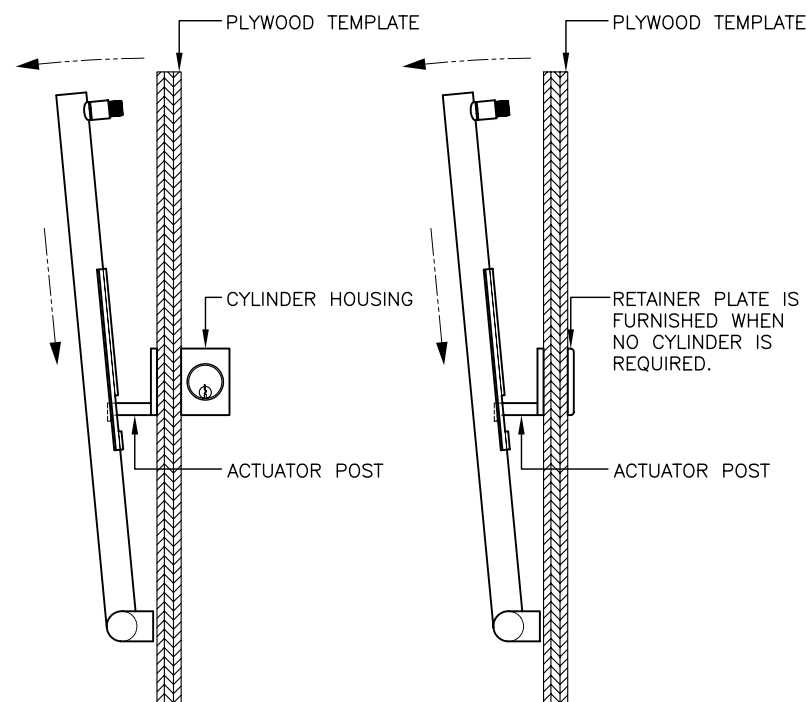
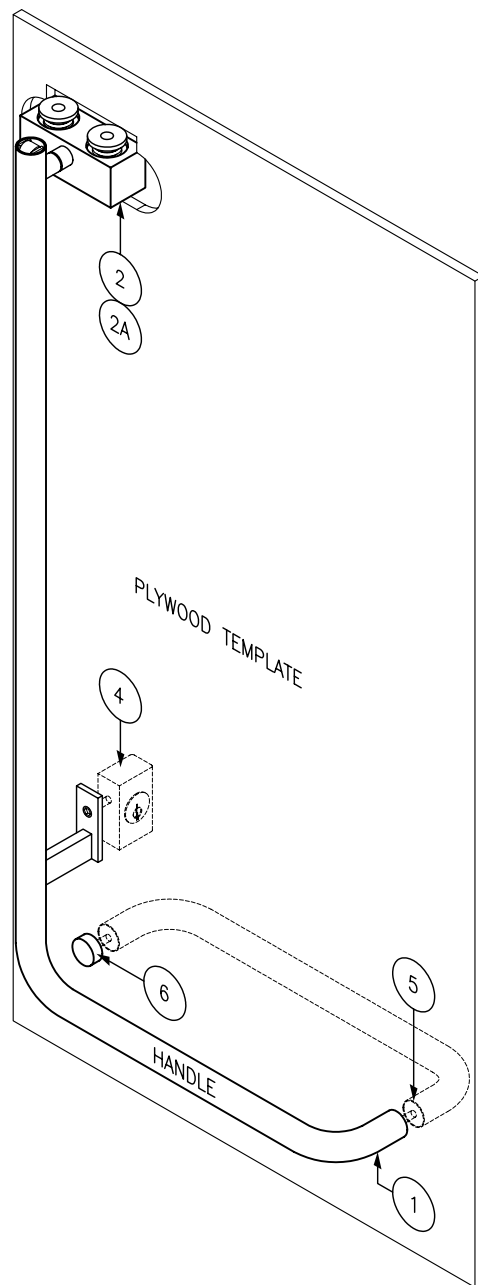


FIGURE 3

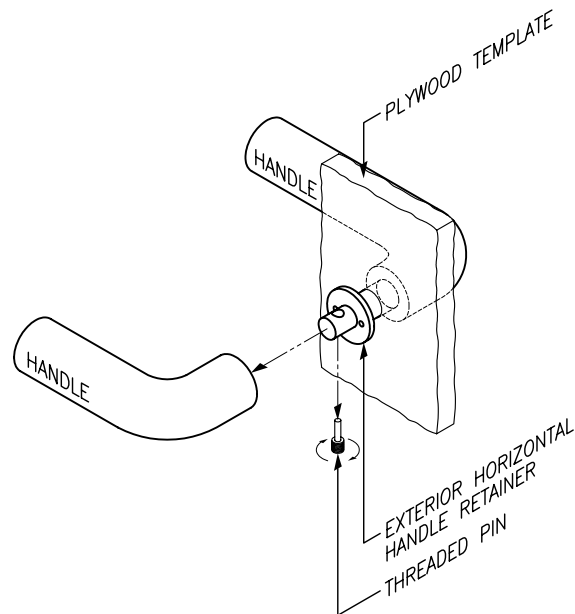


FIGURE 1

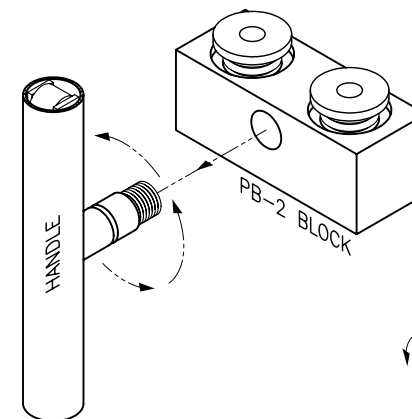


FIGURE 2  
FOR DOORS WITH PANIC DEVICE  
MOUNTING TO GLASS DOOR SHOE

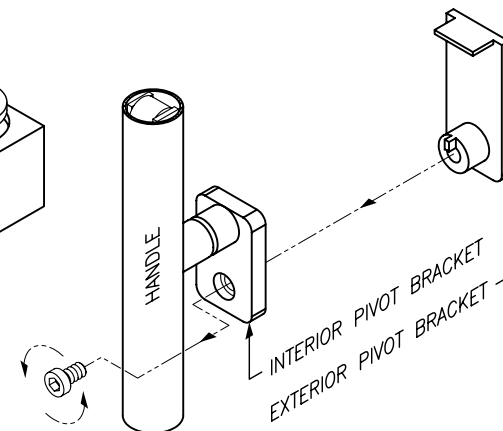


FIGURE 2A  
FOR DOORS WITH PANIC DEVICE  
MOUNTING TO GLASS ONLY

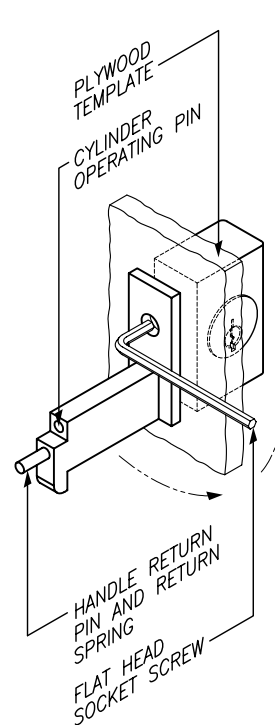


FIGURE 4

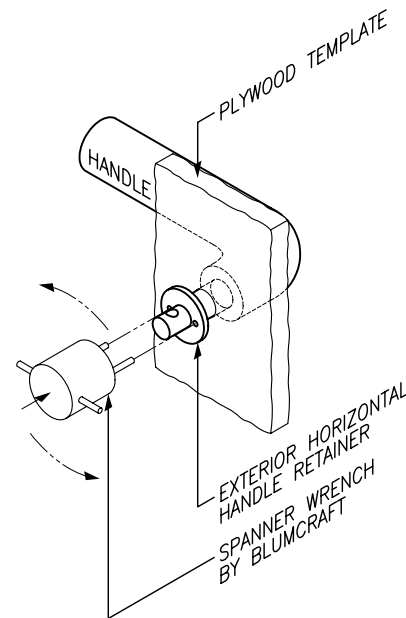


FIGURE 5

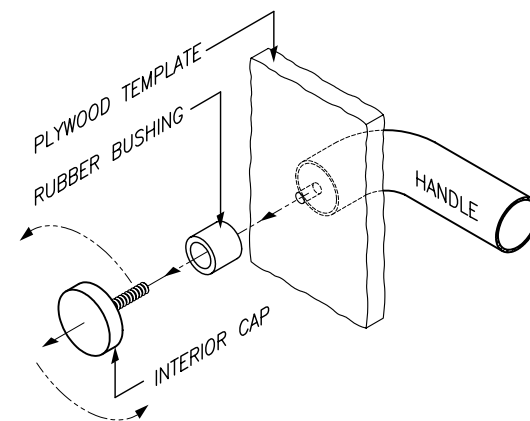


FIGURE 6

TOLERANCES: + -  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

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REMOVAL OF H-100 INTERIOR PANIC HOUSING  
WITH STYLE "A" FIXED EXTERIOR PULL HANDLE  
FROM PLYWOOD TEMPLATE BOARD

JOB NUMBER  
DWG. NO.

NS-728

REVISIONS	DATE	DN	CH
A	REDRAW ON CAD/ADD PB-2	1/30/03	TA/MT

DRAWN BY BW 9/27/83

CHECKED BY

SCALE N.T.S.

EXTERIOR FIXED PULL HANDLE (STYLE "A") INSTALLATION INSTRUCTIONS

1. INSERT RUBBER BUSHING INTO GLASS HOLE FOR EXTERIOR FIXED PULL HANDLE (STYLE "A"). PLACE HANDLE IN POSITION ON EXTERIOR SIDE OF GLASS AND HAND TIGHTEN CAP INTO HANDLE FROM INTERIOR SIDE (FIGURE 1).
2. INSERT HORIZONTAL HANDLE RETAINER WITH RUBBER BUSHING THRU GLASS HOLE FROM INTERIOR SIDE INTO EXTERIOR FIXED PULL HANDLE AND TIGHTEN WITH SPANNER WRENCH (FIGURE 2).
3. INSERT PRE-SELECTED NYLON BUSHING INTO TRIPLE HOLE CUTOUT IN GLASS.

**NOTE:** BLUMCRAFT FURNISHES FOUR NYLON BUSHINGS. HOWEVER USE ONLY ONE OF THE FOUR. DEPENDING UPON HOW ACCURATELY THE TRIPLE HOLE CUTOUT IN THE GLASS HAS BEEN DIMENSIONALLY LOCATED. SEE NS-850 INSTRUCTION SHEET.

PLACE FLAT SIDE OF HANDLE ACTUATOR CONTAINING CYLINDER OPERATING PIN, RETURN SPRING AND RETURN PIN, AGAINST GLASS OVER NYLON BUSHING AND TIGHTEN 5/16-18 FLAT HD. SOCKET CAP SCREW INTO CYLINDER HOUSING (FIGURE 3).

H-100 PANIC DEVICE INSTALLATION INSTRUCTIONS

- 4A. (TYPE "A" DOORS): INSERT RUBBER BUSHING INTO HOLE AT TOP OF GLASS DOOR. PLACE EXTERIOR PIVOT BRACKET WITH GASKET AGAINST EXTERIOR SIDE INTO NOTCHED PORTION OF GLASS. ALIGN INTERIOR PANIC DEVICE AND TIGHTEN WITH LOW HEAD SOCKET CAP SCREW (FIGURE 4A).

- 4B. (TYPE "P" DOORS)

DOOR PREP INSTRUCTIONS

1. PREP DOOR RAILS PER BLUMCRAFT'S INSTRUCTION SHEET NS-844 FOR PB-2 BLOCK USING JIG PROVIDED BY BLUMCRAFT.

**CAUTION:** 5/16-18 TAPPED HOLES MUST BE ON CENTERLINE OF RAIL AND CENTERLINE OF GLASS.

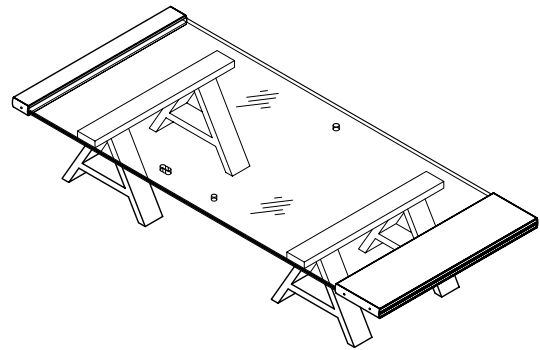
2. INSTALL PB-2 BLOCK IN RAIL WITH (2) 5/16-18 x 3/4" LG. SOCKET HD. CAP SCREWS. ADJUST PB-2 BLOCK USING ADJUSTER SCREWS TO ALIGN PB-2 HANDLE CONNECTOR HOLE AND THE 53/64" DIA. HOLE IN RAIL.

**NOTE:** THREADED HOLE IS LOCATED ON INTERIOR SIDE OF DOOR.

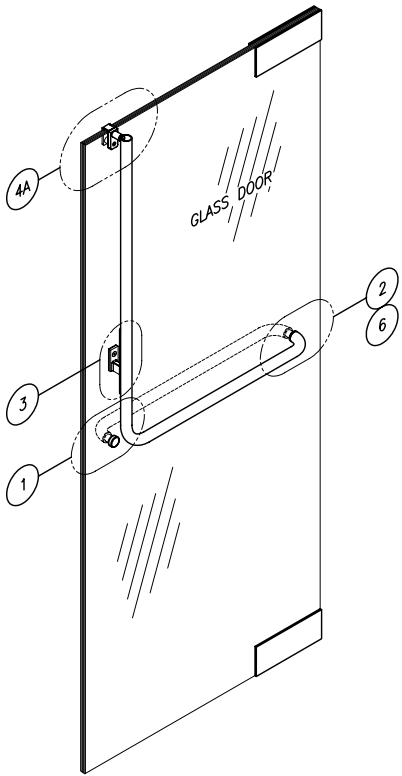
ALIGN INTERIOR PANIC DEVICE AND TIGHTEN THREADED PIVOT BRACKET INTO PB-2 BLOCK.

5. LIFT TOP PORTION OF H-100 HANDLE AWAY FROM DOOR, HOOK THE H-100 HANDLE OVER HANDLE ACTUATOR POST, MOVING HANDLE UP (FIGURE 5).

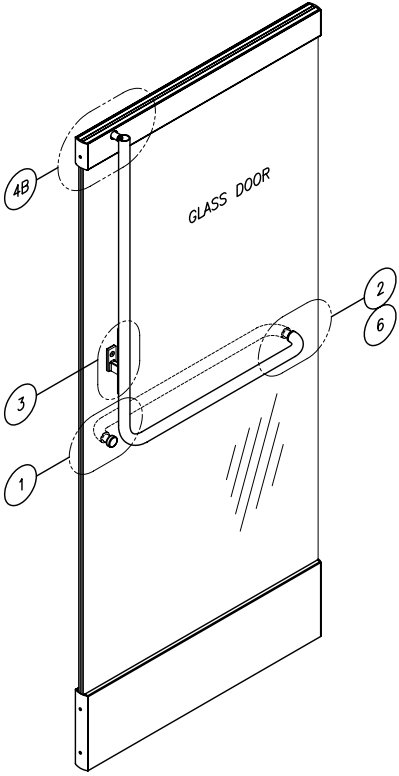
6. PLACE HORIZONTAL PORTION OF H-100 HANDLE OVER HORIZONTAL HANDLE RETAINER, LINE UP HOLE IN RETAINER WITH HOLE IN HANDLE AND INSERT THREADED PIN (FIGURE 6).



LAY DOOR FLAT TO ASSEMBLE PANIC HARDWARE



DOOR WITHOUT TOP AND BOTTOM RAILS  
TYPE "A"



DOOR WITH FULL TOP AND BOTTOM RAILS  
TYPE "P"

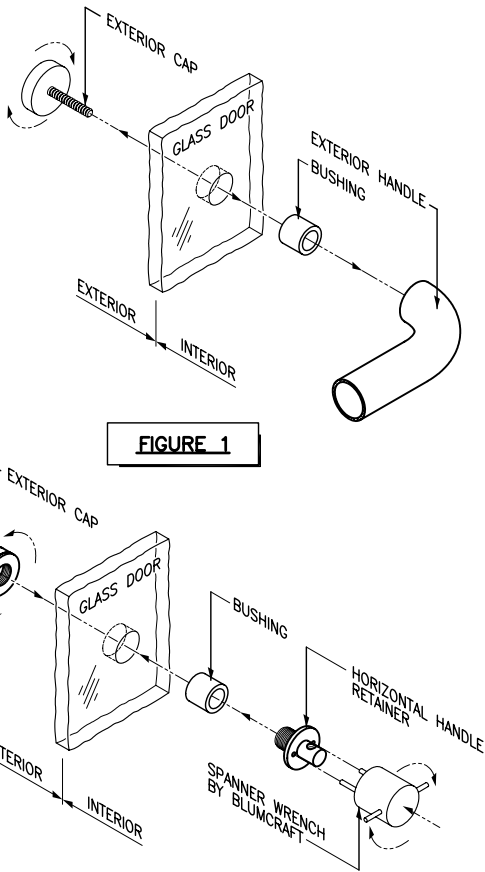


FIGURE 1

FIGURE 2

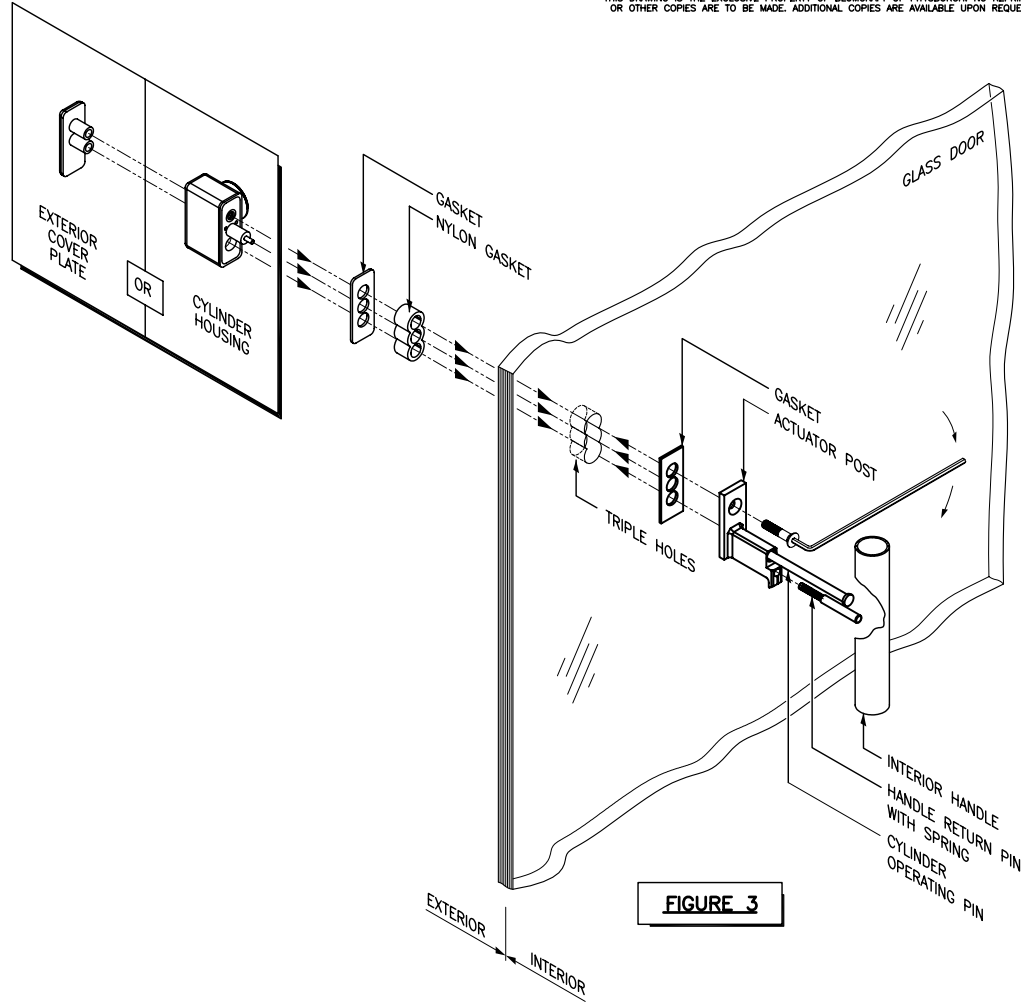


FIGURE 3

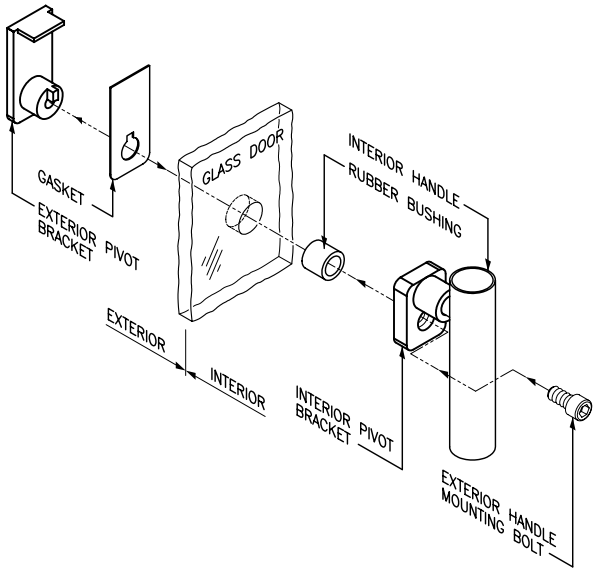


FIGURE 4A  
FOR DOORS WITH PANIC DEVICE  
MOUNTING TO GLASS ONLY  
(TYPE "A")

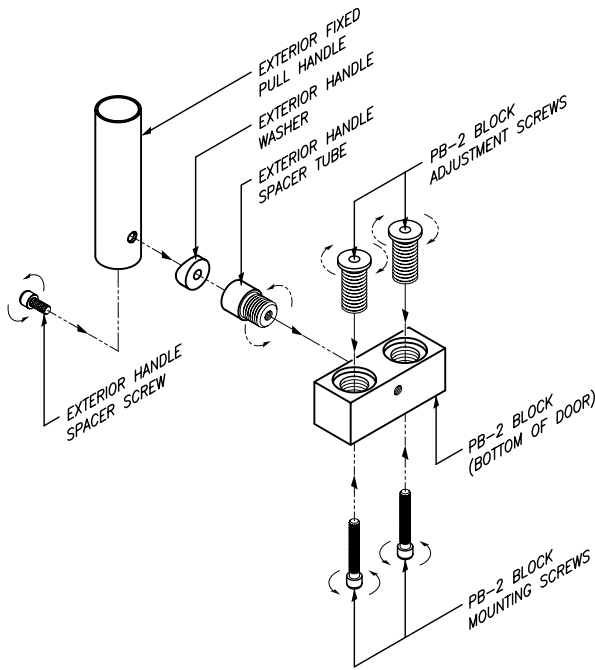


FIGURE 4B  
FOR DOORS WITH PANIC DEVICE  
MOUNTING TO GLASS DOOR SHOE  
(TYPE "P")

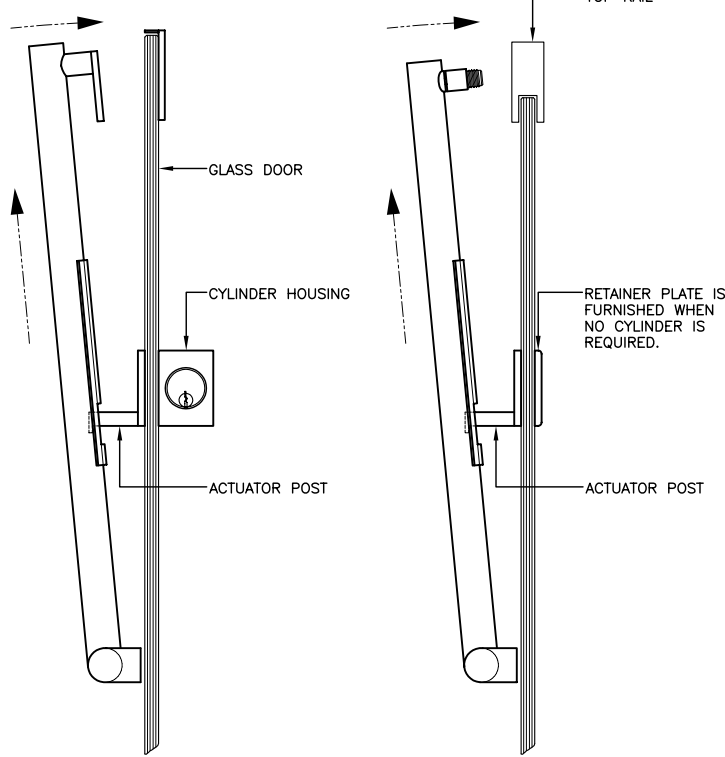


FIGURE 5

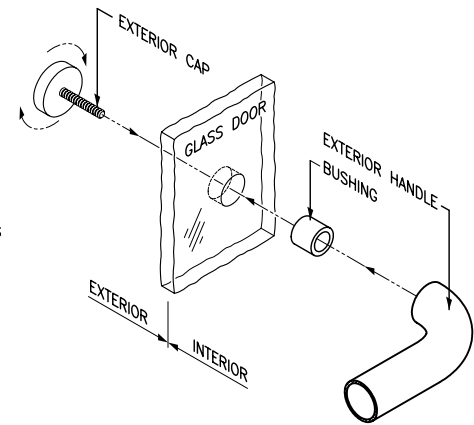


FIGURE 6

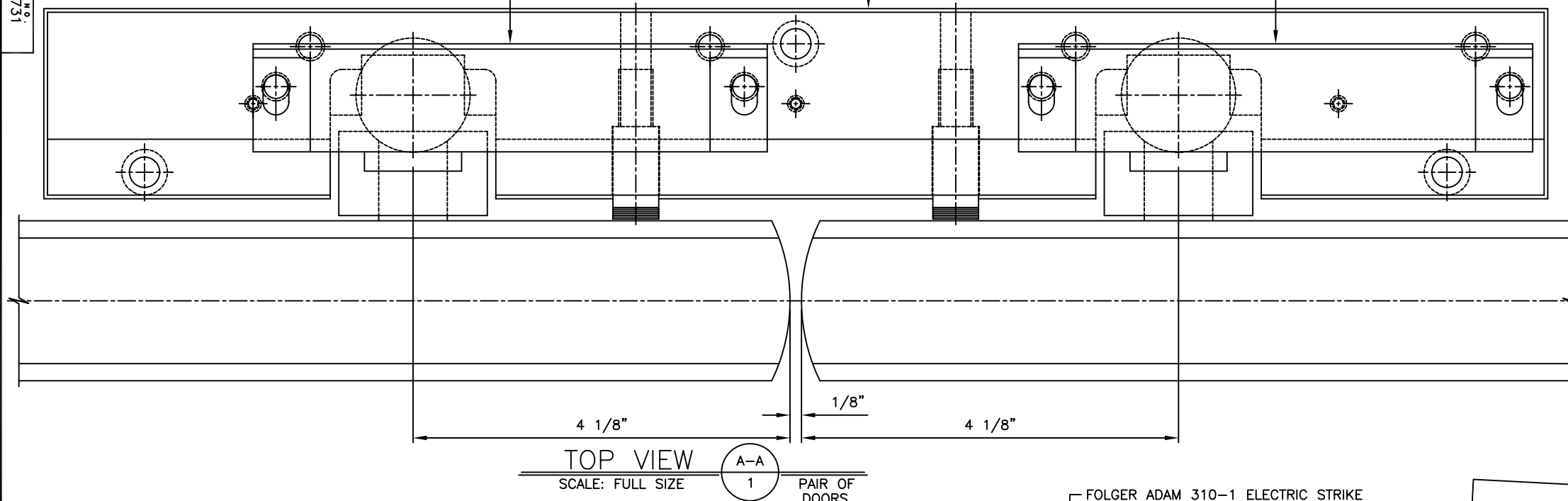
DRAWING NO.  
NS-731

FOLGER ADAM 310-1 ELECTRIC STRIKE  
WITH 3/4" STRAIGHT KEEPER.  
NO SIGNAL SWITCH.

