

ADDENDUM NO. 5

I. PROJECT INFORMATION

PROJECT: Rock Island Rail Corridor Shared Use Path-North Segment
OWNER: Jackson County, MO
FEDERAL PROJECT NUMBER: STP-3453(402)
COUNTY PROJECT NUMBER: 3221 – BID NO. 09-2018
DESIGN CONSULTANT: TranSystems
DATE OF ADDENDUM: January 31, 2019

2. NOTICE TO BIDDERS

This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Bidding and Contract Documents (Bid Documents), Drawings, and any previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

3. REVISIONS TO BIDDING DOCUMENTS, CONTRACT DOCUMENTS AND SPECIFICATIONS

A. REVISIONS TO NOTICE TO CONTRACTORS

- a. Item 3 Period of Performance is revised as follows:
 - i. Completion of the Base Bid = 343 Calendar Days
 - ii. Completion of the Base Bid with Add Alternate A Bid = 450 Calendar Days

B. REVISIONS TO BID FORM

- I. There have been changes made to the following quantities. Contractor to use the revised Bid Form noted as Addendum No. 5.
 - a. Base Bid Item No. 59 Precast Deck Panel (Blue Parkway/350 HWY) is deleted. Sheets 202-204 of the Plans indicate concrete placement, and the quantity for this deck is already included in the pavement and base aggregate quantities. Disregard general notes related to precast panels on Sheet 202.

C. REVISIONS TO JOB SPECIAL PROVISIONS

- I. Amend Technical Specification 28 Seeding Sodding, and Overseeding, Section 3 by deleting the first two sentences. ~~“All areas that are disturbed require seeding and shall be protected and covered with an Erosion Control Blanket conforming to APWA-KCMO 2152.4.1. Limits of seeding shall include all areas within 8 feet from the edge of the trail or in deep fill and cut areas required to construct the trail within the limits of construction.”~~ Replacing with: “All areas designated in the plans for Erosion Control Blanket cover shall conform to APWA-KCMO 2152.4.1.”

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D. REVISIONS TO PLANS

- a. Amend plan sheet 12 by deleting line item 59, as described above.

E. RESPONSES TO SUBMITTED QUESTIONS:

- a. Does the fence specifications require meeting the IBC? *No. The ASTM f2408 -commercial loading requirements govern per item 7d of TS-26.*

THE ORIGINAL BID DOCUMENTS, INCLUDING ANY PREVIOUS ADDENDA, REMAIN IN EFFECT EXCEPT AS REVISED BY THE CHANGES NOTED IN THIS ADDENDUM NO. 5.

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Item No:	DESCRIPTION	Quantity	Unit	Unit Price	Cost
1	MOBILIZATION	1	LS		
2	UTILITY POTHOLES	12	EACH		
3	ORANGE CONSTRUCTION FENCING (48 IN.)	327	LF		
4	CLEARING AND GRUBBING	29	ACRE		
5	UNCLASSIFIED EXCAVATION	11,611	CUYD		
6	ROCK EXCAVATION (CLASS C EXCAVATION)	614	CUYD		
7	EMBANKMENT IN PLACE (CONTRACTOR FURNISHED)	13,510	CUYD		
8	COMPACTING EMBANKMENT	12,169	CUYD		
9	REMOVE AND REPLACE UNSUITABLE MATERIAL	2,686	CUYD		
10	SHOT ROCK	1,620	CUYD		
11	LIGHTWEIGHT FILL	956	CUYD		
12	REMOVAL OF RAIL AND TIES	25,561	LF		
13	REMOVAL OF BRIDGE RAIL AND TIES	370	LF		
14	REMOVAL OF IMPROVEMENTS (NON-RAIL)	1	LS		
15	SCRAP TIRE DISPOSAL OR RECYCLING	80	CUYD		
16	TYPE 5 AGGREGATE FOR BASE (4 IN.) (PUGGED)	20,273	SQYD		
17	ASPHALT BASE (TYPE 1-01) (8 IN.) (64-22)	2,008	SQYD		
18	ASPHALT SURFACE (TYPE 3-01) (2 IN.) (64-22)	2,008	SQYD		
19	CRUSHED ROCK SURFACING (8 IN.)	21,838	SQYD		
20	CONCRETE PAVEMENT (6 IN. WITH FIBERS)	14,425.7	SQYD		
21	CONCRETE PAVEMENT (8 IN. WITH FIBERS)	316.4	SQYD		
22	CONCRETE CURB AND GUTTER (CG-1)	1,847.0	LF		
23	CONCRETE CURB (C-1)	105.0	LF		
24	CONCRETE SIDEWALK, 4 IN.	220.2	SQYD		
25	CONCRETE SIDEWALK, 4 IN. INTEGRAL RED	15.0	SQYD		

