

Pine Ridge Technologies, Inc.

50 New Salem Street
 Wakefield, MA 01880
 United States

Voice: 781-246-5555

Fax:

INVOICE

Invoice Number: 17374-060918

Invoice Date: Jun 14, 2018

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Duplicate

Bill To:
City of Somerville 93 Highland Avenue Somerville, MA 02143

Ship to:
City of Somerville 93 Highland Avenue Somerville, MA 02143

Customer ID	Customer PO	Payment Terms	
SOMERVILLE	20182773	Net 30 Days	
Sales Rep ID	Shipping Method	Ship Date	Due Date
	Best Way		7/14/18

Quantity	Item	Description	Unit Price	Amount
		City of Somerville - Traffic Signal Maintenance - January THRU JUNE 9th, 2018 - Please see attached for details. 1/23, 1/24/18 - Flashing, Broadway @ Main 6/5/18 - Flash - Newbury/Holland/Broadway		1,130.40 5,164.23
Subtotal				6,294.63
Sales Tax				
Total Invoice Amount				6,294.63
Payment/Credit Applied				
TOTAL				6,294.63

Check/Credit Memo No:

City of Somerville
TRAFFIC SIGNAL MAINTENANCE
BILLING
MONTH Jan thru 6/9/2018

CITY PO # = 20182773

JOB #17-374

EMAIL INVOICE TO:

Joe Goode (jgoode@somervillema.gov)
 Stephanie Reed <sreed@somervillema.gov>

DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
LABOR	12	HR	\$ 94.20	\$ 1,130.40
				\$ -
				\$ -
TOTAL				\$ 1,130.40

\$ 1,130.40

Location:	Broadway at Main
Problem:	FLASHING
Date:	1/23, 1/24/18
Description of Work:	
<p>Received a call at 6 PM Tuesday, January 23, 2018 that the intersection of Broadway at Main Street in Somerville was on flash. arrived on site and found that the MMU stated red fail phase 3. Joe Goode and I isolated all three signals on phase 3 And still had conflict. I swapped out the MMU with my digital one and found that there was conflicts on every Active phase voltage bleeding out. I found the condition of the wires in the signal bases to be completely dry rotted and insulation all cracked and missing. I tried to cut back and remake some of the corroded neutral connections but it would not clear the conflict. I was instructed by Joe Goode to leave the intersection on flash overnight and start first thing in the morning with cable replacement. I closed up the bases and left the intersection. We returned the next day to re cable the intersection and got called off at time of arrival by Chris Cali. Chris stated that they found the bad wiring in the mast arm and would fix it themselves</p>	

DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
LABOR	12	HR	\$ 94.20	\$ 1,130.40
LOAD SWITCH	3	EA	\$ 91.20	\$ 273.60
FLASH TRANSFER RELAY	1	EA	\$ 91.20	\$ 91.20
TS2 CONTROLLER	1	EA	\$ 3,648.00	\$ 3,648.00
TAPE	1	EA	\$ 19.89	\$ 19.89
WIRE NUTS	10	EA	\$ 0.11	\$ 1.14
				\$ -
TOTAL				\$ 5,164.23

LIST UNIT PRICE	LIST PRICE MINUS 5%
\$ 96.00	\$ 91.20
\$ 96.00	\$ 91.20
\$ 3,840.00	\$ 3,648.00
\$ 20.94	\$ 19.89
\$ 0.12	\$ 0.11

\$ 5,164.23

Location: NEWBURY/HOLLAND/BROADWAY

Problem: FLASH

Date: 6/5/2018

Description of Work:

TO LOCATION FOUND INTERSECTION ON FLASH. CONFLICT ON PHASES 4+7. CHECKED OUT POLE BASES AND SPLICES. RESPLICED CONDUCTORS. TRIED TO RESET. CHANGED OUT LOAD SWITCH. TEST WITH SMART MONITOR. CONFLICT REMAINS ON 4+7 WITH CONTROLLER FORCING OUTPUT ON PHASE 4 RED+YELLOW TOGETHER. DIAGNOSIS IS OLD/BAD CABINET. CITY REQUESTED A 2ND ELECTRICIAN TO COME AND TRY. 2ND ELECTRICIAN CAME AND TRIED TO RE-WIRE BACKPANEL. CHANGED OUT FLASH TRANSFER RELAY AND MORE LOAD SWITCHES. CHANGED OUT CONTROLLER AND REPROGRAMMED. RESET SIGNALS AND TESTED. ALL OK. WATCHED FOR SEVERAL CYCLES. CABINET REALLY SHOULD BE REPLACED HERE. NO MORE AVAILABLE OUTPUTS LEFT

\$ 6,294.63