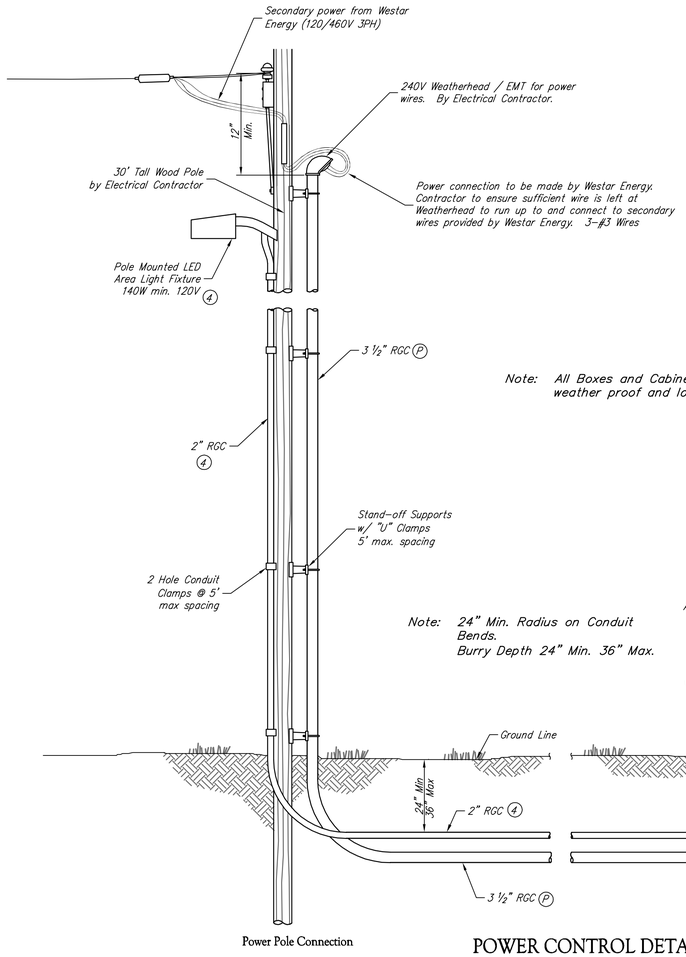
GENERAL NOTES

1. Work to comply with the latest approved edition of the National Electrical Code, OSHA, Plan Drawings and Specifications. Perform work in accordance with NECA 1–2000 Standard Practice for Good Workmanship in Electrical Contracting.
2. Study plans and specifications carefully and visit job site prior to submitting bid. Verify details relating to electrical work. Provide a complete and operable electrical installation that is compliant with applicable codes. Report omissions to the Engineer.
3. Individual wire colors in electrical circuits shall conform to industry standards.
4. All wiring shall be in rigid galvanized conduit (RGC) unless noted otherwise, along or through the structure walls, below ground or above ground.
5. Run conductors continuously with same color combinations from source point to terminal point.
6. Do not splice in conduits or power pull–boxes unless noted otherwise.
7. Verify that all surge protection provided is sized for installed equipment. Revise if required.
8. The Owner reserves the right to relocate outlets, equipment and controls slightly from locations shown.
9. Power to be provided by Westar Energy. Westar will provide overhead power lines to a connecting point inside the fenced perimeter. The Electrical Contractor shall supply and install a wood pole for incoming power lines to terminate and connect to the project lines. Electrical Contractor shall provide wire, a galvanized weather head, and galvanized conduit to take the power lines from the top of the pole to the control panel assembly near the pole. See plan drawings for details. Power is expected to be 120/240 Volt, single phase. Contact Shane Price with Westar at 261–6315 at least 1 week prior to needing power.
10. Meter box will be provided by Westar Energy and installed by the Electrical Contractor. The meter will be furnished and installed by Westar.
11. Control panel assembly shall be above ground, supported by sections of water pipes embedded in concrete with strapped–on perforated steel tubes or channels to support the cabinets. Support pipes, support channels and cabinets to be heavily galvanized.
12. Control and power equipment to be in NEMA 4X metal cabinets, weather tight and lockable.
13. Included on the control assembly panel shall be the meter box and meter, a main breaker box with ground and a controller cabinet. The controller cabinet shall contain surge protector, lighting arrester, circuit breaker box for all circuits, on/off switches for interior lights and the pump, a photocell switch for the area light, a low–water shutoff for the pump and various pump alarms.
14. See the detailed plan drawings and supplemental specifications for more detailed information on the power and control equipment.
15. Interior lighting shall be wall mounted, weather proof area lights with 120 V LED light source. Fixtures shall provide well–lit coverage of the entire structure interior. Fixtures shall be item LED–AD40L as provided by Outdoor Lighting Perspectives, phone 1–800–447–1112, or approved equal.
16. Area light shall be a pole mounted 120 V LED fixture with a minimum of 140 W. Fixture shall be item MLAR 140LED SO as manufactured by Maxlife and provided by Prolighting, 12581 Grand River Rd., Brighton, MI 48116, phone 1–800–229–5600, or approved equal. Fixture shall include all pole mounting accessories.
17. Should Westar Energy supply power underground to the site, the power would connect to the control panel assembly via underground conduit. In this case, the area light will need to be mounted on a separate steel pole provided and installed by the Electrical Contractor. See plan drawings for details of pole, base, light and wiring.

