



**CALL NO. 435**

**CONTRACT ID. 224203**

**BULLITT COUNTY**

**FED/STATE PROJECT NUMBER 015GR22T017-FE04**

**DESCRIPTION VARIOUS ROUTES IN BULLITT COUNTY**

**WORK TYPE SIGNS-LIGHTING-SIGNALS**

**PRIMARY COMPLETION DATE 5/31/2023**

**LETTING DATE: July 21,2022**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 21,2022. 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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**PART I**  
**SCOPE OF WORK**

## ADMINISTRATIVE DISTRICT - 05

**CONTRACT ID - 224203**

**015GR22T017-FE04**

**COUNTY - BULLITT**

**PCN - 0501500442201**

**FE04 015 0044 018-019**

OLD MILL ROAD (KY 44) (MP 18.480) SIGNALIZATION OF THE INTERSECTION OF KY 44 & BOGARD LANE (MP 18.580), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS

GEOGRAPHIC COORDINATES LATITUDE 38:01:34.00 LONGITUDE 85:36:48.00

ADT 16,020

**PCN - 0501500612201**

**FE04 015 0061 009-010**

PRESTON HIGHWAY (KY 61) (MP 9.370) SIGNALIZATION OF THE INTERSECTION OF KY 61 & KY 245 (MP 9.470), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS

GEOGRAPHIC COORDINATES LATITUDE 37:55:24.00 LONGITUDE 85:41:55.00

ADT 5,257

**PCN - 0501500612202**

**FE04 015 0061 020-021**

PRESTON HIGHWAY (KY 61) (MP 20.000) SIGNALIZATION OF THE INTERSECTION OF KY 61 & KY 2553 (MP 20.100), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS

GEOGRAPHIC COORDINATES LATITUDE 38:03:41.00 LONGITUDE 85:40:16.00

ADT 18,451

**COMPLETION DATE(S):**

COMPLETED BY 05/31/2023

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](http://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](mailto: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](http://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

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 FOR COMPLETION DATES & LIQUIDATED DAMAGES**

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The ultimate fixed completion date for this project will be July 31<sup>st</sup>, 2023. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

Contrary to Section 108.09, Liquidated Damages will be assessed for the months of December through March.

Contrary to Section 108.09, Liquidated Damages will be assessed regardless of whether seasonal limitations prohibit the Contractor from performing work on the controlling operation.

All liquidated damages will be applied accumulatively.

All other applicable portions of Section 108 apply.

## **SPECIAL PROVISION FOR WASTE AND BORROW SITES**

Obtain U.S. Army Corps of Engineer's approval before utilizing a waste or borrow site that involves "Waters of the United States". The Corps of Engineers defines "Waters of the United States" as perennial or intermittent streams, ponds or wetlands. The Corps of Engineers also considers ephemeral streams, typically dry except during rainfall but having a defined drainage channel, to be jurisdictional waters. Direct questions concerning any potential impacts to "Waters of the United States" to the attention of the appropriate District Office for the Corps of Engineers for a determination prior to disturbance. Be responsible for any fees associated with obtaining approval for waste and borrow sites from the U.S. Army Corps of Engineer or other appropriate regulatory agencies.

1-296 Waste & Borrow Sites  
01/02/2012

## **COORDINATION OF WORK WITH OTHERS**

Be advised, there may be active project(s) adjacent to or within this project. These may be KYTC administered contracts or work being performed as part of a KYTC issued encroachment permit. The Engineer will help coordinate the work of any other Contractors or permit holders within the limits of this project. See Sections 105.06, 107.06 and 107.14 of the Standard Specifications.

Coordination with Others D-5/Louisville  
11/21/2016

## TRAFFIC CONTROL PLAN

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### 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, 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 will 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

LANE CLOSURES & MOBILE OPERATIONS ARE PERMITTED DURING THE FOLLOWING HOURS:

- Sunday through Thursday nights 8:00 P.M. – 6:00 A.M.
- Friday & Saturday nights 8:00 P.M. – 7:00 A.M.

LANE CLOSURES WILL NOT BE PERMITTED ON THE FOLLOWING DAYS:

Labor Day Weekend	Friday, September 2, 2022 – Monday, September 5, 2022
Thanksgiving Holiday	Wednesday, November 23, 2022 – Monday, November 28, 2022
Christmas Holiday	Friday, December 23, 2022 – Sunday, December 25, 2022
New Year’s Day Holiday	Saturday, December 31, 2022 – Sunday, January 1, 2023
Easter Weekend	Friday, April 7, 2023 – Sunday, April 9, 2023
Memorial Day Weekend	Friday, May 26, 2023 – Monday, May 29, 2023
Independence Day	Saturday, July 1, 2023 – Tuesday, July 4, 2023

For all traffic, maintain one lane of traffic in each direction at all times during construction.

The Engineer may permit minor operations that do not require a lane closure and cause little disruption to traffic between the hours of 9:00 A.M. to 2:00 P.M.

The Engineer may specify additional days and hours when lane closures will not be allowed.

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 11 feet. At locations with one lane, such as at exit and

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entrance ramps, a partial lane closure is permitted during construction, as long as a minimum clear lane width of 11 feet is maintained. NOTE: During any lane closure or partial 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.

The Department will require night work on this project. Obtain the Engineer's approval of the method of lighting prior to performing night work.

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.

### **LANE CLOSURES & LIQUIDATED DAMAGES**

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.

In the event that lane closures are in place outside of the days and/or times listed above, Liquidated Damages shall be applied as follows:

- \$ 1,000 for the first hour or fraction thereof
- \$ 2,500 for any additional hour or fraction thereof

A lane closure shall be defined as any traffic control device or Contract worker or vehicle in the traveled way that could potentially impact the flow of traffic. This includes but not limited to signs, barricades, barrels, cones, arrow boards, flaggers and Contractor work vehicles.

All liquidated damages will be applied cumulatively.

### **TEMPORARY SIGNS**

Temporary sign posts 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.

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### **CHANGEABLE MESSAGE SIGNS**

If deemed necessary, Portable Changeable Message Signs will be provided by the Department. The Contractor may be asked to assist in the placement and setup of the portable changeable message signs. The Engineer will determine placement locations and the messages to be displayed.

### **ARROW PANELS**

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Arrow Panels 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 replacements for damaged Arrow Panels or for panels signs the Engineer directs be replaced due to poor condition or readability for payment. Retain possession of the Arrow Panels upon completion of the work.

### **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.

The Department will measure asphalt materials required to construct and maintain any temporary entrances which may be necessary to provide temporary access; however, the Department will not measure aggregates, excavation, and/or embankment, but shall be incidental to Maintain and Control Traffic. The Engineer will determine the type of surfacing material, asphalt or aggregate, to be used at each entrance.

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## **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.

The Department will measure barricades used to protect pavement removal areas in individual units Each. The Department will measure for payment the maximum number of barricades in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual barricades 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 replacements for damaged barricades the Engineer directs to be replaced due to poor condition or reflectivity. Retain possession of the Barricades upon completion of the work.

## **PAVEMENT EDGE DROP-OFFS**

Do not allow a pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation with an elevation difference greater than 1½". Place Warning signs (MUTCD W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual post the signs on both sides of the traveled way. Wedge all transverse transitions between resurfaced and unresurfaced areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course.

Protect pavement edges that traffic is not expected to cross, except accidentally, as follows:

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. During daylight working hours only, the Engineer will allow the Contractor to use cones in lieu of plastic drums, panels, and barricades. Wedge the drop-off with DGA or asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

Greater than 4' - Protect drop-offs greater than 4 inches within 10 feet of traffic by placing drums, vertical panels, or barricades every 25 feet. The Engineer will not allow the use of cones in lieu of drums, vertical panels, or barricades for drop-offs greater than 4". Place Type III Barricades directly in front of the drop-off facing oncoming traffic in both directions of travel. Provide warning signs as shown on the Standard Drawings or as directed by the Engineer

Pedestrians & Bicycles - Protect pedestrian and bicycle traffic as directed by 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 insuring 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 insure 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:

<b><u>Word</u></b>	<b><u>Abbrev</u></b>	<b><u>Example</u></b>
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 I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/ MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/ USE I275
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 I64 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 I75/ 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 I75 CLOSED/ DETOUR EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/ USE I275 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 I75/ USE ALT RTE
Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
Slippery	SLIP	SLIP COND POSSIBLE/ SLOW SPD
Southbound	S-BND	S-BND I75 CLOSED/ DETOUR EXIT 50
Speed	SPD	SLIP COND POSSIBLE/ SLOW SPD

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**Standard Abbreviations** (cont)

<b><u>Word</u></b>	<b><u>Abbrev</u></b>	<b><u>Example</u></b>
Street	ST	MAIN ST CLOSED/ USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/ DETOUR EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/ USE I275 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:

<b><u>Abbrev</u></b>	<b><u>Intended Word</u></b>	<b><u>Word Erroneously Given</u></b>
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.

<b><u>Reason/Problem</u></b>	<b><u>Action</u></b>
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
FOG XX MILES	PASS TO RIGHT

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**Typical Messages** (cont)

**Reason/Problem**

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

**Action**

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

## UTILITIES AND RAIL CERTIFICATION NOTE

**Bullitt County - FE04 015 0044 018-019;  
FE04 015 0061 009-010; & FE04 015 0061 020-021  
Signalization of KY 44 @ Bogard Lane, KY 61 @ KY 245,  
and KY 61 @ KY 2553**

*Utility coordination efforts conducted by the project sponsor have determined that no significant utility relocation work is required to complete the project. Any work pertaining to these utility facilities is defined in the bid package and is to be carried out as instructed by the Kentucky Transportation Cabinet. The contractor will be responsible for any coordination or adjustments that are discussed or quantified in the proposal.*

**THE FOLLOWING RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED**

**No Rail Involved**     **Minimal Rail Involved (See Below)**     **Rail Involved (See Below)**

**UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG**

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.

**SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES**

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his 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.

## UTILITIES AND RAIL CERTIFICATION NOTE

**Bullitt County - FE04 015 0044 018-019;  
FE04 015 0061 009-010; & FE04 015 0061 020-021  
Signalization of KY 44 @ Bogard Lane, KY 61 @ KY 245,  
and KY 61 @ KY 2553**

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.

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

### AREA UTILITIES CONTACT LIST AS PROVIDED BY KY 811

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
1. AT&T KY 1340 E. John Rowan Blvd Bardstown, KY 40004		Scott Roche Office (502) 348-4528 Cell (502) 827-4703 <a href="mailto:SR8832@att.com">SR8832@att.com</a>
2. AT&T Legacy 7555 E. Pleasant Valley Road, Suite 140 Independence, OH 44131		Bill Taggart <a href="mailto:WT2462@att.com">WT2462@att.com</a> Office Cell (614) 370-5414 Don Garr, Cell (502) 741-8374 <a href="mailto:DonGarr@outlook.com">DonGarr@outlook.com</a>
3. Bullitt County Public Schools 1040 Highway 44 East  Shepherdsville, KY 40165  (Consultant: LG Fiber)  LG Fiber PO Box 1702 Mt. Vernon, KY 40456		Kevin Fugate Office (502) 869-8040  Cell (502) 639-3458 <a href="mailto:Kevin.Fugate@bullitt.kyschools.us">Kevin.Fugate@bullitt.kyschools.us</a>  Larry Gregory  <a href="mailto:LGFiber@gmail.com">LGFiber@gmail.com</a> (606) 521-2649
4. Bullitt County Sanitation District PO Box 818 Hillview, KY 40129		Jerry Kennedy Office (502) 957-6140 Cell (502) 643-3165 <a href="mailto:BullittSanitation@windstream.net">BullittSanitation@windstream.net</a>

## UTILITIES AND RAIL CERTIFICATION NOTE

**Bullitt County - FE04 015 0044 018-019;  
FE04 015 0061 009-010; & FE04 015 0061 020-021  
Signalization of KY 44 @ Bogard Lane, KY 61 @ KY 245,  
and KY 61 @ KY 2553**

**5. CenturyLink Communications, LLC (See Lumen Technologies Inc.)**

6. Charter Communications  
10168 Linn Station Road, Suite 120  
Louisville, KY 40223

Kevin Mercer  
Office (502) 357-4724  
Cell (502) 817-5055

[Kevin.Mercer@charter.com](mailto:Kevin.Mercer@charter.com)

Michael York  
Cell (502) 548-1632

[Michael.York@charter.com](mailto:Michael.York@charter.com)

**Facility Map Requests to Kevin-Mike**

7. City of Mount Washington  
Mt. Washington Sewer & Water Commission  
311 Snapp Street  
4781  
Mt. Washington, KY 40047

Elizabeth Hall, City Administrator  
[DHall@mtwky.org](mailto:DHall@mtwky.org)  
Office (502) 538-4216 or (502) 538-

Cell (502) 955-6784  
Paul Brannon, Public Works Director  
Office (502) 538-3771

Cell (502) 398-0835  
Cell (502) 693-1146

[PBrannon@mtwky.org](mailto:PBrannon@mtwky.org)

Derrick Engineering, Consultant

[DerrickInc@bellsouth.net](mailto:DerrickInc@bellsouth.net)

8. City of Shepherdsville Sewer  
634 Conestoga Parkway  
PO Box 400  
Shepherdsville, KY 40165  
Shepherdsville)

Arthur Jones, Engineer  
Office (502) 492-7404  
[AJones@shepcity.com](mailto:AJones@shepcity.com)  
Office (502) 955-7803 (City of

Scott Fleming  
Cell (502) 664-6254  
[SFleming@shepcity.com](mailto:SFleming@shepcity.com)

9. City of Taylorsville Sewer & Water  
70 Taylorsville Road, PO Box 279  
Taylorsville, KY 40071

Harold Compton  
(502) 477-3235  
Fax (502) 477-1310  
[HCompton@TaylorsvilleWater.org](mailto:HCompton@TaylorsvilleWater.org)

Sisler & Maggard  
220 Reynolds Rd  
Lexington, KY 40517

Kevin Sisler, Consultant  
(859) 271-2978 (859) 509-3799  
[Kevin.@SislerMaggard.com](mailto:Kevin.@SislerMaggard.com)  
Steve Biven, City Clerk  
(502) 477-3235 x106

## UTILITIES AND RAIL CERTIFICATION NOTE

**Bullitt County - FE04 015 0044 018-019;  
FE04 015 0061 009-010; & FE04 015 0061 020-021  
Signalization of KY 44 @ Bogard Lane, KY 61 @ KY 245,  
and KY 61 @ KY 2553**

10. Crown Castle Network Operations  
10300 Ormsby Park Place, Suite 501  
Louisville, KY 40223

Mona Couch  
Office (317) 249-2029  
Cell (317) 439-1578  
[Mona.Couch@crowncastle.com](mailto:Mona.Couch@crowncastle.com)  
Lisa Clark, Construction Manager  
(810) 223-3780  
[Lisa.Clark@crowncastle.com](mailto:Lisa.Clark@crowncastle.com)  
Craig Brown, Manager-Network

**Facility Map Requests to Edna, Wendy, Tessa,  
Construction**

**Mona, Lisa & Craig  
8342**

Office (317) 819-8648, Cell (585) 402-  
[Craig.Brown@crowncastle.com](mailto:Craig.Brown@crowncastle.com)

11. East Kentucky Power Coop  
PO Box 707  
4775 Lexington Road  
Winchester, KY 40391

Garry Harvey  
(859) 745-9601  
[Garry.Harvey@ekpc.coop](mailto:Garry.Harvey@ekpc.coop)  
Ronnie Terrill  
Office (859) 745-9594  
Cell (859) 582-5376  
[Ronnie.Terrill@ekpc.coop](mailto:Ronnie.Terrill@ekpc.coop)

12. Kentucky Wired, KCNA  
500 Mero Street – Suite 1-1 NC #59  
Frankfort, KY 40601

Mike Hayden,  
Chief Operating Officer  
Office (502) 782-2535  
[Mike.Hayden@ky.gov](mailto:Mike.Hayden@ky.gov)

Ledcor, Service Provider  
LTS Kentucky Managed Technical Services LLC  
2008 Mercer Rd. 2nd floor  
Lexington, KY 40511

Nick Blake  
Operations Manager  
Office (859) 286-8158  
Cell (859) 447-0781  
[Nick.Blake@Ledcor.com](mailto:Nick.Blake@Ledcor.com)

Gary Lady, Ledcor  
Office (606) 594-6959  
[Gary.lady@ledcor.com](mailto:Gary.lady@ledcor.com)



## UTILITIES AND RAIL CERTIFICATION NOTE

**Bullitt County - FE04 015 0044 018-019;  
FE04 015 0061 009-010; & FE04 015 0061 020-021  
Signalization of KY 44 @ Bogard Lane, KY 61 @ KY 245,  
and KY 61 @ KY 2553**

Facility Map Requests to [KIH.Technical.Services@ledcor.com](mailto:KIH.Technical.Services@ledcor.com)

13. LG&E KU (Electric)  
820 West Broadway  
Louisville, KY 40202  
LG&E Emergency Number (502) 589-1444  
LG&E and KU Emergency Number 1-800-331-7370  
Caroline Justice  
Office (502) 627-3708  
[Caroline.Justice@LGE-KU.com](mailto:Caroline.Justice@LGE-KU.com)
14. LG&E (Gas)  
820 West Broadway  
Louisville, KY 40202  
Gas Emergency Number (502) 589-5511  
LG&E and KU Emergency Number 1-800-331-7370  
Caroline Justice  
Office (502) 627-3708  
[Caroline.Justice@LGE-KU.com](mailto:Caroline.Justice@LGE-KU.com)
15. Lebanon Junction Water Works  
City Hall - Main Street  
PO Box 69  
Lebanon Junction, KY 40150  
Charles Sullivan  
Cell (502) 817-0352  
[LJWW16@yahoo.com](mailto:LJWW16@yahoo.com)  
City Hall (502) 833-4311
16. Louisville Water Company  
550 South Third Street  
Louisville, KY 40202  
Facility Map Requests to [LWCGISProducts@lwcky.com](mailto:LWCGISProducts@lwcky.com) [PHoward@lwcky.com](mailto:PHoward@lwcky.com)  
Pat Howard, PE  
Office (502) 569-3615  
Cell (502) 287-7568
17. Lumen Technologies Inc.  
11857 Commonwealth Drive  
Louisville, KY 40299  
Tim Sewell  
[tim.sewell@lumen.com](mailto:tim.sewell@lumen.com)  
502 389-4812 / 502 295-0940  
Richard Compton  
[Richard.compton@lumen.com](mailto:Richard.compton@lumen.com)
18. Marathon Pipeline, LLC  
539 South Main Street, Room X-05-018  
Findlay, OH 45840  
or  
20-C Industrial Drive  
Specialist  
Lexington, OH 44904  
Dennis Durnal  
Office (502) 448-8311  
Cell (419) 581-0038  
[DDurnal@marathonpetroleum.com](mailto:DDurnal@marathonpetroleum.com)  
Austin Guyer / Sr. Right of Way  
Office (317) 291-9460 x1233  
Cell: 317-473-7441  
[AGuyer@marathonpetroleum.com](mailto:AGuyer@marathonpetroleum.com)

