



HISTORIC
FRANKLIN
TENNESSEE

MEMORANDUM

December 14, 2009

TO: Board of Mayor and Aldermen

From: Eric Stuckey, City Administrator *E.S.*
Brad Wilson, Facilities Project Manager

Subject: Installation of electric heat trace tape to the eye wash and personnel wash area located in the unheated sally port area where personnel enter into the holding part of the facility.

Purpose

The purpose of this memorandum is to provide information to the Board of Mayor and Aldermen (BOMA) that on behalf of the board approval was given to install a electrical heat trace to the water line and unit that is installed in the unheated sally port area at the wash unit. \$1,111.00.

Background

Located in the sally port area of the facility where staff enters with anyone possibly in custody a eye and body wash station is located for any possible wash needs.. There may be times that someone in custody or staff may due to some unforeseen reason have a need to flush their eyes or be washed off. Currently the facility at the Century Court complex has the same situation and each spring broken pipes are dealt with because the unit is not designed for freezing weather. During my walkthrough I noticed we had the exact same unit as at the fire training station and was aware of the problems that occur there. Heat unit is set on a thermostat so that electricity is turned on only when needed.

Financial Impact

Total cost of addition of heat trace unit to exterior wash station \$ 1,111.00.

Options

Again there is no heat source in the sally port area which is a open to the cold air and the water needs to be supplied to the wash unit for whenever a problem may occur.

Recommendations

Request that board accept the approval of the amount requested so that the unit can be protected from any possible freeze.

RGANDERSON COMPANY, INC.
CONTRACTORS ENGINEERS

December 10, 2009

James Kennon
Kennon Architects
4307 Lealand Lane
Nashville, TN. 37204

Re: CITY OF FRANKLIN POLICE HEADQUARTERS

Dear Mr. Kennon,

Enclosed with this letter, is our documentation of cost per ASI 66 for the Sally port Heat Trace, as our COR No.42R1.

If the attached proposal is in order, please issue a change order in the amount of \$1,111.00.

Also, we are not requesting any additional days for this work.

Sincerely,

The R. G. Anderson Company, Inc.



Ralph Lee
Project Manager



1801 WEST END AVENUE • SUITE 1800 • NASHVILLE, TENNESSEE 37203
(615) 329-1789 • FAX (615) 321-4555



12/10/2009

RGA 35 - COR 43R1

R. G. ANDERSON FILE NO.

**CITY OF FRANKLIN
POLICE HEADQUARTERS
FRANKLIN, TENNESSEE**

**KENNON ARCHITECTS, PLLLC
JKA PROJECT NO. 0506.00
STANDARD PRICING COVER SHEET**

ITEM OF WORK: SALLYPORT EMERGENCY SHOWER HEAT TRACE

REFERENCE DRAWINGS : ASI 66

CLARIFICATIONS / EXCLUSIONS:

TOTAL COST

\$1,111.00

TIME EXTENSION (IN CALENDAR DAYS)