Note: Pole w/ Weatherhead is to be used if Westar Energy proposes to provide 120/240V 1PH power in overhead lines. Alternate for underground Westar Energy power would be RGC Power Conduit underground to Westar Energy connection point. If wood pole is not used, an alternate steel pole will be used to mount LED area light fixture. See Detail this sheet.

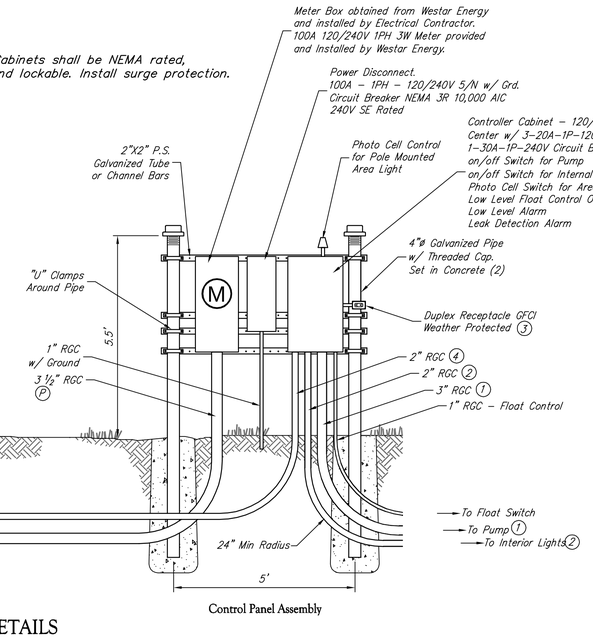


Power Pole Connection

CIRCUIT LEGEND		
CIRCUIT NO.	AMP	DESCRIPTION
1	30	Sump Pump – 240V, 1PH 3–#8 & 1–#8 Gr. in 2" RGC
2	20	Interior Lights – 120V, 1PH 2–#10 & 1–#10 Gr in 2" RGC
3	20	Power Outlet – 120V, 1PH 2–#10 & 1–#10 Gr in 2" RGC
4	20	Pole Area Light – 120V, 1PH 2–#10 & 1–#10 Gr in 2" RGC

Note: All Boxes and Cabinets shall be NEMA rated, weather proof and lockable. Install surge protection.

Note: 24" Min. Radius on Conduit Bends. Burry Depth 24" Min. 36" Max.



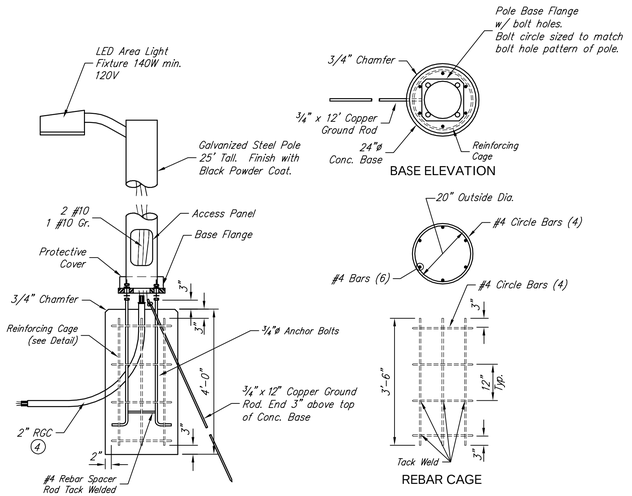
Control Panel Assembly

LEGEND:

