

❖ PROJECT TITLE PROJECT NAME: LIGHT BRIDGE ACADEMY	
❖ ADDRESS ADDRESS: W POWELL RD & FARMINGTON AVE. LIBERTY TOWNSHIP, OH 43065	
PROJECT ID: 11126	

SR	DRAWING NO	DETAILS	CSI NO	DESCRIPTION	QTY.	UNIT	WASTAGE	QTY WITH WASTAGE	\$/UNIT MAT.	\$/UNIT LAB.	\$/UNIT MAT.	TOTAL LAB.	TOTAL COST
			260000	DIVISION 26 - ELECTRICAL									
				ELECTRICAL GENERAL REQUIREMENTS									
1				Temporary Lighting And Power	1	LS	0%	1	\$ -	\$ -	\$ -	\$ -	\$ -
2				Testing	1	LS	0%	1	\$ -	\$ -	\$ -	\$ -	\$ -
				GROUNDING AND BOUNDING FOR ELECTRICAL SYSTEM									
3				Grounding And Bounding For Electrical System	1	LS	0%	1	\$ 6,000.00	\$ 2,000.00	\$ 6,000.00	\$ 2,000	\$ 8,000.00
				HANGER AND SUPPORT FOR ELECTRICAL SYSTEM									
4				Hanger And Support For Electrical System	1	LS	0%	1	\$ 2,000.00	\$ 500.00	\$ 2,000.00	\$ 500	\$ 2,500.00
			260519	LOW VOLTAGE POWER CONDUCTORS AND CABLES									
				Cable And Conduit For Site Lighting Fixture: - 2#12AWG + 1#12G - 2" C									
5	E301			#12 AWG THHN	1080	LF	10%	1188	\$ 0.50	\$ 2.20	\$ 594.00	\$ 2,614	\$ 3,207.60
6				3/4" EMT Conduit	360	LF	10%	396	\$ 1.36	\$ 3.98	\$ 538.56	\$ 1,576	\$ 2,114.64
				Cable And Conduit For Lighting Fixture:									
7				#12 AWG THHN	3000	LF	10%	3300	\$ 0.50	\$ 2.20	\$ 1,650.00	\$ 7,260	\$ 8,910.00
8	E301-E302			#6 AWG THWN	1080	LF	10%	1188	\$ 1.12	\$ 3.54	\$ 1,330.56	\$ 4,206	\$ 5,536.08
9				3/4" EMT Conduit	1000	LF	10%	1100	\$ 1.36	\$ 3.98	\$ 1,496.00	\$ 4,378	\$ 5,874.00
10				1" EMT Conduit	360	LF	10%	396	\$ 1.80	\$ 4.54	\$ 712.80	\$ 1,798	\$ 2,510.64
				Feeder From Utility XFMR to MSBD MSB: - 5 Sets of (4#500 KCMIL + 1#3/0 G - 4" C)									
11				#500 KCMIL XHHW	800	LF	10%	880	\$ 38.22	\$ 14.16	\$ 33,633.60	\$ 12,461	\$ 46,094.40
12	E101			#3/0 AWG XHHW	200	LF	10%	220	\$ 1.40	\$ 3.98	\$ 308.00	\$ 876	\$ 1,183.60
13				4" PVC Conduit	200	LF	10%	220	\$ 4.36	\$ 7.25	\$ 959.20	\$ 1,595	\$ 2,554.20
				Feeder from MSBD MSB to SWBD HDP1: - 4 Set of (4#500 KCMIL + 1#3/0 G - 4" C)									
14				#500 KCMIL XHHW	1600	LF	10%	1760	\$ 38.22	\$ 14.16	\$ 67,267.20	\$ 24,922	\$ 92,188.80
15	E201			#3/0 AWG XHHW	400	LF	10%	440	\$ 1.40	\$ 3.98	\$ 616.00	\$ 1,751	\$ 2,367.20
16				4" EMT Conduit	400	LF	10%	440	\$ 5.77	\$ 8.94	\$ 2,538.80	\$ 3,934	\$ 6,472.40
				Feeder from SWBD HDP1 to XFMR X1: - 3#4 AWG + 1#8 G - 1" C									
17				#4 AWG THHN	60	LF	10%	66	\$ 1.36	\$ 3.75	\$ 89.76	\$ 248	\$ 337.26
18	E201			#8 AWG THHN	20	LF	10%	22	\$ 0.92	\$ 2.86	\$ 20.24	\$ 63	\$ 83.16
