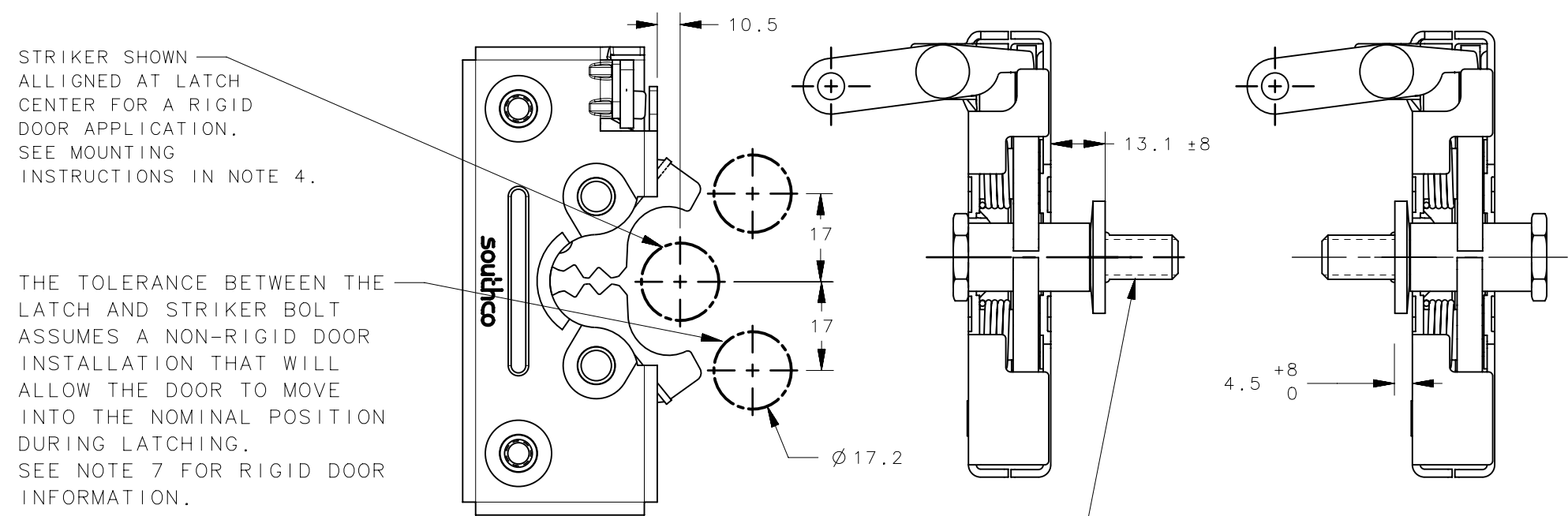


REVISION HISTORY			
REV	DATE	BY	DESCRIPTION
1	01JUL2024	PSP/SAK	PRN: P2024-1142



STRIKER SHOWN ALIGNED AT LATCH CENTER FOR A RIGID DOOR APPLICATION. SEE MOUNTING INSTRUCTIONS IN NOTE 4.

