

IN THE COUNTY LEGISLATURE OF JACKSON COUNTY, MISSOURI

A RESOLUTION authorizing the County Executive to execute an amendment to the engineering design service contract with Burns and McDonnell Engineering Co., LLC, relating to the Rock Island Rail Corridor Shared Use Path Project for additional services, at a cost to the County not to exceed \$151,150.00.

RESOLUTION NO. 20066, December 3, 2018

INTRODUCED BY Dennis Waits, County Legislator

WHEREAS, by Resolution 19297, dated October 24, 2016, the Legislature did award a contract to Burns & McDonnell on Request for Qualifications No. 44-15 for design and engineering services relating to the Rock Island Rail Corridor Shared Use Path Project; and,

WHEREAS, the Rock Island Rail Corridor Authority recommends an amendment to this contract; and,

WHEREAS, changes to the design were made to reduce the need for easements and grading on neighboring residential properties; and,

WHEREAS, this lowered project cost has helped maintain positive relationships with neighbors; and,

WHEREAS, the attached agreement sets out the rights and obligations of each party and the anticipated construction period services for the upcoming construction project; now

therefore,

BE IT RESOLVED by the County Legislature of Jackson County, Missouri, that the County Executive be and hereby is authorized to execute the Amendment to the Agreement with Burns & McDonnell, in a form to be approved by the County Counselor; and,

BE IT FURTHER RESOLVED that the Director of Finance and Purchasing be and hereby is authorized to make all payments, including final payment on the contract and amendment thereto.

Effective Date: This Resolution shall be effective immediately upon its passage by a majority of the Legislature.

APPROVED AS TO FORM:

[Signature]
Chief Deputy County Counselor

[Signature]
County Counselor

Certificate of Passage

I hereby certify that the attached resolution, Resolution No. 20066 of December 3, 2018, was duly passed on December 3, 2018 by the Jackson County Legislature. The votes thereon were as follows:

Yeas 8

Nays 0

Abstaining 0

Absent 1

12.3.18
Date

[Signature]
Mary Jo Spino, Clerk of Legislature

There is a balance otherwise unencumbered to the credit of the appropriation to which the expenditure is chargeable and there is a cash balance otherwise unencumbered in the treasury to the credit of the fund from which payment is to be made each sufficient to provide for the obligation herein authorized.

ACCOUNT NUMBER: 014 3601 58020
ACCOUNT TITLE: Special Obligation Bond Fund
Rock Island Rail Corridor
Buildings & Improvements
NOT TO EXCEED: \$151,150.00

11/29/18
Date

[Signature]
Chief Administrative Officer



AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT
ENGINEER-OWNER AGREEMENT

AMENDMENT No. 1

Date: November 26, 2018

THIS AMENDMENT modifies the Agreement dated November 8, 2016 made by and between Burns & McDonnell Engineering Company, Inc., (hereinafter called ENGINEER), and Jackson County, Missouri (hereinafter called COUNTY) for the following Project: Planning and Design of the Rock Island Corridor Shared Use Path Project located in Jackson County, Missouri. For good and valuable consideration, the sufficiency of which is acknowledged, the parties agree to make the following changes to their Agreement.

1. The parties agree that the ENGINEER's Scope of Services is amended per ENGINEER's and Sub Contulant's proposal letters attached hereto as EXHIBITs A, B, and C.

2. The net adjustment resulting from the revised scope of services are made to the ENGINEER's compensation as substantiated in EXHIBITS A-C and summarized in EXHIBIT D shall be an additional \$151,150.00. The revised not-to-exceed fee shall be \$2,035,800.

3. The time for completion of ENGINEER's Services is adjusted as follows:

3.1 Construction Phase Services for Segment 1 (Brickyard Road to Jefferson Street) will be completed no later than March 31, 2019.

3.2 Final Plans and Bid Services for Segment 2 (Blue Ridge Cutoff to Brickyard Road) will be completed no later than January 31, 2019.

3.3 Construction Phase Services for Segment 2 (Blue Ridge Cutoff to Brickyard Road) will be completed no later than December 31, 2019.

4. Other changes to the Agreement, if any, are stated below:
NONE

5. The terms of this AMENDMENT supersede any contrary terms of the Agreement. This AMENDMENT will be deemed a part of, and be subject to, all other terms and conditions of the Agreement. Except as modified above, the Agreement will remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this AMENDMENT the day and year first written above.