## UTILITIES AND RAIL CERTIFICATION NOTE

**Bullitt County - FE04 015 0044 018-019;  
FE04 015 0061 009-010; & FE04 015 0061 020-021  
Signalization of KY 44 @ Bogard Lane, KY 61 @ KY 245,  
and KY 61 @ KY 2553**

19. Mid - Valley Pipeline Company  
4910 Limaburg Road  
Burlington, KY 41005

Richard (Todd) Calfee  
Office (859) 371-4469 x14  
Cell (859) 630-8271  
Fax (866) 699-1185  
[Todd.Calfee@energytransfer.com](mailto:Todd.Calfee@energytransfer.com)

Justin White  
Office (859) 371-4469  
Cell (859) 630-1823  
[Justin.White@energytransfer.com](mailto:Justin.White@energytransfer.com)

Bobby Scott  
(859) 512-3877  
[Robert.Scott@energytransfer.com](mailto:Robert.Scott@energytransfer.com)  
Andy Wyderka, Mgr.-Pipeline

Operations

Office (859) 993-7392  
Cell (419) 618-1505  
[Andrew.Wyderka@energytransfer.com](mailto:Andrew.Wyderka@energytransfer.com)

20. Nolin Rural Electric Cooperative Corp.  
411 Ring Road  
Elizabethtown, KY 42701

Donnie Probst  
(270) 765-6153  
**Contact not in KURTS**

21. Pioneer Village Sewer Plant  
4846 Brownsboro Center Arcade  
Louisville, KY 40242

Joe Sanders  
Cell (502) 609-2114  
NO EMAIL  
Jim Walser, Owner  
(502) 895-4273  
**Contact not in KURTS**

22. Salt River Rural Electric Coop. Corp.  
111 W. Brashear Ave.  
Bardstown, KY 40004  
(Telephone in Bullitt County)

Daniel Carrico  
[DCarrico@srelectric.com](mailto:DCarrico@srelectric.com)  
(502) 350-1606

23. T-Mobile (Sprint) Fiber Optics  
3007 Tucumcari Dr.  
Sardinia, OH 45171

Steven T. Hughes  
Office (513) 459-5796  
Cell (814) 553-2300  
[Steven.Hughes1@T-Mobile.com](mailto:Steven.Hughes1@T-Mobile.com)

## UTILITIES AND RAIL CERTIFICATION NOTE

**Bullitt County - FE04 015 0044 018-019;  
FE04 015 0061 009-010; & FE04 015 0061 020-021  
Signalization of KY 44 @ Bogard Lane, KY 61 @ KY 245,  
and KY 61 @ KY 2553**

24. Verizon  
730 West Henry Street  
Indianapolis, IN 46225
- Verizon  
Ops  
2421 Holloway Road  
Louisville, KY 40299
- Dean Boyers  
Office (615) 777-7855  
Cell (615) 507-5287  
[Dean.Boyers@verizon.com](mailto:Dean.Boyers@verizon.com)  
Jeffrey Tucker, Engr III Spec-Ntwk Eng &  
Office (502) 830-1827  
Cell (502) 593-5585  
[Jeffrey.Tucker@verizon.com](mailto:Jeffrey.Tucker@verizon.com)  
Ronnie Kuerzi, Eng IV Spec-Ntwk Eng  
Cell (502) 780-2748  
[Ronald.Kuerzi@verizon.com](mailto:Ronald.Kuerzi@verizon.com)
25. White Cloud Communications  
4890 Knobb Creek Road  
Brooks, KY 40109
- TJ Scott  
Office (855) 552-2253  
Cell (502) 215-4111  
[TScott@wcloudus.com](mailto:TScott@wcloudus.com)
26. Windstream  
111 S. Main Street  
Elizabethtown, KY 42701
- Windstream
- Steve Johnson, Sr Engineer OSP  
130 W New Circle Road, Suite 170  
Lexington, KY 40505
- James Galvin  
Office (270) 765-1818  
Cell (270) 748-9249  
[James.Galvin@windstream.com](mailto:James.Galvin@windstream.com)
- Steve Johnson, Sr Engineer OSP  
Office (859) 357-6209  
Cell (859) 321-2035  
[Steve.Johnson@windstream.com](mailto:Steve.Johnson@windstream.com)

# MATERIAL SUMMARY

**CONTRACT ID: 224203**

**015GR22T017-FE04**

**0501500442201**

OLD MILL ROAD (KY 44) SIGNALIZATION OF THE INTERSECTION OF KY 44 & BOGARD LANE SIGNS-  
LIGHTING-SIGNALS, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0165	02562	TEMPORARY SIGNS	300.00	SQFT
0170	02650	MAINTAIN & CONTROL TRAFFIC - (BULLITT KY 44 @ BOGARD)	1.00	LS
0175	02775	ARROW PANEL	4.00	EACH
0180	04820	TRENCHING AND BACKFILLING	33.00	LF
0185	04844	CABLE-NO. 14/5C	1,900.00	LF
0190	04845	CABLE-NO. 14/7C	800.00	LF
0195	04886	MESSENGER-15400 LB	410.00	LF
0200	04932	INSTALL STEEL STRAIN POLE	4.00	EACH
0205	20093NS835	INSTALL PEDESTRIAN HEAD-LED	4.00	EACH
0210	20188NS835	INSTALL LED SIGNAL-3 SECTION	8.00	EACH
0215	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
0220	20275EC	VIDEO DETECTION-INSTALL	4.00	EACH
0225	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0230	21743NN	INSTALL PEDESTRIAN DETECTOR	4.00	EACH
0235	23157EN	TRAFFIC SIGNAL POLE BASE	25.00	CUYD
0240	23235EC	INSTALL PEDESTAL POST	2.00	EACH
0245	24900EC	PVC CONDUIT-1 1/4 IN-SCHEDULE 80	28.00	LF
0250	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	40.00	LF
0255	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
0260	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 224203**

**015GR22T017-FE04**

**0501500612201**

PRESTON HIGHWAY (KY 61) SIGNALIZATION OF THE INTERSECTION OF KY 61 & KY 245 SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02562	TEMPORARY SIGNS	300.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC - (BULLITT KY 61 @ KY 245)	1.00	LS
0015	02775	ARROW PANEL	4.00	EACH
0020	04820	TRENCHING AND BACKFILLING	10.00	LF
0025	04844	CABLE-NO. 14/5C	1,000.00	LF
0030	04845	CABLE-NO. 14/7C	400.00	LF
0035	04886	MESSENGER-15400 LB	455.00	LF
0040	04932	INSTALL STEEL STRAIN POLE	4.00	EACH
0045	20188NS835	INSTALL LED SIGNAL-3 SECTION	8.00	EACH
0050	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
0055	20275EC	VIDEO DETECTION-INSTALL	6.00	EACH
0060	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0065	23157EN	TRAFFIC SIGNAL POLE BASE	27.00	CUYD
0070	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	40.00	LF
0075	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
0080	24955ED	REMOVE SIGNAL EQUIPMENT - (BULLITT KY 61 @ KY 245)	1.00	EACH
0085	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

