



CALL NO. 201

CONTRACT ID. 194200

HENDERSON - DAVIESS - UNION - CHRISTIAN COUNTIES

FED/STATE PROJECT NUMBER 121GR18T001-HSIP

DESCRIPTION IMPROVEMENTS AT VARIOUS INTERSECTION IN DISTRICT 2

WORK TYPE SIGNS-LIGHTING-SIGNALS

PRIMARY COMPLETION DATE 11/30/2019

LETTING DATE: January 25,2019

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME January 25,2019. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

DBE CERTIFICATION REQUIRED - 0%

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

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PART I

SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 02

CONTRACT ID - 194200
121GR18T001-HSIP
COUNTY - CHRISTIAN
PCN - 0202416821801
HSIP 9010 (313)

HOPKINSVILLE BYPASS (KY 1682) (MP 2.337) IMPROVEMENTS AT THE INTERSECTION OF KY 1682 & KY 109 (MP 2.537), A DISTANCE OF 0.20 MILES.SIGNS-LIGHTING-SIGNALS SYP NO. 02-09008.30.
GEOGRAPHIC COORDINATES LATITUDE 36:53:35.00 LONGITUDE -87:30:47.90

COUNTY - DAVIESS
PCN - 0203004311801
HSIP 4311 (041)

FREDERICA ST (US 431) (MP 11.155) IMPROVEMENTS AT THE INTERSECTION OF US 431 AND SALEM/GOETZ DRIVE. (MP 11.322), A DISTANCE OF 0.17 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 02-09004.20.
GEOGRAPHIC COORDINATES LATITUDE 37:43:34.05 LONGITUDE -87:07:23.38

PCN - 020302831801
HSIP 9010 (308)

FREDERICA ST (KY 2831) (MP 2.456) IMPROVEMENTS AT THE INTERSECTION KY 2831 AND KY 54/KY 81 (MP 2.599), A DISTANCE OF 0.14 MILES.SIGNS-LIGHTING-SIGNALS SYP NO. 02-09004.10.
GEOGRAPHIC COORDINATES LATITUDE 37:45:49.89 LONGITUDE -87:06:45.16

COUNTY - HENDERSON
PCN - 02051041A1801
HSIP 9010 (309)

NORTH GREEN STREET (US 41A) (MP 17.181) IMPROVEMENTS AT THE INTERSECTION OF US 41A AND RICHARDSON AVENUE (MP 17.281), A DISTANCE OF 0.10 MILES.GRADE & DRAIN SYP NO. 02-09004.30.
GEOGRAPHIC COORDINATES LATITUDE 37:51:19.70 LONGITUDE 87:34:36.00

PCN - 02051041A1802
HSIP 9010 (310)

NORTH GREEN STREET (US 41A) (MP 15.613) IMPROVEMENTS AT THE INTERSECTION OF US 41A AND WASHINGTON STREET (MP 15.713), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS SYP NO. 02-09004.50.
GEOGRAPHIC COORDINATES LATITUDE 37:50:10.60 LONGITUDE 87:35:26.90

PCN - 02051041A1803
HSIP 9010 (311)

NORTH GREEN STREET (US 41A) (MP 16.168) IMPROVEMENTS AT THE INTERSECTION OF US 41A AND 5TH STREET (MP 16.268), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS SYP NO. 02-09004.60.
GEOGRAPHIC COORDINATES LATITUDE 37:50:35.80 LONGITUDE 87:35:09.60

COUNTY - MCLEAN
PCN - 0207504311801
HSIP 4311 (040)

US HIGHWAY 431 (US 431) (MP 2.600) IMPROVEMENTS NEAR THE INTERSECTION OF US 431 AND KY 85 (MP 3.100), A DISTANCE OF 0.50 MILES.THERMOPLASTIC PAVEMENT STRIPING SYP NO. 02-09004.40.
GEOGRAPHIC COORDINATES LATITUDE 37:26:57.20 LONGITUDE 87:08:31.50

COUNTY - UNION

HENDERSON - DAVIESS - UNION - CHRISTIAN COUNTIES
121GR18T001-HSIP

PCN - 0211300601801
HSIP 0601 (202)

US HIGHWAY 60 (US 60) (MP 15.362) IMPROVEMENTS AT THE INTERSECTION OF US 60, US 60B, & KY 3393. (MP 15.462), A DISTANCE OF 0.10 MILES.SIGNS-LIGHTING-SIGNALS SYP NO. 02-09008.10.
GEOGRAPHIC COORDINATES LATITUDE 37:40:22.10 LONGITUDE -87:55:32.90

COMPLETION DATE(S):

COMPLETED BY 11/30/2019 APPLIES TO ENTIRE PROJECT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

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

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 Capacity Rating 102.10 Delivery of Proposals
102.8 Irregular Proposals 102.14 Disqualification of Bidders
102.9 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 Project Code Number (PCN), 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, the DBE's certificate of insurance, and an affidavit for bidders, offerors, and contractors from the DBE to the Division of Construction Procurement. The affidavit can be found on the Construction Procurement website. If the DBE is a supplier of materials for the project, a signed purchase order and an affidavit for bidders, offerors, and contractors 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 and nine (9) copies of this information must be received in the office of 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 DBE Liaison in the Office of Minority Affairs 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 (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 submitted within 10 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.

The Prime Contractor should supply the payment information at the time the DBE is compensated for their work. Form to use is located at:

<http://transportation.ky.gov/Construction/Pages/Subcontracts.aspx>

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 is Melvin Byne and the telephone number is (502) 564-3601.

Photocopied payments and completed, signed and notarized affidavit must be submitted by the Prime Contractor to: Office of Civil Rights and Small Business Development
6th Floor West 200 Mero Street
Frankfort, KY 40622

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.

1/27/2017

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 B

Be advised that the Department will control and accept compaction of asphalt mixtures furnished on this project under OPTION B in accordance with Sections 402 and 403.

Special Notes Applicable to Project – General Notes

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. The Department does not give any guarantee as to the accuracy of the data and no claim for money or time extension will be considered if the conditions encountered are not in accordance with the information shown.

STATIONING

The contractor is advised that the planned locations of work at each intersection were established as follows:

- **Daviess County, Frederica Street @ West/East Parrish Ave:** KY 2831 Station 101+89.05 is the center of the intersection of KY 2831 and KY 81/KY54. This location is MP 2.511 and the Geographic coordinates are: Latitude 37:45:50.04 Longitude -87:06:45.19.
- **Daviess County, Frederica Street @ Salem/Goetz Dr:** US 431 Station 109+50.91 is the center of the intersection US 431 and Salem/Goetz Dr. This location is MP 11.218 and the Geographic coordinates are: Latitude 37:43:34.16; Longitude -87:07:23.68
- **Henderson County, US 41A @ Washington Street:** US 41A Station 55+00 is the center of the intersection of US 41A and Washington Street. This location is MP 15.663 along US 41A and the Geographic coordinates are: Latitude = 37:50:10.60; Longitude = -87:35:26.90
- **Henderson County, US 41A @ 5th Street:** US 41A Station 12+55 is the center of the intersection of US 41A and 5th Street. This location is MP 16.218 along US 41A and the Geographic coordinates are: Latitude = 37:50:35.70; Longitude = -87:35:09.70
- **Henderson County, US 41A @ Richardson Avenue:** US 41A Station 103+12 and Richardson Ave Station 200+00 is the center of the intersection of US 41A and Richardson Avenue. This location is MP 17.200 along US 41A and the Geographic coordinates are: Latitude = 37:51:19.70; Longitude = -87:34:36.00
- **McLean County, US 431 @ KY 85:** US 431 Station 50+00 and KY 85 Station 194+98 is the center of the intersection of US 431 @ KY 85. This location is MP 2.766 along US 431 and MP 10.151 along KY 85, and the Geographic coordinates are: Latitude = 37:26:57.20; Longitude = -87:08:31.50

The existing mile marker signs along the roadways may not correspond to the actual mile points.

LIDAR

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

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GENERAL 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:

2-9004.10 – Daviess County - Frederica Street (KY 2831) at West Parrish Avenue (KY 81) / East Parrish Avenue (KY 54). Pavement markings on KY 2831 are being revised to provide offset left turn bays northbound and southbound. This will also involve asphalt milling and resurfacing. Signal modifications are also being made to accommodate the new markings. Additional signal improvements include supplemental heads for the eastbound and westbound approaches and flashing yellow left turn signals on all four approaches.

2-9004.20 - Daviess County - Frederica Street (US 431) at Goetz Drive (KY 2699) and Salem Drive (CS 1264). Medians on US 431 are being revised/removed to provide offset left turn bays northbound and southbound. The southbound left turn bay will also be extended to provide additional storage. Signs will be added to the US 60 off ramp directing traffic to the signal for access to Salem Drive. A northbound right turn lane is also being added. Widening and median replacement will include an asphalt base and asphalt surface to match existing and facilitate construction in small areas.

Goetz Drive will be milled (including milling of the existing concrete median) and resurfaced and the pavement markings will be revised to include a dual left. The northwest corner radius will be revised to accommodate truck turning movements.

Salem Drive will be widened to accommodate a right turn lane. The existing sidewalk on the south side will be removed and the existing sidewalk on the north side will be removed and replaced. Widening will include an asphalt base and asphalt surface to facilitate construction in small areas. The existing surface will also be milled and resurfaced.

To accommodate right turn lanes on Salem Drive and northbound US 431, the headwalls, drainage flumes, and ditches will be reconstructed on the east side of US 431. As a result, the roadside shoulders, fill slopes, and/or ditches will have to be modified to match the final pavement elevations and tie in with the existing ground lines. Other items required for this work include pipe extensions, channel lining, erosion control, and a Double Asphalt Seal Coat. See the Special Note for Double Asphalt Seal Coat for more information on the asphalt seal coat. Reconstruction of the ditches will be paid for under DITCH EXCAVATION as shown in the cross sections.

Some signs will need to be removed and/or relocated to construct the necessary ditching and grading for the right turn lane and pipe extension. Seek the District Traffic Engineer's approval before removing relocating any existing signs. Do not remove an existing sign until just prior to working in the vicinity of the sign. Reinstall the sign as soon as possible once the construction activities in the vicinity of the sign has reached a stage that the sign will no longer be an obstruction or interfere with the work. The intent is for the sign to be "down" the minimum length of time necessary. 200 LF of Type 1 Steel Post is provided to be used at the District Traffic Engineer's discretion.

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The Engineer will make the final determination as to the quantities required to complete the work based on the existing conditions encountered during construction. Pay items for drainage structures are identified on the drainage summary.

NOTE: Some field adjustments of the proposed grades and elevations may be required to match existing roadway grades and elevations. All proposed improvements are intended to occur within Right-of-Way. However, a consent and release form has been obtained from Wendy's and Chic-Fil-A for the construction of the improvements on Salem Drive including the removal of the existing trees outside of the Right-of-Way. See Consent and Release notes 2-9004.20 US 431 at Salem/Goetz for more details.

