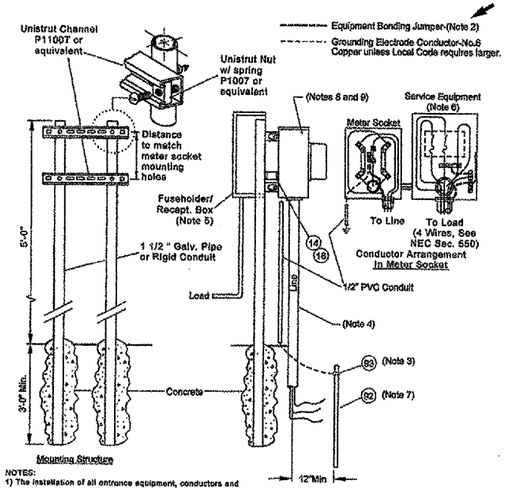
CONTRACT NO.
SC063

ILLINOIS POWER COMPANY
ELECTRIC METER STANDARDS

19-4.203
12-31-02

120/240V, 1 PHASE, - 3 WIRE, 100 OR 200 AMP
UG SERVICE MOBILE HOME



NOTES:
1) The installation of all entrance equipment, conductors and conduit shall conform to local codes or the latest edition of the National Electric Code (NEC).
2) All equipment bonding jumpers on the supply side of service and main bonding jumper shall be sized according to table on reverse. Equipment bonding jumper shall be permitted to be bare, covered, or insulated. Individually covered or insulated equipment jumper shall have a continuous outer finish that is either green or green with one or more yellow stripes.
3) NEC approved clamp. Leave uncovered until after inspection. Ground clasp must be 8" below surface of final grade.
4) Always consult the local IPC office for proper line side conduit size.
5) Different arrangements of the Fuseholder/Recept. Box may be used side-by-side or below meter.
6) If panel is equipped with one fixed bar instead of both a neutral and grounding bar, make sure the green screw is used to ground the bar to the cabinet.
7) Two ground rods recommended to assure requirement of NEC 250.56 is met. Refer to Form 305-73.
8) The electric meter, fuse box, and switch should be installed at least 15" horizontally from gas meter set. When conditions allow, a spacing of 36" is preferable.
9) Customer provided socket must meet 10-2.615 through 2.617.

ELECTRIC UTILITY STANDARDS
NTS

ILLINOIS POWER COMPANY
ELECTRIC METER STANDARDS

18-4.204
12-31-02

MATERIAL LIST

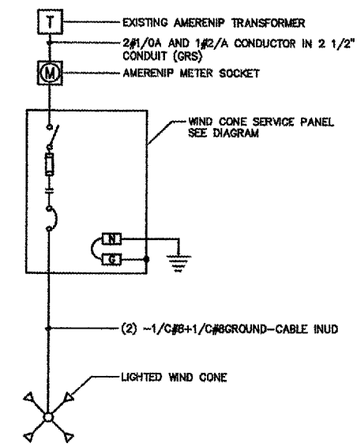
ITEM NO.	DESCRIPTION
(14)[8]	GALVANIZED CONDUIT LOCKNUT.
(18)[9]	GALVANIZED CONDUIT BUSHING. BONDING TYPE.
(92)[6]	COPPERWELD GROUND ROD 5/8" X 10'.
(93)[6]	GROUND ROD CLAMP, 5/8", NEC APPROVED.
...[9]	METERING MOUNTING DEVICE, 100 OR 200 AMP, 1 PHASE, UNDERGROUND. THE METER SOCKET MUST HAVE A U.L. LABEL AND CONFORM TO THE APPLICABLE REQUIREMENTS LISTED IN SUS 10-2.615.

RECOMMENDED SIZE FOR SERVICE ENTRANCE CONDUIT, CONDUCTOR, AND BONDING JUMPER FOR 1 PHASE, 3 WIRE RESIDENTIAL SERVICE (METER TO MAIN PANEL).

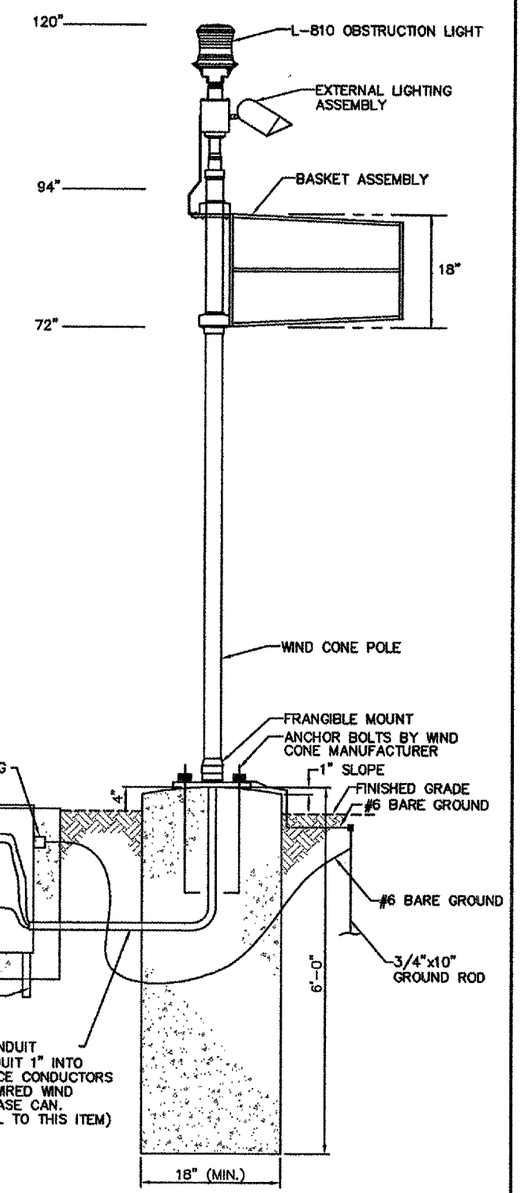
THE FOLLOWING COPPER AND ALUMINUM CONDUCTORS ARE PERMITTED. PROPER APPLICATION OF "CONTAX" GREASE IS REQUIRED WITH ALUMINUM CONDUCTORS.

