

CALL NO. 355

CONTRACT ID. 224440

BOURBON COUNTY

FED/STATE PROJECT NUMBER FD04 009 068X 000-001

DESCRIPTION MAIN STREET (US 68X)

WORK TYPE SIGNS-LIGHTING-SIGNALS

PRIMARY COMPLETION DATE 7/31/2023

LETTING DATE: June 23,2022

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME June 23,2022. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

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ADMINISTRATIVE DISTRICT - 07

CONTRACT ID - 224440

FD04 009 068X 000-001

COUNTY - BOURBON

PCN - 07009068X2201 FD04 009 068X 000-001

MAIN STREET (US 68X) (MP 0.243) SIGNAL IMPROVEMENTS AT THE INTERSECTION OF US 68X AND KY 1678 (MP 0.343), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS SYP NO. 07-09028.00.

GEOGRAPHIC COORDINATES LATITUDE 38:11:53.84 LONGITUDE 84:16:06.80

ADT 13,662

COMPLETION DATE(S):

COMPLETED BY 07/31/2023

APPLIES TO ENTIRE PROJECT

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's electronic bidding software. The Bidder must download the bid file located on the Bid Express website (www.bidx.com) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. When prescribed in said directives, the contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom shall be contacted through their individual Protection Notification Center. Non-compliance with these directives can result in the enforcement of penalties.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by KRS 14A.9-010 to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under KRS 14A.9-030 unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in KRS 14A.9-010, the foreign entity should identify the applicable exception. Foreign entity is defined within KRS 14A.1-070.

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at https://secure.kentucky.gov/sos/ftbr/welcome.aspx .

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially

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disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004.

April 30, 2018

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

RECIPROCAL PREFERENCE TO BE GIVEN BY PUBLIC AGENCIES TO RESIDENT BIDDERS

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the electronic bidding software. Submittal of the Affidavit should be done along the bid in Bid Express.

April 30, 2018

Special Notes Applicable to Project – General Notes & Description of Work

CAUTION

The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

LIDAR

All survey information was obtained from available KYTC Aerial LIDAR data and should be field verified as appropriate during construction and prior to incorporating the various project work items. Refer to the Special Note for Staking concerning staking operations required to control and construct the work.

ON-SITE INSPECTION

Before submitting a bid for the work, make a thorough inspection of the site and determine existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid to be evidence of this inspection having been made. The Department will not honor any claims for money or time extension resulting from site conditions.

RIGHT OF WAY LIMITS

The Department has not established the exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured and environmentally cleared by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.

CONTROL

Perform all work under the absolute control of the Department of Highways. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and his/her decision shall be final and binding upon the Contractor.

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General Notes & Description of Work Page 2 of 2

DESCRIPTION OF WORK

Except as specified herein, perform all work in accordance with the Department's Standard Specifications, Supplemental Specifications, applicable Special Notes and Special Provisions, and applicable Standard and Sepia Drawings, current editions. Furnish all materials, labor, equipment, and incidentals for the following work:

Signal Work: Work at this intersection will consist of installing signal heads with reflective backplates, signal poles and mast arms, signal controllers, and pedestrian signals. Removal of existing signal heads will be paid under the bid item "Remove Signal Equipment."

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COORDINATION OF WORK WITH OTHER CONTRACTS

Be advised, there may be an active project(s) adjacent to or within this project. The Engineer will coordinate the work of the Contractors. See Section 105.06.

1-3193 Coordination Contracts 01/02/2012

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TRAFFIC CONTROL PLAN

TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the current editions of the Manual on Uniform Traffic Control Devices (MUTCD), Standard Specifications, Supplemental Specifications, and the Standard and Sepia Drawings. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic shall be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work. Any temporary traffic control items, devices, materials, and incidentals shall remain the property of the contractor unless otherwise addressed, when no longer needed.

PROJECT PHASING & CONSTRUCTION PROCEDURES

At locations with three or more lanes, maintain one lane of traffic in each direction at all times during construction. At locations with two lanes, maintain alternating one-way traffic during construction and provide a minimum clear lane width of 9 feet. NOTE: During any lane closure, make provisions for the passage of vehicles of up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus or emergency vehicle on an official run arrives on the scene, make provisions for the passage of the school bus or emergency vehicle as quickly as possible.

Take these restrictions into account in submitting bid. The Department will not consider any claims for money or grant contract time extensions for any delays to the Contractor as a result of these restrictions.

Unless otherwise approved by the Engineer, no lane closures will be allowed during the following times:

Independence Day

Tam Saturday, July 2, 2022 – 11 pm Monday, July 4, 2022

3 pm Friday, September 2, 2022 – 8 pm Monday, September 5, 2022

Thanksgiving Holiday

Sapur Friday, November 23, 2022 – 8 pm Sunday, November 27, 2022

Christmas Holiday

Tam Saturday, November 23, 2022 – 8 pm Sunday, November 25, 2022

New Year's Day Holiday

Tam Saturday, December 23, 2022 – 8 pm Sunday, December 25, 2022

Tam Saturday, December 31, 2022 – 8 pm Sunday, January 1, 2023

Tam Saturday, April 7, 2023 – 8 pm Sunday, April 9, 2023

Easter Weekend 3 pm Friday, April 7, 2023 – 8 pm Sunday, April 9, 2023

Memorial Day Weekend 3 pm Friday, May 26, 2023 – 8 pm Monday, May 29, 2023

Independence Day 7 am Saturday, July 1, 2023 – 11 pm Tuesday, July 4, 2023

Do NOT erect lane closures during the following days and/or hours:

Normal Workday Rush Hours

Monday-Friday 7:00 AM – 9:00 AM, and 3:00 PM – 6:00 PM, daily

Unless otherwise approved by the Engineer, no lane closures shall be allowed before 9:00 AM during weekdays and no lane closures shall be allowed after dusk. The Contractor shall submit proposed days of lane closures to the Engineer at least 14 calendar days in advance for approval.

At the discretion of the Engineer, additional days and hours may be specified when lane closures will not be allowed.

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The Department will provide public notification regarding approved lane closures. The Contractor shall submit proposed lane closure days and times to the Engineer at least 14 calendar days in advance for approval. Liquidated Damages will be assessed for each hour or fraction of an hour that a lane closure is in place outside of an approved time period. See the Special Notes for Completion Dates & Liquidated Damages for details on the Liquidated Damages amount.

LANE CLOSURES

Long term lane closures shall not be allowed; therefore, lane closures will not be measured for payment. Do not leave lane closures in place during non-working hours and prohibited periods

TEMPORARY SIGNS

Temporary signposts and splices shall be compliant with NCHRP 350 or MASH. Manufacturer's documentation validating this compliance shall be provided to the Engineer prior to installation. Temporary signs, including any splices, shall be installed according to manufacturer's specifications and installation recommendations. Contrary to section 112.04.02, only long-term temporary signs (temporary signs intended to be continuously in place for more than 3 days) will be measured for payment. Short-term temporary signs (temporary signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

CHANGEABLE MESSAGE SIGNS

Provide changeable message signs at locations determined by the Engineer. The Engineer may vary the designated locations as the work progresses. The Engineer will determine the messages to be displayed. In the event of damage or mechanical/electrical failure, repair or replace the Changeable Message Sign within 8 hours. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Changeable Message Signs only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure for payment any replacements for damaged Changeable Message Signs or any changeable message signs the Engineer directs to be replaced due to poor condition or readability. Retain possession of the Changeable Message Signs upon completion of the work.

BARRICADES

The Department will not measure barricades used in lieu of barrels and cones for channelization or delineation but shall be incidental to Maintain and Control Traffic according to Section 112.04.01.

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TEMPORARY ENTRANCES

The Engineer will not require the Contractor to provide continuous access to farms, single family, duplex, or triplex residential properties during working hours; however, provide reasonable egress and ingress to each such property when actual operations are not in progress at that location. Limit the time during which a farm or residential entrance is blocked to the minimum length of time required for actual operations, not extended for the Contractor's convenience, and in no case exceeding six (6) hours. Notify all residents twenty-four hours in advance of any driveway or entrance closings and make any accommodations necessary to meet the access needs of disabled residents.

Except as allowed by the Phasing as specified above, maintain direct access to all side streets and roads, schools, churches, commercial properties, and apartments or apartment complexes of four or more units at all times. Access to fire hydrants must also be maintained at all times

TRAFFIC SIGNAL LOOPS

Install traffic signal loops according to the Special Notes for Traffic Signal Loop Replacement. Coordinate the placement of the loops with the Engineer.

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USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

The following policy is based upon current Changeable Message Signs (CMS) standards and practice from many sources, including the Federal Highway Administration (FHWA), other State Departments of Transportation, and Traffic Safety Associations. It is understood that each CMS installation or use requires individual consideration due to the specific location or purpose. However, there will be elements that are constant in nearly all applications. Accordingly, these recommended guidelines bring a level of uniformity, while still being open to regional experience and engineering judgment.