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Item No:	DESCRIPTION	Quantity	Unit	Unit Price	Cost
26	CONCRETE CURB RAMP	248.5	SQYD		
27	TRUNCATED DOMES	343.0	SQFT		
28	LIMESTONE SLAB	72	EACH		
29	AREA INLET (4' X 4')	1	EACH		
30	18 IN. PIPE GROUP C	185	LF		
31	24 IN. PIPE GROUP C	24	LF		
32	30 IN. PIPE GROUP C	140	LF		
33	60 IN. PIPE GROUP C	78	LF		
34	8 IN. FLARED END SECTION GROUP C	1	EACH		
35	18 IN. FLARED END SECTION GROUP C	6	EACH		
36	24 IN. FLARED END SECTION GROUP C	1	EACH		
37	30 IN. FLARED END SECTION GROUP C	1	EACH		
38	60 IN. FLARED END SECTION GROUP C	1	EACH		
39	METAL GRATE(10 FT. X 2.5 FT.)	1	EACH		
40	ROCK LINING	1,364	CUYD		
41	ROCK BLANKET (TYPE I)	223	CUYD		
42	TEMPORARY SEEDING AND MULCHING	28.0	ACRE		
43	MULCH FILTER BERM	35,018	LF		
44	SILT FENCE	4,860	LF		
45	DITCH CHECK	3	EACH		
46	INLET PROTECTION	16	EACH		
47	STABILIZED CONSTRUCTION ENTRANCE	8	EACH		
48	SEDIMENT REMOVAL	409	CUYD		
49	EROSION CONTROL BLANKET	2,591	SQYD		
50	PEDESTRIAN FENCE (STRUCTURES) (48 IN.)	380	LF		
51	PEDESTRIAN FENCE (GROUND MOUNT) (48 IN.)	6,198	LF		
52	CHAIN LINK FENCE (48 IN.)	567	LF		
53	WOVEN WIRE FENCE (48 IN.)	5,328	LF		

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Item No:	DESCRIPTION	Quantity	Unit	Unit Price	Cost
54	WOODEN SPLIT RAIL FENCE (48 IN.)	547	LF		
55	MSE RETAINING WALL (SMALL BLOCK) (RETAINED FACE)	19,873	SQFT		
56	SOLDIER PILE PRECAST PANELS (8 FT)	7,391	SQFT		
57	SOLDIER PILE PRECAST PANELS (16 FT)	466	SQFT		
58	GRAFFITI PROTECTION	19,873	SQFT		
59	PRECAST DECK PANEL (BLUE PARKWAY / 350 HWY)	0	SQYD	N/A	N/A
60	CLASS B-I CONCRETE (SUBSTRUCTURE)	48	CUYD		
61	CLASS B-I CONCRETE (SUPERSTRUCTURE)	9	CUYD		
62	CLASS B CONCRETE (RETAINING WALLS)	74	CUYD		
63	STRUCTURAL STEEL PILE (12 IN.)	168	LF		
64	STRUCTURAL STEEL PILE (HPI2X63)	1,240	LF		
65	STRUCTURAL STEEL PILE (HPI4X102)	1,693	LF		
66	STRUCTURAL STEEL PILE (WI8X119)	61	LF		
67	PRE-BORE FOR PILING	100	LF		
68	DRILLED SHAFTS (4 FT. 0 IN. DIA.)	33	LF		
69	ROCK SOCKETS (1 FT. 6 IN. DIA.)	387	LF		
70	ROCK SOCKETS (2 FT. 6 IN. DIA.)	224	LF		
71	ROCK SOCKETS (3 FT. 6 IN. DIA.)	10	LF		
72	CONCRETE PILE (24 IN)	516	LF		
73	CONCRETE PILE (36 IN)	781	LF		
74	FOUNDATION INSPECTION HOLES	30	LF		
75	VIDEO CAMERA INSPECTION HOLES	2	LF		
76	SONIC LOGGING TESTING	6	EACH		
77	SLAB ON STEEL TRUSS	400	SQYD		
78	VERTICAL DRAIN AT END BENT	2	EACH		
79	WATERPROOFING MEMBRANE	435	SQYD		

