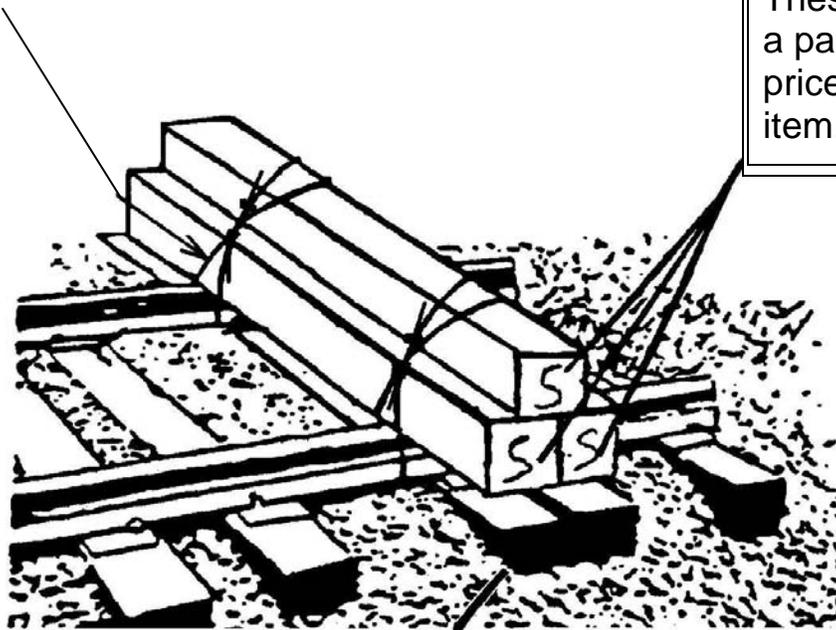


CROSSTIE & CABLE BUMPER

Loop 5/8" diameter cable under the rail. Fasten the cable tightly in a Figure 8 pattern and secure with two cable clamps.



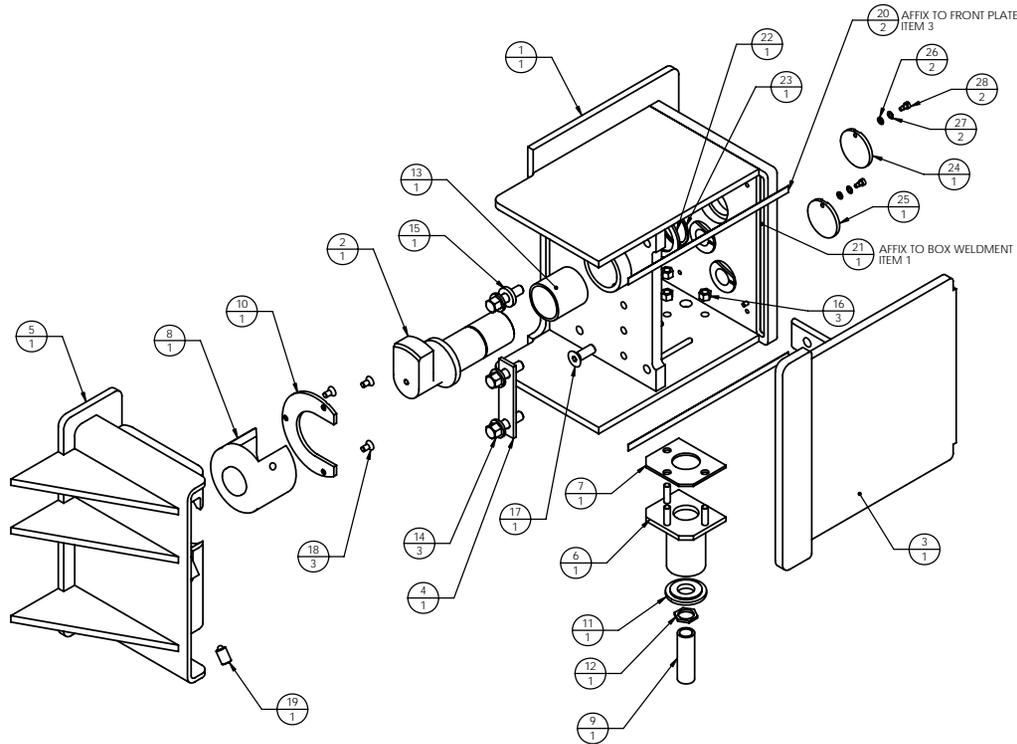
These three ties are a part of the unit price for this line item.

