

#### <u>ADDENDUM NUMBER 2</u>

Project Number 89008260

**Project Title** 

**NW Waukomis Drive Complete Streets Upgrade Federal STP-3451(402)** 

ISSUE DATE: <u>1/19/2023</u>

Bidders are hereby notified that the Bidding and Contract Documents for the above project, for which Bids are to be received on January 24, 2023, are amended as follows:

Information to Bidders The following is provided to Bidders for information only:

- Q1. How does the city monitor the PI/LL of the dirt for each lift? Is it decided upon in advance as to whether or not the dirt will need to be treated or do I install a lift, then is it tested for PI/LL and if then, it is above the limits, that lift gets cement treatment? How does this work?
- A1. Once a material for backfill, embankment, whatever, has been identified the Atterberg's are run to see if it meets the city's specification or not. If it does, nothing needs to be done and a proctor is run to determine max density/optimum moisture. If it does not, then the material is either rejected and a new material is proposed or the material is stabilized with fly ash, cement, or hydrated lime and a proctor is run with the percentage of the additive. No further laboratory testing of the material is required. When/if that source is depleted then a new source is located, sample the process is repeated. The Atterberg's cannot change unless something happens to the material that would cause a chemical/molecular change such as fire, fuel/oil spills, etc...
- Q2. Is polypropylene pipe allowed everywhere that RCP is shown in the plans?
- A2. Response: Project shall be bid using RCP as shown on the plans.
- Q3. Schedule I saw that Phase 3 is to be completed June 1 Aug 15th. So I assume Phases 1A and 1B with the ConSpans need to go earlier (maybe late spring), but didn't see a schedule. Is there one for the other phases?
- A3. Response: Phase 3 construction dates are intended to minimize disruption to school activities. No construction schedule has been developed for other phases. Contractor is to submit a construction schedule for review in accordance with the requirements of the Project Manual and the Plans.
- Q4. Plans On sheet 217, the SE wingwall end elevation is shown as 797.40', which would make it 18.82' tall. This would be taller at the end than it is at the structure. The other three wings have end heights around 10-11'. Can you confirm the elevation for this wall?
- A4. Response: The southeast wingwall end elevation is 797.40'.

Q5. Plans – Sheets 214 & 217 show a 6' tall fence mounted to the headwalls. Are there details for this connection or will it be the same as the Post Connection & Plan of Base Plate shown on 216, 219 & 220?

#### A5. Response: The detail is for both fences.

- Q6. Plans Sheets 216, 219 & 220 show reinforcement for the CIP barrier wall extending into the top of the precast arches (Section C-C). Are these to be field drilled or do you want splicers in the precast?
- A6. Response: The details call for a resin anchor system. Not inserts.
- Q7. Plans/Specs Sheets 214 & 217 say all steel is to be epoxy coated. Spec section 03410 / 2.3 doesn't state epoxy steel is needed. Can you confirm which is correct? Epoxy steel in the arches isn't very common at all.
- A7. Response: See attached revised Plans. Plain reinforcement is acceptable.
- Q8. Specs where can I find the concrete mix listed in section 03410 / 2.1.A? Need to give it to the precasters to make sure that there are no issues with it.
- A8. Response: Contact concrete mix supplier for mix requirements.
- Q9. Specs section 03410 / 2.11.B mentions a formliner applied to the headwalls and wingwalls with the design to be approved during the shop review process. Formliners come in varying thicknesses, which will impact the wall thickness. Also there isn't an elevation view of the structures showing the extent of the formliner. The elevation view of the barriers show the formliner in just the top 18". Is the formliner to cover the full height of the outside of the headwalls and wingwalls?
- A9. Response: See attached revised plans. Contractor should assume formliner with 2" relief. Formliner on headwalls and wingwalls shall be full height up to a 6" wide concrete band per attached revised drawings.
- Q10. Can cement be used for bid item 19: Chemically Treated Subgrade(6")? I noticed bid item 6a soil treatment of embankment listed in its description the use of 15% fly-ash or 5% cement.
- A10. Response: Per Project Manual, 5% cement may be used.
- Q11. Which page of plans can we find the continuation of Match Line STA 1+75.0 of sheet 169?
- A11. Response: The continuation of sta 1+75.00 can be found on the subsequent sheet, sheet 170.
- Q12. There are no typical roadway sections for the 10" paving 123+38-128+95.
- A12. Response: Refer to note on sheets 12 and 13. Layout information can be found on the Roundabout Layout Sheets and section information can be found on the Roadway Details sheets.
- Q13. How is the flume paid for the block walls.
- A13. Response: Refer to note 4 on sheets 145 thru 148 and note 5 on the retaining walls typical section on sheet 149.
- Q14. I have taken the project quantities off and there are several quantities that are no where close to the bid quantity. Is there any way to have the engineer check there qty's for all the concrete curb, pavement, sidewalk, and asphalt paving? Also can we get the excel

file of the bid unit prices form? Also can we get a typical section detail of the round a bout. There currently is no plan sheet that shows a profile view of the round a bout construction.

- A14. Response: Refer to attachments for revised quantities. Excel file of bid unit prices form is included in this addendum and available through ebuilder. Refer to question 12 for roundabout plan information.
- Q15. The FO relocate bid item for the 128 ct. FO wire/conduit that runs along the east side of this job for KCMO and The Park Hill School District stats the contractor has to relocate, "prior to any other construction in the corridor", maintain and take responsibility for the FO cable "during any remaining roadway or utility construction". Our question is, why can't this FO cable/conduit be treated like any other utility and be relocated prior to the job building and not be part of this jobs scope of work/responsibility?
- A15. The fiber bid item is part of the contract to be coordinated with the construction activities in conflict with the fiber to reduce downtime.

#### **Project Manual**

1. Job Special Provisions Section N (Utilities JSP 93-26F) shall be revised to include the following utility relocation statuses.

Google: Relocation work complete.

Charter (Spectrum): Relocation work continuing. Nearing completion of overhead work. Anticipated completion of underground fiber systems early March.

Unite Private Networks: Relocation work will follow completion of Charter overhead work. Anticipated duration approximately 45 days.

- 2. Job Special Provisions Section BB (Bid Items): Revise Concrete Sidewalk (4") to Concrete Sidewalk (6")
- 3. Replace Section 00412 Unit Prices Bid Form (PDF)
- 4. Add Section 00412 Unit Prices Bid Form (Excel)

#### Drawings:

- 1. Replace sheet 2 Summary of Quantities
- 2. Replace sheet 214 East Fork Line Creek Bridge Layout
- 3. Replace sheet 215 East Fork Link Creek Bridge Layout
- 4. Replace sheet 217 Old Maid's Creek Bridge Layout
- 5. Replace sheet 218 Old Maid's Creek Details

NOTE: Bidders must acknowledge receipt of this Addendum by listing the number and date, where provided, on the Bid Form - Document 00410.

## SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	APPROXIMATE QUANTITY	UNIT
	ROADWAY	·	
1	Mobilization	1	LS
2	Construction Staking	1	LS
3	Clearing & Grubbing	16	AC
4	Removal of Improvements	1	LS
5	Unclassified Excavation	22,553	CY
6	Embankment	34,539	CY
6a	Soil Treatment (if LL>40 and/or PI>25) (15% Fly Ash or 5% Cement)	34,539	CY
7	Type 5-01 Asphaltic Concrete Surface (2" Roadway)	15,227	SY
8	Type 1-01 Asphaltic Concrete Base (9" Roadway)	15,227	SY
9	Type 1-01 Asphaltic Concrete Base (5")	4,740	SY
10	Temporary Asphalt Pavement (6" Type 1-01 & 6" MoDOT Type 5)	452	SY
11	Temporary Gravel Driveway (6")	530	SY
12	Concrete Pavement (10")	2,815	SY
13	Concrete Pavement (10", Stamped & Colored)	808	SY
14	Concrete Pavement (8")	1,160	SY
15	Concrete Median (4")	5,553	SF
16	MoDOT Type 5 (6")	24,530	SY
17	MoDOT Type 5 (17")	266	SY
18	KDOT AB-3 (4")	7,730	SY
19	Chemically Treated Subgrade(6")	25,645	SY
20	Concrete Curb & Gutter (All types)	14,788	LF
21	Concrete Commercial Drive (8")	12,922	SF
22	Concrete Sidewalk (6")	20,366	SF
23	Concrete Trail (6")	35,243	SF
24	Concrete Sidewalk Ramp (6")	2,572	SF
25	Large Block Retaining Wall	11,613	VSF
26	Curb Inlet Type 1 (5'x4')	20	EA
27	Curb Inlet Type 1 (5x4) Curb Inlet Type 1 (5x6)	4	EA
28		2	EA
	Curb Inlet Type 2 (5'x4')		
29	Area Inlet (4'x4')	3	EA
30	Area Inlet (5'x5')	1	EA EA
31	Junction Box JB-1 (4'x4')	3	EA EA
32	Junction Box JB-1 (5'x5')	'	EA
33	15" RCP (Class III)	1,291	LF
34	18" RCP (Class III)	122	LF
35	24" RCP (Class III)	62	LF
36 37	30" RCP (Class III)	182	<u>LF</u> LF
	36" RCP (Class III)	607	
38	15" RCP End Section	6	EA
39 40	18" RCP End Section 36" RCP End Section	1 1	EA EA
41		584	LF
41	6" Perforated HDPE 6" Solid PVC	73	LF LF
43	Tied Concrete Block Mat	32,605	SF
44	Type 3 Rock Ditch Liner	51	SY
45	Construction Fencing	746	LF
46	Ornamental Fencing (6')	556	<u>LF</u>
47	Ornamental Fencing (2')	254	LF
48	Black Vinyl Coated Chain Link Fencing (6')	191	<u>LF</u>
49	Chain Link Fencing (6')	1,174	LF
50	Chain Link Fencing (8')	75	LF
51	Private Signage	1	EA
		4 400	

1,463 27

4

3,423

10

EA

EA

EA

SF

EA

EΑ

EΑ

EA

52 Biodegradable Logs53 Curb Inlet Protection

54 Area Inlet Protection

57 Rock Check Dam

55 Junction Box Protection

56 Construction Entrance

59 Project Information Signs

60 Variable Message Signs

58 Utility Structure Top Adjustment

ITEM NO.	ITEM DESCRIPTION	APPROXIMATE QUANTITY	UNIT
	BRIDGES		
61	Precast Concrete Arch Structure (36' wide)	1	EA
62	Precast Concrete Arch Structure (60' X12')	1	EA
63	Concrete (Class B-2 (Substructure))	470	CY
64	Reinforcing Steel	49,640	LBS
65	Pedestrian Barrier Wall	336	LF

