

Milwaukee Street Lighting Master Control System

Pay Item Tabulation

Note: The Contractor shall complete the following table as a part of the Bid Form. The costs presented by the Contractor shall be used as a basis of established pricing. Should field conditions dictate an adjustment to these quantities, the Contractor's awarded contract amount shall be adjusted up or down based upon the cost presented in this tabulation. The Material cost per unit and labor cost per unit shall include the contractor's overhead, profit and other costs deemed required by the contract. The Contractor's Total Base Bid shall be inclusive of all the items in this list, all work and non listed materials required by the Contract Documents to fully complete project, and all other work and materials deemed necessary by the Contractor.

No.	Pay Item	Specification Reference	Drawing Reference	Qty.	Unit	Material Cost per Unit:	Labor Cost per Unit:	Total = Qty. x (Mat. +Lab.)
1a	ANTENNA - LIGHT POLE MOUNT	17350	ED-01	14	EA.			
	(Furnish and install antenna including but not limited to; pole mounting straps, connectors, lightning arrestors, and ancillary equipment)							
	Total for this item written in words							
1b	ANTENNA - ROOF-TOP MOUNT	17350	ED-08	1	EA.			
	(Furnish and install antenna including but not limited to; pole mounting straps, connectors, lightning arrestors, and ancillary equipment)							
	Total for this item written in words							
1c	ANTENNA - REPLACEMENT	17350	CM-01	1	EA.			
	(Furnish and install antenna to replace existing antenna mounted at FH28, including but not limited to; pole mounting straps, connectors, and ancillary equipment)							
	Total for this item written in words							
2a	RTU - WALL/VAULT MOUNT	16135	ED-02	3	EA.			
	(Furnish and install complete wall mounted RTU panel (less PLC and radio) including but not limited to; enclosure, panel contents, mounting devices, and ancillary equipment)							
	Total for this item written in words							
2b	RTU - TRASCLOSURE MOUNT	16135	ED-03	8	EA.			
	(Furnish and install complete transclosure mounted RTU equipment/panel (less PLC and radio) including but not limited to; enclosure, panel contents, mounting devices, and ancillary equipment)							
	Total for this item written in words							
2c	RTU - POLE MOUNT - DT-RTU-04	16135	ED-04	1	EA.			
	(Furnish and install complete Hub site RTU panel (less PLC and radio) including but not limited to; enclosure, panel contents, mounting devices, and ancillary equipment)							
	Total for this item written in words							
3	RADIO	17350	ED-01 to ED-05	15	EA.			
	(Furnish and install radio mounted in RTU panel)							
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4a	PLC - HUB SITE	13451	ED-09	1	EA.			
	(Furnish and install PLC, PLC rack and ancillary cables mounted in RTU panel)							
	Total for this item written in words							
4b	PLC - HUB DIGITAL INPUT CARD	13451	ED-01 to ED-05	1	EA.			
	(Furnish and install PLC card mounted in PLC)							
	Total for this item written in words							
4c	PLC - REMOTE SITE	13451	ED-01 to ED-05	12	EA.			
	(Furnish and install PLC and ancillary cables mounted in RTU panel)							
	Total for this item written in words							
4d	PLC - REMOTE ANALOG INPUT CARD	13451	ED-01 to ED-05	36	EA.			
	(Furnish and install PLC card mounted in PLC)							
	Total for this item written in words							
4e	PLC - REMOTE DIGITAL INPUT CARD	13451	ED-01 to ED-05	14	EA.			
	(Furnish and install PLC card mounted in PLC)							
	Total for this item written in words							
4f	PLC - REPLACEMENT	13451	CM-01	2	EA.			
	(Furnish and install PLC to replace the PLC at FH-10 and FH-28, including but not limited to equipment and reprogramming)							
	Total for this item written in words							
5	HI LEVEL FLOAT	13400	ES-08	2	EA.			
	(Furnish and install hi level float switch, including but not limited to; switch and ancillary devices)							
	Total for this item written in words							
6a	INTRUSION SWITCH - PANEL MOUNT	13400	ES drawings	50	EA.			
	(Furnish and install intrusion switch(es), including but not limited to; switch(es), wiring, and ancillary mounting devices)							
	Total for this item written in words							