Ties shall be doubled under the bumper. Respacing ties to accomplish this is a part of the unit price.

Crosstie and Cable Bumper shall consist of 3 new crossties, secured to the track by two lengths (approx. 16') of 5/8" cable and four clamps. Cables shall be drawn tight before clamping. The ties under the bumper shall be mechanically tamped (S.A.D.) prior to bumper installation and is a part of the unit price. Replacement of grade ties, rail, or ballast is not a part of the unit price.

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	REVISED RECEIVER DESIGN	6/04	
B	ADDED THRUST BEARING & RETAINING RING ITEMS 22 & 23.	7/06	



NOTES:

- INTERPRET DRAWING PER ASME Y14.100, Y14.24, Y14.3, Y14.35M. DRAWING PREPARED IAW ANSI/ASME Y14.5M 1994.
- TOTAL WEIGHT: APPROX 125 LBS.

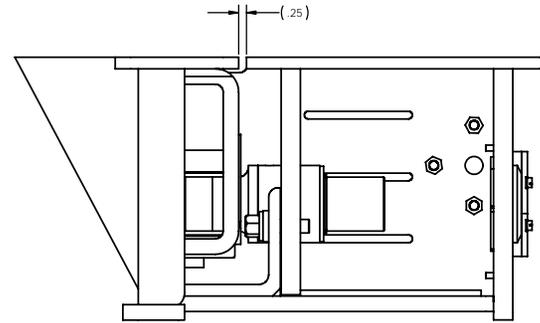
ITEM NO.	QTY.	PART NO.	DESCRIPTION
28	2	94035A202	SHOULDER SCREW, .19 DIA X .19 L (McMASTER CARR)
27	2	9716K41	DISC SPRING, .37 OD X .009 THK (McMASTER CARR)
26	2	90945A740	WASHER, .35 OD X .03 THK (McMASTER CARR)
25	1	301214-2	KEYHOLE COVER "B"
24	1	301214-1	KEYHOLE COVER "A"
23	1	91650A530	SPIRAL RETAINING RING, 18-8 CRES, .062 THK (McMASTER CARR)
22	1	5906K414	THRUST BEARING, SAE 841, 2.44 OD x 1.75 ID x .125 THK (McMASTER CARR)
21	1	93725K52	EPDM FOAM RUBBER STRIP, 3/8" WIDE x 9.5" L, ADHESIVE BACK (McMASTER CARR)
20	2	93725K52	EPDM FOAM RUBBER STRIP, 3/8" WIDE x 11.0" L, ADHESIVE BACK (McMASTER CARR)
19	1	84985A83	SPRING PLUNGER, SHORT, 1/2-13UNC, S.S. (McMASTER CARR)
18	3	91253A537	SCREW, FLAT HEAD, 82 DEG, 1/4-20UNC x .5 L, ALLOY STEEL (McMASTER CARR)
17	1	91253A669	SCREW, FLAT HEAD, 82 DEG, 7/16-14UNC x 1.0 L, ALLOY STEEL (McMASTER CARR)
16	3	5/16-18UNC	NUT, HEX, NYLON SELF-LOCKING, 18-8 CRES
15	1	98099A032	WASHER, EXTRA THICK, 7/16, CARBON STEEL (McMASTER CARR)
14	3	92316A652	BOLT, HEX HEAD, GR 8, 7/16-14UNC x 1.5 L (McMASTER CARR)
13	1	6391K442	BEARING, SAE 841, 2.0 OD x 1.75 ID x 2.0 L (McMASTER CARR)
12	1	500085-3	NUT, IDS ADAPTER, 1/2-14NPSM
11	1	400513-2	IDS GUARD COVER
10	1	500083	RECEIVER FLANGE (ALUM)
9	1	500085-2	IDS ADAPTER, 1/2-14NPSM
8	1	500084	RECEIVER TUMBLER (STAINLESS STEEL)
7	1	500085-1	IDS GASKET, NEOPRENE
6	1	500086	IDS GUARD ASSEMBLY
5	1	500088	RECEIVER, SWINGING DOOR
4	1	500089	WASHER BAR
3	1	500080	FRONT PLATE WELDMENT, SWINGING DOOR
2	1	500082	LOCKING BOLT (SWINGING DOOR)
1	1	500097	BOX WELDMENT

