FREESTANDING ALUMINUM TOWER
MODEL #3-80

TOTAL WEIGHT: 212 LBS.

WIND LOADING:
80 mph  3.0 Sq. Ft.
100 mph  0.5 Sq. Ft.

Contact Universal Towers to confirm geographical location of your tower and all wind load implications.

ELEVATION
SCALE: 3/32"=1'=0"

ISOMETRIC
SCALE: N.T.S.

WARRANTY
UNIVERSAL TOWERS ARE WARRANTED AGAINST DEFECTIVE MATERIAL OR WORKMANSHIP AND ARE SUBJECT TO REPAIR OR TO MATERIAL REPLACEMENT ONLY IF FAILURE RESULTS FROM THESE FACTORS WITHIN ONE YEAR FROM PURCHASE BY USER. THIS WARRANTY DOES NOT EXTEND TO ANY OF OUR PRODUCTS WHICH HAVE BEEN SUBJECTED TO MISUSE, NEGLECT, ACCIDENT, IMPROPER INSTALLATION OR APPLICATION, NOR SHALL IT EXTEND TO UNITS WHICH HAVE BEEN REPAIRED OR SUBSTANTIALLY ALTERED OUTSIDE OF OUR FACTORY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.
1½" MIN. LENGTH ARGON GAS ‘MIG’ WELD (TYP.)

2½" TAPER

6 EQUAL SPACES AT 18" EACH = 7'-6"

1½" DIA. ALUMINUM BARS - BENT AS SHOWN - ½" R. MIN.

1×0.065 WALL ALUMINUM TUBE

SWAGE 3" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 0.85" DIA. 0.035" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ISOMETRIC
SCALE: N.T.S.

10½ CC

9½ CC WEBBING

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"

TOP SECTION

UNIVERSAL TOWERS
A DIVISION OF UNIVERSAL MANUFACTURING CORP.
43900 GROSEBECK HWY.
CLINTON TOWNSHIP, MI 48036
PH: (586) 463-2560
FAX: (586) 463-2964

JOB NO.: COMPONENET:

11-TOP
1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

1/4" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

1¼" DIAMETER ALUMINUM BARS - BENT AS SHOWN - 1¼" RADIUS MIN.

1" x 0.065 WALL ALUMINUM TUBE

SWAGE 3" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 0.85" DIAM. 0.035" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ISOMETRIC
SCALE: N.T.S.

ELEVATION
SCALE: 1/2" = 1'-0"

PLAN VIEW
SCALE: 1/2" = 1'-0"
\(1\frac{1}{4}\)" DIA. ALUMINUM BARS - BENT AS SHOWN - 1\(\frac{1}{4}\)" R. MIN.

1"x0.065 WALL ALUMINUM TUBE

SWAGE 3" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE. 0.85" DIA, 0.035" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

\(1\frac{1}{4}" \times \frac{\sqrt{3}}{2} = 0.00\) WEBBING

6 EQUAL SPACES AT 18" EACH = 96"

\(1\frac{1}{2}" \) MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)
1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

3¼" DIA. ALUMINUM BARS - BENT AS SHOWN - 1¼" R. MIN.

1½" x 0.083 WALL ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1" DIA. 0.065" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"

TAPERED SECTION

UNIVERSAL TOWERS
A SUBSIDIARY OF
UNIVERSAL MANUFACTURING CORP.
43900 GROSEBECK HWY.
CLINTON TOWNSHIP, MI 48036
PH: (586) 463-2560
FAX: (586) 463-2964

COMPONENT: 18-TAPR
1/2" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

7/16" DIA. ALUMINUM BARS - BENT AS SHOWN - 1/2" R. MIN.

1/4" x 0.083 WALL ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1" DIA. 0.065" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ISOMETRIC
SCALE: N.T.S.

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"
TAPERED SECTION

1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

½" DIA. ALUMINUM BARS - BENT AS SHOWN - ½" R. MIN.

1⅛"x1.300" I.D. ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1.25" DIA. 0.083" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ISOMETRIC
SCALE: N.T.S.

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"

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COMPONENT:

JOB NO.: 22-TAPR
1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

½" DIA. ALUMINUM BARS - BENT AS SHOWN - 1½" R. MIN.

1¼" x 1.300" I.D. ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1.25" DIA. 0.083" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ISOMETRIC
SCALE: N.T.S.

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"
1½ MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

1½" MIN. ALUMINUM BARS - BENT AS SHOWN - 1½" R. MIN.

1¾" x 1.300" I.D. ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1.25" DIA. 0.083" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE.
HINGED CONNECTION ASSEMBLY - REFER TO ENLARGED DETAIL BELOW

\( \frac{5}{8} \times \frac{5}{8} \times \frac{3}{16} \) L ANCHORAGE

\( \frac{13}{4} \) T.S. 0.10" WALL - 60" LONG

OUTLINE OF CONCRETE FOOTING

PLAN VIEW
SCALE: 1/2"=1'-0"

ISOMETRIC
SCALE: N.T.S.

SEE ENLARGED DETAIL - THIS SHEET

6" HINGED SLEEVE

1\( \frac{1}{4} \)" x 1.300" I.D. STEEL TUBE

TWO (2) \( \frac{3}{8} \)" THRU- HOLES PERPENDICULAR TO EACH OTHER

TWO (2) \( \frac{1}{2} \)" GRADE 8 BOLTS

ELEVATION
SCALE: 1/2"=1'-0"

NOTE: FOUNDATIONS ARE DESIGNED FOR FIRM BEARING SOIL.