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Item No:	DESCRIPTION	Quantity	Unit	Unit Price	Cost
80	PREFABRICATED BRIDGE (WILDWOOD - SPAN 1)	1	EACH		
81	PREFABRICATED BRIDGE (WILDWOOD - SPAN 2)	1	EACH		
82	CROSSFRAME TIMBER MEMBERS (RAYTOWN ROAD)	9	EACH		
83	FLAGGERS	8	EACH		
84	CHANNELIZER (TRIM LINE)	400	EACH		
85	TEMPORARY CONCRETE SAFETY BARRIER	200	LF		
86	TEMPORARY SIGN ASSEMBLY	70	EACH		
87	CHANGEABLE MESSAGE SIGN	2	EACH		
88	FLASHING ARROW PANEL	2	EACH		
89	EXIST. PAVEMENT MARKINGS REMOVAL	400	LF		
90	4 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING	800	LF		
91	4 IN. YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKING	440	LF		
92	12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING	500	LF		
93	24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING	490	LF		
94	GREEN BIKE LANE PAVEMENT MARKING PAINT	510	SQFT		
95	LEFT TURN ARROW	1	EACH		
96	"SHARROW" PAVEMENT MARKING	2	EACH		
97	PAVEMENT MARKING SYMBOL, TYPE 2 TAPE (ADA)	4	EACH		
98	CONDUIT, 2 IN, IN TRENCH	85	LF		
99	BASE, CONCRETE	3	CUYD		
100	POST, SIGNAL 8 FT	6	EACH		
101	DETECTOR, ACCESSIBLE PUSH BUTTON	8	EACH		
102	CABLE, 16 AWG 2 CONDUCTOR	400	LF		

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Item No:	DESCRIPTION	Quantity	Unit	Unit Price	Cost
103	PULL BOX, PREFORMED, CLASS I	1	EACH		
104	VIDEO DETECTION SYSTEM ADJUSTMENT	1	EACH		
105	PERMANENT SIGN ASSEMBLIES	62	EACH		
106	SAFETY SIGN (72")	29	EACH		
107	INTERPRETIVE SIGN ASSEMBLY	9	EACH		
108	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY	9	EACH		
109	COLLAPSIBLE BOLLARD	15	EACH		
110	TRASH RECEPTACLE	2	EACH		
111	BENCH	4	EACH		
112	BIKE RACK	0	EACH	N/A	N/A
113	PICNIC TABLE	0	EACH	N/A	N/A
114	BUMPING POST RELOCATION	1	EACH		
115	SWAMP WHITE OAK/QUERCUS BICOLOR (2.5" CALIPER)	10	EACH		
116	PERMANENT SEEDING AND MULCHING (HYDROSEEDING)	28.0	ACRE		
				Base Bid Total	