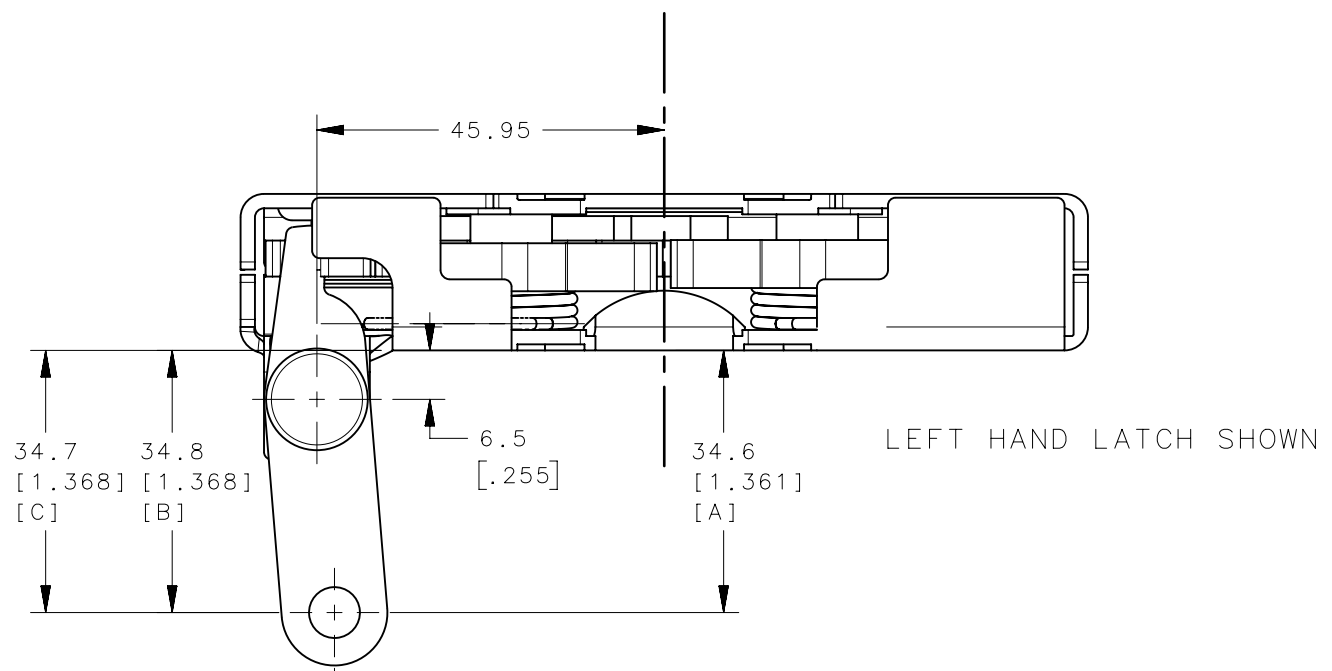
THE TOLERANCE BETWEEN THE LATCH AND STRIKER BOLT ASSUMES A NON-RIGID DOOR INSTALLATION THAT WILL ALLOW THE DOOR TO MOVE INTO THE NOMINAL POSITION DURING LATCHING. SEE NOTE 7 FOR RIGID DOOR INFORMATION.

STRIKER BOLT ASSEMBLY (SOLD SEPARATELY) SEE J-R4-90-400 FOR DETAILS

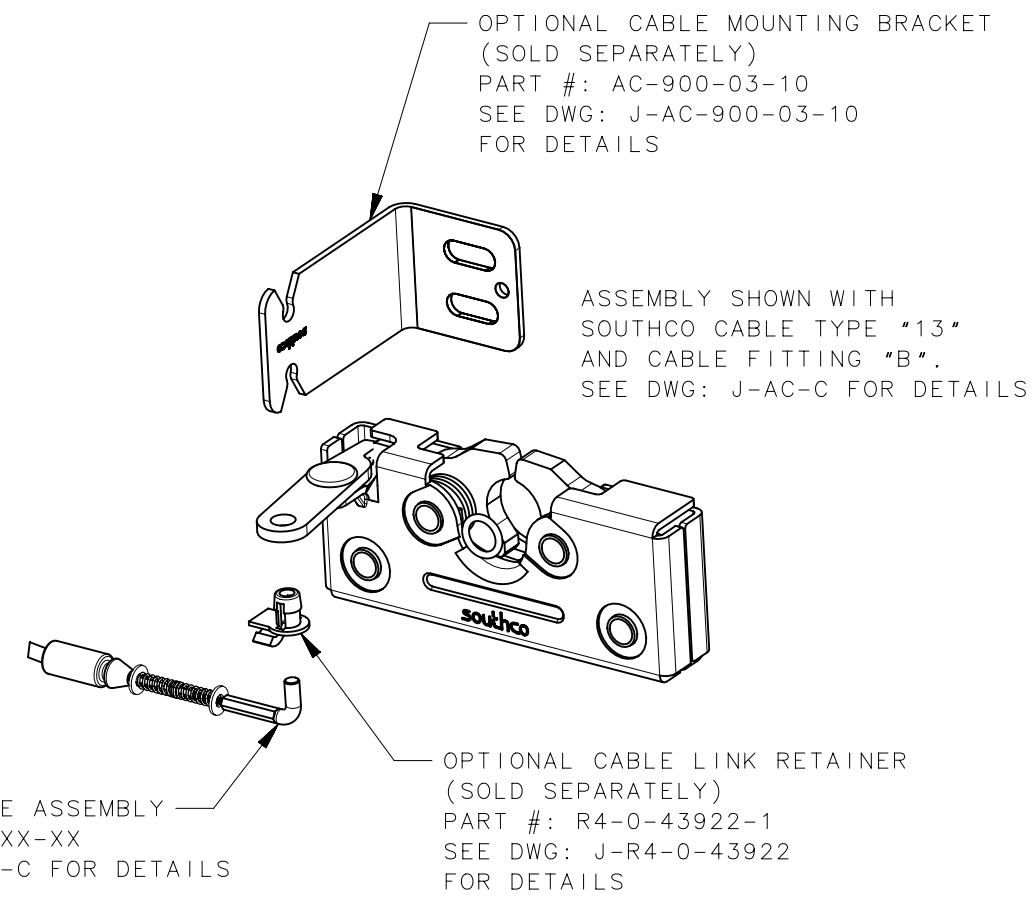
STRIKER SHOWN AT NOMINAL MOUNTING LOCATIONS FROM BOTH SIDES

