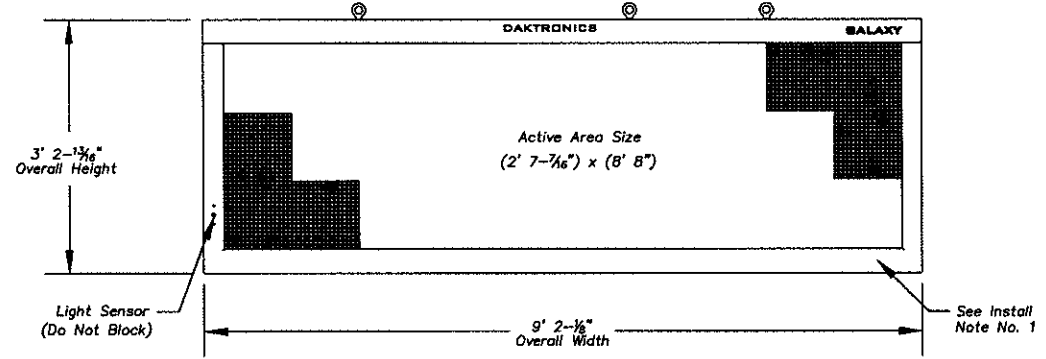
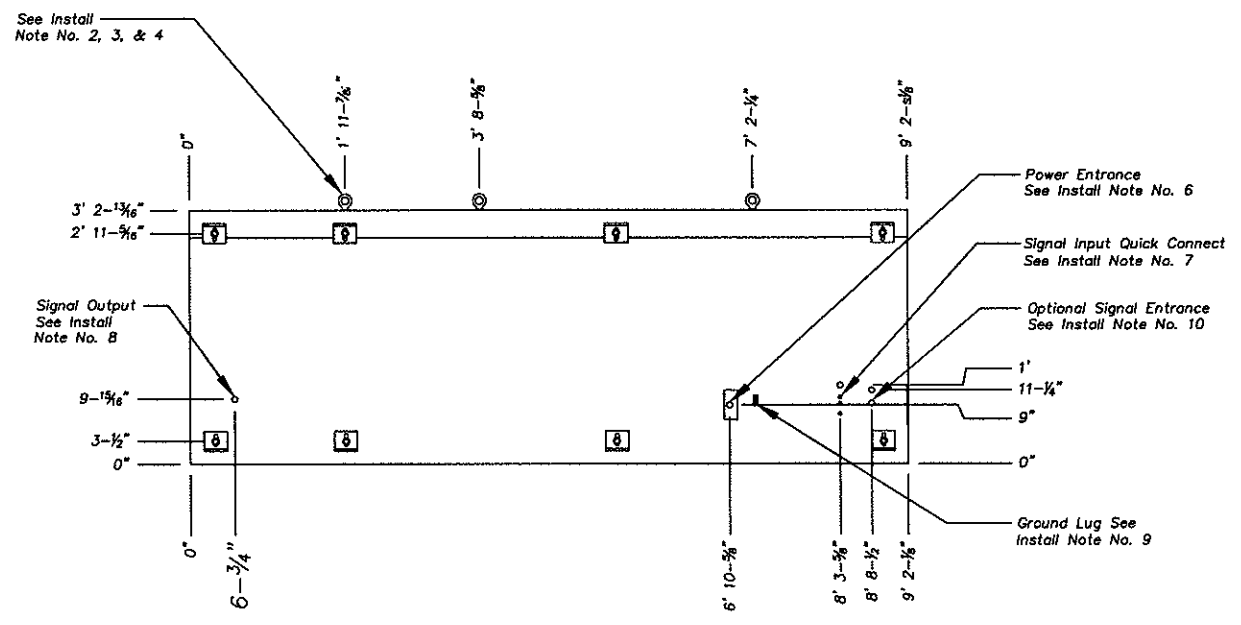


