NOTE:
BUCKETS CONSTRUCTED OF MATERIALS OR DIMENSIONS DIFFERENT FROM THOSE SHOWN MAY NOT FUNCTION AS FREE-SWINGING BUCKETS.

LIST OF MATERIALS

SHEET METAL
1 - 4'-0"x 8'-6 1/2"x 16 GA. SHEET METAL (BEND TO FORM FRONT, BOTTOM, & BACK)
2 - 3'-0"x 3'-0"x 16 GA. SHEET METAL ENDS.

TOP FRAME
2 - 2"x 2" x 1/8" x 3'-4" LONG ANGLE.
2 - 2"x 2" x 1/8" x 4'-0" LONG ANGLE.

END FRAMES
2 - 1 1/2"x 1 1/2"x 1/8"x 2'-10" ANGLE.
2 - 1 1/2"x 1 1/2"x 1/8"x 2'-6" ANGLE.
2 - 1 1/2"x 1 1/2"x 1/8"x 2'-10" ANGLE.

PIVOT MECHANISM
2 - 2"x 2"x 1/8"x 2'-10" ANGLE (PIVOT MOUNTS)
2 - 1 1/2"x 1 1/2"x 1/8"x 1'-5" ANGLE STRUT BRACES.
2 - 1/4"x 10" LONG SHAFTS.
4 - 5"x 3/4" PLATES.
8 - 3/8"x 2 1/2" MACHINE BOLTS.
2 - 1/4" PILLAR BLOCK BEARINGS.
1/2"x 1/2"x 1/4" SHIMS (AS REQUIRED FOR BALANCING.)

MOVEMENT OF THE FREE-SWINGING BUCKET
AS WATER IS ADDED

EMPTY POSITION

MAXIMUM FORWARD TIP

MAXIMUM BACKWARD TIP

FULL POSITION