DOOR STOP/STRIKE

FOLGER ADAM 310-1 ELECTRIC STRIKE  
WITH 3/4" STRAIGHT KEEPER.  
NO SIGNAL SWITCH.

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TOP VIEW

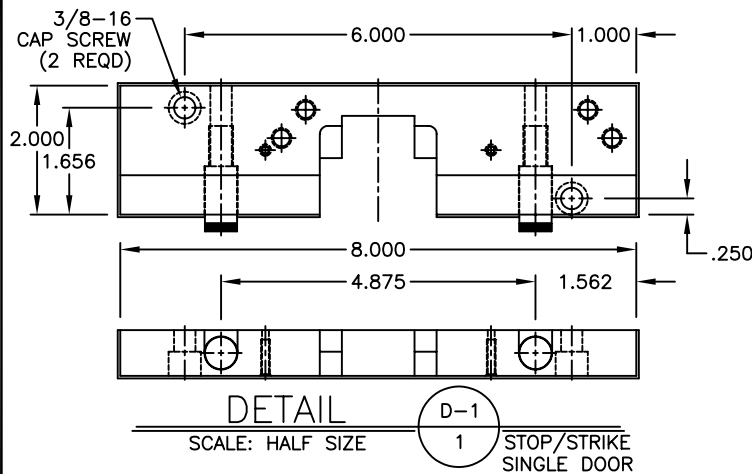
SCALE: FULL SIZE

A-A  
1

PAIR OF  
DOORS.

DOOR STOP/STRIKE

FOLGER ADAM 310-1 ELECTRIC STRIKE  
WITH 3/4" STRAIGHT KEEPER.  
NO SIGNAL SWITCH.

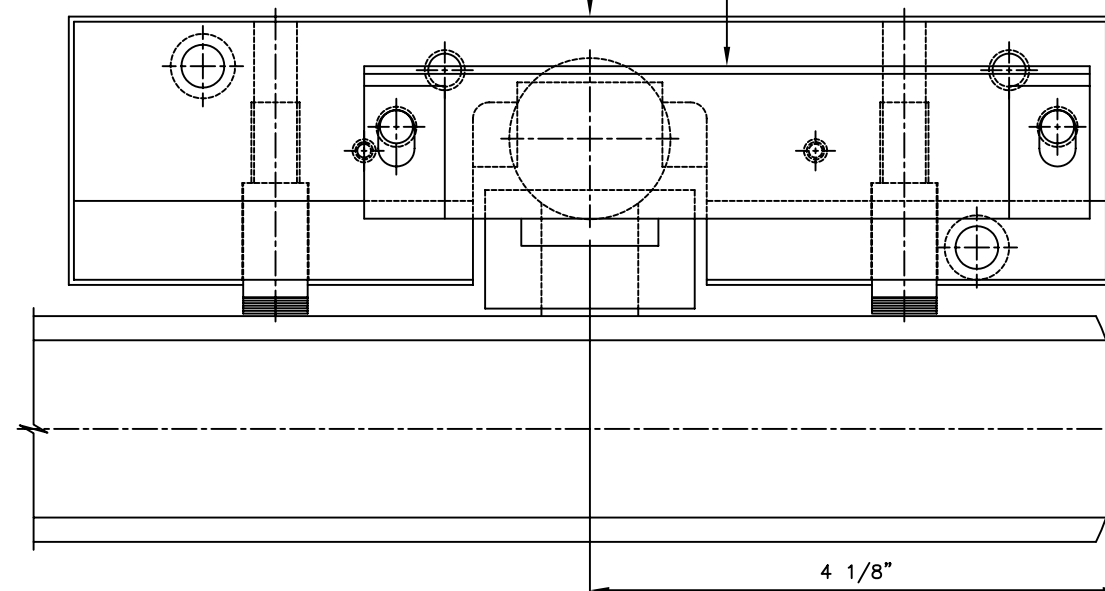


DETAIL

SCALE: HALF SIZE

D-1  
1

STOP/STRIKE  
SINGLE DOOR

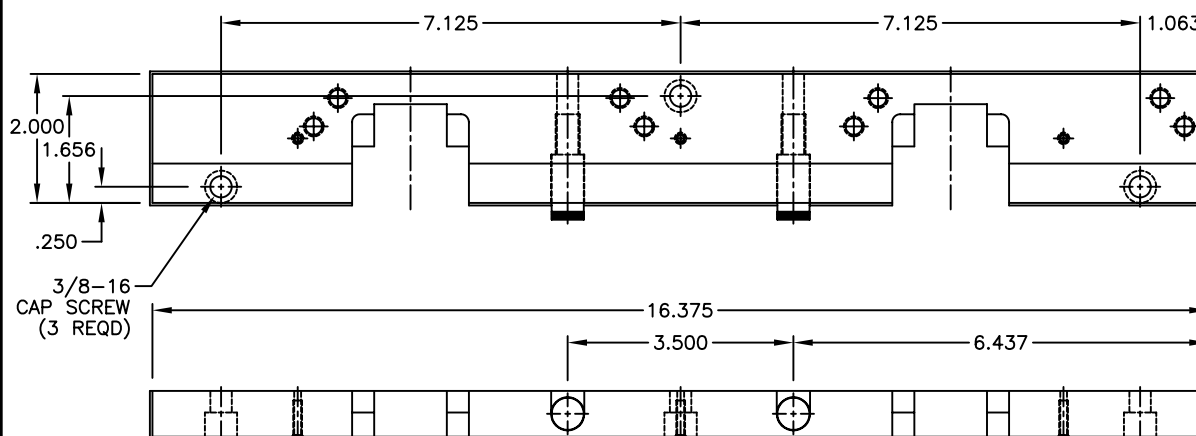


TOP VIEW

SCALE: FULL SIZE

A-A  
1

SINGLE  
DOOR.



DETAIL

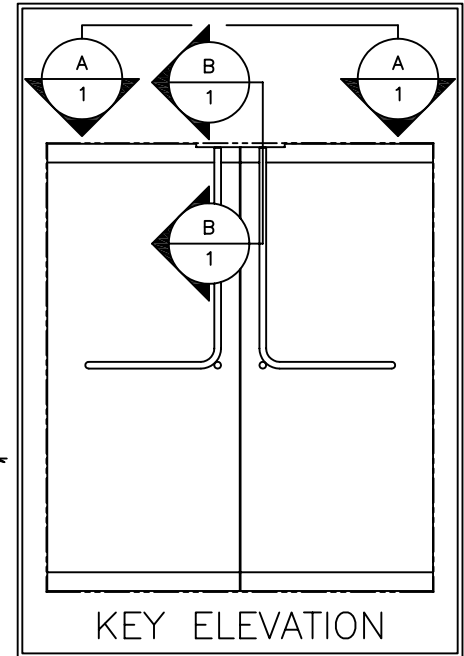
SCALE: HALF SIZE

D-2  
1

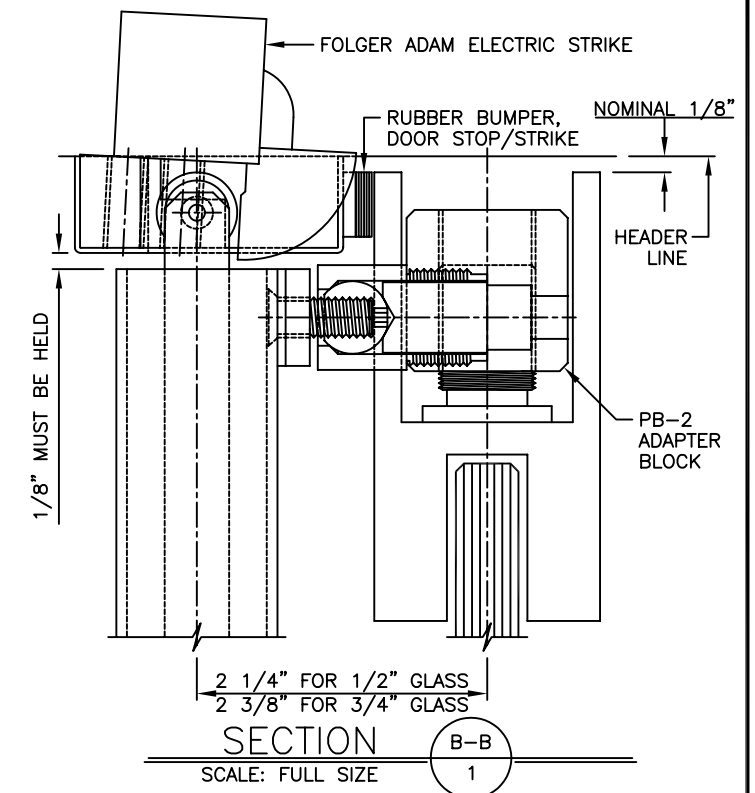
STOP/STRIKE  
PAIR OF DOORS

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INTEGRITY OF ANY STRUCTURE NOT  
BY BLUMCRAFT.



KEY ELEVATION



SECTION

SCALE: FULL SIZE

B-B  
1

TOLERANCES:  
UNLESS OTHERWISE SPECIFIED

DECIMALS

FRACTIONS

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DRAWN BY BW 12/07/83

CHECKED BY

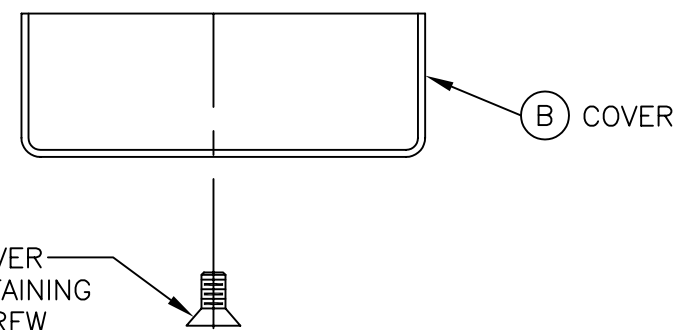
SCALE AS NOTED

INSTALLATION OF DOOR STOP FOR FOLGER ADAM  
ELECTRIC STRIKE FOR 1 3/4" THICK DOORS.  
DOUBLE OR SINGLE DOORS-1/2" OR 3/4" GLASS.

JOB NUMBER

DWG. NO. NS-731

SHEET 1 OF 1



STEP 1—REMOVE COVER RETAINING SCREWS "A"

STEP 2—REMOVE COVER "B"

STEP 3—REMOVE DOOR STOP/LATCH KEEPER MOUNTING BOLTS "C"

STEP 4—GENTLY LOWER DOOR STOP/LATCH KEEPER "D"

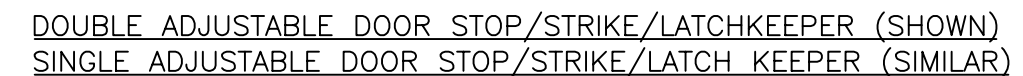
NOTE: DO NOT DISCONNECT ELECTRIC WIRES

STEP 5—LOOSEN ELECTRIC STRIKE MOUNTING BOLTS "E"

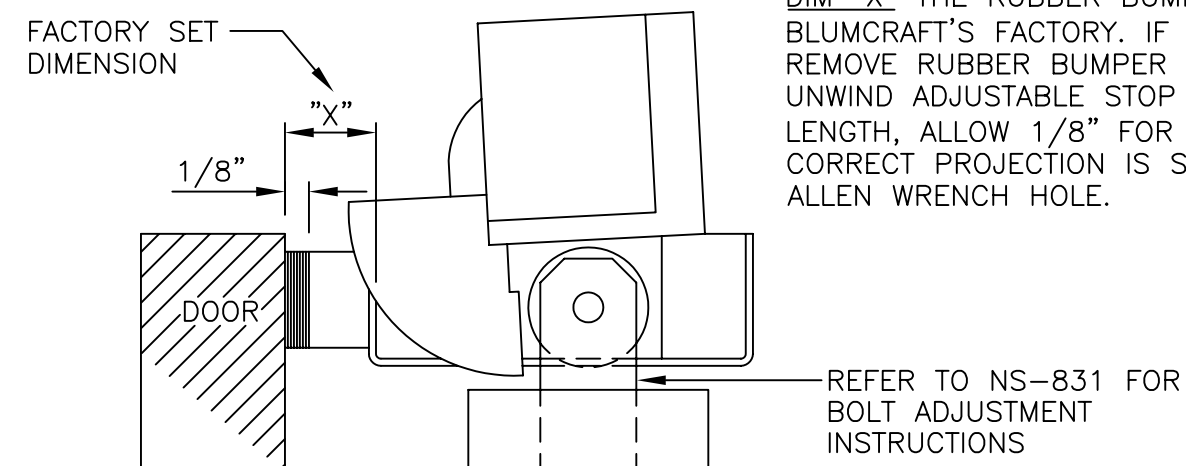
STEP 6—ADJUST ANGULARITY SET SCREWS "F" AS REQUIRED.CAUTION:MAXIMUM  
ANGLE IS 6°.SEE SECTION A—A,DETAIL 1  
(2 SET SCREWS PER ELECTRIC STRIKE)

STEP 7—TIGHTEN ELECTRIC STRIKE MOUNTING BOLTS "E"

STEP 8—REASSEMBLE TO HEADER



DIM "X" THE RUBBER BUMPER PROJECTION IS PRESET AT BLUMCRAFT'S FACTORY. IF ADJUSTMENT SHOULD BE REQUIRED REMOVE RUBBER BUMPER BY PULLING OUT. THEN WIND OR UNWIND ADJUSTABLE STOP WITH ALLEN WRENCH TO DESIRED LENGTH, ALLOW 1/8" FOR RUBBER BUMPER THICKNESS. WHEN CORRECT PROJECTION IS SET PUSH RUBBER BUMPER INTO ALLEN WRENCH HOLE.



—REFER TO NS-831 FOR  
BOLT ADJUSTMENT  
INSTRUCTIONS

SECTION B-E

SCALE: FULL SIZE 1

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TOLERANCES:  $\pm .005$  DECIMALS  $\pm \frac{1}{64}$  FRACTIONS  
UNLESS OTHERWISE SPECIFIED

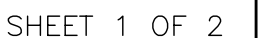
*Glumcraft*

O F P I T T S B U R G H

DRAWN BY	FV	8/25/00
CHECKED BY	TR	8/25/00
SCALE	AS NOTED & NTS	

INSTRUCTIONS FOR ADJUSTING DOOR STOP/LATCH  
KEEPER USED WITH BLUMCRAFT PANIC OR DB HANDLE

DWG. NO.	NS-761
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PREPARING THE DOOR OPENING  
FIGURE 1

- NOTE:** IN ORDER TO PERMIT DOOR ADJUSTMENT AND ALIGNMENT, LOCATE THE FLOOR CLOSER GENERALLY IN THE CENTER POSITION OF THE CEMENT CASE (SEE FIGURE 1).

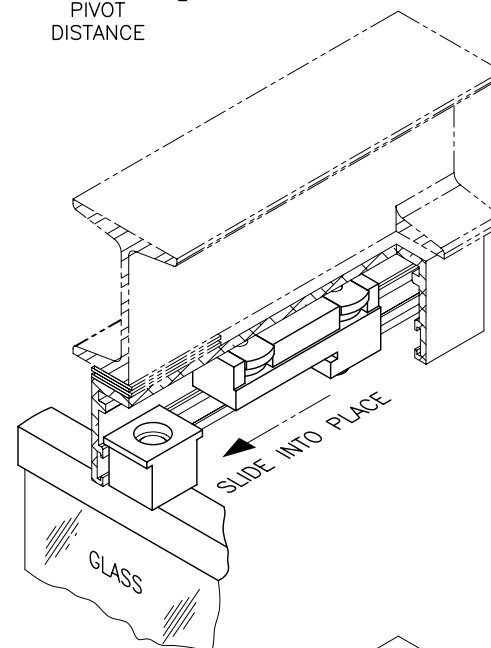
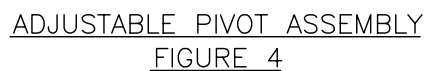
- NOTE:** FINISH RING AND SPINDLE ADAPTER COVER **MUST** BE INSTALLED PRIOR TO DOOR INSTALLATION.

1. PLACE PIVOT ADAPTER ON PIVOT PIN ON TOP OF DOOR (SEE FIGURE 2).
2. LIFT DOOR AND PIVOT ADAPTER INTO CEILING CHANNEL (SEE FIGURE 3).
3. ALIGN BOTTOM DOOR TAB WITH FLOOR CLOSER SPINDLE ADAPTER SLOT. LOWER DOOR TAB INTO FLOOR CLOSER ADAPTER.
4. OPEN DOOR TO 90° POSITION AND SECURE.
5. INSERT T-NUTS INTO CEILING CHANNEL AND ROTATE 90° (SEE FIGURE 4).
6. INSERT PIVOT RETAINER DIRECTLY OVER T-NUTS AND INSTALL FIRST SCREW LOOSELY THRU RETAINER INTO T-NUT.
7. PUSH PIVOT RETAINER AND T-NUTS AGAINST PIVOT ADAPTER (SEE FIGURE 5).
8. INSERT LOCKING PIECE AGAINST PIVOT ADAPTER AND INSTALL SECOND SCREW LOOSELY THRU LOCKING PIECE AND RETAINER INTO T-NUT.
9. CHECK FLOOR CLEARANCES WITHIN THE ENTIRE SWING ARC OF THE DOOR. ADJUST THE FLOOR CLEARANCE USING JACK SCREWS LOCATED ON FLOOR CLOSER.
10. ADJUST DOOR IN DOOR OPENING AND TIGHTEN BOTH ADJUSTABLE TOP PIVOT SCREWS.
11. ADJUST FLOOR CLOSER OPERATION PER MANUFACTURER'S INSTRUCTIONS.
12. REPLACE CLOSER COVER PLATE AND COVER PLATE TAB UNDER FINISH RING.
13. INSTALL SNAP-IN FILLER STRIPS IN CEILING CHANNEL (SEE FIGURE 6)

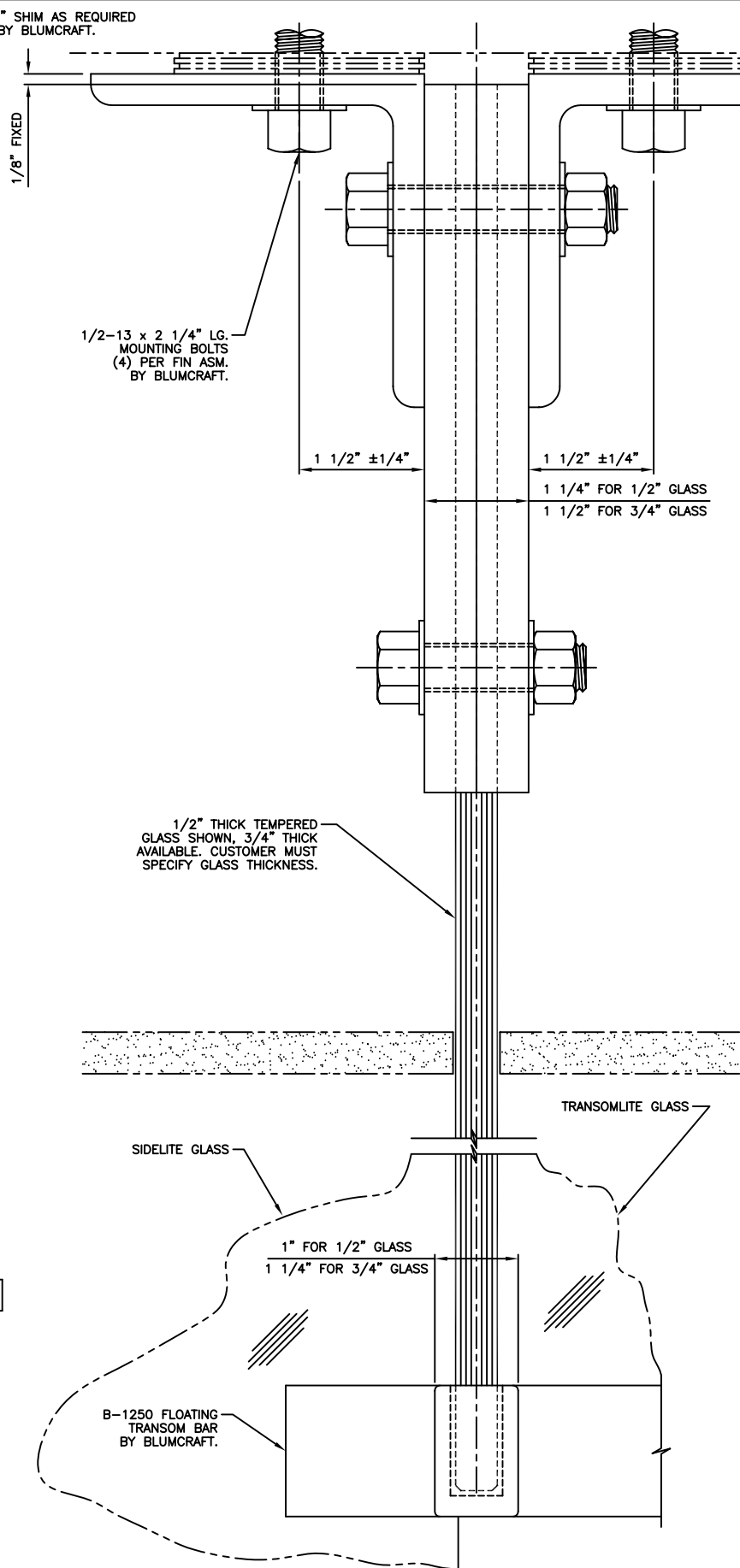
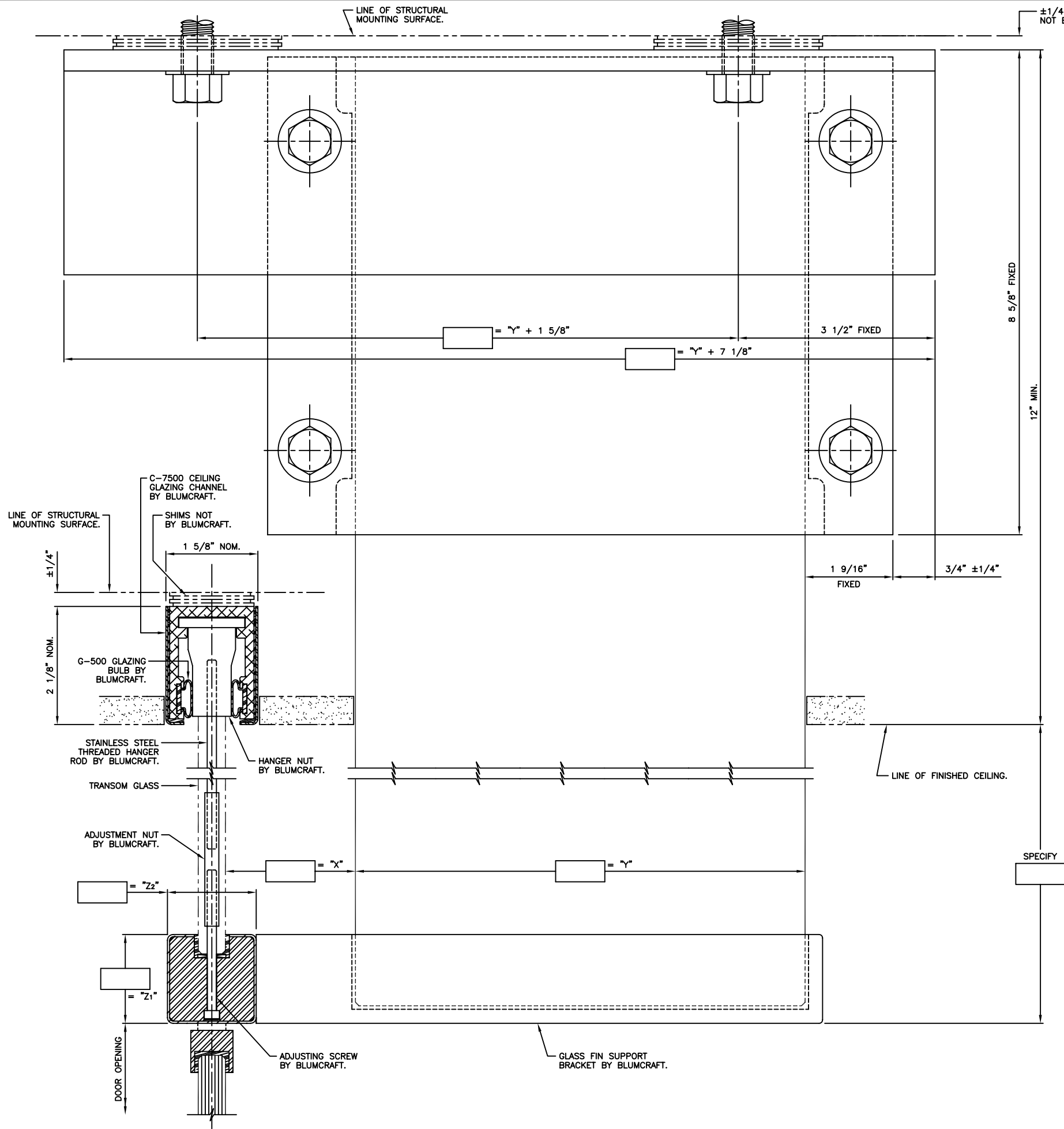
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SCALE NTS

DWG. NO.	NS-807
	SHEET 2 OF 2



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DIMENSIONS			
-	1/2" TRANSOM GL.	3/4" TRANSOM GL.	
"X"	2 5/16" MIN. (STD.) 6" MAX.	2 3/16" MIN. (STD.) 6" MAX.	
"Y"	TO BE DETERMINED BY CUSTOMERS STRUCTURAL ENGINEERS CALCULATIONS		
"Z1" & "Z2"	TO BE DETERMINED BY CUSTOMERS STRUCTURAL ENGINEERS CALCULATIONS (STD. 1 1/2" STEEL SQUARE BAR, 1 9/16" NOMINAL CLAD.)		