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Item No:	DESCRIPTION	Quantity	Unit	Unit Price	Cost
A1	UTILITY POTHOLES	8	EACH		
A2	ORANGE CONSTRUCTION FENCING (48 IN.)	135	LF		
A3	CLEARING AND GRUBBING	15	ACRE		
A4	UNCLASSIFIED EXCAVATION	15,108	CUYD		
A5	ROCK EXCAVATION (CLASS C EXCAVATION)	796	CUYD		
A6	EMBANKMENT IN PLACE (CONTRACTOR FURNISHED)	16,251	CUYD		
A7	COMPACTING EMBANKMENT	9,938	CUYD		
A8	REMOVE AND REPLACE UNSUITABLE MATERIAL	663	CUYD		
A9	LIGHTWEIGHT FILL	231	CUYD		
A10	REMOVAL OF RAIL AND TIES	8,601	LF		
A11	REMOVAL OF BRIDGE RAIL AND TIES	146	LF		
A12	REMOVAL OF IMPROVEMENTS (NON-RAIL)	1	LS		
A13	SCRAP TIRE DISPOSAL OR RECYCLING	20	CUYD		
A14	TYPE 5 AGGREGATE FOR BASE (4 IN.) (PUGGED)	9,492	SQYD		
A15	CONCRETE PAVEMENT (6 IN. WITH FIBERS)	7,944.5	SQYD		
A16	CONCRETE SIDEWALK, 4 IN.	4.0	SQYD		
A17	CONCRETE CURB RAMP	44.4	SQYD		
A18	TRUNCATED DOMES	88	SQFT		
A19	LIMESTONE SLAB	12	EACH		
A20	18 IN. PIPE GROUP C	44	LF		
A21	18 IN. FLARED END SECTION GROUP C	2	EACH		
A22	ROCK LINING	2	CUYD		
A23	ROCK BLANKET (TYPE I)	273	CUYD		
A24	TEMPORARY SEEDING AND MULCHING	7.0	ACRE		
A25	MULCH FILTER BERM	2,350	LF		
A26	SILT FENCE	375	LF		
A27	DITCH CHECK	9	EACH		

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Item No:	DESCRIPTION	Quantity	Unit	Unit Price	Cost
A28	STABILIZED CONSTRUCTION ENTRANCE	3	EACH		
A29	SEDIMENT REMOVAL	38	CUYD		
A30	EROSION CONTROL BLANKET	10,714	SQYD		
A31	PEDESTRIAN FENCE (GROUND MOUNT) (48 IN.)	917	LF		
A32	2- RAIL WHITE VINYL FENCE (48 IN.)	60	LF		
A33	MSE RETAINING WALL (SMALL BLOCK) (RETAINED FACE)	4,693	SQFT		
A34	SOLDIER PILE PRECAST PANELS (8 FT)	1,249	SQFT		
A35	GRAFFITI PROTECTION	4,693	SQFT		
A36	CLASS B-I CONCRETE (SUBSTRUCTURE)	156	CUYD		
A37	CLASS B CONCRETE (RETAINING WALLS)	10	CUYD		
A38	STRUCTURAL STEEL PILE (12 IN.)	340	LF		
A39	STRUCTURAL STEEL PILE (HPI4X102)	499	LF		
A40	PRE-BORE FOR PILING	186	LF		
A41	PIPE PILE SPACER	8	EACH		
A42	CONCRETE PILE (36 IN)	320	LF		
A43	SLAB ON STEEL TRUSS	578	SQYD		
A44	VERTICAL DRAIN AT END BENT	8	EACH		
A45	PREFABRICATED BRIDGE (STADIUM TRAILHEAD)	1	EACH		
A46	PREFABRICATED BRIDGE (BLUE RIDGE CUTOFF)	1	EACH		
A47	PREFABRICATED BRIDGE (ROUND GROVE CREEK - TRIB. #1)	1	EACH		
A48	PREFABRICATED BRIDGE (47TH STREET)	1	EACH		
A49	TYPE III MOVABLE BARRICADE W/ FLASHERS	10	EACH		
A50	FLAGGERS	2	EACH		
A51	CHANNELIZER (TRIM LINE)	100	EACH		
A52	TEMPORARY CONCRETE SAFETY BARRIER	40	LF		
A53	TEMPORARY SIGN ASSEMBLY	90	EACH		