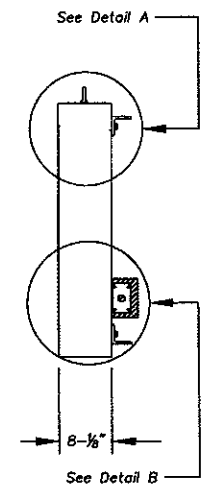
Top View



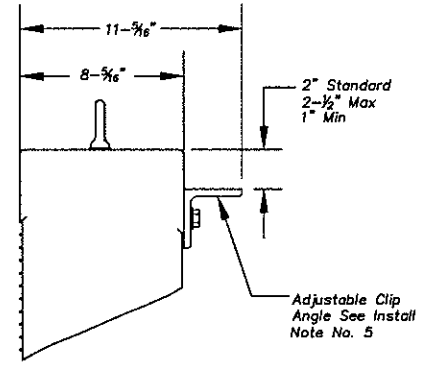
Front View



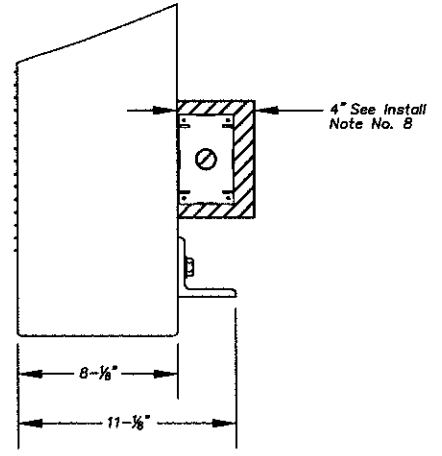
Rear View



Right View



Detail A



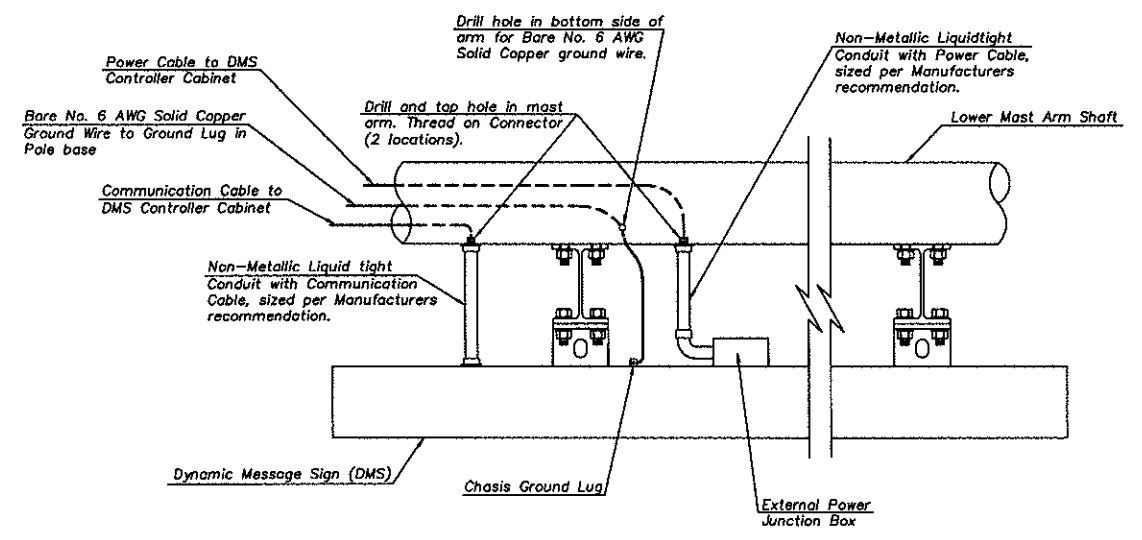
Detail B

| | | |
|---|--------------|------------------------------------|
| 2 | LED Color | RGB |
| 3 | Active Area | 2' 7-7/16" X 8' 8" |
| 4 | Overall Size | 3' 2-13/16" X 9' 2-1/8" |
| 5 | Cabinet | Aluminum, Painted Semi-Gloss Black |
| 6 | Ventilation | Intake & Exhaust at Bottom-Front |
| 7 | Access | Service from Front Only |
| 8 | Weight | 250 lbs (Approx) |

