



**CALL NO. 408**

**CONTRACT ID. 224202**

**JEFFERSON - OLDHAM COUNTIES**

**FED/STATE PROJECT NUMBER 121GR22T018-FE04**

**DESCRIPTION VARIOUS ROUTES IN JEFFERSON AND OLDHAM COUNTIES**

**WORK TYPE SIGNS-LIGHTING-SIGNALS**

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

**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.**

## TABLE OF CONTENTS

PART I	SCOPE OF WORK
	<ul style="list-style-type: none"><li>• PROJECT(S), COMPLETION DATE(S), &amp; LIQUIDATED DAMAGES</li><li>• CONTRACT NOTES</li><li>• STATE CONTRACT NOTES</li><li>• LIQUIDATED DAMAGES</li><li>• WASTE AND BORROW SITES</li><li>• COORDINATION OF WORK WITH OTHER CONTRACTS</li><li>• TRAFFIC CONTROL PLAN</li><li>• UTILITY IMPACT &amp; RAIL CERTIFICATION NOTES</li><li>• MATERIAL SUMMARY</li><li>• DETAIL SHEET(S)</li></ul>
PART II	SPECIFICATIONS AND STANDARD DRAWINGS
	<ul style="list-style-type: none"><li>• SPECIFICATIONS REFERENCE</li><li>• SUPPLEMENTAL SPECIFICATION</li></ul>
PART III	EMPLOYMENT, WAGE AND RECORD REQUIREMENTS
	<ul style="list-style-type: none"><li>• LABOR AND WAGE REQUIREMENTS</li><li>• EXECUTIVE BRANCH CODE OF ETHICS</li><li>• KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY / STATE</li><li>• PROJECT WAGE RATES / STATE FUNDED</li></ul>
PART IV	INSURANCE
PART V	BID ITEMS

**PART I**  
**SCOPE OF WORK**

## ADMINISTRATIVE DISTRICT - 05

**CONTRACT ID - 224202**

**121GR22T018-FE04**

**COUNTY - JEFFERSON**

**PCN - 0505600712201**

**FE04 056 0071 001-002**

INTERSTATE 71 SOUTHBOUND (I-71 SB) (MP 1.720) SIGNALIZATION OF THE INTERSECTION OF I-71 SB & ZORN AVE (MP 1.820), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS

GEOGRAPHIC COORDINATES LATITUDE 38:16:31.00 LONGITUDE 85:41:51.00

ADT 15,361

**COUNTY - OLDHAM**

**PCN - 0509300712201**

**FE04 093 0071 018-019**

INTERSTATE 71 NORTHBOUND (I-71 NB) (MP 18.450) SIGNALIZATION OF THE INTERSECTION OF I-71 NB & KY 393 (MP 18.550), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS

GEOGRAPHIC COORDINATES LATITUDE 38:22:21.00 LONGITUDE 85:25:37.00

ADT 3,886

**PCN - 05093329B2201**

**FE04 093 329B 001-002**

VETERANS MEMORIAL PARKWAY (KY 329B) (MP 1.060) SIGNALIZATION OF THE INTERSECTION OF KY 329B & KENWOOD ELEMENTARY ENTRANCE (MP 1.160), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS

GEOGRAPHIC COORDINATES LATITUDE 38:20:06.00 LONGITUDE 85:28:25.00

ADT 11,847

**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 May 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:

Friday May 27	– Monday May 30, 2022	Memorial Day Weekend
Friday July 2	– Monday July 4, 2022	Independence day Weekend
Friday Sept. 2	– Monday Sept. 5, 2022	Labor Day Weekend
Wednesday Nov. 23	– Monday Nov. 28, 2022	Thanksgiving Weekend

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.



Traffic Control Plan  
Page 2 of 10

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 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

Traffic Control Plan  
Page 3 of 10

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**

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

Traffic Control Plan  
Page 4 of 10

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.

## **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 MARKINGS**

If there is to be a deviation from the existing striping plan, the Engineer will furnish the Contractor a striping plan prior to placement of the final surface course. Install Temporary Striping according to Section 112 with the following exceptions:

1. Include edge lines in Temporary Striping; and
2. Place Temporary or Permanent Striping before opening a lane to traffic; and
3. If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course, use an approved removable lane tape; however, the Department will not measure removable lane tape for separate payment, but will measure and pay for removable lane tape as temporary striping.

## **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:

Traffic Control Plan  
Page 5 of 10

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.

Traffic Control Plan  
Page 6 of 10

## 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)

## Traffic Control Plan Page 7 of 10

### 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

Traffic Control Plan  
 Page 8 of 10

**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

Traffic Control Plan  
Page 9 of 10

**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



Traffic Control Plan  
Page 10 of 10

**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

**Jefferson County**  
**FE04 056 0071 001-002**  
**Signalization of I-71 SB @ Zorn Ave**

*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

**Jefferson County  
FE04 056 0071 001-002  
Signalization of I-71 SB @ Zorn Ave**

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. All Points Broadband 148 Citizens Blvd Simpsonville, KY 40067  <b>Facility Map Requests to Rich &amp; Vince</b>		Rich Soutar (502) 390-6806 <a href="mailto:RSoutar@allpointsbroadband.com">RSoutar@allpointsbroadband.com</a>  Vince West <a href="mailto:VWest@allpointsbroadband.com">VWest@allpointsbroadband.com</a>
2. Atmos Energy 105 Hudson Blvd Shelbyville, KY 40065		Jake Basham Cell (270) 779-7381 <a href="mailto:Jake.Basham@atmosenergy.com">Jake.Basham@atmosenergy.com</a>  Silas Bohlen Cell (270) 570-0445 <a href="mailto:Silas.Bohlen@atmosenergy.com">Silas.Bohlen@atmosenergy.com</a>
3. 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>
4. AT&T Legacy 7555 E. Pleasant Valley Road, Suite 140 Independence, OH 44131		Mike Diederich Office (216) 750-0135 Cell (216) 212-8556 <a href="mailto:MD4145@att.com">MD4145@att.com</a>  Don Garr Cell (502) 741-8374 <a href="mailto:DonGarr@outlook.com">DonGarr@outlook.com</a>

## UTILITIES AND RAIL CERTIFICATION NOTE

**Jefferson County**  
**FE04 056 0071 001-002**  
**Signalization of I-71 SB @ Zorn Ave**

**5. Boardwalk Pipelines (See Texas Gas Transmission, LLC)**

6. Center Point Energy  
2520 Lincoln Drive  
Clarksville, Indiana 47129

Jeff Donnelly, Transmission Department  
Office (812) 431-5670  
[Jeff.Donnelly@centerpointenergy.com](mailto:Jeff.Donnelly@centerpointenergy.com)  
Chris Wood, Engineering Manager

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

8. 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)

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

[SBiven@taylorsvillewater.org](mailto:SBiven@taylorsvillewater.org)

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

Lisa Clark, Fiber Construction Manager  
(810) 223-3780

[Lisa.Clark@crowncastle.com](mailto:Lisa.Clark@crowncastle.com)

Mona Couch, Tower Manager  
Office (317) 249-2029,  
Cell (317) 439-1578

[Mona.Couch@crowncastle.com](mailto:Mona.Couch@crowncastle.com)

## UTILITIES AND RAIL CERTIFICATION NOTE

**Jefferson County**  
**FE04 056 0071 001-002**  
**Signalization of I-71 SB @ Zorn Ave**

**Facility Map Requests to**  
Construction

Craig Brown, Manager-Network

**Lisa & Craig**  
8342

Office (317) 819-8648, Cell (585) 402-

[Craig.Brown@crowncastle.com](mailto:Craig.Brown@crowncastle.com)

11. Crown Castle Fiber  
3310 Ruckreigel Parkway  
Jeffersontown, KY 40299

Lisa Clark, Construction Manager  
(810) 223-3780

[Lisa.Clark@crowncastle.com](mailto:Lisa.Clark@crowncastle.com)

Craig Brown, Manager-Network  
Office (317) 819-8648,  
Cell (585) 402-8342

[Craig.Brown@crowncastle.com](mailto:Craig.Brown@crowncastle.com)

**12. Energy Transfer (See Mid-Valley Pipeline Company)**

**13. Fibertech (See Crown Castle Network Operation)**

**14. Indiana Gas Company Inc. (See Center Point Energy)**

**15. Insight Cablevision (See Charter Communications)**

16. Indiana Utilities Corporation  
123 West Chestnut Street  
Corydon, Indiana 47112

Scott Schmitt  
Office (812) 738-3235  
Cell (812) 972-0539

[ScottS@indianautilitiescorp.com](mailto:ScottS@indianautilitiescorp.com)

Corey Thatcher, Field Technician  
Office (812) 738-3235  
Cell (812) 267-6936

[CoreyT@indianautilitiescorp.com](mailto:CoreyT@indianautilitiescorp.com)

Kevin Kinney  
Ron Timberlake

17. Intercarrier Networks, LLC  
Subsidiary of Great Plains Communications  
1600 Great Plains Center  
PO Box 500  
Blair, NE 68008

[CWulf@gpcom.com](mailto:CWulf@gpcom.com)

Nancye Allison, Consultant  
Office (859) 231-9831  
Cell (502) 541-3442

[N.Allison@finleyusa.com](mailto:N.Allison@finleyusa.com)

Justin Walker, Consultant  
Office (859) 407-4163

Finley Engineering Company, Inc.

## UTILITIES AND RAIL CERTIFICATION NOTE

**Jefferson County**  
**FE04 056 0071 001-002**  
**Signalization of I-71 SB @ Zorn Ave**

2456 Fortune Drive, Suite 105  
Lexington, KY 40509

[J.Walker@finleyusa.com](mailto:J.Walker@finleyusa.com)

18. Jefferson County Public Schools (JCPS)  
C B Young  
Building 6  
3001 Crittenden Drive  
Louisville, KY 40209

Jeff Hardy  
Office (502) 485-7975  
Cell (502) 379-9315  
[Jeff.Hardy@Jefferson.kyschools.us](mailto:Jeff.Hardy@Jefferson.kyschools.us)  
[JDHardy70@gmail.com](mailto:JDHardy70@gmail.com)

Scott McMahan (Team Fishel)  
Office (502) 456-2900  
Cell (502) 664-9312

### 19. Kentucky Data Link (See Windstream)

20. 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)

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

21. 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)

22. 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)

## UTILITIES AND RAIL CERTIFICATION NOTE

**Jefferson County  
FE04 056 0071 001-002  
Signalization of I-71 SB @ Zorn Ave**

**23. Level 3 (See Lumen Technologies Inc.)**

**24. Lighttower (See Crown Castle Network Operation)**

25. Louisville Water Company  
550 South Third Street  
Louisville, KY 40202

Pat Howard, PE  
Office (502) 569-3615  
Cell (502) 287-7568  
[PHoward@lwcky.com](mailto:PHoward@lwcky.com)

**Facility Map Requests to [LWCGISProducts@lwcky.com](mailto:LWCGISProducts@lwcky.com)**

26. Lumen Technologies Inc.  
Implementation Program Mgr.  
260 Winn Ave  
Winchester, KY 40391

John Pellegrino, Sr. Network  
  
Office (215) 888-9753  
[John.Pellegrino@lumen.com](mailto:John.Pellegrino@lumen.com)  
Jim Trapnell, Field Operations  
Cell (859) 806-5833  
[Jim.Trapnell@lumen.com](mailto:Jim.Trapnell@lumen.com)  
Kevin Webster, Field Operations

Lumen Technologies Inc.  
848 S. 8th Street  
Louisville, KY 40203

Office (502) 777-8622  
[Kevin.Webster@lumen.com](mailto:Kevin.Webster@lumen.com)  
Tim Hill, Relocation Project Manager  
Cell (765) 230-7284  
[Tim.W.Hill@lumen.com](mailto:Tim.W.Hill@lumen.com)

**27. MCI (See Verizon)**

28. 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)

**Facility Map Requests to Dennis & Austin**

Aron Velasquez  
Office (419) 421-3704

## UTILITIES AND RAIL CERTIFICATION NOTE

**Jefferson County**  
**FE04 056 0071 001-002**  
**Signalization of I-71 SB @ Zorn Ave**

[AdVelasquez@marathonpetroleum.com](mailto:AdVelasquez@marathonpetroleum.com)

**29. Metro Network (See Lumen Technologies Inc.)**

30. Metropolitan Sewer District  
700 West Liberty Street  
Louisville, KY 40203-1911

Brandon Flaherty  
Office (502) 540-6632  
Cell (502) 381-0804  
[Brandon.Flaherty@LouisvilleMSD.org](mailto:Brandon.Flaherty@LouisvilleMSD.org)  
Greg Powell  
[Greg.Powell@LouisvilleMSD.org](mailto:Greg.Powell@LouisvilleMSD.org)

31. 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)

Operations

Andy Wyderka, Mgr.-Pipeline

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

**Facility Map Requests to Todd, Justin, Bobby &**

**Andrew**

**32. National Fiber Optic Longhaul (See Lumen Technologies Inc.)**

**33. Ohio River Pipeline Corporation (See Center Point Energy)**

**34. Oldham County Environmental Authority (OECA, Sewer) (See MSD - Contacts pending 8/2020)**

**35. Quest Communication (See Lumen Technologies Inc.)**



## UTILITIES AND RAIL CERTIFICATION NOTE

<p><b>Jefferson County</b> <b>FE04 056 0071 001-002</b> <b>Signalization of I-71 SB @ Zorn Ave</b></p>
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36. Shelby Energy Cooperative  
PO Box 311  
620 Old Finchville Road  
Shelbyville, KY 40065

Jason Ginn  
Cell (502) 643-2778  
[Jason@ShelbyEnergy.com](mailto:Jason@ShelbyEnergy.com)

**37. Shelby Broadband (See All Points Broadband)**

**38. Spectrum (See Charter Communications)**

39. Sprint - Fiber Optics  
11370 Enterprise Park Drive  
Sharonville, OH 45241

Steven T. Hughes  
Office (513) 459-5796  
Cell (513) 462-7221  
[Steven.Hughes@sprint.com](mailto:Steven.Hughes@sprint.com)

**40. SunocoLogistics (See Mid-Valley Pipeline Company)**

41. Texas Gas Transmission, LLC  
2332 Hwy 60 West  
Hardinsburg, KY 40143  
610 W 2nd Street  
PO Box 20008  
Owensboro, KY 42301

Howard K. Menser Jr., Area Manager  
Office (502) 491-0251  
Cell (502) 396-2418  
[Howard.Menser@bwpipelines.com](mailto:Howard.Menser@bwpipelines.com)  
Kevin Carman  
Cell (270) 779-3893  
[Kevin.Carman@bwpmlp.com](mailto:Kevin.Carman@bwpmlp.com)

10327 Gaslight Way  
Louisville, KY 40299

Amanda Isom  
(270) 688-5854  
(270) 231-7629

**Facility Map Requests to Kevin/Amanda/Thomas**

[Amanda.Isom@bwpmlp.com](mailto:Amanda.Isom@bwpmlp.com)

**42. Time Warner (See Charter Communications)**

43. TRIMARC  
Public Safety & Transportation Systems  
901 West Main Street  
Louisville, KY 40202

Todd Hood  
Office (502) 290-7201  
Cell (270) 307-7456  
[Todd.Hood@ngc.com](mailto:Todd.Hood@ngc.com)

## UTILITIES AND RAIL CERTIFICATION NOTE

**Jefferson County  
FE04 056 0071 001-002  
Signalization of I-71 SB @ Zorn Ave**

### 44. Vectren Energy Delivery of Indiana, Inc. (See Center Point Energy)

45. Verizon  
730 West Henry Street  
Indianapolis, IN 46225

Dean Boyers  
Office (615) 777-7855  
Cell (615) 507-5287

[Dean.Boyers@verizon.com](mailto:Dean.Boyers@verizon.com)

Verizon  
Ops  
2421 Holloway Road  
Louisville, KY 40299

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 &

Ops

Cell (502) 780-2748

[Ronald.Kuerzi@verizon.com](mailto:Ronald.Kuerzi@verizon.com)

### 46. W.U. TEL (See Verizon)

47. Windstream  
111 S. Main Street  
Elizabethtown, KY 42701

James Galvin  
Office (270) 765-1818  
Cell (270) 748-9249

[James.Galvin@windstream.com](mailto:James.Galvin@windstream.com)

Windstream

Steve Johnson, Sr. Engineer OSP

Steve Johnson, Sr. Engineer OSP  
130 W New Circle Road, Suite 170  
Lexington, KY 40505

Office (859) 357-6209  
Cell (859) 321-2035

[Steve.Johnson@windstream.com](mailto:Steve.Johnson@windstream.com)

48. Zayo  
9209 Castlegate Drive  
Indianapolis, IN 46256

Jeff Beggs  
Jeff.Beggs@zayo.com  
765-655-3870

## UTILITIES AND RAIL CERTIFICATION NOTE

**Oldham County**  
**FE04 093 329B 001-002 & FE04 093 0071 018-019**  
**Signalization of KY 329B @ Kenwood and I-71 NB @ KY 393**

*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.