19				1" EMT Conduit	20	LF	10%	22	\$ 1.80	\$ 4.54	\$ 39.60	\$ 100	\$ 139.48
				Feeder from XFMR X1 to Panel L1: - 4#2/0 AWG + 1#4 G - 2" C									
20				#2/0 AWG XHHW	40	LF	10%	44	\$ 1.42	\$ 4.00	\$ 62.48	\$ 176	\$ 238.48
21	E201			#4 AWG XHHW	10	LF	10%	11	\$ 1.36	\$ 3.76	\$ 14.96	\$ 41	\$ 56.32
22				2" EMT Conduit	10	LF	10%	11	\$ 3.54	\$ 5.00	\$ 38.94	\$ 55	\$ 93.94
				Feeder from SWBD HDP1 to Panel H1: - 4#2/0 AWG + 1#4 G - 2" C									
23				#2/0 AWG XHHW	40	LF	10%	44	\$ 1.42	\$ 4.00	\$ 62.48	\$ 176	\$ 238.48
24	E201			#4 AWG XHHW	10	LF	10%	11	\$ 1.36	\$ 3.76	\$ 14.96	\$ 41	\$ 56.32
25				2" EMT Conduit	10	LF	10%	11	\$ 3.54	\$ 5.00	\$ 38.94	\$ 55	\$ 93.94
				Feeder from SWBD HDP1 to SWBD HDP2: - 3 Set of (4#400 KCMIL + 1#250 KCMIL G - 3" C)									
26				#400 KCMIL XHHW	160	LF	10%	176	\$ 25.16	\$ 10.20	\$ 4,428.16	\$ 1,795	\$ 6,223.36
27	E201			#250 KCMIL XHHW	60	LF	10%	66	\$ 14.92	\$ 8.30	\$ 984.72	\$ 548	\$ 1,532.52
28				3" EMT Conduit	60	LF	10%	66	\$ 4.86	\$ 6.85	\$ 320.76	\$ 452	\$ 772.86
				Feeder from SWBD HDP1 to Panel M: - 4#300 KCMIL + 1#2 G - 3" C									
29				#300 KCMIL XHHW	160	LF	10%	176	\$ 18.95	\$ 12.20	\$ 3,335.20	\$ 2,147	\$ 5,482.40
30	E203			#2 AWG XHHW	40	LF	10%	44	\$ 1.30	\$ 3.52	\$ 57.20	\$ 155	\$ 212.08
31				3" EMT Conduit	40	LF	10%	44	\$ 4.86	\$ 6.85	\$ 213.84	\$ 301	\$ 515.24
				Feeder from Panel M1 to XFMR XM: - 3#1 AWG + 1#6 G - 1 1/2" C									
32				#1 AWG XHHW	30	LF	10%	33	\$ 1.28	\$ 3.45	\$ 42.24	\$ 114	\$ 156.09
33	E201			#6 AWG XHHW	10	LF	10%	11	\$ 1.14	\$ 3.20	\$ 12.54	\$ 35	\$ 47.74
34				1 1/2" EMT Conduit	10	LF	10%	11	\$ 2.48	\$ 4.60	\$ 27.28	\$ 51	\$ 77.88
				Feeder from XFMR XM to Panel ML: - 4#300 KCMIL + 1#2 G - 3" C									
35				#300 KCMIL XHHW	40	LF	10%	44	\$ 18.95	\$ 12.20	\$ 833.80	\$ 537	\$ 1,370.60
36	E201			#2 AWG XHHW	10	LF	10%	11	\$ 1.25	\$ 3.60	\$ 13.75	\$ 40	\$ 53.35
37				3" EMT Conduit	10	LF	10%	11	\$ 4.86	\$ 6.85	\$ 53.46	\$ 75	\$ 128.81
				Feeder from SWBD HDP1 to RTU-1: - 4#500 KCMIL + 1#1 G - 4" C					\$ -	\$ -			
38				#500 KCMIL XHHW	240	LF	10%	264	\$ 38.22	\$ 14.16	\$ 10,090.08	\$ 3,738	\$ 13,828.32
39	E201			#1 AWG XHHW	60	LF	10%	66	\$ 1.28	\$ 3.60	\$ 84.48	\$ 238	\$ 322.08
40				4" EMT Conduit	60	LF	10%	66	\$ 5.77	\$ 8.94	\$ 380.82	\$ 590	\$ 970.86
				Cable And Conduit For Receptacles:									
41				#12 AWG THHN	1770	LF	10%	1947	\$ 0.50	\$ 2.20	\$ 973.50	\$ 4,283	\$ 5,256.90