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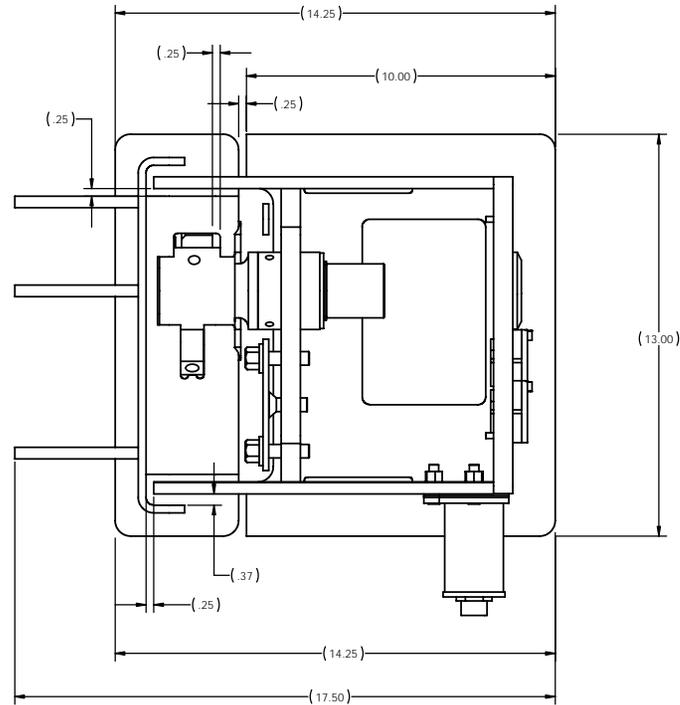
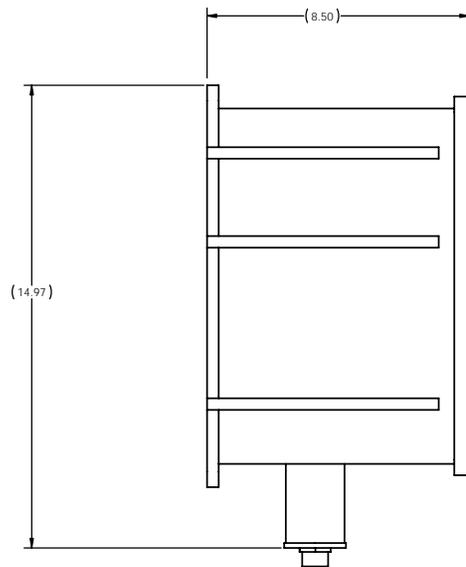
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES:		NAVAL FACILITIES ENGINEERING SERVICE CENTER	
		CODE ESC66	
		PORT HUENEME, CA 93043	
X DECIMALS	±0.030	APPROVALS	DATE
XX DECIMALS	±0.010	DRAWN	RICARL 11/03
XXX DECIMALS	±0.005	CHECKED	
FRACTIONS	±1/16		
ANGLES	±1°		
MATERIAL		BOLTWORK ASSY, SWINGING DOOR (ILD SURFACE MOUNT BOLTWORK)	
NEXT ASSY	USED ON	FINISH	...
APPLICATION		DO NOT SCALE DRAWING	
		MFG ENG	QUAL ENG
SIZE D	CAGE CODE	DWG. NO.	REV
	80091	500099	B
SCALE:1:3		SHEET 1 OF 2	