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Item No:	DESCRIPTION	Quantity	Unit	Unit Price	Cost
A54	CHANGEABLE MESSAGE SIGN	2	EACH		
A55	FLASHING ARROW PANEL	2	EACH		
A56	4 IN. YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKING	120	LF		
A57	24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING	140	LF		
A58	PERMANENT SIGN ASSEMBLIES	22	EACH		
A59	SAFETY SIGN (72")	6	EACH		
A60	INTERPRETIVE SIGN ASSEMBLY	1	EACH		
A61	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY	5	EACH		
A62	COLLAPSIBLE BOLLARD	3	EACH		
A63	TRASH RECEPTACLE	1	EACH		
A64	BENCH	2	EACH		
A65	BIKE RACK	0	EACH	N/A	N/A
A66	PERMANENT SEEDING AND MULCHING (HYDROSEEDING)	7.0	ACRE		
				Alternate A Total	

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Unit Price	Cost
BASE BID TOTAL	
ALTERNATE A BID TOTAL	
BASE BID + ALTERNATE A BID TOTAL	

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END OF ADDENDUM

Millimeters

Scale For Microfining

Inches

SUMMARY OF QUANTITIES				
Item No.	Specifications	Description	Quantity	Unit
1	TS-13-01	MOBILIZATION	1	LS
2	TS-12-01	UTILITY POTHOLES	12	EACH
3	TS-02-01	ORANGE CONSTRUCTION FENCING (48 IN.)	327	LF
4	TS-15-01	CLEARING AND GRUBBING	29	ACRE
5	TS-17-01	UNCLASSIFIED EXCAVATION	11,611	CUYD
6	TS-17-02	ROCK EXCAVATION (CLASS C EXCAVATION)	614	CUYD
7	TS-17-03	EMBANKMENT IN PLACE (CONTRACTOR FURNISHED)	13510 13957	CUYD
8	TS-17-04	COMPACTING EMBANKMENT	12,169	CUYD
9	TS-17-05	REMOVE AND REPLACE UNSUITABLE MATERIAL	2,686	CUYD
10	TS-17-06	SHOT ROCK	1,620	CUYD
11	TS-17-07	LIGHTWEIGHT FILL	956 509	CUYD
12	TS-15-02	REMOVAL OF RAIL AND TIES	25,561	LF
13	TS-15-03	REMOVAL OF BRIDGE RAIL AND TIES	370	LF
14	TS-15-04	REMOVAL OF IMPROVEMENTS (NON-RAIL)	1	LS
15	TS-15-05	SCRAP TIRE DISPOSAL OR RECYCLING	80	CUYD
16	TS-20-01	TYPE 5 AGGREGATE FOR BASE (4 IN.) (PUGGED)	20,273	SQYD
17	TS-47-01	ASPHALT BASE (TYPE 1-01) (8 IN.) (64-22)	2,008	SQYD
18	TS-48-01	ASPHALT SURFACE (TYPE 3-01) (2 IN.) (64-22)	2,008	SQYD
19	TS-21-01	CRUSHED ROCK SURFACING (8 IN.)	21,838	SQYD
20	TS-22-01	CONCRETE PAVEMENT (6 IN. WITH FIBERS)	14,425.7	SQYD
21	TS-22-02	CONCRETE PAVEMENT (8 IN. WITH FIBERS)	316.4	SQYD
22	TS-23-01	CONCRETE CURB AND GUTTER (CG-1)	1,847.0	LF
23	TS-23-02	CONCRETE CURB (C-1)	105.0	LF
