



**CALL NO. 202**

**CONTRACT ID. 194125**

**KENTON - BOONE - CAMPBELL COUNTIES**

**FED/STATE PROJECT NUMBER 121GR19T009-HSIP**

**DESCRIPTION IMPROVEMENTS AT VARIOUS INTERSECTIONS IN DISTRICT 6**

**WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN**

**PRIMARY COMPLETION DATE 6/30/2020**

**LETTING DATE: August 23,2019**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME August 23,2019. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

**NO PLANS ASSOCIATED WITH THIS PROJECT.**

**DBE CERTIFICATION REQUIRED - 10%**

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

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

## ADMINISTRATIVE DISTRICT - 06

### CONTRACT ID - 194125

121GR19T009-HSIP

COUNTY - BOONE

PCN - 0600818291901

HSIP 9010(390)

INDUSTRIAL ROAD (KY 1829) (MP 0.225) IMPROVEMENTS AT THE INTERSECTION OF KY 1829 AND SAFEWAY DR (MP 0.375), A DISTANCE OF 0.15 MILES.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 06-09017.50.  
GEOGRAPHIC COORDINATES LATITUDE 38:59:10.40 LONGITUDE -84:38:08.40

COUNTY - CAMPBELL

PCN - 0601900091901

HSIP 5462(030)

AA HIGHWAY (KY 9) (MP 16.300) IMPROVEMENTS AT THE INTERSECTION OF KY 9 AND KY 1998/GLORIA TERRELL (MP 16.800), A DISTANCE OF 0.50 MILES.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 06-09017.10.

GEOGRAPHIC COORDINATES LATITUDE 39:00:35.10 LONGITUDE -84:28:08.60

PCN - 0601900271901

HSIP 0272(118)

ALEXANDRIA PIKE (US 27) (MP 15.650) IMPROVEMENTS AT THE INTERSECTION OF US 27 AND KY 1998 (MP 15.800), A DISTANCE OF 0.15 MILES.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 06-09017.30.

GEOGRAPHIC COORDINATES LATITUDE 39:01:31.10 LONGITUDE -84:26:43.40

COUNTY - KENTON

PCN - 0605913031901

HSIP 8122(029)

TURKEYFOOT ROAD (KY 1303) (MP 4.737) IMPROVEMENTS AT THE INTERSECTION OF KY 1303 AND DUDLEY ROAD (MP 4.937), A DISTANCE OF 0.20 MILES.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 06-09017.20.

GEOGRAPHIC COORDINATES LATITUDE 39:00:57.20 LONGITUDE -84:34:36.70

PCN - 0605913031902

HSIP 8122(030)

TURKEYFOOT ROAD (KY 1303) (MP 3.800) IMPROVEMENTS AT THE INTERSECTION OF KY 1303 AND KY 236 (MP 4.050), A DISTANCE OF 0.25 MILES.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 06-09017.40.

GEOGRAPHIC COORDINATES LATITUDE 39:00:13.40 LONGITUDE -84:34:52.20

### COMPLETION DATE(S):

COMPLETED BY 06/30/2020	APPLIES TO ENTIRE CONTRACT
60 CALENDAR Days	CAMPBELL - KY 9 (AA HWY) AT KY 1998 (POOLES CREEK RD)
15 CALENDAR Days	BOONE - KY 1829 (INDUSTRIAL RD) AT CS 1264 (SAFEWAY DRIVE)
15 CALENDAR Days	CAMPBELL - US 27 (ALEXANDRIA PIKE) AT KY 1998 (POOLES CREEK)
15 CALENDAR Days	KENTON - KY 1303 (TURKEYFOOT RD) AT CS 4128 (DUDLEY RD)
15 CALENDAR Days	KENTON - KY 1303 (TURKEYFOOT RD) AT KY 236 (STEVENSON RD)

## **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

### **FEDERAL CONTRACT NOTES**

The Kentucky Department of Highways, in accordance with the Regulations of the United States Department of Transportation 23 CFR 635.112 (h), hereby notifies all bidders that failure by a bidder to comply with all applicable sections of the current Kentucky Standard Specifications, including, but not limited to the following, may result in a bid not being considered responsive and thus not eligible to be considered for award:

- |                                |  |
|--------------------------------|--|
| 102.02 Current Rating          | 102.08 Preparation and Delivery of Proposals |
| 102.13 Irregular Bid Proposals | 102.14 Disqualification of Bidders           |
| 102.09 Proposal Guaranty       |  |

### **CIVIL RIGHTS ACT OF 1964**

The Kentucky Department of Highways, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the Regulations of the Federal Department of Transportation (49 C.F.R., Part 21), issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the ground of race, color, or national origin.

### **NOTICE TO ALL BIDDERS**

To report bid rigging activities call: 1-800-424-9071.

The U.S. Department of Transportation (DOT) operates the above toll-free “hotline” Monday through Friday, 8:00 a.m. to 5:00 p.m. eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the “hotline” to report such activities.

The “hotline” is part of the DOT’s continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

### **SECOND TIER SUBCONTRACTS**

Second Tier subcontracts on federally assisted projects shall be permitted. However, in the case of DBE’s, second tier subcontracts will only be permitted where the other subcontractor is also a DBE. All second tier subcontracts shall have the consent of both the Contractor and the Engineer.

### **DISADVANTAGED BUSINESS ENTERPRISE PROGRAM**

It is the policy of the Kentucky Transportation Cabinet (“the Cabinet”) that Disadvantaged Business Enterprises (“DBE”) shall have the opportunity to participate in the performance of highway construction projects financed in whole or in part by Federal Funds in order to create a level playing field for all businesses who wish to contract with the Cabinet. To that end, the Cabinet will comply with the regulations found in 49 CFR Part 26, and the definitions and requirements contained therein shall be adopted as if set out verbatim herein.

The Cabinet, contractors, subcontractors, and sub-recipients shall not discriminate on the basis of race, color, national origin, or sex in the performance of work performed pursuant to Cabinet contracts. The contractor shall carry out applicable requirements of 49 CFR 26 in the award and administration of federally assisted highway construction projects. The contractor will include this provision in all its subcontracts and supply agreements pertaining to contracts with the Cabinet.

Failure by the contractor to carry out these requirements is a material breach of its contract with the Cabinet, which may result in the termination of the contract or such other remedy as the Cabinet deems necessary.

### **DBE GOAL**

The Disadvantaged Business Enterprise (DBE) goal established for this contract, as listed on the front page of the proposal, is the percentage of the total value of the contract.

The contractor shall exercise all necessary and reasonable steps to ensure that Disadvantaged Business Enterprises participate in a least the percent of the contract as set forth above as goals for this contract.

### **OBLIGATION OF CONTRACTORS**

Each contractor prequalified to perform work on Cabinet projects shall designate and make known to the Cabinet a liaison officer who is assigned the responsibility of effectively administering and promoting an active program for utilization of DBEs.

If a formal goal has not been designated for the contract, all contractors are encouraged to consider DBEs for subcontract work as well as for the supply of material and services needed to perform this work.

Contractors are encouraged to use the services of banks owned and controlled by minorities and women.

### **CERTIFICATION OF CONTRACT GOAL**

Contractors shall include the following certification in bids for projects for which a DBE goal has been established. BIDS SUBMITTED WHICH DO NOT INCLUDE CERTIFICATION OF DBE PARTICIPATION WILL NOT BE ACCEPTED. These bids will not be considered for award by the Cabinet and they will be returned to the bidder.

“The bidder certifies that it has secured participation by Disadvantaged Business Enterprises (“DBE”) in the amount of \_\_\_\_\_ percent of the total value of this contract and that the DBE participation is in compliance with the requirements of 49 CFR 26 and the policies of the Kentucky Transportation Cabinet pertaining to the DBE Program.”

**The certification statement is located in the electronic bid file. All contractors must certify their DBE participation on that page. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted.**

### **DBE PARTICIPATION PLAN**

Lowest responsive bidders must submit the *DBE Plan/ Subcontractor Request*, form TC 14-35 DBE, within **5** days of the letting. This is necessary before the Awards Committee will review and make a recommendation. **The project will not be considered for award prior to submission and approval of the apparent low bidder’s DBE Plan/Subcontractor Request.**

The DBE Participation Plan shall include the following:

1. Name and address of DBE Subcontractor(s) and/or supplier(s) intended to be used in the proposed project;
2. Description of the work each is to perform including the work item, unit, quantity, unit price and total amount of the work to be performed by the individual DBE. The Proposal Line Number, Category Number, and the Project Line Number can be found in the “material listing” on the Construction Procurement website under the specific letting;
3. The dollar value of each proposed DBE subcontract and the percentage of total project contract value this represents. DBE participation may be counted as follows:
  - a. If DBE suppliers and manufactures assume actual and contractual responsibility, the dollar value of materials to be furnished will be counted toward the goal as follows:
    - The entire expenditure paid to a DBE manufacturer;
    - 60 percent of expenditures to DBE suppliers that are not manufacturers provided the supplier is a regular dealer in the product involved. A regular dealer must be engaged in, as its principal business and in its own name, the sale of products to the public, maintain an inventory and own and operate distribution equipment; and
    - The amount of fees or commissions charged by the DBE firms for a bona fide service, such as professional, technical, consultant, or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, supplies, delivery of materials and supplies or for furnishing bonds, or insurance, providing such fees or commissions are determined to be reasonable and customary.

- b) The dollar value of services provided by DBEs such as quality control testing, equipment repair and maintenance, engineering, staking, etc.;
  - c) The dollar value of joint ventures. DBE credit for joint ventures will be limited to the dollar amount of the work actually performed by the DBE in the joint venture;
4. Written and signed documentation of the bidder's commitment to use a DBE contractor whose participation is being utilized to meet the DBE goal; and
  5. Written and signed confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment.

#### **UPON AWARD AND BEFORE A WORK ORDER WILL BE ISSUED**

Contractors must submit the signed subcontract between the contractor and the DBE contractor, along with the DBE's certificate of insurance. If the DBE is a supplier of materials for the project, a signed purchase order must be submitted to the Division of Construction Procurement.

Changes to DBE Participation Plans must be approved by the Cabinet. The Cabinet may consider extenuating circumstances including, but not limited to, changes in the nature or scope of the project, the inability or unwillingness of a DBE to perform the work in accordance with the bid, and/or other circumstances beyond the control of the prime contractor.

#### **CONSIDERATION OF GOOD FAITH EFFORTS REQUESTS**

If the DBE participation submitted in the bid by the apparent lowest responsive bidder does not meet or exceed the DBE contract goal, the apparent lowest responsive bidder must submit a Good Faith Effort Package to satisfy the Cabinet that sufficient good faith efforts were made to meet the contract goals prior to submission of the bid. Efforts to increase the goal after bid submission will not be considered in justifying the good faith effort, unless the contractor can show that the proposed DBE was solicited prior to the letting date. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted. One complete set (hard copy along with an electronic copy) of this information must be received in the Division of Contract Procurement no later than 12:00 noon of the tenth calendar day after receipt of notification that they are the apparent low bidder.

Where the information submitted includes repetitious solicitation letters it will be acceptable to submit a sample representative letter along with a distribution list of the firms solicited. Documentation of DBE quotations shall be a part of the good faith effort submittal as necessary to demonstrate compliance with the factors listed below which the Cabinet considers in judging good faith efforts. This documentation may include written subcontractors' quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

The Good Faith Effort Package shall include, but may not be limited to information showing evidence of the following:

1. Whether the bidder attended any pre-bid meetings that were scheduled by the Cabinet to inform DBEs of subcontracting opportunities;
2. Whether the bidder provided solicitations through all reasonable and available means;
3. Whether the bidder provided written notice to all DBEs listed in the DBE directory at the time of the letting who are prequalified in the areas of work that the bidder will be subcontracting;
4. Whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainty whether they were interested. If a reasonable amount of DBEs within the targeted districts do not provide an intent to quote or no DBEs are prequalified in the subcontracted areas, the bidder must notify the Disadvantaged Enterprise Business Liaison Officer (DEBLO) in the Office of Civil Rights and Small Business Development to give notification of the bidder's inability to get DBE quotes;
5. Whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise perform these work items with its own forces;
6. Whether the bidder provided interested DBEs with adequate and timely information about the plans, specifications, and requirements of the contract;
7. Whether the bidder negotiated in good faith with interested DBEs not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached;
8. Whether quotations were received from interested DBE firms but were rejected as unacceptable without sound reasons why the quotations were considered unacceptable. The fact that the DBE firm's quotation for the work is not the lowest quotation received will not in itself be considered as a sound reason for rejecting the quotation as unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a DBE quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy DBE goals;
9. Whether the bidder specifically negotiated with subcontractors to assume part of the responsibility to meet the contract DBE goal when the work to be subcontracted includes potential DBE participation;
10. Whether the bidder made any efforts and/or offered assistance to interested DBEs in obtaining the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal; and
11. Any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include DBE participation.

### **FAILURE TO MEET GOOD FAITH REQUIREMENT**

Where the apparent lowest responsive bidder fails to submit sufficient participation by DBE firms to meet the contract goal and upon a determination by the Good Faith Committee based upon the information submitted that the apparent lowest responsive bidder failed to make sufficient reasonable efforts to meet the contract goal, the bidder will be offered the opportunity to meet in person for administrative reconsideration. The bidder will be notified of the Committee's decision within 24 hours of its decision. The bidder will have 24 hours to request reconsideration of the Committee's decision. The reconsideration meeting will be held within two days of the receipt of a request by the bidder for reconsideration.

The request for reconsideration will be heard by the Office of the Secretary. The bidder will have the opportunity to present written documentation or argument concerning the issue of whether it met the goal or made an adequate good faith effort. The bidder will receive a written decision on the reconsideration explaining the basis for the finding that the bidder did or did not meet the goal or made adequate Good Faith efforts to do so.

The result of the reconsideration process is not administratively appealable to the Cabinet or to the United States Department of Transportation.

The Cabinet reserves the right to award the contract to the next lowest responsive bidder or to rebid the contract in the event that the contract is not awarded to the low bidder as the result of a failure to meet the good faith requirement.

### **SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT**

Failure by the prime contractor to fulfill the DBE requirements of a project under contract or to demonstrate good faith efforts to meet the goal constitutes a breach of contract. When this occurs, the Cabinet will hold the prime contractor accountable, as would be the case with all other contract provisions. Therefore, the contractor's failure to carry out the DBE contract requirements shall constitute a breach of contract and as such the Cabinet reserves the right to exercise all administrative remedies at its disposal including, but not limited to the following:

- Disallow credit toward the DBE goal;
- Withholding progress payments;
- Withholding payment to the prime in an amount equal to the unmet portion of the contract goal; and/or
- Termination of the contract.

### **PROMPT PAYMENT**

The prime contractor will be required to pay the DBE within seven (7) working days after he or she has received payment from the Kentucky Transportation Cabinet for work performed or materials furnished.

### **CONTRACTOR REPORTING**

All contractors must keep detailed records and provide reports to the Cabinet on their progress in meeting the DBE requirement on any highway contract. These records may include, but shall not be limited to payroll, lease agreements, cancelled payroll checks, executed subcontracting agreements, etc. Prime contractors will be required to complete and submit a **signed and notarized** Affidavit of Subcontractor Payment (TC 18-7) and copies of checks for any monies paid to each DBE subcontractor or supplier utilized to meet a DBE goal. These documents must be completed and signed within 7 days of being paid by the Cabinet.

Payment information that needs to be reported includes date the payment is sent to the DBE, check number, Contract ID, amount of payment and the check date. Before Final Payment is made on this contract, the Prime Contractor will certify that all payments were made to the DBE subcontractor and/or DBE suppliers.

#### **\*\*\*\*\* IMPORTANT \*\*\*\*\***

**Please mail the original, signed and completed TC (18-7) Affidavit of Subcontractor Payment form and all copies of checks for payments listed above to the following address:**

Office of Civil Rights and Small Business Development  
6<sup>th</sup> Floor West 200 Mero Street  
Frankfort, KY 40622

The prime contractor should notify the KYTC Office of Civil Rights and Small Business Development seven (7) days prior to DBE contractors commencing work on the project. The contact in this office is Mr. Melvin Bynes. Mr. Bynes' current contact information is email address – [melvin.bynes2@ky.gov](mailto:melvin.bynes2@ky.gov) and the telephone number is (502) 564-3601.

### **DEFAULT OR DECERTIFICATION OF THE DBE**

If the DBE subcontractor or supplier is decertified or defaults in the performance of its work, and the overall goal cannot be credited for the uncompleted work, the prime contractor may utilize a substitute DBE or elect to fulfill the DBE goal with another DBE on a different work item. If after exerting good faith effort in accordance with the Cabinet's Good Faith Effort policies and procedures, the prime contractor is unable to replace the DBE, then the unmet portion of the goal may be waived at the discretion of the Cabinet.

7/19/2019

**LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC – CARGO PREFERENCE ACT (CPA).**

**(REV 12-17-15) (1-16)**

SECTION 7 is expanded by the following new Article:

102.10 **Cargo Preference Act – Use of United States-flag vessels.**

Pursuant to Title 46CFR Part 381, the Contractor agrees

- To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

- To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph 1 of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

- To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

**NATIONAL HIGHWAY**

Be advised this project is on the NATIONAL HIGHWAY SYSTEM.

**ASPHALT MIXTURE**

Unless otherwise noted, the Department estimates the rate of application for all asphalt mixtures to be 110 lbs/sy per inch of depth.

**DGA BASE**

Unless otherwise noted, the Department estimates the rate of application for DGA Base to be 115 lbs/sy per inch of depth.

**OPTION A**

Be advised that the Department will accept compaction of asphalt mixtures furnished for driving lanes and ramps, at 1 inch (25mm) or greater, on this project according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specifications. The Department will require joint cores as described in Section 402.03.02 for surface mixtures only. The Department will accept compaction of all other asphalt mixtures according to OPTION B.

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

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### **CAUTION**

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

### **STATIONING**

The contractor is advised that the planned locations of work were established from the following stations:

- **6-9017.10 - KY 9 (AA HWY) @ KY 1998 (Pooles Creek Road) & Gloria Terrell Drive:**  
KY 9 Station 125+76 is the center of the intersection of KY 9 and KY 1998 and Gloria Terrell Drive in Campbell County. This location is MP 16.538 along KY 9.
- **6-9017.20 - KY 1303 (Turkeyfoot Road) @ CS 4128 (Dudley Road):**  
KY 1303 Station 15+69 is the center of the intersection of KY 1303 and CS 4128 in Kenton County. This location is MP 4.868 along KY 1303.
- **6-9017.30 - US 27 (Alexandria Pike) @ KY 1998 (Pooles Creek Road & Industrial Road):**  
US 27 Station 392+00 is the center of the intersection of US 27 and KY 1998 (Industrial Road) and US 27 Station 392+12 is the center of the intersection of US 27 and KY 1998 (Pooles Creek Road) in Campbell County. This location is MP 15.763 along US 27.
- **6-9017.40 - KY 1303 (Turkeyfoot Road) @ KY 236 (Stevenson Road) & Misty Creek Drive:**  
KY 1303 Station 11+01 is the center of the intersection of KY 1303 and KY 236 and Misty Creek Drive in Kenton County. This location is MP 3.972 along KY 1303.
- **6-9017.50 - KY 1829 (Industrial Road) @ CS 1264 (Safeway Drive) & Hillcrest Drive:**  
KY 1829 Station 15+18 is the center of the intersection of KY 1829 and CS 1264 and Hillcrest Drive in Boone County. This location is MP 0.265 along KY 1829.

The existing mile marker signs may not correspond to the proposed work locations.

### **ON-SITE INSPECTION**

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

### **RIGHT OF WAY LIMITS**

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

## General Notes & Description of Work

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### **CONTROL**

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

### **DESCRIPTION OF WORK**

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

#### **6-9017.10 - KY 9 (AA HWY) @ KY 1998 (Pooles Creek Road) & Gloria Terrell Drive:**

Construct right turn lanes for KY 9. Work involves constructing a designated right turn lane for Northbound and Southbound KY 9. Work includes DGA base, asphalt pavement for right turn lanes and shoulders, sawcut existing pavement, longitudinal edge key, perforated and non-perforated pipe underdrain and headwall, shoulder rumble strips, asphalt wedge curb, flume inlet Type 2, and guardrail. Refer to the Special Notes, Summary Sheets, Typical Sections, Plan Sheets, Pipe Drainage Sheets, and Cross Sections for more information.

Construct Standard Barrier Median. Work involves constructing standard barrier median in KY 9 median to prevent left turns into and out of the Waffle House entrance on KY 9. Work involves standard barrier median, sawcut, flexible delineator posts, Curb Box Inlet Ty A, Storm Sewer Pipe, and Remove Existing DBI. Existing Slotted Drain Pipe and DBI in vicinity of proposed Standard Barrier Median shall be removed and backfilled with flowable fill (incidental to Remove Drop Box Inlet). Quantities of Perforated Pipe, Crushed Aggregate Size No 57, Geotextile Fabric, and Cored Hole Drainage Box Connection have been included in proposal in the event median underdrain is encountered during Construction of Standard Barrier Median. Refer to the Special Notes, Summary Sheets, Median Drainage Detail, Pipe Drainage Sheets, and Cross Sections for more information.

Traffic Signals. Replace Loop Detectors in the left turn lanes due to the construction of the right turn lanes. Replace wiring and install junction box for NB KY 9 Advance Warning Flasher. Refer to the Special Notes, Summary Sheets, and Signal Modification Plan Sheet for more information.

NOTE: The advanced warning flashers on northbound and southbound KY 9 @ KY 1998 shall remain operational at all times. Short disruptions in operation of 15 minutes or less are allowed to make temporary and/or permanent connections to maintain service to the advance warning flashers. Once power is disconnected from the advance warning flashers, the contractor shall work continuously to immediately restore the system to full operation. District 6 Traffic shall be given a 3 day notice prior to the beginning of this work. The contractor shall not disconnect power from the advance warning flashers, or perform any other work that will disrupt its operation, without a District 6 Traffic representative onsite.

## General Notes & Description of Work

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Signing. Install proposed signing, NO PARKING SIGN and signs due to right turn lane construction, as shown on the Signing Plan Sheet. Refer to the Signing Plan sheet and Signing Summary for more information. Refer to the Special Note for Signing for more information.

GMSS TYPE D Surface Mounts. A quantity of GMSS Type D Surface Mount has been included for the installation of sign posts on existing median pavement at the approximate locations shown on the Plan Sheet and Summary Sheet. Refer to the Special Note for Signing for more details concerning Type D Surface Mounts.

Striping. Remove existing stop bars as noted in the Striping Summary. Install proposed striping, relocating stop bars, cross hatch island, and thermoplastic arrows due to right turn lane construction, as shown on the Striping Plan Sheet. Refer to the Striping and Pavement Marking Summary Sheet for more information.

Channel Lining. A quantity of 25 Tons of Channel Lining Class II has been included in the Drainage Summary for use at the locations indicated on the Drainage Summary. The Contractor and Engineer should work together to determine the location and best use of Channel Lining throughout this project. The Engineer will make the final determination as to the needed quantities and placement of Channel Lining.

Erosion Control Blanket. A quantity of 857 square yards of Erosion Control Blanket has been included in the contract for potential use along areas of regraded shoulders, ditch lines, fills slopes and/or back slopes, inlets and outlets of pipes, and any other areas as directed by the Engineer. The Contractor and Engineer should work together to determine the location and best use of Erosion Control Blanket throughout this project. The Engineer will make the final determination as to the quantities and placement of Erosion Control Blanket.

### **6-9017.20 - KY 1303 (Turkeyfoot Road) @ CS 4128 (Dudley Road):**

Traffic Signals. Install Supplemental Signal Head for KY 1303 northbound approach. Replace all existing signals on CS 4128 (Dudley Road) approaches with signal heads that have reflective backplates and LED indications. Refer to the Special Notes, Summary Sheets, and Signal Modification Plan Sheet for more information.

Striping. Water blast existing striping, remove thermoplastic arrows, and remove pavement marker lenses as shown on the Striping Plan Sheet. Install proposed striping, lengthening left turn from Northbound KY 1303 onto Westbound CS 4128 (Dudley Road), and thermoplastic arrows as shown on the Striping Plan Sheet. Refer to the Striping and Pavement Marking Summary Sheet for more information. Refer to the Pavement Marking Sepias for more information.

### **6-9017.30 - US 27 (Alexandria Pike) @ KY 1998 (Pooles Creek Road & Industrial Road):**

Traffic Signals. Install Supplemental Signal Head for US 27 approaches. Replace 5-section doghouse on US 27 with 3-Section Protected Left Turn and 3-Section over the thru lane. Replace existing signals on KY 1998 and KY 8 with signal heads that have reflective backplates and LED indications. Rewire the traffic signals with Cable No. 14/5C. Refer to the Special Notes, Summary Sheets, and Signal Modification Plan Sheet for more information.

NOTE: Notify District 6 Traffic two weeks in advance of any signal work.

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Remove Signal Equipment. Remove all existing signs (Lane Designation and Left Turn Yield on Green Signs) located on signal wires. When an existing sign on a signal span is indicated to be removed, such removal shall be incidental to the bid item: Remove Signal Equipment.

Striping. Water blast existing striping, remove thermoplastic arrows, and remove pavement marker lenses as shown on the Striping Plan Sheet. Install proposed striping and thermoplastic arrows as shown on the Striping Plan Sheet. Refer to the Striping and Pavement Marking Summary Sheet for more information. Refer to the Pavement Marking Sepias for more information.

Qwick Curb Median Separator. Install Qwick Curb Median Separator on Northbound US 27 as shown on the Plan Sheet. Stake and obtain approval from Engineer before installation. Refer to the Special Note for Lane Separator Curb for more information. Install No Left Turn Sign at the entrance as shown on the plan sheet.

### **6-9017.40 - KY 1303 (Turkeyfoot Road) @ KY 236 (Stevenson Road) & Misty Creek Drive:**

Traffic Signals. Replace all existing signals on KY 1303 approaches with signal heads that have reflective backplates and LED indications. Refer to the Special Notes, Summary Sheets, and Signal Modification Plan Sheet for more information.

Striping. Water blast existing striping, remove thermoplastic arrows, and remove pavement marker lenses as shown on the Striping Plan Sheet. Install proposed striping and thermoplastic arrows as shown on the Striping Plan Sheet. Refer to the Striping and Pavement Marking Summary Sheet for more information. Refer to the Pavement Marking Sepias for more information.

### **6-9017.50 - KY 1829 (Industrial Road) @ CS 1264 (Safeway Drive) & Hillcrest Drive:**

Traffic Signals. Replace all signals on KY 1829, CS 1264, and Hillcrest Drive approaches with signal heads that have reflective backplates and LED indications. Refer to the Special Notes, Summary Sheets, and Signal Modification Plan Sheet for more information.

Remove Signal Equipment. Remove existing I-75 North sign located on signal wire span B-C. When an existing sign on a signal span is indicated to be removed, such removal shall be incidental to the bid item: Remove Signal Equipment.

Signing. Install proposed I-75 Left Lane and Right Turn Only sign as shown as shown on the Signing Plan Sheet. Refer to the Signing Plan sheet and Signing Summary for more information. Refer to the Special Note for Signing for more information.

Qwick Curb Median Separator. Install Qwick Curb Median Separator on Northbound KY 1829 as shown on the Striping Plan Sheet. Stake and obtain approval from Engineer before installation. Refer to the Special Note for Lane Separator Curb for more information. Install No Left Turn Sign at the entrance as shown on the plan sheet.

Striping. Remove existing striping by water blasting and thermoplastic arrows by pavement marking removal as shown on the Striping Plan Sheet. Remove Pavement Marker Lens as shown on the Striping Plan Sheet. Install proposed striping, eliminating the two way left turn lane from KY 1829 and CS 1264

General Notes & Description of Work  
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intersection back to Columbia Drive, as shown on the Striping Plan Sheet. Refer to the Striping and Pavement Marking Summary Sheet for more information.

## SPECIAL NOTE FOR STAKING

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Perform Contractor Staking according to Section 201; except, in addition to the requirements of Section 201, perform the following:

1. Contrary to Section 201, perform items 1-3 usually performed by the Engineer.
2. Verify the dimensions, type, and quantities of the culvert pipes, entrance pipes, and/or box culverts as listed and detailed in the proposal, and determine flow line elevations and slopes necessary to provide positive drainage. Revise as necessary to accommodate the existing site conditions; to provide proper alignment of the drainage structures with existing and/or proposed ditches, stream channels, swales, and the roadway lines and grades; and to ensure positive drainage upon completion of the work.
3. Using stakes, paint marks on the pavement, mag nails, and/or any other means approved by the Engineer, the Contractor shall mark and/or stake the proposed sign locations in the field. NOTE: The proposed signs are listed in the proposal by approximate location and are NOT to be taken as the exact location for the signs. During staking operations the Contractor shall review the signing layout and existing field conditions and look for potential conflicts, including but not limited to utilities, driveways, visual obstructions, etc. When conflicts are found, adjust the staked location of signs to mitigate conflicts. Because the sign locations in the proposal are approximate and the location of some signs may need to be adjusted due to conflicts, during staking operations the Contractor shall refer to and utilize the information in Sections 2C.05 through 2C.15 and Section 2C.46; Tables 2C-4, 2C-5, and 2C-6; and Figure 2C-2 of the Manual on Uniform on Traffic Control Devices (MUTCD), current edition. These Sections, Tables, and Figures within the MUTCD cover items such as: appropriate sign location, advance placement distances, and spacing requirements for signing. The intent is for the proposed signs to be consistent with, and meet the requirements of, the MUTCD. Once the proposed sign locations have been staked, notify and coordinate with the District Traffic Engineer, and perform a review of the staked locations. Adjust the staked locations, as directed by the District Traffic Engineer and obtain approval of the final staked locations. This review will also be used to determine if there are any existing signs that require removal and/or relocation. Provide the District Traffic Engineer with 2 weeks' notice when a route will be ready for a review of the staked locations. NOTE: The District Traffic Engineer may determine that the proposed signing, including sign types and messages, needs to be adjusted and/or modified from what is shown in the proposal. Therefore, the Contractor shall not order any sign material for a route until the route has been staked and final sign location approval has been given by the District Traffic Engineer.
4. Produce and furnish to the Engineer "As Built" information for the drainage improvements and the construction of the right turn lanes and standard barrier median at 6-9017.10 (KY 9 and KY 1998). For the drainage improvements, as built information will consist of a final record of the actual types, sizes, and locations of the drainage structures (i.e. box inlets, headwalls, junction boxes, etc.), culvert pipes, and/or box culverts constructed. Final elevation data of the drainage improvements is not necessary.

Staking  
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5. Using paint marks on the pavement, and/or any other means approved by the Engineer, the Contractor shall layout and pre-mark the proposed striping, pavement markings, etc. Adjust as necessary to accommodate the existing site conditions and to provide proper alignment of the proposed thru and turning lanes. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the striping and/or pavement markings.
6. Using paint marks on the pavement, and/or any other means approved by the Engineer, the Contractor shall layout and pre-mark the proposed Qwick Curb Median Separator limits at the intersections of US 27 and KY 1998 in Campbell County and KY 1829 and CS 1264 in Boone County. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the Qwick Curb Median Separator.
7. Prior to incorporating into the work, obtain the Engineers approval of all revisions determined by the Contractor.
8. Perform any and all other staking operations required to control and construct the work.

## **SPECIAL NOTE FOR EROSION CONTROL**

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### **I. DESCRIPTION**

Perform all erosion and water pollution control work in accordance with any other notes in the Proposal, the Department's Standard and Interim Supplemental Specifications, the Special Provisions and Special Notes, and the Standard and Sepia Drawings, current editions, or as directed by the Engineer. Section references are to the Standard Specifications. This work shall consist of:

(1) Developing and preparing a Best Management Practices Plan (BMP) tailored to suit the specific construction phasing for each site within the project; (2) Preparing the project site for construction, including locating, furnishing, installing, and maintaining temporary and/or permanent erosion and water pollution control measures as required by the BMP prior to beginning any earth disturbing activity on the project site; (3) Clearing and grubbing and removal of all obstructions as required for construction; (4) Removing all erosion control devices when no longer needed; (5) Restoring all disturbed areas as nearly as possible to their original condition; (6) Preparing seedbeds and permanently seeding all disturbed areas; (7) Providing a Kentucky Erosion Prevention and Sediment Control Program (KEPSC) qualified inspector; and (8) Performing any other work to prevent erosion and/or water pollution as specified by this contract, required by the BMP, or as directed by the Engineer.

### **II. MATERIALS**

Furnish materials in accordance with these notes, the Standard Specifications and Interim Supplemental Specifications, applicable Special Provisions and Special Notes, and the Standard and Sepia Drawings, current editions. Provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual. Unless directed otherwise by the Engineer, make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing.

### **III. CONSTRUCTION**

Be advised, these Erosion Control Notes do not constitute a BMP plan for the project. Jointly with the Engineer, prepare a site specific BMP plan for each drainage area within the project in accordance with Section 213. Provide a unique BMP at each project site using good engineering practices taking into account existing site conditions, the type of work to be performed, the construction phasing, methods, and the techniques to be utilized to complete the work. Be responsible for all erosion prevention, sediment control, and water pollution prevention measures required by the BMP for each site. Represent and warrant compliance with the Clean Water Act (33 USC Section 1251 et seq.), the 404 Permit, the 401 Water Quality Certification, and applicable state and local government agency laws, regulations, rules, specifications, and permits. Contrary to Section 105.05, in case of discrepancy between these notes, the Standard Specifications, Interim Supplemental Specifications, Special Provisions and Special Notes, Standard and Sepia Drawings, and such state and local government agency requirements, adhere to the most restrictive requirement.

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Conduct operations in such a manner as to minimize the amount of disturbed ground during each phase of the construction and limit the haul roads to the minimum required to perform the work. Preserve existing vegetation not required to be removed by the work or the contract. Seed and/or mulch disturbed areas at the earliest opportunity. Use silt fence, silt traps, temporary ditches, brush barriers, erosion control blankets, sodding, channel lining, and other erosion control measures in a timely manner as required by the BMP and as directed or approved by the Engineer. Prevent sediment laden water from leaving the project, entering an existing drainage structure, or entering a stream.

Provide for erosion control measures to be in place and functioning prior to any earth disturbance within a drainage area. Compute the volume and size of silt control devices necessary to control sediment during each phase of construction. All silt control devices shall be sized to retain a volume of 3,600 cubic feet per disturbed contributing acre. Remove sediment from silt traps before they become a maximum of ½ full. Maintain silt fence by removing accumulated trappings and/or replacing the geotextile fabric when it becomes clogged, damaged, or deteriorated, or when directed by the Engineer. Properly dispose of all materials trapped by erosion control devices at approved sites off the right of way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.

As work progresses, add or remove erosion control measures as required by the BMP, applicable to the Contractor's project phasing, construction methods, and techniques. Update the volume calculations and modify the BMP as necessary throughout the duration of the project. Ensure that an updated BMP is kept on site and available for public inspection throughout the life of the project.

The required volume at each Silt Trap shall be computed based on the Up Gradient Contributing Areas that are disturbed and/or stabilized to the satisfaction of the Engineer. The required volume calculation for each Silt Trap shall be determined by the Contractor and verified by the Engineer. The required volume at each Silt Trap may be reduced by the following amounts:

- Up Gradient Areas not disturbed (acres)
- Up Gradient Areas that have been reclaimed and protected by Erosion Control Blanket or other ground protection material such as Temporary Mulch (acres)
- Up Gradient Areas that have been protected by Silt Fence (acres) – Areas protected by Silt Fence shall be computed at a maximum rate of 100 square feet per linear foot of Silt Fence
- Up Gradient Areas that have been protected by Silt Traps (acres)

The use of Temporary Mulch is encouraged.

Silt Trap Type B shall always be placed at the collection point prior to discharging into a Blue Line Stream or onto an adjacent Property Owner. Where overland flow exists, a Silt Fence or other filter devices may be used.

After all construction is complete, restore all disturbed areas in accordance with Section 212. Completely remove all temporary erosion control devices not required as part of the permanent erosion control from the construction site. Prior to removal, obtain the Engineer's concurrence of items to be removed. Grade the remaining exposed earth (both on and off the Right-of-Way) as nearly

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as possible to its original condition, or as directed by the Engineer. Prepare the seed bed areas and sow all exposed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

**IV. MEASUREMENT**

The Department will measure the various erosion control items according to Section 212.04 and Section 213.04, as applicable.

**V. BASIS OF PAYMENT**

The Department will make payment for the various erosion control items according to Section 212.04 and Section 213.04, as applicable.

## SPECIAL NOTE FOR QWICK CURB MEDIAN SEPARATOR

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### I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

- (1) Maintaining and Controlling Traffic; (2) Installing Qwick Kurb<sup>®</sup> brand lane separator curb; and (3) All other work specified in the Contract.

### II. MATERIALS

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Lane Separator Curb.** Furnish Qwick Kurb<sup>®</sup> brand lane separator curb guidance system that includes modular longitudinal curb sections and transition end sections, and delineator posts/panels. The longitudinal units of the system shall interface with each other to form a continuous longitudinal channelizing system. The design of the system shall allow a radius or curve as needed by roadway geometry. The complete system shall be compliant with NCHRP 350 or MASH. Manufacturer's documentation validating this compliance shall be provided to the Engineer prior to installation. System color shall match the adjacent pavement marking color.

- a. Longitudinal Units.** The longitudinal units shall have a mountable design to allow for emergency vehicle crossovers. The longitudinal units shall be designed to allow for cross drainage under the units. Individual units of the system shall have a minimum length of 40 inches, maximum height of 4 inches and maximum width of 12 inches. The longitudinal base shall include retroreflective markings to match the system color. At least one upright post is required for each longitudinal curb unit.
- b. Upright Posts.** Upright posts shall be a minimum of 26 inches in height and a minimum of 2 inches in width. Upright posts are to be uniformly spaced at intervals no greater than 44 inches along the system. Post color should match the longitudinal curb unit and adjacent pavement marking color. Each post shall have retroreflective markings of color matching the post, longitudinal system, and adjacent pavement marking. Upright posts should be easily replaceable under traffic conditions and shall be fabricated to withstand repeated impacts and return to a complete upright position with minimal maintenance to the unit.

Qwick Curb Median Separator  
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### III. CONSTRUCTION METHODS

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Site Preparation.** Be responsible for all site preparation including, but not limited to: clearing and grubbing, staking, excavation, backfill, and removal of obstructions or any other material not covered by other items. Perform site preparation only as approved, or directed, by the Engineer.
- C. **Lane Separator Curb.** Assemble and fasten the lane separator curb system to the underlying pavement or bridge deck according to the manufacturer's recommendations.
- D. **Property Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the Contractor's activities. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- E. **Caution.** The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

### IV. METHOD OF MEASUREMENT

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Site Preparation.** Other than the bid items listed, the Department will NOT measure Site Preparation for payment, but shall be incidental to the project bid items.
- C. **Lane Separator Curb.** The Department will measure Qwick Kurb<sup>®</sup> brand lane separator curb in Linear Feet.

### V. BASIS OF PAYMENT

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Lane Separator Curb.** The Department will make payment for the completed and accepted quantities under the bid item "Qwick Curb Median Separator." Payment at the Contract unit price per linear foot shall be full compensation for furnishing all materials, equipment, tools, hardware, labor, and incidentals necessary to properly install the Qwick Kurb<sup>®</sup> brand lane separator curb according to the manufacturer's installation instructions, these notes, and/or as directed by the Engineer.

## SPECIAL NOTES FOR PIPE REPLACEMENTS / EXTENSIONS

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### I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Maintaining and Controlling Traffic; (2) Constructing pipe replacements and/or pipe extensions; (3) Embankment and/or Excavation; (4) Erosion Control; and (6) Any other work as specified by this contract.

### II. MATERIALS

Provide for sampling and testing of all materials in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these notes.

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Culvert Pipe.** Furnish pipe meeting the requirements of Section 810. Select pipe for pH range Medium and minimum fill cover height according to the applicable Standard or Sepia Drawings, current editions. Verify maximum and minimum fill cover height required for new pipe prior to construction and obtain the Engineer's approval of the class or gauge of pipe and type of coating prior to delivering pipe to project. Furnish approved connecting bands or pipe anchors and toe walls.

**C. Flowable Fill.** Furnish Flowable Fill for Pipe Backfill per Section 601.03.03(B).

**D. Erosion Control.** See Special Note for Erosion Control.

### III. CONSTRUCTION METHODS

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Erosion Control.** See Special Note for Erosion Control.

**C. Site Preparation.** Be responsible for all site preparation including, but not limited to, saw cutting and removing pavement; clearing and grubbing; staking; incidental excavation and backfilling; common and solid rock excavation; embankment in place; removal of obstructions, or any other items; restoration of pavements, slopes, and all disturbed areas; final dressing and cleanup; and disposal of materials. Limit clearing and grubbing to the absolute minimum required to construct the drainage features. Perform all site preparation only as approved or directed by the Engineer.

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- D. Removing Headwalls, Pipe, and Excavation.** Remove existing headwalls and lengths of culvert and/or entrance pipes at the approximate locations noted on the summary. The Engineer will determine the exact locations and lengths of pipe to be removed at the time of construction. When removing pipe, or any portion of pipe under the roadway, saw cut the existing asphalt pavement and base to a neat edge prior to excavation and removal of the existing pipe. NOTE: Saw cutting the pavement shall be incidental. Obtain the Engineer's approval of trench width and/or saw cutting limits prior to saw cutting the pavement. Excavate the trench and remove the pipe as directed, or approved, by the Engineer without disturbing existing underground utilities.
- E. Constructing Pipe, Headwalls, and Drainage Boxes.** Construct culvert and/or entrance pipes, pipe extensions, headwalls, drainage boxes, and other drainage structures at the locations shown in the proposal or as designated by the Engineer. The contractor will establish, with the approval of the Engineer, the final centerlines, flow lines, and skews to obtain the best fit with the existing and/or proposed ditches and other proposed improvements. (See the Special Note for Staking.) Construct pipe bedding according to Section 701 and the applicable Standard or Sepia Drawings, current editions. Use approved connecting bands or concrete anchors as required. Prior to backfilling pipe, obtain the Engineer's approval of the pipe installation. Provide Positive drainage upon completion of pipe installation.
- F. Pipe Backfill.** Backfill entrance pipes according to Section 701.03.06. Contrary to Section 701.03.06, backfill culvert pipes with flowable fill for the width of the roadway and as shown on the Pipe Replacement Detail. Steel plates will likely be required to maintain traffic while the flowable fill cures. Once the flowable fill has sufficiently cured, place the Asphalt Base in lifts with thicknesses of 3-4 inches, up to the surface of the existing pavement. Seal with Leveling & Wedging. Allow the asphalt base and leveling & wedging to be exposed to traffic for a minimum of 14 days to allow for settlement. During the waiting period, level & wedge any settlement as directed by the Engineer. After the waiting period has been met for the last pipe replacement constructed, the final milling and/or surfacing operations can begin, unless directed otherwise by the Engineer.
- G. Embankments.** Backfill pipe and culvert extensions, and construct shoulder embankments as directed by the Engineer. The contractor shall bench into the existing slope and apply proper compaction according to Section 206. For more information and details on benching, refer to Note 2 on the detail sheet titled: DITCHING & SHOULDERING AND EMBANKMENT BENCHING DETAILS, found elsewhere in the Proposal. Provide positive drainage of ditches, shoulders, and slopes at all times during, and upon completion of construction.
- H. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Repair or replace damaged roadway features in like kind materials and design, as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.

Pipe Replacements/Extensions  
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- I. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs as a result of pipe replacement and pipe extension operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.
- J. Right-of-Way Limits.** The Department has not established exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.
- K. Clean Up, Disposal of Waste.** Clean up the project area as work progresses. Dispose of all removed concrete, pipe, pavement, debris, excess and unsuitable excavation, and all other waste at approved sites off the Right of Way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- L. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- M. Erosion Control.** See the Special Note for Erosion Control.

**IV. METHOD OF MEASUREMENT**

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Site Preparation.** Other than the bid items listed, site preparation will NOT be measured for payment, but shall be incidental to culvert and/or entrance pipe bid items, as applicable.

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- C. Remove Headwall.** The Department will measure the removal of existing headwalls as Each. Any excavation, including rock excavation, necessary to remove existing headwalls will NOT be measured for payment, but shall be incidental to the bid item "Remove Headwall".
- D. Remove Pipe.** Removal of existing culvert and entrance pipe shall be measured according to Section 701.04.14. Any excavation, including rock excavation, necessary to remove existing pipe will NOT be measured for payment, but shall be incidental to the bid item "Remove Pipe".
- E. Culvert and Entrance Pipe.** The Department will measure the quantities according to Section 701.04. Any excavation, including rock excavation, necessary to install culvert or entrance pipe shall be incidental to the corresponding pipe bid items.
- F. Headwalls, Drainage Boxes.** The Department will measure according to Section 710. Any excavation, including rock excavation, necessary to construct headwalls and/or drainage boxes will NOT be measured for payment, but shall be incidental to the applicable bid item.
- G. Excavation, Pipe Backfill, Embankments.** The Department will NOT measure for payment the following items: any excavation, including rock excavation, necessary to remove the existing pipe and/or install the proposed culvert or entrance pipe, pipe backfill material, flowable fill, and re-constructing shoulder embankments, but shall considered these items incidental to the bid items for culvert and entrance pipe.
- H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental to the project bid items. Seeding and Protection shall be measured according to Section 212.
- I. Erosion Control.** See the Special Note for Erosion Control.

**V. BASIS OF PAYMENT**

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Remove Headwall.** The Department will make payment for the completed and accepted quantities of Each headwall removed. Payment at the Contract unit price per Each shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing headwall.
- C. Remove Pipe.** The Department will make payment according to Section 701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing pipe.
- D. Culvert and Entrance Pipe.** The Department will make payment according to Section

Pipe Replacements/Extensions  
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701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals necessary for installing and backfilling new culvert and entrance pipe.

**E. Headwalls, Drainage Boxes.** The Department will make payment according to Section 710.

**F. Erosion Control.** See the Special Note for Erosion Control.

## SPECIAL NOTE FOR SIGNAGE

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All sign sheeting shall be from the Cabinet's List of Approved Materials.

The following signs and sign components shall be fabricated using Type IX sheeting:

- White sign legends on panel signs
- STOP (R1-1) signs
- ALL WAY (R1-3P) signs
- YIELD (R1-2) signs
- DO NOT ENTER (R5-1) signs
- WRONG WAY (R5-1a) signs

The following signs and sign components shall be fabricated using Type IX fluorescent yellow sheeting:

- Horizontal Alignment Signs and Plaques, including signs shown in Figure 2C-1 of the MUTCD
- All Advisory Speed (W13-1P) plaques

The following signs shall be fabricated using Type IX fluorescent yellow-green sheeting:

- School and school bus warning signs, including the fluorescent yellow-green signs shown in Figures 7B-1 and 7B-6 of the MUTCD and other school-related warning signs that are not included in the MUTCD.
- Bicycle Warning (W11-1) signs and SHARE THE ROAD (W16-1P) plaques or diagonal downward point arrow (W16-7P) plaques that supplement Bicycle Warning signs.
- In-Street Pedestrian Crossing (R1-6) signs and Overhead pedestrian Crossing (R1-9) signs
- Supplemental plaques to any of the previously listed signs

All other permanent signs shall be fabricated using Type III or Type IV sheeting.

## SPECIAL NOTE FOR SIGNING

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### I. DESCRIPTION

Except as provided herein, this work shall be performed in accordance with the current edition of the Manual on Uniform Traffic Control Devices (MUTCD), the Department's current Standard Specifications and Interim Supplemental Specifications, applicable Standard and Sepia Drawings, and applicable Special Provisions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

- (1) Maintaining and Controlling Traffic; (2) Furnish, Fabricate, and Erect Signs; and (3) All other work specified in the Contract.

### II. MATERIALS

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Erosion Control.** See Special Note for Erosion Control.

### III. CONSTRUCTION METHODS

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Site Preparation.** Be responsible for all site preparation including, but not limited to: clearing and grubbing, staking, excavation, backfill, and removal of obstructions or any other material not covered by other items. Perform all site preparation only as approved, or directed, by the Engineer.
- C. **Staking.** See Special Note for Staking.
- D. **Signs and Posts.** Before beginning installation, the Contractor shall furnish to the Engineer drawings, descriptions, manufacturer's cuts, etc. covering all material to be used. Mill test reports for beams, steel panels, and each different gauge of aluminum or steel sheeting used must be submitted to the Division of Construction and approved prior to erection.

Fabricate sheet signs from .080 or .125 gauge aluminum alloy 5052-H38 or 6061-T6, in accordance with ASTM B-209, and to the size and shape specified. Prepare the side of

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the sheet to be used as the sign face to receive the retroreflective background material according to the recommendations of the sheeting and retroreflective material manufacturer(s). Sheeting used as background material for sign faces is to be the color specified and visually in accordance with the standard requirements of ASTM D-4956, and meet the requirements of Section 830 of the Standard Specifications. Contrary to Section 830.02.06, only the types and colors of sheeting as specified in the proposal will be accepted. All retroreflective material shall be fabricated and assembled in accordance with the specifications and/or recommendations of the manufacturer(s).

All hardware for the erection of sheeting signs shall be rust resistant: stainless steel, zinc coated, aluminum, or an Engineer approved material. All beams and posts shall be of sufficient lengths to extend from the top of the sign to the required embedment in the anchor. Splicing of the sign post shall NOT be allowed. For installations in soil, Type I steel posts shall be mounted on either a standard anchor, with soil stabilizer plate, or on a Type D breakaway sign support. Refer to Sheeting Sign Detail Sheet 1 of 2 for installation details for a standard anchor with soil stabilizer plate. When installing a standard anchor with soil stabilizer plate, if solid rock is encountered, the Contractor shall drill a hole to the required depth into the rock, install the anchor into the hole, and backfill the anchor post with concrete, or other method approved by the Engineer. The cost shall be incidental to Type I steel post, and a soil stabilizer plate will not be required. Refer to Standard Drawing RGX-065, current edition, for installation details of Type D breakaway sign supports. Approved manufacturers for Type D breakaway sign supports have been placed on the list of approved materials. For installations on existing concrete, such as a sidewalk, concrete median, etc., Type I steel posts shall be mounted on a Type D surface mount. For Type D surface mounts there are two permissible alternatives: Kleen Break Model 425 for Surface Mount Concrete Installations by Xcessories Squared of Auburn, IL or Snap n Safe Model S200s for 2" Sign Post by Designovations Inc. of Stilman Valley, IL. Prior to installation, the Contractor shall submit to the Engineer shop drawings of the Type D surface mount(s). Install the Type D surface mount(s) according to all the applicable requirements of the manufacturer (see shop drawings). All steel post shall meet the requirements of Section 832. All hardware including, but not limited to, sign post anchors, soil stabilizer plates, nuts, bolts, washers, fasteners, fittings, and bracing, or any other incidentals necessary to erect the signs shall be furnished by the Contractor and will be incidental to the work.

New concrete bases, posts, support anchors, signs, etc. are to be installed prior to dismantling any existing sign(s). The removal of existing signs, posts, and support anchors is to be performed concurrently with the installation of new signs, posts, and support anchors, under the same lane closure during the same work shift. Completely remove existing sign support anchors or remove them to a minimum depth of six (6) inches below existing ground line and backfill the disturbed area to the existing ground line.

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When listed in the summaries, Reflective Sign Post Panels shall be 2" wide x 60" tall (or 84" tall for urban installations) and shall have three 3/8" holes (one hole in the top 3", one hole near the center, and one hole in the bottom 3") that align with the holes on the Type I steel post. Sheeting for the Reflective Sign Post Panels shall be the same Type and color as the sign installed on the post. Examples include:

- Red, fluorescent yellow, and fluorescent yellow-green (Type IX Sheeting)
- White and yellow (Type III and/or IV Sheeting).

All manufactured sheeting signs shall be free of visual defects including, but not limited to: cracks, tears, ridges, humps, discoloration, etc., and defective signs shall be replaced at no additional cost to the Department.

All sign blanks shall be hole punched by the manufacturer for either horizontal or vertical installation. Attach all aluminum sheeting signs to square post with 3/8" all steel rivets and nylon washers.

Post will be attached to the anchor with 5/16" corner bolts and 5/16" flanged nuts, and all post and anchor cuts shall be treated with a Cold Galvanizing Compound spray.

Sign posts shall be erected vertically by using a bubble level. The tolerance shall be a two (2) degree angle in any direction. For locations where there are more than one sign is mounted beside each other, the posts shall be spaced to provide approximately six inches (6") of spacing between signs.

**E. Property Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the Contractor's activities. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.

**F. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs due to the Contractor's operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor

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for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.

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

**H. Control.** Perform all work under the absolute control of the Department. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces, and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties.

Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and the Engineer's decision shall be final and binding upon the Contractor.

**I. Clean Up, Disposal of Waste.** Clean up the project area as work progresses. Dispose of all removed concrete, debris, and other waste as per Section 204.03.08. The Department will incur no cost to obtain the disposal sites. The Department will NOT make direct payment for disposal of waste and debris from the project. Existing anchors, signs, posts, and any other hardware or material removed from the site are to become the property of the Contractor. See Special Provision for Waste and Borrow Sites.

**J. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

**K. Erosion Control.** See Special Note for Erosion Control.

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#### IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Site Preparation.** Other than the bid items listed, the Department will NOT measure Site Preparation for payment, but shall be incidental to the project bid items.
- C. Signs.** The Department will measure the finished in-place area of signs in Square Feet.
- D. Sign Posts.** The Department will measure the finished in-place length of sign posts in Linear Feet, from the top of the anchor, or top of the sign support, to the top of the sign post. Laps, cutoffs, excess, and waste will NOT be measured for payment.
- E. Type D Breakaway Sign Supports.** The Department will measure Type D sign supports as Each support installed.
- F. Type D Surface Mounts.** The Department will measure Type D Surface Mounts as Each surface mount installed.
- G. Class A Concrete for Signs.** The Department will measure the Class A Concrete used in conjunction with Type D breakaway sign support installations in Cubic Yards. Any concrete that is required as backfill due to hitting rock during a standard installation shall be incidental to the bid item STEEL POST TYPE I, and soil stabilizers will not be required.
- H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental. Seeding and Protection shall be measured according to Section 212.
- I. Erosion Control.** See Special Note for Erosion Control.
- J. Remove Sign.** The Department will consider all signs attached to one or more connected posts as a single sign. The Department will measure as Each sign assembly removed and NOT each individual sign removed.
- K. Items Provided by KYTC.** The Department will NOT measure for payment the installation of signs and/or surface mounts provided by KYTC. These activities shall be incidental to the bid item STEEL POST TYPE I.

#### V. BASIS OF PAYMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.

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Page 6 of 6

- B. Signs.** The Department will make payment for the completed and accepted quantities under the bid item SBM ALUM SHEET SIGNS .125 IN or .080 IN. The Department will consider payment full compensation for all work and incidentals necessary to install the signs, as required by these notes and the details found elsewhere in the proposal, at the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.
- C. Sign Posts.** The Department will make payment for the completed and accepted quantities under the bid item STEEL POST TYPE I. The Department will consider payment full compensation for all work and incidentals necessary to install the sign posts as required by these notes and the details found elsewhere in the proposal.
- D. Type D Breakaway Sign Supports.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D. The Department will consider payment full compensation for all work and incidentals necessary to install the Type D breakaway sign supports as required by Standard Drawing RGX-065, current edition.
- E. Type D Surface Mounts.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D Surface Mount. The Department will consider payment full compensation for all work and incidentals necessary to install the Type D surface mounts according to all applicable manufacturer requirements.  
NOTE: There are two permissible Type D Surface Mount alternatives: Kleen Break Model 425 for Surface Mount Concrete Installations by Xcessories Squared of Auburn, IL or Snap n Safe Model S200s for 2" Sign Post by Designovations Inc. of Stilman, Valley, IL.
- F. Class A Concrete for Signs.** The Department will make payment for the completed and accepted quantities, used in conjunction with Type D breakaway sign support installations, under the bid item CLASS A CONCRETE FOR SIGNS. The Department will consider payment full compensation for all work and incidentals necessary to install the concrete as required by Standard Drawing RGX-065, current edition.
- G. Remove Sign.** The Department will make payment for the completed and accepted quantities under the bid item REMOVE SIGN. The Department will consider payment full compensation for all work and incidentals necessary to remove the existing signs, posts, anchors, and any other sign material or hardware, from the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.
- H. Erosion Control.** See Special Note for Erosion Control.

## SPECIAL NOTES FOR COMPLETION DATES & LIQUIDATED DAMAGES

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The ultimate fixed completion date for this project will be **June 30, 2020**. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

The Contractor shall notify the Engineer two (2) weeks prior to beginning construction activities at each intersection. Upon beginning construction activities at an intersection, the Contractor shall have a set number of calendar days (see below) to complete work at that intersection. The Department will assess Liquidated Damages for failure to complete construction on time.

Intersection	Completion Duration (Calendar Days)
Campbell – KY 9 (AA Hwy) at KY 1998 (Pooles Creek Rd)	60
Kenton – KY 1303 (Turkeyfoot Rd) at CS 4128 (Dudley Rd)	15
Campbell – US 27 (Alexandria Pike) at KY 1998 (Pooles Creek)	15
Kenton – KY 1303 (Turkeyfoot Rd) at KY 236 (Stevenson Rd)	15
Boone – KY 1829 (Industrial Rd) at CS 1264 (Safeway Drive)	15

In addition to the requirements of Section 108.09, the Department will assess Liquidated Damages in the amount of **\$1,000** per hour for each hour, or fraction of an hour, for any and all lane closures that are in place beyond the time frame(s) noted in the Traffic Control Plan and approved by the Engineer.

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 OTHER CONTRACTS**

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

1-3193 Coordination Contracts  
01/02/2012

### **SPECIAL NOTE FOR DOUBLE ASPHALT SEAL COAT**

Use RS-2 or RS-2C asphalt material that is compatible with the seal aggregate. Apply the first course of asphalt seal coat at the rate of 3.2 lbs/sy of asphalt and 30 lbs/sy of size #78 seal coat aggregate. Apply the second course at 2.8 lbs/sy of asphalt and 20 lbs/sy of size #9M seal coat aggregate. The Engineer may adjust the rate of application as conditions warrant. Use caution in applying liquid asphalt material to avoid over spray getting on curbs, gutter, barrier walls, bridges, guardrail, and other roadway appurtenances.

The Department will not measure any surface preparation required prior to applying the asphalt seal coat, but shall be incidental to “Asphalt Material for Asphalt Seal Coat”.

1-3215 Double Asphalt Seal Coat  
01/02/2012

## SPECIAL NOTES FOR GUARDRAIL

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### I. DESCRIPTION

Except as specified herein, perform all work in accordance with the Department's Standard and Supplemental Specifications, Special Notes and Special Provisions, and the Standard and Sepia Drawings, current editions. Article references are to the Standard Specifications.

Furnish all equipment, labor, materials, and incidentals for the following work items:

(1) Site preparation; (2) Remove existing guardrail systems; (3) Construct Guardrail, End Treatments, Bridge End Connectors, and Terminal Sections, as applicable; (4) Delineators for guardrail; (5) Maintain and Control Traffic; and (6) all other work specified as part of this contract.

### II. MATERIALS

Except as specified herein, provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual and make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing.

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Guardrail.** Furnish guardrail system components according to Section 814 and the Standard and Sepia Drawings; except use steel posts only, no alternates.

**C. Delineators for Guardrail.** Furnish white and/or yellow Delineators for Guardrail according to Standard Drawing RBR-055 – Delineators for Guardrail, current edition.

**D. Erosion Control.** See the Special Note for Erosion Control.

### III. CONSTRUCTION METHODS

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Site Preparation.** Remove existing guardrail system, including the guardrail end treatments, Bridge End connectors and all other elements of the existing guardrail system as per Section 719, except that the Contractor will take possession of all concrete posts and all concrete associated with the existing bridge and/or guardrail end treatments. Locate all disposal areas off the Right of Way. Be responsible for all site preparation, including but not limited to, clearing and grubbing, excavation, embankment, and removal of all obstructions or any other items; regrading, reshaping, adding and compacting of suitable materials on the existing shoulders to provide proper template or foundation for the guardrail;

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filling voids left as the result of removing existing guardrail and guard posts with dry sand; temporary pollution and erosion control; disposal of excess, waste materials, and debris; and final dressing, cleanup, and seeding and protection. Perform all site preparation as approved or directed by the engineer.

- C. Guardrail.** Except as specified herein, construct guardrail system according to Section 719 and the Standard and Sepia Drawings, current editions. Locations listed on the summary and/or shown on the drawings are approximate only. The Engineer will determine the exact termini for individual guardrail installations at the time of construction. Unless directed otherwise by the Engineer, provide a minimum two (2) foot shoulder width. Construct radii at entrances and road intersections as directed by the Engineer.

