

**TASK ORDER NO. 010**

**TASK ORDER NAME: Switch Heater & Switch Machine Replacement**

**PROJECT CODE: SGR404 40-7404.68912**

This is Task Order No. 010 to the On Call Maintenance Contract entered into by and between Utah Transit Authority (UTA) and Rocky Mountain System Services. (Contractor) as of February 2nd, 2021.

This Task Order is part of the On Call Maintenance Contract and is governed by the terms thereof.

The purpose of this Task Order is to specifically define the scope, schedule, lump sum price, and other terms applicable to the work identified herein.

UTA and Contractor hereby agree as follows:

**1.0 SCOPE OF SERVICES**

The scope of work for the Task Order #010 is hereby attached and incorporated into this Task Order.

**2.0 SCHEDULE**

The Substantial Completion Date for this Task is December 31<sup>st</sup>, 2021. The Final Acceptance Date for this Task is December 31<sup>st</sup>, 2021.

**3.0 LUMP SUM PRICE**

The price for this task order is a not to exceed \$472,086.00. Invoices will be billed on monthly basis for work completed to date.

**4.0 APPLICABILITY OF FEDERAL CLAUSES**

This Task Order does  does not  [Check Applicable] include federal assistance funds which requires the application of the Federal Clauses appended as Exhibit D to the On Call Maintenance Contract.

IN WITNESS WHEREOF, this Task Order has been executed by UTA and the Contractor or its appointed representative

UTAH TRANSIT AUTHORITY:

ROCKY MOUNTAIN SYSTEM SERVICES:

By: \_\_\_\_\_  
Carolyn M Gonot, Executive Director Date  
> \$100,000

By: \_\_\_\_\_

By: \_\_\_\_\_  
Mary DeLoretto, Chief Service Development Officer Date  
< 100,000

Date: \_\_\_\_\_

By: \_\_\_\_\_  
David Hancock, Director of Asset Mgt. Date  
< \$50,000

By: \_\_\_\_\_  
Jared Scarbrough, Project Manager Date  
< \$10,000

DocuSigned by:  
*Mike Bell*  
361F16F838702A58  
Legal Review

Procurement Review



June 3, 2021

RMSS-52598-011

Mr. Jared Scarbrough  
Manager of Systems Engineering  
2264 South 900 West  
Salt Lake City, UT 84119

Reference: Utah Transit Authority – Systems On-Call Services

Subject: TRAX Switch Heater Replacements

Jared,

Rocky Mountain Systems Services (RMSS) is pleased to provide a proposal for the replacement of several switch point heaters at various locations along the TRAX alignment.

Our lump sum price for this proposal is **\$472,086.00**

The scope of work covered in this proposal is as follows:

RMSS will procure, install, and test twelve (12) new switch point heaters for switches at the following locations:

- Beet Diggers Interlocking associated with the SB1A switch
- Beet Diggers Interlocking associated with the SB1B switch
- Beet Diggers Interlocking associated with the SB3A switch
- Beet Diggers Interlocking associated with the SB3B switch
- Pioneer Interlocking associated with the SP1A switch
- Pioneer Interlocking associated with the SP1B switch
- Cushing Interlocking associated with the SC3A switch
- Cushing Interlocking associated with the SC3B switch
- Lovendahl Interlocking associated with the SL1 switch
- Lovendahl Interlocking associated with the SL5A switch
- Lovendahl Interlocking associated with the SL5B switch
- Sugar Interlocking associated with the SS3 switch

All new units will be configured as follows:

- All existing switch point heaters and ductwork to be demoed and removed
- New units will be gas powered, forced air blower type
- New units will be standard height/profile
- Ne units will have a new control panel for each blower
- All new sensors including:
  - Flame detection sensor
  - Air temperature sensors
  - Rail temperature sensors
  - Airflow (sail) switches



- Snow detectors
- New ductwork for each unit (including tie ducts, track duct, and point nozzles)
- Wireless HAB controller installed in nearby VHLC equipped signal bungalows
  - Wireless HAB controller will provide discrete relay outputs for each individual blower unit which will be wired into a non-vital input of the VHLC to provide current blower status as either "On" or "Off" for each individual blower unit
  - Wireless HAB controller will accept discrete 12VDC inputs for each individual blower unit which will be wired from a non-vital output from the VHLC to provide remote control functionality required to turn the switch heaters on and off remotely.