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**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

**Oldham County**  
**FE04 093 329B 001-002 & FE04 093 0071 018-019**  
**Signalization of KY 329B @ Kenwood and I-71 NB @ KY 393**

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>
-------------------------------	---------------------	----------------------------

## Oldham County, KY

- |   |  |  |
|---|--|--|
| 1. All Points Broadband<br>148 Citizens Blvd<br>Simpsonville, KY 40067                  |  | DJ Anderson, Regional Operations<br>(502) 390-6806<br><a href="mailto:DAnderson@allpointsbroadband.com">DAnderson@allpointsbroadband.com</a>   |
| 2. AT&T KY<br>1340 E. John Rowan Blvd<br>Bardstown, KY 40004                            |  | Scott Roche<br>Office (502) 348-4528<br>Cell (502) 827-4703<br><a href="mailto:SR8832@att.com">SR8832@att.com</a>  |
| 3. <b>Boardwalk Pipelines (See Texas Gas Transmission, LLC)</b>                         |  |  |
| 4. Center Point Energy<br>2520 Lincoln Drive<br>Clarksville, Indiana 47129              |  | Jeff Donnelly, Transmission Department<br>Office (812) 431-5670<br><a href="mailto:Jeff.Donnelly@centerpointenergy.com">Jeff.Donnelly@centerpointenergy.com</a><br>Chris Wood, Engineering Manager |
| 5. <b>CenturyLink Communications, LLC (See Lumen Technologies Inc.)</b>                 |  |  |
| 6. Charter Communications<br>10168 Linn Station Road, Suite 120<br>Louisville, KY 40223 |  | Kevin Mercer<br>Office (502) 357-4724<br>Cell (502) 817-5055<br><br><a href="mailto:Kevin.Mercer@charter.com">Kevin.Mercer@charter.com</a>   |

## UTILITIES AND RAIL CERTIFICATION NOTE

**Oldham County**  
**FE04 093 329B 001-002 & FE04 093 0071 018-019**  
**Signalization of KY 329B @ Kenwood and I-71 NB @ KY 393**

Michael York  
Cell (502) 548-1632  
[Michael.York@charter.com](mailto:Michael.York@charter.com)

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

Lisa Clark, Construction Manager  
(810) 223-3780  
[Lisa.Clark@crowncastle.com](mailto:Lisa.Clark@crowncastle.com)

Mona Couch  
Office (317) 249-2029,  
Cell (317) 439-1578  
[Mona.Couch@crowncastle.com](mailto:Mona.Couch@crowncastle.com)

8. 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)

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

9. LaGrange Utilities Commission  
412 East Jefferson Street  
LaGrange, KY 40031

Scot Treece, Director  
Office (502) 222-9325  
Cell (502) 667-0342  
[LUCDirector@gmail.com](mailto:LUCDirector@gmail.com)

10. LG&E KU (Electric)  
820 West Broadway  
Louisville, KY 40202  
LG&E Emergency Number (502) 589-1444

Caroline Justice  
Office (502) 627-3708  
[Caroline.Justice@LGE-KU.com](mailto:Caroline.Justice@LGE-KU.com)

## UTILITIES AND RAIL CERTIFICATION NOTE

**Oldham County**  
**FE04 093 329B 001-002 & FE04 093 0071 018-019**  
**Signalization of KY 329B @ Kenwood and I-71 NB @ KY 393**

LG&E and KU Emergency Number 1-800-331-7370

**11. 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)

**12. Level 3 (See Lumen Technologies Inc.)**

**13. Lighttower (See Crown Castle Network Operation)**

**14. 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

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)

**Facility Map Requests to** [relocations@lumen.com](mailto:relocations@lumen.com) / Jim

**10/13/20, all utility relocation/conflicts inquiries and road project notifications to**

[relocations@lumen.com](mailto:relocations@lumen.com)

**15. MCI (See Verizon)**

**16. Metro Network (See Lumen Technologies Inc.)**

**17. Metropolitan Sewer District**

700 West Liberty Street

Louisville, KY 40203-1911

Brandon Flaherty

Office (502) 540-6632

Cell (502) 381-0804

[Brandon.Flaherty@LouisvilleMSD.org](mailto:Brandon.Flaherty@LouisvilleMSD.org)

Greg Powell

[Greg.Powell@LouisvilleMSD.org](mailto:Greg.Powell@LouisvilleMSD.org)

## UTILITIES AND RAIL CERTIFICATION NOTE

**Oldham County**  
**FE04 093 329B 001-002 & FE04 093 0071 018-019**  
**Signalization of KY 329B @ Kenwood and I-71 NB @ KY 393**

18. 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)

19. Oldham County Water District  
2160 Spencer Court  
La Grange, KY 40031

Russ Rose  
Office (502) 222-1690  
Cell (502) 727-4350  
[RRose@oldhamcountywater.com](mailto:RRose@oldhamcountywater.com)

20. Shelby Energy Cooperative  
PO Box 311  
620 Old Finchville Road  
Shelbyville, KY 40065

Jason Ginn  
Cell (502) 643-2778  
[Jason@ShelbyEnergy.com](mailto:Jason@ShelbyEnergy.com)  
Zach Mischler  
(502) 633-4420  
[Zach@shelbyenergy.com](mailto:Zach@shelbyenergy.com)

**Facility Map Requests to Jason/Zach**

21. Texas Gas Transmission, LLC  
2332 Hwy 60 West  
Hardinsburg, KY 40143  
610 W 2nd Street  
PO Box 20008  
Owensboro, KY 42301

Howard K. Menser Jr., Area Manager  
Office (502) 491-0251  
Cell (502) 396-2418  
[Howard.Menser@bwpipelines.com](mailto:Howard.Menser@bwpipelines.com)  
Kevin Carman  
Cell (270) 779-3893  
[Kevin.Carman@bwpmlp.com](mailto:Kevin.Carman@bwpmlp.com)

10327 Gaslight Way  
Louisville, KY 40299

Amanda Isom  
(270) 688-5854  
(270) 231-7629  
[Amanda.Isom@bwpmlp.com](mailto:Amanda.Isom@bwpmlp.com)

**Facility Map Requests to Kevin/Amanda/Thomas**

## UTILITIES AND RAIL CERTIFICATION NOTE

**Oldham County**  
**FE04 093 329B 001-002 & FE04 093 0071 018-019**  
**Signalization of KY 329B @ Kenwood and I-71 NB @ KY 393**

22. TRIMARC  
Public Safety & Transportation Systems  
901 West Main Street  
Louisville, KY 40202

Todd Hood  
Office (502) 290-7201  
Cell (270) 307-7456  
[Todd.Hood@ngc.com](mailto:Todd.Hood@ngc.com)

23. Verizon  
730 West Henry Street  
Indianapolis, IN 46225

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 &

Verizon  
Ops  
2421 Holloway Road  
Louisville, KY 40299

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)

24. Windstream  
111 S. Main Street  
Elizabethtown, KY 42701

James Galvin  
Office (270) 765-1818  
Cell (270) 748-9249  
[James.Galvin@windstream.com](mailto:James.Galvin@windstream.com)

Steve Johnson, Sr. Engineer OSP

Steve Johnson, Sr. Engineer OSP  
130 W New Circle Road, Suite 170  
Lexington, KY 40505

Office (859) 357-6209  
Cell (859) 321-2035  
[Steve.Johnson@windstream.com](mailto:Steve.Johnson@windstream.com)



# MATERIAL SUMMARY

**CONTRACT ID: 224202**

**121GR22T018-FE04**

**0505600712201**

INTERSTATE 71 SOUTHBOUND (I-71 SB) SIGNALIZATION OF THE INTERSECTION OF I-71 SB & ZORN AVE  
SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02562	TEMPORARY SIGNS	183.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC - (JEFFERSON I-71 SB @ Zorn)	1.00	LS
0015	02775	ARROW PANEL	3.00	EACH
0020	04844	CABLE-NO. 14/5C	517.00	LF
0025	04845	CABLE-NO. 14/7C	466.00	LF
0030	04886	MESSENGER-15400 LB	465.00	LF
0035	04932	INSTALL STEEL STRAIN POLE	4.00	EACH
0040	20188NS835	INSTALL LED SIGNAL-3 SECTION	6.00	EACH
0045	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
0050	20275EC	VIDEO DETECTION-INSTALL	2.00	EACH
0055	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0060	23157EN	TRAFFIC SIGNAL POLE BASE	18.00	CUYD
0065	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
0070	06407	SBM ALUM SHEET SIGNS .125 IN	32.00	SQFT
0075	21373ND	REMOVE SIGN	5.00	EACH
0080	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 224202**

**121GR22T018-FE04**

**0509300712201**

INTERSTATE 71 NORTHBOUND (I-71 NB) SIGNALIZATION OF THE INTERSECTION OF I-71 NB & KY 393 SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0085	02562	TEMPORARY SIGNS	183.00	SQFT
0090	02650	MAINTAIN & CONTROL TRAFFIC - (OLDHAM I-71 NB @ KY 393)	1.00	LS
0095	02775	ARROW PANEL	3.00	EACH
0100	04740	POLE BASE	1.00	EACH
0105	04793	CONDUIT-1 1/4 IN	223.00	LF
0110	04811	ELECTRICAL JUNCTION BOX TYPE B	1.00	EACH
0115	04820	TRENCHING AND BACKFILLING	133.00	LF
0120	04844	CABLE-NO. 14/5C	470.00	LF
0125	04845	CABLE-NO. 14/7C	116.00	LF
0130	04886	MESSENGER-15400 LB	271.00	LF
0135	04932	INSTALL STEEL STRAIN POLE	3.00	EACH
0140	20188NS835	INSTALL LED SIGNAL-3 SECTION	7.00	EACH
0145	20266ES835	INSTALL LED SIGNAL- 4 SECTION	1.00	EACH
0150	20275EC	VIDEO DETECTION-INSTALL	4.00	EACH
0155	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0160	21543EN	BORE AND JACK CONDUIT	100.00	LF
0165	22939ND	INSTALL LUMINAIRE POLE	1.00	EACH
0170	23157EN	TRAFFIC SIGNAL POLE BASE	12.40	CUYD
0175	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	40.00	LF
0180	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
0185	06407	SBM ALUM SHEET SIGNS .125 IN	48.00	SQFT
0190	06411	STEEL POST TYPE 2	16.00	LF
0195	21373ND	REMOVE SIGN	3.00	EACH
0200	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 224202**

**121GR22T018-FE04**

**05093329B2201**

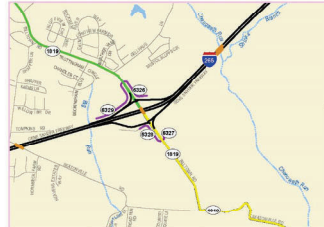
VETERANS MEMORIAL PARKWAY (KY 329B) SIGNALIZATION OF THE INTERSECTION OF KY 329B & KENWOOD ELEMENTARY ENTRANCE SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0205	02562	TEMPORARY SIGNS	183.00	SQFT
0210	02650	MAINTAIN & CONTROL TRAFFIC - (OLDHAM KY 329B @ KENWOOD)	1.00	LS
0215	02775	ARROW PANEL	3.00	EACH
0220	04793	CONDUIT-1 1/4 IN	10.00	LF
0225	04844	CABLE-NO. 14/5C	625.00	LF
0230	04845	CABLE-NO. 14/7C	300.00	LF
0235	04885	MESSENGER-10800 LB	313.00	LF
0240	04932	INSTALL STEEL STRAIN POLE	4.00	EACH
0245	20188NS835	INSTALL LED SIGNAL-3 SECTION	7.00	EACH
0250	20275EC	VIDEO DETECTION-INSTALL	1.00	EACH
0255	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0260	23157EN	TRAFFIC SIGNAL POLE BASE	15.50	CUYD
0265	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	40.00	LF
0270	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
0275	21373ND	REMOVE SIGN	1.00	EACH
0280	02569	DEMOBILIZATION	1.00	LS

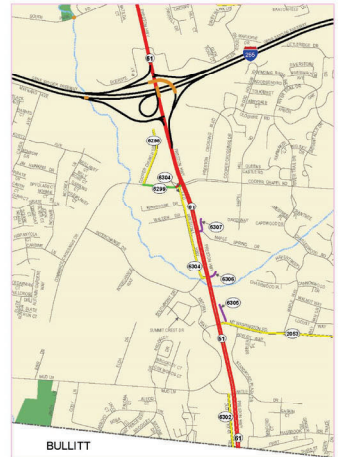


DOWNTOWN LOUISVILLE

2,000 1,000 0 2,000 4,000 6,000 Feet



I-265/ KY-1819 INTERSECTION



I-265/ KY-61 INTERSECTION

2,000 1,000 0 0.25 2,000 0 Miles 4,000 Feet

I-71 @ Zorn Ave

INDIANA

INDIANA

OLDHAM

SHELBY

SPENCER

BULLITT

HARDIN

- State Primary Road System**
- Interstate
  - Parkway
  - Other State Primary
  - State Secondary
  - Rural Secondary
  - Supplemental Road
  - Unimproved
  - Paved or Concrete
  - Bridge
  - Railroad
  - Stream
  - City/Town
  - Incorporated Area
  - Lake
  - State Park
  - National Park or Recreation Area
  - Defense Facility
  - Wildlife Area
  - Geological Area
  - State, National, or Private Forest

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**Kentucky**  
UNBRIDLED SPIRIT  
Division of Planning  
**State Primary Road System**  
**JEFFERSON COUNTY**

2 1 0 2 4 Miles

Last map revision: DECEMBER 2018  
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: Jefferson

Description: I-71 SB @ Zorn Avenue

Cabinets	Master code	
1	T-01-0010	Pole Mounted 336 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)
5	T-01-0700	Load Switches

Signals		
6	T-02-0009	Siemens 3 Section Signal
6	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
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
6	T-02-0330	LED Module 12" red ball
6	T-02-0340	LED Module 12" yellow ball
6	T-02-0350	LED Module 12" green ball

Special items			
2		Video Detection System Camera Detector, SP	1
1	T-02-0504	Router (this includes power supply/antenna/cabling)	
1	T-02-0641	Mast arm mount signal bracket (4 section)	

Poles		
1	T-04-0020	Steel Strain Pole 30 foot
1	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 \_\_\_\_\_



**TRAFFIC SIGNAL ESTIMATE OF QUANTITIES**

TOTAL	UNITS	CODE	ITEM DESCRIPTION
183	SO FT	2562	SIGNS
1	LP SUM	2569	DEMOLITION
1	LP SUM	2650	MAINTAIN & CONTROL TRAFFIC
3	EACH	2775	FLASHING ARROW
517	LIN FT	4844	CABLE-NO. 14/5C
466	LIN FT	4844	CABLE-NO. 14/7C
465	LIN FT	4886	MESSENGER-15400 LB
4	EACH	4932	INSTALL STEEL STRAIN POLE
32	SO FT	6407	58M ALUM SHEET SIGNS .125 IN
6	EACH	20188NS835	INSTALL SIGNAL-3 SECTION LED
2	EACH	20266ES835	INSTALL SIGNAL-4 SECTION LED
1	EACH	20390NS835	INSTALL COORDINATING UNIT
2	EACH	20275EC	VIDEO DETECTION - INSTALL
5	EACH	21373MD	REMOVE SIGN
18.0	CU YD	23137EN	TRAFFIC SIGNAL POLE BASE
1	EACH	24908EC	INSTALL SIGNAL CONTROLLER-TV ATC

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 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 KYTC'S DIVISION OF EQUIPMENT WAREHOUSE (1739 WILKINSON BOULEVARD, FRANKFORT, KY 40622), THE VIDEO CAMERA DETECTION SYSTEM SHALL BE PICKED UP FROM KYTC DISTRICT 5 TRAFFIC SHOP (1517 DURRETT LANE, LOUISVILLE, KY 40213). DAVID.HUBER@KY.GOV, 502-550-0803).

THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR MATERIAL RELEASE. FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE MATERIALS UPON ARRIVAL.

1. 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 WITH THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (5502-782-5540/502-782-5536) OR EMAIL (TED.SWANSEGAR@KY.GOV/KERRY.ROBERTS@KY.GOV).
2. 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@KY.GOV AND SHALL NOTIFY THE WAREHOUSE BY PHONE (502-782-5540) TO ARRANGE PICK UP.
3. CONTRACTOR SHALL ALSO CONTACT THE SIGNAL SYSTEM BRANCH OF THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (502-782-5543/502-782-5547) OR EMAIL (JOE.THOMPSON@KY.GOV/LARRY.IRISH@KY.GOV) AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL TO FACILITATE PROGRAMMING OF ROUTERS.
4. 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 835.15; 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 REQUIRE INSTALLATION OF SPECIFIED VIDEO CAMERA, VIDEO MODULES, OR MOUNTING BRACKET AS 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 ALSO NOT MEASURE CONNECTING THE INDUCTION LOOP AMP/IFIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL 400 MODEM CARD 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 03.02 POLES AND BASES INSTALLATION, B) REVISION: REPLACE ENTIRE TABLE WITH THE FOLLOWING:

MAXIMUM SERVICE FORCES	DIAMETER (IN.)	DEPTH (FEET)				VERTICAL BARS TOTAL	TIES OR SPIRAL BAR SIZE	SPACING OR PITCH (IN.)
		< 2:1 GROUND SLOPE	SOIL	ROCK	2:1 GROUND SLOPE			
0-9.9	36	6	6	6.5	6	13	#8	12
10-19.9	36	6	6	6.5	6	13	#8	12
20-29.9	36	6	6	6.5	6	13	#8	12
30-39.9	36	6	6	6.5	6	13	#8	12
40-49.9	36	6	6	6.5	6	13	#8	12
50-59.9	36	6	6	6.5	6	13	#8	12
60-69.9	36	6	6	6.5	6	13	#8	12
70-79.9	36	6	6	6.5	6	13	#8	12
80-89.9	36	6	6	6.5	6	13	#8	12
90-99.9	36	6	6	6.5	6	13	#8	12
100-149.9	36	6	6	6.5	6	13	#8	12
150-199.9	36	6	6	6.5	6	13	#8	12
200-249.9	36	6	6	6.5	6	13	#8	12
250-299.9	36	6	6	6.5	6	13	#8	12
300-349.9	36	6	6	6.5	6	13	#8	12
350-399.9	36	6	6	6.5	6	13	#8	12
400-449.9	42	7.5	7.5	7.5	7.5	19	#8	12
450-499.9	42	7.5	7.5	7.5	7.5	19	#8	12
500-600	48	7.5	7.5	7.5	7.5	19	#8	12

MATERIAL NOTES THAT ARE CONTRARY TO SECTION 835 -

SUBSECTION: 835.21 WARNING TAPE.