NOTES:

- ASSEMBLY COMPLIES WITH LATCH REQUIREMENTS OF FMVSS 206 WHEN TESTED IN ACCORDANCE WITH SAE J839.
- MATERIALS:
PINS, LEVER, RIVET: STEEL, ZINC PLATE BRIGHT CHROMATE
PAWLS, AND TRIGGER: HEAT TREATED CARBON STEEL, LUBRICATED WITH OVEN CURED DRY LUBRICANT.
SPRINGS: STAINLESS STEEL, PASSIVATED (BLACK OXIDE)
FRAME HSG. FRONT AND BACK: HIGH STRENGTH STEEL, ZINC PLATED BRIGHT CHROMATE
- MAXIMUM RECOMMENDED MOUNTING TORQUE NOT TO EXCEED 13.3 N-m (120in-lbs)
INSTALLATION WITH FLANGE HEAD FASTENERS OF SUFFICIENT GRADE AT ALL FOUR (4) MOUNTING HOLE LOCATIONS. FLANGE SHOULD BE Ø 13mm MIN.
- INSTALLATION INSTRUCTIONS:
-INSTALL SOUTHCO STRIKER BOLT ASSEMBLY IN DOOR FRAME
-CLOSE DOOR CHECKING FOR INTERFERENCE OR MISALIGNMENT
-ADJUST STRIKER AS NECESSARY SHIM IF REQUIRED TO ACHIEVE PROPER POSITIONING OF STRIKER HEAD.
-ADJUST STRIKER SO IT ENGAGES IN THE CENTER OF THE LATCH
-VERIFY THAT BOTH STAGES OF LATCH ARE FUNCTIONAL
-CHECK DOOR ALIGNMENT AND SEAL PRESSURES.
- PAWL OPENING ALLOWS FOR SELF-ALIGNMENT OF FLEXIBLE DOOR SYSTEMS ONLY, CONTACT SOUTHCO SALES OR ENGINEERING FOR APPLICATION ASSISTANCE.
- RECOMMENDED STRIKER HARDNESS 35-40 Rc
- WHEN INSTALLED INTO A RIGID DOOR SYSTEM AND USING A SOUTHCO STANDARD STRIKER, STRIKER HAS A POSITIONAL TOLERANCE OF ±0.15 FROM CENTERLINE OF THE LATCH.