Application

The primary purpose of CMS is to advise the driver of unexpected traffic and routing situations. Examples of applications where CMS can be effective include:

- Closures (road, lane, bridge, ramp, shoulder, interstate)
- Changes in alignment or surface conditions
- Significant delays, congestion
- Construction/maintenance activities (delays, future activities)
- Detours/alternative routes
- Special events with traffic and safety implications
- Crash/incidents
- Vehicle restrictions (width, height, weight, flammable)
- Advance notice of new traffic control devices
- Real-time traffic conditions (must be kept up to date)
- Weather /driving conditions, environmental conditions, Roadway Weather Information Systems
- Emergency Situations
- Referral to Highway Advisory Radio (if available)
- Messages as approved by the County Engineer's Office

CMS should not be used for:

- Replacement of static signs (e.g. ROAD WORK AHEAD), regulatory signage (e.g. speed limits), pavement markings, standard traffic control devices, conventional warning or guide signs.
- Replacement of lighted arrow board
- Advertising (Don't advertise the event unless clarifying "action" to be taken by driver e.g. Speedway traffic next exit)
- Generic messages
- Test messages (portable signs only)
- Describe recurrent congestion (e.g. rush hour)
- Public service announcements (not traffic related)

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Messages

Basic principles that are important to providing proper messages and ensuring the proper operation of a CMS are:

- Visible for at least ½ mile under ideal daytime and nighttime conditions
- Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- No more than two message panels should be used (three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- Do not use the sign for two unrelated messages
- Should not scroll text horizontally or vertically
- Should not contain both the words left and right
- Use standardized abbreviations and messages
- Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- Avoid use of speed limits
- Use words (not numbers) for dates

Placement

Placement of the CMS is important to ensure that the sign is visible to the driver and provides ample time to take any necessary action. Some of the following principles may only be applicable to controlled access roadways. The basic principles of placement for a CMS are:

- When 2 signs are needed, place on same side of roadway and at least 1,000 feet apart
- Place behind semi-rigid/rigid protection (guardrail, barrier) or outside of the clear zone
- Place 1,000 feet in advance of work zone; at least one mile ahead of decision point
- Normally place on right side of roadway; but should be placed closest to the affected lane so that either side is acceptable
- Signs should not be dual mounted (one on each side of roadway facing same direction)
- Point trailer hitch downstream
- Secure to immovable object to prevent theft (if necessary)
- Do not place in sags or just beyond crest
- Check for reflection of sun to prevent the blinding of motorist
- Should be turned ~3 degrees outward from perpendicular to the edge of pavement
- Bottom of sign should be 7 feet above the elevation of edge of roadway
- Should be removed when not in use

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Standard Abbreviations

The following is a list of standard abbreviations to be used on CMS:

<u>Word</u>	<u>Abbrev</u>	<u>Example</u>
Access	ACCS	ACCIDENT AHEAD/ USE ACCS RD NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/ USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/ DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/ MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/ USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/ USE ALT RTE
Cardinal Directions	N, S, E, W	N 175 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/ MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/ USE 1275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3 MI
Construction	CONST	CONST WORK AHEAD/ EXPECT DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND 164 CLOSED/ DETOUR EXIT 20
Emergency	EMER	EMER VEH AHEAD/ PREPARE TO STOP
Entrance, Enter	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/ DETOUR EXIT 10
Freeway	FRWY, FWY	GN SYNDR FWY CLOSED/ DETOUR EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ ALL TRAF EXIT 25
Highway	HWY	ACCIDENT ON AA HWY/ EXPECT DELAYS
Hour	HR	ACCIDENT ON AA HWY/ 2 HR DELAY
Information	INFO	TRAF INFO TUNE TO 1240 AM
Interstate	I	E-BND I64 CLOSED/ DETOUR EXIT 20
Lane	LN	LN CLOSED MERGE LEFT
Left	LFT	LANE CLOSED MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/ SLOW
Major	MAJ	MAJ DELAYS 175/ USE ALT RTE
Mile	MI	ACCIDENT 3 MI AHEAD/ USE ALT RTE
Minor	MNR	ACCIDENT 3 MI MNR DELAY
Minutes	MIN	ACCIDENT 3 MI/ 30 MIN DELAY
Northbound	N-BND	N-BND 175 CLOSED/ DETOUR EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/ USE 1275 NEXT RIGHT
Parking	PKING	EVENT PKING NEXT RGT
Parkway	PKWY	CUM PKWAY TRAF/ DETOUR EXIT 60
Prepare	PREP	ACCIDENT 3 MI/ PREP TO STOP
Right	RGT	EVENT PKING NEXT RGT
Road	RD	HAZMAT IN RD/ ALL TRAF EXIT 25
Roadwork	RDWK	RDWK NEXT 4 MI/ POSSIBLE DELAYS
Route	RTE	MAJ DELAYS 175/ USE ALT RTE
Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
Slippery	SLIP	SLIP COND POSSIBLE/ SLOW SPD
Southbound	S-BND	S-BND 175 CLOSED/ DETOUR EXIT 50
Speed	SPD	SLIP COND POSSIBLE/ SLOW SPD

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Standard Abbreviations (cont)

Word	<u>Abbrev</u>	<u>Example</u>
Street	ST	MAIN ST CLOSED/ USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/ DETOUR EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/ USE 1275 NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/ DETOUR EXIT 50
Work	WRK	CONST WRK 2MI/ POSSIBLE DELAYS

Certain abbreviations are prone to inviting confusion because another word is abbreviated or could be abbreviated in the same way. DO NO USE THESE ABBREVIATIONS:

<u>Abbrev</u>	Intended Word	Word Erroneously Given
ACC	Accident	Access (Road)
CLRS	Clears	Colors
DLY	Delay	Daily
FDR	Feeder	Federal
L	Left	Lane (merge)
LOC	Local	Location
LT	Light (traffic)	Left
PARK	Parking	Park
POLL	Pollution (index)	Poll
RED	Reduce	Red
STAD	Stadium	Standard
TEMP	Temporary	Temperature
WRNG	Warning	Wrong

Typical Messages

The following is a list of typical messages used on CMS. The list consists of the reason or problem that you want the driver to be aware of and the action that you want the driver to take.

Reason/Problem	<u>Action</u>
ACCIDENT	ALL TRAFFIC EXIT RT
ACCIDENT/XX MILES	AVOID DELAY USE XX
XX ROAD CLOSED	CONSIDER ALT ROUTE
XX EXIT CLOSED	DETOUR
BRIDGE CLOSED	DETOUR XX MILES
BRIDGE/(SLIPPERY, ICE, ETC.)	DO NOT PASS
CENTER/LANE/CLOSED	EXPECT DELAYS
DELAY(S), MAJOR/DELAYS	FOLLOW ALT ROUTE
DEBRIS AHEAD	KEEP LEFT
DENSE FOG	KEEP RIGHT
DISABLED/VEHICLE	MERGE XX MILES
EMER/VEHICLES/ONLY	MERGE LEFT
EVENT PARKING	MERGE RIGHT
EXIT XX CLOSED	ONE-WAY TRAFFIC
FLAGGER XX MILES	PASS TO LEFT

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Typical Messages (cont)

Reason/Problem
FOG XX MILES
FREEWAY CLOSED
FRESH OIL
HAZMAT SPILL

ICE

INCIDENT AHEAD

LANES (NARROW, SHIFT, MERGE, ETC.)

LEFT LANE CLOSED LEFT LANE NARROWS LEFT 2 LANES CLOSED LEFT SHOULDER CLOSED

LOOSE GRAVEL

MEDIAN WORK XX MILES

MOVING WORK ZONE, WORKERS IN ROADWAY

NEXT EXIT CLOSED NO OVERSIZED LOADS

NO PASSING
NO SHOULDER
ONE LANE BRIDGE
PEOPLE CROSSING
RAMP CLOSED

RAMP (SLIPPERY, ICE, ETC.)
RIGHT LANE CLOSED
RIGHT LANE NARROWS
RIGHT SHOULDER CLOSED

ROAD CLOSED

ROAD CLOSED XX MILES ROAD (SLIPPERY, ICE, ETC.)

ROAD WORK

ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)

ROAD WORK XX MILES

SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)

NEW SIGNAL XX MILES

SLOW 1 (OR 2) - WAY TRAFFIC

SOFT SHOULDER

STALLED VEHICLES AHEAD

TRAFFIC BACKUP
TRAFFIC SLOWS
TRUCK CROSSING
TRUCKS ENTERING

TOW TRUCK AHEAD

UNEVEN LANES
WATER ON ROAD

WET PAINT

WORK ZONE XX MILES WORKERS AHEAD

<u>Action</u>

PASS TO RIGHT PREPARE TO STOP REDUCE SPEED

SLOW

SLOW DOWN STAY IN LANE STOP AHEAD STOP XX MILES

TUNE RADIO 1610 AM

USE NN ROAD
USE CENTER LANE
USE DETOUR ROUTE
USE LEFT TURN LANE
USE NEXT EXIT
USE RIGHT LANE

WATCH FOR FLAGGER

SPECIAL NOTE FOR TRAFFIC SIGNAL LOOP DETECTORS

- 1.0 **DESCRIPTION.** Be advised that there are existing traffic signal loop detectors within the construction limits of this project. Except as specified herein, perform traffic signal loop replacement in accordance with the Department's Standard/Supplemental Specifications, Special Provisions, Special Notes, and Standard/Sepia Drawings, current editions and as directed by the Engineer. Article references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for replacement of traffic signal loop installation(s) and all other work specified as part of this contract.
 - 1.1 Pre-bid Requirements. Conform to Subsection 723.03.17
- **2.0 MATERIALS.** Except as specified herein, furnish materials in accordance with Subsection 732.02 and Section 835. Provide for materials to be sampled and tested in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing, unless otherwise specified in this Special Note.
 - 2.1 Maintain and Control Traffic. See Traffic Control Plan.
 - **2.2** Sand. Furnish natural sand meeting the requirements of Subsection 804.04.01.
 - **2.3 Seeding.** Furnish Seed Mix Type I.
- **2.4** Loop Saw Slot and Fill. Furnish loop sealant, backer rod, and non-shrink grout according to the Saw Slot Detail.
- **2.5 Junction Boxes.** Furnish junction box type B, #57 aggregate, and geotextile filter type IV according to junction box detail.
- **2.6** Cable No. 14/1 Pair (Lead-in). Furnish cable that is specified in Section 835. Cable shall be ran splice free. This shall include splice kits to connect to the loop wire.
- **2.7 Conduit.** Furnish and install appropriate conduit from transitions to the roadway, junction boxes and poles. See details below.
- **3.0 CONSTRUCTION.** Except as specified herein, install and test Traffic Signal Loop Detectors in accordance with Section 723 and the drawings.
 - **3.1 Testing.** Conform to Subsection 723.03.17 (A)
 - **3.2 Coordination.** Conform to Subsection 723.03.17 (B)
 - **3.3 Connection.** Conform to Subsection 723.03.17 (C)
 - 3.4 Maintain and Control Traffic. See Traffic Control Plan.
 - **3.5** Milling. Conform to Subsection 723.03.17 (F)
 - **3.6** Loop Saw Slot and Fill. Conform to Subsection 723.03.13 (A).