NOTE: CUSTOMER ASSUMES FULL RESPONSIBILITY OF SIZING OF TRANSOM BAR AND FIN STRUCTURES. THESE COMPONENTS CAN BE SUPPLIED BY BLUMCRAFT PER CUSTOMERS SPECIFICATIONS.

CAUTION: HANGER ROD(S) IS PRIMARY A SAFETY COMPONENT IN THE EVENT OF SIDELITE FAILURE. SECONDARY IT MAY BE USED AT INSTALLATION FOR LEVELING THE TRANSOM BAR. THE HANGER ROD(S) MUST BE USED. FAILURE TO USE HANGER ROD(S) WILL CONSTITUTE A SAFETY HAZARD & VOID BLUMCRAFTS WARRANTY.

BLUMCRAFT ACCEPTS NO RESPONSIBILITY FOR STRUCTURAL INTEGRITY OF ANY STRUCTURE NOT BY BLUMCRAFT.

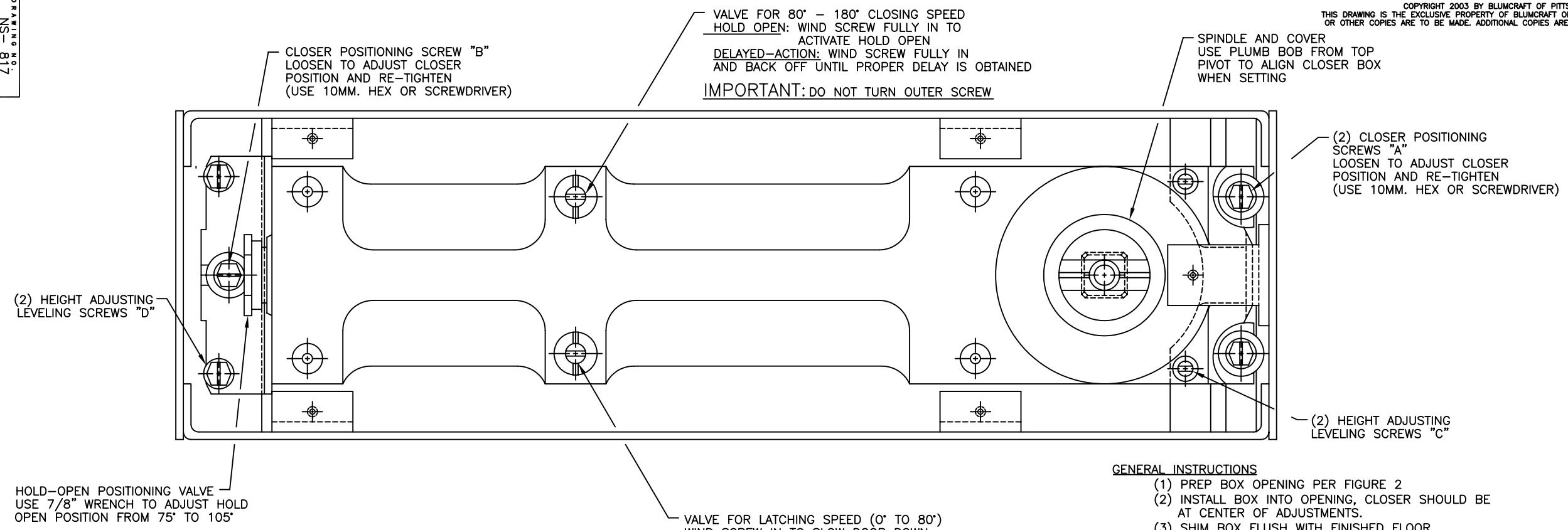
CUSTOMER'S APPROVAL  
FOR DESIGN, QUANTITIES, DIMENSIONS & FINISH

FIRM: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

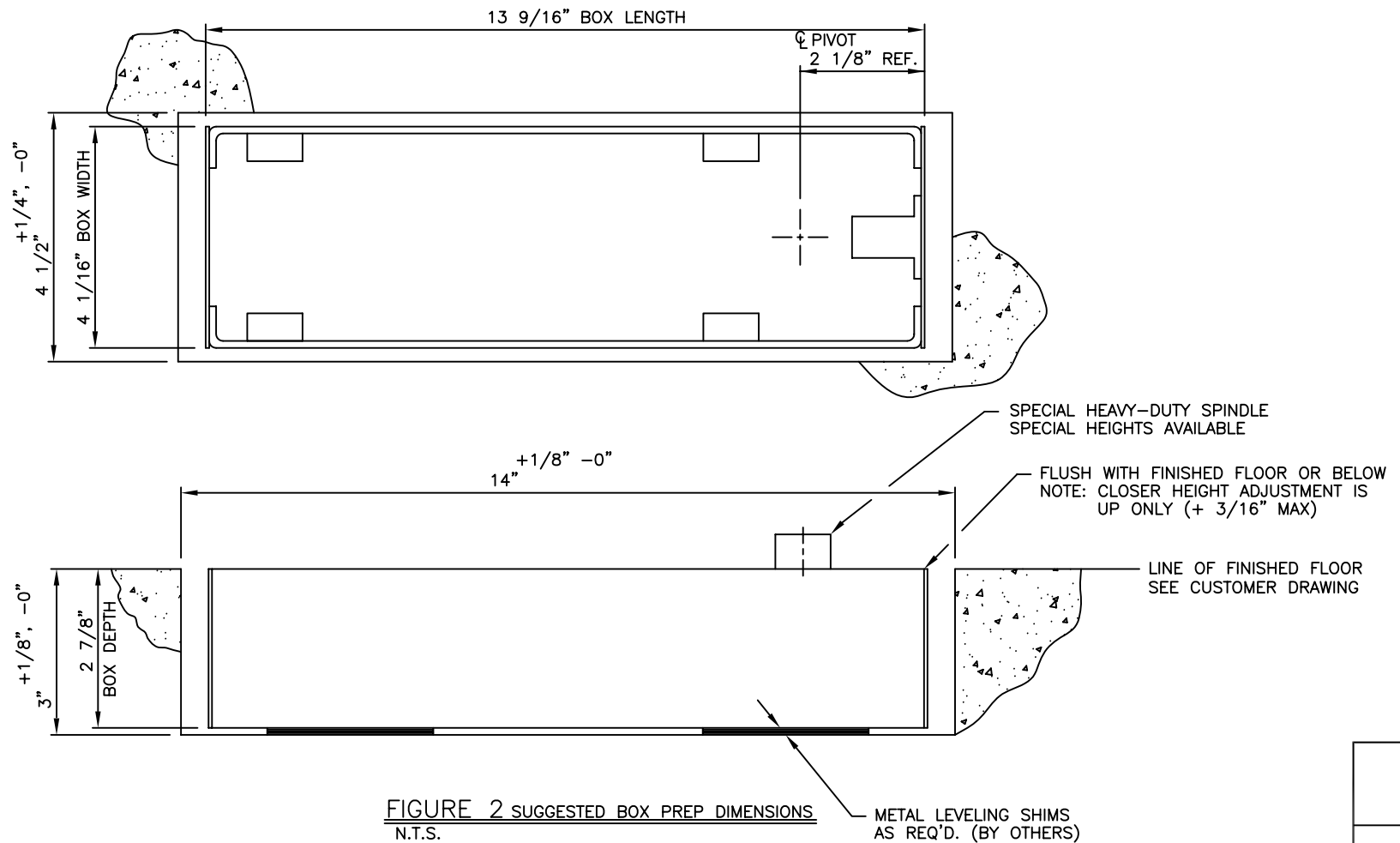
TOLERANCES: + DECIMALS + FRACTIONS		UNLESS OTHERWISE SPECIFIED	
B-1250 FLOATING TRANSOM BAR WITH GLASS FIN WORK SHEET		JOB NUMBER	
DWG. NO. NS-813		DATE	
REVISIONS		DATE	
C		REDRAWN ON CAD	
5/12/03		TA	
DATE		ON	
CH		CH	
DRAWN BY		BW 6/24/92	
CHECKED BY		FULL SIZE	
SCALE		FULL SIZE	



**FIGURE 1 CLOSER ADJUSTMENTS**  
FULL SIZE

**GENERAL INSTRUCTIONS**

- (1) PREP BOX OPENING PER FIGURE 2
  - (2) INSTALL BOX INTO OPENING, CLOSER SHOULD BE AT CENTER OF ADJUSTMENTS.
  - (3) SHIM BOX FLUSH WITH FINISHED FLOOR
  - (4) USE PLUMB BOB FROM TOP PIVOT TO ALIGN CLOSER
  - (5) GROUT BOX USING NON-SHRIKING OR EXPANING GROUT
  - (6) INSTALL DOOR PER INSTRUCTIONS
  - AFTER DOOR IS INSTALLED:**
    - (7) LINE UP DOOR WITH ADJACENT DOORS/SIDELITES  
LOOSEN SCREWS "A" & "B" & MOVE CLOSER FROM SIDE TO SIDE
    - (8) ADJUST LEADING END OF DOOR IN/OUT  
LOOSEN SCREW "B" & SLIGHTLY LOOSEN SCREWS "A" -MOVE  
LEADING END OF CLOSER FROM SIDE TO SIDE
    - (9) ADJUST HEIGHT OF DOOR  
LOOSEN SCREWS "A" -WIND IN SCREWS "C" TO RAISE DOOR -  
RE-TIGHTEN SCREWS "A" -LOOSEN SCREWS "C" -LEVEL CLOSER  
BY WINDING IN SCREWS "D" RE-TIGHTEN SCREWS "B"
    - (10) ADJUST GAPS BETWEEN ADJACENT DOORS/SIDELITE  
LOOSEN SCREWS "A" & "B" SLIGHTLY - MOVER CLOSER FROM END TO END
    - (11) ADJUST CLOSING SPEED & HOLD-OPEN /DELAYED ACTION  
TURN VALVE SCREWS AS INDICATED ABOVE
- TIGHTEN ALL SCREWS AFTER ADJUSTMENTS ARE MADE**



**FIGURE 2 SUGGESTED BOX PREP DIMENSIONS**  
N.T.S.

TOLERANCES: + DECIMALS - FRACTIONS  
UNLESS OTHERWISE SPECIFIED

B	REDRAW ON CAD	1/13/03	KC	-
A	REV. AND REDRAWN	11/03/98	RIZZO	-
	REVISIONS	DATE	DN	CH

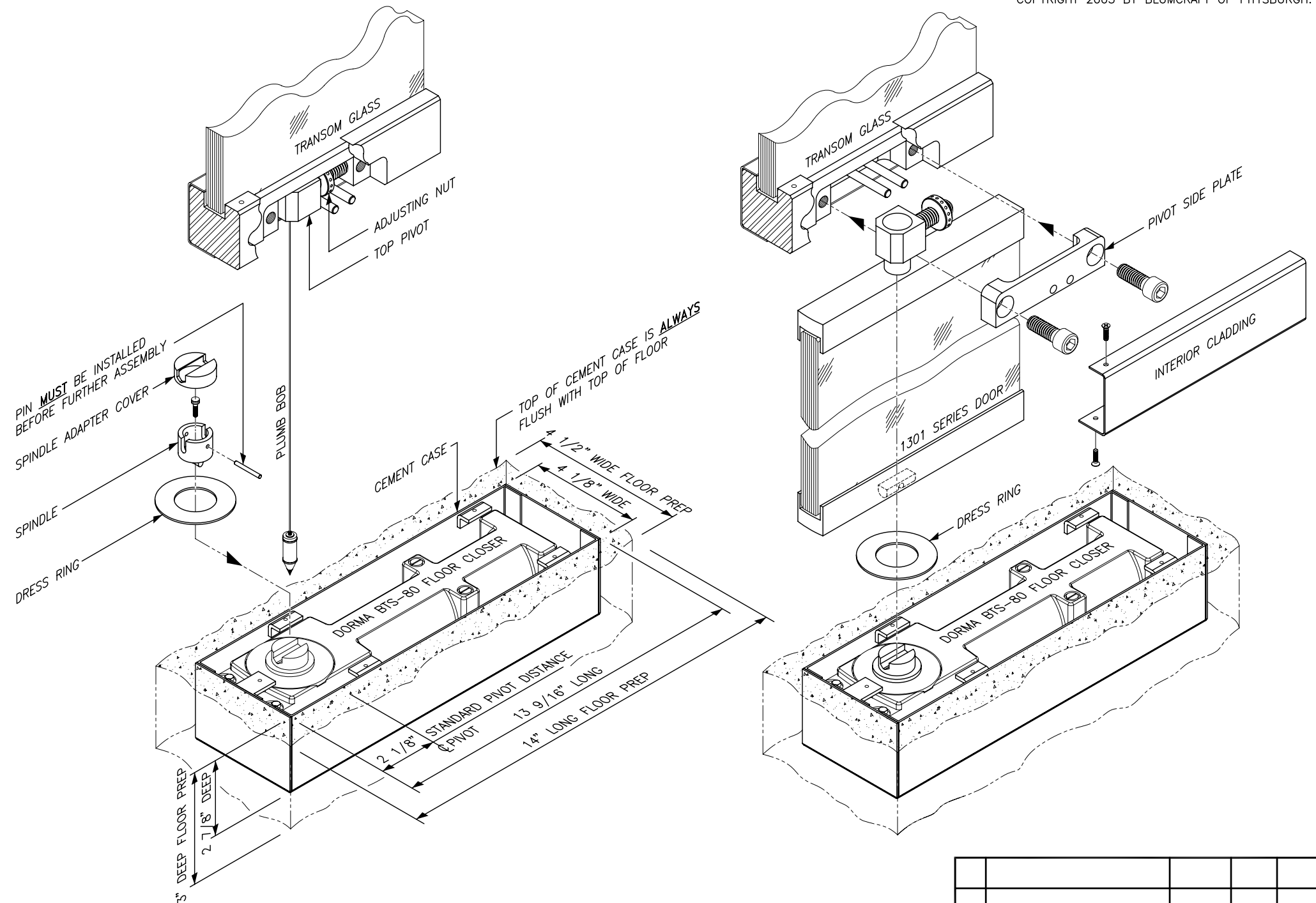
*Blumcraft* OF PITTSBURGH

INSTALLATION & ADJUSTMENT INSTRUCTIONS FOR  
BLUMCRAFT CEMENT CASE WITH DORMA BTS-80  
FLOOR CLOSER

DRAWN BY	DJD 11/5/92
CHECKED BY	-
SCALE	AS NOTED
JOB NUMBER	-
DWG. NO.	NS-817
	SHEET 1 OF 1

**INSTRUCTIONS**

1. INSTALL TRANSOM BAR PER INSTRUCTIONS.
2. SET UPPER PIVOT IN TRANSOM BAR TO PROPER DIMENSION. DROP PLUMB LINE TO SET THE CLOSER.
3. PREP THE CEMENT CASE OPENING. THE CEMENT CASE **MUST** FIT FLUSH OR SLIGHTLY BELOW THE FINISHED FLOOR. USE NON-SHRINKING GROUT TO SET THE CEMENT CASE.
4. REMOVE THE CLADDING FROM THE INTERIOR SIDE OF THE TRANSOM BAR. REMOVE THE TWO SET SCREWS HOLDING THE SIDE PLATE. REMOVE THE PLATE AND UPPER PIVOT.
5. PLACE THE UPPER PIVOT ON THE PIN ON THE TOP OF DOOR.
6. MAKE SURE THAT THE DRESS RING IS IN PLACE ON THE CLOSER SPINDLE AND THAT THE SPINDLE, PIN, AND COVER PLATE ARE IN PLACE ON THE CLOSER.
7. SET THE DOOR ONTO THE CLOSER AND SWING THE DOOR INTO THE TRANSOM BAR, MAKING SURE THAT THE UPPER PIVOT ADJUSTING NUT FALLS BETWEEN THE TWO PINS.
8. REPLACE THE PIVOT SIDE PLATE INTO THE TRANSOM BAR AND TIGHTEN THE SCREWS. REPLACE THE CLADDING ON THE TRANSOM BAR.
9. ADJUST THE UPPER PIVOT AND ADJUST THE CLOSER IN THE CEMENT CASE AS NECESSARY TO ACHIEVE THE CORRECT CLEARANCES. STANDARD CLEARANCES (UNLESS OTHERWISE SPECIFIED) ARE 1/8" FROM DOOR-TO-DOOR OR DOOR-TO-SIDELITE, 1/8" AT THE TOP OF THE DOOR, AND 3/16" AT THE BOTTOM OF DOOR.
10. ADJUST THE CLOSING SPEED, LATCHING SPEED, HOLD-OPEN, OR DELAY ACTION PER THE UNIT INSTRUCTIONS WITH THE CLOSER.
11. LIFT THE DRESS RING AND INSTALL THE COVER PLATES OR THRESHOLD ON THE CEMENT CASE.



TOLERANCES: + .005 - .005 + 1/64 - 1/64  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

A	CONVERTED TO CADD	9/6/05	MT	
	REVISIONS	DATE	DN	CH

*Blumcraft*

OF PITTSBURGH

DRAWN BY TA/MT 9/6/2005

CHECKED BY —

SCALE NTS

INSTALLATION OF 1301 SERIES DOOR WITH  
B-1250 TRANSOM BARDWG. NO. NS-822  
SHEET 1 OF 1

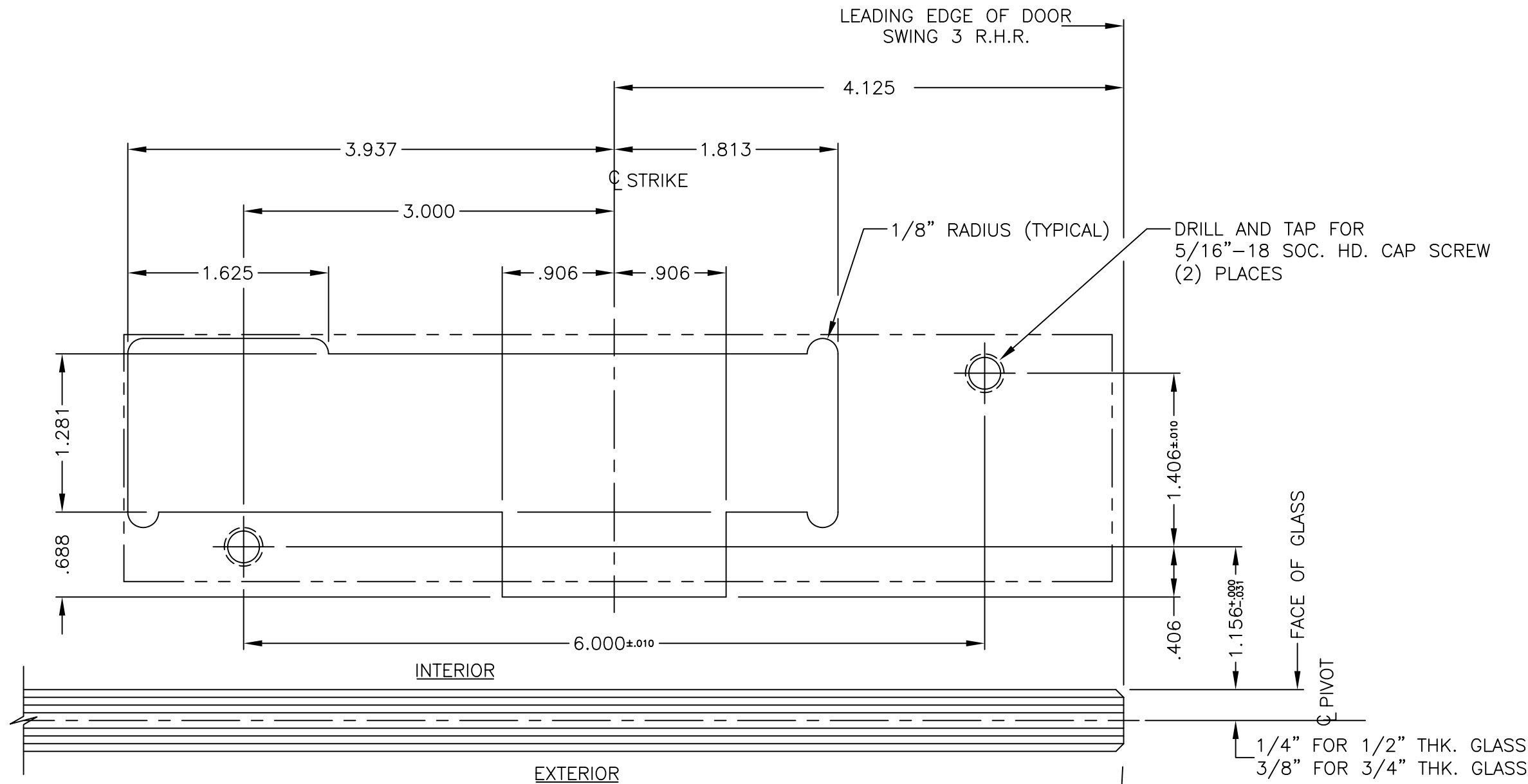


TOLERANCES:  $+.005$   $-.005$   $+\frac{1}{64}"$   $-\frac{1}{64}"$   
UNLESS OTHERWISE SPECIFIED      DECIMALS      FRACTIONS

DRAWN BY	KC
CHECKED BY	—
SCALE	FULL

JOB NUMBER	-
DWG. NO.	NS-826
	SHEET 1 OF 1

DRAWING NO.  
NS-827



TOLERANCES: + .005 - .005 + 1/64 - 1/64  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

B	THIS SHEET ADDED	5-11-02	RIZZO	
	REVISIONS	DATE	DN	CH

*Blumcraft*

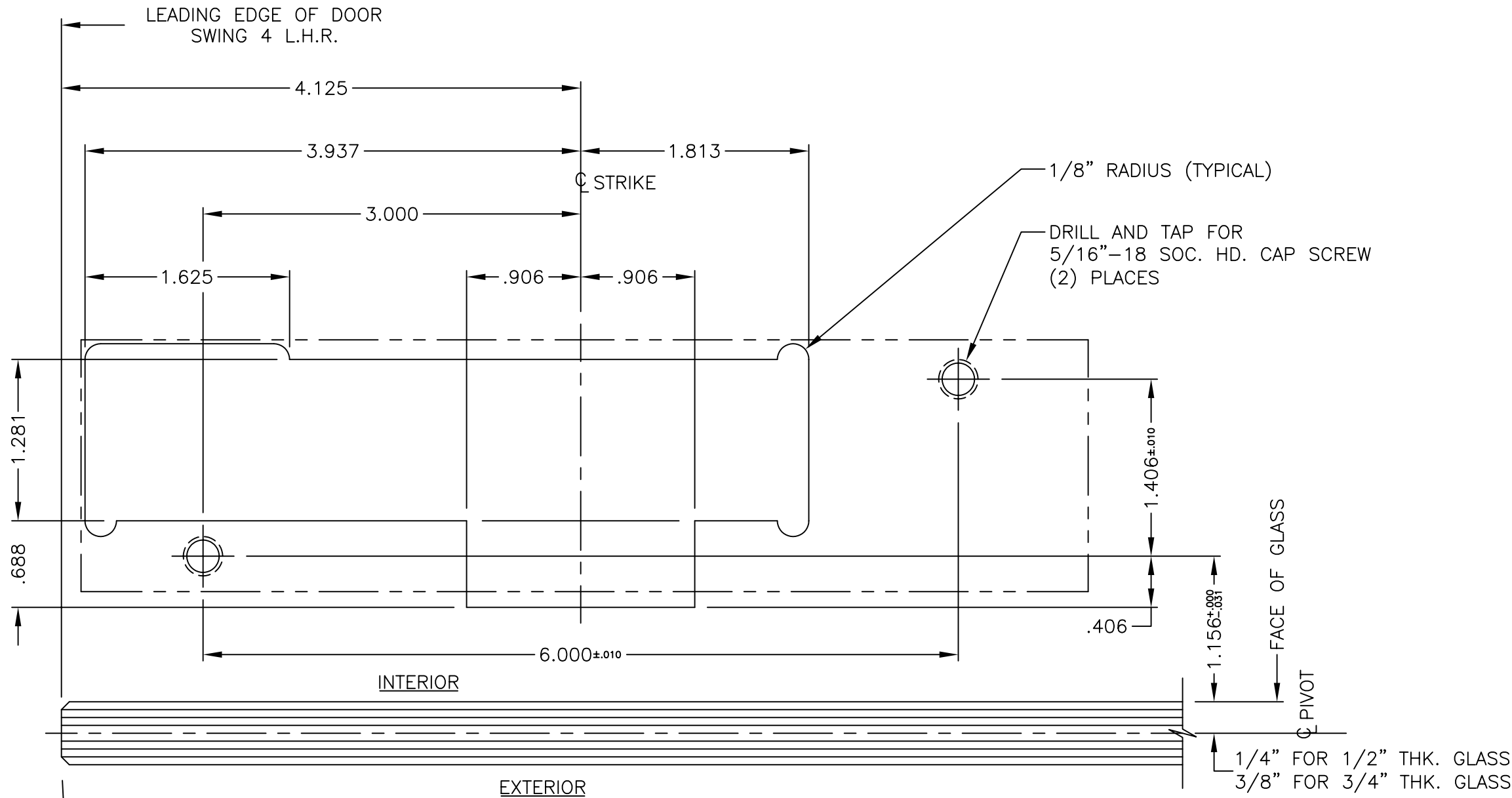
O F P I T T S B U R G H

DRAWN BY  
CHECKED BY  
SCALE FULL SIZE

HEADER PREP. FOR FOLGER ADAMS 310-1 ELECTRIC STRIKE  
ON A CUSTOMER'S SINGLE DOOR SWING 3 R.H.R.

