Notes.

1. Coordination: Coordinate location of transformer and pad with power company.

2. Transformer: Provided, installed and wired by power company.

3. Transformer Pad: Install per power company requirements for size and location. Refer to service enclosure pad for material specifications.

4. Service Enclosure Pad: Structure shall be set not less than 3'–0" nor more than 5'–0" from power company transformer pad. Concrete shall be class "C", 4000 PSI, 5–7% air entrained. Fill all exposed surface voids. Chamfer all edges. Slope top 1/4" to drain water. Hot or cold weather – follow City of Columbus Construction and Material Specifications, Section 1000. Finish – remove all form marks, provide floated and steel troweled finish.

5. Welded Wire Fabric: Provide 6x6–6x6. Mount on all sides and top. Maintain 3" minimum cover.

6. Service Enclosure: Provide a NEMA watertight stainless steel enclosure, 30"H x 18"W x 15"D. Having a single continuous hinged locking door, interior mounting panel. 6" minimum matching floor stand. Concrete and or bolt type anchor and level to pad via stainless steel machine bolt, nuts & lockwashers. Drill bottom of enclosure with 1/4" weep hole at low point.

7. Service Enclosure Finish: A dark bronze approved by the City Engineer. The paint shall be a powder paint finished to a gloss of 35% (at 60 degrees).

8. Service Enclosure Lock:

   A. Internal: Key all locking mechanisms alike to NEMA traffic signal number 2 key.

   B. External: All pad locks shall be American Lock, Model No. 1207B, Key No. 43737.

9. Lighting Controller: A class R fusible combination lighting contactor type controller assembly rated according to the total ampacity of the lighting phase, 60HZ with solid neutral, electrically held with control fuse, 120 volt control voltage, 3 position hand – off auto selector switch and photocell control. Mount all devices in a service enclosure less photo control.

   Approved Manufacturer: Square "D" Night–Master SPG–60, or approved equal.

10. Photocell Controller: Provide an on–off photo–initated controller with sealed cadmium sulfide photocell to operate in –30 degrees F to +140 degrees F temperatures, thermal inertia of 15 seconds minimum, threaded pipe nipple, rated 16 Amps, 2000 Watts at 120V, and single pole single throw switch. Turn–ON shall be 1–3 footcandles and Turn–OFF to Turn–ON ratio is 5 maximum. Provide in weatherproof enclosure. Load shall remain "ON" in case of cell failure. Mount atop first pole from service enclosure.

    Approved Manufacturer: Tork

11. Grounding: Provide 5/8" x 10'–0" copper weld one piece ground rod. Drive a minimum of 2'–0" below grade. Run #8 AWG solid copper grounding electrode conductor in 3/4" PVC conduit from rod to enclosure ground bar. "Thermo" or "Cad" weld wire connection to rod.

12. Fusing: Service entrance – provide dual element, time delay fuses, UL Class RK–1, 600V, rejection type.

    Approved Manufacturer: Buss #LPN–RK.

13. Control Circuit: Provide single element, fast acting–type fuse UL Class CC, 250V, rejector type.

    Approved Manufacturer: Buss #KTK–R.

APPROVED Clyde R. Seidle 9–1–15 CITY ENGINEER DATE	THOROUGHFARE STREET/ OLD HILLIARD SERVICE ENCLOSURE	CITY OF HILLIARD, OHIO STANDARD CONSTRUCTION DRAWING
SCALE: N/A		1/2 SL–5