	TEMPORARY TRAFFIC CONTROL SIGNAGE & EQUIPMENT				
66	Temporary Sign, M4-8 (24x12)	7	EA		
67	Temporary Sign, M4-9L (30x24)	4	EA		
68	Temporary Sign, M4-9R (30x24)	5	EA		
69	Temporary Sign, M6-3 (21x15)	7	EA		
70	Temporary Sign, CW20-1D (48x48)	4	EA		
71	Temporary Sign, W20-3 (48x48)	5	EA		
72	Temporary Sign, W16-8a (24x15)	18	EA		
73	Temporary Sign, R11-2 (48x30)	10	EA		
74	Temporary Sign, R11-4 (60x30)	30	EA		
75	Temporary Sign, R3-1 (36x36)	2	EA		
76	Temporary Sign, R3-2 (36x36)	1	EA		

	TRAFFIC - SIGNAGE & PAVEMENT MARKINGS				
77	Existing Signage Removal	1	LS		
78	Flat Sheet Signs	563	SF		
79	Sign Post	74	EA		
80	RRFB System (Set of 2 Poles)	2	EA		
81	Preformed Thermoplastic Pavement Marking, 4 In. White	3,000	LF		
82	Preformed Thermoplastic Pavement Marking, 6 In. White	6,500	LF		
83	Preformed Thermoplastic Pavement Marking, 4 In. Yellow	3,050	LF		
84	Preformed Thermoplastic Pavement Marking, 8 In. White	185	LF		
85	Preformed Thermoplastic Pavement Marking, 12 In. White	80	LF		
86	Preformed Thermoplastic Pavement Marking, 12 In. Yellow	140	LF		
87	Preformed Thermoplastic Pavement Marking, 24 In. White	700	LF		
88	Preformed Thermoplastic Pavement Marking, Left Arrow	12	EA		
89	Preformed Thermoplastic Pavement Marking, Right Arrow	1	EA		
90	Preformed Thermoplastic Pavement Marking, 2'x6' Thru Arrow	21	EA		
91	Preformed Thermoplastic Pavement Marking, Right & Thru Shared Arro	2	EA		
92	Preformed Thermoplastic Pavement Marking, Left & Thru Shared Arrow	2	EA		
93	Preformed Thermoplastic Pavement Marking, "ONLY"	4	EA		
94	Preformed Thermoplastic Pavement Marking, Shared Lane Marking	6	EA		
95	Preformed Thermoplastic Pavement Marking, 6'x4' Bicycle	13	EA		
96	Preformed Thermoplastic Pavement Marking, "BIKE LANE"	9	EA		
97	Preformed Thermoplastic Pavement Marking, Yield Line Triangles	20	EA		

	ITS		
98	Conduit (3") Trench	3,883	LF
99	Conduit (3") Bore	3,955	LF
100	Type II Pull Box (Fiber Optic)	14	EA
101	96-CT Fiber Optic Cable	3,883	LF
102	192-CT Fiber Optic Cable (Relocated)	3,955	LF
103	Fiber Splice	3	EA

ITEM NO.	ITEM DESCRIPTION	APPROXIMATE QUANTITY	UNIT	
	STREET LIGHTING			
104	Luminaire Design Parameter 'A'	48	EA	
105	Pole (35') Design Parameter 'A'	48	EA	
106	Luminaire Design Parameter 'B' (KCMO Type B LED)	1	EA	
107	Pole (30') Design Parameter 'B'	1	EA	
108	Type 'B' Arm (6'-0")	1	EA	
109	1 #10 RHW/USE Internal Pole Wire	5,100	LF	
110	2 # 4 RHH/RHW/USE, 1 #4 CU GND., 2" CID	5,900	LF	
111	2 # 6 RHH/RHW/USE, 1 #6 CU GND., 2" CID	1,450	LF	
112	3" HDPE Conduit For KCP&L Feed	200	LF	
113	2" Empty Conduit for Future Lighting at South Roundabout	80	LF	
114	1 #6 AWG Bare Copper Wire	200	LF	
115	4 Circuit Lighting Controller	2	EA	
116	Ground Rod	2	EA	
117	Fuse Kits	96	EA	
118	Non-Fussed Fuse Kits	49	EA	
119	Cable Retainers	49	EA	
120	Screw In Light Pole Base	49	EA	
121	ID Tag	51	EA	
122	Concrete Foundations for Lighting Controller	2	EA	
123	Evergy Electrical Service That Include Evergy Pole Mounted Transform	2	EA	
124	Pull Box	6	EA	
125	Trench and Backfill	7,350	LF	
126	Luminare and Arm Removal	24	EA	
127	Wood Pole Removal and Equipment	22	EA	
128	Metal Pole Removal and Equipment	2	EA	
129	Power Hookups For Evergy Power Sources	2	EA	

	LANDSCAPING		
130	Deciduous Tree (2.5" Caliper)	126	EA
131	Perennials (#1 Containers)	4,124	EA
132	Perennials (4" Pot)	987	EA
133	Plugs	3,134	EA
134	Bulbs	271	EA
135	Fescue Sod	17,403	SY
136	Native Seed & Wildflower Seeding	4	AC
137	Temporary Seed	4	AC
138	RPM Tree (#3)	233	EA
139	RPM Shrub (#3)	102	EA
140	Tree Hydration Bladder (36" Diameter)	126	EA
141	Hyrdaulic Erosion Control	17,424	SY
142	Straw Wattles	1,170	LF
143	Infiltration Trench	245	CY
144	Infiltration Testing	8	EA
145	Pretreatment Chambers	7	EA
146	Stone Veneer Assenblies	1,630	SFF
147	Steel Landscape Edging	627	LF
148	Trench Edging	2,671	LF
149	Cast-in-Place Concrete Wall	112	CY
150	Dry Stack Masonry Walls	810	CF
151	Limestone Boulders (Medium)	30	EA
152	Limestone Boulders (Large)	13	EA
153	River Rock (Buffalo River Rock)	7,540	SF
154	Decorative Aggregate (MO Rainbow Oversized)	3,045	SF



Walter P Moore and Associates, Inc. 1100 Walnut, Suite 1825 Kansas City, Missouri 64106

816.701.2100 walterpmoore.com MO PE Corporation No. 1999141112

IN ASSOCIATION WITH

PROJECT NAME

# WAUKOMIS DRIVE COMPLETE STREETS UPGRADE

KANSAS CITY, MISSOURI CITY PROJECT NO. 89008260 FEDERAL PROJECT NO. STP-3451(402)



SUBMITTALS

1 01/18/2023 ADDENDUM#2

NO. DATE

DESIGNED BY	
	M.J.H.
REVIEWED BY	
	D.L.B.
DRAWN BY	
	D.M.B.
PROJECT NUMBER	
	M08-14007-00
DATE	

SUMMARY OF QUANTITIES

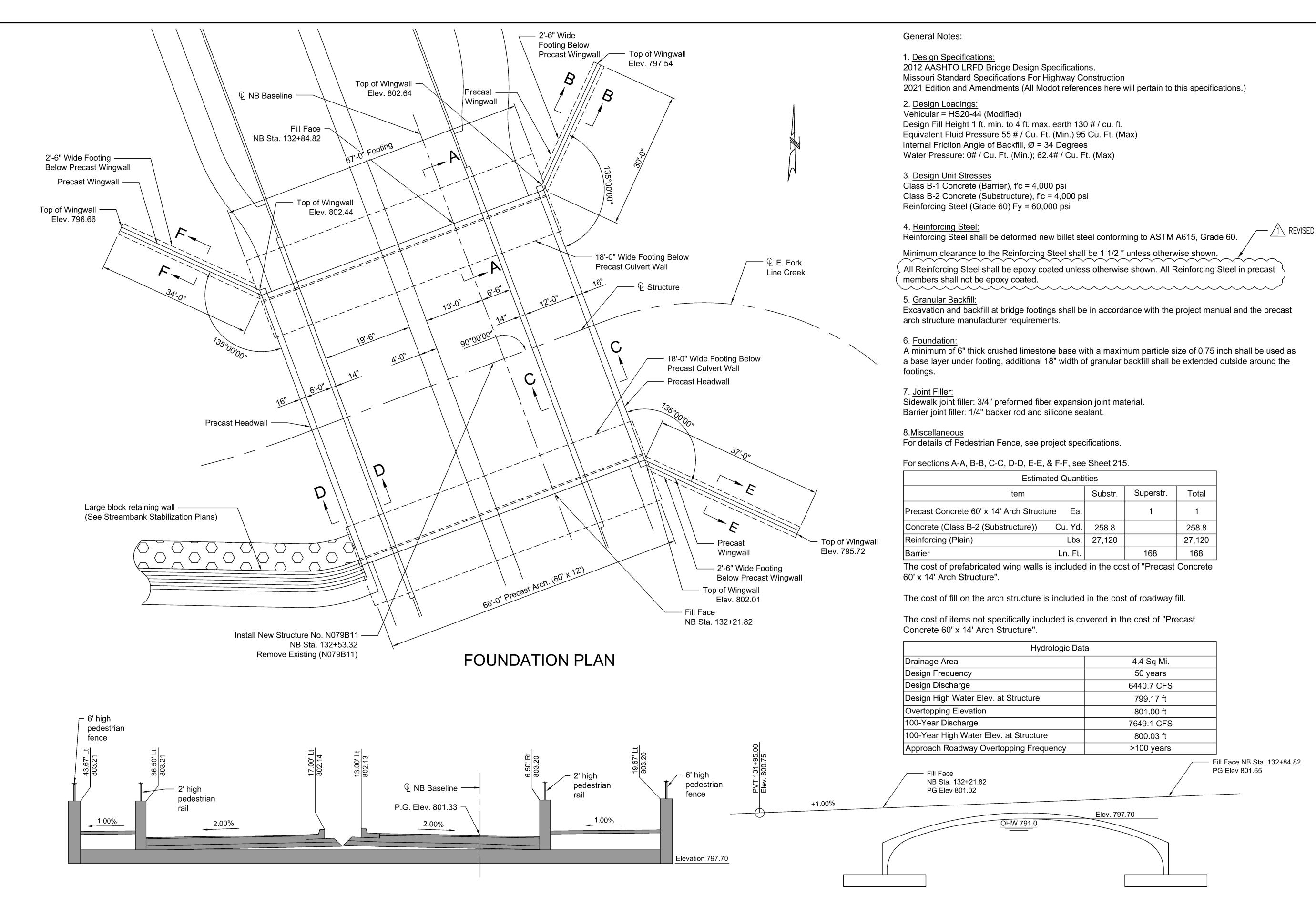
27 JANUARY 2022

SHEET NUMBER

SHEET TITLE

**2** OF 252

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SECTION NB 132+53.32 - LOOKING UPSTATION

**ELEVATION AND NB PROFILE VIEW** 



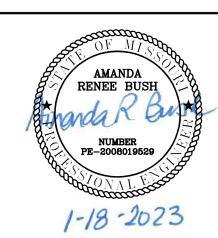
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# WAUKOMIS DRIVE COMPLETE STREETS UPGRADE

KANSAS CITY, MISSOURI CITY PROJECT NO. 89008260 FEDERAL PROJECT NO. STP-3451(402)



NO. DATE SUBMITTALS

1/18/2023 Addendum 2

DESIGNED BY

A.R.B

REVIEWED BY

A.R.B.