The signal will be reconstructed as a box span signal. Additional signal improvements include supplemental heads for the eastbound and westbound approaches and a right turn signal for the new westbound right turn lane and flashing yellow left turn signals on the three approaches with a single left turn.

There are locations within the project where Trees are to be removed. These locations shall be identified by the Engineer. Refer to the Special Note for Tree, Stump, and Brush Removal for more information.

2-9004.30 – Henderson County - US 41A at Richardson Avenue.

Construction of a barrier median type 3, signing, and pavement marking installation will be required at this location.

2-9004.40 – Mclean County - US 431 at KY 85.

Pavement marking cross hatching and guardrail delineators will be required at this location.

2-9004.50 – Henderson County – US 41A at Washington St.

Removal of existing signal heads and replacement with new retroreflective backplate signal heads will be required at this location.

2-9004.60 – Henderson County – US 41A at 5th St.

Removal of existing signal heads and replacement with new retroreflective backplate signal heads will be required at this location.

2-9008.10 – Union County – US 60 at US 60 Bypass/KY 3393

Removal of existing signal heads and replacement with new retroreflective backplate signal heads will be required at this location. Additional signal heads will also be installed.

Install signal controller TY ATC - At this intersection, the contractor will be replacing the existing Signal Controller Type 170 with a new ATC signal controller. The Department will not measure any other hardware to complete the installation and will consider it incidental to this item of work.

Install Coordinating Unit – The contractor shall contact the signal system branch (502-782-5543/502-782-5547 or email joe.thompson@ky.gov/larry.irish@ky.gov) to arrange the programming of the router used for communication in the traffic signal a minimum of two (2) working days prior to arrival. Failure to provide this advance notice could result in long delays or refusal to distribute equipment upon arrival.

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2-9008.30 – Christian County – KY 1682 at KY 109

Removal of existing signal heads and replacement with new retroreflective backplate signal heads will be required at this location. Additional signal heads will also be installed.

REMOVE SIGNAL EQUIPMENT

At the intersections of US 41A & Washington Street, US 41A & 5th Street, US 60 at US 60 Bypass/KY 3393, and KY 1682 at KY 109 the existing signal heads shall be removed as indicated on the Plan Sheets. This work will be paid under the bid item "Remove Signal Equipment" for each intersection and will include removal of the existing signal heads and any other related signal equipment at the locations shown on the Plan Sheets and Summary Sheets. The Department will not measure for payment disposal or transportation of the equipment and materials associated with any electrical component removed, as these activities shall be incidental to the "Remove Signal Equipment" bid item.

At the intersections of Frederica Street (KY 2831) at West Parrish Avenue (KY 81) / East Parrish Avenue (KY 54), and Frederica Street (US 431) at Goetz Drive (KY 2699) and Salem Drive (CS 1264) the signal equipment shall be removed as indicated on the Plan Sheets. This work will be paid under the bid item "Remove Signal Equipment" and will include removal of the signal heads, mast arm poles, and any other related signal equipment at the locations shown on the Plan Sheet and Summary Sheet. Once the mast arm poles are removed, the foundations shall be removed to a depth of one foot below finished grade, backfill any voids and regrade and dress the area to blend with the surrounding groundline. The Department will not measure for payment backfilling, regrading and dressing, disposal or transportation of the equipment and materials associated with any structural or electrical component removed. These activities shall be incidental to the "Remove Signal Equipment" bid item.

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.

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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.

SPECIAL NOTE FOR STAKING

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. 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. 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. Provide the District Traffic Engineer with 2 weeks' notice of when the project will be ready for a review of the staked locations. Sign installation shall not begin until approval of the final staked locations is given by the District Traffic Engineer.
3. 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, lane separator curbs, etc. Adjust as necessary to accommodate the existing site conditions and to provide proper alignment of the proposed thru and turning lanes. Refer to the Cross-Hatch Pavement Markings Detail and/or the Chevron Pavement Markings Detail for information and guidance on placement of the thermoplastic cross-hatch pavement markings and/or thermoplastic chevron pavement markings. Refer to the Yield Bar Pavement Marking Detail for information and guidance on placement of the thermoplastic yield bars. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the thermoplastic chevron pavement markings.
4. Prior to incorporating into the work, obtain the Engineer's approval of all revisions determined by the Contractor.
5. Perform any and all other staking operations required to control and construct the work.

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SPECIAL NOTE FOR FIBER REINFORCEMENT OF ASPHALT

PART 1 – GENERAL

1.1 DESCRIPTION

This Section includes specifications for furnishing all materials, equipment, labor, and incidentals for mixing aramid fiber reinforcements to hot mix asphalt.

1.2 DEFINITIONS

- A. HMA- hot mix asphalt, without aramid fiber.
- B. WMA- warm mix asphalt, without aramid fiber.
- C. Reinforced HMA - hot mix asphalt including aramid fibers properly proportioned, uniformly mixed and coated with asphalt.
- D. Aramid fiber - pure aramid fiber meeting the material properties of this specification, without additive materials.
- E. Delivery material(s) - the material(s) combined with the pure aramid fiber to facilitate Aramid fiber and HMA/WMA proportioning, uniform mixing with the HMA/WMA, and asphalt coating of the aramid fibers.
- F. Aramid product - the aramid supplier’s mixture of pure aramid fiber and delivery material(s).
- G. Manufacturer - the company that produces the aramid fiber from raw materials.
- H. Supplier - the company that offers an aramid product.

PART 2 – PRODUCT

2.1 MATERIALS

Meet the following aramid fiber properties.

Property	Measure	Standard
Material	Aramid	ASTM D276
Form	Monofilament fibers	Manufacturer Certification
Length	0.75 inches (+/- 10%)	Manufacturer Cert.
Specific Gravity	1.44	ASTM D276
Minimum Tensile Strength	400,000 psi	ASTM D3379
Maximum Tensile Elongation	1.8 %	ASTM D3379
Degradation Temperature	800 degrees F	ASTM D276
Acid and Alkali Resistance	Inert	Manufacturer Cert.

2.2 SUBMITTALS

Submit the following.

- A. Identify the mixing plant.
- B. Provide a specification sheet from the aramid fiber manufacturer.
- C. Provide the following from the aramid product supplier at least three weeks prior

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to HMA/WMA production.

1. The supplier's specified mix rate for the aramid product.
2. Certification that the amount of aramid fiber in the aramid product will be between 2.1 and 4.0 ounces of pure aramid fiber for each ton of hot mix asphalt.
3. Evidence showing how many times, if any, the supplier's fiber product has been successfully produced at the asphalt plant to be used for the project.
4. Proven method of introducing the aramid fibers into the hot mix asphalt which will not cause the aramid fibers to become airborne.

2.3 JOB MIX FORMULA

When aramid fiber is required as a mixture ingredient, modification to the job mix formula is not required.

PART 3 – EXECUTION

3.1 CONSTRUCTION REQUIREMENTS

Store aramid product in a dry environment and do not allow them to be in contact with moisture.

Mix 3.0 ounces (+/- 1.0 ounces) of aramid fibers per ton of asphalt. The weight applied is for pure aramid fibers only, weight of any delivery materials is not considered.

Have a fiber supplier's representative on site during the first day of production mixing. This requirement can be waived if fiber supplier and HMA/WMA producer can supply evidence of supplier's brand of fiber product being successfully produced by the HMA/WMA producer. The fiber supplier's representative may be on site for additional days as requested by the Engineer.

Introduce the aramid product as follows:

1. Batch Plant

When a batch type plant is used, add the aramid product dosage to the aggregate in the weigh hopper. This may be done with loose fibers and a fiber metering device, or may be done by using manual dosing equipment. If necessary, increase the batch dry mixing time to ensure the aramid fibers are uniformly distributed prior to the injection of asphalt cement into the mixer.

2. Drum Plant

When a continuous or drier-drum type plant is used, add the aramid product to the RAP material to uniformly disperse with the aggregate and injected asphalt. Use a separate aramid product metering device feed system to proportion by weight of total mix,

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the required percentage of fiber reinforcement into the mixture. Control the aramid product metering system with a proportioning device to meet the dosing requirements.

When a continuous or drier-drum type plant is used for limited production volumes, the addition of the aramid product may be done by using manual measuring tools or equipment and adding them directly onto the RAP belt or into the RAP opening on the plant. Because this is not an automated process, a written protocol must be supplied by the producer to demonstrate how they will attain the dosage requirement, and documentation must be supplied by the material manufacturer assuring this method will produce the desired uniform aramid fiber distribution.

Mix the aramid fiber with the aggregate longer, if needed, to allow thorough distribution of aramid fibers at the end of the mixing process and to promote asphalt coating of individual strands of aramid fiber. At the start of any fiber mixing, visually observe the reinforced HMA/WMA at the plant and in first three trucks at the point of discharge and prior to delivery to the job site. Observation shall include using a shovel or other device. Look for proper distribution of aramid fibers and make mixing adjustments if needed.

WMA: Use of a feeder system will be required for both Drum and Batch plants when producing Warm Mix Asphalt to ensure correct distribution and coating of the aramid fibers. This requirement maybe waved if the asphalt producer can demonstrate complete melting of the delivery material and proper incorporation of the aramid fibers into the WMA.

3.2 ACCEPTANCE

Acceptance of the reinforced HMA/WMA will include the following factors:

1. Aramid fiber is properly proportioned based on documentation comparing fiber feed to HMA/WMA mix production. A log of the total amount of aramid fibers applied certified by fiber manufacturer/supplier shall be required daily.
2. By visual inspection at the end of the mixing process, there is no clumping of aramid fiber or aramid delivery product and the aramid fibers are uniformly distributed.
3. All other mixture and density requirement of the asphalt as detailed in the Standard Specifications, current edition, shall apply.

PART 4 - MEASUREMENT AND PAYMENT

The Department will measure the quantity of Fiber Reinforcement for HMA/WMA as ton of asphalt placed with fibers. Each ton of asphalt placed with the aramid fibers according to this special note will be measured and paid for at the contract unit bid price per ton, and shall include full compensation for furnishing all labor, tools, equipment, and incidentals for doing all the work involved in

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adding the fibers to HMA/WMA.

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24785EC	Fiber Reinforcement for HMA	Tons

SPECIAL NOTE FOR EROSION CONTROL

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

Erosion Control Blanket. If required by the BMP, the Department will measure Erosion Control Blanket according to Section 212.04.07.

Sodding. If required by the BMP, the Department will measure Sodding according to Section 212.04.08.

Channel Lining. If required by the BMP, the Department will measure Erosion Control Blanket according to Sections 703.04.04 through 703.04.07.