0

Form for Contractor's Subcontractor's Cost Itemization


Materials, Equipment, and Labor itemized below will be provided by: R.G.ANDERSON CO., INC.										Page Number	1		
Job Name: FRANKLIN POLICE HEADQUARTERS					Date Itemized 12/10/2009								
Project Number: KENNON ARCHITECTS, PLLC					Proposal Number COR 42R1								
Description	Material				Equipment				Labor				
	Quantity	Unit	Cost	Extension	Quantity	Unit	Cost	Extension	Quantity	Unit	Cost	Extension	
				\$0.00				\$0.00				\$0.00	
CHANGE ORDER REQUEST NO.42R1				\$0.00				\$0.00				\$0.00	
SALLYPORT EMERGENCY SHOWER				\$0.00				\$0.00				\$0.00	
HEAT TRACE				\$0.00				\$0.00				\$0.00	
				\$0.00				\$0.00				\$0.00	
				\$0.00				\$0.00				\$0.00	
				\$0.00				\$0.00				\$0.00	
				\$0.00				\$0.00				\$0.00	
				\$0.00				\$0.00				\$0.00	
				\$0.00				\$0.00				\$0.00	
				\$0.00				\$0.00				\$0.00	
FIELD ENGINEERING				\$0.00				\$0.00	1	HRS	\$58.86	\$58.86	
PROJECT MANAGEMENT				\$0.00				\$0.00	1	HRS	\$28.80	\$28.80	
ADMINISTRATIVE				\$0.00				\$0.00				\$0.00	
ESTIMATING				\$0.00				\$0.00	1	HRS	\$28.80	\$28.80	
ACCOUNTING				\$0.00				\$0.00	1	HRS	\$19.00	\$19.00	
ADMIN ASSISTANT				\$0.00				\$0.00	1	HRS	\$12.00	\$12.00	
SUPPLIES, POSTAGE, ETC.	1.00	LS	\$2.50	\$2.50				\$0.00				\$0.00	
				\$0.00				\$0.00				\$0.00	
				\$0.00				\$0.00				\$0.00	
				Material Subtotal					Labor Subtotal	\$149.46			
				Sales Tax 9.25%					30% P.T.I. Prem.	\$44.84			
				Material Costs including Sales Tax Total	\$2.73					Equipment Total	\$0.00	Labor Costs including Mark-Up Total	\$194.30
											Material	\$2.73	
											Equipment	\$0.00	
											Labor	\$194.30	
											M+E+L - Subtotal	\$197.03	
											10% Overhead	\$19.70	
											((M+E+L)*10% OH - Subtotal	\$216.73	
											Subcontract Costs	\$842.00	
											((M+E+L)*10% OH) + Subcontract Costs - Subtotal	\$1,058.73	
											5% Profit	\$52.94	
											((((M+E+L)*10% OH)*5% Profit) - Subtotal	\$1,111.87	
											0.00% Bond/B.R.I Premium	\$0.00	
											(((((M+E+L)*10% OH)*5% Profit)*Bond Premium) - TOTAL	\$1,111.87	

SUBCONTRACTORS	COST
JE GREEN	\$400.00
MADDUX	\$442.00
TOTAL	\$842.00

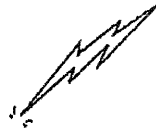
PROPOSAL

Page 1 of 1 page(s)

ACS Insulation, Inc.
4636-334 Lebanon Road
Hermitage, TN 37076
PH: 615-847-0500
FX: 615-847-0310

TO: John E. Green 3070 Sidco Drive Nashville, TN 37204	Phone 641-7400	Date 11/16/09
	Job Name/Location Franklin Police Headquarters Emergency Shower	
We hereby submit specifications and estimates for: ♦ Emergency shower pipe insulated with 1/2" thick Armaflex -\$400 		
We Propose hereby to furnish material and labor - complete in accordance with the above specifications for the sum of: <p style="text-align: center;">\$400</p>		
Payment terms: Net 30 days	Note: This proposal may be withdrawn by us if not accepted within 14 days.	
Authorized Signature _____		
Acceptance of Proposal - the above prices, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined. Signature _____		
<small>All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance.</small>		

MADDUX ELECTRIC Co.



"NO ONE OF THE LARGEST - JUST ONE OF THE BEST"

REVISED QUOTE

DATE: 12/4/2009

LICENSE NUMBER: 27488 EXPIRATION DATE: 7/31/2010

CERTIFICATIONS: E-B,C,F LIMITS: UNLIMITED

COMPANY: R G Anderson ATTN: Ralph Lee

FAX NUMBER: _____ PAGES _____

FROM: CHRIS RAIMONDI

SUBJECT: ASI #88 Sally port heat trace QUOTE- \$442.00

We will supply the heat trace plug in cable.

Thank You,

Chris Raimondi

**EXCLUSIONS: LIGHT POLE BASES, HOUSEKEEPING PADS, TRANSFORMER PADS,
POWER COMPANY FEES, TELEPHONE COMPANY FEES, CABLE COMPANY
FEES AND ROCK REMOVAL.CONCRETE / PAVEMENT CUT & PATCH**

59 WILLOW STREET * NASHVILLE , TN 37210 * (615) 254-7644 * FAX (615) 255-3300

Heat-Cab

For information about

Hot-Environment He

Heat Cable
with Connection
Termination Kit

The nichrome resistance wire in this constant-wattage cable provides continuous high heat output in high temperature environments. Use if you need higher temperatures or precise temperature control. Designed for process temperature maintenance. Temperature controller is required; see pages 566-568. Also requires a connection/termination kit or end-termination kit (sold separately). Cable is single phase and approximately 3/16" Wd. x 1/2" Thick. FM approved Class 1, Div. 2, Groups B, C, and D. Use with metal pipe only.