DWG. NO. NS-827  
SHEET 2 OF 2

DRAWING NO.  
NS-827



VIEW SHOWN FROM BELOW

TOLERANCES: + .005 - .005 + 1/64 - 1/64  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

B	REV. & REDRAWN ON C.A.D.	5-11-02	RIZZO	
A	1 5/32" WAS 1 1/16"	9-8-95	D.D.	
	REVISIONS	DATE	DN	CH

*Blumcraft*

O F P I T T S B U R G H

DRAWN BY CHAZ 1-18-97

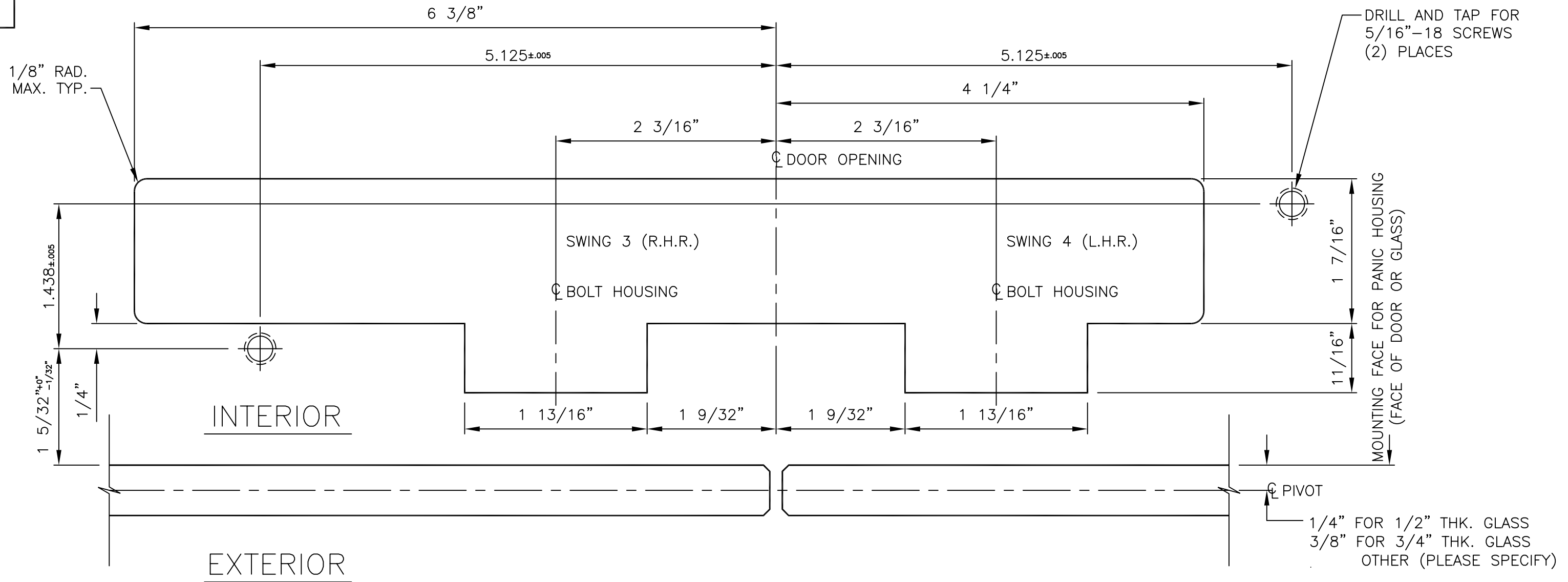
CHECKED BY -

SCALE FULL SIZE

HEADER PREP. FOR FOLGER ADAMS 310-1 ELECTRIC STRIKE  
ON A CUSTOMER'S SINGLE DOOR SWING 4 L.H.R.

DWG. NO. NS-827

SHEET 1 OF 2

VIEW LOOKING UP INTO HEADER

A	REDRAWN ON C.A.D.	10-11-02	RIZZO	
	REVISIONS	DATE	DN	CH

TOLERANCES: +.005 -.005 + 1/64 - 1/64  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

*Blumcraft*

OF PITTSBURGH

DRAWN BY D.D. 8-2-95

CHECKED BY -

SCALE FULL

TEMPLATE FOR MOUNTING SPECIAL DOOR STOP/STRIKE/LATCH  
KEEPER FOR H-100 PANIC & FOLGER-ADAMS 310-1-1 E/S

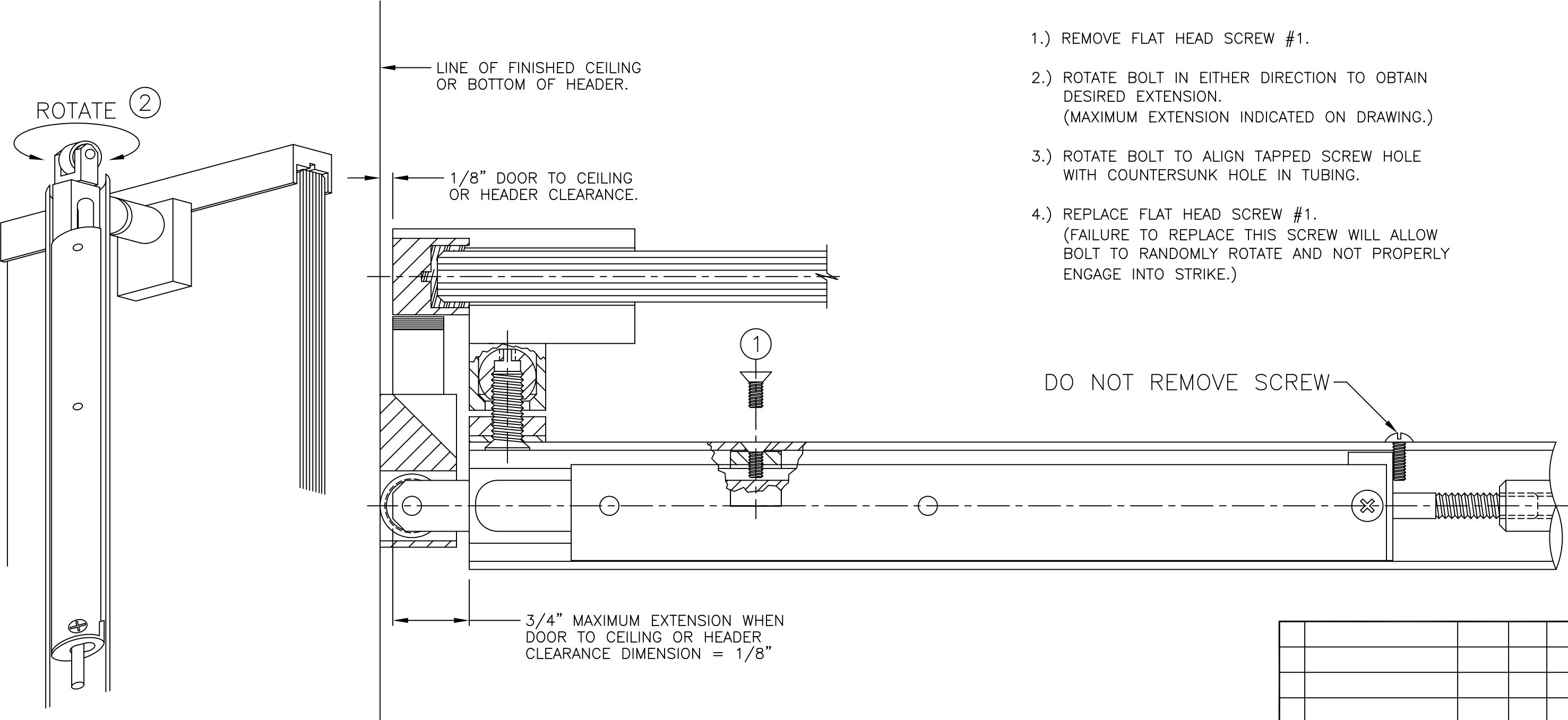
DWG. NO. NS-829

SHEET 1 OF 1

DRAWING NO.  
NS-831

TO ACHIEVE PROPER ENGAGEMENT  
OF BOLT INTO STRIKE:


- 1.) REMOVE FLAT HEAD SCREW #1.
- 2.) ROTATE BOLT IN EITHER DIRECTION TO OBTAIN  
DESIRED EXTENSION.  
(MAXIMUM EXTENSION INDICATED ON DRAWING.)
- 3.) ROTATE BOLT TO ALIGN TAPPED SCREW HOLE  
WITH COUNTERSUNK HOLE IN TUBING.
- 4.) REPLACE FLAT HEAD SCREW #1.  
(FAILURE TO REPLACE THIS SCREW WILL ALLOW  
BOLT TO RANDOMLY ROTATE AND NOT PROPERLY  
ENGAGE INTO STRIKE.)

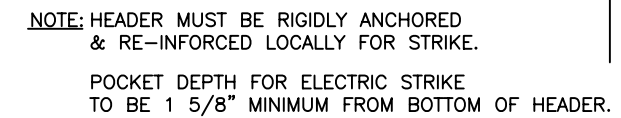



FOR OLD CONSTRUCTION SEE NS-718

TOLERANCES:  $\pm .005$  DECIMALS  $\pm \frac{1}{64}$  FRACTIONS  
UNLESS OTHERWISE SPECIFIED

A	REDRAWN ON AutoCAD	8/22/00	CK	TR
	REVISIONS	DATE	DN	CH

 OF PITTSBURGH		DRAWN BY	
		CHECKED BY	
		SCALE	
BOLT ADJUSTMENT ON PANIC HOUSING H-100		DWG. NO. NS-831	



TOLERANCES: $\pm .005$ — .005 — $\pm \frac{1}{64}$ — $\frac{1}{64}$ UNLESS OTHERWISE SPECIFIED      DECIMALS      FRACTIONS		REVISIONS DATE      DN      CH	
 OF PITTSBURGH		DRAWN BY T.A. 5-22-97	
		CHECKED BY —	
		SCALE FULL	
TEMPLATE FOR MOUNTING SPECIAL DOOR STOP/STRIKE/LATCH KEEPER FOR 6 1/8" STRIKE CENTERS —		JOB NUMBER HD-4612	
		DWG. NO. NS-839 SHEET 1 OF 1	

DRAWING NO.  
NS-840

**DOOR INSTALLATION**

**CAUTION:** FAILURE TO COMPLY WITH BLUMCRAFT'S INSTRUCTION SHEET WILL VOID ANY WARRANTIES.

THE TOP AND BOTTOM RAILS **MUST NEVER** BE GRABBED, CLAMPED, OR PULLED DURING THE INSTALLATION.

AS WITH ANY TEMPERED GLASS DOOR, INSTALLATION MUST BE COMPLETED USING SUCTION CUPS OR LEATHER GLOVES TO SUPPORT THE GLASS. IN OTHER WORDS, THE TOP AND BOTTOM RAILS ARE NOT INTENDED TO SERVE AS HANDLES TO CARRY AND LIFT THE DOOR INTO PLACE.

**NOTE:** THESE INSTRUCTIONS SHOULD BE USED IN CONJUNCTION WITH BLUMCRAFT SHOP DRAWINGS (WHEN APPLICABLE). DOOR OPENINGS AND TOLERANCES MUST BE ADHERED TO IN ORDER FOR BLUMCRAFT DOOR SYSTEMS TO FUNCTION PROPERLY.

**INSTALLATION INSTRUCTIONS**

1. ACCURATELY LOCATE AND MOUNT AP-150 TOP PIVOT RECEPTACLE WITH SCREWS PROVIDED AT CENTER OF ADJUSTMENT SLOT.
2. USE PLUMB BOB FROM AP-150 TOP PIVOT RECEPTACLE TO ALIGN BP-150 BOTTOM PIVOT (SEE **FIGURE 1**) SECURELY MOUNT BP-150 BOTTOM PIVOT RECEPTACLE WITH SCREWS PROVIDED AT CENTER OF ADJUSTMENT SLOT.
3. REMOVE AP-150 TOP PIVOT RECEPTACLE AND PLACE ON DISPLAY DOOR TOP RAIL PIVOT PIN. (SEE **FIGURE 2**)
4. LIFT THE DISPLAY DOOR AND SET THE BOTTOM MUSHROOM PIVOT ON BP-150 BOTTOM PIVOT RECEPTACLE AND TILT DOOR INTO OPENING. (SEE **FIGURE 3**)

CONTINUED ON SHEET 2

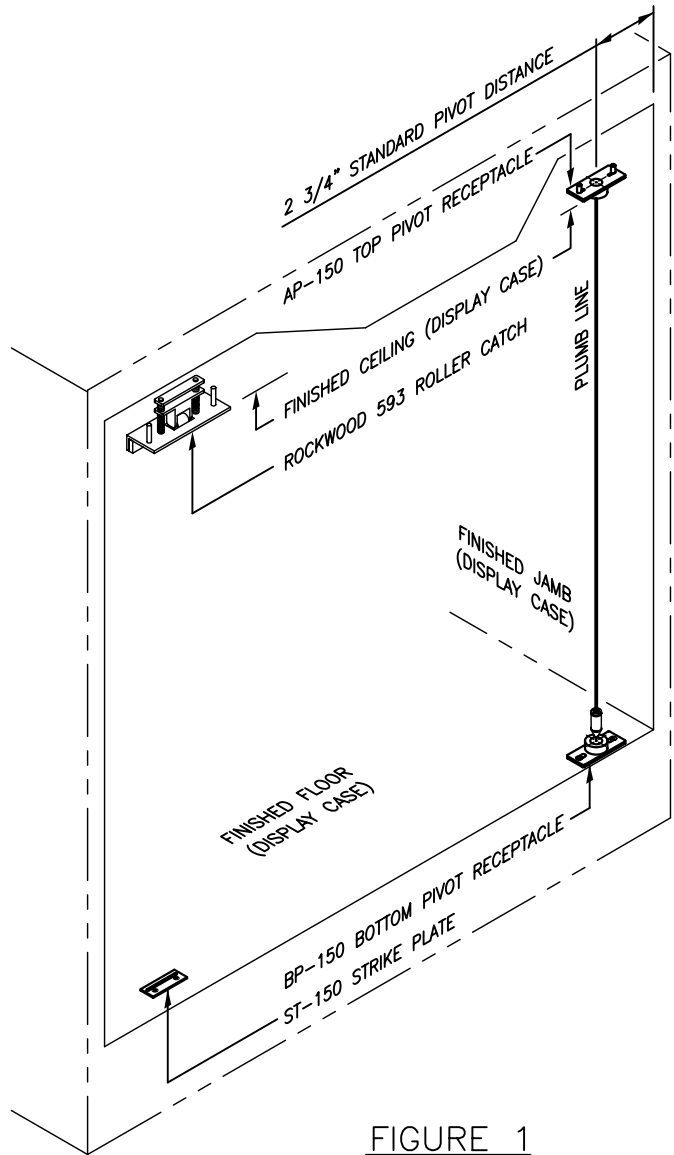


FIGURE 1

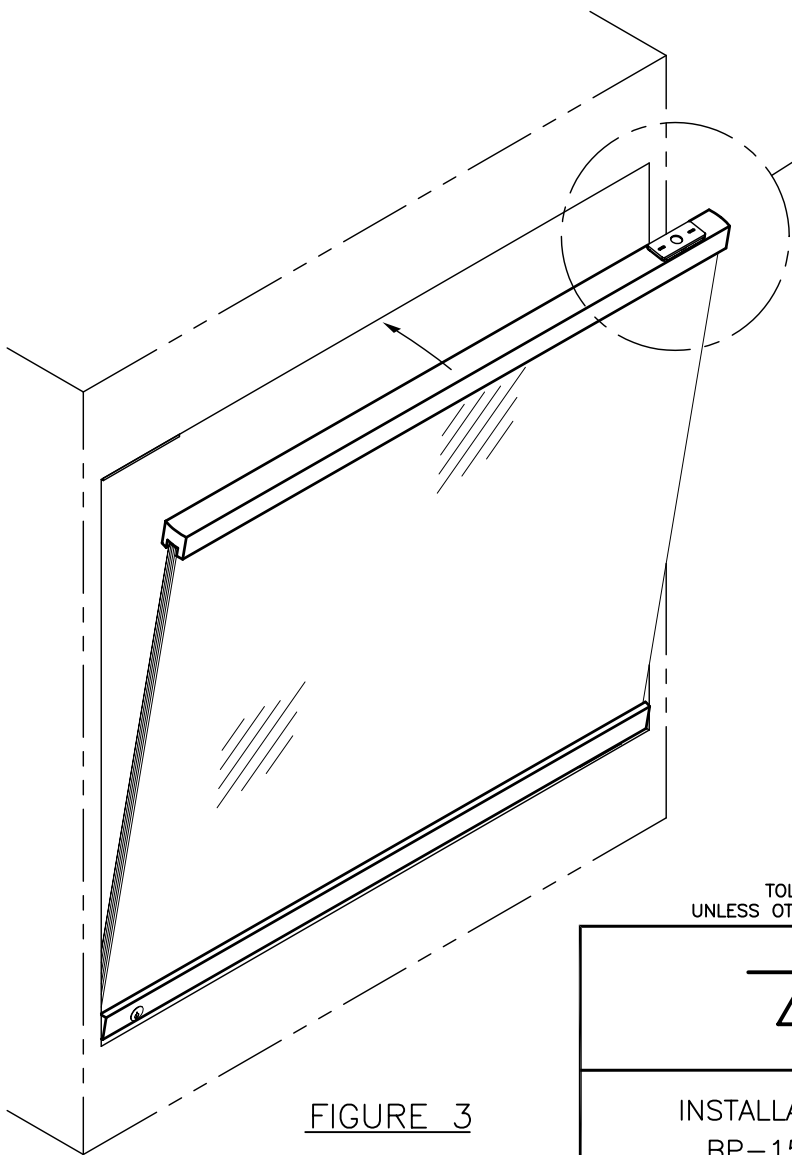


FIGURE 3

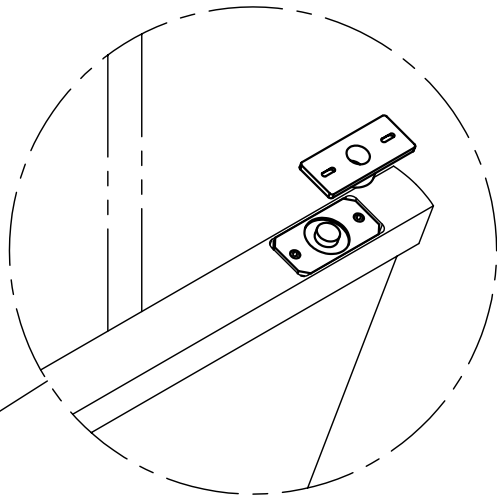


FIGURE 2

TOLERANCES:  
UNLESS OTHERWISE SPECIFIED

+0.005 -0.005 +1/64 -1/64  
DECIMALS FRACTIONS

A	REDRAWN IN C.A.D.	4/20/2004	MCT	
	REVISIONS	DATE	DN	CH

 OF PITTSBURGH		DRAWN BY	
		CHECKED BY	
		SCALE NTS	

INSTALLATION OF 1301 SERIES DISPLAY DOOR WITH  
BP-150 & AP-150 SURFACE MOUNTED PIVOTS

DWG. NO. NS-840  
SHEET 1 OF 2

DRAWING NO.  
NS-840

DOOR INSTALLATION

INSTALLATION INSTRUCTIONS

- 5. SWING THE DOOR IN THE 90° OPEN POSITION TO GAIN ACCESS TO THE AP-150 TOP PIVOT MOUNTING HOLES. (SEE FIGURE 4)
- 6. REINSTALL AP-150 TOP PIVOT RECEPTACLE WITH SCREWS PROVIDED AT CENTER OF ADJUSTMENT SLOT.
- 7. ALIGN DOOR GAPS TO ADJACENT DOOR/SIDELITE BY LOOSENING THE PIVOT RECEPTACLE MOUNTING SCREWS AND MOVING DOOR TO THE DESIRED LOCATION, RE-TIGHTEN MOUNTING SCREWS.

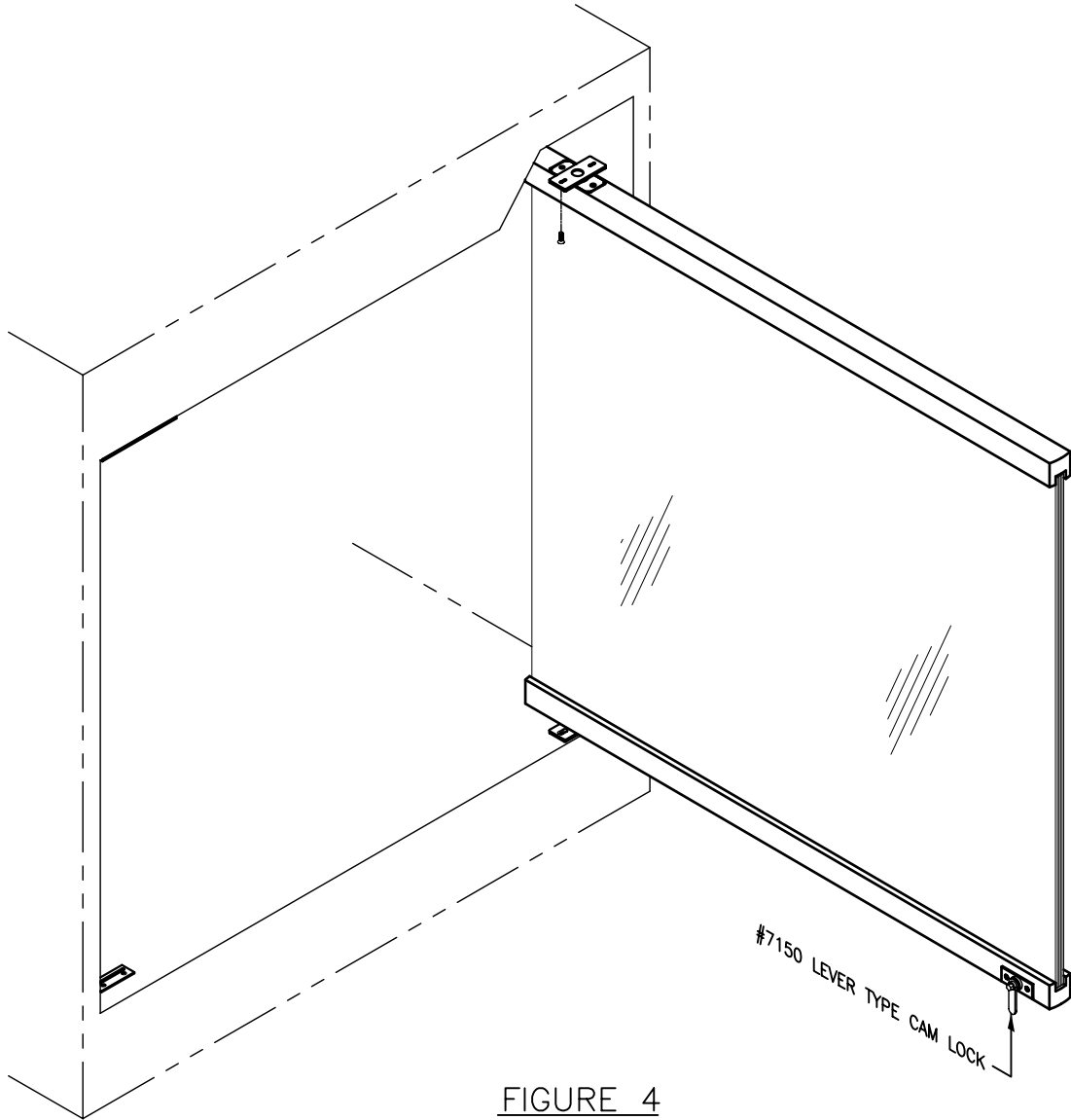
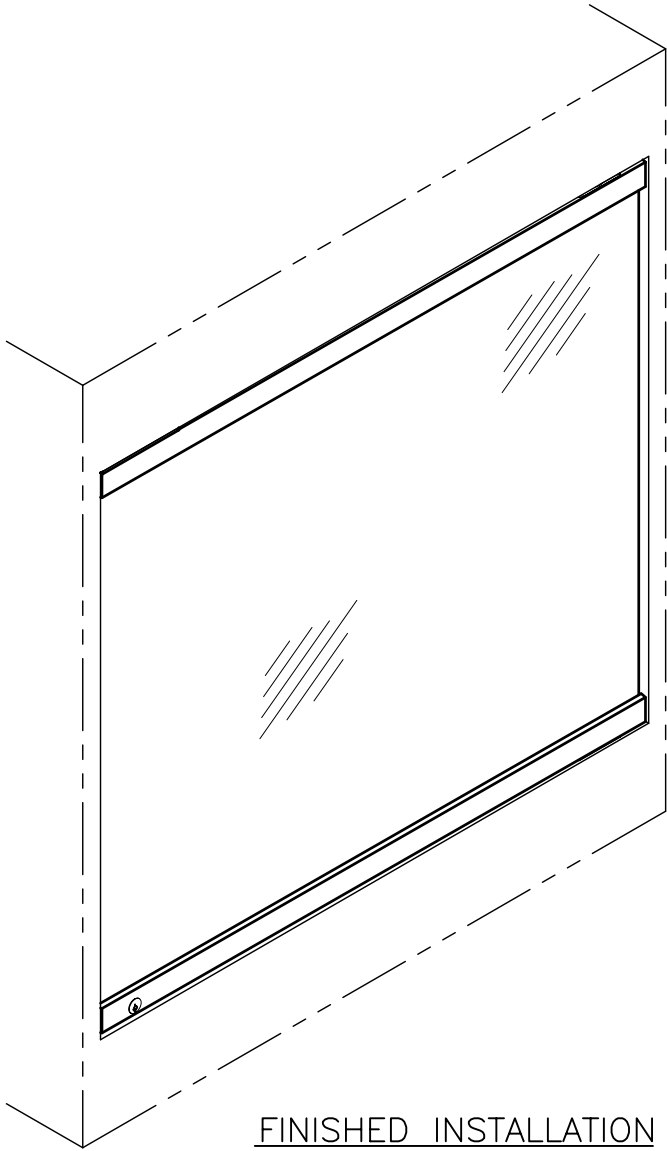