Erosion Control. Contrary to Sections 212.04, 213.04 and 703.04, other than Erosion Control Blanket, Sodding, and Channel Lining, the Department will measure "Erosion Control" as one lump sum. The Department will not measure developing, updating, and maintaining a BMP plan for each site; providing a KEPSC qualified inspector; locating furnishing, installing, inspecting, maintaining, and removing erosion and water pollution control items; Roadway Excavation, Borrow Excavation, Embankment In Place, Topsoil Furnished and Placed, and Spreading Stockpiled Topsoil; Topdressing Fertilizer, Temporary and Permanent Seeding and Protection, Special Seeding Crown Vetch, and Temporary Mulch; Sedimentation Basin and Clean Sedimentation Basin, Silt Trap Type "A" and Clean Silt Trap Type "A"; Silt Trap Type "B" and Clean Silt Trap Type "B"; Silt Trap Type "C" and Clean Silt Trap Type "C"; Temporary Silt Fence and Clean Temporary Silt Fence; Plants, Vines, Shrubs, and Trees; Gabion and Dumped Stone Deflectors and Riffle Structures; Boulders; Temporary Ditches and clean Temporary Ditches; Geotextile Fabric, and all other erosion and water pollution control items required by the BMP or the Engineer, but shall be incidental to Erosion Control.

V. BASIS OF PAYMENT

Erosion Control Blanket. If not listed as a bid item, but required by the BMP, the Department will pay for Erosion Control Blanket as Extra Work according to Sections 104.03 and 109.04.

Sodding. If not listed as a bid item, but required by the BMP, the Department will pay for Sodding as Extra Work according to Sections 104.03 and 109.04.

Channel Lining. If not listed as a bid item, but required by the BMP, the Department will pay for Channel Lining as Extra Work according to Sections 104.03 and 109.04.

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Erosion Control. Contrary to Sections 212.05 and 213.05, other than Erosion Control Blanket, Sodding, and Channel Lining, payment at the Contract lump sum price for “Erosion Control”, shall be full compensation for all materials, equipment, labor and incidentals necessary to complete the erosion and water pollution control work as specified in these notes, Sections 212 and 213, the Supplemental Specifications, applicable Special Provisions and Special Notes, and Standard and Sepia Drawings, including but not limited to developing, updating, and maintaining a BMP plan for each site; providing a KEPSC qualified inspector; locating, furnishing, installing, inspecting, maintaining, and removing erosion and water pollution control items; Roadway Excavation, Borrow Excavation, Embankment In Place, Topsoil Furnished and Placed, and Spreading Stockpiled Topsoil; Topdressing Fertilizer, Temporary and Permanent Seeding and Protection, Special Seeding Crown Vetch, and Temporary Mulch; Sedimentation Basin and Clean Sedimentation Basin, Silt Trap Type “A” and Clean Silt Trap Type “A”; Silt Trap Type “B” and Clean Silt Trap Type “B”; Silt Trap Type “C” and Clean Silt Trap Type “C”; Temporary Silt Fence and Clean Temporary Silt Fence; Plants, Vines, Shrubs, and Trees; Gabion and Dumped Stone Deflectors and Riffle Structures; Boulders; Temporary Ditches and clean Temporary Ditches; Geotextile Fabric and all other erosion and water pollution control items required by the BMP or the Engineer.

SPECIAL NOTES FOR PIPE REPLACEMENTS / EXTENSIONS

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.

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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

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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

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

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 shown on the plans and the type of work listed herein are approximate only and are not to be taken as an accurate evaluation of the materials and conditions to be encountered during construction; the bidder must draw their own conclusions. The Department does not give any guarantee as to the accuracy of the data and no claim for money or time extension will be considered if the conditions encountered are not in accordance with the information shown.

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.

IV. METHOD OF MEASUREMENT

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

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- 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.
- 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

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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 NOTE FOR TREE, STUMP, AND BRUSH REMOVAL

I. DESCRIPTION

All work shall be performed in accordance with the Department's current Standard Specifications for Road and Bridge Construction and applicable Special Provisions, except as hereafter specified. Article references are to the Standard Specifications.

This work shall consist furnishing all equipment, labor, materials, and incidentals for the following: (1) Site Preparation; (2) Maintaining and controlling traffic; (3) Temporary erosion control and temporary pollution control; (4) Cutting, trimming, and/or removing trees, stumps, and/or brush as specified or directed by the Project Engineer; (5) Treating all cut stumps required by Project Engineer to prevent re-sprouting; (5) Clean up and disposal of waste; (6) Final dressing and seeding and protection; and (7) 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.** The Contractor shall maintain and control traffic in accordance with the Traffic Control Plan.
- B. Seeding and Protection.** Use applicable Seed Mixture as specified per Section 212.03.03.
- C. Erosion Control.** See the Special Note for Erosion Control.

III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic.** The Contractor shall maintain and control traffic in accordance with the Traffic Control Plan.
- B. Cutting, Trimming, and/or Removing Trees, Stumps, and/or Brush.** The Contractor shall cut trees and/or bushes as close to the ground as possible; three inches (3") or less from ground line. Any tree trimming listed in the proposal shall be cleared as shown on the Tree Trimming Detail. Grinding of all tree stumps within the mowing zone shall be required as directed by the Engineer. All stumps that are listed on the summary and/or directed by the Engineer to be removed, are to be removed via mechanical grinding, or other methods approved by the Engineer, to a minimum depth of four (4) inches below the surrounding grade line. For trees that are cut, but will not be required to have their stump removed, treat the stump, within one hour of cutting, with the specified herbicide solution.

Tree, Stump, & Brush Removal

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Replace and level any and all soil disturbed during the tree, stump, and/or brush removal and/or tree trimming operations. Leave the soil in a condition suitable for seeding that is level with the surrounding soil grade, with no holes or indentions to catch water or present unsafe mowing conditions. This work will be incidental to the bid items "Remove Trees or Stumps" and/or "Trim and Remove Trees and Brush."

NOTE: Tree cutting restrictions apply. See the Special Note for Tree Removal for details on the restrictions.

- C. Removal of Tree, Stump, and Brush Debris.** The Contractor will remove all debris and biomass from the trimming and/or removal of trees, stumps, and/or brush from the work site and dispose of such off the right-of-way in accordance with local, state, and federal solid waste laws and regulations. Cleanup and remove all existing down trees and brush located within the designated areas. At the discretion of the Project Engineer, the contractor may be permitted to chip and blow biomass onto non-mowing zones. Chips shall not be blown onto areas that would potentially restrict the flow of water in drainage ditches. All un-chipped biomass must be removed from roadway right-of-ways.

The Contractor shall keep the work zone free of accumulated waste material and debris at all times. Remove and dispose of all tree, stump, and brush chips off the right-of-way. Remove and dispose of all debris and waste material off the right-of-way as work is completed and at the end of each workday. Remove desirable wood pieces from the right-of-way at the end of each workday. Stockpile trees and brush off the right-of-way. At the discretion of the Project Engineer, the Contractor may be permitted to stockpile trees and brush at approved locations along the right-of-way.

The Contractor shall immediately correct any disturbance to all drainage features and structures caused by the Contractor's work.

- D. Stump Treatment.** Within one hour of cutting, the Contractor shall apply a stump treatment mix consisting of fifty percent (50%) Glyphosate (EPA Reg. No. 524-579) with water and add twelve (12) ounces of Imazapyr (EPA Reg. No. 241-431), as specified, per gallon of solution. The addition of a non-ionic surfactant 5% (v/v) shall be added to the solution to increase uptake of the herbicide solution into the root system. Generic formulations are not acceptable. Mix the herbicide solution in the presence of the Inspector. Include a color indicator in the herbicide solution to mark the treated stumps. Spray or paint the herbicide solution onto all cut stumps within one hour after cutting. Apply the herbicide solution in a manner to avoid drift onto surrounding vegetative ground cover. Stumps in the mowing zone, designated for mechanical grinding treatment, need not receive the herbicide treatment.

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Provide herbicide material for the treatment of cut stumps meeting the following criteria:

a. **Glyphosate**

Active ingredient: **(Glyphosate)**
*Glyphosate, N-(phosphonomethyl)glycine, in the form of its
potassium salt..... 48.7%
Inert ingredients 51.3%
Total 100.0%
* Contains 660 grams per liter or 5.5 pounds per U.S. gallon of the active
ingredient glyphosate, in the form of its potassium salt. Equivalent to 540
grams per liter or 4.5 pounds per U.S. gallon of the acid, glyphosate.
EPA Reg. No. 524-579

b. **Imazapyr**

Active ingredient: **(Imazapyr)**
*Isopropylamine salt of Imazapyr 2-[4,5-dihydro-4-methyl-4-(1methylethyl)-
5oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid) 26.7%
Inert ingredients 73.3%
Total 100%
* Equivalent to 21.8 percent 2-[4,5-dihydro-4-methyl-4-(1methylethyl)-5oxo-
1H-imidazolyl]-3-pyridinecarboxylic acid or 2 pounds acid per gallon.
EPA Reg. No. 241-431

KRS 217B requires that any individual who applies pesticides to Kentucky Highway Right-of-Way areas must be certified as a Pesticide Applicator under Category 6 guidelines. Comply with all current laws and regulations established by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and by KRS 217B that regulate the handling, use, and application of pesticides.

- E. Property Damage.** The Contractor will be responsible for all damage to public and/or private property resulting from his work.
- F. Coordination with Utility Companies.** NOTICE: Utility locations shown in the plans are approximate and have not been specifically located by the Department. Locate all underground, above ground and overhead utilities prior to beginning construction. The Contractor shall have the responsibility 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 Utility Owner while they relocate their facilities. The Contractor shall be responsible for repairing all utility damage that occurs as a result of his operations.

Tree, Stump, & Brush Removal
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- G. Right-of-Way Limits.** The exact limits of the Right-of-Way have not been established by the Department. The Contractor shall limit his activities to obvious Right-of-Way, permanent or temporary easements, and any work areas secured by consent and release of the adjacent property owners. The Contractor shall be responsible for all encroachments onto private lands.
- H. Clean Up, Disposal of Waste.** Clean up and dispose of all removed debris by the end of each work day, 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 clean up or disposal of waste and debris from the project. See the Special Provision for Waste and Borrow Sites.
- I. Final Dressing, Seeding and Protection.** Apply final dressing, class A to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the appropriate Seed Mixture as specified in Section 212.03.03.
- J. 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 the project bid items.
- C. Remove Trees or Stumps.** The Department will measure the quantity as each tree or stump removed. Trees or stumps to be removed under this bid item are those listed on the Plans or in this Proposal, or as directed by the Engineer.
- D. Trim & Remove Trees & Brush.** The Department will measure the quantity by linear foot, per side of the highway. See the Tree Trimming Detail for the horizontal and vertical trimming dimensions. The horizontal width is taken from the edge of pavement measured perpendicular to the roadway but not to extend beyond the obvious Right-of-Way limits, or as directed by the Engineer.
- E. Stump Treatment.** The Department will NOT measure for payment the operation of Stump Treatment. This activity shall be incidental to the bid items "Remove Trees or Stumps" and/or "Trim & Remove Trees & Brush".
- F. Clean Up, Disposal of Waste.** The Department will NOT measure for payment the operations of Clean Up and Disposal of Waste. These activities shall be incidental to the project bid items.

