

6-22-199
SHEET 1

**UNDERGROUND SECTIONALIZING**  
Customer Reference Specification  
PPL EU Ultra Service Park – Typical Utility Plan

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## PPL EU Ultra Service Park Typical Utility Plan

Replaces CRS-1008  
406C-199

This specification and the specifications listed below define customer responsibilities and requirements for underground service to ultra service parks.

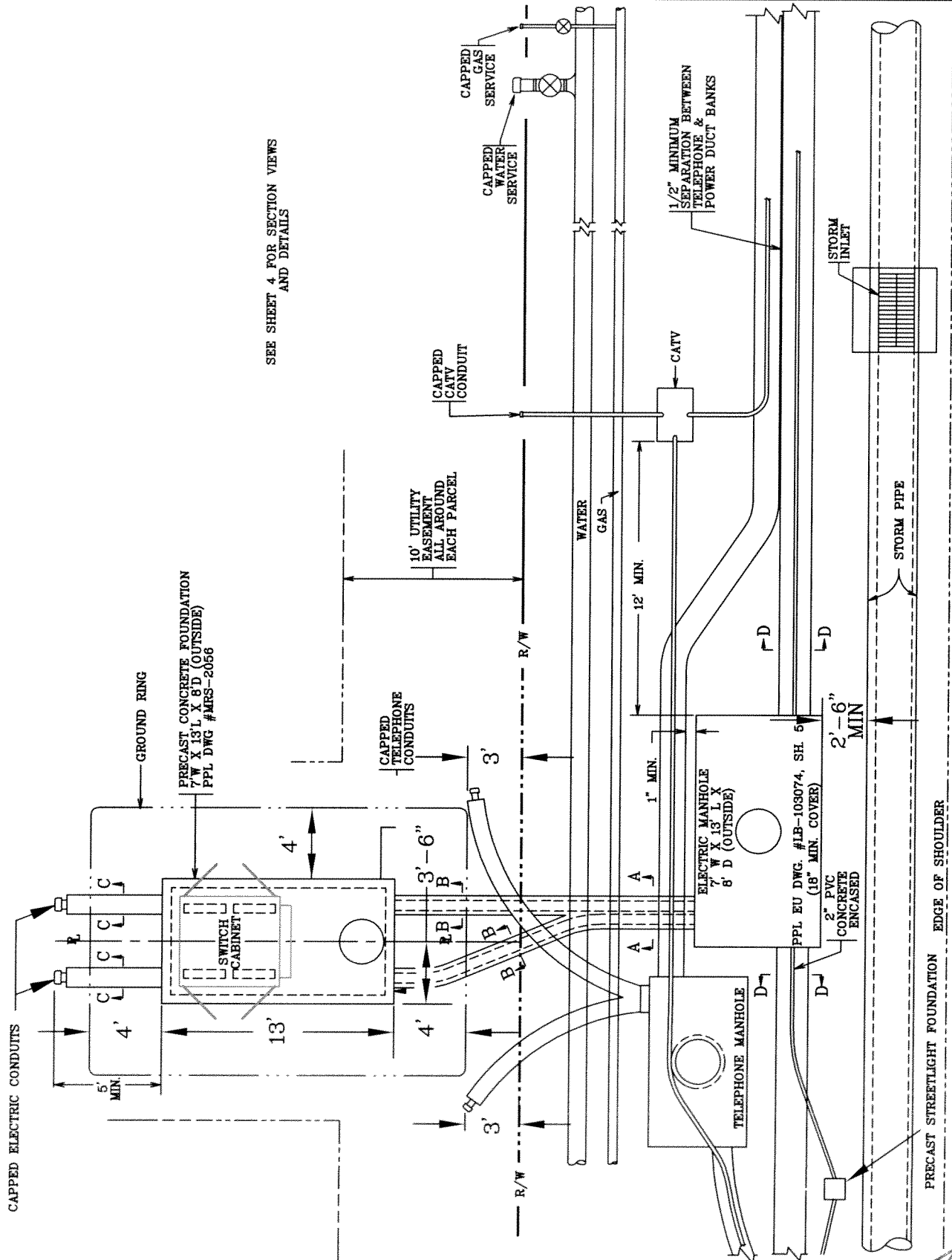
All details of these specifications and the construction plan must be strictly followed. Any deviation must be approved by a PPL EU engineer. Unapproved deviations are usually costly for the customer to correct and can result in delays or possible refusal to connect service.