DRAWN BY

T.A.J.

EAST FORK LINE CREEK BRIDGE LAYOUT

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SHEET NUMBER

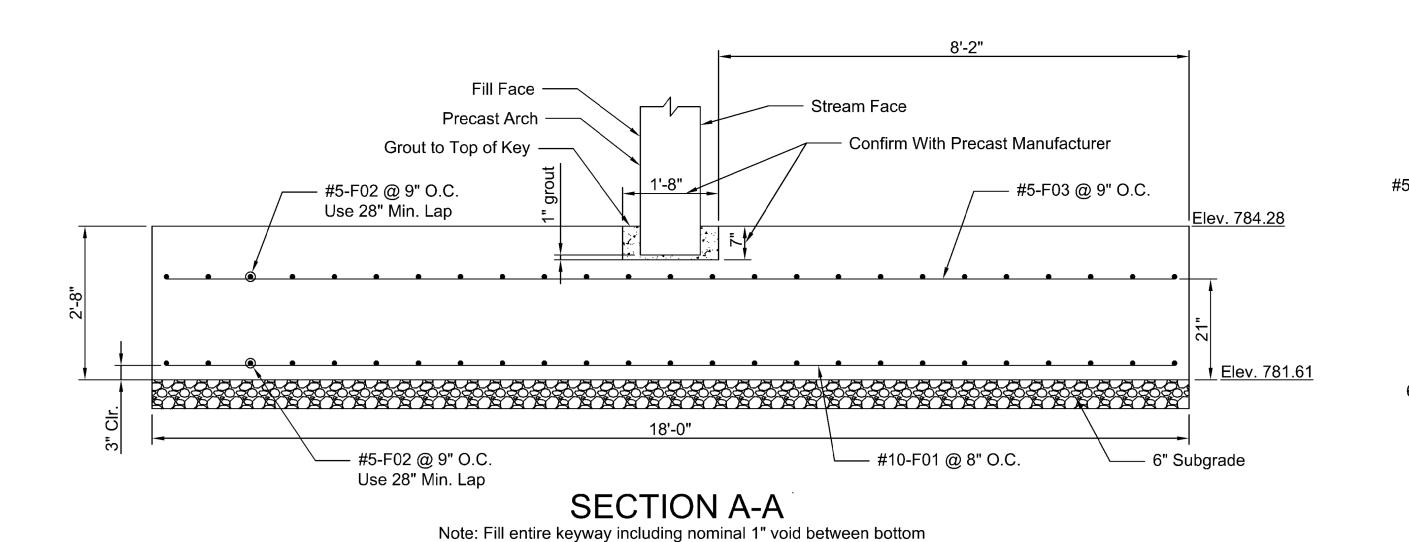
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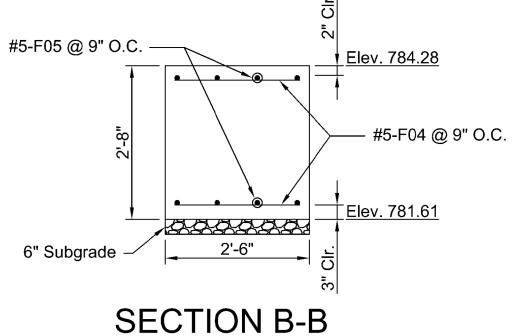
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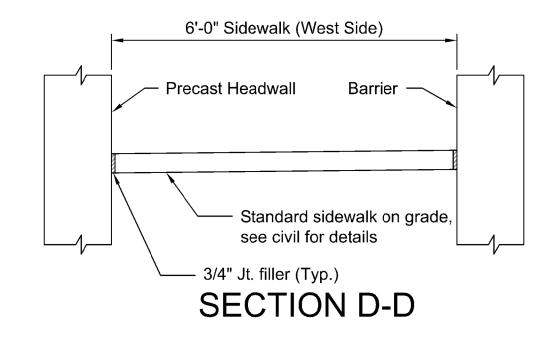
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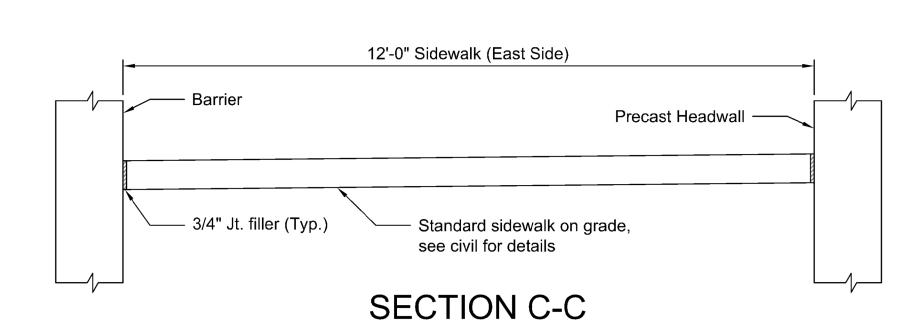
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27 JANUARY 2022

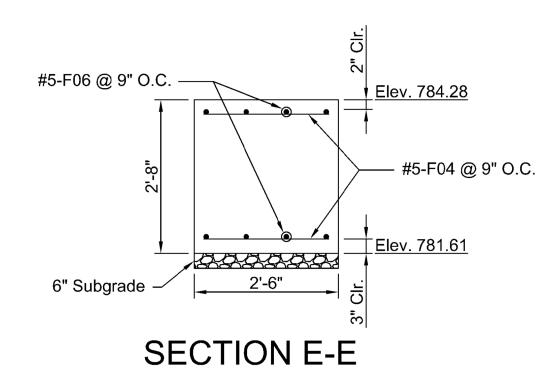


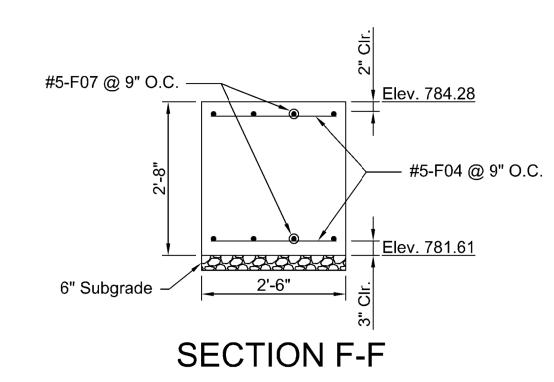


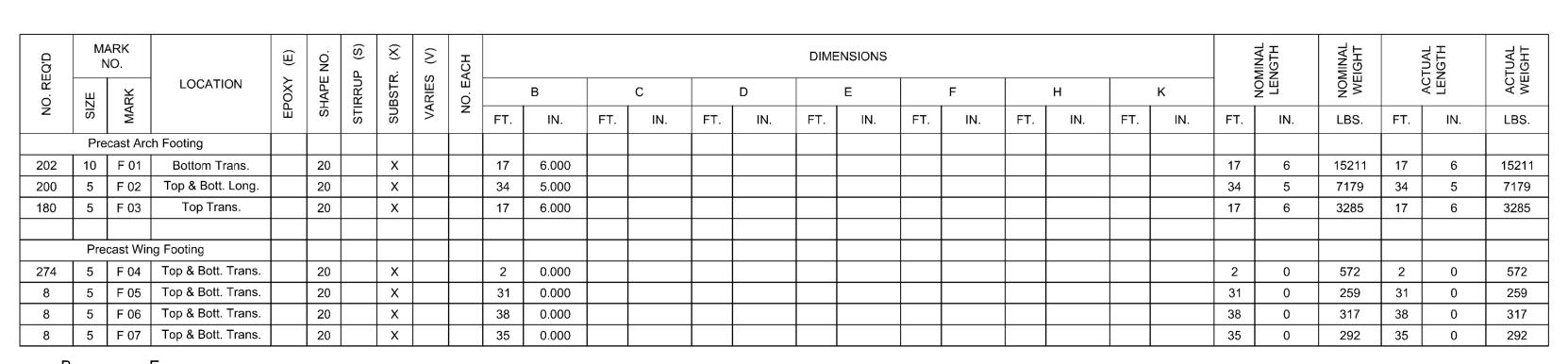


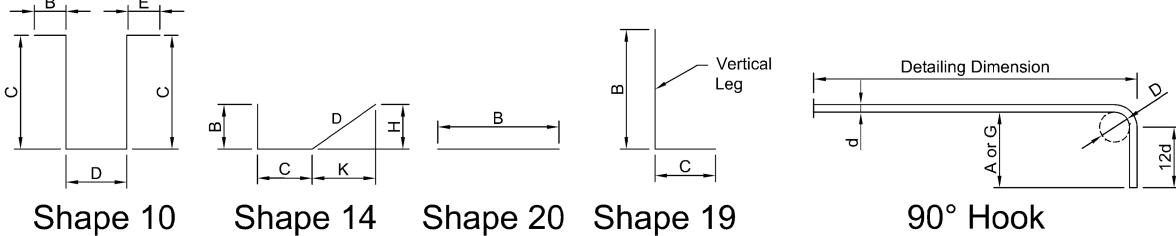


of keyway and bottom of precast bridge unit with grout.