Note: To prevent hot spots and burnout, keep cable in direct contact with pipe (no air gap between cable and pipe) and do not overlap.

Heat Cable

High-Temperature Heat Cable—Maximum heat output is 400° F. Exposure temperature range is -30° to +400° F. Cable braid is corrosion- and abrasion-resistant stainless steel. CSA certified.

Ultra-High Temperature Heat Cable—Maximum heat output is 600° F. Exposure temperature range is -30° to +550° F. Braid is Unlined copper covered in nonflammable PTFE jacket for moisture protection.

Watts/ft.	Max. Lg.	120 VAC	Per Ft.	Max. Lg.	240 VAC	Per Ft.
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High-Temperature Heat Cable

3	360 ft.	3553K31	7.03	720 ft.	3553K32	7.03
6	275 ft.	3553K33	7.03			
8	220 ft.	3553K35	7.03	440 ft.	3553K36	7.03
12	180 ft.	3553K37	7.03			

Ultra-High Temperature Heat Cable

4	310 ft.	3553K72	8.45	440 ft.	3553K75	8.45
8	220 ft.	3553K73	8.45	380 ft.	3553K76	8.45
12	180 ft.	3553K74	8.45			

Termination Kits—Use to connect a single cable to a power source. Include a standoff suitable for connection to an electrical box, a cable splice, and two terminations.

End-Termination Kits—Include five power connections and five end terminations. For use with existing standoff, or to add multiple cables to connection/termination kit.

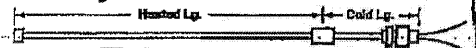
Tea-Splice Kits—Include three power connections and one end termination. Enough to complete one inline or tee splice.

For Cable	Connection/Termination Kits	End-Termination Kits	Tea-Splice Kits
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High	3553K62* \$56.58	3553K63* \$47.54	3553K64* \$26.59
Ultra-High	3553K62... 56.58	3553K63... 33.77	3553K64... 25.78

* Kits include shrink tubes.

Extreme-Environment High-Intensity Heat Cable



Maximum oxide insulation and an in-soluble sheath allow this constant-wattage cable to withstand temperatures from -40° to +1100° F. Ideal for floor warming. It can even be buried in concrete to melt snow on a landing. Cable diameter is 1/4". Cold length is 7 ft. for all. They have wire leads for hardwiring. Max. heat output is 1100° F. For temp. controller, see pgs. 566-568.

Heated Lg.	Watts	Watts/ft.	Amps	Each
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120 VAC

10 ft.	60	6	0.7	7225T11... \$301.88
20 ft.	194	9.7	1.6	7225T12... 344.75
50 ft.	655	11.1	4.8	7225T13... 473.19

240 VAC

10 ft.	320	32	1.3	7225T21... 301.88
20 ft.	614	25.7	2.1	7225T22... 344.75
50 ft.	1150	23	4.8	7225T23... 473.19

Heat-Transfer Putty

To conduct heat and prevent burnout and premature failure when your heat cable can't make direct contact with the pipe, just mold this putty around the cable and stick it directly to the pipe. It withstands temperatures from -320° to +750° F and resists impact and thermal shock. Sets to a rock-like hardness in 24 hours.

1 gallon	3568K1	Each	\$31.88
5 gallon	3568K3	Each	\$149.28

Roof and Gutter Heat Cable

Install these constant-wattage cables on roofs in gutters and downspouts to prevent damage by ice buildup. Note: Cable must be installed before ice begins to form. Cables operate on 120 VAC with a 6-ft. long power cord with standard three-prong plug. To prevent burnout, they must be overlapped. CSA certified. Cables include roof clips and downspout spacers for the best fit. Extra clips and spacers are offered separately.

Optional cable controller turns cable off if moisture is detected and temperature drops below 40° F; it turns off when moisture is no longer detected. Includes a 6-ft. long power cord with standard three-prong plug. Compatible with cables listed below.

To determine the length of cable you need for a roof (in addition to cable needed for gutters and downspouts): Measure the length of roof and multiply by the number below, based on roof overhang.