REFERENCE SPECIFICATIONS:

- A-168735      INSTALLATION OF DUCT SYSTEM
- A-168712      INSTALLATION OF PRECAST MANHOLE AND SWITCHGEAR FOUNDATION
- A-190974      CONCRETE SPECIFICATION
- CRS 6-18-115    INSTALLATION INSTRUCTIONS FOR CUSTOMER-INSTALLED CONDUIT SYSTEMS ON PPL EU TERMINAL POLES
- CRS 6-22-198    INSTALLATION INSTRUCTIONS FOR PERCAST CONCRETE FOUNDATION FOR THREE-PHASE PAD-MOUNTED MANUAL OR AUTOMATIC SOURCE TRANSFER SWITCH

DISTRIBUTION CONSTRUCTION SPECIFICATIONS  <b>PPL ELECTRIC UTILITIES CORPORATION</b>	Date: <u>11/21/08</u> Drafter: <u>RRC</u> 6-22-199_S001.dwg
	Sponsor: _____ Approved: <u>Mark R. Bennett</u> Manager-Distribution Maintenance

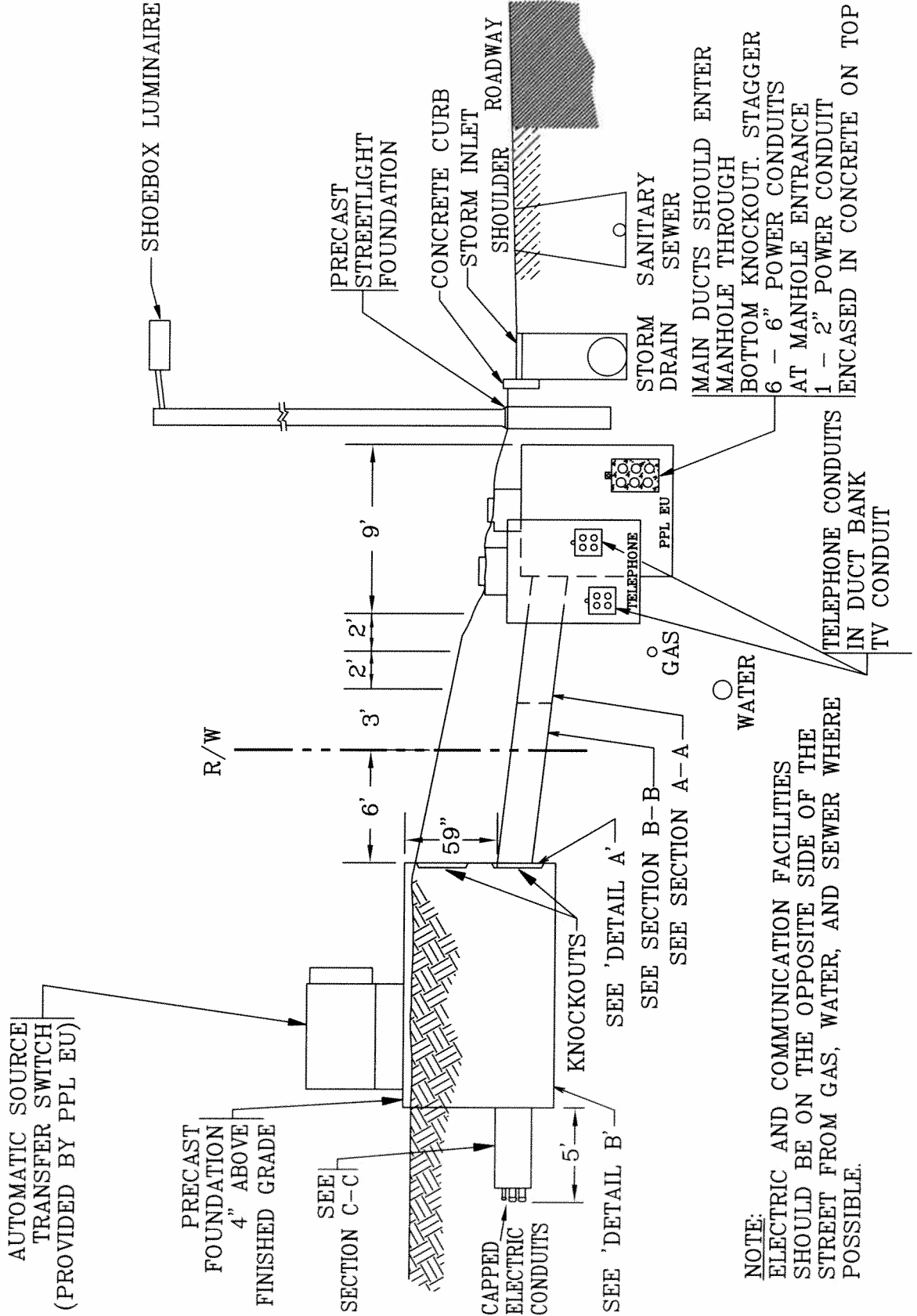
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SEE SHEET 4 FOR SECTION VIEWS AND DETAILS

