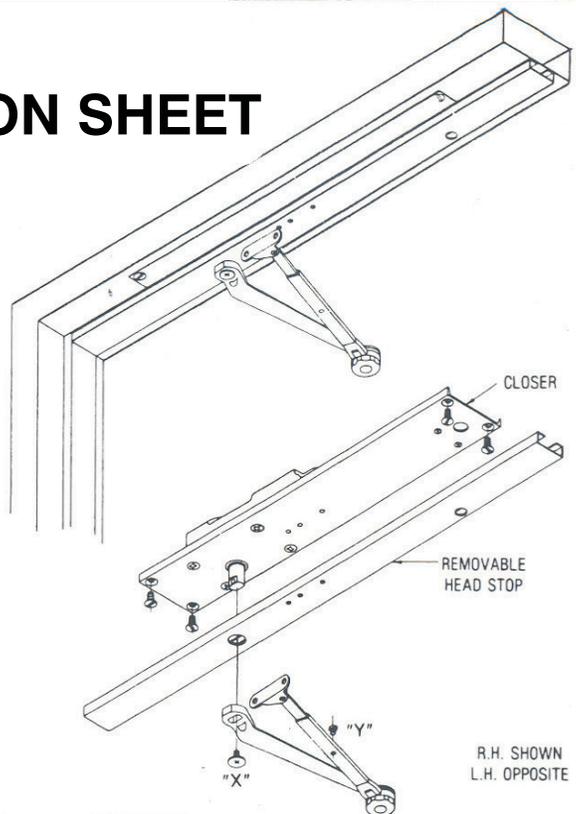
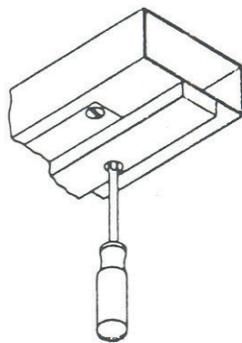
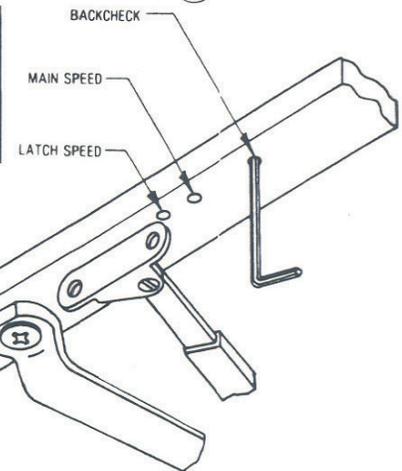
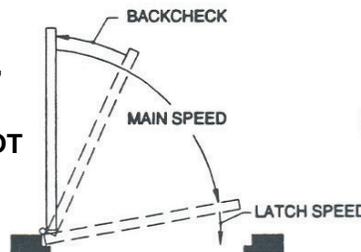


5030 SERIES INSTALLATION INSTRUCTION SHEET

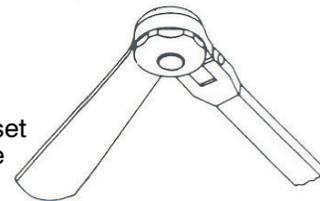
1. Make sure hand of closer and door correspond. Hand of closer is stamped on mounting plate. Hand of closer can not be changed.
2. Determine if door is to be hung on hinges, offset pivots or center pivots. If frame is not prepared for closer, prepare to dimensions shown on proper template. Note: On butt hinge applications, closer can be templated for 100° or 180° of opening.
3. Install closer in prepared frame with fasteners provided. Be sure mounting plate is flush with soffit. Install head stop.
4. Hang door. Be sure there is no bind or friction. Place main arm on shaft and push up into position. Insert arm screw and tighten securely. Close door and install shoe. Open door slightly and insert rod in forearm. Close door. Starting with main arm at right angle to door, move arm toward latch until holes in rod and tube line up. Insert and tighten screw.