Traffic Signal Loop Detectors Page 2 of 9

- **3.7 Backfilling and Disturbed Areas.** Conform to Subsection 723.03.11.
- **3.8 Removal.** Conform to Subsection 723.03.16.
- **3.9** Property/Roadway Damage. Conform to Subsection 723.03.17 (J).
- **3.10 Right-of-Way Limits.** Conform to Subsection 723.03.17 (K).
- **3.11** Utility Clearance. Conform to Subsection 716.03.01.
- **3.12 Control.** Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to permit other contractors, state forces, public utility companies, and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with each other's work will be reduced to a minimum. The Contractor agrees to make no claims against the Department for additional compensation due to delays or other conditions created by the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to ensure the completion of the work in general harmony and in a satisfactory manner, and the Engineer's decision shall be final and binding upon the Contractor.
 - **3.13 Bore and Jack**. Conform to Subsection 723.03.06 (I).
 - **3.14 Open Cut Roadway.** Conform to Subsection 723.03.06 (I).
- **4.0 MEASUREMENT.** See Subsection 723.04 for bid item notes. Additional bid items include the following:
- **4.1 Loop Test.** The Department will measure the quantity as each individual unit loop tested. The Department will not measure disconnection, reconnection, traffic control, re-splicing per specifications, before and after testing per note above, and any associated hardware for payment and will consider them incidental to this item of work.
- **4.2 Remove Signal Equipment.** The department will measure the quantity by each. The department will not measure backfilling and the disposal or transportation of equipment and materials associated with any structural or electrical component of the signal system including, but not limited to pole bases, poles, junction boxes, cabinets, and wood poles for payment and will consider them incidental to this item of work.
- **5.0 PAYMENT**. The Department will make payment for the completed and accepted quantities of listed items according to Subsection 723.05 in addition to the following:

CodePay ItemPay UnitConduit 1"4792Linear FootPVC Conduit - 1 1/4 inch - sch 8024900ECLinear Foot

BOURBON COUNTY FD04 009 068X 000-001

Traffic Signal Loop Detectors Page 3 of 9

PVC Conduit – 2 inch – sch 80	24901EC	Linear Foot
Conduit 2"	4795	Linear Foot
Electrical Junction Box type B	4811	Each
Loop Test	24963ED	Each
Trenching and Backfilling	4820	Linear Foot
Loop Wire	4830	Linear Foot
Cable-No. 14/1 Pair	4850	Linear Foot ¹
Loop Saw Slot and Fill	4895	Linear Foot ¹
Bore and Jack Conduit	21543EN	Linear Foot ³
Open Cut Roadway	4821	Linear Foot ³
Remove Signal Equipment	24955ED	each

The Department will consider payment as full compensation for all work required under these notes and the Standard Specifications.

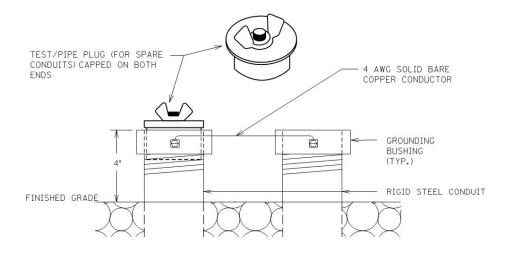
Contrary to section 723:

SUBSECTION: 03.13 Loop Installation.

REVISION: Replace first sentence note with the following:

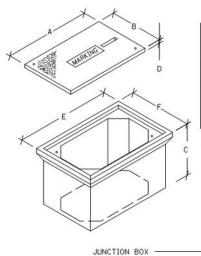
twist unshielded loop wire (imsa 51-7) with 3 to 5 turns from the start of homerun to the inside conduit, junction box, cabinet, or pole. Twist unshielded loop wires (imsa 51-7) with 3 to 5 turns per foot from the start of the homerun to the junction box, cabinet, or pole. Slot can be widen to .5" to .625" to help with the installation of the twisted wire.

Traffic Signal Loop Detectors Page 4 of 9



TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL

Traffic Signal Loop Detectors Page 5 of 9



	JUNC	TION BOX [DIMENSION:	S (NOMINAL)		
	А	В	С	D	Ε	F
TYPE A	23*	14"	27'	2"	25"	15'
TYPE B	18"	111*	12"	13/4" •	20"	13*
TYPE C	36"	24"	30"	3.	38"	26"

* MINIMUM
NOTE: STACKABLE BOXES ARE PERMITTED

BEFORE THE INSTALLATION OF THE "57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL GEOTEXTILE FILTER FABRIC TYPE IV IN THE HOLE. THE FABRIC SHALL EXTEND TO JUST BELOW THE LIP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY LOCATIONS WHERE CONDUITS ENTER THE BOX, THE FABRIC SHALL BE "X CUT' ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH THE FABRIC. THE FABRIC SHALL BE INCIDENTAL TO BID ITEMS 4811, 2039INS835, OR 20392NS835.

BUSHINGS

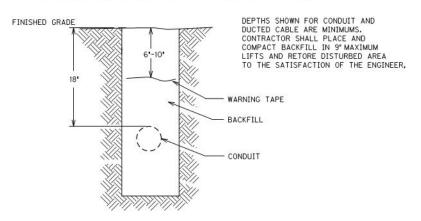
CONDUCTOR INSTALLATIONSCONDUIT SHALL BE EXPOSED
4' FROM BOTTOM OF BOX

EARTH

GRADATION SIZE
NO. 57 AGGREGATE

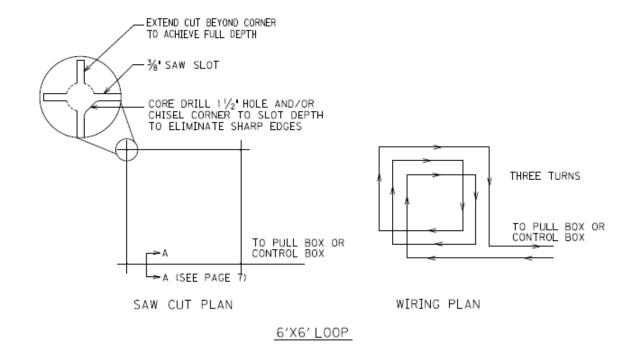
FIBER FABRIC TYPE IV

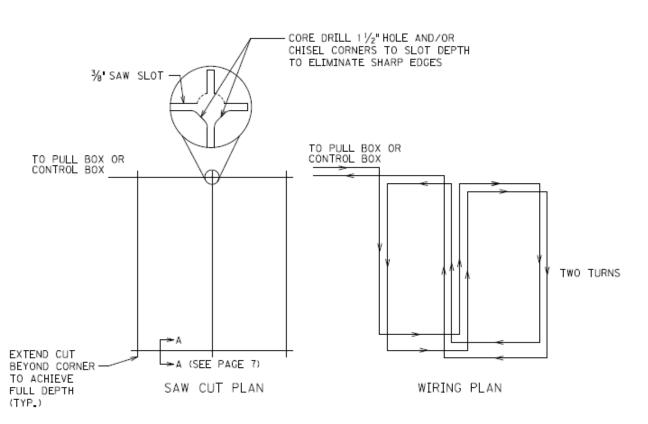
JUNCTION BOX INSTALLATION FOR
CONVENTIONAL LIGHTING OR TRAFFIC SIGNALS



CONDUIT AND WARNING TAPE TRENCH

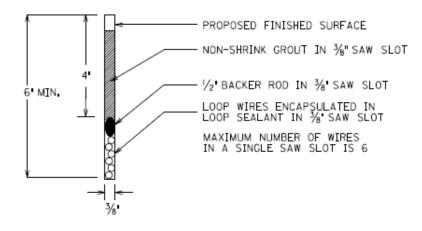
Traffic Signal Loop Detectors Page 6 of 9



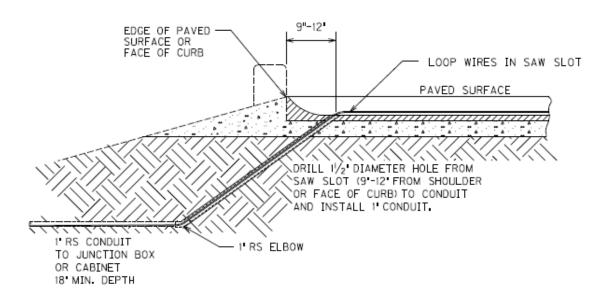


6'X30' QUADRAPOLE LOOP

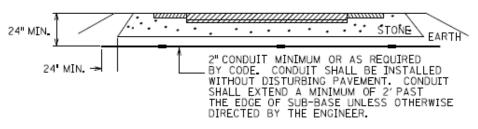
Traffic Signal Loop Detectors Page 7 of 9



SECTION A-A (SAW SLOT DETAIL)