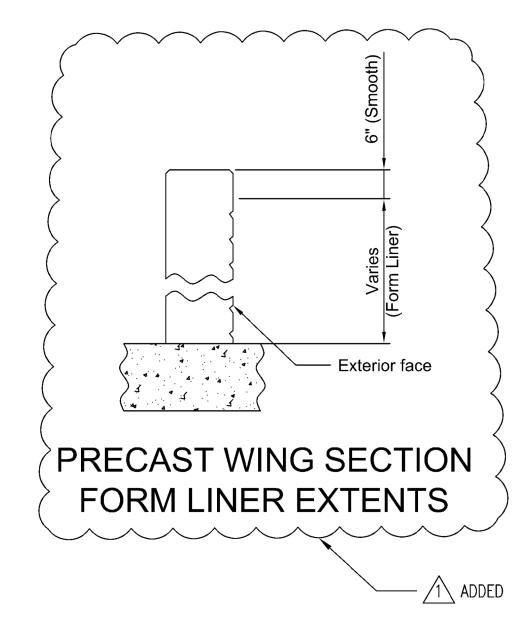








END HOOK DIMENSIONS					
		ALL GRADES			
BAR SIZE	(IN.)	180° F	looks	90° HOOKS	
<b>Q</b>	(,	A OR G	J	A OR G	
#5	3 3/4"	7"	5"	10"	



Reinforcing Notes:

All standard hooks and bends other than 180 deg. to be bent with the same procedure as for 90 deg. std. hooks.

Hooks and bends shall be in accordance with the procedures as shown on this sheet.

E = Epoxy coated reinforcement.

S = Stirrup

X = Bar is included in substructure quantities.

V = Bar dimensions vary in equal increments between dimensions shown on this line and the following line.

No. Ea. = Number of bars of each length.

Nominal lengths are based on out to out dimensions show in bending diagram and are listed for fabricator's use (nearest inch).

Actual lengths are measured along centerline bar to the nearest inch.

Payweights are based on actual lengths.

Reinforcing Steel (Grade 60) Fy= 60,000 psi



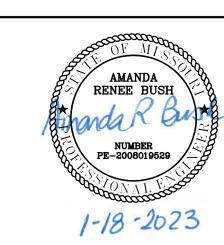
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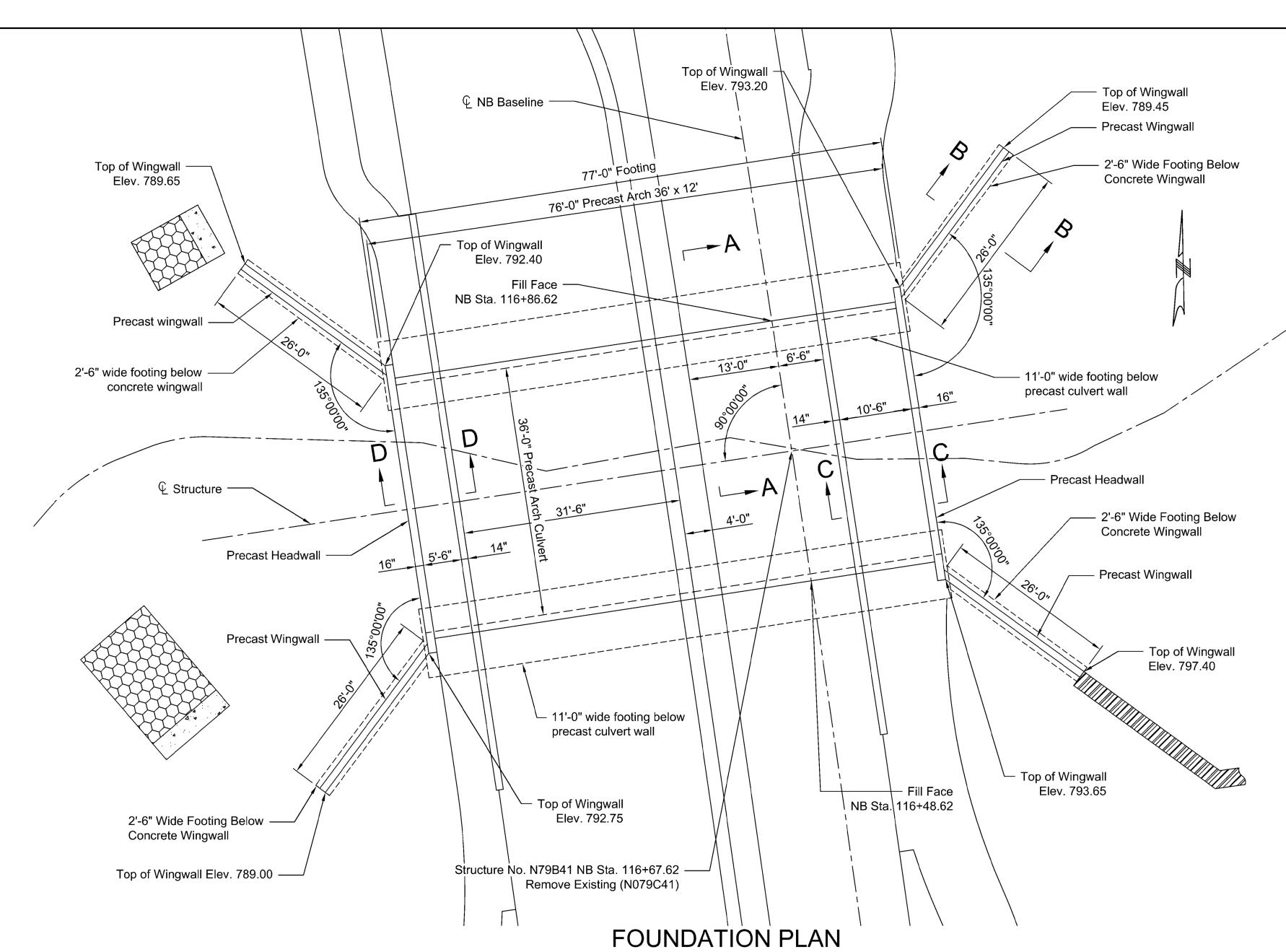


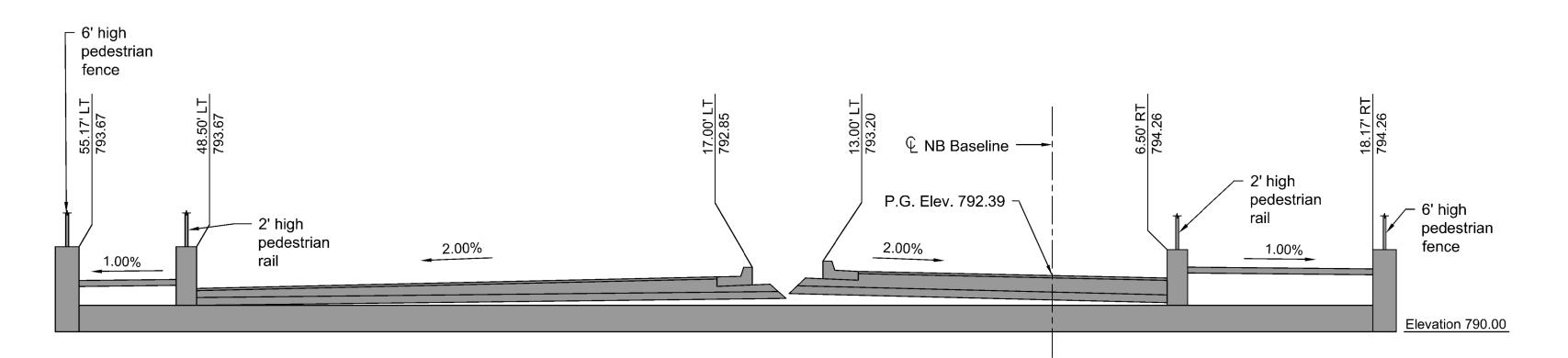
NO. DATE	SODIVITIALS
1/18/2023	Addendum 2
DESIGNED BY	
	A.R
REVIEWED BY	
	A.R.
DRAWN BY	
	T.A
PROJECT NUMBER	₹
	M08-14007-0
DATE	
	27 JANUARY 202
SHEET TITLE	

EAST FORK LINE CREEK DETAILS

SHEET NUMBER

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SECTION NB 116+67.62 - LOOKING UPSTATION

#### General Notes:

### 1. Design Specifications:

2012 AASHTO LRFD Bridge Design Specifications.

Missouri Standard Specifications For Highway Construction

2021 Edition and Amendments (All Modot references here will pertain to this specifications.)

## 2. Design Loadings:

Vehicular = HS20-44 (Modified)

Design Fill Height 1 ft. min. to 4 ft. max. earth 130 # / cu. ft.

Equivalent Fluid Pressure 55 # / Cu. Ft. (Min.) 95 Cu. Ft. (Max) Internal Friction Angle of Backfill,  $\emptyset$  = 34 Degrees

Water Pressure: 0# / Cu. Ft. (Min.); 62.4# / Cu. Ft. (Max)

## 3. Design Unit Stresses

Class B-1 Concrete (Barrier), f'c = 4,000 psi

Class B-2 Concrete (Substructure), f'c = 4,000 psi Reinforcing Steel (Grade 60) Fy = 60,000 psi

## 4. Reinforcing Steel:

Reinforcing Steel shall be deformed new billet steel conforming to ASTM A615, Grade 60.

1 REVISED

Minimum clearance to the Reinforcing Steel shall be 1 1/2 " unless otherwise shown.

All Reinforcing Steel shall be epoxy coated unless otherwise shown. All Reinforcing Steel in precast members shall (not be epoxy coated

## 5. Granular Backfill:

Excavation and backfill at bridge footings shall be in accordance with the project manual and the precast arch structure manufacturer requirements.

### 6. Foundation:

A minimum of 6" thick crushed limestone base with a maximum particle size of 0.75 inch shall be used as a base layer under footing, additional 18" width of granular backfill shall be extended outside around the footings. Spread footings to bear on limestone.

### 7. Joint Filler:

Sidewalk joint filler: 3/4" preformed fiber expansion joint material.

Barrier joint filler: 1/4" backer rod and silicone sealant.

### 8.Miscellaneous

For details of Pedestrian Fence, see project specifications.

For sections A-A, B-B, C-C & D-D, see Sheet 218.