THIS AGREEMENT CONTAINS A BINDING ARBITRATION PROVISION, WHICH MAY BE ENFORCED BY THE PARTIES.

COUNTY: Jackson County, Missouri

ENGINEER: Burns & McDonnell Engineering Company, Inc.

By: _____

By: _____

Name: Frank White, Jr.

Name: Benjamin J. Biller, P.E.

Title: County Executive

Title: Vice President

APPROVED AS TO FORM

ATTEST: *

County Counselor

Clerk of the County Legislature



November 26, 2018

Mr. Matt Davis
Development Manager
Jackson County / Rock Island Rail Corridor Authority
22501 Woods Chapel Road
Blue Springs, MO 64015

Re: Rock Island Shared Use Path Project
Proposed Scope and Fee Modifications

Dear Mr. Davis:

As discussed on the phone, the County has requested additional scope of work to be completed by our Team. Burns & McDonnell, TranSystems, and Gateway Geotechnical have each been required to complete additional work. The following outlines the additional scope of work requested of Burns and McDonnell. The additional scope of work requested of TranSystems and Gateway Geotechnical are included in subsequent proposals from each of those firms and included with this amendment.

Additional Scope of Services – Burns & McDonnell

1. Provide ongoing project management activities throughout the completion of construction of the Rock Island Shared Use Path Segment 1.
2. Address Requests for Information (RFI's) that originate from the field during construction.
3. Complete plan revisions for various reasons as requested from the field during construction.
4. Complete structural shop drawing reviews as requested from the field during construction.

Additional Scope of Services – TranSystems


1. As indicated in the letter proposal from TranSystems.

Additional Scope of Services – Gateway Geotechnical

1. As indicated in the letter proposal from Gateway Geotechnical.
2. Not included in proposal letter but requested and verbally approved to hire a contractor to complete clearing required for the completion of geotechnical investigations (\$3,000).

Again, thank you for the opportunity to allow this team to serve the County on the Rock Island Corridor project.

Sincerely,


DAVID HURT, PE
Project Manager

ROCK ISLAND CORRIDOR SHARED USE PATH
Jackson County, Missouri



August 16, 2018

Scope of Services	Off. 18	Prin. 17	Associate Engineer				Senior Engineer			Staff Eng/Designer			Assistant Eng/Planner 9	Tech 6	G.O. 5	Total	
			16	15	14	13	12	11	10	9	8	7					
PHASE 2 - FINAL DESIGN AND CONTRACT DOCUMENTS																	
TASK 6: PROJECT ADMINISTRATION																	
6.1 Project Administration																	
6.1.1 Update P.M. Activities																	8
TASK 10: CONSTRUCTION PHASE SERVICES																	
10.1 Address RFI's from the field																	28
10.2 Complete plan revisions requested from the field																	40
10.3 Complete structural shop drawing review																	8
TOTAL LABOR HOURS PHASE 2	0	0	0	48	0	0	0	0	0	0	36	0	0	0	0	0	84

EXHIBIT A

ROCK ISLAND CORRIDOR SHARED USE PATH
Jackson County, Missouri

August 16, 2018



Classification	Hours	Rate	Cost
Corporate Officer			
Level 18	0		\$0.00
Principal			
Level 17	0	\$240.00	\$0.00
Level 16	48	\$235.00	\$11,280.00
Associate			
Level 15	0	\$231.00	\$0.00
Level 14	0	\$218.00	\$0.00
Senior			
Level 13	0	\$209.00	\$0.00
Level 12	0	\$189.00	\$0.00
Staff			
Level 11	36	\$171.00	\$6,156.00
Level 10	0	\$157.00	\$0.00
Assistant			
Level 9	0	\$139.00	\$0.00
Level 8	0	\$119.00	\$0.00
Level 7	0	\$87.00	\$0.00
Technician			
Level 6	0	\$76.00	\$0.00
General Office			
Level 5	0	\$62.00	\$0.00
Labor Total		84	\$17,436.00



2400 Pershing Road, Suite 400
 Kansas City MO 64108
 Tel 816-329-8600
 Fax 816-329-8601

www.transystems.com

Memorandum

To: Dave Hurt, Burns & McDonnell

From: Sara Clark

Date: November 13, 2018

CC: Frank Weatherford, John Zimmermann

Subject: Rock Island Shared Use Path Additional Fee Request – REVISED 3

This memo documents the additional scope items that are required to complete the design of the Rock Island Shared-use Path.