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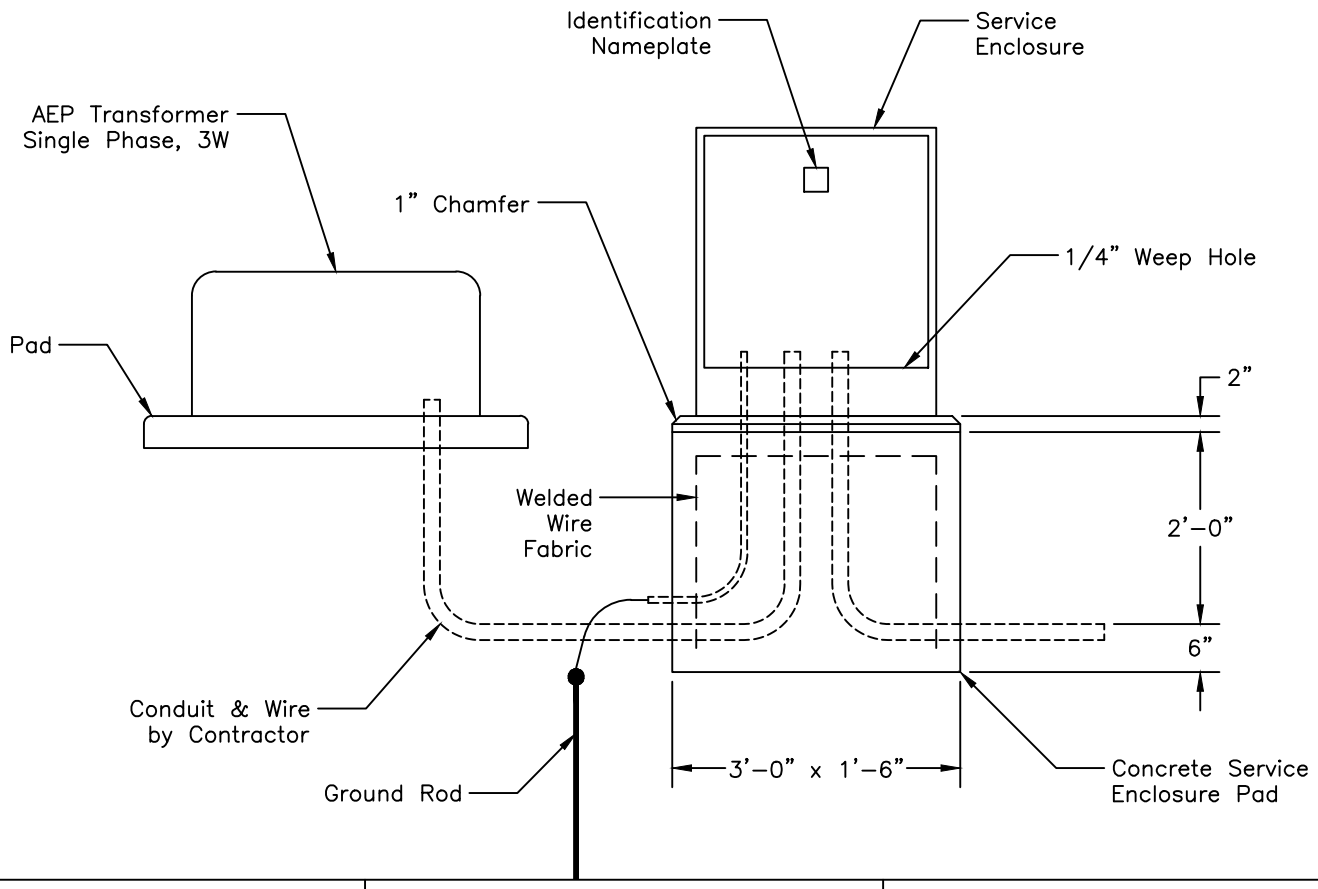
14. Nameplate: Stainless steel screw attached. Provide permanent weather resistant engraved lamincoid nameplate 3" square minimum 3/4" helvetica white letters on a dark bronze background with cabinet circuit embossed into it per plan schedule.

15. Conduit: Shall be heavy wall 2". rigid nonmetallic schedule 40 PVC for use above and below ground or concrete encased. Rated for 90 degrees Celsius conductors and use in direct sunlight. Material shall be UL listed and comply with NEMA TC2–1978 and F.S. #WC–1094A. Provide in 10 foot sections. Seal all joints watertight. Glue joints with PVC cement. Bush all ends. All bends shall use long radius preformed elbows. Extend conduit to minimum 2'–0" below grade. Location to be coordinated with landscaping and utilities.

16. Weatherproofing: Provide penetrating surface applied, 1 coat concrete waterproofing agent. Material shall be clear penetrating, water based, alkyalkoxysilane and contain a minimum of 40% by weight solids and be applied per manufacturer's directions. Coverage shall be 150 square feet per gallon (provide Hydrozo Enviroseal 40 or approved equal). Apply 1 coat to all concrete surfaces above grade.

17. Wiring: Refer to general specifications.



APPROVED	THOROUGHFARE STREET/ OLD HILLIARD SERVICE ENCLOSURE	CITY OF HILLIARD, OHIO	
Clyde R. Seidle 9–1–15 CITY ENGINEER DATE		STANDARD CONSTRUCTION DRAWING	
SCALE: 1/2" = 1'		2/2	SL–5

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