Design Loading for METAL POLE NO. 12, MAST ARM A


Design Loading for METAL POLE NO. 12, MAST ARM B



POLE RADIAL ORIENTATION


8 BOLT BASE PLATE DETAIL
See Note 6

bASE PLATE TEMPLATE \& ANCHOR BOLT For 8 Bolt Base Plate

METAL POLE No. 12


Design Reference Material
NOTES

 - The 2012 NTCDTOT Roadway Standard Drawings.

Design Repauirementsts
2. Design the traffic signal structure using, the loading conditions shown in the elevation
 3. Desion all signal supports using stress ratios that sot

 stiffened box connection shown as long as the connection meets all of the design requir
This requires stagen ing the conneotions. Use elevation data for each arm to determin
appropriate arm connection points.
6. Design base plate with 8 anchor bolt holes. Provide 2 inch $\times 60$ inch anchor bolts.



 8. The pole manufacturer will determine the total height (H2) of the pole using the greater of : Mast arma attachment height (H1) plus 2 feet, or
 (9919) 773-2800.

The contractor is responsible for veri ifying that the mast arm lengths shown will allow
proper positioning of the signal heads over the roadway.


## §SEPI

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NCDOT Wind Zone $4(90 \mathrm{mph})$


