

MAST ARM POLE FOUNDATION IN SOIL TYPE A FOUNDATION


The Type A Foundation is the normally required foundation construction. Where rock is encountered, the Engineer may approve the use of the Type B or C Foundation. Prior to installing a foundation in rock, obtain a subsurface investigation certified by a geotechnical engineer licensed in the State of lowa.
(1) Shape top 11 inches with forms. See Detail ' $A$ '.
(2) Install rodent guard or non-shrink grout with weep hole.
(3) Furnish nut, nut and plate, or nut and anchor bolt assembly ring plate on embedded end.

| Max. Mast <br> Arm Length | Foundation |  | "V" Bars |  |  | Tie Bars |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (W) | (L) | Count | Size | Length | Count | Upper Spacing |  | Lower Spacing |  |
|  |  |  |  |  |  |  | \# Spaces | (S ${ }_{1}$ | \# Spaces | $\mathrm{S}_{2}$ |
| 35'-0" | 3'-0" | 12-0" | 12 | \#8 | 11'-6" | 17 | 9 | 12" | N/A | N/A |
| 45'-0" | $3^{\prime}-0 "$ | 14'-0" | 12 | \#8 | 13'-6" | 19 | 11 | 12" | N/A | N/A |
| 55'-0" | 3'-0" | 16'-0" | 12 | \#8 | 15'-6" | 25 | 12 | 8" | 5 | 12" |
| 60'-0" | 3'-0" | 18'-0" | 13 | \#8 | 17'-6" | 28 | 15 | 8" | 5 | 12" |
| 70'-0" | $3^{\prime}-6$ " | 18'-0" | 12 | \#10 | 17'-6" | 28 | 15 | 8" | 5 | 12" |
| 80'-0" | 3'-6" | 21-0" | 14 | \#10 | 20'-6" | 40 | 22 | $6 "$ | 10 | 8" |
| 90'-0" | 4'-0" | 22'-0" | 16 | \#10 | 21'-6" | 42 | 24 | $6 "$ | 10 | 8" |
| 100'-0" | 4'-0" | 24'-0" | 18 | \#10 | 23'-6" | 47 | 32 | $6 "$ | 7 | 8" |



TRAFFIC SIGNAL POLE FOUNDATION


MAST ARM POLE FOUNDATION IN ROCK
TYPE B FOUNDATION
\#6 Ties
Stagger hooks to engage
different "V" bars each row


PLAN VIEW

## BENT BAR DETAIL



Note: All dimension are out to out.


| Modified conduit de |
| :---: |
|  |  |

TRAFFIC SIGNAL POLE FOUNDATION

(2) Install rodent guard or non-shrink grout with weep hole.
(3) Furnish nut, nut and plate, or nut and anchor bolt assembly ring plate on embedded end.


PEDESTAL POLE FOUNDATION IN SOIL OR ROCK


| 通 SUDAS | PIOWADOT |  |
| :---: | :---: | :---: |
| FIGURE 8010.102 | STANDARD ROAD PLAN | TS-102 |
|  |  | SHEET 4 of 4 |
|  |  |  |
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| TRAFFIC SIGNAL POLE FOUNDATION |  |  |