REVISION: REPLACE FIRST SENTENCE WITH THE FOLLOWING IN 834.32: PROVIDE DETECTABLE TYPE TAPE THAT IS 6 INCHES WIDE AND 7.0 MILS (NOMINAL) THICK.

4-13-2020



DRAWING TITLE: SIGNAL QUANTITIES

HORIZONTAL SCALE: NA

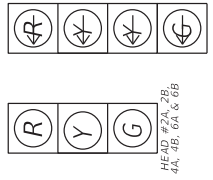
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 DATE PLOTTED: 9/17/2015 7:50:02 PM  
 SUBMITTAL DATE: 4/12/2022  
 DESIGNED BY: STANTEC  
 Lewis, Tony  
 Digitally signed by Lewis, Tony  
 Date: 2022.04.18 12:50:17-0400  
 COUNTY OF JEFFERSON  
 ITEM NO. TT  
 SHEET NO. 11







**SIGNAL HEADS**



ALL INDICATIONS L.E.D.  
ALL SIGNAL HEADS SHALL HAVE REFLECTIVE BACKPLATES

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF THE SIGNAL HEADS. 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 BE MADE OF A MINIMUM OF TWO SECTIONS. SECTIONS SHALL BE CONNECTED USING SHIM BOLTS. THE MESSENGER CABLE SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

**WIRING SCHEDULE**

CABLE	ORIGIN	ENDING	CONNECTING
1-# 14/5C	CONTROLLER	SH 2B	SH 2A & 2B
1-# 14/5C	CONTROLLER	SH 4B	SH 4A & 4B
1-# 14/5C	CONTROLLER	SH 6A	SH 6A & 6B
1-# 14/7C	CONTROLLER	SH 5B	SH 5B

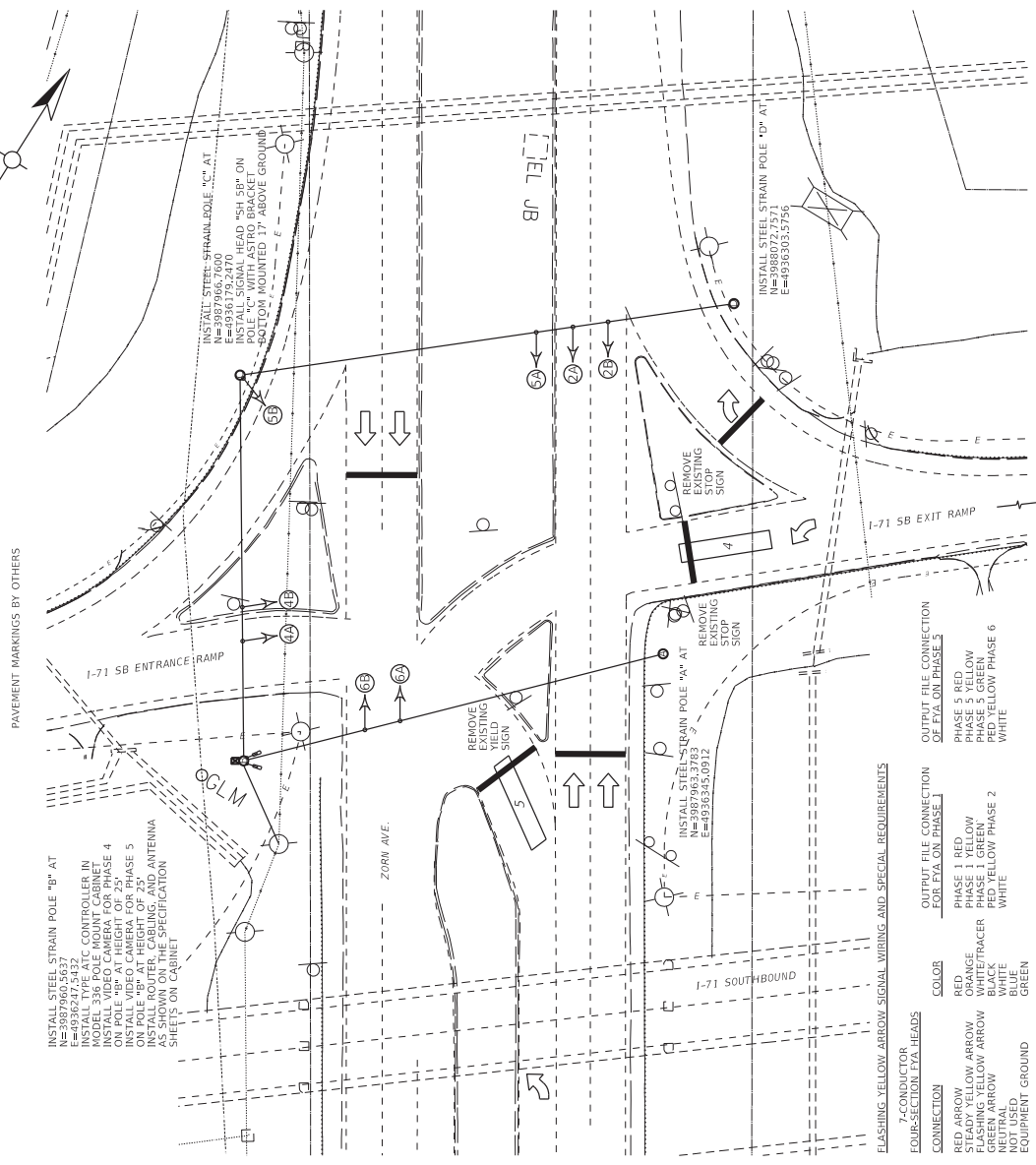
**WIRING NOTE FOR NEW SIGNAL HEADS:**

THE GREEN WIRE IN THE 5C/7C CABLE SHALL BE USED AS THE EQUIPMENT GROUND. USE THE BLACK WIRE IN THESE CABLES TO CONNECT TO ALL METAL ITEMS IN THE SYSTEM THAT CARRIES VOLTAGE. THIS SHALL BE INCIDENTAL TO THE PROJECT.

**STEEL STRAIN POLES**

POLE	HEIGHT	SPAN	ATT. HT.	CALC. SERV. MOMENT	SAG
A	32'	A-B	131.58 K-FT	5%	
B	34'	B-C	216.00 K-FT	5%	
C	34'	C-B	210.50 K-FT	5%	
D	30'	D-C	150.77 K-FT	5%	

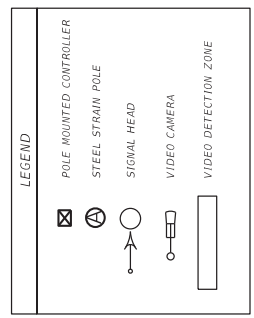
ALL MESSENGER IS 15,400 LB



**FLASHING YELLOW ARROW SIGNAL WIRING AND SPECIAL REQUIREMENTS**

CONNECTION	COLOR	OUTPUT FILE CONNECTION FOR FIA ON PHASE	OUTPUT FILE CONNECTION FOR FIA ON PHASE 3
RED ARROW	RED	PHASE 1 RED	PHASE 5 RED
STEADY YELLOW ARROW	ORANGE	PHASE 1 YELLOW	PHASE 5 YELLOW
FLASHING YELLOW ARROW	BLACK	PHASE 1 BLACK	PHASE 5 BLACK
NEUTRAL	WHITE	PHASE 1 WHITE	PHASE 5 WHITE
EQUIPMENT GROUND	GREEN	PHASE 1 GREEN	PHASE 5 GREEN

THE CONTRACTOR SHALL CONNECT THE CONNECTOR LABELED "PY 4PY 6PY 8PY" TO THE CORRESPONDING TERMINALS IN THE CABINET (STEVENS) ONLY HAVE 2 CONNECTORS WHICH SIMPLY NEED TO BE CONNECTED TOGETHER.



**DRAWING TITLE: I-71 SB @ ZORN AVE INTERCHANGE SIGNAL PLAN**

DATE PLOTTED: 3/7/2025 7:58:02 PM

FILE NAME: G:\17855821\TRANSPORTATION\DESIGN\DRAWINGS\CORR\_SIGNAL\_DESIGN.DWG

USER: krcasali

COMMITTEE OF JEFFERSON COUNTY

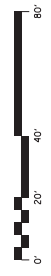


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

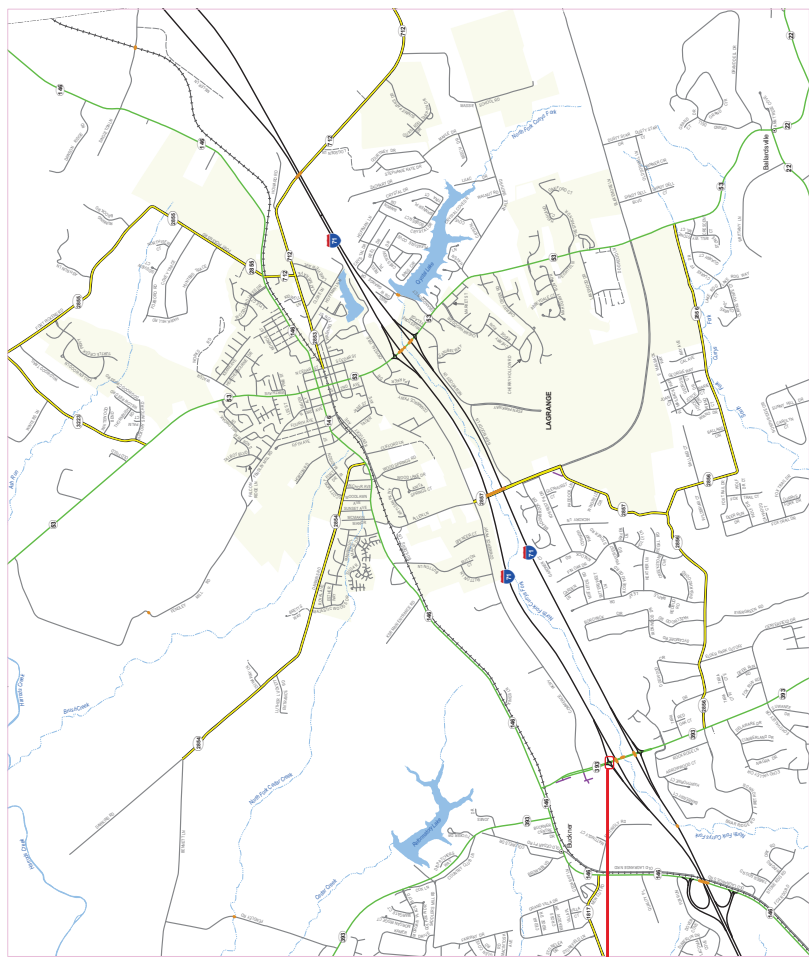


DESIGNED BY: STANTEC  
SUBMITTAL DATE: 4/12/2022

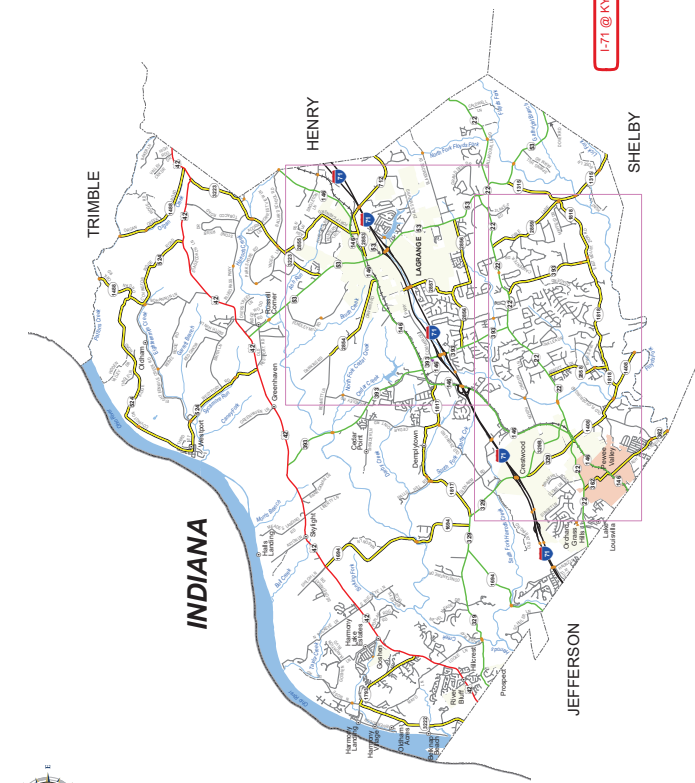
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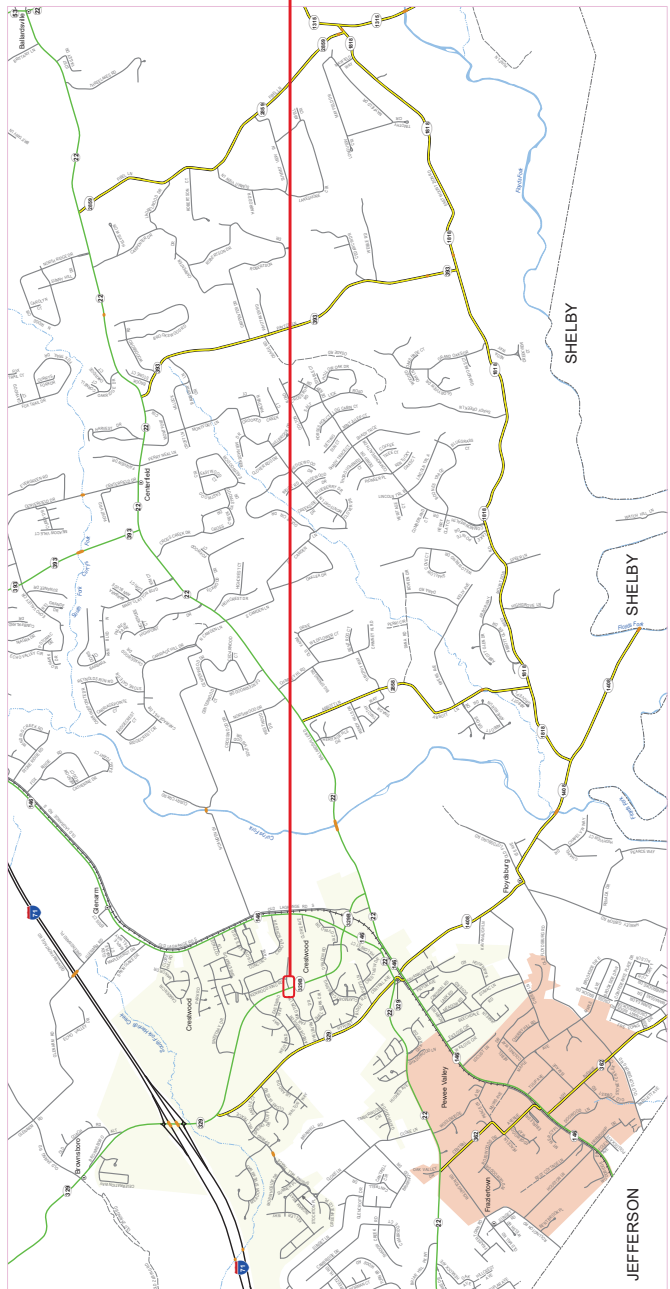
ITEM NO. 74  
SHEET NO. 74



LA GRANGE



I-71 @ KY 303



CRESTWOOD / PEWEE VALLEY

State Primary Road System	
	Interstate
	Parkway
	Other State Primary
	State Secondary
	Rural Secondary
	Supplemental Road
	Paved or Concrete
	Bridge
	Railroad
	Stream
	City/Town
	Incorporated Areas
	Other Incorporated Areas
	Lake
	National Park or Recreation Area
	Defense Facility
	Wildlife Area
	Geological Area
	State, National, or Private Forest



Division of Planning  
Last map revision: APRIL 2021  
Road centerlines collected using GPS technology  
Kentucky State Plane Coordinate System (NAD83)  
www.planning.kyc.ky.gov

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: Oldham

Description: I-71 NB @ KY 393

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)
5	T-01-0700	Load Switches

Signals		
7	T-02-0009	Siemens 3 Section Signal
7	T-02-0032	Siemen 3 section backplate
1	T-02-0033	Siemen 4 section 12" signal (poly)
1	T-02-0043	Siemen 4-sec. straight signal backplate
1	T-02-0300	LED Module 12" red arrow
2	T-02-0310	LED Module 12" yellow arrow
1	T-02-0320	LED Module 12" green arrow
7	T-02-0330	LED Module 12" red ball
7	T-02-0340	LED Module 12" yellow ball
7	T-02-0350	LED Module 12" green ball

Special items			
4		Video Detection System Camera Detector, SP	1
1	T-02-0504	Router (this includes power supply/antenna/cabling)	
1	T-02-0640	Mast arm mount signal bracket (3 section)	

Poles		
2	T-04-0020	Steel Strain Pole 30 foot
1	T-04-0040	Steel Strain Pole 34 foot
1	T-04-0150	Lighting Pole 30' w/no arm mongoose luminaire

Accessories		
1	T-06-0600	Transformer Base for Luminaire Poles w/o anchor bolts (See T-06-0601 for anchor bolts)
4	T-06-0601	Achor Bolts for Luminaire Poles

**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 SIGNAL ESTIMATE OF QUANTITIES**

TOTAL	UNITS	CODE	ITEM DESCRIPTION
183	SO FT	2562	SIGNS
1	LP SUM	2569	DEMOLITION
1	LP SUM	2650	MAINTAIN & CONTROL TRAFFIC
3	EACH	2775	FLASHING ARROW
1	EACH	4740	POLE BASE
223	LIN FT	4793	CONDUIT 1 1/4 INCH
1	EACH	4811	ELECTRICAL JUNCTION BOX TYPE B
133	LIN FT	4820	TRENCHING AND BACKFILLING
470	LIN FT	4844	CABLE-NO. 14/5C
116	LIN FT	4845	CABLE-NO. 14/7C
271	LIN FT	4886	MESSANGER-15400 LB
3	EACH	4932	INSTALL STEEL STRAIN POLE
48	SO FT	6407	SBM ALUM SHEET SIGNS .125 IN
16	LIN FT	6411	STEEL POST TYPE 2
7	EACH	20188N6835	INSTALL SIGNAL-3 SECTION LED
1	EACH	20286E5835	INSTALL SIGNAL-4 SECTION LED
1	EACH	20390N6835	INSTALL COORDINATING UNIT
4	EACH	20273EC	VIDEO DETECTION - INSTALL
3	EACH	21373ND	REMOVE SIGN
100	LIN FT	21543EN	BORE AND JACK CONDUIT
1	EACH	22939ND	INSTALL LUMINAIRE POLE
12.4	CU YD	23157EN	TRAFFIC SIGNAL POLE BASE
40	EACH	24901EC	PVC CONDUIT - 2INCH - SCHEDULE 80
1	EACH	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, SHALL BE USED UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. SEE SECTION 706, 713, 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 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 KYTC DIVISION OF EQUIPMENT WAREHOUSE (11239 WILKINSON BOULEVARD, FRANKFORT, KY 40622). THE VIDEO CAMERA DETECTION SYSTEM SHALL BE PICKED UP FROM KYTC DISTRICT 5 TRAFFIC SHOP (1517 FLORENCE, LOUISVILLE, KY 40213). DAVID-HUBER@KY.GOV, 502-550-0803.

THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR MATERIAL RELEASE. FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE MATERIALS UPON ARRIVAL.

1. CONTRACTOR SHALL SECURE THE SIGNATURES OF KYTC'S PROJECT ENGINEER AND THE ELECTRICIAN IN CHARGE OF THE PROJECT. THE SIGNATURES OF THE PROJECT ENGINEER WITH THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (502) 782-5540 OR KERRY ROBERTS OR EMAIL (TED.SWANSEGAR@KY.GOV;KERRY.ROBERTS@KY.GOV).

2. 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@KY.GOV AND SHALL NOTIFY THE WAREHOUSE BY PHONE (502-782-8994/502-330-8153) OR EMAIL KIM.STAMPER@KY.GOV AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL.

3. CONTRACTOR SHALL CONTACT THE SYSTEM BRANCH OF THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (502-782-5540/502-782-5547) OR EMAIL (JDE.THOMPSON@KY.GOV;JLARRY.BISHOP@KY.GOV) AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL TO FACILITATE PROGRAMMING OF ROUTERS.

4. CONTRACTOR SHALL ARRIVE AT THE KYTC'S DIVISION OF EQUIPMENT WAREHOUSE (11239 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 835.15; 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 716**

INSTALL LUMINAIRE POLE - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING AN ALUMINUM CAP (WITH SET SCREWS) FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE THE INSTALLATION OF THE MOUNTING BRACKETS, TRANSFORMER BASE, DOOR, AND ANCHOR BOLTS IN CONCRETE BASE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

**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 SPECIFIED VIDEO CAMERA, VIDEO MODULES, OR MOUNTING BRACKET AS 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, ELECTRICAL 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 ALSO NOT MEASURE CONNECTING THE INDUCTION LOOP AMPLIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL 400 MODEM CARD AND OTHER HARDWARE NECESSARY FOR PROPER INSTALLATION 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.

4-13-2020

**CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723**

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

MAXIMUM SERVICE FORCES	DIAMETER (IN.)	DEPTH (FEET)			VERTICAL BARS	TIES OR SPIRAL
		< 2:1 GROUND SLOPE	2:1 GROUND SLOPE	ROCK		
0-9.9	36	6	6.5	6	13	#4
10-19.9	36	6	6.5	6	13	#4
20-29.9	36	6	6.5	6	13	#4
30-39.9	36	6	6.5	6	13	#4
40-49.9	36	6	6.5	6	13	#4
50-59.9	36	6	6.5	6	13	#4
60-69.9	36	6	6.5	6	13	#4
70-79.9	36	6	6.5	6	13	#4
80-89.9	36	6	6.5	6	13	#4
90-99.9	36	6	6.5	6	13	#4
100-149.9	36	6	6.5	6	13	#4
150-199.9	36	6	6.5	6	13	#4
200-249.9	36	6	6.5	6	13	#4
250-299.9	36	6	6.5	6	13	#4
300-349.9	36	6	6.5	6	13	#4
350-399.9	36	6	6.5	6	13	#4
400-449.9	42	7.5	7.5	7.5	19	#4
450-499.9	42	7.5	7.5	7.5	19	#4
500-600	48	7.5	7.5	7.5	19	#4

**MATERIAL NOTES THAT ARE CONTRARY TO SECTION 835**

SUBSECTION: 835.21 WARNING TAPE.  
REVISION: REPLACE FIRST SENTENCE WITH THE FOLLOWING IN 834.32: PROVIDE DETECTABLE TYPE TAPE THAT IS 6 INCHES WIDE AND 7.0 MILS (NOMINAL) THICK.

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: SIGNAL QUANTITIES

HORIZONTAL SCALE: NA

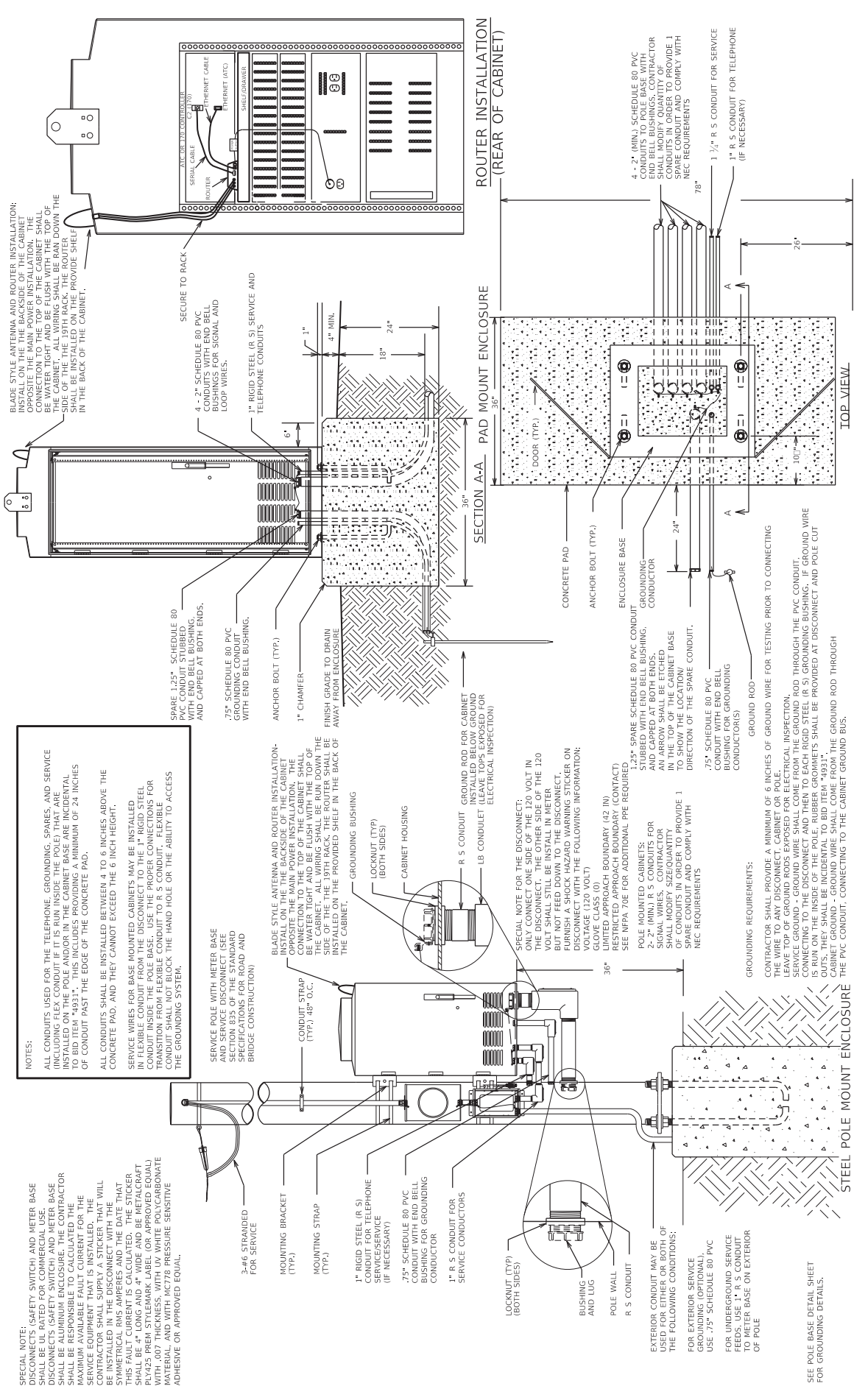
SUBMITTAL DATE: 4/12/2022  
DESIGNED BY: STANTEC

Digitally signed by  
Lewis, Tony  
Date: 2022.04.18  
17:58:49-0400

COUNTY OF  
OLDHAM

ITEM NO.  
SHEET NO. 71





**NOTES:**

ALL CONDUITS USED FOR THE TELEPHONE, GROUNDING, SERVICE AND SERVICE (INCLUDING FLEXIBLE CONDUIT IF IT IS RUN INSIDE THE CABINET) SHALL BE INSTALLED ON THE POLE AND/OR IN THE CABINET BASE ARE INCIDENTAL TO BID ITEM "4931". THIS INCLUDES PROVIDING A 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 INSIDE THE CONCRETE PAD. USE THE PROPER CONNECTIONS FOR TRANSITION FROM FLEXIBLE CONDUIT TO R/S CONDUIT. FLEXIBLE CONDUIT SHALL NOT BLOCK THE HAND HOLE OR THE ABILITY TO ACCESS THE GROUNDING SYSTEM.

SERVICE POLE WITH METER BASE SHALL BE INSTALLED TO THE RIGHT OF THE CONCRETE PAD. SEE SECTION 835 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.)

CONDUIT STRAP (TYP.) 48" O.C.

BLADE STYLE ANTENNA AND ROUTER INSTALLATION - INSTALL ON THE BACK SIDE OF THE CABINET OPPOSITE THE MAIN POWER INSTALLATION. THE CONNECTION TO THE TOP OF THE CABINET SHALL BE WATER TIGHT AND BE FLUSH WITH THE TOP OF THE CABINET. THE ANTENNA SHALL BE INSTALLED ON THE PROVIDED SHELF IN THE BACK OF THE CABINET.

GROUNDING BUSHING

LOCKNUT (TYP.) (BOTH SIDES)

CABINET HOUSING

R/S CONDUIT GROUND ROD FOR CABINET INSTALLED BELOW GROUND LEVEL (FOR ELECTRICAL INSPECTION)

CONCRETE PAD

ENCLOSURE BASE

CONCRETE BOLT (TYP.)

ENCLOSURE GROUNDING CONDUCTOR

2-2" (MIN.) R/S CONDUITS FOR SIGNAL WIRE. CONTRACTOR SHALL PROVIDE 1 SPARE CONDUIT IN ORDER TO PROVIDE 1 SPARE CONDUIT AND COMPLY WITH NEC REQUIREMENTS

7/8" SCHEDULE 80 PVC BUSHING FOR GROUNDING CONDUCTOR(S)

GROUND ROD - CONNECTING TO THE CABINET GROUND BUS.

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE TOP OF GROUND ROD EXPOSED FOR ELECTRICAL INSPECTION.

SERVICE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE DISCONNECT AND THEN TO EACH RIGID STEEL (R/S) GROUNDING BUSHING. IF GROUND WIRE IS RUN ON THE INSIDE OF THE POLE, RUBBER GROMMETS SHALL BE PROVIDED AT DISCONNECT AND POLE CUT THROUGH.

GROUNDING REQUIREMENTS:

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE TOP OF GROUND ROD EXPOSED FOR ELECTRICAL INSPECTION.

SERVICE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE DISCONNECT AND THEN TO EACH RIGID STEEL (R/S) GROUNDING BUSHING. IF GROUND WIRE IS RUN ON THE INSIDE OF THE POLE, RUBBER GROMMETS SHALL BE PROVIDED AT DISCONNECT AND POLE CUT THROUGH.

GROUNDING REQUIREMENTS:

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE TOP OF GROUND ROD EXPOSED FOR ELECTRICAL INSPECTION.

SERVICE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE DISCONNECT AND THEN TO EACH RIGID STEEL (R/S) GROUNDING BUSHING. IF GROUND WIRE IS RUN ON THE INSIDE OF THE POLE, RUBBER GROMMETS SHALL BE PROVIDED AT DISCONNECT AND POLE CUT THROUGH.

**SPECIAL NOTE:**

DISCONNECTS (SAFETY SWITCH) AND METER BASE SHALL BE UL RATED FOR COMMERCIAL USE. DISCONNECTS (SAFETY SWITCH) AND METER BASE SHALL BE ALUMINUM ENCLOSURE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE SERVICE EQUIPMENT THAT IS INSTALLED. THE CONTRACTOR SHALL SUPPLY A STICKER THAT WILL BE INSTALLED IN THE DISCONNECT WITH THE SYMMETRICAL RMS AMPERES AND THE DATE THAT THE DISCONNECT WAS INSTALLED. THE STICKER SHALL BE 4" LONG AND 4" WIDE AND BE METALCRAFT PLY425 PREN STYLE MARK LABEL (OR APPROVED EQUAL) WITH .007 THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH MC78 PRESSURE SENSITIVE ADHESIVE OR APPROVED EQUAL.

3-46 STRAINED FOR SERVICE

MOUNTING BRACKET (TYP.)

MOUNTING STRAP (TYP.)

1" RIGID STEEL (R/S) CONDUIT FOR TELEPHONE SERVICE/SERVICE (IF NECESSARY)

7/8" SCHEDULE 80 PVC CONDUIT WITH END BELL BUSHING FOR GROUNDING CONDUCTOR

1" R/S CONDUIT FOR SERVICE CONDUCTORS

LOCKNUT (TYP.) (BOTH SIDES)

BUSHING AND LUG

POLE WALL

R/S CONDUIT

EXTERIOR CONDUIT MAY BE USED FOR EITHER OR BOTH OF THE FOLLOWING CONDITIONS:

FOR EXTERIOR SERVICE GROUNDING (OPTIONAL), USE 7/8" SCHEDULE 80 PVC FOR UNDERGROUND SERVICE FEEDS. USE 1" R/S CONDUIT TO METER BASE ON EXTERIOR OF POLE

SEE POLE BASE DETAIL SHEET FOR GROUNDING DETAILS.

**ROUTER INSTALLATION (REAR OF CABINET)**

**SECTION A-A**

**STEEL POLE MOUNT ENCLOSURE**

**TOP VIEW**

**DRAWING TITLE: CONTROLLER CABINET DETAILS**

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

COUNTY OF OLDHAM  
ITEM NO.  
SHEET NO.

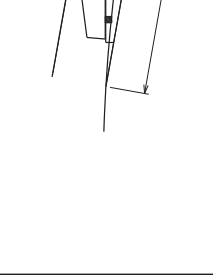
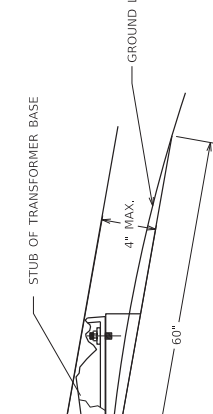
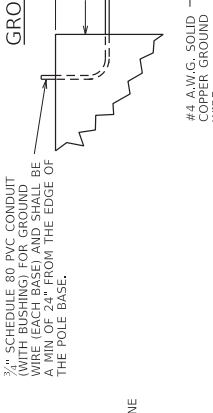
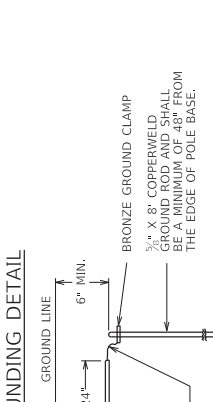
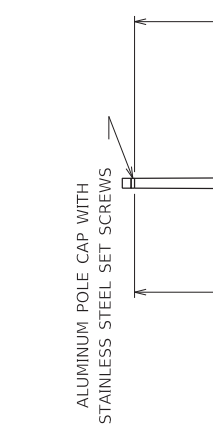
SUBMITTAL DATE: 4/12/2022  
DESIGNED BY: STANTEC

HORIZONTAL SCALE: NA

DATE PLOTTED: 3/7/2025 7:50:02 PM  
USER: kscaval

FILE NAME: U:\176582\01\TRANSPO\K17\01\DESIGN\DRAWING\K17\01\SIG\AL\_DESIGN.DGN





**GROUNDING DETAIL**

3/4" SCHEDULE 80 PVC CONDUIT (WITH BUSHING) FOR GROUNDING WIRE SHALL BE INSTALLED A MIN OF 24" FROM THE EDGE OF THE POLE BASE.

GROUND LINE

24" MIN.

6" MIN.

BRONZE GROUND CLAMP

3/8" X 8" COPPERWELD NUT AND WASHER SHALL BE A MINIMUM OF 48" FROM THE EDGE OF POLE BASE.

#4 A.W.G. SOLID COPPER WIRE

SPECIAL NOTE FOR THE TRANSFORMER BASE: FUSED CONNECTOR KITS SHALL BE INSTALLED FOR ALL 120 VOLT WIRING IN TRANSFORMER BASES. THIS WILL ONLY BE NEEDED FOR PERSTRAN DETECTORS. DO NOT REQUIRE FUSED CONNECTOR KITS. CONTRACTOR CAN USE ONE KIT FOR A COMMON NEUTRAL FOR ALL DEVICES IN THE TRANSFORMER BASE. THERE SHALL BE A METAL LUG INSTALLED IN THE NEUTRAL WIRE KIT INSTEAD OF A FUSE.