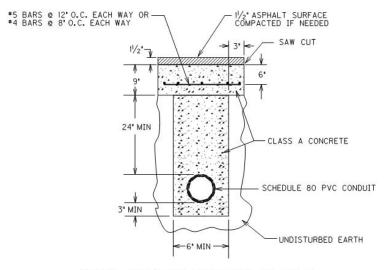


SAW SLOT EDGE OF PAVEMENT TRANSITION

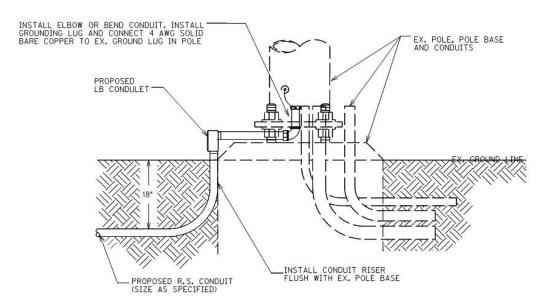


CONDUIT UNDER EXISTING PAVEMENT DETAIL

Traffic Signal Loop Detectors Page 8 of 9

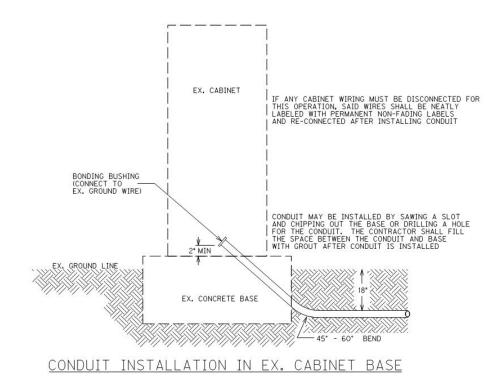


OPEN CUT PAVEMENT DETAIL



CONDUIT INSTALLATION IN EX. POLE BASE

Traffic Signal Loop Detectors Page 9 of 9



Update: 4-5-2022

BOURBON COUNTY FD0<u>4 009 068X 000-001</u>

The state of the s

KENTUCKY TRANSPORTATION CABINET Department of Highways

DIVISION OF RIGHT OF WAY & UTILITIES

RIGHT OF WAY CERTIFICATION

TC 62-226 Rev. 01/2016

Contract ID: 224440

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WAY & UTILITIES Page 1 of 1

	Original		Re-C	Certification		RIGHT OF WAY CERTIFICATION			
	ITEM	#			COUNTY	PROJE	DJECT # (STATE) PROJECT # (FEDERAL		
7-9028.00 Bourbon			FD04 009 06	58X 000-001	N/A				
PRO.	PROJECT DESCRIPTION								
Safe	Safety improvements on US 68X @ KY-1678 at Bourbon County Schools								
	· ·			Way Req		,			
Cons	truction wil	l be wit	hin the	limits of th	e existing right of way.	The right of way v	vas acquired in accorda	ance to FHWA regulations	
						sitions Policy Act	of 1970, as amended. N	No additional right of way or	
reloc	ation assist				of Way Required and	Cleared)			
All ne					ol of access rights when	•	peen acquired including	g legal and physical	
			-	_	=			e may be some improvements	
				-	-			physical possession and the	
								n paid or deposited with the	
								illable to displaced persons	
adeq					nce with the provisions		NA directive.		
<u> </u>		-			of Way Required with				
						_	•	he proper execution of the	
		-		-		•		n has not been obtained, but sphysical possession and right	
_				-	•	•	•	e court for most parcels. Just	
		_		-	be paid or deposited wit	-	•		
					of Way Required with	•			
The a							nplete and/or some pa	arcels still have occupants. All	
	-	_		-	nt housing made availab			· · · · · · · · · · · · · · · · · · ·	
reque	esting author	orizatio	n to ad	vertise this	project for bids and to p	roceed with bid le	etting even though the	necessary right of way will not	
be fu	lly acquired	l, and/o	r some	occupants	will not be relocated, ar	d/or the just com	pensation will not be p	paid or deposited with the	
	-				-	-		35.309(c)(3) and 49 CFR	
		=		-	all acquisitions, relocation		ents after bid letting a	nd prior to	
	Number of Par				rce account construction		IDATED DATE OF BOSSESSIO	NI WITH EVELANIATION	
	er of Parcels 1			0	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION			
Signed		ilat ilave	Deen Ac	0					
	mnation			0					
Signed				0					
Notes	c/ Comments	s (Use Ad	dditiona	Il Sheet if ne	cessary)				
LPA RW Project Manager Right of Way Supervisor						pervisor			
Printed Name			Printed Name	(Cecil Smith				
Sig	gnature	nature				Signature	Cecil D. Smith	Digitally signed by Cecil D. Smith Date: 2022.03.21 08:56:18 -04'00'	
Date					Date	3	3/21/2022		
Right of Way Director			or		FHWA				
Print	ed Name				2022.03.22	Printed Name			
Sig	gnature				23:05:36	Signature			
	Date	Mule Nale -04'00'				Date			

Contract ID: 224440 Page 30 of 57

UTILITIES AND RAIL CERTIFICATION NOTE

Bourbon County
FD04 009 068X 000-001
Safety Improvements on US 68X at KY 1678 School Safety Project
Item No. 7-9028.00

GENERAL PROJECT NOTES ON UTILITIES

For all projects over 2000 linear feet, which are defined as a "Large Project" in KRS 367.4903(18), the awarded contractor shall initially mark the first 2000 linear feet minimally of proposed excavation or construction boundaries of the project to be worked using the procedure set forth in KRS 367.4909(9)(k). This temporary field locating of the project excavation boundary shall take place prior to submitting an excavation location request to the underground utility protection Kentucky Contact Center. For large projects, the awarded contractor shall work with the impacted utilities to determine when additional white lining of the remainder of the project site will take place. This provision shall not alter or relieve the awarded contractor from complying with requirements of KRS 367.4905 to 367.4917 in their entirety.

NOTE: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his/her activities. The contractor will coordinate his/her activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs. The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating.

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

BOURBON COUNTY FD04 009 068X 000-001 Contract ID: 224440 Page 31 of 57

UTILITIES AND RAIL CERTIFICATION NOTE

Bourbon County
FD04 009 068X 000-001
Safety Improvements on US 68X at KY 1678 School Safety Project
Item No. 7-9028.00

NOTE: DO NOT DISTURB THE FOLLOWING UTILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS

There are no known utility relocations within the project limits. If an unknown utility is encountered, the contractor will be responsible for arranging an on-site meeting with the utility owner/representative(s) and the Engineer to discuss potential impacts and solutions to either avoid the utility or relocate the utility. Depending on the solution selected, the Engineer will determine whether or not additional contract time is appropriate.

The Contractor is fully responsible for protection of all utilities listed above

THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS
AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

None

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE COMPANY OR THE COMPANY'S SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

None

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD CONTRACTOR AS INCLUDED IN THIS CONTRACT

None

RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

No Rail Involvement □ Rail Involved □ Rail Adjacent

Contract ID: 224440 Page 32 of 57

UTILITIES AND RAIL CERTIFICATION NOTE

Bourbon County
FD04 009 068X 000-001
Safety Improvements on US 68X at KY 1678 School Safety Project
Item No. 7-9028.00

AREA UTILITIES CONTACT LIST

Utility Company/Agency		Contact Name	Contact Information
1.	AT&T KY	Frank Ambrose	502 867 8240
2.	Kentucky Utilities	Caroline Justice	502 627 3708
3.	Columbia Gas of KY	David Lemmons	859 288 0249
4.	City of Paris	Mike Asalon	859 987 2110
5.	Kentucky Wired	Roger Castle	859 229 5403
6.			
7			

7.

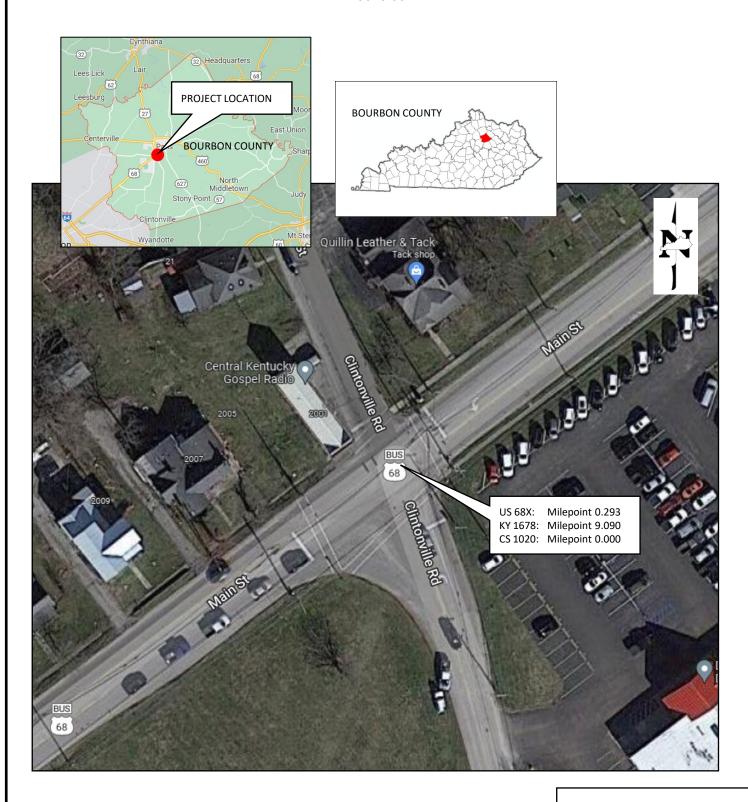
NOTE: The Utilities Contact List is provided as informational only, and may not be a complete list of all Utility Companies with facilities in the project area.

COUNTY OF ITEM NO.

| BOURBON | 7-9028.00

COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS BOURBON COUNTY

US 68X AT KY 1678 7-9028.00



BOURBON COUNTY FD04 009 068X 000-001

Contract ID: 224440 Page 34 of 57 AND THE 7-9028.00

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT IJON, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS SECTION TO6, T23, AND 112 FOR WEASUREMENT AND OTHER DETAILS. SECTION SOS FOR SPIRAL REINFORCEMENT SPLICING.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS, SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP MATERIALS FOR INSTALL ITEMS AT KYTS DIVISION OF EQUIPMENT WARFHOUSE USTS9 WILKINSON BOULEVARD, FRAMKFORT, KT 40622. THE FOLLOWED FOR MATERIAL RELEASE. FALLOWED FOR MATERIAL RELEASE. FALLOWED FOR MATERIAL RELEASE. FALLOWED FOR THE PROPERTY OF REFUSAL TO DISTRIBUTE MATERIALS UPON ARRIVAL.