5. **REGULATION:** Door closer regulation is preset at the factory. Adjust as follows only if necessary: A "normal" closing time from a 90° open position is 5 to 7 seconds, evenly divided between main speed and latch speed (see figure below). Use a 3/32" hex wrench to adjust regulating screws. To slow main speed of door, turn middle regulating screw clockwise. To slow latch speed, turn regulating screw closest to hinge clockwise. **BACKCHECK:** To increase backcheck intensity, turn regulating screw closest to the latch clockwise. **DO NOT USE ABRUPT BACKCHECK. DO NOT USE DOOR CLOSER AS A DOOR STOP.**

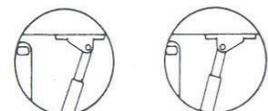


7. To adjust 90° hold-open arm (up to 100° opening). The hold open feature is at the elbow. Arm is preset to hold door open at approximately 90°. To change setting, loosen adjusting nut, open door to desired hold open position, tighten adjusting nut.



6. Adjust **CLOSING POWER** only if more power is needed. Closer is shipped with minimum closing power pre-set. To increase **CLOSING POWER** turn spring adjusting screw clockwise. Maximum adjustment 36 turns.

8. To adjust for additional closing power at latch. (Regular & 90° H.O. only)
 - A Remove screw "Y" (step 4) and separate rod from tube.
 - B Remove shoe screws and turn shoe over.
 - C Reassemble arm.



STANDARD POWER INCREASED POWER

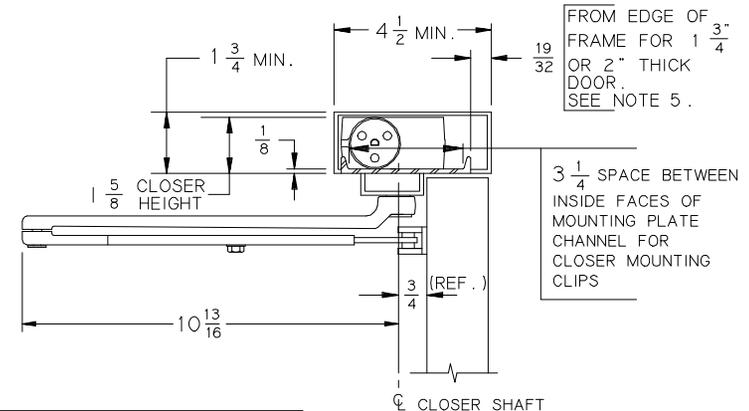
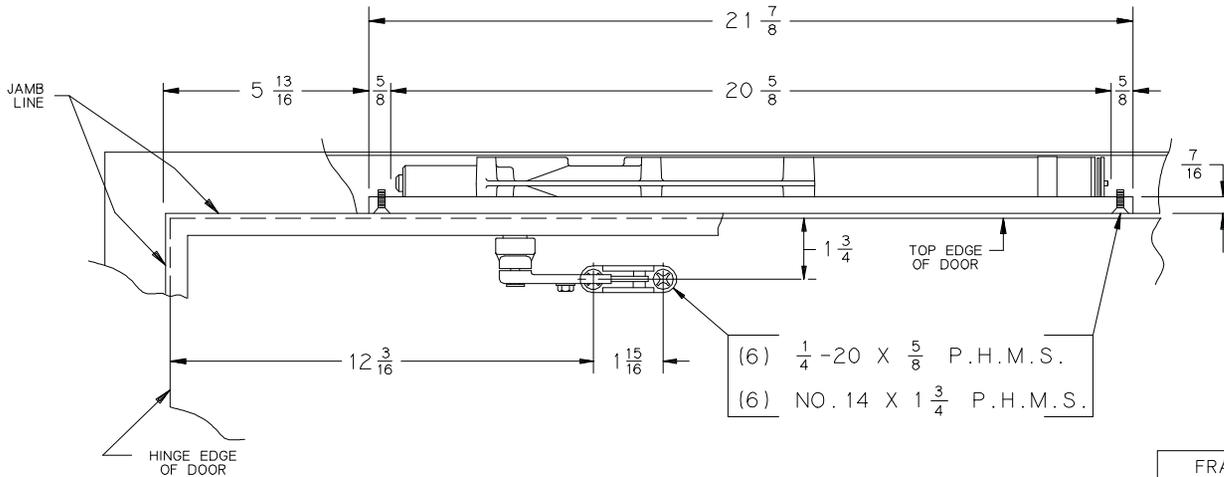
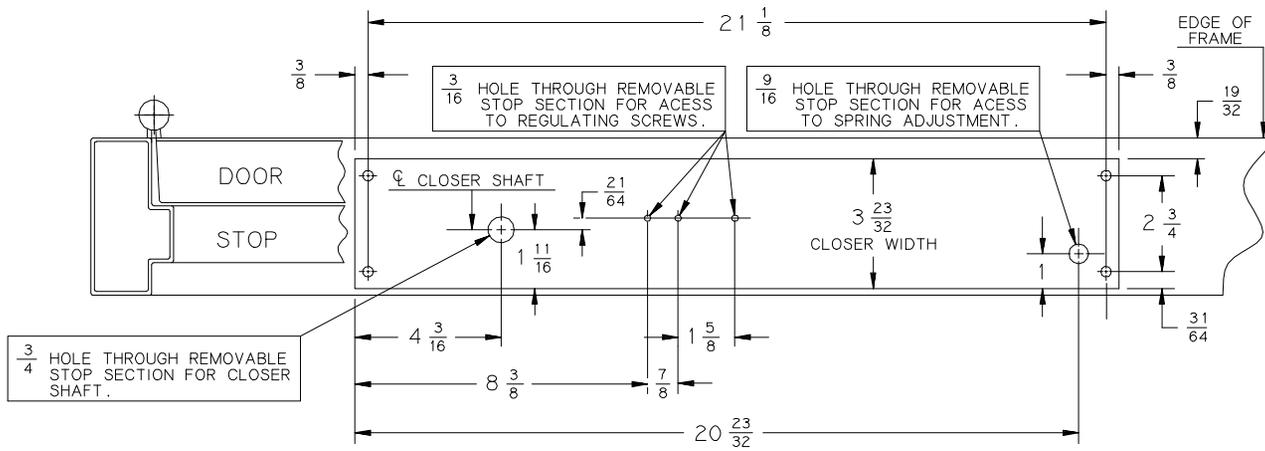
5031 } NON HOLD OPEN (UP TO 100°)
 5032 }
 5033 } H-90° (UP TO 100°)
 5034 }
 5035 }
 5036 }