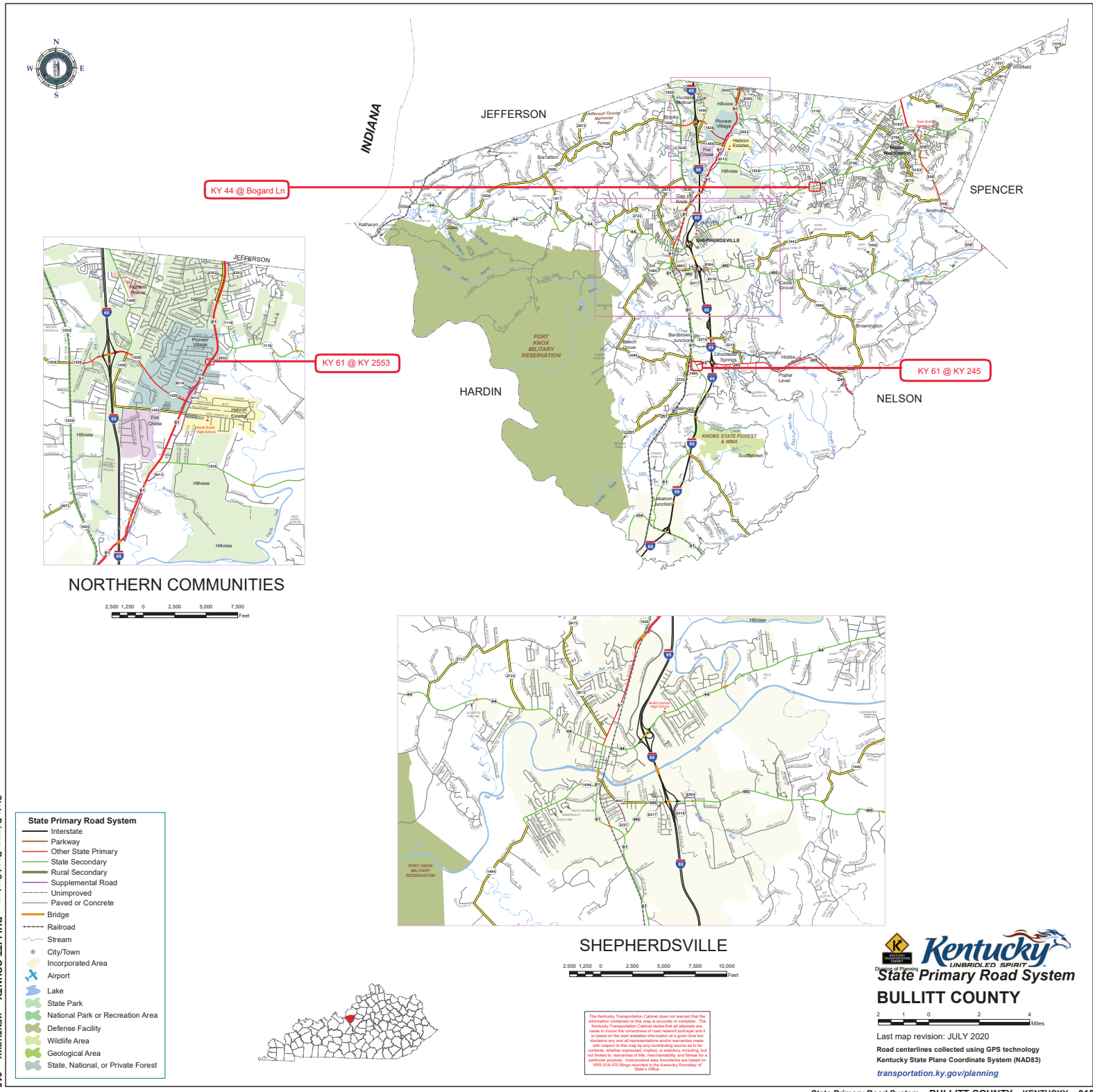
**CONTRACT ID: 224203**

**015GR22T017-FE04**

**0501500612202**

PRESTON HIGHWAY (KY 61) SIGNALIZATION OF THE INTERSECTION OF KY 61 & KY 2553 SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0090	02562	TEMPORARY SIGNS	300.00	SQFT
0095	02650	MAINTAIN & CONTROL TRAFFIC - (BULLITT KY 61 @ KY 2553)	1.00	LS
0100	02775	ARROW PANEL	4.00	EACH
0105	04820	TRENCHING AND BACKFILLING	5.00	LF
0110	04844	CABLE-NO. 14/5C	830.00	LF
0115	04845	CABLE-NO. 14/7C	340.00	LF
0120	04886	MESSENGER-15400 LB	505.00	LF
0125	04932	INSTALL STEEL STRAIN POLE	4.00	EACH
0130	20188NS835	INSTALL LED SIGNAL-3 SECTION	11.00	EACH
0135	20275EC	VIDEO DETECTION-INSTALL	4.00	EACH
0140	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0145	23157EN	TRAFFIC SIGNAL POLE BASE	19.00	CUYD
0150	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	20.00	LF
0155	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
0160	02569	DEMOBILIZATION	1.00	LS



**Kentucky**  
UNBRIDLED SPIRIT  
State Primary Road System  
**BULLITT COUNTY**

Last map revision: JULY 2020  
Road centerlines collected using GPS technology  
Kentucky State Plane Coordinate System (NAD83)  
[transportation.ky.gov/planning](http://transportation.ky.gov/planning)

Tim Tharpe - Director  
Phone (502) 564-3020  
FAX (502) 564-7759

**DIVISION OF TRAFFIC OPERATIONS**

**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: \_\_\_\_\_

County: **Bullitt**

Description: **KY 44 at Bogard & Lloyd**

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)
1	T-01-0501	Conflict Monitor, Model 2018 <span style="background-color: red; color: white; padding: 2px;">Special Order</span>
1	T-01-0510	Isolator, Model 242 (1 for 2070, plus for ped detector and railroad)
9	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 section 12" signal (poly)
2	T-02-0043	Siemen 4-sec. straight signal backplate
4	T-02-0090	Pedestrian signal housing
2	T-02-0300	LED Module 12" red arrow
4	T-02-0310	LED Module 12" yellow arrow
2	T-02-0320	LED Module 12" green arrow
8	T-02-0330	LED Module 12" red ball
8	T-02-0340	LED Module 12" yellow ball
8	T-02-0350	LED Module 12" green ball
4	T-02-0365	LED Countdown Pedestrian Module

Special items		
1	N/A	Video Detection System Camera Detector, SP
1	T-02-0504	Router (this includes power supply/antenna/cabling)
2	T-02-0661	Post Top for Pedestal (each)
2	T-02-0670	Pedestal
4	T-06-0710	Ped Detector Pole Mount FSA Box
4	T-06-0730	Ped Button w/o Plunger
4	T-17-0015	9 X 15 Countdown Ped Sign DBL Sided

Poles		
4	T-04-0040	Steel Strain Pole 34 foot

**REQUIRED**

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 \_\_\_\_\_





TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

ITEM CODE	ITEM	UNIT	TOTAL
2562	TEMPORARY SIGNS	50 FT	300
2569	DEMobilIZATION (4-52)	LP SUM	1
2650	MAINTAIN & CONTROL TRAFFIC (52)	LP SUM	1
2775	FLASHING ARROW	EACH	4
4820	TRENCHING AND BACKFILLING	LIN FT	33
4844	CABLE - NO. 14/5C	LIN FT	1900
4845	CABLE - NO. 14/7C	LIN FT	800
4886	MESSENGER - 15400 LB	LIN FT	410
4932	INSTALL STEEL STRAIN POLE	EACH	4
2018MS835	INSTALL SIGNAL - 3 SECTION LED	EACH	8
20266E5835	INSTALL SIGNAL - 4 SECTION LED	EACH	2
20275EC	VIDEO DETECTION - INSTALL	EACH	4
20093NS835	INSTALL PEDESTRIAN HEAD LED	EACH	4
20390MS835	INSTALL COORDINATING UNIT	EACH	1
21743NN	INSTALL PEDESTRIAN DETECTOR	EACH	4
23157EN	TRAFFIC SIGNAL POLE BASE	CU YD	25
23235EC	INSTALL PEDESTAL POST	EACH	2
2490DEC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80	LIN FT	28
2490IEC	CONDUIT - 2 INCH	LIN FT	40
2490BEC	INSTALL SIGNAL CONTROLLER TYPE ATC	EACH	1

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 706, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPlicing.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING THE BID. ANY SURETY BOND SHALL BE PROVIDED 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 ALL MATERIALS FOR INSTALL ITEMS. VIDEO DETECTION SYSTEM CAMERA DETECTOR SP. SHALL BE PICKED UP FROM KYTC'S DISTRICT 5. TO COORDINATE PICKUP TIME AND LOCATION, CONTACT TRAFFIC ENGINEER

1517 DURRETT LANE  
LOUISVILLE, KY 40213  
(502-550-0803)

ALL OTHER INSTALL ITEMS SHALL BE PICKED UP AT KYTC'S DIVISION OF EQUIPMENT WAREHOUSE (1239 WILKINSON BOULEVARD, FRANKFORT, KY 40622). THE FOLLOWING MATERIALS WILL BE DELIVERED TO THE PROJECT SITE. THESE DELIVERY AND UNLOADING PROCEDURES MAY RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE MATERIALS UPON ARRIVAL.

- CONTRACTOR SHALL SECURE THE SIGNATURES OF KYTC'S PROJECT ENGINEER AND THE ELECTRICAL CONTRACTOR'S FOREMAN ON THE PROJECT MATERIALS RELEASE FORM. IF THE RELEASE FORM IS NOT IN THE PROPOSAL, CONTACT TED SWANSEGAR OR KERRY ROBERTS AT (502) 550-0803. TRAFFIC ENGINEER: KERRY ROBERTS, (502-782-5536) OR EMAIL: TSWANSEGAR@KYTC.GOV
- CONTRACTOR SHALL CONTACT THE WAREHOUSE TO PREARRANGE PICK UP OF MATERIALS. CONTRACTOR SHALL EMAIL THE PROJECT MATERIALS RELEASE FORM WITH REQUIRED SIGNATURES TO THE WAREHOUSE AT KIM.STAMPER@KYTC.GOV AND SHALL NOTIFY THE WAREHOUSE BY PHONE (502-782-8994/502-330-8153) OR EMAIL KIM.STAMPER@KYTC.GOV AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL.
- CONTRACTOR SHALL ALSO CONTACT THE SIGNAL SYSTEM BRANCH OF THE DIVISION OF EQUIPMENT WAREHOUSE (1239 WILKINSON BOULEVARD, FRANKFORT, KY 40622) AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL TO FACILITATE PROGRAMMING OF ROUTERS.
- CONTRACTOR SHALL ARRIVE AT THE KYTC'S DIVISION OF EQUIPMENT WAREHOUSE (1239 WILKINSON BOULEVARD, FRANKFORT, KY 40622) AT THE PREARRANGED DATE/TIME FOR MATERIAL PICK UP. TO FACILITATE THIS PROCESS, ENSURE CONTRACTOR'S DELIVERY DRIVER HAS A COPY OF THE PROJECT MATERIALS RELEASE FORM WITH THE REQUIRED SIGNATURES.

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 0501".

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 723

INSTALL VIDEO CAMERA - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE INSTALLATION OF THE CAMERA. THE QUANTITY WILL BE MEASURED AS THE QUANTITY SHOWN ON THE DETAIL SHEET AND WILL CONSIDER THESE INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING TRUSS TYPE ARM (IF NECESSARY), POWER CABLE, COAXIAL CABLE, OR ANY HARDWARE NECESSARY FOR PROPER INSTALLATION AND WILL CONSIDER THESE INCIDENTAL TO THIS ITEM OF WORK. CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER WHEN INSTALLATION IS COMPLETE FOR PLACEMENT OF LOOPS.

