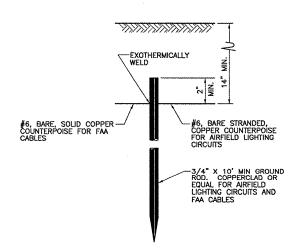


- 1. INSTALL 3/4" Ø X 10' LONG COPPER CLAD GROUND RODS ALONG COUNTERPOISE SYSTEM AT 300' INTERVALS. CONNECTIONS OF GROUND RODS TO COUNTERPOISE CABLE SHALL BE EXCTHERMIC TYPE (COPPERMELD OR EQUAL)
- 2. DO NOT CONNECT COUNTERPOISE WIRING TO EDGE LIGHT BASES.
- 3, THE RESISTANCE TO GROUND OF THE COUNTERPOISE GROUNDING SYSTEM SHALL NOT EXCEED 25 OHMS.
- 4. COST OF THE GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.

COUNTERPOISE (ALONG PAVEMENT) INSTALLATION DETAIL

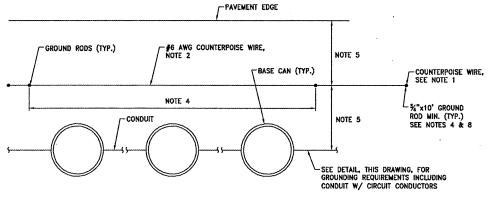


NOTE

- 1. THE RESISTANCE TO GROUND OF ANY GROUNDING SYSTEM SHALL NOT EXCEED 10 OHMS.
- 2. COST OF GROUND RODS AND CONNECTIONS TO COUNTERPOISE IS INCIDENTAL TO ASSOCIATED ITEMS OF WORK REQUIRING GROUNDING AND NO SEPARATE PAYMENT WILL BE MADE.
- 3. MAXIMUM SPACING OF GROUND RODS FOR EDGE LIGHTING SYSTEMS SHALL NOT EXCEED 200 FEET.
- 4. ALL GROUND RODS ARE INSTALLED VERTICALLY.
- 5. EACH ROD TO BE TESTED INDMDUALLY TO ENSURE RESISTANCE TO GROUND OF 25 OHMS OR LESS. ADD ADDITIONAL SECTIONS UNTIL THIS REQUIREMENT IS MET.

GROUND ROD DETAIL

NTS



NOTES:

- 1. CONNECTIONS TO GROUND RODS SHALL BE MADE USING EXOTHERMIC WELDS.
- 2. COUNTERPOISE WIRE SHALL BE #6 AWG, BARE SOLID COPPER.
- 3. NOT USED
- 4. GROUND RODS FOR AUTHORITY LIGHTING CABLES SHALL BE PROVIDED AT A MAXIMUM SPACING OF 100 FEET. ADDITIONALLY, THE RESISTANCE TO GROUND OF THE COUNTERPOISE SYSTEM SHALL NOT EXCEED 10 OHMS.
- 5. SEE COUNTERPOISE WIRE INSTALLATION DETAIL FOR COUNTERPOISE WIRE LOCATION, GROUND RODS SHALL BE COPPERCIAD OR EQUAL.
- 6. WHERE DUCTS CROSS, THE COUNTERPOISE SHALL BE TERMINATED AT GROUND RODS ON EACH SIDE OF A DUCT CROSSING.
- 7. ALL COUNTERPOISE CONNECTIONS SHALL BE UL LISTED FOR DIRECT EARTH BURIAL AND/OR INSTALLATION IN CONCRETE AS APPLICABLE.

 8. PROVIDE GROUND ROD WHERE NEW LIGHTING DUCTS CONNECT TO EXISTING DUCTS, HANDHOLES, MANHOLES, AND/OR LIGHT CANS.
- 9. COST OF GROUND RODS AND CONNECTIONS TO GROUNDING CONDUCTORS IS INCIDENTAL TO ASSOCIATED ITEMS OF WORK REQUIRING GROUNDING AND NO SEPARATE PAYMENT WILL BE MADE.

PLAN - COUNTERPOISE WIRE FOR PROPOSED EDGE LIGHTS

NTS

PE087



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PEORIA, ILLINOIS

TERMINAL APRON EXPANSION

SUBCONSULTANTS

PSA ♥ Dewberry

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IL PROJECT: PIA-3812 AIP PROJECT: 3-17-0080-46

REVISIONS							
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NO.	DESCRIPTION	DATE
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DATE ISSUED: 06/27/08
REVIEWED BY: PCB
DRAWN BY: JFC
DESIGNED BY: NDO

AEP PROJECT NUMBER

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ELECTRICAL GROUNDING DETAILS

SHEET NUMBER

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