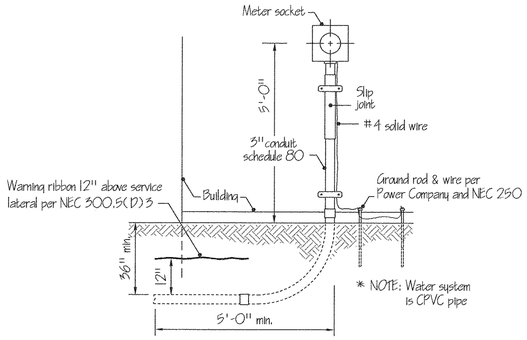
LOAD CENTER
VOLTAGE: 240/120V
SERVICE FEEDER SIZE: 3-#4/0 & 1-#4 GROUNDING CONDUCTOR

Circuit No.	Circuit Breakers Poles	Circuit Breakers Amps	200 AMP Main Service Breaker	Wiring No./ Size
1,3	2	50	220 Volt Outlet (Welder)	3 - #6
2,4	2	30	220 Volt Outlet (Air compressor)	3 - #10
5,7	2	20	Water Pump	3 - #12
6,8	2	30	Water Heater	3 - #10
9,11	2	40	Outside Unit	3 - #8
10,12	2	60	Inside Air Handler Heat strips	3 - #6
13,15	2	30	Inside Air Handler	3 - #10
14	2	20	Shop Receptacles w/ GFIC protection	3 - #12
16	2	20	Shop Receptacles w/ GFIC protection	3 - #12
17	1	20	Work Shop General Lighting	2 - #12
18	1	20	Exit Lighting	2 - #12
19	1	20	Utility GFI Receptacles	2 - #12
20	1	20	Office, Restroom, Mech Lighting & Washer recpt	2 - #12
21	1	20	Implement Storage Lighting	2 - #12
22	1	20	Implement Storage Receptacles	2 - #12
23	1	20	Implement Storage Receptacles	2 - #12
24	1	20	Office Receptacles	2 - #12
25	1	20	Office Receptacles	2 - #12
26	1	20	Break, Restroom GFI Receptacles	2 - #12
27	1	20	Spare Breaker	
28	1	20	Shop Exterior GFI Receptacle	2 - #12
29	1	20	Spare Breaker	
30,32	2	30	Mechanical room Dryer receptacle	3 - #10
31	1	20	Spare Breaker	
33-40			Spare Spaces	