**BREAKAWAY SUPPORT STUB HEIGHT MEASUREMENT**

THE ANCHOR BOLTS AND CONDUITS SHALL NOT BE PROJECTED MORE THAN 4 INCHES ABOVE A GROUND LINE BETWEEN THE STRADDLING WHEELS OF A VEHICLE.

60"

4" MAX.

STUB OF TRANSFORMER BASE

GROUND LINE

**TYPICAL GROUNDING DETAIL**

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO TRANSFORMER BASE.

POLE/TRANSFORMER BASE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT CONNECTING TO THE TRANSFORMER BASE/POLE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING.

NOTES:

ALL CONDUITS USED FOR THE GROUNDING, SPARES AND CONDUCTORS THAT ARE INSTALLED IN THE POLE BASE ARE INCLUDED TO BID ITEM #4740". THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE POLE BASE.

NOTE: PRECAST CONCRETE BASES ARE NOT ACCEPTABLE

**FOUNDATION DETAIL**

ALL POLE BASES SHALL HAVE A MINIMUM OF TWO CONDUITS (NOT INCLUDING GROUND CONDUIT). THE SPARE CONDUIT SHALL BE LOCATED FROM THE CONDUIT FOR THE CONDUCTORS.

4-ANCHOR BOLTS

NO. 3 BARS

6-NO. 5 BARS

2" RIGID STEEL CONDUIT FOR SERVICE (WHERE REQUIRED)

3/4" SCHEDULE 80 PVC CONDUIT (WITH BUSHING) FOR GROUNDING WIRE SHALL BE INSTALLED A MINIMUM OF 24" FROM POLE BASE.

NOTE: PRECAST CONCRETE BASES ARE NOT ACCEPTABLE

**SIGNAL LUMINAIRE**

CONCRETE BASES SHALL BE POURED LEVEL. NO MORE THAN A 3/16" GAP SHALL EXIST BETWEEN CONCRETE BASE AND TRANSFORMER BASE WHEN THE POLE IS PLUMBED.

CONNECTING BOLT

SPACER PLATES SHALL BE USED TO PREVENT OPENINGS ON TOP OF BASE.

LOCATE DOOR ON SIDE AWAY FROM ON-COMING TRAFFIC

GROUNDING NUT OR LUG ON BASE FLANGE PLATE

STEEL PLATES (4)

17" MIN.

12" MIN.

15" MIN.

**CAST ALUMINUM TRANSFORMER BASE**

NOTE: TRANSFORMER BASE DOORS SHALL HAVE A 1/4" BY 6" SHOCK HAZARD WARNING STICKER. THE STICKER SHALL BE METALCRAFT PLY695 PREM STYLE/BLACK LABEL WITH POLYCARBONATE MATERIAL AND WITH MCS3FL PRESSURE SENSITIVE ADHESIVE OR APPROVAL EQUAL. THIS SHALL BE INCIDENTAL TO PROJECT.

**TYPICAL**

**CAST ALUMINUM TRANSFORMER BASE**

NOTE: TRANSFORMER BASE DOORS SHALL HAVE A 1/4" BY 6" SHOCK HAZARD WARNING STICKER. THE STICKER SHALL BE METALCRAFT PLY695 PREM STYLE/BLACK LABEL WITH POLYCARBONATE MATERIAL AND WITH MCS3FL PRESSURE SENSITIVE ADHESIVE OR APPROVAL EQUAL. THIS SHALL BE INCIDENTAL TO PROJECT.

**GROUNDING DETAIL**

3/4" SCHEDULE 80 PVC CONDUIT (WITH BUSHING) FOR GROUNDING WIRE SHALL BE INSTALLED A MIN OF 24" FROM THE EDGE OF THE POLE BASE.

GROUND LINE

24" MIN.

6" MIN.

BRONZE GROUND CLAMP

3/8" X 8" COPPERWELD NUT AND WASHER SHALL BE A MINIMUM OF 48" FROM THE EDGE OF POLE BASE.

#4 A.W.G. SOLID COPPER WIRE

SPECIAL NOTE FOR THE TRANSFORMER BASE: FUSED CONNECTOR KITS SHALL BE INSTALLED FOR ALL 120 VOLT WIRING IN TRANSFORMER BASES. THIS WILL ONLY BE NEEDED FOR PERSTRAN DETECTORS. DO NOT REQUIRE FUSED CONNECTOR KITS. CONTRACTOR CAN USE ONE KIT FOR A COMMON NEUTRAL FOR ALL DEVICES IN THE TRANSFORMER BASE. THERE SHALL BE A METAL LUG INSTALLED IN THE NEUTRAL WIRE KIT INSTEAD OF A FUSE.

**BREAKAWAY FUSE CONNECTOR KIT**

6 AMP/60 VACI CARTRIDGE FUSE

1/2" TYPE RUBBER INSULATOR

1/2" TYPE RUBBER INSULATOR HOUSING

1/2" TYPE RUBBER INSULATOR

1/2" TYPE RUBBER INSULATOR HOUSING

LOAD CABLE

RECEPTACLE TERMINAL

FUSE HOLDER

FUSE TERMINAL (SCREW TYPE)

CONNECTOR SCREW

LINE CONNECTOR

LINE CABLES

**DETAILS OF TYPE HEB-IW-RYC CONNECTOR**

LOAD SIDE ASSEMBLY

BREAKAWAY POINT

TYPE HEB-IW-RYC CONNECTOR SHOWN

CONNECTING BOLT

SPACER PLATES SHALL BE USED TO PREVENT OPENINGS ON TOP OF BASE.

LOCATE DOOR ON SIDE AWAY FROM ON-COMING TRAFFIC

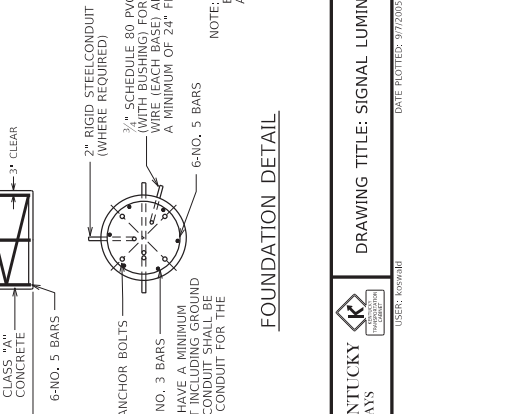
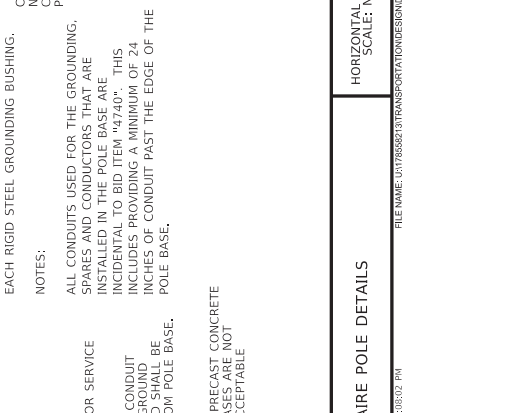
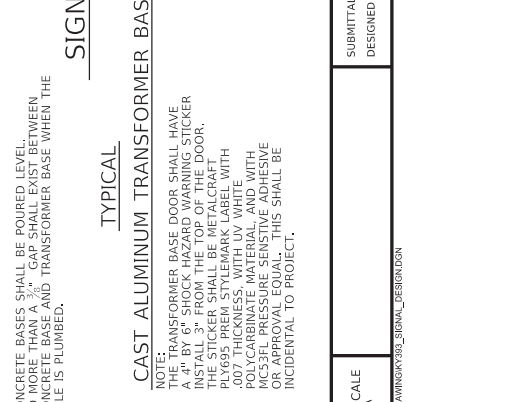
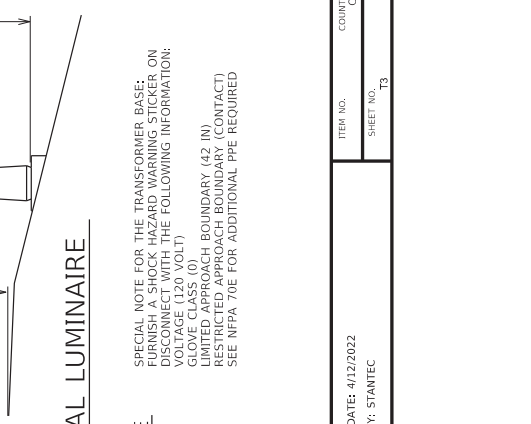
GROUNDING NUT OR LUG ON BASE FLANGE PLATE

STEEL PLATES (4)

17" MIN.

12" MIN.

15" MIN.



AS REQUIRED

ITEM NO. COUNTY OF OLDHAM SHEET NO. T3

SUBMITTAL DATE: 4/12/2022 DESIGNED BY: STANTEC

HORIZONTAL SCALE: NA

DRAWING TITLE: SIGNAL LUMINAIRE POLE DETAILS

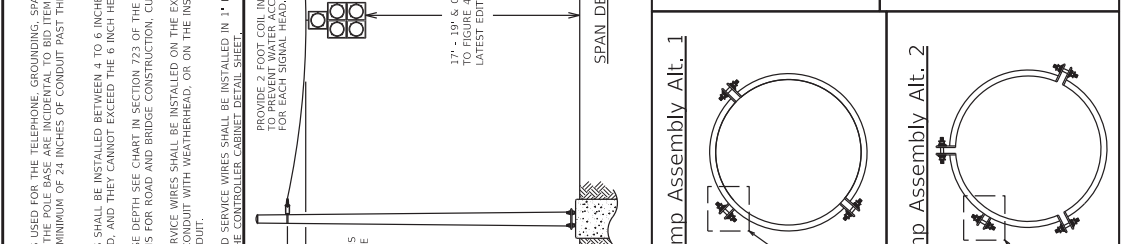
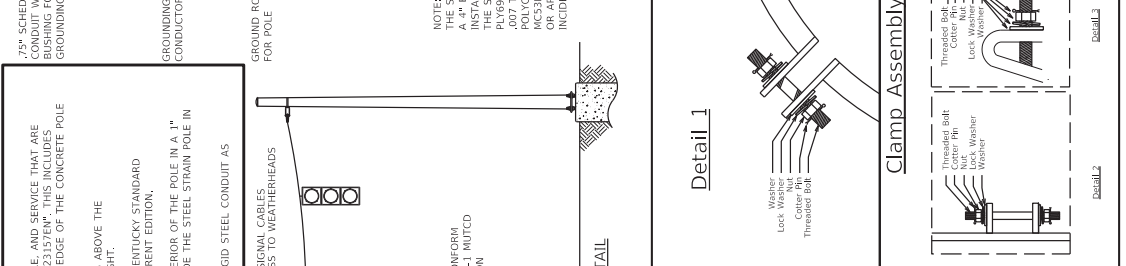
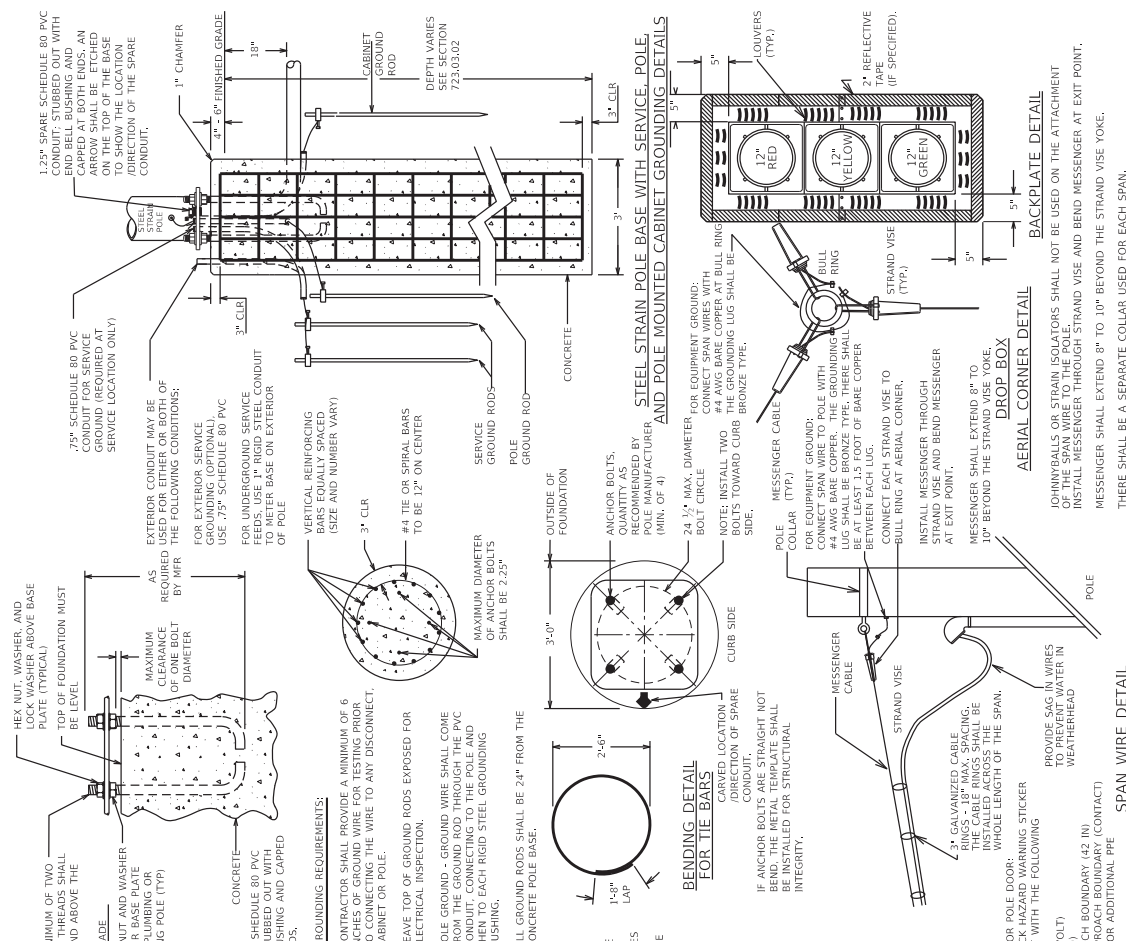
COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS

DATE PLOTTED: 9/7/2025 7:05:02 PM

FILE NAME: U:\165822\01\TRANSFORMER\DRAWING\K952\_SIGNAL\_DRAWING.DWG

USER: ksovalik

4/28/2020



NOTE: THE STEEL STRAIN DOOR SHALL HAVE A 4\"/>

4/15/2021

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DESIGNED BY: STANTEC

HORIZONTAL SCALE: NA

ITEM NO. COUNTY OF OLDHAM

DATE PLOTTED: 3/7/2025 7:58:52 PM

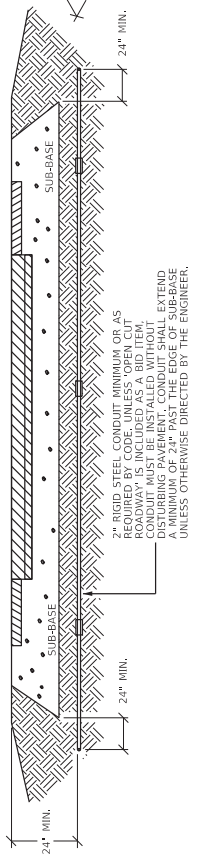
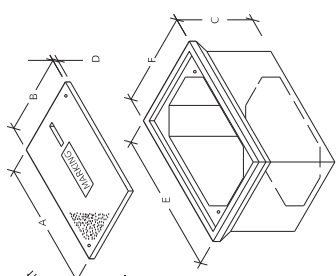
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FILE NAME: U371658210TANSPORTATIONDESIGNDRAWING952\_SIGNAL\_DESIGN.DWG

JUNCTION BOX DIMENSIONS (NOMINAL)

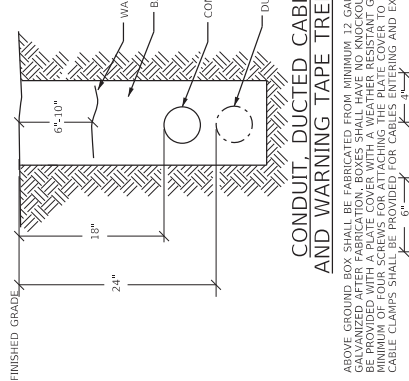
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1.75" ±	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

\* MINIMUM  
NOTE: STACKABLE BOXES ARE PERMITTED



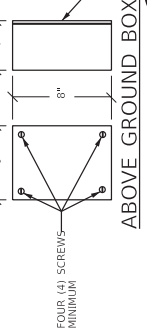
**CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL**

DEPTHS SHOWN FOR CONDUIT AND TRENCH SHALL BE TO FINISHED GRADE. CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN 9" MAXIMUM DEPTHS AND TO THE SATISFACTION OF THE ENGINEER.