LEFT HAND LATCH SHOWN

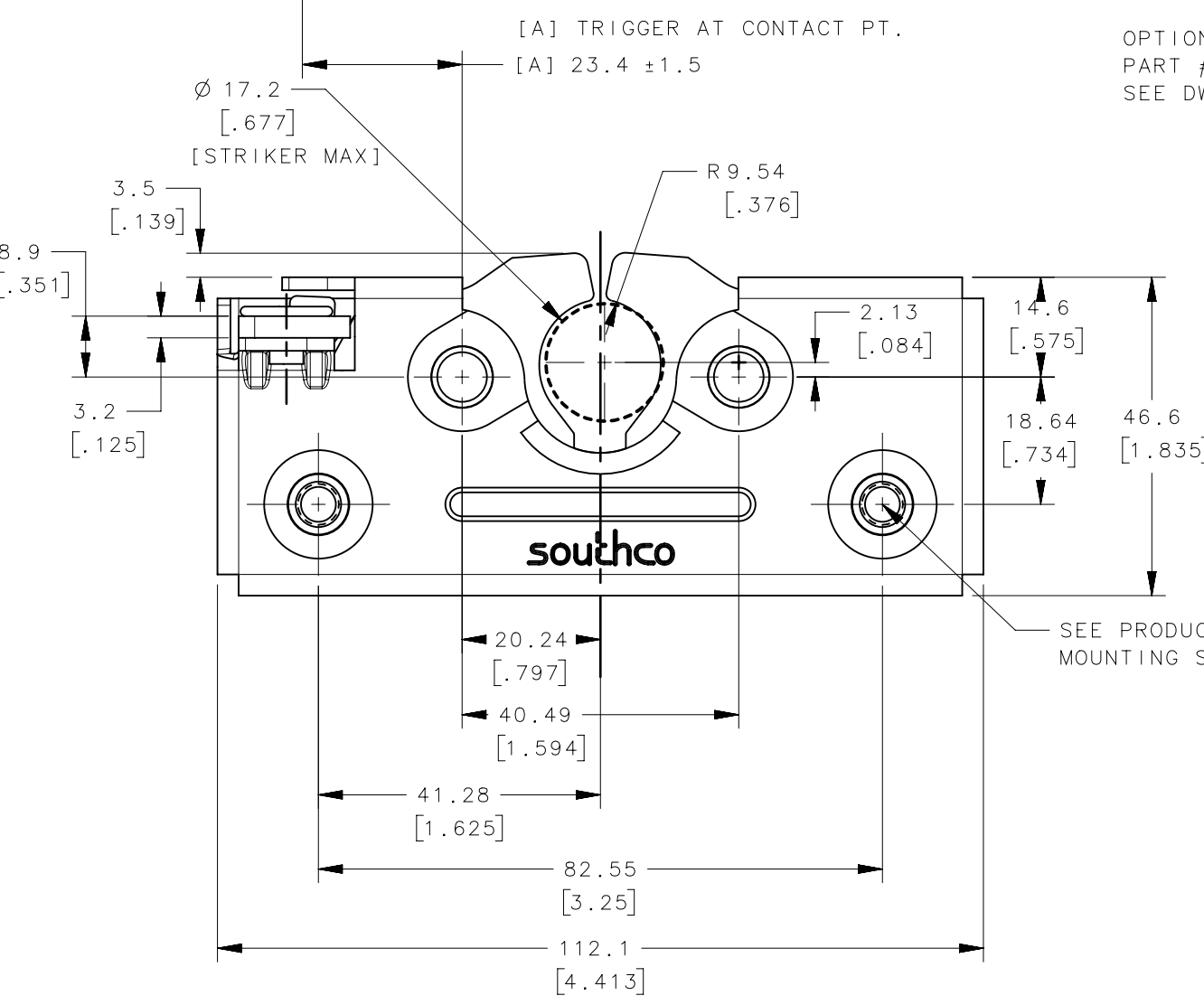


OPTIONAL CABLE MOUNTING BRACKET (SOLD SEPARATELY) PART #: AC-900-03-10 SEE DWG: J-AC-900-03-10 FOR DETAILS

ASSEMBLY SHOWN WITH SOUTHCO CABLE TYPE *13* AND CABLE FITTING *B*. SEE DWG: J-AC-C FOR DETAILS