Erect guardrail to the lines and grades shown on the current Standard and Sepia Drawings, or as directed by the Engineer by any method approved by the Engineer which allows construction of the guardrail to the true grade without apparent sags.

When removing existing guardrail and installing new guardrail, do not leave the blunt end exposed where it would be hazardous to the public. When it is not practical to complete the construction of the guardrail and the permanent end treatments and terminal sections first, provide a temporary end by connecting at least 25 feet of rail to the last post, and by slightly flaring, and burying the end of the rail completely into the existing shoulder. If left overnight, place a drum with bridge panel in advance of the guardrail end and maintain during use.

- D. Delineators for Guardrail.** Construct Delineators for Guardrail according to Standard Drawing RBR-055 – Delineators for Guardrail, current edition.
- E. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Restore damaged roadway features and private property at no additional cost to the Department.
- F. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require utilities to be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs as a result of guardrail operations at no additional cost to the Department.
- G. Right of Way Limits.** The Department has not established the exact limits of the Right-of-Way. Limit work activities to obvious Right-of-Way, permanent or temporary easements, and work areas secured by the Department through consent and release of the adjacent property owners. Be responsible for all encroachments onto private lands.

Guardrail  
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- H. Clean Up, Disposal of Waste.** Dispose of all removed concrete, debris, and other waste and debris off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- I. Final Dressing, Seeding and Protection.** Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- J. Erosion Control.** See the Special Note for Erosion Control.

**IV. METHOD OF MEASUREMENT**

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Site preparation.** Other than the bid items listed, the Department will not measure Site Preparation for separate payment but shall be incidental to the Guardrail, End Treatments, Bridge End Connectors, and Terminal Sections, as applicable.
- C. Guardrail, End Treatments, Bridge End Connectors, Terminal Sections, and Remove Guardrail.** The Department will measure according to Section 719.04.
- D. Delineators for Guardrail.** See Standard Drawing RBR-055 – Delineators for Guardrail.
- E. Clean Up, Disposal of Waste, Final Dressing, and Seeding and Protection.** The Department will NOT measure for payment the operations of: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental. Seeding and Protection will be measured according to Section 212.
- F. Erosion Control.** See the Special Note for Erosion Control.

**V. BASIS OF PAYMENT**

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Guardrail, End Treatments, Bridge End Connectors, Terminal Sections, and Remove Guardrail.** The Department will make payment according to Section 719.05.
- C. Delineators for Guardrail.** See Standard Drawing RBR-055 – Delineators for Guardrail.
- D. Erosion Control.** See the Special Note for Erosion Control.

### **SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS**

Consider the dimensions shown on the typical sections for pavement and shoulder widths and thickness' to be nominal or typical dimensions. The Engineer may direct or approve varying the actual dimensions to be constructed to fit existing conditions. Do not widen existing pavement or shoulders unless specified elsewhere in this proposal or directed by the engineer.

1-3725 Typical Section Dimensions  
01/02/2012

**TRAFFIC CONTROL PLAN  
BOONE, CAMPBELL, AND KENTON COUNTIES  
VARIOUS INTERSECTIONS  
ITEM NO. 6-9017.10, .20, .30, .40, & .50**

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**TRAFFIC CONTROL GENERAL**

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” as set forth in the Standard and Supplemental Specifications and the Standard and Sepia Drawings, current editions, unless otherwise provided in these notes. The lump sum bid price to “Maintain and Control Traffic” shall also include, but is not limited to, the following items and operations:

- A. All labor and materials necessary for construction and maintenance of traffic control devices and markings.
- B. All flag persons and traffic control devices such as, but not limited to, flashers, signs, barricades and vertical panels, plastic drums (steel drums will not be permitted), and cones, necessary for the control and protection of vehicular and pedestrian traffic as specified in these notes, the proposal, the Manual on Uniform Traffic Control Devices (MUTCD) current edition, or the Engineer.

Contrary to Section 106.01, furnish new, or used in like new condition, traffic control devices at the beginning of the work and maintain 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 when no longer needed. Traffic control devices will conform to current MUTCD.

Maintain access to all entrances, side streets and roads, schools, churches and commercial properties at all times during construction. Access to fire hydrants must also be maintained at all times. The Contractor will be responsible to notify adjacent property owners when work affecting the entrances will be performed.

**PROJECT PHASING & CONSTRUCTION PROCEDURES**

For all construction activities, utilize a lane closure, and maintain at least one lane of travel in each direction. Provide a minimum clear lane width of 10 feet, however, provide for 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.

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

Normal Weekday Rush-Hours

Monday-Friday 6:00 am – 9:00 am and 3:00 pm – 7:00 pm, daily

Holiday & Special Events

Easter Weekend	Friday, April 10, 2020 – Sunday, April 21, 2020
Memorial Day Weekend	Friday, May 22, 2020 – Monday, May 25, 2020
Labor Day Weekend	Friday, August 30, 2019 – Monday, September 2, 2019
Thanksgiving Weekend	Thursday, November 28, 2019 – Sunday, December 1, 2019
Christmas	Tuesday, December 24, 2019 – Wednesday, December 25, 2019
New Year’s	Tuesday, December 31, 2019 – Wednesday, January 1, 2020

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

The Department will provide public notification regarding approve lane closures. The Engineer must be notified 2 weeks prior to any lane closure. Notify the Engineer immediately and obtain approval of any deviations from the previously approved closure schedule. The contractor shall be responsible for signs; work zone and pavement condition signs; advanced warning signs; changeable message signs; and/or additional signs as directed by the Engineer.

Liquidated Damages will be assessed for any and all lane closures that exceed the approval time limits in accordance with the Special Note for Completion Dates & Liquidated Damages.

The Contractor shall completely cover any signs, existing, permanent, or temporary, which do not properly apply to the current traffic phasing, and shall maintain the covering until signs are applicable or are removed.

In general, all traffic control devices shall be placed starting and proceeding in the direction of the flow of traffic, and removed starting and proceeding in the direction opposite the flow of traffic.

#### **LANE AND SHOULDER CLOSURES**

Do not leave lane closures in place during prohibited periods. No long term lane closures will be allowed; therefore, lane closures will not be measured for payment.

#### **SIGNS**

The Engineer and the Contractor, or their authorized representative, shall review the signing before traffic is allowed to use any lane closures, crossovers, or detours. All signing shall be approved by the Engineer before work can be started by the Contractor.

Contrary to section 112.04.02, only long term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but shall be incidental to Maintain and Control Traffic. Individual signs will be measured only once for payment, regardless of how many times they are set, reset, relocated, and removed during the duration of the project. Replacements for damaged signs directed by the Engineer to be replaced due to poor condition or reflectivity will not be measured for payment.

### **PORTABLE CHANGEABLE MESSAGE SIGNS**

Provide portable changeable message sign (PCMS) at least two weeks prior to construction at the locations approved by the Engineer. The messages required to be provided will be designated by the Engineer. The PCMS will be in operation at all times. In the event of damage or mechanical/electrical failure, the contractor will repair or replace the PCMS immediately. The Department will not take possession of the signs upon completion of the work. The Department will measure for payment the maximum number of PCMS in concurrent use at the same time on a single day on all sections of the contract. PCMS will be paid for once, no matter how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged changeable message signs directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment.

### **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 for construction and 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 construction.

### **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 final surface course. Removal of pavement markings will be by water blasting process to the satisfaction of the Engineer. Place temporary and permanent striping in accordance with Section 112 with following exception for Temporary Striping:

If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course or existing surface to remain in place, 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 is expected to cross in a lane change situation with an elevation difference greater than 1 ½". Place Warning signs (MUTC 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 unsurfaced areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course.

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

Less than 2" – Not protection required. Warning signs should be placed in advance and throughout the drop-off area.

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. Spacing of devices on tapered sections shall be in accordance with MUTCD, current edition. When work is not active in the drop-off area, wedge the drop-off with DGA or asphalt mixture for leveling and wedging with 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours.

Greater than 4" – Positive separation or wedge with a 3:1 or flatter slope. If there is five feet or more distance between the edge of pavement and drop-off, then drums, panels, or barricades may be used. If the drop-off is greater than 12 inches, positive separation is strongly encouraged. If concrete barriers are used, special reflective devices or steady burn lights should be used for overnight installations. Barricades may be used if the drop-off is greater than 12 inches.

## **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)

### **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

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- No more than two message panels should be used (three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- Do not use the sign for two unrelated messages
- Should not scroll text horizontally or vertically
- Should not contain both the words left and right
- Use standardized abbreviations and messages
- Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- Avoid use of speed limits
- Use words (not numbers) for dates

### **Placement**

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

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

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**Standard Abbreviations**

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

<b><u>Word</u></b>	<b><u>Abbrev</u></b>	<b><u>Example</u></b>
Access	ACCS	ACCIDENT AHEAD/ USE ACCS RD NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/ USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/ DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/ MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/ USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/ USE ALT RTE
Cardinal Directions	N, S, E, W	N I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/ MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/ USE I275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3 MI
Construction	CONST	CONST WORK AHEAD/ EXPECT DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND I64 CLOSED/ DETOUR EXIT 20
Emergency	EMER	EMER VEH AHEAD/ PREPARE TO STOP
Entrance, Enter	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/ DETOUR EXIT 10
Freeway	FRWY, FWY	GN SYNDR FWY CLOSED/ DETOUR EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ ALL TRAF EXIT 25
Highway	HWY	ACCIDENT ON AA HWY/ EXPECT DELAYS
Hour	HR	ACCIDENT ON AA HWY/ 2 HR DELAY
Information	INFO	TRAF INFO TUNE TO 1240 AM
Interstate	I	E-BND I64 CLOSED/ DETOUR EXIT 20
Lane	LN	LN CLOSED MERGE LEFT
Left	LFT	LANE CLOSED MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/ SLOW
Major	MAJ	MAJ DELAYS I75/ USE ALT RTE
Mile	MI	ACCIDENT 3 MI AHEAD/ USE ALT RTE
Minor	MNR	ACCIDENT 3 MI MNR DELAY
Minutes	MIN	ACCIDENT 3 MI/ 30 MIN DELAY
Northbound	N-BND	N-BND I75 CLOSED/ DETOUR EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/ USE I275 NEXT RIGHT
Parking	PKING	EVENT PKING NEXT RGT
Parkway	PKWY	CUM PKWAY TRAF/ DETOUR EXIT 60
Prepare	PREP	ACCIDENT 3 MI/ PREP TO STOP
Right	RGT	EVENT PKING NEXT RGT
Road	RD	HAZMAT IN RD/ ALL TRAF EXIT 25
Roadwork	RDWK	RDWK NEXT 4 MI/ POSSIBLE DELAYS
Route	RTE	MAJ DELAYS I75/ USE ALT RTE
Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
Slippery	SLIP	SLIP COND POSSIBLE/ SLOW SPD
Southbound	S-BND	S-BND I75 CLOSED/ DETOUR EXIT 50
Speed	SPD	SLIP COND POSSIBLE/ SLOW SPD

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**Standard Abbreviations** (cont)

<b><u>Word</u></b>	<b><u>Abbrev</u></b>	<b><u>Example</u></b>
Street	ST	MAIN ST CLOSED/ USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/ DETOUR EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/ USE I275 NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/ DETOUR EXIT 50
Work	WRK	CONST WRK 2MI/ POSSIBLE DELAYS

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

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

**Typical Messages**

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

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

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**Typical Messages** (cont)

**Reason/Problem**

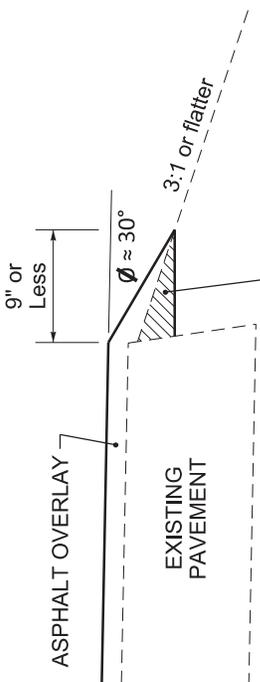
FREEWAY CLOSED  
FRESH OIL  
HAZMAT SPILL  
ICE  
INCIDENT AHEAD  
LANES (NARROW, SHIFT, MERGE, ETC.)  
LEFT LANE CLOSED  
LEFT LANE NARROWS  
LEFT 2 LANES CLOSED  
LEFT SHOULDER CLOSED  
LOOSE GRAVEL  
MEDIAN WORK XX MILES  
MOVING WORK ZONE, WORKERS IN ROADWAY  
NEXT EXIT CLOSED  
NO OVERSIZED LOADS  
NO PASSING  
NO SHOULDER  
ONE LANE BRIDGE  
PEOPLE CROSSING  
RAMP CLOSED  
RAMP (SLIPPERY, ICE, ETC.)  
RIGHT LANE CLOSED  
RIGHT LANE NARROWS  
RIGHT SHOULDER CLOSED  
ROAD CLOSED  
ROAD CLOSED XX MILES  
ROAD (SLIPPERY, ICE, ETC.)  
ROAD WORK  
ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)  
ROAD WORK XX MILES  
SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)  
NEW SIGNAL XX MILES  
SLOW 1 (OR 2) - WAY TRAFFIC  
SOFT SHOULDER  
STALLED VEHICLES AHEAD  
TRAFFIC BACKUP  
TRAFFIC SLOWS  
TRUCK CROSSING  
TRUCKS ENTERING  
TOW TRUCK AHEAD  
UNEVEN LANES  
WATER ON ROAD  
WET PAINT  
WORK ZONE XX MILES  
WORKERS AHEAD

**Action**

PREPARE TO STOP  
REDUCE SPEED  
SLOW  
SLOW DOWN  
STAY IN LANE  
STOP AHEAD  
STOP XX MILES  
TUNE RADIO 1610 AM  
USE NN ROAD  
USE CENTER LANE  
USE DETOUR ROUTE  
USE LEFT TURN LANE  
USE NEXT EXIT  
USE RIGHT LANE  
WATCH FOR FLAGGER

DURABLE PAVEMENT EDGE DETAIL

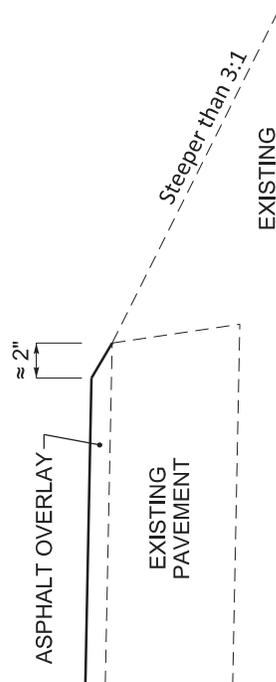
(Resurfacing adjacent to fill slope or ditch foreslope that is 3:1 or less)



PREPARE SHOULDER ACCORDING TO STANDARD SPECIFICATIONS

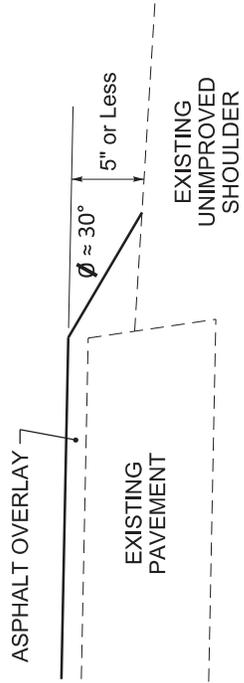
DURABLE PAVEMENT EDGE DETAIL

(Resurfacing adjacent to fill slope or ditch foreslope that is steeper than 3:1)



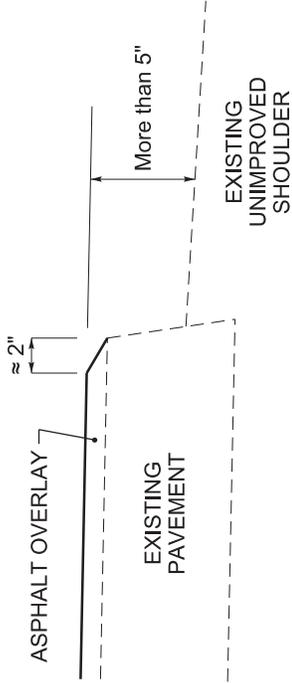
DURABLE PAVEMENT EDGE DETAIL

(Resurfacing adjacent to low shoulder with dropoff of 5 inches or less)



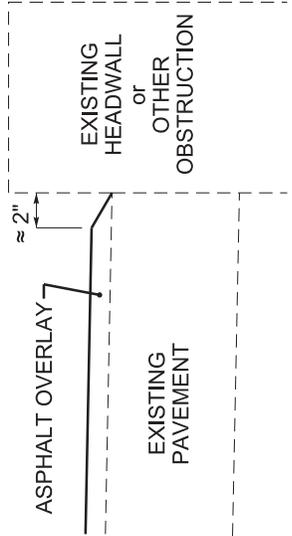
DURABLE PAVEMENT EDGE DETAIL

(Resurfacing adjacent to low shoulder with dropoff of more than 5 inches)



DURABLE PAVEMENT EDGE DETAIL

(Resurfacing adjacent to an obstruction, such as an existing headwall)



NOTES

1. DETAILS DO NOT APPLY TO OVERLAYS LESS THAN 1 INCH THICK.
2. THE DURABLE PAVEMENT EDGE DEVICE MAY BE DISENGAGED AT DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT, AS APPROVED BY THE ENGINEER.

DRAWING NOT TO SCALE

DURABLE PAVEMENT EDGE DETAILS

## SPECIAL NOTE FOR TRAFFIC SIGNAL LOOP DETECTORS

**1.0 DESCRIPTION.** Be advised that there are existing traffic signal loop detectors within the construction limits of this project. Except as specified herein, perform traffic signal loop replacement in accordance with the Department's Standard/Supplemental Specifications, Special Provisions, Special Notes, and Standard/Sepia Drawings, current editions and as directed by the Engineer. Article references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for replacement of traffic signal loop installation(s) and all other work specified as part of this contract.

**1.1 Pre-bid Requirements.** Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize himself with existing conditions so that the work can be expeditiously performed after a Contract is awarded. Information provided in the Plans regarding types and quantities of work is not to be taken as an accurate or complete evaluation of the materials and conditions to be encountered during construction. The bidder must make his own determinations as to the conditions encountered.

**2.0 MATERIALS.** Except as specified herein, furnish materials in accordance with Subsection 732.02 and Section 835. Provide for materials to be sampled and tested in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing, unless otherwise specified in this Special Note.

**2.1 Maintain and Control Traffic.** See Traffic Control Plan.

**2.2 Sand.** Furnish natural sand meeting the requirements of Subsection 804.04.01.

**2.3 Seeding.** Furnish Seed Mix Type I.

**2.4 Loop Saw Slot and Fill.** Furnish loop sealant, backer rod, and non-shrink grout according to the Saw Slot Detail.

**2.5 Junction Boxes.** Furnish junction box type B, #57 aggregate, and geotextile filter type IV according to junction box detail.

**2.6 Cable No. 14/1 Pair (Lead-in).** Furnish cable that is specified in Section 835. Cable shall be ran splice free. This shall include splice kits to connect to the loop wire.

**2.7 Conduit.** Furnish and install appropriate conduit from transitions to the roadway, junction boxes and poles. See details below.

**3.0 CONSTRUCTION.** Except as specified herein, install and test Traffic Signal Loop Detectors in accordance with Section 723 and the drawings.

**3.1 Testing.** The Contractor shall test all loops and cable no. 14/1 pair (lead-in) according to Subsection 723.03.17 before and after milling the roadway. The Contractor may have to separate the loop from the lead-in to perform this test. If the loop/lead-in meets the requirement in Section 723 at the controller cabinet, the loop/lead-in shall not be replaced. If existing loops do not meet the requirements in Subsection 723.03.17, the loops shall be replaced. Replacement loops may be installed either before or after the milling process.

## Traffic Signal Loop Detectors

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The Contractor shall verify that loops (both existing and replacement loops) meet the requirements per Subsection 723.03.17 before the final surface is laid. If loops do not meet conditions of Subsection 723.03.17, the Contractor shall replace them before the resurfacing activities begin. If replacement loops have to be reinstalled, the costs of reinstallation shall be incidental to the milling bid item. The Contractor shall re-splice loops to the lead-in with the proper splice as noted in the spec book.

**3.2 Coordination.** Notify the Engineer in writing, two (2) weeks prior to beginning any work. The Engineer will contact the District Traffic Engineer to coordinate the Department's operations with the Contractor's work.

**3.3 Connection.** The Contractor shall schedule all signal loop installation to ensure the new loops are connected to the lead-in and operational within 5 calendar days of the old loops being damaged and/or disconnected. This requirement includes damage caused by any work activity associated with the project. If the new signal loops are not functioning as intended following 5 calendar days, the Department may assess Liquidated Damages at a rate of \$500 per calendar day per signal location until the loops are operating at pre-construction conditions. All liquidated damages will be applied cumulatively.

**3.4 Maintain and Control Traffic.** See Traffic Control Plan.

**3.5 Milling.** On projects involving milling and texturing of the existing pavement, install loops in the existing pavement before or after performing the milling and texturing. After milling, the remnant contents of the existing saw slot (grout, loop wires, backer rod, and/or loop sealant) may not be flush with the top of the milled portion of the surface. In such cases, clear the saw slot of loose remnant contents and refill the saw slot with natural sand. Obtain the Engineer's approval of the stabilized saw slot prior to resurfacing. The Department will not measure for separate payment clearing and stabilizing the saw slot and shall consider this work incidental to milling.

**3.6 Loop Saw Slot and Fill.** The following is a typical step by step procedure for the installation of a loop.

- 1) Carefully mark the slot to be cut, perpendicular to the flow of traffic and centered in the lane.
- 2) Make each saw-cut 3/8-inch wide and at a depth such that the top of the backer rod is a minimum of 4 inches below the surface of asphalt pavement.
- 3) Drill a 1½ inch core hole at each corner and use a chisel to smooth corners to prevent sharp bends in the wire.
- 4) Clean all foreign and loose matter out of the slots and drilled cores and within 1 foot on all sides of the slots using a high pressure washer.
- 5) Completely dry the slots and drilled cores and within 1 foot on all sides of the slots.
- 6) Measure 9-12 inches from the edge of the paved surface (shoulder break or face of curb) and drill a 1½ inch hole on a 45° angle to the conduit adjacent to the roadway.
- 7) Closely inspect all cuts, cores, and slots for jagged edges or protrusions prior to the placement of the wire. All jagged edges and protrusions shall be ground or re-cut and cleaned again.

## Traffic Signal Loop Detectors

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- 8) Place the loop wire splice-free from the termination point (cabinet or junction box) to the loop, continue around the loop for two turns (6'x30' loop) or three turns (6'x6' loop), and return to the termination point.
- 9) Push the wire into the saw slot with a blunt object such as a wooden stick. Make sure that the loop wire is pushed fully to the bottom of the saw slot. Screwdrivers shall not be used.
- 10) Install duct sealant to a minimum of 1 inch deep into the cored 1½ inch hole.
- 11) Apply loop sealant from the bottom up and fully encapsulate the loop wires in the saw slot. The wire should not be able to move when the sealant has set.
- 12) Cover the encapsulated loop wire with a continuous layer of backer rod along the entire loop and home run saw slots such that no voids are present between the loop sealant and backer rod.
- 13) Finish filling the saw cut with non-shrinkable grout per manufacturer's instructions. Alleviate all air pockets and refill low spaces. There shall be no concave portion to the grout in the saw slot. Any excess grout shall be cleaned from the roadway to alleviate tracking.
- 14) Clean up the site and dispose of all waste off the project.
- 15) Ensure that the grout has completely cured prior to subjecting the loop to traffic. Curing time varies with temperature and humidity.

**3.7 Final Dressing, Clean Up, and Seeding.** After all work is completed, clean work sites and all disturbed areas. Dispose of all waste and debris off the right of way at sites obtained by the Contractor at no additional cost to the Department. Sow all disturbed earthen areas with Seed Mix Type I.

**3.8 Removal.** The Contractor shall remove all existing junction boxes, wire from spans/poles/junction boxes/conduits, and conduits. The removal will be incidental to the project.

**3.9 Property/Roadway Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the work. Upon completion of the work, restore all disturbed highway features and private property in like kind design and materials at no additional cost to the Department.

**3.10 Right-of-Way Limits.** The Department has not established exact limits of Right-of-Way. Limit work activities to obvious Right-of-Way and work areas secured by the Department through Consent and Release of the adjacent property owners. Contractor is responsible for all encroachments onto private lands.

**3.11 Utility Clearance.** Work around and do not disturb existing utilities. The Department does not anticipate any utility impacts for loop installation. If utilities are impacted, work with associated utility companies to resolve issues.

**3.12 Control.** Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to permit other contractors, state forces, public utility companies, and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with each other's work will be reduced to a minimum. The Contractor agrees to make no claims against the Department for additional compensation due to delays or other conditions created by

Traffic Signal Loop Detectors  
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the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to ensure the completion of the work in general harmony and in a satisfactory manner, and the Engineer's decision shall be final and binding upon the Contractor.

**3.13 Bore and Jack.** Except for situations outlined in 3.15, bore and jack will be used if conduit is under pavement of any kind. The conduit shall be 2" rigid steel conduit under all pavement areas except for the area where the loop transitions from the saw slot. The installation of conduit should follow the below detail.

**3.14 Open Cut Roadway.** With permission of the Engineer, roadway may be open cut if the conduit is under pavement. The conduit shall be 2" rigid steel conduit under all pavement areas except for the area that the loop transition from the saw slot. The installation of conduit should follow requirements per Section 723.

**4.0 MEASUREMENT.** See Subsection 723.04 for bid item notes. Additional bid items include the following:

**4.1 Loop Test.** The Department will measure the quantity as each individual unit loop tested. The Department will not measure disconnection, reconnection, traffic control, re-splicing per specifications, before and after testing per note above, and any associated hardware for payment and will consider them incidental to this item of work.

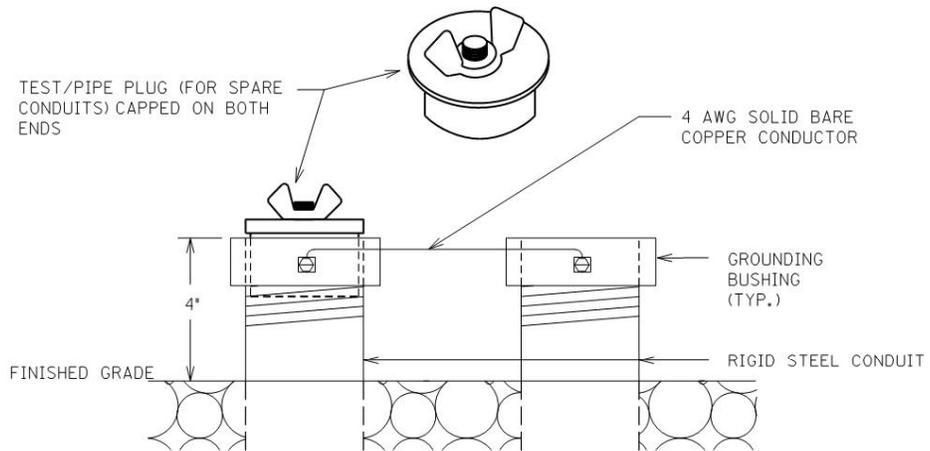
**5.0 PAYMENT.** The Department will make payment for the completed and accepted quantities of listed items according to Subsection 723.05 in addition to the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
Conduit 1"	4792	Linear Foot
PVC Conduit – 1 ¼ inch – sch 80	24900EC	Linear Foot
PVC Conduit – 2 inch – sch 80	24901EC	Linear Foot
Conduit 2"	4795	Linear Foot
Electrical Junction Box type B	4811	Each
Loop Test	24963ED	Each
Trenching and Backfilling	4820	Linear Foot
Loop Wire	4830	Linear Foot
Cable-No. 14/1 Pair	4850	Linear Foot <sup>1</sup>
Loop Saw Slot and Fill	4895	Linear Foot <sup>1</sup>
Bore and Jack Conduit	21543EN	Linear Foot <sup>3</sup>
Open Cut Roadway	4821	Linear Foot <sup>3</sup>

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

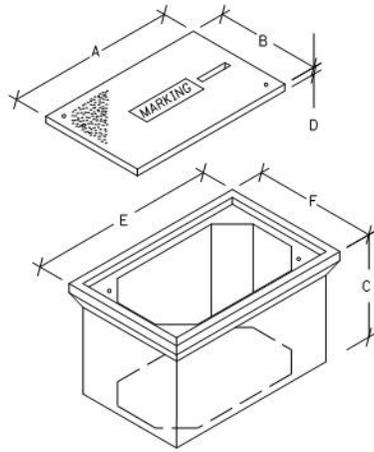
# Traffic Signal Loop Detectors

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

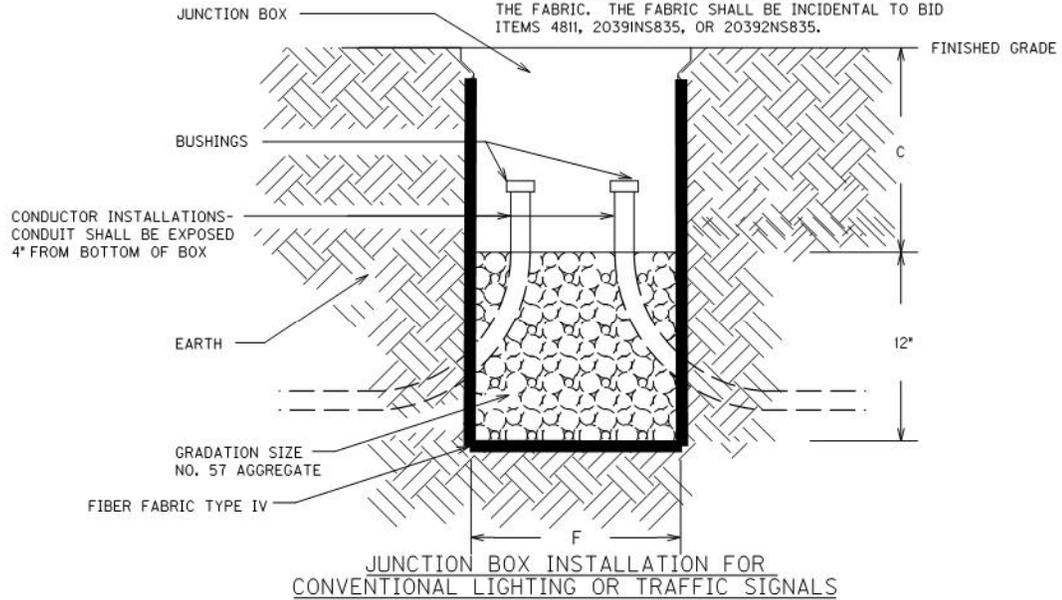
Traffic Signal Loop Detectors  
Page 6 of 8



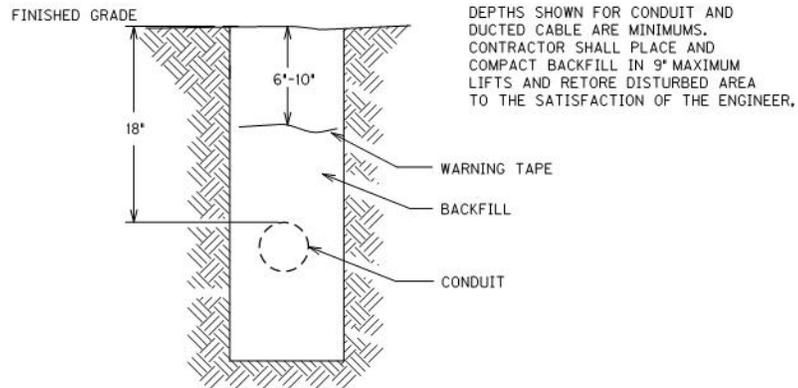
JUNCTION BOX DIMENSIONS (NOMINAL)						
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1 3/4"	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

• MINIMUM  
NOTE: STACKABLE BOXES ARE PERMITTED

BEFORE THE INSTALLATION OF THE #57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL GEOTEXTILE FILTER FABRIC TYPE IV IN THE HOLE. THE FABRIC SHALL EXTEND TO JUST BELOW THE LIP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY LOCATIONS WHERE CONDUITS ENTER THE BOX, THE FABRIC SHALL BE 'X CUT' ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH THE FABRIC. THE FABRIC SHALL BE INCIDENTAL TO BID ITEMS 481I, 2039INS835, OR 20392NS835.

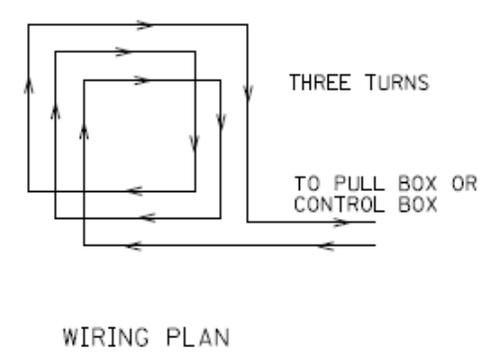
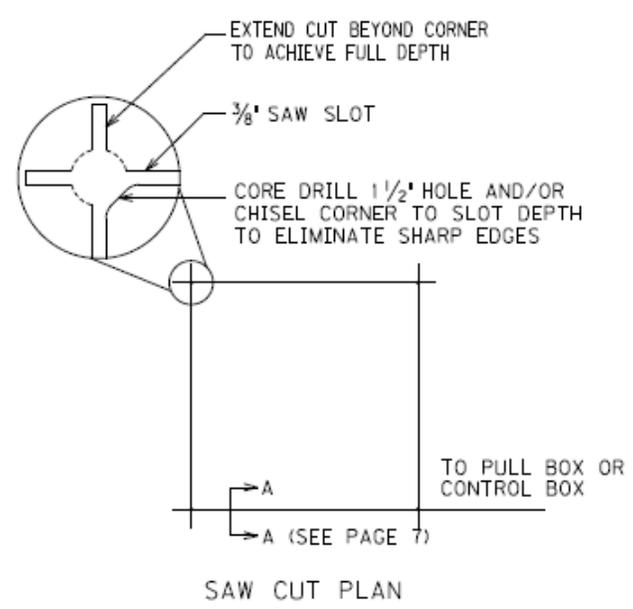


JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING OR TRAFFIC SIGNALS

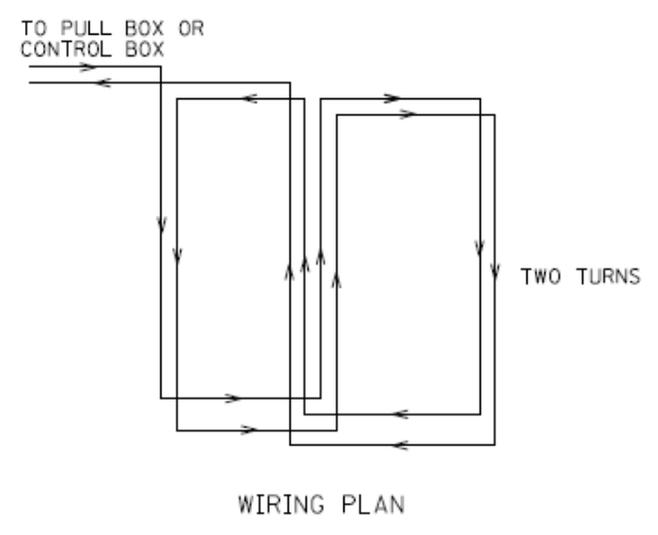
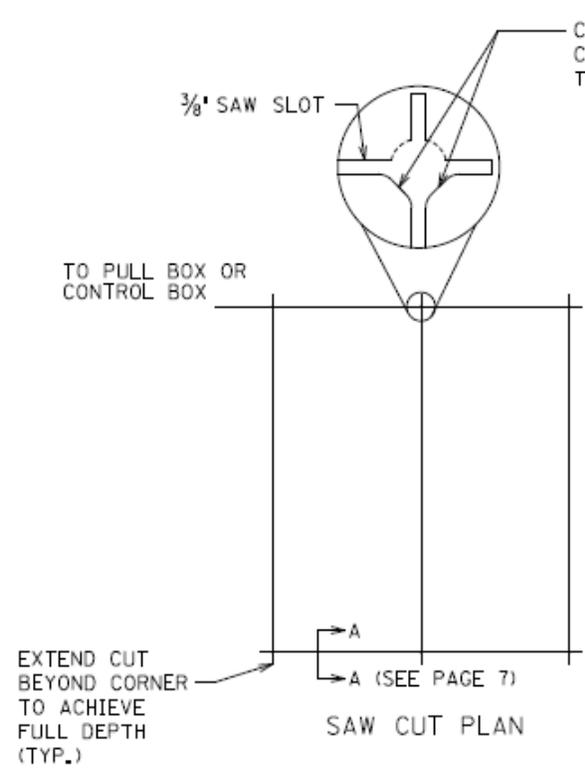


CONDUIT AND WARNING TAPE TRENCH

### Traffic Signal Loop Detectors Page 7 of 8



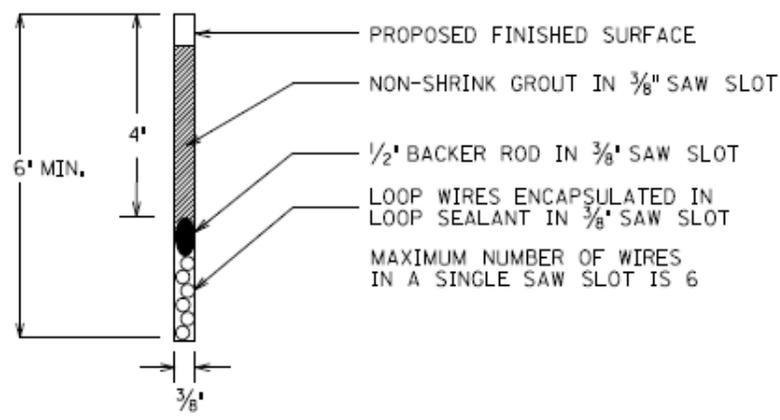
6'X6' LOOP



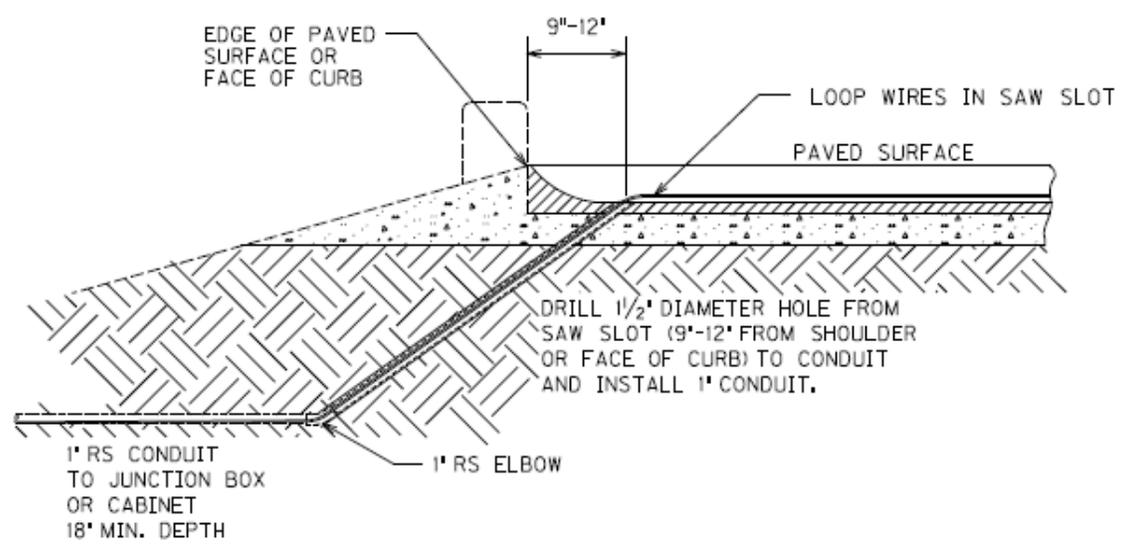
6'X30' QUADRAPOLE LOOP

# Traffic Signal Loop Detectors

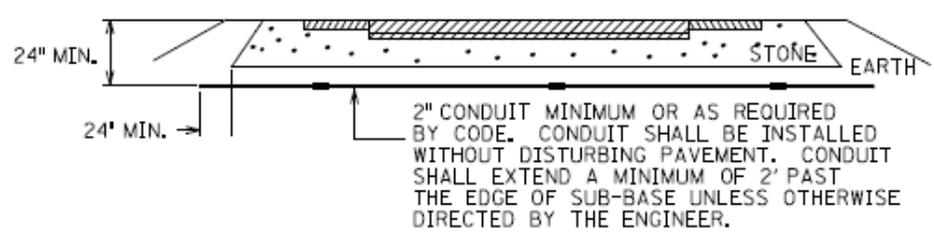
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SECTION A-A (SAW SLOT DETAIL)



SAW SLOT EDGE OF PAVEMENT TRANSITION



CONDUIT UNDER EXISTING PAVEMENT DETAIL

	KENTUCKY TRANSPORTATION CABINET Department of Highways DIVISION OF RIGHT OF WAY & UTILITIES  <b>RIGHT OF WAY CERTIFICATION</b>	TC 62-226 Rev. 01/2016 Page 1 of 1
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<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	<b>RIGHT OF WAY CERTIFICATION</b>	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
6-9017.10	Campbell	FD52 019 0009 016-017	HSIP 5462(030)

**PROJECT DESCRIPTION**  
 Construct Right Turn Lanes along KY 9, update signing and striping, and update the traffic signal heads at the intersection of KY 9 & Gloria Terrell Road.

**No Additional Right of Way Required**  
 Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.

**Condition # 1 (Additional Right of Way Required and Cleared)**  
 All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.

**Condition # 2 (Additional Right of Way Required with Exception)**  
 The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract

**Condition # 3 (Additional Right of Way Required with Exception)**  
 The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.

Total Number of Parcels on Project	0	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
<b>Number of Parcels That Have Been Acquired</b>			
Signed Deed			
Condemnation			
Signed ROE			

**Notes/ Comments (Use Additional Sheet if necessary)**

LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Brian Cox
Signature		Signature	 2019.05.15 12:38:36
Date		Date	-04'00'

Right of Way Director		FHWA	
Printed Name	Digitally signed by DM Loy Date: 2019.05.15 16:09:41 -04'00'	Printed Name	<b>No Signature Required as per FHWA-KYTC Current Stewardship Agreement</b>
Signature		Signature	
Date		Date	

	KENTUCKY TRANSPORTATION CABINET Department of Highways <b>DIVISION OF RIGHT OF WAY &amp; UTILITIES</b>  <b>RIGHT OF WAY CERTIFICATION</b>	TC 62-226 Rev. 01/2016 Page 1 of 1
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<input checked="" type="checkbox"/>	<b>Original</b>	<input type="checkbox"/>	<b>Re-Certification</b>	<b>RIGHT OF WAY CERTIFICATION</b>			
<b>ITEM #</b>		<b>COUNTY</b>		<b>PROJECT # (STATE)</b>		<b>PROJECT # (FEDERAL)</b>	
6-9017.20		Kenton		FD52 059 1303 004-005		HSIP 8122 (029)	
<b>PROJECT DESCRIPTION</b>							
Update the traffic signal heads and update the signing and striping at the intersection of KY 1303 & Dudley Road							
<input checked="" type="checkbox"/>	<b>No Additional Right of Way Required</b>						
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.							
<input type="checkbox"/>	<b>Condition # 1 (Additional Right of Way Required and Cleared)</b>						
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.							
<input type="checkbox"/>	<b>Condition # 2 (Additional Right of Way Required with Exception)</b>						
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract							
<input type="checkbox"/>	<b>Condition # 3 (Additional Right of Way Required with Exception)</b>						
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.							
Total Number of Parcels on Project		0	<b>EXCEPTION (S) Parcel #</b>		<b>ANTICIPATED DATE OF POSSESSION WITH EXPLANATION</b>		
<b>Number of Parcels That Have Been Acquired</b>							
Signed Deed							
Condemnation							
Signed ROE							
<b>Notes/ Comments (Use Additional Sheet if necessary)</b>							
<b>LPA RW Project Manager</b>				<b>Right of Way Supervisor</b>			
Printed Name				Printed Name		Brian Cox	
Signature				Signature		 2019.05.15 12:39:46	
Date				Date		-04'00'	
<b>Right of Way Director</b>				<b>FHWA</b>			
Printed Name				Printed Name		No Signature Required	
Signature		 Digitally signed by DM Loy Date: 2019.05.15 16:12:14 -04'00'		Signature		as per FHWA-KYTC	
Date				Date		Current Stewardship Agreement	

	KENTUCKY TRANSPORTATION CABINET Department of Highways DIVISION OF RIGHT OF WAY & UTILITIES	TC 62-226 Rev. 01/2016 Page 1 of 1
<b>RIGHT OF WAY CERTIFICATION</b>		

<input checked="" type="checkbox"/>	<b>Original</b>	<input type="checkbox"/>	<b>Re-Certification</b>	<b>RIGHT OF WAY CERTIFICATION</b>			
<b>ITEM #</b>		<b>COUNTY</b>		<b>PROJECT # (STATE)</b>		<b>PROJECT # (FEDERAL)</b>	
6-9017.30		Campbell		FD52 019 0027 015-016		HSIP 0272 (118)	
<b>PROJECT DESCRIPTION</b>							
Update the traffic signal heads and install median access control near the intersection of US 27 & KY 1998							
<input checked="" type="checkbox"/> <b>No Additional Right of Way Required</b>							
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.							
<input type="checkbox"/> <b>Condition # 1 (Additional Right of Way Required and Cleared)</b>							
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.							
<input type="checkbox"/> <b>Condition # 2 (Additional Right of Way Required with Exception)</b>							
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract							
<input type="checkbox"/> <b>Condition # 3 (Additional Right of Way Required with Exception)</b>							
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.							
Total Number of Parcels on Project		0	EXCEPTION (S) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION		
Number of Parcels That Have Been Acquired							
Signed Deed							
Condemnation							
Signed ROE							
<b>Notes/ Comments (Use Additional Sheet if necessary)</b>							
<b>LPA RW Project Manager</b>				<b>Right of Way Supervisor</b>			
Printed Name				Printed Name		Brian Cox	
Signature				Signature		 2019.05.15 12:40:47	
Date				Date		-04'00'	
<b>Right of Way Director</b>				<b>FHWA</b>			
Printed Name				Printed Name			
Signature		 Digitally signed by DM Loy Date: 2019.05.15 16:11:45 -04'00'		Signature		No Signature Required as per FHWA-KYTC Current Stewardship Agreement	
Date				Date			

	KENTUCKY TRANSPORTATION CABINET Department of Highways DIVISION OF RIGHT OF WAY & UTILITIES  <b>RIGHT OF WAY CERTIFICATION</b>	TC 62-226 Rev. 01/2016 Page 1 of 1
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<input checked="" type="checkbox"/>	<b>Original</b>	<input type="checkbox"/>	<b>Re-Certification</b>	<b>RIGHT OF WAY CERTIFICATION</b>
<b>ITEM #</b>	<b>COUNTY</b>	<b>PROJECT # (STATE)</b>	<b>PROJECT # (FEDERAL)</b>	
6-9017.40	Kenton	FD52 059 1303 003-005	HSIP 8122 (030)	
<b>PROJECT DESCRIPTION</b>				

Update the traffic signal heads and update the striping at the intersection of KY 1303 & KY 236

**No Additional Right of Way Required**

Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.

**Condition # 1 (Additional Right of Way Required and Cleared)**

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**Condition # 2 (Additional Right of Way Required with Exception)**

The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract

**Condition # 3 (Additional Right of Way Required with Exception)**

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Total Number of Parcels on Project	0	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
<b>Number of Parcels That Have Been Acquired</b>			
Signed Deed			
Condemnation			
Signed ROE			

**Notes/ Comments (Use Additional Sheet if necessary)**

<b>LPA RW Project Manager</b>		<b>Right of Way Supervisor</b>	
Printed Name		Printed Name	Brian Cox
Signature		Signature	 2019.05.15 12:41:38
Date		Date	-04'00'
<b>Right of Way Director</b>		<b>FHWA</b>	
Printed Name		Printed Name	No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Signature		Signature	
Date	Digitally signed by DM Loy Date: 2019.05.15 16:11:09 -04'00'	Date	

	KENTUCKY TRANSPORTATION CABINET Department of Highways DIVISION OF RIGHT OF WAY & UTILITIES  <b>RIGHT OF WAY CERTIFICATION</b>	TC 62-226 Rev. 01/2016 Page 1 of 1
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<input checked="" type="checkbox"/>	<b>Original</b>	<input type="checkbox"/>	<b>Re-Certification</b>	<b>RIGHT OF WAY CERTIFICATION</b>		
<b>ITEM #</b>	<b>COUNTY</b>	<b>PROJECT # (STATE)</b>		<b>PROJECT # (FEDERAL)</b>		
6-9017.50	Boone	FD52 008 1829 000-001		HSIP 9010 (344)		
<b>PROJECT DESCRIPTION</b>						
Update the traffic signal heads, update the signing, and install median access control near the intersection of KY 1829 & Safeway Drive						
<input checked="" type="checkbox"/> <b>No Additional Right of Way Required</b>						
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.						
<input type="checkbox"/> <b>Condition # 1 (Additional Right of Way Required and Cleared)</b>						
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<input type="checkbox"/> <b>Condition # 2 (Additional Right of Way Required with Exception)</b>						
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<input type="checkbox"/> <b>Condition # 3 (Additional Right of Way Required with Exception)</b>						
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Total Number of Parcels on Project		0	<b>EXCEPTION (S) Parcel #</b>		<b>ANTICIPATED DATE OF POSSESSION WITH EXPLANATION</b>	
<b>Number of Parcels That Have Been Acquired</b>						
Signed Deed						
Condemnation						
Signed ROE						
<b>Notes/ Comments (Use Additional Sheet if necessary)</b>						
<b>LPA RW Project Manager</b>				<b>Right of Way Supervisor</b>		
Printed Name				Printed Name	Brian Cox	
Signature				Signature	 2019.05.15 12:42:28	
Date				Date	-04'00'	
<b>Right of Way Director</b>				<b>FHWA</b>		
Printed Name				Printed Name	No Signature Required as per FHWA-KYTC Current Stewardship Agreement	
Signature	Digitally signed by DM Loy Date: 2019.05.15 16:10:28 -04'00'			Signature		
Date				Date		

## UTILITIES AND RAIL CERTIFICATION NOTE

### Improvements at Various Intersections in Boone, Campbell, & Kenton Counties

Item No. 6-9017.10, .20, .30, .40, and .50

#### GENERAL PROJECT NOTE ON UTILITY PROTECTION

*Utility coordination efforts 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.*

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

- **WATER / SEWER**  
Sanitation District 1, Northern Kentucky Water District, City of Florence, and Boone County Water District has existing water and sewer mains within the limits of the project areas. These facilities are to remain and are **not to be disturbed**.
- **GAS / ELECTRIC**  
Duke Energy has underground and overhead facilities within the limits of the project areas. These facilities are to remain and are **not to be disturbed**.
- **COMMUNICATIONS**  
Cincinnati Bell, Charter Communications (Time Warner Cable, Spectrum), Century Link, and MCI Communications has underground and overhead facilities within the limits of the project areas. These facilities are to remain and are **not to be disturbed**.

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

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

N/A

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

N/A

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

N/A

## UTILITIES AND RAIL CERTIFICATION NOTE

### Improvements at Various Intersections in Boone, Campbell, & Kenton Counties Item No. 6-9017.10, .20, .30, .40, and .50

**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.

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.***

## UTILITIES AND RAIL CERTIFICATION NOTE

**Improvements at Various Intersections in Boone, Campbell, &  
Kenton Counties  
Item No. 6-9017.10, .20, .30, .40, and .50**

### AREA UTILITIES CONTACT LIST

**CONTACT INFORMATION WILL BE PROVIDED AT THE PRECONSTRUCTION MEETING**

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

# MATERIAL SUMMARY

**CONTRACT ID: 194125**

**121GR19T009-HSIP**

**0600818291901**

INDUSTRIAL ROAD (KY 1829) IMPROVEMENTS AT THE INTERSECTION OF KY 1829 AND SAFEWAY DR  
ASPHALT PAVEMENT & ROADWAY REHAB, A DISTANCE OF .15 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0615	02650	MAINTAIN & CONTROL TRAFFIC - (BOONE KY 1829 AT SAFEWAY)	1.00	LS
0620	02726	STAKING - (BOONE KY 1829 AT SAFEWAY)	1.00	LS
0625	06406	SBM ALUM SHEET SIGNS .080 IN	16.00	SQFT
0630	06410	STEEL POST TYPE 1	29.00	LF
0635	06514	PAVE STRIPING-PERM PAINT-4 IN	1,435.00	LF
0640	06568	PAVE MARKING-THERMO STOP BAR-24IN	40.00	LF
0645	06574	PAVE MARKING-THERMO CURV ARROW	7.00	EACH
0650	06598	PAVEMENT MARKING REMOVAL	173.00	SQFT
0655	22664EN	WATER BLASTING EXISTING STRIPE	482.00	LF
0660	22680EN	QWICK CURB MEDIAN SEPARATOR	340.00	LF
0665	24631EC	BARCODE SIGN INVENTORY	3.00	EACH
0670	24894EC	REMOVE - (PAVEMENT MARKER LENS)	15.00	EACH
0675	20188NS835	INSTALL LED SIGNAL-3 SECTION	8.00	EACH
0680	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
0685	24955ED	REMOVE SIGNAL EQUIPMENT - (BOONE KY 1829 AT SAFEWAY)	1.00	EACH
0690	02569	DEMOBILIZATION	1.00	LS

**CONTRACT ID: 194125**

**121GR19T009-HSIP**

**0601900091901**

AA HIGHWAY (KY 9) IMPROVEMENTS AT THE INTERSECTION OF KY 9 AND KY 1998/GLORIA TERRELL  
ASPHALT PAVEMENT & ROADWAY REHAB, A DISTANCE OF .5 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	645.00	TON
0010	00018	DRAINAGE BLANKET-TYPE II-ASPH	402.00	TON
0015	00100	ASPHALT SEAL AGGREGATE	14.00	TON
0020	00103	ASPHALT SEAL COAT	2.00	TON
0025	00214	CL3 ASPH BASE 1.00D PG64-22	887.00	TON
0030	00332	CL3 ASPH SURF 0.50A PG76-22	144.00	TON
0035	00356	ASPHALT MATERIAL FOR TACK	2.90	TON
0040	01897	ASPHALT WEDGE CURB	315.00	LF
0045	01921	STANDARD BARRIER MEDIAN TYPE 4	500.00	SQYD
0050	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	6.00	EACH
0055	02159	TEMP DITCH	765.00	LF
0060	02160	CLEAN TEMP DITCH	383.00	LF
0065	02200	ROADWAY EXCAVATION	773.00	CUYD
0070	02562	TEMPORARY SIGNS	240.00	SQFT

**MATERIAL SUMMARY**

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0075	02650	MAINTAIN & CONTROL TRAFFIC - (CAMPBELL KY 9 AT KY 1998)	1.00	LS
0080	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0085	02696	SHOULDER RUMBLE STRIPS	950.00	LF
0090	02701	TEMP SILT FENCE	765.00	LF
0095	02703	SILT TRAP TYPE A	1.00	EACH
0100	02704	SILT TRAP TYPE B	1.00	EACH
0105	02705	SILT TRAP TYPE C	1.00	EACH
0110	02706	CLEAN SILT TRAP TYPE A	1.00	EACH
0115	02707	CLEAN SILT TRAP TYPE B	1.00	EACH
0120	02708	CLEAN SILT TRAP TYPE C	1.00	EACH
0125	02726	STAKING - (CAMPBELL KY 9 AT KY 1998)	1.00	LS
0130	05950	EROSION CONTROL BLANKET	857.00	SQYD
0135	05952	TEMP MULCH	2,303.00	SQYD
0140	05953	TEMP SEEDING AND PROTECTION	1,727.00	SQYD
0145	05963	INITIAL FERTILIZER	.13	TON
0150	05964	MAINTENANCE FERTILIZER	.22	TON
0155	05985	SEEDING AND PROTECTION	3,455.00	SQYD
0160	05989	SPECIAL SEEDING CROWN VETCH	667.00	SQYD
0165	05992	AGRICULTURAL LIMESTONE	2.67	TON
0170	06404	FLEXIBLE DELINEATOR POST-M/Y	10.00	EACH
0175	06514	PAVE STRIPING-PERM PAINT-4 IN	11,098.00	LF
0180	06544	PAVE STRIPING-THERMO-8 IN W	284.00	LF
0185	06545	PAVE STRIPING-THERMO-8 IN Y	153.00	LF
0190	06568	PAVE MARKING-THERMO STOP BAR-24IN	165.00	LF
0195	06569	PAVE MARKING-THERMO CROSS-HATCH	426.00	SQFT
0200	06574	PAVE MARKING-THERMO CURV ARROW	20.00	EACH
0205	06575	PAVE MARKING-THERMO COMB ARROW	3.00	EACH
0210	06598	PAVEMENT MARKING REMOVAL	120.00	SQFT
0215	20430ED	SAW CUT	2,000.00	LF
0220	21289ED	LONGITUDINAL EDGE KEY	1,100.00	LF
0225	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	425.00	LF
0230	22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN	20.00	LF
0235	23608EC	YELLOW PAINT FOR MEDIAN SAFETY NOSE	30.00	SQFT
0240	00071	CRUSHED AGGREGATE SIZE NO 57	2.00	TON
0245	00078	CRUSHED AGGREGATE SIZE NO 2	2.00	TON
0250	00522	STORM SEWER PIPE-18 IN	4.00	LF
0255	00521	STORM SEWER PIPE-15 IN	212.00	LF
0260	01000	PERFORATED PIPE-4 IN	912.00	LF
0265	01010	NON-PERFORATED PIPE-4 IN	20.00	LF
0270	01028	PERF PIPE HEADWALL TY 3-4 IN	1.00	EACH
0275	01032	PERF PIPE HEADWALL TY 4-4 IN	1.00	EACH
0280	01310	REMOVE PIPE	7.00	LF
0285	01456	CURB BOX INLET TYPE A	2.00	EACH
0290	01585	REMOVE DROP BOX INLET	1.00	EACH
0295	01691	FLUME INLET TYPE 2	1.00	EACH
0300	01740	CORED HOLE DRAINAGE BOX CON-4 IN	2.00	EACH
0305	02483	CHANNEL LINING CLASS II	25.00	TON
0310	21597EN	REMOVE PERF PIPE HEADWALL	1.00	EACH
0315	20597EC	DITCH EXCAVATION	10.00	CUYD

## MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0320	22861EN	HIGH STRENGTH GEOTEXTILE FABRIC TY V	10.00	SQYD
0325	06406	SBM ALUM SHEET SIGNS .080 IN	15.75	SQFT
0330	06407	SBM ALUM SHEET SIGNS .125 IN	31.68	SQFT
0335	06410	STEEL POST TYPE 1	203.00	LF
0340	20418ED	REMOVE & RELOCATE SIGNS	3.00	EACH
0345	21373ND	REMOVE SIGN	1.00	EACH
0350	21596ND	GMSS TYPE D - (SURFACE MOUNT)	3.00	EACH
0355	24631EC	BARCODE SIGN INVENTORY	8.00	EACH
0360	04793	CONDUIT-1 1/4 IN	535.00	LF
0365	04830	LOOP WIRE	568.00	LF
0370	04850	CABLE-NO. 14/1 PAIR	2,260.00	LF
0375	04895	LOOP SAW SLOT AND FILL	364.00	LF
0380	20391NS835	ELECTRICAL JUNCTION BOX TYPE A	3.00	EACH
0385	02569	DEMOBILIZATION	1.00	LS
0390	04844	CABLE-NO. 14/5C	1,190.00	LF
0395	04820	TRENCHING AND BACKFILLING	535.00	LF

**CONTRACT ID: 194125**

**121GR19T009-HSIP**

**0601900271901**

ALEXANDRIA PIKE (US 27) IMPROVEMENTS AT THE INTERSECTION OF US 27 AND KY 1998 ASPHALT PAVEMENT & ROADWAY REHAB, A DISTANCE OF .15 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0470	02650	MAINTAIN & CONTROL TRAFFIC - (CAMPBELL US 27 AT KY 1998)	1.00	LS
0475	02726	STAKING - (CAMPBELL US 27 AT KY 1998)	1.00	LS
0480	06406	SBM ALUM SHEET SIGNS .080 IN	9.00	SQFT
0485	06410	STEEL POST TYPE 1	14.00	LF
0490	06514	PAVE STRIPING-PERM PAINT-4 IN	694.00	LF
0495	06568	PAVE MARKING-THERMO STOP BAR-24IN	12.00	LF
0500	06574	PAVE MARKING-THERMO CURV ARROW	6.00	EACH
0505	06598	PAVEMENT MARKING REMOVAL	86.00	SQFT
0510	22664EN	WATER BLASTING EXISTING STRIPE	546.00	LF
0515	22680EN	QWICK CURB MEDIAN SEPARATOR	297.00	LF
0520	24631EC	BARCODE SIGN INVENTORY	1.00	EACH
0525	24894EC	REMOVE - (PAVEMENT MARKER LENS)	13.00	EACH
0530	04844	CABLE-NO. 14/5C	1,306.00	LF
0535	20188NS835	INSTALL LED SIGNAL-3 SECTION	14.00	EACH
0540	24955ED	REMOVE SIGNAL EQUIPMENT - (CAMPBELL US 27 AT KY 1998)	1.00	EACH
0545	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 194125**

**121GR19T009-HSIP**

**0605913031901**

TURKEYFOOT ROAD (KY 1303) IMPROVEMENTS AT THE INTERSECTION OF KY 1303 AND DUDLEY ROAD ASPHALT PAVEMENT & ROADWAY REHAB, A DISTANCE OF .2 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0400	02650	MAINTAIN & CONTROL TRAFFIC - (KENTON KY 1303 AT DUDLEY)	1.00	LS
0405	02726	STAKING - (KENTON KY 1303 AT DUDLEY)	1.00	LS
0410	06514	PAVE STRIPING-PERM PAINT-4 IN	1,109.00	LF
0415	06568	PAVE MARKING-THERMO STOP BAR-24IN	14.00	LF
0420	06574	PAVE MARKING-THERMO CURV ARROW	11.00	EACH
0425	06598	PAVEMENT MARKING REMOVAL	78.00	SQFT
0430	22664EN	WATER BLASTING EXISTING STRIPE	417.00	LF
0435	24894EC	REMOVE - (PAVEMENT MARKER LENS)	5.00	EACH
0440	04844	CABLE-NO. 14/5C	173.00	LF
0445	20188NS835	INSTALL LED SIGNAL-3 SECTION	4.00	EACH
0450	20189NS835	INSTALL LED SIGNAL-5 SECTION	1.00	EACH
0455	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
0460	24955ED	REMOVE SIGNAL EQUIPMENT - (KENTON KY 1303 AT DUDLEY)	1.00	EACH
0465	02569	DEMOBILIZATION	1.00	LS

**CONTRACT ID: 194125**

**121GR19T009-HSIP**

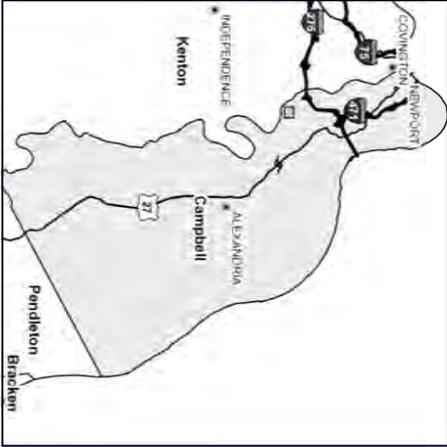
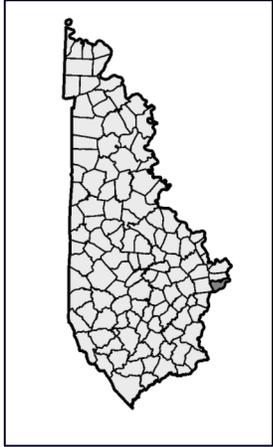
**0605913031902**

TURKEYFOOT ROAD (KY 1303) IMPROVEMENTS AT THE INTERSECTION OF KY 1303 AND KY 236 ASPHALT PAVEMENT & ROADWAY REHAB, A DISTANCE OF .25 MILES.

