Design Loading for METAL POLE NO．2，MAST ARM B



POLE RADIAL ORIENTATION


8 BOLT BASE PLATE DETAIL
See Note 5


BASE PLATE TEMPLATE \＆ANCHOR BOLT LOCK PLATE DETAIL

| MAST ARM LOADING SCHEDULE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { LOADING } \\ & \text { SYMBOL } \end{aligned}$ | descripton | AREA | ${ }_{\text {sIZE }}$ | weght |
| 原合 | SIGNAL HEAD $12^{\prime \prime}-5$ SECTION－WITH BACKPLATE RIGID MOUNTED | 16.3 s．f． |  | 103 lss |
| 8 | SIGNAL HEAD $12^{\prime \prime}-3$ SECTION－WITH BACKPLATE RIGID MOUNTED | 9.3 | $\begin{gathered} 25.55^{2 \mathrm{w}} \\ 5 . \mathrm{s}^{\mathrm{L}} \mathrm{~L} \end{gathered}$ | 60 bs |
| $\square$ | $\begin{gathered} \text { SIGN } \\ \text { RIGID MOUNTED } \end{gathered}$ | 7.5 S．F． |  | 14 LBS |
| Eermes | STREET NAME SIGN RIGID MOUNTED | 12.0 S．F． |  | 27 bs |

NOTES
 －The 2012 ncoot＂standard Specifications for Roads and Structures＂．The latest addenda to －The 2012 ncoot hoadway standard Drawing
 https：／1／Iornnect
Design Reaui rements
2．Design the traffic signal structure using the 1oading conditions shown in the elevation
 ．Desion alt sial
 Sesined base plane conection shown as long as the connection meets all of the design 8 anchor bolt holes．$r$ ．Provide 2 inch $\times 60$ inch anchor bolts
5．
The







 the forlowing
：Mast arm attachment height（H1）plus 2 feet，or


（919）773－2800．
－The contractor is responsible for veri fying that the mast arm length shown will allow
proper positioning of the signal heads over the roadway．
 The contractor is sersponsible for providing a protective black coating on all metal poles
（please see project special provisions）．

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


> | LOADING DIAGAAM AND |
| :--- |
| TYPICAI DETAI ANOR |

METAL POLE WITH DOUBLE MAST ARM

| METAL POLE WITH DOUBLE MAST ARM |
| :--- |
| Division 14 Transylvania County Brevar |