AUXILIARY STOP RECOMMENDED
 LEFT HAND DOOR AND CLOSER SHOWN, RIGHT HAND OPPOSITE 6/96

NOTES :

1. FOR DOOR OPENINGS GREATER THAN 100° SEE 5030 (101° TO 180°) TEMPLATE.
2. MAXIMUM STOP THICKNESS $\frac{5}{8}$ ".
3. $\frac{1}{8}$ " DOOR TO SOFFIT CLEARANCE REQUIRED.
4. REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOORS & FRAMES.
5. FOR DOORS THICKER THAN $1\frac{3}{4}$ " CONSULT LCN.

AN ALUMINUM COMBINATION MOUNTING AND FINISH PLATE IS INCLUDED AS PART OF THE CLOSER. AN APPLIED REMOVABLE HEADSTOP MUST BE USED AND MOUNTED BETWEEN SIDE STOPS FOR REMOVABILITY. MOUNTING SCREW HOLES FOR REMOVABLE HEADSTOP MUST SPAN CLOSER MOUNTING/FINISH PLATE



FRAME PREPARATION MAY BE IN WOOD, HOLLOW METAL OR ALUMINUM TUBE. CONSULT FACTORY IF FRAME DETAIL IS DIFFERENT.

THIS TEMPLATE FOR OPENINGS UP TO 100° ONLY.

inch	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	
mm	3	5	6	8	10	11	12	14	15	16	19	22	25	41	43	44
inch	1 15/16	2	2 3/4	3 1/4	3 23/32	4 3/16	4 1/2	5 13/16	8 3/8	10 13/16	12 3/16	20 5/8	20 23/32	21 1/8	21 7/8	
mm	49	51	70	83	94	106	114	148	213	275	310	524	526	537	556	

