

## APPENDIX F - PROJECT ESTIMATE

<b>Estimate of Project Costs - Phase 1</b>
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Project Sponsor: City of Saint Charles Missouri
Project Title: Bangert Island Riverfront Transformation Project - Phase 1
Date: July 15, 2019

<b>Specific Roadway Items Within Phase 1 Area</b>
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Item	Quantity	Unit	Unit Price	Amount
Clearing and Grubbing	1	LS	\$100,000.00	\$100,000.00
Removal of Improvements	1	LS	\$100,000.00	\$100,000.00
Class "A" Excavation	619,628	CY	\$4.00	\$2,478,512.00
Embankment in Place	433,740	CY	\$2.00	\$867,480.00
Compacting Embankment	433,740	CY	\$2.00	\$867,480.00
Curb & Gutter	10,851	LF	\$25.00	\$271,277.00
Type 5 Aggregate Base (4" thick)	21,466	SY	\$7.20	\$154,558.00
2" - Asphaltic Concrete Mixture PG 70-22 (SP125 Mix)	17,247	SY	\$8.00	\$137,972.00
8" - Bituminous Pavement Mixture PG 70-22 (BP-2)	17,247	SY	\$31.50	\$543,265.00
Tack Coat (SS-1H)	1,300	GAL	\$2.50	\$3,250.00
Crystal Spring Bridge (Substructure/Superstructure)	1,263	SF	\$200.00	\$252,661.00
Bridge Approach Slab	132	SY	\$260.00	\$34,354.00
Safety Barrier Curb (Culvert)	468	LF	\$125.00	\$58,556.00
Bridge Removal	1,263	SF	\$50.00	\$63,165.00
Type 2 Rock Blanket	9,827	CY	\$35.00	\$343,954.00
12-Inch Watermain (All Inclusive)	2,724	LF	\$110.00	\$299,640.00
Manhole	5	EA	\$2,500.00	\$12,500.00
Standard Curb Inlet	36	EA	\$3,000.00	\$108,000.00
Large Pipe Curb Inlet	5	EA	\$4,000.00	\$20,000.00
18" Reinforced Concrete Pipe	1,148	LF	\$46.00	\$52,808.00
24" Reinforced Concrete Pipe	1,077	LF	\$68.00	\$73,236.00
30" Reinforced Concrete Pipe	691	LF	\$80.00	\$55,280.00
36" Reinforced Concrete Pipe	258	LF	\$98.00	\$25,284.00
48" Reinforced Concrete Pipe	217	LF	\$115.00	\$24,955.00
54" Reinforced Concrete Pipe	420	LF	\$130.00	\$54,600.00
60" Reinforced Concrete Pipe	164	LF	\$150.00	\$24,600.00
72" Reinforced Concrete Pipe	564	LF	\$180.00	\$101,520.00
30" Flared End Section w/ Integral Check Valve	1	EA	\$10,000.00	\$10,000.00
36" Flared End Section w/ Integral Check Valve	1	EA	\$15,000.00	\$15,000.00
72" Flared End Section w/ Integral Check Valve	1	EA	\$60,000.00	\$60,000.00
Chain-Link Fence (Retaining Wall (Culvert)	725	LF	\$25.00	\$18,125.00
Standard Traffic Control Devices	1	LS	\$30,000.00	\$30,000.00
Signage & Striping	1	LS	\$100,000.00	\$100,000.00
Bond & Mobilization	1	LS	\$500,000.00	\$500,000.00
Construction Staking & Surveying	1	LS	\$50,000.00	\$50,000.00
Modular Block Retaining Wall	14,000	SF	\$40.00	\$560,000.00
Seeding	18	ACRE	\$2,800.00	\$50,400.00
Streetlights (All Inclusive)	53	EA	\$4,000.00	\$212,000.00
<b>SUBTOTAL</b>				<b>\$8,734,432</b>