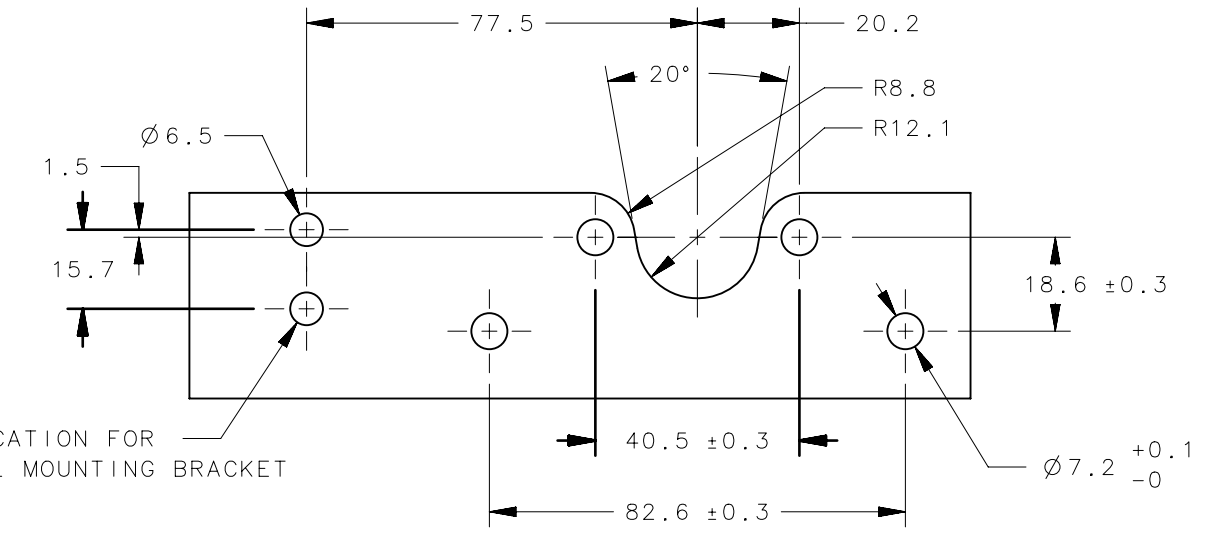
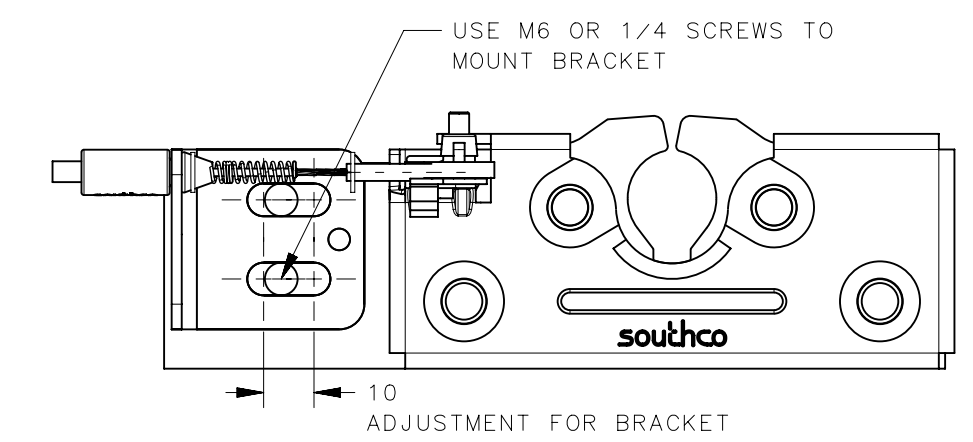
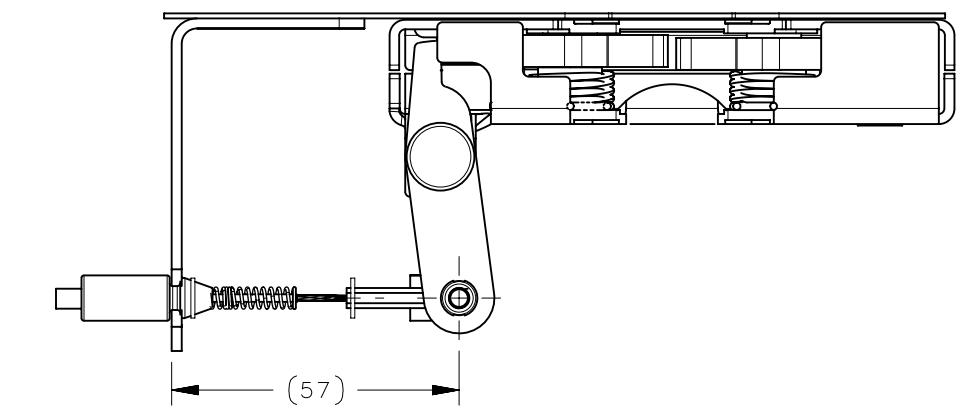
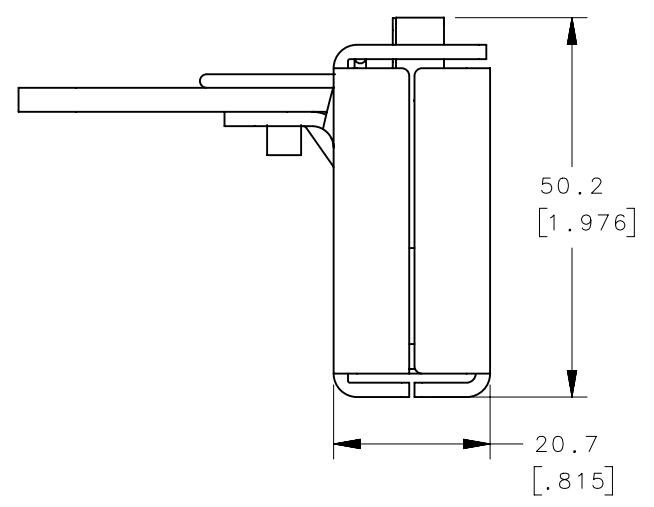
OPTIONAL CABLE ASSEMBLY (SOLD SEPARATELY) PART #: AC-C-XX-XX SEE DWG: J-AC-C FOR DETAILS