FIGURE 4



FINISHED INSTALLATION

TOLERANCES:  
UNLESS OTHERWISE SPECIFIED

+0.005 -0.005 +1/64 -1/64  
DECIMALS FRACTIONS

A	REDRAWN IN C.A.D.	4/20/2004	MCT	
	REVISIONS	DATE	DN	CH

<div>Blumcraft</div> <div>OF PITTSBURGH</div>	DRAWN BY	
	CHECKED BY	
	SCALE NTS	
INSTALLATION OF 1301 SERIES DISPLAY DOOR WITH BP-150 & AP-150 SURFACE MOUNTED PIVOTS	DWG. NO. NS-840	
	SHEET 2 OF 2	

DRAWING NO.  
NS-841-1

**DOOR INSTALLATION**

**CAUTION:** FAILURE TO COMPLY WITH BLUMCRAFT'S INSTRUCTION SHEET WILL VOID ANY WARRANTIES.

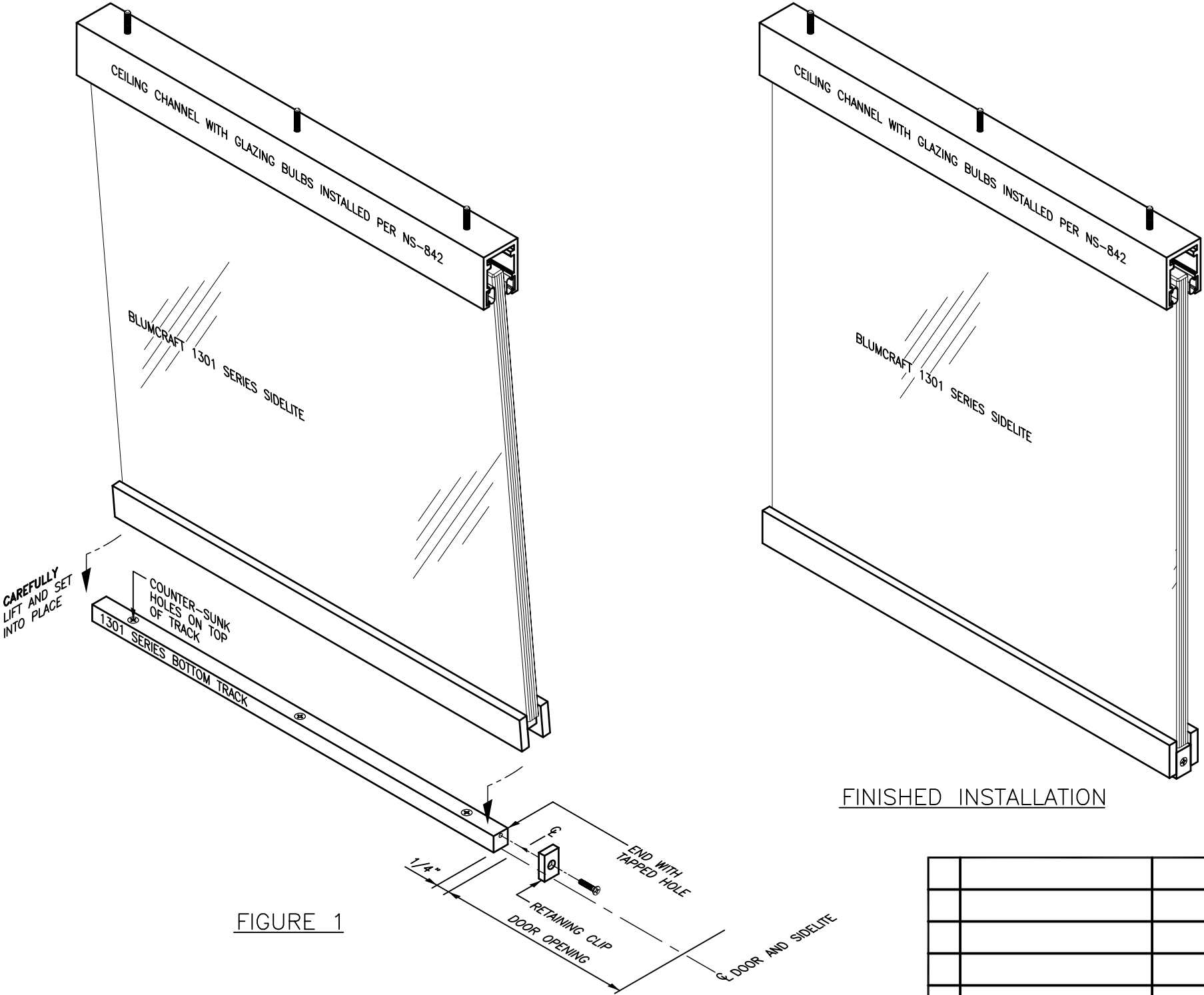
THE TOP AND BOTTOM RAILS **MUST NEVER** BE GRABBED, CLAMPED, OR PULLED DURING THE INSTALLATION.

AS WITH ANY TEMPERED GLASS DOOR, INSTALLATION MUST BE COMPLETED USING SUCTION CUPS OR LEATHER GLOVES TO SUPPORT THE GLASS. IN OTHER WORDS, THE TOP AND BOTTOM RAILS ARE NOT INTENDED TO SERVE AS HANDLES TO CARRY AND LIFT THE DOOR INTO PLACE.

**NOTE:** THESE INSTRUCTIONS SHOULD BE USED IN CONJUNCTION WITH BLUMCRAFT SHOP DRAWINGS (WHEN APPLICABLE). DOOR OPENINGS AND TOLERANCES MUST BE ADHERED TO IN ORDER FOR BLUMCRAFT DOOR SYSTEMS TO FUNCTION PROPERLY.

**INSTALLATION INSTRUCTIONS**


1. LOCATE SIDELITE BOTTOM TRACK ON CENTERLINE OF DOOR AND SIDELITE. USE TRACK AS TEMPLATE FOR MOUNTING SCREW LOCATION. HOLD TRACK BACK 1/4" FROM DOOR OPENING TO ALLOW FOR RETAINER CLIP. SECURELY MOUNT TRACK TO FLOOR.
2. LIFT SIDELITE ONTO SECURELY MOUNTED CEILING CHANNEL AS REQUIRED TO CLEAR TRACK. SWING SIDELITE ABOVE TRACK AND CAREFULLY LOWER SIDELITE ONTO TRACK, ENGAGING BOTTOM RAIL AND TRACK EDGE. EDGE OF SIDELITE RAIL AND GLASS SHOULD BE ALIGNED FLUSH WITH DOOR OPENING.
3. INSTALL RETAINING CLIP WITH SCREW PROVIDED.
4. SILICONE (IF NECESSARY) BETWEEN SIDELITE GLASS AND JAMB WITH GE 1200 CONSTRUCTION SEALANT OR EQUAL (NOT FURNISHED BY BLUMCRAFT).



FINISHED INSTALLATION

TOLERANCES:  
UNLESS OTHERWISE SPECIFIED    +.005    -.005    +1/64    -1/64  
DECIMALS    FRACTIONS

A	REDRAWN IN C.A.D.	4/20/2004	MCT	
	REVISIONS	DATE	DN	CH



OF PITTSBURGH

DRAWN BY

CHECKED BY

SCALE    NTS

INSTALLATION OF 1301 SERIES SIDELITE WITH  
BOTTOM TRACK AND CEILING CHANNEL WITH GLAZING BULBS

DWG. NO.    NS-841-1

SHEET 1 OF 1

DRAWING NO.  
NS-841-2

**DOOR INSTALLATION**

**CAUTION:** FAILURE TO COMPLY WITH BLUMCRAFT'S INSTRUCTION SHEET WILL VOID ANY WARRANTIES.

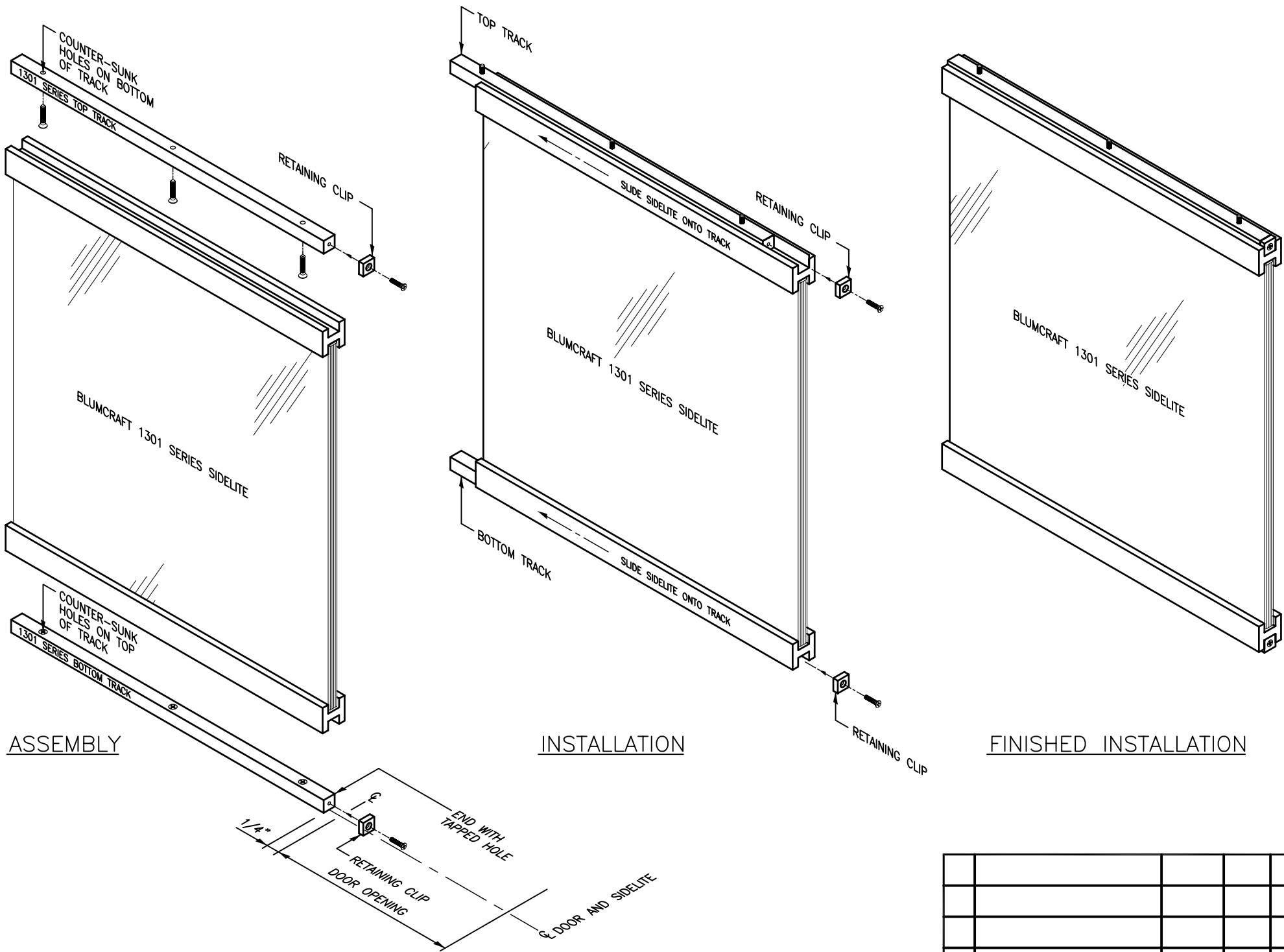
THE TOP AND BOTTOM RAILS **MUST NEVER** BE GRABBED, CLAMPED, OR PULLED DURING THE INSTALLATION.

AS WITH ANY TEMPERED GLASS DOOR, INSTALLATION MUST BE COMPLETED USING SUCTION CUPS OR LEATHER GLOVES TO SUPPORT THE GLASS. IN OTHER WORDS, THE TOP AND BOTTOM RAILS ARE NOT INTENDED TO SERVE AS HANDLES TO CARRY AND LIFT THE DOOR INTO PLACE.

**NOTE:** THESE INSTRUCTIONS SHOULD BE USED IN CONJUNCTION WITH BLUMCRAFT SHOP DRAWINGS (WHEN APPLICABLE). DOOR OPENINGS AND TOLERANCES MUST BE ADHERED TO IN ORDER FOR BLUMCRAFT DOOR SYSTEMS TO FUNCTION PROPERLY.

**INSTALLATION INSTRUCTIONS**

1. LOCATE SIDELITE BOTTOM TRACK ON CENTERLINE OF DOOR AND SIDELITE. USE TRACK AS TEMPLATE FOR MOUNTING SCREW LOCATION. HOLD TRACK BACK 1/4" FROM DOOR OPENING TO ALLOW FOR RETAINER CLIP. SECURELY MOUNT TRACK TO FLOOR.
2. REPEAT STEP 1 FOR TOP TRACK. SECURLY MOUNT TRACK TO HEADER.
3. ALIGN SIDELITE WITH TRACKS AND CAREFULLY SLIDE SIDELITE ALONG TRACKS UNTIL EDGE OF SIDELITE RAIL AND GLASS IS FLUSH WITH SIDELITE OPENING.
4. INSTALL RETAINING CLIPS WITH SCREWS PROVIDED.
5. SILICONE (IF NECESSARY) BETWEEN SIDELITE GLASS AND JAMB WITH GE 1200 CONSTRUCTION SEALANT OR EQUAL (NOT FURNISHED BY BLUMCRAFT).



TOLERANCES:  
UNLESS OTHERWISE SPECIFIED

+0.005   -0.005   +1/64   -1/64  
DECIMALS   FRACTIONS

A	REDRAWN IN C.A.D.	4/20/2004	MCT	
	REVISIONS	DATE	DN	CH

*Blumcraft*

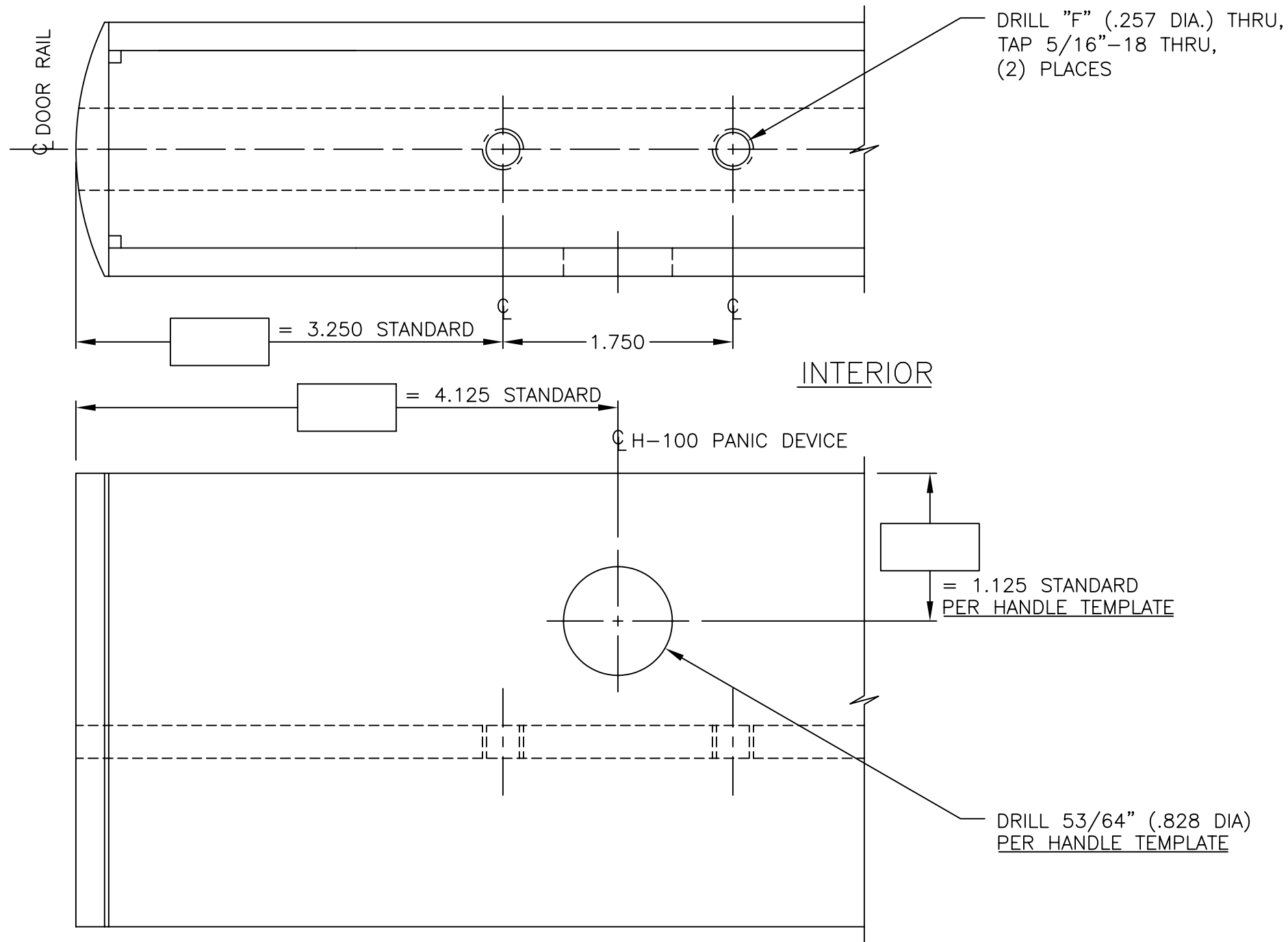
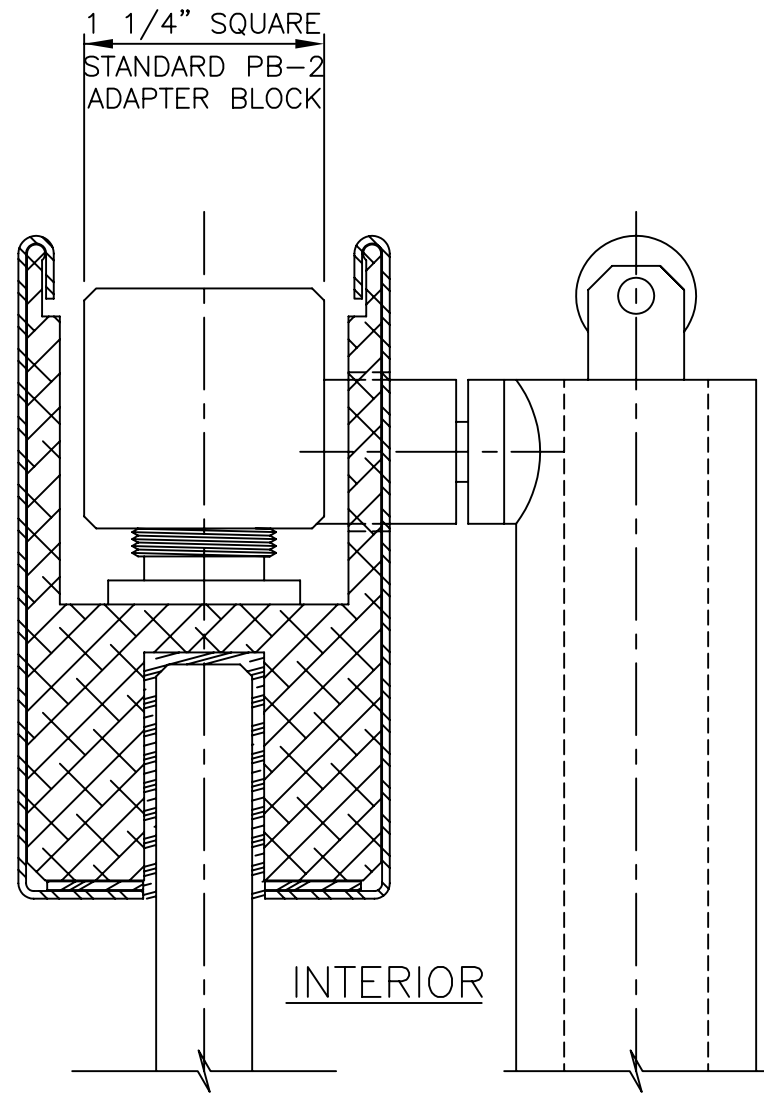
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DRAWN BY  
CHECKED BY  
SCALE      NTS

INSTALLATION OF 1301 SERIES SIDELITE WITH  
TOP AND BOTTOM TRACKS


DWG. NO.      NS-841-2  
SHEET 1 OF 1

DRAWING NO.  
NS-844

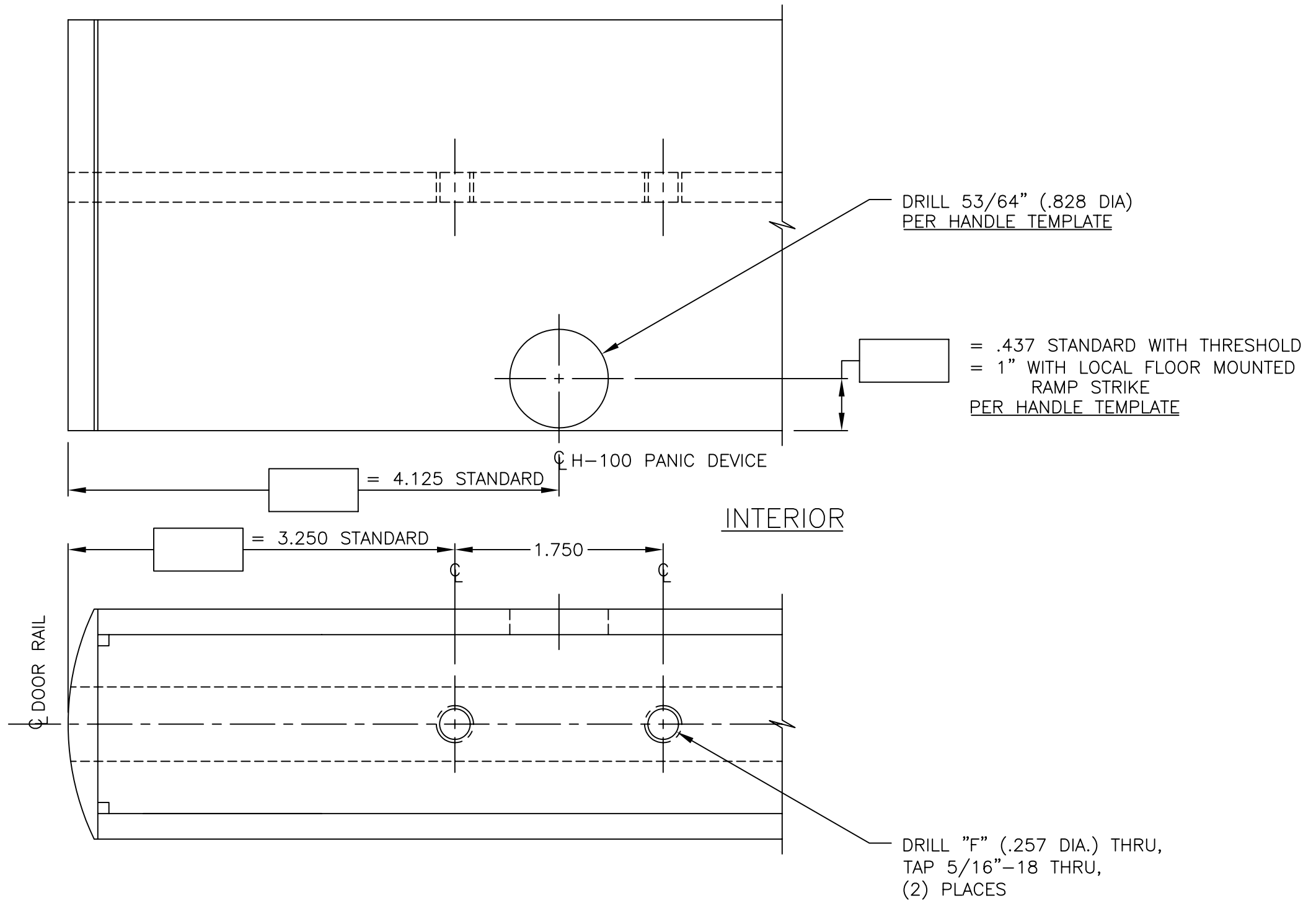
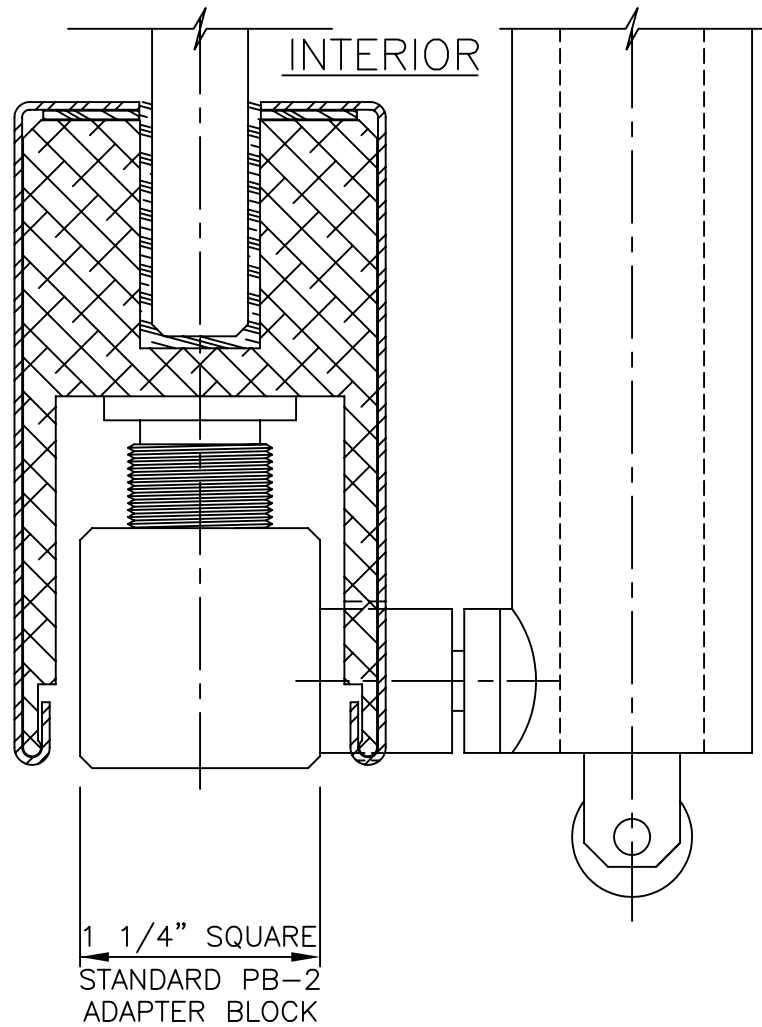