<b>Specific Pedestrian Items</b>
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Item	Quantity	Unit	Unit Price	Amount
Concrete Sidewalk (4" Thick)	3,834	SY	\$46.00	\$176,370.89
Concrete Sidewalk (6" Thick)	2,509	SY	\$65.00	\$163,054.66
Gravel Trail (6" Thick)	3,931	SY	\$15.00	\$58,963.67
ADA Ramp	65	EA	\$2,000.00	\$130,000.00
<b>SUBTOTAL</b>				<b>\$528,389.22</b>

<b>Miscellaneous Other Items</b>
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Item	Quantity	Unit	Unit Price	Amount
Erosion Control & SWPPP	1	LS	\$50,000.00	\$50,000.00
<b>SUBTOTAL</b>				<b>\$50,000.00</b>

Construction Cost Subtotal	<b>\$9,312,821.22</b>
Contingency (20%)	<b>\$1,862,564.24</b>
Inflation (3% for 2 Years)	<b>\$567,150.81</b>
Construction Testing	<b>\$220,000.00</b>
<b>Construction Cost Total</b>	<b>\$11,962,536.28</b>
Preliminary Engineering	<b>\$1,100,000.00</b>
<b>Right-of-Way</b>	<b>\$1,029,848.00</b>
<b>Utility Relocations</b>	<b>\$1,000,000.00</b>
Material Testing Services for South River Road (SCCMO Bid #19-035)	<b>\$11,055.00</b>
South River Road / Arena Parkway Signal and lighting Modification & Fiber Relocation (SCCMO Bid #18-121)	<b>\$157,155.75</b>
South River Road Lane (SCCMO Bid #18-137)	<b>\$1,443,276.50</b>
S. Main Street Fill Site (City of St. Charles Contract #18-058)	<b>\$118,165.18</b>
Autonomous Trolley Implementation	<b>\$5,950,000.00</b>
NEPA Permitting Material Preparation/Comprehensive Masterplan by USACE/CITY Cost Share	<b>\$2,000,000.00</b>
<b>Project Total *</b>	<b>\$24,772,036.71</b>

Complete - Cost sheet for reference

Underway - Estimate Attached for reference

Underway - Estimate Attached for reference

Underway - Estimate Attached for reference

Complete - Pay application for reference

Estimate Attached for reference

Underway - Estimate Attached for reference

### Estimate of Project Costs

Project Sponsor: City of St. Charles  
 Project Title: Trolley Extension Phase 1  
 Date: 7/5/2019

#### Autonomous Trolley Design & Implementation

Item	Quantity	Unit	Unit Price	Amount
Trolley Paved Trail Asphalt	12,000	SQYD	\$58.00	\$696,000.00
Retaining Walls	1,600	SQFT	\$55.00	\$88,000.00
Excavation and Grading	8,900	CY	\$20.00	\$178,000.00
Striping/Pavement Markings	1	LS	\$20,000.00	\$20,000.00
Signing	1	LS	\$10,000.00	\$10,000.00
Storm Sewer (18"+Inlets Every 200')	8,900	LF	\$80.00	\$712,000.00
Utilities	1	LUMP SUM	\$50,000.00	\$50,000.00
Removal of Improvements	1	LUMP SUM	\$100,000.00	\$100,000.00
Mobilization	1	LUMP SUM	\$250,000.00	\$250,000.00
Traffic Control	1	LUMP SUM	\$20,000.00	\$20,000.00
Vehicle	2	LUMP SUM	\$250,000.00	\$500,000.00
Fencing	10,200	LF	\$80.00	\$816,000.00
Bridge / Culvert Modifications (Blanchette/Ameristar Lot Access)	2	EA	\$500,000.00	\$1,000,000.00
ADA Crossings	6	EA	\$3,000.00	\$18,000.00
Signalization or Traffic Control @ James MacKay & Riverside	2	EA	\$50,000.00	\$100,000.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>SUBTOTAL</b>				<b>\$4,558,000.00</b>

<b>Construction Cost Total</b>	<b>\$4,558,000.00</b>
<b>Contingency</b>	<b>\$880,000.00</b>
<b>Inflation</b>	
<b>Preliminary Engineering</b>	<b>\$512,000.00</b>
<b>Right-of-Way</b>	
<b>Construction Engineering/Inspection</b>	
<b>Project Total *</b>	<b>\$5,950,000.00</b>

- DEVELOPED THROUGH COORDINATION AND PRELIMINARY DESIGN WITH NAVYA (NAVYA.TECH).
- VERIFIED THAT FOR SEPARATED TRACK, MADE IN AMERICA REQUIREMENT CAN BE MET.