Additionally, RMSS will procure, install, and test the following for the Rice Interlocking:

- One new switch point heater control panel for electric cal rod switch point heating elements installed in the Rice Interlocking
- New electric cal rods for switch points associated with the following switches at the Rice Interlocking:
  - SR1A
  - SR1B
  - SR3A
  - SR3B

RMSS will perform the following design functions in support of the replacement of all switch point heating systems related to this task order:

- Update location plans to reflect changes to controls and indications (C&I) as well as new equipment in bungalow houses (HAB Controllers, HAB C&I wiring changes)
- Update TDX Control Office to incorporate new controls and Indications for all new equipment

### **Inclusions**

This proposal includes the following additional items:

- Two (2) spare HAB wireless control units
- Up to two days of on-site vendor training for UTA MoW supervisors

### **Clarifications**

1. Testing and commissioning of the new switch point heaters will be performed by key personnel as defined under task order #1 or task order extension. No additional cost has been included for these personnel.

### **Assumptions**

1. Existing power wiring will be used wherever possible for switch heaters
2. Work will be completed at night during non-revenue service hours
3. RMSS will turnover demoed units and ductwork to UTA or place in designated UTA recycle or scrap metal bins



**Exclusions**

1. Training materials and submittals. All training to be “train the trainer” supervisor training in person, on-site with vendor to review the options and features of the wireless HAB controllers
2. Spare parts for blower components, ductwork, and sensors
3. HAB controllers will control HAB units using a wireless link. As such RMSS has not included the wire or conduit cost of running a new 12C#14 to each unit

This proposal is valid for 60 days, unless extended in writing by RMSS.

If you need any additional information, please don't hesitate to contact us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Anthony Ortolani", is positioned below the word "Sincerely,".

Anthony Ortolani  
Project Manager  
Rocky Mountain Systems Services

cc:

Marshall Wilson – RMSS  
Todd Provost - RMSS  
Dan Meservey – RMSS  
Doug Jones – RMSS

\*\*\*Procurement lead times may be affected by Covid-19 pandemic\*\*\*  
Our pricing is in U.S. Dollars, F.O.B. Salt Lake City UT, and excludes all allowances, taxes, tariffs, licenses, and permits

**UTA - On Call**  
**RMSS-52598-011 - TRAX Switch Heaters**  
**Task Order Estimate Summary**



6/3/2021

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Subcontractors	\$	-
Materials	\$	211,485.00
Administrative	\$	19,992.00
Design/Engineering	\$	24,356.00
Construction/Testing	\$	131,464.00
Travel & Perdiem	\$	-
Other Costs and Fee	\$	84,789.00
Total:	\$	<u>472,086.00</u>

**UTA - On Call**  
**RMSS-52598-011 - TRAX Switch Heaters**  
**Task Order Estimate Worksheet**



**TRADE SECRET PROPRIETARY CONTRACTOR INFORMATION**

6/3/2021

**SUBCONTRACTORS**

Quantity      UOM      Price      Extended

**Subtotal - Subcontractors: \$ -**

**MATERIALS**

Quantity      UOM      Price      Extended

Railway Equipment - Switch Heaters	1	LS	\$ 204,735.00	\$ 204,735.00
Freight for Switch Heaters	1	LS	\$ 3,000.00	\$ 3,000.00
Misc. (wire, banding, sealtight)	12	EA	\$ 250.00	\$ 3,000.00
Foundation (Rice cabinet)	1	LS	\$ 750.00	\$ 750.00

**Subtotal - Materials: \$ 211,485.00**

**ADMINISTRATIVE**

Quantity      UOM      Price      Extended

Indirect Labor & Office Personnel

Senior Project Manager	ST	0.0	Hr	\$ -	\$ -
Project Engineer w/ pickup (non-overhead)	ST	160.0	Hr	\$ 124.95	\$ 19,992.00
Safety/Quality Engineer	ST	0.0	Hr	\$ -	\$ -
Document Control Specialist	ST	0.0	Hr	\$ -	\$ -
Project Controls	ST	0.0	Hr	\$ -	\$ -

**Subtotal - Administrative: \$ 19,992.00**

**DESIGN / ENGINEERING**

Quantity      UOM      Price      Extended

Hardware Engineering

Senior Signal Engineer	ST	24.0	Hr	\$ 150.00	\$ 3,600.00
Signal Engineer	ST	12.0	Hr	\$ 112.00	\$ 1,344.00
CADD Technician	ST	36.0	Hr	\$ 50.00	\$ 1,800.00
Manager of CADD	ST	4.0	Hr	\$ 50.00	\$ 200.00
Verification Engineer	ST	24.0	Hr	\$ 150.00	\$ 3,600.00

