

Utah Transit Authority 669 West 200 South Salt Lake City, Utah 84101 P: +18017433882

Task Order Request #TO 25-009 - 1300 S Ped Xing & Queue Cutter

Status	Open	Assignees	Dean Hansen
Created Date	Apr 18, 2025	Issued Date	Apr 18, 2025

TASK ORDER IDENTIFICATION

Contract No	24-03814		
Contractor Name ("Contractor")	ROCKY MOUNTAIN SYSTEMS SERVICES	Contract Start Date	06/14/24
Account Code(s)	40-7403.65000.5008 TO 25-009 1300S Ped Xing 40-7403.68000.8002 TO 25-009 1300S Ped Xing 40-7403.65000.5001 TO 25-009 1300S Ped Xing 40-7403.68000.8003 TO 25-009 1300S Ped Xing	g & Queue Cutter: Hardwa g & Queue Cutter: Enginee g & Queue Cutter: Train Co g & Queue Cutter: PM (\$60	re (\$19,483.30) •ring (\$113,613.00) •ntrol and Signals (\$84,505.00)).007.18)

1.0 SCOPE OF SERVICES

The contractor's	<u>25-009</u>
scope letter and	<u>52720</u>
price estimate is	
hereby attached	
and incorporated	
into this Task Order	

9_1300S Ped Xing & Queue Cutter_Proposal -013 Rev1.pdf

2.0 SCHEDULE

The Substantial Completion Date for this Task is	01/02/26	The Final Acceptance Date for this Task is	03/02/26
this Task is		for this Task is	

3.0 PRICING

The pricing agreement for this item is one of the following:	Lump Sum	Invoices will be billed on a monthly basis for completed work to date. The price for this item is in the amount of	\$277,608.48
Provisional Sum	N/A	Independent Cost	25-009 1300S Ped Xing & Queue Cutter ICE.pdf

Provisional Sum Amount (if applicable). Note: Any unused amount of this provisional sum amount will be deducted from the contract upon closeout of the task order.

Independent Cost 25-009_1300S Ped Xing & Queue Cutter_ICE.pdf Estimate (ICE) link, if applicable

4.0 APPLICABILITY OF FEDERAL CLAUSES

Does this Task No Order include federal assistance funds which requires the application of the

If federal assistance N/A funds are anticipated, the UTA **Civil Rights group** has set a Disadvantaged

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Federal Clauses	Business
appended as	Enterprise
Exhibit D to the	participati
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UTAH TRANSIT AUTHORITY:

Required Signatures Explanation	Project Manager \$0 - 24,999 Legal Review \$10k or greater Dir. of Capital Projects \$25k - 74,999 Chief Service Dev. Ofcr. \$75k - 199,999 Executive Director \$200,000+ Procurement/Contracts (for all)
Signature (Legal)	Docusigned by: By: Mile Bull Name: 706787 M258 842 101. Date: 4/22/2025
PM Approval	The costs associated with this item have been measured against the standard schedule of rates and the agreed contract pricing, (where applicable) and have been deemed consistent and appropriate for the proposed scope of work.
Signature (Project Manager)	By: Dean Hansen Name: $\frac{25AB79CEE8F4497}{Dean Hansen}$ Date: $\frac{4/21/2025}{2}$
Director Approval	I have evaluated the content of this task order and the scope of work described in the task ordering agreement and have made the determination that this Task Order is within the scope of work contemplated and described by the contracting parties when they executed the original task ordering agreement.
Signature (Director)	By: Jared Scarbrough Name: Jared Scarbrough Date: 4/22/2025
Signature (Procurement)	By: Name: Date:
Signature (Chief Service Development Officer)	By: David Hancock, Chief Service Development Officer Date:
Signature (Executive Director)	By: Jay Fox, Executive Director Date:
COMPANY:	
COMPANY:	ROCKY MOUNTAIN SYSTEMS SERVICES
RMSS Required Signature Explanation	 Up to \$100K – Josh Lafleur (jlafleur@modrailsystems.com) \$100K - \$500K – Anthony Ortolani (aortolani@modrailsystems.com)

