



ONE-WAY SIDE POLE MOUNTING

TWO-WAY SIDE POLE MOUNTING

NOTES:

1. THE TOP HUB PLATE SHALL BE ROTATED UPWARD WHEN THE SIGNAL HEAD IS MOUNTED ON A WOOD POLE.
2. A 1" DIA. HOLE SHALL BE DRILLED IN THE METAL POLE FOR WIRING AT BOTTOM PLATE.
3. THE UPPER ARM SHALL CONSIST OF A SERRATED ELL, 12" NIPPLE, GASKET AND CAST NIPPLE.
 - THE SERRATED ELL SHALL HAVE A SERRATED 72 TOOTH BOSS ON ONE END. THE OUTSIDE DIAMETER OF THE SERRATION SHALL NOT EXCEED 2 3/8". THE NON-SERRATED END OF THE ELL SHALL BE NOTCHED TO ACCEPT A SEPARATE SERRATED LOCKRING. THE ELL SHALL BE THREADED 1 1/2" NPS ON BOTH ENDS. THE ELL SHALL HAVE A MINIMUM 3/8" WIDTH BOSS THAT EXTENDS THE ENTIRE LENGTH OF BOTH SIDES, ON ONE SIDE OF THE BOSS AT EACH END OF THE ELL SHALL BE A 1/4" - 20 THREADED OPENING FOR A SETSCREW.
 - A DIE CAST NIPPLE SHALL BE ASSEMBLED INTO THE ELL. THE CAST NIPPLE SHALL BE 1 1/2" NPS WITH THREAD LENGTH OF 1 1/2". THE HEAD OF THE CAST NIPPLE SHALL BE HEX AND 2 1/2" ACROSS THE FLATS. AN INDENTION SHALL BE ON EACH CORNER TO ACCOMMODATE A SPANNER WRENCH FOR TIGHTENING.
 - A 1 1/2" X 12" EXTRUDED NIPPLE SHALL HAVE 1 1/2" NPS THREADS ON BOTH ENDS. THE NIPPLE SHALL HAVE A "BRUSHED" FINISH.
4. THE LOWER ARM SHALL CONSIST OF A SERRATED TEE, 12" NIPPLE AND CAST NIPPLE.
 - THE SERRATED TEE SHALL BE FABRICATED LIKE THE ELL EXCEPT THE TEE IS TO HAVE SERRATIONS ON TWO (2) THREADED OPENINGS 90° APART. THE NON-SERRATED END SHALL COME STANDARD WITH A PLASTIC KNOCKOUT PIN.
 - THE DIE CAST NIPPLE SHALL BE THE SAME AS ABOVE.
 - THE 1 1/2" X 12" NIPPLE SHALL BE THE SAME AS ABOVE.
5. FOR WOOD POLE MOUNTING:
 - ATTACHMENT STRAPS FOR WOOD POLE SHALL BE 3/4" WIDTH, TYPE 201, STAINLESS STEEL.
 - ATTACHMENT BOLTS FOR WOOD POLE SHALL BE STAINLESS STEEL 3/8" DIA. x 2 1/2" LENGTH.

SPECIFICATION 814	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 7-1-94
	REVISD 5-17-07
	REVISD

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
SIDE POLE MOUNTING FOR
VEHICULAR AND PEDESTRIAN SIGNAL HEADS
STANDARD NO. MD 814.03