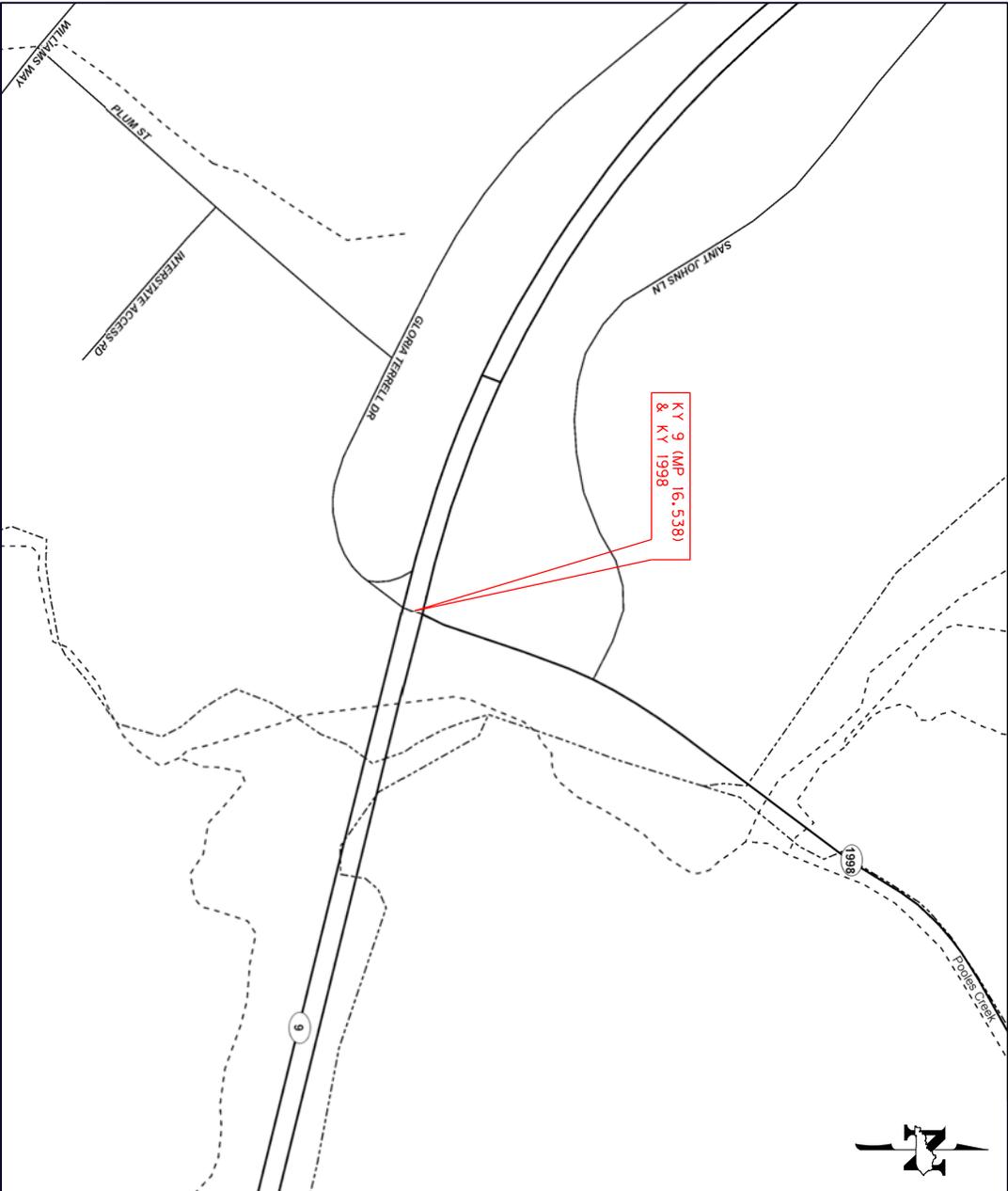
Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0550	02650	MAINTAIN & CONTROL TRAFFIC - (KENTON KY 1303 AT KY 236)	1.00	LS
0555	02726	STAKING - (KENTON KY 1303 AT KY 236)	1.00	LS
0560	06514	PAVE STRIPING-PERM PAINT-4 IN	240.00	LF
0565	06568	PAVE MARKING-THERMO STOP BAR-24IN	28.00	LF
0570	06573	PAVE MARKING-THERMO STR ARROW	2.00	EACH
0575	06574	PAVE MARKING-THERMO CURV ARROW	12.00	EACH
0580	06598	PAVEMENT MARKING REMOVAL	56.00	SQFT
0585	22664EN	WATER BLASTING EXISTING STRIPE	200.00	LF
0590	24894EC	REMOVE - (PAVEMENT MARKER LENS)	6.00	EACH
0595	20188NS835	INSTALL LED SIGNAL-3 SECTION	4.00	EACH
0600	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
0605	24955ED	REMOVE SIGNAL EQUIPMENT - (KENTON KY 1303 AT KY 236)	1.00	EACH
0610	02569	DEMOBILIZATION	1.00	LS

**CAMPBELL COUNTY**  
**Intersection Improvement at KY 9 (AA Hwy) and**  
**KY 1998 (Pooles Creek Road) and Gloria Terrell Drive**

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10



Commonwealth of Kentucky  
DEPARTMENT OF HIGHWAYS  
PLANS OF  
PROPOSED PROJECT  
**CAMPBELL COUNTY**  
KY 9



<b>CAMPBELL COUNTY</b> <b>KY 9 (AA HIGHWAY) MP 16.538</b> <b>@ KY 1998 &amp; GLORIA TERRELL DRIVE</b> <b>ITEM NO. 6-9017.10</b> <b>GENERAL SUMMARY</b> <b>SHEET 1 OF 2</b>			
ITEM NUMBER	ITEM	UNIT	QUANTITY
1	DGA BASE (1)	TON	645
18	DRAINAGE BLANKET-TYPE II-ASPH (1)	TON	402
71	CRUSHED AGGREGATE SIZE NO 57 (2)	TON	2
78	CRUSHED AGGREGATE SIZE NO 2 (2)	TON	2
100	ASPHALT SEAL AGGREGATE (1)	TON	14
103	ASPHALT SEAL COAT (1)	TON	2
214	CL3 ASPH BASE 1.00D PG64-22 (1)	TON	887
332	CL3 ASPH SURF 0.50A PG76-22 (1)	TON	144
356	ASPHALT MATERIAL FOR TACK (1)	TON	2.9
521	STORM SEWER PIPE-15 IN (2)	LF	212
522	STORM SEWER PIPE-18 IN (2)	LF	4
1000	PERFORATED PIPE-4 IN (2)	LF	912
1010	NON-PERFORATED PIPE-4 IN (2)	LF	20
1028	PERF PIPE HEADWALL TY 3-4 IN (2)	EACH	1
1032	PERF PIPE HEADWALL TY 4-4 IN (2)	EACH	1
1310	REMOVE PIPE (2)	LF	7
1456	CURB BOX INLET TYPE A (2)	EACH	2
1585	REMOVE DROP BOX INLET (2)	EACH	1
1691	FLUME INLET TYPE 2 (2)	EACH	1
1740	CORED HOLE DRAINAGE BOX CON - 4 IN (2)	EACH	2
1897	ASPHALT WEDGE CURB (1)	LF	315
1921	STANDARD BARRIER MEDIAN TYPE 4 (MODIFIED) (1)	SQYD	500
1987	DELINEATOR FOR GUARDRAIL B/W	EACH	6
2159	TEMP DITCH	LF	765
2160	CLEAN TEMP DITCH	LF	383
2200	ROADWAY EXCAVATION (A)	CUYD	773
2483	CHANNEL LINING CLASS II (2)	TON	25
2562	TEMPORARY SIGNS	SQFT	240
2569	DEMOBILIZATION	LS	1
21597EN	REMOVE PERF PIPE HEADWALL (2)	EACH	1
2650	MAINTAIN & CONTROL TRAFFIC (KY 9 @ KY 1998)	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2696	SHOULDER RUMBLE STRIPS (1)	LF	950
2701	TEMP SILT FENCE	LF	765
2703	SILT TRAP TYPE A	EACH	1
2704	SILT TRAP TYPE B	EACH	1
2705	SILT TRAP TYPE C	EACH	1
2706	CLEAN SILT TRAP TYPE A	EACH	1
2707	CLEAN SILT TRAP TYPE B	EACH	1
(1) CARRIED OVER FROM THE PAVING SUMMARY (2) CARRIED OVER FROM THE PIPE DRAINAGE SUMMARY (3) CARRIED OVER FROM THE STRIPING / PAVEMENT MARKING SUMMARY (4) CARRIED OVER FROM THE SIGNING SUMMARY (A) TOTAL PROJECT EARTHWORK SUMMARY: EXCAVATION = 773 CUYD, EMBANKMENT = 164 CUYD			

<b>CAMPBELL COUNTY</b> <b>KY 9 (AA HIGHWAY) MP 16.538</b> <b>@ KY 1998 &amp; GLORIA TERRELL DRIVE</b> <b>ITEM NO. 6-9017.10</b> <b>GENERAL SUMMARY</b> <b>SHEET 2 OF 2</b>			
ITEM NUMBER	ITEM	UNIT	QUANTITY
2708	CLEAN SILT TRAP TYPE C	EACH	1
2726	STAKING (KY 9 @ KY 1998)	LS	1
4793	CONDUIT-1 1/4 IN	LF	535
4830	LOOP WIRE	LF	568
4850	CABLE-NO. 14/1 PAIR	LF	2,260
4895	LOOP SAW SLOT AND FILL	LF	364
5950	EROSION CONTROL BLANKET	SQYD	857
5952	TEMP MULCH	SQYD	2,303
5953	TEMP SEEDING AND PROTECTION	SQYD	1,727
5963	INITIAL FERTILIZER	TON	0.13
5964	MAINTENANCE FERTILIZER	TON	0.22
5985	SEEDING AND PROTECTION	SQYD	3,455
5989	SPECIAL SEEDING CROWN VETCH	SQYD	667
5992	AGRICULTURAL LIMESTONE	TON	2.67
6404	FLEXIBLE DELINEATOR POST-M/Y	EACH	10
6406	SBM ALUM SHEET SIGNS .080 IN (4)	SQFT	15.75
6407	SBM ALUM SHEET SIGNS .125 IN (4)	SQFT	32.75
6410	STEEL POST TYPE 1 (4)	LF	203
6514	PAVE STRIPING-PERM PAINT-4 IN (3)	LF	11,098
6544	PAVE STRIPING-THERMO-8 IN W (3)	LF	284
6545	PAVE STRIPING-THERMO-8 IN Y (3)	LF	153
6568	PAVE MARKING-THERMO STOP BAR-24IN (3)	LF	165
6569	PAVE MARKING-THERMO CROSS-HATCH (3)	SQFT	426
6574	PAVE MARKING-THERMO CURV ARROW (3)	EACH	20
6575	PAVE MARKING-THERMO COMB ARROW (3)	EACH	3
6598	PAVEMENT MARKING REMOVAL (3)	SQFT	120
20391NS835	ELECTRIAL JUNCTION BOX TYPE A	EACH	3
20418ED	REMOVE & RELOCATE SIGNS (4)	EACH	3
20430ED	SAW CUT (1)	LF	2,000
20597EC	DITCH EXCAVATION (2)	CUYD	10
21289ED	LONGITUDINAL EDGE KEY (1)	LF	1,100
21373ND	REMOVE SIGN (4)	EACH	1
21596ND	GMSS TYPE D SURFACE MOUNT (4)	EACH	3
21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	LF	425
22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN (3)	LF	20
22861EN	HIGH STRENGTH GEOTEXTILE FABRIC TY V (2)	SQYD	10
23608EC	YELLOW PAINT FOR MEDIAN SAFETY NOSE (3)	SQFT	30
24631EC	BARCODE SIGN INVENTORY (4)	EACH	8
4820	TRENCHING AND BACKFILLING	LF	535
4844	CABLE-NO. 14/5C	LF	1,190
(1) CARRIED OVER FROM THE PAVING SUMMARY (2) CARRIED OVER FROM THE PIPE DRAINAGE SUMMARY (3) CARRIED OVER FROM THE STRIPING / PAVEMENT MARKING SUMMARY (4) CARRIED OVER FROM THE SIGNING SUMMARY (A) TOTAL PROJECT EARTHWORK SUMMARY: EXCAVATION = 773 CUYD, EMBANKMENT = 164 CUYD			

CAMPBELL COUNTY: KY 9 @ KY 1998			
MILEPOST 16.538			
ITEM NO. 6-9017.10			
PAVING SUMMARY			
PAVING AREAS		PAVING QUANTITIES	
ITEM	TOTAL	ITEM	TOTAL
<b><u>SB RIGHT TURN LANE</u></b>			
	<b>SQYD</b>		<b>TON</b>
1.5" CL3 ASPH SURF 0.50A PG76-22	730	CL3 ASPH SURF 0.50A PG76-22	61
9.5" CL3 ASPH BASE 1.00D PG64-22	690	CL3 ASPH BASE 1.00D PG64-22	361
4" DRAINAGE BLANKET-TYPE II-ASPH	786	DRAINAGE BLANKET-TYPE II-ASPH	173
6" DGA BASE	806	DGA BASE	279
ASPHALT MATERIAL FOR TACK	690	ASPHALT MATERIAL FOR TACK	1.2
	<b>LF</b>		
SHOULDER RUMBLE STRIPS	475		
SAW CUT	550		
LONGITUDINAL EDGE KEY	550		
<b><u>SB RIGHT TURN LANE SHOULDER</u></b>			
	<b>SQYD</b>		<b>TON</b>
1.5" CL3 ASPH SURF 0.50A PG76-22	163	CL3 ASPH SURF 0.50A PG76-22	14
9.5" CL3 ASPH BASE 1.00D PG64-22	163	CL3 ASPH BASE 1.00D PG64-22	86
4" DRAINAGE BLANKET-TYPE II-ASPH	163	DRAINAGE BLANKET-TYPE II-ASPH	36
6" DGA BASE	163	DGA BASE	57
ASPHALT MATERIAL FOR TACK	163	ASPHALT MATERIAL FOR TACK	0.3
ASPHALT SEAL AGGREGATE	244	ASPHALT SEAL AGGREGATE	7
ASPHALT SEAL COAT	244	ASPHALT SEAL COAT	1
<b><u>NB RIGHT TURN LANE</u></b>			
	<b>SQYD</b>		<b>TON</b>
1.5" CL3 ASPH SURF 0.50A PG76-22	620	CL3 ASPH SURF 0.50A PG76-22	52
9.5" CL3 ASPH BASE 1.00D PG64-22	643	CL3 ASPH BASE 1.00D PG64-22	336
4" DRAINAGE BLANKET-TYPE II-ASPH	675	DRAINAGE BLANKET-TYPE II-ASPH	149
6" DGA BASE	695	DGA BASE	240
ASPHALT MATERIAL FOR TACK	643	ASPHALT MATERIAL FOR TACK	1.1
	<b>LF</b>		
ASPHALT WEDGE CURB	315		
SHOULDER RUMBLE STRIPS	475		
SAW CUT	550		
LONGITUDINAL EDGE KEY	550		
<b><u>NB RIGHT TURN LANE SHOULDER</u></b>			
	<b>SQYD</b>		<b>TON</b>
1.5" CL3 ASPH SURF 0.50A PG76-22	197	CL3 ASPH SURF 0.50A PG76-22	17
9.5" CL3 ASPH BASE 1.00D PG64-22	197	CL3 ASPH BASE 1.00D PG64-22	104
4" DRAINAGE BLANKET-TYPE II-ASPH	197	DRAINAGE BLANKET-TYPE II-ASPH	44
6" DGA BASE	197	DGA BASE	69
ASPHALT MATERIAL FOR TACK	197	ASPHALT MATERIAL FOR TACK	0.3
ASPHALT SEAL AGGREGATE	244	ASPHALT SEAL AGGREGATE	7
ASPHALT SEAL COAT	244	ASPHALT SEAL COAT	1
<b><u>RAISED MEDIAN</u></b>			
	<b>SQYD</b>		
STANDARD BARRIER MEDIAN TYPE 4 (MODIFIED)	500		
	<b>LF</b>		
SAW CUT	900		
<b>PAVING SUMMARY</b>			
CODE	ITEM	UNITS	PROJECT TOTAL
1	DGA BASE	TON	645
18	DRAINAGE BLANKET-TYPE II-ASPH	TON	402
100	ASPHALT SEAL AGGREGATE	TON	14
103	ASPHALT SEAL COAT	TON	2
214	CL3 ASPH BASE 1.00D PG64-22	TON	887
332	CL3 ASPH SURF 0.50A PG76-22	TON	144
356	ASPHALT MATERIAL FOR TACK	TON	2.9
1897	ASPHALT WEDGE CURB	LF	315
1921	STANDARD BARRIER MEDIAN TYPE 4 (MODIFIED)	SQYD	500
2696	SHOULDER RUMBLE STRIPS	LF	950
20430ED	SAW CUT	LF	2,000
21289ED	LONGITUDINAL EDGE KEY	LF	1,100
<b>NOTES:</b>			
All asphalt mixtures shall be estimated at 110 lbs. per SQ. YD. per inch of depth unless noted otherwise			
DGA Base estimated at 115 lbs. per SQ. YD. per inch of depth			
Asphalt Material for Tack: Application rate of 0.84 lbs. per SQ YD.			
① First course estimated at 30 lbs. per SQ. YD. Second course estimated at 20 lbs. per SQ. YD.			
② First course estimated at 3.2 lbs. per SQ. YD. Second course estimated at 2.8 lbs. per SQ. YD.			

CAMPBELL COUNTY: KY 9 @ KY 1998 MILEPOST 16.538 ITEM NO. 6-9017.10 PIPE DRAINAGE SUMMARY																		
STATION	CULVERT PIPE ①		PERFORATED PIPE UNDERDRAIN ①									MISCELLANEOUS ①					REMARKS	
	STORM SEWER PIPE-15 IN	STORM SEWER PIPE-18 IN	CRUSHED AGGREGATE SIZE NO 57	CRUSHED AGGREGATE SIZE NO 2	PERFORATED PIPE-4 IN	NON-PERFORATED PIPE-4 IN	PERF PIPE HEADWALL TY 3-4 IN	PERF PIPE HEADWALL TY 4-4 IN	CORED HOLE DRAINAGE BOX CON- 4 IN	REMOVE PERF PIPE HEADWALL	HIGH STRENGTH GEOTEXTILE FABRIC TY V	REMOVE PIPE	CURB BOX INLET TYPE A	REMOVE DROP BOX INLET	FLUME INLET TYPE 2	CHANNEL LINING CLASS II		DITCH EXCAVATION
ITEM CODE	521	522	71	78	1000	1010	1028	1032	1740	21597EN	22861EN	1310	1456	1585	1691	2483	20597EC	
UNIT TO BID	LF		TON		LF			EACH		SQYD	LF		EACH		TON	CUYD		
117+00	212		1 ②		6 ②				1 ②		5 ②		1					
119+12		4	1 ②		6 ②				1 ②		5 ②	7	1	1				
119+80 - 124+50					470													
124+50				1		10		1										
126+90 - 131+20					430													
129+54														1	25	10		
131+20				1		10	1			1								
<b>PROJECT TOTALS</b>	<b>212</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>912</b>	<b>20</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>10</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>25</b>	<b>10</b>	<b>PROJECT TOTALS</b>

**NOTES:**  
 ① THE CONTRACTOR SHALL FIELD VERIFY TYPES AND DIMENSIONS PRIOR TO ORDERING.  
 ② QUANTITIES INCLUDED IN THE EVENT MEDIAN UNDERDRAIN IS DISTURBED. GIVEN THIS SCENARIO, CONSTRUCT NEW UNDERDRAIN AS DIRECTED BY ENGINEER.

CAMPBELL COUNTY KY 9 AND KY 1998 ITEM NO. 6-9017.10 STRIPING / PAVEMENT MARKING SUMMARY						
STRIPING						
BEGIN		END		LENGTH	DESCRIPTION	LF
STATION	OFFSET	STATION	OFFSET			
116+00	32.0' LT	119+69	87.7' LT	395	4" Single Solid White Line	395
116+00	20.0' LT	125+06	20.0' LT	899	4" Single Dashed White Line	225
116+00	8.0' LT	121+91	8.0' LT	589	4" Single Solid Yellow Line	589
116+00	8.0' RT	121+91	1.0' RT	593	4" Single Solid Yellow Line	593
116+00	20.0' RT	124+87	20.0' RT	895	4" Single Dashed White Line	224
116+00	32.0' RT	124+97	133.8' RT	992	4" Single Solid White Line	992
119+56	32.0' LT	120+40	32.0' LT	83	8" Thermoplastic Solid White Line	83
119+56	32.0' LT	119+87	87.7' LT	66	8" Thermoplastic Solid Yellow Line	66
119+87	87.7' LT	120+40	32.0' LT	87	8" Thermoplastic Solid Yellow Line	87
120+03	87.7' LT	125+67	120.2' LT	642	4" Single Solid White Line	642
120+40	32.0' LT	122+33	32.0' LT	191	4" Single Solid White Line	191
121+60	32.0' RT	124+92	32.0' RT	336	4" Single Solid White Line	336
121+91	8.0' LT	125+06	8.0' LT	314	4" Double Solid Yellow Line	628
121+91	1.0' RT	125+06	4.0' LT	315	4" Double Solid Yellow Line	630
122+82	8.0' RT	125+37	8.0' RT	256	4" Single Solid White Line	256
124+87	20.0' RT	125+37	20.0' RT	50	4" Single Solid White Line	50
124+92	32.0' RT	125+56	32.0' RT	65	8" Thermoplastic Solid White Line	65
124+92	32.0' RT	125+27	89.8' RT	71	8" Thermoplastic Solid White Line	71
125+10	142.1' RT	125+60	48.5' RT	106	4" Double Solid Yellow Line	212
125+26	152.1' RT	134+00	32.0' RT	938	4" Single Solid White Line	938
125+27	89.8' RT	125+56	32.0' RT	65	8" Thermoplastic Solid White Line	65
125+46	104.8' RT	125+72	48.9' RT	62	4" Single Solid White Line	62
125+76	73.1' LT	125+79	119.4' LT	47	4" Single Solid White Line	47
125+89	72.3' LT	125+92	118.6' LT	47	4" Double Solid Yellow Line	94
126+05	117.8' LT	134+00	32.0' LT	850	4" Single Solid White Line	850
126+23	32.0' LT	129+50	32.0' LT	327	4" Single Solid White Line	327
126+23	20.0' LT	126+73	20.0' LT	50	4" Single Solid White Line	50
126+23	8.0' LT	128+62	8.0' LT	239	4" Single Solid White Line	239
126+43	4.0' RT	129+64	1.0' LT	321	4" Double Solid Yellow Line	642
126+43	8.0' RT	129+64	8.0' RT	321	4" Double Solid Yellow Line	642
126+43	20.0' RT	134+00	20.0' RT	757	4" Single Dashed White Line	190
126+73	20.0' LT	134+00	20.0' LT	727	4" Single Dashed White Line	182
129+64	1.0' LT	134+00	8.0' LT	436	4" Single Solid Yellow Line	436
129+64	8.0' RT	134+00	8.0' RT	436	4" Single Solid Yellow Line	436
PAVEMENT MARKINGS - ARROWS						
STATION	OFFSET	DESCRIPTION		EACH		
119+70	60.2' LT	Thermoplastic Curve Arrow		1		
120+64	37.5' LT	Thermoplastic Curve Arrow		1		
121+63	38.0' RT	Thermoplastic Curve Arrow		1		
122+08	37.5' LT	Thermoplastic Curve Arrow		1		
122+36	38.0' RT	Thermoplastic Curve Arrow		1		
122+99	2.0' RT	Thermoplastic Curve Arrow		1		
123+10	38.0' RT	Thermoplastic Curve Arrow		1		
123+83	38.0' RT	Thermoplastic Curve Arrow		1		
124+44	2.0' RT	Thermoplastic Curve Arrow		1		
124+56	38.0' RT	Thermoplastic Curve Arrow		1		
125+59	66.0' RT	Thermoplastic Combo Arrow		1		
125+69	69.6' RT	Thermoplastic Curve Arrow		1		
125+72	96.6' LT	Thermoplastic Curve Arrow		1		
125+78	177.5' LT	Thermoplastic Curve Arrow		1		
125+83	96.6' LT	Thermoplastic Combo Arrow		1		
125+89	179.0' LT	Thermoplastic Combo Arrow		1		
126+59	38.0' LT	Thermoplastic Curve Arrow		1		
126+70	2.0' LT	Thermoplastic Curve Arrow		1		
127+31	38.0' LT	Thermoplastic Curve Arrow		1		
128+03	38.0' LT	Thermoplastic Curve Arrow		1		
128+07	2.0' LT	Thermoplastic Curve Arrow		1		
128+75	38.0' LT	Thermoplastic Curve Arrow		1		
129+47	38.0' LT	Thermoplastic Curve Arrow		1		

CAMPBELL COUNTY KY 9 AND KY 1998 ITEM NO. 6-9017.10 STRIPING / PAVEMENT MARKING SUMMARY			
PAVEMENT MARKINGS - STOP BAR			
STATION	OFFSET	DESCRIPTION	LF
119+49 - 119+61	42.0' LT	24" STOP BAR	16
125+06	4.0' LT - 8.0' RT	24" STOP BAR	12
125+37	8.0' RT - 32.0' RT	24" STOP BAR	24
125+60 - 125+89	73.0' LT	24" STOP BAR	28
125+60 - 125+71	48.4' RT - 53.9' RT	24" STOP BAR	12
125+72 - 125+86	48.8' RT - 53.5' RT	24" STOP BAR	14
126+23	53.4' LT - 8.0' LT	24" STOP BAR	47
126+43	8.0' LT - 4.0' RT	24" STOP BAR	12
PAVEMENT MARKINGS - CROSS-HATCH			
STATION	OFFSET	DESCRIPTION	SQFT
119+56 - 120+40	Varies LT	Cross Hatch Width (X) = 2' Spacing (Y) = 20'	168
124+92 - 125+56	Varies RT	Cross Hatch Width (X) = 2' Spacing (Y) = 20'	258
PAVEMENT MARKINGS - YELLOW PAINT FOR MEDIAN NOSE			
STATION	OFFSET	DESCRIPTION	SQFT
121+90	8.0' LT - 1.0' RT	Yellow Paint for Median Safety Nose	30
PAVEMENT MARKINGS - YIELD BAR			
STATION	OFFSET	DESCRIPTION	LF
125+06 - 125+26	Varies RT	36" YIELD BAR	20
PAVEMENT MARKING REMOVAL			
STATION	OFFSET	DESCRIPTION	SQFT
125+15	8.0' RT - 32.0' RT	EX. 24" STOP BAR	48
126+43	8.0' LT - 32.0' LT	EX. 24" STOP BAR	48
126+50	8.0' LT - 4.0' RT	EX. 24" STOP BAR	24

BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	11,098
6544	PAVE STRIPING-THERMO-8 IN W	LF	284
6545	PAVE STRIPING-THERMO-8 IN Y	LF	153
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	165
6569	PAVE MARKING-THERMO CROSS-HATCH	SQFT	426
6574	PAVE MARKING-THERMO CURV ARROW	EACH	20
6575	PAVE MARKING-THERMO COMB ARROW	EACH	3
6598	PAVEMENT MARKING REMOVAL	SQFT	120
22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN	LF	20
23608EC	YELLOW PAINT FOR MEDIAN SAFETY NOSE	SQFT	30

**CAMPBELL COUNTY  
KY 9 (AA HIGHWAY) MP 16.538  
@ KY 1998 & GLORIA TERRELL DRIVE  
ITEM NO. 6-9017.10  
SIGNING SUMMARY**

STATION	SIGN SPECIFICATION	SIGN LOCATION			SIGN SIZE			STEEL POST TYPE 1	REMOVE SIGN	REMOVE & RELOCATE	INSTALLATION TYPE	COMMENTS
		SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	HORIZ. X VERT.	.080 ALUM AREA	.125 ALUM AREA					
116+75	R4-7 & OM-3L	MED	NB/SB	KY 9	---	---	---		1	---	---	
119+45	R1-1	LT	WB	ENTR.	36" X 36"	---	9	28 (2 Total Posts)	---	---	Std w/ Soil Plate	Stop Sign for Right In/Right Out Entrance
119+65	R3-5	LT	WB	ENTR.	30" X 36"	7.5	---	14	---	---	Std w/ Soil Plate	Right Turn Only Sign for Right In/Right Out Entrance
119+70	R6-1	MED	WB	KY 9	54" X 18"	---	6.75	17 (2 Total Posts)	---	---	Type D Surface Mount (2)	One Way Sign
120+50	CUSTOM	RT	SB	KY 9	---	---	---	30 (2 Total Posts)	---	1	Std w/ Soil Plate	Remove & Relocate Existing Sign to STA. 120+50
121+65	R4-7c	MED	NB	KY 9	18" X 30"	3.75	---	10	---	---	Type D Surface Mount (1)	Keep Right Sign
	OMI-3		NB	KY 9	18" X 18"	2.25	---		---	---		Object Marker Sign
	OMI-3		SB	KY 9	18" X 18"	2.25	---		---	---		Object Marker Sign
122+85	CUSTOM	RT	SB	KY 9	---	---	---	---	---	---	Non KYTC Standard Installation	Sign to be Removed by KYTC Forces Prior to Construction
123+70	R14-1 & M6-3	RT	SB	KY 9	---	---	---	16	---	1	Std w/ Soil Plate	Remove & Relocate Existing Sign Assembly to STA. 123+70
124+00	R8-3a	LT	NB	KY 9	36" X 36"	---	9	28 (2 Total Posts)	---	---	Std w/ Soil Plate	No Parking
125+00	R1-2	RT	SB	KY 9	48" X 48" X 48"	---	6.93	30 (2 Total Posts)	---	---	Std w/ Soil Plate	Yield Sign
128+50	CUSTOM	LT	NB	KY 9	---	---	---	30 (2 Total Posts)	---	1	Std w/ Soil Plate	Remove & Relocate Existing Sign to STA. 128+50
130+55	CUSTOM	LT	NB	KY 9	---	---	---	---	---	---	Non KYTC Standard Installation	Sign to be Removed by KYTC Forces Prior to Construction

BID ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	15.75
6407	SBM ALUM SHEET SIGNS .125 IN	SQFT	31.68
6410	STEEL POST TYPE 1	LF	203
20418ED	REMOVE & RELOCATE SIGNS	EACH	3
21373ND	REMOVE SIGN	EACH	1
21596ND	GMSS TYPE D SURFACE MOUNT	EACH	3
24631EC	BARCODE SIGN INVENTORY	EACH	8



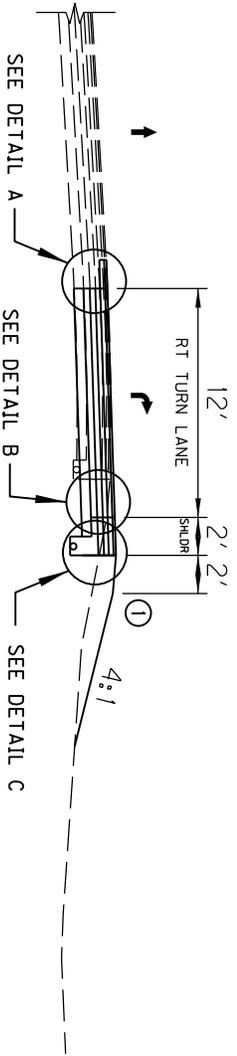
REFER TO THE SPECIAL NOTE FOR SIGNING, THE SPECIAL NOTE FOR BARCODES ON PERMANENT SIGNS, STANDARD SIGNING DETAIL SHEETS, AND SIGNING PLAN SHEET FOR MORE INFORMATION.

# TYPICAL SECTIONS

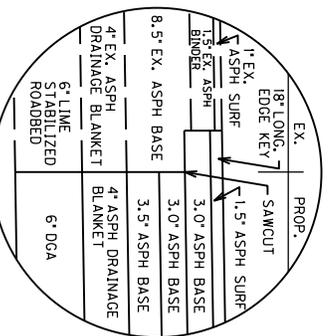
## SB RIGHT TURN LANE

KY 9

STA. 119 + 80 TO STA. 125 + 05



NOTE:  
LONGITUDINAL EDGE KEY SHALL INCLUDE MILLING OUT THE EXISTING ASPHALT TO A MINIMUM DEPTH AND WIDTH AS SHOWN, SO THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE.



DETAIL A

① ASPHALT SEAL COAT (2 APPLICATIONS) (SEE SPECIAL NOTE)

FIRST COURSE:

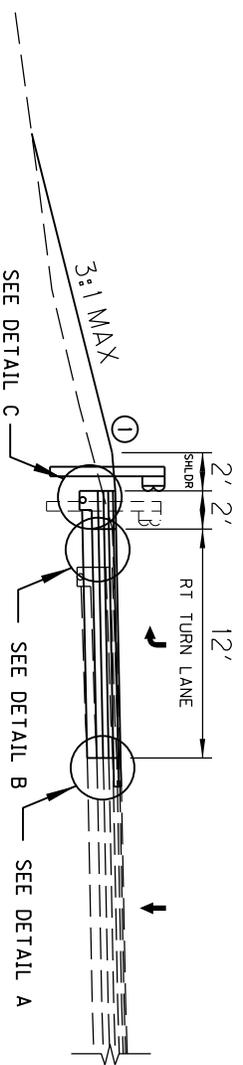
ASPHALT CURING SEAL APPLIED AT A RATE OF 3.2 LBS./SQ. YD)

ASPHALT SEAL AGGREGATE APPLIED AT A RATE OF 30 LBS./SQ. YD)

## NB RIGHT TURN LANE

KY 9

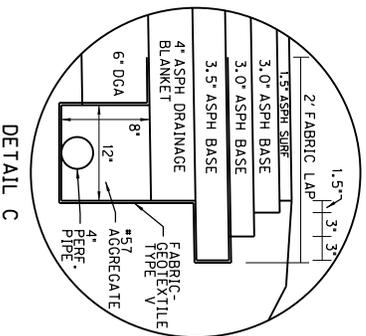
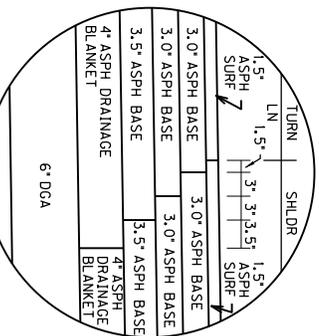
STA. 126 + 06 TO STA. 131 + 30



SECOND COURSE:  
ASPHALT CURING SEAL APPLIED AT A RATE OF 2.8 LBS./SQ. YD)

ASPHALT SEAL AGGREGATE APPLIED AT A RATE OF 20 LBS./SQ. YD)

DETAIL B



DETAIL C

KY 9 - RIGHT TURN LANES

KY 9 - RIGHT TURN LANE SHOULDERS

1.5" SURF — CL3 ASPH SURF 0.50A PG76-22

1.5" SURF — CL3 ASPH SURF 0.50A PG76-22

3" CL3 ASPH BASE 1,00D PG64-22  
3" CL3 ASPH BASE 1,00D PG64-22  
3.5" CL3 ASPH BASE 1,00D PG64-22  
4" ASPH DRAINAGE BLANKET  
6" DGA BASE

3" CL3 ASPH BASE 1,00D PG64-22  
3" CL3 ASPH BASE 1,00D PG64-22  
3.5" CL3 ASPH BASE 1,00D PG64-22  
4" ASPH DRAINAGE BLANKET  
6" DGA BASE

SCALE: NTS

KY 9 MP 16.538  
© KY 1998 & GLORIA TERRELL DR  
TYPICALS

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

# TYPICAL SECTIONS

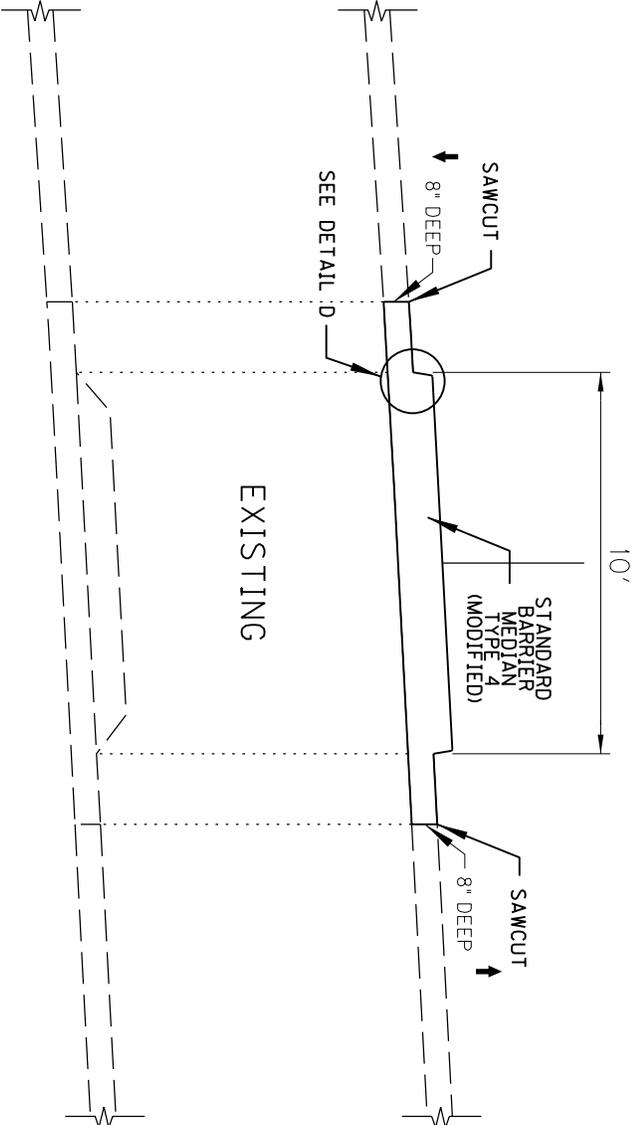
COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

## RAISED MEDIAN

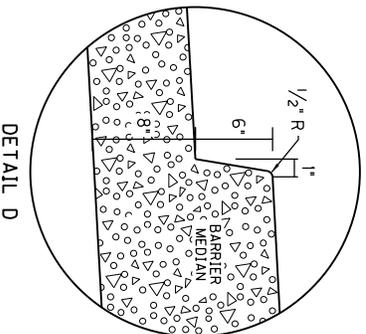
KY 9

STA. 116 + 00 TO STA. 120 + 50

PROPOSED



NOTE:  
REFER TO KYTC STANDARD DRAWINGS FOR STANDARD BARRIER MEDIAN FOR ADDITIONAL DETAILS.  
TRANSITION EXISTING MOUNTABLE MEDIAN & LIP CURB AND GUTTER TO PROPOSED STANDARD BARRIER MEDIAN TYPE 4 AT BEGINNING AND END OF RAISED MEDIAN STATION LIMITS. MEDIAN TRANSITION SHALL OCCUR DURING THE FIRST 10 FEET AND LAST 10 FEET OF RAISED MEDIAN STATION LIMITS. THE TRANSITION OF MEDIAN SHALL BE INCIDENTAL TO BID ITEM STANDARD BARRIER MEDIAN TYPE 4.

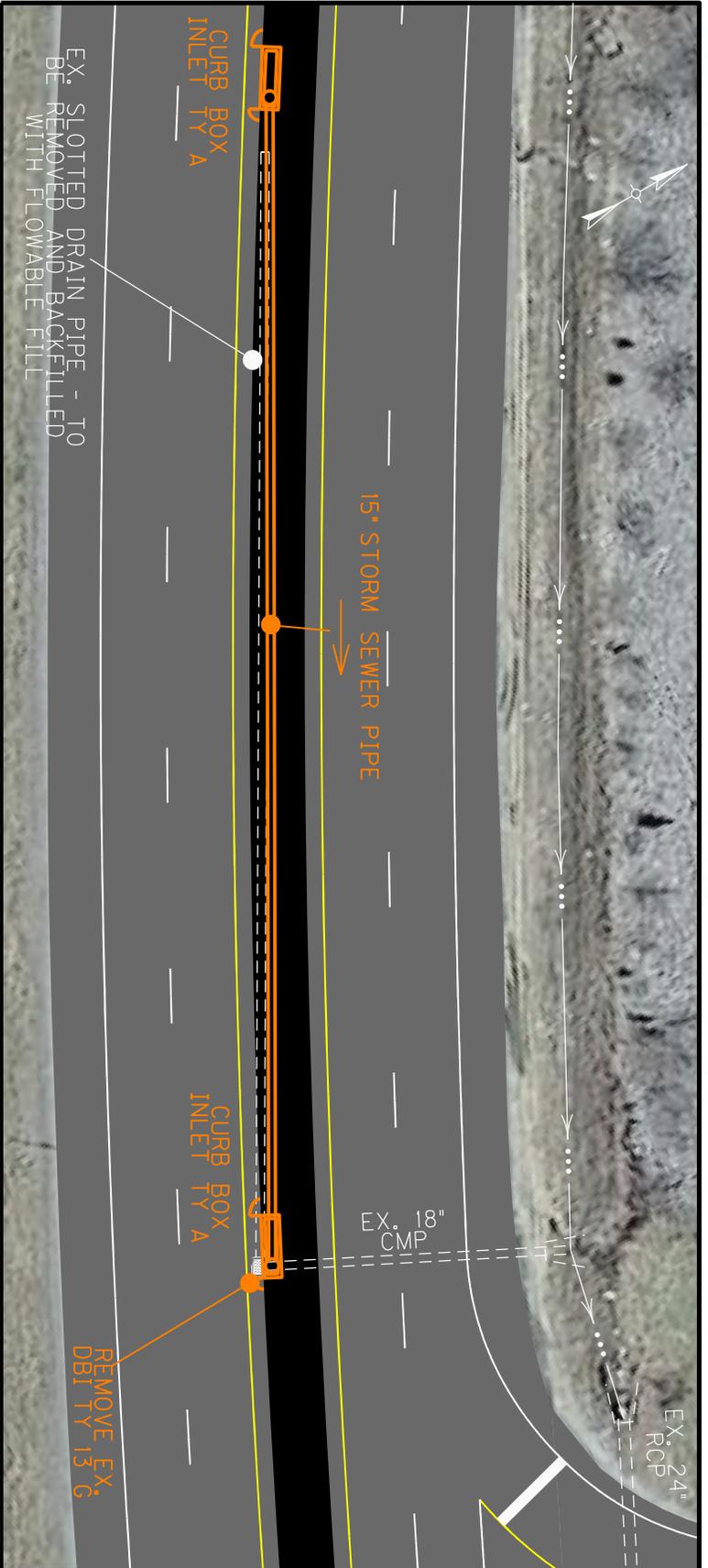


SCALE: NTS

KY 9 MP 16.538  
© KY 1998 & GLORIA TERRELL DR  
TYPICALS

# MEDIAN DRAINAGE DETAIL

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10



NOTES

- ① REFER TO PIPE DRAINAGE SHEETS FOR ADDITIONAL DRAINAGE DETAILS, SUCH AS PROPOSED PIPE SLOPES, CURB BOX INLET DEPTHS, ETC.
- ② REFER TO PIPE DRAINAGE SUMMARY FOR APPROXIMATE BID ITEM QUANTITIES AND APPROXIMATE STATIONS/OFFSETS OF PROPOSED DRAINAGE FEATURES. FINAL LOCATIONS AND QUANTITIES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- ③ ALL QUANTITIES FROM THE PIPE DRAINAGE SUMMARY ARE CARRIED OVER TO THE GENERAL SUMMARY.
- ④ WARNING: MEDIAN UNDERDRAIN IS PRESENT. IF MEDIAN UNDERDRAIN IS DISTURBED, CONSTRUCT NEW UNDERDRAIN AS DIRECTED BY ENGINEER. A QUANTITY OF PERFORATED PIPE, CRUSHED AGGREGATE SIZE NO 57, GEOTEXTILE FABRIC, AND CORE HOLE INTO DRAINAGE BOX HAS BEEN INCLUDED AT THESE LOCATIONS IN CASE THIS SCENARIO IS ENCOUNTERED DURING CONSTRUCTION. SEE DRAINAGE SUMMARY.

SCALE: NTS

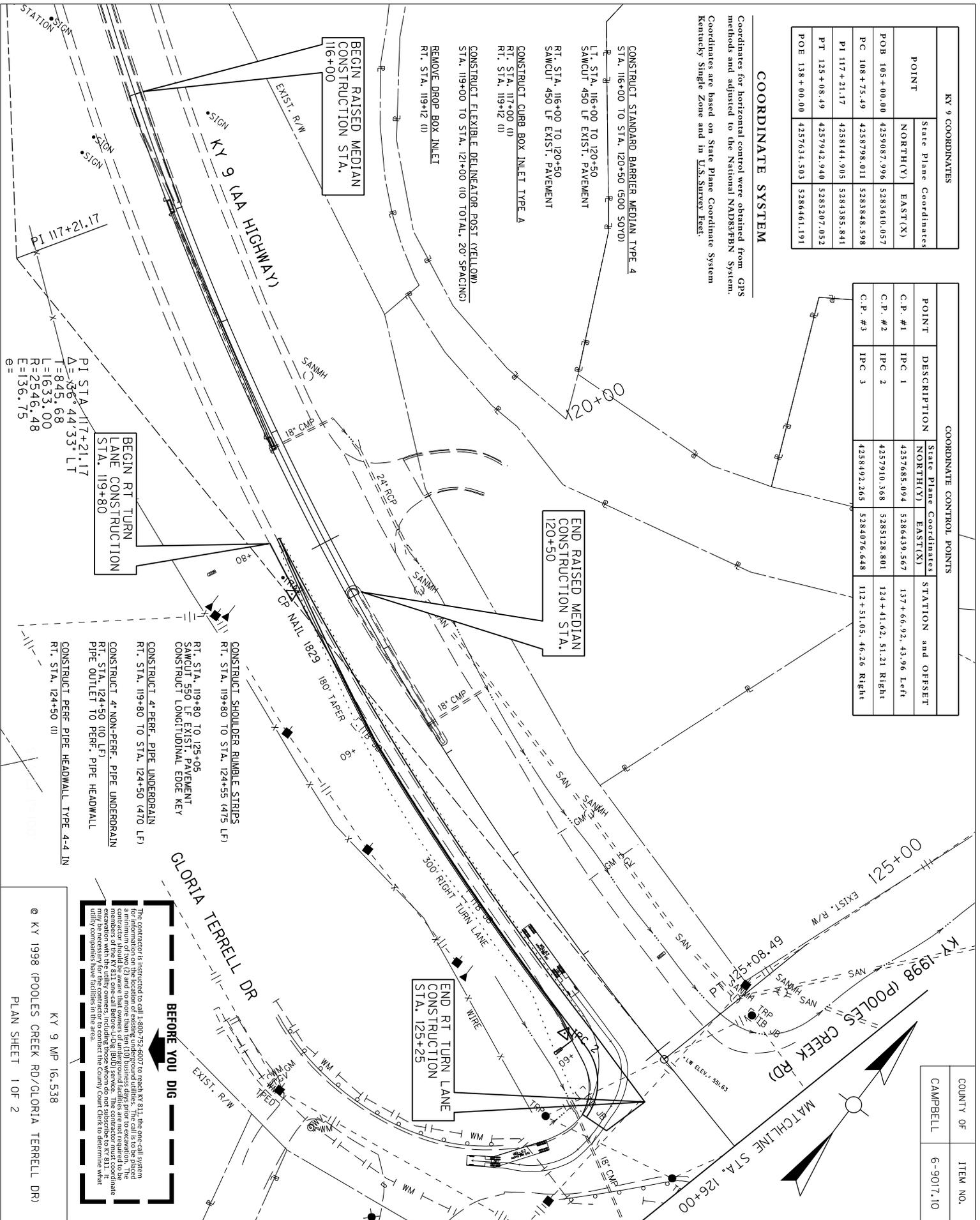
KY 9 MP 16.538  
© KY 1998 & GLORIA TERRELL DR  
MEDIAN DRAINAGE DETAIL

KY 9 COORDINATES			
POINT	State Plane Coordinates		
	NORTH(Y)	EAST(X)	
POB 105+00.00	4259087.996	5283610.057	
P.C. 108+75.49	4258798.014	5283848.598	
P1 117+21.17	4258144.905	5284385.841	
P.T. 125+08.49	4257942.940	5285207.052	
POE 138+00.00	4257634.503	5286461.191	

**COORDINATE SYSTEM**

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System. Coordinates are based on State Plane Coordinate System Kentucky Single Zone and in U.S. Survey Feet.

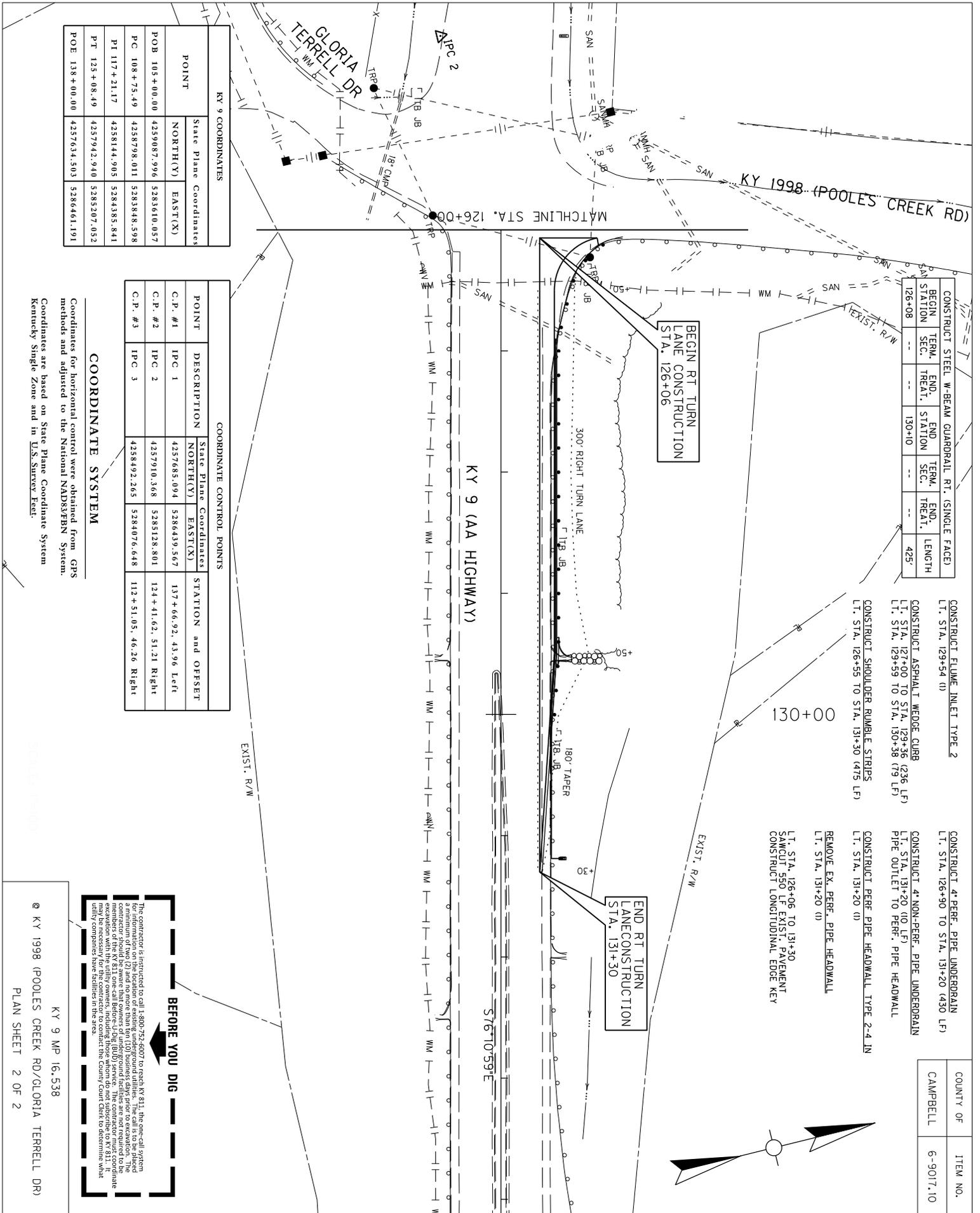
COORDINATE CONTROL POINTS			
POINT	DESCRIPTION	State Plane Coordinates	STATION and OFFSET
		NORTH(Y)	EAST(X)
C.P. #1	IPC 1	4257685.094	5286439.567 137+66.92, 43.96 Left
C.P. #2	IPC 2	4257910.368	5283128.801 124+41.62, 51.21 Right
C.P. #3	IPC 3	4258492.265	5284076.648 112+51.05, 46.26 Right



**BEFORE YOU DIG**

The contractor is instructed to call 1-800-552-8087 to reach KY 811, the one-call system that provides information on the location of underground utilities. The contractor should be aware that owners of underground facilities are not required to be excavated with the utility owners, including those who do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility lines are present in the project area.

KY 9 MP 16.538  
© KY 1998 (POOLES CREEK RD/GLORIA TERRELL DR)  
PLAN SHEET 1 OF 2



BEGIN STATION	TERM. SEC.	END STATION	TERM. SEC.	END TREAT.	LENGTH
126+08	--	130+10	--	--	425'

CONSTRUCT FLUME INLET TYPE 2  
L.T. STA. 129+54 (0)

CONSTRUCT ASPHALT WEDGE CURB  
L.T. STA. 127+00 TO STA. 129+36 (236 LF)  
L.T. STA. 129+59 TO STA. 130+38 (79 LF)

CONSTRUCT SHOULDER RUMBLE STRIPS  
L.T. STA. 126+55 TO STA. 131+30 (475 LF)

CONSTRUCT 4" PERF. PIPE UNDERDRAIN  
L.T. STA. 126+90 TO STA. 131+20 (430 LF)

CONSTRUCT 4" NON-PERF. PIPE UNDERDRAIN  
L.T. STA. 131+20 (0 LF)

PIPE OUTLET TO PERF. PIPE HEADWALL  
L.T. STA. 131+20 (0)

CONSTRUCT PERF. PIPE HEADWALL TYPE 2-4 1/2 IN  
L.T. STA. 131+20 (0)

REMOVE EX. PERF. PIPE HEADWALL  
L.T. STA. 131+20 (0)

L.T. STA. 126+06 TO 131+30  
SAWCUT 550 LF EXIST. PAVEMENT  
CONSTRUCT LONGITUDINAL EDGE KEY

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

**KY 9 COORDINATES**

POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POB 103+00.00	4259087.996	5288610.057
P.C. 108+75.49	4258798.011	5288848.598
PI 117+21.17	4258144.905	5288385.841
P.T. 125+08.49	4257942.940	5288207.052
P.O.E. 138+00.00	4257634.503	5288661.191

**COORDINATE CONTROL POINTS**

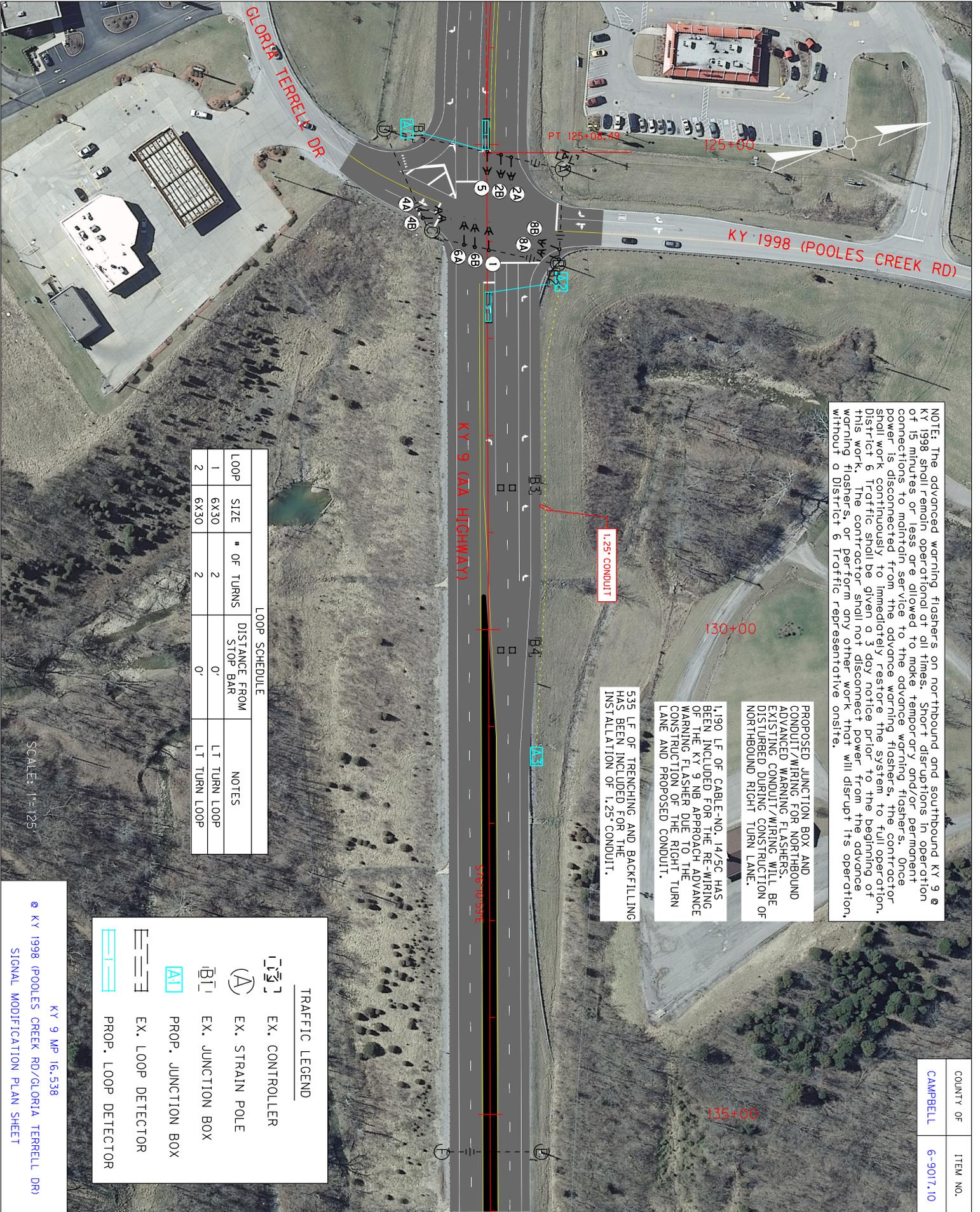
POINT	DESCRIPTION	State Plane Coordinates		STATION and OFFSET
		NORTH(Y)	EAST(X)	
C.P. #1	IPC 1	4257685.094	5286439.567	137+66.92, 43.96 Left
C.P. #2	IPC 2	4257910.368	5288128.801	124+41.62, 51.21 Right
C.P. #3	IPC 3	4258492.265	52884076.648	112+51.05, 46.26 Right

**COORDINATE SYSTEM**

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System. Coordinates are based on State Plane Coordinate System Kentucky Single Zone and in U.S. Survey Feet.

