# Summary of Standard Drawing Changes
## May 2018

<table>
<thead>
<tr>
<th>Std Dwg No.</th>
<th>Summary of Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC.J1.2</td>
<td>Minor changes</td>
</tr>
<tr>
<td>PC.J1.3</td>
<td>Minor changes</td>
</tr>
<tr>
<td>PC.J1.4</td>
<td>Minor changes</td>
</tr>
<tr>
<td>PC.J1.5</td>
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<tr>
<td>PC.J1.8</td>
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</tr>
<tr>
<td>PC.J1.9</td>
<td>Minor changes</td>
</tr>
<tr>
<td>PC.J1.10</td>
<td>Minor changes</td>
</tr>
<tr>
<td>PC.J1.12</td>
<td>Changes to equipment ground conductor requirements; minor changes</td>
</tr>
<tr>
<td>PC.J1.13</td>
<td>Minor changes</td>
</tr>
<tr>
<td>PC.J2.3</td>
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</tr>
<tr>
<td>PC.J2.4</td>
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</tr>
<tr>
<td>PC.J2.5</td>
<td>Minor changes</td>
</tr>
<tr>
<td>PC.J2.6</td>
<td>Minor changes</td>
</tr>
</tbody>
</table>
NOTES:

1) RAMPS TO BE DESIGNED IN ACCORDANCE WITH STANDARD DRAWING PC.F8.4 AND PC.F8.5.

2) NO PORTION OF FOUNDATION SHALL BE LOCATED WITHIN THE LANDING OR "WINGS" OF THE CURB RAMP.

3) FOR TYPE 2 CURB RAMPS, PLACE FOUNDATION AS CLOSE AS POSSIBLE TO THE BACK OF SIDEWALK.

SEE STANDARD DRAWING PC.J1.9 FOR JUNCTION BOX, UTILITY VAULT, UTILITY VALVE AND CONDUIT DETAILS

(NOT TO SCALE)
NOTES:

* WEEP HOLE TO BE PLACED ON DOWNHILL SIDE OF FOUNDATION

### INSTALLED IN SIDEWALK AREA

<table>
<thead>
<tr>
<th>ANCHOR BOLT Ø</th>
<th>ASSUMPTIONS</th>
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<tbody>
<tr>
<td>1.5 IN. Ø BOLT</td>
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</tr>
<tr>
<td>TOP THREADS</td>
<td>0.5 IN.</td>
</tr>
<tr>
<td>NUT HEIGHT X 2</td>
<td>3.0 IN.</td>
</tr>
<tr>
<td>WASHER X 2</td>
<td>0.5 IN.</td>
</tr>
<tr>
<td>BASE PLATE</td>
<td>1.5 IN.</td>
</tr>
<tr>
<td>LEVELING THREADS</td>
<td>1.0 IN.</td>
</tr>
<tr>
<td>SIDEWALK DEPTH (PC TO PT)</td>
<td>6.0 IN.</td>
</tr>
<tr>
<td>Y</td>
<td>12.5 IN.</td>
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### INSTALLED IN AREA WITH NO SIDEWALK

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(NOT TO SCALE)
SEE STANDARD DRAWING PC.J1.9 FOR JUNCTION BOX, UTILITY VAULT, UTILITY VALVE, AND CONDUIT DETAILS

NOTES:

1) ANCHOR BOLTS SHALL NOT BE LOCATED WITHIN THE SIDEWALK.

2) UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER, ALL AREAS WITH ILLUMINATION SHALL ALSO REQUIRE A SPARE 2-INCH SCHEDULE 80 PVC CONDUIT, WITH SEPARATE TYPE 2 OR TYPE B JUNCTION BOXES (AS DETERMINED BY PIERCE COUNTY), LOCATION WIRE, AND UNDERGROUND DETECTABLE WARNING TAPE.