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	SEE SHT 1	6/04	
B	SEE SHT 1	7/06	



TOP VIEW
PARTIAL VIEW OF ITEM 1

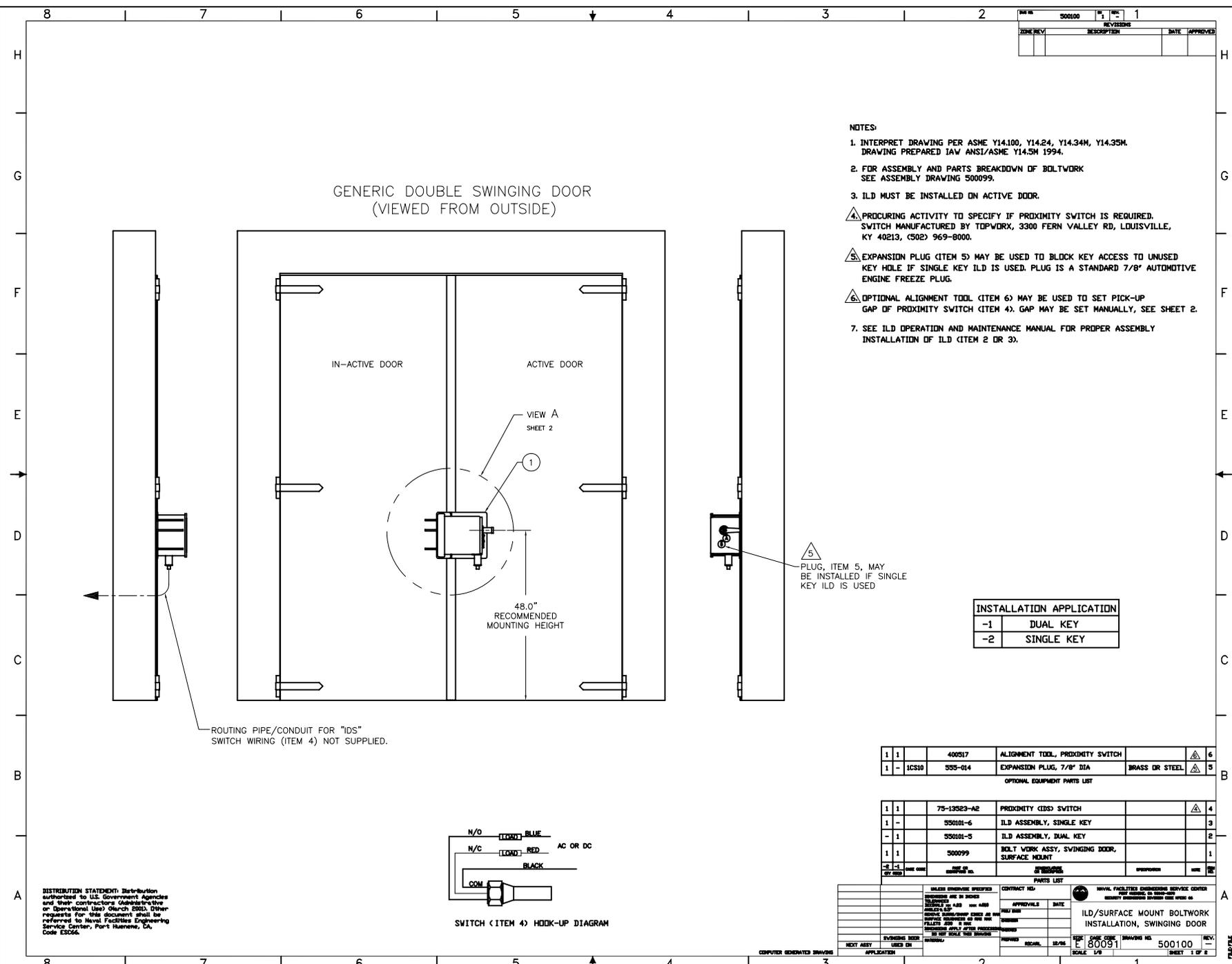


FRONT VIEW
ITEM 3 NOT SHOWN

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SIZE D	CAGE CODE 80091	DWG. NO. 500099	REV. B
SCALE: 1:2		SHEET 2 OF 2	

DO NOT SCALE DRAWING



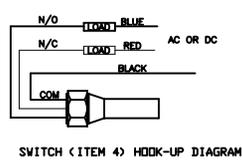
REV NO	500100	REV	1
ZONE REV		DESCRIPTION	DATE APPROVED

- NOTES:
1. INTERPRET DRAWING PER ASME Y14.100, Y14.24, Y14.34M, Y14.35M. DRAWING PREPARED IAW ANSI/ASME Y14.5M 1994.
 2. FOR ASSEMBLY AND PARTS BREAKDOWN OF BOLTWORK SEE ASSEMBLY DRAWING 500099.
 3. ILD MUST BE INSTALLED ON ACTIVE DOOR.
 4. PROCURING ACTIVITY TO SPECIFY IF PROXIMITY SWITCH IS REQUIRED. SWITCH MANUFACTURED BY TOPWORX, 3300 FERN VALLEY RD, LOUISVILLE, KY 40213, (502) 969-8000.
 5. EXPANSION PLUG (ITEM 5) MAY BE USED TO BLOCK KEY ACCESS TO UNUSED KEY HOLE IF SINGLE KEY ILD IS USED. PLUG IS A STANDARD 7/8\"/>
 6. OPTIONAL ALIGNMENT TOOL (ITEM 6) MAY BE USED TO SET PICK-UP GAP OF PROXIMITY SWITCH (ITEM 4). GAP MAY BE SET MANUALLY, SEE SHEET 2.
 7. SEE ILD OPERATION AND MAINTENANCE MANUAL FOR PROPER ASSEMBLY INSTALLATION OF ILD (ITEM 2 DR 3).

PLUG, ITEM 5, MAY BE INSTALLED IF SINGLE KEY ILD IS USED

INSTALLATION APPLICATION	
-1	DUAL KEY
-2	SINGLE KEY

ROUTING PIPE/CONDUIT FOR "IDS" SWITCH WIRING (ITEM 4) NOT SUPPLIED.