SERVICE AMPERE RATING	CONDUCTOR SIZE		BONDING JUMPER		CONDUIT SIZE
	CU.	AL.	CU.	AL.	
100 AMP	NO. 3	NO. 1	NO. 8	NO. 6	1 1/2"
200 AMP	4/0	2/0	NO. 2	NO. 4	2 1/2"

NOTES:
1) ALL CONDUCTOR SIZES ARE BASED ON 75°C INSULATION RATING.
2) CUSTOMER IS TO PROVIDE, INSTALL, AND MAINTAIN MATERIAL.
3) IP IS TO PROVIDE, INSTALL, AND MAINTAIN MATERIAL.

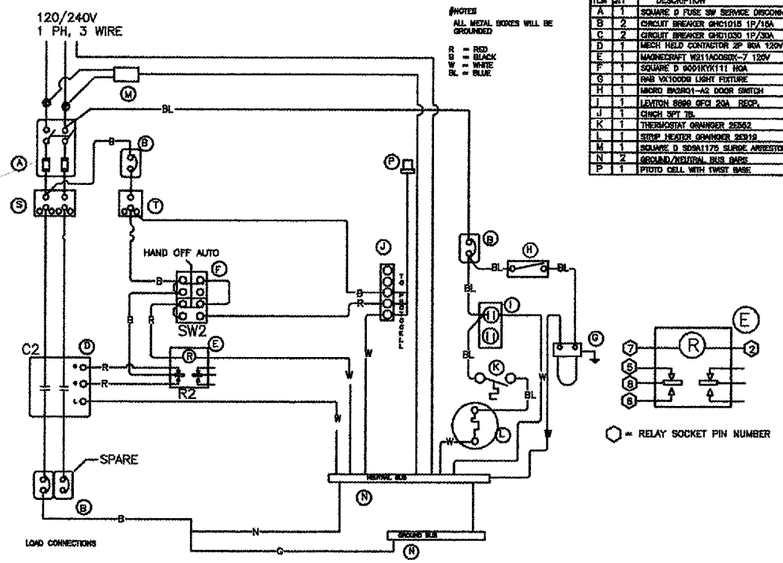


SINGLE LINE DIAGRAM
NTS

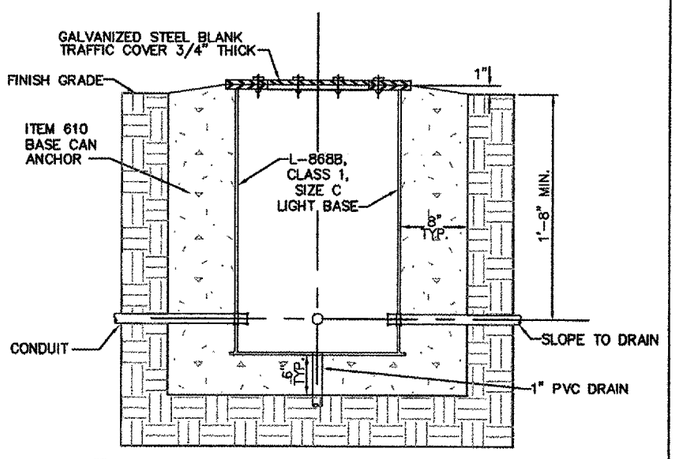


1 WIND CONE PCC BASE ELEVATION
NTS

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	1	SQUARE D FUSE SW SERVICE DISCONNECT ENCLOSURE
B	2	CIRCUIT BREAKER QHC1015 1P/15A
C	2	CIRCUIT BREAKER QHC1030 1P/30A
D	1	MECH HOLD CONTACTOR 2P 60A 120V COIL
E	1	MAGNECRAFT W211AC002C-7 120V
F	1	SQUARE D 9001KYK111 HOA
G	1	RAB VX100DB LIGHT FIXTURE
H	1	MICRO 8M3RG1-A2 DOOR SWITCH
I	1	LEVITON 5599 GFCI 20A RECP.
J	1	CINCH 3PT TB.
K	1	THERMOSTAT GRAINGER 2E352
L	1	STRIP HEATER GRAINGER 2E318
M	1	SQUARE D SDSA1175 SURGE ARRESTOR
N	2	GROUND/NEUTRAL BUS BARS
P	1	PHOTO CELL WITH TWIST BASE



WIND CONE SERVICE PANEL DIAGRAM
NTS



2 TYPICAL INSTALLATION DETAIL FOR Ⓓ BASE CAN IN TURF
N.T.S.

EXPIRES: 11/30/05

DANIEL J. TRAPP
062-054591
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

MidAmerica ST. LOUIS AIRPORT

EarthTech
A Tyco International Ltd. Company

1075 Eastgate Drive
O'Fallon, Illinois 62269
PH 618-624-2628
FAX 618-624-2730

LIGHT SUPPLEMENTAL WIND CONES

COUNTY OF ST. CLAIR STATE OF ILLINOIS

DETAILS

DESIGNED BY: RWH
DRAWN BY: RWH
CHECKED BY: DJT
DATE: 9/23/05

DWG. FILE NAME
87727-E-06

SHEET NO.
6

REV.	DATE	BY	APPR.	DESCRIPTION	PLOT FILE

L:\work\87727\cad\100%\87727-E-06.dwg, 9/23/2005 12:39:41 PM