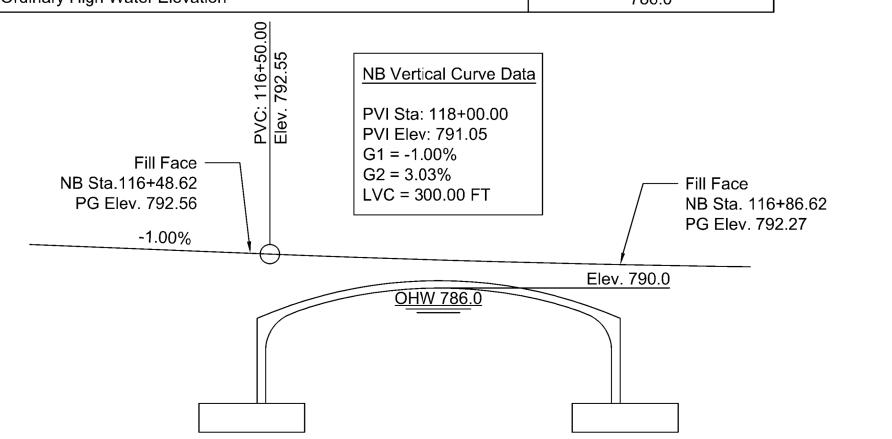
Estimated Quantities				
Item	Substr.	Superstr.	Total	
Precast Concrete 36' x 12' Arch Structur	e Ea.		1	1
Concrete (Class B-2 (Substructure))	Cu. Yd.	211.0		211.0
Reinforcing (Plain)	Lbs.	22,520		22,520
Barrier	Ln. Ft.		168	168

The cost of prefabricated wing walls is included in the cost of "Precast Concrete 30' x 12' Arch Structure".

The cost of fill on the arch structure is included in the cost of roadway fill

The cost of items not specifically included is covered in the cost of "Precast Concrete 30' x 12' Arch Structure"

The cost of items not specifically included is covered in t	ine cost of Precast Concrete 30 x 12 F
Hydrologic Data	
Drainage Area	1.4 Sq. Mi
Design Frequency	50 Years
Design Discharge	2660.8 CFS
Design High Water El. At Structure	791.53 Ft
Overtopping Elevation	792.94 Ft
100-Year Discharge	3234.5 CFS
100-Year High Water Elev. at Structure	791.94 Ft
Approach Roadway Overtopping Frequency	>100 Years
Ordinary High Water Elevation	786.0



PROFILE VIEW

walter p moore Walter P Moore and Associates, Inc.

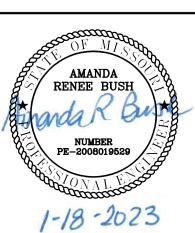
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# **WAUKOMIS DRIVE** COMPLETE **STREETS UPGRADE**

KANSAS CITY, MISSOURI CITY PROJECT NO. 89008260 FEDERAL PROJECT NO. STP-3451(402)

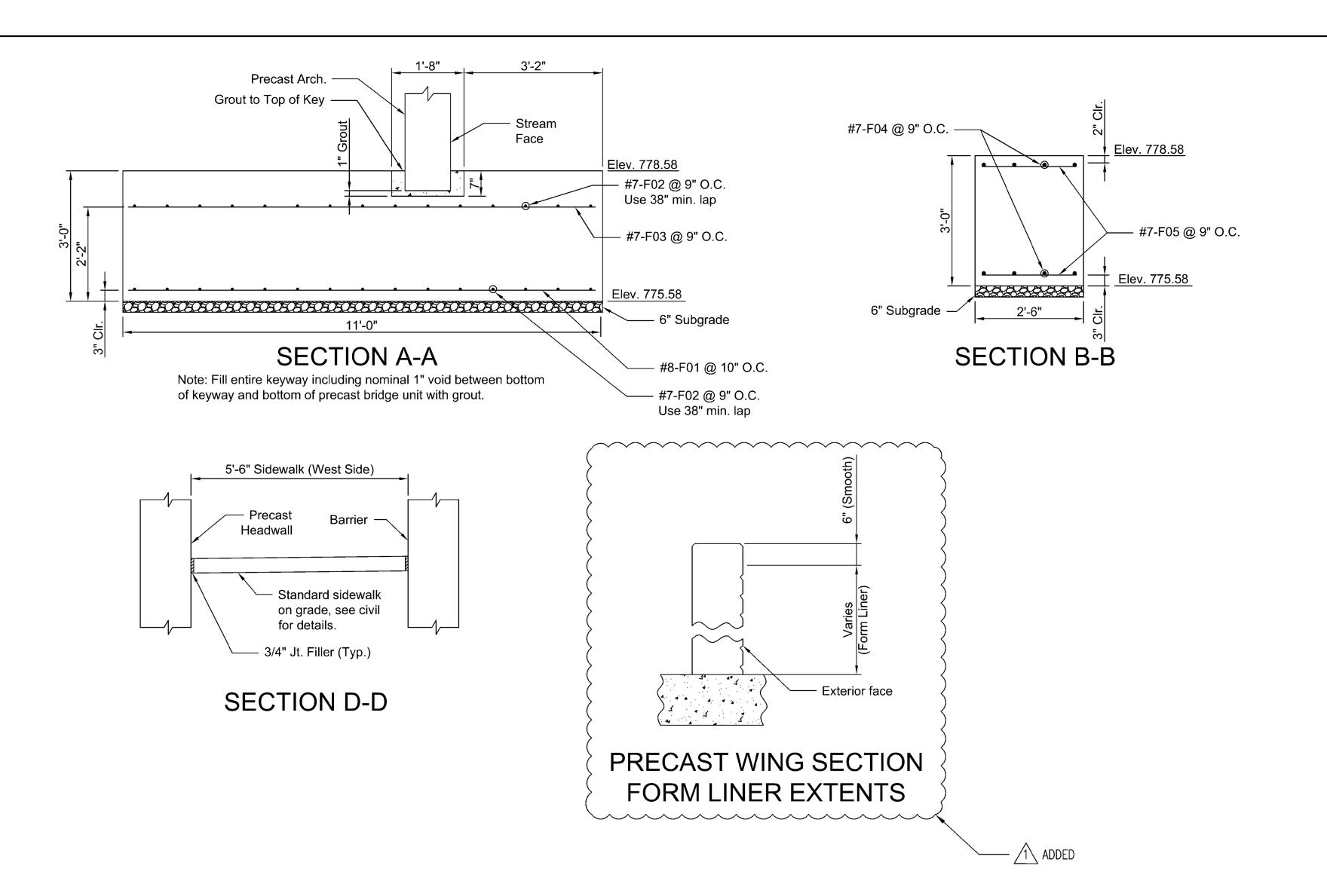


NO. DATE SUBMITTALS Addendum 2 1/18/2023 **DESIGNED BY** 

A.R.B REVIEWED BY A.R.B. DRAWN BY T.A.J. PROJECT NUMBER M08-14007-00 DATE 27 JANUARY 2022 SHEET TITLE

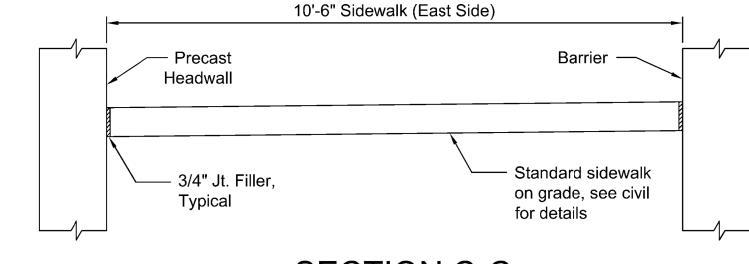
**OLD MAID'S CREEK BRIDGE LAYOUT** SHEET NUMBER

217 OF 252



**DIMENSIONS** 

IN.



SECTION C-C



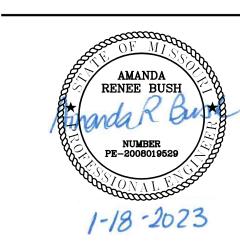
1100 Walnut, Suite 1825 Kansas City, Missouri 64106

816.701.2100 walterpmoore.com MO PE Corporation No. 1999141112



# **WAUKOMIS DRIVE** COMPLETE **STREETS UPGRADE**

KANSAS CITY, MISSOURI CITY PROJECT NO. 89008260 FEDERAL PROJECT NO. STP-3451(402)



SUBMITTALS

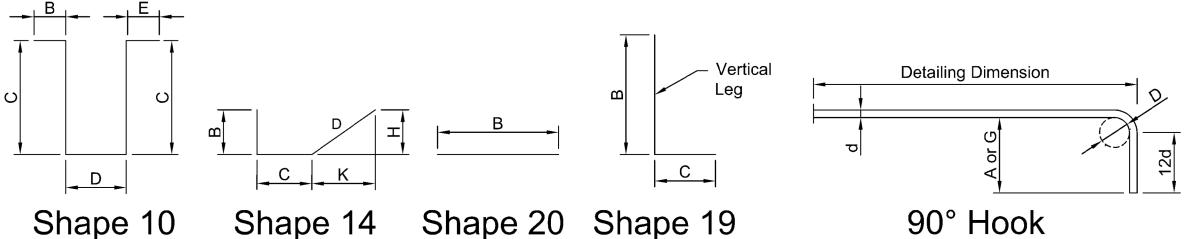
NO. DATE

	**
1/18/2023	\Lambda Addendum 2
DESIGNED BY	
	A.R.B
REVIEWED BY	
	A.R.B.
DRAWN BY	
	T.A.J.
PROJECT NUMB	ER
	M08-14007-00
DATE	
	27 JANUARY 2022
SHEET TITLE	

OLD MAID'S CREEK **DETAILS** 

SHEET NUMBER

LBS. FT. 5215 10 9731 39 10 9770 39 10 4421 4421 10 6 10 6 27 1766 27 0 1145 2 0



FT.

10

6.000

6.000

39 10.000

27 0.000

2 0.000

	END H	OOK DIME	ENSIONS			
	)	ALL GRADES				
BAR SIZE	(IN.)	180° H	90° HOOKS			
OIZE (	(,)	A OR G	J	A OR G		
#5	3 3/4"	7"	5"	10"		

Shape 20 Shape 19 Shape 10 Shape 14

20

20

20

20

| X |

| X |

MARK NO.

206 7 F 03

Precast Arch Footing

186 8 F 01 Bottom Trans.

120 7 F 02 Top & Bott. Long.

Precast Wing Footing

32 7 F 04 Top & Bott. Long.

280 7 F 05 Top & Bott. Trans.

Note: This drawing is not to scale. Follow dimensions.

LOCATION

Top Trans.

Reinforcing Steel (Grade 60) Fy= 60,000 psi

Reinforcing Notes:

for 90 deg. std. hooks.

S = Stirrup

the following line.

bar to the nearest inch.