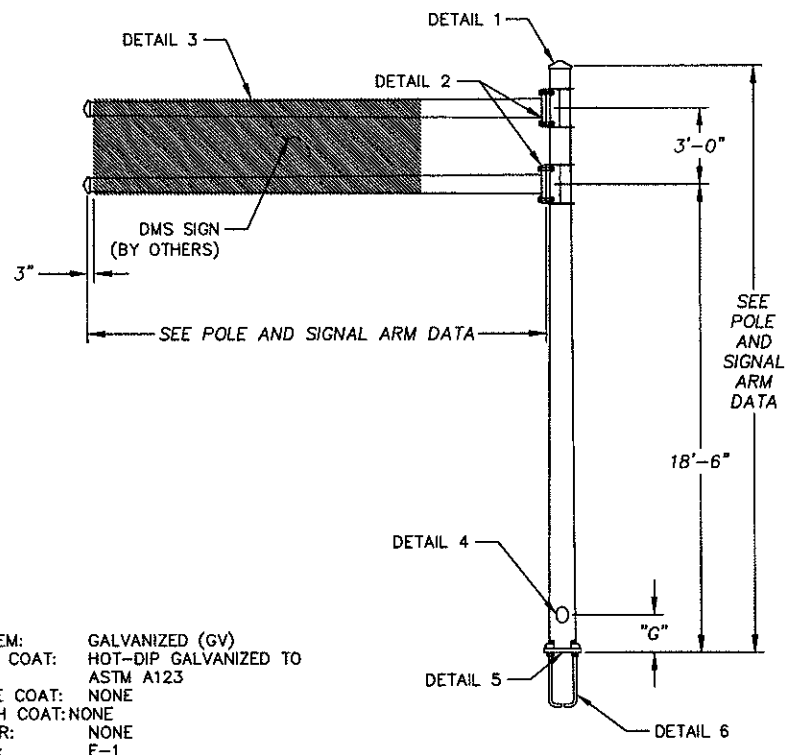
| | | |
|-------------------|--------------------------|------------|
| Structural Rating | | |
| 1 | Design Wind Pressure "p" | P<=110 PSF |
| 2 | Standard/Code | IBC 2006 |

| Power Ratings Per Single Face | | | | | | | |
|-------------------------------|-------|---------------------|-------|---------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| # | Color | Effective Date | WATTS | Domestic | | International | |
| | | | | 120VAC, 60Hz 2 Wire + GND | 120/240VAC, 60Hz, 3 Wire + GND | 240VAC, 1PH 50Hz 2 Wire + GND | 240VAC, 1PH 50Hz 2 Wire + GND |
| | | | | Line 1 (AMPS) | Line 2 (AMPS) | Line 1 (AMPS) | Line 2 (AMPS) |
| 1 | RGB | After 4/26/12 | 1200 | N/A | 4.77 | 5.23 | 5.00 |
| 2 | RGB | Prior to 4/25/12 | 1541 | N/A | 6.26 | 6.59 | 6.42 |