No.	REVISION	BY	DATE
1	CAD CONVERSION	CTB	6/93
2	TEMPLATE UPDATE	JEJ	6/96
3	TEMPLATE UPDATE	AMM	2/98

LCN

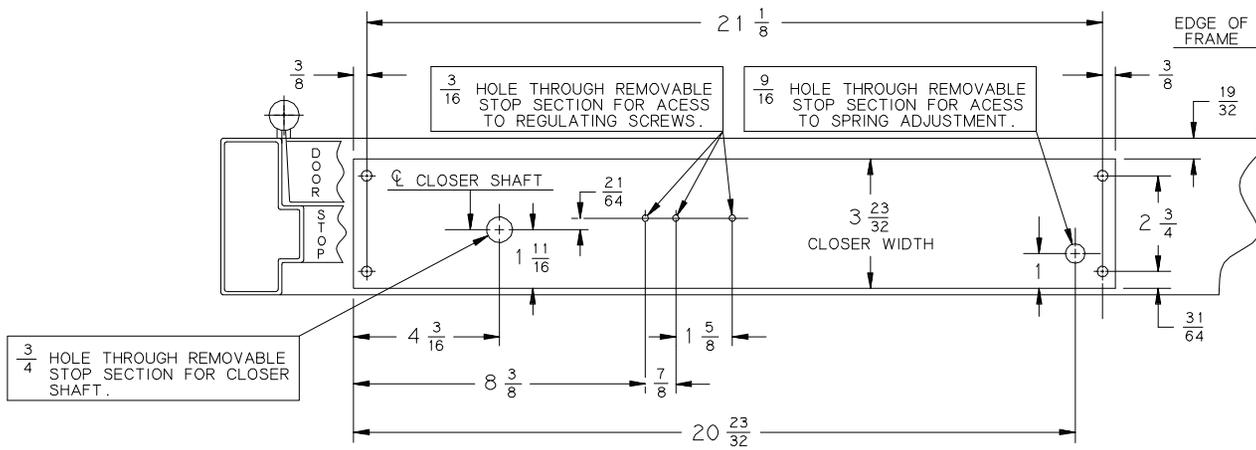
APP BY JEJ 6/96
DO NOT SCALE

OVERHEAD CONCEALED CLOSER WITH STANDARD ARM

5030 (UP TO 100°)

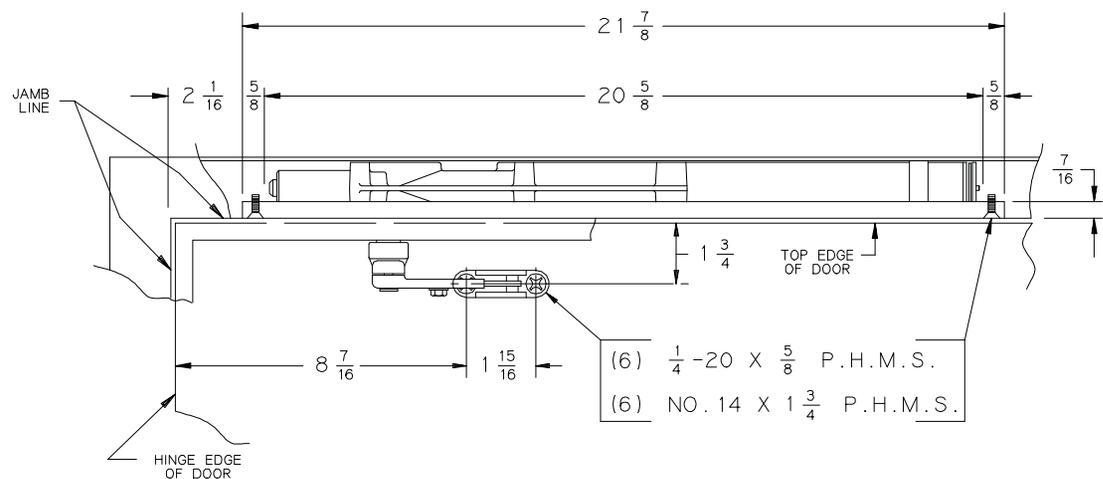
5031 } NON HOLD OPEN (101° TO 180°)
 5032 }
 5033 } H-180° (101° TO 180°)
 5034 }
 5035 }
 5036 }