INSTALL SIGNAL CONTROLLER TYPE ATC. THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE THE CONCRETE BASE, MOUNTING THE CABINET, CONNECTING THE SIGNAL AND DETECTORS, EXCAVATION, BACKFILLING, RESTORATION, ANY NECESSARY POLE MOUNTING HARDWARE, ELECTRIC SERVICE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE THE CONCRETE FOUNDATION, LIGHTNING RODS, AMPLIFIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL 400 METER CARD FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE FURNISHING AND INSTALLING ELECTRICAL SERVICE CONDUCTORS, CONDUITS, ANCHORS, METER BASE, FUSED CUTOUT, FUSES, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION 803.02 POLES AND BASES INSTALLATION. B) REVISION: REPLACE ENTIRE TABLE WITH THE FOLLOWING:

MAXIMUM SERVICE FORCES	DRILLED SHAFT DATA				VERTICAL BARS SIZE	TIES OR SPIRAL BAR SIZE	SPACING OR PITCH (IN.)
	DIAMETER (IN.)	SOIL	ROCK	DEPTH (FEET)			
MOMENT (FT-KIPS)							
10-19.9	36	6	6	6.5	8	#4	24
20-29.9	36	6	6	6.5	8	#4	24
30-39.9	36	6	6	6.5	8	#4	24
40-49.9	36	6	6	6.5	8	#4	24
50-59.9	36	6	6	6.5	8	#4	24
60-69.9	36	6	6	6.5	8	#4	24
70-79.9	36	6	6	6.5	8	#4	24
80-89.9	36	6	6	6.5	8	#4	24
90-99.9	36	6	6	6.5	8	#4	24
100-109.9	36	6	6	6.5	8	#4	24
110-119.9	36	6	6	6.5	8	#4	24
120-129.9	36	6	6	6.5	8	#4	24
130-139.9	36	6	6	6.5	8	#4	24
140-149.9	36	6	6	6.5	8	#4	24
150-159.9	36	6	6	6.5	8	#4	24
160-169.9	36	6	6	6.5	8	#4	24
170-179.9	36	6	6	6.5	8	#4	24
180-189.9	36	6	6	6.5	8	#4	24
190-199.9	36	6	6	6.5	8	#4	24
200-209.9	36	6	6	6.5	8	#4	24
210-219.9	36	6	6	6.5	8	#4	24
220-229.9	36	6	6	6.5	8	#4	24
230-239.9	36	6	6	6.5	8	#4	24
240-249.9	36	6	6	6.5	8	#4	24
250-259.9	36	6	6	6.5	8	#4	24
260-269.9	36	6	6	6.5	8	#4	24
270-279.9	36	6	6	6.5	8	#4	24
280-289.9	36	6	6	6.5	8	#4	24
290-299.9	36	6	6	6.5	8	#4	24
300-309.9	36	6	6	6.5	8	#4	24
310-319.9	36	6	6	6.5	8	#4	24
320-329.9	36	6	6	6.5	8	#4	24
330-339.9	36	6	6	6.5	8	#4	24
340-349.9	36	6	6	6.5	8	#4	24
350-359.9	36	6	6	6.5	8	#4	24
360-369.9	36	6	6	6.5	8	#4	24
370-379.9	36	6	6	6.5	8	#4	24
380-389.9	36	6	6	6.5	8	#4	24
390-399.9	36	6	6	6.5	8	#4	24
400-409.9	36	6	6	6.5	8	#4	24
410-419.9	36	6	6	6.5	8	#4	24
420-429.9	36	6	6	6.5	8	#4	24
430-439.9	36	6	6	6.5	8	#4	24
440-449.9	36	6	6	6.5	8	#4	24
450-459.9	36	6	6	6.5	8	#4	24
460-469.9	36	6	6	6.5	8	#4	24
470-479.9	36	6	6	6.5	8	#4	24
480-489.9	36	6	6	6.5	8	#4	24
490-499.9	36	6	6	6.5	8	#4	24
500-509.9	36	6	6	6.5	8	#4	24

4-5-2022



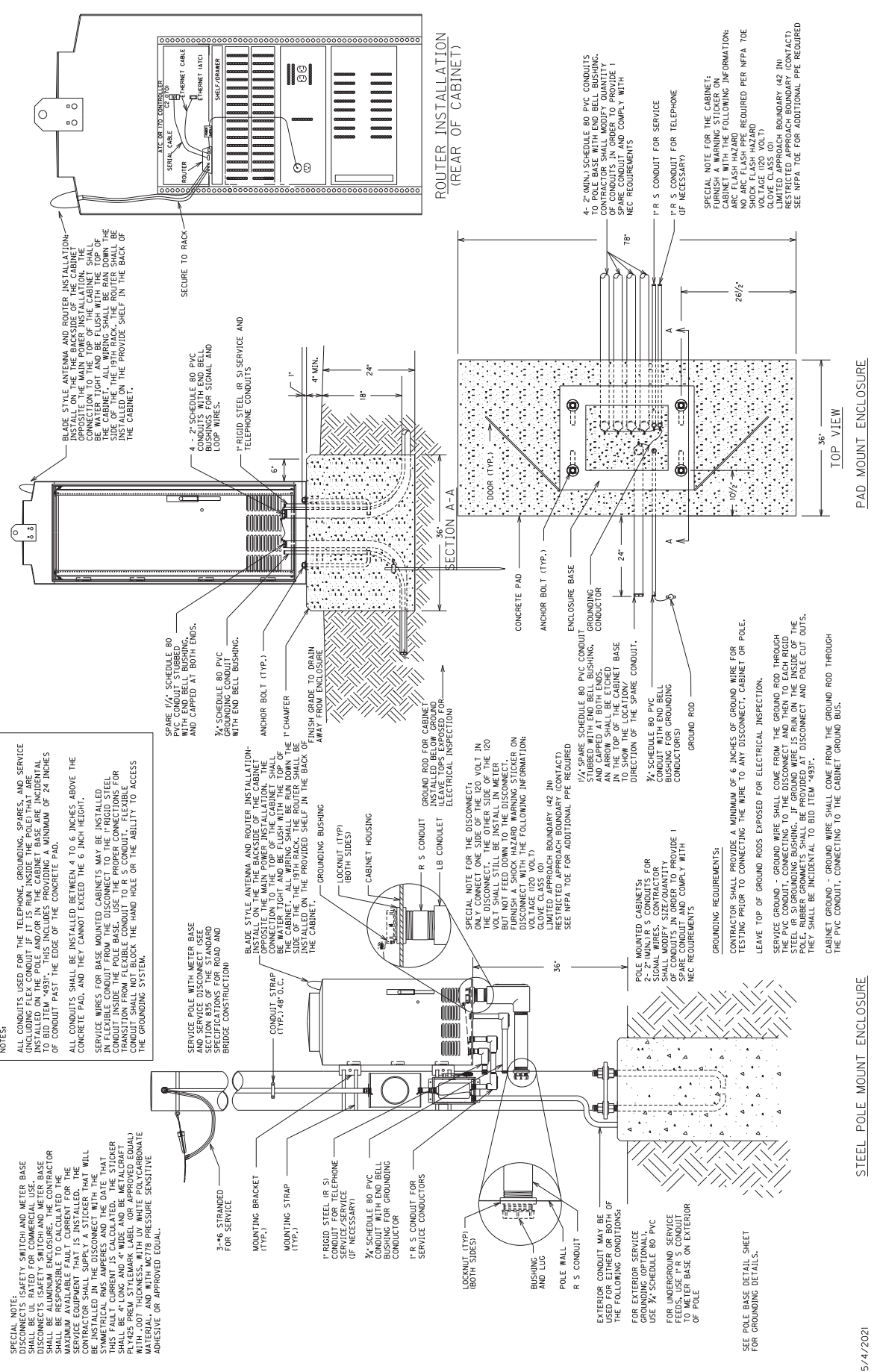
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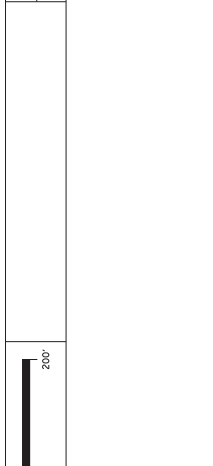
COUNTY OF BULLITT  
ITEM NO.  
SHEET NO. T2

**NOTES:**  
ALL CONDUITS USED FOR THE TELEPHONE, GROUNDING, SPARES, AND SERVICE INCLUDING FLEX CONDUIT IF IT IS RUN INSIDE THE CABINET THAT ARE INSTALLED ON THE POLE AND/OR IN THE CABINET BASE ARE INCIDENTAL TO THE MAIN POWER INSTALLATION. THE MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE PAD.  
ALL CONDUITS SHALL BE INSTALLED BETWEEN 4 TO 6 INCHES ABOVE THE CONCRETE PAD, AND THEY CANNOT EXCEED THE 6 INCH HEIGHT.  
SERVICE WIRES FOR BASE MOUNTED CABINETS MAY BE INSTALLED IN FLEXIBLE CONDUIT FROM THE DISCONNECT TO THE RIGID STEEL CONDUIT FROM THE DISCONNECT TO THE MAIN POWER. THE TRANSITION FROM FLEXIBLE CONDUIT TO R/S CONDUIT, FLEXIBLE CONDUIT SHALL NOT BLOCK THE HAND HOLE OR THE ABILITY TO ACCESS THE GROUNDING SYSTEM.