CONDUIT 1 INCH
CONDUIT 1 LV4 INCH
CONDUIT 2 INCH
TERNCHING AND BACKFILLING
LOOP WIRE

CABLE-NO. 14/5C

4792 4795 4795 4820 4830 4844 4850 24955ad 20093NS835 20168NS835 20168NS835

15 120 365 230 230 1,425 500 590

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

TEM DESCRIPTION

TOTAL UNITS

CABLE-NO. 147/PAIR
LODP SAM SLOT PAM FILL
LODP SAM SLOT PAM FILL
NISTALL PEESTRAN HEAD LED
INSTALL SIGNAL-3 SECTION LED
INSTALL CORDUNITING UNIT
INSTALL CORDUNITING UNIT
ELECTRICAL UNITION BOX TYPE B
BORE AND JACK CONDUIT

TRAFFIC SIGNAL POLE BASE
INSTALL SIGNAL PEDESTAL
INSTALL SIGNAL CONTROLLER-TY ATC

INSTALL PEDESTRJAN DETECTOR MAST ARM POLE

4811 21543EN 21743NN

300

ADD SENTENCE TO SECTION 835,17; ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 723

INSTALL SIGNAL CONTROLLER TYPE ATC. THE DEPARTMENT WILL MEASURE
THE OUANTITY AS EACH INDIVIDUAL UNI TRISTALLED. THE DEPARTMENT WILL NOT
THE OUANTITY AS EACH INDIVIDUAL UNI TRISTALLED. THE DEPARTMENT WILL NOT
MEASURE THE CONCEPTE BASE, MOUNTING THE CABINT, CONNECTING THE SIGNAL
AND DETECTORS, EXCAPATION, BACKFILLIN, EXECONDARY PRIMARY SERVICE FOR
PAYMENT AND WILL CONSIDER THEM INCIDENTAL INSPECTION FEES, AND
REQUIRED BUILDING FEES INVOLVIOU UTILITY SECONDARY PRIMARY SERVICE FOR
PAYMENT WILL ASS NOT MEASURE CONFECTING THE INDUCTION LOOP
AMPLIFIERS, PEDESTRIAN 1504, ATORS, LOAD SWITCHES, WODEL, 400 WIDEN
FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.
THE DEPARTMENT WILL ASSON THE ASSURE FERNISHING AND INSTALLING
ELECTRICAL SERVICE CONDUCTORS, CONDULTS, ANCHORS, METER BASE, FUSED
CHOUNT, FUSES, GROUND FIOS, AND CROUND MIRES FOR PAYMENT
AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

ITEM NO.

COUNTY OF

BOURBON

SUBSECTION: 03.02 POLES AND BASES INSTALLATION. B) REVISION: REPLACE ENTIRE TABLE WITH THE FOLLOWING:

	TIES OR SPIRAL	SPACING	OR PITCH (IN.)	<u> </u>			
	DRILLED SHAFT DATA TIES 02 F1H (FEET) TIES < 2:1 GROUND SLOPE Zir GROUND SLOPE VERTICAL BARS BAR		SIZE	44444444444444			
			TOTAL	######################################			
			SIZE	บเบเบเบเบเบเบเบเบเบเบเบเบ			
			ROCK				
-	EET)	2:1 GR0	SOIL	00000000000000000000000000000000000000			
DRILLED SHAFT DATA	DEPTH (FEET)		DEPTH (F	DEPTH (UND SLOPE	ROCK	๛๛๛๛๛๛๛๛๛๛ ๛๛๛๛๛๛๛๛๛๛๛ ๛
DRILLED			SOIL	ര∽യയു <u>്റ−റുമന്∽ജഗഗ്ഗ</u> ര വസ് വസ്			
VICE		DJAMETER (IN.)		MANAGAMANANANAA 4			
MAXIMUM SERVICE FORCES	MAX SERVICE	MAX SERVICE MOMENT (FT-KJPS)					

03.13 LOOP INSTALLATION. REPLACE INSTALLATION. REPLACE FIRST SENTENCE NOTE WITH THE FOLLOWING: THINST DESCRIPCED LOOP WHESE GIAGAS, 15T WITH STATE OF THE HOMERIAN TO THE LOWERIAN TO THE LOWERIAN TO THE LOWER WIDEN TO 172" to 5/8" TO HELP WITH THE INSTALLATION OF THE TWISTED WIRE.

04.22 REMOVE STRANDE STORAL EQUIPMENT, CONCENTRATION ONLY)
REPLACE IN PARAGRAPH WITH THE FOLLOWING ACCOUNT OF THE DEPARTMENT WILL MEASURE THE CUMPINGTY OF EACH. THE DEPARTMENT WILL MEASURE THE COUNTY OF EXECUTED THAT JOHN OF EXCIPLING AND THE DISPOSAL OF TRANSPORTATION OF EXUIPMENT NOT MEASURE ALCOFFLING AND THE DISPOSAL OF TRANSPORTATION OF EXCIPLING AND THE DISPOSAL OF TRANSPORTATION OF EXCIPLING AND THE TRANSPORTATION OF TRANSPORTATION O SUBSECTION: REVISION:

MATERIAL NOTES THAT ARE CONTRARY TO SECTION 835

SUBSECTION: REVISION:

REPLACE FIRST SENTENCE WITH THE FOLLOWING IN 834,33; PROVIDE DEFECTABLE TYPE TAPE THAT IS 6 INCHES WIDE AND 7.0 MILS NOMINITYTHICK.

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS BOURBON COUNTY OF OJECT FD04 009 068% 000-001

TRAFFIC SIGNAL ESTIMATE OF OUANTITIES MEASUREMENT, CONST, AND MISC NOTES

6-29-2021

FILE NAME: C:\PWWORK\ADAM.PROCTOR\D1899079\ALL SIGNAL STANDARDS.DGN

Ower InRoads v8.II.9.397 E-SHEET NAME: T001005U DATE PLOTTED: Morch 8, 2022

BOURBON COUNTY FD04 009 068X 000-001 Contract ID: 224440 DETAILS 3-OR 6-FROM BOTTOM FINISHED GRADE 7-9028.00 ITEM NO. TRAFFIC SIGNAL AND ROADWAY LIGHTING JUNCTION BOX AND CONDUIT (COUNTY OF BOURBON JUNCTION BOX INSTALLATION FOR HIGHMAST LIGHTING Þ .92 5 JUNCTION BOX INSTALLATION FOR 50. 52 JUNCTION BOX DIMENSIONS 27. ₽ 8 MINIMUM
NOTE: STACKABLE BOXES ARE PERMITTED
JUNCTION BOX 24. 53 36 GRADATION SIZE — NO. 57 AGGREGATE GRADATION SIZE — NO. 57 AGGREGATE TYPE A TYPE B TYPE C 9- OR 12- FROM FIBER FABRIC TYPE IV BOTTOM JUNCTION BOX FIBER FABRIC TYPE IV BUSHINGS 3- OR 6- FROM BOTTOM CONCRETE CABLE MARKERS || || || JUNCTION BOX INSTALLATION FOR CKT "I CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL GROUNDING DETAIL DEPTHS SHOWN FOR CONDUIT AND OCICE CABLE ARE MINIMUMAS. CONTRACTOR SHALL PLACE AND COMPACT BACKELL IN 9 WAXIMUM LIFTS AND RETORE DISTURBED AREA TO THE SAN RETORE DISTURBED THE ENGINEER, CONDUCTOR INSTALLATIONS
CONDUIT SHALL BE EXPOSED
FROM BOTTOM OF BOX AND
SSHALL BE AT LEAST B INCHES
FROM THE BOTTOM OF THE
JUNCTION BOX LID. GRADATION SIZE --NO. 57 AGGREGATE JUNCTION BOX 4 AWG SOLID BARE COPPER CONDUCTOR CONDUITS) AND COVER PLATE WITH WEATHER RESISTANT GASKET DUCTED CABLE NARNING TAPE CABLE, TRENCH BACKFILL 9 CONDUIT, DÚCTÉD AND WARNING TAPE B SPARE ABOVE GROUND PLUG(FOR TEST/PIPE PLUC (FOR SPARE CONDUITS). CAPPED ON BOTH ENDS TEST/PIPE FOUR (4) SCREWS MINIMUM FINISHED GRADE 3/13/2017 Power InRoads v8.11,9.397 E-SHEET NAME: T00300JB DATE PLOTTED: Morch 8, SO22 FILE NAME: C:/PWWORK/ADAM.PROCTOR/D1899079/ALL SIGNAL STANDARDS.DGN

Page 35 of 57

BOURBON COUNTY FD04 009 068X 000-001 Contract ID: 224440 -(6) =6 VERTICAL REINFORCING BARS EQUALLY SPACED - 3 TIE OR SPIRAL BARS TO BE 12" ON CENTER STUB HEIGHT MEASUREMENT NOTE: EDESTAL BASE DOOR SHALL HAVE

A 4 BY 6 SHOCK HAZADO MANING, STICKER

IF SHALLER TRANSFORMER BASE IS INSTALLED

USG A 2 PT 8 TNSTEAD, INSTALL FROM THE

TOP OF THE DOOR. THE STICKER SHALL BE

WITH JOO? THEO DOOR. THE STICKER SHALL BE

WITH JOO? THEO MASS. WITH UV WHITH

NOT THE DOOR. THE STICKER SHALL BE

WITH JOO! THEO ROOR. THE STICKER SHALL BE

INCIDENTAL TO THE PROJECT.

FINAL BASE FRESSURE SENSITIVE ADMESIVE

FINAL BE

INCIDENTAL TO THE PROJECT.