Software Engineering

Senior Signal Engineer	ST	36.0	Hr	\$ 150.00	\$ 5,400.00
Signal Engineer	ST	0.0	Hr	\$ 112.00	\$ -
Verification Engineer	ST	12.0	Hr	\$ 150.00	\$ 1,800.00

Head-end Engineering

Senior Head-end Engineer	ST	10.0	Hr	\$ 143.57	\$ 1,436.00
Head-end Engineer	ST	56.0	Hr	\$ 51.41	\$ 2,879.00
Verification Engineer	ST	16.0	Hr	\$ 143.57	\$ 2,297.00

**Subtotal - Design: \$ 24,356.00**

**CONSTRUCTION / INSTALLATION / TESTING**

Quantity      UOM      Price      Extended

Construction - General

Construction Manager ST	ST	260.0	Hr	\$ 105.00	\$ 27,300.00
Construction Manager OT (40+)	ST	0.0	Hr	\$ 131.25	\$ -
Systems Construction Labor ST	ST	780.0	Hr	\$ 95.00	\$ 74,100.00
Systems Construction Labor OT (40+)	ST	0.0	Hr	\$ 118.75	\$ -
Systems Construction Labor OT (Sunday)	ST	0.0	Hr	\$ 166.25	\$ -

All Locations - Testing

Signal Test Manager	ST	0.0	Hr	\$ 131.00	\$ -
Signal Test Engineer	ST	0.0	Hr	\$ 111.00	\$ -
Signal Test Support	ST	0.0	Hr	\$ 105.00	\$ -

**UTA - On Call**  
**RMSS-52598-011 - TRAX Switch Heaters**  
**Task Order Estimate Worksheet**



**TRADE SECRET PROPRIETARY CONTRACTOR INFORMATION**

6/3/2021

Signal Test Support OT (40+)	ST	0.0	Hr	\$	131.25	\$	-
Signal Test Support DT (Sunday)	ST	0.0	Hr	\$	183.75	\$	-

**Subtotal - Construction / Install / Testing: \$ 101,400.00**

**EQUIPMENT**

	Quantity	UOM		Price		Extended
<b><u>Construction</u></b>						
Pickup Truck	520.0	Hr	\$	18.00	\$	9,360.00
Trailer	260.0	Hr	\$	14.63	\$	3,804.00
Mini Ex	260.0	Hr	\$	52.00	\$	13,520.00
Specialty tools	260.0	Hr	\$	13.00	\$	3,380.00

**All Locations - Testing**

Pickup Truck	0.0	Hr	\$	18.00	\$	-
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**Subtotal - Equipment: \$ 30,064.00**

**TRAVEL & PERDIEM**

	Quantity	UOM		Price		Extended
Test Engineer - T&E	0.0	Man-weeks	\$	2,000.00	\$	-
Application & Design	0.0	Man-weeks	\$	2,000.00	\$	-
Senior PM	0.0	Man-weeks	\$	2,000.00	\$	-

**Subtotal - Travel & Perdiem \$ -**

**OTHER**

	Quantity	UOM		Price		Extended
ST&S	1.00	LS	\$	1,000.00	\$	1,000.00

**Subtotal - Other: \$ 1,000.00**

**TOTALS**

<b>Subtotal Direct Costs</b>						<b>\$ 388,297.00</b>
<b>Fee</b>		12.5%	\$	388,297.00	\$	<b>48,537.00</b>
<b>Subtotal Costs with Fee</b>						<b>\$ 436,834.00</b>
<b>Contingency</b>		7.0%	\$	436,834.00	\$	<b>30,578.00</b>
<b>Subtotal Cost with Provisional Sum</b>						<b>\$ 467,412.00</b>
<b>Bond Premium</b>		0.0%	\$	467,412.00	\$	<b>-</b>
<b>Job Related Insurance</b>		1.0%	\$	467,412.00	\$	<b>4,674.12</b>
<b>Tax</b>		0.0%	\$	388,297.00	\$	<b>-</b>
<b>TOTAL PRICE - RMSS</b>						<b>\$ 472,086.00</b>