* WEEP HOLE TO BE PLACED ON DOWNHILL SIDE OF FOUNDATION

INSTALLED IN SIDEWALK AREA

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<tr>
<td>LEVELING THREADS</td>
<td>1.0 IN.</td>
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<tr>
<td>SIDEWALK DEPTH</td>
<td>4.0 IN.</td>
</tr>
<tr>
<td>Y</td>
<td>8.5 - 9.0 IN.</td>
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NOTE: GROUT PAD HEIGHT SHALL BE 1.0 - 1.5 IN.

INSTALLED IN AREA WITH NO SIDEWALK

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NOTE: GROUT PAD HEIGHT SHALL BE 1.0 - 1.5 IN.

LIGHT STANDARD WITHOUT SIDEWALK

(SEE "LIGHT STANDARD AT BACK OF SIDEWALK" DETAIL THIS SHEET FOR FOUNDATION CONSTRUCTION INFORMATION)

(PAST TO SCALE)

Pierce County
Public Works
Office of the County Engineer
Tacoma Mall Office Building
4301 South Pine Street, Suite 628
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ALUMINUM LIGHT STANDARD FOUNDATION

BRIAN D. STACY, P.E.
COUNTY ENGINEER

Office of the County Engineer

PC.J1.4
STREET LIGHTING SPECIFICATIONS

40-FOOT ALUMINUM LIGHT STANDARD

1) DIMENSIONS

LIGHT STANDARDS SHALL PROVIDE A FIXTURE MOUNTING HEIGHT OF 40 FEET PLUS OR MINUS 6 INCHES, WITH A MAST ARM AS SPECIFIED IN THE PLAN.

HAND HOLE (WITH GROUND LUG AND REMOVABLE COVER) CENTER SHALL BE LOCATED APPROXIMATELY 18 INCHES FROM THE BASE PLATE, ROTATED CLOCKWISE 90 DEGREES FROM MAST ARM.

2) STRENGTH

STANDARDS SHALL MEET ALL STRENGTH REQUIREMENTS OF THE CURRENT EDITION OF AASHTO FOR 115 MPH ISO TACH WHEN USED WITH A LUMINARIE WEIGHING 48 POUNDS WITH E.P.A. OF 1.3 SQUARE FEET.

3) FINISH

THE STANDARDS AND LUMINARIE ARMS SHALL BE MADE OF SPUN ALUMINUM, SATIN GROUND FINISH.

4) ALL ATTACHING BOLTS AND SCREWS THAT ARE NOT GALVANIZED SHALL BE STAINLESS STEEL. BOLTS THAT ATTACH THE BRACKET ARM TO THE POLE SHALL BE A MINIMUM OF 1.5 IN. LONG.

5) POLE (TOP) CAP SHALL BE FITTED ABOVE MAST ARM ATTACHMENT AND SHALL EXTEND OVER THE OUTSIDE DIAMETER OF THE POLE WITH A WATER RESISTANT FIT.

* CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF BOLT PATTERN PRIOR TO FOUNDATION CONSTRUCTION

(NOT TO SCALE)
4.5 IN. O.D. POLE, GALVANIZED (NOTE 2), LENGTH AS REQUIRED IN PLANS
ALUMINUM PEDESTAL BASE WITH ALUMINUM DOOR (NOTE 6)
GROUNDING LUG WITH NUT
(SEE CURRENT WSDOT STD PLAN J.00.20-XX AND PC.J1.12 FOR GROUNDING DETAILS)
CONDUIT HEIGHT
(SAME AS BOLT HEIGHT)
HEX NUT, WITH FLAT WASHER-
MINIMUM OF 2 THREADS ABOVE TOP OF NUT, TYP. (NOTE 1)
SIDEWALK, IF APPLICABLE
GROUT PAD, WITH WEEP HOLE*
ANCHOR BOLT, IN ACCORDANCE WITH BASE MANUFACTURER'S RECOMMENDATIONS, TYP.
CLAMP CONDUCTOR TO STEEL REINFORCING WITH CONNECTOR (NOTE 3)
SUPPLEMENTARY GROUND CONDUCTOR (NOTE 3 AND 5)
RMC CONDUIT IN ACCORDANCE WITH PLANS, DEPTH IN ACCORDANCE WITH CURRENT STANDARD SPECIFICATIONS (NOTE 4)