FOLLOWING JINE FOR THE TANNSFORMER BASE:

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FOLLOWING JINE FOR THE THE FOR THE THE FOLLOWING JINE FOR THE THE STILL SHALL BE

FOLLOWING JINE FOR ADDITIONAL PPE REQUIRED

SEE NEPA TOE FOR ADDITIONAL PPE REQUIRED PEDESTRIAN SIGNAL COUNTDOWN DETAIL BENDING DETAIL FOR *3 TIE BARS GROUND LINE - 3- CLR 7-9028.00 ITEM NO. STUB OF TRANSFORMER BASE USE 15' DIAMETER BASE IF KYTC SUPPLIES A SMALLER PEDESTAL TRANSFORMER BASE THE ANCHOR BOLTS AND CONDUITS SHALL NOT BE PROJECTED MORE 4 INCHES ABOVE A GROUND LINE BETWEEN THE STRADDLING WHEELS OF A VEHICLE. I.-3 COUNTY OF BOUBON PEDESTAL POLE BASE DETAJL -GROUND ROD FOR PEDESTAL POLE 4" MAX. -GROUNDING CONDUCTOR - I' CHAWFER CONCRETE 9 SUPPORT SPECIAL NOTE FOR THE TRANSFORMER BASE: FUSED CONNECTOR KITS SHALL BE INSTALLED FOR ALL IZO VOL'I WIRING IN TRANSFORMER BASES. THEN WILL OWLY BE NEEDED FOR PEDESTRAIN HEADS AND SIGNALS HEADS. PEDESTRAIN DETECTORS DO NOT REQUIRE FLUSED CONNECTOR XITS. CONTRACTOR CAN USE ONE XIT FOR A COMMON NEUTRAL FOR ALL DEVICESIN THE TRANSFORMER BASE. THERE SHALL BEA METAL LUG INSTALLED IN THE NEUTRAL WIRE KIT INSTEAD OF A FUSE BASE. -15 or 2'-- ½- x 4-STAINLESS STEEL
LAG BOLTS (2 REQUIRED)
& STAINLESS STEEL
BANDING TAPE
3-4" x . 03"
(2 REQUIRED) BREAKAWAY 1/2" A" STAINLESS STEEL
LAG BOLTS (2 REQUIRED)
8 STAINLESS STEEL
8 STAINLESS STEEL
3"4" X . QS 3" CLR
(2 REQUIRED) THE WOOD POLE SHALL BE INSTALLED SO THAT EACH BUTTON IS NO MORE THAN 10-FROM THE PAVED SIDEWALK OR SHOULDER. NT. CONNECTOR SCREW 3- CLR TYPE FS BOX & INSTALL TWO
PED DETECTOR STAINLESS STEEL
WITH 1/2 GALV. SCREWS FOR
PLUG FOR BOX THE ATTACHMENT
OF THE FS BOX. WOOD POLE DETAIL FOR PED DETECTORS AND PED SIGNALS STEEL MSTALL 10° SECTIONS OF NATION STEEL CONDUIT FOR SIGN MOUNTING, USE FOUR *14 X 3° STAINLESS STEE ROUND HEAD WOOD SCREWS THROUGH CONDUITS FOR MOUNTING SIGN TO POLE. "Y" TYPE RUBBER INSULATOR SIDEWALK/SHOULDER RECEPTACLE HOUSING 1/2" RIGID STEEL CONDUIT SIGNS RIO-30 ARROWS SHALL POINT IN PROPER DIRECTION (CENTERED) - Bracket Shall Be Positioned in order to avoid damage From Vehicles LOAD SIDE ASSEMBLY BREAKANAY POINT LINE SIDE ASSEMBLY TYPE HEB-JW-RYC CONNECTOR SHOWN "9 X 1/2" STAINLESS STEEL PAN HEAD OR ROUND HEAD WOOD SCREWS SHALL BE USED TO SECURE TYPE FS BOX TO POLE. A MINIMAM OF 2 SCREWS PER BOX, INSTALLED DIACOMALIT, SMALL BE USED. 1/4" RIGID STEEL CONDUIT HEB-JW-RYC CONNECTOR BREAKAWAY FUSE CONNECTOR KIT WOOD POLE ĕ.ĕ 6 AMPIGED VAC) CARTRIDGE FUSE **-**[O] Į. FUSE HOLDER DETAILS OF TYPE FINAL GRADE 48 LOAD TERMINAL (SCREW TYPE) INSTALL DOUBLE HOLE-CONDUIT STRAP WITH 1/4 × 2½-5 CALV. LAG BOLTS. MAXIMUM SPACING SHALL NOT EXCEED 4. THE PEDESTAL SHALL BE INSTALLED SO THAT EACH BUTTON IS NO MORE THAN 10*FROM THE PAVED SIDEWALK OR SHOULDER. -LOAD CABLE THERE SHALL BE AT LEAST A FEET OF MASSEL SIDEMAKE IF A PORTION OF THE PEDESTAL BASE IS INSTALLED IN ALL SIDEMAK, IF INSTALLED IN A SIDEMAK, THE PEDESTAL BASE SHALL BE INSTALLED ITHERE STALL BASE SHALL BE INSTALLED IFLUSH WITH THE GRADE. INSTALL TWO STAINLESS STEEL SCREWS FOR THE ATTACHMENT OF THE FS BOX. SIGNS RIO-36 ARROWS SHALL POINT IN PROPER DIRECTION GENTERED). INSTALL TWO STAIMLESS STEEL SCREWS FOR EACH PEDESTRIAN SIGN. LEAVE TOP OF GROUND RODS EXPOSED FOR ELECTRICAL INSPECTION. PERESTAL POLE CROUND - GROUND WIRE SHALL COME FROM THE GROUND INDOMESTING TO A THE GROUND TO OWNERTHING TO A THE THANSTOWNER BASE AND THEN TO EACH RIGID SELECT GROUND BOSING.
ALL GROUND FOUS SHALL BE ZY FROM THE CONCRETE POLE BASE. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF CROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO THE TRANSFORMER BASE. ILUMINUM PIPE SJDEWALK/SHOULDER PED SIGNALS TYPE FS BOX & PED DETECTOR WITH 1/2" CALV. —PLUG FOR BOX CONTRACTOR SHALL DRILL HOLES IN THE PIPE AND THE TYPE ES BOX NOT EXCEDIBLY 5/4 JOANETER. CONTRACTOR SHALL USE A ROUND FILE TO REMOVE ALL BURRS AND SHARP EDGES FROM THE UCLES, WIRES SHALL BE PROTECTED WITH HEAT SHRIML THANG OR VINT. TAPE WHERE THEY PASS THROUGH THE HOLES. DETAIL SEE PEDESTAL POLE BASE DETAIL FOR CONCRETE BASE DETAIL AND GROUNDING DETAILS PEDESTAL POLE DETAI
FOR PED DETECTORS
AND PED SIGNALS
GROUNDING REQUIREMENTS: MAX. 48 FINAL GRADE 42 JISTALL TWO
STAINLESS STEEL
SCREWS FOR
THE ATTACHMENT
OF THE FS BOX. ALL GROUNDING AND SPARE CONDUITS THAT ARE INSTALLED IN THE CONCRETE PEDESTAL POLE BASE ARE INCIDENTAL TO BID ITEM 23222ECT INTENDED SPROTROME A MINIMAM OF AT INCIDES CONDUIT PAST THE EDGE OF THE CONCRETE BASE. AN ARROW SALL BE ETUGED INTO THE TOP THE CONCRETE BASE. AN ARROW SALL BE ETUGED INTO THE TOP THE CONCRETE BASE TO SHOW LOCATION AND DIRECTION OF THE SPARE [COMMIT.]. SIGNS RIO-36 ARROWS SHALL POINT IN PROPER DIRECTION CENTERED. — INSTALL TWO STAIMLESS STEEL SCREWS FOR EACH PEDESTRIAN SIGN. THE POLE SHALL BE INSTALLED SO THAT EACH BUTTON IS NO WORE THAN 10° FROM THE PAVED SIDEWALK OR SHOULDER. THERE SHALL BE A 2.5' (MJN.) X 4' (MJN.) CLEAR SPACE AT ALL PEDESTRIAN BUTTONS PER SECTION OF PROWAG REQUIREMENTS. SIDEWALK/SHOULDER STAINLESS STEEL BANDING TAPE ¾* x .03* C2 REQUIRED) PED SIGNALS STAINLESS STEEL BANDING TAPE X x 03 C REOUIRED) TYPE FS BOX & PED DETECTOR WITH 1/2 GALV. PLUG FOR BOX. STEEL STRAIN POLE DETAIL
FOR PED DETECTORS
AND PED SIGNALS MAX. . [O] .8 GRADE 2 8/19/2021 E-SHEET NAME: TOOGOOPO DATE PLOTTED: Morch 8, 2022 FILE NAME: C:\PWWORK\ADAM.PROCTOR\D1899079\ALL SIGNAL STANDARDS.DGN

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BOURBON COUNTY FD04 009 068X 000 -001 Contract ID: 224440 NUMBER OF TURNS SPECIFIED ON LAYOUT DETAIL SHEET NUMBER OF TURNS SPECIFIED ON LAYOUT DETAIL SHEET PREFORMED LOOP CROSS SECTION LOOP WIRE PLAN LOOP WIRE PLAN 7-9028.00 ITEM NO. 6'x30' OUADRAPOLE PREFORMED LOOP LOOP DETAILS COUNTY OF BOURBON 6'×6' PREFORMED LOOP PREFORMED LOOP LEAD-IN SHALL BE TWISTED WITH THREE TO FIVE LUDNS PER FOOT UNTIL TERMINATED AT FIELD COMMECTIONS IN THE CABINET OR CONNECTED TO SHIELDED CABLE. TO PULL BOX OR CONTROL BOX TO PULL BOX CONTROL BOX Use detail for concrete application if concrete is 4 or less.