Task Order Request #TO 25-009 - 1300 S Ped Xing & Queue Cutter

- \$500K \$2.5M Shon Tulik (stulik@modrailsystems.com)
- >\$2.5M or Contract Time Extensions Paul Reiger (prieger@modrailsystems.com)

Signature (Contractor)

DocuSigned by: anthony Ortolani By: _1587B142E149430... Anthony Ortolani Name:

Date: 4/22/2025



April 11th, 2025

RMSS-52720-013 Rev1

Mr. Phil Brindle Systems Engineering 2264 South 900 West Salt Lake City, UT 84119

Reference: Utah Transit Authority – Systems On-Call Services

Subject: 1300S Pedestrian Crossing & Queue Cutter

Phil,

Rocky Mountain Systems Services (RMSS) is pleased to provide a proposal for the design, installation, and testing of a pedestrian crossing and support for the UDOT implementation of a queue cutter for the TRAX alignment where it crosses 1300 South in Salt Lake City.

Our lump sum price for this proposal is **\$277.608.48**

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

Affected Locations

The following locations are affected by the scope of work in this proposal:

1300 South Grade Crossing	Paxton Interlocking
Ball Park Interlocking	S9809 Coupler Case
1700 South Grade Crossing	S9816 Coupler Case
S9728 Relay Case	

Design

Under the scope of this proposal RMSS will update the following design elements as needed for affected locations:

- Design Levels
 - All designs will be submitted at the following levels:
 - Issued for Construction (IFC)
 - As-in-service (AIS)
- System Level Design
 - Control line updates
 - Crossing approach updates
- Signal Design
 - Location plans/circuit design
 - o Wayside application software
 - SATS lab testing



Site Specific Scope of Work

The following location specific items are included in this scope of work:

- 1300 South Grade Crossing
- ** Note this location has some overlap with the task order for Station Exempt Sign Removal.
 - \circ $\;$ Add new preemption output and relay from VHLC and additional circuitry as needed
 - Land 7C#14 cable traffic interface cable provided by others
 - Update VLP executive program
 - Convert program to ACE
 - o Update system to support field programmable timers
 - Add new S9797NSBT audio frequency overlay track circuit
 - o Remove XLOK circuitry and logic
 - Remove HON System and related circuitry
 - Revise gate down pushbutton logic to run preemption time prior to dropping gates
 - Consider all multiple train scenarios.
 - Northbound approaches consider future speed decrease to 25 MPH at 1300S, prior to entering crossing.
 - Program delay timers to add sufficient delay to accommodate this speed decrease, without requiring a program change.
- Ballpark Interlocking
 - Logic updates required to pass track circuit status between 1700S to 1300S over existing vital link
- 1700S
 - Logic and plan updates required to:
 - pass track circuit status to 1300S, via Ballpark Interlocking over existing vital links
 - remove logic and circuitry for the out-of-service S9728 switch which has been removed from the field
- S9728RC
 - Remove S9728 switch circuits
- Paxton Interlocking
 - Logic and plan updates required to provide signal delay when approach track is occupied to ensure sufficient warning time for moves out of Paxton siding
 - The new PSO for 1300S will need to be added to Paxton Interlocking because there is not enough available room in the 1300S signal house. This will require the following:
 - Install a 2C#6 track wire from Paxton Interlocking signal house to the mainline rail. This will require conduit and cable to be installed under two tracks to get to the mainline for the S9797 NSBT track circuit
 - Install a 3-1TWPR #14 cable from the Paxton Interlocking signal house to the S9809 coupler case.
 - Install a new 2C#6 track wire connection from the S9816 coupler case to the mainline track for the S9797 NSBT track circuit.
- Paxton Avenue
 - Review location to ensure no changes are required