1	1	402517	ALIGNMENT TOOL, PROXIMITY SWITCH			6
1	-	1CS10	555-014 EXPANSION PLUG, 7/8\"/>			

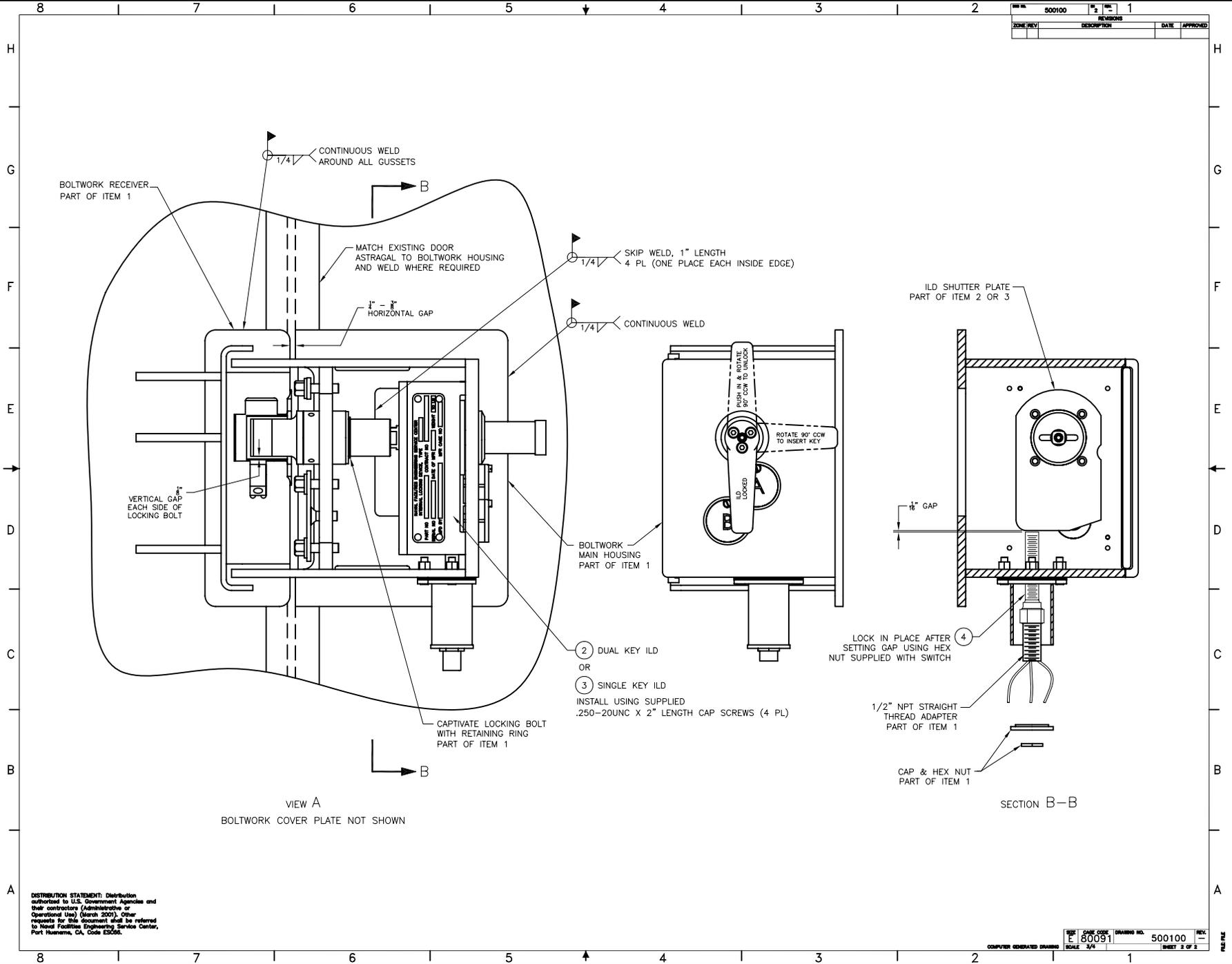
OPTIONAL EQUIPMENT PARTS LIST

1	1	75-13523-A2	PROXIMITY (IDS) SWITCH			4
1	-	550101-6	ILD ASSEMBLY, SINGLE KEY			3
-	1	550101-5	ILD ASSEMBLY, DUAL KEY			2
1	1	500099	BOLT WORK ASSY, SWINGING DOOR, SURFACE MOUNT			1

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SWINGING DOOR NEXT ASBY USED ON APPLICATION		PARTS LIST CONTRACT NO. APPROVALS DATE REV. DATE SCALE 1/8"		NAVAL FACILITIES ENGINEERING SERVICE CENTER 80091 500100 SHEET 1 OF 2	
--	--	---	--	--	--

REV NO.	500100	REV	1
REVISIONS		DATE	APPROVED
ZONE REV	DESCRIPTION		



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Attachment "D"



Interior side of door.

Attachment "D"



Exterior side of door.