Performed loops sould not be institled more than travely inches below the elevation of the find powement surface. Concrete joints and steel enitrocement shall be located to avoid the preformed loop institutions. PRECORMED LODGS SMALL BE CONSTRUCTED WITH IN/NG'OR SMALLER
HEAVY DOLY RELIVENCED RABBER MOSE CLASA & OIL RESISANT),
THE TEE SMALL BE CONSTRUCTED OF REAY DUTY HIGH
TEMPERATURE SYNHEITE ROBBER, TAMOARD WIRE SMALL
BE ALTER RAIDE "IG THRN OR TFFN, PREFORMED LOOP DIAGRAM PREFORMED LOOP DIAGRAM ASPHALT SAW SLOT DETAIL FOR PREFORMED MAXIMUM NUMBER OF WIRES IN A TUBE PER SLOT IS 4. MAXIMUM NUMBER OF TUBES PER SLOT IS 1. PREFORMED PUT UNDER PAVEMENT LOOP LEAD-IN NON-SHRINK GROUT IN 1/2-SAW SLOT. PREFORMED LOOP IN 1/2 SAW SLOT. I BACKER ROD IN 1/2 SAW SLOT. PROPOSED FINISHED SURFACE. PLACE TUBE -PREFORMED -FROM START OF HOWERUN 331 LOOP WIRES IN SAW SLOT PAVED SURFACE DRILL 1/2- DIAMETER HOLE FROM SAW SLOT (9-12- FROM SHOULDER OR FACE OF CURB) TO CONDUIT AND INSTALL 1" RIGID STEEL CONDUIT. ATION OF A LOOP.

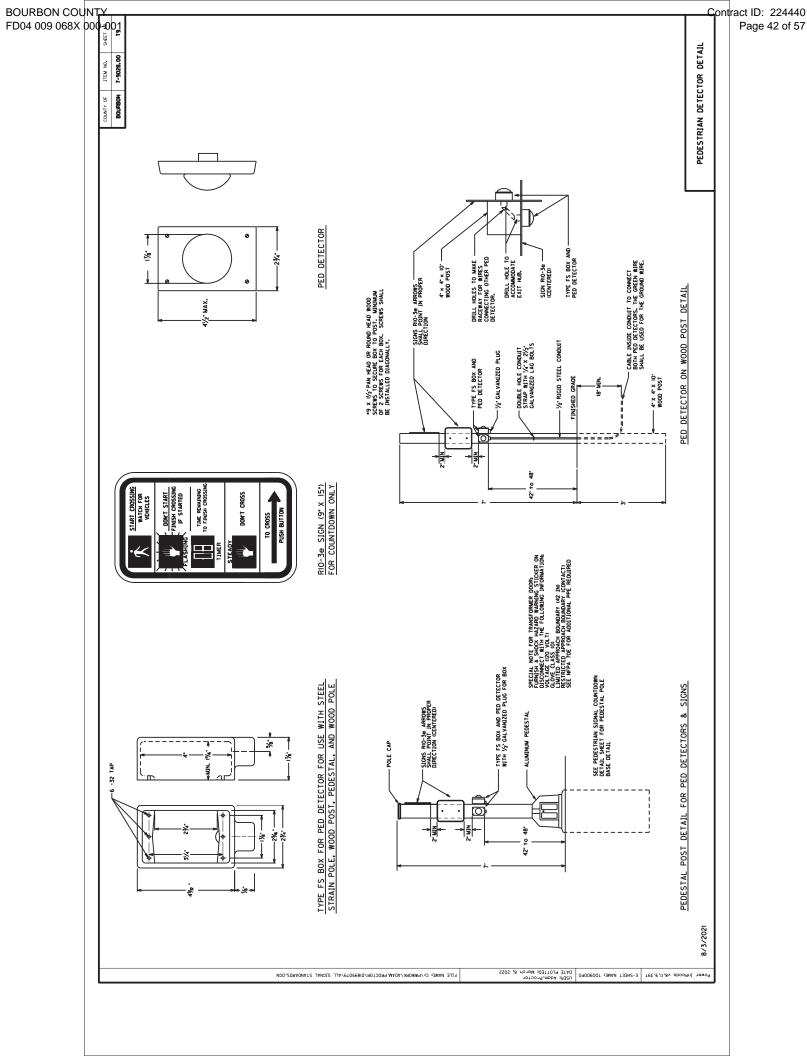
ALOUGH THE SOAT OF BE CUT, PERFENDICULAR TO THE FLOW OF REFER AND CENTERED. IN THE LANG.

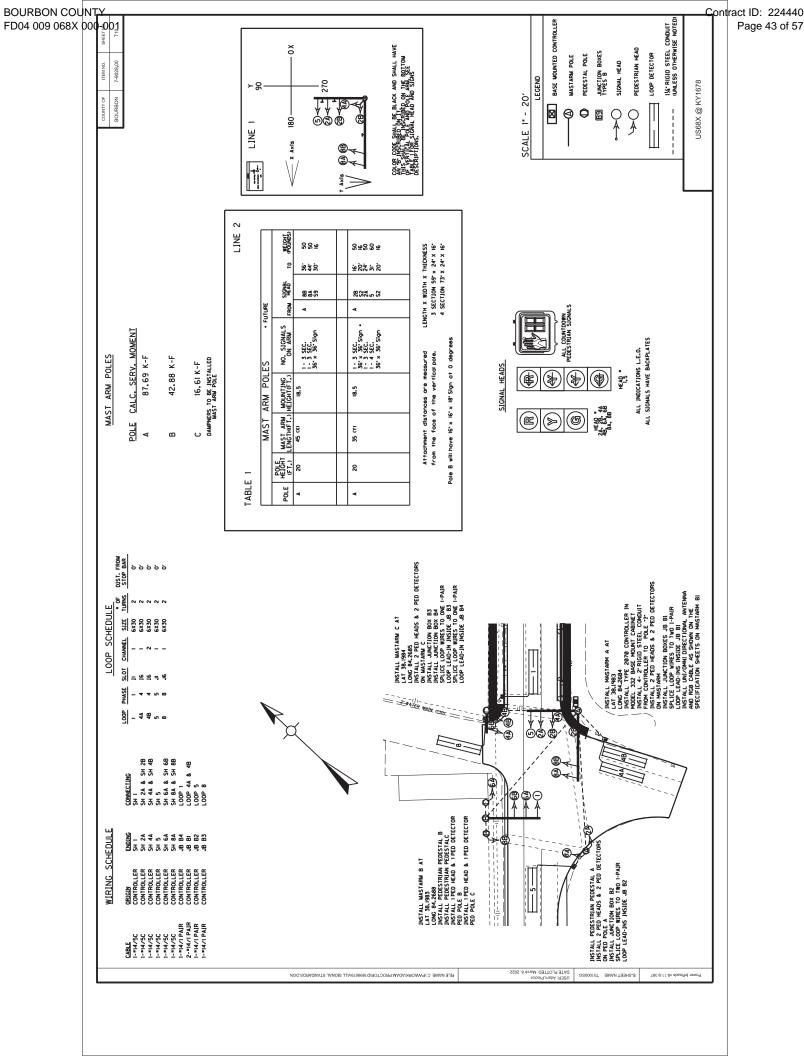
HARFE EACH SHREAT AND HOW HOLE AND AT A DEPTH SLICH THAT THE TOP OF THE SACRET ROOT IS A MINIMUM OF 4 INCHES BELOW THE SURFACE OF ASPHALT SACRET ROOT IS A MINIMUM OF 4 INCHES BELOW THE SURFACE OF ASPHALT SACRET. LOOP SEALANT FROM THE BOTTOM UP AND FULLY ENCAPSULATE THE LOOF IN THE SAW SLOT, THE WIRE SHOULD NOT BE ABLE TO MOVE WHEN THE SAW SLOT EDGE OF PAVEMENT TRANSITION CONSTRUCTION DETAILS FOR LOOP SAW SLOT AND FILL BID JTEM, THE FOLLOWING IS A TYPICAL STEP BY STEP PROCEDURE FOR THE NATURALIATION TO A LOOP.

NOT CAREFULLY MARK THE SLOT TO BE FUIT DEBDENNING A DAY. -8-15 EDGE OF PAVED -SURFACE OR FACE OF CURB I'R S CONDUIT TO JUNCTION BOX OR CABINET 18" MIN, DEPTH NON-SHRINK GROUT IN % SAW SLOT 1/2 BACKER ROD IN 1/8 SAW SLOT LOOP WIRES ENCAPSULATED IN LOOP SEALANT IN % SAW SLOT MAXIMUM NUMBER OF WIRES IN A SINGLE SAW SLOT IS 6 PROPOSED FINISHED SURFACE SECTION A-A (SAW SLOT DETAIL) NUMBER OF TURNS SPECIFIED ON LAYOUT DETAIL SHEET LOOP WIRE PLAN WIRING PLAN CORE DRILL 11/2" HOLE AND/OR CHISEL CORNERS TO SLOT DEPTH TO ELIMINATE SHARP EDGES TO PULL BOX OR CONTROL BOX 6'X30' OUADRAPOLE LOOP Ä, CONTROL BOX OR B - EXTEND CUT
BEYOND CORNER
TO ACHIEVE
FULL DEPTH
(TYP.) 6'X6' L00P MIST UNSHEIGED LOOP WIRES (UNSA SI-7) WITH START OF THE HOMERUM TO THE JUNGTION BOX, CABINET, OR FOLE, SCIC CAN BE WIDEN TO THE THE START OF THE THISTER WIRE. SECTION B-B (TWIST NOTE)
-FOR CANCELING OUT CROSSTALK PLAN SAW CUT PLAN SAW CUT EXTEND CUT BEYOND CORNER TO ACHJEVE FULL DEPTH CORE DRILL 1/2" HOLE ——
AND/OR CHISEL CORNER
TO SLOT DEPTH TO
ELIMINATE SHARP EDGES **₹** Ľ TO PULL BOX OR BOX %-SAW SLOT % SAW SLOT TO PULL BOX OR CONTROL BOX 10/25/2021 FILE NAME: C:/PWWORK/ADAM,PROCTOR\D1899079\ALL SIGNAL STANDARDS.DGN P4 SP11.9.397 E-SHEET NAME: T00400LP

