CONVENTIONAL LIGHTING

Pole
Luminaire
Luminaire Cable
Breakaway Fuseholders
Strain Relief Fitting (See Note 2)
PVC Conduit
Pull box
Strain Relief Fitting (See Note 2)
Equipment Ground Conductor
Pole Ground Conductor
Ground rod
Equipment Ground Conductor

WIRING DIAGRAM

PVC Conduit

Breakaway Fuseholders
with solid copper slugs:
Slugs to be same size as 10 Amp fuse.

Strain Relief Fitting (See Note 2)

#6 Solid Copper
Ground Wire (Bare)

Grounding Lug

#6 TW Green Bonding Ground

PVC conduit with Type TC Cable

1" PVC conduit with #6 Solid
Copper Ground Wire (Bare)

U.L. approved Ground Rod 8' diameter 20' long copper clad with approved ground connection (At all pull boxes)

Luminaire Cable

Breakaway Fuseholders with solid copper slugs:
Slugs to be same size as 10 Amp fuse.

Surge Protective Device (SPD)

Breakaway Fuseholder on 480V side with a 10 Amp slow blow fuse for line to line service both lines to be fused.

Breakaway Fuseholders on Neutral side with solid copper slug (Line To Neutral Service). Slugs to be same size as 10 Amp fuse.

Equipment Ground Conductor

Circuit conductors and conduit size as shown in plans. (Typical)

#6 TW Green Bonding Ground

#6 Solid Copper Wire (Bare)

Edge of traveled
pavement or
face of curb.

12' bed of Pearock or crushed stone for drainage.

Metal Pole Detail

Metal Pole Wiring Detail

WIRING DETAILS

NOTES:

1. Barrier wall or bridge mounted poles: The wiring shall be in accordance with Specification 992.

2. Provide cable length to remove fuseholders from transformer base, pole base or pullbox for maintenance. Remove slack from the luminaire cable to provide tension on the fuseholders if the pole breaks away. Pull excess cable into pull box tighten strain relief fittings or cable clamps at both ends of conduit to prevent cable from slipping.
NOTES:
1. Use compacted select material in accordance with Index 120-001.
2. Concrete shall be Class NS with a minimum strength at 28 days of f'c=2.5 ksi.
3. Outside edge of slab shall be cast against formwork.
4. The pull box shown is 13" x 24"; others approved under Specifications 635 may be used.
5. Slabs to be placed around all Poles and Pull Boxes in rural locations. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans.
6. Concrete for slabs around pull boxes shall be included in the price of pull box.
NOTES:
1. Use compacted select material in accordance with Index 120-001.
2. Concrete shall be Class NS with a minimum strength at 28 days of f'c=2.5 ksi.
3. Outside edge of slab shall be cast against formwork.
4. The pull box shown is 1' x 24"; others approved under Specification 635 may be used.
5. Slabs to be placed around all Poles and Pull Boxes. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans.
6. Concrete for slabs around poles and pull boxes shall be included in the price of pole or pull box.
7. The expansion joint shall consist of ½" of closed-cell polyethylene foam expansion material. The top ½" of expansion material shall be removed after pouring the slab and sealed with an APL approved Type A sealant meeting the requirements of Specification 932.

**SLAB DETAILS**

FOR POLE AND PULL BOX LOCATIONS

Concrete shall be Class NS with a minimum strength at 28 days of f'c=2.5 ksi. Use compacted select material in accordance with Index 120-001. The pull box shown is 1' x 24"; others approved under Specification 635 may be used. Slabs to be placed around all Poles and Pull Boxes. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans. Concrete for slabs around poles and pull boxes shall be included in the price of pole or pull box. The expansion joint shall consist of ½" of closed-cell polyethylene foam expansion material. The top ½" of expansion material shall be removed after pouring the slab and sealed with an APL approved Type A sealant meeting the requirements of Specification 932.