



GENERAL NOTES

1. THE COMBINATION MAST ARM ASSEMBLY AND POLE SHALL BE CONSTRUCTED WITH ONE PIECE MAST ARMS AND POLE OR OTHER EQUIVALENT SECTIONAL DESIGN.
2. THE SIGNAL MAST ARM ASSEMBLY AND POLE SHALL BE DESIGNED TO SUPPORT UP TO THREE SIGNAL HEADS SPACED AT 12 FOOT CENTERS FROM THE FREE END OF THE MAST ARM. EACH SIGNAL HEAD WEIGHING 80 POUNDS WITH A PROJECTED WIND LOAD AREA OF 14.7 SQUARE FEET. IN ADDITION A SIGN PANEL 2'-6" BY 6'-0" WILL BE MOUNTED AS SHOWN ON THE PLANS OR IN STANDARD 2380. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR AN 80 MPH WIND VELOCITY.
3. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING DESIGN MATERIALS, THICKNESS OF SECTIONS, WELD SIZES, AND ANCHOR BOLTS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. THESE DRAWINGS SHALL BE AT LEAST 17 INCHES BY 22 INCHES IN SIZE AND OF ADEQUATE QUALITY FOR MICROFILMING.
4. THE TYPE OF SIGNAL HEAD MOUNTING BRACKET TO BE USED SHALL BE APPROVED BY THE ENGINEER.
5. THE SIGNAL HEAD INCLUDING BACKPLATE WHEN USED SHALL BE NOT LESS THAN 16'-0" OR MORE THAN 18'-0" ABOVE THE CROWN OF THE PAVEMENT.
6. THE MANUFACTURER WILL BE ALLOWED TO SLOT THE BASE PLATE IN WHICH OTHER BOLT CIRCLES MAY FIT, PROVIDING THAT SLOTS DO NOT OFF SET THE INTEGRITY OF THE POLE.
7. COMBINATION MAST ARM ASSEMBLIES AND POLES SHALL NOT BE INSTALLED WITHOUT THE LUMINAIRE.
8. THE ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 710.12 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
9. THE LUMINAIRE MAST ARM SHALL BE INCLUDED IN THE PRICE FOR EACH COMBINATION STEEL MAST ARM ASSEMBLY AND POLE. THE LUMINAIRE SHALL BE PAID FOR SEPARATELY.
10. THE FOUNDATION SHALL BE PAID FOR PER LINEAL FOOT OF CONCRETE FOUNDATION, TYPE E, 30 INCH DIAMETER WHICH PRICE SHALL INCLUDE A 3/2 INCH PVC DUCT FOR LIGHTING CABLES.

MAST ARM LENGTH	ANCHOR * BOLT SIZE
THRU 28'	1 1/2" x 60"
30' THRU 42'	1 1/2" x 60"
44' THRU 50'	1 3/4" x 90"

* NOTE: OR THE SIZE RECOMMENDED BY THE POLE MANUFACTURER

Illinois Department of Transportation
 DISTRICT # 1
 DETAILS OF COMBINATION STEEL
 MAST ARM ASSEMBLY AND POLE

REVISIONS	
NAME	DATE
DAZ	6-1-87