**SPECIAL NOTE:**  
SAFETY SWITCH AND METER BASE SHALL BE RATED FOR COMMERCIAL USE DISCONNECTS (SAFETY SWITCH AND METER BASE SHALL BE ALUMINUM ENCLOSURE. THE CONTRACTOR SHALL PROVIDE THE METER BASE WITH THE MAXIMUM AVAILABLE FAULT CURRENT FOR THE SERVICE EQUIPMENT THAT IS INSTALLED. THE CONTRACTOR SHALL SUPPLY A STICKER THAT WILL IDENTIFY THE METER BASE AND THE DATE THAT THIS FAULT CURRENT IS CALCULATED. THE STICKER SHALL BE 4" LONG AND 4" WIDE AND BE METALCRAFT 42527. THE METER BASE SHALL BE METALCRAFT WITH DOT THICKNESS MARKING WHITE POLYURETHANE MATERIAL AND WITH MC718 PRESSURE SENSITIVE ADHESIVE OR APPROVED EQUAL.



ITEM NO.	N/A	COUNTY OF BULLITT
SHEET NO.	T3	



DATE PLOTTED: 9/7/2015 7:08:02 PM  
FILE NAME: C:\BMS\95184\HW\DWG\SP\_03BRRK.GRD\CD\0509835\STANDARDS.DGN

DRAWING TITLE: CONTROLLER CABINET BASE AND ANTENNA/ROUTER  
COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS  
USER: galckcr















Tim Tharpe - Director  
Phone (502) 564-3020  
FAX (502) 564-7759

**DIVISION OF TRAFFIC OPERATIONS**

**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: \_\_\_\_\_

County: Bullitt

Description: KY 61 at KY 245

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)
1	T-01-0501	Conflict Monitor, Model 2018 <span style="background-color: red; color: white; padding: 2px;">Special Order</span>
1	T-01-0510	Isolator, Model 242 (1 for 2070, plus for ped detector and railroad)
6	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
2	T-02-0300	LED Module 12" red arrow
4	T-02-0310	LED Module 12" yellow arrow
2	T-02-0320	LED Module 12" green arrow
8	T-02-0330	LED Module 12" red ball
8	T-02-0340	LED Module 12" yellow ball
8	T-02-0350	LED Module 12" green ball

Special items		
1	N/A	Video Detection System Camera Detector, SP
1	T-02-0504	Router (this includes power supply/antenna/cabling)

Poles		
2	T-04-0030	Steel Strain Pole 32 foot
2	T-04-0040	Steel Strain Pole 34 foot

**REQUIRED**

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 \_\_\_\_\_

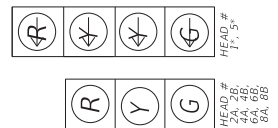




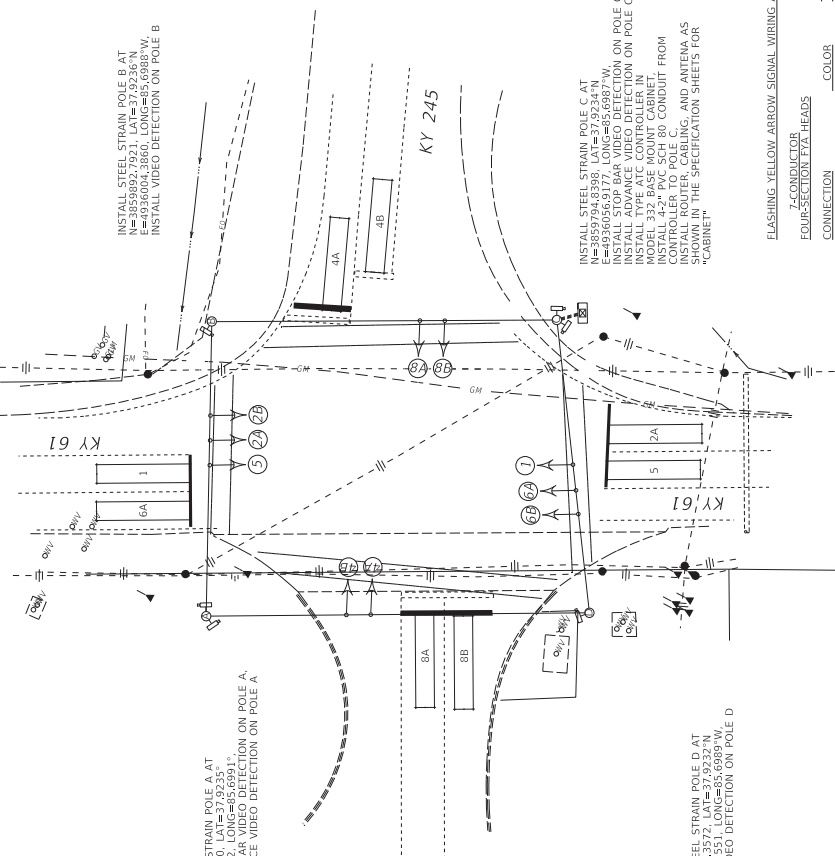




SIGNAL HEADS



ALL MESSENGER 15.4 M. ALL DETECTION BY VIDEO  
 THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF STRAIN POLES. THE CLAMP ASSEMBLY SHALL BE SUITABLE FOR ATTACHING MESSENGER CABLE AND SHALL BE THE SAME TYPE OF ASSEMBLY AS THE ONE PROVIDED WITH THE POLE. EACH CLAMP ASSEMBLY SHALL CONSIST OF A MINIMUM OF TWO (2) SECTIONS. SECTIONS SHALL BE CONNECTED USING A MINIMUM OF TWO (2) BOLTS. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.  
 THE CONTRACTOR SHALL CONFIRM ALL RIGHT OF WAY LINES PRIOR TO CONSTRUCTION.  
 ALL STRIPING WILL BE COMPLETED BY DISTRICT 5 CREWS. STRIPING ON THIS PLAN SHEET IS SHOWN FOR INFORMATION ONLY.



POLE	HEIGHT	SPAN	ATT. HT.	CALC. SERV. MOMENT	SAG
A	34'	A-B	29'	222.57 K-FT	5%
B	32'	B-A	29'	212.29 K-FT	5%
C	32'	B-C	30'	204.40 K-FT	5%
D	34'	C-D	29'	230.06 K-FT	5%

CABLE	ORIGIN	ENDINGS	CONNECTING
1-# 147C	CONTROLLER	SH 1	SH 1
1-# 147C	CONTROLLER	SH 2B	SH 2A & 2B
1-# 147C	CONTROLLER	SH 4	SH 4A & 4B
1-# 147C	CONTROLLER	SH 5	SH 5A & 5B
1-# 147C	CONTROLLER	SH 6A	SH 6A & 6B
1-# 147C	CONTROLLER	SH 6B	SH 6A & 6B
SPECIAL	CONTROLLER	POLE A	ZONES 5 & 6A
SPECIAL	CONTROLLER	POLE B	ZONES 5 & 6A
SPECIAL	CONTROLLER	POLE C	ZONES 8A & 8B
SPECIAL	CONTROLLER	POLE D	ZONES 8A & 8B
SPECIAL	CONTROLLER	POLE C	ZONES 2B & 6A
SPECIAL	CONTROLLER	POLE D	ZONES 4A & 4B

ZONE	PHASE	SLOT	CHANNEL	SIZE	DIST. FROM STOP BAR
1	1	1	1	6X30"	0'
2A	2	1	1	6X30"	0'
6A	6	1	1	6X30"	0'
4B	4	1	1	6X30"	0'
5A	5	1	1	6X30"	0'
8A	8	1	1	6X30"	0'
8B	8	1	1	6X30"	0'
2B	2	1	1	6X10"	217' (NEAR GES DETECTION)
6B	6	1	1	6X10"	217' (NEAR GES DETECTION)
6B	6	1	1	6X10"	384' (FAR GES DETECTION)

INSTALL STEEL STRAIN POLE B AT  
 N=493602389.721, E=493605619.177, LONG=85.68877°W,  
 E=493605619.177, LONG=85.68877°W,  
 INSTALL STOP BAR VIDEO DETECTION ON POLE B.  
 INSTALL ADVANCE VIDEO DETECTION ON POLE B.  
 INSTALL TYPE ATC CONTROLLER IN MODEL 332 BASE MOUNT CABINET.  
 INSTALL 42" PVC SCH 80 CONDUIT FROM POLE C TO POLE B.  
 INSTALL ROUTER, CABLING, AND ANTENNA AS SHOWN IN THE SPECIFICATION SHEETS FOR "CABINET"  
 IN THE 42" CONDUITS FROM POLE C TO POLE B, FOLLOW:  
 CONDUIT 1: 2 - # 147C  
 CONDUIT 2: 2 - # 147C  
 CONDUIT 3: 6 - SPECIAL  
 CONDUIT 4: SPARE

INSTALL STEEL STRAIN POLE C AT  
 N=493591519.702, E=493594984.10, LAT=37.9235°N,  
 E=493591519.702, LONG=85.68991°W,  
 INSTALL ADVANCE VIDEO DETECTION ON POLE A.  
 INSTALL STEEL STRAIN POLE D AT  
 N=493594984.10, E=493591519.702, LONG=85.68991°W,  
 INSTALL VIDEO DETECTION ON POLE D

FLASHING YELLOW ARROW SIGNAL WIRING AND SPECIAL REQUIREMENTS  
 Z-CONDUCTOR FOUR-SECTION FTA HEADS  
 CONNECTION COLOR  
 RED ARROW PHASE 1 RED  
 STEADY YELLOW ARROW PHASE 1 YELLOW  
 FLASHING YELLOW ARROW PHASE 1 GREEN  
 NEUTRAL WHITE  
 EQUIPMENT GROUND GREEN  
 NOT USED WHITE/TRACER