NOTES:
1) CLAMPING BOLTS SHALL BE TIGHTENED TO 50 FT-LBS MAX TORQUE. DO NOT OVER TIGHTEN.
2) ALL POLES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
3) SUPPLEMENTAL GROUNDING CONDUCTOR SHALL BE NON-INSULATED #4 AWG STRANDED COPPER, PROVIDE 3 FT. MIN. SLACK. CLAMP TO VERTICAL STEEL REINFORCING BAR WITH LISTED CONNECTOR SUITABLE FOR USE EMBEDDED IN CONCRETE.
4) JUNCTION BOX SERVING THE STANDARD SHALL PREFERABLY BE LOCATED 5 FT. FROM THE STANDARD (10 FT. MAX).
5) EQUIPMENT GROUNDING CONDUCTOR SHALL ATTACH TO GROUNDING LUG WITH A FULL CIRCLE CRIMP-ON CONNECTOR (CRIMPED WITH A MANUFACTURER-RECOMMENDED CRIMPER).
6) HAND HOLE/DOOR LOCATED AT 180 DEGREES FROM MAJOR ROADWAY.
7) FOUNDATION MAY BE CONSTRUCTED USING METHOD 1 OR METHOD 2, UNLESS OTHERWISE SHOWN IN THE PLANS. SEE WSDOT STANDARD PLAN J.08.30-XX.

* WEEP HOLE TO BE PLACED ON DOWNSIDE SIDE OF FOUNDATION.

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COUNTY ENGINEER

PIERCE COUNTY
PEDESTRIAN STANDARD FOUNDATION

Office of the County Engineer

PC.J1.8
NOTES:
1) NO JUNCTION OR UTILITY BOXES, VAULTS, UTILITY APPURTENANCES, VALVES, LIDS OR COVERS SHALL BE INSTALLED IN THE LANDINGS OR RAMPS AS DESIGNATED BY CROSS HATCH.
2) USE 3/8 IN. PREMOLDED JOINT FILLER BETWEEN CONCRETE AND JUNCTION BOXES.

SEE STANDARD DRAWINGS PC.J1.2 AND PC.J1.3 FOR SIGNAL POLE FOUNDATION AND PLACEMENT DETAILS

TYPE 1 CURB RAMP

BACK OF WALK

4 FT. MIN

4 FT. MIN

4 FT. MIN

SIDEWALK SECTION

SIDEWALK

CONDUIT SHALL BE PLACED WITHIN BACK 2 FT. OF SIDEWALK AND IN ACCORDANCE WITH THE CURRENT WSDOT STANDARD SPECIFICATIONS.

CURB AND GUTTER

LIGHT STANDARD AND FOUNDATION
SEE PC.J1.4 FOR DETAILS

JUNCTION BOXES SHALL BE FLUSH WITH BACK OF SIDEWALK, PLACED WITHIN 10 FEET OF FOUNDATION.
USE 3/8 IN. PREMOLDED JOINT FILLER BETWEEN CONCRETE AND JUNCTION BOXES.

TYPE 2 CURB RAMP

BACK OF WALK

SEE STANDARD DRAWINGS PC.J1.2 AND PC.J1.3 FOR SIGNAL POLE FOUNDATION AND PLACEMENT DETAILS

NOT TO SCALE
NOTES:

1) INSTALL END OF MOUNTING BRACKET APPROXIMATELY 6 INCHES FROM THE LUMINAIRE. SHORT SIDE OF THE BRACKET SHALL BE CLOSEST TO THE LUMINAIRE. THE CAMERA MOUNTING BRACKET SHALL BE ON THE HORIZONTAL PORTION OF THE LUMINAIRE ARM.

2) ADJUSTABLE WORM DRIVE HOSE CLAMPS SHALL BE STAINLESS STEEL WITH STAINLESS STEEL HARDWARE, 0.5-INCH WIDE, AND OF AN APPROPRIATE LENGTH FOR THE LUMINAIRE ARM DIAMETER. TUCK EXCESS HOSE CLAMP (TAIL) BACK INTO THE SLOT ON THE CAMERA MOUNT. EACH SLOT IN THE MOUNTING BRACKET SHALL HAVE ONE HOSE CLAMP. USE ALL SLOTS.

