

ANALYSIS OF VALMONT INDUSTRIES LIGHTING STRUCTURE
IN ACCORDANCE WITH AASHTO-1994 RQMTS. (FINAL DEFLECTED POSITION)
BY MLS 03/31/2010 VERSION Fuse 1.9.0.363

SUBJECT: MASSACHUSETTS, 20' MAST ARM (WORST CASE LOAD)

FOLDER: MATR335 FILE: 20 GUST FACTOR: 1.30

ELEVATION OF FOUNDATION ABOVE SURROUNDING TERRAIN = 0.0 (FT)
STEPS INCLUDED ? NO

WIND VELOCITY = 90 MPH CRITERIA: AASHTO-1994
AASHTO ICE INCLUDED ? YES

DESCRIPTION OF SIGNAL AND SIGN LOADING *

POSITION OF SIGNAL OR SIGN	TYPE	HEIGHT ** OF CENTROID (FT)	DISTANCE TO CENT. FROM POLE (FT)	SIGNAL OR SIGN WEIGHT (LBS)	SIGNAL PROJECTED AREA (FT^2)	SIGN WIDTH (FT)	SIGN HEIGHT (FT)
ARM 1	SIGNAL	20.00	20.00	74	8.67		
ARM 1	SIGNAL	20.00	18.00	5	0.50		
ARM 1	SIGNAL	20.00	15.00	5	0.50		
ARM 1	SIGNAL	20.00	10.00	74	8.67		
POLE	SIGNAL	11.00	0.00	80	8.00		

* THE VALUES SHOWN IN THIS TABLE MUST NOT BE EXCEEDED
WITHOUT CONSULTING VALMONT. ANY SIZES OR OTHER
DIMENSIONS NOT PROVIDED BY THE SPECIFYING AGENCY
HAVE BEEN ESTIMATED BY VALMONT.

** THESE HEIGHTS ARE ABOVE BOTTOM OF BASE PLATE OR
TRANSFORMER BASE.