**BEFORE YOU DIG**

The contractor is instructed to call 1-800-552-8007 to reach KY 811, the one-call system that provides information on the location of underground utilities. The contractor should be aware that owners of underground facilities are not required to be excavated within a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that utility owners who do not subscribe to KY 811, it may be necessary for the contractor to contact the County Court Clerk to determine what utility lines are present in the project area.



NOTE: The advanced warning flashers on northbound and southbound KY 9 @ KY 1998 shall remain operational at all times. Short disruptions in operation of 15 minutes or less are allowed to make temporary on/d/or permanent connections to maintain service to the advance warning flashers. Once power is disconnected from the advance warning flashers, the contractor shall work continuously to immediately restore the system to full operation. District 6 Traffic shall be given a 3 day notice prior to the beginning of this work. The contractor shall not disconnect power from the advance warning flashers, or perform any other work that will disrupt its operation, without a District 6 Traffic representative onsite.

PROPOSED JUNCTION BOX AND CONDUIT/WIRING FOR NORTHBOUND ADVANCED WARNING FLASHERS. EXISTING CONDUIT/WIRING WILL BE DISTURBED DURING CONSTRUCTION OF NORTHBOUND RIGHT TURN LANE.

1190 LF OF CABLE-NO. 14/5C HAS BEEN INCLUDED FOR THE RE-WIRING OF THE KY 9 NB APPROACH ADVANCE WARNING FLASHER DUE TO THE CONSTRUCTION OF THE RIGHT TURN LANE AND PROPOSED CONDUIT.

535 LF OF TRENCHING AND BACKFILLING HAS BEEN INCLUDED FOR THE INSTALLATION OF 1.25" CONDUIT.

LOOP SCHEDULE			
LOOP	SIZE	# OF TURNS	DISTANCE FROM STOP BAR
1	6X30	2	0'
2	6X30	2	0'

NOTES
LT TURN LOOP
LT TURN LOOP

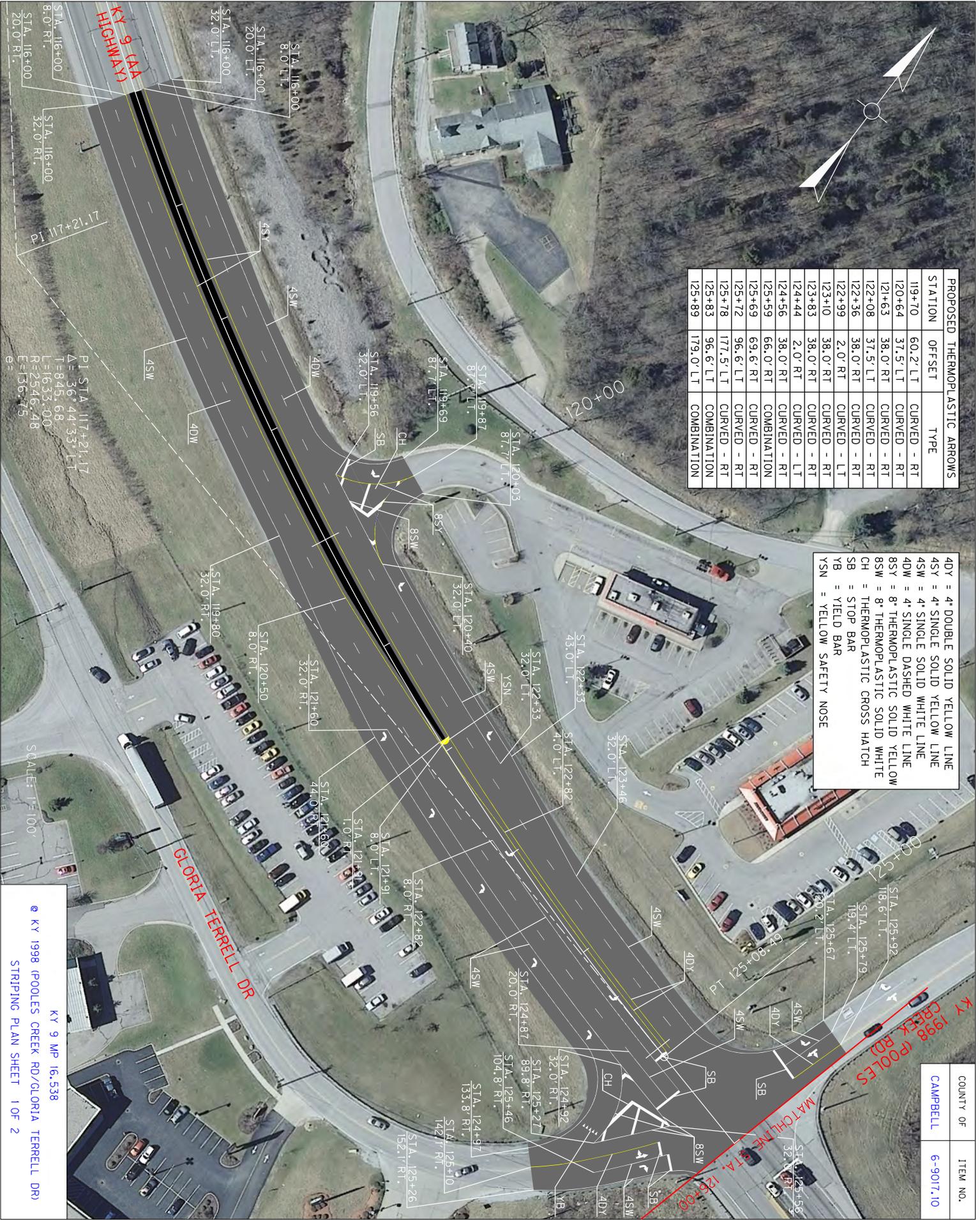
TRAFFIC LEGEND	
	EX. CONTROLLER
	EX. STRAIN POLE
	EX. JUNCTION BOX
	PROP. JUNCTION BOX
	EX. LOOP DETECTOR
	PROP. LOOP DETECTOR

SCALE: 1"=125'

KY 9 MP 16.538  
KY 1998 (POOLES CREEK RD/GLORIA TERRELL DR)  
SIGNAL MODIFICATION PLAN SHEET

COUNTY OF  
**CAMPBELL**

ITEM NO.  
**6-9017.10**



STATION	OFFSET	TYPE
119+70	60.2' LT	CURVED - RT
120+64	37.5' LT	CURVED - RT
121+63	38.0' RT	CURVED - RT
122+08	37.5' LT	CURVED - RT
122+36	38.0' RT	CURVED - RT
122+99	2.0' RT	CURVED - LT
123+10	38.0' RT	CURVED - RT
123+83	38.0' RT	CURVED - RT
124+44	2.0' RT	CURVED - LT
124+56	38.0' RT	CURVED - RT
125+59	66.0' RT	COMBINATION
125+69	69.6' RT	CURVED - RT
125+72	96.6' LT	CURVED - RT
125+78	177.5' LT	CURVED - RT
125+83	96.6' LT	COMBINATION
125+89	179.0' LT	COMBINATION

4DY = 4" DOUBLE SOLID YELLOW LINE  
 4SY = 4" SINGLE SOLID YELLOW LINE  
 4SW = 4" SINGLE SOLID WHITE LINE  
 4DW = 4" SINGLE DASHED WHITE LINE  
 8SY = 8" THERMOPLASTIC SOLID YELLOW  
 8SW = 8" THERMOPLASTIC SOLID WHITE  
 CH = THERMOPLASTIC CROSS HATCH  
 SB = STOP BAR  
 YB = YIELD BAR  
 YSN = YELLOW SAFETY NOSE

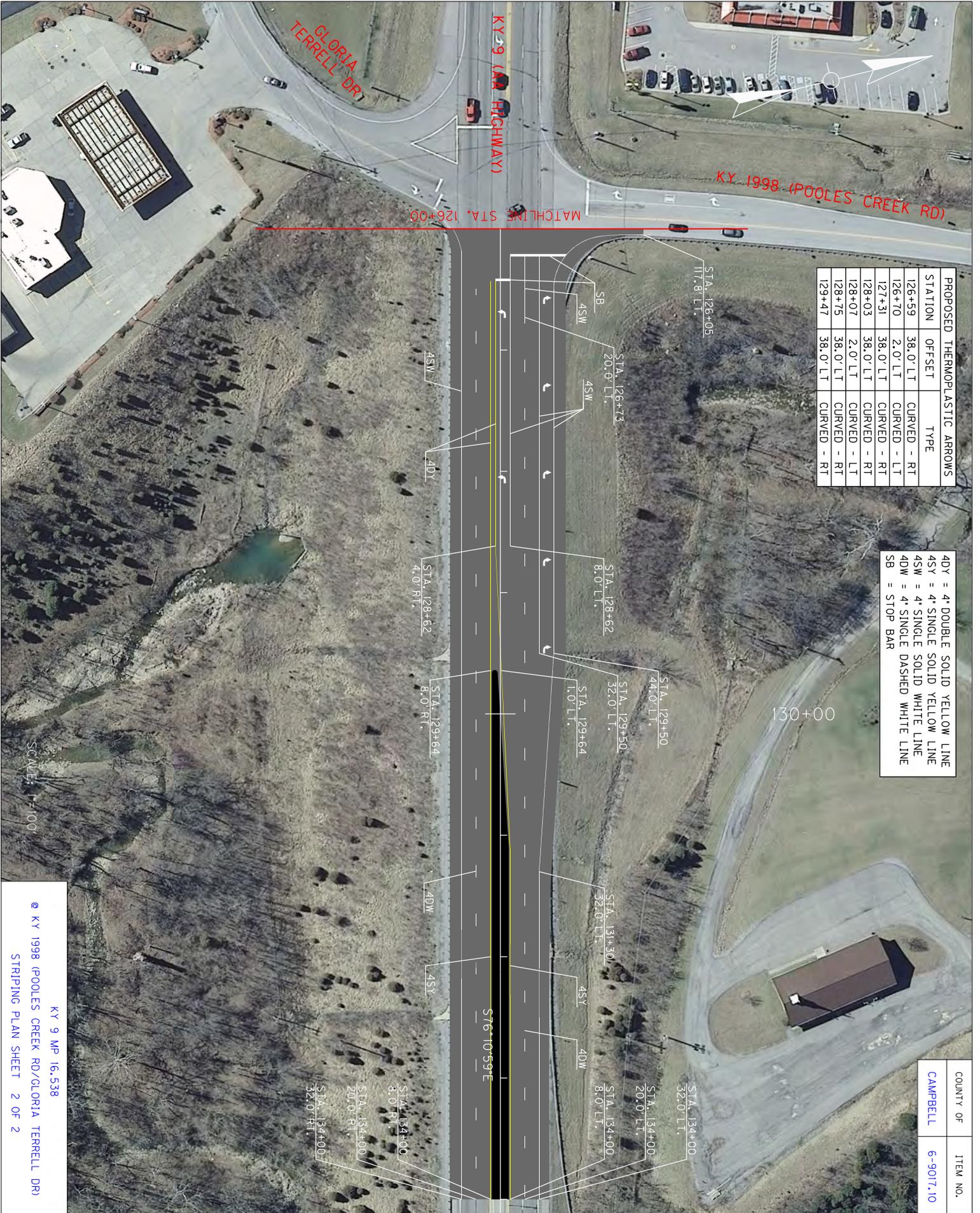
COUNTY OF  
**CAMPBELL**

ITEM NO.  
**6-9017.10**

KY 9 MP 16.538  
 KY 1998 (POOLES CREEK RD/OLORIA TERRELL DR)  
 STRIPING PLAN SHEET 1 OF 2

SCALE: 1"=100'

PI STA. 117+21.17  
 Δ = 36° 44' 33" LT  
 L = 845.68  
 R = 2546.48  
 E = 136.75  
 6 =



STATION	OFFSET	TYPE
126+59	38.0' LT	CURVED - RT
126+70	2.0' LT	CURVED - LT
127+31	38.0' LT	CURVED - RT
128+03	38.0' LT	CURVED - RT
128+07	2.0' LT	CURVED - LT
128+75	38.0' LT	CURVED - RT
129+47	38.0' LT	CURVED - RT

4DY = 4" DOUBLE SOLID YELLOW LINE  
 4SY = 4" SINGLE SOLID YELLOW LINE  
 4SW = 4" SINGLE SOLID WHITE LINE  
 4DW = 4" SINGLE DASHED WHITE LINE  
 SB = STOP BAR

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

KY 9 MP 16.538  
 KY 1998 (POOLES CREEK RD/GLORIA TERRELL DR)  
 STRIPING PLAN SHEET 2 OF 2



DND: DO NOT DISTURB  
(EXISTING SIGN TO  
REMAIN IN PLACE)

DND

PI STA. 117+21.17  
Δ = 36° 44' 33" L.T.  
L = 645.68  
L = 1633.00  
R = 2546.48  
E = 136.75

DND

REMOVE  
&  
RELOCATE  
STA.  
120+50

SHARP TURNS  
ON KY 1998  
ALTERNATE ROUTE

SCALE: 1"=100'

GLORIA TERRELL

DR

CONSTRUCTION

FORCES

BY

PRIO

TO

BE

REMOVED

BY

KYTC

BEFORE

CONSTRUCTION

REMOVE  
&  
RELOCATE  
STA.  
123+68

TRUCK ROUTE

① SIGN WILL BE INSTALLED  
USING TYPE D SURFACE  
MOUNT.

KY 9 MP 16.538

© KY 1998 (POOLES CREEK RD/GLORIA TERRELL DR)

SIGNING PLAN SHEET 1 OF 2

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10



# PIPE DRAINAGE SHEET 1 of 3

COUNTY OF  
**CAMPBELL**  
ITEM NO.  
**6-9017.10**

## STORM SEWER PIPE

CURB BOX  
INLET TYPE A

L I N E A R F E E T										EACH	
15'											1

212

NOTE: MEDIAN UNDERDRAIN IS PRESENT.  
IF MEDIAN UNDERDRAIN IS  
DISTURBED, CONSTRUCT NEW  
UNDERDRAIN AS DIRECTED BY  
ENGINEER.

CONST. 212 L.F. 15"  
STORM SEWER PIPE  
SO. = 0.75%

CONNECT TO PROPOSED  
CURB BOX INLET TYPE A  
STATION 534.33 R.I. -  
SEE PIPE DRAINAGE SHEET

A QUANTITY OF 6 LF OF PERFORATED  
PIPE - 4 IN. CRUSHED AGGREGATE SIZE  
NO 57, GEOTEXTILE FABRIC, AND CORE  
HOLE INTO DRAINAGE BOX HAS BEEN  
INCLUDED AT THIS LOCATION IN CASE  
THIS SCENARIO IS ENCOUNTERED. SEE  
DRAINAGE SUMMARY.

T+G-537.26

CONST. 1'-0" CURB BOX  
INLET  
H = 4.08'

INV. IN 533.18

EX.LL  
EX.EP

EX.LL

EX.LL

EX.LL

EX.LL  
EX.EP

EX.LL

490 500 510 520 530 540 550 560 570 580 590

-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90

117+00

SCALE: 1" = 10' HORIZONTAL  
1" = 10' VERTICAL

KY 9  
STA. 117+00  
PIPE DRAINAGE SHEET

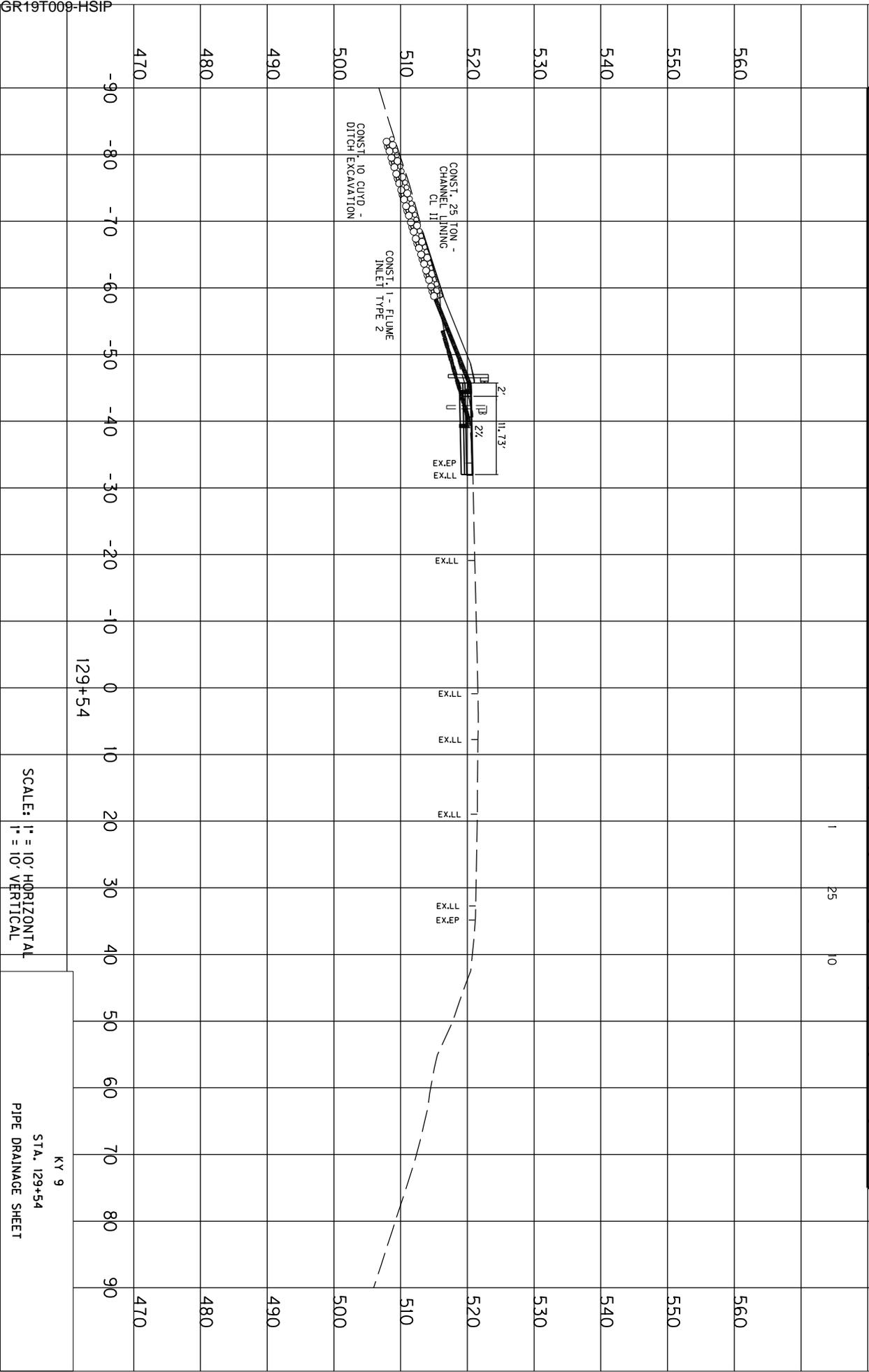


PIPE DRAINAGE SHEET 3 of 3

COUNTY OF CAMPBELL  
ITEM NO. 6-9017.10

STORM SEWER PIPE

L I N E A R F E E T										EACH	FLUME INLET TYPE 2	TON	CHANEL LINING CLASS II	CUYD	DITCH EXCAVATION
											1	25	10		

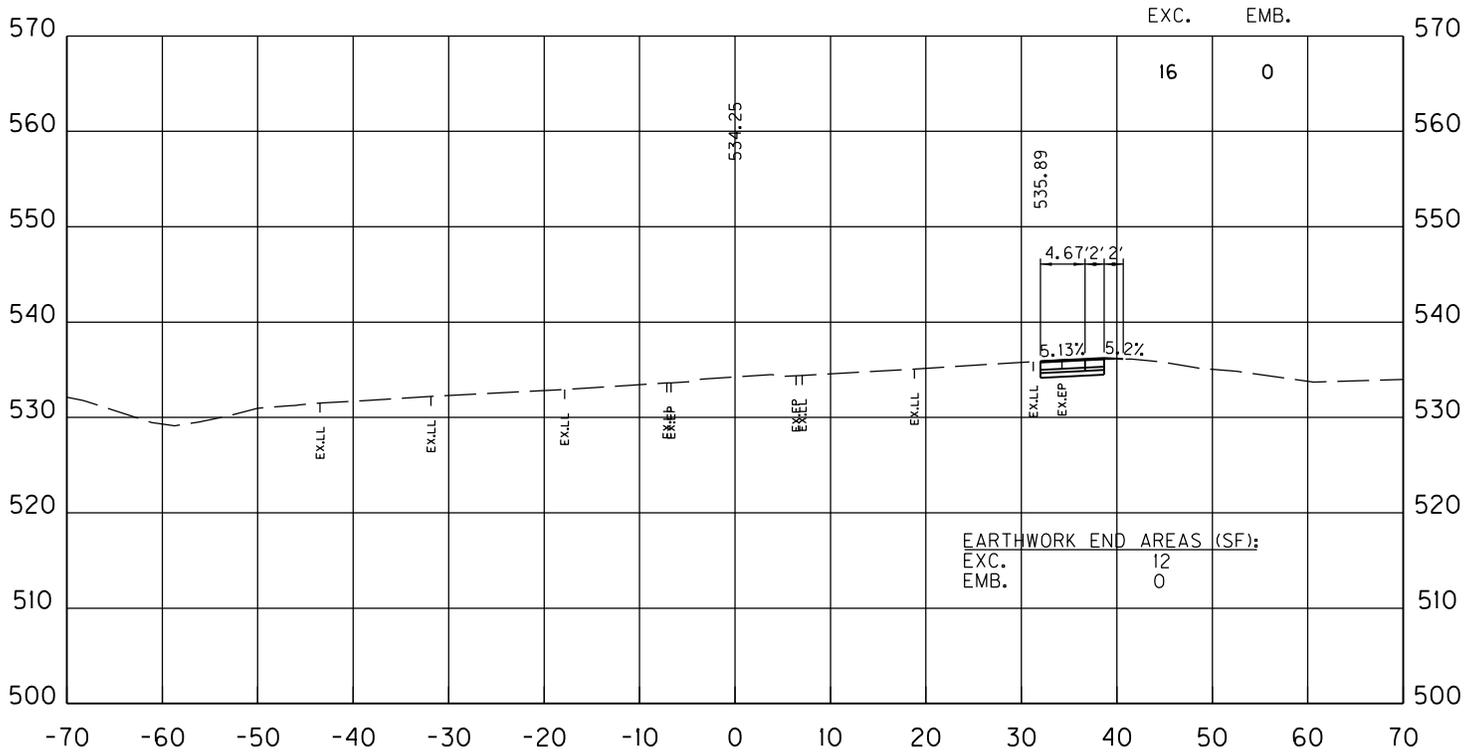


SCALE: 1" = 10' HORIZONTAL  
1" = 10' VERTICAL

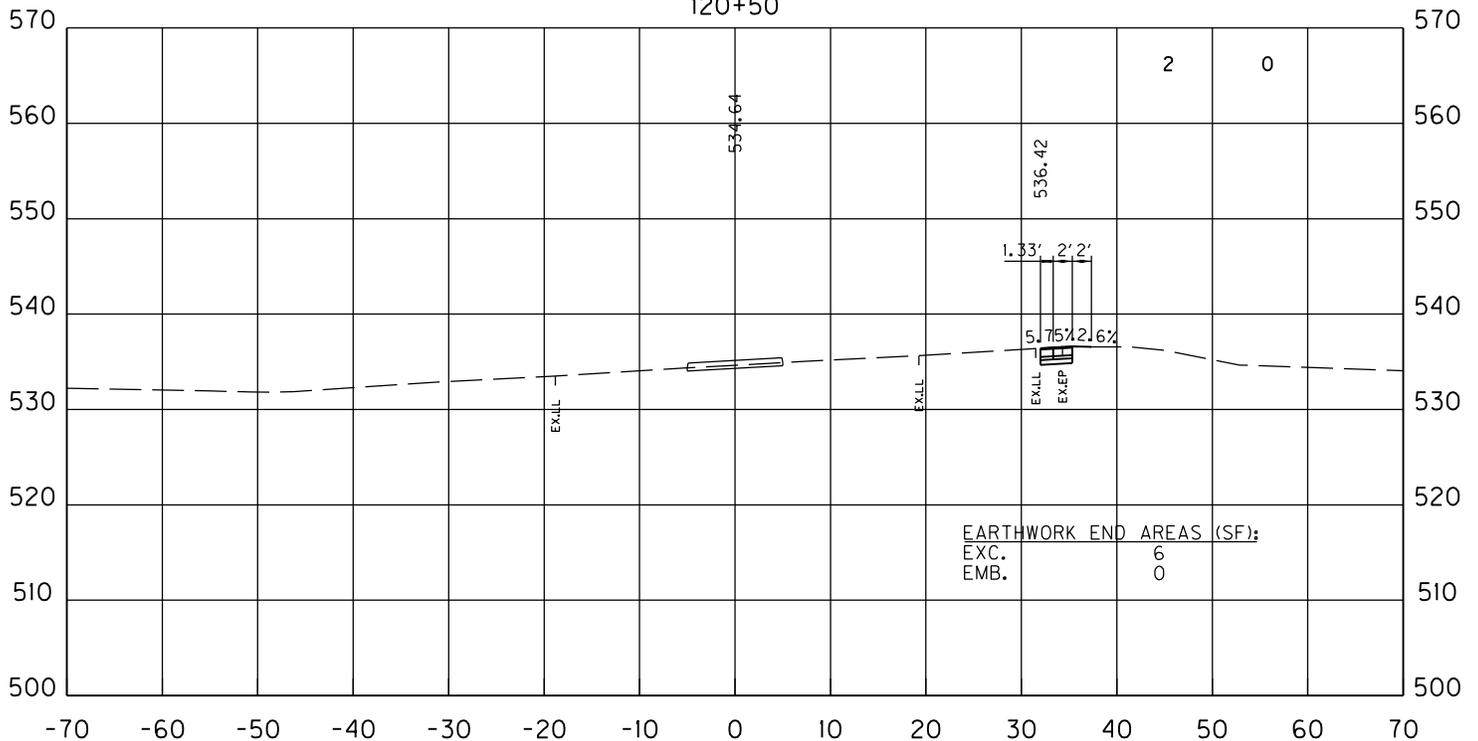
KY 9  
STA. 129+54  
PIPE DRAINAGE SHEET

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):



120+50



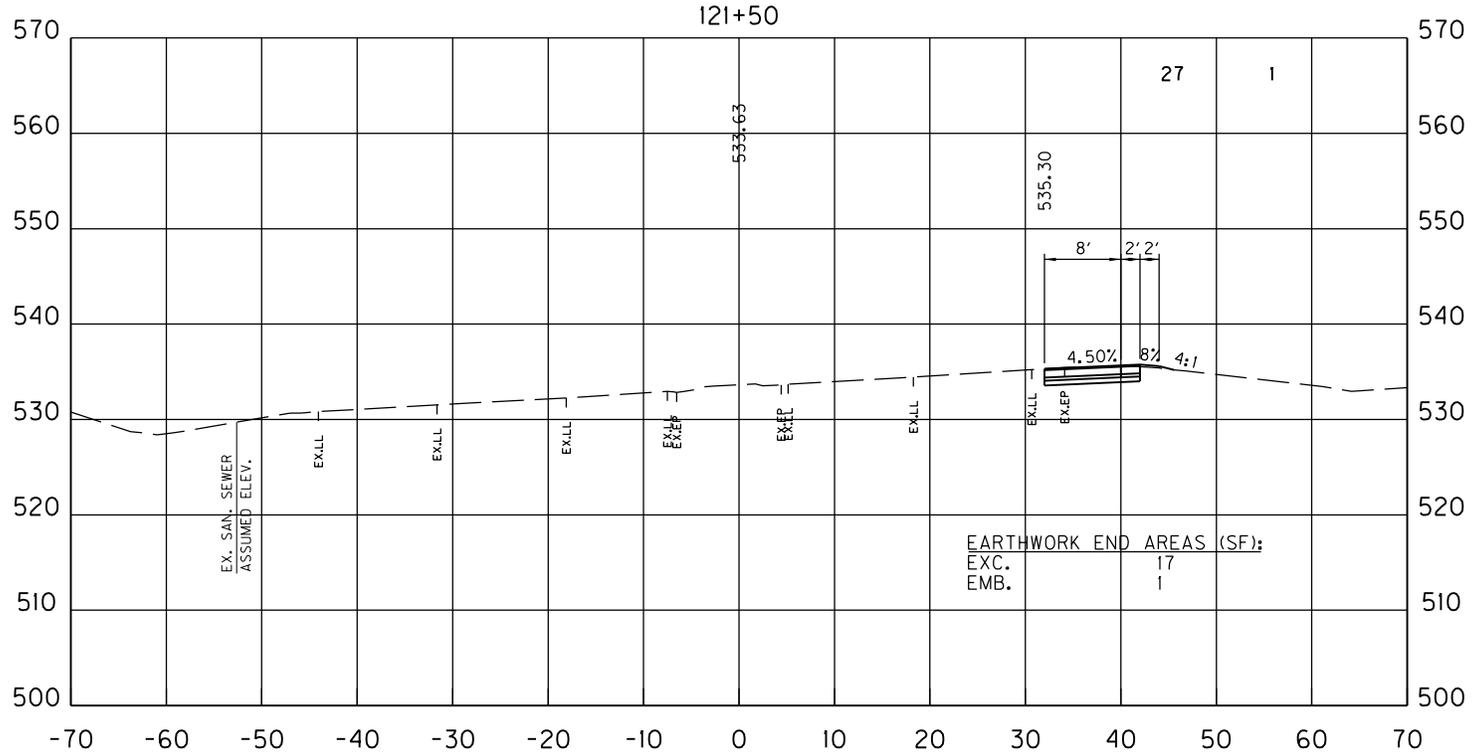
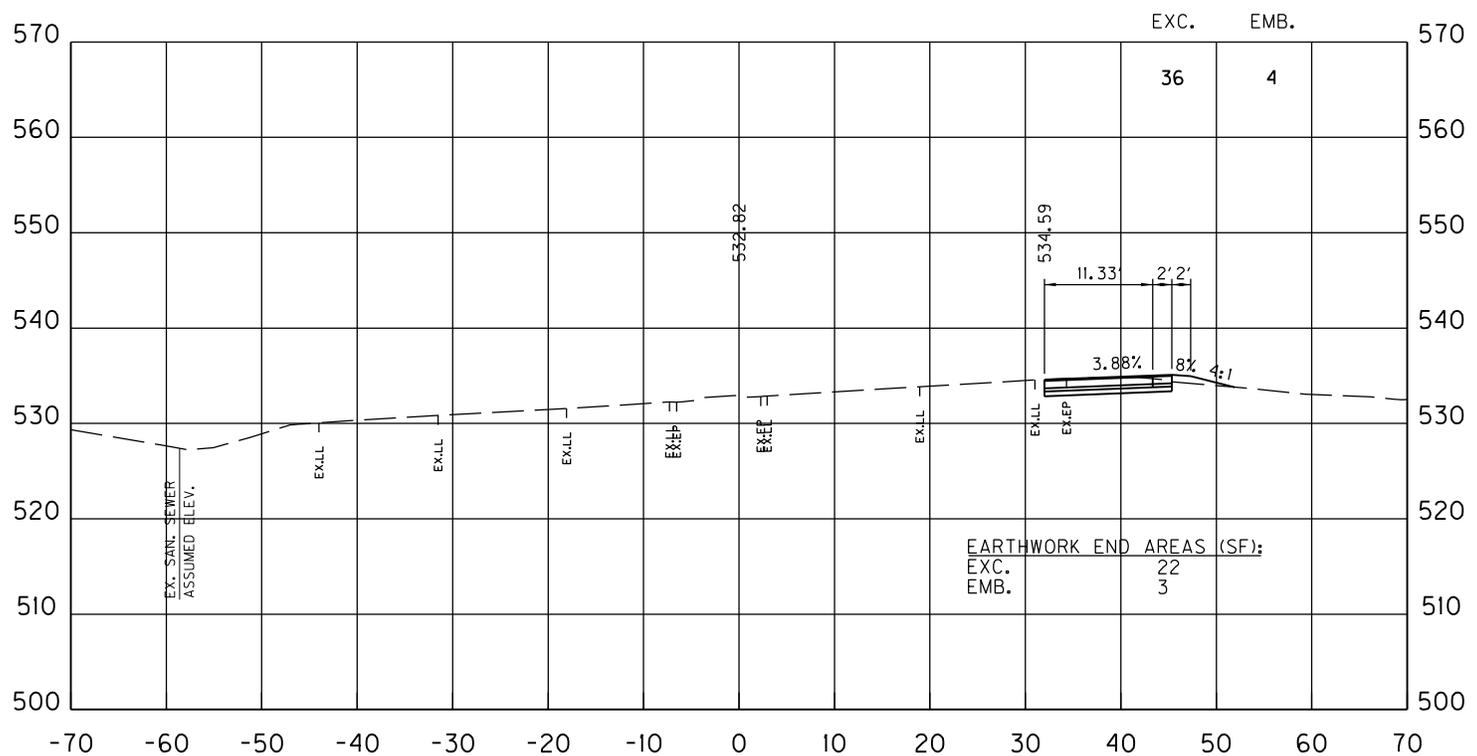
120+00

SCALE: 1" = 10' HORIZONTAL  
 1" = 10' VERTICAL

KY 9  
 STA. 120+00 TO STA. 120+80  
 CROSS SECTIONS

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):

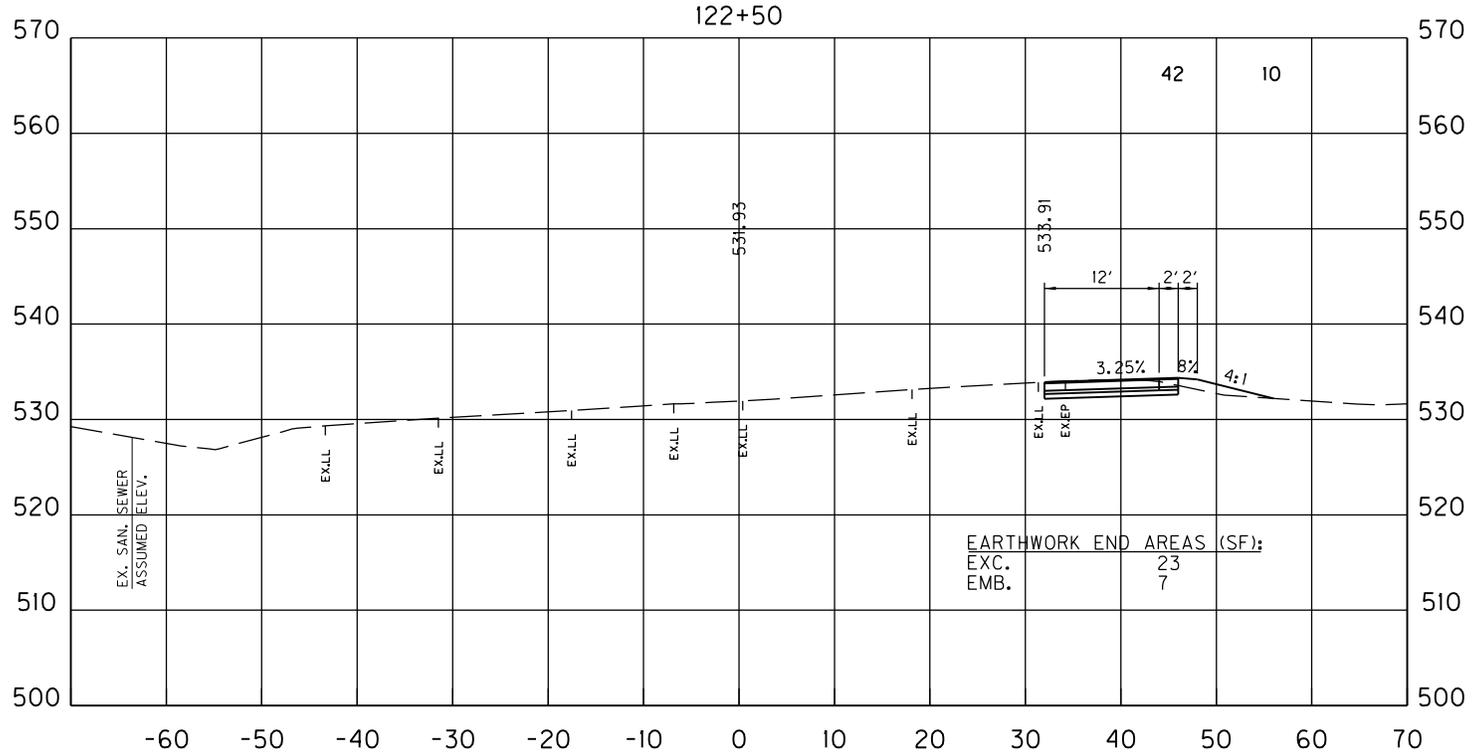
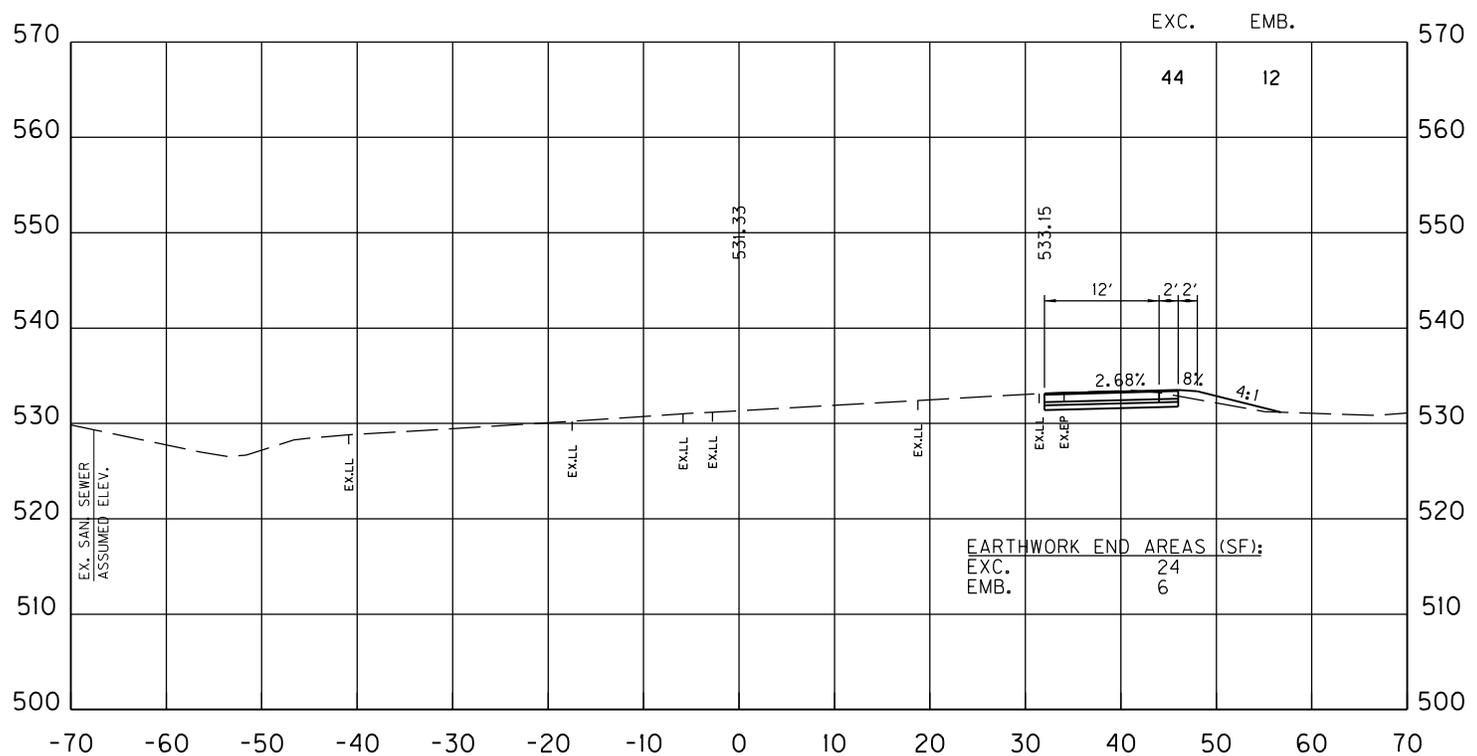


SCALE: 1" = 10' HORIZONTAL  
1" = 10' VERTICAL

KY 9  
STA. 121+00 TO STA. 121+50  
CROSS SECTIONS

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):

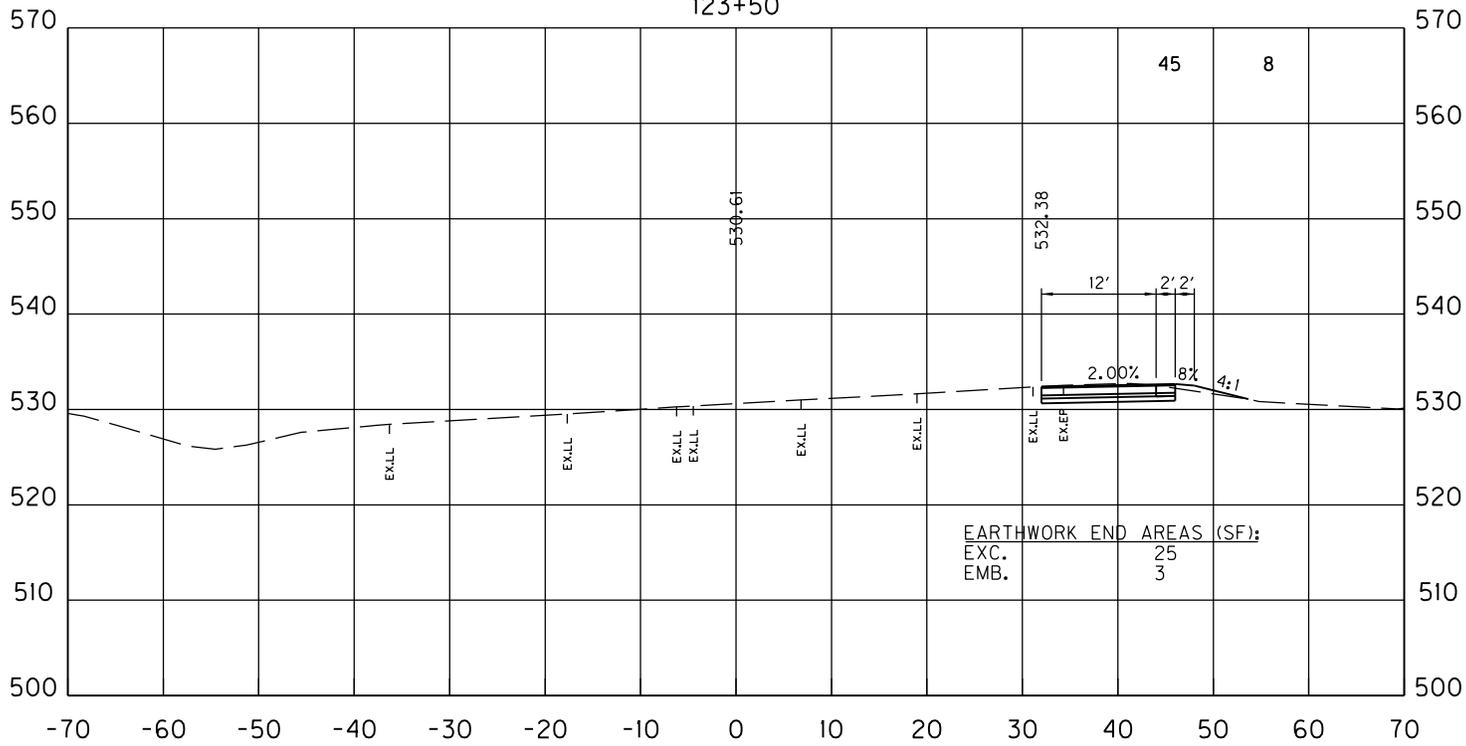
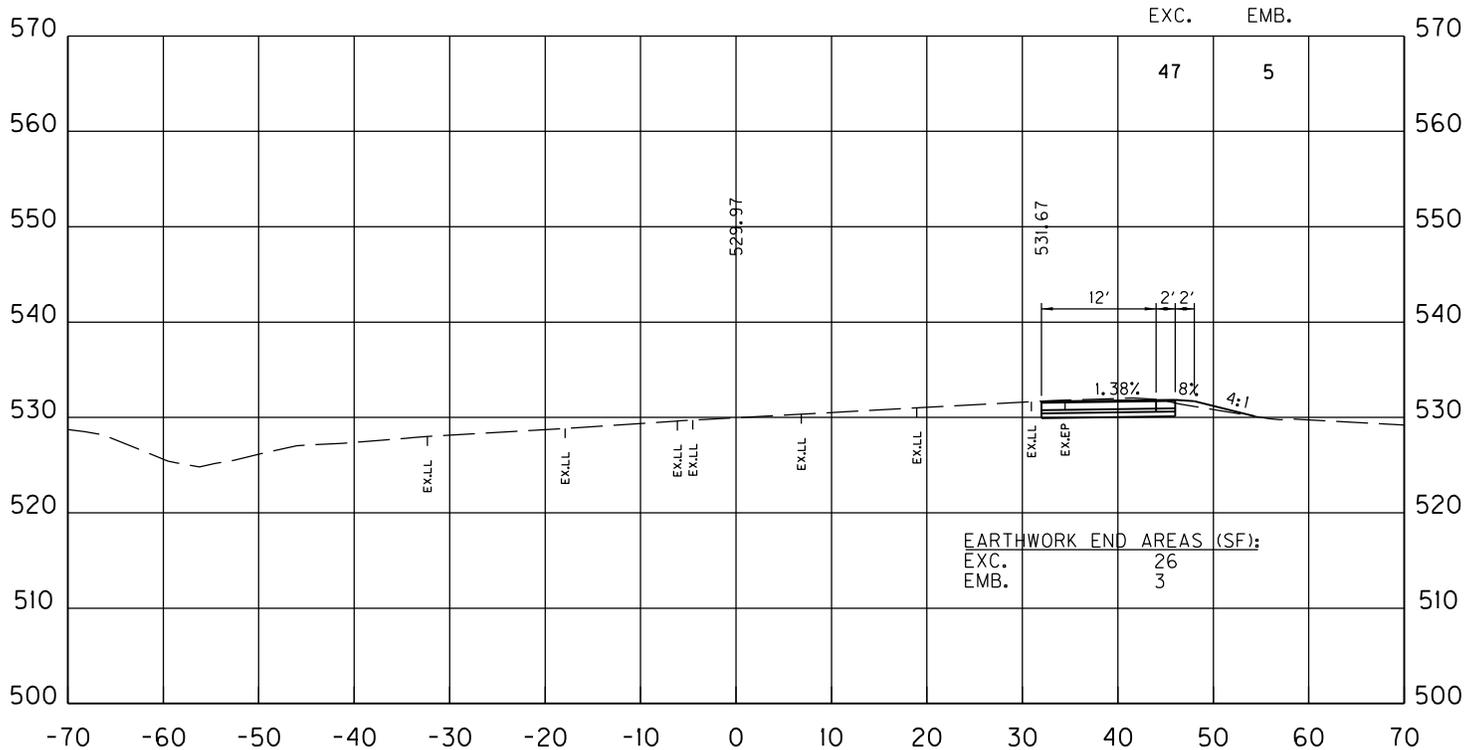


SCALE: 1" = 10' HORIZONTAL  
 1" = 10' VERTICAL

KY 9  
 STA. 122+00 TO STA. 122+50  
 CROSS SECTIONS

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):

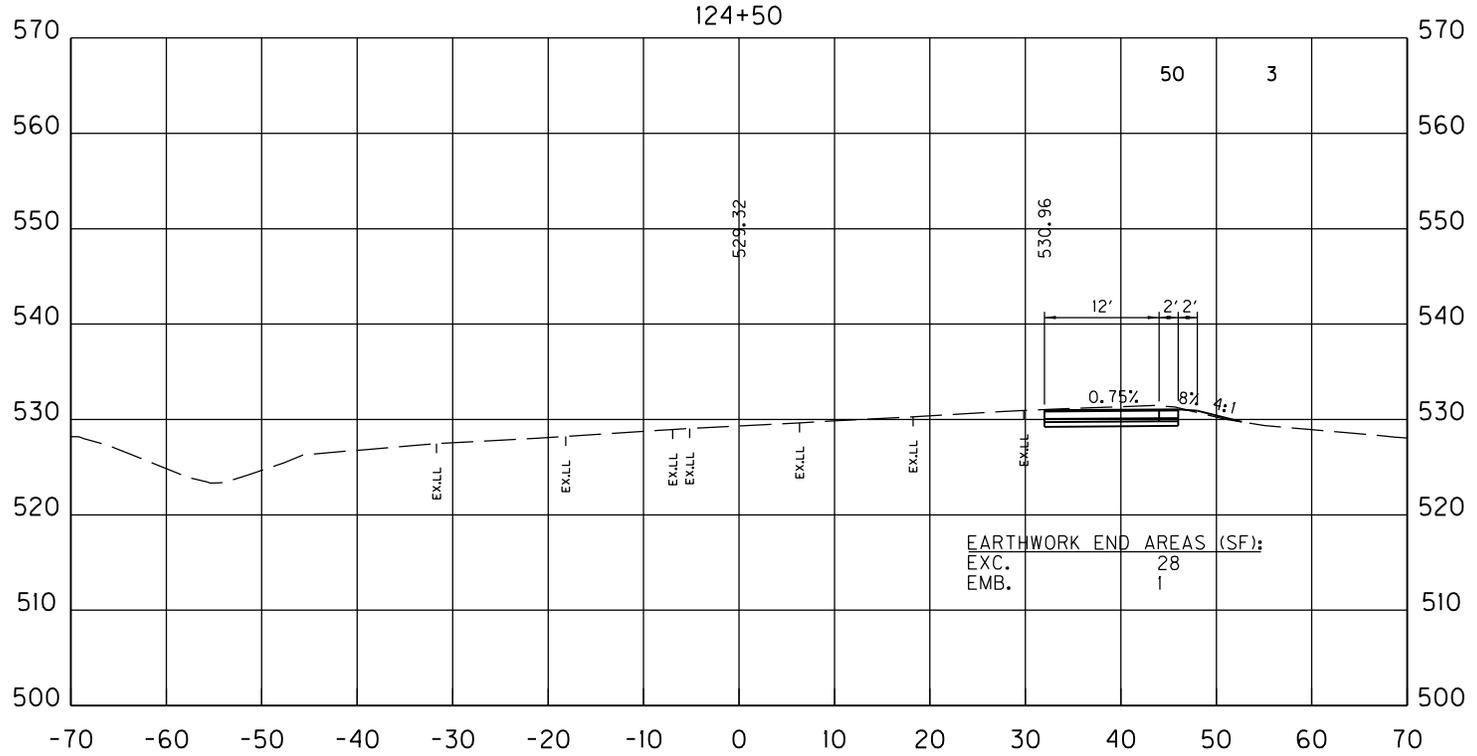
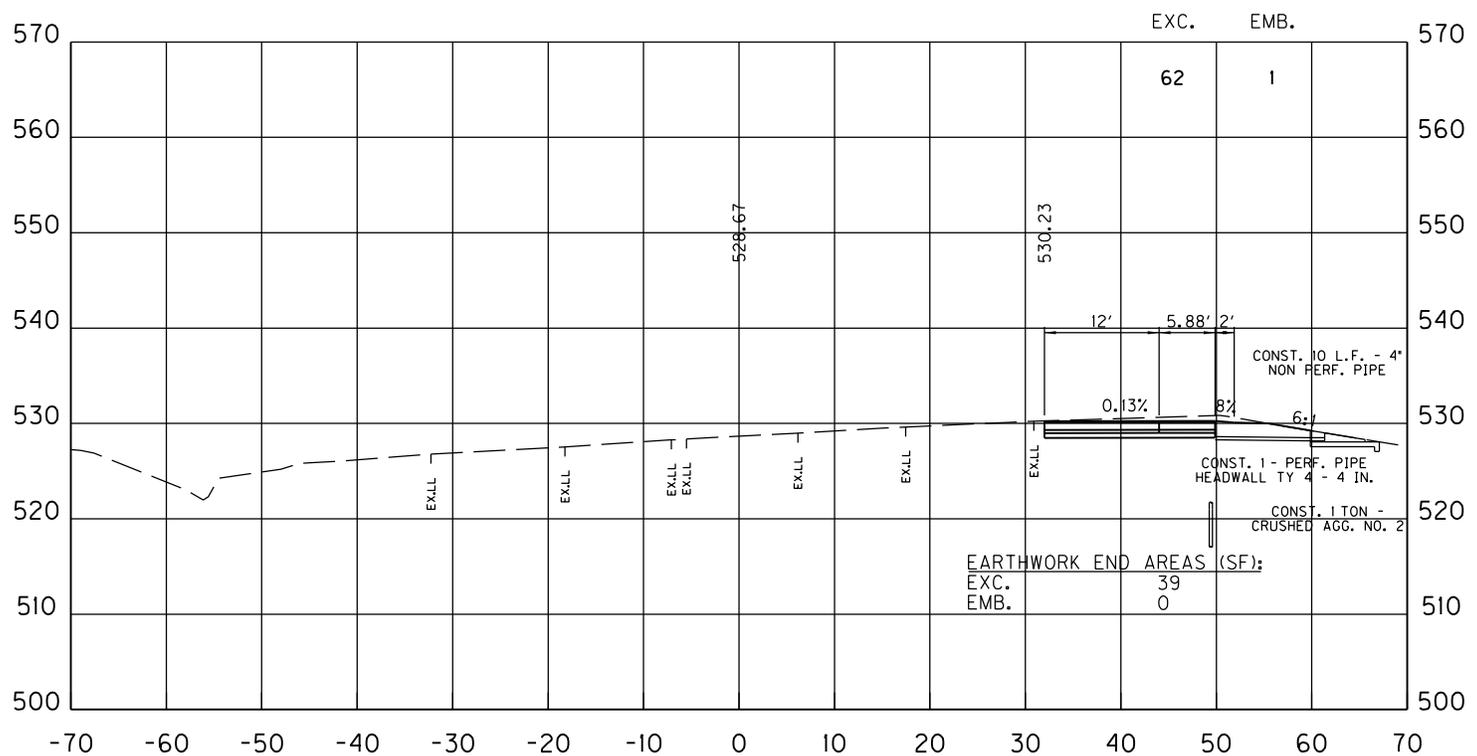


SCALE: 1" = 10' HORIZONTAL  
1" = 10' VERTICAL

KY 9  
STA. 123+00 TO STA. 123+50  
CROSS SECTIONS

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):



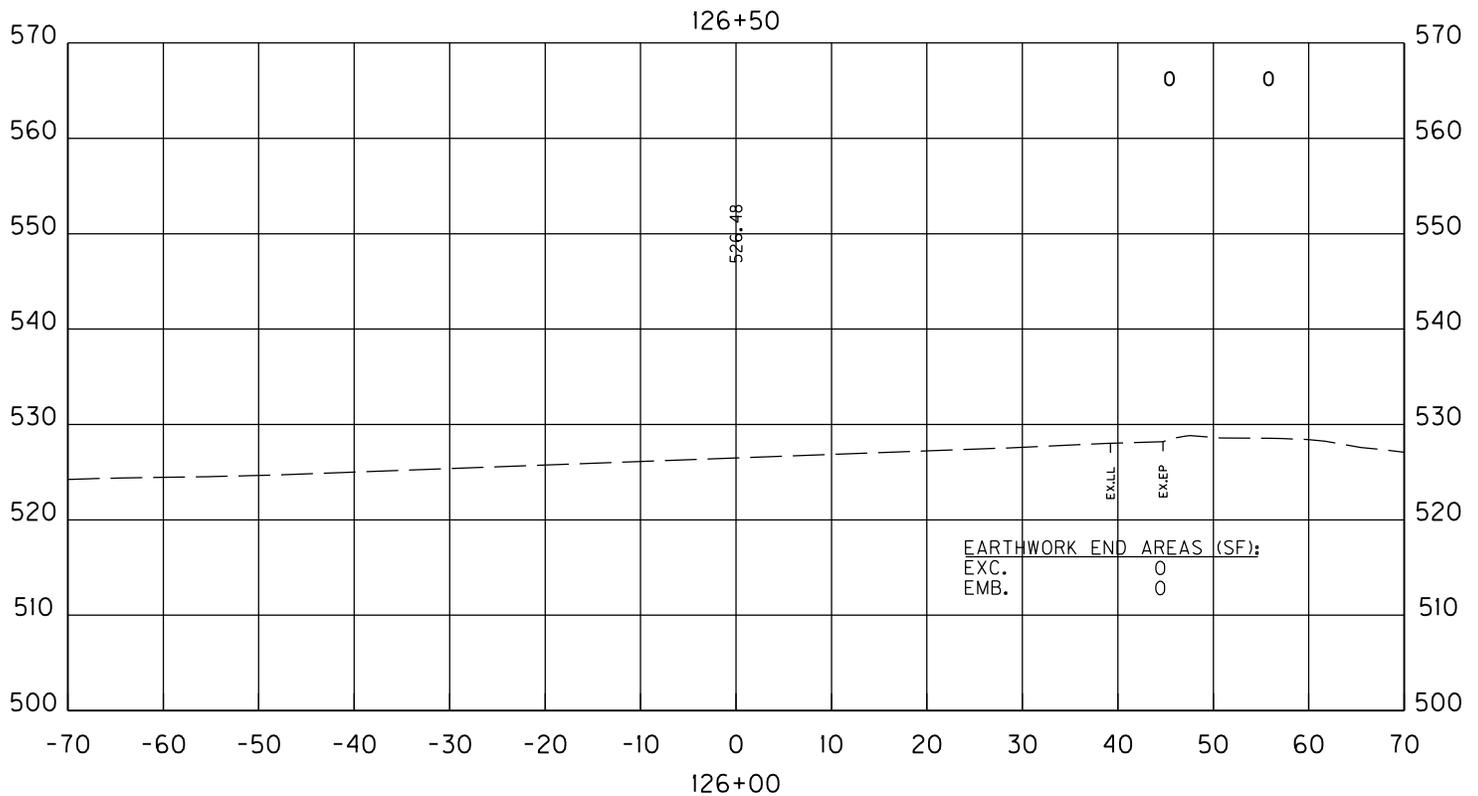
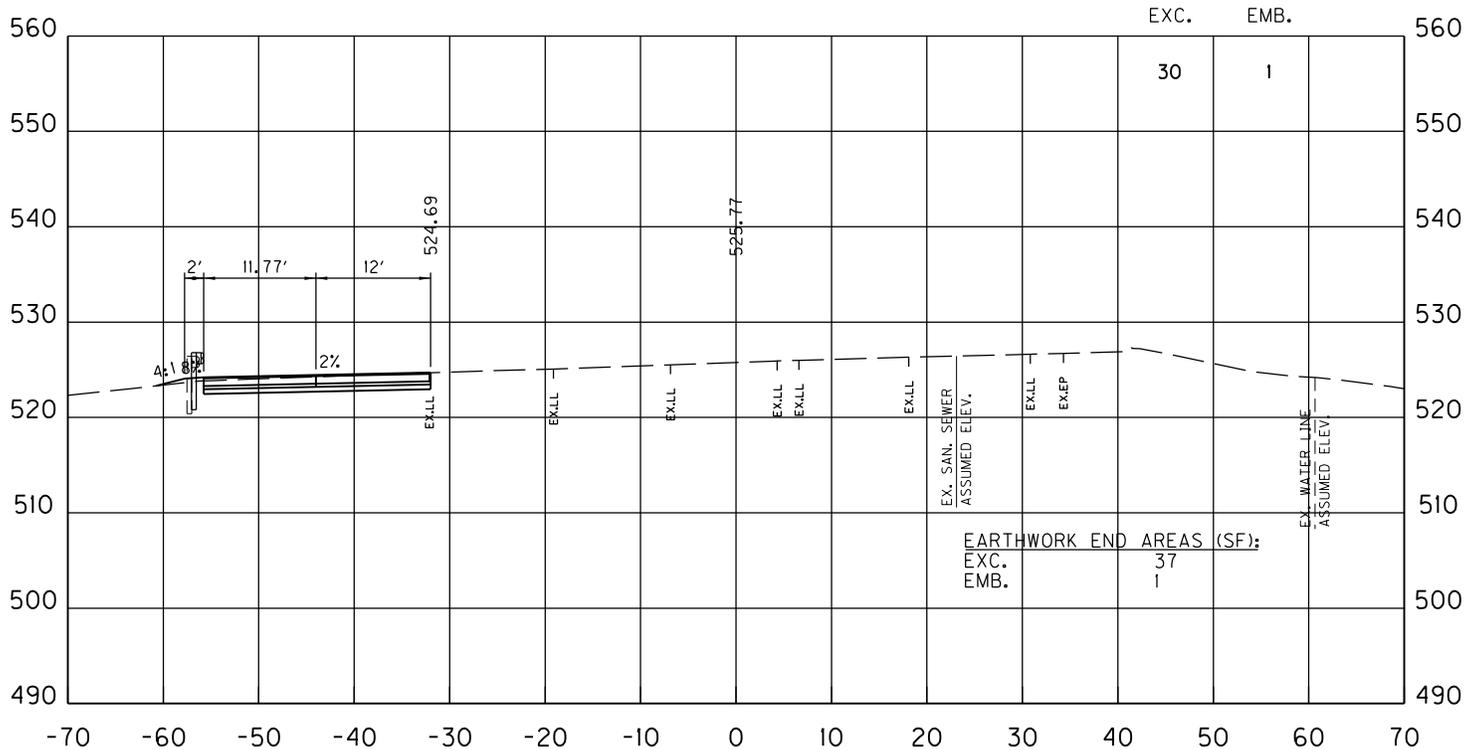
SCALE: 1" = 10' HORIZONTAL  
1" = 10' VERTICAL