Tree, Stump, & Brush Removal
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G. Final Dressing, Seeding and Protection. The Department will NOT measure for payment the operations of Final Dressing. Seeding and Protection will be measured according to Section 212.

H. 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 Trees or Stumps. The Department will make payment for the completed and accepted quantities of each tree or stump removed. The Department will consider payment at the contract unit price as full compensation for furnishing all materials, equipment, labor, other expenses, and all incidentals necessary to complete the work of removing the trees and/or stumps.

C. Trim & Remove Trees & Brush. The Department will make payment for the completed and accepted quantities per linear foot. The Department will consider payment at the contract unit price as full compensation for furnishing all materials, equipment, labor, other expenses, and all incidentals necessary to complete the work of trimming and removing the trees and/or brush.

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

SPECIAL NOTES FOR COMPLETION DATES & LIQUIDATED DAMAGES

The ultimate fixed completion date for this project will be November 30, 2019. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

The Department will assess Liquidated Damages in the amount of \$500 per lane per hour for each hour, or fraction of an hour, for any lane closures left in place during non-working hours and/or during times prohibited by the Engineer or the Traffic Control Plan.

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 NOTE FOR ASPHALT MILLING AND TEXTURING

Begin paving operations within **48 hours** of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, the Department will assess liquidated damages at the rate prescribed by Section 108.09 until such time as paving operations are begun.

Take possession of the millings and recycle the millings or dispose of the millings off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department.

1-3520 48 hours Contractor keeps millings
01/2/2012

TRAFFIC CONTROL PLAN

TRAFFIC CONTROL GENERAL

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

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

PROJECT PHASING & CONSTRUCTION PROCEDURES

At locations with three or more lanes, maintain one lane of traffic in each direction at all times during construction. At locations with two lanes, maintain alternating one way traffic during construction. Provide a minimum clear lane width of 12 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 on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

No lane closures will be allowed on the following dates:

Easter Weekend,	Friday, April 19, 2019 – Sunday, April 21, 2019
Memorial Day Weekend	Friday, May 24, 2019 – Monday, May 27, 2019
Independence Day Weekend	Thursday, July 4, 2019 – Sunday, July 7, 2019
Labor Day Weekend	Friday, August 31, 2018 – Monday, September 3, 2018
Thanksgiving	Wednesday, November 27 – Sunday, December 1, 2019

The Engineer may specify additional days and hours when lane closures will not be allowed. The Department will provide public notification regarding approved 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.

For required entrance work on Salem Drive the contractor shall coordinate with the effected property owners (Fairfield Inn, Chick Fil A, and Bridgewater Medical Center). The contractor shall provide a 2-week notice prior to entrance work beginning and the approximate duration the entrance work will take.

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LANE CLOSURES

Do not leave lane closures in place during non-working hours or prohibited periods, unless otherwise approved by the Engineer. No long-term lane closures (more than 3 days) will be allowed; therefore, lane closures will not be measured for payment.

TEMPORARY SIGNS

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

ARROW PANELS

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will not measure nor make direct payment for arrow panels. They shall be considered incidental to Maintain and Control Traffic. Retain possession of the Arrow Panels upon completion of the work.

BARRICADES

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

CHANGEABLE MESSAGE SIGNS

If deemed necessary by the Engineer, Changeable Message Signs will be provided by the Department. The Contractor may be asked to assist in the placement and setup of the changeable message signs. Changeable message signs are to be placed in advance of and within the project at locations determined by the Engineer. The Engineer may vary the designated locations as the work progresses. The Engineer will determine the messages to be displayed.

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PAVEMENT MARKINGS

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

If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course, use an approved removable lane tape; however, the Department will not measure removable lane tape for separate payment, but will measure and pay for removable lane tape as temporary striping.

PAVEMENT EDGE DROP-OFFS

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

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

Less than 2" - No protection required.

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

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

Pedestrians & Bicycles - Protect pedestrian and bicycle traffic as directed by the engineer.

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USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

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

Application

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

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

CMS should not be used for:

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

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Messages

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

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

Placement

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

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

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Standard Abbreviations

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

<u>Word</u>	<u>Abbrev</u>	<u>Example</u>
Access	ACCS	ACCIDENT AHEAD/ USE ACCS RD NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/ USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/ DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/ MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/ USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/ USE ALT RTE
Cardinal Directions	N, S, E, W	N 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)

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

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

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



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:

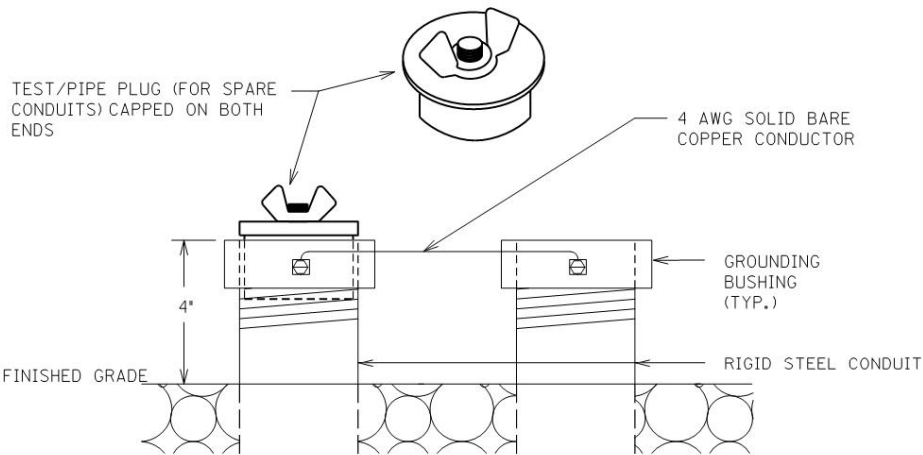
4.1 Loop Test. The Department will measure the quantity as each individual unit loop tested. The Department will not measure disconnection, reconnection, traffic control, re-splicing per specifications, before and after testing per note above, and any associated hardware for payment and will consider 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 ¹
Loop Saw Slot and Fill	4895	Linear Foot ¹
Bore and Jack Conduit	21543EN	Linear Foot ³
Open Cut Roadway	4821	Linear Foot ³