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No.	Pay Item	Specification Reference	Drawing Reference	Qty.	Unit	Material Cost per Unit:	Labor Cost per Unit:	Total = Qty. x (Mat. +Lab.)
6b	INTRUSION SWITCH - HATCH MOUNT	13400	ES-08	3	EA.			
	(Furnish and install intrusion switch(es), including but not limited to; switch(es) and ancillary mounting devices)							
	Total for this item written in words							
7a	CT/VT PANEL	13400	ED-06	9	EA.			
	(Furnish and install complete transclosure mounted equipment/panel (less CT and VT) including but not limited to; enclosure, panel contents, mounting devices, cables, and ancillary equipment)							
	Total for this item written in words							
7b	60 AMP CT's (4-20mA)	13400	ES drawings	84	EA.			
	(Furnish and install CT, including but not limited to; CT and ancillary mounting devices)							
	Total for this item written in words							
7c	6.6 AMP CT's (4-20mA)	13400	ES drawings	22	EA.			
	(Furnish and install CT, including but not limited to; CT and ancillary mounting devices)							
	Total for this item written in words							
7d	480 VAC VT's (4-20mA)	13400	ES drawings	9	EA.			
	(Furnish and install VT, including but not limited to; VT and ancillary mounting devices)							
	Total for this item written in words							
7e	2300 VAC VT's (4-20mA)	13400	ES drawings	22	EA.			
	(Furnish and install VT, including but not limited to; VT and ancillary mounting devices)							
	Total for this item written in words							
8	UNISTRUT CONDUIT SUPPORT	16123, 16130	ES drawings	22	EA.			
	(Furnish and install unistrut conduit supports)							
	Total for this item written in words							