- S9809 Coupler Case
 - Upgrade the 9809CC to a new and larger coupler case to replace the existing CC that does not have enough room for new couplers.
 - o Add new terminals, track circuit connects, and couplers required for track S9797NSBT
 - Use existing spare conductors between S9809 and 1300S for new track circuit connection
 - Replacement of this coupler case may require an extended working window longer than the normal non-revenue window. This proposal assumes that UTA will be able to coordinate and support an adequate period of access to complete the work.
- S9816 Coupler Case
 - Upgrade the S9816CC to a new and larger coupler case to replace the existing CC that is damaged.
 - Use PDF provided by UTA to redraw location in CAD
 - o Add new terminals, track circuit connects, and couplers required for track S9797NSBT
 - \circ ~ Use existing spare conductors between S9816 and 1300S for new track circuit connection
 - o Remove existing HON systems circuitry
 - Replacement of this coupler case may require an extended working window longer than the normal non-revenue window. This proposal assumes that UTA will be able to coordinate and support an adequate period of access to complete the work.

Procurement

The following items will be procured under this scope of work:

Item Description	Unit	Base Quantity	Spare Quantity	Total Quantity
1300S Materials				
Pre-emption Output Relay	EA	1	0	1
VHLC EPROM	EA	1	0	1
PSO Transceiver	EA	1	1	2
House Materials (wire, terminals, etc.)	LS	1	0	1
S9809 Coupler Case				
PSO Coupler for TC S9797NSBT	EA	1	1	2
Track connection kit	EA	1	1	2
House Materials (wire, terminals, etc.)	LS	1	0	1
New Coupler Case	EA	1	0	1
S9816 Coupler Case				
PSO Coupler for TC S9797NSBT	EA	1	1	2
Track connection kit	EA	1	1	2
House Materials (wire, terminals, etc.)	LS	1	0	1
New Coupler Case	EA	1	0	1

Deliverables

Ther following deliverables are included in the scope of this proposal:

CDRL #	Deliverable Description	Level
CDRL-PTO039-001	1300S Circuit Plans	IFC
CDRL-PTO039-002	1300S Wayside Application Software	IFC
CDRL-PTO039-003	Ballpark Interlocking Circuit Plans	IFC
CDRL-PTO039-004	Ballpark Interlocking Wayside Application Software	IFC



CDRL-PTO039-005	1700S Grade Crossing Circuit Plans	IFC
CDRL-PTO039-006	1700S Grade Crossing Wayside Application Software	IFC
CDRL-PTO039-007	S9728RC Circuit Plans	IFC
CDRL-PTO039-008	Paxton Interlocking Circuit Plans	IFC
CDRL-PTO039-009	Paxton Interlocking Wayside Application Software	IFC
CDRL-PTO039-010	S9809 Coupler Case Circuit Plans	IFC
CDRL-PTO039-011	S9816 Coupler Case Circuit Plans	IFC
CDRL-PTO039-012	NS Mainline Control Lines	IFC
CDRL-PTO039-013	Crossing Approach Plans	IFC
CDRL-PTO039-014	Testing & Commissioning Plan	IFC
CDRL-PTO039-015	1300S Circuit Plans	AIS
CDRL-PTO039-016	1300S Wayside Application Software	AIS
CDRL-PTO039-017	Ballpark Interlocking Circuit Plans	AIS
CDRL-PTO039-018	Ballpark Interlocking Wayside Application Software	AIS
CDRL-PTO039-019	1700S Grade Crossing Circuit Plans	AIS
CDRL-PTO039-020	1700S Grade Crossing Wayside Application Software	AIS
CDRL-PTO039-021	S9728RC Circuit Plans	AIS
CDRL-PTO039-022	Paxton Interlocking Circuit Plans	AIS
CDRL-PTO039-023	Paxton Interlocking Wayside Application Software	AIS
CDRL-PTO039-024	S9809 Coupler Case Circuit Plans	AIS
CDRL-PTO039-025	S9816 Coupler Case Circuit Plans	AIS
CDRL-PTO039-026	NS Mainline Control Lines	AIS
CDRL-PTO039-027	Crossing Approach Plans	AIS
CDRL-PTO039-028	Task Order Closeout Form w/ UTA Quality Form	AIS

Execution Timeline

The attached execution timeline shows the anticipated duration for the execution of this work. Exact dates will be mutually determined between RMSS and UTA once task order prioritization can be clearly defined at the time of execution.