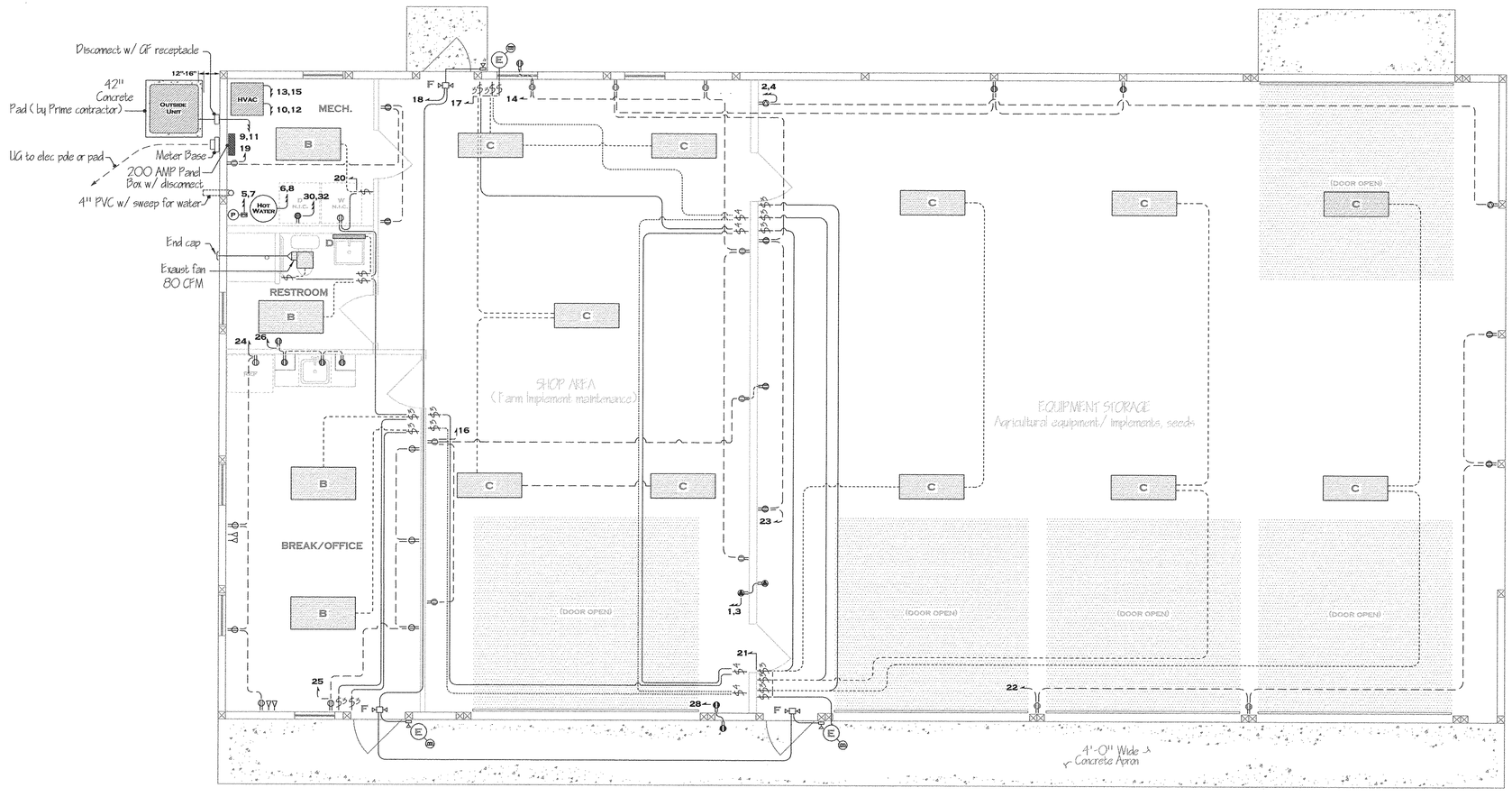
ELECTRICAL WIRING SYMBOLS

- GFI Receptacle
- Duplex Outlet, Split Circuit
- Duplex Outlet
- 50 Amp, 220 Volt Outlet
- 30 Amp, 220 Volt Outlet
- 30 Amp, 220 Volt Outlet (Dryer)
- Home Run/ Circuit #
- (WH) Water Heater
- Telecommunications Outlet
- (J) Junction Box
- (PE) Photo Cell
- Exit lighting w/ batteries
- $ Switch
- $3 Switch, 3 Way
- $4 Switch, 4 Way
- (PS) Pressure Switch
- (P) Water Pump

MARK	QTY	LIGHTING SCHEDULE	MODEL
A	0	16.75" x 4' Surface Mount, 4 Lamp Electriconic Ballast, Instant Start	LITHONIA 5R432MVOLTGEB10IS
B	9	2' x 4' Grid Troffer, 3 Lamp, Electriconic Ballast	LITHONIA 2SP3G32BTS
C	11	18" x 4' Industrial Fixture, 4 Lamp, Electriconic Ballast	LITHONIA IBZ 454WD
D	1	2' Fluorescent wall maint	LITHONIA 1189ORE
E	3	Security motion, Wall Maint./ Outside Unit	HEATH ZENITH SL-5650-BZ
F	3	Combination Exit and Emergency light w/ batteries & remote head (3)	UTILITECH LWSPXCURW or equivalent



SERVICE DETAIL
NOT TO SCALE



PLAN VIEW
SCALE: 1/ 4" = 1'-0"

Trench Details – Direct Buried Cables

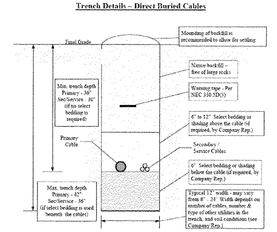
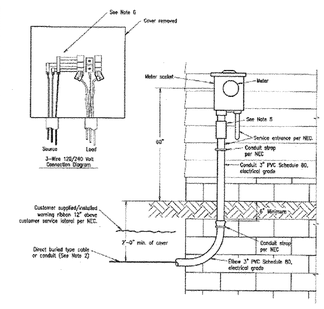


TABLE - MINIMUM COVER REQUIRED PER CODE (INCHES).

Owner / Code	Customer Installed Facilities / NEC (1)				Company / NESC
Voltage (Ø - Ø)	Direct Buried	Rigid Metallic Conduit (RMC)	Rigid Nonmetallic Conduit (RNC)	Street / Road Parking Lot (2)	Direct Buried
0 – 600 V	24	6	18	24	24
> 600 V - 22 kV	30	6	18	24	30
> 22 kV – 40 kV	36	6	24	24	30

Notes: (1) FEOC typically requires an additional 6 inches of cover to allow for variation in final grade.
(2) For cables located beneath roads under Penn DOT jurisdiction, cables must be installed in conduit and have a minimum of 36 inches of cover.

TRENCH DETAILS FOR DIRECT BURIED CABLES	FirstEnergy Service Guide	REV 0
	EXHIBIT 23	DATE 11/02



NOTES:

1. For customer/Company responsibilities, see Exhibit 1.
2. For trenching and conduit details, see Exhibit 24.
3. See Section 6.0 for underground service details.
4. Meter socket may be connected to external ground rods, if required by the local inspection authorities.
5. The customer shall provide a well tamped and firm trench (see Exhibit 24). The customer shall provide ground movement protection per NEC 300.5(J) to prevent damage due to settlement or frost heaves. The Company recommends that the customer use a slip-joint conduit product. Additionally, sufficient slack or a slack box should be provided by the customer to allow for cable movement. For a 3-inch dia. conduit installation, the Company recommends that the customer install a slip joint with an attached slack box.
6. Side-bussed meter socket only.

TYPICAL SINGLE-PHASE UNDERGROUND SERVICE LATERAL INSTALLATION 400 AMP OR LESS	FirstEnergy Service Guide	REV 0
PA	EXHIBIT 8	DATE 7/14

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
FOSTER R. SCHAFFER
ENGINEER
PE-039260-E
1/4/18

PENNSYLVANIA GAME COMMISSION

STATE GAME LANDS 216	SCOTT TWP.	LAWRENCE CO.

ELECTRIC DETAILS

REVISIONS

PROJECT NO.	PGC-216-18-1
DRAWING NO.	216-ELECTRIC
DRAWN BY:	JBM
DATE:	12-18-17
SHEET NO.	5 OF 5