

Over and Above Estimate

Region:2

Location: NY023

CSS #: 21308

Maximo Work Order No. 5615A

Asset#

Date Issued: 09/29/2020

Original Description: Repair GFI outlet at 911

memorial side of Building #200, currently not working

Diagnostic: Remove and Install a new disconnect switch at pond control area and receptacle, install two new additional receptacles within the shrub line. Please see attached documentations for detail scope work.

Non Pre-Priced Estimate:

Quantity	Line Item Number	Description	Labor Hours	Unit	Labor	Materials	Equipment	Total
1		Materials (See attached estimate for line items)				\$1441.62		\$1441.62

Note: RS Means (Pre-Priced) not used in compiling this estimate.

Note: Subcontractor quote attached.

Estimate Summary:

Labor Hours	Labor Cost	Material Cost	Equipment Cost	Total Cost	CE Factor	Total Estimate
24.0 hrs @ 165.00	\$3960.00	\$1441.62		\$7691.62	.90%	\$6922.46
16.0 hrs @ 115.00	\$1840.00					
Incurred diagnostic 450.00	\$450.00					

Please see attached Estimate,



MSL Electric, LLC

6555 GRAND AVE
NY 11378

Estimate

Date	Estimate #
11/5/2020	1218

Name / Address
International Support Group 9050 Pine Blvd., Suite 150 Pembroke Pines, FL 33024

Project

Description	Qty	Rate	Total
Removal of safety issues and violations for the 911 Memorial GFCI receptacles. This installation shall include a new disconnect switch installed at the pond control area and a receptacle installed at this location and two additional receptacles within the shrub line at the memorial. These receptacles shall all be on the same circuit and protected by a 20 amp GFCI circuit breaker. Power shall be taken from the existing 3KW transformer. New 3/4" schedule 40 conduit shall be installed within the earth and schedule 80 above ground. Each outlet box shall receive a 20 amp weather resistant type receptacle and an in use cover in accordance with the local electrical codes. NY0023 WO2-5615 CSS21308.		0.00	0.00
Labor Rate in accordance with Davis Beacon Wages Electricians will follow NY-ELEC003-001	24	165.00	3,960.00
Labor Rate in accordance with Davis Beacon Wages Small Equipment Operator will Follow NY-LABO1010-002	16	115.00	1,840.00
Electrical & Lighting for the above installation.		1,096.62	1,096.62
		345.00	345.00
Initial diagnostics for the above mentioned project.		450.00	450.00
		Subtotal	\$7,661.00
		Sales Tax (8.875%)	
		Total	\$7,691.62

MSL Electric, LLC

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911 Memorial GFCI Receptacle Repairs

NY0023 WO2-5615A CSS21308

Attached are pictures of the receptacles at the memorial site to further explain the situation. These pictures will each be explained in this document.

The current issue with these receptacles is the Ground Fault Circuit Interrupter receptacles have been removed and replaced with regular indoor receptacles. We are not sure who did this but aside from a code violation, a total safety issue and the receptacles not being rated for outdoors the problem still exists and has become hazardous.

The initial issue with the GFCI receptacles installed was the installation. The wiring installed is not rated to be located within a conduit. The receptacles were installed where the grounds crew constantly makes contact with them with the cutting equipment and each time damage occurs. Water then enters the box via rain and shorts out the GFCI receptacles and each time need to be replaced. This is usually three days before the 911 ceremony.

The solution:

Remove the boxes from the location and install new conduit and boxes within the shrubs just behind the rock wall as mulch is put down every spring and there is no need to have equipment in that area. This will eliminate damage to these receptacles. New wiring must be installed to complete this project to eliminate the current violation. Unfortunately new conduit must also be run from the 120 volt disconnect behind the shrubbery at the control station for the pond pumps. Each conduit is individually run to each outlet box meaning there is a buried splice box under the earth which cannot be located at this time. Roughly 100 feet of $\frac{3}{4}$ " Schedule 40 PVC conduit will need to be installed. Below is a brief description of each picture taken in the field.

Picture 1: Step down transformer from 480 volts to 120 volts at 25 amps, which is more than comparable for the power needed.

Picture 2&2A Disconnect switch with a circuit breaker for the GFCI receptacles. This disconnect needs to be replaced with a like product due to parts missing and making it a hazard. In addition the GFCI receptacle inside of this disconnect needs to be removed and properly installed on below this switch.

Picture 3: Receptacle outlet box located to the west of the memorial. This shows the incorrect indoor, non GFCI receptacle installed. In addition a single conduit resulting in a buried splice box.

Picture 4: Receptacle outlet box located to the east of the memorial. This shows the box damaged beyond repair and must be replaced.

Picture 5&6: Just behind each of these outlet boxes is the area of recommendation of where these GFCI receptacles should be relocated to.