<p>DISTRIBUTION CONSTRUCTION SPECIFICATIONS</p> <p><b>PPL ELECTRIC UTILITIES CORPORATION</b></p>	Date: <u>11/21/08</u> Drafter: <u>RRC</u>	6-22-199_S002.dwg
	Sponsor: _____	
	Approved: <u>M. R. Berry</u> Manager - Distribution Maintenance	

SEE SHEET 4 FOR SECTION VIEWS AND DETAILS

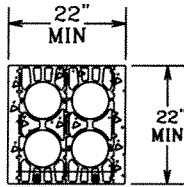
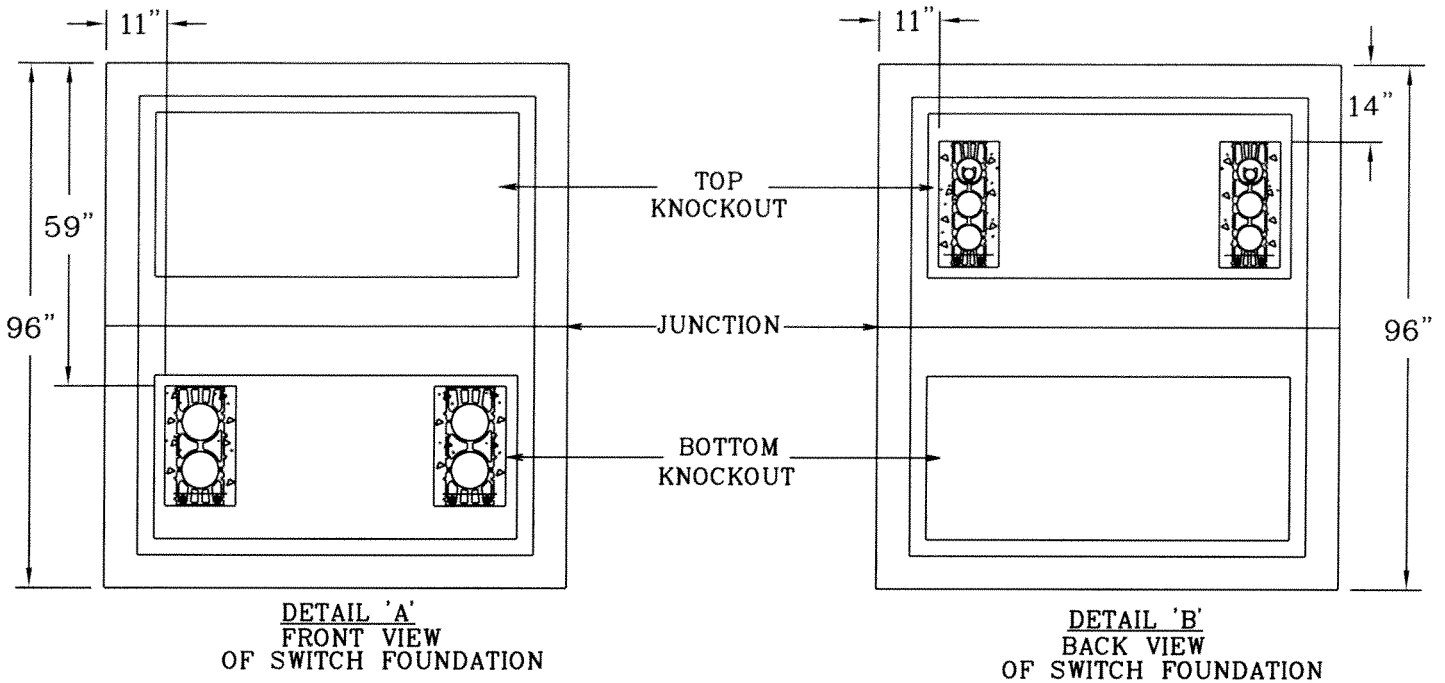