OPTIONAL CABLE LINK RETAINER (SOLD SEPARATELY) PART #: R4-0-43922-1 SEE DWG: J-R4-0-43922 FOR DETAILS



[A] TRIGGER AT CONTACT PT. [A] 23.4 ± 1.5

SEE PRODUCT LIST FOR MOUNTING STYLES AVAILABLE



PANEL PREPARATION

PART NUMBER R4-50-SI-101-10

STAGE AND ACTUATION:

- 1 - SINGLE STAGE RH LATCH
- 2 - SINGLE STAGE LH LATCH
- 3 - TWO STAGE RH LATCH
- 4 - TWO STAGE LH LATCH

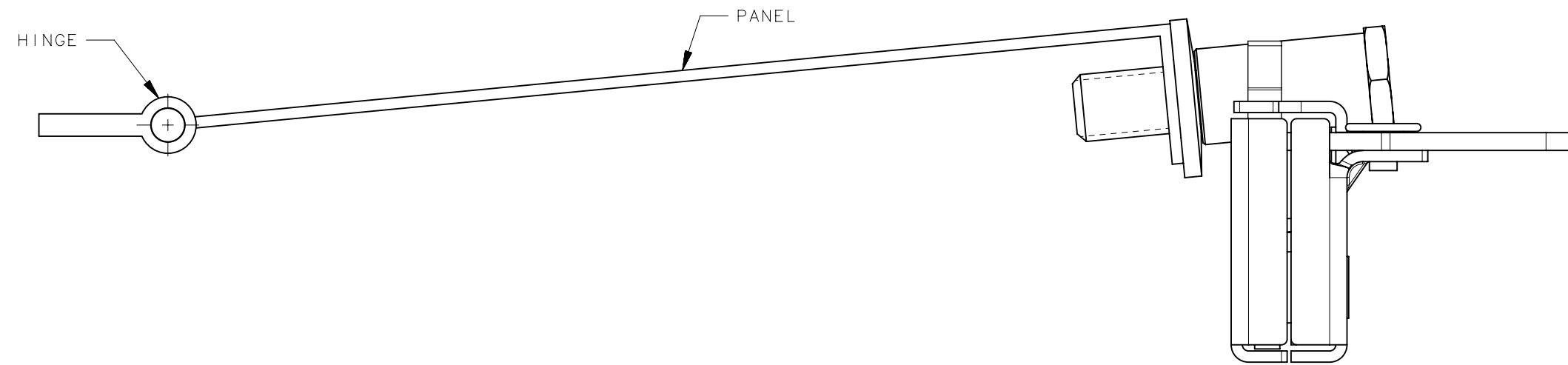
MOUNTING STYLE:

- 0 - 7.2MM THRU HOLE
- 1 - 1/4-20 THREADED
- 2 - M6 THREADED

THIRD ANGLE PROJECTION			
MILLIMETERS [IN]			
SURFACE AREA		DESCRIPTION RH & LH ROTARY LATCH	
VOLUME		SIZE C	SYSTEM NX
PROPRIETARY ITEM EXCEPT FOR USES EXPRESSLY GRANTED IN WRITING, INFORMATION DISCLOSED HEREIN IS CONFIDENTIAL AND ALL RIGHTS, PATENT AND OTHERWISE, ARE RESERVED BY SOUTHCO, INC.		DWG NO. J-R4-50	SCALE 2/3
PER ASME Y14.5M-2009		DRAWN BY CMK	DATE 21NOV07
		SHEET 1	OF 2

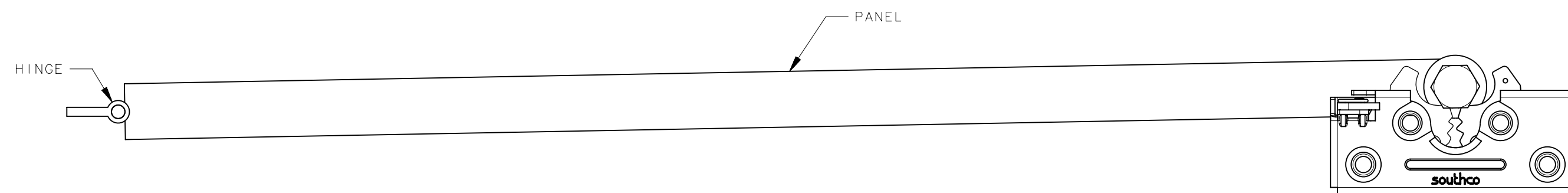
REVISION HISTORY			
REV	DATE	BY	DESCRIPTION
I	01JUL2024	PSP/SAK	PRN: P2024-1142

CASE A: STRIKER AXIS PERPENDICULAR TO PANEL HINGE AXIS



SCALE 1:1

CASE B: STRIKER AXIS PARALLEL TO PANEL HINGE AXIS



SCALE 1:2

NOTES:

8. R4-50 SERIES ROTARY LATCHES ARE NOT INTENDED TO BE USED AS DOOR/PANEL LOCATING FEATURES.
9. PLEASE CONSULT SOUTHCO TECHNICAL SUPPORT TO DISCUSS DESIGN CONSIDERATIONS FOR INCORPORATION INTO HIGH VIBRATION APPLICATIONS.
10. SYSTEMS THAT ARE REPRESENTED BY CASE "B" BELOW ARE NOT RECOMMENDED FOR PANELS LESS THAN 600mm FROM HINGE AXIS TO STRIKER AXIS. SHORT PANEL LENGTHS OR A LARGE OFFSET BETWEEN THE STRIKER AXIS AND PANEL FACE MAY REQUIRE ADJUSTMENT TO LATCH PANEL PREP FOR PROPER FUNCTION.
11. PAWL SPRING LOADS ARE INTENDED TO ENSURE PAWLS ARE ABLE TO FULLY OPEN ACROSS CYCLE LIFE. PAWL SPRING LOADS ARE NOT INTENDED TO BE USED FOR PANEL KICK OUT.
12. WHEN LATCHED, ACTUATION LEVER SHOULD HAVE FREEPLAY SUCH THAT IT IS NOT PROVIDING A LOAD ONTO THE TRIGGER. FAILURE TO MAINTAIN LEVER FREEPLAY COULD RESULT IN LOWER ULTIMATE LATCHING LOADS.

CPB NUMBER 2014-0869	THIRD ANGLE PROJECTION		southco CONNECT • CREATE • INNOVATE
	MILLIMETERS [IN]		
SURFACE AREA	TOLERANCES UNLESS OTHERWISE NOTED	DESCRIPTION RH & LH ROTARY LATCH	
VOLUME	ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.	SIZE C NX	DWG NO. J-R4-50
PROPRIETARY ITEM EXCEPT FOR USES EXPRESSLY GRANTED IN WRITING, INFORMATION DISCLOSED HEREON IS CONFIDENTIAL AND ALL RIGHTS, PATENT AND OTHERWISE, ARE RESERVED BY SOUTHCO, INC.	PER ASME Y14.5M-2009	DRAWN BY CMK	DATE 21NOV2007
	1:1	2 OF 2	SCALE SHEET 2 OF 2