FREESTANDING ALUMINUM TOWER
MODEL #HD 11-80

TOTAL WEIGHT: 337 LBS.

WIND LOADING:
10.79 Sq. Ft.

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

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, NEGLIGENT, 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.

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

ISOMETRIC
SCALE: N.T.S.

UNIVERSAL TOWERS
A DIVISION OF
UNIVERSAL MANUFACTURING CORP.
48800 GROESBECK HWY.
CLINTON TOWNSHIP, MI 48036
PH: (586) 463-2560
FAX: (586) 463-2664

COMPONENT:
HD 11-80
2.1' TAPER

1.1/4" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

1/2" DIA. ALUMINUM BARS - BENT AS SHOWN - 1/2" 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

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

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

ISOMETRIC
SCALE: N.T.S.

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

¾" DIA. ALUMINUM BARS - BENT AS SHOWN - 1½" R. MIN.

1½"x0.083 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

TAPERED SECTION

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

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

**ELEVATION**
- Scale: 1/2" = 1'-0"

**ISOMETRIC**
- Scale: N.T.S.

**PLAN VIEW**
- Scale: 1/2" = 1'-0"

**NOTICE**
- 1/2" DIA. ALUMINUM BARS - BENT AS SHOWN - 1/2" R. MIN.
- 1 3/4" 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

**6 EQUAL SPACES AT 18" EACH = 9'-0"**

**WEARING**
- 1 3/4" CC
- 2 1/2" LOO

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COMPONENT: 22-TAPR
1/2" DIA. ALUMINUM BARS - BENT AS SHOWN - 1 1/2" R. MIN.

1 1/4" 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

1 1/4"CC

1 1/2" OL

WEBBING

6 EQUAL SPACES AT 18" EACH = 9' 0"

1/2" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

1-83/4"

10'-0"

5'-0"

1'-0"

1'-0"

ISOMETRIC
SCALE: N.T.S.

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

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

STRAIGHT SECTION

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JOB NO.: 

COMPONENT:
22-STRT
**ELEVATION**

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

**ISOMETRIC**

SCALE: N.T.S.

**PLAN VIEW**

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

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1 1/2" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

2-3/4" TAPER

1 1/6" DIA. ALUMINUM BARS - BENT AS SHOWN - 1/2" R. MIN.

1 3/8" 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

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**TAPERED SECTION**

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COMPONENT: 26-TAPR

JOB NO.:
**ISOMETRIC**

- 9/16" DIA. ALUMINUM BARS - BENT AS SHOWN - 1/2" R. MIN.
- 1 1/4" x 1.300" I.D. ALUMINUM TUBE
- SWAGE 3.28" 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

**ELEVATION**

- 1/2" = 1'-0"

**PLAN VIEW**

- 1/2" = 1'-0"

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STRAIGHT SECTION

**COMPONENT:**

26-STRT
9/16" DIA. ALUMINUM BARS - BENT AS SHOWN - 1/2" R. MIN.

1.708"x1.300" I.D. ALUMINUM TUBE

SWAGE 4 1/2" OF BOTTOM ENDS OF ALL THREE TUBES FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

1/2" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

6 EQUAL SPACES AT 18" EACH = 9'-0"

2'-4"

10'-0"

5'-0"

1'-0"

2'-4" C.C.

23" O.C.

WEBBING

ISOMETRIC

SCALE: N.T.S.

ELEVATION

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

PLAN VIEW

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

STRAIGHT SECTION

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JOB NO:

COMPONENT:

30-STRT