KY 9  
STA. 124+00 TO STA. 124+50  
CROSS SECTIONS



COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):

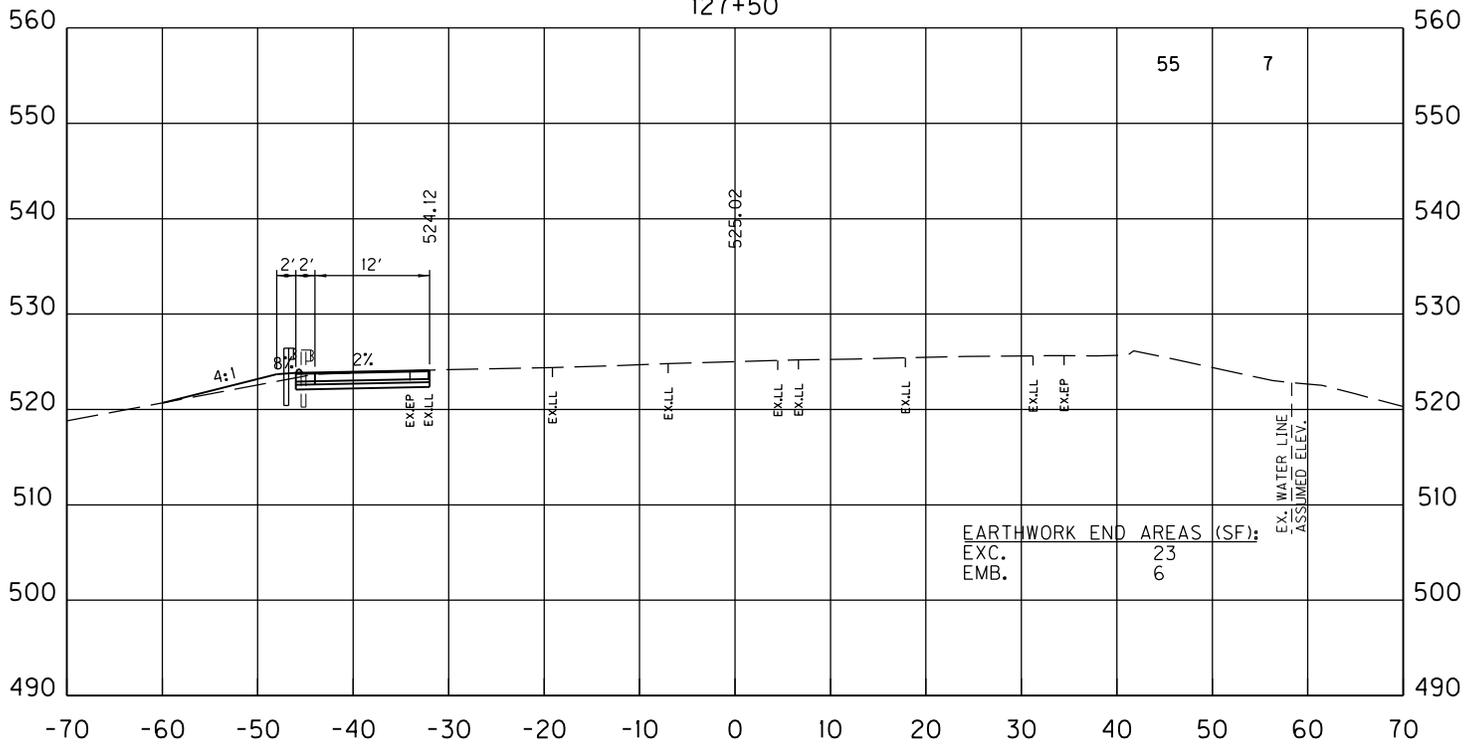
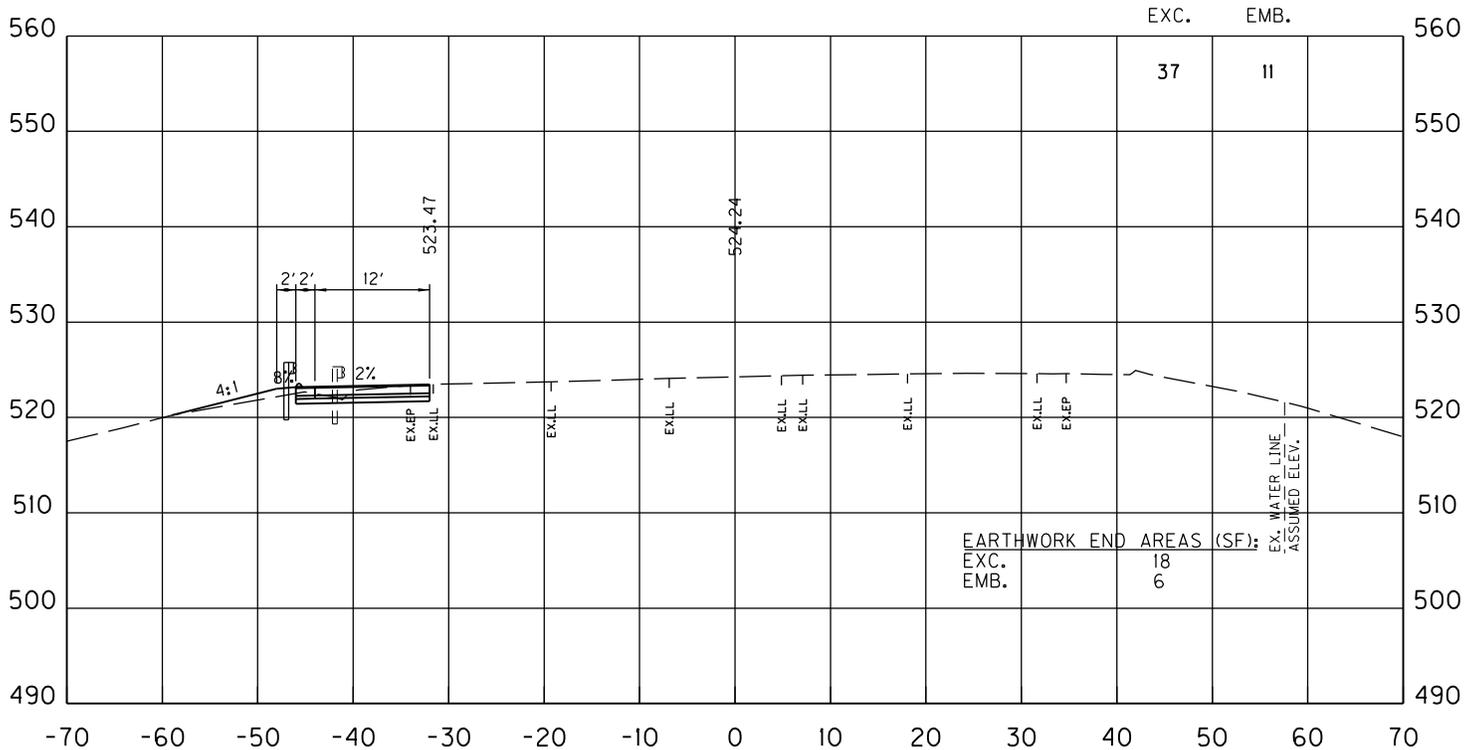


SCALE: 1" = 10' HORIZONTAL  
1" = 10' VERTICAL

KY 9  
STA. 126+00 TO STA. 126+80  
CROSS SECTIONS

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):

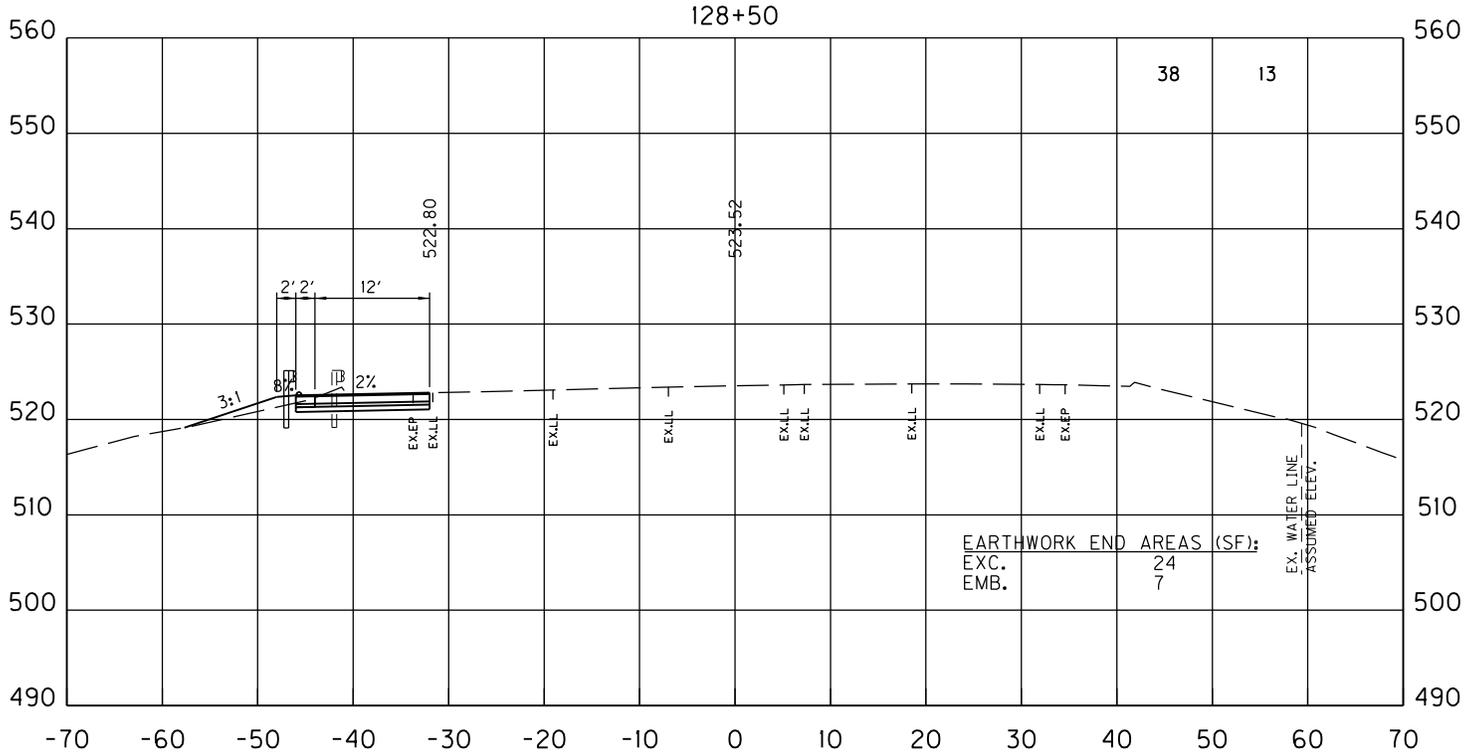
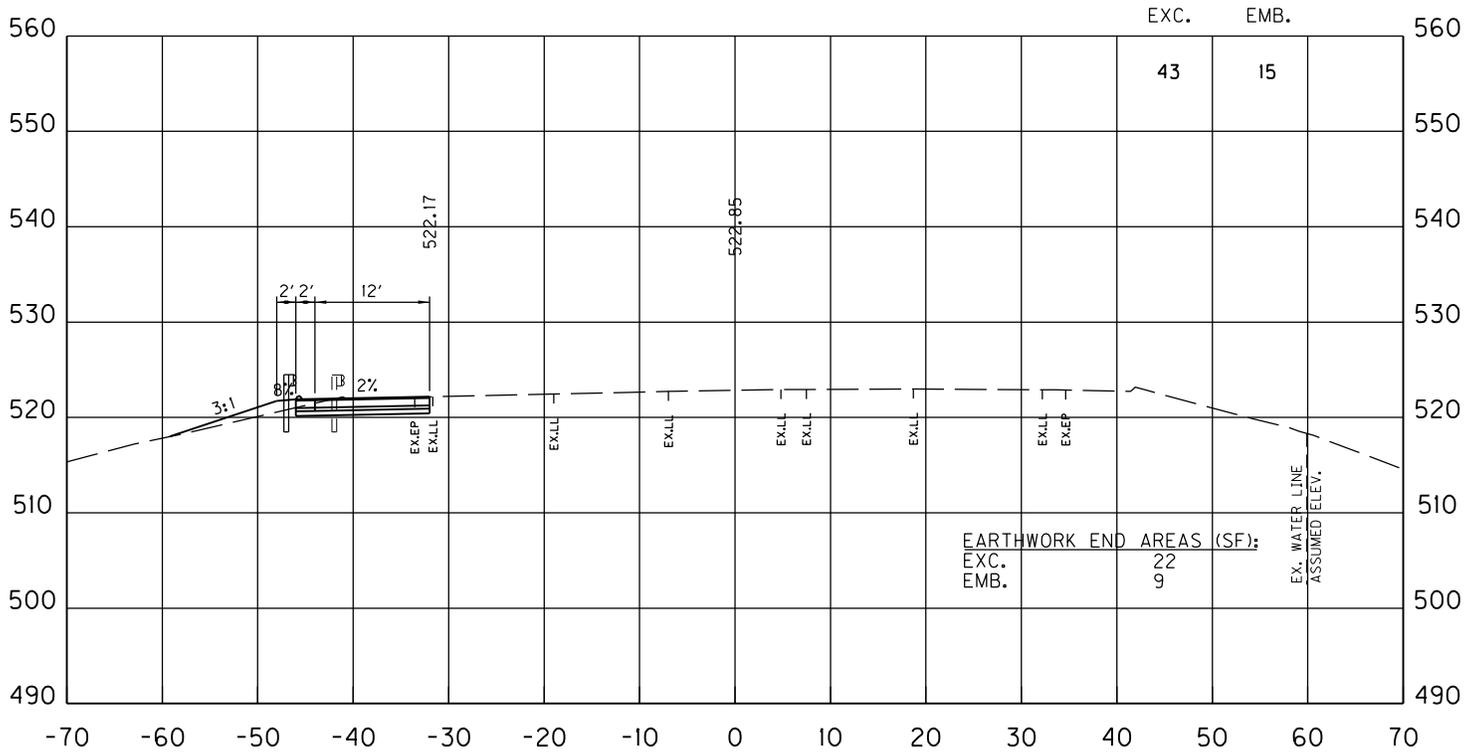


SCALE: 1" = 10' HORIZONTAL  
 1" = 10' VERTICAL

KY 9  
 STA. 127+00 TO STA. 127+80  
 CROSS SECTIONS

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):

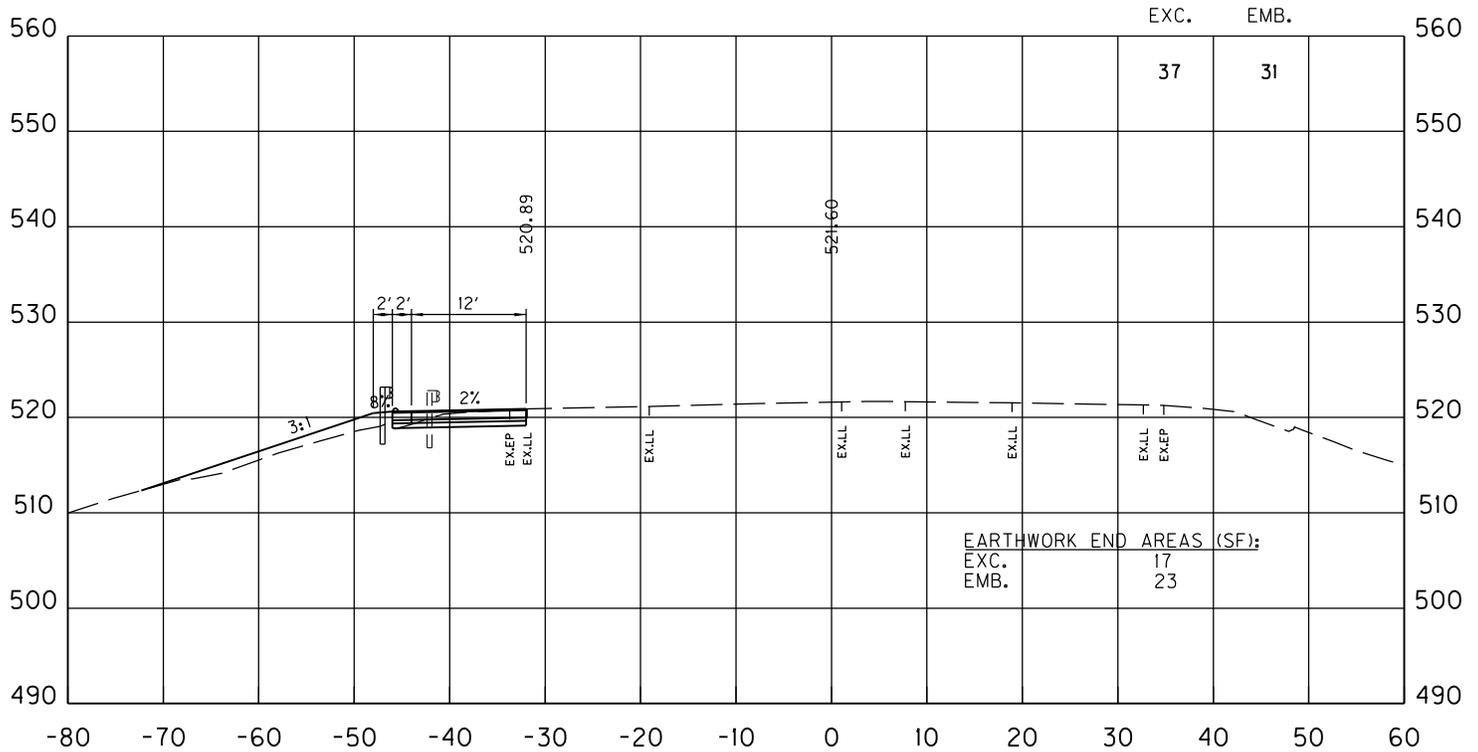


SCALE: 1" = 10' HORIZONTAL  
 1" = 10' VERTICAL

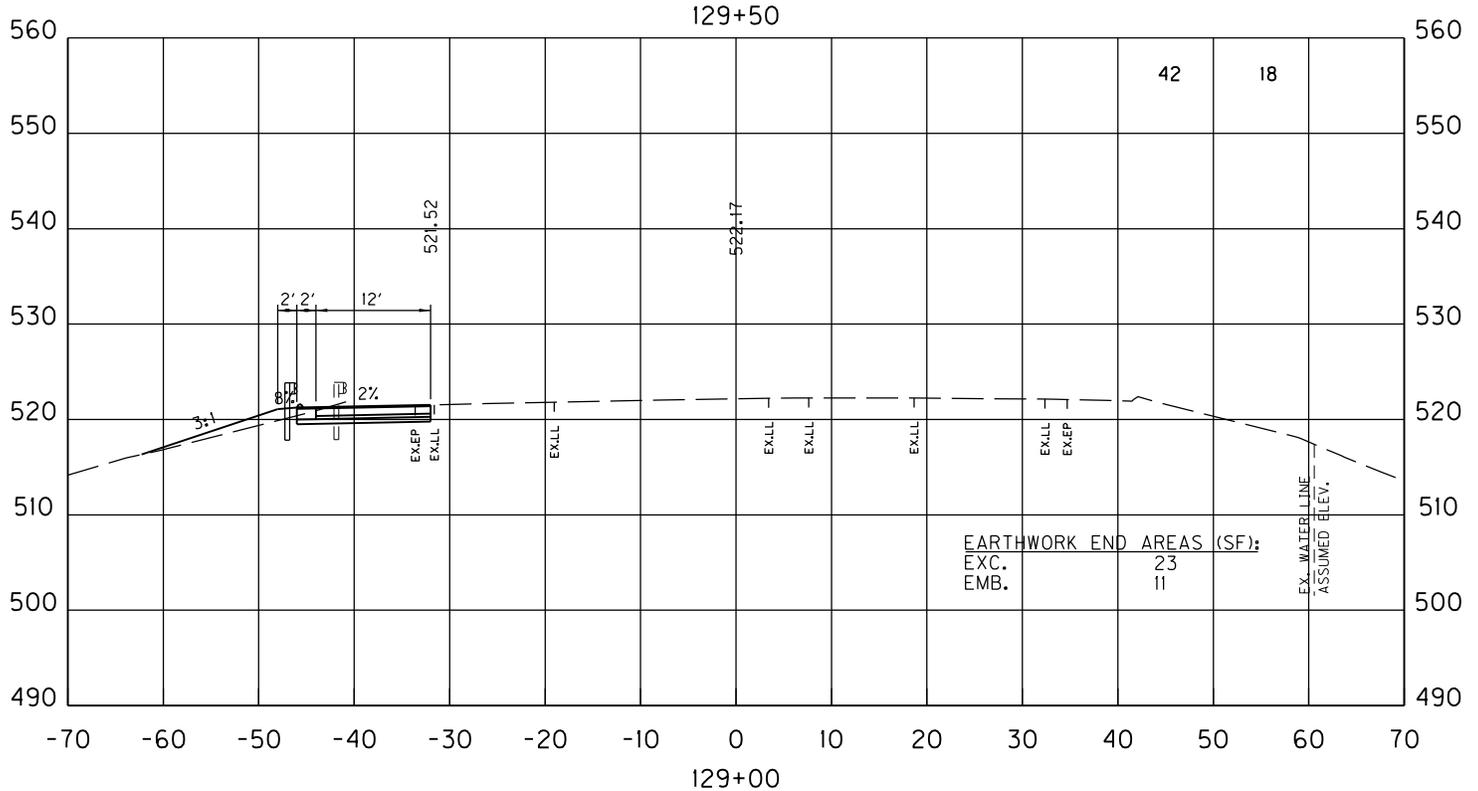
KY 9  
 STA. 128+00 TO STA. 128+50  
 CROSS SECTIONS

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):



EARTHWORK END AREAS (SF):  
 EXC. 17  
 EMB. 23



EARTHWORK END AREAS (SF):  
 EXC. 23  
 EMB. 11

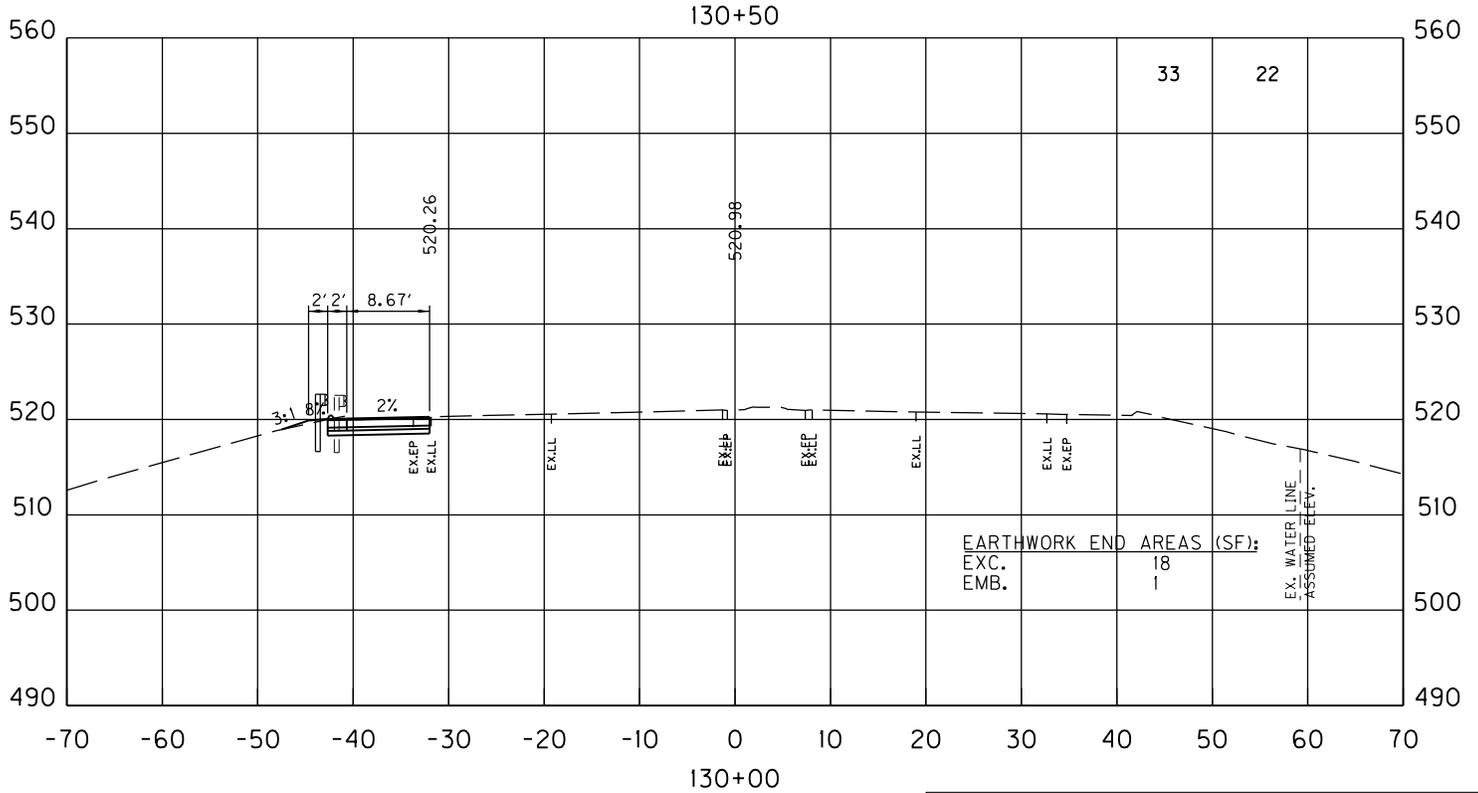
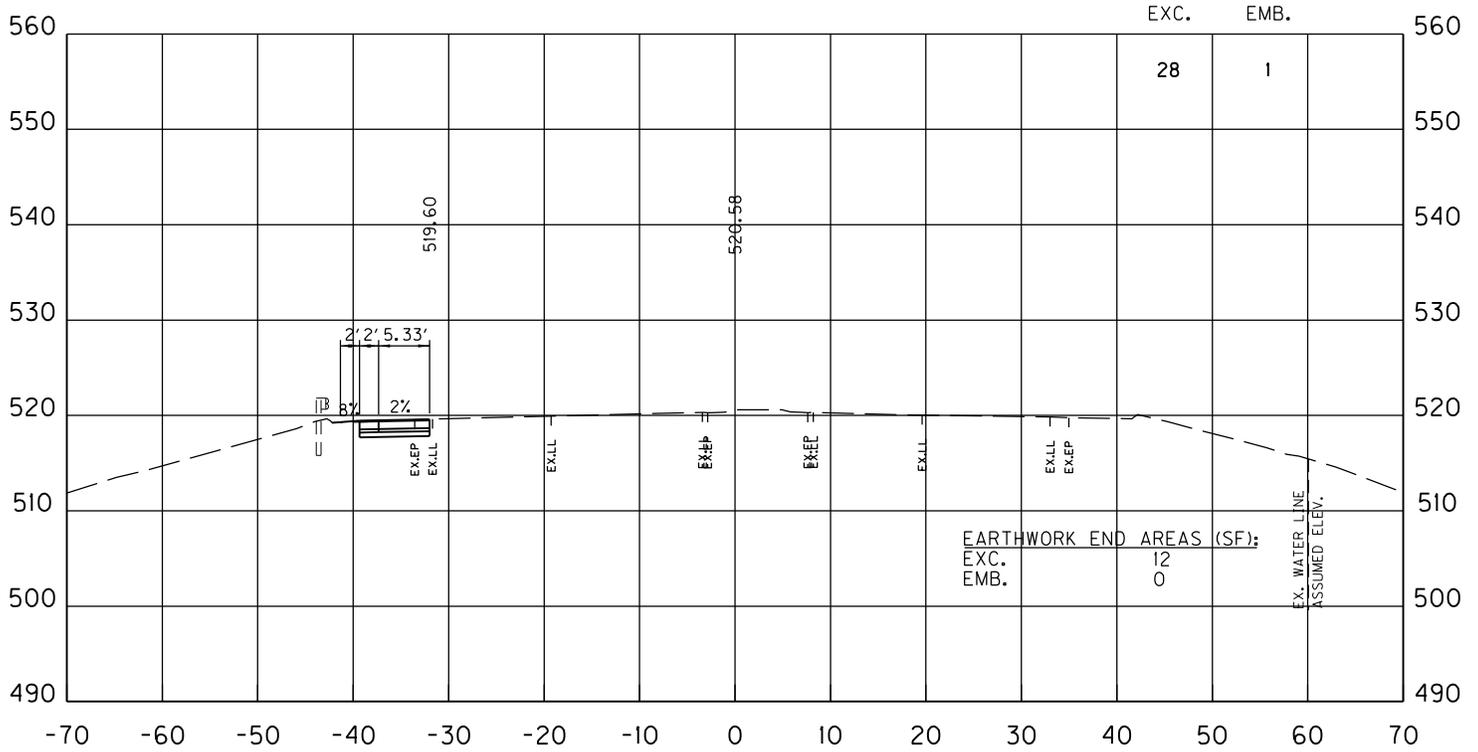
EX. WATERLINE  
 ASSUMED ELEV.

SCALE: 1" = 10' HORIZONTAL  
 1" = 10' VERTICAL

KY 9  
 STA. 129+00 TO STA. 129+50  
 CROSS SECTIONS

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):



EARTHWORK END AREAS (SF):  
 EXC. 12  
 EMB. 0

EARTHWORK END AREAS (SF):  
 EXC. 18  
 EMB. 1

SCALE: 1" = 10' HORIZONTAL  
 1" = 10' VERTICAL

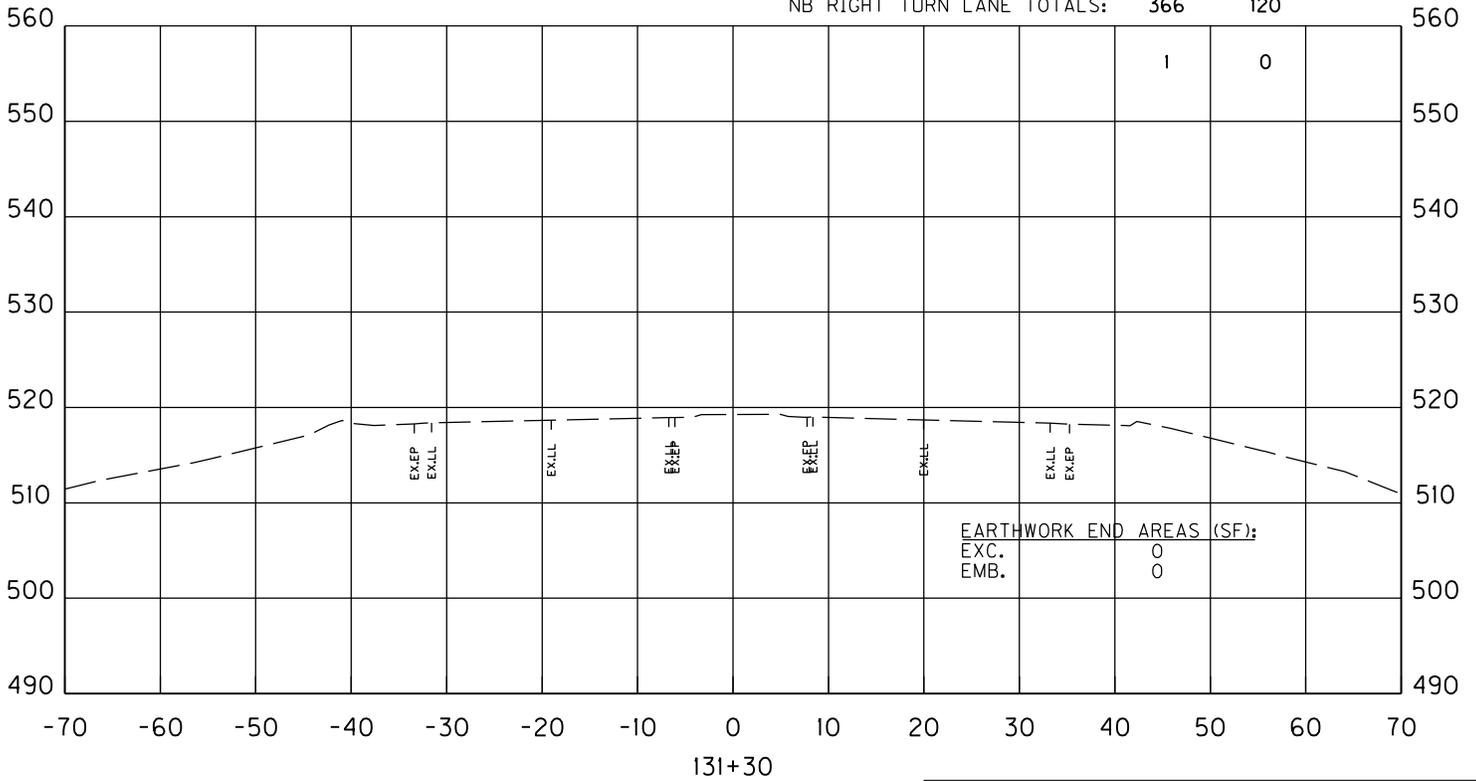
KY 9  
 STA. 130+00 TO STA. 130+80  
 CROSS SECTIONS



COUNTY OF	ITEM NO.
CAMPBELL	6-9017.10

EARTHWORK VOLUMES (CY):

	EXC.	EMB.
PROJECT TOTALS:	773	164
NB RIGHT TURN LANE TOTALS:	366	120



SCALE: 1" = 10' HORIZONTAL  
 1" = 10' VERTICAL

KY 9  
 STA. 131+30  
 CROSS SECTIONS



<b>KENTON COUNTY</b> <b>KY 1303 (TURKEYFOOT ROAD) MP 4.868</b> <b>@ CS 4128 (DUDLEY ROAD)</b> <b>ITEM NO. 6-9017.20</b> <b>GENERAL SUMMARY</b>			
ITEM NUMBER	ITEM	UNIT	QUANTITY
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC (KY 1303 @ CS 4128)	LS	1
2726	STAKING (KY 1303 @ CS 4128)	LS	1
4844	CABLE-NO. 14/5C	LF	173
6514	PAVE STRIPING-PERM PAINT-4 IN (2)	LF	1,109
6568	PAVE MARKING-THERMO STOP BAR-24IN (2)	LF	14
6574	PAVE MARKING-THERMO CURV ARROW (2)	EACH	11
6598	PAVEMENT MARKING REMOVAL (2)	SQFT	78
20188NS835	INSTALL LED SIGNAL - 3 SECTION (1)	EACH	4
20189NS835	INSTALL LED SIGNAL - 5 SECTION (1)	EACH	1
20266ES835	INSTALL LED SIGNAL - 4 SECTION (1)	EACH	2
22664EN	WATER BLASTING EXISTING STRIPE (2)	LF	417
24894EC	REMOVE (PAVEMENT MARKER LENS) (2)	EACH	5
24955ED	REMOVE SIGNAL EQUIPMENT (KY 1303 @ CS 4128)	EACH	1
(1) CARRIED OVER FROM THE SIGNAL SUMMARY			
(2) CARRIED OVER FROM THE STRIPING / PAVEMENT MARKING SUMMARY			

**Signal Head Replacements for: KY 1303 @ CS 4128**

**REPLACE EXISTING SIGNAL HEADS AND INSTALL SUPPLEMENTAL SIGNAL HEADS**

SIGNAL HEAD NUMBER	STATION*	OFFSET*	DESCRIPTION
2C	14+67	70' RT	3 Section Supplemental with Reflective Backplate
8B	15+28	45' RT	3 Section with Reflective Backplate
8A	15+39	46' RT	3 Section with Reflective Backplate
3	15+49	47' RT	4 Section with Flashing Yellow and Reflective Backplate
7	15+75	52' LT	4 Section with Flashing Yellow and Reflective Backplate
4A	15+88	52' LT	3 Section with Reflective Backplate
4B	16+01	52' LT	5 Section with RT Turn Arrows and Reflective Backplate

\* STATION AND OFFSET ARE APPROXIMATE AND ARE FOR INFORMATION ONLY. ALIGN SIGNAL HEADS WITH EXISTING SPAN WIRES AND DRIVING LANES.

NOTE: THESE NUMBERS ARE FOR ESTIMATE PURPOSES ONLY. FINAL LOCATIONS AND QUANTITIES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

**SIGNAL HEAD REPLACEMENTS AND SUPPLEMENTAL SIGNAL HEADS**

Signal Heads For NB KY 1303

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section Supplemental with Reflective Backplate (2C)	1		1		1	

ALL QUANTITIES ARE CARRIED OVER TO GENERAL SUMMARY

Signal Heads For EB CS 4128

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (8B)	1		1		1	
3 Section with Reflective Backplate (8A)	1		1		1	
4 Section with Flashing Yellow and Reflective Backplate (3)		1		2		1
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>

Signal Heads For WB CS 4128

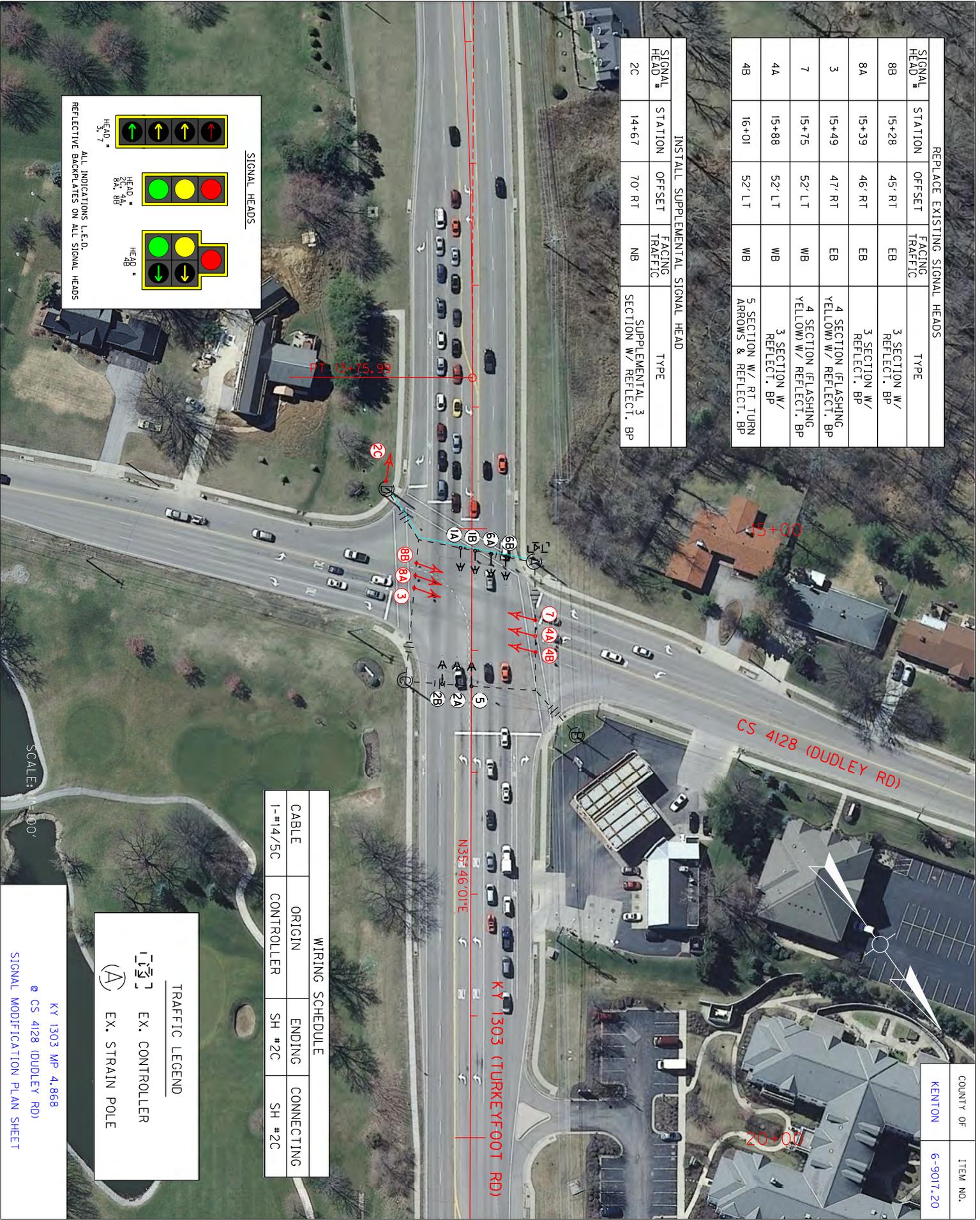
Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
4 Section with Flashing Yellow and Reflective Backplate (7)		1		2		1
3 Section with Reflective Backplate (4A)	1		1		1	
5 Section with RT Turn Arrows and Reflective Backplate (4B)	1		1	1	1	1
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>

KENTON COUNTY KY 1303 AND CS 4128 ITEM NO. 6-9017.20 STRIPING / PAVEMENT MARKING SUMMARY						
STRIPING						
BEGIN		END		LENGTH	DESCRIPTION	LF
STATION	OFFSET	STATION	OFFSET			
11+09	6.0' LT	14+93	6.0' LT	384	4" Double Solid Yellow Line	768
12+52	8.0' RT	14+93	8.0' RT	241	4" Single Solid White Line	241
14+26	20.0' RT	14+76	20.0' RT	50	4" Single Solid White Line	50
16+69	24.0' LT	17+19	24.0' LT	50	4" Single Solid White Line	50
PAVEMENT MARKINGS - ARROWS						
STATION	OFFSET	DESCRIPTION		EACH		
10+32	2.0' RT	Thermoplastic Curve Arrow - Left		1		
10+48	2.0' RT	Thermoplastic Curve Arrow - Left		1		
12+55	2.0' RT	Thermoplastic Curve Arrow - Left		1		
13+20	2.0' RT	Thermoplastic Curve Arrow - Left		1		
13+44	40.0' RT	Thermoplastic Curve Arrow - Right		1		
13+85	2.0' RT	Thermoplastic Curve Arrow - Left		1		
14+24	40.0' RT	Thermoplastic Curve Arrow - Right		1		
14+51	2.0' RT	Thermoplastic Curve Arrow - Left		1		
17+55	44.0' LT	Thermoplastic Curve Arrow - Right		1		
18+19	44.0' LT	Thermoplastic Curve Arrow - Right		1		
18+82	44.0' LT	Thermoplastic Curve Arrow - Right		1		
PAVEMENT MARKINGS - STOP BAR						
STATION	OFFSET	DESCRIPTION		LF		
14+93	6.0' LT - 8.0' RT	24" STOP BAR		14		
WATER BLASTING EXISTING STRIP						
BEGIN		END		LENGTH	DESCRIPTION	LF
STATION	OFFSET	STATION	OFFSET			
11+09	8.0' RT	13+30	8.0' RT	221	4" Solid/Skip Yellow Line	277
13+30	8.0' RT	14+00	6.0' LT	70	4" Double Solid Yellow Line	140
PAVEMENT MARKING REMOVAL						
STATION	OFFSET	DESCRIPTION		SQFT		
12+23	2.0' RT	Thermoplastic Curve Arrow - Left		15.5		
12+46	2.0' RT	Thermoplastic Curve Arrow - Left		15.5		
14+04	2.0' RT	Thermoplastic Curve Arrow - Left		15.5		
14+39	40.0' RT	Thermoplastic Curve Arrow - Right		15.5		
14+70	2.0' RT	Thermoplastic Curve Arrow - Left		15.5		
REMOVE PAVEMENT MARKER LENS						
STATION	OFFSET	DESCRIPTION		EACH		
12+80	8.0' RT	Remove from Solid/Skip Yellow Line		1		
13+25	8.0' RT	Remove from Solid/Skip Yellow Line		1		
13+50	5.5' RT	Remove from Double Yellow Taper Line		1		
13+70	0.5' RT	Remove from Double Yellow Taper Line		1		
13+85	4.5' LT	Remove from Double Yellow Taper Line		1		

BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	1,109
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	14
6574	PAVE MARKING-THERMO CURV ARROW	EACH	11
6598	PAVEMENT MARKING REMOVAL	SQFT	78
22664EN	WATER BLASTING EXISTING STRIPE	LF	417
24894EC	REMOVE (PAVEMENT MARKER LENS)	EACH	5

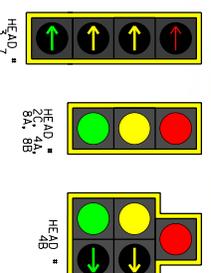
SIGNAL HEAD #	STATION	OFFSET	FACING TRAFFIC	TYPE
8B	15+28	45' RT	EB	3 SECTION W/ REFLECT. BP
8A	15+39	46' RT	EB	3 SECTION W/ REFLECT. BP
3	15+49	47' RT	EB	4 SECTION (FLASHING YELLOW) W/ REFLECT. BP
7	15+75	52' LT	WB	4 SECTION (FLASHING YELLOW) W/ REFLECT. BP
4A	15+88	52' LT	WB	3 SECTION W/ REFLECT. BP
4B	16+01	52' LT	WB	5 SECTION W/ RT TURN ARROWS & REFLECT. BP

SIGNAL HEAD #	STATION	OFFSET	FACING TRAFFIC	TYPE
2C	14+67	70' RT	NB	SUPPLEMENTAL 3 SECTION W/ REFLECT. BP



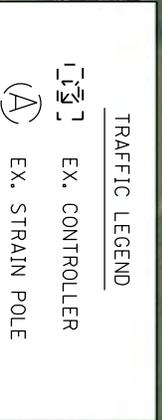
COUNTY OF	KENTON
ITEM NO.	6-9017.20

**SIGNAL HEADS**



ALL INDICATORS L.E.D.  
REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS

WIRING SCHEDULE			
CABLE	ORIGIN	ENDING	CONNECTING
1-#14/5C	CONTROLLER	SH #2C	SH #2C



SCALE: 1"=100'

KY 1303 MP 4.868  
CS 4128 (DUDLEY RD)  
SIGNAL MODIFICATION PLAN SHEET

PROPOSED STRIPING - 4 IN			
STATION	TO	COLOR	LF
11+09	14+93	DOUBLE YELLOW	768
12+52	14+93	SOLID WHITE	241
14+26	14+76	SOLID WHITE	50
16+69	17+19	SOLID WHITE	50

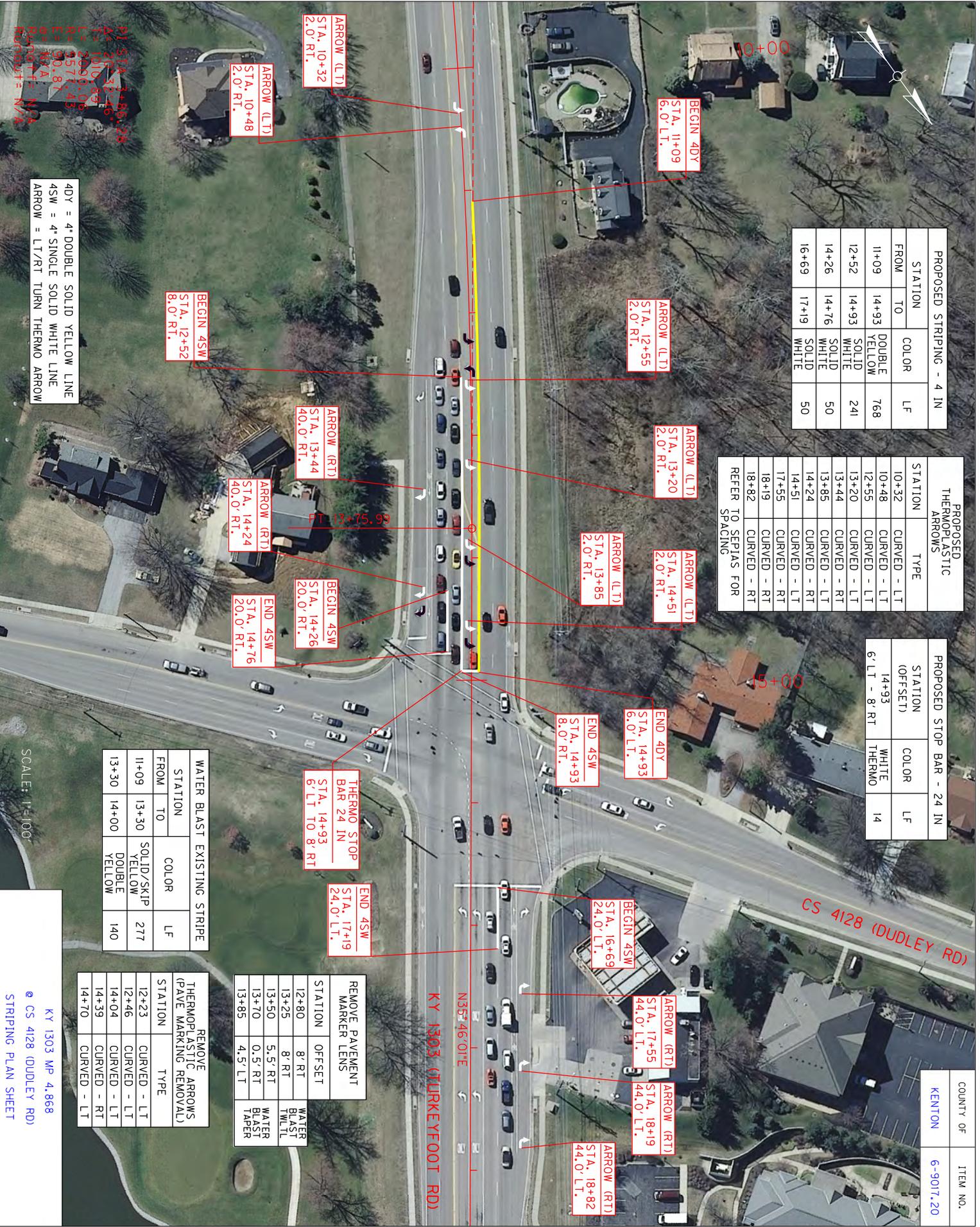
PROPOSED THERMOPLASTIC ARROWS			
STATION	TYPE		
10+32	CURVED - LT		
10+48	CURVED - LT		
12+55	CURVED - LT		
13+20	CURVED - LT		
13+44	CURVED - RT		
13+85	CURVED - RT		
14+24	CURVED - LT		
14+51	CURVED - LT		
17+55	CURVED - RT		
18+19	CURVED - RT		
18+82	CURVED - RT		

PROPOSED STOP BAR - 24 IN			
STATION (OFFSET)	COLOR	LF	
14+93 6' LT - 8' RT	WHITE THERMO	14	

WATER BLAST EXISTING STRIPE			
STATION	TO	COLOR	LF
11+09	13+30	SOLID/SKIP YELLOW	277
13+30	14+00	DOUBLE YELLOW	140

REMOVE THERMOPLASTIC ARROWS (PAVE MARKING REMOVAL)			
STATION	TYPE		
12+23	CURVED - LT		
12+46	CURVED - LT		
14+04	CURVED - LT		
14+39	CURVED - RT		
14+70	CURVED - LT		

REMOVE PAVEMENT MARKER LENS			
STATION	OFFSET	WATER BLAST TWL	WATER BLAST TAPER
12+80	8' RT		
13+25	8' RT		
13+50	5.5' RT		
13+70	0.5' RT		
13+85	4.5' LT		



4DY = 4" DOUBLE SOLID YELLOW LINE  
4SW = 4" SINGLE SOLID WHITE LINE  
ARROW = LT/RT TURN THERMO ARROW

SCALE: 1"=100'

KY 1303 MP 4.868  
CS 4128 (DUDLEY RD)  
STRIPING PLAN SHEET

COUNTY OF KENTON  
ITEM NO. 6-9017.20

Jeff Wolfe - Director

**DIVISION OF TRAFFIC OPERATIONS**

Phone (502) 564-3020  
FAX (502) 564-7759

**RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED  
ON TRAFFIC SIGNALS/LIGHTING**

Item Number: 6-9017.20

County: Kenton

Description: KY 1303 and CS 4128  
All heads to have reflective backplates

**Cabinets Master code**

Signals		
4	T-02-0009	Siemens 3 Section Signal
4	T-02-0032	Siemen 3 section backplate
2	T-02-0033	Siemen 4 section 12" signal (poly)
1	T-02-0040	Siemen 5 section, 12 inch signal (poly)
1	T-02-0041	Siemen 5 section backplate
2	T-02-0043	Siemen 4-sec. straight signal backplate
2	T-02-0300	LED Module 12" red arrow
5	T-02-0310	LED Module 12" yellow arrow
3	T-02-0320	LED Module 12" green arrow
5	T-02-0330	LED Module 12" red ball
5	T-02-0340	LED Module 12" yellow ball
5	T-02-0350	LED Module 12" green ball

**Special items**

**Poles**

Electrical Contractor Name \_\_\_\_\_  
Electrical Contractor Supervisor \_\_\_\_\_  
Project Engineer \_\_\_\_\_

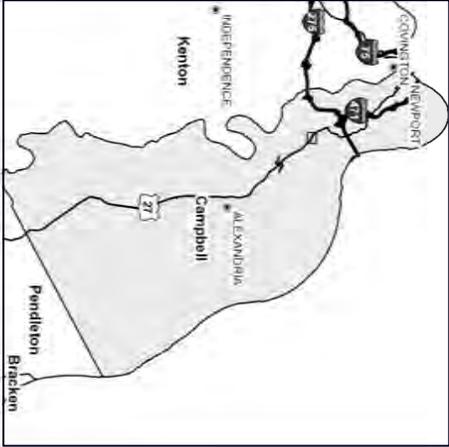
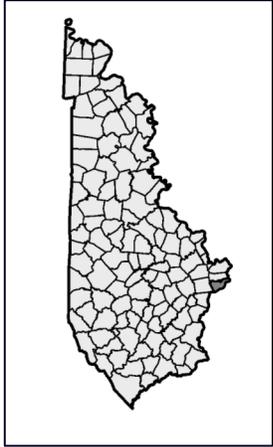
Contact number for Supervisor \_\_\_\_\_  
Contact number for Project Engineer \_\_\_\_\_

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

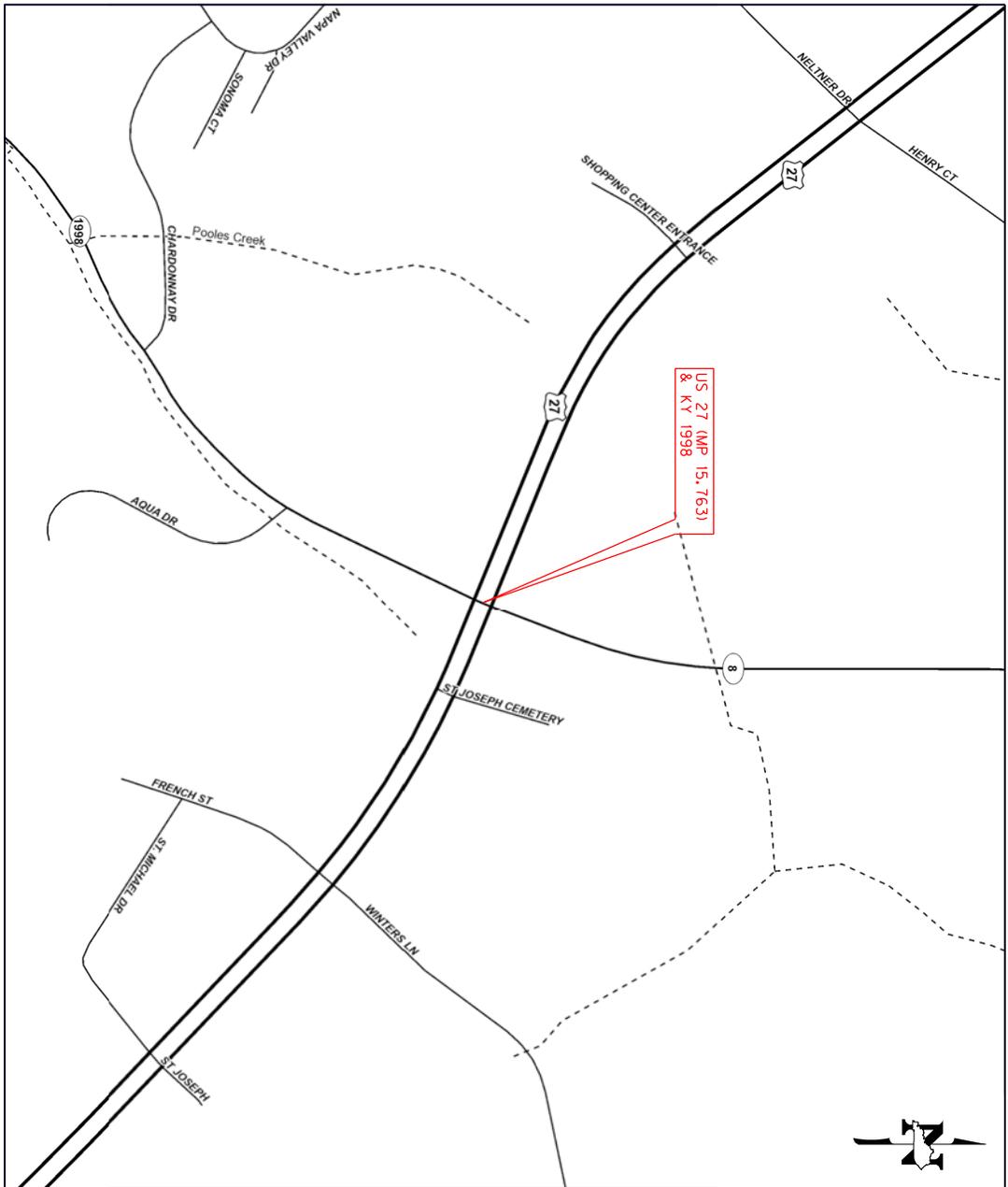
Signature of Project Engineer or Designee \_\_\_\_\_

**CAMPBELL COUNTY**  
**Intersection Improvement at US 27 (Alexandria Pike) and**  
**KY 1998 (Pooles Creek Road / Industrial Road)**

COUNTY OF	ITEM NO.
CAMPBELL	6-9017.30



**Commonwealth of Kentucky**  
**DEPARTMENT OF HIGHWAYS**  
PLANS OF  
PROPOSED PROJECT  
**CAMPBELL COUNTY**  
US 27



<b>CAMPBELL COUNTY</b> <b>US 27 (ALEXANDRIA PIKE) MP 15.763</b> <b>@ KY 1998 (POOLES CREEK ROAD AND INDUSTRIAL ROAD)</b> <b>ITEM NO. 6-9017.30</b> <b>GENERAL SUMMARY</b>			
ITEM NUMBER	ITEM	UNIT	QUANTITY
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC (US 27 @ KY 1998)	LS	1
2726	STAKING (US 27 @ KY 1998)	LS	1
4844	CABLE-NO. 14/5C	LF	1,306
6406	SBM ALUM SHEET SIGNS .080 IN (2)	SQFT	9
6410	STEEL POST TYPE 1 (2)	LF	14
6514	PAVE STRIPING-PERM PAINT-4 IN (3)	LF	694
6574	PAVE MARKING-THERMO CURV ARROW (3)	EACH	6
6568	PAVE MARKING-THERMO STOP BAR-24 IN (3)	LF	12
6598	PAVEMENT MARKING REMOVAL (3)	SQFT	86
20188NS835	INSTALL LED SIGNAL - 3 SECTION (1)	EACH	14
22664EN	WATER BLASTING EXISTING STRIPE (3)	LF	546
22680EN	QWICK CURB MEDIAN SEPARATOR	LF	297
24631EC	BARCODE SIGN INVENTORY (2)	EACH	1
24894EC	REMOVE (PAVEMENT MARKER LENS) (3)	EACH	13
24955ED	REMOVE SIGNAL EQUIPMENT (US 27 @ KY 1998) (4)	EACH	1

- ① CARRIED OVER FROM THE SIGNAL SUMMARY
- ② CARRIED OVER FROM THE SIGNING SUMMARY
- ③ CARRIED OVER FROM THE STRIPING/PAVEMENT MARKING SUMMARY
- ④ INCLUDES REMOVAL OF 10 EXISTING SIGNS ON SPAN WIRES

**Signal Head Replacements for: US 27 @ KY 1998**

**REPLACE EXISTING SIGNAL HEADS AND INSTALL SUPPLEMENTAL SIGNAL HEADS**

SIGNAL HEAD NUMBER	STATION*	OFFSET*	DESCRIPTION
5	391+64	0'	3 Section (Arrows) with Reflective Backplate
2A	391+64	12' LT	3 Section with Reflective Backplate
2B	391+64	24' LT	3 Section with Reflective Backplate
4B	391+92	52' RT	3 Section with Reflective Backplate
4A	392+00	52' RT	3 Section with Reflective Backplate
7	392+08	52' RT	3 Section (Arrows) with Reflective Backplate
3	392+04	53' LT	3 Section (Arrows) with Reflective Backplate
8A	392+14	53' LT	3 Section with Reflective Backplate
8B	392+24	53' LT	3 Section with Reflective Backplate
1	392+51	0'	3 Section (Arrows) with Reflective Backplate
6A	392+54	12' RT	3 Section with Reflective Backplate
6B	392+58	24' RT	3 Section with Reflective Backplate
6C	391+64	53' RT	Supplemental 3 Section with Reflective Backplate
2C	392+36	53' LT	Supplemental 3 Section with Reflective Backplate

\* STATION AND OFFSET ARE APPROXIMATE AND ARE FOR INFORMATION ONLY. ALIGN SIGNAL HEADS WITH EXISTING SPAN WIRES AND DRIVING LANES.

