

IN ACCORDANCE WITH AASHTO-2009 RQMTS. (FINAL DEFLECTED POSITION)
BY BNS 5/12/2014 VERSION Fuse 1.10.0.540 32-bit

SUBJECT: VERMONT, 34' & 31' MAST ARMS W/12' LUM ARM

FOLDER: VTTRAF FILE: 3431L12

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

RECURRENCE INTERVAL = 50 SPECIAL FATIGUE WIND SPEEDS
FATIGUE CATEGORY = 2

TRUCK GUST: YES GALLOPING : NO TRUCK GUST = 45 MPH
WIND VELOCITY = 90 MPH CRITERIA: AASHTO-2009
AASHTO ICE INCLUDED ? YES

DESIGN SUMMARY
POLE

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HEIGHT (FT)	POLE SHAFT WEIGHT (LBS)	GROUND LINE DIAMETER (IN)	TOP DIAMETER (IN)
27.00	775	13.00	9.22

SECTION CHARACTERISTICS SECTION 1
SHAPE ROUND
BASE DIAMETER (IN) 13.00
TOP DIAMETER (IN) 9.22
THICKNESS (IN) 0.23910
LENGTH (FT) 27.00
WEIGHT (LBS) 775
TAPER (IN/FT) 0.1400
YIELD STRENGTH (KSI) 55
MATERIAL S105 - 55
BASE WELD FATIGUE CATEGORY = E (FULL-PEN)

BASE PLATE (SQUARE)
MATERIAL = S70 - 36 ksi
WIDTH = 20.00 IN
THICKNESS = 1.500 IN
YIELD STRENGTH = 36 KSI

ANCHOR BOLTS

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MATERIAL = S100 - 55 ksi
BOLT DIAMETER = 1.50 IN
BOLT CIRCLE = 19.00 IN
QUANTITY = 4
YIELD STRENGTH = 55 KSI