Retaining Wall Design

Scope item 5.4.2 lists the assumption that all retaining walls are large block mechanically stabilized earth (MSE) wall systems with concrete foundations. The results of the geotechnical review of walls 284-3, 283-4, and 282-3 show that the soil conditions require a different wall type. The wall type required for the soil conditions at walls 284-3 and 283-4 is soldier pile. The wall type at 282-3 is yet to be determined but will likely be a unique design due to the location under the 63rd Street Bridge. This change in wall type will require additional hours to complete the design and plan documentation.

The current construction cost estimate was prepared with contingency included for these walls. Since the designs were not finalized, but expected to be more expensive than big block, the estimate was higher for these locations.

The design for soldier piles was similar to the big block design as there is a standard detail. However, the detail needs to be developed for the site conditions and a design specifications written to a minimum criteria that meets standards.

Retaining walls 281-2, 281-3, and 281-4 were added as a result of the alignment shifts to limit property acquisitions. This change in alignment will require additional hours to complete the design and plan documentation for these walls.

Based on the work required for the three non-MSE retaining walls, TranSystems requests an additional 364 hours (\$48,900).

Trailhead Design

Scope items 8.1.6 (Trailhead Design), 8.1.7 (Lighting), 8.1.8 (Landscape) was to be completed by another firm. Some of these tasks were shifted to TranSystems to either manage or complete. It was more efficient for TranSystems to complete this work as it was an iterative process that in some instances required adjustments to the alignment and other design features. These include

- Field survey of Stadium trailhead
- Base layout of Stadium trailhead
- Base layout of Railroad Street trailhead
- Investigation into trailhead on south side of Woodson Road

EXHIBIT B

- Conceptual layout of trailhead at Brickyard Road
- Detailing interpretive sign supports and adding locations to plans

Based on the work required for the out of scope trailhead design activities completed, TranSystems requests an additional 40 hours (\$6,400). (Note that this includes credits for trailhead lighting tasks that were removed from TranSystems' scope of services.)

Alignment Modifications for Easement Areas

During negotiations with property owners, Jackson County identified areas near tract 9, tract 10, tracts 12 & 13, and tract 14 where modifications to the alignment would assist in limiting acquisitions.

Adjustments to the design for the Raytown Chamber parking lot will be made to address comments made during the easement process.

Based on the work required for the out of scope alignment modifications TranSystems requests an additional 138 hours (\$19,150).

Utility Coordination

Scope item 8.1.1.1, only 20 hours were provided for TranSystems. No support was provided during final design preparation to complete utility coordination, therefore TranSystems completed the required coordination activities. Due to the extensive list of utilities and various levels of impacts it was more efficient and overall beneficial to the project to have direct communication with the utility providers rather than working through another subconsultant.

Based on the work required for the out of scope utility coordination completed, TranSystems requests an additional 40 hours (\$6,400).

Bid Alternate Plan Revisions

Jackson County requested that TranSystems prepare a Bid Alternate Plan set that considers a reduction in project scope to meet potential construction budget constraints. This requires the plan set to be revised to identify the bid alternate location and provide quantities and information related to the alternate project.

Based on the anticipated work required for construction services, TranSystems requests an additional 96 hours (\$15,384).

Construction Services

In anticipation of the need to provide construction phase services, TranSystems has been directed to complete the following construction services items. These reviews assume that the majority of the submittals will be a single submission with minor comments generated. Multiple new submissions on the same item are not included in this scope.

- Shop drawing review:
 - Big block MSE wall
 - Retaining walls
 - Bridge modifications (Raytown Road (timber), 67th Street, 75th Street)
 - Pedestrian bridges (Stadium, Blue Ridge Cutoff, 47th Street, Round Grove Creek, Wildwood)
 - Pedestrian bridge abutments and foundation
 - One field visits is included in this scope at the County's request. No other field visits or attendance at update meetings, regardless of location, are included in this scope.
- Contractor inquiries
 - RFI's responses
 - Change Order review

EXHIBIT B

Based on the anticipated work required for construction services, TranSystems requests an additional 104 hours (\$17,872) for shop drawing review and 36 hours (\$6,608) for contractor inquiries.

