

LCC Panel Schedule													
Location: Equipment Rack Volts: 120/240 Phase 1 Wire: 3 Hertz: 60													
MCB: 100A Main AIC: (See Note 3) Branch AIC: (See Note 3) ENCL. (NEMA): 3R MTG: Surface													
100 Amp, 24 Space, Ground Bar, Locking Cover, Panel Card.													
Description of Load Served	Wire Size	Breaker		A/Phase		CKT No.	CKT No.	A/Phase		Breaker		Wire Size	Description of Load Served
		Pole	Amp	A	B			A	B	Amp	Pole		
Lighting - SB South Main Street and Walnut Street	#8	2	20	3.6	2.9	1	2	5.0	5.1	20	2	#8	Lighting - NB South Main Street and EB Main Street
Receptacle - SB South Main Street and Walnut Street	#8	2	20	6.0	4.5	5	6	6.0	4.5	20	2	#8	Receptacles - NB South Main Street and EB Main Street
Lighting - East Main Street and NB Vance Street	#4	2	20	6.3	4.8	9	10	3.6	2.6	20	2	#8	Lighting - SB Vance Street
Receptacles - East Main Street and NB Vance Street	#4	2	20	7.5	6.0	13	14	6.0	6.0	20	2	#4	Receptacle - SB Vance Street
Spare		2	20	-	-	17	18	-	-	20	2		Spare
Space				-	-	19	20	-	-				Space
Space				-	-	21	22	-	-				Space
Space				-	-	23	24	-	-				Space
Total A/Phase				23.4	18.2			20.6	18.2	Total A/Phase			

Notes:
 1. Connected KVA: 9.6
 2. Demand KVA: 12.1
 3. Contractor shall perform a short circuit analysis to determine the required minimum AIC rating of the panel and breakers.