All standard hooks and bends other than 180 deg. to be bent with the same procedure as

Hooks and bends shall be in accordance with

X = Bar is included in substructure quantities.

V = Bar dimensions vary in equal increments

between dimensions shown on this line and

No. Ea. = Number of bars of each length.

Nominal lengths are based on out to out

listed for fabricator's use (nearest inch).

Payweights are based on actual lengths.

dimensions show in bending diagram and are

Actual lengths are measured along centerline

the procedures as shown on this sheet.

E = Epoxy coated reinforcement.

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### **UNIT PRICES**

Project Number: <u>89008260</u>

Project Title: NW Waukomis Drive

Item No.	Item Description	Approx Quantity	Unit	Unit Cost	Total Cost
1	Mobilization	1	LS		
2	Construction Staking	1	LS		
3	Clearing & Grubbing	15.5	AC		
4	Removal of Improvements	1	LS		
5	Unclassified Excavation	22,553	CY		
6	Embankment	34,539	CY		
6a	Soil Treatment (if LL>40 and/or PI>25) (15% Fly Ash or 5% Cement)	34,539	CY		
7	Type 5-01 Asphaltic Concrete Surface (2" Roadway)	15,227	SY		
8	Type 1-01 Asphaltic Concrete Base (9" Roadway)	15,227	SY		
9	Type 1-01 Asphaltic Concrete Base (5")	4,740	SY		
10	Temporary Asphalt Pavement (6" Type 1-01 & 6" MoDOT Type 5)	452	SY		
11	Temporary Gravel Driveway (6")	530	SY		
12	Concrete Pavement (10")	2,815	SY		
13	Concrete Pavement (10", Stamped & Colored)	808	SY		
14	Concrete Pavement (8")	1,160	SY		
15	Concrete Median (4")	5,553	SF		

16       MoDOT Type 5 (6")       24,530       SY         17       MoDOT Type 5 (17")       266       SY         18       KDOT AB-3 (4")       7,730       SY         19       Chemically Treated Subgrade(6")       25,645       SY         20       Concrete Curb & Gutter (All types)       14,788       LF         21       Concrete Commercial Drive (8")       12,922       SF         22       Concrete Sidewalk (6")       20,366       SF         23       Concrete Trail (6")       35,243       SF         24       Concrete Sidewalk Ramp (6")       2,572       SF         25       Large Block Retaining Wall       11,613       VSF         26       Curb Inlet Type 1 (5'x4")       20       EA         27       Curb Inlet Type 2 (5'x4")       2       EA         28       Curb Inlet Type 2 (5'x4")       2       EA         29       Area Inlet (4'x4")       3       EA         30       Area Inlet (4'x4")       3       EA         31       Junction Box JB-1 (4'x4")       3       EA         32       Junction Box JB-1 (5'x5")       1       EA         33       15" RCP (Class III)       122       L		Г			1	1
18	16	MoDOT Type 5 (6")	24,530	SY		
19 Chemically Treated Subgrade(6") 25,645 SY 20 Concrete Curb & Gutter (All types) 14,788 LF 21 Concrete Commercial Drive (8") 12,922 SF 22 Concrete Sidewalk (6") 20,366 SF 23 Concrete Trail (6") 35,243 SF 24 Concrete Sidewalk Ramp (6") 2,672 SF 25 Large Block Retaining Wall 11,613 VSF 26 Curb Inlet Type 1 (5'x4') 20 EA 27 Curb Inlet Type 1 (5'x4') 4 EA 28 Curb Inlet Type 2 (5'x4') 2 EA 29 Area Inlet (4'x4') 3 EA 30 Area Inlet (5'x5) 1 EA 31 Junction Box JB-1 (4'x4') 3 EA 32 Junction Box JB-1 (5'x5') 1 EA 33 15" RCP (Class III) 1,291 LF 34 18" RCP (Class III) 62 LF	17	MoDOT Type 5 (17")	266	SY		
20 Concrete Curb & Gutter (All types) 21 Concrete Commercial Drive (8") 22 Concrete Sidewalk (6") 23 Concrete Trail (6") 24 Concrete Sidewalk Ramp (6") 25 Large Block Retaining Wall 26 Curb Inlet Type 1 (5'x4") 27 Curb Inlet Type 1 (5'x6") 28 Curb Inlet Type 2 (5'x4") 29 Area Inlet (4'x4") 30 Area Inlet (5'x5") 31 Junction Box JB-1 (4'x4") 32 Junction Box JB-1 (5'x5") 33 15" RCP (Class III) 34 18" RCP (Class III) 36 30" RCP (Class III) 37 122 LF 38 Curb Inlet Type 1 (5'x5") 38 182 LF	18	KDOT AB-3 (4")	7,730	SY		
21 Concrete Commercial Drive (8") 22 Concrete Sidewalk (6") 23 Concrete Trail (6") 24 Concrete Sidewalk Ramp (6") 25 Large Block Retaining Wall 26 Curb Inlet Type 1 (5'x4') 27 Curb Inlet Type 1 (5'x6') 28 Curb Inlet Type 2 (5'x4') 29 Area Inlet (4'x4') 30 Area Inlet (5'x5') 31 Junction Box JB-1 (4'x4') 32 Junction Box JB-1 (5'x5') 33 LFA 34 18" RCP (Class III) 35 24" RCP (Class III) 36 30" RCP (Class III) 37 SEA	19	Chemically Treated Subgrade(6")	25,645	SY		
22 Concrete Sidewalk (6") 20,366 SF 23 Concrete Trail (6") 23,5243 SF 24 Concrete Sidewalk Ramp (6") 2,572 SF 25 Large Block Retaining Wall 211,613 VSF 26 Curb Inlet Type 1 (5'x4') 20 EA 27 Curb Inlet Type 1 (5'x6') 4 EA 28 Curb Inlet Type 2 (5'x4') 2 EA 29 Area Inlet (4'x4') 3 EA 30 Area Inlet (5'x5') 1 EA 31 Junction Box JB-1 (4'x4') 3 EA 32 Junction Box JB-1 (5'x5') 1 EA 33 15" RCP (Class III) 1,291 LF 34 18" RCP (Class III) 162 LF 36 30" RCP (Class III) 182 LF	20	Concrete Curb & Gutter (All types)	14,788	LF		
23 Concrete Trail (6") 24 Concrete Sidewalk Ramp (6") 25 Large Block Retaining Wall 26 Curb Inlet Type 1 (5'x4') 27 Curb Inlet Type 1 (5'x4') 28 Curb Inlet Type 2 (5'x4') 29 Area Inlet (4'x4') 30 Area Inlet (5'x5') 1 EA  31 Junction Box JB-1 (4'x4') 3 EA  32 Junction Box JB-1 (5'x5') 1 EA  33 15" RCP (Class III) 122 LF  34 18" RCP (Class III) 182 LF	21	Concrete Commercial Drive (8")	12,922	SF		
24       Concrete Sidewalk Ramp (6")       2,572       SF         25       Large Block Retaining Wall       11,613       VSF         26       Curb Inlet Type 1 (5'x4')       20       EA         27       Curb Inlet Type 1 (5'x6')       4       EA         28       Curb Inlet Type 2 (5'x4')       2       EA         29       Area Inlet (4'x4')       3       EA         30       Area Inlet (5'x5')       1       EA         31       Junction Box JB-1 (4'x4')       3       EA         32       Junction Box JB-1 (5'x5')       1       EA         33       15" RCP (Class III)       1,291       LF         34       18" RCP (Class III)       122       LF         35       24" RCP (Class III)       62       LF         36       30" RCP (Class III)       182       LF	22	Concrete Sidewalk (6")	20,366	SF		
25 Large Block Retaining Wall 26 Curb Inlet Type 1 (5'x4') 20 EA  27 Curb Inlet Type 1 (5'x6') 4 EA  28 Curb Inlet Type 2 (5'x4') 2 EA  29 Area Inlet (4'x4') 3 EA  30 Area Inlet (5'x5') 1 EA  31 Junction Box JB-1 (4'x4') 3 EA  32 Junction Box JB-1 (5'x5') 1 EA  33 15" RCP (Class III) 122 LF  35 24" RCP (Class III) 182 LF	23	Concrete Trail (6")	35,243	SF		
26       Curb Inlet Type 1 (5'x4')       20       EA         27       Curb Inlet Type 1 (5'x6')       4       EA         28       Curb Inlet Type 2 (5'x4')       2       EA         29       Area Inlet (4'x4')       3       EA         30       Area Inlet (5'x5')       1       EA         31       Junction Box JB-1 (4'x4')       3       EA         32       Junction Box JB-1 (5'x5')       1       EA         33       15" RCP (Class III)       1,291       LF         34       18" RCP (Class III)       122       LF         35       24" RCP (Class III)       62       LF         36       30" RCP (Class III)       182       LF	24	Concrete Sidewalk Ramp (6")	2,572	SF		
27 Curb Inlet Type 1 (5'x6')  28 Curb Inlet Type 2 (5'x4')  29 Area Inlet (4'x4')  30 Area Inlet (5'x5')  1 EA  31 Junction Box JB-1 (4'x4')  3 EA  32 Junction Box JB-1 (5'x5')  1 EA  33 15" RCP (Class III)  1,291 LF  34 18" RCP (Class III)  122 LF  35 24" RCP (Class III)  62 LF  36 30" RCP (Class III)  182 LF	25	Large Block Retaining Wall	11,613	VSF		
28 Curb Inlet Type 2 (5'x4') 29 Area Inlet (4'x4') 30 Area Inlet (5'x5') 11 EA 31 Junction Box JB-1 (4'x4') 32 Junction Box JB-1 (5'x5') 11 EA 32 Junction Box JB-1 (5'x5') 11 EA 33 15" RCP (Class III) 1,291 LF 34 18" RCP (Class III) 122 LF 35 24" RCP (Class III) 62 LF 36 30" RCP (Class III)	26	Curb Inlet Type 1 (5'x4')	20	EA		
29 Area Inlet (4'x4')  30 Area Inlet (5'x5')  11 EA  31 Junction Box JB-1 (4'x4')  32 Junction Box JB-1 (5'x5')  1 EA  33 15" RCP (Class III)  1,291 LF  34 18" RCP (Class III)  122 LF  35 24" RCP (Class III)  62 LF  36 30" RCP (Class III)  182 LF	27	Curb Inlet Type 1 (5'x6')	4	EA		
30 Area Inlet (5'x5')  1 EA  31 Junction Box JB-1 (4'x4')  3 EA  32 Junction Box JB-1 (5'x5')  1 EA  33 15" RCP (Class III)  1,291 LF  34 18" RCP (Class III)  122 LF  35 24" RCP (Class III)  62 LF  36 30" RCP (Class III)  182 LF	28	Curb Inlet Type 2 (5'x4')	2	EA		
31 Junction Box JB-1 (4'x4')  32 Junction Box JB-1 (5'x5')  1 EA  33 15" RCP (Class III)  1,291 LF  34 18" RCP (Class III)  122 LF  35 24" RCP (Class III)  62 LF  36 30" RCP (Class III)  182 LF	29	Area Inlet (4'x4')	3	EA		
32 Junction Box JB-1 (5'x5')  1 EA  33 15" RCP (Class III)  1,291 LF  34 18" RCP (Class III)  122 LF  35 24" RCP (Class III)  62 LF  36 30" RCP (Class III)  182 LF	30	Area Inlet (5'x5')	1	EA		
33 15" RCP (Class III) 1,291 LF  34 18" RCP (Class III) 122 LF  35 24" RCP (Class III) 62 LF  36 30" RCP (Class III) 182 LF	31	Junction Box JB-1 (4'x4')	3	EA		
34 18" RCP (Class III) 122 LF  35 24" RCP (Class III) 62 LF  36 30" RCP (Class III) 182 LF	32	Junction Box JB-1 (5'x5')	1	EA		
35 24" RCP (Class III) 62 LF  36 30" RCP (Class III) 182 LF	33	15" RCP (Class III)	1,291	LF		
36 30" RCP (Class III) 182 LF	34	18" RCP (Class III)	122	LF		
	35	24" RCP (Class III)	62	LF		
37 36" RCP (Class III) 607 LF	36	30" RCP (Class III)	182	LF		
	37	36" RCP (Class III)	607	LF		

