94 Reservoir Park Drive
Rockland, MA 02370
(617)-544-3200

November 5, 2024

Solution: New Steam Traps

Site: Recreation Department, 16 Walnut Street, Somerville, MA 02145

Presented To:
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City of Somerville
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Prepared By:
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Inovis Energy, Inc, is a turn-key implementer of energy efficiency measures. We provide our clients with a streamlined approach to energy conservation projects that makes the process efficient, clear, and successful.

We have included the necessary information for review of the above-mentioned project in this report. We hope you find our analysis clear and concise. If there are any specific questions, or additional information requested, please let us know.

Tony Parente

Tony Parente
Director of Business Development
Inovis Energy, Inc.

INOVIS ENERGY
EFFICIENCY·FORWARD

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Proposed Scope of Work:

Inovis Energy proposes to supply and install (21) new steam traps per the findings in separately provided steam trap survey. Significant energy and maintenance savings will result.

Clarifications and Assumptions:

1. **Work to be performed during normal, first shift hours, Monday through Friday, prevailing wage.**
2. **No existing code violations to be corrected.**

Proposal:

Description	Total Cost	Utility Incent -ive	Total Cost less Incentive	Annual Therms Savings	Annual Oil Saved, Gal.	Annual Cost Savings	Payback (yrs)
Supply & Install (21) Steam Traps	$12,800	$5,151	$7,649	6,574	4,696	$17,610	0.4

*Cost savings based on #2 Fuel Oil cost of $3.75/Gal.

Due to current supply chain volatility, this proposal is valid for 30 days from date of submittal.

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AGREEMENT TO PROCEED

Customer: City of Somerville
Site Address: 16 Walnut Street
Somerville, MA 02145

Solution: New Steam Traps

Terms & Conditions:
This is a turnkey proposal unless otherwise agreed upon by the customer and Inovis Energy, Inc. Labor, materials, and waste disposal are included in the project cost. The total installed cost is based on the included 'Scope of Work'. Any fixtures not included in the 'Scope of Work', or uncounted fixtures or areas that the customer would like to add to the contract are treated as a Change Order. Change Orders must be approved by the customer prior to installation. Any available rebates/incentives will be paid to Inovis Energy, Inc. unless otherwise noted, and will be considered partial payment for the project as outlined below.

Upon acceptance of this proposal (unless financing), the customer shall pay a deposit of 50% of the contract price. The customer understands that Inovis will incur certain mobilization expenses as a result of its undertaking this project. If the customer seeks to cancel the contract, Inovis will be entitled to 10% of the contract price to cover these mobilization expenses. If the customer cancels the project within thee (3) days of signature, Inovis shall waive said mobilization expenses.

Acceptance of Terms:
Somerville approved the terms & conditions outlined above as well as the scope of work as provided. Somerville agrees to the following payment terms and amounts outlined below. Any unpaid invoices that exceed 30 day terms will accrue late fees of 2% per month.

Payment Terms: Total Cost less Incentive due Net 30.

Client Accepted By:	Inovis Energy, Inc Accepted By:
Name:_____	**Name:**_____
Title:_____	**Title:**_____
Signature:_____	**Signature:**_____
Date:_____	**Date:**_____

Review of Recorded Data

Table 1: Summary of Audit Results

	Failing Status					
Fully Operational	**Blowing By**	**Leaking**	**Plugged**	**Not In Service (NIS)**	**Retired in Place (RIP)**	**Total**
32	3	17	1	1	0	**54**

Assuming a cost of $4.00/gallon, an estimated 4,737 gallons of oil/year could be saved by making repairs to faulty traps.

Table 2: Audit Results

	TRAP	APPLICATION	BLDG/ROOM/FLOOR	LOCATION/ELEVATION	MFG	MODEL	TRAP TYPE	PIPE SIZE (IN.)	PSIG	TRAP STATUS
1	14771	Drip Leg	Recreation Building/Basement/Boiler	Center left wall 2'	Barnes & Jones	134	Thermostatic Angle	3/4	5	Leaking
2	14772	Drip Leg	Recreation Building/Basement/Boiler	Loft corner top of stairs 5'	Barnes & Jones	147	Thermostatic Angle	1	0	Not In Service
3	14773	Drip Leg	Recreation Building/Basement/Boiler	Loft corner top of stairs 3'	Barnes & Jones	134	Thermostatic Angle	3/4	5	Fully Operational
4	14774	Drip Leg	Recreation Building/Basement/Boiler storage	Window right side corner 8'	Barnes & Jones	134	Thermostatic Angle	3/4	5	Fully Operational
5	14775	Radiator	Recreation Building/2nd/200	Left window right side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Blowing by
6	14776	Radiator	Recreation Building/2nd/200	Storage window right side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
7	14777	Radiator	Recreation Building/2nd/201	Back window left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
8	14778	Radiator	Recreation Building/2nd/Hall	Top of stairs	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
9	14779	Radiator	Recreation Building/2nd/202	Center windows left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
10	14780	Radiator	Recreation Building/2nd/202	Back left corner right side	Barnes & Jones	122	Thermostatic Angle	1/2	5	Fully Operational
11	14781	Radiator	Recreation Building/2nd/Kiln	Back left corner left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational

12	14782	Radiator	Recreation Building/2nd/Photo	Front right corner left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Blowing by
13	14783	Radiator	Recreation Building/2nd/203	Left window right side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
14	14784	Radiator	Recreation Building/2nd/204	Right window left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
15	14785	Radiator	Recreation Building/1.5/South Stairs	Landing outside bathroom	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
16	14786	Radiator	Recreation Building/1.5/South Stairs	Bathroom window left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
17	14787	Radiator	Recreation Building/1st/100	Window left wall left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
18	14788	Radiator	Recreation Building/1st/100	Bathroom window left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
19	14789	Radiator	Recreation Building/1st/101	Window right side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
20	14790	Radiator	Recreation Building/1st/100	Safe right wall left side	Warren Webster	O2H	Thermostatic Angle	1/2	5	Leaking
21	14791	Radiator	Recreation Building/1st/Main entrance	Left radiator left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
22	14792	Radiator	Recreation Building/1st/Main entrance	Right radiator right side	Barnes & Jones	122	Thermostatic Angle	1/2	5	Plugged
23	14793	Radiator	Recreation Building/1st/102	Left wall left radiator right side	Barnes & Jones	122	Thermostatic Angle	1/2	5	Fully Operational
24	14794	Radiator	Recreation Building/1st/102	Left wall right radiator left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
25	14795	Radiator	Recreation Building/1st/102	Back wall left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
26	14796	Radiator	Recreation Building/1st/102	Front wall left side	Warren Webster	512	Thermostatic Angle	1/2	5	Blowing by
27	14797	Radiator	Recreation Building/1st/Hall	Corner left side near 103	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
28	14798	Radiator	Recreation Building/1st/103	Back left window right side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
29	14799	Radiator	Recreation Building/1st/104	Right window left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
30	14800	Radiator	Recreation Building/1st/105	Window left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational

31	14801	Radiator	Recreation Building/1st/105	Bathroom window right side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
32	14802	Radiator	Recreation Building/Basement/4	Window left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
33	14803	Radiator	Recreation Building/Basement/4	Window left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
34	14804	Drip Leg	Recreation Building/Basement/4	Back right corner 1'	Hoffman	8C	Thermostatic Angle	3/4	5	Fully Operational
35	14805	Drip Leg	Recreation Building/Basement/5	Alley left wall center	Barnes & Jones	134	Thermostatic Angle	3/4	5	Fully Operational
36	14806	Radiator	Recreation Building/Basement/5	Alley left wall right side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational
37	14807	Radiator	Recreation Building/0.5/SE Stairs	Corner at exit door	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
38	14808	Radiator	Recreation Building/Basement/6	Left window right side	Warren Webster	02H	Thermostatic Angle	1/2	5	Fully Operational
39	14809	Radiator	Recreation Building/Basement/6	Right window left side	Warren Webster	02H	Thermostatic Angle	1/2	5	Leaking
40	14810	Drip Leg	Recreation Building/Basement/6	Right window right side	Barnes & Jones	134	Thermostatic Angle	3/4	5	Fully Operational
41	14811	Radiator	Recreation Building/Basement/S entry	Right wall right side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
42	14812	Radiator	Recreation Building/Basement/7	Right window right side	Hoffman	17C	Thermostatic Angle	1/2	5	Fully Operational
43	14813	Drip Leg	Recreation Building/Basement/7	Between windows 1'	Warren Webster	713HB	Thermostatic Angle	3/4	5	Leaking
44	14814	Drip Leg	Recreation Building/Basement/7	Between windows 10'	Warren Webster	714	Thermostatic Angle	1	5	Fully Operational
45	14815	Radiator	Recreation Building/Basement/7	Left window right side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Leaking
46	14816	Drip Leg	Recreation Building/Basement/7	Left window left side	Barnes & Jones	134	Thermostatic Angle	3/4	5	Fully Operational
47	14817	Drip Leg	Recreation Building/Basement/7	Bathroom entry 1'	Barnes & Jones	134	Thermostatic Angle	3/4	5	Fully Operational
48	14818	Drip Leg	Recreation Building/Basement/7	Bathroom entry 7'	Barnes & Jones	147	Thermostatic Angle	1	5	Fully Operational
49	14819	Radiator	Recreation Building/Basement/7	Bathroom window left side	Warren Webster	712HB	Thermostatic Angle	1/2	5	Fully Operational

50	14820	Drip Leg	Recreation Building/Basement/S entry	Left of radiator	Barnes & Jones	134	Thermostatic Angle	3/4	5	Fully Operational
51	14821	Drip Leg	Recreation Building/Basement/Hall	Left of radiator	Barnes & Jones	713HB	Thermostatic Angle	3/4	5	Fully Operational
52	14822	Radiator	Recreation Building/Basement/8	Right window ceiling 9'	Watson McDaniel	712HB	Thermostatic Angle	1/2	5	Fully Operational
53	14823	Radiator	Recreation Building/Basement/Exit	S exit off rm 8	Watson McDaniel	712HB	Thermostatic Angle	1/2	5	Leaking
54	14824	Radiator	Recreation Building/Basement/2	Back left corner 9'	Watson McDaniel	712HB	Thermostatic Angle	1/2	5	Fully Operational