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

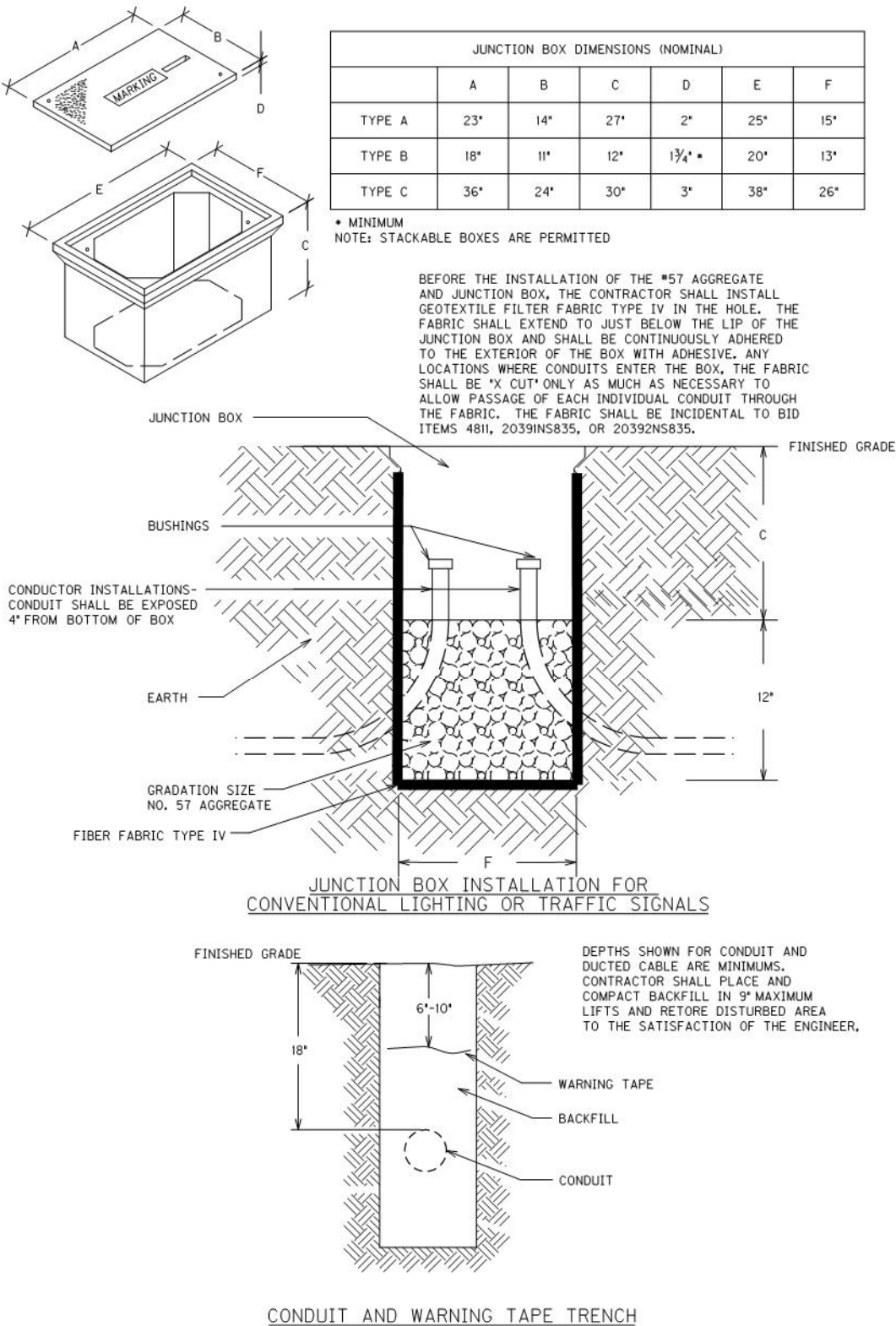
Traffic Signal Loop Detectors
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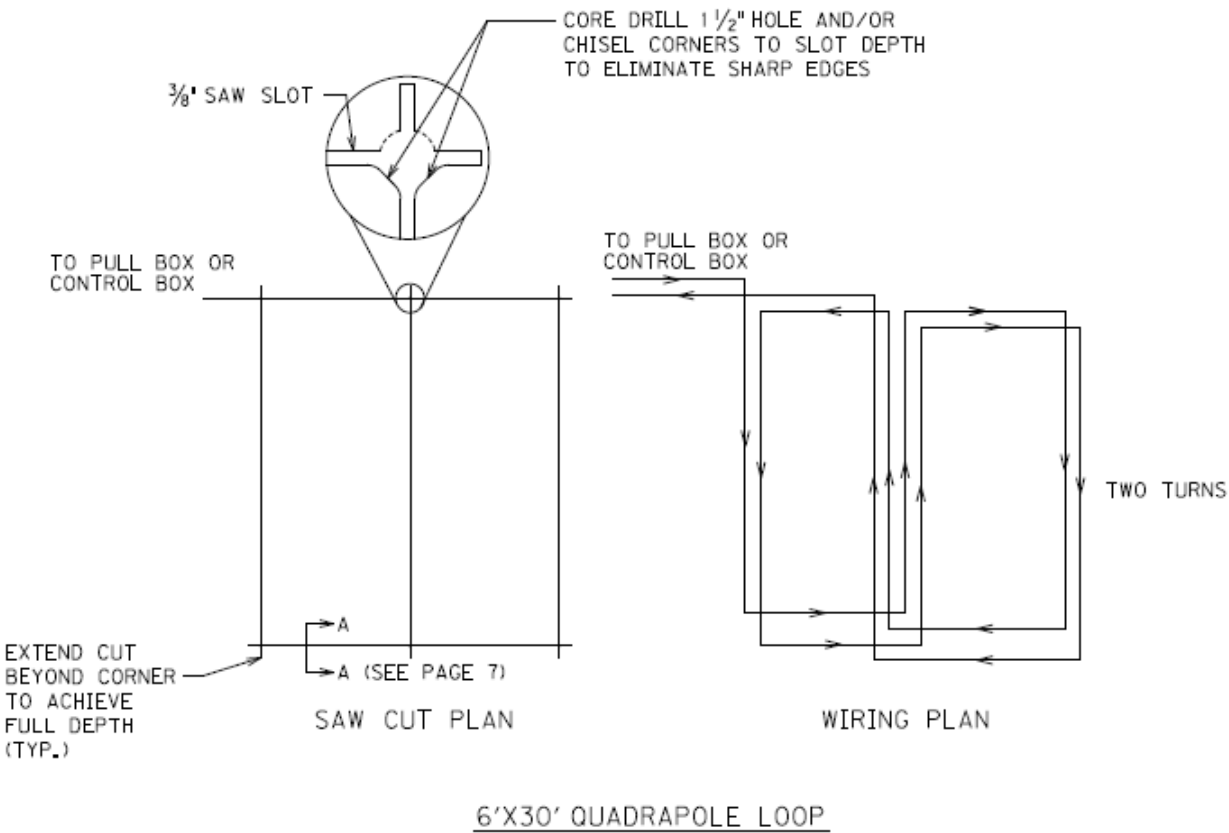
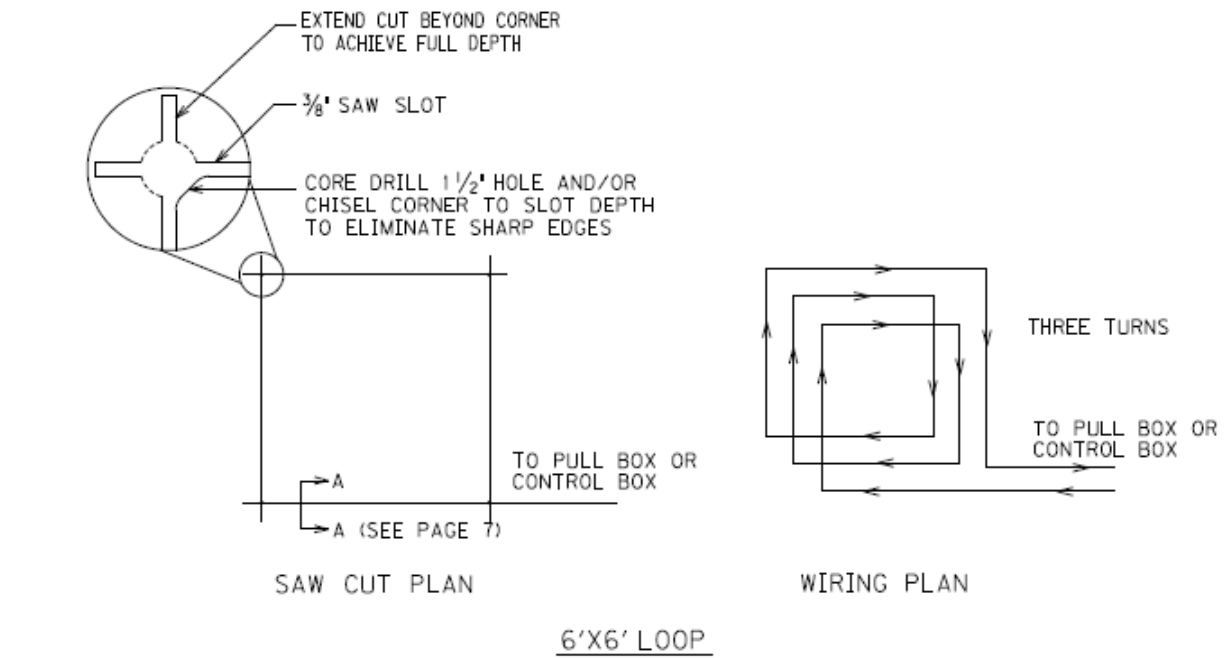
TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL

Traffic Signal Loop Detectors

Page 6 of 8

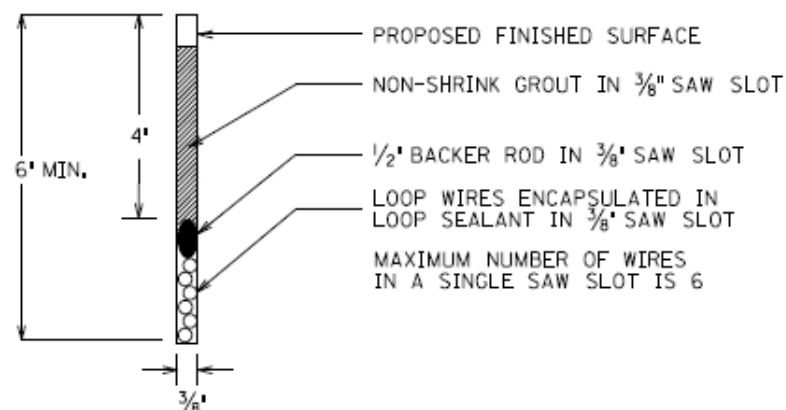


Traffic Signal Loop Detectors
Page 7 of 8

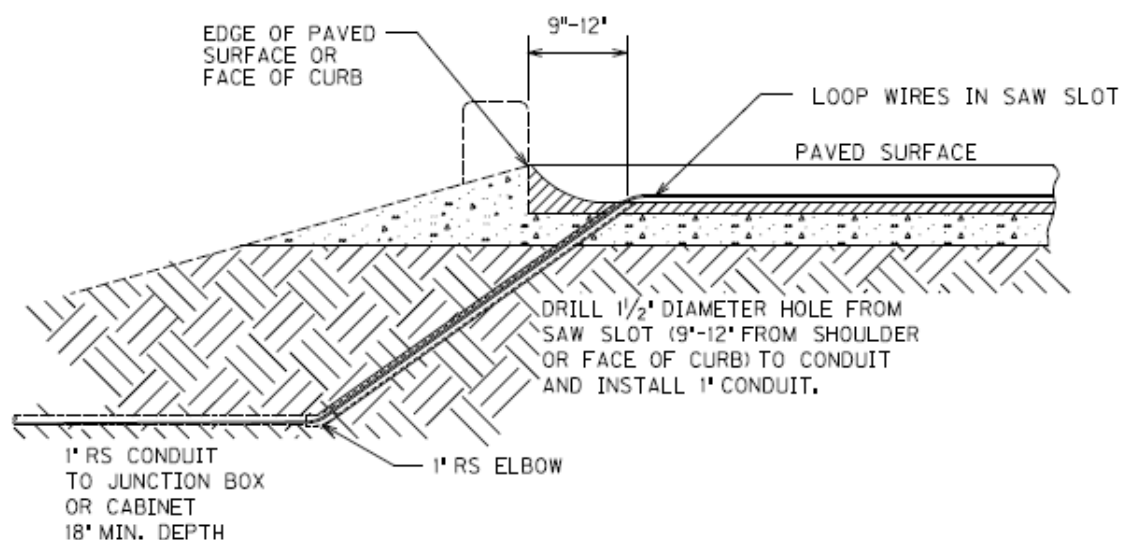


Traffic Signal Loop Detectors

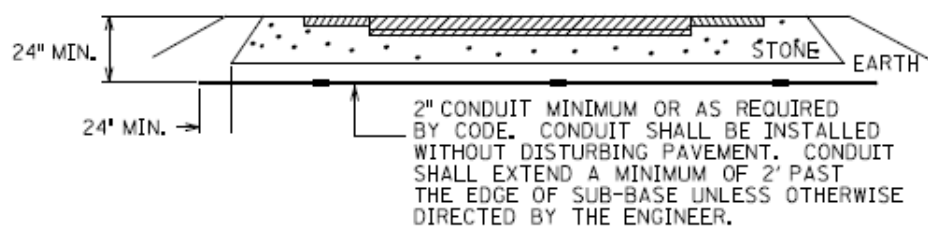
Page 8 of 8




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	TC 62-226 Rev. 01/2016 Page 1 of 1
RIGHT OF WAY CERTIFICATION		

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #		COUNTY		PROJECT # (STATE)	PROJECT # (FEDERAL)
2-9004.10		Davies		FD52 030 2831 002-003	HSIP 9010 (308)
PROJECT DESCRIPTION					
Offset left turn lanes along KY 2831, install signal heads, and update left turn signal heads to include flashing arrow at intersection of KY 2831, KY 54, and KY 81					
<input checked="" type="checkbox"/> 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.					
<input type="checkbox"/> 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.					
<input type="checkbox"/> 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					
<input type="checkbox"/> 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		EXCEPTION (S) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
Notes/ Comments (Use Additional Sheet if necessary)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name			Printed Name	Jennifer K. Cox	
Signature			Signature		
Date			Date	2018.04.13 10:02:15 -05'00'	
Asst. Right of Way Director			FHWA		
Printed Name	Kelly R. Divine		Printed Name	No Signature Required	
Signature			Signature	as per FHWA-KYTC	
Date	4/13/18		Date	Current Stewardship Agreement	



KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF RIGHT OF WAY & UTILITIES

TC 62-226
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Page 1 of 1

RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
2-9004.20	Daviess	FD52 030 0431 011-012	HSIP 4311 (041)
PROJECT DESCRIPTION			
Construct turn lane improvements, rebuild the traffic signal, update the striping at the intersection of US 431 and Goetz/Salem Drive.			
<input checked="" type="checkbox"/> 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.			
<input type="checkbox"/> 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.			
<input type="checkbox"/> 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			
<input type="checkbox"/> 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	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired			
Signed Deed			
Condemnation			
Signed ROE			
Notes/ Comments (Use Additional Sheet if necessary)			
LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Jennifer K. Cox
Signature		Signature	2018.04.13 10:00:50
Date		Date	-05'00'
Asst. Right of Way Director		FHWA	
Printed Name	Kelby R. Divine	Printed Name	No Signature Required
Signature	Kelby R. Divine	Signature	as per FHWA-KYTC
Date	4/13/18	Date	Current Stewardship Agreement

Consent and Release Notes 2-9004.20 US 431 at Salem/Goetz

Property Owner:

LV Associates LLC

Description & Location of Work:


Removal of trees, sidewalk, and curb/gutter to construct pavement widening within State and City of Owensboro Right of Way. Removed sidewalk and curb/gutter will be replaced with the project. See proposal files for exact locations of work.

