Utility Contacts:
- AT&T
- Consolidated Communications
- Google Fiber
- Google Fiber
- Lumen
- Spectrum Charter
- Sprint Energy

City of Kansas City, Missouri:
- RideKC Streetcar
- KCATA
- KCART
- PortKC

Kansas City Area Transportation Authority with City of Kansas City, Missouri.

Kansas City Streetcar Riverfront Extension

General Contractor:

Project No.: 2021-SC-3P01

Issued for Bid: December 2022

FTA FAIN #: MO-2022-002-00

KCMO Project No.: 89022015

This work will be called Package 6 (Pkg 6) and will be posted on KCATA’s website for a General Contractor bid.

These plans have been separated into different packets to assist potential subcontractors in reviewing their potential scopes of work.

https://www.kcata.org/about_kcata/entries/current_opportunities

KANSAS CITY STREETCAR RIVERFRONT EXTENSION

PROPOSED RIVERFRONT EXTENSION

VEHICLE MAINTENANCE FACILITY

EXISTING DAILY LINE

LENGTH OF PROJECT

ENTRY NO.

LCI WEST END

BEGINNING OF PROJECT

STA 1194+00.00 EB HIGHWAY

BASELINE

STA 1190+89.24 SB HIGHWAY

END OF PROJECT

STA 1204+02.51 EB HIGHWAY

STA 2364+48.28 SB HIGHWAY

PROJECT TRAVEL LENGTH

3.785 FT FEET

3.669 METERS

TOTAL TRAVEL LENGTH

7.442 FT (1.4 MILES)

APPROVED BY:

STATE PROJECT MANAGER

KCMO DIRECTOR OF TRANSPORTATION

KCMO CITY ENGINEER

KCMO DIRECTOR OF PUBLIC WORKS

KANSAS CITY STREETCAR AUTHORITY

KANSAS CITY STREETCAR AUTHORITY OF KANSAS CITY, MO
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**INDEX OF DRAWINGS**

**Sheet 3**

**KANSAS CITY STREETCAR - RIVERFRONT EXTENSION**

**Issued For:**

**Date:** 10-23-2020

**NOT FOR CONSTRUCTION**
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**NOTE:** This page is not for construction. These plans are intended to provide information about the project.

**KANSAS CITY STREETCAR - RIVERFRONT EXTENSION**

**INDEX OF DRAWINGS**

**SHEET 4**

**ISSUED FOR:**

**DATE:** 12-22-2020

**G013**

302837
GENERAL NOTES

TRAFFIC SIGNAL GENERAL NOTES

PROJECT SPECIFIC NOTES

1) All signal poles and luminaries are to be City standard, unless specifically noted on the plans or Plans and Specifications. Traffic signal poles with smart arms selected under the proposed system will require a modified installation height. Refer to sheet T011 for the various installation methods.

2) All signal heads shall be attached to the pole at the height specified on the plans or Plans and Specifications.

3) All signal heads shall be attached to the pole at the height specified on the plans or Plans and Specifications.

4) All signal heads shall be attached to the pole at the height specified on the plans or Plans and Specifications.

5) All signal heads shall be attached to the pole at the height specified on the plans or Plans and Specifications.

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29) All signal heads shall be attached to the pole at the height specified on the plans or Plans and Specifications.

30) All signal heads shall be attached to the pole at the height specified on the plans or Plans and Specifications.
GENERAL NOTES

1. CONTRACTOR TO MODIFY THE SIGNALS AS SHOWN IN THE PLANS. MODIFICATIONS SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

2. CONTRACTOR TO INSTALL NEW RADAR DETECTION EQUIPMENT.

3. CONTRACTOR TO INSTALL NEW APS RECEIVERS SIGNAL EQUIPMENT IN ACCORDANCE WITH PREVIOUS GUIDELINES.

4. ALL REMOVED SIGNAL AND LIGHTING APPLIANCES TO BE RETURNED TO KCMO PUBLIC WORKS TRAFFIC SIGNAL SECTION.
TRAFFIC SIGNAL SYMBOLS

OPTICALLY LIMITING TRAFFIC SIGNAL HEAD
TRAFFIC SIGNAL HEAD
TRAFFIC SIGNAL HEAD WITH BACK PLATE
PEDESTRIAN SIGNAL HEAD
EXISTING SIGNAL HEAD
STOP BAR
L A N E USE

STEEL POLE
COMBINATION OCC/SIGNAL POLE
MAST ARM POLE
SIGNAL PEDESTAL
CONTROLLER
PULL BOX
SPAN WIRE WITH SIGNAL HEAD
STREETLIGHT CONTROLLER

