

CONTRACT CHANGE ORDER
SARATOGA COMPLEX LIGHTING

Date: 1/18/18

Contract Number: 3978

Branch: Engineering Department

Change Order Number: 2

Contractor: Vinii Solar Engineering & Electric

Amount of original contract\$98,372.00

Amount of Contract prior this Change Order \$98,372.00

Description of change:

Description of quantity changes:

1. The conduit quantities were based on estimated of where the equipment would be installed per plan. Field conditions and adjustments of poles to avoid conflict with existing structures increased estimated quantities.

Bid Item 6: 1.25-inch conduit nonmetallic special was estimated at 1,200 Lin. Ft.. The actual measured quantity 1,268 Lin. Ft.. Additional 68 Lin. Ft. @ \$14.94 \$ 1,015.92

2. The wire quantities were based on estimates of where equipment would be installed per plan. Field conditions and adjustments of poles to avoid conflict with existing structures increased the estimated quantities.

Bid Item 8: #6 AWG wire was estimated at 17,800 Lin. Ft. The actual measured quantity was 22,728 Lin. Ft. Additional 4,928 Lin. Ft. @ \$0.84 \$ 4,139.27

Bid Item 9: #4 AWG wire, was estimated at 8,400 Lin. Ft.. The actual measured quantity was 9,496 Lin. Ft.. Additional 1,056 Lin. Ft. @ \$1.28 \$ 1,403.14

3. Asphalt patching was originally estimated for only the repairs around the new poles within the north and south alleys of the complex. The repairs to the east and west poles and the alleys where the conduit was trenched around the complex was not in the original estimate. This has led to an increase in asphalt repairs:

Bid Item 14: Remove and Replace Asphalt Path, was estimated for 3 square yards. The actual measured quantity was 20.24 square yards. Additional 17.24 Lin. Ft. at \$216.67 equals an additional \$ 3,735.09

Subtotal costs for materials measured \$10,293.72

4. The contract does include a provision to assess liquidated damages for failure to complete the project on time. Change Order No. 1 extended the contract to May 30, 2017 due to the large amount of rainfall in the beginning of the project. The project was accepted on October 2, 2017, which is 88 days over the amended contract. It is recommended that the contract be extended 78 days to September 18, 2017, for delays that occurred outside the contractor's control.

Subtotal Liquidated damages @\$500/day for 10 days (\$5,000.00)

5. Deduction for Vinii damage to light pole and fixture. (\$ 286.20)

6. All 2-inch conduit was installed instead of 2-inch and 1.25-inch (Bid Items 5 & 16). By doing so, the total cost was less than the original cost estimate.

<u>Bid Item 5:</u> 2-inch conduit increased 983 Lin. Ft. adding a cost of	\$4,070.30
<u>Bid Item 16:</u> 1.25-inch conduit was decreased 983 Lin. Ft., decreasing the cost	(<u>\$4,224.00</u>)
Subtotal Items 5 and 6	(<u>\$ 439.90</u>)

Amount of this Change Order..... **\$4,853.82**

Net Contract Amount after this Change Order..... **\$ 103,225.82**

City of Waukesha	Date
Director of Public Works	

Contractor	Date
Vinii Solar Engineering & Electric	