

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, 30' MAST ARM

FOLDER: MATR335 FILE: 30 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

POLE

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SHAPE	=	ROUND
LENGTH	=	21.00 FT
BOT O.D.	=	12.50 IN
TOP O.D.	=	9.56 IN
TAPER	=	0.1400 IN/FT
WEIGHT	=	527 LBS

POLE SECTIONS

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BOTTOM SECTION

THICKNESS	=	0.2092 IN
LENGTH	=	21.00 FT
YIELD STRENGTH	=	55 KSI

BASE PLATE (SQUARE)

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WIDTH	=	16.00 IN
THICKNESS	=	1.250 IN
YIELD STRENGTH	=	36 KSI

ANCHOR BOLTS

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QUANTITY	=	4
BOLT DIAMETER	=	1.50 IN
BOLT CIRCLE	=	16.00 IN
YIELD STRENGTH	=	55 KSI