The total additional fee requested is \$120,714.

Additional Requested Fee	Project Manager	Trails Discipline Manager	Trail Designer	Bridge Engineer	Hydraulic Engineer	Tech 3	Total Hours	Total Fee
	\$200	\$225	\$110	\$166	\$160	\$100		
Retaining Wall Design		4		160	24	176	364	\$48,900
Trailhead Design					40		40	\$6,400
Alignment Modifications for Easement Areas		38	60			40	138	\$19,150
Utility Coordination					40		40	\$6,400
Bid Alternate Plan Revisions	8	24	40	24			96	\$15,384
Construction Services – Shop Dwg	4	8		92			104	\$17,872
Construction Services – RFIs	4	16	8	8			36	\$6,608
Total	16	90	108	284	104	216	818	\$120,714

	Status
Retaining Wall Design	Complete
Trailhead Design	Complete
Alignment Modifications for Easement Areas	Complete
Utility Coordination	Complete
Bid Alternate Plan Revisions	Not yet started
Construction Services – Shop Dwg	Not yet started
Construction Services – RFIs	Not yet started



148 Chesterfield Industrial Boulevard, Suite E
Chesterfield, Missouri 63005
O 636 532 7747
F 636 294 3027

May 25, 2018

Burns & McDonnell
Attn: Mr. David Hurt, PE, Senior Project Manager
9400 Ward Parkway
Kansas City, Missouri 64114

Reference: Change Order Request for Supplemental Borings
Geotechnical Services
Rock Island Rail Corridor Shared Use Path Project
Jackson County, Missouri
Gateway No. 1609411

Mr. Hurt,

Three supplemental borings have been requested at planned bridges which were not part of the scope at the time of our spring 2017 geotechnical exploration for this project. Accordingly, we request a change order for the supplemental exploration.

The drilling, laboratory testing, and boring log preparation would be completed by TSi Geotechnical under subcontract to Gateway Geotechnical, as an extension of our existing Professional Geotechnical Consultant Agreement dated December 2016. Three supplemental borings (BR-F-1, BR-F-2, and BR-G-1) are planned to depths of 100 feet or auger refusal, whichever occurs first, plus 5 feet of rock coring below the auger refusal depth at each boring. Sampling and laboratory testing would be similar to the scope from our spring 2017 geotechnical exploration. TSi Geotechnical has prepared a cost estimate (enclosed) for the supplemental exploration. Gateway Geotechnical's fees would be only as necessary to incorporate the supplemental information into the geotechnical report or to issue a standalone geotechnical addendum.

Based on TSi's preliminary site reconnaissance, it appears that access to Borings BR-F-1 and BR-F-2 will require tree clearing, as well as written permission to access the boring locations via the adjacent hospital property. The enclosed estimate includes fees associated with the required tree clearing. We anticipate assistance from others to coordinate permission for access through the neighboring property.

Since the depth to auger refusal is not known, the supplemental exploration would be invoiced at the unit rates shown in the Gateway Standard Fee Schedule, the TSi Geotechnical Drilling Unit Rates, and the TSi Geotechnical Laboratory Testing, Equipment, and Engineering Unit Rates, all of which were included as

Geotechnical Design and Construction Solutions

Change Order Request for Supplemental Geotechnical Services
Rock Island Rail Corridor Shared Use Path Project
Jackson County, Missouri

May 25, 2018
Gateway No. 1609411
Page 2

Exhibit 2 in the Professional Geotechnical Consultant Agreement. For budgeting purposes, based on TSi's estimate and our anticipated engineering oversight and reporting, we suggest a budget in the range of \$8,000 to \$10,000 for the supplemental exploration.

If you have any questions or need additional clarification, please let us know.

Respectfully submitted,
GATEWAY GEOTECHNICAL



T. Michael McMillen, PE, D.GE
Director of Geotechnical Services



Shari A. Cunningham, PE
Senior Geotechnical Engineer

Copies: TSi Geotechnical, Inc./Mr. Brian Robben, PE, RG, Geotechnical Department Manager

Enclosure: Geotechnical Study Cost Estimate 2018 by TSi Geotechnical, 2 pages

SAC/TMM/sac

EXHIBIT C

TSI GEOTECHNICAL, INC.