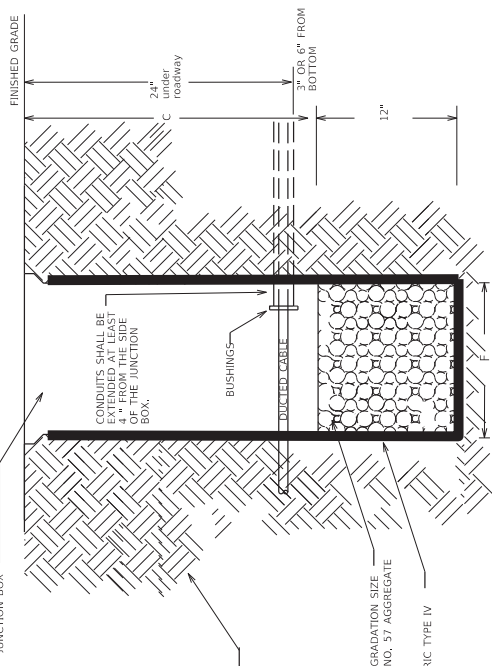
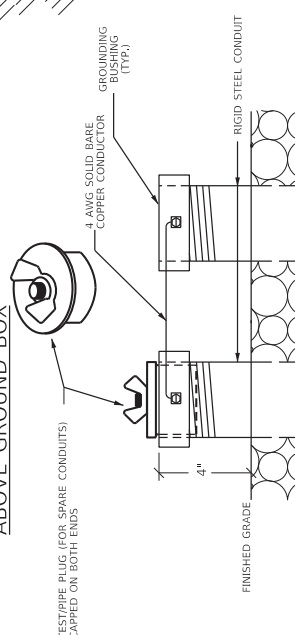


**CONDUIT, DUCTED CABLE AND WARNING TAPE TRENCH**

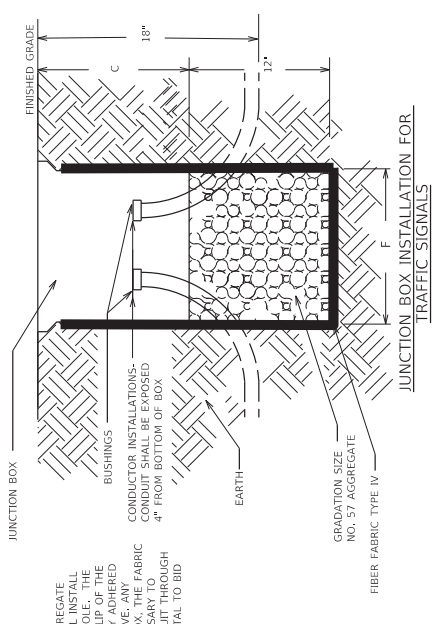
ABOVE GROUND BOX SHALL BE FABRICATED FROM MINIMUM 12 GAUGE STEEL AND GALVANIZED AFTER FABRICATION. BOXES SHALL HAVE NO KNOCKOUTS AND SHALL BE PROVIDED WITH A WEATHER RESISTANT COVER PLATE WITH FOUR (4) SCREWS FOR ATTACHING THE PLATE COVER TO THE BOX. CABLE CLAMPS SHALL BE PROVIDED FOR CABLES ENTERING AND EXITING THE BOX.



**ABOVE GROUND BOX**



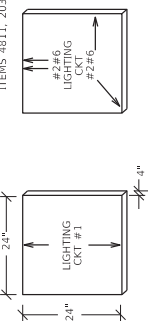
**JUNCTION BOX INSTALLATION FOR HIGHMAST LIGHTING**



**JUNCTION BOX INSTALLATION FOR TRAFFIC SIGNALS**

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 TOP OF THE TRENCH AND TO THE EXTERIOR OF THE BOX WITH ADHESIVE TAPE 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 4011, 2032A16505, OR 2032A16505.

**JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING**



**TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL CONCRETE CABLE MARKERS**

3/13/2017

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: JUNCTION BOX DETAILS

HORIZONTAL SCALE: NA

DATE PLOTTED: 3/17/2015 7:05:02 PM

FILE NAME: U:\176582\10\TRANSPOK\T018\DESIGN\WORK\932\_SIGNAL\_DESIGN.DWG

USER: kscarrall

ITEM NO. COUNTY OF OLDHAM  
SHEET NO. TS

SUBMITTAL DATE: 4/12/2022  
DESIGNED BY: STANTEC



THE CONTRACTOR MAY WANT TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF THE MESSENGER CABLE. THIS SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. 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 SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

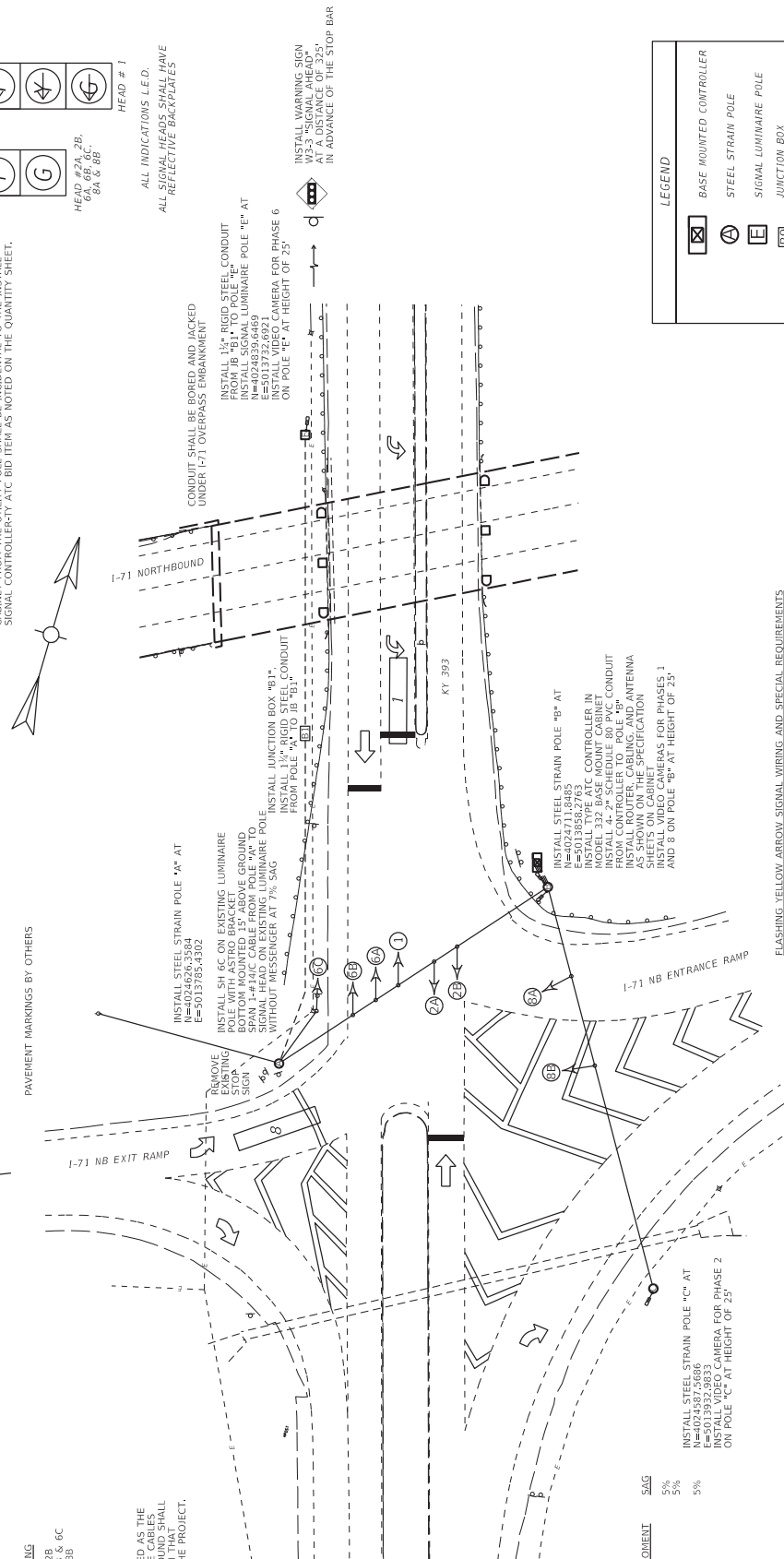
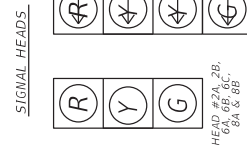
**WIRING SCHEDULE**

CABLE	ORIGIN	ENDING	CONNECTING
1-# 14/5C	CONTROLLER	SH 2A	SH 2A & 2B
1-# 14/5C	CONTROLLER	SH 6C	SH 6A, 6B & 6C
1-# 14/7C	CONTROLLER	SH 9	SH 6A & 8B
1-# 14/7C	CONTROLLER	SH 1	SH 1

**WIRING NOTE FOR NEW SIGNAL HEADS:**  
THE GREEN WIRE IN THE SC7/C CABLE SHALL BE USED AS THE EQUIPMENT GROUND. USE THE BLACK WIRE IN THESE CABLES TO CONNECT GREEN MODULES. THE EQUIPMENT GROUND SHALL CARRY VOLTAGE. THIS SHALL BE INCIDENTAL TO THE PROJECT.

**SERVICE CONNECTION:**  
METER BASE AND DISCONNECT SHALL BE ON POLE "A". AN ADDITIONAL DISCONNECT SHALL BE ON POLE "B". USE 3/4" 1/2" RIGID STEEL CONDUIT FOR SERVICE FROM CONTROLLER TO POLE "B". MINIMUM CONDUIT SIZE SHALL BE 1 1/2" AS REQUIRED. ADDITIONAL CONDUIT, WIRE, WEATHER HEADS, DISCONNECT SWITCHES, ETC., REQUIRED TO PROVIDE SERVICE TO THE CABINET SHALL BE IDENTIFIED TO THE CONTRACTOR BY SIGNAL CONTROLLER AT C BID ITEM AS NOTED ON THE QUANTITY SHEET.

REPLACE EXISTING ADVANCED WARNING "STOP AHEAD" AND ADVANCED WARNING "STOP AHEAD" WARNING SIGNS. REUSE EXISTING POSTS



ALL MESSENGER IS 15,400 LB

**STEEL STRAIN POLES**

POLE	HEIGHT	SPAN	ALT. HT.	CALC. SERV. MOMENT	SAG
A	30'	A-B	28.50'	165.46 K-FT	5%
B	34'	B-C	31.50'	249.69 K-FT	5%
C	30'	C-B	28.00'	114.39 K-FT	5%

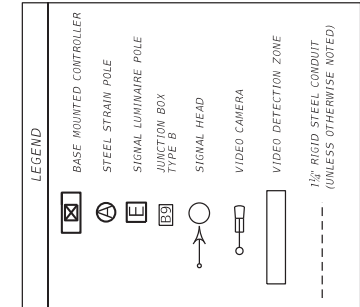
**DETECTOR SCHEDULE**

DETECTOR	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
1	1	11	1	6X30	0"	0'
2	2	12	1	6X6	0"	48"
6	6	12	1	6X6	0"	259"
8	8	16	1	6X30	VIDEO	0"

**FLASHING YELLOW ARROW SIGNAL WIRING AND SPECIAL REQUIREMENTS**

CONNECTION	COLOR	OUTPUT FILE CONNECTION OF EVAL ON PHASE
RED ARROW	RED	PHASE 1 RED
STEADY YELLOW ARROW	ORANGE	PHASE 1 YELLOW
FLASHING YELLOW ARROW	WHITE/TRACER	PHASE 1 GREEN
NEUTRAL	WHITE	PHASE 5 GREEN
EQUIPMENT GROUND	BLUE	PHASE 5 YELLOW PHASE 6
NOT USED	GREEN	WHITE

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



DRAWING TITLE: I-71 NB @ KY 393 INTERCHANGE  
SIGNAL PLAN

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

SUBMITTAL DATE: 4/12/2022  
DESIGNED BY: STANTEC



FILE NAME: G:\1785352\TRANSPORTATION\DESIGN\DRAWINGS\9312\_SIGNAL\_DESIGN.DWG  
DATE PLOTTED: 3/17/2025 7:06:02 PM  
USER: krcorral

ITEM NO. COUNTY OF OLDHAM  
SHEET NO. 76

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: **Oldham**

Description: **KY 329B @ Kenwood Elementary**

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)
4	T-01-0700	Load Switches

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

Special items			
1		Video Detection System Camera Detector, SP	0
1	T-02-0504	Router (this includes power supply/antenna/cabling)	

Poles		
1	T-04-0020	Steel Strain Pole 30 foot
3	T-04-0030	Steel Strain Pole 32 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 SIGNAL ESTIMATE OF QUANTITIES**

TOTAL	UNITS	CODE	ITEM DESCRIPTION
103	50 FT	2562	SIGNS
1	LP SUM	2569	DEMOLITION
1	LP SUM	2650	MAINTAIN & CONTROL TRAFFIC
3	EACH	2775	FLASHING ARROW
10	LIN FT	4820	TRENCHING AND BACKFILL
625	LIN FT	4844	CABLE-NO. 14/7C
300	LIN FT	4845	MESSAGE-10800 LB
313	LIN FT	4885	INSTALL STEEL STRAIN POLE
4	EACH	4932	INSTALL SIGNAL-3 SECTION LED
7	EACH	2018BNS635	INSTALL COORDINATING UNIT
1	EACH	20275EC	VIDEO DETECTION - INSTALL
1	EACH	21373ND	REMOVE SIGN
15.5	CU YD	23157EN	TRAFFIC SIGNAL POLE BASE
40	EACH	24901EC	PVC CONDUIT - 2 INCH -SCHEDULE 80
1	EACH	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC

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 MEASUREMENTS AND OTHER DETAILS. SEE SECTION 602 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 KYTC'S DIVISION OF EQUIPMENT WAREHOUSE (1239 WILKINSON BOULEVARD, FRANKFORT, KY 40622), THE VIDEO CAMERA DETECTION SYSTEM SHALL BE PICKED UP FROM KYTC DISTRICT 5 TRAFFIC SHOP (1517 DURRETT LANE, LOUISVILLE, KY 40213). DAVID-HUBER@KY.GOV, 502-550-0803.

THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR MATERIAL RELEASE. FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE MATERIALS UPON ARRIVAL.

1. 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 WITH THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (5502-782-5540/502-782-5536) OR EMAIL (TED.SWANSEGAR@KY.GOV/KERRY.ROBERTS@KY.GOV).
2. 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@KY.GOV AND SHALL NOTIFY THE WAREHOUSE (502-550-0803) ON EMAIL (KIM.STAMPER@KY.GOV AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL).
3. CONTRACTOR SHALL ALSO CONTACT THE SIGNAL SYSTEM BRANCH OF THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (502-782-5543/502-782-5547) OR EMAIL (JOETHOMPSON@KY.GOV/LARRY.IRISH@KY.GOV) AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL TO FACILITATE PROGRAMMING OF ROUTERS.
4. 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 835.15; 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 SPECIFIED VIDEO CAMERA, VIDEO MODULES, OR MOUNTING BRACKET AS 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 DEPARTMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE CONNECTING THE INDUCTION LOOP AMPLETERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL ADD MODERN CARD (IF APPLICABLE), OR ANY HARDWARE NECESSARY FOR PROPER INSTALLATION 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 03.02 POLES AND BASES INSTALLATION, B)  
 REVISION: REPLACE ENTIRE TABLE WITH THE FOLLOWING:

MAXIMUM SERVICE MOMENT (FT-KIPS)	DIAMETER (IN.)	DRILLED SHAFT DATA				VERTICAL BARS TOTAL	TIES OR SPIRAL BAR SIZE	SPACING OR PITCH (IN.)
		SOIL	ROCK	DEPTH (FEET) < 2:1 GROUND SLOPE	2:1 GROUND SLOPE			
0-9.9	36	6	6	6.5	6	13	#8	12
10-19.9	36	6	6	6.5	6	13	#8	12
20-29.9	36	6	6	6.5	6	13	#8	12
30-39.9	36	6	6	6.5	6	13	#8	12
40-49.9	36	6	6	6.5	6	13	#8	12
50-59.9	36	6	6	6.5	6	13	#8	12
60-69.9	36	6	6	6.5	6	13	#8	12
70-79.9	36	6	6	6.5	6	13	#8	12
80-89.9	36	6	6	6.5	6	13	#8	12
90-99.9	36	6	6	6.5	6	13	#8	12
100-149.9	36	6	6	6.5	6	13	#8	12
150-199.9	36	6	6	6.5	6	13	#8	12
200-249.9	36	6	6	6.5	6	13	#8	12
250-299.9	36	6	6	6.5	6	13	#8	12
300-349.9	36	6	6	6.5	6	13	#8	12
350-399.9	36	6	6	6.5	6	13	#8	12
400-449.9	42	11.5	7.5	7.5	7.5	19	#8	12
450-499.9	42	11.5	7.5	7.5	7.5	19	#8	12
500-600	48	22.5	7.5	7.5	7.5	19	#8	12

MATERIAL NOTES THAT ARE CONTRARY TO SECTION 835

SUBSECTION: 835.21 WARNING TAPE.

REVISION: REPLACE FIRST SENTENCE WITH THE FOLLOWING IN 834.32: PROVIDE DETECTABLE TYPE TAPE THAT IS 6 INCHES WIDE AND 7.0 MILS (NOMINAL) THICK.