OUTPUT FILE CONNECTION FOR FTA ON PHASE 1  
 PHASE 1 RED  
 PHASE 1 YELLOW  
 PHASE 1 GREEN  
 WHITE

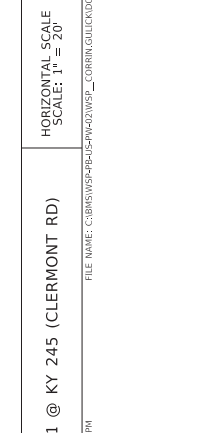
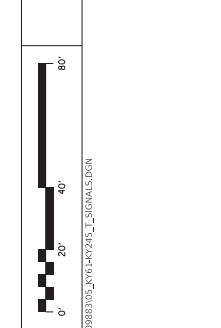
OUTPUT FILE CONNECTION OF FTA ON PHASE 5  
 PHASE 5 RED  
 PHASE 5 YELLOW  
 PHASE 5 GREEN  
 WHITE

THE CONTRACTOR SHALL CONNECT THE CONNECTOR LABELED "PY 4PY 6PY 8PY" TO CONNECTOR "CMU 13.16 RUP" BEHIND THE OUTPUT PANEL. IF IT IS A SOLID STATE CABINET (SIBREX) ONLY HAVE 2 CONNECTORS WHICH SIMPLY NEED TO BE CONNECTED TOGETHER.

LEGEND
BASE MOUNTED CONTROLLER
STEEL STRAIN POLE
PEDESTAL POLE
PEDESTRIAN DETECTOR
SIGNAL HEAD
PEDESTRIAN HEAD
VIDEO DETECTION ZONE
1 1/2" SCHEDULE 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)

SCALE 1" = 20'  
 DRAWING TITLE: SIGNAL PLAN KY 61 @ KY 245 (CLERMONT RD)  
 COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
 USER: galckcr  
 DATE PLOTTED: 9/7/2015 7:08:02 PM  
 FILE NAME: C:\BMS\BSP\BSP\HW\K245WP\_01\CORR\GALCKCR\05098303\_746\K4745\_1\_SIGNALS.DGN

ITEM NO.	INVA	COUNTY OF BULLITT



ITEM NO.	INVA	COUNTY OF BULLITT

SHEET NO.
15

Tim Tharpe - Director  
Phone (502) 564-3020  
FAX (502) 564-7759

**DIVISION OF TRAFFIC OPERATIONS**

**PROJECT MATERIALS RELEASE FORM  
FOR SIGNAL AND LIGHTING**

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Item Number: \_\_\_\_\_

County: **Bullitt**

Description: **KY 61 at KY 2553**

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)
1	T-01-0501	Conflict Monitor, Model 2018 <span style="background-color: red; color: white; padding: 2px;">Special Order</span>
1	T-01-0510	Isolator, Model 242 (1 for 2070, plus for ped detector and railroad)
6	T-01-0700	Load Switches

Signals		
11	T-02-0009	Siemens 3 Section Signal
11	T-02-0032	Siemen 3 section backplate
2	T-02-0300	LED Module 12" red arrow
4	T-02-0310	LED Module 12" yellow arrow
9	T-02-0330	LED Module 12" red ball
9	T-02-0340	LED Module 12" yellow ball
9	T-02-0350	LED Module 12" green ball

Special items		
1	N/A	Video Detection System Camera Detector, SP
1	T-02-0504	Router (this includes power supply/antenna/cabling)

Poles		
2	T-04-0040	Steel Strain Pole 34 foot
1	T-04-0051	Steel Strain Pole 36 foot
1	T-04-0054	Steel Strain Pole 38 foot

**REQUIRED**

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 \_\_\_\_\_



# COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS



## PLANS OF PROPOSED PROJECT Bullitt County



### LAYOUT MAP

DESIGN CRITERIA	INDEX OF SHEETS	DESCRIPTION
CLASS OF HIGHWAY: MINOR ARTERIAL	SHEET NO.	Layout Sheet
TYPE OF TERRAIN: ROLLING	T1	Signal Cabinet and Antenna/Router Detail
DESIGN SPEED: 55 MPH	T2	Signal Plan KY 61 @ KY 2553
REQUIRED PSD: 395'	T3	
REQUIRED PSD: N/A	T4	
LEVEL OF SERVICE: N/A	T5	
ADT PRESENT ( 2019 ): 15,541		
ADT FUTURE ( N/A ): N/A		
DHV: N/A		
D %: N/A		
T %: N/A		
<b>GEOGRAPHIC COORDINATES</b>		
LATITUDE: 38 DEGREES 3 MINUTES 41.7 SECONDS NORTH		
LONGITUDE: 85 DEGREES 40 MINUTES 16.39 SECONDS WEST		
<b>DESIGNED</b>		
% RESTRICTED SD: N/A		
LEVEL OF SERVICE: N/A		
MAX. DISTANCE W/O PASSING: N/A		

INDEX OF SHEETS	
LENGTH 500' UN. FT. 0.1 MILES FOR EQUALITIES UN. FT. 0.1 MILES NOT INCLUDED UN. FT. 0.1 MILES RAILROAD CROSSINGS NO. UN. FT. 0.1 MILES BRIDGES UN. FT. 0.1 MILES	LENGTH 500' UN. FT. 0.1 MILES FOR EQUALITIES UN. FT. 0.1 MILES NOT INCLUDED UN. FT. 0.1 MILES RAILROAD CROSSINGS NO. UN. FT. 0.1 MILES BRIDGES UN. FT. 0.1 MILES
LENGTH 500' UN. FT. 0.1 MILES FOR EQUALITIES UN. FT. 0.1 MILES NOT INCLUDED UN. FT. 0.1 MILES RAILROAD CROSSINGS NO. UN. FT. 0.1 MILES BRIDGES UN. FT. 0.1 MILES	LENGTH 500' UN. FT. 0.1 MILES FOR EQUALITIES UN. FT. 0.1 MILES NOT INCLUDED UN. FT. 0.1 MILES RAILROAD CROSSINGS NO. UN. FT. 0.1 MILES BRIDGES UN. FT. 0.1 MILES
PROJECT NUMBER: N/A PROJECT DESCRIPTION: SIGNAL PLANS KY 61 @ KY 2553	
RECOMMENDED BY: _____ PROJECT MANAGER _____ DATE: _____ DATE: _____ PLAN APPROVED BY: _____ STATE HIGHWAY ENGINEER _____ DATE: _____ DATE: _____	
LETTING DATE: _____ ITEM NO. N/A COUNTY OF BULLITT SHEET NO. T1	







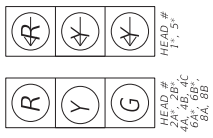
ALL MESSENGER 15.4 M. ALL DETECTION BY VIDEO

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF STRAIN POLE. THE CLAMP ASSEMBLIES SHALL BE SUITABLE FOR ATTACHING MESSENGER CABLE AND SHALL BE THE SAME TYPE OF ASSEMBLY AS THE ONE PROVIDED WITH THE POLE. EACH CLAMP ASSEMBLY SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

THE CONTRACTOR SHALL CONFIRM ALL RIGHT OF WAY LINES PRIOR TO CONSTRUCTION.

ALL STRIPING WILL BE COMPLETED BY DISTRICT 5 CREWS. STRIPING ON THIS PLAN SHEET IS SHOWN FOR INFORMATION ONLY.