3) USE THREADED BUSHING (GALVANIZED STEEL) FOR POLE ENTRY. BUSHING SIZE TO BE DETERMINED BY THE CABLE SIZE. POLE ENTRY SHALL BE ON THE BOTTOM SIDE OF THE LUMINAIRE ARM.

4) PROVIDE A SERVICE LOOP 6-8 INCHES IN DIAMETER, WITH ONE WRAP. FOR CAMERAS WITH SHIELDED COAX CABLE, ENSURE THE SHIELING IS UNDER THE SHIELD GROUNDING CLAMP WHERE IT CONNECTS TO THE BACK OF THE CAMERA. IT MAY BE NECESSARY TO REMOVE THE OUTER JACKET FROM THE CAMERA TO THE BUSHING - FOLLOW THE MANUFACTURER’S INSTALLATION INSTRUCTIONS.

5) SUPPORT AND TIE WRAP VIDEO CABLE TO THE C-HOOK AT THE TOP OF THE SIGNAL STANDARD. TIE WRAP SERVICE LOOP TO MAST ARM. THERE SHOULD BE NO TENSION ON THE VIDEO CABLE BETWEEN THE C-HOOK AND THE CAMERA.
NOTES:
1) SERVICE GROUND IS REQUIRED AT ALL ELECTRICAL SERVICE CABINETS.
2) GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (#8 AWG MINIMUM).
3) GROUND ROD CLAMPS SHALL BE ACORN STYLE AND ON THE WSDOT QUALIFIED PRODUCT LIST.
4) GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS - NO SPICES ARE ALLOWED.
CONTRACTOR TO VERIFY REQUIREMENTS & ACCEPTABILITY WITH SERVICE COMPANY

COMPONENT SCHEDULE
METER BASE, 200 AMP, 4 JAW, WITH BYPASS BLOCKS, LEVERS, AND/OR SHUNTS PER UTILITY COMPANY.

PANEL BOARD 120/240 VAC, 1 PHASE, 3 WIRE, 125 AMP, 18CKT, COPPER BUS,
WESTINGHOUSE TYPE BAB BOLT-ON-BREAKERS, 10 X 1/2, S.U.S.E. 125/2 MAIN
(WESTINGHOUSE BAB 2125).

LIGHTING CONTACTORS, 30 A, 2 POLE, 600 VOLT, 120 VOLT COIL, IN
ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS.

RECEPTACLE, 120 BOLT, 20 A.

PHOTOCOLL BYPASS SWITCH, 15 A, SPDT, 120 VOLT.

THREE POINT TERMINAL BLOCK FOR REMOTE PHOTOCOLL.

CABINET
NEMA 3R, PADMOUNT, 1/8 IN. MILL FINISH ALUMINUM CONSTRUCTION,
REMOVABLE EQUIPMENT MOUNTING PAN, 2 SCREENED & GASKETTED VENTS,
HINGED DEADFRONT.

HOUSE SIDE
DOOR: HEAVY DUTY CONCEALED HINGE, LIFT-OFF TYPE,
STAINLESS STEEL VAULT HANDLES, BEST CLX LOCK WITH
BLUE CONSTRUCTION CORE, CLOSED CELL NEOPRENE
GASKET. HINGES ON LEFT SIDE OF DOOR.

STREET SIDE
DOOR: HEAVY DUTY CONCEALED HINGE, 3-SIDED TO FULLY EXPOSE
METER WHEN OPENED, PADLOCKABLE, POLISHED WIRE
4 IN. X 4 IN. GLASS WINDOW. HINGES ON RIGHT SIDE OF
DOOR.

FINISH: BARE, MILL FINISH ALUMINUM.

WIRED AND LABELED IN ACCORDANCE WITH UL STANDARD #508A, SUITABLE FOR
USE AS SERVICE EQUIPMENT.