38	15" RCP End Section	6	EA	
39	18" RCP End Section	1	EA	
40	36" RCP End Section	1	EA	
41	6" Perforated HDPE	584	LF	
42	6" Solid PVC	73	LF	
43	Tied Concrete Block Mat	32,605	SF	
44	Type 3 Rock Ditch Liner	51	SY	
45	Construction Fencing	746	LF	
46	Ornamental Fencing (6')	556	LF	
47	Ornamental Fencing (2')	254	LF	
48	Black Vinyl Coated Chain Link Fencing (6')	191	LF	
49	Chain Link Fencing (6')	1,174	LF	
50	Chain Link Fencing (8')	75	LF	
51	Private Signage	1	EA	
52	Biodegradable Logs	1,463	LF	
53	Curb Inlet Protection	27	EA	
54	Area Inlet Protection	3	EA	
55	Junction Box Protection	4	EA	
56	Construction Entrance	3,423	SF	
57	Rock Check Dam	16	EA	
58	Utility Structure Top Adjustment	10	EA	
59	Project Information Signs	2	EA	

60	Variable Message Signs	2	EA	
61	Precast Concrete Arch Structure (36' Wide)	1	EA	
62	Precast Concrete Arch Structure (60' X12')	1	EA	
63	Concrete (Class B-2 (Substructure))	470	CY	
64	Reinforcing Steel	49,640	LBS	
65	Pedestrian Barrier Wall	336	LF	
66	Temporary Sign, M4-8 (24x12)	7	EA	
67	Temporary Sign, M4-9L (30x24)	4	EA	
68	Temporary Sign, M4-9R (30x24)	5	EA	
69	Temporary Sign, M6-3 (21x15)	7	EA	
70	Temporary Sign, CW20-1D (48x48)	4	EA	
71	Temporary Sign, W20-3 (48x48)	5	EA	
72	Temporary Sign, W16-8a (24x15)	18	EA	
73	Temporary Sign, R11-2 (48x30)	10	EA	
74	Temporary Sign, R11-4 (60x30)	30	EA	
75	Temporary Sign, R3-1 (36x36)	2	EA	
76	Temporary Sign, R3-2 (36x36)	1	EA	
77	Existing Signage Removal	1	LS	
78	Flat Sheet Signs	563	SF	
79	Sign Post	74	EA	
80	RRFB System (Set of 2 Poles)	2	EA	
81	Preformed Thermoplastic Pavement Marking, 4 In. White	3,000	LF	

82	Preformed Thermoplastic Pavement Marking, 6 In. White	6,500	LF	
83	Preformed Thermoplastic Pavement Marking, 4 In. Yellow	3,050	LF	
84	Preformed Thermoplastic Pavement Marking, 8 In. White	185	LF	
85	Preformed Thermoplastic Pavement Marking, 12 In. White	80	LF	
86	Preformed Thermoplastic Pavement Marking, 12 In. Yellow	140	LF	
87	Preformed Thermoplastic Pavement Marking, 24 In. White	700	LF	
88	Preformed Thermoplastic Pavement Marking, Left Arrow	12	EA	
89	Preformed Thermoplastic Pavement Marking, Right Arrow	1	EA	
90	Preformed Thermoplastic Pavement Marking, 2'x6' Thru Arrow	21	EA	
91	Preformed Thermoplastic Pavement Marking, Right & Thru Shared Arrow	2	EA	
92	Preformed Thermoplastic Pavement Marking, Left & Thru Shared Arrow	2	EA	
93	Preformed Thermoplastic Pavement Marking, "ONLY"	4	EA	
94	Preformed Thermoplastic Pavement Marking, Shared Lane Marking	6	EA	
95	Preformed Thermoplastic Pavement Marking, 6'x4' Bicycle	13	EA	
96	Preformed Thermoplastic Pavement Marking, "BIKE LANE"	9	EA	
97	Preformed Thermoplastic Pavement Marking, Yield Line Triangles	20	EA	
98	Conduit (3") Trench	3,883	LF	
99	Conduit (3") Bore	3,955	LF	
100	Type II Pull Box (Fiber Optic)	14	EA	
101	96-CT Fiber Optic Cable	3,883	LF	
102	192-CT Fiber Optic Cable (Relocated)	3,955	LF	
103	Fiber Splice	3	EA	

104	Luminaire Design Parameter 'A'	48	EA	
105	Pole (35') Design Parameter 'A'	48	EA	
106	Luminaire Design Parameter 'B' (KCMO Type B LED)	1	EA	
107	Pole (30') Design Parameter 'B'	1	EA	
108	Type 'B' Arm (6'-0")	1	EA	
109	1 #10 RHW/USE Internal Pole Wire	5,100	LF	
110	2 # 4 RHH/RHW/USE, 1 #4 CU GND., 2" CID	5,900	LF	
111	2 # 6 RHH/RHW/USE, 1 #6 CU GND., 2" CID	1,450	LF	
112	3" HDPE Conduit For KCP&L Feed	200	LF	
113	2" Empty Conduit for Future Lighting at South Roundabout	80	LF	
114	1 #6 AWG Bare Copper Wire	200	LF	
115	4 Circuit Lighting Controller	2	EA	
116	Ground Rod	2	EA	
117	Fuse Kits	96	EA	
118	Non-Fussed Fuse Kits	49	EA	
119	Cable Retainers	49	EA	
120	Screw In Light Pole Base	49	EA	
121	ID Tag	51	EA	
122	Concrete Foundations for Lighting Controller	2	EA	
123	Evergy Electrical Service That Include Evergy Pole Mounted Transformer	2	EA	
124	Pull Box	6	EA	
125	Trench and Backfill	7,350	LF	

126	Luminare and Arm Removal	24	EA	
127	Wood Pole Removal and Equipment	22	EA	
128	Metal Pole Removal and Equipment	2	EA	
129	Power Hookups For Evergy Power Sources	2	EA	
130	Deciduous Tree (2.5" Caliper)	126	EA	
131	Perennials (#1 Containers)	4,124	EA	
132	Perennials (4" Pot)	987	EA	
133	Plugs	3,134	EA	
134	Bulbs	271	EA	
135	Fescue Sod	17,403	SY	
136	Native Seed & Wildflower Seeding	3.6	AC	
137	Temporary Seed	3.6	AC	
138	RPM Tree (#3)	233	EA	
139	RPM Shrub (#3)	102	EA	
140	Tree Hydration Bladder (36" Diameter)	126	EA	
141	Hydraulic Erosion Control	17,424	SY	
142	Straw Wattles	1,170	LF	
143	Infiltration Trench	245	CY	
144	Infiltration Testing	8	EA	
145	Pretreatment Chambers	7	EA	
146	Stone Veneer Assemblies	1,630	SFF	
147	Steel Landscape Edging	627	LF	

148	Trench Edging	2,671	LF	
149	Cast-in-Place Concrete Wall	112	CY	
150	Dry Stack Masonry Walls	810	CF	
151	Limestone Boulders (Medium)	30	EA	
152	Limestone Boulders (Large)	13	EA	
153	River Rock (Buffalo River Rock)	7,540	SF	
154	Decorative Aggregate (MO Rainbow Oversized)	3,045	SF	
			TOTAL:	

Bidder:
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#### **UNIT PRICES**

Project Number: City Project No. 89008260; Federal Project No. STP 3451(402)