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BOURBON COUNTY FD04 009 068X 000-001 Contract ID: 224440 ITEM NO. US 68X @ KY 1678 COUNTY OF COLOR COCK STAIL BE BLACK AND SHALL HAVE THE SOLVEN STAIL BY STAIL BE SOLVEN STAIL BY STAIL B COLOR CODE STAIL BE BLACK AND SHALL HAVE THE STAIL BY STA ŏ ŏ 270 270 ≻ გ ≻8 **93**9 80 LINE 3 ~ LINE x Axis -0. LINE 2 LINE POUNDS POUNDS LENGTH X WIDTH X THICKNESS
3 SECTION 59" x 24" X 16"
4 SECTION 73" X 24" X 16" පීම්පී පී 22 LENGTH X WIDTH X THICKNESS 3 SECTION 59" x 24" X 16" 4 SECTION 73" X 24" X 16" 2 ₹ %%₫ SIGNAL 4 8 NO. SIGNALS ON ARM NO. SIGNALS ON ARM 1 - 3 SEC. 36' × 36' Sign 1 - 3 SEC. 1 - 4 SEC. Pole B will have 16" x 16" x 18" Sign at 0 degrees 1 - 3 SEC. 1 - 3 SEC. Pole B will have 16' x 16' x 18' Sign at 0 degrees Attachment distances are measured from the face of the vertical pole. Attachment distances are measured from the face of the vertical pole. MAST ARM POLES MAST ARM POLES MOUNTING HEIGHTOFT.) ENGTHIFT.) HEIGHTIFT.) MAST ARM LENGTHIFT.) H FOLE (FT.) TABLE 1 TABLE 1 POLE POLE

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DIVISION OF TRAFFIC OPERATIONS

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PROJECT MATERIALS RELEASE FORM FOR SIGNAL AND LIGHTING

Note: Email form with signatures to KYTC's warehouse (kim.stamper@ky.gov) at least two (2) days prior to arrival for pickup. Ensure Contractor's delivery driver has a copy of form with signatures. Failure to do either may result in long delays or refusal to distribute materials upon arrival.

Item Number: 7-9028.00
County: BOURBON

Description: US68X @ KY1678

Cabinets	Master code	
	1 T-01-0020	Base Mounted 332 Cabinet
	1 T-01-0105	ATC Controller
	1 T-01-0106	1C w/Maxtime (this should go with item ATC controller)
	2 T-01-0510	Isolator, Model 242 (1 for 2070, plus for ped detector and railroad)
	4 T-01-0600	Loop Detector, Model 222
	10 T-01-0700	Load Switches

Signals		
8 T-02-	-0009	Siemens 3 Section Signal
8 T-02-	-0032	Siemen 3 section backplate
2 T-02-	-0033	Siemen 4 secton 12" signal (poly)
2 T-02-	-0043	Siemen 4-sec. straight signal backplate
8 T-02-	-0090 I	Pedestrian signal housing
2 T-02-	-0300 I	LED Module 12" red arrow
4 T-02-	-0310 I	LED Module 12" yellow arrow
2 T-02-	-0320 I	LED Module 12" green arrow
8 T-02-	-0330 I	LED Module 12" red ball
8 T-02-	-0340 I	LED Module 12" yellow ball
8 T-02-	-0350 I	LED Module 12" green ball
8 T-02-	-0365 I	LED Countdown Pedestrian Module

Special items									
1	T-02-0504	Router (this includes power supply/antenna/cabling)							
2	T-02-0650	Pedstl.top mntg.bkt One-way							
1	T-02-0660	Pedstl.top mntg.bkt Two-way							
3	T-02-0670	Pedestal							
8	T-06-0710	Ped Detector Pole Mount FSA Box							
8	T-06-0730	Ped Button w/o Plunger							
8	T-17-0015	9 X 15 Countdown Ped Sign DBL Sided							
8	T-02-0640	Mast arm mount signal bracket (3 section)							
2	T-02-0641	Mast arm mount signal bracket (4 section)							
4	T-02-0646	Mast Arm Dampers							

Electrical Contractor Name

Electrical Contractor Supervisor

Contact number for Supervisor

Project Engineer

Contact number for Project Engineer

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project Signature of Project Engineer or Designee

PART II SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications* for Road and Bridge Construction and Standard Drawings are superseded by Standard Specifications for Road and Bridge Construction, Edition of 2019 and Standard Drawings, Edition of 2020.

SUPPLEMENTAL SPECIFICATIONS

The contractor shall use the Supplemental Specifications that are effective at the time of letting. The Supplemental Specifications can be found at the following link:

 $\underline{http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx}$

2020 STANDARD DRAWINGS THAT APPLY

TRAFFIC						
~ TEMPORARY ~						
TRAFFIC CONTROL						

LANE CLOSURE TWO-LANE HIGHWAY	TTC-100-05
LANE CLOSURE MULTI-LANE HIGHWAY CASE I	TTC-115-04
SHOULDER CLOSURE	TTC-135-03

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

LABOR AND WAGE REQUIREMENTS APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

- I. Application
- II. Nondiscrimination of Employees (KRS 344)

I. APPLICATION

- 1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.
- 2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.
- 3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY GENERAL ASSEMBLY TO PREVENT DISCRIMINATION IN EMPLOYMENT KRS CHAPTER 344 EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

- 1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

- 3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.
- 4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

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EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (7) provides:

No present or former public servant shall, within six (6) months following termination of his office or employment, accept employment, compensation, or other economic benefit from any person or business that contracts or does business with, or is regulated by, the state in matters in which he was directly involved during the last thirty-six (36) months of his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, or for which he received, prior to his state employment, a professional degree or license, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved during the last thirty-six (36) months of his tenure in state government. This subsection shall not prohibit the performance of ministerial functions, including but not limited to filing tax returns, filing applications for permits or licenses, or filing incorporation papers, nor shall it prohibit the former officer or public servant from receiving public funds disbursed through entitlement programs.

KRS 11A.040 (9) states:

A former public servant shall not represent a person or business before a state agency in a matter in which the former public servant was directly involved during the last thirty-six (36) months of his tenure, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 1025 Capital Center Drive, Suite 104, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: May 23, 2022

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under *Vendor Information*, *Standard Attachments and General Terms* at the following address: https://www.eProcurement.ky.gov.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

PLOYEE RIGH DER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE

BEGINNING JULY 24, 2009

OVERTIME PAY

At least 1½ times your regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR

An employee must be at least 16 years old to work in most non-farm jobs and at least 18 to work in non-farm jobs declared hazardous by the Secretary of Labor.

Youths 14 and 15 years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs under the following conditions:

No more than

- 3 hours on a school day or 18 hours in a school week;
- 8 hours on a non-school day or 40 hours in a non-school week.

Also, work may not begin before 7 a.m. or end after 7 p.m., except from June 1 through Labor Day, when evening hours are extended to 9 p.m. Different rules apply in agricultural employment.

TIP CREDIT

Employers of "tipped employees" must pay a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee's tips combined with the employer's cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference. Certain other conditions must also be met.

ENFORCEMENT

The Department of Labor may recover back wages either administratively or through court action, for the employees that have been underpaid in violation of the law. Violations may result in civil or criminal action.

Employers may be assessed civil money penalties of up to \$1,100 for each willful or repeated violation of the minimum wage or overtime pay provisions of the law and up to \$11,000 for each employee who is the subject of a violation of the Act's child labor provisions. In addition, a civil money penalty of up to \$50,000 may be assessed for each child labor violation that causes the death or serious injury of any minor employee, and such assessments may be doubled, up to \$100,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.

ADDITIONAL INFORMATION

- · Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- · Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- Some state laws provide greater employee protections; employers must comply with both.
- The law requires employers to display this poster where employees can readily see it.
- Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer.
- · Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.



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PART IV

INSURANCE

Refer to *Kentucky Standard Specifications for Road and Bridge Construction*,

current edition

PART V

BID ITEMS

224440

PROPOSAL BID ITEMS

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Report Date 5/20/22

Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02650		MAINTAIN & CONTROL TRAFFIC (BOURBON US 68X)	1.00	LS		\$	
0020	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	

Section: 0002 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0030	02562		TEMPORARY SIGNS	150.00	SQFT		\$	
0040	04792		CONDUIT-1 IN	15.00	LF		\$	
0050	04793		CONDUIT-1 1/4 IN	120.00	LF		\$	
0060	04795		CONDUIT-2 IN	365.00	LF		\$	
0070	04811		ELECTRICAL JUNCTION BOX TYPE B	4.00	EACH		\$	
0800	04820		TRENCHING AND BACKFILLING	230.00	LF		\$	
0090	04830		LOOP WIRE	1,425.00	LF		\$	
0100	04844		CABLE-NO. 14/5C	1,370.00	LF		\$	
0110	04850		CABLE-NO. 14/1 PAIR	500.00	LF		\$	
0120	04881		MAST ARM POLE	3.00	EACH		\$	
0130	04895		LOOP SAW SLOT AND FILL	590.00	LF		\$	
0140	20093NS835		INSTALL PEDESTRIAN HEAD-LED	8.00	EACH		\$	
0150	20188NS835		INSTALL LED SIGNAL-3 SECTION	8.00	EACH		\$	
0160	20266ES835		INSTALL LED SIGNAL- 4 SECTION	2.00	EACH		\$	
0170	20390NS835		INSTALL COORDINATING UNIT	1.00	EACH		\$	
0180	21543EN		BORE AND JACK CONDUIT	300.00	LF		\$	
0190	21743NN		INSTALL PEDESTRIAN DETECTOR	8.00	EACH		\$	
0200	23157EN		TRAFFIC SIGNAL POLE BASE	8.77	CUYD		\$	
0210	23222EC		INSTALL SIGNAL PEDESTAL	3.00	EACH		\$	
0220	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH		\$	
0230	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	

Section: 0003 - DEMOBILIZATION

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FΡ	AMOUNT
0240	02569	DEMOBILIZATION	1.00	LS		\$	