SIGN ON MAST-ARM/POLE
OPTICOM DETECTOR
RADAR DETECTOR
POWER SUPPLY ASSEMBLY
CONDUIT IN TRENCH
CONDUIT PUSHED
SIZE OF CONDUIT
3-2c #14 NUMBER & SIZE OF CABLE
SIGNAL FACE NUMBER
POST NUMBER
PULL BOX NUMBER
SHOEBOX LUMINARIE
VEHICULAR DETECTION CAMERA
ITS PULLBOX
TRAIN CABINET

R  RED LENS
Y  YELLOW LENS
G  GREEN LENS
R  RED LEFT ARROW LENS
Y  YELLOW LEFT ARROW LENS
G  GREEN LEFT ARROW LENS
R  RED RIGHT ARROW LENS
Y  YELLOW RIGHT ARROW LENS
G  GREEN RIGHT ARROW LENS
R  RED STRAIGHT ARROW LENS
Y  YELLOW STRAIGHT ARROW LENS
G  GREEN STRAIGHT ARROW LENS
W  WALK
DW  DON'T WALK
FDW FOSSIL DON'T WALK
The above ring and lid dimensions for Type 1 pull boxes are applicable if installed within a traveled way. If Type 1 pull boxes are installed within a grass area, the following ring (reversible) and lid dimensions can be used.

**TYPICAL SECTION**

Dimensions in inches:

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<th>Part</th>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<td>25</td>
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**TRAFFIC SIGNAL PULL BOX DETAILS**

**TYPE A PULL BOX**

**TYPE B PULL BOX**

**RING BOTTOM PLATE**

**COVER SECTION**

**REBAR DETAIL**

**CROSS SECTION**
Traffic Signal PTZ Camera Install Details

Notes:
1. All PTZ cameras should be oriented at a 55 ft height from the pavement surface.
PEDESTRIAN PUSHBUTTON POLE DETAILS
PUSHBUTTONS SHOWN NOT ACTUAL PUSHBUTTON

PEDESTRIAN CURB

TYPE "C" BREAKWAY
BASE

TOP OF SIDEWALK
AIR SHIMMER

1/4" PREMIXED
JOINT FILLER

RECEIPT SLEEVE AND NUT

PIPE CAP

STAINLESS STEEL STRAP (TOP)

EXTENSION BAR TO BE COMPATIBLE PRODUCT
WITH SEE PUSH BUTTON STATION

FACE OF CURB

12" HLD.

T210 3

KANSAS CITY STREETCAR - RIVERFRONT EXTENSION
TRAFFIC SIGNAL
SIGNAL DETAILS
PEDESTRIAN PUSHBUTTON POLE DETAILS

NOT FOR CONSTRUCTION
2-WAY PEDESTRIAN PUSH BUTTON DETAIL WITH ADAPTERS

TYPE 5" FOUNDATION AS PER CITY SPECIFICATIONS
CONDUIT COUPLING - INSTALL FLUSH WITH TOP OF FOUNDATION
TOP OF FOUNDATION
1/4" PREMOLDED JOINT FILLER

TRAFFIC SIGNAL PEDESTRIAN PUSHBUTTON POLE DETAILS

FOUNDATION DETAIL

TYPE 5" FOUNDATION AS PER CITY SPECIFICATIONS
1/2" DIAM, ELECTRICAL CONDUIT
2.0" DIAM. (FOR ROUND FOUNDATION)
1.0" (FOR SQUARE FOUNDATION)

ANCHOR BOLT TEMPLATE

4 1/2" DIAM. BOLT CIRCLE
1/4" STEEL PLATE

1 1/2" DIAM. HOLE (17)
1 1/2" DIAM. HOLE (16)

FIELD DRILL AND TAP FOR 2 1/8" BOLT
FIELD DRILL AND TAP FOR 1/2" CHASE NIPPLE

PEDESTRIAN PUSH BUTTON POST

1 1/4" (WITHOUT LANDINGS)
2 1/2" (WITH LANDINGS)
4 1/2" TYPE CAP

TOP OF POST
1. INDICATES SIGNAL FAIL.
NOTE:
1. INDICATES SIGNAL RAIL.

KANSAS CITY STREETCAR - RIVERFRONT EXTENSION
TRAIN CONTROL
TRACK AND CABLE PLAN - RIVERFRONT

Issued for: 12-22-2020

NOT FOR CONSTRUCTION

This is a set of plans but not for construction. These plans are intended to build interest in building the project.
### Route Requests Signal

<table>
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<th>Detector Track</th>
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**Note:** Proposed auto routing will be for northbound moves. SB signal fleets to unsignaled SHT with ST/TT unsignaled. Once a train has occupied the route, it will be requested to exit the SB track and then terminate in reverse position.
NEGATIVE RETURN BONDING

1. Jumpers not required if continuous cast bed plate is used.
2. Seal openings around conduits and drain pipes with electronic cement at insulation liner.
3. See track drawings for additional backfill and track construction details.
4. The contractor shall provide bonding plans for each switch point location for approval.
5. Arrangement shown is general and is provided to show typical arrangements of track circuits, bonds and return rail configurations.
6. All 500 kcmil cables are pole lay.
7. Cross bonding shall not be combined with negative return at substations.