NOT TO SCALE

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BRIAN D. STACY, P.E.
COUNTY ENGINEER

PAD-MOUNTED
SERVICE CABINET
NOTES:

1) 3/8 IN. #8 PLASTIC DRAIN TUBE TO BE PROVIDED FROM BASE OF CABINET TO TOP OF CONCRETE PAD AT HOUSE SIDE OF CONCRETE PEDESTAL.

2) SERVICE CABINET GROUNDING CONDUIT NOT SHOWN. CONDUIT SHALL BE RMC. SEE PC.J1.12 AND PC.J1.13 FOR TYPICAL GROUNDING DETAILS. NO GROUND RODS SHALL BE INSTALLED IN THE PEDESTAL.

3) DIMENSIONS TO SUIT CABINET; CONTRACTOR SHALL VERIFY ACTUAL CABINET MEASUREMENTS PRIOR TO FORMING CONCRETE PAD AND PEDESTAL.

4) CONCRETE PAD SHALL HAVE A BRUSHED FINISH; THE CONCRETE PEDESTAL TOP SHALL HAVE A SMOOTH, TROWEL FINISH, WITH 0.5 IN. ROUND FILLET ON OUTSIDE TOP EDGE.

5) SEAL CONCRETE PEDESTAL TOP WITH SILVER PAINT. APPLY ADEQUATE OUTDOOR SEALANT JUST PRIOR TO PLACING CABINET. SEAL CABINET TO CONCRETE PEDESTAL. APPLY DRESS BEADING AROUND CABINET TO COMPLETE SEAL. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

6) CONDUITS SHALL BE INSTALLED WITHIN THE FRONT HALF OF THE SERVICE CABINET. THE NEAREST EDGE OF THE EXPOSED CONDUIT SHALL BE SPACED 6 IN. MIN TO 9 IN. MAX MEASURED FROM THE HOUSE SIDE OF THE CONCRETE PEDESTAL. THE EXPOSED CONDUIT SHALL NOT INTERFERE WITH THE CABINET BASE.

7) SERVICE CONDUIT INTO THE SERVICE CABINET SHOULD FOLLOW LOCAL POWER UTILITY SPECIFICATIONS; PLACEMENT TO MATCH SERVICE CABINET CONSTRUCTION. SOME UTILITIES MAY REQUIRE A DATA CONDUIT.

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COUNTY ENGINEER

OFFICE OF THE COUNTY ENGINEER

STAND ALONE SERVICE CABINET PEDESTAL

PC.12.4
NOTES:

1) SERVICE CABINET TO BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET. CONTROLLER CABINET DOOR TO OPEN OPPOSITE TO SERVICE CABINET LOCATION.

2) 3/8 IN. Ø PLASTIC DRAIN TUBE TO BE PROVIDED FROM BASE OF EACH CABINET TO TOP OF CONCRETE PAD AT HOUSE SIDE OF CONCRETE PEDESTAL.

3) SERVICE CABINET GROUNDING CONDUIT NOT SHOWN. CONDUIT SHALL BE RMC. SEE PC.J1.12 AND PC.J1.13 FOR TYPICAL GROUNDING DETAILS. NO GROUND RODS SHALL BE INSTALLED IN THE PEDESTAL.

4) DIMENSIONS TO SUIT CABINETS; CONTRACTOR SHALL VERIFY ACTUAL CABINET MEASUREMENTS PRIOR TO FORMING CONCRETE PAD AND PEDESTAL.

5) CONCRETE PAD SHALL HAVE A BRUSHED FINISH; THE CONCRETE PEDESTAL TOP SHALL HAVE A SMOOTH, TROWEL FINISH, WITH 0.5 IN. ROUND FILLET ON OUTSIDE TOP EDGE.