AUXILIARY STOP RECOMMENDED
 LEFT HAND DOOR AND CLOSER SHOWN. RIGHT HAND OPPOSITE 6/96

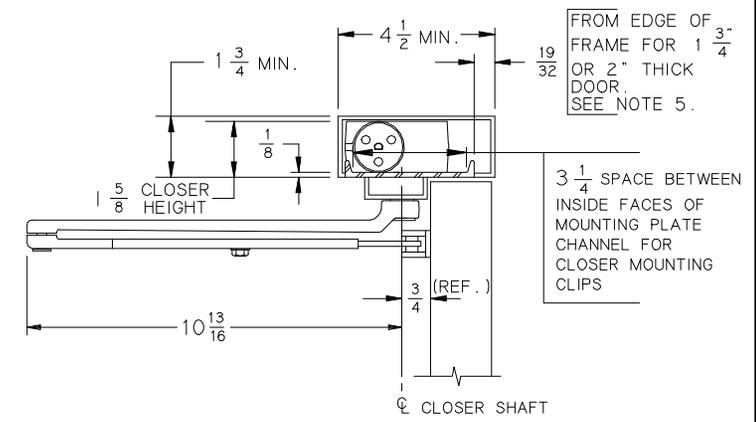


3/4 HOLE THROUGH REMOVABLE STOP SECTION FOR CLOSER SHAFT.

- NOTES :
- FOR DOOR OPENINGS LESS THAN 101° SEE 5030 (UP TO 100°) TEMPLATE
 - MAXIMUM STOP THICKNESS 5/8".
 - 1/8" DOOR TO SOFFIT CLEARANCE REQUIRED.
 - FOR 180° OPENINGS, MAXIMUM ALLOWABLE BUTT HINGE SIZE IS 6" X 6".
 - REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOORS & FRAMES.
 - FOR DOORS THICKER THAN 1 3/4" CONSULT LCN.



FRAME PREPARATION MAY BE IN WOOD, HOLLOW METAL OR ALUMINUM TUBE. CONSULT FACTORY IF FRAME DETAIL IS DIFFERENT.



AN ALUMINUM COMBINATION MOUNTING AND FINISH PLATE IS INCLUDED AS PART OF THE CLOSER. AN APPLIED REMOVABLE HEADSTOP MUST BE USED AND MOUNTED BETWEEN SIDE STOPS FOR REMOVABILITY. MOUNTING SCREW HOLES FOR REMOVABLE HEADSTOP MUST SPAN CLOSER MOUNTING/FINISH PLATE

THIS TEMPLATE FOR OPENINGS FROM 101° TO 180° ONLY.

inch	1/8	3/16	1/4	21/64	3/8	7/16	31/64	9/16	19/32	5/8	3/4	7/8	1	1 5/8	1 11/16	1 3/4	1 15/16
mm	3	5	6	8	10	11	12	14	15	16	19	22	25	41	43	44	49
inch	2	2 1/16	2 1/2	2 3/4	3 1/4	3 23/32	4 3/16	4 1/2	6	8 3/8	8 7/16	10 13/16	20 5/8	20 23/32	21 1/8	21 7/8	
mm	51	52	64	70	83	94	106	114	152	213	214	275	524	526	537	556	

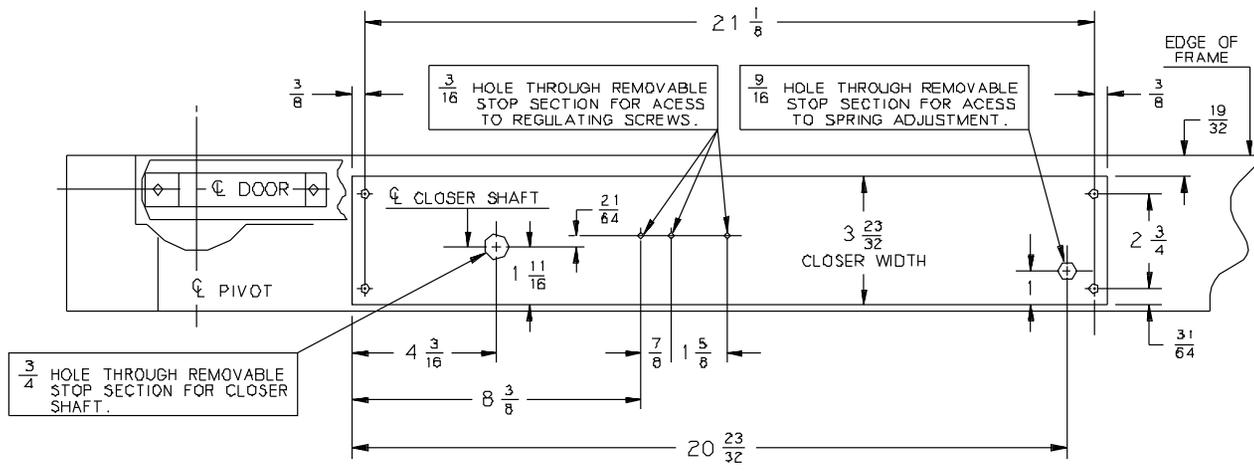
No.	REVISION	BY	DATE
1	CAD CONVERSION	CTB	6/93
2	TEMPLATE UPDATE	JEJ	6/96
3	TEMPLATE UPDATE	AMM	2/98
4	REMOVED H180 ARM	JDT	9/09