Project Title: Waukomis Drive Complete Streets Upgrade

#### NOTE: IN THE EVENT OF DISCREPANCY, UNIT PRICE SHALL GOVERN.

tem No.	Spec Sec.	Unit	Quantity	Item Description:	Unit Price	Extension
ROADWAY	·					
1		LS	1	MOBILIZATION		
2		LS	1	CONSTRUCTION STAKING		
3		AC	15.5	CLEARING & GRUBBING		
4		LS	1	REMOVAL OF IMPROVEMENTS		
5		CY	22,553	UNCLASSIFIED EXCAVATION		
6		CY	34,539	EMBANKMENT		
6a		CY	34,539	SOIL TREATMENT (IF LL>40 AND/OR PI>25) (15% FLY ASH OR 5% CEMENT)		
7		SY	15,227	TYPE 5-01 ASPHALTIC CONCRETE SURFACE (2" ROADWAY)		
8		SY	15,227	TYPE 1-01 ASPHALTIC CONCRETE BASE (9" ROADWAY)		
9		SY	4,740	TYPE 1-01 ASPHALTIC CONCRETE BASE (5")		
10		SY	452	TEMPORARY ASPHALT PAVEMENT (6" TYPE 1-01 & 6" MODOT TYPE 5)		
11		SY	530	TEMPORARY GRAVEL DRIVEWAY (6")		
12		SY	2,815	CONCRETE PAVEMENT (10")		
13		SY	808	CONCRETE PAVEMENT (10", STAMPED & COLORED)		
14		SY	1,160	CONCRETE PAVEMENT (8")		
15		SF	5,553	CONCRETE MEDIAN (4")		
16		SY	24,530	MODOT TYPE 5 (6")		
17		SY	266	MODOT TYPE 5 (17")		
18		SY	7,730	KDOT AB-3 (4")		
19		SY	25,645	CHEMICALLY TREATED SUBGRADE(6")		
20		LF	14,788	CONCRETE CURB & GUTTER (ALL TYPES)		
21		SF	12,922	CONCRETE COMMERCIAL DRIVE (8")		
22		SF	20,366	CONCRETE SIDEWALK (6")		
23		SF	35,243	CONCRETE TRAIL (6")		
24		SF	2,572	CONCRETE SIDEWALK RAMP (6")		
25		VSF	11,613	LARGE BLOCK RETAINING WALL		
26		EA	20	CURB INLET TYPE 1 (5'X4')		
27		EA	4	CURB INLET TYPE 1 (5'X6')		
28		EA	2	CURB INLET TYPE 2 (5'X4')		
29		EA	3	AREA INLET (4'X4')		
30		EA	1	AREA INLET (5'X5')		
31		EA	3	JUNCTION BOX JB-1 (4'X4')		
32		EA	1	JUNCTION BOX JB-1 (5'X5')		
33		LF	1,291	15" RCP (CLASS III)		
34		LF	122	18" RCP (CLASS III)		
35		LF	62	24" RCP (CLASS III)		
36		LF	182	30" RCP (CLASS III)		
37		LF	607	36" RCP (CLASS III)		
38		EA	6	15" RCP END SECTION		
39		EA	1	18" RCP END SECTION		
40		EA	1	36" RCP END SECTION		
41		LF	584	6" PERFORATED HDPE		
42		LF	73	6" SOLID PVC		
43		SF	32,605	TIED CONCRETE BLOCK MAT		
44		SY	51	TYPE 3 ROCK DITCH LINER		
45		LF	746	CONSTRUCTION FENCING		
46		LF	556	ORNAMENTAL FENCING (6')		
47		LF	254	ORNAMENTAL FENCING (2')		
48		LF	191	BLACK VINYL COATED CHAIN LINK FENCING (6')		
49		LF	1,174	CHAIN LINK FENCING (6')		
50		LF	75	CHAIN LINK FENCING (8')		
51		EA	1	PRIVATE SIGNAGE		
52		LF	1,463	BIODEGRADABLE LOGS		
53		EA	27	CURB INLET PROTECTION		
54		EA	3	AREA INLET PROTECTION		
55		EA	4	JUNCTION BOX PROTECTION		
56		SF	3,423	CONSTRUCTION ENTRANCE		
57		EA	16	ROCK CHECK DAM		
58		EA	10	UTILITY STRUCTURE TOP ADJUSTMENT		
	+	EA	2	PROJECT INFORMATION SIGNS		i

1

Bidder:
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Item No.	Spec Sec.	Unit	Quantity	Item Description:	Unit Price	Extension
60		EA	2	VARIABLE MESSAGE SIGNS		
				ROADWAY SUBTOTAL:		

BRIDGES	BRIDGES								
61		EA	1	PRECAST CONCRETE ARCH STRUCTURE (36' Wide)					
62		EA	1	PRECAST CONCRETE ARCH STRUCTURE (60' X12')					
63		CY	470	CONCRETE (CLASS B-2 (SUBSTRUCTURE))					
64		LBS	49,640	REINFORCING STEEL					
65		LF	336	PEDESTRIAN BARRIER WALL					
				BRIDGES SUBTOTAL:					

EMPORARY TRAFFIC CONTROL SIGNAGE & EQUIPMENT								
66	EA	7	TEMPORARY SIGN, M4-8 (24X12)					
67	EA	4	TEMPORARY SIGN, M4-9L (30X24)					
68	EA	5	TEMPORARY SIGN, M4-9R (30X24)					
69	EA	7	TEMPORARY SIGN, M6-3 (21X15)					
70	EA	4	TEMPORARY SIGN, CW20-1D (48X48)					
71	EA	5	TEMPORARY SIGN, W20-3 (48X48)					
72	EA	18	TEMPORARY SIGN, W16-8A (24X15)					
73	EA	10	TEMPORARY SIGN, R11-2 (48X30)					
74	EA	30	TEMPORARY SIGN, R11-4 (60X30)					
75	EA	2	TEMPORARY SIGN, R3-1 (36X36)					
76	EA	1	TEMPORARY SIGN, R3-2 (36X36)					

RAFFIC - SIGNAGE & PAVEMENT MARKINGS							
77	LS	1	EXISTING SIGNAGE REMOVAL				
78	SF	563	FLAT SHEET SIGNS				
79	EA	74	SIGN POST				
80	EA	2	RRFB SYSTEM (SET OF 2 POLES)				
81	LF	3,000	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 4 IN. WHITE				
82	LF	6,500	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6 IN. WHITE				
83	LF	3,050	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 4 IN. YELLOW				
84	LF	185	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 8 IN. WHITE				
85	LF	80	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 12 IN. WHITE				
86	LF	140	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 12 IN. YELLOW				
87	LF	700	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE				
88	EA	12	PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW				
89	EA	1	PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW				
90	EA	21	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 2'X6' THRU ARROW				
91	EA	2	PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT & THRU SHARED ARROW				
92	EA	2	PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT & THRU SHARED ARROW				
93	EA	4	PREFORMED THERMOPLASTIC PAVEMENT MARKING, "ONLY"				
94	EA	6	PREFORMED THERMOPLASTIC PAVEMENT MARKING, SHARED LANE MARKING				
95	EA	13	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6'X4' BICYCLE				
96	EA	9	PREFORMED THERMOPLASTIC PAVEMENT MARKING, "BIKE LANE"				
97	EA	20	PREFORMED THERMOPLASTIC PAVEMENT MARKING, YIELD LINE TRIANGLES				
			TRAFFIC - SIGNAGE & PAVEMENT MARKINGS:				

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98		LF	3,883	CONDUIT (3") TRENCH				
99		LF	3,955	CONDUIT (3") BORE				
100		EA	14	TYPE II PULL BOX (FIBER OPTIC)				
101		LF	3,883	96-CT FIBER OPTIC CABLE				
102		LF	3,955	192-CT FIBER OPTIC CABLE (RELOCATED)				
103		EA	3	FIBER SPLICE				

STREET LI	STREET LIGHTING								
104		EA	48	LUMINAIRE DESIGN PARAMETER 'A'					
105		EA	48	POLE (35') DESIGN PARAMETER 'A'					
106		EA	1	LUMINAIRE DESIGN PARAMETER 'B' (KCMO TYPE B LED)					
107		EA	1	POLE (30') DESIGN PARAMETER 'B'					
108		EA	1	TYPE 'B' ARM (6'-0")					
109		LF	5,100	1 #10 RHW/USE INTERNAL POLE WIRE					
110		LF	5,900	2 # 4 RHH/RHW/USE, 1 #4 CU GND., 2" CID					
111		LF	1,450	2 # 6 RHH/RHW/USE, 1 #6 CU GND., 2" CID					
112		LF	200	3" HDPE CONDUIT FOR KCP&L FEED					
113		LF	80	2" EMPTY CONDUIT FOR FUTURE LIGHTING AT SOUTH ROUNDABOUT					
114		LF	200	1 #6 AWG BARE COPPER WIRE					
115		EA	2	4 CIRCUIT LIGHTING CONTROLLER					
116		EA	2	GROUND ROD					
117		EA	96	FUSE KITS					

Bidder:
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Item No.	Spec Sec.	Unit	Quantity	Item Description:	Unit Price	Extension
118		EA	49	NON-FUSSED FUSE KITS		
119		EA	49	CABLE RETAINERS		
120		EA	49	SCREW IN LIGHT POLE BASE		
121		EA	51	ID TAG		
122		EA	2	CONCRETE FOUNDATIONS FOR LIGHTING CONTROLLER		
123		EA	2	EVERGY ELECTRICAL SERVICE THAT INCLUDE EVERGY POLE MOUNTED TRANSFORMER		
124		EA	6	PULL BOX		
125		LF	7,350	TRENCH AND BACKFILL		
126		EA	24	LUMINARE AND ARM REMOVAL		
127		EA	22	WOOD POLE REMOVAL AND EQUIPMENT		
128		EA	2	METAL POLE REMOVAL AND EQUIPMENT		
129		EA	2	POWER HOOKUPS FOR EVERGY POWER SOURCES		
			l	STREET LIGHTING	i:	
					1	
LANDSCA	PE					
130		EA	126	DECIDUOUS TREE (2.5" CALIPER)		
131		EA	4,124	PERENNIALS (#1 CONTAINERS)		
132		EA	987	PERENNIALS (4" POT)		
133		EA	3,134	PLUGS		
134		EA	271	BULBS		
135		SY	17,403	FESCUE SOD		
136		AC	3.6	NATIVE SEED & WILDFLOWER SEEDING		
137		AC	3.6	TEMPORARY SEED		
138		EA	233	RPM TREE (#3)		
139		EA	102	RPM SHRUB (#3)		
140		EA	126	TREE HYDRATION BLADDER (36" DIAMETER)		
141		SY	17,424	HYRDAULIC EROSION CONTROL		
142		LF	1,170	STRAW WATTLES		
143		CY	245	INFILTRATION TRENCH		
144		EA	8	INFILTRATION TESTING		
145		EA	7	PRETREATMENT CHAMBERS		
146		SFF	1,630	STONE VENEER ASSENBLIES		
147		LF	627	STEEL LANDSCAPE EDGING		
148		LF	2,671	TRENCH EDGING		
149		CY	112	CAST-IN-PLACE CONCRETE WALL		
150		CF	810	DRY STACK MASONRY WALLS		
151		EA	30	LIMESTONE BOULDERS (MEDIUM)		
152		EA	13	LIMESTONE BOULDERS (LARGE)		
153		SF	7,540	RIVER ROCK (BUFFALO RIVER ROCK)		
154		SF	3,045	DECORATIVE AGGREGATE (MO RAINBOW OVERSIZED)		
			•	LANDSCAPING	i:	•
					•	
				GRAND TOTAL	:	

Note: May be printed, for manual fill-in, or filled in on electronic excel spreadsheet version.