- (1) – Circuit Number
- Conduit Run – Wall Mounted
- Conduit Run – underground (24" Min. Depth)
- RGC – Rigid Galvanized Conduit
- (P) – Power Line in Conduit
- OHE – Power Line by Westar Energy
- Wood Power Pole
- Pole mounted LED Area Light
- Wall Mounted LED Light Fixture
- Submersible Pump (7.5 H.P.)
- Duplex Receptacles GFCI (120v)
- Control Panel Cabinet
- (M) – Meter
- /// – No. of Power & Ground in Conduit

POWER CONTROL DETAILS

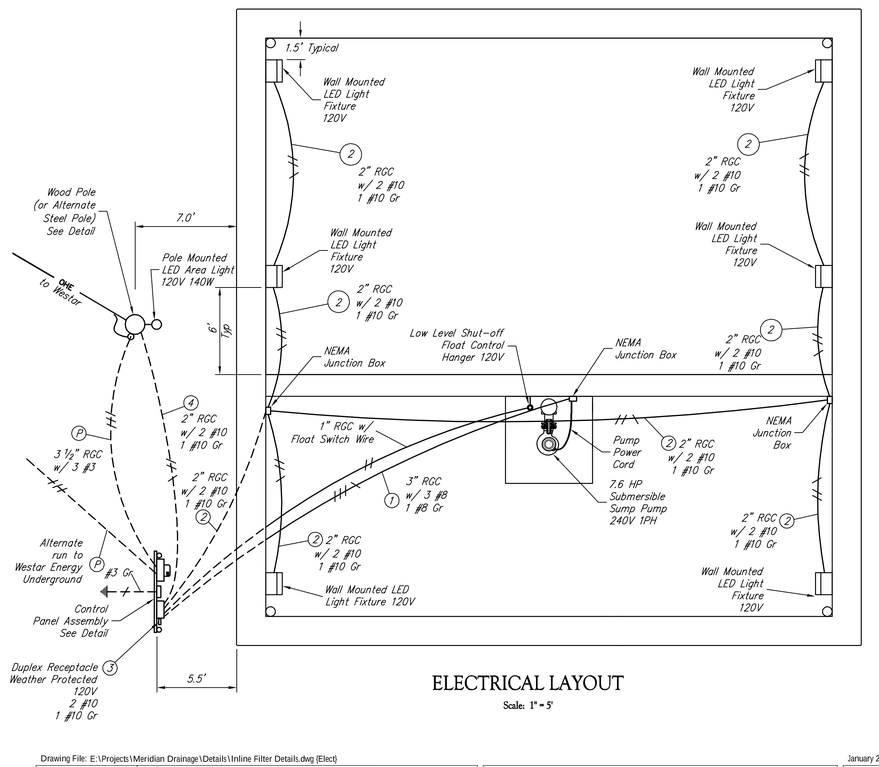
Scale: 1" = 2'



ALTERNATE STEEL POLE MOUNTED AREA LIGHT

Scale: 1" = 2'

NOTE:-
1. The anchor bolts for the pole shall be tack welded together in a bolt pattern to match pole base flange.
2. Use anti–seize compound on all threads.
3. Ground rod to be positioned before pouring base.
4. Class 'A' Concrete shall be used to construct base.
5. Conduit shall have plastic or galvanized bushing above base.



ELECTRICAL LAYOUT

Scale: 1" = 5'

Drawing File: E:\Projects\Meridian Drainage\Details\Inline Filter Details.dwg {Elect}

January 2013

Design:	KEK
Drawn:	JAK
Approved:	JFB
Scale:	NOTED

Project No. 080Z-E038 CAPITAL IMPROVEMENT PROJECT

DEBRIS REMOVAL STRUCTURE
ELECTRICAL PLAN

MERIDIAN AVENUE DRAINAGE OUTFALL PROJECT

Baughman Company, P.A.
315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
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