LCN
 APP BY JEJ 6/96
 DO NOT SCALE
 OVERHEAD CONCEALED CLOSER WITH STANDARD ARM
 5030(101° TO 180°)

5031 } NON HOLD OPEN (UP TO 120°)
 5032 } H-90° (UP TO 120°)
 5033 }
 5034 }
 5035 }
 5036 }

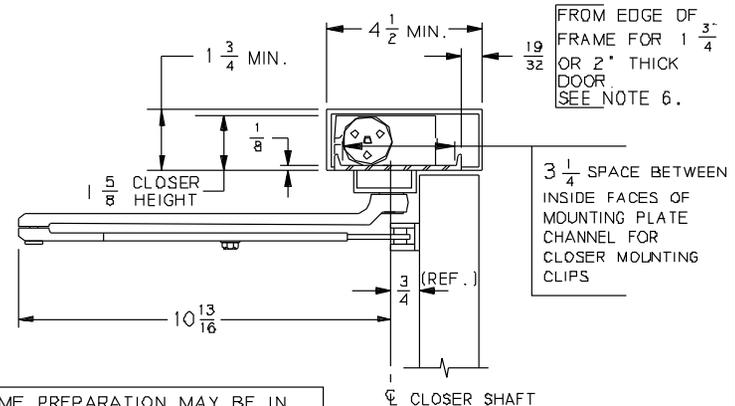
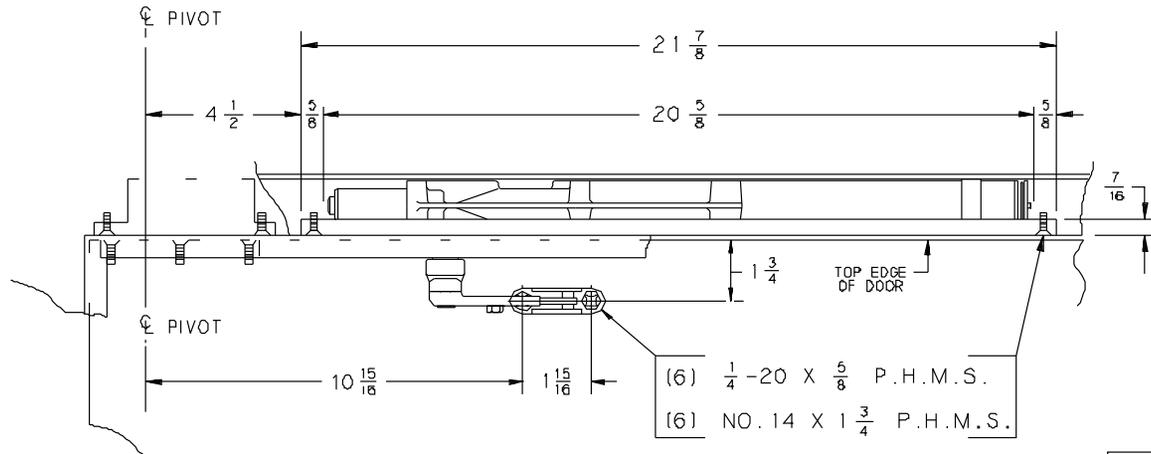
AUXILIARY STOP RECOMMENDED

LEFT HAND DOOR AND CLOSER SHOWN. RIGHT HAND OPPOSITE 6/96



- NOTES :
- 1 - MAXIMUM STOP THICKNESS $\frac{5}{8}$ "
 - 2 - $\frac{1}{8}$ " DOOR TO SOFFIT CLEARANCE REQUIRED.
 - 3 - REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOOR AND FRAMES.
 - 4 - FOR DOORS THICKER THAN $1\frac{3}{4}$ " CONSULT LCN.