Rock Island Shared Use Path Additional Borings
3 borings to 30 feet with 10 feet of rock core in each boring.

2017 PRICING

TASK	QUANTITY	COST	EXTENSION
Mob/Demob, Local, within 60 miles one-way of TSi Office		@ \$350.00 Lump Sum	\$0.00
Mob/Demob, Local, within 60 miles one-way of TSi Office ATV Rig	1	@ \$500.00 Lump Sum	\$500.00
Mob/Demob, Long dist. each way, beyond 60 miles		@ \$4.75 / mile	\$0.00
Daily Rig Usage Charge ATV	1	@ \$600.00 / day	\$600.00
Daily Truck Usage Charge Support Truck	1	@ \$95.00 / day	\$95.00
Little Beaver Auger Rig		@ \$125.00 / day	\$0.00
2-person Drill Crew (for pavement cores)		@ \$180.00 / hour	\$0.00
Per Diem		@ \$120.00 / day	\$0.00
Concrete Coring		@ \$14.75 / inch	\$0.00
Asphalt Coring		@ \$9.00 / inch	\$0.00
Coring Machine and Generator		@ \$125.00 / day	\$0.00
Continuous Flight Augering 0 to 50'	90	@ \$7.50 / feet	\$675.00
Continuous Flight Augering 51 to 100'		@ \$8.50 / feet	\$0.00
Hollow-Stem Augering (HSA) 0 to 50'		@ \$11.00 / feet	\$0.00
Hollow-Stem Augering (HSA) 51 to 100'		@ \$13.00 / feet	\$0.00
Hollow-Stem Augering (HSA) below 100'		@ \$16.50 / feet	\$0.00
Hard Drilling, Fill, Rubble, etc		@ \$16.50 / feet	\$0.00
Setup to Mud Rotary or Core	3	@ \$120.00 / each	\$360.00
Mud Rotary 0 to 50'		@ \$13.00 / feet	\$0.00
Mud Rotary 51 to 100'		@ \$15.00 / feet	\$0.00
Mud Rotary, Bedrock		@ \$18.50 / feet	\$0.00
Split Spoon Sample (SS) 0 to 50'	21	@ \$12.00 each	\$252.00
Split Spoon Sample (SS) 51 to 75'		@ \$21.00 each	\$0.00
Split Spoon Sample (SS) 76 to 100'		@ \$39.00 each	\$0.00
Split Spoon Sample (SS) below 100'		@ \$43.00 each	\$0.00
Shelby Tube Sample (ST) 0 to 50'	3	@ \$27.00 each	\$81.00
Shelby Tube Sample (ST) 51 to 75'		@ \$38.00 each	\$0.00
Shelby Tube Sample (ST) 76 to 100'		@ \$45.00 each	\$0.00
Shelby Tube Sample (ST) below 100'		@ \$48.00 each	\$0.00
Setup on Borings 10' or Less		@ \$25.00 each	\$0.00
Asphalt Repair, Remove Cuttings		@ \$45.00 each	\$0.00
Rock Coring 0 to 50'	30	@ \$35.00 / feet	\$1,050.00
Rock Coring 51 to 100'		@ \$46.50 / feet	\$0.00
Rock Coring below 100'		@ \$48.00 / feet	\$0.00
Core Boxes	3	@ \$12.50 / each	\$37.50
Standby, load and unload (1 hour between borings)		@ \$180.00 / hour	\$0.00
Sand Backfill Borings		@ \$7.00 / foot	\$0.00
Piezometer Installation		@ \$180.00 / hour	\$0.00
2" PVC SCREEN		@ \$5.25 / feet	\$0.00
2" PVC Riser		@ \$7.75 / feet	\$0.00
Flush Mount and Lock		@ \$300.00 each	\$0.00
Bumper Post - 5 Feet Long, Steel		@ \$104.50 each	\$0.00
Bentonite Chips		@ \$17.75 / bag	\$0.00
Filler Sand		@ \$13.50 / bag	\$0.00
Ready Mix		@ \$8.25 / bag	\$0.00
Packer Test Equipment		@ \$210.00 / day	\$0.00
Local Travel		@ \$1.35 / mile	\$0.00
2" Centrifugal Trash Pump		@ \$40.00 / day	\$0.00
Chainsaw Rental		@ \$65.00 / day	\$0.00
Safety Training		@ \$180.00 hour	\$0.00
Dynamic Cone Penetrometers		@ \$90.00 each	\$0.00
Backhoe Rental (testpits)		@ \$500.00 /day	\$0.00
Maryland Infiltration Test		@ \$500.00 each	\$0.00
Read Infiltration Test		@ \$75.00 hour	\$0.00
		Total	\$3,650.50