Assumptions

- 1. All new audio frequency overlay track circuits will be Siemens PSO
- 2. All testing will be completed using key personnel
- 3. This proposal does not include any material escalation. RMSS reserves the right to recover any costs incurred as a result of material price changes.

Exclusions

- 1. Updates to locations not specifically called out in this proposal
- 2. Corrections for legacy issues or inaccuracies not specifically called out in this proposal

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, (Int)

Anthony Ortolani Rocky Mountain Systems Services

cc:

Dean Hansen - UTA Marshall Wilson – RMSS Josh LaFleur – RMSS

Our pricing is in U.S. Dollars, F.O.B. Salt Lake City UT, and excludes all allowances, taxes, tariffs, licenses, and permits

UTA Systems On-Call Services 2024 - 2029 PTO-039: 1300S Pedestrian Crossing Queue Cutter

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PROJECT MANAGEMENT																																	
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2	Update CPM Schedule to Include Task Order	1	4W																														
3	Project Closeout Report	34,44, 52,63	2W																														
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15	S9728RC Circuit Plans - IFC	13	2W																														
16	UTA Review & Comment/Approve Submittal	15	3W																														
17	Paxton Interlocking Circuit Plans - IFC	15	2W																														
18	UTA Review & Comment/Approve Submittal	17	3W																														
19	S9809 Coupler Case Circuit Plans - IFC	17	2W																														
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21	S9816 Coupler Case Circuit Plans - IFC	19	2W																														
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23	1300S Wayside Application Software - IFC	1	2W																														
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25	Ballpark Interlocking Wayside Application Software - IFC	23	2W																														
26	UTA Review & Comment/Approve Submittal	25	3W																														
27	1700S Grade Crossing Wayside Application Software - IFC	25	2W																														
28	UTA Review & Comment/Approve Submittal	27	3W																														
29	Paxton Interlocking Wayside Application Software - IFC	27	2W																														
30	UTA Review & Comment/Approve Submittal	29	3W																														
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39 Ballpark Interlocking Circuit Plans - AIS	37	1W																												
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41 Ballpark Interlocking Wayside Application Software - AIS	39	1W																						í T						
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47 S9728RC Circuit Plans - AIS	45	1W																												-
48 UTA Review & Comment/Approve Submittal	47	3W																												
49 Paxton Interlocking Circuit Plans - AIS	47	1W																												-
50 UTA Review & Comment/Approve Submittal	49	3W																												-
51 Paxton Interlocking Wayside Application Software - AIS	49	1W																												
52 UTA Review & Comment/Approve Submittal	51	3W																												-
PROCUREMENT																														
53 House Materials (Tefzel, posts, wagos, labels, etc.)	8	8W	Π																	Π						Τ			Τ	1
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54 Procure Siemens Materials (Trancievers, PSO Couplers, Relays)	8	18W																										1		
CONSTRUCTION / TESTING		•		-																										
55 Install house wiring changes at 1300S	11	1W																												
56 Remove wiring for S9728 switch from 1700S	15	2D																												
57 Remove wiring for S9728 switch from S9728RC	17	2D																												
58 Install S9797NSBT track circuit equipment at S9809CC	21, 55	2D																												
Install track S9797NSBT track circuit equipment at S9816CC &																														
59 Remove HON system circuitry	23, 55	2D																						1						
60 MILESTONE - All IFC Design and Installation Complete		0																								1			Τ	
61 Adjust pre-emption timing & test at affected locations	62	1D																								1			Τ	
62 MILESTONE - Municipality Stakeholders Ready for Queue Cutter		0																						\square	\top	1	\square			-
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63 Support queue cutter installation and testing activities	62, 63	1D																						1				. [

NOTES:

1) Durations are approximate and include CAD, Verification, and Lab Testing

2) Design may be produced in batches to support lab testing activities

3) Procurement times are estimates based on past procurements and are subject to change

4) Design may not begin immediately upon NTP depending on ongoing design work and UTA priorities at the time of execution.