Property Owner:

Chick Fil A Inc


Description & Location of Work:


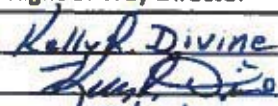
Removal of trees, sidewalk, and curb/gutter to construct pavement widening within State and City of Owensboro Right of Way. There is an irrigation system within the disturb limits that will be disconnected from service by the contractor. This work will be incidental to roadway excavation. The contractor will be required to coordinate with the property owner. Removed sidewalk will not be replaced with the project. See proposal files for exact locations of work.


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



<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)		PROJECT # (FEDERAL)	
2-9004.30	Henderson	FD52 051 041A 017-018		HSIP 9010 (309)	
PROJECT DESCRIPTION					
Reconstruct and close off the concrete median and update the striping and signing at the Intersection of US 41A & Richardson Ave					
<input checked="" type="checkbox"/> 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.					
<input type="checkbox"/> 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.					
<input type="checkbox"/> 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					
<input type="checkbox"/> 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		EXCEPTION (S) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
Notes/ Comments (Use Additional Sheet if necessary)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name			Printed Name		
Signature			Signature		
Date			Date		
<i>Asst. Right of Way Director</i>			FHWA		
Printed Name			Printed Name		
Signature			Signature		
Date			Date		


No Signature Required
as per FHWA-KYTC
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
	RIGHT OF WAY CERTIFICATION	

<input checked="" type="checkbox"/> Original <input type="checkbox"/> Re-Certification		RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
2-9004.40	McLean	FD52 075 0431 002-004	HSIP 4311 (040)
PROJECT DESCRIPTION			
Update the striping/pavement markings and install guardrail delineators near the intersection of US 431 & KY 85			
<input checked="" type="checkbox"/> 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.			
<input type="checkbox"/> 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.			
<input type="checkbox"/> 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			
<input type="checkbox"/> 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		EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired			
Signed Deed			
Condemnation			
Signed ROE			
Notes/ Comments (Use Additional Sheet if necessary)			
LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Jennifer K. Cox
Signature		Signature	 2018.03.19
Date		Date	13:35:25 -05'00'
Asst. Right of Way Director		FHWA	
Printed Name	Kelly R. Divine	Printed Name	
Signature		Signature	No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Date	3/19/18	Date	

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


<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)		
2-9004.50	Henderson	FD52 051 041A 015-016	HSIP 9010 (310)		
PROJECT DESCRIPTION					
Install reflective backplates and update the left turn signal heads to include flashing yellow arrow at the Intersection of US 41A & Washington St					
<input checked="" type="checkbox"/> 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.					
<input type="checkbox"/> 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.					
<input type="checkbox"/> 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					
<input type="checkbox"/> 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		EXCEPTION (S) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
Notes/ Comments (Use Additional Sheet if necessary)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name			Printed Name	Jennifer K. Cox	
Signature			Signature		
Date			Date	2018.03.19	
Asst. Right of Way Director			FHWA		
Printed Name	Kelly R. Divine		Printed Name	No Signature Required	
Signature			Signature	as per FHWA-KYTC	
Date	3/19/19		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
RIGHT OF WAY CERTIFICATION		


<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #		COUNTY		PROJECT # (STATE)	PROJECT # (FEDERAL)
2-9004.60		Henderson		FD52 051 041A 016-017	HSIP 9010 (311)
PROJECT DESCRIPTION					
Install reflective backplates and update the left turn signal heads to include flashing yellow arrow at the Intersection of US 41A & 5th St					
<input checked="" type="checkbox"/> 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.					
<input type="checkbox"/> 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.					
<input type="checkbox"/> 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					
<input type="checkbox"/> 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		EXCEPTION (S) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
Notes/ Comments (Use Additional Sheet if necessary)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name			Printed Name		
Signature			Signature		
Date			Date		
<i>Asst.</i> Right of Way Director			FHWA		
Printed Name			Printed Name		
Signature			Signature		
Date			Date		




LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	
Signature		Signature	
Date		Date	
<i>Asst.</i> Right of Way Director		FHWA	
Printed Name		Printed Name	
Signature		Signature	
Date		Date	

LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	
Signature		Signature	
Date		Date	
<i>Asst.</i> Right of Way Director		FHWA	
Printed Name		Printed Name	
Signature		Signature	
Date		Date	

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

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)		
2-9008.10	Union	FD52 113 0060 015-016	HSIP 0601 (202)		
PROJECT DESCRIPTION					
Install supplemental signal heads, reflective backplates, and update the left turn signal heads to include flashing yellow arrow at the intersection of US 60, US 60B, & KY 3393.					
<input checked="" type="checkbox"/> 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.					
<input type="checkbox"/> 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.					
<input type="checkbox"/> 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					
<input type="checkbox"/> 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		
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
Notes/ Comments (Use Additional Sheet if necessary)					
HSIP RW Project Manager			Right of Way Supervisor		
Printed Name	Michael Vaughn		Printed Name	Jennifer K. Cox	
Signature	<i>M. Vaughn</i>		Signature	<i>J. Cox</i>	
Date	9/11/2018		Date	9/11/2018	
Asst. Right of Way Director			FHWA		
Printed Name	Kelly R. Divine		Printed Name	No Signature Required	
Signature	<i>K. Divine</i>		Signature	as per FHWA-KYTC	
Date	9/13/18		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
RIGHT OF WAY CERTIFICATION		

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)		
2-9008.30	Christian	FD52 024 1682 002-003	HSIP 9010 (314)		
PROJECT DESCRIPTION					
Install supplemental signal heads, reflective backplates, and update the left turn signal heads to include flashing yellow arrow at the intersection of KY 1682 & KY 109					
<input checked="" type="checkbox"/> 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.					
<input type="checkbox"/> 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.					
<input type="checkbox"/> 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					
<input type="checkbox"/> 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
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
Notes/ Comments (Use Additional Sheet if necessary)					
HSIP RW Project Manager			Right of Way Supervisor		
Printed Name	Michael Vaughn		Printed Name	Jennifer K. Cox	
Signature			Signature		
Date	9/11/2018		Date	9/11/2018	
Asst. Right of Way Director			FHWA		
Printed Name	Kelly R. Divine		Printed Name		
Signature			Signature	No Signature Required as per FHWA-KYTC	
Date	9/13/18		Date	Current Stewardship Agreement	

UTILITIES AND RAIL CERTIFICATION NOTE

Daviess County

HSIP 9010 (308), HSIP 9010 (041)

Improvements at the Intersection of KY 2831 @ KY 81 & KY 54
and at the Intersection of US 431 @ Goetz & Salem Drive

Item Numbers 2-9004.10 and 2-9004.20

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

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

☒ No Rail Involved ☐ Minimal Rail Involved (See Below) ☐ Rail Involved (See Below)

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.

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

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

Daviess County
HSIP 9010 (308), HSIP 9010 (041)
Improvements at the Intersection of KY 2831 @ KY 81 & KY 54
and at the Intersection of US 431 @ Goetz & Salem Drive
Item Numbers 2-9004.10 and 2-9004.20

AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
ATMOS Energy	Cody Townsend	(270) 685-8119
AT&T	Jeff Haney	(502) 302-7036
KENERGY	Garrett Owen	(270) 689-6122
Owensboro Municipal Utilities	Austin McLimore	(270) 926-3200

UTILITIES AND RAIL CERTIFICATION NOTE

Henderson and McLean Counties
HSIP 9010(309), HSIP 9010(310), HSIP 9010(311), HSIP 4311(040)
Intersection Improvements at Various Intersections
Item Nos.: 2-9004.30, 2-9004.40, 2-9004.50, 2-9004.60

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

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

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

UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation.

The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and the 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

**Henderson and McLean Counties
HSIP 9010(309), HSIP 9010(310), HSIP 9010(311), HSIP 4311(040)
Intersection Improvements at Various Intersections
Item Nos.: 2-9004.30, 2-9004.40, 2-9004.50, 2-9004.60**

AREA UTILITIES CONTACT LIST AS PROVIDED BY KY 811

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
Henderson County Intersections – Item Nos.: 2-9004.30, 2-9004.50, 2-9004.60		
1. AT&T	Glenn Shane	(270) 831-3025
2. Henderson Municipal Gas	Owen Reeves	(270) 831-1200
3. Henderson Water Utility	Tom Williams	(270) 826-2421
4. Henderson Municipal Power & Light	Marion Gross	(270) 826-2726
5. Insight Communications		(812) 428-2477
6. MCI Worldcom		(270) 826-8002
7. Windstream	Roger Redford	(502) 957-7140
McLean County Intersection – Item No.: 2-9004.40		
8. AT&T	Glenn Shane	(270) 831-3025
9. ATMOS	Chase Downie	(270) 685-8103
10. Kentucky Utilities	Todd Cartwright	(270) 543-9903
11. North McLean Water District	TC Owen	(270) 278-2800
12. Insight Communications		(877) 652-1563
13. MCI Worldcom		(270) 826-8002
14. Windstream	Roger Redford	(502) 957-7140

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.

UTILITIES AND RAIL CERTIFICATION NOTE

Union County
HSIP 0601 (202)
US 60B/KY 3393 Intersection Safety Improvement
Item Number 2-9008.10

GENERAL PROJECT NOTE ON UTILITY PROTECTION

No known utility impacts on this project.

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

N/A

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

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)

UTILITIES AND RAIL CERTIFICATION NOTE

**Union County
HSIP 0601 (202)
US 60B/KY 3393 Intersection Safety Improvement
Item Number 2-9008.10**

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.

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UTILITIES AND RAIL CERTIFICATION NOTE

Christian County
HSIP 9010 (314)
KY 1682/KY 109 Intersection Safety Improvement
Item Number 2-9008.30

GENERAL PROJECT NOTE ON UTILITY PROTECTION

No known utility impacts on this project.

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

N/A

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

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)

UTILITIES AND RAIL CERTIFICATION NOTE

**Christian County
HSIP 9010 (314)
KY 1682/KY 109 Intersection Safety Improvement
Item Number 2-9008.30**

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.

