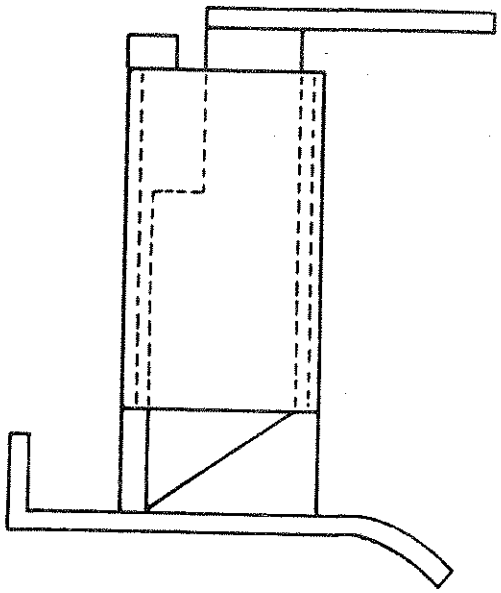
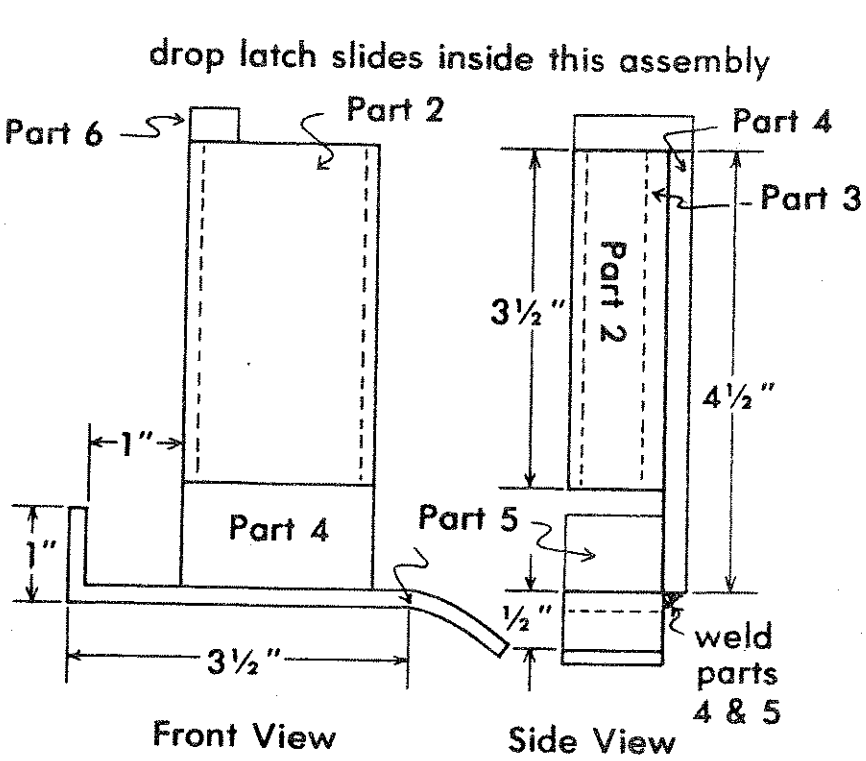
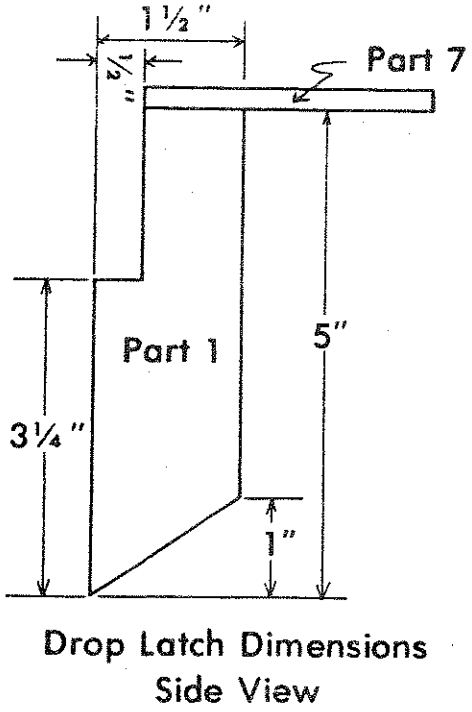
Drop Latch Gate Lock



ASSEMBLED FRONT VIEW
OF LATCH ASSEMBLY



LATCH HOLDER



Drop Latch Dimensions
Side View

BILL OF MATERIAL

Part Number	Material	Length
1	⅜" x 1½" flat iron	5"
2	2" channel iron	3½"
3	¼" x 1½" flat iron	3½"
4	¼" x 2" flat iron	4½"
5	¼" x 1" flat iron	5½"
★6	⅜" x ½" flat iron	1¼"
7	¼" rod	3"

DROP LATCH GATE LOCK	
Designed by: Dale Ratcliff	
Scale: ½" = 1"	Drawn by: D.S.S.
Plan Number AG-409-P	

★ this piece can be cut from
the waste material of part number one

DROP LATCH GATE LOCK

by

Dale L. Ratcliff

CONSTRUCTION PROCEDURE:

1. Cut one piece of 2" channel iron 3 1/2" long. (Part #2)
2. Cut one piece of 1/4" x 1 1/2" flat iron 3 1/2" long. (Part #3)
3. Cut one piece of 1/4" x 2" flat iron 4 1/2" long. (Part #4)
4. Lay Part #2 on top of Part #4, making the sides and one end of each piece of metal even. The flat metal will be 1" longer than the channel iron. Weld the two pieces of metal together along the outside edges.
5. Position Part #3 inside the two pieces you have just welded together, placing it against the other piece of 1/4" flat with the ends even with the ends of the channel. Weld the two pieces of flat metal together on the ends, making sure that none of the weld extends over into the inside area between the short piece of flat iron (Part #3) and the piece of channel (Part #2).
6. Cut one piece of 1/4" x 1" flat iron 5 1/2" long. (Part #5) Bend this piece of metal into the configuration as shown on the drawing.
7. Weld the pieces of metal that you put together in steps 4 and 5 to Part #5 after it has been bent into the proper shape. Note: Part #5 may be welded on with the bent-up right angle end either on the RIGHT OR LEFT depending upon which side of the gate the latch is to be placed. The drop latch (Part #1) will have to be reversed as well as Part #6 if Part #5 is welded on opposite to the view in this plan.
8. Using 3/8" x 1 1/2" flat iron, mark and cut this metal to the dimensions and shape shown in the drawing. (Part #1)
9. Cut one piece of 1/4" rod 3" long (Part #7) and position this rod onto Part #1 and weld along the sides.
10. Using the waste material from Part #1, cut one piece of 3/8" x 1/2" flat iron 1 1/4" long. (Part #6)
11. Drop the latch (Parts #1 & 7 welded together) into the holder assembly, being certain that the angled portion of the drop latch (Part #1) is to the open side of the latch holder assembly. Check to see that the drop latch will slide freely in the holder. When all is working to your satisfaction, weld on Part #6 so that the drop latch cannot bounce out of the holder.
12. The assembly is now ready for installation.

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