NOTE: THESE NUMBERS ARE FOR ESTIMATE PURPOSES ONLY. FINAL LOCATIONS AND QUANTITIES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

**SIGNAL HEAD REPLACEMENTS AND SUPPLEMENTAL SIGNAL HEADS**

Signal Heads For NB US 27

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (6A)	1		1		1	
3 Section with Reflective Backplate (6B)	1		1		1	
3 Section (Arrows) with Reflective Backplate (1)		1		1		1
Supplemental 3 Section with Reflective Backplate (6C)	1		1		1	
<b>Totals</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>1</b>

ALL QUANTITIES ARE CARRIED OVER TO GENERAL SUMMARY

Signal Heads For SB US 27

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (2A)	1		1		1	
3 Section with Reflective Backplate (2B)	1		1		1	
3 Section (Arrows) with Reflective Backplate (5)		1		1		1
Supplemental 3 Section with Reflective Backplate (2C)	1		1		1	
<b>Totals</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>1</b>

Signal Heads For WB KY8

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (8A)	1		1		1	
3 Section with Reflective Backplate (8B)	1		1		1	
3 Section (Arrows) with Reflective Backplate (3)		1		1		1
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>

Signal Heads For EB KY1998

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (4A)	1		1		1	
3 Section with Reflective Backplate (4B)	1		1		1	
3 Section (Arrows) with Reflective Backplate (7)		1		1		1
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>

**CAMPBELL COUNTY  
US 27 & KY 1998  
ITEM NO. 6-9017.30  
STRIPING / PAVEMENT MARKING SUMMARY**

STRIPING						
BEGIN		END		LENGTH	DESCRIPTION	LF
STATION	OFFSET	STATION	OFFSET			
388+40	3.8' LT	391+37	5.8' LT	297	4" Single Solid Yellow Line	297
388+40	4.4' LT	391+37	6.4' LT	297	4" Single Solid Yellow Line	297
390+94	18.0' RT	391+44	18.0' RT	50	4" Single Solid White Line	50
392+57	18.0' LT	393+07	18.0' LT	50	4" Single Solid White Line	50
PAVEMENT MARKINGS - STOP BAR						
STATION	OFFSET	DESCRIPTION		LF		
392+59	6' LT - 6' RT	24" THERMOPLASTIC STOP BAR		12		
PAVEMENT MARKINGS - ARROWS						
STATION	OFFSET	DESCRIPTION		EACH		
389+79	3.0' RT	Thermoplastic Curve Arrow		1		
390+37	3.0' RT	Thermoplastic Curve Arrow		1		
390+97	3.0' RT	Thermoplastic Curve Arrow		1		
392+99	4.0' LT	Thermoplastic Curve Arrow		1		
393+62	4.0' LT	Thermoplastic Curve Arrow		1		
394+27	4.0' LT	Thermoplastic Curve Arrow		1		
WATER BLAST EXISTING STRIPE						
BEGIN		END		LENGTH	DESCRIPTION	LF
STATION	OFFSET	STATION	OFFSET			
388+30	8.0' RT	389+79	6.0' LT	149	4" Double Solid Yellow Line	298
394+33	4.0' RT	395+57	6.0' LT	124	4" Solid/Skip Yellow Line	248
PAVEMENT MARKING REMOVAL						
STATION	OFFSET	DESCRIPTION		SQFT		
389+90	3.0' RT	Remove Thermoplastic Curve Arrow		15.5		
391+10	3.0' RT	Remove Thermoplastic Curve Arrow		15.5		
392+77	4.0' LT	Remove Thermoplastic Curve Arrow		15.5		
394+18	4.0' LT	Remove Thermoplastic Curve Arrow		15.5		
392+52	6.0' LT - 6.0' RT	Remove SB US 27 Left Turn Lane - Stop Bar		24.0		
REMOVE PAVEMENT MARKER LENS						
BEGIN		END		DESCRIPTION	QUANTITY	
STATION	OFFSET	STATION	OFFSET			
388+40	4.0' LT	391+37	6.0' LT	Remove Along Qwick Curb	8	
388+30	8.0' RT	389+79	6.0' LT	Remove Along Water Blast Turn Lane Taper	3	
394+33	4.0' RT	395+57	6.0' LT	Remove Along Water Blast Turn Lane Taper	2	

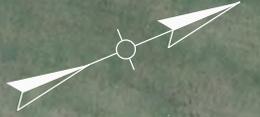
BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	694
6574	PAVE MARKING-THERMO CURV ARROW	EACH	6
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	12
6598	PAVEMENT MARKING REMOVAL	SQFT	86
22664EN	WATER BLASTING EXISTING STRIPE	LF	546
24894EC	REMOVE (PAVEMENT MARKER LENS)	EACH	13

CAMPBELL COUNTY US 27 (ALEXANDRIA PIKE) MP 15.763 @ KY 1998 (POOLES CREEK ROAD AND INDUSTRIAL ROAD) ITEM NO. 6-9017.30 SIGNING SUMMARY										
STATION / MILEPOINT	SIGN SPECIFICATION	SIGN LOCATION			SIGN SIZE			STEEL POST TYPE 1	REMOVE SIGN	COMMENTS
		SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	HORIZ. X VERT.	.080 ALUM AREA	.125 ALUM AREA			
389+35	R3-2	ENT	SB	US 27	36" X 36"	9	---	14	---	NO LEFT TURN INSTALLED IN UTILITY STRIP AT ENTRANCE

BID ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	9
6410	STEEL POST TYPE 1	LF	14
24631EC	BARCODE SIGN INVENTORY	EACH	1

REFER TO THE SPECIAL NOTE FOR SIGNING, THE SPECIAL NOTE FOR BARCODES ON PERMANENT SIGNS, STANDARD SIGNING DETAIL SHEETS, AND PLAN SHEETS FOR MORE INFORMATION.

CAMPBELL COUNTY US 27 (ALEXANDRIA PIKE) MP 15.763 @ KY 1998 (POOLES CREEK ROAD AND INDUSTRIAL ROAD) ITEM NO. 6-9017.30 REMOVE SIGN ON SPAN WIRE			
SPAN	SIGN SPECIFICATION	COMMENTS	
A-B	R3-5, R3-5a, R3-5	INCIDENTAL TO REMOVE SIGNAL EQUIPMENT	EXISTING SIGNS (3) ARE MOUNTED ON SPAN WIRE A-B
B-C	R3-5, R10-12	INCIDENTAL TO REMOVE SIGNAL EQUIPMENT	EXISTING SIGNS (2) ARE MOUNTED ON SPAN WIRE B-C
C-D	R3-5, R3-5a, R3-5	INCIDENTAL TO REMOVE SIGNAL EQUIPMENT	EXISTING SIGNS (3) ARE MOUNTED ON SPAN WIRE C-D
D-A	R3-5, R10-12	INCIDENTAL TO REMOVE SIGNAL EQUIPMENT	EXISTING SIGNS (2) ARE MOUNTED ON SPAN WIRE D-A



PROPOSED STOP BAR - 24 IN		
STATION (OFFSET)	COLOR	LF
392+59 6' LT - 6' RT	WHITE THERMO	12
REMOVE EXISTING LEFT TURN LANE STOP BAR (SB US 27)		

THERMO STOP BAR 24 IN		
STA. 392+59	6' LT TO 6' RT	

ARROW	
STA. 394+27	4.0' LT.

ARROW	
STA. 392+99	4.0' LT.

ARROW	
STA. 393+62	4.0' LT.

END WB	
STA. 395+57	6.0' LT.

BEGIN WB	
STA. 394+33	4.0' RT.

END 4SW	
STA. 393+07	18.0' LT.

BEGIN 4SW	
STA. 392+57	18.0' LT.

PROPOSED THERMOPLASTIC ARROWS		
STATION	TYPE	
389+79	CURVED - LT	
390+37	CURVED - LT	
390+97	CURVED - LT	
392+99	CURVED - LT	
393+62	CURVED - LT	
394+27	CURVED - LT	
REFER TO SEPIAS FOR SPACING		

ARROW	
STA. 390+37	3.0' RT.

ARROW	
STA. 389+79	3.0' RT.

END WB	
STA. 389+79	6.0' LT.

PROPOSED STRIPING - 4 IN			
STATION	TO	COLOR	LF
388+40	391+37	SOLID YELLOW	594
SOLID YELLOW LINE STRIPED ON EACH SIDE OF OWICK CURB.			
390+94	391+44	SOLID WHITE	50
392+57	393+07	SOLID WHITE	50

OWICK CURB MEDIAN SEPARATOR			
STATION	TO	COLOR	LF
388+40	391+37	YELLOW	297



OWICK CURB 4SY (TWO)	
STA. 391+37	6.0' LT.

ARROW	
STA. 390+97	3.0' RT.

OWICK CURB 4SY (TWO)	
STA. 388+40	4.0' LT.

REMOVE PAVEMENT MARKER LENS		
STATION	OFFSET	
388+55	6' LT	
388+95	6' LT	
389+35	6' LT	
389+75	6' LT	
390+15	6' LT	
390+55	6' LT	
390+95	6' LT	
391+35	6' LT	
388+49	7.1' RT	
388+92	3.9' RT	
389+47	2.4' LT	
394+60	2.3' RT	
395+38	5.8' LT	

WATER BLAST EXISTING STRIPE		
STATION	TO	COLOR
388+30	389+79	DOUBLE YELLOW
394+33	395+57	DOUBLE YELLOW
LF		
		298
		248

REMOVE THERMOPLASTIC ARROWS (PAVE MARKING REMOVAL)		
STATION	TYPE	
389+90	CURVED - LT	
391+0	CURVED - LT	
392+77	CURVED - LT	
394+18	CURVED - LT	

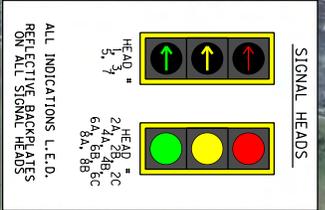
4SW = 4" SINGLE SOLID WHITE LINE  
4SY = 4" SINGLE SOLID YELLOW LINE  
WB = WATER BLAST EXISTING STRIPE

SCALE: 1"=100'

PI 387+11.87  
PI 396+00.00  
PI 398+65.77  
PI 399+37.11  
PI 400+00.00  
PI 401+00.00  
PI 402+00.00  
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US 27 MP 15.763  
KY 1998 (POOLES CREEK RD/INDUSTRIAL RD)  
PLAN SHEET

COUNTY OF  
**CAMPBELL**  
ITEM NO.  
**6-9017.30**



**NOTE: NOTIFY DISTRICT 6 TRAFFIC TWO WEEKS IN ADVANCE OF ANY SIGNAL WORK.**

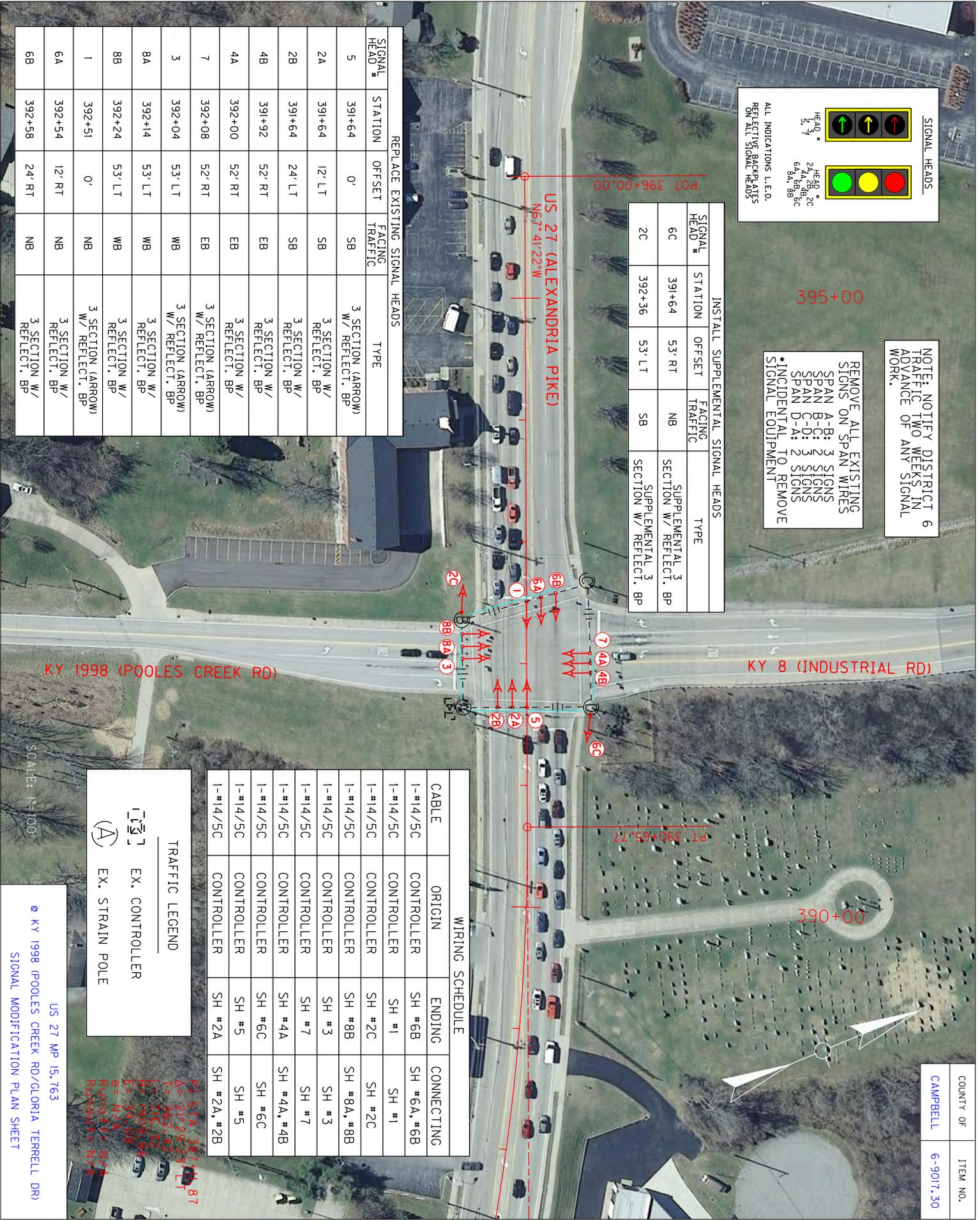
REMOVE ALL EXISTING SIGNS ON SPAN WIRES  
SPAN A-B: 3 SIGNS  
SPAN B-C: 2 SIGNS  
SPAN C-D: 3 SIGNS  
SPAN D-A: 2 SIGNS  
\*INCIDENTAL TO REMOVE SIGNAL EQUIPMENT

INSTALL SUPPLEMENTAL SIGNAL HEADS

SIGNAL HEAD #	STATION	OFFSET	FACING TRAFFIC	TYPE
6C	391+64	53' RT	NB	SUPPLEMENTAL 3 BP SECTION W/ REFLECT.
2C	392+36	53' LT	SB	SUPPLEMENTAL 3 BP SECTION W/ REFLECT.

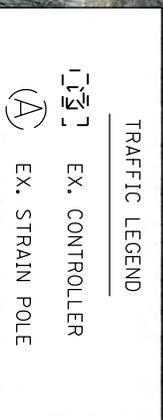
REPLACE EXISTING SIGNAL HEADS

SIGNAL HEAD #	STATION	OFFSET	FACING TRAFFIC	TYPE
5	391+64	0'	SB	3 SECTION (ARROW) W/ REFLECT. BP
2A	391+64	12' LT	SB	3 SECTION W/ REFLECT. BP
2B	391+64	24' LT	SB	3 SECTION W/ REFLECT. BP
4B	391+92	52' RT	EB	3 SECTION W/ REFLECT. BP
4A	392+00	52' RT	EB	3 SECTION W/ REFLECT. BP
7	392+08	52' RT	EB	3 SECTION (ARROW) W/ REFLECT. BP
3	392+04	53' LT	WB	3 SECTION (ARROW) W/ REFLECT. BP
8A	392+14	53' LT	WB	3 SECTION W/ REFLECT. BP
8B	392+24	53' LT	WB	3 SECTION W/ REFLECT. BP
1	392+51	0'	NB	3 SECTION (ARROW) W/ REFLECT. BP
6A	392+54	12' RT	NB	3 SECTION W/ REFLECT. BP
6B	392+58	24' RT	NB	3 SECTION W/ REFLECT. BP



WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-#14/5C	CONTROLLER	SH #6B	SH #6A, #6B
1-#14/5C	CONTROLLER	SH #1	SH #1
1-#14/5C	CONTROLLER	SH #2C	SH #2C
1-#14/5C	CONTROLLER	SH #8B	SH #8A, #8B
1-#14/5C	CONTROLLER	SH #3	SH #3
1-#14/5C	CONTROLLER	SH #7	SH #7
1-#14/5C	CONTROLLER	SH #4A	SH #4A, #4B
1-#14/5C	CONTROLLER	SH #6C	SH #6C
1-#14/5C	CONTROLLER	SH #5	SH #5
1-#14/5C	CONTROLLER	SH #2A	SH #2A, #2B



US 27 MP 15.763  
KY 1998 (POOLES CREEK RD/OLONIA TERRELL DR)  
SIGNAL MODIFICATION PLAN SHEET

DATE: 11/11/2023  
BY: [Signature]  
CHECKED BY: [Signature]  
SCALE: 1"=100'

Jeff Wolfe - Director

**DIVISION OF TRAFFIC OPERATIONS**

Phone (502) 564-3020  
FAX (502) 564-7759

**RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED  
ON TRAFFIC SIGNALS/LIGHTING**

Item Number: 6-9017.30

County: Campbell

Description: US 27 and KY 1998  
All heads to have reflective backplates

**Cabinets Master code**

**Signals**

14	T-02-0009	Siemens 3 Section Signal
14	T-02-0032	Siemen 3 section backplate
4	T-02-0300	LED Module 12" red arrow
4	T-02-0310	LED Module 12" yellow arrow
4	T-02-0320	LED Module 12" green arrow
10	T-02-0330	LED Module 12" red ball
10	T-02-0340	LED Module 12" yellow ball
10	T-02-0350	LED Module 12" green ball

**Special items**

**Poles**

Electrical Contractor Name \_\_\_\_\_

Electrical Contractor Supervisor \_\_\_\_\_

Project Engineer \_\_\_\_\_

Contact number for Supervisor \_\_\_\_\_

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 \_\_\_\_\_



<b>KENTON COUNTY</b> <b>KY 1303 (TURKEYFOOT ROAD) MP 3.972</b> <b>@ KY 236 (STEVENSON ROAD) &amp; MISTY CREEK DRIVE</b> <b>ITEM NO. 6-9017.40</b> <b>GENERAL SUMMARY</b>			
ITEM NUMBER	ITEM	UNIT	QUANTITY
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC (KY 1303 @ KY 236)	LS	1
2726	STAKING (KY 1303 @ KY 236)	LS	1
6514	PAVE STRIPING-PERM PAINT-4 IN <span style="float: right;">②</span>	LF	240
6568	PAVE MARKING-THERMO STOP BAR-24 IN <span style="float: right;">②</span>	LF	28
6573	PAVE MARKING-THERMO STR ARROW <span style="float: right;">②</span>	EACH	2
6574	PAVE MARKING-THERMO CURV ARROW <span style="float: right;">②</span>	EACH	12
6598	PAVEMENT MARKING REMOVAL <span style="float: right;">②</span>	SQFT	56
20188NS835	INSTALL LED SIGNAL - 3 SECTION <span style="float: right;">①</span>	EACH	4
20266ES835	INSTALL LED SIGNAL - 4 SECTION <span style="float: right;">①</span>	EACH	2
22664EN	WATER BLASTING EXISTING STRIPE <span style="float: right;">②</span>	LF	200
24894EC	REMOVE (PAVEMENT MARKER LENS) <span style="float: right;">②</span>	EACH	6
24955ED	REMOVE SIGNAL EQUIPMENT (KY 1303 @ KY 236)	EACH	1
① CARRIED OVER FROM THE SIGNAL SUMMARY			
② CARRIED OVER FROM THE STRIPING / PAVEMENT MARKING SUMMARY			

**Signal Head Replacements for: KY 1303 @ KY 236**

**REPLACE EXISTING SIGNAL HEADS**

SIGNAL HEAD NUMBER	STATION*	OFFSET*	DESCRIPTION
1	10+36	0'	4 Section with Flashing Yellow and Reflective Backplate
6A	10+38	12' LT	3 Section with Reflective Backplate
6B	10+39	24' LT	3 Section with Reflective Backplate
2B	11+58	24' RT	3 Section with Reflective Backplate
2A	11+60	12' RT	3 Section with Reflective Backplate
5	11+62	0'	4 Section with Flashing Yellow and Reflective Backplate

\* STATION AND OFFSET ARE APPROXIMATE AND ARE FOR INFORMATION ONLY. ALIGN SIGNAL HEADS WITH EXISTING SPAN WIRES AND DRIVING LANES.

NOTE: THESE NUMBERS ARE FOR ESTIMATE PURPOSES ONLY. FINAL LOCATIONS AND QUANTITIES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

**SIGNAL HEAD REPLACEMENTS**

Signal Heads For NB KY 1303

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (2B)	1		1		1	
3 Section with Reflective Backplate (2A)	1		1		1	
4 Section with Flashing Yellow and Reflective Backplate (5)		1		2		1
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>

ALL QUANTITIES ARE CARRIED OVER TO GENERAL SUMMARY

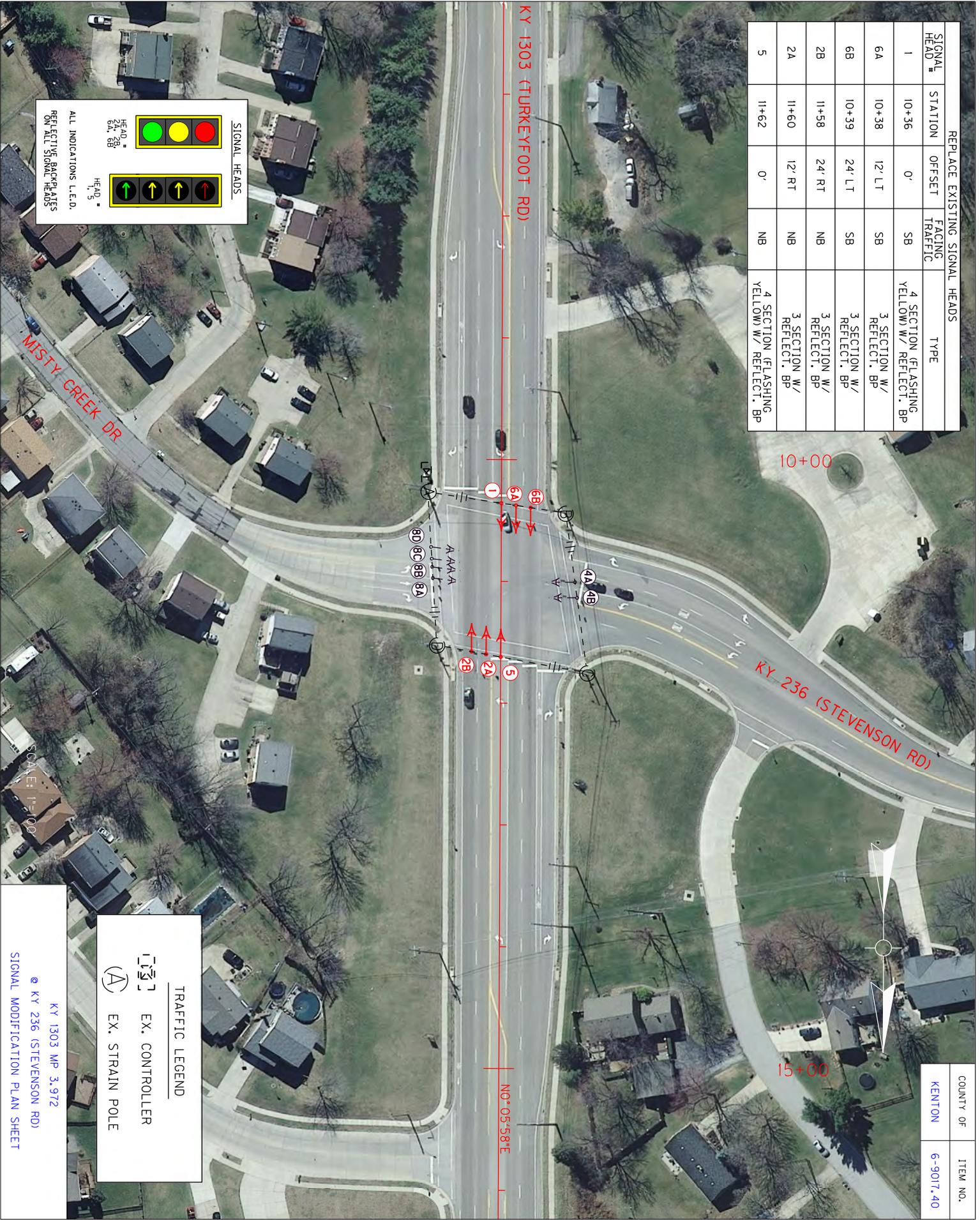
Signal Heads For SB KY 1303

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
4 Section with Flashing Yellow and Reflective Backplate (1)		1		2		1
3 Section with Reflective Backplate (6A)	1		1		1	
3 Section with Reflective Backplate (6B)	1		1		1	
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>

KENTON COUNTY KY 1303 AND KY 236 ITEM NO. 6-9017.40 STRIPING / PAVEMENT MARKING SUMMARY						
STRIPING						
BEGIN		END		LENGTH	DESCRIPTION	LF
STATION	OFFSET	STATION	OFFSET			
9+68	18.0' RT	10+18	18.0' RT	50	4" Single Solid White Line	50
11+70	18.0' LT	12+20	18.0' LT	50	4" Single Solid White Line	50
5+15	12.0' RT	6+55	12.0' RT	140	4" Single Solid White Line	140
PAVEMENT MARKINGS - STOP BAR						
STATION	OFFSET	DESCRIPTION		LF		
10+18	18' RT - 46' RT	24" THERMOPLASTIC STOP BAR		28		
PAVEMENT MARKINGS - ARROWS						
STATION	OFFSET	DESCRIPTION		EACH		
8+28	40.0' RT	Thermoplastic Curve Arrow - Right		1		
9+03	40.0' RT	Thermoplastic Curve Arrow - Right		1		
9+87	40.0' RT	Thermoplastic Curve Arrow - Right		1		
8+20	0.0'	Thermoplastic Curve Arrow - Left		1		
9+05	0.0'	Thermoplastic Curve Arrow - Left		1		
9+90	0.0'	Thermoplastic Curve Arrow - Left		1		
12+05	0.0'	Thermoplastic Curve Arrow - Left		1		
13+00	0.0'	Thermoplastic Curve Arrow - Left		1		
13+95	0.0'	Thermoplastic Curve Arrow - Left		1		
12+15	40.0' LT	Thermoplastic Curve Arrow - Right		1		
13+05	40.0' LT	Thermoplastic Curve Arrow - Right		1		
14+00	40.0' LT	Thermoplastic Curve Arrow - Right		1		
5+20	18.0' RT	Thermoplastic Arrow - Thru		1		
6+15	18.0' RT	Thermoplastic Arrow - Thru		1		
WATER BLASTING EXISTING STRIPE						
BEGIN		END		LENGTH	DESCRIPTION	LF
STATION	OFFSET	STATION	OFFSET			
7+60	7.0' RT	8+15	5.0' LT	55	4" Solid Double Yellow Line	110
14+35	6.0' RT	14+80	6.0' LT	45	4" Solid Double Yellow Line	90
REMOVE PAVEMENT MARKER LENS						
BEGIN		END		DESCRIPTION	QUANTITY	
STATION	OFFSET	STATION	OFFSET			
7+60	7.0' RT	815	5.0' LT	Remove Along Water Blast Turn Lane Taper	3	
14+35	6.0' RT	1550	6.0' LT	Remove Along Water Blast Turn Lane Taper	3	
PAVEMENT MARKING REMOVAL						
STATION	OFFSET	DESCRIPTION		SQFT		
10+25	18' RT - 46' RT	Remove Thermoplastic Stop Bar		56		

BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	240
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	28
6573	PAVE MARKING-THERMO STR ARROW	EACH	2
6574	PAVE MARKING-THERMO CURV ARROW	EACH	12
6598	PAVEMENT MARKING REMOVAL	SQFT	56
22664EN	WATER BLASTING EXISTING STRIPE	LF	200
24894EC	REMOVE (PAVEMENT MARKER LENS)	EACH	6

REPLACE EXISTING SIGNAL HEADS				
SIGNAL #	STATION	OFFSET	FACING TRAFFIC	TYPE
1	10+36	0'	SB	4 SECTION (FLASHING YELLOW) W/ REFLECT. BP
6A	10+38	12' LT	SB	3 SECTION W/ REFLECT. BP
6B	10+39	24' LT	SB	3 SECTION W/ REFLECT. BP
2B	11+58	24' RT	NB	3 SECTION W/ REFLECT. BP
2A	11+60	12' RT	NB	3 SECTION W/ REFLECT. BP
5	11+62	0'	NB	4 SECTION (FLASHING YELLOW) W/ REFLECT. BP



**SIGNAL HEADS**

ALL INDICATORS L.E.D.  
REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS

HEAD # 2A, 2B, 6A, 6B  
HEAD # 1, 5

**TRAFFIC LEGEND**

EX. CONTROLLER  
 EX. STRAIN POLE

KY 1303 MP 3.972  
@ KY 236 (STEVENSON RD)  
SIGNAL MODIFICATION PLAN SHEET

COUNTY OF KENTON  
ITEM NO. 6-9017.40

SCALE: 1"=100'

PROPOSED STRIPING - 4 IN			
STATION	TO	COLOR	LF
FROM	TO	COLOR	LF
9+68	10+18	SOLID WHITE	50
11+70	12+20	SOLID WHITE	50
5+15	6+55	SOLID WHITE	140

REMOVE PAVEMENT MARKER LENS			
STATION	OFFSET	WATER BLAST TAPERS LAST	
7+70	6.2' RT		
7+92	0.5' RT		
8+11	4.3' LT		
14+44	3.6' RT		
14+61	1.0' LT		
14+74	4.6' LT		

PAVE MARKING REMOVAL			
STATION (OFFSET)	TYPE	WHITE THERMO	SF
10+25	18' RT - 46' RT		56

THERMO STOP BAR - 24 IN			
STATION	OFFSET	WATER BLAST TAPERS LAST	
STA. 10+18	18' RT TO 46' RT		

PROPOSED STOP BAR - 24 IN			
STATION (OFFSET)	COLOR	LF	
10+18	WHITE THERMO	28	
18' RT - 46' RT			

WATER BLAST EXISTING STRIPE			
STATION	TO	COLOR	LF
7+60	8+15	DOUBLE YELLOW	110
14+35	14+80	DOUBLE YELLOW	90

PROPOSED THERMOPLASTIC ARROWS			
STATION	TYPE		
8+28	CURVED - RT		
9+03	CURVED - RT		
9+87	CURVED - RT		
8+20	CURVED - LT		
9+05	CURVED - LT		
9+90	CURVED - LT		
12+05	CURVED - LT		
13+00	CURVED - LT		
13+95	CURVED - LT		
12+15	CURVED - RT		
13+05	CURVED - RT		
14+00	CURVED - RT		
5+20	THRU		
6+15	THRU		

PROPOSED STRIPING - 4 IN			
STATION	TO	COLOR	LF
FROM	TO	COLOR	LF
9+68	10+18	SOLID WHITE	50
11+70	12+20	SOLID WHITE	50
5+15	6+55	SOLID WHITE	140

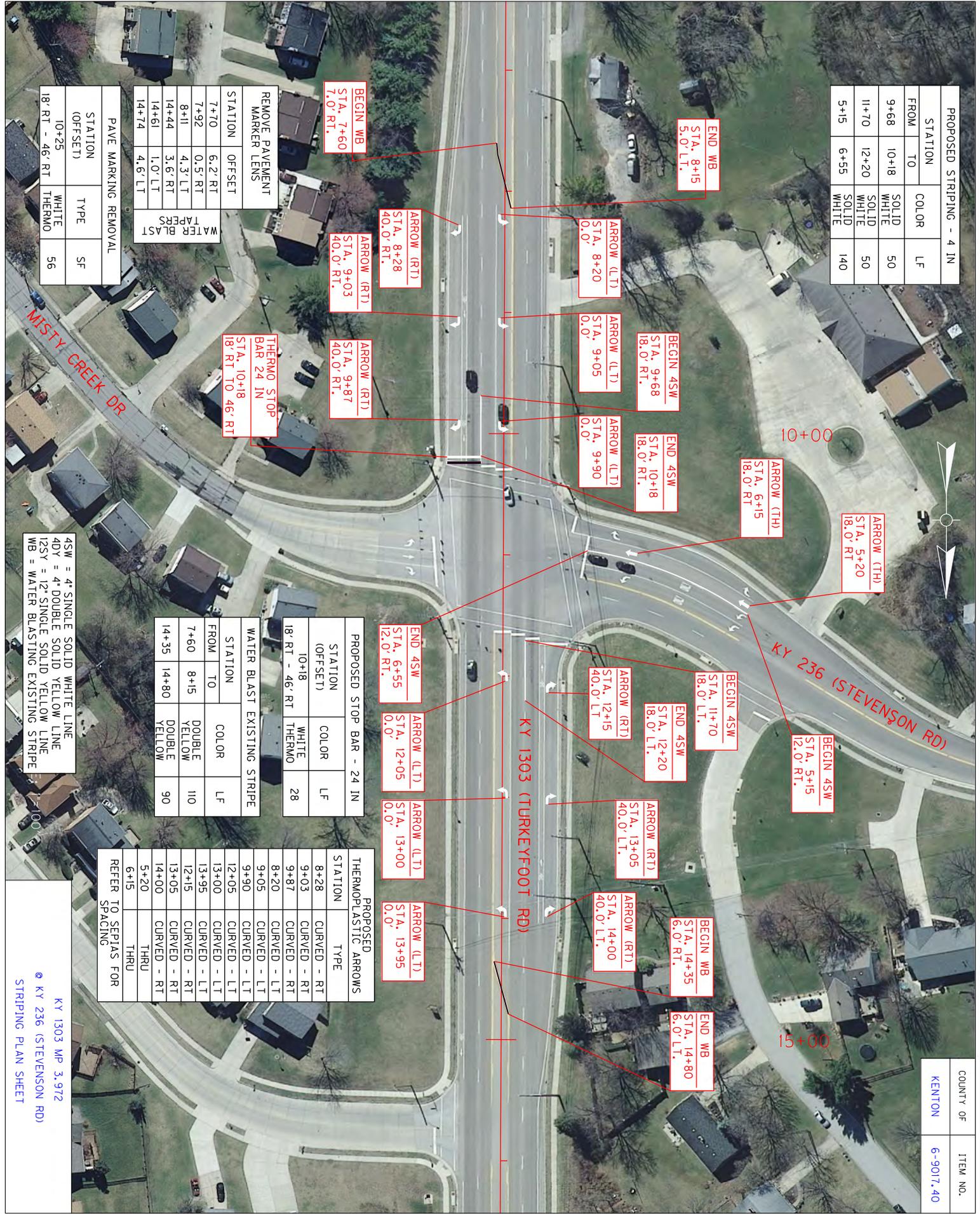
REMOVE PAVEMENT MARKER LENS			
STATION	OFFSET	WATER BLAST TAPERS LAST	
7+70	6.2' RT		
7+92	0.5' RT		
8+11	4.3' LT		
14+44	3.6' RT		
14+61	1.0' LT		
14+74	4.6' LT		

THERMO STOP BAR - 24 IN			
STATION	OFFSET	WATER BLAST TAPERS LAST	
STA. 10+18	18' RT TO 46' RT		

PROPOSED STOP BAR - 24 IN			
STATION (OFFSET)	COLOR	LF	
10+18	WHITE THERMO	28	
18' RT - 46' RT			

WATER BLAST EXISTING STRIPE			
STATION	TO	COLOR	LF
7+60	8+15	DOUBLE YELLOW	110
14+35	14+80	DOUBLE YELLOW	90

PROPOSED THERMOPLASTIC ARROWS			
STATION	TYPE		
8+28	CURVED - RT		
9+03	CURVED - RT		
9+87	CURVED - RT		
8+20	CURVED - LT		
9+05	CURVED - LT		
9+90	CURVED - LT		
12+05	CURVED - LT		
13+00	CURVED - LT		
13+95	CURVED - LT		
12+15	CURVED - RT		
13+05	CURVED - RT		
14+00	CURVED - RT		
5+20	THRU		
6+15	THRU		



COUNTY OF KENTON  
ITEM NO. 6-9017.40

KY 1303 MP 3.972  
KY 236 (STEVENSON RD)  
STRIPING PLAN SHEET

REFER TO SEPIAS FOR SPACING

4SW = 4" SINGLE SOLID WHITE LINE  
4SY = 4" DOUBLE SOLID YELLOW LINE  
12SY = 12" SINGLE SOLID YELLOW LINE  
WB = WATER BLASTING EXISTING STRIPE

Jeff Wolfe - Director

**DIVISION OF TRAFFIC OPERATIONS**

Phone (502) 564-3020  
FAX (502) 564-7759

**RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED  
ON TRAFFIC SIGNALS/LIGHTING**

Item Number: 6-9017.40

County: Kenton

Description: KY 1303 and KY 236  
All heads to have reflective backplates

**Cabinets Master code**

**Signals**

4	T-02-0009	Siemens 3 Section Signal
4	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
4	T-02-0330	LED Module 12" red ball
4	T-02-0340	LED Module 12" yellow ball
4	T-02-0350	LED Module 12" green ball

**Special items**

**Poles**

Electrical Contractor Name \_\_\_\_\_

Electrical Contractor Supervisor \_\_\_\_\_

Project Engineer \_\_\_\_\_

Contact number for Supervisor \_\_\_\_\_

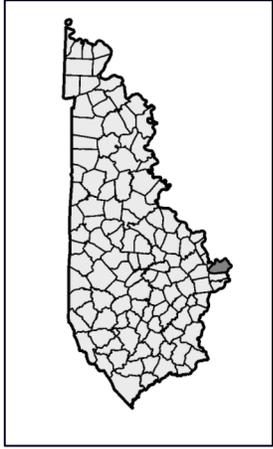
Contact number for Project Engineer \_\_\_\_\_

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

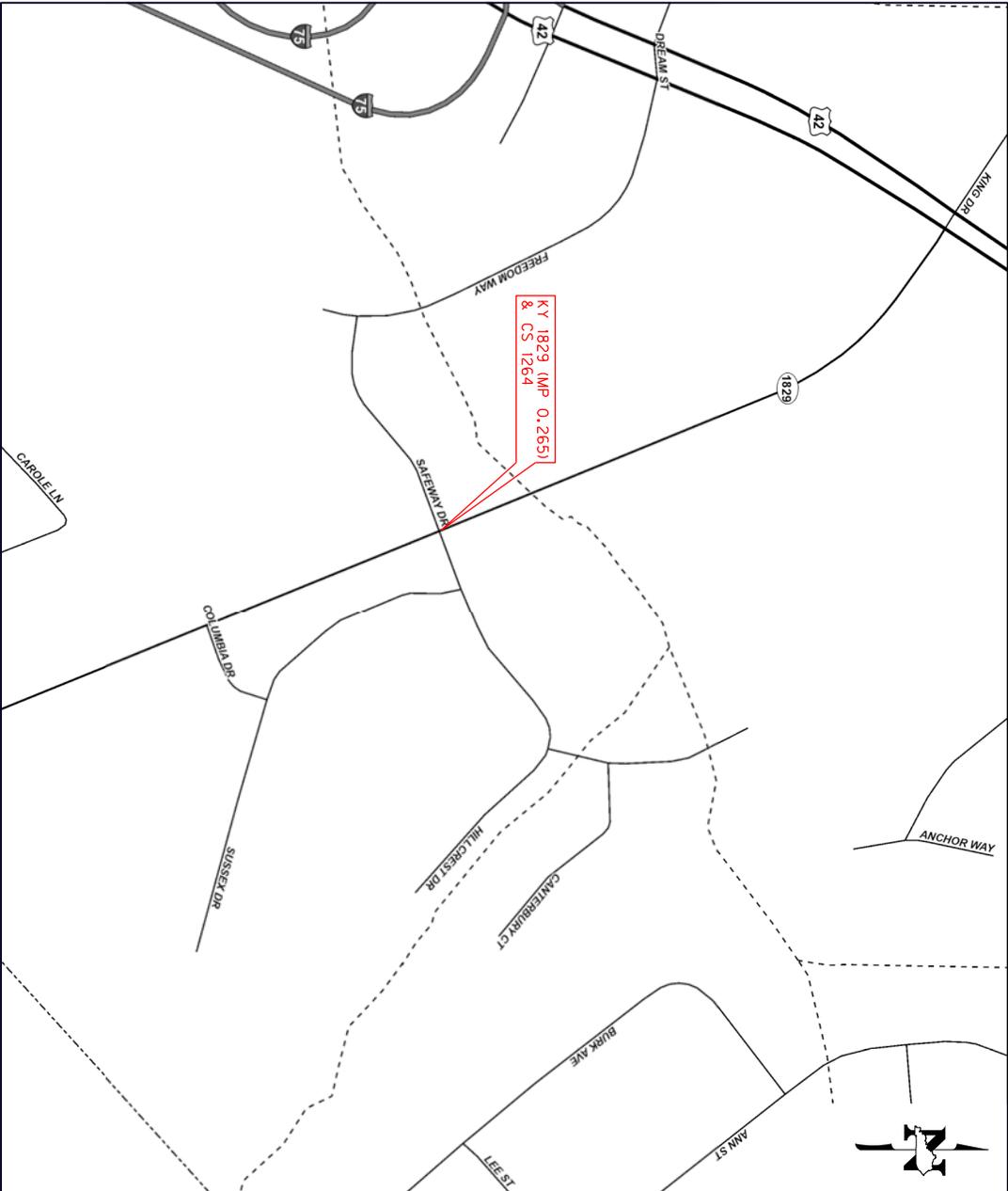
Signature of Project Engineer or Designee \_\_\_\_\_

**BOONE COUNTY**  
**Intersection Improvement at KY 1829 (Industrial Road)**  
**and CS 1264 (Safeway Drive) and Hillcrest Drive**

COUNTY OF	ITEM NO.
BOONE	6-9017.50



Commonwealth of Kentucky  
 DEPARTMENT OF HIGHWAYS  
 PLANS OF  
 PROPOSED PROJECT  
**BOONE COUNTY**  
 KY 1829



<b>BOONE COUNTY</b> <b>KY 1829 (INDUSTRIAL RD) MP 0.265</b> <b>@ CS 1264 (SAFEWAY DR)</b> <b>ITEM NO. 6-9017.50</b> <b>GENERAL SUMMARY</b>			
ITEM NUMBER	ITEM	UNIT	QUANTITY
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC (KY 1829 @ CS 1264)	LS	1
2726	STAKING (KY 1829 @ CS 1264)	LS	1
6406	SBM ALUM SHEET SIGNS .080 IN <span style="float: right;">①</span>	SQFT	16
6410	STEEL POST TYPE 1 <span style="float: right;">①</span>	LF	29
6514	PAVE STRIPING-PERM PAINT-4 IN <span style="float: right;">③</span>	LF	1,435
6568	PAVE MARKING-THERMO STOP BAR-24 IN <span style="float: right;">③</span>	LF	40
6574	PAVE MARKING-THERMO CURV ARROW <span style="float: right;">③</span>	EACH	7
6598	PAVEMENT MARKING REMOVAL <span style="float: right;">③</span>	SQFT	173
20188NS835	INSTALL LED SIGNAL - 3 SECTION <span style="float: right;">②</span>	EACH	8
20266ES835	INSTALL LED SIGNAL - 4 SECTION <span style="float: right;">②</span>	EACH	2
22664EN	WATER BLASTING EXISTING STRIPE <span style="float: right;">③</span>	LF	482
22680EN	QWICK CURB MEDIAN SEPARATOR	LF	340
24631EC	BARCODE SIGN INVENTORY <span style="float: right;">①</span>	EACH	3
24894EC	REMOVE (PAVEMENT MARKER LENS) <span style="float: right;">③</span>	EACH	15
24955ED	REMOVE SIGNAL EQUIPMENT (KY 1829 @ CS 1264) <span style="float: right;">④</span>	EACH	1
① CARRIED OVER FROM THE SIGNING SUMMARY ② CARRIED OVER FROM THE SIGNAL SUMMARY ③ CARRIED OVER FROM THE STRIPING / PAVEMENT MARKING SUMMARY ④ INCLUDES REMOVAL OF 1 EXISTING SIGN ASSEMBLY ON SPAN WIRE B-C			

**Signal Head Replacements for: KY 1829 @ Safeway Dr. & Hillcrest Dr.**

**REPLACE EXISTING SIGNAL HEADS**

SIGNAL HEAD NUMBER	STATION*	OFFSET*	DESCRIPTION
2A	14+67	13' LT	3 Section with Reflective Backplate
2B	14+68	26' LT	3 Section with Reflective Backplate
5	14+65	01' LT	4 Section with Flashing Yellow and Reflective Backplate
4A	15+03	47' RT	3 Section with Reflective Backplate
4B	15+15	47' RT	3 Section with Reflective Backplate
6A	15+68	12' RT	3 Section with Reflective Backplate
6B	15+67	26' RT	3 Section with Reflective Backplate
1	15+69	01' LT	4 Section with Flashing Yellow and Reflective Backplate
8A	15+33	53' LT	3 Section with Reflective Backplate
8B	15+18	54' LT	3 Section with Reflective Backplate

\* STATION AND OFFSET ARE APPROXIMATE AND ARE FOR INFORMATION ONLY. ALIGN SIGNAL HEADS WITH EXISTING SPAN WIRES AND DRIVING LANES.

NOTE: THESE NUMBERS ARE FOR ESTIMATE PURPOSES ONLY. FINAL LOCATIONS AND QUANTITIES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

**SIGNAL HEAD REPLACEMENTS**

Signal Heads For NB KY 1829

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (2A)	1		1		1	
3 Section with Reflective Backplate (2B)	1		1		1	
4 Section with Flashing Yellow and Reflective Backplate (5)		1		2		1
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>

ALL QUANTITIES ARE CARRIED OVER TO GENERAL SUMMARY

Signal Heads For SB KY 1829

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (6A)	1		1		1	
3 Section with Reflective Backplate (6B)	1		1		1	
4 Section with Flashing Yellow and Reflective Backplate (1)		1		2		1
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>

Signal Heads For Hillcrest Dr. (WB)

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (4A)	1		1		1	
3 Section with Reflective Backplate (4B)	1		1		1	
<b>Totals</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>

Signal Heads For Safeway Dr. (EB)

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section with Reflective Backplate (8A)	1		1		1	
3 Section with Reflective Backplate (8B)	1		1		1	
<b>Totals</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>

BOONE COUNTY KY 1829 AND CS 1264 ITEM NO. 6-9017.50 STRIPING / PAVEMENT MARKING SUMMARY						
STRIPING						
BEGIN		END		LENGTH	DESCRIPTION	LF
STATION	OFFSET	STATION	OFFSET			
14+07	18.0' RT	14+57	18.0' RT	50	4" Single Solid White Line	50
15+74	18.0' LT	16+24	18.0' LT	50	4" Single Solid White Line	50
15+74	5.0' LT	17+94	5.0' LT	220	4" Single Solid White Line	220
15+74	7.4' RT	19+14	5.3' LT	340	4" Single Solid Yellow Line	340
15+74	6.7' RT	19+14	4.7' LT	340	4" Single Solid Yellow Line	340
19+14	7.0' RT	20+59	5.0' LT	145	4" Double Solid Yellow Line	290
19+14	7.0' RT	20+59	7.0' RT	145	4" Single Solid White Line	145
PAVEMENT MARKINGS - STOP BAR						
STATION	OFFSET		DESCRIPTION		LF	
14+57	6.0' LT - 34.0' RT		24" THERMOPLASTIC STOP BAR		40	
PAVEMENT MARKINGS - ARROWS						
STATION	OFFSET		DESCRIPTION		EACH	
16+14	0.0'		Thermoplastic Curve Arrow		1	
16+74	0.0'		Thermoplastic Curve Arrow		1	
17+34	0.0'		Thermoplastic Curve Arrow		1	
17+94	0.0'		Thermoplastic Curve Arrow		1	
19+14	0.0'		Thermoplastic Curve Arrow		1	
19+67	0.0'		Thermoplastic Curve Arrow		1	
20+19	0.0'		Thermoplastic Curve Arrow		1	
WATER BLAST EXISTING STRIPE						
BEGIN		END		LENGTH	DESCRIPTION	LF
STATION	OFFSET	STATION	OFFSET			
16+75	5.0' LT	19+14	5.0' LT	239	4" Solid/Skip Yellow Line	299
17+94	7.0' RT	19+40	7.0' RT	146	4" Solid/Skip Yellow Line	183
PAVEMENT MARKING REMOVAL						
STATION	OFFSET		DESCRIPTION		SQFT	
14+65	6.0' LT - 34.0' RT		Remove Thermoplastic Stop Bar		80	
16+00	0.0'		Remove Thermoplastic Curve Arrow		15.5	
17+05	0.0'		Remove Thermoplastic Curve Arrow		15.5	
17+30	0.0'		Remove Thermoplastic Curve Arrow		15.5	
19+05	0.0'		Remove Thermoplastic Curve Arrow		15.5	
19+30	0.0'		Remove Thermoplastic Curve Arrow		15.5	
20+30	0.0'		Remove Thermoplastic Curve Arrow		15.5	
REMOVE PAVEMENT MARKER LENS						
BEGIN		END		DESCRIPTION	QUANTITY	
STATION	OFFSET	STATION	OFFSET			
15+74	7.0' RT	19+14	7.0' RT	Remove Along Double Yellow and Yellow Skip	9	
17+00	5.0' LT	19+14	5.0' LT	Remove Along Yellow Skip	6	

BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	1,435
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	40
6574	PAVE MARKING-THERMO CURV ARROW	EACH	7
6598	PAVEMENT MARKING REMOVAL	SQFT	173
22664EN	WATER BLASTING EXISTING STRIPE	LF	482
24894EC	REMOVE (PAVEMENT MARKER LENS)	EACH	15

BOONE COUNTY KY 1829 (INDUSTRIAL RD) MP 0.265 @ CS 1264 (SAFEWAY DR) ITEM NO. 6-9017.50 SIGNING SUMMARY										
STATION / MILEPOINT	SIGN SPECIFICATION	SIGN LOCATION			SIGN SIZE			STEEL POST TYPE 1	REMOVE SIGN	COMMENTS
		SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	HORIZ. X VERT.	.080 ALUM AREA	.125 ALUM AREA			
14+00	M1-1	LT	WB	KY 1829	24" X 24"	4	---	15	---	
	M5-4	LT	WB	KY 1829	24" X 18"	3	---		---	
17+25	R3-2	ENT	EB	KY 1829	36" X 36"	9	---	14	---	RIGHT TURN ONLY INSTALLED IN UTILITY STRIP AT ENTRANCE

BID ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	16
6410	STEEL POST TYPE 1	LF	29
24631EC	BARCODE SIGN INVENTORY	EACH	3

REFER TO THE SPECIAL NOTE FOR SIGNING, THE SPECIAL NOTE FOR BARCODES ON PERMANENT SIGNS, STANDARD SIGNING DETAIL SHEETS, AND SIGNING PLAN SHEET FOR MORE INFORMATION.

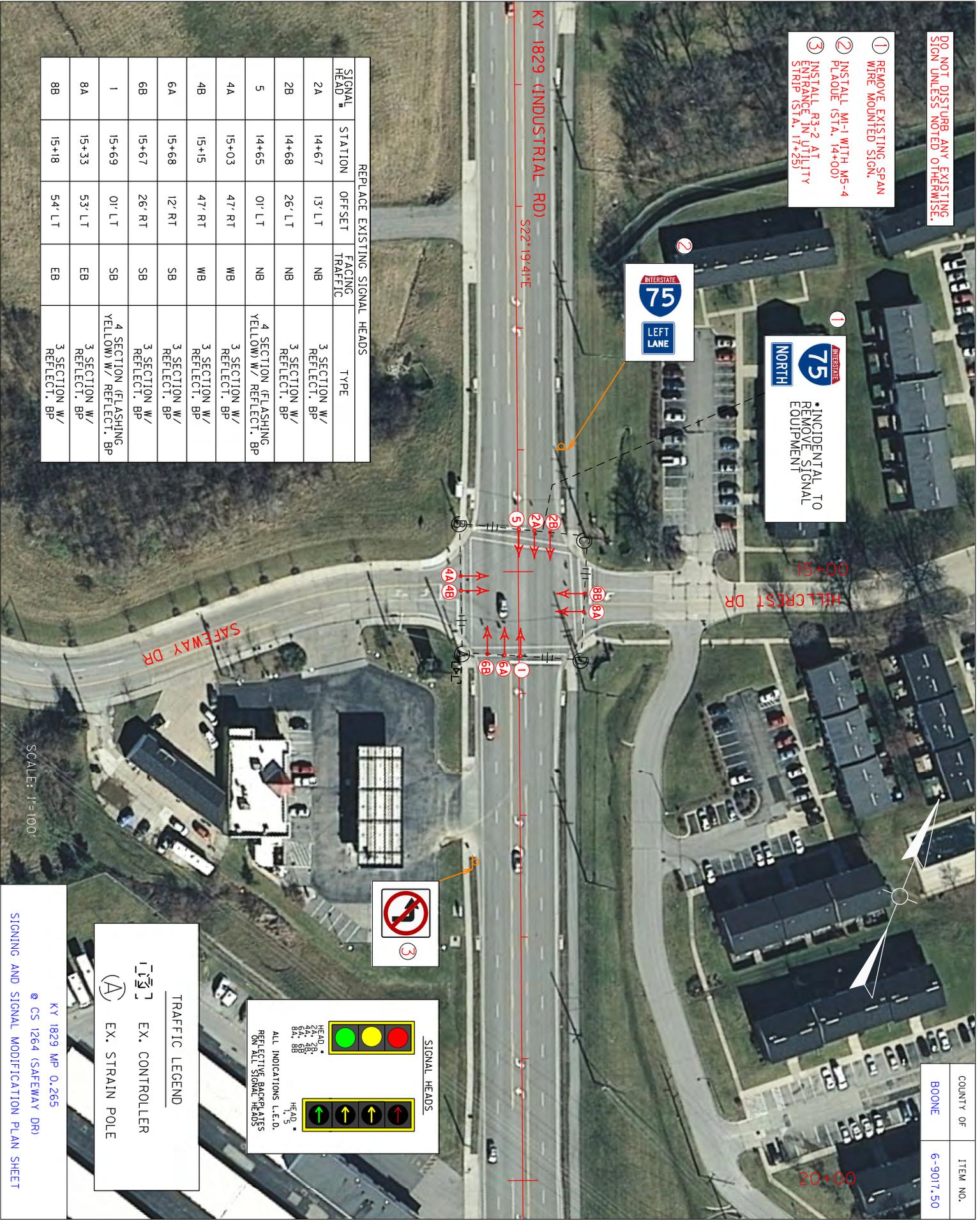
BOONE COUNTY KY 1829 (INDUSTRIAL RD) MP 0.265 @ CS 1264 (SAFEWAY DR) ITEM NO. 6-9017.50 REMOVE SIGN ON SPAN WIRE		
SPAN	SIGN SPECIFICATION	COMMENTS
B-C	M1-1, M3-1	INCIDENTAL TO REMOVE SIGNAL EQUIPMENT EXISTING SIGN ASSEMBLY IS MOUNTED ON SPAN WIRE B-C

DO NOT DISTURB ANY EXISTING SIGN UNLESS NOTED OTHERWISE.