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MATERIAL SUMMARY

CONTRACT ID: 194200

121GR18T001-HSIP

0202416821801

HOPKINSVILLE BYPASS (KY 1682) IMPROVEMENTS AT THE INTERSECTION OF KY 1682 & KY 109 SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .2 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0760	02650	MAINTAIN & CONTROL TRAFFIC - (KY 1682 AT KY 109)	1.00	LS
0765	02726	STAKING - (KY 1682 AT KY 109)	1.00	LS
0770	04844	CABLE-NO. 14/5C	1,400.00	LF
0775	20188NS835	INSTALL LED SIGNAL-3 SECTION	13.00	EACH
0780	24955ED	REMOVE SIGNAL EQUIPMENT - (KY 1682 AT KY 109)	1.00	EACH
0785	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 194200

121GR18T001-HSIP

0203004311801

FREDERICA ST (US 431) IMPROVEMENTS AT THE INTERSECTION OF US 431 AND SALEM/GOETZ DRIVE. ASPHALT SURFACE WITH GRADE & DRAIN, A DISTANCE OF .17 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0405	06410	STEEL POST TYPE 1	200.00	LF
0410	06514	PAVE STRIPING-PERM PAINT-4 IN	5,283.00	LF
0415	06569	PAVE MARKING-THERMO CROSS-HATCH	66.00	SQFT
0420	06574	PAVE MARKING-THERMO CURV ARROW	19.00	EACH
0425	23839EC	REMOVE CONCRETE MEDIAN	39.00	SQYD
0430	24631EC	BARCODE SIGN INVENTORY	2.00	EACH
0435	06568	PAVE MARKING-THERMO STOP BAR-24IN	184.00	LF
0440	24679ED	PAVE MARK THERMO CHEVRON	292.00	SQFT
0445	00462	CULVERT PIPE-18 IN	26.00	LF
0450	01011	NON-PERFORATED PIPE-6 IN	4.00	LF
0455	01025	PERF PIPE HEADWALL TY 2-6 IN	1.00	EACH
0460	01310	REMOVE PIPE	4.00	LF
0465	01811	STANDARD CURB AND GUTTER MOD	585.00	LF
0470	01875	STANDARD HEADER CURB	37.00	LF
0475	01890	ISLAND HEADER CURB TYPE 1	10.00	LF
0480	01915	STANDARD BARRIER MEDIAN TYPE 1	118.00	SQYD
0485	02099	CEM CONC ENT PAVEMENT-6 IN	45.00	SQYD
0490	02200	ROADWAY EXCAVATION	1,105.00	CUYD
0495	02460	REMOVE TREES OR STUMPS	8.00	EACH
0500	02483	CHANNEL LINING CLASS II	14.00	TON
0505	02625	REMOVE HEADWALL	2.00	EACH
0510	02650	MAINTAIN & CONTROL TRAFFIC - (US 431 AT SALEM/GOETZ DRIVE)	1.00	LS
0515	02676	MOBILIZATION FOR MILL & TEXT - (US 431 AT SALEM/GOETZ DRIVE)	1.00	LS
0520	02677	ASPHALT PAVE MILLING & TEXTURING	247.00	TON
0525	02726	STAKING - (US 431 AT SALEM/GOETZ DRIVE)	1.00	LS

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0530	02720	SIDEWALK-4 IN CONCRETE	73.00	SQYD
0535	02721	REMOVE CONCRETE SIDEWALK	130.00	SQYD
0540	06407	SBM ALUM SHEET SIGNS .125 IN	22.30	SQFT
0545	06598	PAVEMENT MARKING REMOVAL	120.00	SQFT
0550	20430ED	SAW CUT	1,768.00	LF
0555	20597EC	DITCH EXCAVATION	180.00	CUYD
0560	21415ND	EROSION CONTROL - (US 431 AT SALEM/GOETZ DRIVE)	1.00	LS
0565	21596ND	GMSS TYPE D - SURFACE MOUNT	4.00	EACH
0570	22664EN	WATER BLASTING EXISTING STRIPE	54.00	LF
0575	24575ES610	HEADWALL - (SLOPED & MITERED CONCRETE - FOR 18 INCH PIPE)	2.00	EACH
0580	24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN - (6" WIDTH)	28.00	LF
0585	22045NN	FLUME INLET TY 2-MOD	2.00	EACH
0590	21813NN	REMOVE AND RELOCATE SHEET SIGNS	18.00	EACH
0595	04844	CABLE-NO. 14/5C	1,527.00	LF
0600	20188NS835	INSTALL LED SIGNAL-3 SECTION	11.00	EACH
0605	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0610	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
0615	04792	CONDUIT-1 IN	21.00	LF
0620	04811	ELECTRICAL JUNCTION BOX TYPE B	4.00	EACH
0625	04820	TRENCHING AND BACKFILLING	106.00	LF
0630	04830	LOOP WIRE	2,634.00	LF
0635	04850	CABLE-NO. 14/1 PAIR	1,461.00	LF
0640	04895	LOOP SAW SLOT AND FILL	974.00	LF
0645	24955ED	REMOVE SIGNAL EQUIPMENT - (US 431 AT SALEM/GOETZ DRIVE)	1.00	EACH
0650	20266ES835	INSTALL LED SIGNAL- 4 SECTION	3.00	EACH
0655	23157EN	TRAFFIC SIGNAL POLE BASE	17.20	CUYD
0660	24900EC	PVC CONDUIT-1 1/4 IN-SCHEDULE 80	75.00	LF
0665	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	105.00	LF
0670	24617EC	INSTALL - WIRE	1,000.00	LF
0675	23836EC	RELOCATE LIGHT POLE	1.00	EACH
0680	04724	BRACKET 12 FT	4.00	EACH
0685	04845	CABLE-NO. 14/7C	129.00	LF
0690	04885	MESSENGER-10800 LB	462.00	LF
0695	04932	INSTALL STEEL STRAIN POLE	4.00	EACH
0700	06472	INSTALL SPAN MOUNTED SIGN	5.00	EACH
0705	20189NS835	INSTALL LED SIGNAL-5 SECTION	1.00	EACH
0710	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	30.00	EACH
0715	02569	DEMOBILIZATION	1.00	LS
0720	00356	ASPHALT MATERIAL FOR TACK	1.70	TON
0725	00001	DGA BASE	588.00	TON
0730	00100	ASPHALT SEAL AGGREGATE	11.00	TON
0735	00103	ASPHALT SEAL COAT	1.30	TON
0740	00216	CL3 ASPH BASE 1.00D PG76-22	895.00	TON
0745	00332	CL3 ASPH SURF 0.50A PG76-22	386.00	TON
0750	22861EN	HIGH STRENGTH GEOTEXTILE FABRIC TY V	1,342.00	SQYD
0755	24785EC	FIBER REINFORCEMENT FOR HMA	943.00	TON

MATERIAL SUMMARY

CONTRACT ID: 194200

121GR18T001-HSIP

020302831801

FREDERICA ST (KY 2831) IMPROVEMENTS AT THE INTERSECTION KY 2831 AND KY 54/KY 81 SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .14 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0195	06514	PAVE STRIPING-PERM PAINT-4 IN	2,449.00	LF
0200	06569	PAVE MARKING-THERMO CROSS-HATCH	143.00	SQFT
0205	06574	PAVE MARKING-THERMO CURV ARROW	6.00	EACH
0210	02650	MAINTAIN & CONTROL TRAFFIC - (KY 2831 AT KY 54/ KY 81)	1.00	LS
0215	02726	STAKING - (KY 2831 AT KY 54/KY 81)	1.00	LS
0220	06565	PAVE MARKING-THERMO X-WALK-6 IN	450.00	LF
0225	06568	PAVE MARKING-THERMO STOP BAR-24IN	106.00	LF
0230	24679ED	PAVE MARK THERMO CHEVRON	95.00	SQFT
0235	04844	CABLE-NO. 14/5C	3,859.00	LF
0240	20188NS835	INSTALL LED SIGNAL-3 SECTION	10.00	EACH
0245	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0250	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
0255	04700	POLE 30 FT MTG HT	1.00	EACH
0260	04721	BRACKET 6 FT	1.00	EACH
0265	04780	FUSED CONNECTOR KIT	7.00	EACH
0270	04792	CONDUIT-1 IN	20.00	LF
0275	04795	CONDUIT-2 IN	450.00	LF
0280	04811	ELECTRICAL JUNCTION BOX TYPE B	6.00	EACH
0285	04820	TRENCHING AND BACKFILLING	190.00	LF
0290	04821	OPEN CUT ROADWAY	176.00	LF
0295	04830	LOOP WIRE	1,928.00	LF
0300	04850	CABLE-NO. 14/1 PAIR	1,015.00	LF
0305	04881	MAST ARM POLE	2.00	EACH
0310	04895	LOOP SAW SLOT AND FILL	732.00	LF
0315	24955ED	REMOVE SIGNAL EQUIPMENT - (KY 2831 AT KY 54/KY 81)	1.00	EACH
0320	04960	REMOVE AND REPLACE SIDEWALK	24.00	SQYD
0325	20093NS835	INSTALL PEDESTRIAN HEAD-LED	8.00	EACH
0330	20266ES835	INSTALL LED SIGNAL- 4 SECTION	4.00	EACH
0335	20391NS835	ELECTRICAL JUNCTION BOX TYPE A	3.00	EACH
0340	23158ES505	DETECTABLE WARNINGS	10.00	SQFT
0345	21543EN	BORE AND JACK CONDUIT	176.00	LF
0350	21743NN	INSTALL PEDESTRIAN DETECTOR	8.00	EACH
0355	23157EN	TRAFFIC SIGNAL POLE BASE	6.60	CUYD
0360	24856ED	TRAFFIC SIGNAL POLE BASE ALTERNATE	2.00	EACH
0365	24900EC	PVC CONDUIT-1 1/4 IN-SCHEDULE 80	34.00	LF
0370	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	1,000.00	LF
0375	24617EC	INSTALL - WIRE	1,305.00	LF
0380	02569	DEMOBILIZATION	1.00	LS
0385	00330	CL3 ASPH SURF 0.50A PG64-22	363.00	TON
0390	00356	ASPHALT MATERIAL FOR TACK	.90	TON
0395	02676	MOBILIZATION FOR MILL & TEXT - (KY 2831 AT KY 54/ KY 81)	1.00	LS

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0400	02677	ASPHALT PAVE MILLING & TEXTURING	363.00	TON