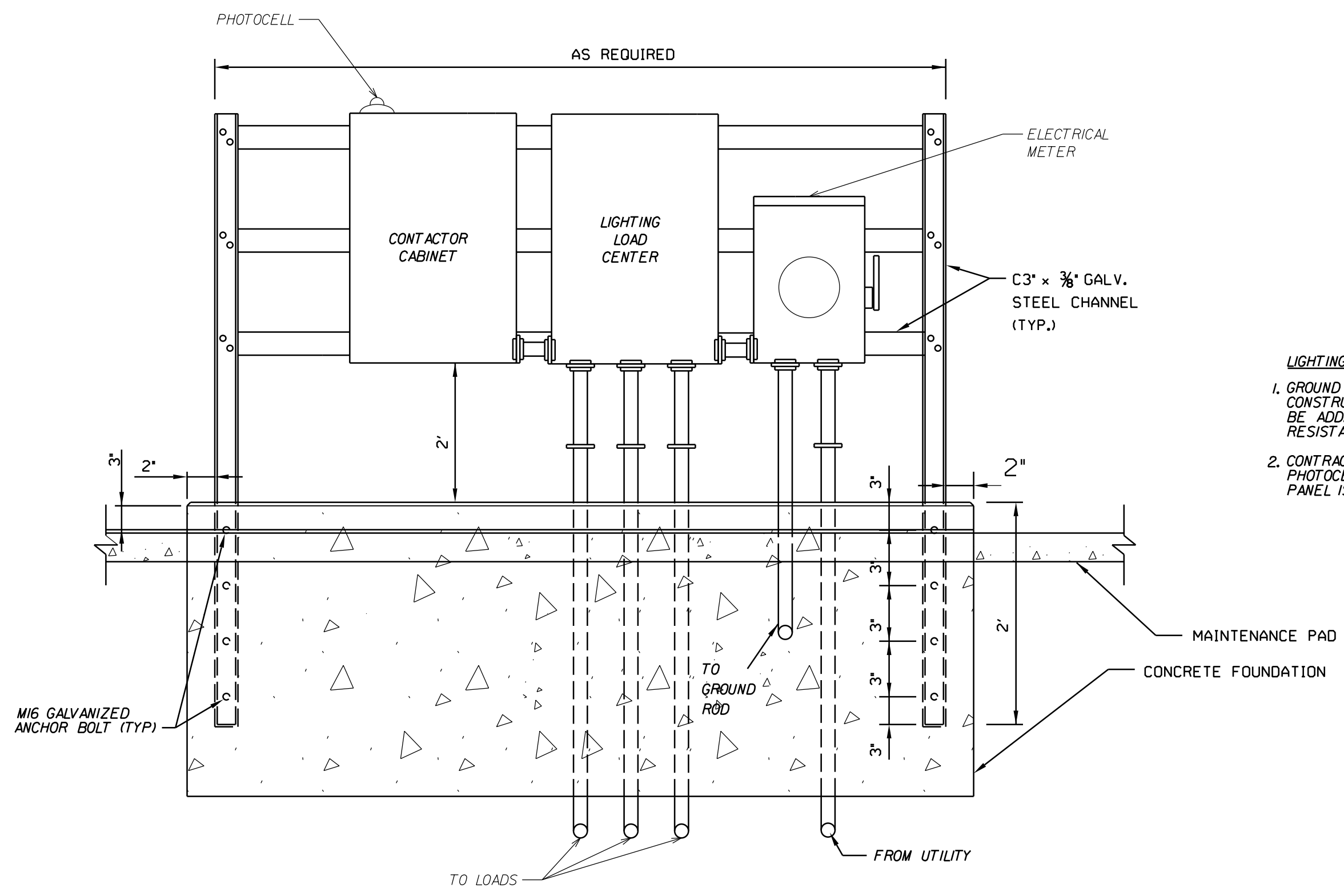
CONDUIT & CONDUCTOR SCHEDULE

CALLOUT	CONDUIT SIZE	CONDUIT TYPE*	AWG**	
			#4	#8
1	2"	P	-	5
2	2"	P	-	7
3	2"	H	-	7
4	2"	P	5	-
5	2"	P	7	-
6	2"	H	7	-
7	2"	H	7	4
8	2"	P	7	4
9	2"	P	7	6
10	2"	H	7	6
11	2"	H	-	7
	2"	H	7	6
12	2"	P	3	2
13	2"	P	4	3
14	2"	H	4	3
15	2"	P	4	9
16	2"	P	4	9
	2"	P	-	7
	2"	P	7	6