**SIGNAL HEADS**

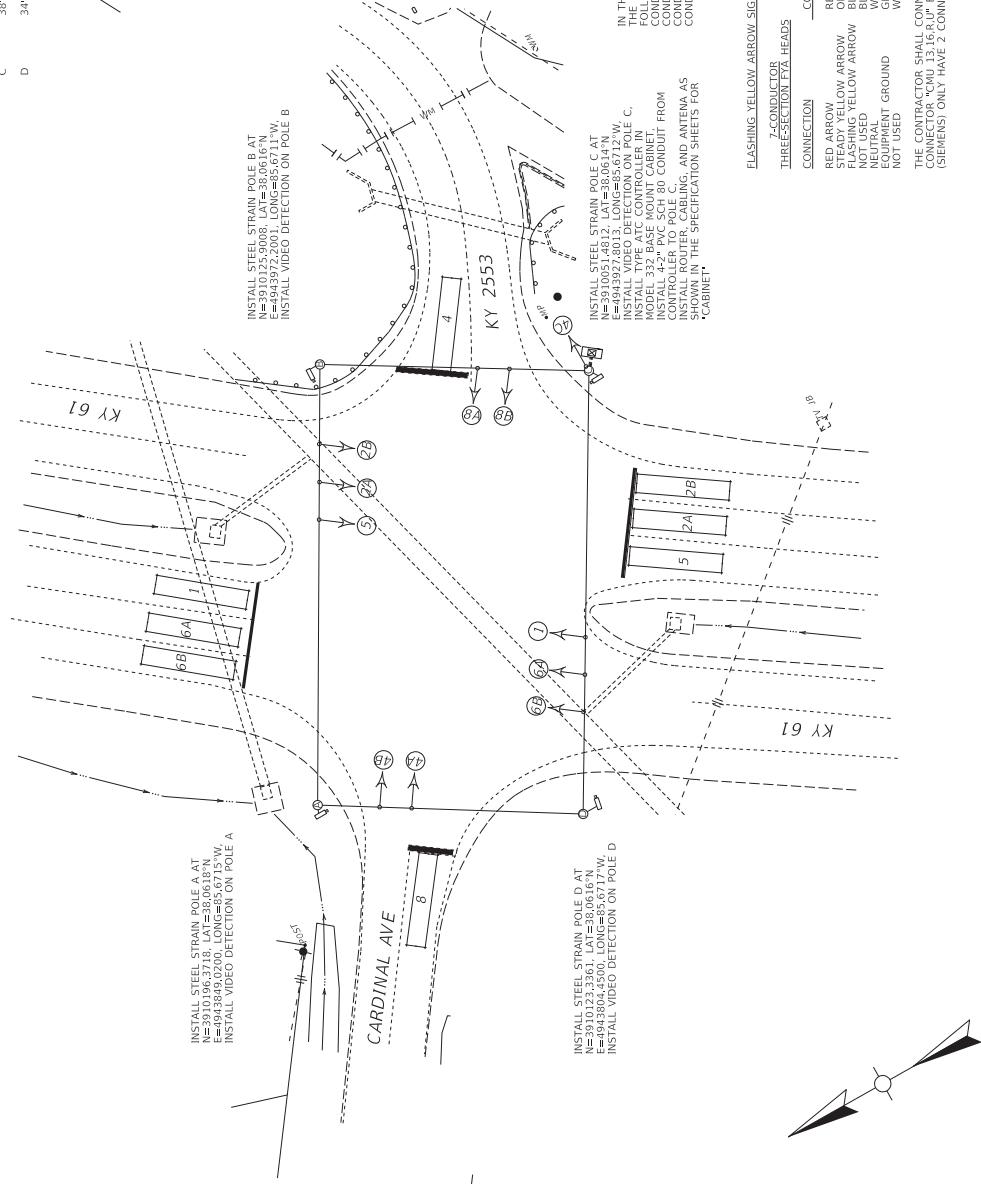


ALL INDICATIONS L.E.D.  
\* MAINLINE SIGNAL HEAD WITH REFLECTIVE BACKPLATE

POLE	HEIGHT	SPAN	ATT. HT.	CALC. SERV. MOMENT	SAG
A	34'	A-B	32'	212.98 K-FT	5%
B	36'	A-D	31'	232.13 K-FT	5%
C	38'	B-C	30'	239.60 K-FT	5%
D	34'	D-C	31'	215.55 K-FT	5%

**VIDEO DETECTION ZONE SCHEDULE**

ZONE	PHASE	SLOT	CHANNEL	SIZE	DIST. FROM STOP BAR
1	1	1	1	6X30"	0'
2A	2	2	2	6X30"	0'
2B	2	2	2	6X30"	0'
4	4	4	4	6X30"	0'
5	5	5	5	6X30"	0'
6	6	6	6	6X30"	0'
8	8	8	8	6X30"	0'



INSTALL STEEL STRAIN POLE A AT  
N=3910125.8008, LAT=38.06161°N  
E=4943972.2001, LONG=85.6711°W  
INSTALL VIDEO DETECTION ON POLE B

INSTALL STEEL STRAIN POLE B AT  
N=3910196.3718, LAT=38.06161°N  
E=4943972.2001, LONG=85.6711°W  
INSTALL VIDEO DETECTION ON POLE A

INSTALL STEEL STRAIN POLE D AT  
N=3910233.3561, LAT=38.06161°N  
E=4943972.2001, LONG=85.6711°W  
INSTALL VIDEO DETECTION ON POLE D

INSTALL STEEL STRAIN POLE C AT  
N=3910233.3561, LAT=38.06161°N  
E=4943972.2001, LONG=85.6711°W  
INSTALL VIDEO DETECTION ON POLE C

IN THE 42" CONDUITS FROM POLE C TO FOLLOWING CONTROLLER, SEPARATE CONDUITS AS FOLLOWS:  
CONDUIT 1: 2 - #14/7C  
CONDUIT 2: 2 - #14/7C  
CONDUIT 3: 6 - SPECIAL  
CONDUIT 4: SPARE

**WIRING SCHEDULE**

CABLE	ORIGIN	ENDING	CONNECTING
1-# 14/7C	CONTROLLER	SH 1	SH 1
1-# 14/5C	CONTROLLER	SH 2A	SH 2A & 2B
1-# 14/5C	CONTROLLER	SH 2B	SH 2A & 2B
1-# 14/5C	CONTROLLER	SH 4C	SH 4C
1-# 14/7C	CONTROLLER	SH 5	SH 5
1-# 14/5C	CONTROLLER	SH 8A	SH 8A & 8B
1-# 14/5C	CONTROLLER	SH 8B	SH 8A & 8B
SPECIAL	POLE A	POLE A	ZONES 2A, 2B, & 5
SPECIAL	POLE B	POLE B	ZONES 1, 6A, & 6B
SPECIAL	POLE C	POLE C	ZONES 1, 6A, & 6B
SPECIAL	POLE D	POLE D	ZONES 1, 6A, & 6B

SCALE 1" = 20'

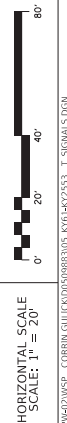
**LEGEND**

- BASE MOUNTED CONTROLLER
- STEEL STRAIN POLE
- SIGNAL HEAD
- VIDEO DETECTION
- VIDEO DETECTION ZONE
- 2" SCHEDULE 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)

FLASHING YELLOW ARROW SIGNAL WIRING AND SPECIAL REQUIREMENTS

THREE-SECTION PTA HEADS	COLOR	OUTLET FILE CONNECTION FOR PTA ON PHASE	OUTLET FILE CONNECTION OF PTA ON PHASE
RED ARROW	RED	PHASE 1 RED	PHASE 5 RED
FLASHING YELLOW ARROW	BLACK	PHASE 1 GREEN	PHASE 5 GREEN
NOT USED	BLUE	N/A	N/A
EQUIPMENT GROUND	GREEN	WHITE	WHITE
NOT USED	WHITE/TRACER	WHITE	WHITE

THE CONTRACTOR SHALL CONNECT THE CONNECTOR LABELED "2PY 4PY 8PY TO CONNECTOR "CMU 13.16.0" BEHIND THE OUTPUT PANEL. IF IT IS A SOLID STATE CABINET (SIEMENS) ONLY HAVE 2 CONNECTORS WHICH SIMPLY NEED TO BE CONNECTED TOGETHER.



HORIZONTAL SCALE  
SCALE: 1" = 20'

DRAWING TITLE: SIGNAL PLAN KY 61 @ KY 2553/CARDINAL AVE



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DATE PLOTTED: 9/7/2015 7:08:02 PM  
FILE NAME: C:\BMS\BHP\BHP\W423WSP\_CORR\KGD\KGD\05098303\_PVG\_K472553\_1\_SIGNALS.DGN

ITEM NO. N/A  
SHEET NO. 15

COUNTY OF BULLITT

**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:

<http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx>



**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.

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 administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

**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.

## 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](mailto:finance.contractcompliance@ky.gov)** or by phone at 502-564-2874.

# EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

## FEDERAL MINIMUM WAGE

# \$7.25 PER HOUR

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.

For additional information:



# 1-866-4-USWAGE

(1-866-487-9243) TTY: 1-877-889-5627



# WWW.WAGEHOUR.DOL.GOV

**PART IV**  
**INSURANCE**

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

**PART V**  
**BID ITEMS**

### PROPOSAL BID ITEMS

224203

Page 1 of 1

Report Date 7/12/22

#### Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02562		TEMPORARY SIGNS	900.00	SQFT		\$	
0020	02650		MAINTAIN & CONTROL TRAFFIC (BULLITT KY 44 @ BOGARD)	1.00	LS		\$	
0030	02650		MAINTAIN & CONTROL TRAFFIC (BULLITT KY 61 @ KY 245)	1.00	LS		\$	
0040	02650		MAINTAIN & CONTROL TRAFFIC (BULLITT KY 61 @ KY 2553)	1.00	LS		\$	
0050	02775		ARROW PANEL	12.00	EACH		\$	

#### Section: 0002 - TRAFFIC SIGNALS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0060	04820		TRENCHING AND BACKFILLING	48.00	LF		\$	
0070	04844		CABLE-NO. 14/5C	3,730.00	LF		\$	
0080	04845		CABLE-NO. 14/7C	1,540.00	LF		\$	
0090	04886		MESSENGER-15400 LB	1,370.00	LF		\$	
0100	04932		INSTALL STEEL STRAIN POLE	12.00	EACH		\$	
0110	20093NS835		INSTALL PEDESTRIAN HEAD-LED	4.00	EACH		\$	
0120	20188NS835		INSTALL LED SIGNAL-3 SECTION	27.00	EACH		\$	
0130	20266ES835		INSTALL LED SIGNAL- 4 SECTION	4.00	EACH		\$	
0140	20275EC		VIDEO DETECTION-INSTALL	14.00	EACH		\$	
0150	20390NS835		INSTALL COORDINATING UNIT	3.00	EACH		\$	
0160	21743NN		INSTALL PEDESTRIAN DETECTOR	4.00	EACH		\$	
0170	23157EN		TRAFFIC SIGNAL POLE BASE	71.00	CUYD		\$	
0180	23235EC		INSTALL PEDESTAL POST	2.00	EACH		\$	
0190	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	28.00	LF		\$	
0200	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	100.00	LF		\$	
0210	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	3.00	EACH		\$	
0220	24955ED		REMOVE SIGNAL EQUIPMENT (BULLITT KY 61 @ KY 245)	1.00	EACH		\$	

#### Section: 0003 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0230	02569		DEMOBILIZATION	1.00	LS		\$	