TOLERANCES: + .005 - .005 + 1/64 - 1/64  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

A	REDRAWN ON C.A.D.	2-23-04	RIZZO	-
	REVISIONS	DATE	DN	CH


 OF PITTSBURGH		DRAWN BY T.A. 10-23-98	
		CHECKED BY -	
		SCALE FULL SIZE	
SHOE PREPARATION FOR H-100 PANIC DEVICE WITH STANDARD 1 1/4" SQUARE PB-2 ADAPTER BLOCK		DWG. NO. NS-844 SHEET 1 OF 2	

DRAWING NO.  
NS-844



TOLERANCES: + .005 - .005 + 1/64 - 1/64  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

A	THIS SHT. ADDED	2-23-04	RIZZO	-
	REVISIONS	DATE	DN	CH

 OF PITTSBURGH		DRAWN BY T.A. 10-23-98	
		CHECKED BY -	
		SCALE FULL SIZE	
SHOE PREPARATION FOR H-110 PANIC DEVICE WITH STANDARD 1 1/4" SQUARE PB-2 ADAPTER BLOCK		DWG. NO. NS-844 SHEET 2 OF 2	



- ### ADJUSTMENT

1. LOOSEN ALL SET SCREWS "C" AND "D", AND ADJUST DOOR FOR PLUMB USING ADJUSTING SCREW "E". (NOTE: SCREW "E" IS FOR INITIAL LATERAL ADJUSTMENT ONLY, AND NOT TO BE TIGHTENED AFTER FINAL TIGHTENING OF SCREWS "C" & "D".)
2. USING THE INTERIOR AND EXTERIOR SET SCREWS "C", ADJUST DOOR(S) FOR LEAD EDGE ALIGNMENT. AFTER ALIGNING, SNUG SCREWS "C" TIGHT.
3. IN AN ALTERNATING PATTERN TIGHTEN ALL SET SCREWS "C" AND "D" TO A FINAL TORQUE OF 200 IN-LBS.
4. REPLACE PIVOT COVERS.

	REVISIONS	DATE	DN	CH

TOLERANCES: + .005 - .005 + 1/64 - 1/64  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

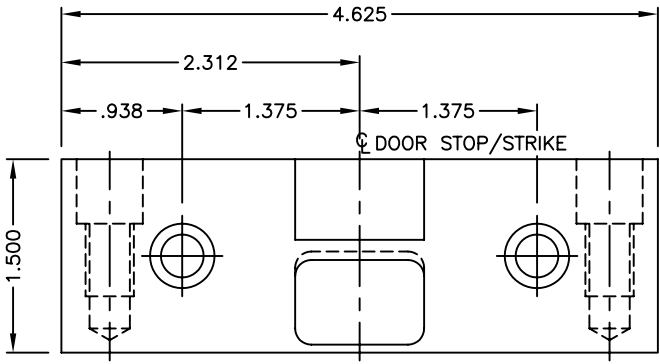
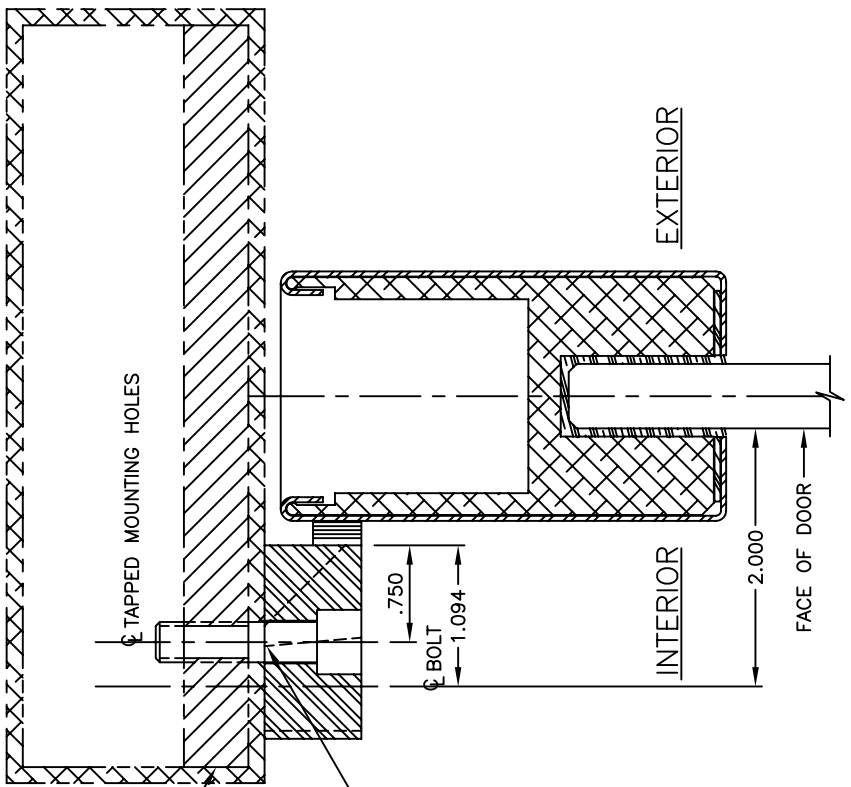
*Glumcraft* OF PITTSBURGH

DRAWN BY	TA 6/23/03
CHECKED BY	—
SCALE	FULL SIZE

1301 DOOR INSTALLATION WITH OVERHEAD CLOSER PIVOT FOR  
HORTON, DOR-O-MATIC, JACKSON, RIXSON, DORMA

DWG. NO. NS-846  
RD-3723

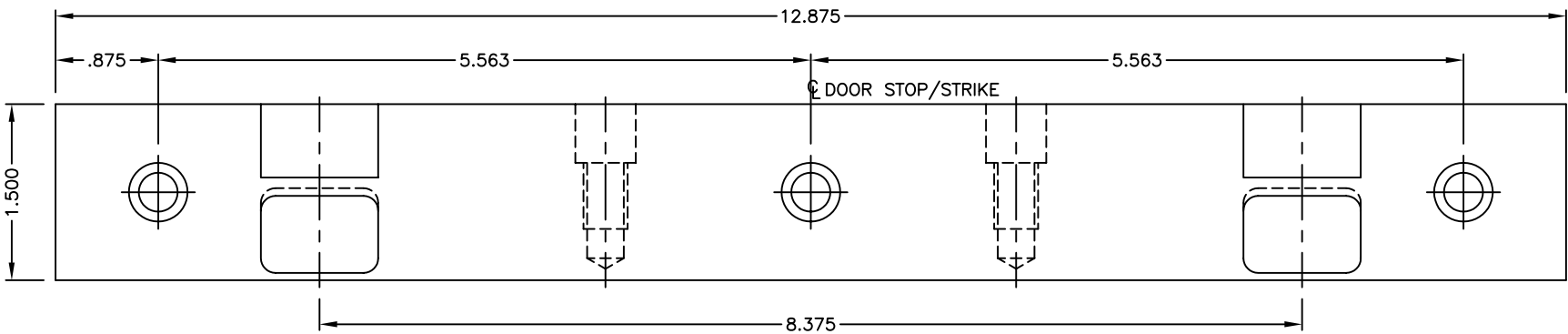
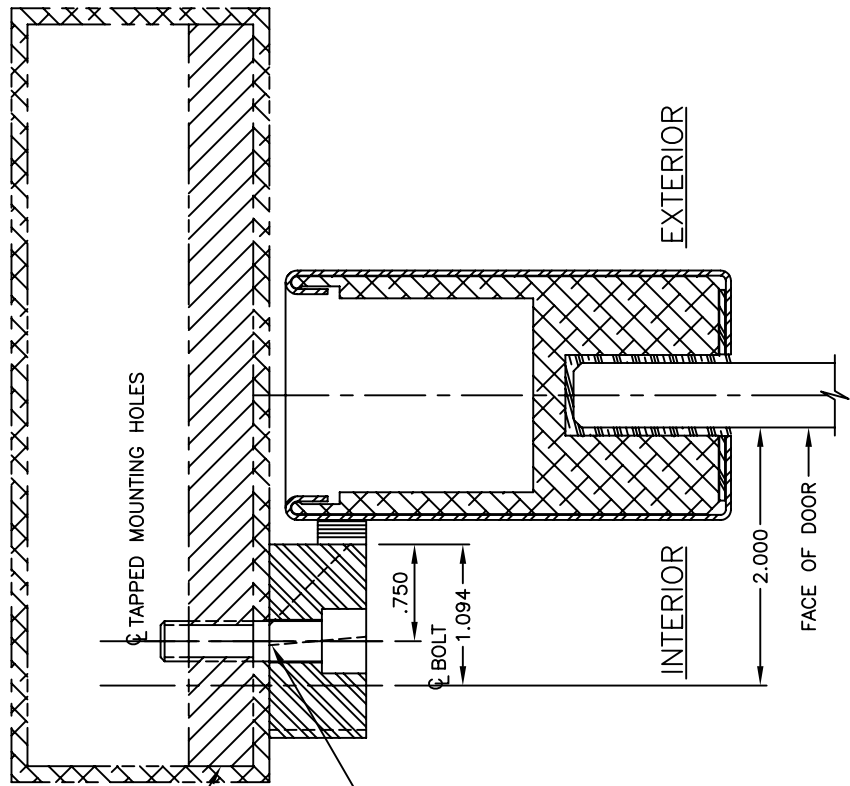
DRAWING NO.  
NS-848



CUSTOMER TO DRILL "F" (.257 DIA.) THRU  
STEEL PLATE, TAP 5/16-18 THRU  
STEEL PLATE, (3) PLACES

BLUMCRAFT RECCOMENDS A 1/2" THK.  
MINIMUM STEEL PLATE IN HEADER OR  
OR CEILING STRUCTURE FOR MOUNTING  
DOOR STOP/STRIKE

DETAIL D-1  
SCALE:FULL SIZE  
S-100-S SINGLE  
DOOR STOP/STRIKE

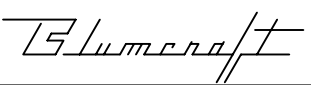


CUSTOMER TO DRILL "F" (.257 DIA.) THRU  
STEEL PLATE, TAP 5/16-18 THRU  
STEEL PLATE, (3) PLACES

BLUMCRAFT RECCOMENDS A 1/2" THK.  
MINIMUM STEEL PLATE IN HEADER OR  
OR CEILING STRUCTURE FOR MOUNTING  
DOOR STOP/STRIKE

DETAIL D-2  
SCALE:FULL SIZE  
S-100-D DOUBLE  
DOOR STOP/STRIKE

TOLERANCES: +.005 -.005 + 1/64" - 1/64"  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

 OF PITTSBURGH		DRAWN BY RIZZO 4-12-04	
		CHECKED BY -	
		SCALE FULL SIZE	
H-100 PANIC HOUSING HEADER PREP, DETAIL D-1 IS FOR STANDARD SINGLE DOOR STOP/STRIKE, DETAIL D-2 IS FOR STD. DOUBLE (8 3/8" CENTERS) DOOR STOP/STRIKE		JOB NUMBER -	
		DWG. NO. NS-848	
		SHEET 1 OF 1	

NYLON BUSHING SELECTION INSTRUCTIONS.

TO ASSURE SMOOTH PANIC HANDLE OPERATION, THE ACTUATOR POST SHOULD BE CENTRALLY LOCATED IN SLOT OF TUBULAR HANDLE.

LOOK AT THE RECTANGULAR HOLE IN HANDLE THROUGH GLASS, WHERE ACTUATOR POST ENTERS.

IF HANDLE IS "UNDOGGED", DIMENSION "A" SHOULD BE SMALLER THAN DIMENSION "B". DIMENSIONS "C" AND "D" SHOULD BE EQUAL.

IF HANDLE IS "DOGGED", DIMENSION "B" SHOULD BE SMALLER THAN DIMENSION "A". DIMENSIONS "C" AND "D" SHOULD BE EQUAL.

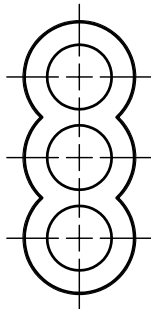
TO ACCOMPLISH THIS, BLUMCRAFT SUPPLIES (4) NYLON BUSHINGS WITH EACH DOOR HANDLE BECAUSE INACCURACY OF THE GLASS HOLE LOCATIONS.

**NOTE:** 7/16" BUSHING THICKNESS FOR ALL 1/2" GLASS  
11/16" BUSHING THICKNESS FOR ALL 3/4" GLASS

NYLON BUSHING SELECTION INSTRUCTIONS.

IF THE "X" DIMENSION IS HELD ACCURATELY AND THE 4 1/8" DIMENSION FROM THE LEADING EDGE OF DOOR IS MAINTAINED:

USE NYLON BUSHING #1.

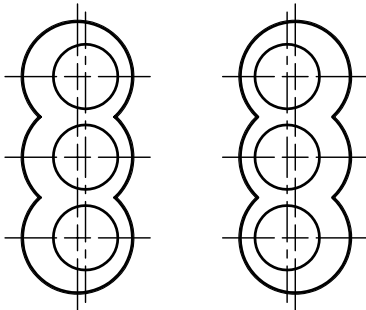


NYLON BUSHING #1

NYLON BUSHING SELECTION INSTRUCTIONS.

IF THE "X" DIMENSION IS HELD ACCURATELY AND THE 4 1/8" DIMENSION FROM THE LEADING EDGE OF DOOR IS 1/6" OFF IN EITHER DIRECTION:

USE NYLON BUSHING #2.

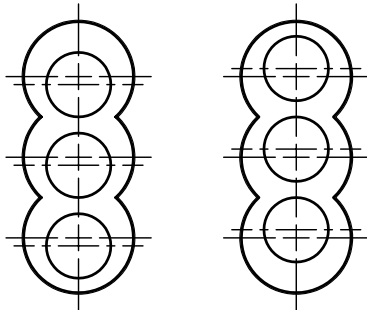


NYLON BUSHING #2

NYLON BUSHING SELECTION INSTRUCTIONS.

IF THE "X" DIMENSION IS 1/6" OFF IN EITHER DIRECTION AND THE 4 1/8" DIMENSION FROM THE LEADING EDGE OF DOOR IS HELD ACCURATELY:

USE NYLON BUSHING #3.

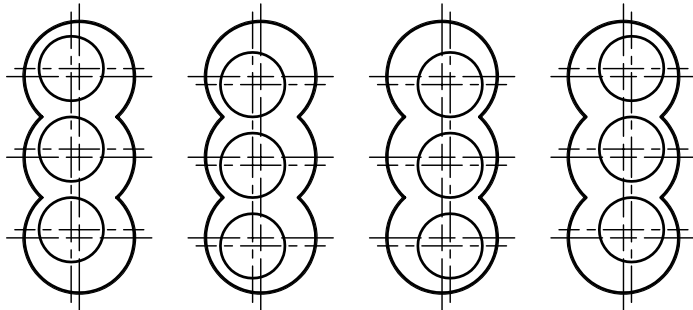


NYLON BUSHING #3

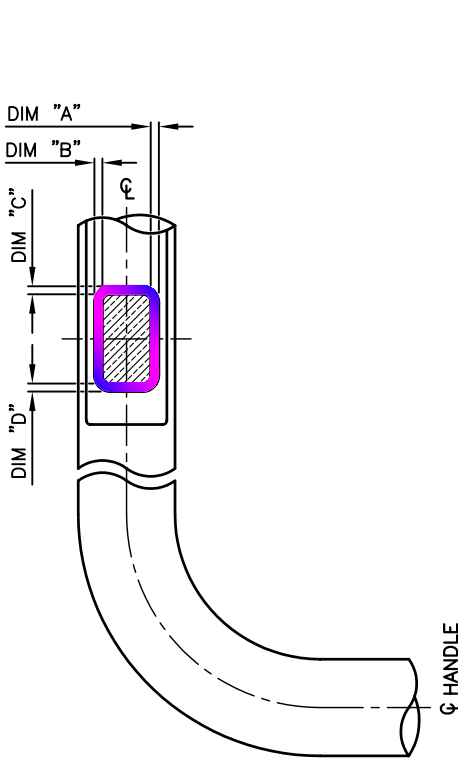
NYLON BUSHING SELECTION INSTRUCTIONS.

IF THE "X" DIMENSION AND THE 4 1/8" ARE BOTH 1/16" OFF IN EITHER DIRECTION:

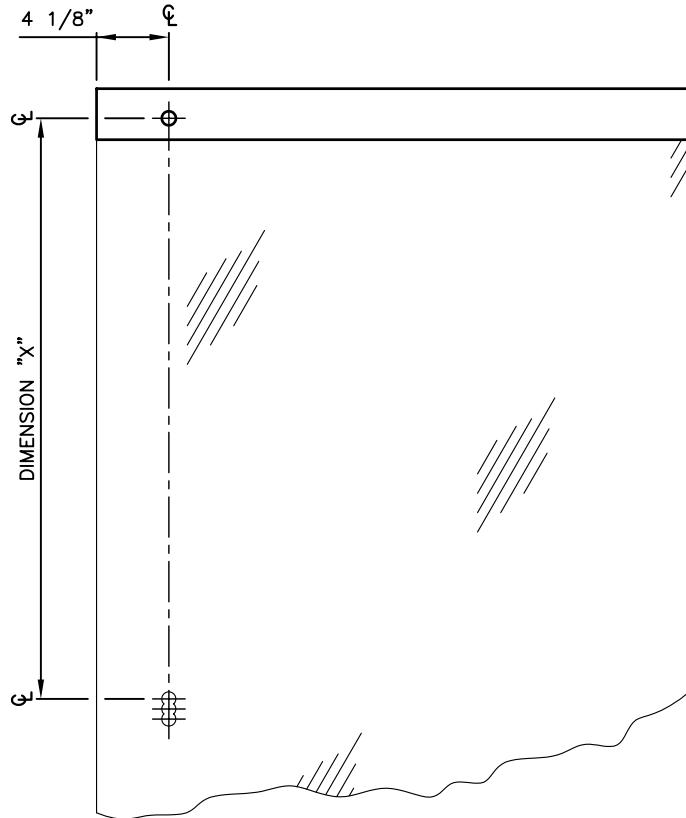
USE NYLON BUSHING #4.



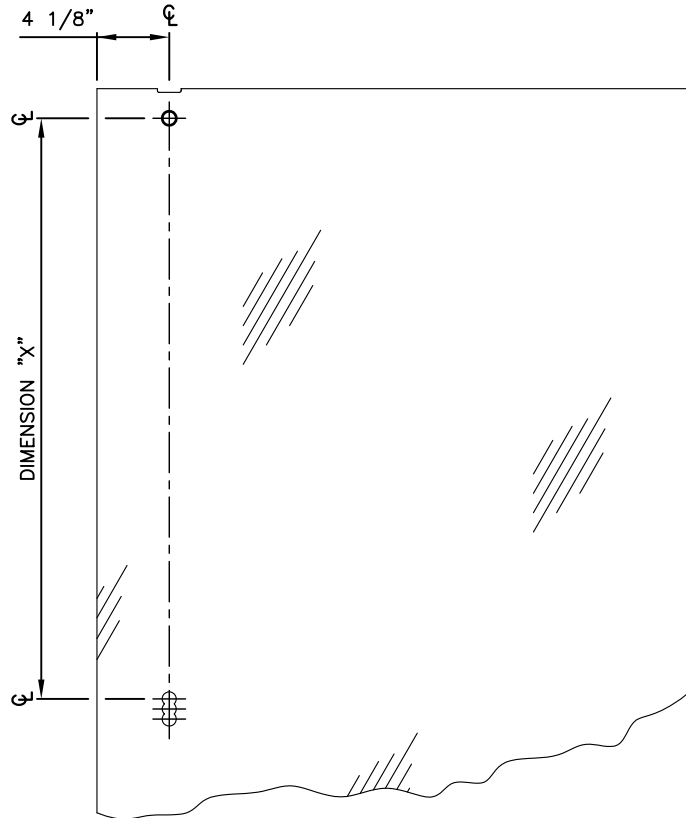
NYLON BUSHING #4



TYPICAL HANDLE



TYPICAL DOOR WITH FULL TOP RAIL



TYPICAL DOOR WITHOUT TOP RAIL

TOLERANCES: + -  
UNLESS OTHERWISE SPECIFIED DECIMALS FRACTIONS

*Blumcraft*

OF PITTSBURGH

NYLON BUSHING SELECTION

REVISIONS	DATE	DN	CH

DRAWN BY TA/MT 12/19/04

CHECKED BY

SCALE

NTS

JOB NUMBER

DWG. NO.

NS-850

SHEET 1 OF 1

DOOR PREP INSTRUCTIONS

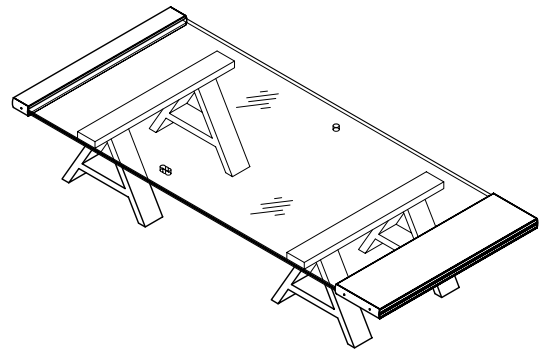
1. PREP DOOR RAILS PER BLUMCRAFT'S INSTRUCTION SHEET NS-844 FOR PB-2 BLOCK USING JIG PROVIDED BY BLUMCRAFT.
- CAUTION:** 5/16-18 TAPPED HOLES MUST BE ON CENTERLINE OF RAIL AND CENTERLINE OF GLASS.
2. **(TOP & BOTTOM OF DOOR)** INSTALL PB-2 BLOCK IN RAILS WITH (2) 5/16-18 x 3/4" LG. SOCKET HD. CAP SCREWS. ADJUST PB-2 BLOCK USING ADJUSTER SCREWS TO ALIGN PB-2 HANDLE CONNECTOR HOLE AND THE 53/64" DIA. HOLE IN RAIL.
- NOTE:** THREADED HOLE IS LOCATED ON INTERIOR SIDE OF DOOR (FIGURE 1).