24	TS-23-03	CONCRETE SIDEWALK, 4 IN.	220.2	SQYD
25	TS-23-04	CONCRETE SIDEWALK, 4 IN. INTEGRAL RED	15.0	SQYD
26	TS-23-05	CONCRETE CURB RAMP	248.5	SQYD
27	TS-23-06	TRUNCATED DOMES	343.0	SQFT
28	TS-49-01	LIMESTONE SLAB	72 38	EACH
29	TS-29-01	AREA INLET (4' X 4')	1	EACH
30	TS-29-02	18 IN. PIPE GROUP C	185	LF
31	TS-29-03	24 IN. PIPE GROUP C	24	LF
32	TS-29-04	30 IN. PIPE GROUP C	140	LF
33	TS-29-05	60 IN. PIPE GROUP C	78	LF
34	TS-29-06	8 IN. FLARED END SECTION GROUP C	1	EACH
35	TS-29-07	18 IN. FLARED END SECTION GROUP C	6	EACH
36	TS-29-08	24 IN. FLARED END SECTION GROUP C	1	EACH
37	TS-29-09	30 IN. FLARED END SECTION GROUP C	1	EACH
38	TS-29-10	60 IN. FLARED END SECTION GROUP C	1	EACH
39	TS-29-11	METAL GRATE(10 FT. X 2.5 FT.)	1	EACH
40	TS-29-12	ROCK LINING	1,364	CUYD
41	TS-29-13	ROCK BLANKET (TYPE 1)	223	CUYD ACRE
42	TS-18-01	TEMPORARY SEEDING AND MULCHING	28.0	ACRE
43	TS-18-02	MULCH FILTER BERM	35,018 34,953	LF
44	TS-18-03	SILT FENCE	4,860	LF
45	TS-18-04	DITCH CHECK	3	EACH
46	TS-18-05	INLET PROTECTION	16	EACH
47	TS-18-06	STABILIZED CONSTRUCTION ENTRANCE	8	EACH
48	TS-18-07	SEDIMENT REMOVAL	409 408	CUYD
49	TS-18-08	EROSION CONTROL BLANKET	2,591 1,621	SQYD
50	TS-26-01	PEDESTRIAN FENCE (STRUCTURES) (48 IN.)	380	LF
51	TS-26-02	PEDESTRIAN FENCE (GROUND MOUNT) (48 IN.)	6,198	LF
52	TS-26-03	CHAIN LINK FENCE (48 IN.)	567	LF
53	TS-26-04	WOVEN WIRE FENCE (48 IN.)	5,328	LF
54	TS-26-05	WOODEN SPLIT RAIL FENCE (48 IN.)	547	LF
55	TS-40-02	MSE RETAINING WALL (SMALL BLOCK) (RETAINED FACE)	19,873	SQFT
56	TS-52-01	SOLDIER PILE PRECAST PANELS (8 FT)	7,391	SQFT
57	TS-52-02	SOLDIER PILE PRECAST PANELS (16 FT)	466	SQFT
58	TS-30-01	GRAFFITI PROTECTION	19,873	SQFT
59	TS-36-01	PRECAST DECK PANEL (BLUE PARKWAY / 350 HWY)	77	SQYD
60	TS-36-02	CLASS B-1 CONCRETE (SUBSTRUCTURE)	48	CUYD
61	TS-36-03	CLASS B-1 CONCRETE (SUPERSTRUCTURE)	9	CUYD
62	TS-36-04	CLASS B CONCRETE (RETAINING WALLS)	74	CUYD
63	TS-38-01	STRUCTURAL STEEL PILE (12 IN.)	168	LF
64	TS-38-02	STRUCTURAL STEEL PILE (HP12X63)	1,240	LF
65	TS-38-03	STRUCTURAL STEEL PILE (HP14X102)	1,693	LF
66	TS-38-04	STRUCTURAL STEEL PILE (HP18X119) (W18X119)	61	LF
67	TS-38-05	PRE-BORE FOR PILING	100	LF
68	TS-37-01	DRILLED SHAFTS (4 FT. 0 IN. DIA.)	33	LF
69	TS-37-02	ROCK SOCKETS (1 FT. 6 IN. DIA.)	387	LF