AN ALUMINUM COMBINATION MOUNTING AND FINISH PLATE IS INCLUDED AS PART OF THE CLOSER. AN APPLIED REMOVABLE HEADSTOP MUST BE USED AND MOUNTED BETWEEN SIDE STOPS FOR REMOVABILITY. MOUNTING SCREW HOLES FOR REMOVABLE HEADSTOP MUST SPAN CLOSER MOUNTING/FINISH PLATE.



FRAME PREPARATION MAY BE IN WOOD, HOLLOW METAL OR ALUMINUM TUBE. CONSULT FACTORY IF FRAME DETAIL IS DIFFERENT

inch	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	
mm	3	5	6	8	10	11	12	13	14	15	
inch	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{15}{16}$	2	$2\frac{3}{4}$	$3\frac{1}{4}$
mm	16	19	22	25	41	43	44	49	51	70	83
inch	$3\frac{23}{32}$	$4\frac{1}{16}$	$4\frac{1}{2}$	$5\frac{1}{4}$	$6\frac{1}{8}$	$10\frac{13}{16}$	$10\frac{15}{16}$	$20\frac{1}{8}$	$20\frac{23}{32}$	$21\frac{1}{8}$	$21\frac{7}{8}$
mm	94	106	114	133	213	275	278	524	526	537	556

No.	REVISION	BY	DATE
1	CAD CONVERSION	CTB	6/93
2	TEMPLATE UPDATE	JEJ	6/96
3	TEMPLATE UPDATE	AMM	2/98
4	REMOVED PIVOT INFO.	AMM	5/01

LCN[®]

APP BY JEJ 6/96
DO NOT SCALE

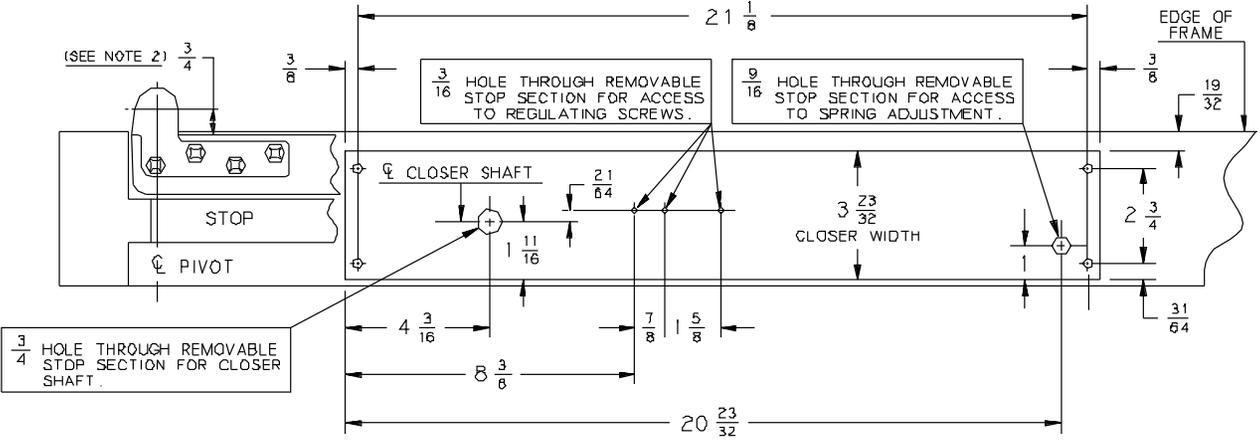
OVERHEAD CONCEALED CLOSER WITH STANDARD ARM

