

IN ACCORDANCE WITH AASHTO-2009 RQMTS. (FINAL DEFLECTED POSITION)

BY BNS

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VERSION Fuse 1.10.0.540 32-bit

SUBJECT: VERMONT, 42' MAST ARM & 16' LUM ARM

FOLDER: VTTRAF FILE: 4216

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

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

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