- ① REMOVE EXISTING SPAN WIRE MOUNTED SIGN.
- ② INSTALL M-1 WITH M5-4 PLAQUE (STA. 14+00)
- ③ INSTALL R3-2 AT ENTRANCE IN UTILITY STRIP (STA. 17+25)

**INCIDENTAL TO REMOVE SIGNAL EQUIPMENT**

KY 1829 (INDUSTRIAL RD) S22°19'41"E



REPLACE EXISTING SIGNAL HEADS

SIGNAL HEAD #	STATION	OFFSET	FACING TRAFFIC	TYPE
2A	14+67	13' LT	NB	3 SECTION W/ REFLECT. BP
2B	14+68	26' LT	NB	3 SECTION W/ REFLECT. BP
5	14+65	01' LT	NB	4 SECTION (FLASHING YELLOW) W/ REFLECT. BP
4A	15+03	47' RT	WB	3 SECTION W/ REFLECT. BP
4B	15+15	47' RT	WB	3 SECTION W/ REFLECT. BP
6A	15+68	12' RT	SB	3 SECTION W/ REFLECT. BP
6B	15+67	26' RT	SB	3 SECTION W/ REFLECT. BP
1	15+69	01' LT	SB	4 SECTION (FLASHING YELLOW) W/ REFLECT. BP
8A	15+33	53' LT	EB	3 SECTION W/ REFLECT. BP
8B	15+18	54' LT	EB	3 SECTION W/ REFLECT. BP

**SIGNAL HEADS**

HEAD # 4A, 4B, 5A, 5B, 6A, 6B  
ALL INDICATIONS L.E.D.  
REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS

**TRAFFIC LEGEND**

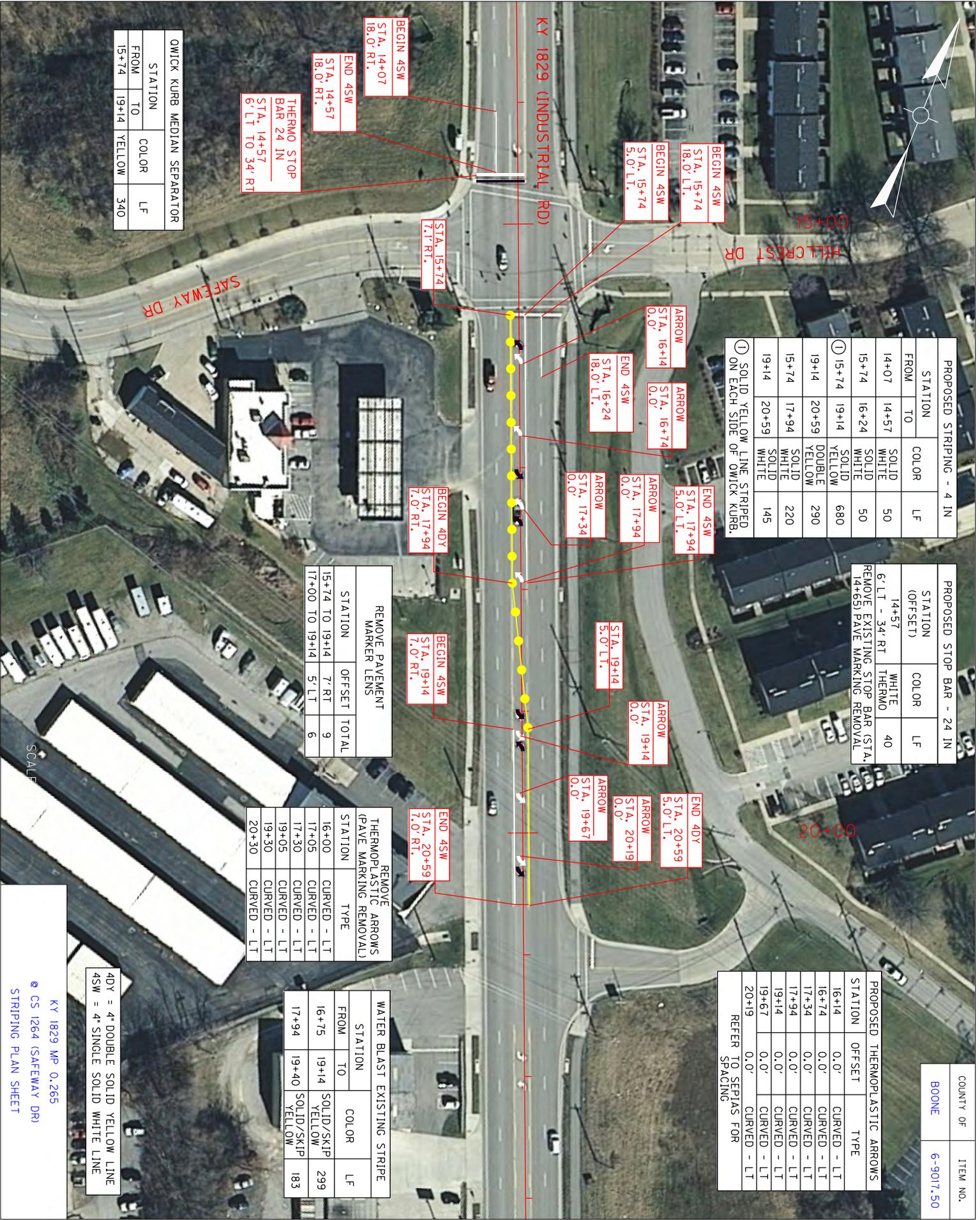
EX. CONTROLLER

EX. STRAIN POLE

KY 1829 MP 0.265  
© CS 1264 (SAFEMWAY DR)  
SIGNING AND SIGNAL MODIFICATION PLAN SHEET

SCALE: 1"=100'

COUNTY OF	BOONE
ITEM NO.	6-9017.50



PROPOSED STRIPING - 4 IN

STATION FROM	STATION TO	COLOR	LF
14+07	14+57	SOLID WHITE	50
15+74	16+24	SOLID WHITE	50
15+74	19+14	SOLID YELLOW	680
19+14	20+59	DOUBLE YELLOW	290
15+74	17+94	SOLID WHITE	220
19+14	20+59	SOLID WHITE	145

① SOLID YELLOW LINE STRIPED ON EACH SIDE OF OWICK KURB.

PROPOSED STOP BAR - 24 IN

STATION (OFFSET)	COLOR	LF
14+57 6' LT - 34' RT	WHITE THERMO	40

REMOVE EXISTING STOP BAR (STA. 14+65) PAVE MARKING REMOVAL.

PROPOSED THERMOPLASTIC ARROWS

STATION	OFFSET	TYPE
16+14	0.0'	CURVED - LT
16+74	0.0'	CURVED - LT
17+34	0.0'	CURVED - LT
17+94	0.0'	CURVED - LT
19+14	0.0'	CURVED - LT
19+67	0.0'	CURVED - LT
20+19	0.0'	CURVED - LT

REFER TO SEPIAS FOR SPACING

REMOVE PAVEMENT MARKER LENS

STATION	OFFSET	TOTAL
15+74 TO 19+14	7' RT	9
17+00 TO 19+14	5' LT	6

REMOVE THERMOPLASTIC ARROWS (PAVE MARKING REMOVAL)

STATION	TYPE
16+00	CURVED - LT
17+05	CURVED - LT
17+30	CURVED - LT
19+05	CURVED - LT
19+30	CURVED - LT
20+30	CURVED - LT

WATER BLAST EXISTING STRIPE

STATION FROM	STATION TO	COLOR	LF
16+75	19+14	SOLID/SKIP YELLOW	299
17+94	19+40	SOLID/SKIP YELLOW	183

OWICK KURB MEDIAN SEPARATOR

STATION FROM	STATION TO	COLOR	LF
15+74	19+14	YELLOW	340

4DY = 4" DOUBLE SOLID YELLOW LINE  
4SW = 4" SINGLE SOLID WHITE LINE

KY 1829 MP 0.265  
CS 1264 (SAFEBWAY DR)  
STRIPING PLAN SHEET

SCALE

Jeff Wolfe - Director

**DIVISION OF TRAFFIC OPERATIONS**

Phone (502) 564-3020  
FAX (502) 564-7759

**RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED  
ON TRAFFIC SIGNALS/LIGHTING**

Item Number: 6-9017.50

County: Boone

Description: KY 1998 and Safeway Dr. / Hillcrest Dr.  
All heads to have reflective backplates

**Cabinets Master code**

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

**Special items**

**Poles**

Electrical Contractor Name \_\_\_\_\_  
Electrical Contractor Supervisor \_\_\_\_\_  
Project Engineer \_\_\_\_\_

Contact number for Supervisor \_\_\_\_\_  
Contact number for Project Engineer \_\_\_\_\_

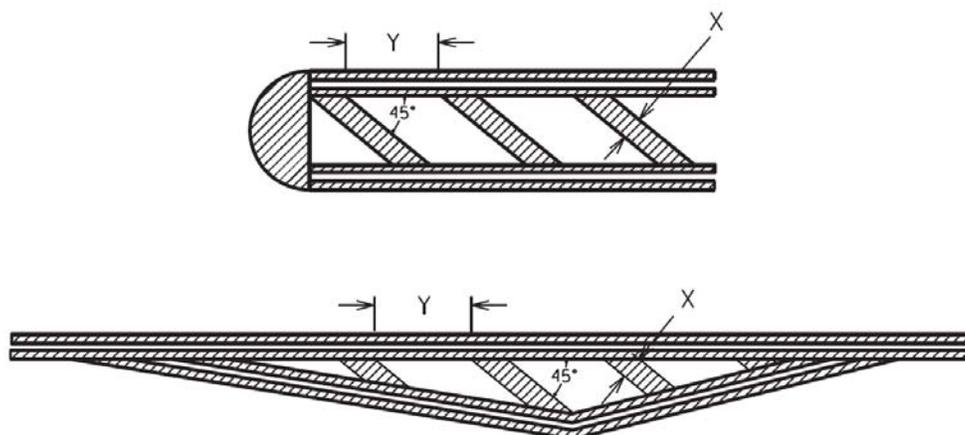
Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

Signature of Project Engineer or Designee \_\_\_\_\_

## CROSS-HATCH PAVEMENT MARKINGS DETAIL

---

### TYPICAL CROSS-HATCH MARKINGS



The cross-hatch pavement marking width (X) and spacing (Y) will usually be specified in the plans. The width to spacing values usually have a ratio of 1:10. If the plans do not specify the width (X) and spacing (Y) the Engineer will provide the contractor with the X and Y values for each cross-hatch installation. If necessary, the Engineer may obtain guidance from the District Traffic Engineer and/or the Division of Traffic Operations.

NOTE: Adjust the width and spacing of the cross-hatch pavement markings as necessary so that a minimum of three (3) cross-hatch markings are placed within the area being marked. The 1:10 ratio between width and spacing values should be maintained as much as possible.

Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

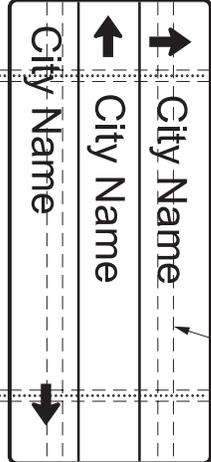
The Department will measure the finished in-place area of Cross-Hatch Pavement Markings in Square Feet. The Department will NOT measure overlaps or the void space between cross-hatching. See Section 717.04 for additional measurement information.

When listed in the bid items, the Department will make payment for the completed and accepted quantities of Cross-Hatch Pavement Markings under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
06569	Pave Marking-Thermo Cross-Hatch	Square Foot
23253ES717	Pave Mark TY 1 Tape Cross Hatch	Square Foot



COUNTY OF	ITEM NO.	SHEET NO.



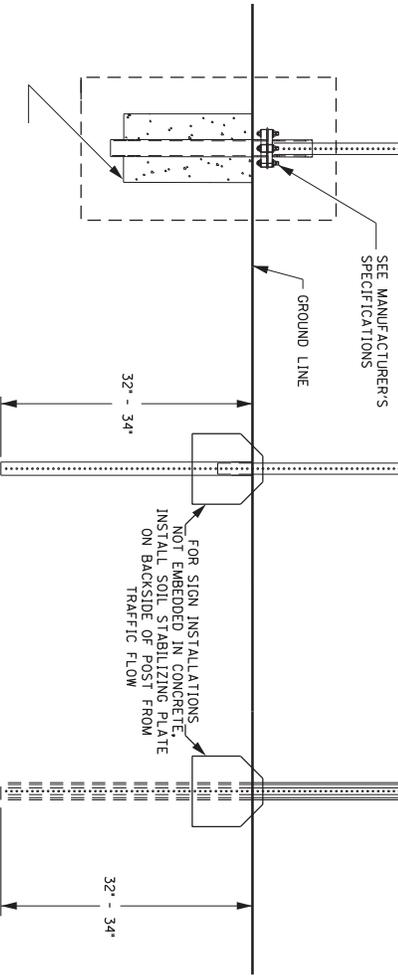
SEE SHEETING SIGN DETAIL SHEET 2 OF 2 FOR BRACING REQUIREMENTS

NOTE: SEE SIGN DETAIL SHEETS FOR QUANTITY, LENGTH, SIZE AND GAUGE OF TYPE I POSTS

PLAN VIEW  
NOT TO SCALE

PLAN VIEW  
NOT TO SCALE

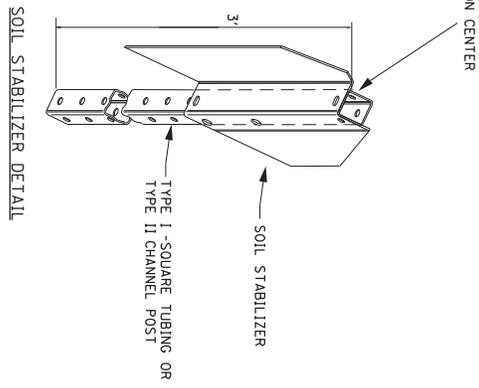
PLAN VIEW  
NOT TO SCALE



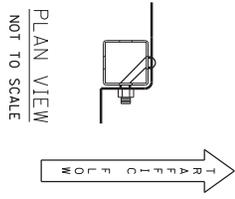
TYPE J  
SQUARE TUBING POST  
WITH TYPE "D" SUPPORT

TYPE J  
SQUARE TUBING POST  
WITH SOIL STABILIZER

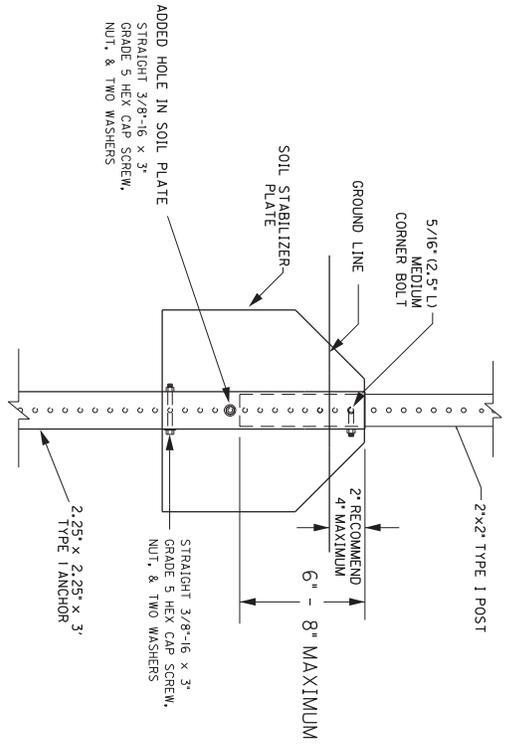
TYPE II  
CHANNEL POST  
WITH SOIL STABILIZER



SOIL STABILIZER DETAIL



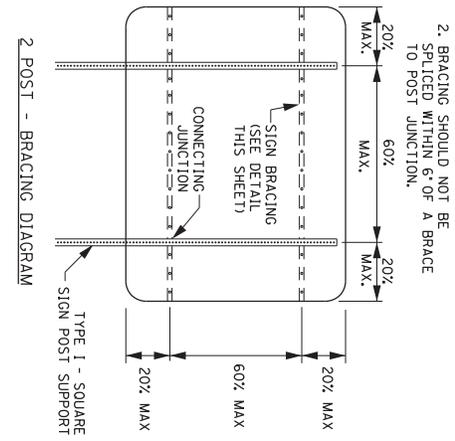
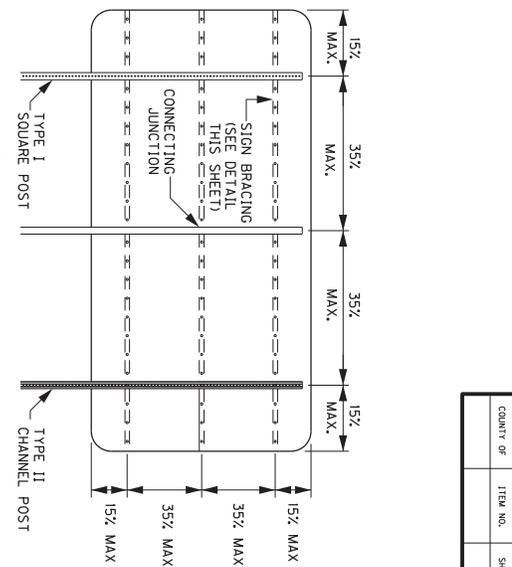
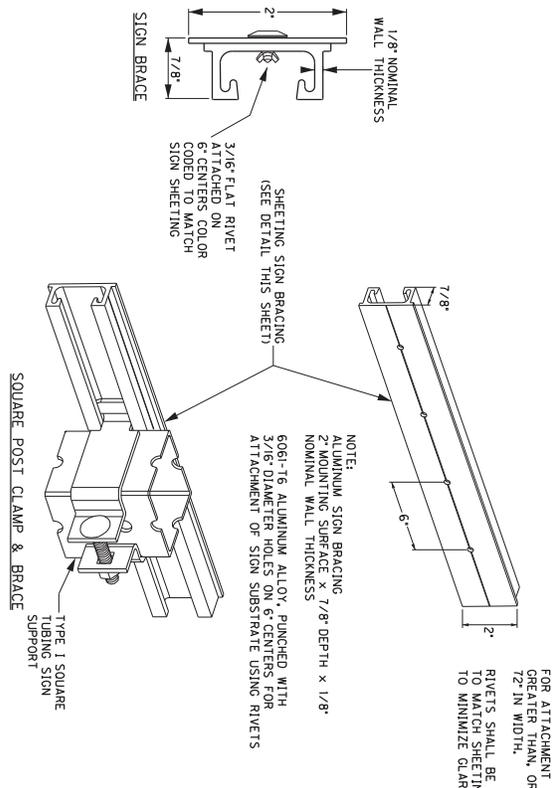
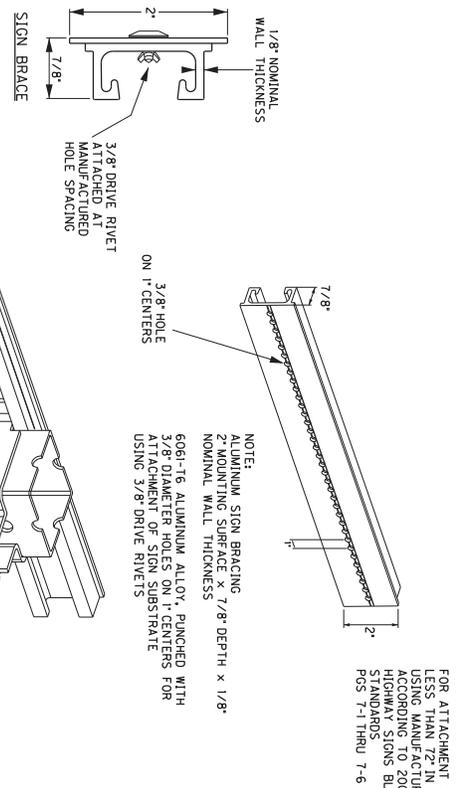
PLAN VIEW  
NOT TO SCALE



SOIL STABILIZER DETAIL  
FOR TYPE I POST

NOT TO SCALE

SHEETING SIGN DETAIL  
SHEET 1 OF 2



NOTE:  
USE OF SIGN BRACING NOT SHOWN ON THIS SHEET MAY BE PERMITTED BY PROJECT ENGINEER AND/OR DISTRICT TRAFFIC ENGINEER.

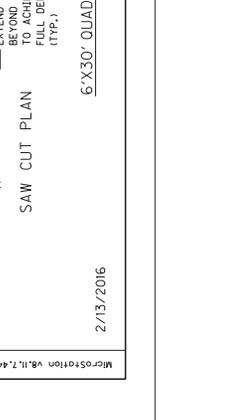
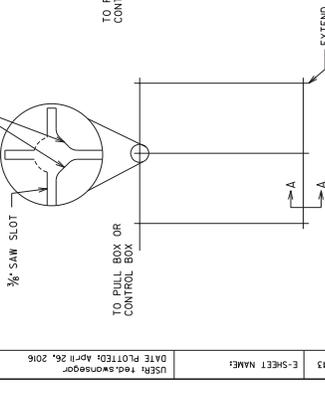
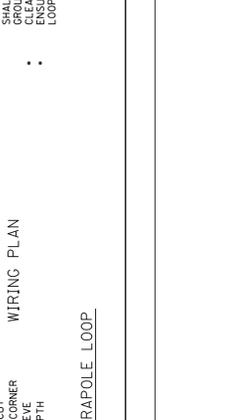
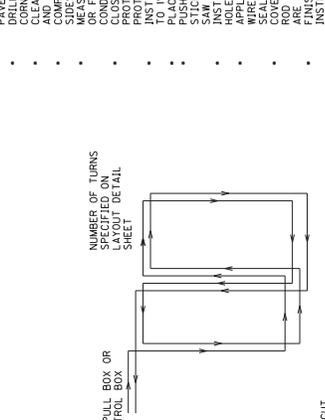
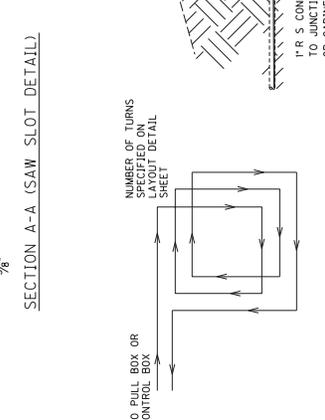
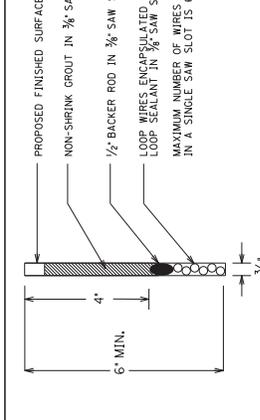
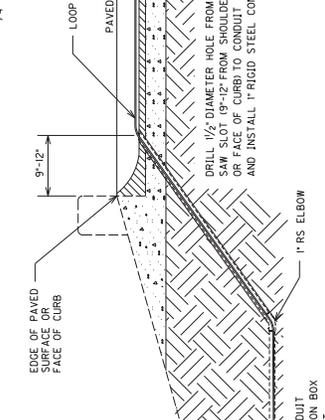
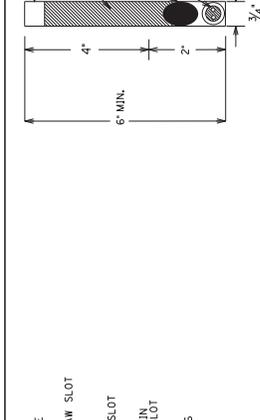
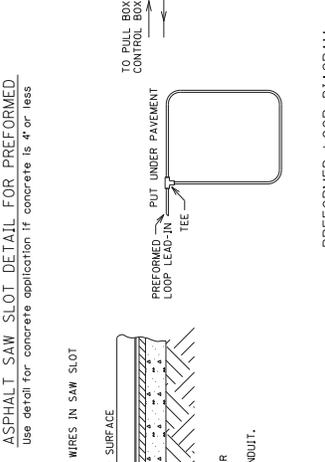
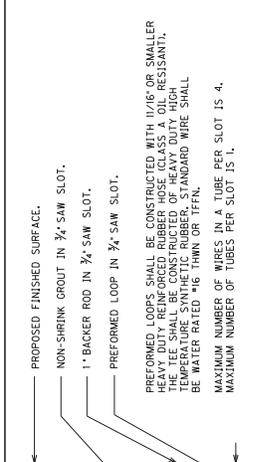
NOT TO SCALE

SHEETING SIGN DETAIL  
SHEET 2 OF 2

COUNTY OF	ITEM NO.	SHEET NO.



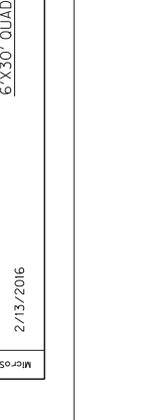
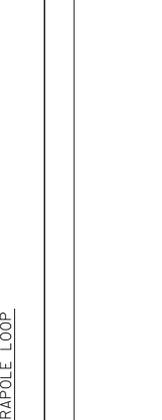
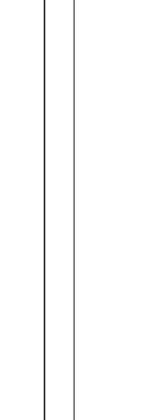
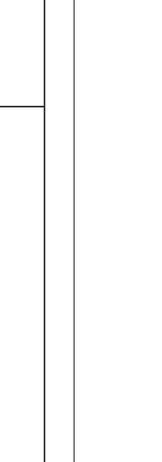
COUNTY OF	ITEM NO.	SHEET NO.



**CONSTRUCTION DETAILS FOR LOOP SAW SLOT AND FILL BID ITEM:**

- CAREFULLY MARK THE SLOT TO BE CUT, PERPENDICULAR TO THE FLOW OF TRAFFIC. THE SLOT SHALL BE 3/4" WIDE AND AT A DEPTH SUCH THAT THE TOP OF THE BACKER ROD IS A MINIMUM OF 4 INCHES BELOW THE SURFACE OF ASPHALT PAVEMENT.
- DRILL 1/2" CORE HOLE AT EACH CORNER AND USE A CHISEL TO SMOOTH CORNERS TO PREVENT SHARP BENDS IN THE WIRE.
- CLEAN ALL FOREIGN AND LOOSE MATTER OUT OF THE SLOTS; DRILLED CORES, CORES, AND SLOTS FOR WIRE WASHERS SHALL BE CLEANED WITH A WIRE BRUSH AND COMPLETELY DRY THE SLOTS; DRILLED CORES, AND WITHIN 1 FOOT ON ALL SIDES OF THE SLOTS.
- MEASURE 9-12 INCHES FROM THE EDGE OF THE PAVED SURFACE (SHOULDER BREAK CONDUIT ADJACENT TO THE ROADWAY).
- CLOSELY INSPECT ALL CUTS, CORES, AND SLOTS FOR JAGGED EDGES OR PROTRUSIONS. ALL CUTS, CORES, AND SLOTS FOR WIRE WASHERS AND PROTRUSIONS SHALL BE GROUND OR RE-CUT AND CLEANED AGAIN.
- INSTALL 1" RIGID STEEL CONDUIT IN 45 DEGREE DRILLED SLOT. CONNECT CONDUIT TO 1" RIGID STEEL CONDUIT ADJACENT TO THE ROADWAY WITH RIGID STEEL ELBOW.
- PUSH THE WIRE INTO THE SAW SLOT WITH A BLUNT OBJECT SUCH AS A WOODEN STICK. MAKE SURE THAT THE LOOP WIRE IS PUSHED FULLY TO THE BOTTOM OF THE SAW SLOT. THE WIRE SHOULD NOT BE ABLE TO MOVE WHEN THE LOOP IS FULLY IN THE SAW SLOT.
- INSTALL DUCT SEALANT TO A MINIMUM OF 1 INCH DEEP INTO THE CORED 1/2" HOLE.
- APPLY LOOP SEALANT FROM THE BOTTOM UP AND FULLY ENCAPSULATE THE LOOP SEALANT HAS SET.
- COVER THE ENCAPSULATED LOOP WIRE WITH A CONTINUOUS LAYER OF BACKER ROD. THE BACKER ROD SHALL BE 1/2" THICK AND 1/4" DIA. WHICH NO VOIDS ARE PRESENT BETWEEN THE LOOP SEALANT AND BACKER ROD.
- FINISH FILLING THE SAW CUT WITH NON-SHRINKABLE GROUT PER MANUFACTURER'S INSTRUCTIONS. ALLEVATE ALL AIR POCKETS, AND REFILL LOW SPACES. THERE SHALL BE NO GROUT OVERFLOWING THE SAW CUT.
- EXCESS GROUT SHALL BE CLEANED FROM THE ROADWAY TO ALLEVATE TRACKING.
- CLEAN UP THE SITE AND DISPOSE OF ALL WASTE OFF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SURFACE OF THE LOOP TO TRAFFIC DURING THE WIRE WITH TEMPERATURE AND HUMIDITY.

COUNTY OF	ITEM NO.	SHEET NO.



COUNTY OF	ITEM NO.	SHEET NO.

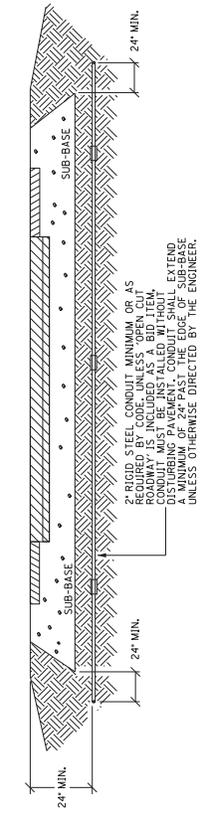
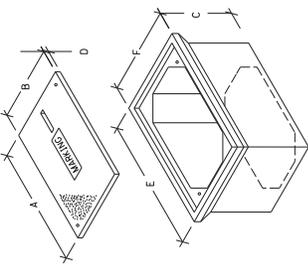




SHEET NO.	ITEM NO.	COUNTY OF

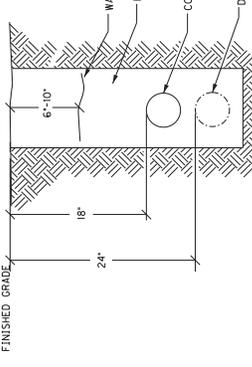
JUNCTION BOX DIMENSIONS (NOMINAL)						
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1 1/4"	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

\* MINIMUM  
NOTES: STACKABLE BOXES ARE PERMITTED  
JUNCTION BOX



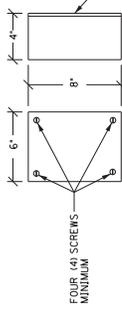
**CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL**

DEPTHS SHOWN FOR CONDUIT AND CONDUIT INSTALLATION SHALL BE AS REQUIRED BY CODE. UNLESS OTHERWISE SPECIFIED, ALL CONDUIT SHALL BE 1/2\"/>

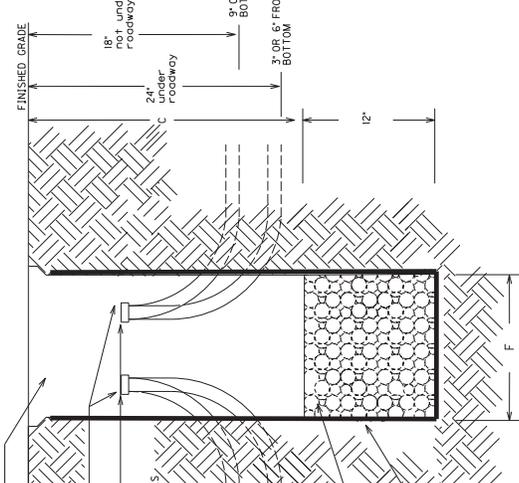
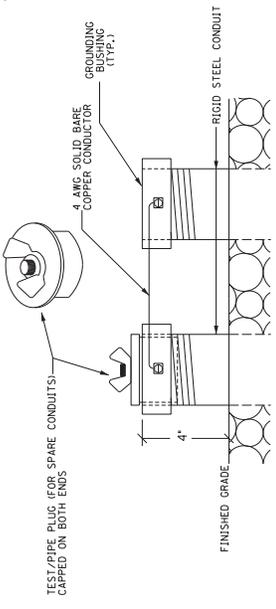


**CONDUIT, DUCTED CABLE, AND WARNING TAPE TRENCH**

ABOVE GROUND BOX SHALL BE FABRICATED FROM MINIMUM 1/2\"/>

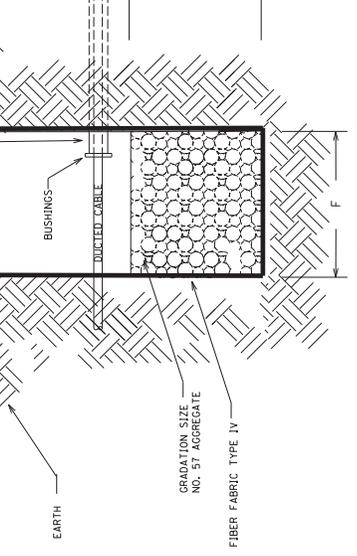
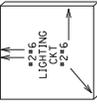


**ABOVE GROUND BOX**



**JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING**

BEFORE THE INSTALLATION OF THE #57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL AND JUNCTION BOX - FIBER FABRIC TYPE IV. THE FABRIC SHALL EXTEND TO JUST BELOW THE LIP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY FABRIC SHALL BE CUT ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH THE FABRIC. THE FABRIC SHALL BE INCIDENTAL TO BID ITEMS 48H, 2039NS835, OR 2039NS835.



**JUNCTION BOX INSTALLATION FOR HIGHMAST LIGHTING**

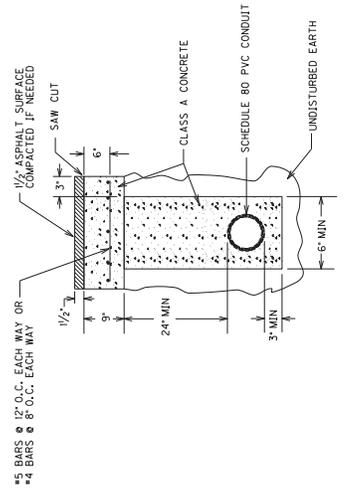
CONDUCTOR INSTALLATIONS - CONDUIT SHALL BE EXPOSED 4\"/>



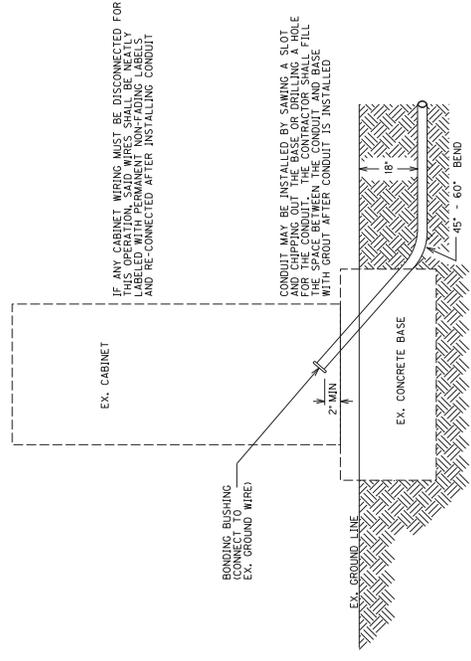
**TEST PIPE PLUG (FOR SPARE CONDUITS) AND GROUNDING DETAIL CONCRETE CABLE MARKERS**

3/13/2017

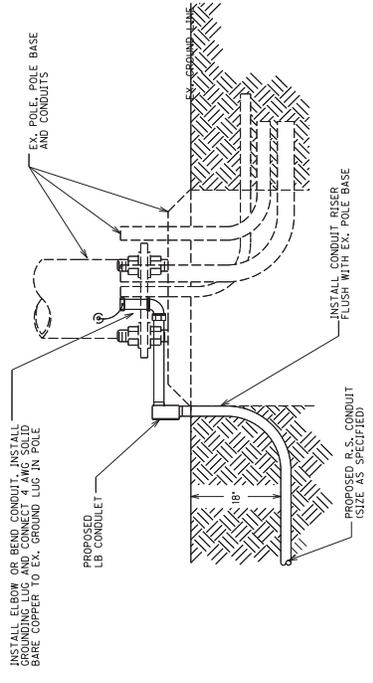
COUNTY OF	SHEET NO.
ITEM NO.	



OPEN CUT PAVEMENT DETAIL



CONDUIT INSTALLATION IN EX. CABINET BASE



CONDUIT INSTALLATION IN EX. POLE BASE

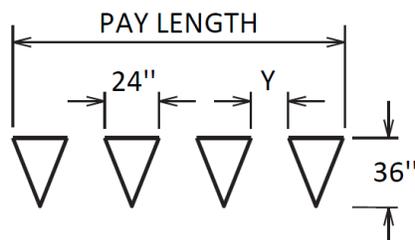
3/10/2017

CONDUIT INSTALLATIONS IN EXISTING LOCATIONS

## YIELD BAR PAVEMENT MARKING DETAIL

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### YIELD BAR DETAILS



NOTE: SPACING (Y) BETWEEN  
 TRIANGLES SHOULD BE 3" - 12"

Triangles should be evenly spaced. The spacing (Y) between triangles will depend on the width of the lane the yield bar is for. Unless otherwise directed by the Engineer, space the triangles according to the lane width as follows:

<u>Lane Width</u>	<u># of Triangles</u>	<u>Spacing (Y)</u>
20'	7	9"

Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

The Department will measure Yield Bars in Linear Feet. The measurement will include the void space between triangles. See Section 717.04 for additional measurement information.

The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
22520EN	Pave Marking-Thermo Yield Bar-36 Inch	Linear Foot

## **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 2016*.

## **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>

### SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

**1.0 DESCRIPTION.** Install barcode label on sheeting signs. Section references herein are to the Department’s Standard Specifications for Road and Bridge Construction, current edition.

**2.0 MATERIALS.** The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sheeting sign. A unique number will be assigned to each barcode label.

The Contractor shall contact the Operations and Pavement Management Branch in the Division of Maintenance at (502) 564-4556 to obtain the barcode labels.

**3.0 CONSTRUCTION.** Apply foil barcode label in the lower right quadrant of the sign back. Signs where the bottom edge is not parallel to the ground, the lowest corner of the sign shall serve as the location to place the barcode label. The barcode label shall be placed no less than one-inch and no more than three inches from any edge of the sign. The barcode must be placed so that the sign post does not cover the barcode label.

Barcodes shall be applied in an indoor setting with a minimum air temperature of 50°F or higher. Prior to application of the barcode label, the back of the sign must be clean and free of dust, oil, etc. If the sign is not clean, an alcohol swab shall be used to clean the area. The area must be allowed to dry prior to placement of the barcode label.

Data for each sign shall include the barcode number, MUTCD reference number, sheeting manufacturer, sheeting type, manufacture date, color of primary reflective surface, installation date, latitude and longitude using the North American Datum of 1983 (NAD83) or the State Plane Coordinates using an x and y ordinate of the installed location.

Data should be provided electronically on the TC 71-229 Sign Details Information and TC 71-230 Sign Assembly Information forms. The Contractor may choose to present the data in a different format provided that the information submitted to the Department is equivalent to the information required on the Department TC forms. The forms must be submitted in electronic format regardless of which type of form is used. The Department will not accept PDF or handwritten forms. These completed forms must be submitted to the Department prior to final inspection of the signs. The Department will not issue formal acceptance for the project until the TC 71-229 and TC-230 electronic forms are completed for all signs and sign assemblies on the project.

**4.0 MEASUREMENT.** The Department will measure all work required for the installation of the barcode label and all work associated with completion and submission of the sign inventory data (TC 71-229 and TC 71-230).

The installation of the permanent sign will be measured in accordance to Section 715.

**5.0 PAYMENT.** The Department will make payment for the completed and accepted quantities under the following:

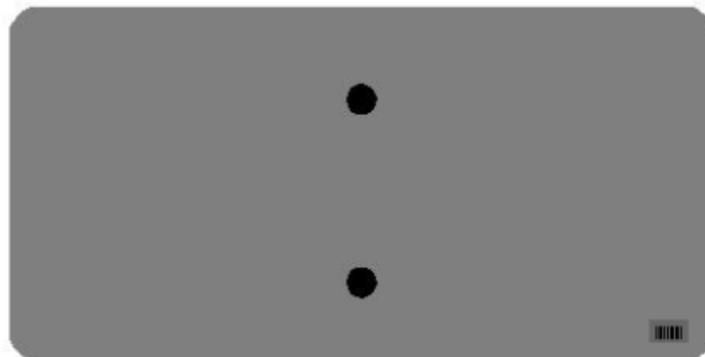
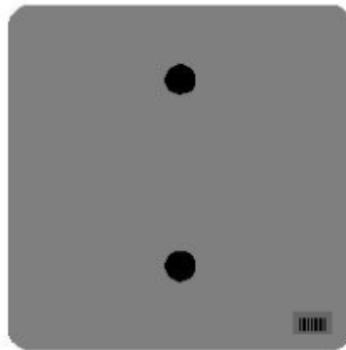
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24631EC	Barcode Sign Inventory	Each

The Department will not make payment for this item until all barcodes are installed and sign inventory is complete on every permanent sign installed on the project. The Department will make payment for installation of the permanent sign in accordance to Section 715. The Department will consider payment as full compensation for all work required under this special note.

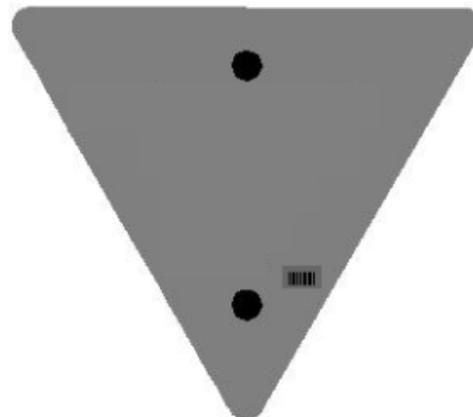
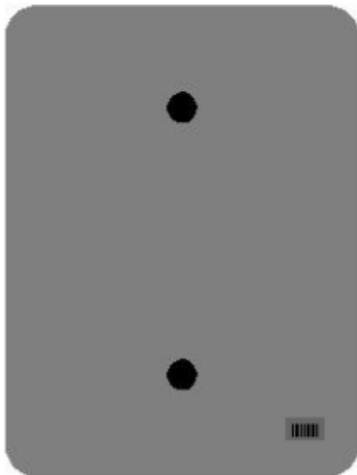
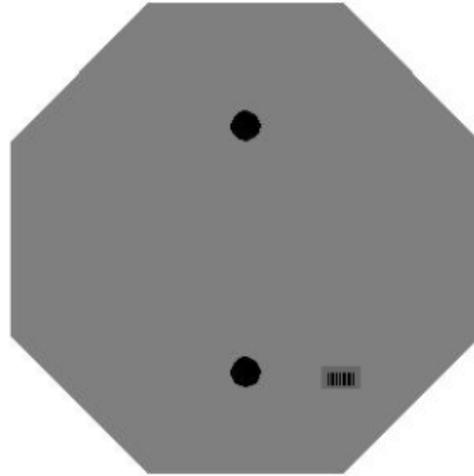
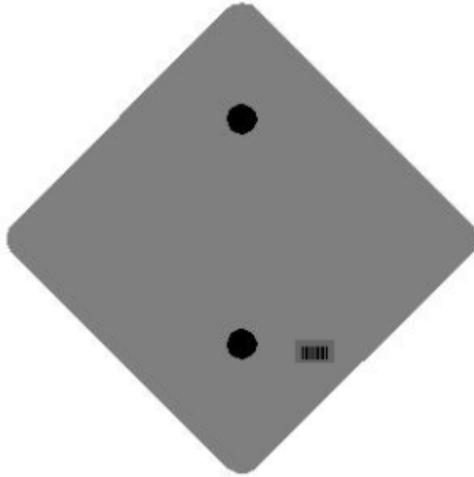
### One Sign Post



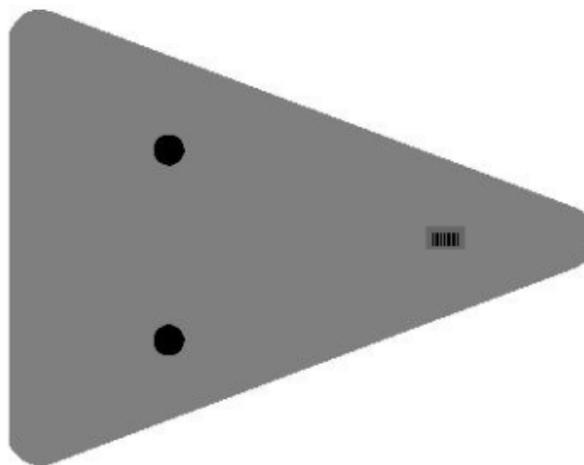
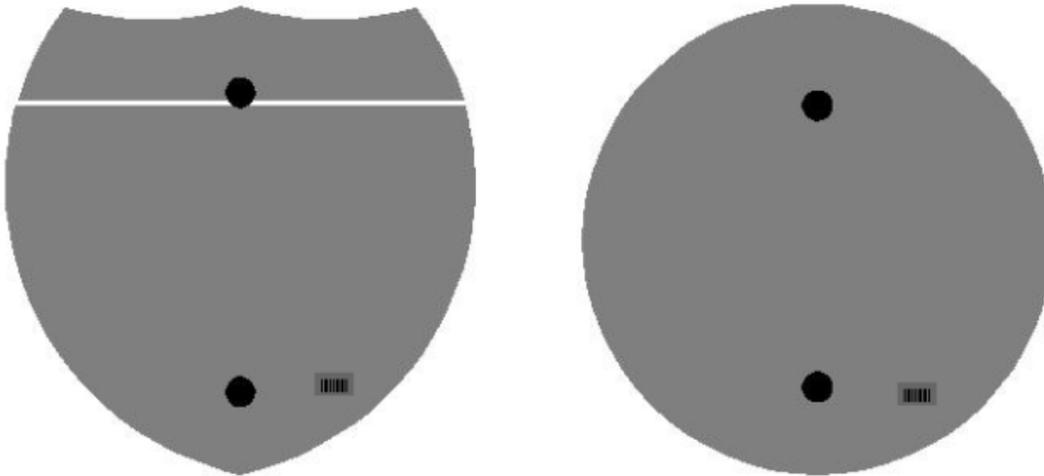
↑  
2" Wide Post



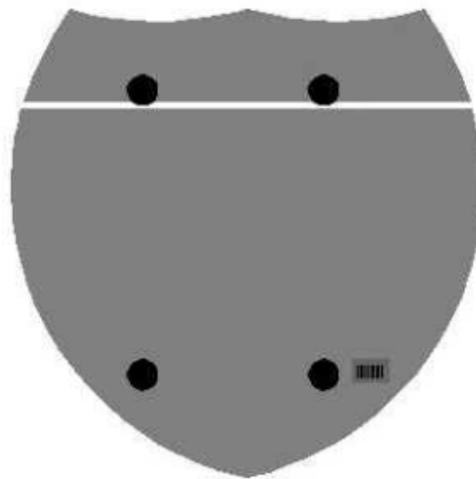
### One Sign Post



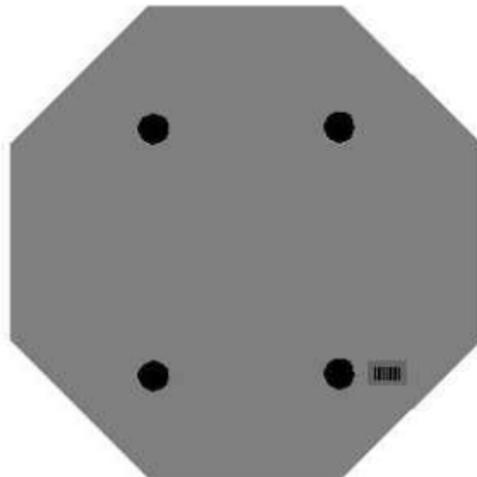
### One Sign Post



### Double Sign Post



Interstate  
Shield

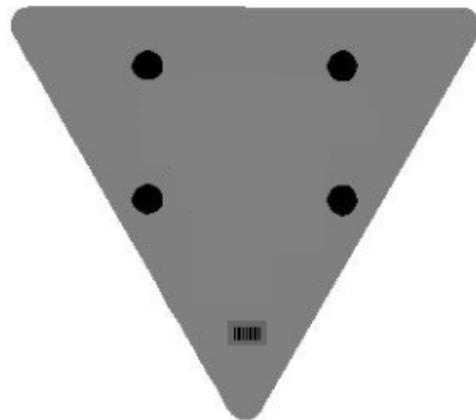


48" Stop

### 2 Post Signs



↑  
2" Wide Post



## 2016 STANDARD DRAWINGS THAT APPLY

### ROADWAY ~ BARRIERS ~

#### TYPICAL BARRIER INSTALLATIONS

TYPICAL GUARDRAIL INSTALLATIONS .....	SEPIA-024
TYPICAL GUARDRAIL INSTALLATIONS .....	RBI-002-07

#### GUARDRAIL HARDWARE

STEEL BEAM GUARDRAIL (W-BEAM) .....	SEPIA-027
GUARDRAIL COMPONENTS .....	RBR-005-11
STEEL GUARDRAIL POSTS .....	SEPIA-028
DELINEATORS FOR GUARDRAIL .....	SEPIA-032
GUARDRAIL HEIGHT TRANSITION DETAIL .....	SEPIA-033

### ~ DRAINAGE ~

#### BOX INLETS AND OUTLETS

##### CURB BOXES

CURB BOX INLET TYPE A (DETAIL DRAWING) .....	RDB-270-09
CURB BOX INLET TYPE A (STEEL DRAWING) .....	RDB-271-05
CURB BOX INLET TYPE A (TOP PHASE TABLES) .....	RDB-272-07
CURB BOX INLET TYPE A (DETAIL & BAR CHART FOR 8" LID) .....	RDB-273-06

#### PAVED DITCHES, FLUME INLETS AND CHANNEL LININGS

FLUME INLET TYPE 2 .....	RDD-021-07
CHANNEL LINING CLASS II AND III .....	RDD-040-05

#### TYPICAL DRAINAGE INSTALLATIONS

CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (12" - 24" PIPE) .....	RDI-001-10
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER PIPE .....	RDI-020-09
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER, REINFORCED CONC. PIPE .....	RDI-021-01
PIPE BEDDING, TRENCH CONDITION .....	RDI-025-05
PIPE BEDDING, TRENCH CONDITION, REINFORCED CONC. PIPE .....	RDI-026-01
EROSION CONTROL BLANKET SLOPE INSTALLATION .....	RDI-040-01

#### PERFORATED PIPE

PERFORATED PIPE TYPES AND COVER HEIGHTS .....	RDP-001-06
PERFORATED PIPE FOR SUBGRADE DRAINAGE ON TWO-LANE (CLASS 2) AND MULTI-LANE ROADS .....	RDP-005-05
PERFORATED PIPE UNDERDRAINS (LONGITUDINAL AND TRANSVERSE) .....	RDP-006-04
PERFORATED PIPE DETAILS (SOLID ROCK) .....	RDP-007-04
PERFORATED PIPE HEADWALLS .....	RDP-010-09

#### MISCELLANEOUS DRAINAGE

TEMPORARY SILT FENCE .....	RDX-210-03
TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC .....	RDX-215-01
SILT TRAP - TYPE A .....	RDX-220-05
SILT TRAP - TYPE B .....	RDX-225-01
SILT TRAP - TYPE C .....	RDX-230-01

Standard Drawings That Apply  
Page 2 of 2

**~ PAVEMENT ~**

**MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.**

STANDARD BARRIER MEDIAN .....	RPM-010-06
CURB AND GUTTER, CURBS AND VALLEY GUTTER .....	RPM-100-10
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT .....	RPM-110-07

**TRAFFIC**

**~ PERMANENT ~**

**RAISED PAVEMENT MARKERS**

SHOULDER & EDGELINE RUMBLE STRIP DETAILS .....	SEPIA-005
RUMBLE STRIP DETAILS MULTI-LANE ROADWAYS AND RAMPS .....	SEPIA-008
FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR HORIZONTAL CURVES .....	TPM-170
FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR INTERCHANGE RAMPS AND CROSSOVERS .....	TPM-171

**~ TEMPORARY ~**

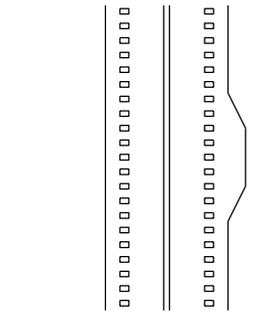
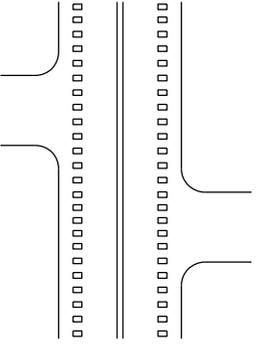
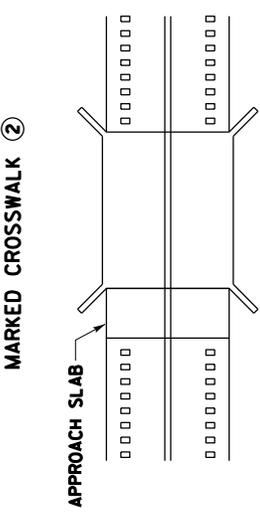
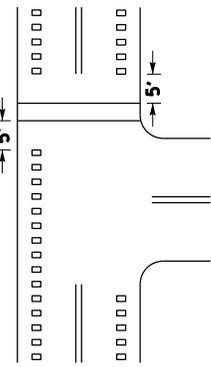
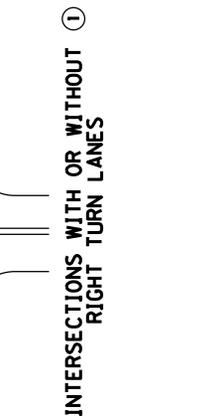
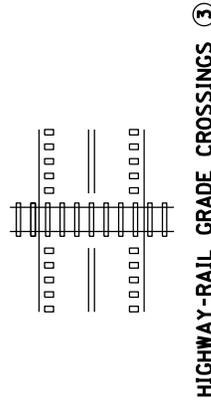
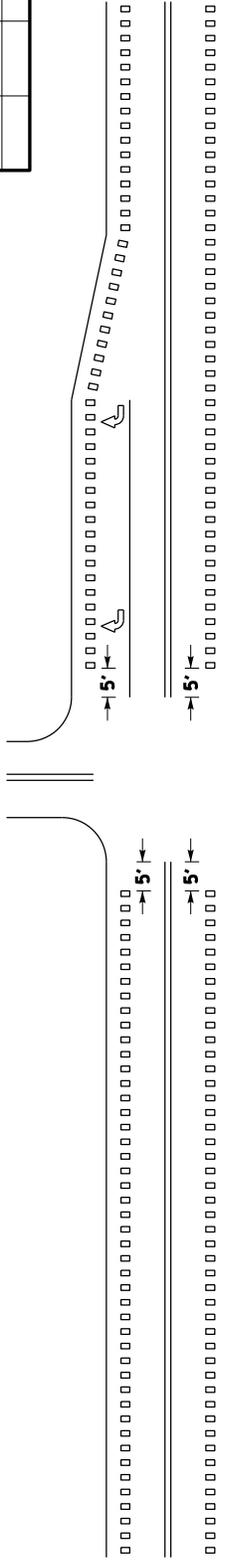
**TRAFFIC CONTROL**

LANE CLOSURE MULTI-LANE HIGHWAY CASE I .....	TTC-115-03
SHOULDER CLOSURE .....	TTC-135-02

**STRIPING OPERATIONS**

MOBILE OPERATION FOR PAINT STRIPING CASE IV .....	TTS-115-02
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COUNTY OF	TOWNSHIP	SHEET NO.



~ NOTES ~

- ① RUMBLE STRIPS SHALL BE OMITTED THROUGH MAJOR INTERSECTIONS WITH, OR WITHOUT, RIGHT-TURN LANES. OMIT RUMBLE STRIPS APPROXIMATELY 5' IN ADVANCE OF THE AREA WHERE EDGELINE PAVEMENT MARKINGS HAVE BEEN OMITTED (NORMALLY WHERE SIDE STREET RADIUS INTERSECTS MAINLINE).
- ② RUMBLE STRIPS SHALL NOT BE INSTALLED THROUGH MARKED CROSSWALKS. OMIT RUMBLE STRIPS APPROXIMATELY 5' IN ADVANCE OF MARKED CROSSWALKS.
- ③ RUMBLE STRIPS SHALL NOT BE INSTALLED ACROSS HIGHWAY-RAIL GRADE CROSSINGS.
- ④ RUMBLE STRIPS SHALL NOT BE INSTALLED ON BRIDGE DECKS OR APPROACH SLABS.
- ⑤ RUMBLE STRIPS SHALL BE INSTALLED THROUGH DRIVEWAYS & MINOR COMMERCIAL ENTRANCES.
- ⑥ RUMBLE STRIPS SHALL BE INSTALLED THROUGH MAILBOX TURNOUTS.
7. RUMBLE STRIPS SHOULD BE OMITTED WHERE THE POSTED SPEED LIMIT IS 45 MPH OR LESS.

DRAWING NOT TO SCALE

USE WITH SEPIA 006, 007, AND 008

KENTUCKY  
DEPARTMENT OF HIGHWAYS  
**SHOULDER & EDGELINE  
RUMBLE STRIP DETAILS**

SUBMITTED: *B. [Signature]* DATE: 11-23-16  
005

BID ITEMS AND UNIT TO BID  
EDGELINE RUMBLE STRIPS  
SHOULDER RUMBLE STRIPS

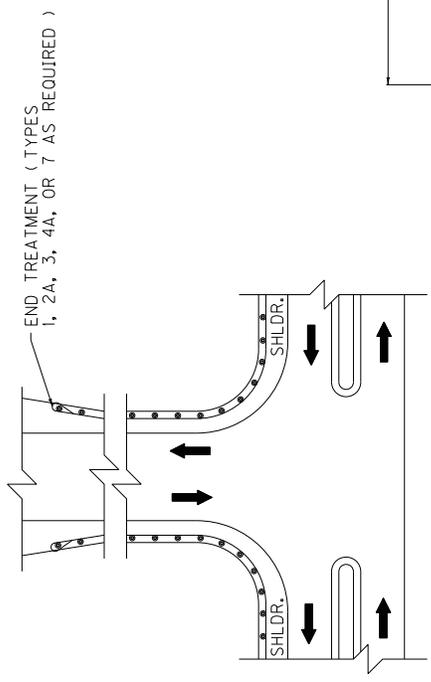
LF  
LF



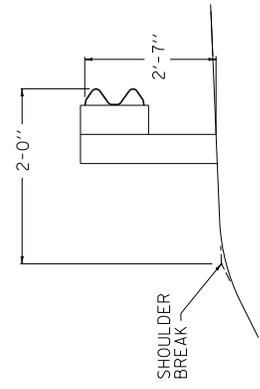
COUNTY OF	TITLING	SHEET NO.

~ NOTES ~

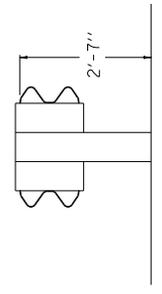
1. FOR END TREATMENT TYPE 4A USE CUR. STD. DWG. RBR-035 FOR OFFSETS.
2. THE MINIMUM LENGTH OF GUARDRAIL, INCLUDING THE END TREATMENT, PRECEDING A FIXED OBJECT IS 200 FEET: (LENGTH MAY BE REDUCED SHOULD FIELD CONDITIONS WARRANT).



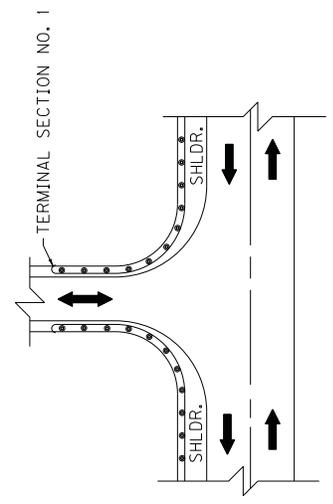
APPROACH ROADS



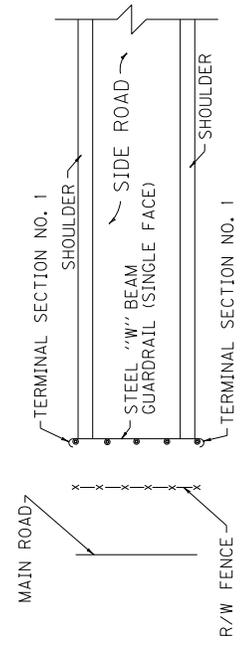
NORMAL GUARDRAIL INSTALLATION



TYPICAL DOUBLE FACE GUARDRAIL INSTALLATION



ENTRANCES



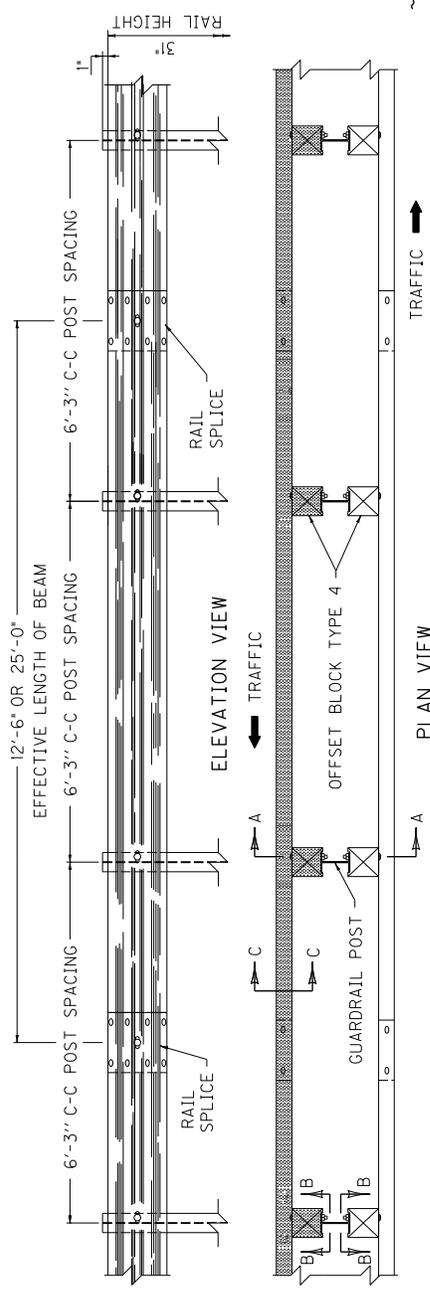
GUARDRAIL USED AS A BARRICADE

USE WITH CUR. STD. DWG.  
 RBR-002, RBR-035

**KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 TYPICAL GUARDRAIL  
 INSTALLATIONS

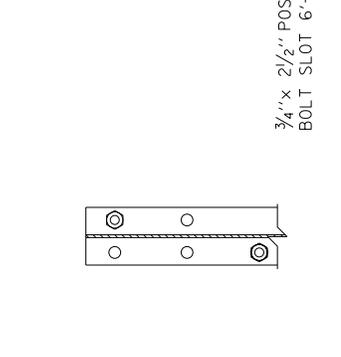
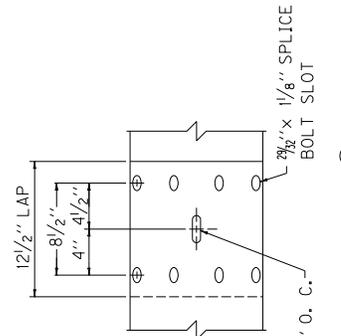
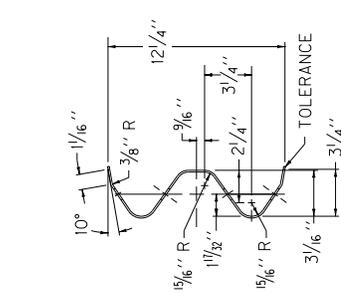
SUBMITTED: *[Signature]*  
 DIRECTOR DIVISION OF DESIGN  
 DATE: 11-17-17  
 024

COUNTY OF	ITEM NO.	SHEET NO.