5030-CP

5031-OP }
 5032-OP } H-90° (UP TO 115°)
 5033-OP }
 5034-OP }
 5035-OP }
 5036-OP }

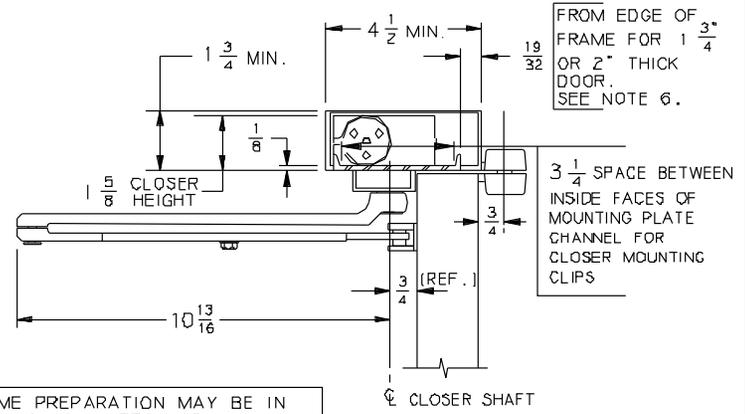
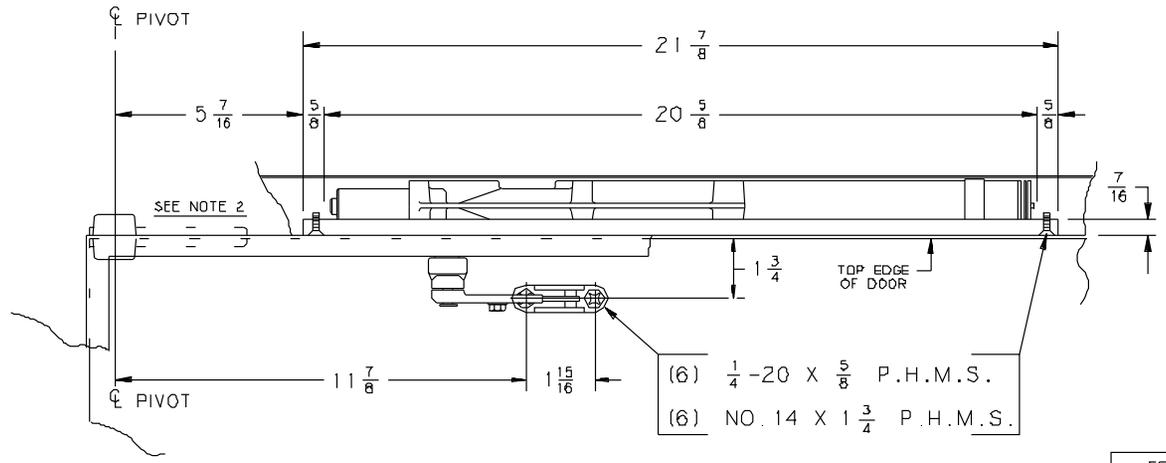
AUXILIARY STOP RECOMMENDED

LEFT HAND DOOR AND CLOSER SHOWN, RIGHT HAND OPPOSITE 6/96



- NOTES :
- 1 - BEVEL HEEL EDGE OF DOOR $\frac{1}{8}$ " IN 2".
 - 2 - FOR PIVOT INSTALLATION DETAILS, SEE 7220 SERIES PIVOT TEMPLATE.
 - 3 - MAXIMUM STOP THICKNESS $\frac{5}{8}$ ".
 - 4 - $\frac{1}{16}$ " DOOR TO SOFFIT CLEARANCE REQUIRED.
 - 5 - REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOOR AND FRAMES.
 - 6 - FOR DOORS THICKER THAN $1\frac{3}{4}$ " CONSULT LCN.

AN ALUMINUM COMBINATION MOUNTING AND FINISH PLATE IS INCLUDED AS PART OF THE CLOSER. AN APPLIED REMOVABLE HEADSTOP MUST BE USED AND MOUNTED BETWEEN SIDE STOPS FOR REMOVABILITY. MOUNTING SCREW HOLES FOR REMOVABLE HEADSTOP MUST SPAN CLOSER MOUNTING/FINISH PLATE.



FRAME PREPARATION MAY BE IN WOOD, HOLLOW METAL OR ALUMINUM TUBE. CONSULT FACTORY IF FRAME DETAIL IS DIFFERENT.

inch	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
mm	2	3	5	6	8	10	11	12	14	15
inch	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
mm	16	19	25	41	43	44	49	51	70	83
inch	3 23/32	4 3/16	4 1/2	5 7/16	6 3/8	10 13/16	11 7/8	20 5/8	20 23/32	21 1/8
mm	94	106	114	138	213	275	302	524	526	537

No.	REVISION	BY	DATE
2	TEMPLATE UPDATE	JEJ	6/96
3	TEMPLATE UPDATE	AMM	2/98

LCN
 APP BY JEJ 6/96
 DO NOT SCALE
 OVERHEAD CONCEALED CLOSER
 WITH STANDARD ARM
5030-OP