Overhang	Multiplier	Overhang	Multiplier
12"	4	48"	16
24"	8.3	60"	20
36"	8.8	72"	24

For example, for a 24-ft. long roof with a 12" overhang: 24 x 4 = 96 ft. of cable needed

Lg.	Watts	Amps	No. of Clips	No. of Spacers
30 ft.	150	1.3	19	16
60 ft.	300	2.5	38	32
80 ft.	400	3.3	57	48
100 ft.	500	4.2	76	64
120 ft.	600	5	95	80
160 ft.	800	6.7	124	108
200 ft.	1000	8.3	153	136
240 ft.	1200	10	182	164

Cable Controller 3546K41 Each \$16.99

Extra Roof Clips (12) and Spacers (12) 3546K51 Per Pkg. \$3.99

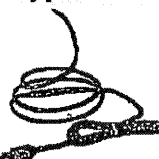
Ready-to-Use Freeze-Protection Heat Cable



These constant-wattage cables are ready to go right out of the box—they include a temperature controller and a power cord with standard three-prong plug. Just plug them in and use to keep flowing through plastic and metal pipes. They are 3/4" to 1 1/2" dia. The controller turns cable off when temperature goes below 38° F and off when it reaches 45° F. Cables are rated at 7 watts/ft. operate on 120 VAC, single phase, and have a weather-resistant PVC outer jacket. Size is 1/2" Wd. x 1/2" Thick. Exposure temp. range is -40° to +155° F. UL listed and CSA certified. Note: Apply cable straight along pipe; to prevent premature failure, do not overlap or spiral. Do not use cable that is longer than the pipe.

Lg.	Watts	Amps	Each	Lg.	Watts	Amps	Each
3	21	0.18	3554K21	24	168	1.4	3554K27
6	42	0.35	3554K22	36	210	1.75	3554K28
9	63	0.53	3554K23	37.88	40	280	2.33
12	84	0.7	3554K24	41.48	60	420	3.5
15	105	0.88	3554K25	49.18	80	560	4.67
18	126	1.1	3554K26	49.78			

Copper-Tubing Heaters



To use, run the heater along the length of the pipe. For a higher concentration of heat, spiral-wrap the heater around the pipe. Wattage rating is 10. Voltage is 120 VAC, single phase. Heaters include a 6-ft. long power cord with standard three-prong plug.

Note: To prevent burnout, do not overlap. Do not use on plastic pipe.

Lg.	Watts	Amps	Each
5 ft.	60	0.4	3566K21... \$15.99
10 ft.	100	0.8	3566K22... 19.99
15 ft.	150	1.3	3566K23... 23.99
20 ft.	200	1.7	3566K24... 28.99

Easy-to-Wrap I

Available constant-wattage cables in fiberglass and polyethylene jackets. Applications requiring rapid warmup, heat tape in pipe, or heat tape in tank. To determine wattage, pipe size is 1/2" thick, single phase. 120 VAC please specify.

1/2" Wd.

Watts	Watts/ft.	Each
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72... 36... 3631

144... 36... 3631

216... 36... 3631

288... 36... 3631

360... 36... 3631

432... 36... 3631

504... 36... 3631

576... 36... 3631

648... 36... 3631

720... 36... 3631

792... 36... 3631

864... 36... 3631

936... 36... 3631

1008... 36... 3631

1080... 36... 3631

1152... 36... 3631

1224... 36... 3631

1296... 36... 3631

1368... 36... 3631

1440... 36... 3631

1512... 36... 3631

1584... 36... 3631

1656... 36... 3631

1728... 36... 3631

1800... 36... 3631

1872... 36... 3631

1944... 36... 3631

2016... 36... 3631

2088... 36... 3631

2160... 36... 3631

2232... 36... 3631

2304... 36... 3631

2376... 36... 3631

2448... 36... 3631

2520... 36... 3631

2592... 36... 3631

2664... 36... 3631

2736... 36... 3631

2808... 36... 3631

2880... 36... 3631

2952... 36... 3631

3024... 36... 3631

3096... 36... 3631

3168... 36... 3631

3240... 36... 3631

3312... 36... 3631

3384... 36... 3631

3456... 36... 3631

3528... 36... 3631

3600... 36... 3631

3672... 36... 3631

3744... 36... 3631

3816... 36... 3631

3888... 36... 3631

3960... 36... 3631

4032... 36... 3631