4-13-2020



DRAWING TITLE: SIGNAL QUANTITIES

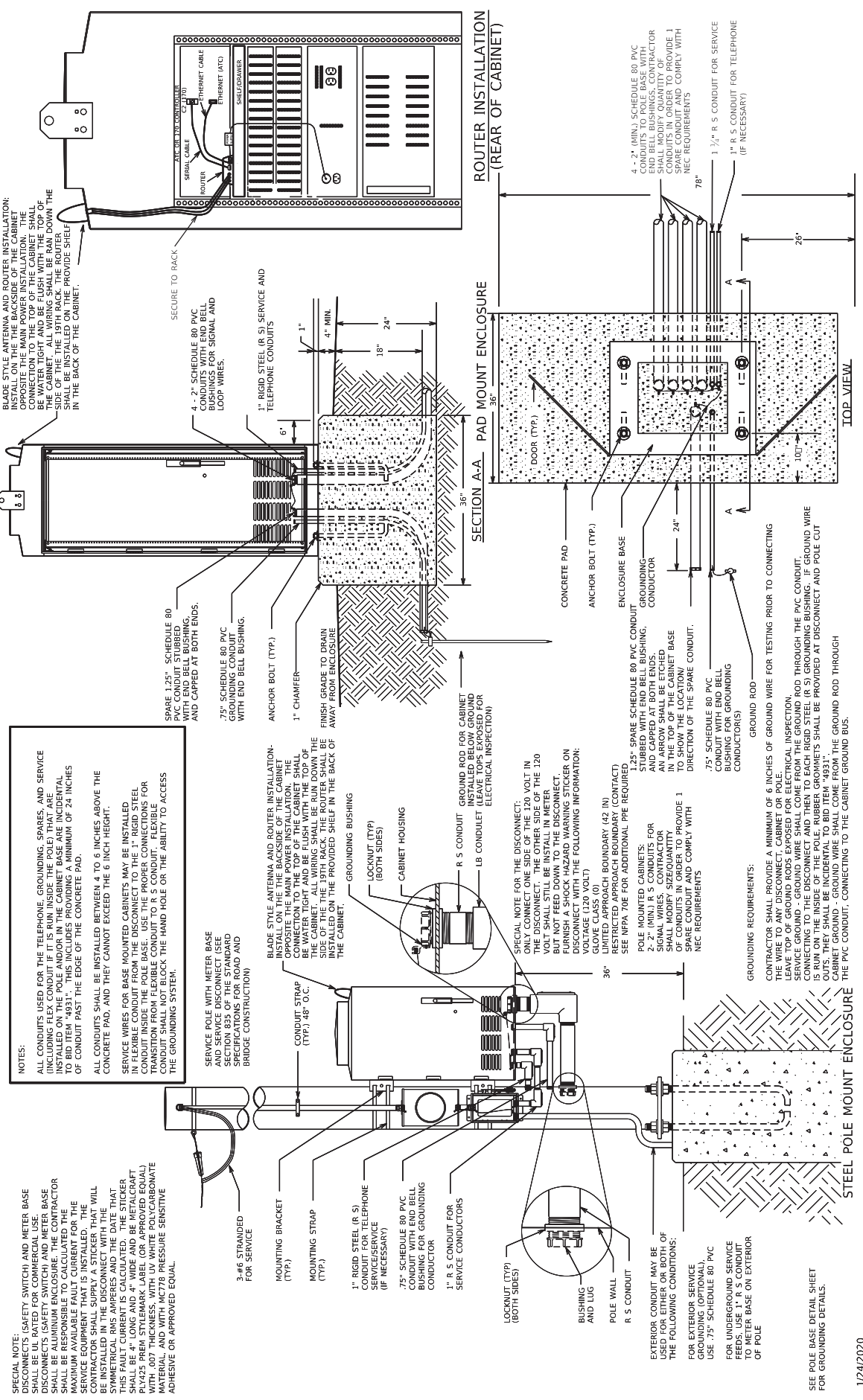
HORIZONTAL SCALE: NA

SUBMITTAL DATE: 4/12/2022  
 DESIGNED BY: STANTEC

COUNTY OF OLDHAM  
 SHEET NO. 11

DATE PLOTTED: 3/7/2025 7:50:52 PM  
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OpenRoads Designer 21.0.6.0.0  
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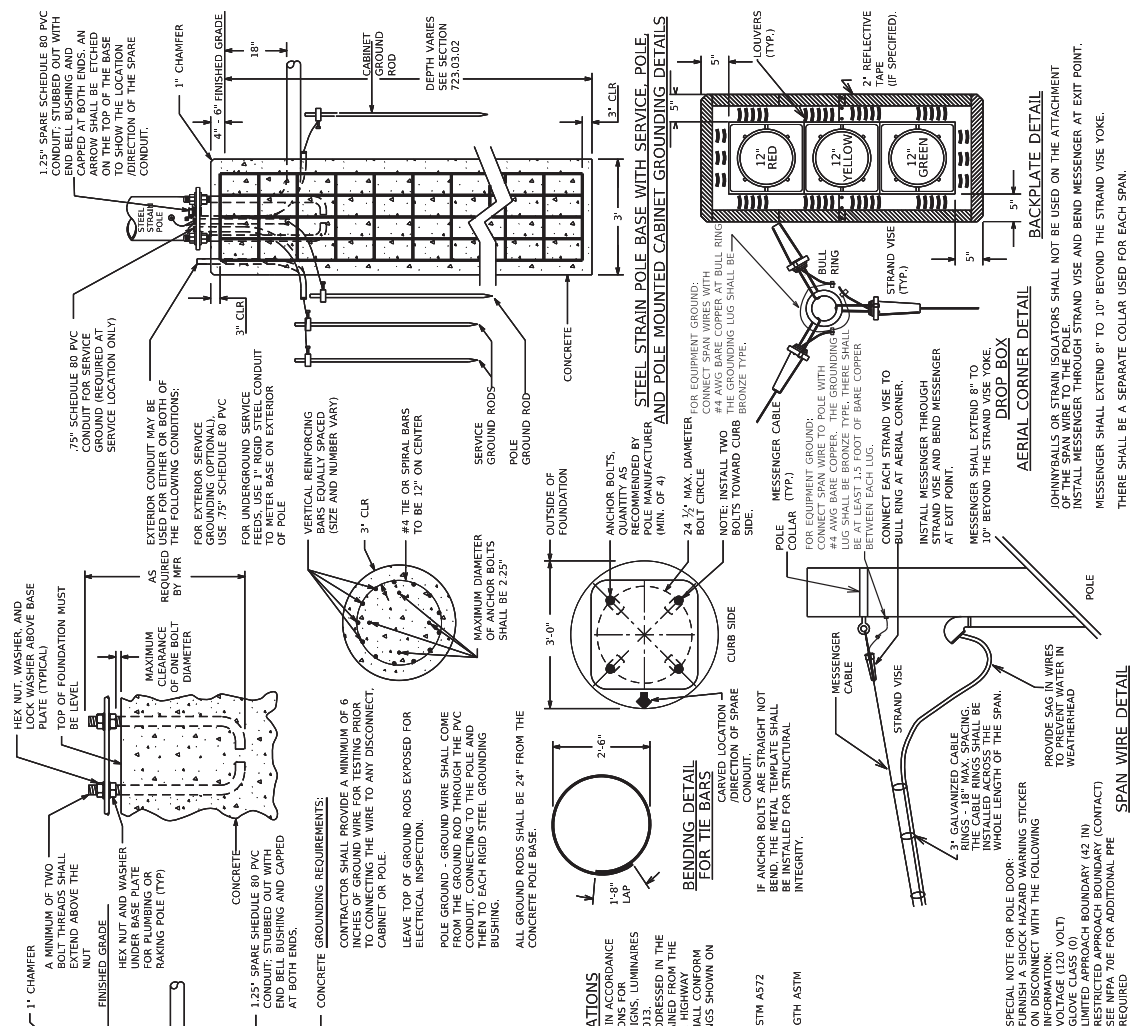


**NOTES:**  
ALL CONDUITS USED FOR THE TELEPHONE, GROUNDING, SPARE, AND SERVICE (INCLUDING FLEXIBLE CONDUIT IF IT IS MIN) INSIDE THE CABINET SHALL BE INSTALLED ON THE POLE AND/OR IN THE CABINET BASE ARE INCIDENTAL TO BID ITEM "4931". THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE 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 THROUGH THE MAIN POWER CONDUIT. USE THE PROPER CONNECTIONS FOR TRANSITION FROM FLEXIBLE CONDUIT TO R S CONDUIT. FLEXIBLE CONDUIT SHALL NOT BLOCK THE HAND HOLE OR THE ABILITY TO ACCESS THE GROUNDING SYSTEM.  
SERVICE POLE WITH METER BASE SHALL BE INSTALLED TO THE LEFT OF SECTION 835 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION)  
CONDUIT STRAP (TYP.) 48" O.C.  
BLADE STYLE ANTENNA AND ROUTER INSTALLATION - INSTALL ON THE BACK SIDE OF THE CABINET OPPOSITE THE MAIN POWER INSTALLATION. THE CONNECTION TO THE POLE AND/OR IN THE CABINET SHALL BE WATER TIGHT AND BE FLUSH WITH THE TOP OF THE CABINET. THE MAIN POWER SHALL BE INSTALLED ON THE 19TH RACK. THE ROUTER SHALL BE INSTALLED ON THE PROVIDED SHELF IN THE BACK OF THE CABINET.  
GROUNDING BUSHING  
LOCKNUT (TYP.) (BOTH SIDES)  
CABINET HOUSING  
R S CONDUIT GROUND ROD FOR CABINET (SEE SECTION 835 FOR ELECTRICAL INSPECTION)  
LB CONDULET  
SPECIAL NOTE FOR THE DISCONNECT: THE DISCONNECT SHALL BE INSTALLED IN THE DISCONNECT. THE OTHER SIDE OF THE 120 VOLT SHALL STILL BE INSTALLED IN METER BUT NOT FEED DOWN TO THE DISCONNECT. FURNISH A SHOCK HAZARD WARNING STICKER ON VOLTAGE (120 VOLT) GLOVE CLASS (0)  
LIMITED APPROACH BOUNDARY (42 IN) SEE NPFA 70E FOR ADDITIONAL PIPE REQUIRED  
POLE MOUNTED CABINETS: 2 - 2" (MIN) R S CONDUITS FOR SIGNAL WIRES; CONTRACTOR SHALL PROVIDE 1 SET OF CONDUITS IN ORDER TO PROVIDE 1 SPARE CONDUIT AND COMPLY WITH NEC REQUIREMENTS  
7/8" SCHEDULE 80 PVC CONDUIT WITH END BELL BUSHING FOR GROUNDING CONDUCTOR(S)  
GROUND ROD - GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE PVC CONDUIT, CONNECTING TO THE GROUND ROD THROUGH THE PVC CONDUIT. SERVICE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT. IF GROUND WIRE IS RUN ON THE INSIDE OF THE POLE, RUBBER GROMMETS SHALL BE PROVIDED AT DISCONNECT AND POLE CUT TO PREVENT GROUND WIRE FROM COMING FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE CABINET GROUND BUS.

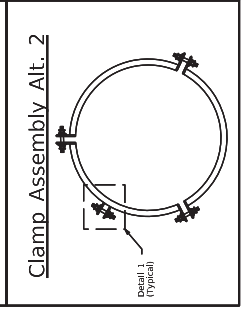
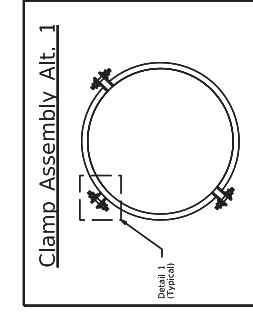
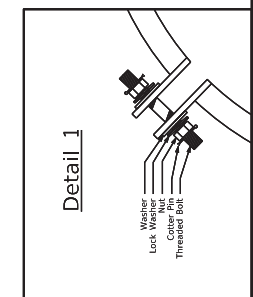
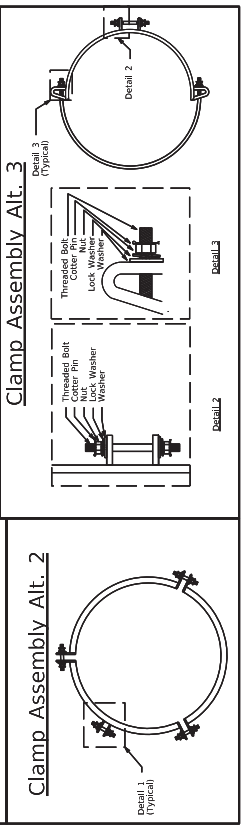
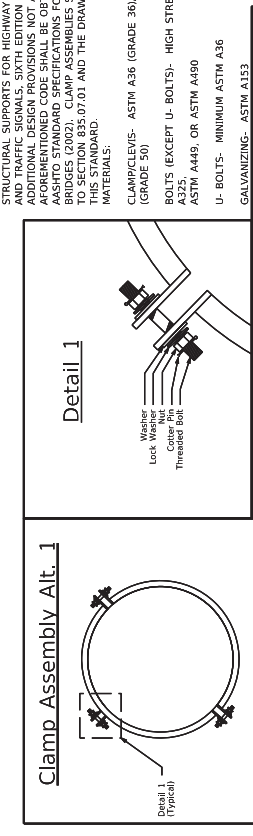
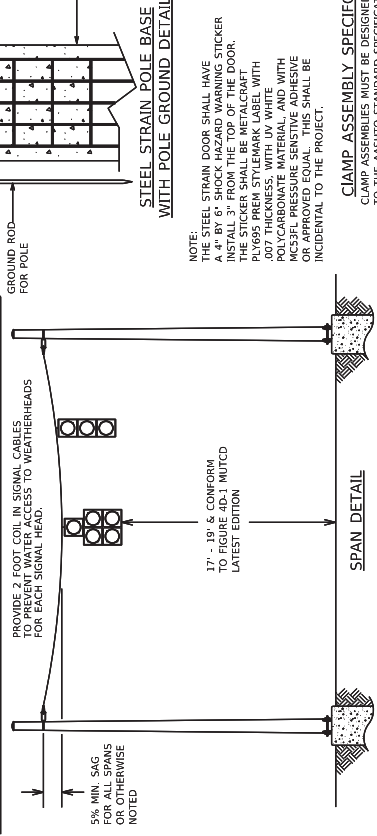
**SPECIAL NOTE:**  
DISCONNECTS (SAFETY SWITCH) AND METER BASE SHALL BE UL RATED FOR COMMERCIAL USE. DISCONNECTS (SAFETY SWITCH) AND METER BASE SHALL BE ALUMINUM ENCLOSURE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE PANEL BOARD LOADS AND TO PROVIDE THE SERVICE EQUIPMENT THAT IS INSTALLED. THE CONTRACTOR SHALL SUPPLY A STICKER THAT WILL BE INSTALLED IN THE DISCONNECT WITH THE SYMMETRICAL RMS AMPERES AND THE DATE THAT THE DISCONNECT WAS INSTALLED. THE STICKER SHALL BE 4" LONG AND 4" WIDE AND BE METALCRAFT PLY425 PREM STYLE MARK LABEL (OR APPROVED EQUAL) WITH .007 THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH MC78 PRESSURE SENSITIVE ADHESIVE OR APPROVED EQUAL.

3-#6 STRANDS FOR SERVICE  
MOUNTING BRACKET (TYP.)  
MOUNTING STRAP (TYP.)  
1" RIGID STEEL (R S) CONDUIT FOR TELEPHONE SERVICE/SERVICE (IF NECESSARY)  
7/8" SCHEDULE 80 PVC CONDUIT WITH END BELL BUSHING FOR GROUNDING CONDUCTOR  
1" R S CONDUIT FOR SERVICE CONDUCTORS  
LOCKNUT (TYP.) (BOTH SIDES)  
BUSHING AND LUG  
POLE WALL  
R S CONDUIT  
EXTERIOR CONDUIT MAY BE USED FOR EITHER OR BOTH OF THE FOLLOWING CONDITIONS:  
FOR EXTERIOR SERVICE GROUNDING (OPTIONAL), USE 7/8" SCHEDULE 80 PVC FOR UNDERGROUND SERVICE FEEDS. USE 1" R S CONDUIT TO METER BASE ON EXTERIOR OF POLE  
SEE POLE BASE DETAIL SHEET FOR GROUNDING DETAILS.

	DRAWING TITLE: CONTROLLER CABINET DETAILS	SUBMITTAL DATE: 4/12/2022 DESIGNED BY: STANTEC	COUNTY OF OLDHAM ITEM NO. _____ SHEET NO. 12
		HORIZONTAL SCALE: NA SCALE: NA	FILE NAME: U:\17658201\TRANSPOK\T\DESIGN\DRAWING\K220_SIGNAL_DESIGN.DGN DATE PLOTTED: 3/27/2023 7:52:52 PM USER: k220vml



**NOTES:**  
 ALL CONDUITS USED FOR THE TELEPHONE GROUNDING SPARE AND SERVICE THAT ARE INSTALLED IN THE POLE BASE ARE INCIDENTAL TO BID ITEM "23157EN". THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE POLE BASE.  
 ALL CONDUITS SHALL BE INSTALLED BETWEEN 4 TO 6 INCHES ABOVE THE CONCRETE PAD, AND THEY CANNOT EXCEED THE 6 INCH HEIGHT.  
 FOR POLE BASE DEPTH SEE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.  
 OVERHEAD SERVICE WIRES SHALL BE INSTALLED ON THE EXTERIOR OF THE POLE IN A 1" RIGID STEEL CONDUIT WITH WEATHERHEAD, OR ON THE INSIDE THE STEEL STRAIN POLE IN FLEXIBLE CONDUIT.  
 UNDERGROUND SERVICE WIRES SHALL BE INSTALLED IN 1" RIGID STEEL CONDUIT AS SHOWN ON THE CONTROLLER CABINET DETAIL SHEET.  
 PROVIDE 2 FOOT COIL IN SIGNAL CABLES TO PREVENT WATER ACCESS TO WEATHERHEADS FOR EACH SIGNAL HEAD.  
 5% MIN. SAG FOR ALL SPANS OR OTHERWISE NOTED  
 17" - 18" ± CONFORM TO FIGURE AND LATEST EDITION  
**SPAN DETAIL**



**CLAMP ASSEMBLY SPECIFICATIONS**  
 CLAMP ASSEMBLIES MUST BE DESIGNED IN ACCORDANCE TO THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, SIXTH EDITION 2013.  
 ALL CLAMP ASSEMBLIES MUST BE FABRICATED IN THE APPOINTED CODE SHALL BE OBTAINED FROM THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (2002). CLAMP ASSEMBLIES SHALL CONFORM TO THIS STANDARD.  
 MATERIALS:  
 CLAMPS/CLIPS- ASTM A36 (GRADE 36)/ASTM A572 (GRADE 50)  
 BOLTS (EXCEPT U-BOLTS)- HIGH STRENGTH ASTM A325  
 ASTM A449, OR ASTM A490  
 U-BOLTS- MINIMUM ASTM A36  
 GALVANIZING- ASTM A153

**STEEL STRAIN POLE BASE WITH SERVICE POLE**  
 1.25" SPARE SCHEDULE 80 PVC CONDUIT; STUBBED OUT WITH LOCK WASHER ABOVE BASE. AN ARROW SHALL BE ETCHED ON THE TOP OF THE BASE TO SHOW THE LOCATION FOR POSITION OF THE SPARE CONDUIT.  
 18"  
 4" - 6" FINISHED GRADE  
 1" CHAMFER  
 STEEL STRAIN POLE  
 75% SCHEDULE 80 PVC CONDUIT WITH END BELL BUSHING FOR POLE GROUNDING CONDUCTOR  
 3" CLR  
 GROUNDING CONDUCTOR  
 GROUND ROD FOR POLE  
 17" - 18" ± CONFORM TO FIGURE AND LATEST EDITION  
**SPAN DETAIL**  
 5% MIN. SAG FOR ALL SPANS OR OTHERWISE NOTED

**STEEL STRAIN POLE BASE WITH SERVICE POLE AND POLE MOUNTED CABINET GROUNDING DETAILS**  
 1.25" SPARE SCHEDULE 80 PVC CONDUIT; STUBBED OUT WITH LOCK WASHER ABOVE BASE. AN ARROW SHALL BE ETCHED ON THE TOP OF THE BASE TO SHOW THE LOCATION FOR POSITION OF THE SPARE CONDUIT.  
 18"  
 4" - 6" FINISHED GRADE  
 1" CHAMFER  
 STEEL STRAIN POLE  
 75% SCHEDULE 80 PVC CONDUIT WITH END BELL BUSHING FOR POLE GROUNDING CONDUCTOR  
 3" CLR  
 GROUNDING CONDUCTOR  
 GROUND ROD FOR POLE  
 17" - 18" ± CONFORM TO FIGURE AND LATEST EDITION  
**SPAN DETAIL**  
 5% MIN. SAG FOR ALL SPANS OR OTHERWISE NOTED

**BACKPLATE DETAIL**  
 JOHNNYBALLS OR STRAIN ISOLATORS SHALL NOT BE USED ON THE ATTACHMENT OF THE SPAN WIRE TO THE POLE.  
 INSTALL MESSENGER THROUGH STRAND VISE AND BEND MESSENGER AT EXIT POINT.  
 MESSENGER SHALL EXTEND 8" TO 10" BEYOND THE STRAND VISE YOKE.  
 THERE SHALL BE A SEPARATE COLLAR USED FOR EACH SPAN.