6) SEAL CONCRETE PEDESTAL TOP WITH SILVER PAINT. APPLY ADEQUATE OUTDOOR SEALANT JUST PRIOR TO PLACING CABINET. SEAL CABINET TO CONCRETE PEDESTAL. APPLY DRESS BEADING AROUND CABINET TO COMPLETE SEAL. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

7) CONDUITS SHALL BE INSTALLED WITHIN THE FRONT HALF OF THE CONTROLLER AND SERVICE CABINETS. THE NEAREST EDGE OF THE EXPOSED CONDUIT SHALL BE SPACED 5 IN. MIN TO 9 IN. MAX MEASURED FROM THE HOUSE SIDE OF THE CONCRETE PEDESTAL. THE EXPOSED CONDUIT SHALL NOT INTERFERE WITH THE CABINET BASE.

8) SERVICE CONDUIT INTO THE SERVICE CABINET SHOULD FOLLOW LOCAL POWER UTILITY SPECIFICATIONS; PLACEMENT TO MATCH SERVICE CABINET CONSTRUCTION. SOME UTILITIES MAY REQUIRE A DATA CONDUIT.

NOT TO SCALE

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BRIAN D. STACY, P.E.
COUNTY ENGINEER

COMBINED
CONTROLLER AND
SERVICE CABINET
PEDESTAL

Office of the County Engineer

PC.J2.5
NOTES:

1) SERVICE CABINET TO BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET. CONTROLLER CABINET DOOR TO OPEN OPPOSITE TO SERVICE CABINET LOCATION. BATTERY BACKUP CABINET DOOR TO OPEN TOWARD THE STREET SIDE.

2) 3/8 IN. B PLASTIC DRAIN TUBE TO BE PROVIDED FROM BASE OF EACH CABINET TO TOP OF CONCRETE PAD AT HOUSE SIDE OF CONCRETE PEDESTAL.

3) SERVICE CABINET GROUNDING CONDUIT NOT SHOWN. CONDUIT SHALL BE RMC. SEE PC.J1.12 AND PC.J1.13 FOR TYPICAL GROUNDING DETAILS. NO GROUND RODS SHALL BE INSTALLED IN THE PEDESTAL.

4) CONCRETE PAD SHALL HAVE A BRUSHED FINISH; THE CONCRETE PEDESTAL TOP SHALL HAVE A SMOOTH, TROWEL FINISH, WITH 0.5 IN. ROUND FILLET ON OUTSIDE TOP EDGE.

5) DIMENSIONS TO SUIT CABINETS; CONTRACTOR SHALL VERIFY ACTUAL CABINET MEASUREMENTS PRIOR TO FORMING CONCRETE PAD AND PEDESTAL.

6) SEAL CONCRETE PEDESTAL TOP WITH SILVER PAINT. APPLY ADEQUATE OUTDOOR SEALANT JUST PRIOR TO PLACING CABINET. SEAL CABINET TO CONCRETE PEDESTAL. APPLY DRESS READIN G AROUND CABINET TO COMPLETE SEAL. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

7) CONDUITS SHALL BE INSTALLED WITHIN THE FRONT HALF OF THE CONTROLLER, SERVICE, AND BATTERY BACKUP CABINETS. THE NEAREST EDGE OF THE EXPOSED CONDUIT SHALL BE SPACED 6 IN. MIN TO 9 IN. MAX MEASURED FROM THE HOUSE SIDE OF THE CONCRETE PEDESTAL. THE EXPOSED CONDUIT SHALL NOT INTERFERENCE WITH THE CABINET BASE.

8) SERVICE CONDUIT INTO THE SERVICE CABINET SHOULD FOLLOW LOCAL POWER UTILITY SPECIFICATIONS; PLACEMENT TO MATCH SERVICE CABINET CONSTRUCTION. SOME UTILITIES MAY REQUIRE A DATA CONDUIT.

9) COUNTY ENGINEER SHALL DETERMINE WHEN BATTERY BACKUP SYSTEM AND PEDESTAL SHALL BE USED.

10) CONCRETE PEDESTAL SHALL BE CONSTRUCTED LEVEL. CONCRETE PAD SHALL BE SLOPED TO THE HOUSE SIDE (2% SLOPE) TO FACILITATE WATER RUNOFF. (NOT TO SCALE)