EXTERIOR FIXED PULL HANDLE (STYLE "F") INSTALLATION INSTRUCTIONS

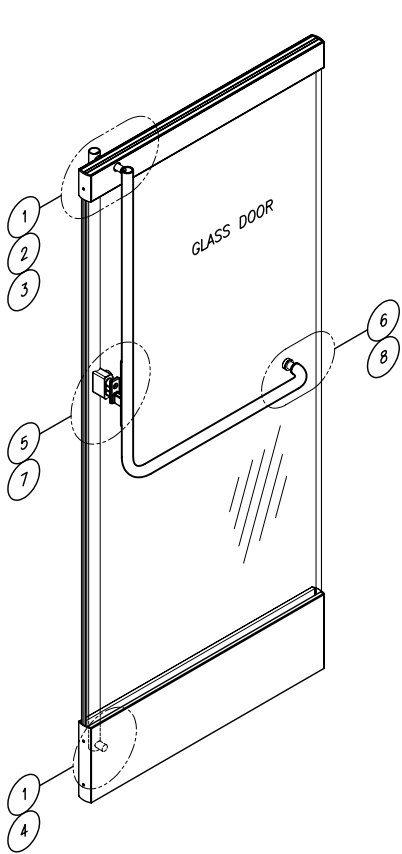
3. **(TOP OF DOOR)** INSERT 5/16-18 x 2" LG. SOCKET HD. CAP SCREW FROM INTERIOR SIDE THRU PB-2 BLOCK, EXTERIOR HANDLE SPACER TUBE, SLOTTED HOLE IN FIXED PULL HANDLE AND SCREW CLOCKWISE INTO EXTERIOR THREADED NUT (FIGURE 1).
4. **(BOTTOM OF DOOR)** SCREW MOUNTING BRACKET INTO PB-2 BLOCK, INSERT 5/16-18 x 5/8" LG. SOCKET HD. CAP SCREW THRU BOTTOM OF FIXED PULL HANDLE, THRU SLOTTED HOLE AND WASHER, SCREW CLOCKWISE INTO MOUNTING BLOCK (FIGURE 2).
5. **(ACTUATOR & CYLINDER HOUSING)** INSERT PRE-SELECTED NYLON BUSHING INTO TRIPLE HOLE CUTOUT IN GLASS.
- NOTE:** BLUMCRAFT FURNISHES FOUR NYLON BUSHINGS. HOWEVER USE ONLY ONE OF THE FOUR.
- DEPENDING UPON HOW ACCURATELY THE TRIPLE HOLE CUTOUT IN THE GLASS HAS BEEN DIMENSIONALLY LOCATED (SEE NS-850 INSTRUCTION SHEET). PLACE FLAT SIDE OF HANDLE ACTUATOR CONTAINING CYLINDER OPERATING PIN, RETURN SPRING AND RETURN PIN, AGAINST GLASS OVER NYLON BUSHING AND SCREW 5/16-18 FLAT HD. SOCKET CAP SCREW CLOCKWISE INTO CYLINDER HOUSING (FIGURE 3).
6. **(PIVOT END CONNECTION)** INSERT HORIZONTAL HANDLE RETAINER WITH RUBBER BUSHING THRU GLASS HOLE FROM INTERIOR SIDE INTO EXTERIOR CAP AND TIGHTEN WITH SPANNER WRENCH (FIGURE 4).

H-100 PANIC DEVISE INSTALLATION INSTRUCTIONS

7. LIFT TOP PORTION OF H-100 HANDLE AWAY FROM DOOR, HOOK THE H-100 HANDLE OVER HANDLE ACTUATOR POST, MOVING HANDLE UP. TIGHTEN THREADED PIVOT BRACKET CLOCKWISE INTO PB-2 BLOCK (FIGURE 5).
8. PLACE HORIZONTAL PORTION OF H-100 HANDLE OVER HORIZONTAL HANDLE RETAINER, LINE UP HOLE IN RETAINER WITH HOLE IN HANDLE AND INSERT THREADED PIN TIGHTENING CLOCKWISE (FIGURE 6).



LAY DOOR FLAT TO ASSEMBLE PANIC HARDWARE



DOOR WITH FULL TOP AND BOTTOM RAILS  
TYPE "P"

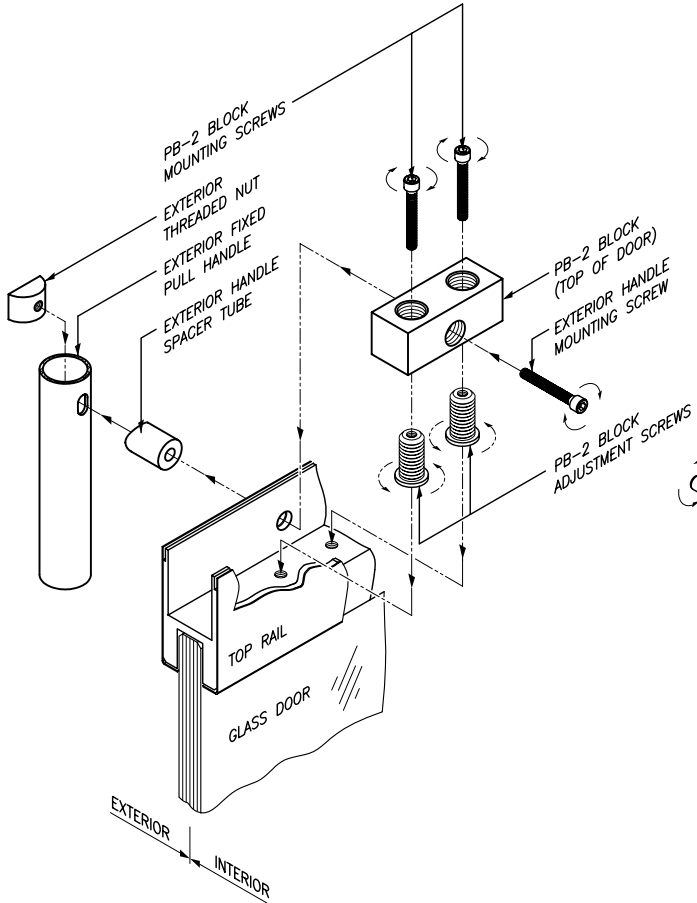


FIGURE 1

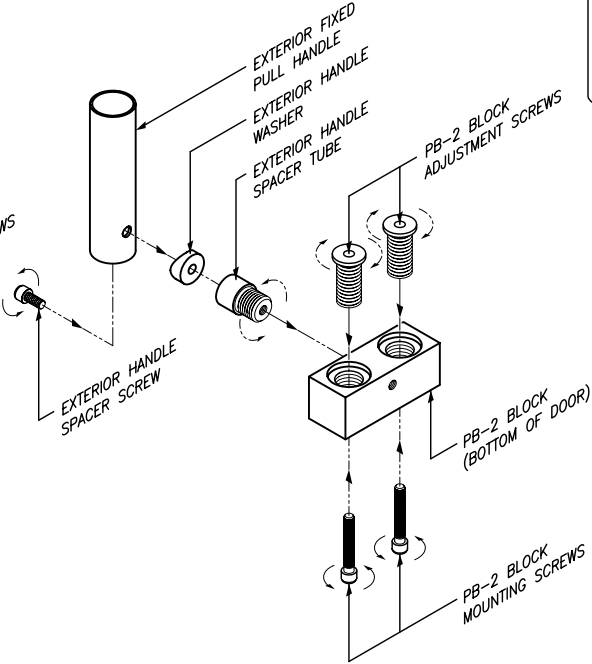


FIGURE 2

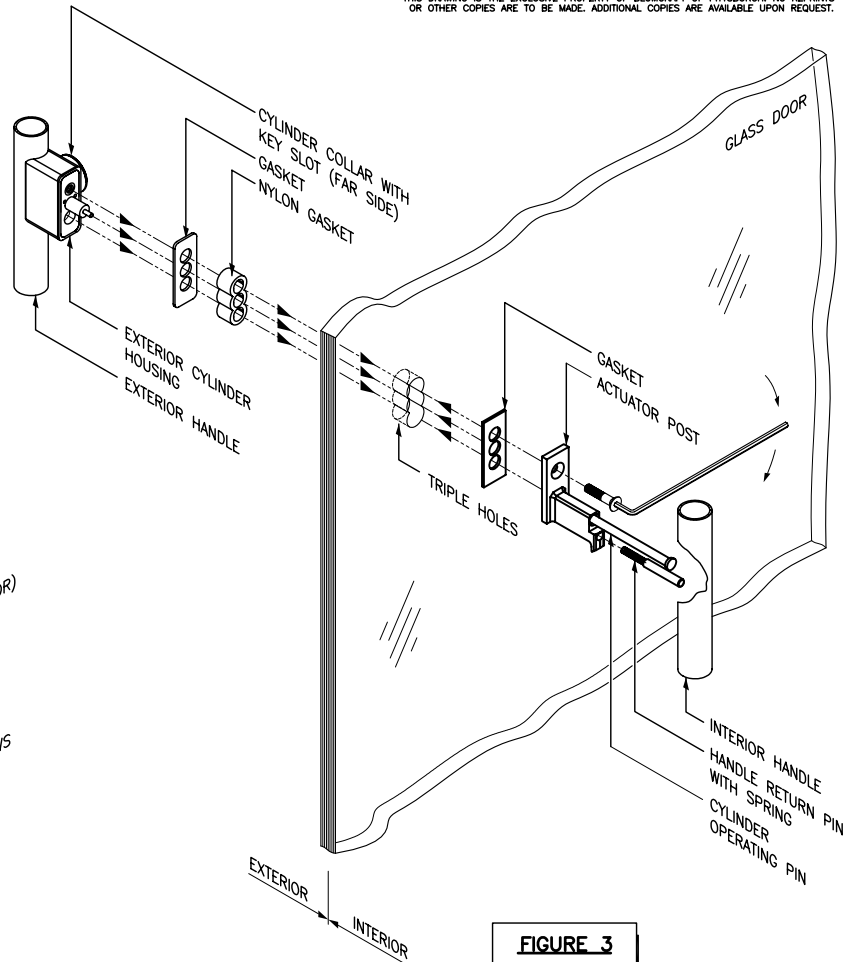


FIGURE 3

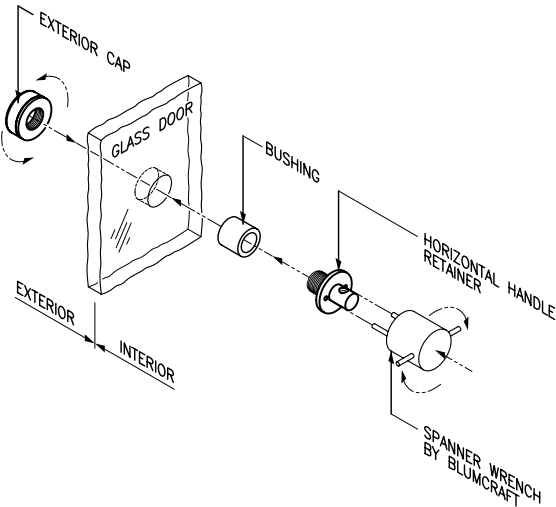


FIGURE 4

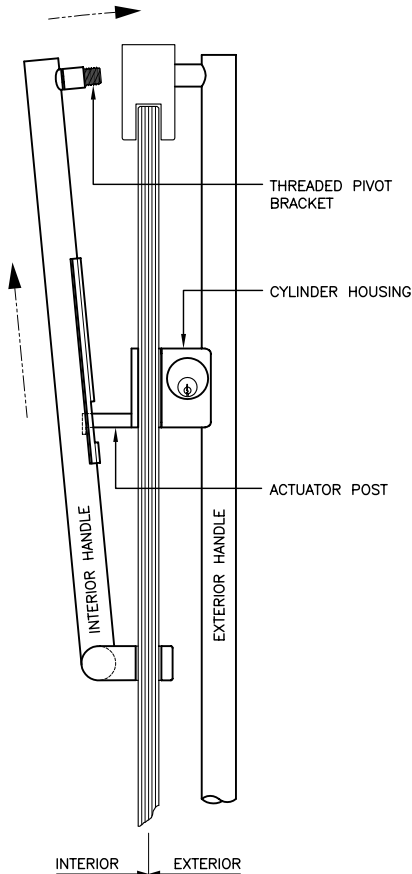


FIGURE 5

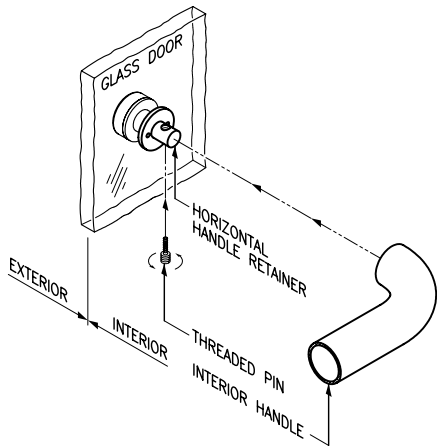


FIGURE 6

EXTERIOR FIXED PULL HANDLE (STYLE "F") INSTALLATION INSTRUCTIONS

1. INSERT RUBBER BUSHING INTO HOLE AT TOP OF GLASS DOOR.
- (BOTTOM OF DOOR) PLACE RUBBER BUSHING INTO GLASS HOLE AT BOTTOM OF DOOR. PLACE INTERIOR RETAINER WITH GASKET FROM INTERIOR SIDE THRU GLASS HOLE. INSTALL KEY INTO INTERIOR RETAINER. SLIDE EXTERIOR WASHER AND SPACER SLEEVE WITH GASKET OVER RETAINER AND KEY.
- PLACE EXTERIOR FIXED STYLE "F" PULL HANDLE ON DOOR ALIGNING CYLINDER HOUSING WITH TRIPLE HOLE CUTOUT.
- (TOP OF DOOR) PLACE TOP EXTERIOR PIVOT BRACKET WITH GASKET AGAINST EXTERIOR SIDE INTO HOLE AND NOTCHED PORTION OF GLASS.
- (BOTTOM OF DOOR) TURN EXTERIOR SPACER SLEEVE (INTERIOR RETAINER WILL ALSO TURN) COUNTER-CLOCKWISE ONTO THREADED STUD (FIGURE 1).
2. (ACTUATOR & CYLINDER HOUSING) INSERT PRE-SELECTED NYLON BUSHING INTO TRIPLE HOLE CUTOUT IN GLASS.
- NOTE:** BLUMCRAFT FURNISHES FOUR NYLON BUSHINGS. HOWEVER USE ONLY ONE OF THE FOUR.
- DEPENDING UPON HOW ACCURATELY THE TRIPLE HOLE CUTOUT IN THE GLASS HAS BEEN DIMENSIONALLY LOCATED (SEE NS-850 INSTRUCTION SHEET). PLACE FLAT SIDE OF HANDLE ACTUATOR CONTAINING CYLINDER OPERATING PIN, RETURN SPRING AND RETURN PIN, AGAINST GLASS OVER NYLON BUSHING AND SCREW 5/16-18 FLAT HD. SOCKET CAP SCREW CLOCKWISE INTO CYLINDER HOUSING (FIGURE 2).
3. (PIVOT END CONNECTION) INSERT HORIZONTAL HANDLE RETAINER WITH RUBBER BUSHING THRU GLASS HOLE FROM INTERIOR SIDE INTO EXTERIOR CAP AND TIGHTEN WITH SPANNER WRENCH (FIGURE 3).

H-100 PANIC DEVICE INSTALLATION INSTRUCTIONS

4. LIFT TOP PORTION OF H-100 HANDLE AWAY FROM DOOR, HOOK THE H-100 HANDLE OVER HANDLE ACTUATOR POST, MOVING HANDLE UP. INSERT LOW HEAD CAP SCREW THRU INTERIOR PIVOT BRACKET WITH GASKET AND TIGHTEN INTO EXTERIOR PIVOT BRACKET (FIGURES 4 & 5).
5. PLACE HORIZONTAL PORTION OF H-100 HANDLE OVER HORIZONTAL HANDLE RETAINER, LINE UP HOLE IN RETAINER WITH HOLE IN HANDLE AND INSERT THREADED PIN (FIGURE 6).

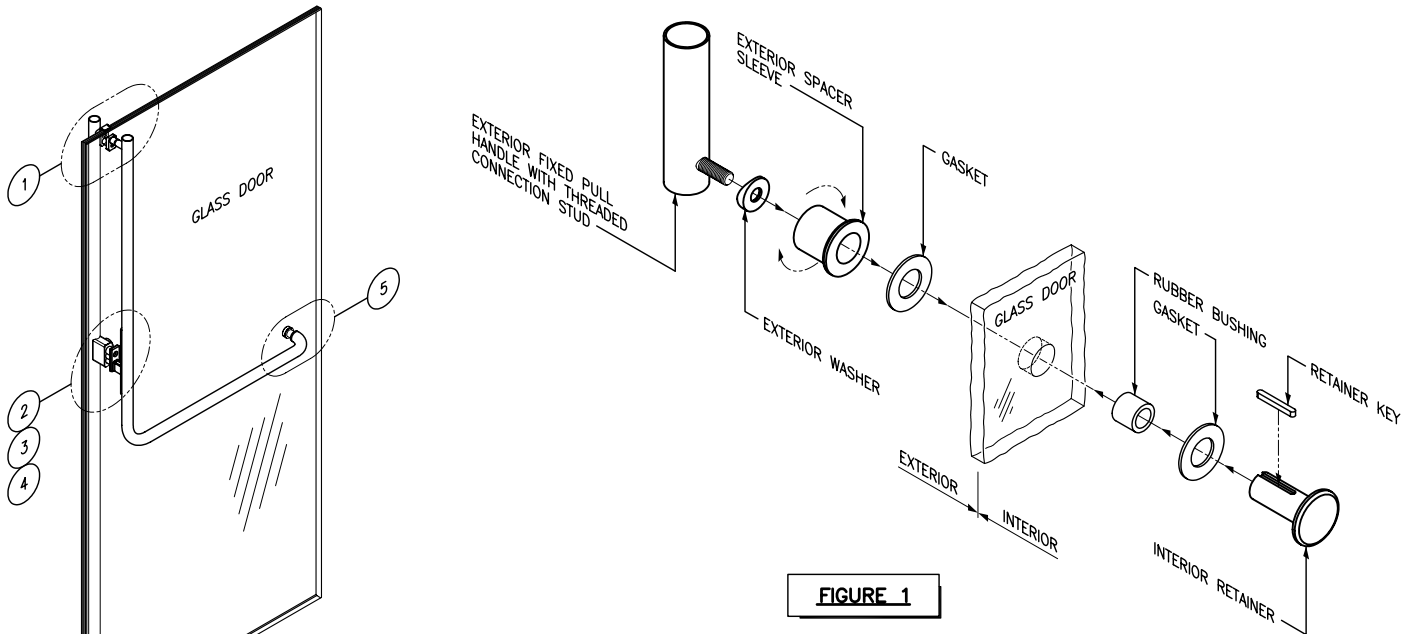


FIGURE 1

DOOR WITH EXTERIOR STYLE "F" HANDLE  
& INTERIOR STYLE H-100 PANIC HANDLE  
TYPE "A"

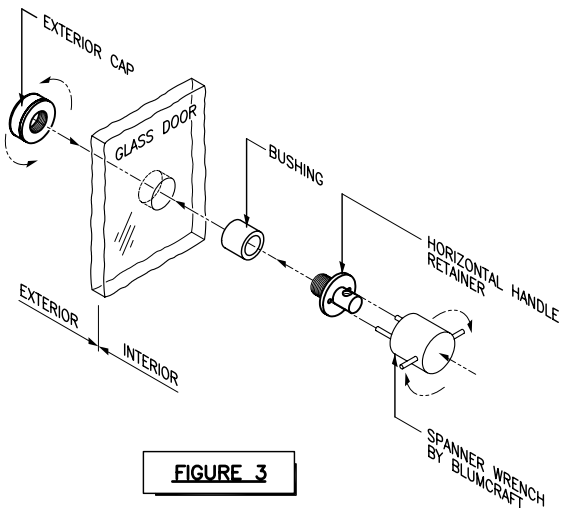


FIGURE 3

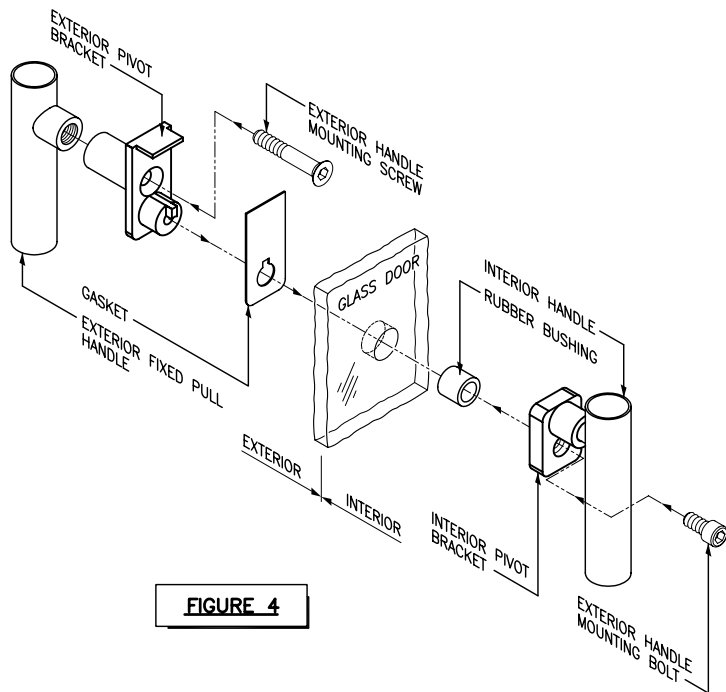


FIGURE 4

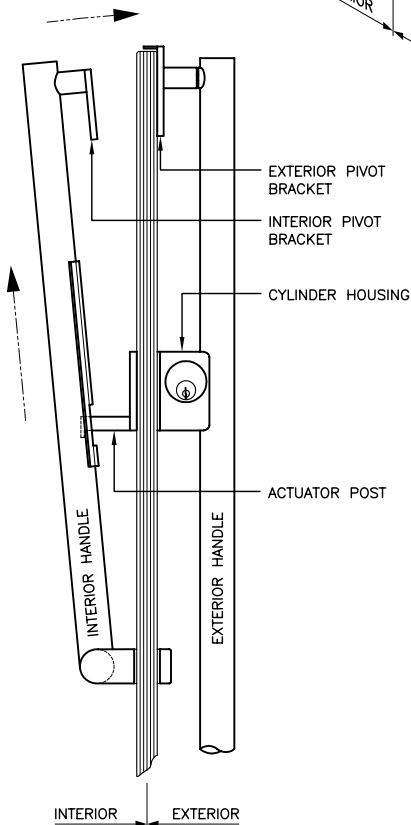


FIGURE 5

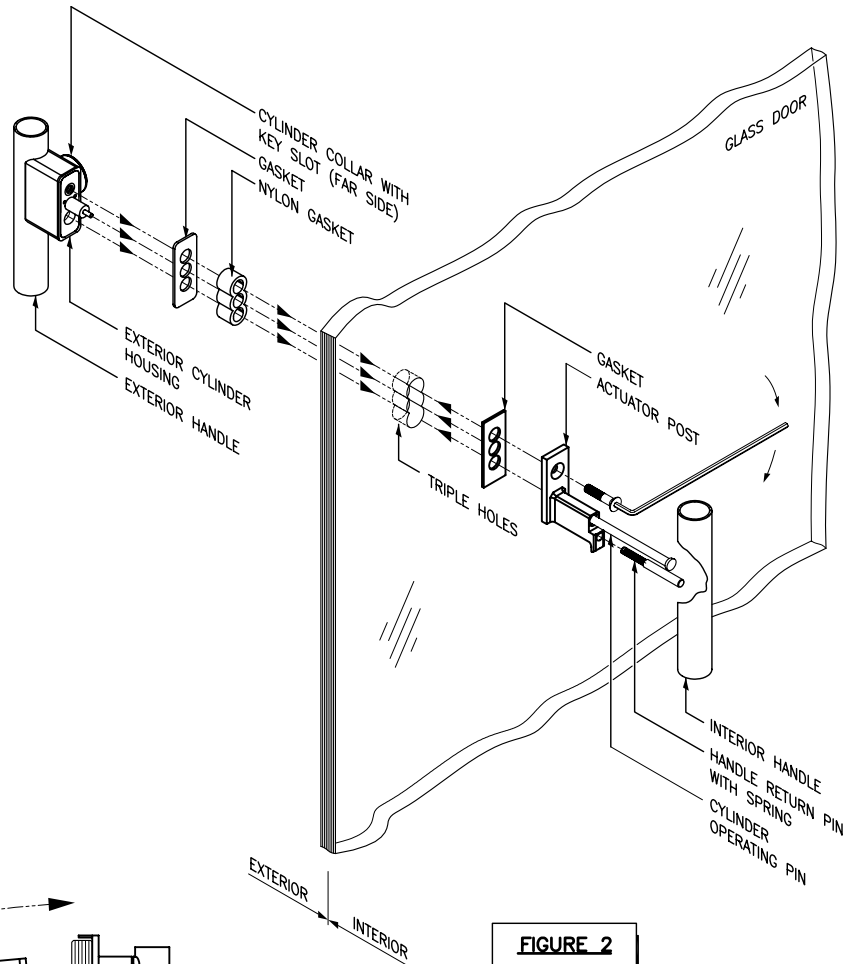


FIGURE 2

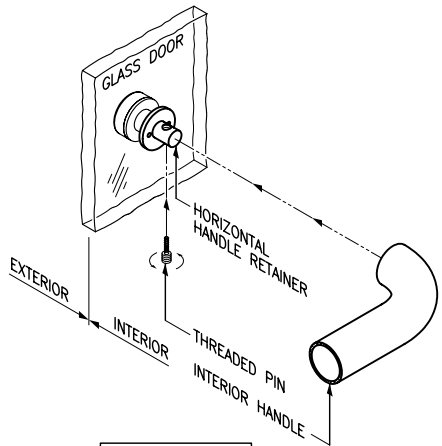


FIGURE 6

REVISIONS	DATE	DN	CH

DRAWN BY	MT/TA 2/18/05
CHECKED BY	NTS
SCALE	—
JOB NUMBER	—
DWG. NO.	NS-852
SHEET	1 OF 1

H-100 REMOVAL INSTRUCTIONS

1. UNSCREW THREADED PIN FROM BOTTOM OF H-100 HORIZONTAL PORTION (FIGURE 1). GENTLY PULL HORIZONTAL PORTION AWAY FROM DOOR.
2. REMOVE SOCKET HEAD CAP SCREW FROM INTERIOR PIVOT BRACKET, (FIGURE 2) BE CAREFUL NOT TO LOSE GASKETS AND BRONZE BUSHING LOCATED INSIDE INTERIOR PIVOT BRACKET. LIFT TOP PORTION OF H-100 HANDLE AWAY FROM DOOR AND MOVE DOWN TO UNHOOK THE ACTUATOR POST (FIGURE 3). SET HANDLE ASIDE.
3. UNSCREW 5/16-18 FLAT HEAD SOCKET CAP SCREW (FIGURE 4). BE CAREFUL NOT TO LOSE THE CYLINDER OPERATING PIN, HANDLE RETURN PIN, RETURN SPRING, GASKETS, AND NYLON BUSHING.