* P = PVC (Trenched)
 H = HDPE (Bored)
 E = Existing

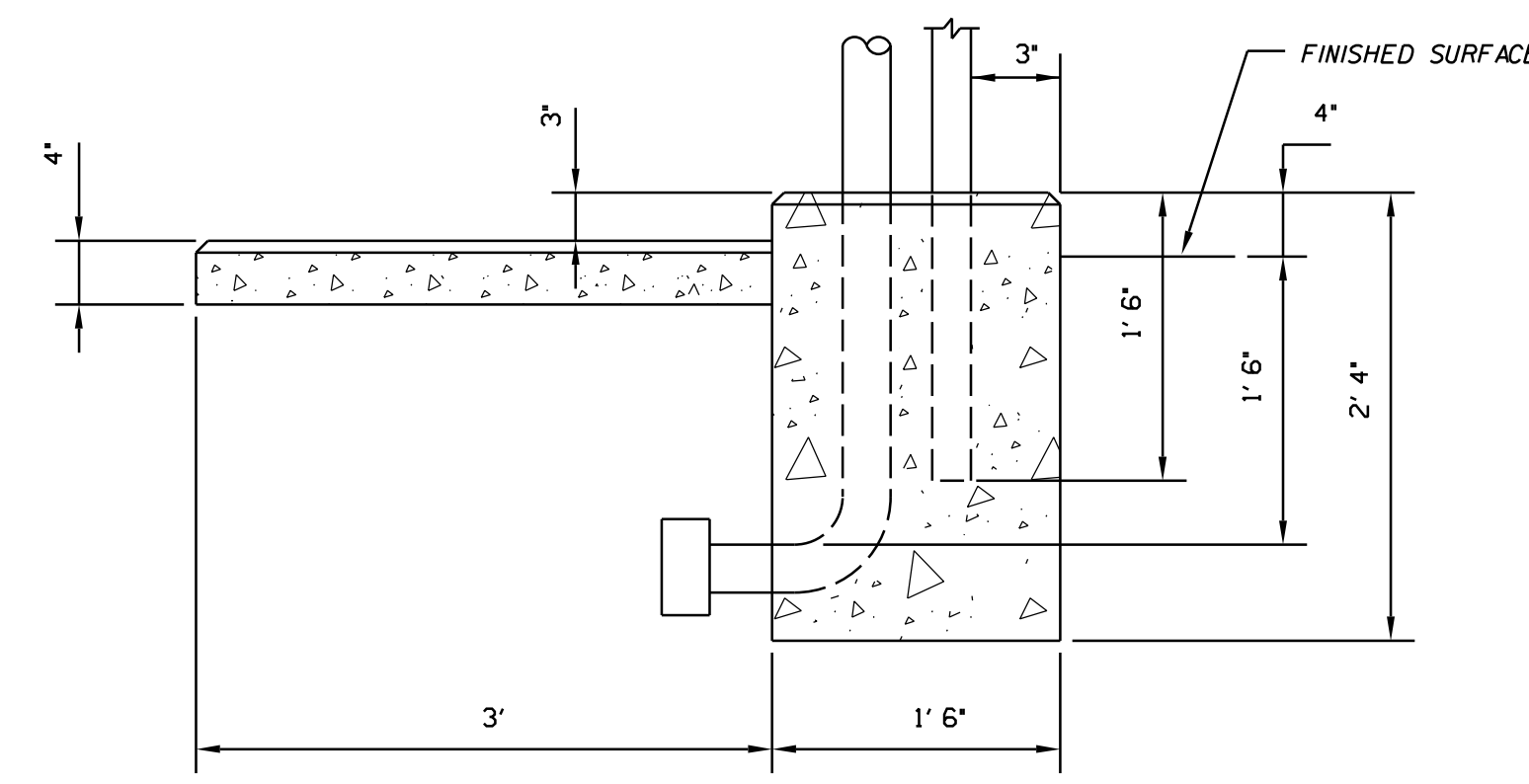
** EACH CONDUIT SHALL CONTAIN ONE SHARED EQUIPMENT GROUNDING CONDUCTOR (EGC). EGC IS INCLUDED IN THE CONDUCTOR QUANTITIES ABOVE AND IS SIZED TO MATCH THE LARGEST CIRCUIT WIRE SIZE PER NEC.

REVISIONS



LIGHTING CONTROL CENTER
NOT TO SCALE

LIGHTING CONTROL CENTER NOTES:
 1. GROUND ROD SHALL BE 5/8" x 10' COPPER CLAD CONSTRUCTION. ADDITIONAL GROUND RODS SHALL BE ADDED AS REQUIRED TO MEET NEC GROUND RESISTANCE REQUIREMENTS.
 2. CONTRACTOR SHALL WIRE THE CONTACTOR AND PHOTOCELL SUCH THAT THE ENTIRE ELECTRICAL PANEL IS CONTACTED BY THE PHOTOCELL.



CONCRETE MAINTENANCE PAD SHALL BE INSTALLED ON THE FRONT OF CONTROL SIDE OF FOUNDATION
 LIGHTING CONTROL CENTER FOUNDATION DETAIL
 NOT TO SCALE

- NOTES:
- ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 0.75".
 - GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF METAL CONDUITS
 - BELL ENDS SHALL BE INSTALLED ON THE ENDS OF PVC CONDUITS.
 - CITY OF WAYNESVILLE WILL INSTALL SERVICE CABLE FROM POWER SOURCE TO THE METER BASE.
 - ELECTRICAL EQUIPMENT SHALL BE ATTACHED TO THE STRUCTURAL SUPPORTS WITH #9 GALVANIZED BOLTS, LOCK WASHERS, AND NUTS.
 - EACH FOUNDATION SHALL BE PERMANENTLY MARKED TO INDICATE ALL SIDES FROM WHICH CONDUITS PASS. THIS MARK SHALL BE MADE WITH A TROWEL WHEN FINISHING THE CONCRETE AND SHALL BE 1/4" DEEP AND 4" TO 3" LONG.