	<b>APPENDIX B</b>	
	<b>COST ESTIMATE</b>	
	<b>FOR</b>	
	<b>DEVELOPMENT OF A COMPREHENSIVE PLAN FOR BANGERT ISLAND</b>	
	<b>FLOOD RISK &amp; RIVERFRONT TRANSFORMATION PROJECT</b>	
	<b>TASKS</b>	<b>COST</b>
1	TOPOGRAPHIC AND BOUNDARY SURVEY	\$50,000
2	GEOTECHNICAL INVESTIGATION TO SUPPORT CONCEPT PLANS	\$250,000
3	HYDRAULIC ANALYSIS FOR FLOOD RISK MGT & CONCEPT PLANS	\$350,000
4	ENVIRONMENTAL RESTORATION & NEPA STUDIES	\$350,000
5	OPERATIONS AND MAINTENANCE PLANNING	\$50,000
6	CONCEPTUAL PLANS	\$300,000
7	PUBLIC OUTREACH AND COORDINATION	\$50,000
8	REPORT DELIVERABLES AND DOCUMENTATION	\$300,000
9	PLAN FORMULATION & EVALUATION FOR CONCEPT PLANS	\$150,000
10	PROJECT MANAGEMENT, ADMINISTRATION & QUALITY ASSURANCE	\$150,000
	<b>TOTAL ESTIMATED PROJECT COSTS</b>	<b>\$2,000,000</b>
	TOTAL ESTIMATED FEDERAL COSTS (50%)	\$1,000,000
	TOTAL ESTIMATED NON-FEDERAL COSTS (50%)	\$1,000,000

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## *Responses for 18-121*

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*Title*                      *South River Road/Arena Parkway Signal and lighting Modification  
and Fiber Relocation*

*Date of Opening*    *Tuesday, October 30, 2018*

<u><i>Vendor</i></u>	<u><i>Amount</i></u>	<u><i>Notes</i></u>
Gerstner Electric Inc	\$157,155.75	
Reinhold Electric Inc	\$159,017.25	
Meyer Electric Co	\$164,283.00	
T.G.B. Inc	\$238,637.50	

*This is a list of the responses received, and is provided for informational purposes only. This is not  
a Notice of Award.*

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## *Responses for 19-035*

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*Title                      Material Testing Services for South River Road*

*Date of Opening    Tuesday, March 19, 2019*

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<u><i>Vendor</i></u>	<u><i>Amount</i></u>	<u><i>Notes</i></u>
Cochran Engineering	\$11,055.00	
SCI Engineering Inc	\$24,895.00	
TSI Geotechnical Inc	\$32,050.00	

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## City of Saint Charles

Public Works Department - Engineering Division  
200 North Second Street, Room 202  
Saint Charles, Missouri 63301-2891  
Phone: (636) 949-3237  
Fax: (636)940-4601

### South Main Street Fill Site CITY BID #4294

Contractor Name: Pace Construction  
Vendor #: 808  
Invoice #: 3 Final  
Date of Invoice: 8/29/18  
Date Approved: 9/5/18

ORDINANCE # 18-058  
CONTRACT # 18-058  
CONTRACT DATE: 3/9/2018

CONTRACT AMENDMENT No 1: \$8,816.18

ORIGINAL CONTRACT = \$109,349.00  
CONTRACT AMENDMENTS = \$8,816.18  
TOTAL CONTRACT AMOUNT = \$118,165.18

CONTRACT AMOUNT COMPLETED THIS PERIOD = \$0.00  
TOTAL CONTRACT AMOUNT COMPLETED PREVIOUS = \$118,165.18  
TOTAL CONTRACT AMOUNT COMPLETED TO DATE = \$118,165.18