**BENDING DETAIL FOR TIE BARS**  
 IF ANCHOR BOLTS ARE STRAIGHT NOT TO BE USED FOR STRUCTURAL INTEGRITY.  
 CARVED LOCATION OF SPARE CONDUIT.  
 CURB SIDE

**SPAN WIRE DETAIL**  
 PROVIDE SAG IN WIRES TO PREVENT WATER IN WEATHERHEAD

**AERIAL CORNER DETAIL**  
 INSTALL MESSENGER THROUGH STRAND VISE AND BEND MESSENGER AT EXIT POINT.  
 MESSENGER SHALL EXTEND 8" TO 10" BEYOND THE STRAND VISE YOKE.

**CONCRETE GROUNDING REQUIREMENTS:**  
 CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF CONCRETE TO COVER THE WIRE TO ANY DISCONNECT, CABINET OR POLE.  
 LEAVE TOP OF GROUND RODS EXPOSED FOR ELECTRICAL INSPECTION.  
 POLE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT AND BE TIED TO THE GROUND ROD WITH EACH RIGID STEEL GROUNDING BUSHING.  
 ALL GROUND RODS SHALL BE 24" FROM THE CONCRETE POLE BASE.

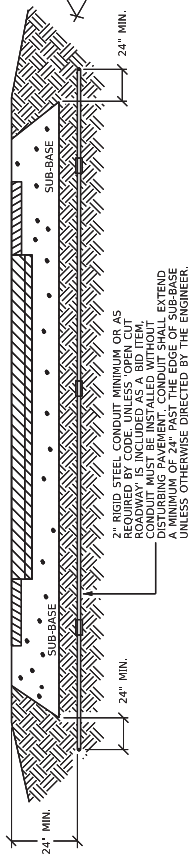
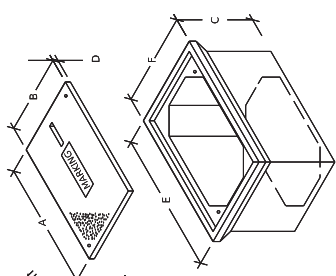
**CLAMP ASSEMBLY SPECIFICATIONS**  
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 BOLTS (EXCEPT U-BOLTS)- HIGH STRENGTH ASTM A325  
 ASTM A449, OR ASTM A490  
 U-BOLTS- MINIMUM ASTM A36  
 GALVANIZING- ASTM A153



JUNCTION BOX DIMENSIONS (NOMINAL)

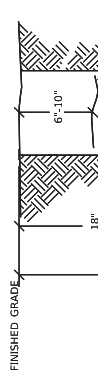
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1.75"+	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

\* MINIMUM  
NOTE: STACKABLE BOXES ARE PERMITTED

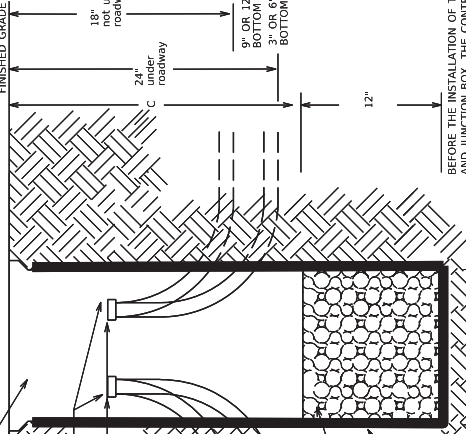


**CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL**

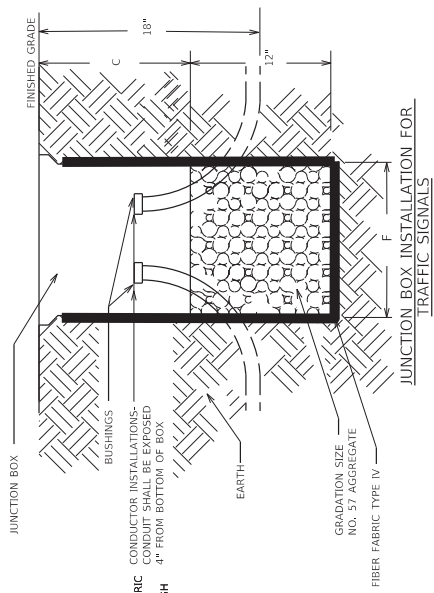
DEPTHS SHOWN FOR CONDUIT AND CONDUIT TRENCH SHALL BE AS SHOWN. CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN 9" MAXIMUM LIFT AND TO THE SATISFACTION OF THE ENGINEER.



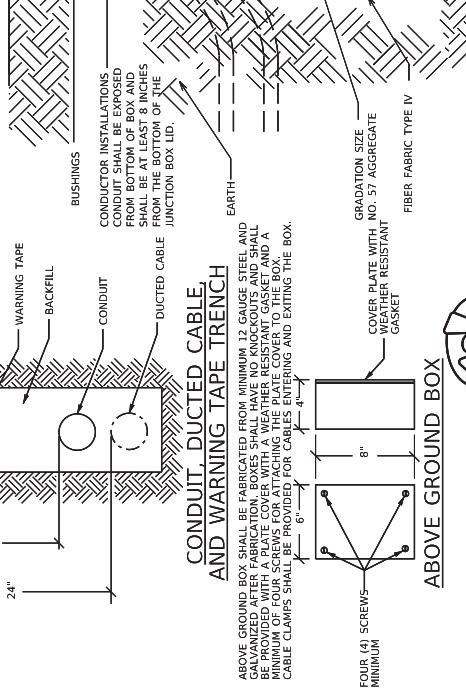
CONDUITS SHALL BE EXTENDED AT LEAST 4" FROM THE SIDE OF THE JUNCTION BOX.



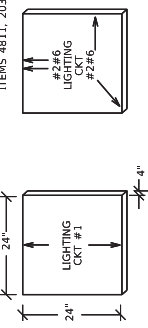
**JUNCTION BOX INSTALLATION FOR HIGHMAST LIGHTING**



**JUNCTION BOX INSTALLATION FOR TRAFFIC SIGNALS**

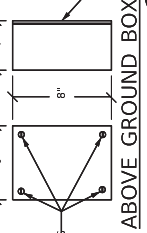


**JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING**

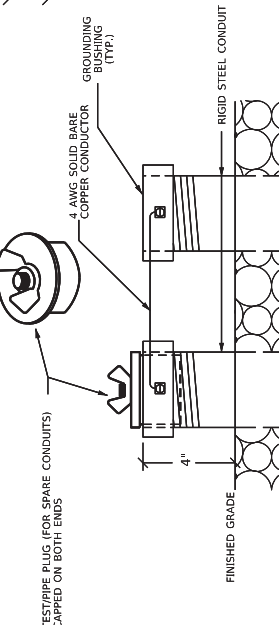


**CONDUIT, DUCTED CABLE AND WARNING TAPE TRENCH**

ABOVE GROUND BOX SHALL BE FABRICATED FROM MINIMUM 12 GAUGE STEEL AND GALVANIZED AFTER FABRICATION. BOXES SHALL HAVE NO KNOCKOUTS AND SHALL BE PROVIDED WITH A WEATHER RESISTANT COVER. A MINIMUM OF FOUR SCREWS FOR ATTACHING THE COVER TO THE BOX. CABLE CLAMPS SHALL BE PROVIDED FOR CABLES ENTERING AND EXITING THE BOX.



**ABOVE GROUND BOX**



**TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL CONCRETE CABLE MARKERS**

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 TOP OF THE HOLE. THE FABRIC SHALL BE ADHESIVELY ATTACHED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. AT 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 4011, 2032IN6505, OR 2032IN6505.

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: JUNCTION BOX DETAILS

HORIZONTAL SCALE: NA

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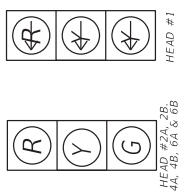
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3/13/2017

ITEM NO. COUNTY OF OLDHAM  
SHEET NO. 74

SUBMITTAL DATE: 4/12/2022  
DESIGNED BY: STANTEC

**SIGNAL HEADS**



ALL INDICATIONS L.E.D.  
ALL SIGNAL HEADS SHALL HAVE REFLECTIVE BACKPLATES

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF THE STRAIN POLE. 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 BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

CABLE	ORIGIN	ENDING	CONNECTING
1-#145C	CONTROLLER	SH 2A	SH 2A & 2B
1-#145C	CONTROLLER	SH 4A	SH 4A & 4B
1-#147C	CONTROLLER	SH 1	SH 6A & 6B

**WIRING SCHEDULE**

THE GREEN WIRE IN THE SC7C CABLE SHALL BE USED AS THE EQUIPMENT GROUND. USE THE BLACK WIRE IN THESE CABLES BE CONNECTED TO ALL METAL ITEMS IN THE SYSTEM THAT CARRIES VOLTAGE. THIS SHALL BE INCIDENTAL TO THE PROJECT.

INSTALL STEEL STRAIN POLE "C" AT  
N=4009763.4633  
E=5000497.0702  
ON POLE "C" AT HEIGHT OF 25'

INSTALL STEEL STRAIN POLE "D" AT  
N=4009738.0560  
E=5000609.6320

INSTALL STEEL STRAIN POLE "A" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "B" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "E" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "F" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "G" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "H" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "I" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "J" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "K" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "L" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "M" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "N" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "O" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "P" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "Q" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "R" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "S" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "T" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "U" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "V" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "W" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "X" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "Y" AT  
N=4009569.7490  
E=5000569.7490

INSTALL STEEL STRAIN POLE "Z" AT  
N=4009569.7490  
E=5000569.7490

POLE	HEIGHT	SPAN	ATT. WT.	CALC. SERV. MOMENT	SAG
A	32'	A-B	36.50'	119.63 K-FT	5%
B	30'	B-C	27.00'	146.68 K-FT	5%
C	32'	C-B	28.00'	161.47 K-FT	5%
D	32'	C-D	31.00'	135.05 K-FT	5%

ALL MESSENGER IS 10,800 LB

**DETECTOR SCHEDULE**

DETECTOR PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
4A	4	16	6X30	VIDEO	0'
4B	4	16	6X30	VIDEO	0'

**FLASHING YELLOW ARROW SIGNAL WIRING AND SPECIAL REQUIREMENTS**

THREE-CONDUCTOR FLASHING YELLOW ARROW SIGNAL HEADS

CONNECTION	COLOR	OUTPUT FILE CONNECTION OF EXA ON PHASE 1
RED ARROW	RED	PHASE 1 RED
YELLOW ARROW	ORANGE	PHASE 1 YELLOW
FLASHING YELLOW ARROW	BLACK	PHASE 1 GREEN
NOT USED	BLUE	N/A
EQUIPMENT GROUND	GREEN	WHITE
NOT USED	WHITE	WHITE
NOT USED	WHITE/TRACER	WHITE

THE CONTRACTOR SHALL CONNECT THE CONNECTOR LABELED "2PY 4PY 8PY 8PY" TO CONNECTOR "C0U 13.16.R.U.P" BEHIND THE OUTPUT PANEL. IF IT IS A SOLID STATE CABINET (SIBERNS) ONLY HAVE 2 CONNECTORS WHICH SIMPLY NEED TO BE CONNECTED TOGETHER.

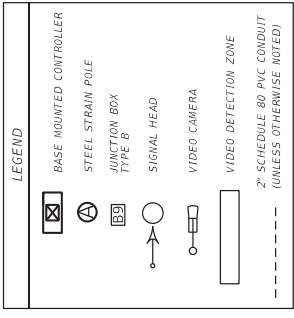
EXISTING RIGHT OF WAY LINE BASED ON RECORD PLANS AND AERIAL PHOTOGRAPHY AND IS APPROXIMATE. SURVEYED AND SHALL NOT BE CONSIDERED LEGALLY ACCURATE. CONTRACTOR SHALL ESTABLISH EXISTING RIGHT OF WAY LIMITS PRIOR TO AND CONTROL CABINET, CONDUIT AND JUNCTION BOXES SHALL BE INSTALLED WITHIN RIGHT OF WAY LIMITS.

CONTRACTOR SHALL COORDINATE GAS LINE CROSSING WITH CENTERPOINT ENERGY. SAM REID. 812-948-1860 SAHURD@CENTERPOINTENERGY.COM

METER BASE AND DISCONNECT ON US ELECTRICAL SERVICE COMPANY IF REQUIRED BY UTILITY COMPANY

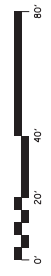
COORDINATE LOCATION OF JUNCTION BOX "B3" WITH UTILITY COMPANY. LOCATION SHALL BE INSIDE RIGHT OF WAY IN AREA TO ALLOW UTILITY COMPANY SERVICE FROM BEING INTERRUPTED. UTILITY COMPANY TO METER BASE THROUGH JB "B3"

DENSE VEGETATION (ANY REMOVAL SHALL BE CONSIDERED INCIDENTAL TO PROJECT)



**DRAWING TITLE: KY 329B (VETERANS MEMORIAL PKWY) @ KENWOOD ELEMENTRY ENT SIGNAL PLAN**

SUBMITTAL DATE: 4/12/2022  
DESIGNED BY: STANTEC



HORIZONTAL SCALE: 1" = 40'

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



**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 administrating 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

224202

Page 1 of 1

Report Date 5/20/22

### Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02562		TEMPORARY SIGNS	549.00	SQFT		\$	
0020	02650		MAINTAIN & CONTROL TRAFFIC (JEFFERSON I-71 SB @ Zorn)	1.00	LS		\$	
0030	02650		MAINTAIN & CONTROL TRAFFIC (OLDHAM I-71 NB @ KY 393)	1.00	LS		\$	
0040	02650		MAINTAIN & CONTROL TRAFFIC (OLDHAM KY 329B @ KENWOOD)	1.00	LS		\$	
0050	02775		ARROW PANEL	9.00	EACH		\$	

### Section: 0002 - SIGNS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0060	06407		SBM ALUM SHEET SIGNS .125 IN	80.00	SQFT		\$	
0070	06411		STEEL POST TYPE 2	16.00	LF		\$	
0080	21373ND		REMOVE SIGN	9.00	EACH		\$	

### Section: 0003 - TRAFFIC SIGNALS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0090	04740		POLE BASE	1.00	EACH		\$	
0100	04793		CONDUIT-1 1/4 IN	233.00	LF		\$	
0110	04811		ELECTRICAL JUNCTION BOX TYPE B	1.00	EACH		\$	
0120	04820		TRENCHING AND BACKFILLING	133.00	LF		\$	
0130	04844		CABLE-NO. 14/5C	1,612.00	LF		\$	
0140	04845		CABLE-NO. 14/7C	882.00	LF		\$	
0150	04885		MESSENGER-10800 LB	313.00	LF		\$	
0160	04886		MESSENGER-15400 LB	736.00	LF		\$	
0170	04932		INSTALL STEEL STRAIN POLE	11.00	EACH		\$	
0180	20188NS835		INSTALL LED SIGNAL-3 SECTION	20.00	EACH		\$	
0190	20266ES835		INSTALL LED SIGNAL- 4 SECTION	3.00	EACH		\$	
0200	20275EC		VIDEO DETECTION-INSTALL	7.00	EACH		\$	
0210	20390NS835		INSTALL COORDINATING UNIT	3.00	EACH		\$	
0220	21543EN		BORE AND JACK CONDUIT	100.00	LF		\$	
0230	22939ND		INSTALL LUMINAIRE POLE	1.00	EACH		\$	
0240	23157EN		TRAFFIC SIGNAL POLE BASE	45.90	CUYD		\$	
0250	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	80.00	LF		\$	
0260	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	3.00	EACH		\$	

### Section: 0004 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0270	02569		DEMOBILIZATION	1.00	LS		\$	