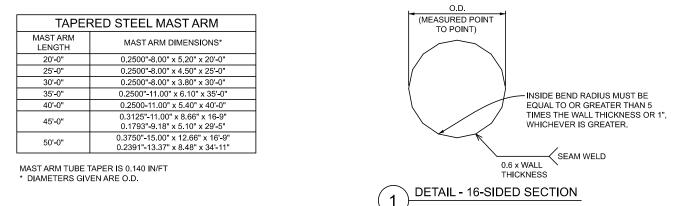


## TAPERED STEEL MAST ARM POLE

POLE DIMENSIONS*	LUMINAIRE ARM DIMENSIONS	
0.4375"-14.00" x 11.06" x 21'-0"	6'-0"	
0.4375"-14.00" x 9.80" x 30'-0"	8'-0"	
0.4375"-14.00" x 8.96" x 36'-0"	10'-0"	
0.4375"-14.00" x 8.40" x 40'-0"	24'-0"	

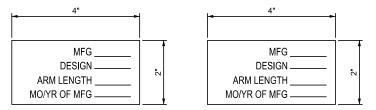
POLE TUBE TAPER IS 0.140 IN/FT

\* DIAMETERS GIVEN ARE O.D.



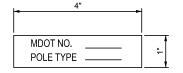
## NOTES:

- 1. THE DESIGN OF THIS STRUCTURE IS BASED ON CATEGORY III GALLOPING, NATURAL WIND GUSTS, AND TRUCK INDUCED FATIGUE LOADS.
- 2. WELD THE LONGITUDINAL ARM SEAM ON THE INBOARD AND OUTBOARD SECTIONS OF THE TELESCOPIC FIELD SPLICE WITH A COMPLETE JOINT PENETRATION (CJP) WELD WITH A LENGTH EQUAL TO THE TELESCOPIC FIELD SPLICE LENGTH PLUS 6 INCHES. THE LAP OF THE ARM SECTIONS CANNOT EXTEND BEYOND THE LONGITUDINAL ARM SEAM CJP WELD WHEN THE FIELD SPLICE IS ERECTED AND IN ITS FINAL POSITION. IN ADDITION, LONGITUDINAL SEAM WELDS MUST HAVE 60% MINIMUM PENETRATION OR FUSION AND MUST BE CJP FOR A MINIMUM OF 6 INCHES FROM TUBE TO PLATE CJP WELDS.
- 3. SEAM WELDS IN MAST ARM POLE MUST BE 90° ± FROM HAND HOLE AT BASE. SEAM WELDS IN MAST ARM MUST BE LOCATED ON BOTTOM OF MAST ARMS.
- 4. LUMINAIRE ARM IS 11 GAUGE ROUND STEEL WITH 0.140 INCH PER FOOT TAPER.
- 5. BACKING BAR FOR PIPE TO BASE PLATE (□) AND MAST ARM TO MAST ARM PLATE MUST BE MINIMUM 5/16 INCH X 2 INCH PLATE.
- 6. 1/2 INCH DIAMETER (Ø) ROUND STOCK C-HOOK ATTACHED TO ALL POLE SIZES. 1 INCH SCHEDULE (SCH.) 80 PIPE ATTACHED TO ALL POLE SIZES AND INBOARD AND OUTBOARD ARM.
- 7. S.S. DENOTES STAINLESS STEEL. GA. DENOTES GAUGE. O.D. DENOTES OUTSIDE DIAMETER. I.D. DENOTES INSIDE DIAMETER. H.S. DENOTES HIGH STRENGTH.
- 8. ROUND OR 16-SIDED SECTIONS ARE ALLOWED.
- 9. MULTI-PLY SECTIONS ARE NOT ALLOWED.

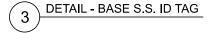


ATTACH TO POLE OR MAST ARM AT LOCATIONS SHOWN 4" FROM BASE OF TUBE BELOW HANDHOLE WITH (4) #8 x 3/8" S.S. TYPE U DRIVE SCREWS. (LETTERS STAMPED IN 3/6" CHARACTERS)

2 DETAIL - ARM/POLE S.S. ID TAG



WELD TAG TO EDGE OF BASE PLATE (LETTERS STAMPED IN 3/8" CHARACTERS)



Michigan Department of Transportation	STANDARD PLAN FOR MAST ARM POLE AND MAST ARM REQUIREMENTS			
DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	(SPECIAL DETAIL) FHWA APPROVAL	07/27/23 PLAN DATE	SIG-033-A	SHEET 2 OF 6
•				SECT

