

MOUNTING HEIGHT	ARM LENGTH	MIN. WIDTH 'W'	BOLT DIA.	BOLT CIRCLE TOP	BOLT CIRCLE BOTTOM
LESS THAN 40'	LESS THAN 30'	13"	1"	10 1/2" TO 13 1/2"	13" TO 15"
	30'	15"	1 1/4"	13" TO 15 1/8"	15" TO 17 1/4"
40'	4' TO 20'	13"	1"	10 1/2" TO 13 1/2"	13" TO 15"
	25'	15"	1 1/4"	13" TO 15 1/8"	15" TO 17 1/4"
50'	4'	13"	1"	10 1/2" TO 13 1/2"	13" TO 15"
	6' TO 15'	15"	1 1/4"	13" TO 15 1/8"	15" TO 17 1/4"


BREAKAWAY TRANSFORMER BASE SHALL BE USED WHEN LIGHTING STRUCTURE IS NOT PROTECTED FROM TRAFFIC AND SHALL BE CERTIFIED BY FHWA AS MEETING THE CRASHWORTHINESS CRITERIA OF NCHRP REPORT 350

NOTES:

** TOP BOLT CIRCLE & WASHERS
 10 1/2" TO 13 1/2" : 2 1/2" O.D. X 3/8" THK.
 13" TO 15 1/8" : 2 3/4" O.D. X 1/2" THK.

BOTTOM BOLT CIRCLE & WASHERS
 13" TO 15" : 2 3/4" O.D. X 1/2" THK.
 15" TO 17 1/4" : 2 3/4" O.D. X 1/2" THK.

1. THE CONTACT AREA BETWEEN THE TRANSFORMER BASE AND CONCRETE FOUNDATION SHALL BE SHOP COATED WITH COAL TAR EPOXY BITUMASTIC 300 M, OR EQUAL, MEETING SSPC-PAINT 16 SPECIFICATIONS. THE THICKNESS OF THE COATING SHALL BE BETWEEN 6 AND 8 MILS. THE COATING SHALL BE COMPLETELY DRY BEFORE INSTALLATION. THE TOP OF THE FOUNDATION SHALL NOT BE PAINTED.
2. TORQUE BOTTOM NUTS TO 150 FT-LB.

SPECIFICATION 821	CATEGORY CODE ITEMS	 MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES BREAKAWAY TRANSFORMER BASE FOR LIGHTING STRUCTURE
APPROVED	<i>Cedric Wall</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY	
APPROVAL SHA REVISIONS	APPROVAL FEDERAL HIGHWAY ADMINISTRATION	
APPROVAL 7-1-94	APPROVAL 7-1-94	
REVISED 5-17-07	REVISED 5-2-07	
REVISED 4-16-19	REVISED 4-1-19	
REVISED	REVISED	STANDARD NO. MD 821.02