P.O. # 2018-00000510

RETAINED THIS PERIOD = (\$5,908.26)  
TOTAL RETAINED PREVIOUS PERIOD = \$5,908.26  
TOTAL RETAINED TO DATE = (\$0.00)

CONTRACTOR PAY THIS PERIOD = \$5,908.26  
TOTAL CONTRACTOR PAY PREVIOUS = \$112,256.92  
TOTAL CONTRACTOR PAY TO DATE = \$118,165.18

PERCENT CONTRACT COMPLETE TO DATE = 100.00%

Project Number	Account Number	Budget Amount	Previous Price	Pay This Period	Budget Remaining
16STR36	410-500-501-873-001	<u>\$39,184.50</u>	\$39,184.50	\$0.00	\$0.00
16STR36	410-500-501-873-101	<u>\$77,260.18</u>	\$73,072.42	\$4,187.76	\$0.00
16STR36	420-500-501-873-101	<u>\$1,720.50</u>	\$0.00	\$1,720.50	\$0.00

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	PREVIOUS QUANTITY	PREVIOUS PRICE	QUANTITY THIS PERIOD	PRICE THIS PERIOD	QUANTITY TO DATE	PRICE TO DATE	BID PRICE	PERCENT COMPLETE
1	MOBILIZATION	LS	1	\$ 11,560.00	\$ 1.00	\$11,560.00	0.00	\$0.00	1.00	\$11,560.00	\$11,560.00	100.00%
2	REMOVAL OF 24" RCP	LS	1	\$ 500.00	\$ 1.00	\$500.00	0.00	\$0.00	1.00	\$500.00	\$500.00	100.00%
3	CLEARING AND GRUBBING	LS	1	\$ 15,500.00	\$ 1.00	\$15,500.00	0.00	\$0.00	1.00	\$15,500.00	\$15,500.00	100.00%
4	EARTHWORK GRADING ON-SITE	LS	1	\$ 55,000.00	\$ 1.00	\$55,000.00	0.00	\$0.00	1.00	\$55,000.00	\$55,000.00	100.00%
5	WASHDOWN AREA	EA	1	\$ 11,500.00	\$ 1.00	\$11,500.00	0.00	\$0.00	1.00	\$11,500.00	\$11,500.00	100.00%
6	WASHDOWN AREA SIGN	EA	1	\$ 750.00	\$ 1.00	\$750.00	0.00	\$0.00	1.00	\$750.00	\$750.00	100.00%
7	PUBLIC NOTIFICATION SIGN	EA	0	\$ 750.00	\$ -	\$0.00	0.00	\$0.00	0.00	\$0.00	\$0.00	100.00%
8	WATER TANK - 1,000 GALLONS	EA	1	\$ 2,200.00	\$ 1.00	\$2,200.00	0.00	\$0.00	1.00	\$2,200.00	\$2,200.00	100.00%
9	CHECK DAM	EA	5	\$ 175.00	\$ 5.00	\$875.00	0.00	\$0.00	5.00	\$875.00	\$875.00	100.00%
10	6" DUMP STOME	SY	76	\$ 37.00	\$ 76.00	\$2,812.00	0.00	\$0.00	76.00	\$2,812.00	\$2,812.00	100.00%
11	SILT FENCE	LF	840	\$ 3.15	\$ 840.00	\$2,646.00	0.00	\$0.00	840.00	\$2,646.00	\$2,646.00	100.00%

# Bangert Island Phase 1 Acquisition Cost

<u>Parcel #</u>	<u>Address</u>		
Purchase of Buzzetta 3 acres		\$	500,000
Trade with R. Whys		\$	225,000
Purchase of 1606 Old S. River Rd, Wilson .9 acres		\$	291,097
B. Bell 6 acres		\$	100
Relocation Costs		\$	3,801
OR Colan Contract		\$	6,850
Appraisals for Bnagert Island		\$	3,000
		\$	1,029,848