42	E201-E203			#12 AWG THWN	510	LF	10%	561	\$ 0.50	\$ 2.20	\$ 280.50	\$ 1,234	\$ 1,514.70
43				3/4" EMT Conduit	760	LF	10%	836	\$ 1.36	\$ 3.98	\$ 1,136.96	\$ 3,327	\$ 4,464.24
				Cable And Conduit For Mechanical Equipments:									
44				#12 AWG THHN	2780	LF	10%	3058	\$ 0.50	\$ 2.20	\$ 1,529.00	\$ 6,728	\$ 8,256.60
45				#10 AWG THHN	50	LF	10%	55	\$ 0.70	\$ 2.80	\$ 38.50	\$ 154	\$ 192.50
46				#8 AWG THHN	40	LF	10%	44	\$ 0.95	\$ 3.60	\$ 41.80	\$ 158	\$ 200.20
47	E201-E203			#4 AWG THHN	120	LF	10%	132	\$ 1.28	\$ 4.45	\$ 168.96	\$ 587	\$ 756.36
48				3/4" EMT Conduit	910	LF	10%	1001	\$ 1.36	\$ 3.98	\$ 1,361.36	\$ 3,984	\$ 5,345.34
49				1 1/4" EMT Conduit	40	LF	10%	44	\$ 2.25	\$ 4.14	\$ 99.00	\$ 182	\$ 281.16
50				6" SCH 40 PVC Conduit	120	LF	10%	132	\$ 5.30	\$ 7.60	\$ 699.60	\$ 1,003	\$ 1,702.80
			260534	BOXES FOR ELECTRICAL SYSTEMS									
51	E201,E202			Junction Box	9	EA	0%	9	\$ 68.00	\$ 75.00	\$ 612.00	\$ 675	\$ 1,287.00

[illegible]

94	E301,E302		Type 'F11' Lighting Fixture - PENTHOUSE WALL MOUNT LED LIGHTING FIXTURE Manufacturer: NATIONAL LIGHTING SOLUTIONS Cat# LTS-1-T3-32L-53-40K-UNV-WM-BRZ-PC	4	EA	0%	4	\$ 200.00	\$ 132.00	\$ 800.00	\$ 528	\$ 1,328.00
95	E301,E302		Type 'F12' Lighting Fixture - 4' WALL MOUNT LED LINEAR FIXTURE WITH EM BATTERY PACK Manufacturer: LITE CONTROL Cat# 3LWD-04-SOF-C1-35K-D070-NDM-1C-UNV-ICP7	3	EA	0%	3	\$ 206.00	\$ 136.00	\$ 618.00	\$ 408	\$ 1,026.00
96	E301,E302		Type 'SF1' Lighting Fixture - POLE MOUNTED LED LIGHTING FIXTURE Manufacturer: NATIONAL LIGHTING SOLUTIONS Cat# VUE-1-T3-32L-53-30K-UNV-DPS10-BRZ	1	EA	0%	1	\$ 254.00	\$ 145.00	\$ 254.00	\$ 145	\$ 399.00
97	E301,E302		Type 'SF2' Lighting Fixture - POLE MOUNTED LED LIGHTING FIXTURE Manufacturer: NATIONAL LIGHTING SOLUTIONS Cat# VUE-1-T4-48L-53-30K-UNV-DPS10-BRZ	3	EA	0%	3	\$ 254.00	\$ 145.00	\$ 762.00	\$ 435	\$ 1,197.00
98	E301,E302		Type 'EG' Lighting Fixture - LED EGRESS LIGHTING FIXTURE Manufacturer: HUBBELL Cat# CUWZ-HTR-PC	2	EA	0%	2	\$ 195.00	\$ 132.00	\$ 390.00	\$ 264	\$ 654.00
99	E301,E302		Type 'EX1' Lighting Fixture - SINGLE-FACE EXIT SIGN WITH EMERGENCY BATTERY PACK Manufacturer: ISOLITE Cat# LPDCEMGS-WW-UN	8	EA	0%	8	\$ 148.00	\$ 118.00	\$ 1,184.00	\$ 944	\$ 2,128.00
100	E301,E302		Type 'EX2' Lighting Fixture - DOUBLE-FACE EXIT SIGN WITH EMERGENCY BATTERY PACK Manufacturer: ISOLITE Cat# LPDCEMGD-WW-UN	1	EA	0%	1	\$ 165.00	\$ 120.00	\$ 165.00	\$ 120	\$ 285.00