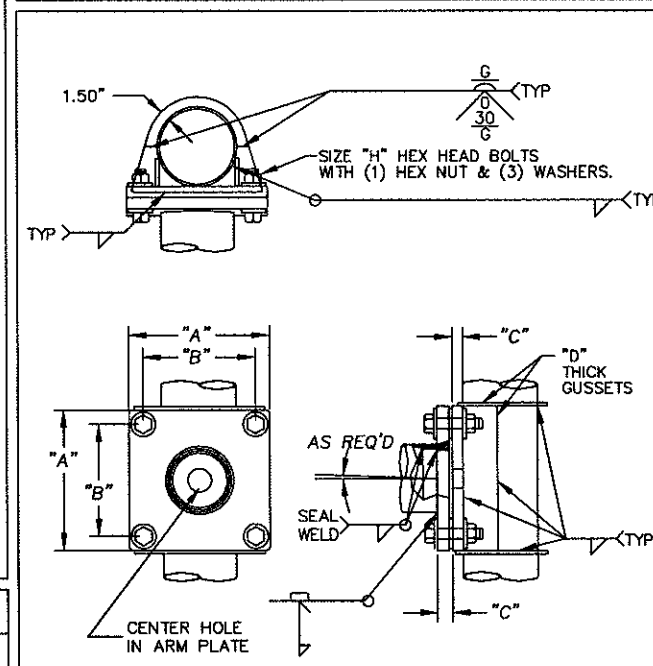
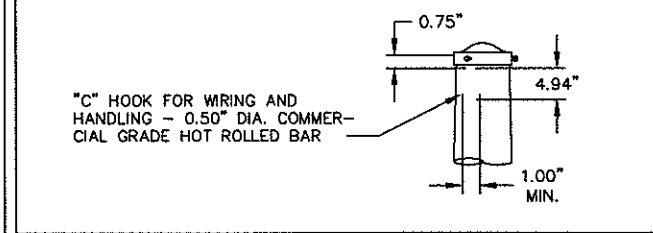
- Install Notes**
1. Display is front ventilated so no portion of the front face can be covered. Air intakes are filtered. Filters are located in drawers on face.
 2. In order to maintain the structural integrity of the display cabinet, use spreader beam and maintain a 90° angle between the cabinet and the lifting method. All eyebolts must be used for lifting the cabinet.
 3. 1/2" eyebolts to assist with display installation. Eyebolts may be removed after installation.
 4. Eyebolts may not be used for permanent installation.
 5. L3 x 3 x 3/8" x 3 Wide" ASTM A36 steel angle for mounting attached to the display with 1/2" bolt and nut insert. Clip angle can be adjusted vertically as needed during installation.
 6. External junction box is provided for power termination. See power ratings above.
 7. Signal input at quick connect. Primary/Single face display shown. See clearance dimension on detail View B.
 8. Signal output quick connect for mirror face.
 9. Ground lug for ground lug connection. Display needs to be grounded.
 10. Two 1/2" conduit knockout locations for optional signal entrance.



Top View



SYSTEM: GALVANIZED (GV)
 BASE COAT: HOT-DIP GALVANIZED TO ASTM A123
 PRIME COAT: NONE
 FINISH COAT: NONE
 COLOR: NONE
 SPEC: F-1