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No.	Pay Item	Specification Reference	Drawing Reference	Qty.	Unit	Material Cost per Unit:	Labor Cost per Unit:	Total = Qty. x (Mat. +Lab.)
9	3/4" FMC	16123, 16130	See drawings	260	L.F.			
	(Furnish and install empty conduit, including but not limited to; conduit and mounting devices)							
	Total for this item written in words							
10a	3/4" GRS CONDUIT	16123, 16130	See drawings	640	L.F.			
	(Furnish and install empty conduit, including but not limited to; conduit and mounting devices)							
	Total for this item written in words							
10b	1" GRS CONDUIT	16123, 16130	See drawings	830	L.F.			
	(Furnish and install empty conduit, including but not limited to; conduit and mounting devices)							
	Total for this item written in words							
10c	1 1/2 " GRS CONDUIT	16123, 16130	See drawings	330	L.F.			
	(Furnish and install empty conduit, including but not limited to; conduit and mounting devices)							
	Total for this item written in words							
10d	2" GRS CONDUIT	16123, 16130	See drawings	50	L.F.			
	(Furnish and install empty conduit, including but not limited to; conduit and mounting devices)							
	Total for this item written in words							
10e	2 1/2 " GRS CONDUIT	16123, 16130	See drawings	70	L.F.			
	(Furnish and install empty conduit, including but not limited to; conduit and mounting devices)							
	Total for this item written in words							
10f	3 " GRS CONDUIT	16123, 16130	See drawings	90	L.F.			
	(Furnish and install empty conduit, including but not limited to; conduit and mounting devices)							
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No.	Pay Item	Specification Reference	Drawing Reference	Qty.	Unit	Material Cost per Unit:	Labor Cost per Unit:	Total = Qty. x (Mat. +Lab.)
11	2 1/2" PVC SCH. 80 CONDUIT UNDERGROUND	16123, 16130	See drawings	981	L.F.			
	(Furnish and install empty conduit in trench, including but not limited to; conduit, saw cutting, sidewalk/pavement removal, trench and backfill, verification of underground conflicts, surface restoration, and ancillary equipment and work for a complete conduit in trench installation)							
	Total for this item written in words							
12	2 1/2" POLY (HOGGED)	16123, 16130	See drawings	137	L.F.			
	(Furnish and install underground conduit, including but not limited to; conduit, boring/hogging equipment, verification of underground conflicts, test pits, saw cutting, sidewalk/pavement removal, trenching, backfill, surface restoration, and ancillary equipment and work for a complete underground conduit installation)							
	Total for this item written in words							
13a	#12 WIRE	16123, 16130	See drawings	570	L.F.			
	(Furnish and install conduit and cable, including but not limited to; conduit, cable, junction/pull boxes, and ancillary mounting devices)							
	Total for this item written in words							
13b	#14 WIRE	16123, 16130	See drawings	850	L.F.			
	(Furnish and install conduit and cable, including but not limited to; conduit, cable, junction/pull boxes, and ancillary mounting devices)							
	Total for this item written in words							
13c	#6 WIRE	16123, 16130	See drawings	680	L.F.			
	(Furnish and install conduit and cable, including but not limited to; conduit, cable, junction/pull boxes, and ancillary mounting devices)							
	Total for this item written in words							
13d	3/0 WIRE	16123, 16130	See drawings	180	L.F.			
	(Furnish and install conduit and cable, including but not limited to; conduit, cable, junction/pull boxes, and ancillary mounting devices)							
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14a	2/C #14 SIGNAL CABLE	16123, 16130	See drawings	2760	L.F.			
	(Furnish and install conduit and wiring from CT/VT to RTU panel including but not limited to conduit, cable, junction/pull boxes, and ancillary mounting devices)							
	Total for this item written in words							
14b	3/C #14 SIGNAL CABLE	16123, 16130	See drawings	2310	L.F.			
	(Furnish and install conduit and wiring from CT/VT to RTU panel including but not limited to conduit, cable, junction/pull boxes, and ancillary mounting devices)							
	Total for this item written in words							
15a	ANTENNA CABLE - 5/8" Heliac (runs exceeding 100 ft)	17350	See drawings	1300	L.F.			
	(Furnish, install, and terminate antenna cable complete with jumpers, connectors and ancillary devices)							
	Total for this item written in words							
15b	ANTENNA CABLE - 1/2" Heliac (runs up to 100 ft)	17350	See drawings	320	L.F.			
	(Furnish, install, and terminate antenna cable complete with jumpers, connectors and ancillary devices)							
	Total for this item written in words							
16	HAND HOLE (12" x 24" x 18" deep)	17350	ED drawings	21	EA.			
	(Furnish and install handholes complete with connectors and ancillary devices)							
	Total for this item written in words							
17	SIDEWALK REMOVAL AND REPLACEMENT	17350	See drawings	280	SF.			
	Total for this item written in words							
18	GRASS REPLACEMENT	17350	See drawings	1650	SF.			
	Total for this item written in words							
19	LCP REMOVAL	n/a	ES drawings	11	EA.			
	(Remove existing LCP complete including but not limited to LCP and wiring)							
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20	TERMINATIONS (FLEXIBLE CONNECTIONS)	17350	See drawings	62	EA.			
	(Furnish and install terminations)							
	Total for this item written in words							
21	JUNCTION BOX	17350	See drawings	26	EA.			
	(Furnish and install junction boxes complete with connectors and ancillary devices)							
	Total for this item written in words							
22	CONTRACTOR MOBILIZATION/PM/TRAINING	Misc	n/a	1	LS			
	Total for this item written in words							
23	SPARE PARTS	Misc	n/a	1	LS			
	Total for this item written in words							
24	RADIO SYSTEM TESTS (Pre-Verification/Field Tests/SAT)	17350	n/a	1	L.S.			
	Total for this item written							
25	PLC RE-PROGRAMMING	Div 13	n/a	1	L.S.			
	Total for this item written							
	Total Base bid for project							
	Total Base Bid written in words for project							