3

3

1

3

3

3

5

3





SUMMARY OF QUANTITIES				
Item No.	Specifications	Description	Quantity	Unit
71	TS-37-04	ROCK SOCKETS (3 FT. 6 IN. DIA.)	10	LF
72	TS-37-05	CONCRETE PILE (24 IN)	516	LF
73	TS-37-06	CONCRETE PILE (36 IN)	781	LF
74	TS-37-07	FOUNDATION INSPECTION HOLES	30	LF
75	TS-37-08	VIDEO CAMERA INSPECTION HOLES	2	LF
76	TS-37-09	SONIC LOGGING TESTING	6	EACH
77	TS-36-04	SLAB ON STEEL TRUSS	400	SQYD
78	TS-36-05	VERTICAL DRAIN AT END BENT	2	EACH
79	TS-41-01	WATERPROOFING MEMBRANE	435	SQYD
80	TS-35-05	PREFABRICATED BRIDGE (WILDWOOD - SPAN 1)	1	EACH
81	TS-35-06	PREFABRICATED BRIDGE (WILDWOOD - SPAN 2)	1	EACH
82	TS-32-01	CROSSFRAME TIMBER MEMBERS (RAYTOWN ROAD)	9	EACH
83	TS-02-03	FLAGGERS	8	EACH
84	TS-02-04	CHANNELIZER (TRIM LINE)	400	EACH
85	TS-02-05	TEMPORARY CONCRETE SAFETY BARRIER	200	LF
86	TS-02-06	TEMPORARY SIGN ASSEMBLY	70	EACH
87	TS-02-07	CHANGEABLE MESSAGE SIGN	2	EACH
88	TS-02-08	FLASHING ARROW PANEL	2	EACH
89	TS-25-01	EXIST. PAVEMENT MARKINGS REMOVAL	400	LF
90	TS-25-02	4 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING	800	LF
91	TS-25-03	4 IN. YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKING	440	LF
92	TS-25-04	12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING	500	LF
93	TS-25-05	24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING	490 490	LF
94	TS-25-06	GREEN BIKE LANE PAVEMENT MARKING PAINT	510	SQFT
95	TS-25-07	LEFT TURN ARROW	1	EACH
96	TS-25-08	"SHARROW" PAVEMENT MARKING	2	EACH
97	TS-25-09	PAVEMENT MARKING SYMBOL, TYPE 2 TAPE (ADA)	4	EACH
98	TS-02-09	CONDUIT, 2 IN, IN TRENCH	85	LF
99	TS-02-10	BASE, CONCRETE	3	CUYD
100	TS-02-11	POST, SIGNAL 8 FT	6	EACH
101	TS-02-12	DETECTOR, ACCESSIBLE PUSH BUTTON	8	EACH
102	TS-02-13	CABLE, 16 AWG 2 CONDUCTOR	400	LF
103	TS-02-14	PULL BOX, PREFORMED, CLASS 1	1	EACH
104	TS-02-15	VIDEO DETECTION SYSTEM ADJUSTMENT	1	EACH
105	TS-27-01	PERMANENT SIGN ASSEMBLIES	62	EACH
106	TS-27-02	SAFETY SIGN (72")	29 62	EACH
107	TS-27-03	INTERPRETIVE SIGN ASSEMBLY	9	EACH
108	TS-27-04	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY	9	EACH
109	TS-33-01	COLLAPSIBLE BOLLARD	15 11	EACH
110	TS-42-01	TRASH RECEPTACLE	2	EACH
111	TS-43-01	BENCH	4 2	EACH
112	TS-44-01	BIKE RACK	0 6	EACH
113	TS-46-01	PICNIC TABLE	0 1	EACH
114	TS-45-01	BUMPING POST RELOCATION	1	EACH
115	TS-53-01	SWAMP WHITE OAK/QUERCUS BICOLOR (2.5" CALIPER)	10	EACH
116	TS-09-01	PERMANENT SEEDING AND MULCHING (HYDROSEEDING)	28.0	ACRE

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no.	date	by	ckd	description
<div></div>				
<div> 2400 PERSHING ROAD SUITE 400 KANSAS CITY, MISSOURI 64108 816-329-8600 MO STATE CERTIFICATE OF AUTHORITY #273 ENGINEERING</div>				
<div> 9400 WARD PARKWAY KANSAS CITY, MISSOURI 64114 816-333-9400 MO STATE CERTIFICATE OF AUTHORITY # 000165 ENGINEERING</div>				
date		detailed		
1/31/2019		AAM		
designed		checked		
JWZ		JWZ		
<div> JACKSON COUNTY, MISSOURI</div>				
ROCK ISLAND RAIL CORRIDOR SHARED USE PATH PROJECT SUMMARY OF QUANTITIES				
project		contract		
STP 3453(402)				
drawing		rev.		
		5 01/31/19		
sheet 12		of 367		sheets
file 95731-QTY20-008.dgn				