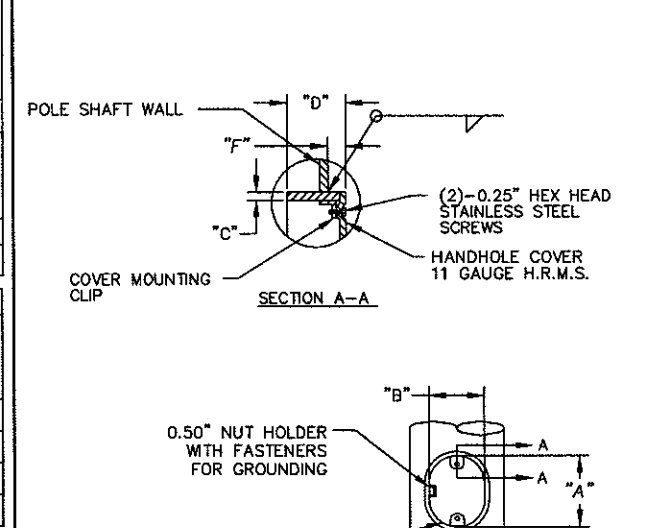
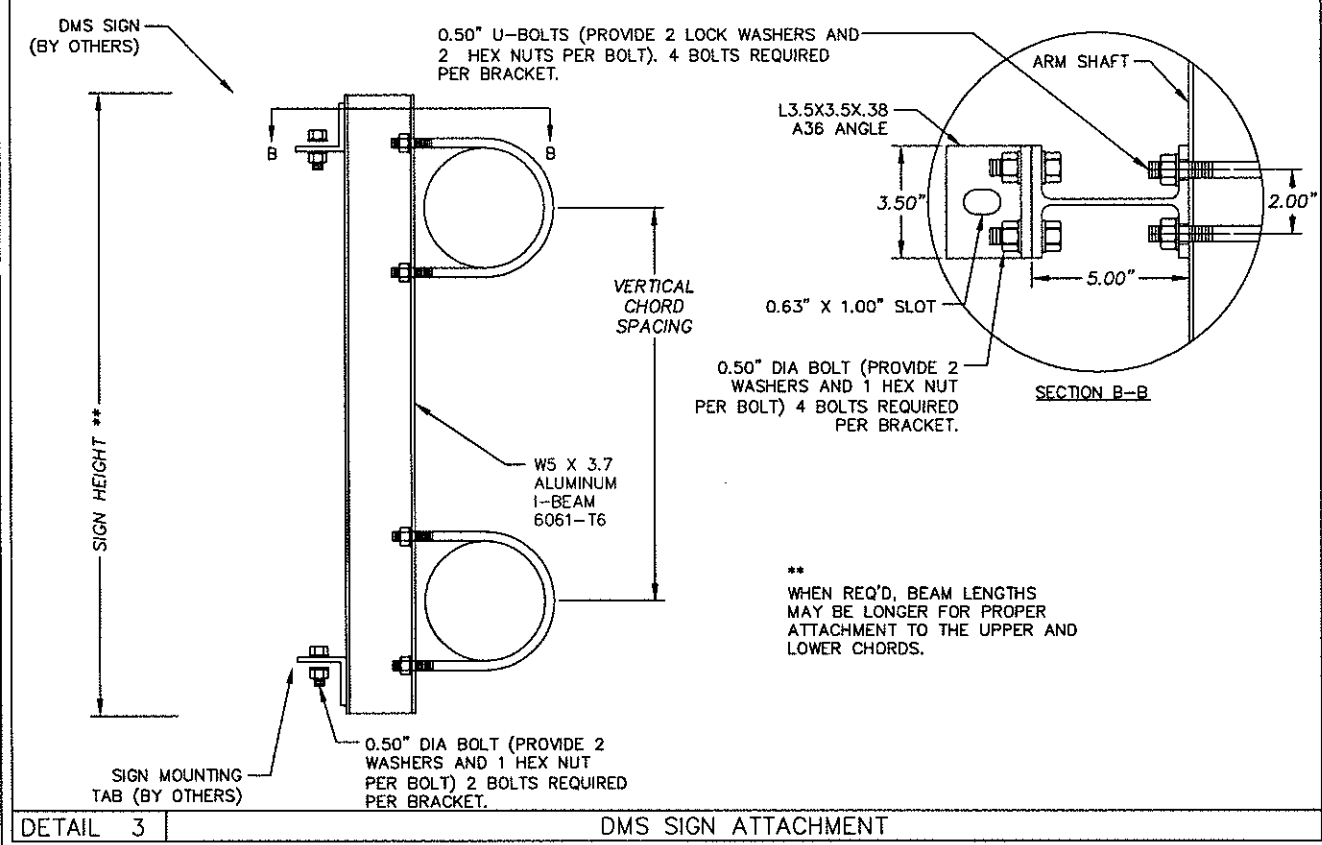


SIGNAL ARM ATTACHMENT DATA

| POLE BASE DIA. (IN) | "A" (IN) | "B" (IN) | "C" (IN) | "D" (IN) | CENTER HOLE DIA. (IN) | "H" (IN) |
|---------------------|----------|----------|----------|----------|-----------------------|-------------|
| 12.50 | 17.75 | 14.50 | 2.00 | 0.375 | 7.00 | 1.25 X 6.00 |