NOTE:  
ELECTRIC AND COMMUNICATION FACILITIES SHOULD BE ON THE OPPOSITE SIDE OF THE STREET FROM GAS, WATER, AND SEWER WHERE POSSIBLE.

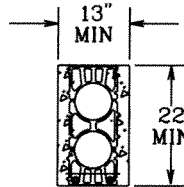
**UNDERGROUND SECTIONALIZING**

Customer Reference Specification

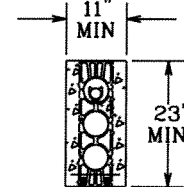
PPL EU Ultra Service Park - Typical Utility Plan



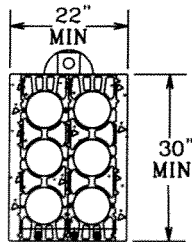
**SECTION A-A**  
4 - 6" CONCRETE ENCASED  
TYPE DB OR TYPE EB  
POWER CONDUITS  
6" PLASTIC DUCT SPACERS  
PROVIDE 2" SEPARATION  
BETWEEN CONDUITS



**SECTION B-B (SEE NOTE 3)**  
2 - 6" CONCRETE ENCASED  
TYPE DB OR TYPE EB  
POWER CONDUITS  
6" PLASTIC DUCT SPACERS  
PROVIDE 2" SEPARATION  
BETWEEN CONDUITS



**SECTION C-C**  
2 - 4" CONCRETE ENCASED  
TYPE DB POWER CONDUIT STUBS  
1 - 2" CONCRETE ENCASED  
TYPE DB POWER CONDUIT STUB  
4" PLASTIC DUCT SPACERS  
PROVIDE 1-1/2" SEPARATION  
BETWEEN CONDUITS



**SECTION D-D**  
6 - 6" CONCRETE ENCASED TYPE DB  
OR TYPE EB POWER CONDUITS  
(STAGGERED AT MANHOLE ENTRANCE)  
1 - 2" TYPE DB POWER CONDUIT  
ON TOP ENCASED IN 4" X 4" CONCRETE  
(MINIMUM)  
6" PLASTIC DUCT SPACERS PROVIDE 2"  
SEPARATION BETWEEN CONDUITS

**NOTES:**

1. PLACE #4 REINFORCING RODS ALONG AND ACROSS DUCT RUNS AS SPECIFIED BY A PPL ENGINEER.
2. A MINIMUM OF 3" OF CONCRETE IS REQUIRED AROUND THE OUTSIDE OF ALL CONDUITS.
3. USE 22-1/2° SWEEPS (WITH A 48" MIN. RADIUS BEND) TO FORM WYE SECTION OF DUCT RUN.
4. VIBRATE ALL FIELD POURED CONCRETE TO ELIMINATE AIR POCKETS.