NOTES ~

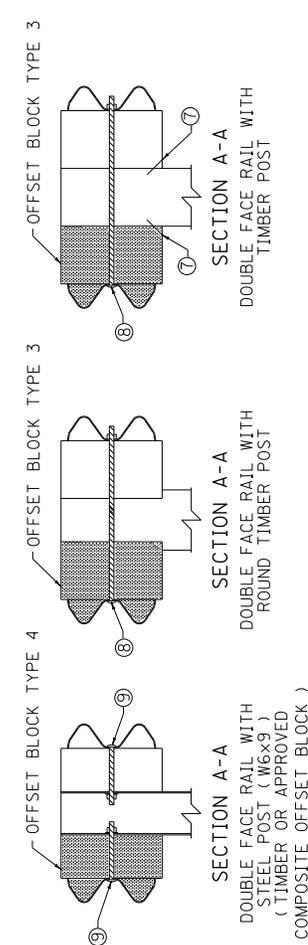
- BID ITEM AND UNIT TO BID  
GUARDRAIL - STEEL W BEAM-S FACE OR LF
- GUARDRAIL - STEEL W BEAM-D FACE LF
- DIMENSIONAL TOLERANCES NOT SHOWN OR IMPLIED ARE INTENDED TO BE THOSE CONSISTENT WITH THE PROPER FUNCTIONING OF THE PART, INCLUDING ITS APPEARANCE AND ACCEPTED MANUFACTURING PRACTICES.
- THE RAIL ELEMENT SHALL COMPLY WITH AASHTO M-180 - CLASS A, TYPE II.
- ALL LAPS SHALL BE PLACED IN THE DIRECTION OF TRAFFIC FLOW.
- TOLERANCE + 1/4", -1/4"
- 8-5/8" x 1/4" LONG BUTTON HEAD BOLTS AND HEX HEAD RECESS NUTS REQUIRED FOR EACH RAIL SPLICE.
- LENGTH EQUALS POST AND BLOCK WIDTH PLUS 2" FOR BOLT OR 2 1/4" FOR THREADED ROD.
- GALVANIZED STEEL 104 COMMON COATED NAIL (DRIVE NAIL AT THE TOP OR BOTTOM CENTER OF BLOCK AND POST AFTER BOLT IS INSTALLED).
- 5/8" x 6" STEEL THREADED ROD AND TWO (2) HEX HEAD NUTS OR 5/8" x 6" BUTTON OR HEX HEAD BOLT AND HEX HEAD NUT.
- 5/8" x 8" BUTTON HEAD BOLT, HEX HEAD RECESS NUT AND ONE 3/8" ROUND WASHER (TYP.). BOLT SHALL HAVE A MINIMUM THREAD LENGTH OF 2".
- REQUIRED FOR DOUBLE RAIL
- BOTH 12'-6" AND 25' LENGTHS OF "W" BEAM GUARDRAIL SECTIONS WILL BE PERMITTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



SECTION C-C  
(RAIL CORRUGATED SHEET STEEL BEAM)

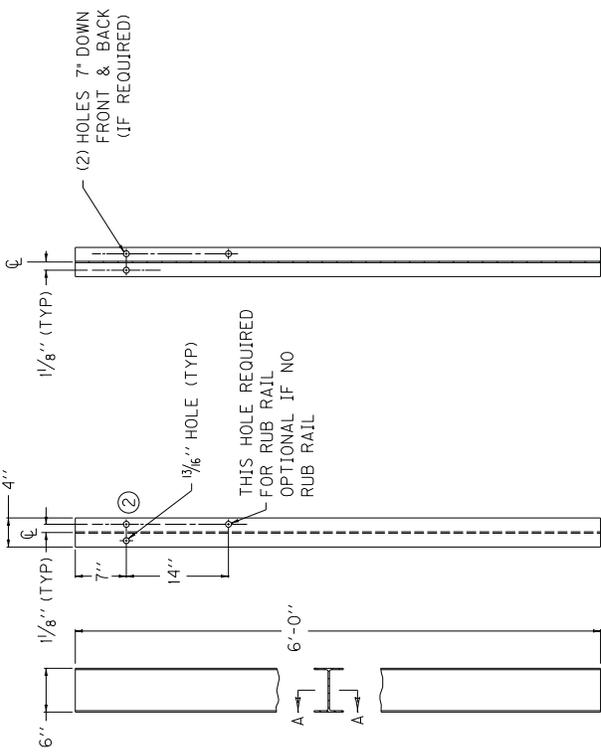
RAIL SPLICE (5)

SECTION B-B



<b>KENTUCKY</b>	
<b>DEPARTMENT OF HIGHWAYS</b>	
STEEL BEAM	
GUARDRAIL	
( "W" BEAM )	
SUBMITTED: <i>Robert P. Schell</i> DIRECTOR DIVISION OF DESIGN 11-17-17 DATE 027	

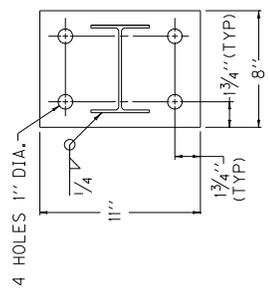
COUNTY OF	_____
ITEM NO.	_____
SHEET NO.	_____



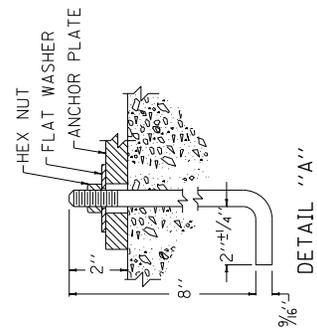
SECTION A-A  
 FRONT VIEW  
 SIDE VIEW

~ W6 X 9.0 STEEL POST ① ~

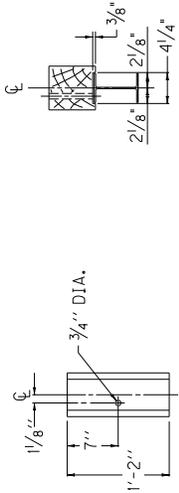
- ~ NOTES ~
- ① W6 X 8.5 IS AN ACCEPTABLE ALTERNATE.
  - ② THESE HOLES ARE REQUIRED FOR ATTACHING RAIL.
  - ③ TIMBER OR COMPOSITE BLOCKOUTS MAY BE USED WITH STEEL POST.



PLAN VIEW

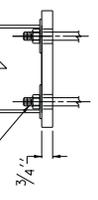


DETAIL "A"



REAR ELEVATION

③  
 PLAN VIEW  
 OFFSET BLOCK TYPE 4  
 6' X 8" (Nominal Size)  
 (TIMBER OR APPROVED COMPOSITE)  
 (FOR USE WITH STEEL POST ONLY)



SIDE VIEW  
 ANCHOR PLATE

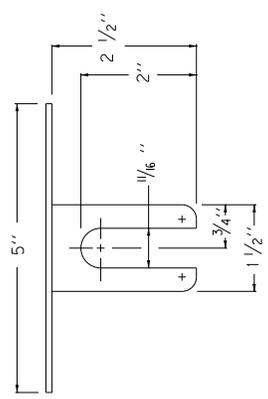
KENTUCKY DEPARTMENT OF HIGHWAYS	STEEL GUARDRAIL POSTS
	SUBMITTED: <i>Mark P. Seibel</i> DIRECTOR DIVISION OF DESIGN DATE: 3-06-18

028

COUNTY OF	ITEM NO.	SHEET NO.

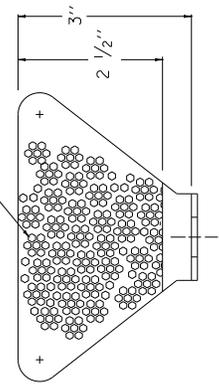
~ NOTES ~

- BID ITEMS AND UNIT TO BID  
 DELINEATOR FOR GUARDRAIL B/W EACH  
 DELINEATOR FOR GUARDRAIL M/W EACH  
 DELINEATOR FOR GUARDRAIL M/Y EACH
- DELINEATORS SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR ONE COMPLETE INSTALLATION.
  - DELINEATOR SHAPE AND DIMENSIONS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. TYPES OF DELINEATORS PERMITTED SHALL BE FROM THE LIST OF APPROVED MATERIALS.
  - GUARDRAIL DELINEATORS SHALL BE REQUIRED ON ALL GUARDRAIL.
  - DELINEATORS SHALL NOT BE INSTALLED WITHIN THE PAY LIMITS OF THE END TREATMENT.
  - DELINEATORS SHALL BE MANUFACTURED FROM 12 GA. GALVANIZED STEEL.
  - DIMENSIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MANUFACTURER'S TOLERANCES.
  - WHEN CONCRETE BARRIERS EXTEND ACROSS BRIDGE STRUCTURES IN LIEU OF STEEL BEAM GUARDRAIL, DELINEATORS SHALL BE INSTALLED AT SAME VERTICAL ALIGNMENT AS ON THE GUARDRAIL, AND DELINEATORS SHALL COMPLY WITH CURRENT STANDARD DRAWING RBM-020.
  - DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

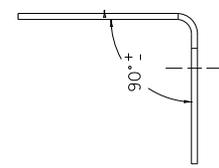


PLAN VIEW

TYPE IX SHEETING,  
YELLOW OR WHITE



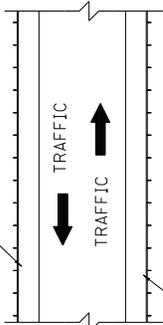
FRONT VIEW



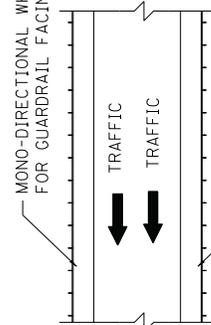
SIDE VIEW

DIMENSIONS SHOWN ARE FOR ONE VERSION OF A WEB-MOUNTED GUARDRAIL DELINEATOR. DELINEATORS WITH ALTERNATE DIMENSIONS MAY BE CONSIDERED FOR INCLUSION ON THE APPROVED PRODUCTS LIST.

BI-DIRECTIONAL WHITE DELINEATOR FOR GUARDRAIL FACING TRAFFIC



BI-DIRECTIONAL WHITE DELINEATOR FOR GUARDRAIL FACING TRAFFIC

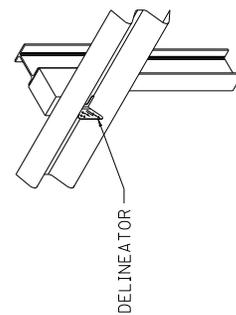


MONO-DIRECTIONAL WHITE DELINEATOR FOR GUARDRAIL FACING TRAFFIC

MONO-DIRECTIONAL YELLOW DELINEATOR FOR GUARDRAIL FACING TRAFFIC



MONO-DIRECTIONAL YELLOW DELINEATOR FOR GUARDRAIL FACING TRAFFIC

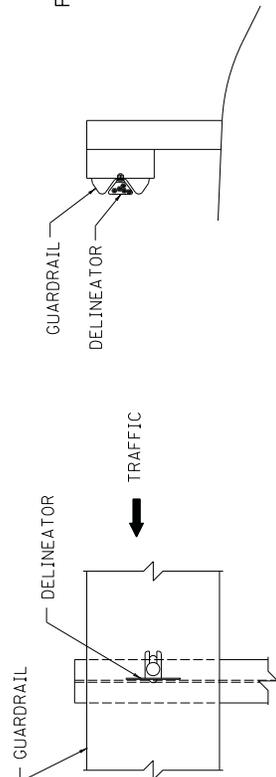


ISOMETRIC VIEW  
USE WITH CUR. STD. DWGS.  
RBM-020, RBR-060

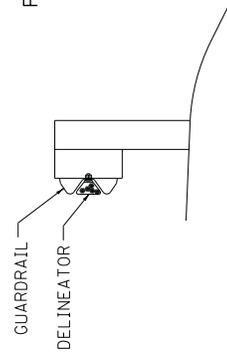
PLACEMENT OF DELINEATORS FOR GUARDRAIL

APPROXIMATE DELINEATOR SPACING	
TANGENT	100'
CURVE	50'

SPACING SHOULD BE ADJUSTED IN CURVES SO THAT SEVERAL DELINEATORS ARE ALWAYS SIMULTANEOUSLY VISIBLE TO THE ROAD USER.



FRONT VIEW



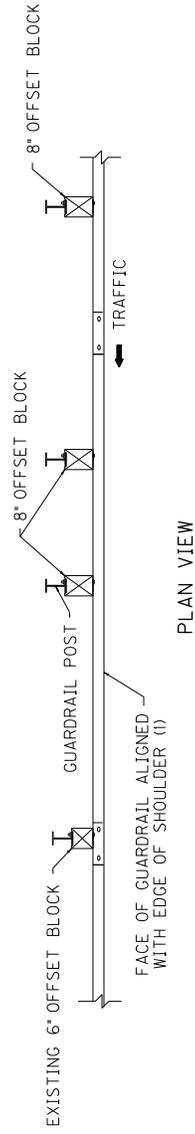
SIDE VIEW

KENTUCKY  
DEPARTMENT OF HIGHWAYS  
DELINEATORS FOR GUARDRAIL

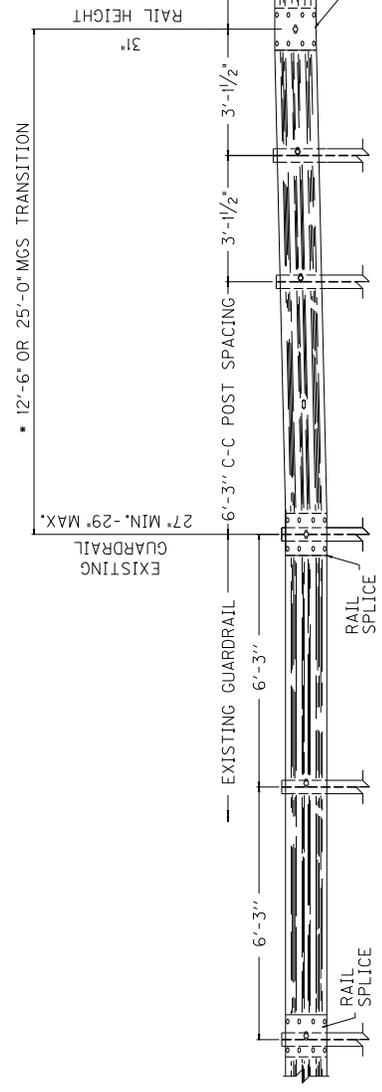
DATE: 11-17-12  
SUBMITTED: [Signature]  
DIRECTOR DIVISION OF DESIGN

032

COUNTY OF	ITEM NO.	SHEET NO.



• 12'-6" TRANSITION FROM 29" TO 31" SHOWN,  
25'-0" REQUIRED FOR 27" TO 31" TRANSITION.



\* 12'-6" OR 25'-0" MGS TRANSITION

27" MIN. - 29" MAX.  
EXISTING GUARDRAIL

~ NOTES ~

- 1) WHERE POST OFFSET IS CONSTRAINED, AND WHEN THE EXISTING SHOULDER IS WIDER THAN 4 FEET, THE EXISTING SHOULDER MAY BE REDUCED UP TO 2 INCHES TO ACCOMMODATE THE 8 INCH BLOCKS OF THE MGS GUARDRAIL. WHERE SITE CONSTRAINTS PROHIBIT THE POST FROM BEING PLACED AT LEAST 6 INCHES IN FRONT OF THE SLOPE BREAK POINT, USE 7 FOOT POSTS.
- 2) MGS TRANSITION FROM EXISTING GUARDRAIL SHALL BE COMPLETED OUTSIDE THE 50 FEET MGS END TERMINAL LIMITS.

<b>KENTUCKY DEPARTMENT OF HIGHWAYS</b>
GUARDRAIL SYSTEM TRANSITION
SUBMITTED: <i>Robert P. Salcedo</i> DIRECTOR DIVISION OF DESIGN 4-04-18 DATE
033

COUNTY OF	ITEM NO.	SHEET NO.

**STRIPING NOTES:**

- ARROWS SHALL BE USED IN ANY EXCLUSIVE TURN LANES.
- IN A SINGLE TURN LANE, DOTTED WHITE LANE LINE EXTENSIONS MAY BE USED THROUGH THE TAPER OF THE TURN LANE.
- IF USED, DOTTED WHITE LANE LINE EXTENSIONS SHALL BE NORMAL WIDTH, AND SHOULD BE 2' LONG, WITH A GAP OF 2-6' BETWEEN EACH LINE.
- IN DUAL TURN LANES, DOTTED WHITE LANE LINE EXTENSIONS SHOULD BE USED THROUGH THE TAPER OF THE TURN LANE. BOTH SOLID LINES FORMING THE TURN LANES SHALL BEGIN AT THE DOWNSTREAM END OF THE TAPER.

**ARROW SPACING NOTES:**

- IN SINGLE-DIRECTION TURN LANES, ARROWS SHOULD BE SPACED AS FOLLOWS:
- AT LEAST TWO ARROWS SHOULD BE USED IN EACH TURN LANE. HOWEVER, IF A TURN LANE IS LESS THAN 80' IN LENGTH, THE DOWNSTREAM ARROW MAY BE ELIMINATED.
- THE FIRST UPSTREAM ARROW SHALL BE PLACED AT THE BEGINNING OF THE SOLID LINE FOR THE TURN LANE.
- THE LAST DOWNSTREAM ARROW SHOULD BE PLACED 40' FROM THE STOP BAR.
- ANY ADDITIONAL ARROWS SHOULD BE EVENLY SPACED. SPACING SHOULD NOT EXCEED 80'.
- ARROW SPACING AND NUMBER OF ARROWS MAY VARY BASED ON SITE CONDITIONS.

**DOTTED EXTENSION DIMENSIONS:**



Dotted extensions shall be normal width.

**KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**

**TYPICAL MARKINGS FOR TURN LANES**

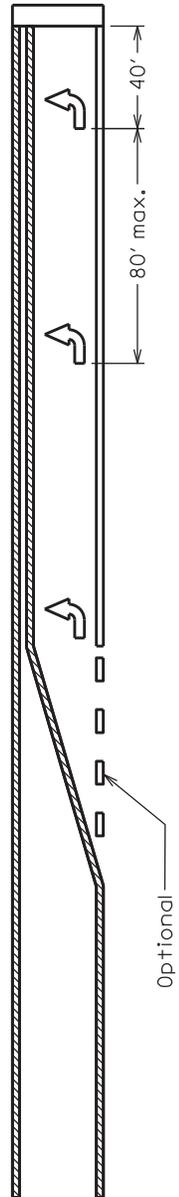
SUBMITTED: *R. [Signature]* DATE: 11-30-18  
 042

**DRAWING NOT TO SCALE**

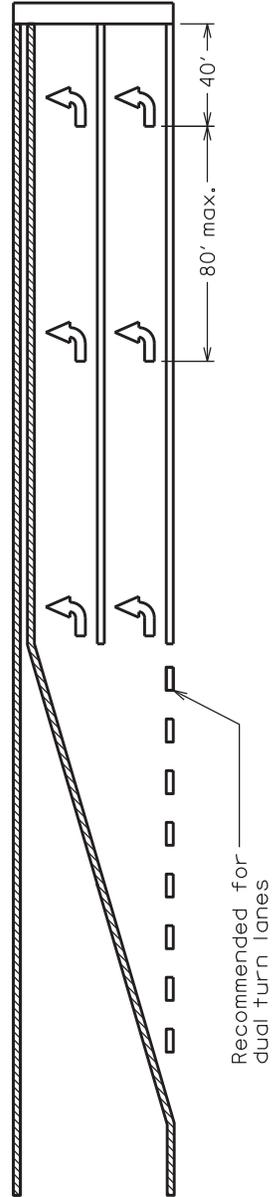
**LEGEND**

MARKINGS	WHITE
	YELLOW

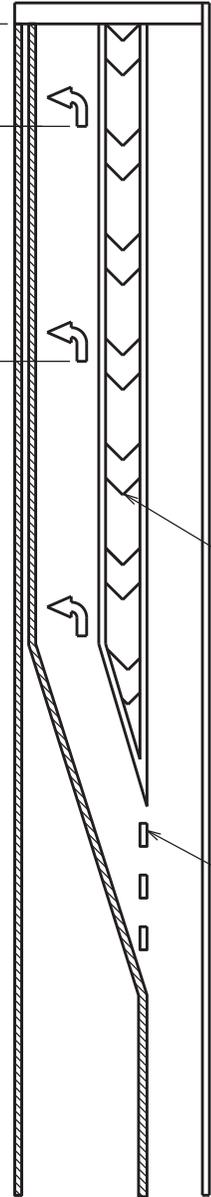
Single turn lane



Dual turn lane



Offset turn lane



Chevron markings shall be used for offsets greater than 6'. Follow crosshatching guidelines shown in Sepia 046 for dimensions and spacing.

SHEET NO.	
COUNTY OF	
ITEM NO.	

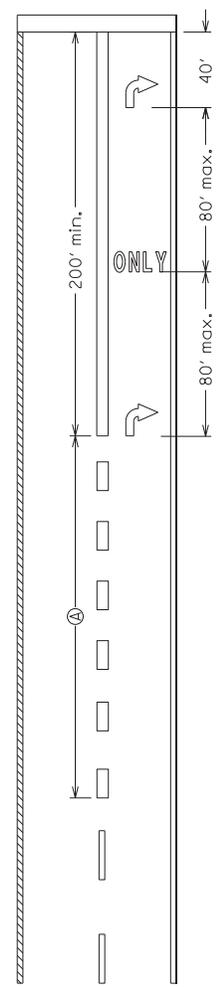
**LANE\_DROP\_MARKINGS\_NOTES:**

- IN SITUATIONS WHERE A THROUGH LANE BECOMES A MANDATORY TURN LANE, THE FOLLOWING GUIDELINES APPLY:
- A WIDE SOLID LINE SHOULD EXTEND BACK A MINIMUM OF 200' FROM THE STOP BAR.
- A WIDE, DOTTED LINE SHALL EXTEND FROM THE END OF THE SOLID LINE BACK A MINIMUM OF THE DISTANCE SHOWN IN THE CHART (A). THESE LINES SHALL BE 3' LONG, WITH A SPACE OF 9' BETWEEN LINES.
- ALTERNATING ARROWS AND "ONLY" WORD MESSAGES SHALL BE USED, WITH THE FIRST AND LAST MARKING BEING AN ARROW.
- ALTERNATING ARROWS AND "ONLY" WORD MESSAGES SHOULD BE SPACED EVENLY, FOLLOWING GUIDELINES FOR ARROW SPACING.
- THESE SYMBOLS SHALL EXTEND BACK AT LEAST TO THE END OF THE SOLID STRIPE, BUT MAY BE EXTENDED BACK FARTHER IF ADDITIONAL GUIDANCE IS NEEDED.

**TWO-WAY LEFT-TURN LANE NOTES:**

- IN A TWO-WAY LEFT-TURN LANE, THE FOLLOWING GUIDELINES APPLY:
- ONE SET OF ARROWS SHOULD BE PLACED AT OR NEAR THE BEGINNING OF THE TWO-WAY LEFT-TURN LANE.
- ADDITIONAL SETS OF ARROWS SHOULD BE PLACED THROUGHOUT THE TWO-WAY LEFT-TURN LANE IF LEFT TURN MOVEMENTS ARE EXPECTED. THEY SHOULD BE SPACED NO LESS THAN 300' AND NO MORE THAN 1/2 MILE.
- THE SPACING BETWEEN EACH ARROW IN A SINGLE ARROW SET SHOULD BE 16 FEET.
- TWO-WAY LEFT-TURN LANES SHALL TERMINATE IN A DEDICATED LEFT-TURN LANE AT A SIGNALIZED INTERSECTION. THEY MAY TERMINATE IN A DEDICATED LEFT-TURN LANE AT OTHER LOCATIONS IF DEEMED NECESSARY.
- CONTACT TRAFFIC ENGINEER FOR RECOMMENDED DISTANCE FOR LEFT TURN STORAGE AT INTERSECTIONS.
- REFER TO THE TRAFFIC OPERATIONS GUIDANCE MANUAL SECTION TO-504 FOR MORE GUIDANCE ON TWO-WAY LEFT-TURN LANES.

Lane drop scenario



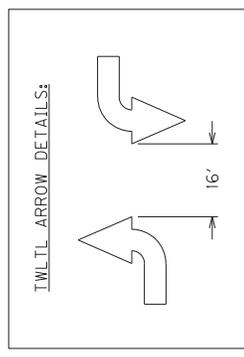
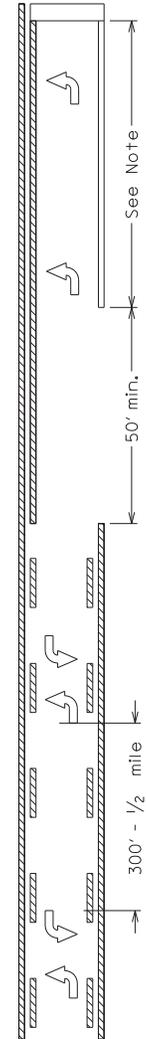
Speed Limit	(A)
25	125'
35	245'
45	540'
55	660'
65	780'

**WIDE DOTTED LANE LINE DIMENSIONS:**

3' → [ ] → 9' → [ ] →

Dotted lane lines shall be twice the normal width in lane drop scenarios.

Two-way left-turn lane



DRAWING NOT TO SCALE

LEGEND

MARKINGS

[ ]	WHITE
[ ]	YELLOW

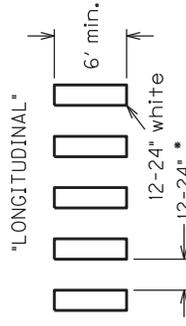
**KENTUCKY DEPARTMENT OF HIGHWAYS**

TYPICAL MARKINGS FOR TURN LANES

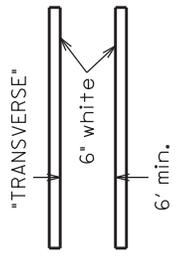
SUBMITTED: *R. Offenberg* DATE: 4-22-19  
 043

SHEET NO.	ITEM NO.	COUNTY OF
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CROSSWALK DETAIL



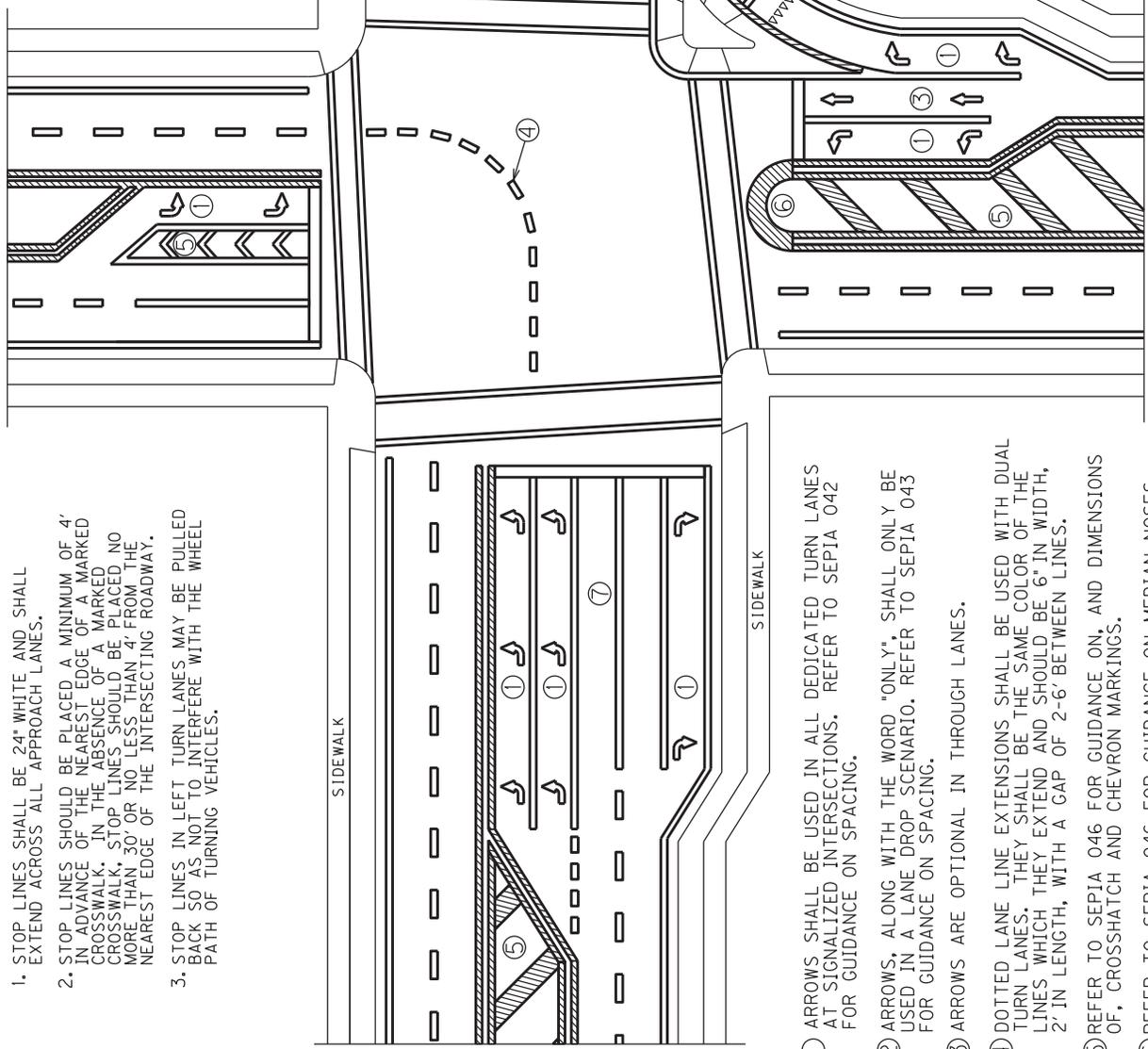
\*LONGITUDINAL\*  
 CROSSWALK BARS SHALL BE INSTALLED PARALLEL WITH ONCOMING TRAFFIC.  
 \*SPACING OF BARS SHOULD BE MODIFIED SO AS TO AVOID TIRE PATHS OF APPROACHING VEHICLES.



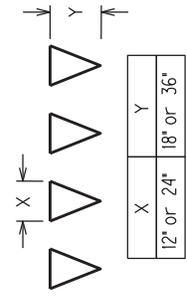
\*TRANSVERSE\*  
 TRANSVERSE LINES SHOULD EXTEND ACROSS THE FULL WIDTH OF THE APPROACH PAVEMENT.  
 TRANSVERSE LINES MAY BE COMBINED WITH LONGITUDINAL LINES TO FORM A "LADDER-STYLE" CROSSWALK.

STOP LINE NOTES

1. STOP LINES SHALL BE 24" WHITE AND SHALL EXTEND ACROSS ALL APPROACH LANES.
2. STOP LINES SHOULD BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF A MARKED CROSSWALK. IN THE ABSENCE OF A MARKED CROSSWALK, STOP LINES SHOULD BE PLACED NO MORE THAN 30' OR NO LESS THAN 4' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
3. STOP LINES IN LEFT TURN LANES MAY BE PULLED BACK SO AS NOT TO INTERFERE WITH THE WHEEL PATH OF TURNING VEHICLES.



YIELD LINE DETAIL



NOTE: SPACING BETWEEN TRIANGLES SHOULD BE 3-12"

DRAWING NOT TO SCALE

LEGEND	
MARKINGS	WHITE
	YELLOW

- ① ARROWS SHALL BE USED IN ALL DEDICATED TURN LANES AT SIGNALIZED INTERSECTIONS. REFER TO SEPIA 042 FOR GUIDANCE ON SPACING.
- ② ARROWS, ALONG WITH THE WORD "ONLY", SHALL ONLY BE USED IN A LANE DROP SCENARIO. REFER TO SEPIA 043 FOR GUIDANCE ON SPACING.
- ③ ARROWS ARE OPTIONAL IN THROUGH LANES.
- ④ DOTTED LANE LINE EXTENSIONS SHALL BE USED WITH DUAL TURN LANES. THEY SHALL BE THE SAME COLOR OF THE LINES WHICH THEY EXTEND AND SHOULD BE 6" IN WIDTH, 2-IN LENGTH, WITH A GAP OF 2-6' BETWEEN LINES.
- ⑤ REFER TO SEPIA 046 FOR GUIDANCE ON, AND DIMENSIONS OF, CROSSHATCH AND CHEVRON MARKINGS.
- ⑥ REFER TO SEPIA 046 FOR GUIDANCE ON MEDIAN NOSES.
- ⑦ SOLID LINE SEPARATING THROUGH LANES SHOULD EXTEND BACK A MINIMUM OF 50' FROM THE STOP BAR.

\*NOTE: OTHER THAN LONGITUDINAL STRIPING, ALL MARKINGS SHOWN ON THIS DRAWING SHOULD BE THERMOPLASTIC.

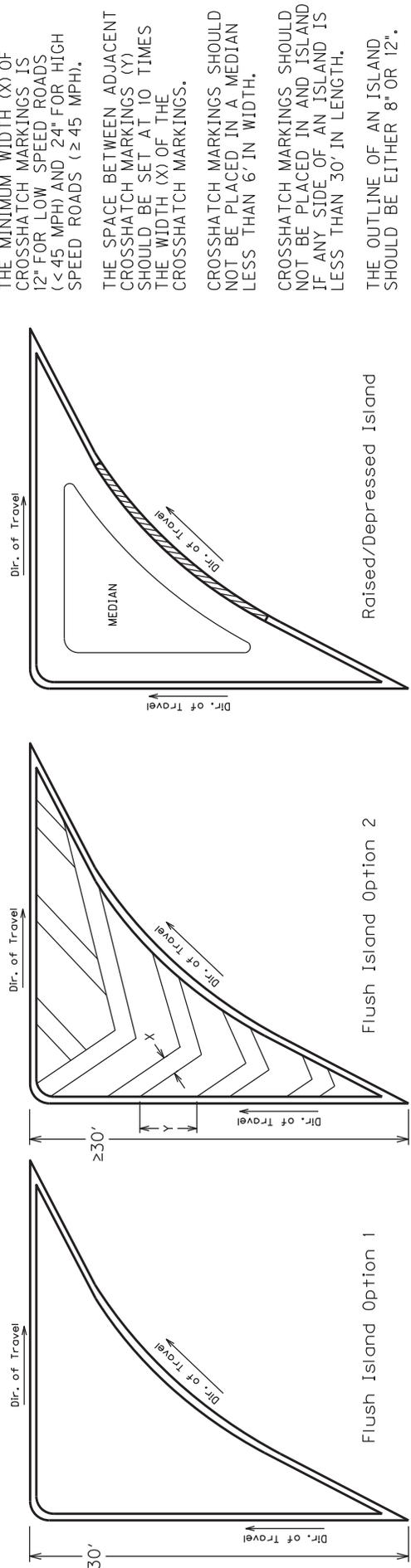
KENTUCKY  
 DEPARTMENT OF HIGHWAYS

**TYPICAL MARKINGS AT SIGNALIZED INTERSECTIONS**

DATE: 11-30-18  
 SUBMITTED: *R. [Signature]*  
 044

COUNTY OF	ITEM NO.	SHEET NO.

### TYPICAL RIGHT-TURN CHANNELIZING ISLAND MARKINGS



### GENERAL NOTES

THE MINIMUM WIDTH (X) OF CROSSHATCH MARKINGS IS 12" FOR LOW SPEED ROADS (<45 MPH) AND 24" FOR HIGH SPEED ROADS ( $\ge 45$  MPH).

THE SPACE BETWEEN ADJACENT CROSSHATCH MARKINGS (Y) SHOULD BE SET AT 10 TIMES THE WIDTH (X) OF THE CROSSHATCH MARKINGS.

CROSSHATCH MARKINGS SHOULD NOT BE PLACED IN A MEDIAN LESS THAN 6' IN WIDTH.

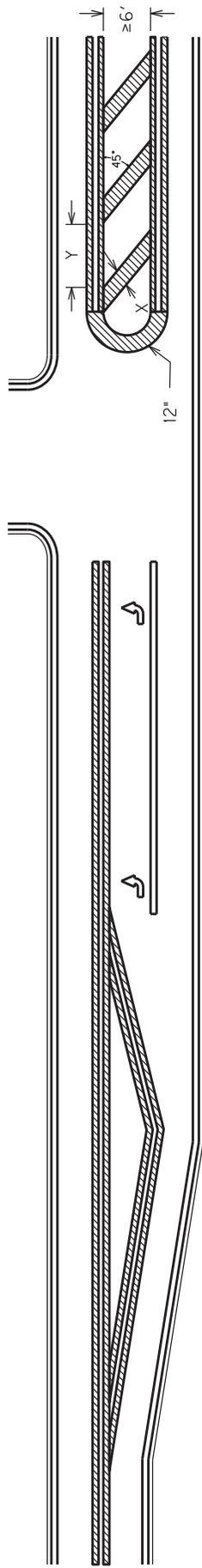
CROSSHATCH MARKINGS SHOULD NOT BE PLACED IN AND ISLAND IF ANY SIDE OF AN ISLAND IS LESS THAN 30' IN LENGTH.

THE OUTLINE OF AN ISLAND SHOULD BE EITHER 8" OR 12".

MEDIAN NOSES MAY BE EITHER A SINGLE 12" LINE OR A SOLID SEMI-CIRCLE.

CROSSHATCH AND CHEVRON MARKINGS SHOULD BE THERMOPLASTIC.

### TYPICAL LEFT-TURN LANE / FLUSH MEDIAN CROSSHATCH MARKINGS

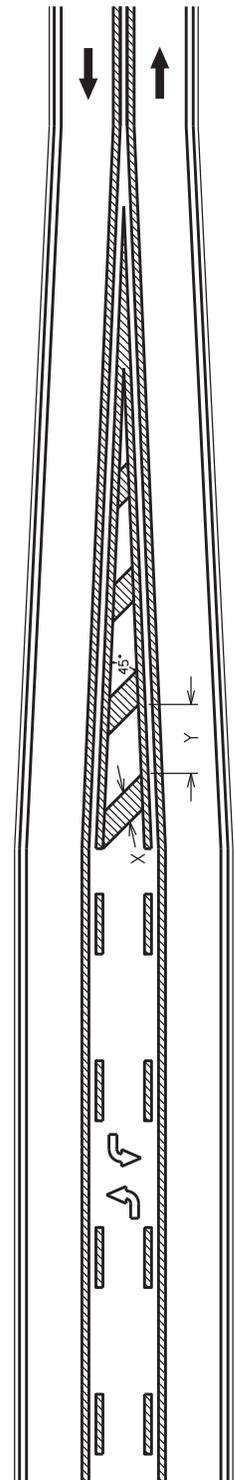


LEGEND

MARKINGS	WHITE
	YELLOW

**DRAWING NOT TO SCALE**

### TYPICAL TWO-WAY LEFT-TURN LANE (TWLTL) TRANSITION MARKINGS



Note: Crosshatch markings shall be placed in the transition area of a TWLTL.

KENTUCKY  
 DEPARTMENT OF HIGHWAYS

**TYPICAL MARKINGS FOR ISLANDS AND MEDIANS**

DATE: 11-30-18  
 SUBMITTED: *R. [Signature]*  
 046

## **PART III**

### **EMPLOYMENT, WAGE AND RECORD REQUIREMENTS**

FHWA-1273 -- Revised May 1, 2012

## REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

### ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

### I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

### II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

**6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

**10. Assurance Required by 49 CFR 26.13(b):**

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

### III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

### IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

#### 1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

## 2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

## 3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and trainees

##### a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

##### b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

**6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

**7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility.**

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

**1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

**3. Withholding for unpaid wages and liquidated damages.** The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

## VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

## VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

## VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

#### **IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

#### **X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

##### **1. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

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**2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**2. Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

\* \* \* \* \*

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

\* \* \* \* \*

**XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS  
PREFERENCE FOR APPALACHIAN DEVELOPMENT  
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS  
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

**KENTUCKY TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS**

**EMPLOYMENT REQUIREMENTS  
RELATING TO  
NONDISCRIMINATION OF EMPLOYEES  
(APPLICABLE TO FEDERAL-AID SYSTEM CONTRACTS)**

**AN ACT OF THE KENTUCKY GENERAL ASSEMBLY  
TO PREVENT DISCRIMINATION IN EMPLOYMENT**

**KRS CHAPTER 344  
EFFECTIVE JUNE 16, 1972**

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

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

### Standard Title VI/Non-Discrimination Assurances

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, **Federal Highway Administration**, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the **Federal Highway Administration** to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the **Federal Highway Administration**, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the **Federal Highway Administration** may determine to be appropriate, including, but not limited to:
  - a. withholding payments to the contractor under the contract until the contractor complies; and/or
  - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the **Federal Highway Administration** may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

### Standard Title VI/Non-Discrimination Statutes and Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor”) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*)

## 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, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

General Decision Number: KY190039 05/10/2019 KY39

Superseded General Decision Number: KY20180101

State: Kentucky

Construction Type: Highway

Counties: Boone, Campbell, Kenton and Pendleton Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number	Publication Date
0	01/04/2019
1	02/01/2019
2	05/10/2019

BRKY0002-005 06/01/2017

	Rates	Fringes
BRICKLAYER.....	\$ 27.81	13.01

BROH0001-005 06/01/2008

	Rates	Fringes
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CEMENT MASON/CONCRETE FINISHER...\$ 25.75 8.60

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 CARP0698-001 05/01/2014

BOONE, CAMPBELL, KENTON & PENDLETON COUNTIES:

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 27.27	14.59
Diver.....	\$ 40.58	9.69

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 ELEC0212-007 06/04/2018

	Rates	Fringes
ELECTRICIAN.....	\$ 28.39	18.98

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 ELEC0212-013 11/26/2018

	Rates	Fringes
Sound & Communication Technician.....	\$ 24.35	10.99

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 \* ENGI0018-013 05/01/2019

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 37.39	14.95
GROUP 2.....	\$ 37.27	14.95
GROUP 3.....	\$ 36.23	14.95
GROUP 4.....	\$ 35.05	14.95
GROUP 5.....	\$ 29.59	14.95
GROUP 6.....	\$ 37.64	14.95
GROUP 7.....	\$ 37.89	14.95

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver;

Tower Derrick; Tree Shredder; Trench Machine (Over 24" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; & Wheel Excavator

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48"; Bulldozer; Endloader; Hydro Milling Machine; Horizontal Directional Drill (over 500,000 ft. lbs. thrust); Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24" wide & under); & Vermeer type Concrete Saw

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4" & over discharge); Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); & Welding Machines

GROUP 4 - Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway) except Masonry; Finishing Machine; Fireperson, Floating Equipment (all types); Fork Lift (highway); Form Trencher; Hydro Hammer; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); & Vibratory Compactor with Integral Power

GROUP 5 - Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (Asphalt); Generator; Masonry Fork Lift; Inboard-Outboard Motor Boat Launch; Masonry Fork Lift; Oil Heater (asphalt plant); Oiler; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4" discharge); Signalperson; Tire Repairperson; & VAC/ALLS

GROUP 6 - Master Mechanic & Boom from 150 to 180

GROUP 7 - Boom from 180 and over

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IRON0044-008 06/01/2018

	Rates	Fringes
Ironworkers:		
Fence Erector.....	\$ 26.76	21.20
Structural.....	\$ 28.17	21.20

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 IRON0044-018 06/01/2018

	Rates	Fringes
IRONWORKER, REINFORCING.....	\$ 28.17	21.20

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 LABO0189-004 07/01/2018

PENDLETON COUNTY:

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 23.07	14.21
GROUP 2.....	\$ 23.32	14.21
GROUP 3.....	\$ 23.37	14.21
GROUP 4.....	\$ 23.97	14.21

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster;

& Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Driller (All Types); Powderman & Blaster; Troxler & Concrete Tester if Laborer is Utilized

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LABO0265-009 05/01/2018

BOONE, CAMPBELL & KENTON COUNTIES:

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 30.62	10.95
GROUP 2.....	\$ 30.79	10.95
GROUP 3.....	\$ 31.12	10.95
GROUP 4.....	\$ 31.57	10.95

LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Laborer; Carpenter Tender; Concrete Curing Applicator; Dump Man (Batch Truck); Guardrail and Fence Installer; Joint Setter; Laborer (Construction); Landscape Laborer; Highway Lighting Worker; Signalization Worker; Mesh Handlers & Placer; Right-of-way Laborer; Riprap Laborer & Grouter; Scaffold Erector; Seal Coating; Surface Treatment or Road Mix Laborer; Sign Installer; Slurry Seal; Utility Man; Bridge Man; Handyman; Waterproofing Laborer; Flagperson; Hazardous Waste (level D); Diver Tender; Zone Person & Traffic Control

GROUP 2 - Skid Steer; Asphalt Raker; Concrete Puddler; Kettle Man (Pipeline); Machine Driven Tools (Gas, Electric, Air); Mason Tender; Brick Paver; Mortar Mixer; Power Buggy or Power Wheelbarrow; Sheeting & Shoring Man; Surface Grinder Man; Plastic Fusing Machine Operator; Pug Mill Operator; & Vacuum Devices (wet or dry); Rodding Machine Operator; Diver; Screwman or Paver; Screed Person; Water Blast, Hand Held Wand; Pumps 4" & Under (Gas, Air or Electric) & Hazardous Waste (level C); Air Track and Wagon Drill; Bottom Person; Cofferdam (below 25 ft. deep); Concrete Saw Person; Cutting with Burning Torch; Form Setter; Hand Spiker (Railroad); Pipelayer; Tunnel Laborer (without air) & Caisson; Underground Person (working in Sewer and Waterline, Cleaning, Repairing & Reconditioning); Sandblaster Nozzle Person; & Hazardous Waste (level B)

GROUP 3 - Blaster; Mucker; Powder Person; Top Lander; Wrencher (Mechanical Joints & Utility Pipeline); Yarnier; Hazardous Waste (level A); Concrete Specialist; Concrete Crew in Tunnels (With Air-pressurized - \$1.00 premium); Curb Setter & Cutter; Grade Checker; Utility Pipeline Tapper; Waterline; and Caulker

GROUP 4 - Miner; & Gunite Nozzle Person

TUNNEL LABORER WITH AIR-PRESSURIZED ADD \$1.00 TO BASE RATE

SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING.

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PAIN0012-016 05/01/2015

	Rates	Fringes
PAINTER		
Bridge.....	\$ 24.39	9.06
Bridge Equipment Tender and Containment Builder.....	\$ 20.73	9.06
Brush & Roller.....	\$ 23.39	9.06
Sandblasting & Water Blasting.....	\$ 24.14	9.06
Spray.....	\$ 23.89	9.06

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PLUM0392-008 06/01/2018

	Rates	Fringes
PLUMBER.....	\$ 32.01	19.67

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SUKY2010-161 02/05/1996

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 15.85	4.60
GROUP 2.....	\$ 16.29	4.60

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Driver

GROUP 2 - Euclid Wagon; End Dump; Lowboy; Heavy Duty  
Equipment; Tractor-Trailer Combination; & Drag

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WELDERS - Receive rate prescribed for craft performing  
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave  
for Federal Contractors applies to all contracts subject to the  
Davis-Bacon Act for which the contract is awarded (and any  
solicitation was issued) on or after January 1, 2017. If this  
contract is covered by the EO, the contractor must provide  
employees with 1 hour of paid sick leave for every 30 hours  
they work, up to 56 hours of paid sick leave each year.  
Employees must be permitted to use paid sick leave for their  
own illness, injury or other health-related needs, including  
preventive care; to assist a family member (or person who is  
like family to the employee) who is ill, injured, or has other  
health-related needs, including preventive care; or for reasons  
resulting from, or to assist a family member (or person who is  
like family to the employee) who is a victim of, domestic  
violence, sexual assault, or stalking. Additional information  
on contractor requirements and worker protections under the EO  
is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the

interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

**TO: EMPLOYERS/EMPLOYEES**

**PREVAILING WAGE SCHEDULE:**

**The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.**

**OVERTIME:**

**Overtime is to be paid to an employee at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty (40) hours in such workweek. Wage violations or questions should be directed to the designated Engineer or the undersigned.**

Director  
Division of Construction Procurement  
Frankfort, Kentucky 40622  
502-564-3500

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION  
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY  
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

<b>GOALS FOR MINORITY PARTICIPATION IN EACH TRADE</b>	<b>GOALS FOR FEMALE PARTICIPATION IN EACH TRADE</b>
11.0%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed. The notification shall be mailed to:

**Evelyn Teague, Regional Director  
Office of Federal Contract Compliance Programs  
61 Forsyth Street, SW, Suite 7B75  
Atlanta, Georgia 30303-8609**

4. As used in this Notice, and in the contract resulting from this solicitation, the "**covered area**" is Boone County.

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION  
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY  
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

<b>GOALS FOR MINORITY PARTICIPATION IN EACH TRADE</b>	<b>GOALS FOR FEMALE PARTICIPATION IN EACH TRADE</b>
11.0%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed. The notification shall be mailed to:

**Evelyn Teague, Regional Director  
Office of Federal Contract Compliance Programs  
61 Forsyth Street, SW, Suite 7B75  
Atlanta, Georgia 30303-8609**

4. As used in this Notice, and in the contract resulting from this solicitation, the "**covered area**" is Campbell County.

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION  
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY  
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

<b>GOALS FOR MINORITY PARTICIPATION IN EACH TRADE</b>	<b>GOALS FOR FEMALE PARTICIPATION IN EACH TRADE</b>
11.0%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed. The notification shall be mailed to:

**Evelyn Teague, Regional Director  
Office of Federal Contract Compliance Programs  
61 Forsyth Street, SW, Suite 7B75  
Atlanta, Georgia 30303-8609**

4. As used in this Notice, and in the contract resulting from this solicitation, the "**covered area**" is Kenton County.

**PART IV**  
**INSURANCE**

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

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

### PROPOSAL BID ITEMS

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#### Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	645.00	TON		\$	
0020	00018		DRAINAGE BLANKET-TYPE II-ASPH	402.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	14.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	2.00	TON		\$	
0050	00214		CL3 ASPH BASE 1.00D PG64-22	887.00	TON		\$	
0060	00332		CL3 ASPH SURF 0.50A PG76-22	144.00	TON		\$	
0070	00356		ASPHALT MATERIAL FOR TACK	2.90	TON		\$	

#### Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0080	01897		ASPHALT WEDGE CURB	315.00	LF		\$	
0090	01921		STANDARD BARRIER MEDIAN TYPE 4	500.00	SQYD		\$	
0100	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	6.00	EACH		\$	
0110	02159		TEMP DITCH	765.00	LF		\$	
0120	02160		CLEAN TEMP DITCH	383.00	LF		\$	
0130	02200		ROADWAY EXCAVATION	773.00	CUYD		\$	
0140	02562		TEMPORARY SIGNS	240.00	SQFT		\$	
0150	02650		MAINTAIN & CONTROL TRAFFIC (BOONE KY 1829 AT SAFEWAY)	1.00	LS		\$	
0160	02650		MAINTAIN & CONTROL TRAFFIC (CAMPBELL KY 9 AT KY 1998)	1.00	LS		\$	
0170	02650		MAINTAIN & CONTROL TRAFFIC (CAMPBELL US 27 AT KY 1998)	1.00	LS		\$	
0180	02650		MAINTAIN & CONTROL TRAFFIC (KENTON KY 1303 AT DUDLEY)	1.00	LS		\$	
0190	02650		MAINTAIN & CONTROL TRAFFIC (KENTON KY 1303 AT KY 236)	1.00	LS		\$	
0200	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0210	02696		SHOULDER RUMBLE STRIPS	950.00	LF		\$	
0220	02701		TEMP SILT FENCE	765.00	LF		\$	
0230	02703		SILT TRAP TYPE A	1.00	EACH		\$	
0240	02704		SILT TRAP TYPE B	1.00	EACH		\$	
0250	02705		SILT TRAP TYPE C	1.00	EACH		\$	
0260	02706		CLEAN SILT TRAP TYPE A	1.00	EACH		\$	
0270	02707		CLEAN SILT TRAP TYPE B	1.00	EACH		\$	
0280	02708		CLEAN SILT TRAP TYPE C	1.00	EACH		\$	
0290	02726		STAKING (BOONE KY 1829 AT SAFEWAY)	1.00	LS		\$	
0300	02726		STAKING (CAMPBELL KY 9 AT KY 1998)	1.00	LS		\$	
0310	02726		STAKING (CAMPBELL US 27 AT KY 1998)	1.00	LS		\$	
0320	02726		STAKING (KENTON KY 1303 AT DUDLEY)	1.00	LS		\$	
0330	02726		STAKING (KENTON KY 1303 AT KY 236)	1.00	LS		\$	
0340	05950		EROSION CONTROL BLANKET	857.00	SQYD		\$	

**PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0350	05952		TEMP MULCH	2,303.00	SQYD		\$	
0360	05953		TEMP SEEDING AND PROTECTION	1,727.00	SQYD		\$	
0370	05963		INITIAL FERTILIZER	.13	TON		\$	
0380	05964		MAINTENANCE FERTILIZER	.22	TON		\$	
0390	05985		SEEDING AND PROTECTION	3,455.00	SQYD		\$	
0400	05989		SPECIAL SEEDING CROWN VETCH	667.00	SQYD		\$	
0410	05992		AGRICULTURAL LIMESTONE	2.67	TON		\$	
0420	06404		FLEXIBLE DELINEATOR POST-M/Y	10.00	EACH		\$	
0430	06406		SBM ALUM SHEET SIGNS .080 IN	40.75	SQFT		\$	
0440	06407		SBM ALUM SHEET SIGNS .125 IN	31.68	SQFT		\$	
0450	06410		STEEL POST TYPE 1	246.00	LF		\$	
0460	06514		PAVE STRIPING-PERM PAINT-4 IN	14,576.00	LF		\$	
0470	06544		PAVE STRIPING-THERMO-8 IN W	284.00	LF		\$	
0480	06545		PAVE STRIPING-THERMO-8 IN Y	153.00	LF		\$	
0490	06568		PAVE MARKING-THERMO STOP BAR-24IN	259.00	LF		\$	
0500	06569		PAVE MARKING-THERMO CROSS-HATCH	426.00	SQFT		\$	
0510	06573		PAVE MARKING-THERMO STR ARROW	2.00	EACH		\$	
0520	06574		PAVE MARKING-THERMO CURV ARROW	56.00	EACH		\$	
0530	06575		PAVE MARKING-THERMO COMB ARROW	3.00	EACH		\$	
0540	06598		PAVEMENT MARKING REMOVAL	513.00	SQFT		\$	
0550	20418ED		REMOVE & RELOCATE SIGNS	3.00	EACH		\$	
0560	20430ED		SAW CUT	2,000.00	LF		\$	
0570	21289ED		LONGITUDINAL EDGE KEY	1,100.00	LF		\$	
0580	21373ND		REMOVE SIGN	1.00	EACH		\$	
0590	21596ND		GMSS TYPE D (SURFACE MOUNT)	3.00	EACH		\$	
0600	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	425.00	LF		\$	
0610	22520EN		PAVE MARKING-THERMO YIELD BAR-36 IN	20.00	LF		\$	
0620	22664EN		WATER BLASTING EXISTING STRIPE	1,645.00	LF		\$	
0630	22680EN		QWICK CURB MEDIAN SEPARATOR	637.00	LF		\$	
0640	23608EC		YELLOW PAINT FOR MEDIAN SAFETY NOSE	30.00	SQFT		\$	
0650	24631EC		BARCODE SIGN INVENTORY	12.00	EACH		\$	
0660	24894EC		REMOVE (PAVEMENT MARKER LENS)	39.00	EACH		\$	

**Section: 0003 - DRAINAGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0670	00071		CRUSHED AGGREGATE SIZE NO 57	2.00	TON		\$	
0680	00078		CRUSHED AGGREGATE SIZE NO 2	2.00	TON		\$	
0690	00521		STORM SEWER PIPE-15 IN	212.00	LF		\$	
0700	00522		STORM SEWER PIPE-18 IN	4.00	LF		\$	
0710	01000		PERFORATED PIPE-4 IN	912.00	LF		\$	
0720	01010		NON-PERFORATED PIPE-4 IN	20.00	LF		\$	
0730	01028		PERF PIPE HEADWALL TY 3-4 IN	1.00	EACH		\$	
0740	01032		PERF PIPE HEADWALL TY 4-4 IN	1.00	EACH		\$	
0750	01310		REMOVE PIPE	7.00	LF		\$	
0760	01456		CURB BOX INLET TYPE A	2.00	EACH		\$	
0770	01585		REMOVE DROP BOX INLET	1.00	EACH		\$	

### PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0780	01691		FLUME INLET TYPE 2	1.00	EACH		\$	
0790	01740		CORED HOLE DRAINAGE BOX CON-4 IN	2.00	EACH		\$	
0800	02483		CHANNEL LINING CLASS II	25.00	TON		\$	
0810	20597EC		DITCH EXCAVATION	10.00	CUYD		\$	
0820	21597EN		REMOVE PERF PIPE HEADWALL	1.00	EACH		\$	
0830	22861EN		HIGH STRENGTH GEOTEXTILE FABRIC TY V	10.00	SQYD		\$	

#### Section: 0004 - SIGNALS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0840	04844		CABLE-NO. 14/5C	1,479.00	LF		\$	
0850	20188NS835		INSTALL LED SIGNAL-3 SECTION	30.00	EACH		\$	
0860	20189NS835		INSTALL LED SIGNAL-5 SECTION	1.00	EACH		\$	
0870	20266ES835		INSTALL LED SIGNAL- 4 SECTION	6.00	EACH		\$	
0880	24955ED		REMOVE SIGNAL EQUIPMENT (BOONE KY 1829 AT SAFEWAY)	1.00	EACH		\$	
0890	24955ED		REMOVE SIGNAL EQUIPMENT (CAMPBELL US 27 AT KY 1998)	1.00	EACH		\$	
0900	24955ED		REMOVE SIGNAL EQUIPMENT (KENTON KY 1303 AT DUDLEY)	1.00	EACH		\$	
0910	24955ED		REMOVE SIGNAL EQUIPMENT (KENTON KY 1303 AT KY 236)	1.00	EACH		\$	

#### Section: 0005 - TRAFFIC LOOPS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0920	04793		CONDUIT-1 1/4 IN	535.00	LF		\$	
0930	04820		TRENCHING AND BACKFILLING	535.00	LF		\$	
0940	04830		LOOP WIRE	568.00	LF		\$	
0950	04844		CABLE-NO. 14/5C	1,190.00	LF		\$	
0960	04850		CABLE-NO. 14/1 PAIR	2,260.00	LF		\$	
0970	04895		LOOP SAW SLOT AND FILL	364.00	LF		\$	
0980	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	3.00	EACH		\$	

#### Section: 0006 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0990	02569		DEMOBILIZATION	1.00	LS		\$	