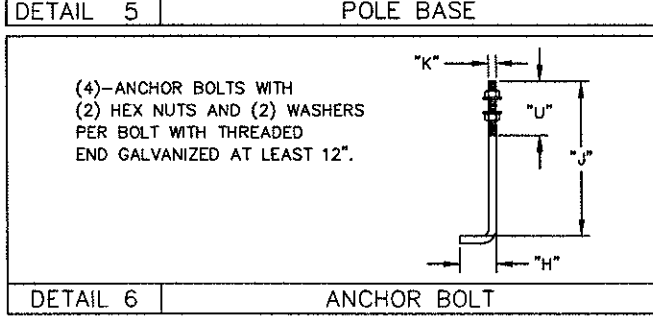
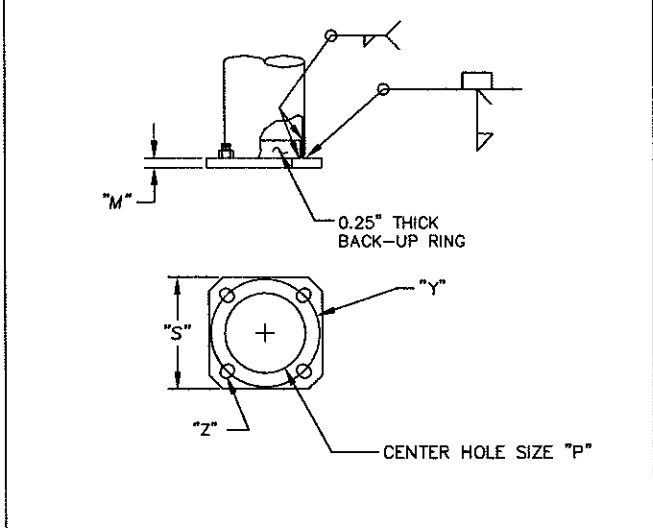
DETAIL 2 SIGNAL ARM ATTACHMENT

| POLE SERIES | POLE TUBE | | | | POLE BASE | | | | ANCHOR BOLT | | | | SIGNAL ARM TUBE | | | | |
|-------------|----------------|---------------|-------------|---------------------|-----------------|----------------------|---------------|---------------|-----------------|---------------|-----------------|---------------|------------------------|---------------------|--------------------|---------------------|-----------|
| | BASE DIA. (IN) | TOP DIA. (IN) | LENGTH (FT) | GAUGE OR THICK (IN) | SQUARE "S" (IN) | BOLT CIRCLE "Y" (IN) | THK. "M" (IN) | "Z" HOLE (IN) | CENTER HOLE "P" | DIA. "K" (IN) | LENGTH "J" (IN) | HOOK "H" (IN) | THREAD LENGTH "U" (IN) | FIXED END DIA. (IN) | FREE END DIA. (IN) | GAUGE OR THICK (IN) | SPAN (FT) |
| OP | 12.50 | 9.28 | 23.00 | 5 | 17.50 | 16.50 | 2.00 | 1.75 | 11.00 | 1.50 | 54.00 | 6.00 | 8.00 | 9.00 | 6.48 | 7 | 18.00 |
| | | | | | | | | | | | | | | 9.00 | 6.48 | 7 | 18.00 |



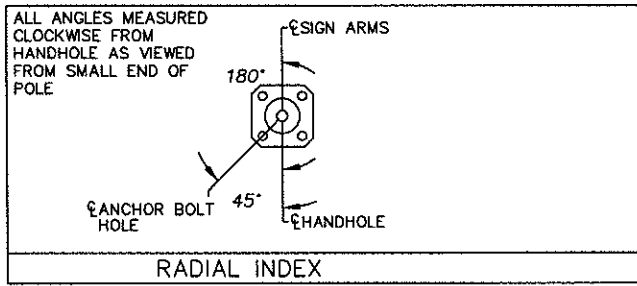
DETAIL 4 HANDHOLE

| BASE DIA. | "A" I.D. (IN) | "B" I.D. (IN) | "C" THK (IN) | "D" DEPTH (IN) | "E" RADIUS (IN) | "F" PROJ (IN) | "G" MTG. HEIGHT (FT) |
|-----------|---------------|---------------|--------------|----------------|-----------------|---------------|----------------------|
| 12.50" | 4.50 | 6.56 | 0.50 | 2.50 | 2.25 | 0.50 | 1.50 |

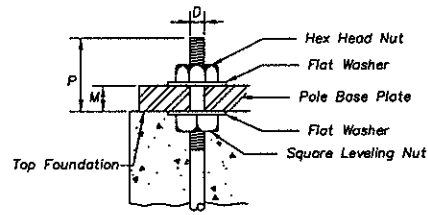


ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.