EXHIBIT C

Geotechnical Study Cost Estimate 2018

Proposal No.: 3 borings to 30 feet with 10 feet of rock core in each boring. Date: 5/22/2018 p. 1 of 2
 Project Name: Rock Island Shared Use Path Additional Borings By: BW
 No. Borings:

PLANNING/START UP	Principal	Grp. Mgr.	Engr. VI	Engr. II	Eng I/Tech	Clerical	Fee
							\$0.00

FIELD INVESTIGATION

Engineering

Meetings - Scope, Various, Lit Review							
Review Info and Utilities					2		
Traffic Control Coordination/Permits							
Drilling Supervision/Observation							
Daily Truck Usage @ \$45.00							Subtotal \$0.00

Unit Drilling Prices

Drill Rig and Crew, Detailed Estimate on Sheet 2							\$3,650.50
City Excavation Permit (Verify Cost) @ \$150.00 each							\$0.00
MoDNR Piezo Permit @ \$135.00 each							\$0.00
Piezo/Well Protector @ \$168.00 each for stick up							\$0.00
Piezo/Well Protector @ \$300.00 each for flush mount							\$0.00
Tree Clearing 8 @ \$180.00 per hour							\$1,440.00
Safety Cones and Signage @ \$200.00 per day							\$0.00
Traffic Control @ \$1,500.00 per day							\$0.00
Subtotal Drill + Markup 0%							\$5,090.50

LABORATORY TESTING

Supervision

Moisture Content 24 @ \$4.50							\$108.00
Extrusion 3 @ \$15.00							\$45.00
Unit Weight 3 @ \$25.00							\$75.00
Unconfined Compression 3 @ \$55.00							\$165.00
Atterberg Limits 6 @ \$70.00							\$420.00
Sieve (no hydrometer) @ \$70.00							\$0.00
Hydrometer @ \$70.00							\$0.00
Direct Shear (3 pt) @ \$850.00							\$0.00
1-D Consolidation @ \$450.00							\$0.00
CBR/Modified Proctor @ \$625.00							\$0.00
Rock - Unconfined Compr. @ \$65.00							\$0.00
Core Photos 3 @ \$35.00							\$105.00
Subtotal/Lab:							\$918.00

ANALYSIS AND REPORT PREPARATION

Report Documents

Vicinity Map							
Site and Boring Location Plan							
Boring Logs							
Subsurface Profiles (gINT)							
Tables							

Analysis

Foundation Recommendations							
Settlement							
Dewatering/Infiltration Considerations							
Lateral Earth Pressures							
Construction Considerations							
Subgrade Preparation							
Pavement Recommendations							

Report Preparation

Manhours							
----------	--	--	--	--	--	--	--

GEOTECHNICAL STUDY TOTAL

Manhour Total	0	0	0	0	2	0	
Hourly Fee	\$65.00	\$66.50	\$52.00	\$34.66	\$25.00	\$15.00	
Labor Fee	\$0.00	\$0.00	\$0.00	\$0.00	\$50.00	\$0.00	
					Subtotal Engr. Cost		\$50.00

Labor _ Overhead @ FAR 1.6898 \$84.49

Profit @ 12% \$16.14

PROJECT TOTAL: \$150.63

EXHIBIT D

ROCK ISLAND CORRIDOR SHARED USE PATH
Jackson County, Missouri

November 26, 2018



Amendment ¹ Fee Summary

Firm	Additional Fee
Burns & McDonnell	\$17,436.00
TranSystems	\$120,714.00
Gateway Geotechnical	\$10,000.00
Gateway Geotechnical (Additional Clearing)	\$3,000.00
Total Additional Fee	\$151,150.00