101	E301,E302		20' HIGH SITE LIGHTING POLE Manufacturer: NATIONAL LIGHTING SOLUTIONS Cat# SSSP-20-4S-11G-9BC-SGL-BRZ-3430	4	EA	0%	4	\$ 1,875.00	\$ 800.00	\$ 7,500.00	\$ 3,200	\$ 10,700.00
102	E301,E302		Type 'F8B' Lighting Fixture - 2' LINEAR LED LIGHTING FIXTURE	2	EA	0%	2	\$ 225.00	\$ 145.00	\$ 450.00	\$ 290	\$ 740.00
103	E301,E302		2' Dia X 4'-2" Long Pole Foundation	4	EA	0%	4	\$ 196.00	\$ 132.00	\$ 784.00	\$ 528	\$ 1,312.00
			Subtotal									
			394,246.93									
		270000	DIVISION 27 - COMMUNICATIONS									
		270500	COMMON WORK RESULTS FOR COMMUNICATIONS									
104	E201,E202		Plywood Backboard	2	EA	0%	2	\$ 145.00	\$ 65.00	\$ 290.00	\$ 130	\$ 420.00
105	E201		Tele/Data Outlet	1	EA	0%	1	\$ 110.00	\$ 54.00	\$ 110.00	\$ 54	\$ 164.00
106	E101		Telephone Pedestal	1	EA	0%	1	\$ 256.00	\$ 120.00	\$ 256.00	\$ 120	\$ 376.00
			COMMUNICATION CABLE AND CONDUIT									
107	E101		4" SCH 40 PVC W/ Pull Strig And RGS Sweep	300	LF	10%	330	\$ 4.36	\$ 6.85	\$ 1,438.80	\$ 2,261	\$ 3,699.30
			Subtotal									
			4,659.30									
		280000	DIVISION 28 - ELECTRONIC SAFETY AND SECURITY									
		283100	FIRE ALARM SYSTEM									
108	E201		Fire Alarm Annunciator Panel	1	EA	0%	1	\$ 525.00	\$ 222.00	\$ 525.00	\$ 222	\$ 747.00
109	E201		Fire Alarm Control Panel	1	EA	0%	1	\$ 910.00	\$ 400.00	\$ 910.00	\$ 400	\$ 1,310.00
110	E201		Fire Alarm Horn/Strobe	4	EA	0%	4	\$ 222.00	\$ 100.00	\$ 888.00	\$ 400	\$ 1,288.00
111	E201		Fire Alarm Manual Pull Station	3	EA	0%	3	\$ 145.00	\$ 65.00	\$ 435.00	\$ 195	\$ 630.00
112	E201		Fire Alarm Strobe	2	EA	0%	2	\$ 185.00	\$ 100.00	\$ 370.00	\$ 200	\$ 570.00
113	E201		Smoke Detector	6	EA	0%	6	\$ 300.00	\$ 125.00	\$ 1,800.00	\$ 750	\$ 2,550.00
			FIRE ALARM CABLE AND CONDUIT									
114	E201		2#14 Fire Alarm Cable And Conduit	260	LF	10%	286	\$ 0.42	\$ 2.00	\$ 120.12	\$ 572	\$ 692.12
			Subtotal									
			7,787.12									
		310000	DIVISION 31 - EARTHWORK									
			EXCAVATION & BACKFILL									
115	E101		Excavation - 20% Fluff Factor Added	382.8	CY	10%	421.08	\$ -	\$ 16.30	\$ -	\$ 6,864	\$ 6,863.60
116	E101		Backfill	145.96	CY	10%	160.556	\$ -	\$ 20.95	\$ -	\$ 3,364	\$ 3,363.65
			Subtotal									
			10,227.25									
			Total									
			409,133.48									
			Insurance(5%)									
			20,456.67									
			Contingency(7%)									
			28,639.34									
			Overheads(10%)									
			40,913.35									
			Profit(10%)									
			40,913.35									
			Grand Total									
			540,056.20									