EXTERIOR FIXED PULL HANDLE (STYLE "F") REMOVAL INSTRUCTIONS

4. BOTTOM: TURN EXTERIOR SPACER SLEEVE (INTERIOR RETAINER WILL ALSO TURN) CLOCKWISE OFF OF THREADED STUD (FIGURE 5).

CYLINDER REPLACEMENT INSTRUCTIONS

5. GLASS SIDE OF EXTERIOR CYLINDER HOUSING, LOOSEN SET SCREW HOLDING CYLINDER (FIGURE 6).
6. REMOVE OLD CYLINDER AND CHECK TO SEE IF TAIL PIECE (CAM) MATCHES NEW CYLINDER TAIL PIECE (VIEW "A")  
  
ALSO THE LENGTH OF THE NEW CYLINDER MUST BE OF THE SAME LENGTH AS THE OLD CYLINDER. WIND IN NEW CYLINDER UNTIL IT STOPS INSIDE THE COLLAR RING. KEY SLOT MUST BE ON BOTTOM OF CYLINDER NEAREST THE FLOOR.
7. LOOK INTO LARGE HOLE IN EXTERIOR CYLINDER HOUSING. THE VISIBLE TAIL PIECE SHOULD APPEAR TO LINE UP WITH CENTERLINE OF HOLE. IF NOT, TURN CYLINDER IN OR OUT ONE TURN SO LINE UP IS ACCOMPLISHED. TIGHTEN SET SCREW (VIEW "B").
8. REINSTALL STYLE "F" HANDLE AND H-100 HANDLE ON DOOR PER INSTRUCTION SHEET NS-852.

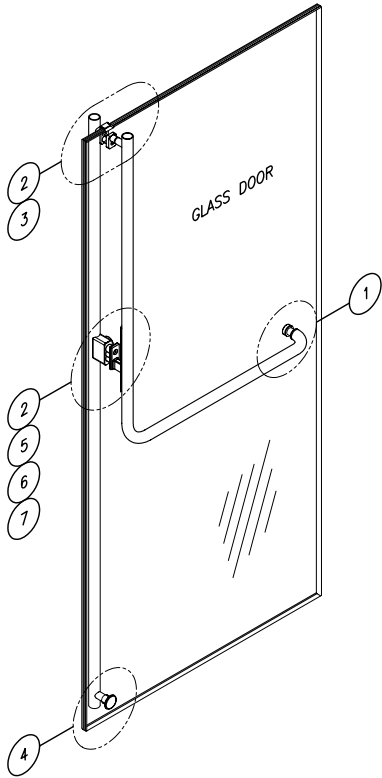


FIGURE 1

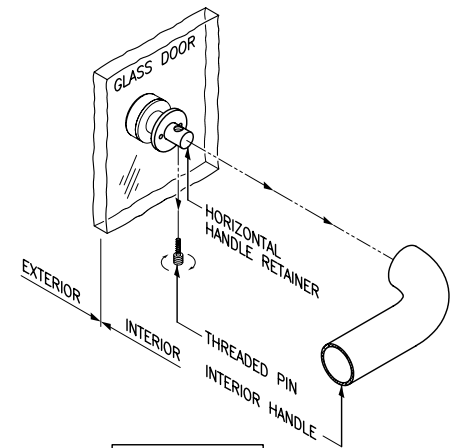


FIGURE 2

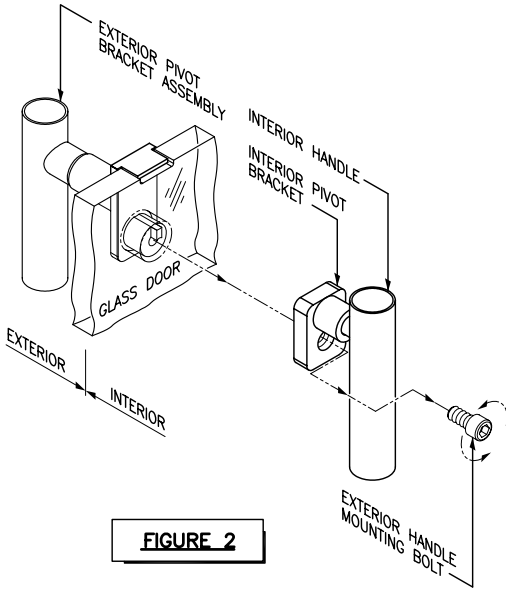


FIGURE 3

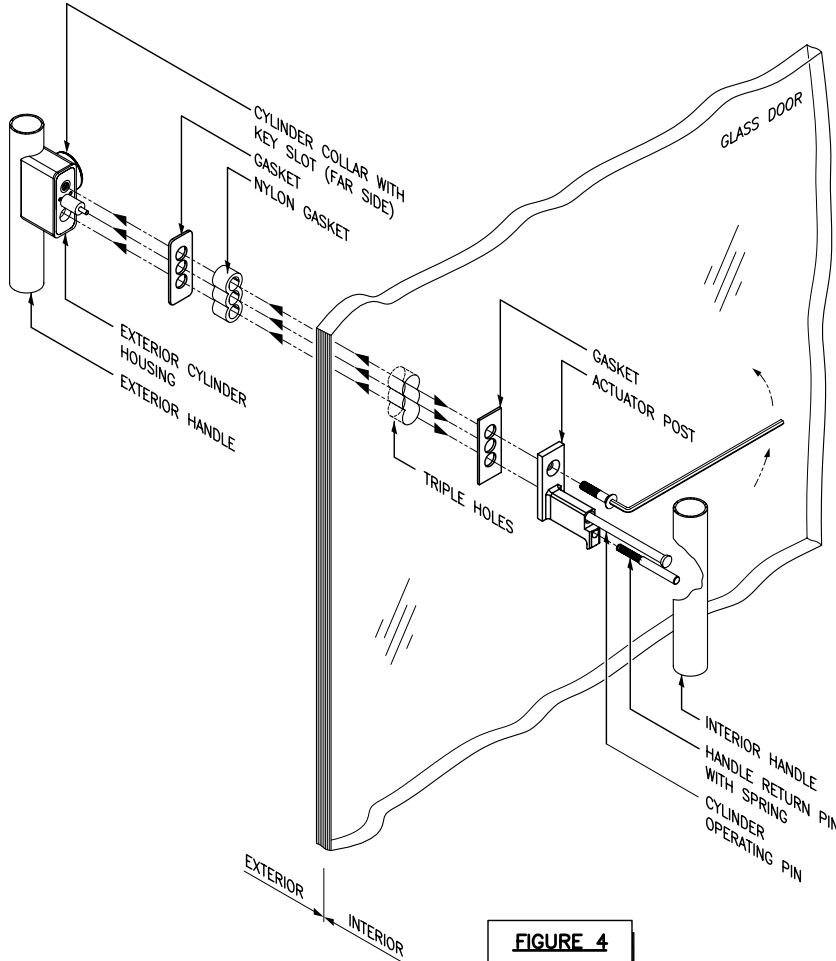
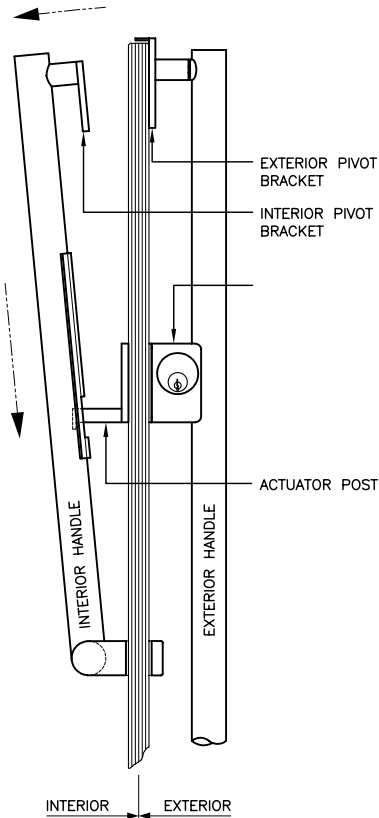


FIGURE 5

DOOR WITH EXTERIOR STYLE "F" HANDLE  
& INTERIOR STYLE H-100 PANIC HANDLE  
TYPE "A"

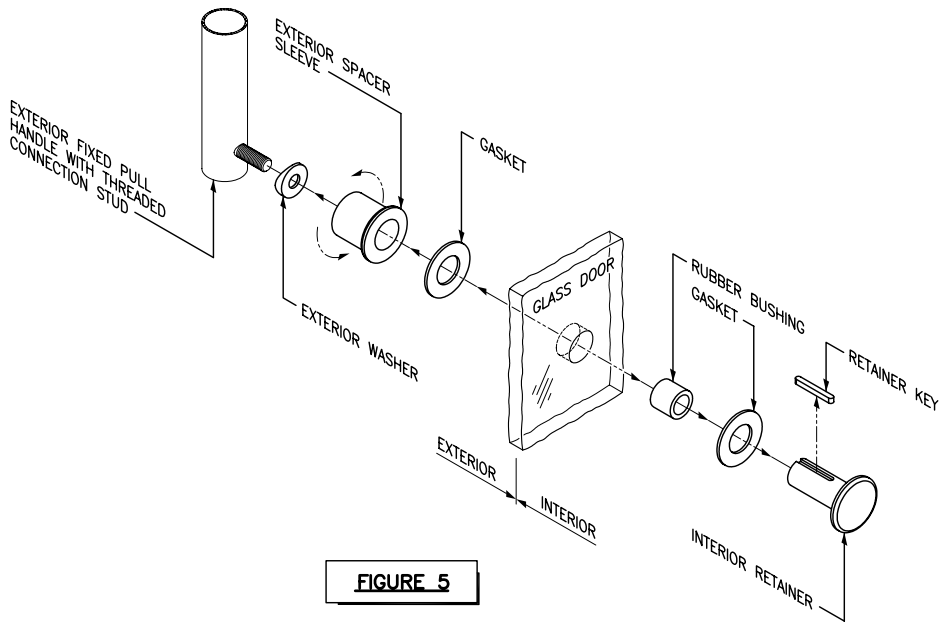


FIGURE 6

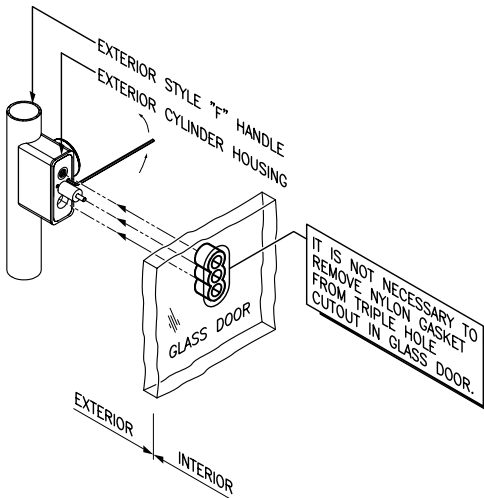


FIGURE 7

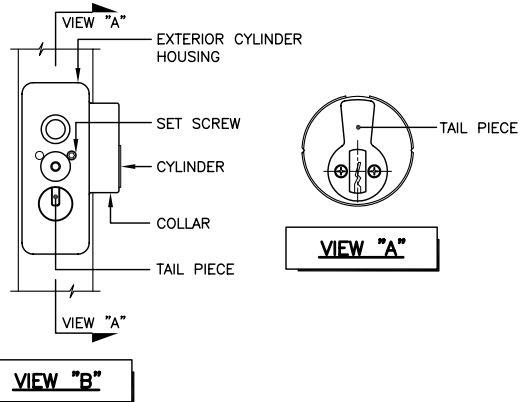


FIGURE 8

LAY DOOR FLAT TO ASSEMBLE PANIC HARDWARE

NOTE: TYPE "P" DOORS MUST BE UN-INSTALLED FROM DOOR OPENING FOR CYLINDER REPLACEMENT.

H-100 REMOVAL INSTRUCTIONS

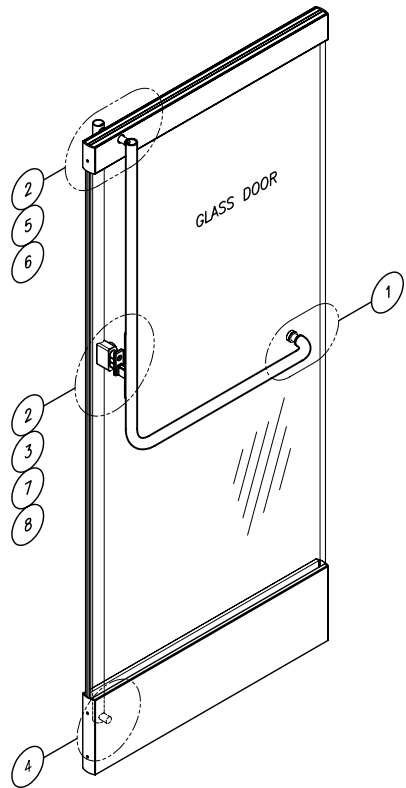
1. UNSCREW THREADED PIN FROM BOTTOM OF H-100 HORIZONTAL PORTION (FIGURE 1). GENTLY PULL HORIZONTAL PORTION AWAY FROM DOOR.
2. ROTATE ROUND THREADED PIVOT BRACKET (PORTION NEAREST TO THE TOP RAIL, FIGURE 2) COUNTERCLOCKWISE AND REMOVE FROM PB-2 BLOCK. LIFT TOP PORTION OF H-100 HANDLE AWAY FROM DOOR AND MOVE DOWN TO UNHOOK THE ACTUATOR POST (FIGURE 3). SET HANDLE ASIDE.
3. UNSCREW 5/16-18 FLAT HD. SOCKET CAP SCREW (FIGURE 4) BE CAREFUL NOT TO LOSE THE CYLINDER OPERATING PIN, HANDLE RETURN PIN, RETURN SPRING, GASKETS, AND NYLON BUSHING.

EXTERIOR FIXED PULL HANDLE (STYLE "F") REMOVAL INSTRUCTIONS

4. BOTTOM: UNSCREW 5/16-18 x 5/8" LONG SOCKET HEAD CAP SCREW FROM INSIDE OF FIXED PULL HANDLE (FIGURE 5).
5. TOP: INTERIOR SIDE OF DOOR, UNSCREW 5/16-18 x 2" LONG SOCKET HEAD CAP SCREW FROM EXTERIOR THREADED NUT. LIFT HANDLE FROM DOOR (FIGURE 6).

CYLINDER REPLACEMENT INSTRUCTIONS

6. GLASS SIDE OF EXTERIOR CYLINDER HOUSING, LOOSEN SET SCREW HOLDING CYLINDER (FIGURE 6)
7. REMOVE OLD CYLINDER AND CHECK TO SEE IF TAIL PIECE (CAM, VIEW "A") MATCHES NEW CYLINDER TAIL PIECE.  
  
ALSO THE LENGTH OF THE NEW CYLINDER MUST BE OF THE SAME LENGTH AS THE OLD CYLINDER. WIND IN NEW CYLINDER UNTIL IT STOPS INSIDE THE COLLAR RING. KEY SLOT MUST BE ON BOTTOM OF CYLINDER NEAREST THE FLOOR.
8. LOOK INTO LARGE HOLE IN EXTERIOR CYLINDER HOUSING. THE VISIBLE TAIL PIECE SHOULD APPEAR TO LINE UP WITH CENTERLINE OF HOLE. IF NOT, TURN CYLINDER IN OR OUT ONE TURN SO LINE UP IS ACCOMPLISHED. TIGHTEN SET SCREW (VIEW "B").
9. REINSTALL STYLE "F" HANDLE AND H-100 HANDLE ON DOOR PER NS-851.



DOOR WITH FULL TOP AND BOTTOM RAILS  
TYPE "P"

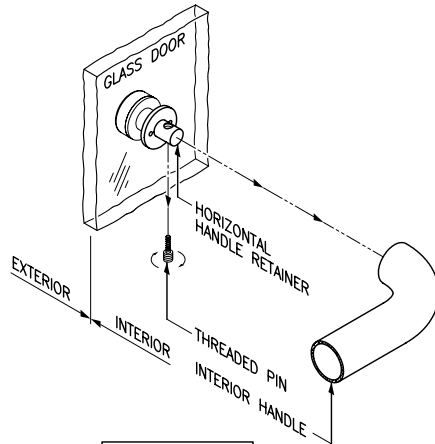


FIGURE 1

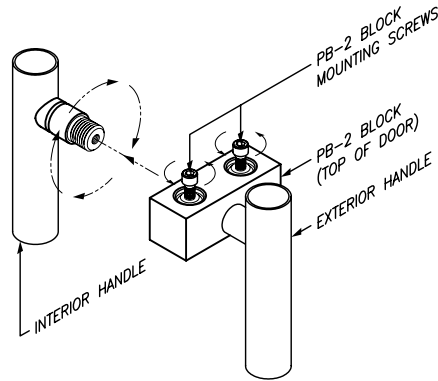


FIGURE 2

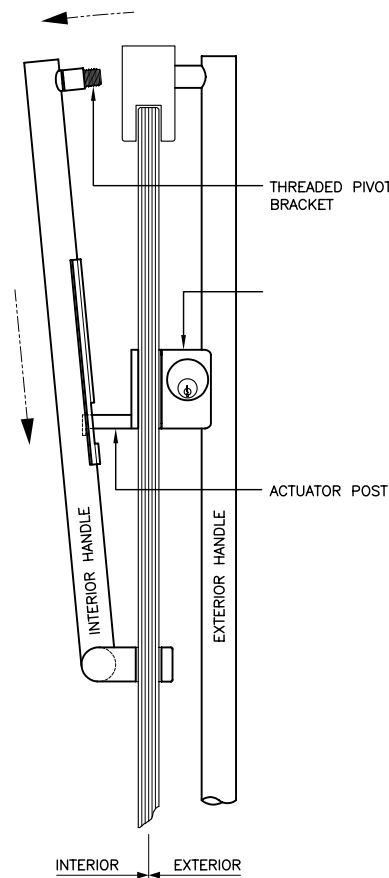


FIGURE 3

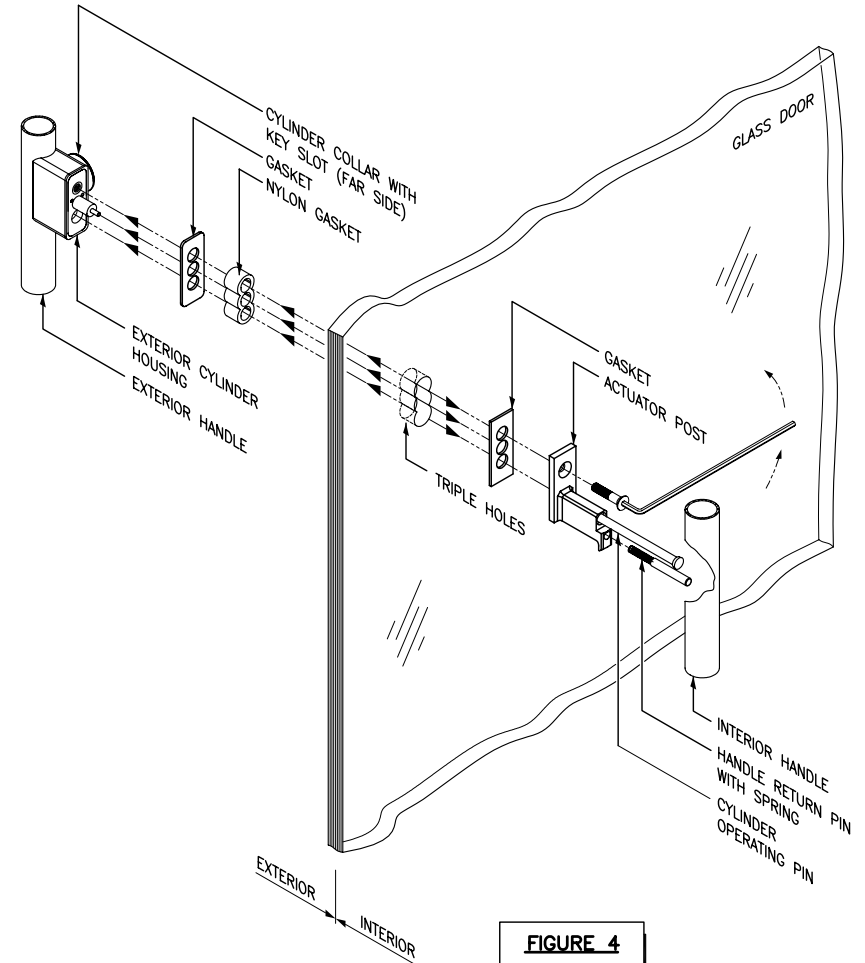
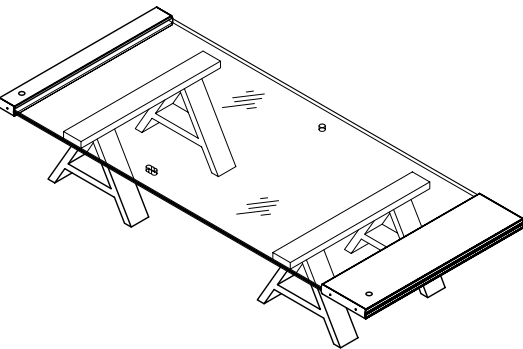


FIGURE 4



LAY DOOR FLAT TO ASSEMBLE PANIC HARDWARE

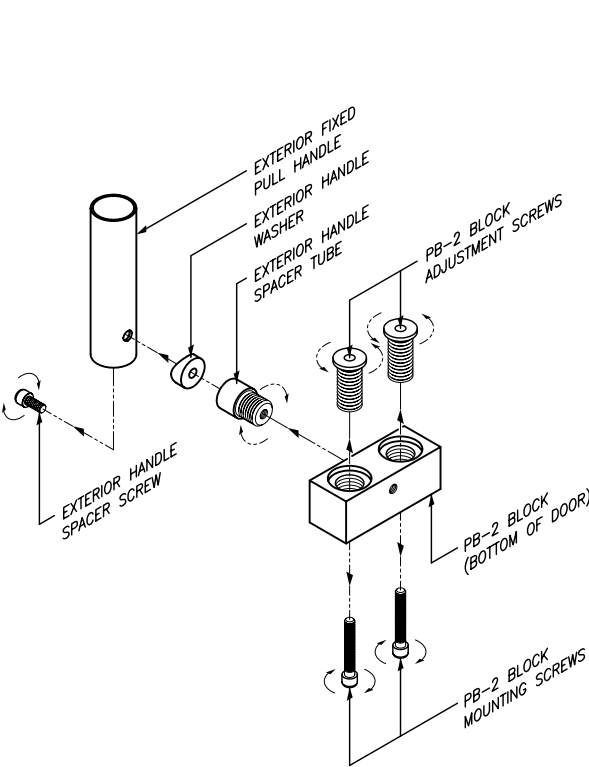


FIGURE 5

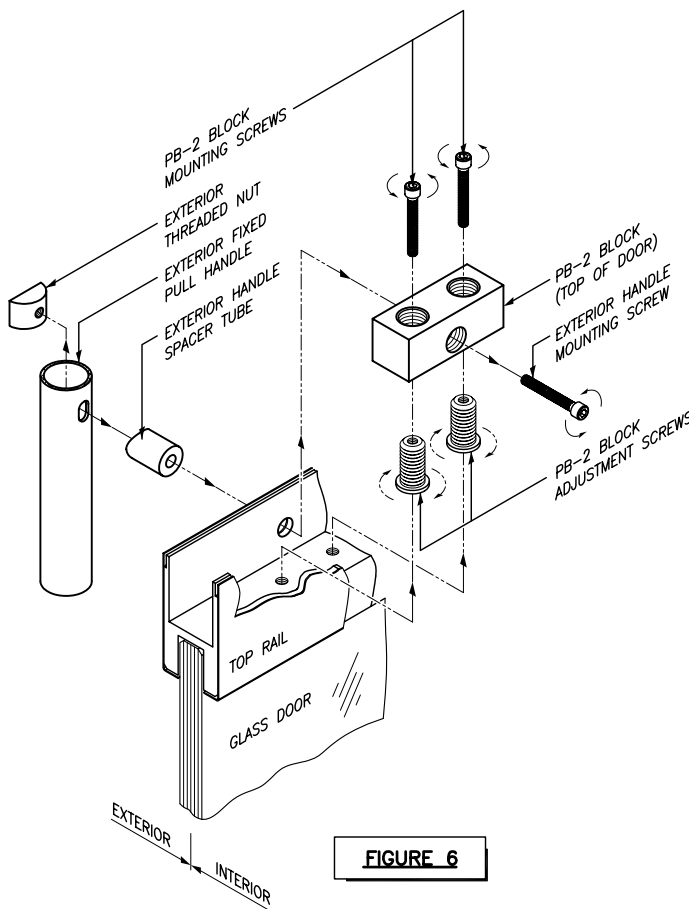


FIGURE 6

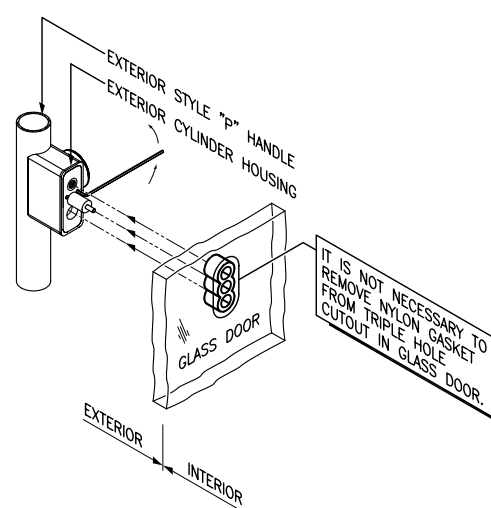


FIGURE 6

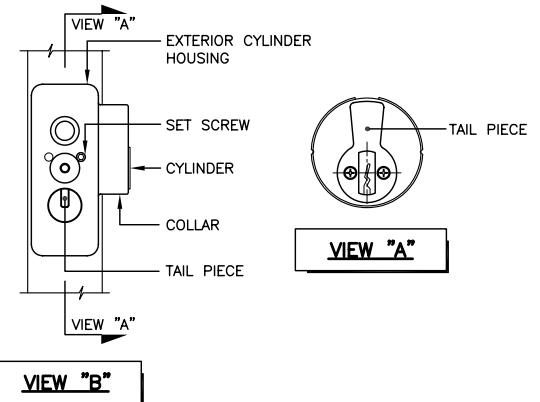


FIGURE 6