CCTV POLE GROUNDING

Concrete
Driven Into Undisturbed Earth
Copper-Clad Steel Ground Rods
" Diameter By 20' Long
Driven Into Undisturbed Earth

Steel Pole
Driven Into Undisturbed Earth
Copper-Clad Steel Ground Rods
" Diameter By 20' Long
Exothermic Weld
Ground Rod A See Inset "A"
For Fiber Optic Cable
2" PVC Conduit
As Required Per Plans
CCTV Camera
Dome Type
Requirements
Or Externally According To Project
#2 Wire May Be Routed Internally
Ensures Conduits Are Sealed To Prevent Water Intrusion.
Any External Ground Wire From Mechanical Damage.
Exothermic Weld
Terminal And Ground Rod With.
To Concrete Pole @ 3' Intervals. Bond To Air
#2 AWG Tin-Plated Bare Solid Copper Wire. Clamp
To Air Terminal And Ground Rod With Exothermic Weld.

Wire Screen See Spec. 649-6
Ground Lug
For Fiber Optic Cable
2" PVC Conduit
As Required Per Plans
CCTV Camera
Dome Type
HDPE Alloy 110 Copper
Air Terminal (Class II)
Bond #2 AWG Tin-Plated Bare Solid Copper Wire To Camera
Support Base With An Aluminum-to-Copper #2 - #4 AWG Lug.
Attach To Camera Base Using A Stainless Steel Self-Tapping Screw.
Remove Paint Or Protective Coating Where Attaching Lug.
Bond #2 Wire To #2 Ground Wire.

40' Min.
FINISHED GRADE

Concrete

12" Min.
30" Max.

1/2" PVC Conduit Sleeve Shall Be Provided To Protect
2" PVC Conduit For Power
12" Min.
30" Max.

Ground Rod B

Ground Rod A

Ground Rod B

Steel Pole

Exothermic Weld

Ground Rod A & Sec Inst "A"
Exothermic Weld

To Ground Rod C

To Ground Rod D

CCTV Cabinet
As Required Per Plans

" PVC Conduit For Power

" Diameter By 20' Long
Copper-Clad Steel Ground Rods
Driven Into Undisturbed Earth

40' Min.
GENERAL NOTES:

1. Distance must be in accordance with project design documents and greater than or equal to minimum clear zone requirements.
2. Exothermically weld all connections to ground rods.
3. Install marker tape directly above all grounding electrodes and conductors at a depth of 6".
4. All data, coaxial and power cables to the camera shall be completely concealed.
5. All air terminals must meet UL-96A.
6. Ground rod A is required. Ground rods B, C and D will be required as necessary to meet the ground resistance requirements in the contract documents.
7. Place ground system within right of way.
8. Route all camera cables inside arm of mounting bracket.
9. Main ground rod to be placed immediately adjacent to pole.

GROUND ROD PLACEMENT DETAIL
(Typical Each Pole)

120deg
"Sphere Of Influence"

#2 AWG Tin-Plated Bare Solid Copper
Wire Continuous To Air Terminal

#2 AWG Min. Tin-Plated Bare
Solid Copper Wire To Ground
Rods B, C and D As Required

#6 AWG Tin-Plated Bare Solid Copper
Wire To Electrical Service Ground

GENERAL NOTES:

1. Distance must be in accordance with project design documents and greater than or equal to minimum clear zone requirements.
2. Exothermically weld all connections to ground rods.
3. Install marker tape directly above all grounding electrodes and conductors at a depth of 6".
4. All data, coaxial and power cables to the camera shall be completely concealed.
5. All air terminals must meet UL-96A.
6. Ground rod A is required. Ground rods B, C and D will be required as necessary to meet the ground resistance requirements in the contract documents.
7. Place ground system within right of way.
8. Route all camera cables inside arm of mounting bracket.
9. Main ground rod to be placed immediately adjacent to pole.

GROUND ROD PLACEMENT DETAIL
(Typical Each Pole)

#2 AWG Tin-Plated Bare Solid Copper
Wire Continuous To Air Terminal

#2 AWG Min. Tin-Plated Bare
Solid Copper Wire To Ground
Rods B, C and D As Required

#6 AWG Tin-Plated Bare Solid Copper
Wire To Electrical Service Ground