SIGNAL BONDING

SIGNAL AND POWER BONDING KEY

- 1-6 S Bond Strand (Track Circuit Jumper)
- 3-500 kcmil
- 2-250 kcmil
- 2-500 kcmil

INSULATED JOINT
- SIGNAL RAIL
- NEGATIVE RETURN RAIL
NOTES:

1. CONTRACTOR SHALL INSTALL PRECAST FOUNDATIONS AS REQUIRED BY FIELD PLANS.

2. INSTALL CONDUITS AS REQUIRED. REFER TO SYSTEM WIDE ELECTRICAL PLANS FOR DETAILS.

3. SIZING OF CABLE AND CONDUIT TO BE PROVIDED IN THE FINAL DESIGN.

4. CABLES SHALL BE APPROXIMATELY 6" ABOVE FINISHED GRADE.

5. FINISHED GRADE SHALL CONSIST OF 2" GRAVEL APPROXIMATELY 6" DEEP SURROUNDING CASE ON ALL SIDES.

LIFTING LUG

NOTE 3

GROUND STUD

1/8" BARE GROUND WIRE

CONCRETE FOUNDATIONS

NOTE 1

EXOTHERMALLY CONNECTED (TYP.)

SIDE VIEW A

NOTE 3

1/8" GALV. ANCHOR BOLT WITH GALV. NUTS AND WASHERS (TYP.)

TOP OF FINISHED GRADE

5'-0" MIN.

NOTE 4

5'-0" MIN.

FRONT VIEW 1

NOTE 2
NOTES:
1. SAW CUT GROOVES TO BE FREE OF DEBRIS AND WATER PRIOR TO WIRE INSTALLATION AND SEALING.
2. LOOP WIRE TO BE SINGLE CONDUCTOR #10 WIRE, HAVING A RATIO FACTOR MADE OF LAY PERT. 4X.70.013 OR APPROVED EQUAL.
3. WIRES BETWEEN LOOP AND TIMING MODULE TO BE TWISTED 6 TWIPS PER FOOT.
4. TIMING MODULE TO BE SEALED WITH SALTBOX SEALANT HAVING A RATIO FACTOR MADE OF LAY PERT. 4X.70.014 OR APPROVED EQUAL AFTER FINAL TESTING.
5. COORDINATE LOOP PLACEMENT WITH SIGNAL SIGHTING AND STOP SIGN PLACEMENT. SIGHTING FOR LOOPS TO BE DONE PRIOR TO CONCRETE FLOW INSTALL. FIELD FLOW INSTALL. FIELD FLOW INSTALL.
6. POSITION OF THE PULLBOX MAY BE ADJUSTED TO ACCOMMODATE EQUIPMENT ARRANGEMENT NEEDS FOR ANY SPECIFIC INSTALLATION.
7. AFTER SYSTEM ACCEPTANCE TESTING, THE HOUSING TO BE FILLED WITH IM. CONTINUOUS BONDABLE ELECTRICAL INSULATED RESIN 2129 OR APPROVED EQUAL.
8. ALL CABLES INSTALLED WITHIN HOUSINGS SHALL HAVE INDOOR SHIELD AT ENTRANCE AND EXIT POINTS. CONCRETE SEALS SHALL BE PERMANENT TO PREVENT CEMENT FROM BEING FILLED WITH RE-ENTERABLE RESIN.
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**Legend:**
- **CT-100:** Cable Type 100
- **CT-101:** Cable Type 101
- **CT-102:** Cable Type 102
- **CT-103:** Cable Type 103
- **CT-104:** Cable Type 104
- **CT-105:** Cable Type 105
- **CT-106:** Cable Type 106
- **CT-107:** Cable Type 107
- **CT-108:** Cable Type 108
- **CT-109:** Cable Type 109
- **CT-110:** Cable Type 110

**Notes:**
- This is a sample table from the Kansas City Streetcar - Riverfront Extension plan.
- The table includes information on cable/conduit schedules for train control.
- The plan is not for construction and is intended for interest in the project.
## Truth Control Quantities

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<th>Item</th>
<th>Unit</th>
<th>Total Quantity/Len (LF)</th>
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**Note:** Cable, conduit, units, and quantities are estimates only. Contractor shall verify actual quantities and units.

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**KANSAS CITY STREETCAR - RIVERFRONT EXTENSION**

**Train Control Cable/Conduit Schedule**

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![This set of plans is not for construction. These plans are intended to maintain interest in building the project.](RideKC Streetcar)