

TASK ORDER NO. 012

TASK ORDER NAME: 4700 South Queue Cutter

PROJECT CODE: MSP189; 40-3189.68912

This is Task Order No. 012 to the On Call Maintenance Contract entered into by and between Utah Transit Authority (UTA) and Rocky Mountain Systems Services, (Contractor) as of February 24th, 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 #012 is hereby attached and incorporated into this Task Order.

2.0 SCHEDULE

The Substantial Completion Date for this Task is December 31st, 2022. The Final Acceptance Date for this Task is December 31st, 2022.

3.0 LUMP SUM PRICE

The price for this task order is a not to exceed \$336,443.00. 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 SYSTEMS SERVICES:

By: _____
Jay Fox, Executive Director Date
> \$100,000

By: DocuSigned by:
Anthony Ortolani _____
10878142E14930...

By: _____
Mary DeLoretto, Chief Service Development Ofc. Date
< 100,000

Date: 2/9/2022

By: _____
Dave Hancock, Director of Capital Construction Date
< \$50,000

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

DocuSigned by:
Mike Bell _____
381F16E838704A9
Legal Review

Procurement Review



June 7, 2021

RMSS-52598-012

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: 4700 South Queue Cutter UDOT PIN 11085

Jared,

Rocky Mountain Systems Services (RMSS) is pleased to provide a proposal for the 4700 South Queue Cutter and wayside crossing signaling upgrades.

Our lump sum price for this proposal is **\$336,443.00**

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

General Overview

UDOT has requested a queue cutter to be added at the 4700 South and 5600 West grade crossings on the Garfield line as part of the road widening project at 4700 South. Additionally, as part of the upgrades to this location, two (2) existing gate mechanisms will be relocated (demo existing and install new), and an additional new island gate mechanism will also be installed. The existing railroad signal house will be replaced (demo existing house and install new) as well.

The current configuration, as of October 2020 and as verified by UTA, is designed for 30 seconds of warning time with an additional 5 seconds of existing advanced preemption time for a total of 35 seconds. The HXP runs a traffic control relay (TCR) off the AX1 output with a warning time set at 35 seconds. The interconnect in between the traffic control cabinet and the wayside signal house consists of a four-conductor cable which terminates on a six-post terminal block mounted in an enclosure on the outside of the signal house. 4700 South and 5600 West use frequency selectable shunts for the crossing starts.

UDOT Request

UDOT requests advanced preemption at 5600 West and 4700 South

- 4700 South
 - 24 Seconds of advanced preemption time requested
- 5600 West
 - 29 Seconds of advanced preemption time requested

UDOT requests a 7 conductor #14AWG (7C#14) copper interconnect. This is an upgrade from the current four conductor cable.



The scope of work for this proposal is as follows:

Design

RMSS and our subcontractors will:

- Review UDOT preemption forms to produce a revised set of circuit plans as needed to incorporate requests from UDOT
 - Produce IFR, IFC, and AIS circuit plans for 4700 South Grade Crossing
 - Submit CAD and PDF files for As-In Service Plans
- Produce product submittals for all new hardware for UTA review and approval
- Determine appropriate frequencies for frequency selectable shunts at 4700 South and 5600 West

Procurement

RMSS will procure:

- Three (3) Western Cullen Hayes gate mechanism assemblies including crossing arms, lights, and foundations
- One (1) furnished and wired 6x6 signal house with:
 - GCP 4000 (configured at factory)
 - SSCC III
 - Two (2) battery banks
 - Three (3) Vital Relays (Gate Down, TCR, Slow release)
 - Surge Panels
- Signal cable as needed for gate mechanisms
- Three (3) frequency selectable shunts (frequency range TBD)
- Two (2) Blank out signs with masts and foundations

Construction

RMSS will perform the following construction activities:

- Coordination with UDOT, UPRR, UTA, and other stakeholders as needed
- Demo two (2) existing gate mechanism assemblies, including foundations
- Demo existing one (1) existing signal house
- Demo existing track leads at 4700 South Island location
- Install and configure one (1) new signal house including signal components
- Relocate existing pre-emption box from the side of the existing signal house to the new signal house.
- Tape and coil spare cable in pre-emption box on the side of the new house
- Install and configure three (3) new gate mechanism assemblies including foundations, gate arms, and lights
- Install pull boxes as needed to extend conduit runs from existing gate locations to new gate locations
- Install conduit as needed to connect new signal house to new gate mechanisms
- Install new cable from signal house to gate mechanisms
- Remove existing shunts and install four (4) new frequency selectable shunts
- Install new utility AC power connection from new meter location to new signal house
- Install new 2C#6 cable in new island location at 4700 South (reuse existing conduit where possible)



- Coordination of interconnect configuration with UDOT and/or Pinetop Engineering, LLC.

Testing

RMSS will perform the following testing and commissioning activities:

- Develop and execute all stand-alone and integrated test forms
- Megger all new signal cable after installation
- Fully test and commission 4700 South and 5600 West
- Support final traffic signal integration and testing

Clarifications

- The HXP platform that is currently in use is generally unavailable. Per the direction of UTA this proposal assumes the use of the GCP4000 platform in the new signal house.
- Testing and commissioning activities to be completed using key personnel as defined under task order #1 or task order extension. This proposal does not include additional cost for these personnel.
- Sales tax is included in this proposal for the destination of all permanent material.

Exclusions

1. Traffic signal interface cabling installed by others
2. Traffic signal interface conduit by others
3. Traffic signal cabinet procurement, install, and testing
4. Traffic signal components required for queue cutter
5. Phased installation to support multiple traffic patterns
6. Traffic control
7. Flagging
8. Permitting

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 above the typed name.

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, tariffs,
licenses, and permits

UTA - On Call
4700 South Queue Cutter
Task Order Estimate Summary



6/7/2021

Subcontractors \$	119,262.00
Materials \$	79,765.00
Administrative \$	27,712.00
Design/Engineering \$	-
Construction/Testing \$	47,990.00
Travel & Perdiem \$	-
Other Costs and Fee \$	61,714.00
Total: \$	<u>336,443.00</u>