VIBRATION DISCLAIMER

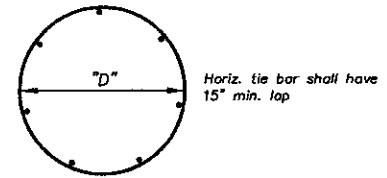


March 6, 2018 - 2:10 PM
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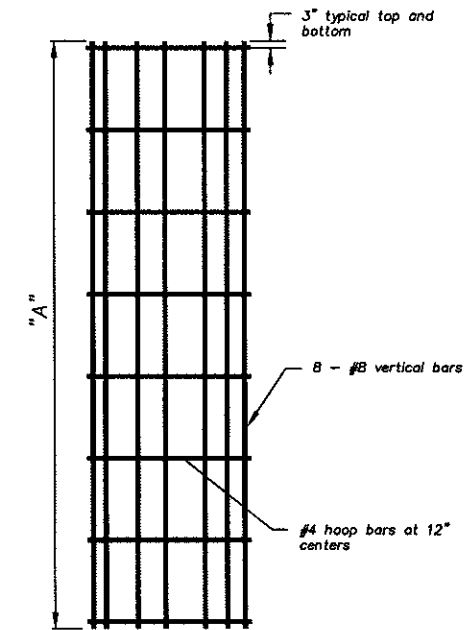
Anchor Bolt Detail

| Bolt Diameter | Plate Thickness "M" | Bolt Projection "P" |
|---------------|---------------------|---------------------|
| 1.50" | 2.00" | 6 1/4" ± 1/8" |

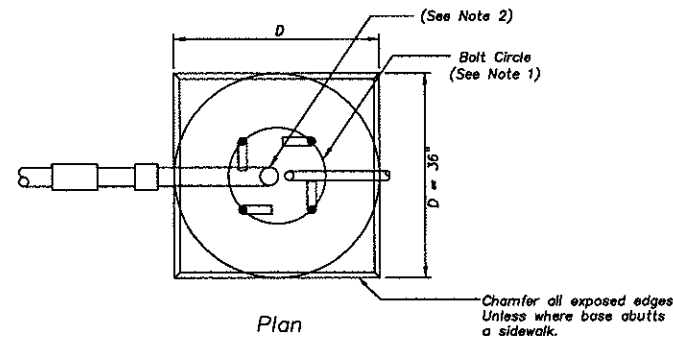


| Pole Fnd. Dia. | Pole Fnd. Depth | Rebar Cir. "D" | Spacing |
|----------------|-----------------|----------------|----------|
| 36" | 12' | 30" | 12" MAX. |

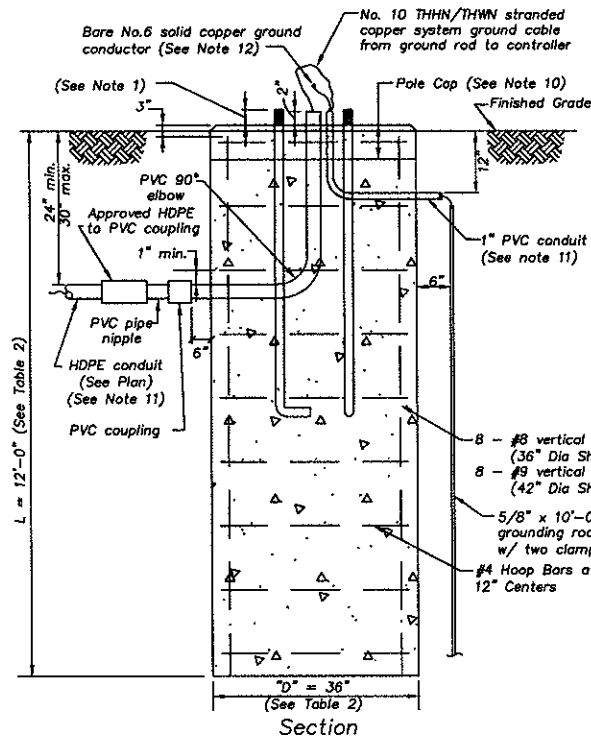
| Pole Fnd. Depth | Length "A" |
|-----------------|------------|
| 12'-0" | 11'-9" |



Rebar Cage Detail

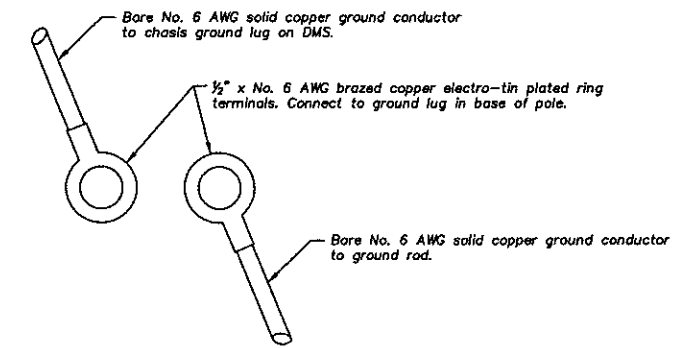


Plan



Traffic Signal Pole Foundation

| Length of Mast Arm | "D" Diameter | "L" Length |
|--------------------|--------------|------------|
| 18' | 36" | 12' |



DMS Grounding Detail

Pole Foundation Notes:

- Final pole, anchor bolt size, anchor bolt projection, and bolt circle shall be as per manufacturer's recommended practices (See Table 1).
- All conduits and anchor bolts for all the new pole bases shall be rigidly installed before concrete is placed. Anchor bolts shall be spaced by means of a factory certified template or drawing, the center of which shall coincide with the center of the base.
- All concrete used in this work shall meet the requirements of the Overland Park Municipal Code and shall be KCM/B4K concrete ($f_c = 4,000$ psi). Poles shall not be erected until concrete has reached 3,400 psi.
- Reinforcing steel shall have 60 ksi yield strength: Maintain 1 1/2" Minimum clearance from reinforcing steel to edge of hole or form.
- The drilled shaft foundation details presented herein are intended for installation into soil foundations. A special foundation investigation and design shall be conducted for residual soils with an "N" value of 4 or less or characterized as very soft to soft clay.
- These standard designs assume a minimum compactive effort of 90% of Standard or Modified Proctor for cohesive fill material.
- In the event excavation for the drilled shaft encounters sound limestone short of the required length shown in the table of dimensions, the shaft may be shortened to a minimum length of 8 feet with a minimum inclusive rock socket of 3 feet.
- Shale foundation material will be considered as a stiff clay. Drilled shafts in shale must satisfy the dimensions on Table 2.
- All concrete pole bases shall be consolidated by an internal type vibrator.
- Final 6" of concrete foundation (pole cap) shall be formed square. The cap shall be formed and poured after the mast arm is erected and the pole plumb. Final top elevation shall match finished grade.
- PVC conduit elbows in concrete foundations shall be connected to HDPE conduit with PVC pipe nipple and approved PVC to HDPE couplings. All PVC pipe nipples, elbows, and couplings shall be considered subsidiary to the traffic signal pole base.
- Bare No. 6 AWG solid copper ground conductor shall be connected from internal pole grounding nut to clamp on ground rod. Resistance to ground shall be 10 ohms or less, or additional ground rods shall be installed in an array. The contractor shall test ground resistance in the presence of the inspector.
- All reinforcing steel shall be ASTM A615 GR60.
- All concrete surfaces should be brushed and sealed with curing compound.

| NO. | DATE | BY |
|-----|----------|-----|
| 1 | 01/07/18 | VAG |
| 2 | 10/17/18 | VAG |
| 3 | | |