CONTRACT ID: 194200

121GR18T001-HSIP

02051041A1801

NORTH GREEN STREET (US 41A) IMPROVEMENTS AT THE INTERSECTION OF US 41A AND RICHARDSON AVENUE GRADE & DRAIN, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0075	02650	MAINTAIN & CONTROL TRAFFIC - (US 41A @ RICHARDSON AVENUE)	1.00	LS
0080	02726	STAKING - (US 41A @ RICHARDSON AVENUE)	1.00	LS
0085	01919	STANDARD BARRIER MEDIAN TYPE 3	76.00	SQYD
0090	06406	SBM ALUM SHEET SIGNS .080 IN	38.60	SQFT
0095	06410	STEEL POST TYPE 1	104.00	LF
0100	06514	PAVE STRIPING-PERM PAINT-4 IN	1,199.00	LF
0105	06569	PAVE MARKING-THERMO CROSS-HATCH	306.00	SQFT
0110	06574	PAVE MARKING-THERMO CURV ARROW	5.00	EACH
0115	21373ND	REMOVE SIGN	5.00	EACH
0120	22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN	35.00	LF
0125	23839EC	REMOVE CONCRETE MEDIAN	14.00	SQYD
0130	24631EC	BARCODE SIGN INVENTORY	8.00	EACH
0135	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 194200

121GR18T001-HSIP

02051041A1802

NORTH GREEN STREET (US 41A) IMPROVEMENTS AT THE INTERSECTION OF US 41A AND WASHINGTON STREET SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0045	02650	MAINTAIN & CONTROL TRAFFIC - (US 41A @ WASHINGTON STREET)	1.00	LS
0050	02726	STAKING - (US 41A @ WASHINGTON STREET)	1.00	LS
0055	04844	CABLE-NO. 14/5C	255.00	LF
0060	20188NS835	INSTALL LED SIGNAL-3 SECTION	10.00	EACH
0065	24955ED	REMOVE SIGNAL EQUIPMENT - (US 41A @ WASHINGTON STREET)	1.00	EACH
0070	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 194200

121GR18T001-HSIP

02051041A1803

NORTH GREEN STREET (US 41A) IMPROVEMENTS AT THE INTERSECTION OF US 41A AND 5TH STREET
SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0165	02650	MAINTAIN & CONTROL TRAFFIC - (US 41A @ 5TH STREET)	1.00	LS
0170	02726	STAKING - (US 41A @ 5TH STREET)	1.00	LS
0175	04844	CABLE-NO. 14/5C	220.00	LF
0180	20188NS835	INSTALL LED SIGNAL-3 SECTION	10.00	EACH
0185	24955ED	REMOVE SIGNAL EQUIPMENT - (US 41A @ 5TH STREET)	1.00	EACH
0190	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 194200

121GR18T001-HSIP

0207504311801

US HIGHWAY 431 (US 431) IMPROVEMENTS NEAR THE INTERSECTION OF US 431 AND KY 85
THERMOPLASTIC PAVEMENT STRIPING, A DISTANCE OF .5 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0140	06569	PAVE MARKING-THERMO CROSS-HATCH	4,440.00	SQFT
0145	02650	MAINTAIN & CONTROL TRAFFIC - (US 431 & KY 85)	1.00	LS
0150	02726	STAKING - (US 431 & KY 85)	1.00	LS
0155	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	50.00	EACH
0160	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 194200

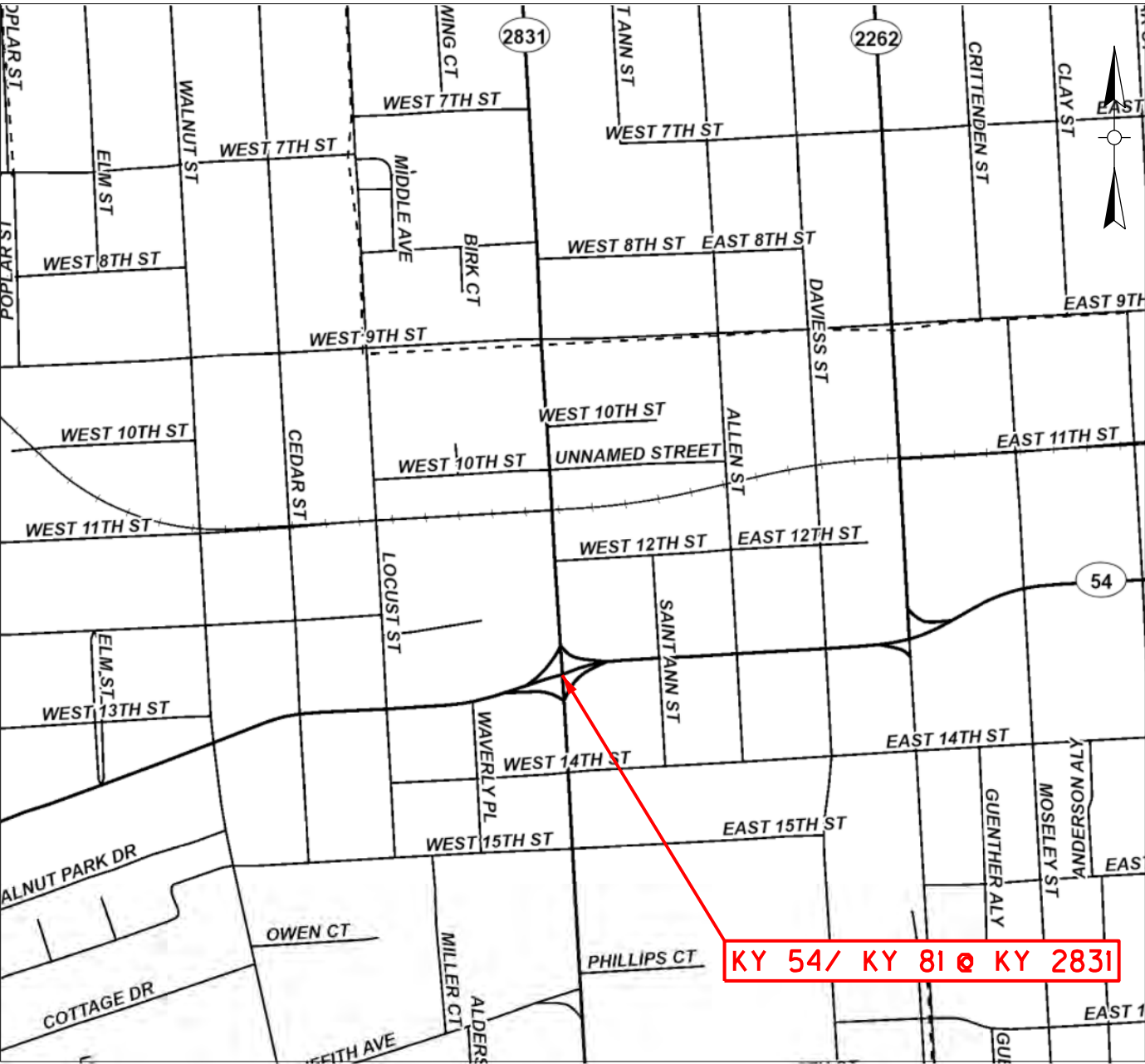
121GR18T001-HSIP

0211300601801

US HIGHWAY 60 (US 60) IMPROVEMENTS AT THE INTERSECTION OF US 60, US 60B, & KY 3393. SIGNS-
LIGHTING-SIGNALS, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02650	MAINTAIN & CONTROL TRAFFIC - (US 60 AT US 60 BYPASS/KY 3393)	1.00	LS
0010	02726	STAKING - (US 60 AT US 60 BYPASS/KY 3393)	1.00	LS
0015	04844	CABLE-NO. 14/5C	2,750.00	LF
0020	20188NS835	INSTALL LED SIGNAL-3 SECTION	12.00	EACH
0025	21659NN	RELOCATE SIGNAL HEAD	8.00	EACH
0030	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0035	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
0040	02569	DEMOBILIZATION	1.00	LS

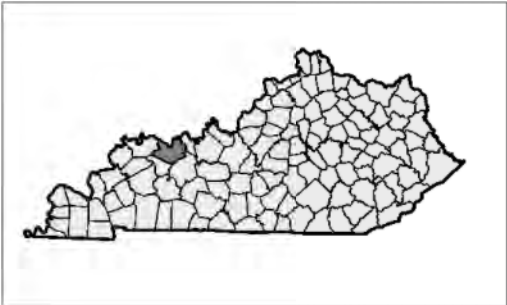
COUNTY OF	ITEM NO.
DAVIESS	2-9004.10



1" = 2000'

DAVIESS COUNTY
KY 54
MP 0.00

ITEM NO. HSIP 9010 (308)
PROJECT _____
NUMBER: _____



COUNTY OF	ITEM NO.
DAVIESS	2-9004.10

KY 54 / KY 81 @ KY 2831

GENERAL SUMMARY

PROJECT LINE NO.	BID ITEM CODE	BID ITEM DESCRIPTION	UNIT	QTY
1	2650	MAINTAIN & CONTROL TRAFFIC (KY 54 / KY 81 @ KY 2831)	LS	1
2	2676	MOBILIZATION FOR MILL & TEXT (KY 54 / KY 81 @ KY 2831)	LS	1
3	2726	STAKING (KY 54 / KY 81 @ KY 2831)	LS	1
4	330	CL3 ASPH SURF 0.50A PG64-22	TON	363
5	356	ASPHALT MATERIAL FOR TACK	TON	0.9
6	2677	ASPHALT PAVE MILLING & TEXTURING	TON	363
7	6514	PAVE STRIPING-PERM PAINT- 4 IN	LF	2449
8	6565	PAVE MARKING-THERMO X-WALK-6 IN	LF	450
9	6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	106
10	6569	PAVE MARKING-THERMO CROSS-HATCH	SF	143
11	6574	PAVE MARKING-THERMO CURV ARROW	EACH	6
12	24679ED	PAVE MARK THERMO CHEVRON	SF	95
14	2569	DEMOBILIZATION (KY 54 / KY 81 @ KY 2831)	LS	1

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

KY 54 / KY 81 @ KY 2831

COUNTY OF	ITEM NO.
DAVIESS	2-9004.10

STRIPING

BEGIN STA	BEGIN OFFSET	END STA	END OFFSET	LENGTH	TYPE	DESCRIPTION
98+30	31' LT	100+93	39' LT	268'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
98+42	11' LT	101+46	19' LT	304'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SKIP WHITE LINE
98+42	0'	99+74	4' LT	132'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID-DASHED YELLOW LINE
98+42	10' RT	99+74	10' RT	132'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID-DASHED YELLOW LINE
98+42	20' RT	99+74	20' RT	132'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SKIP WHITE LINE
99+74	3.33' LT	101+49	8' LT	175'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
99+74	20' RT	101+57	20' RT	183'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
100+24	10' RT	101+52	2' RT	128'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
100+24	10' RT	101+54	10' RT	130'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
102+25	19' LT	103+41	16' LT	116'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
102+27	9' LT	103+41	6' LT	114'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
102+29	1' LT	103+41	6' LT	112'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
102+31	9' RT	104+74	1' LT	243'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
102+33	20' RT	104+74	10' RT	241'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SKIP WHITE LINE
103+41	16' LT	104+74	12' LT	133'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SKIP WHITE LINE
103+41	6' LT	104+51	1' LT	110'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE DOTTED WHITE LINE

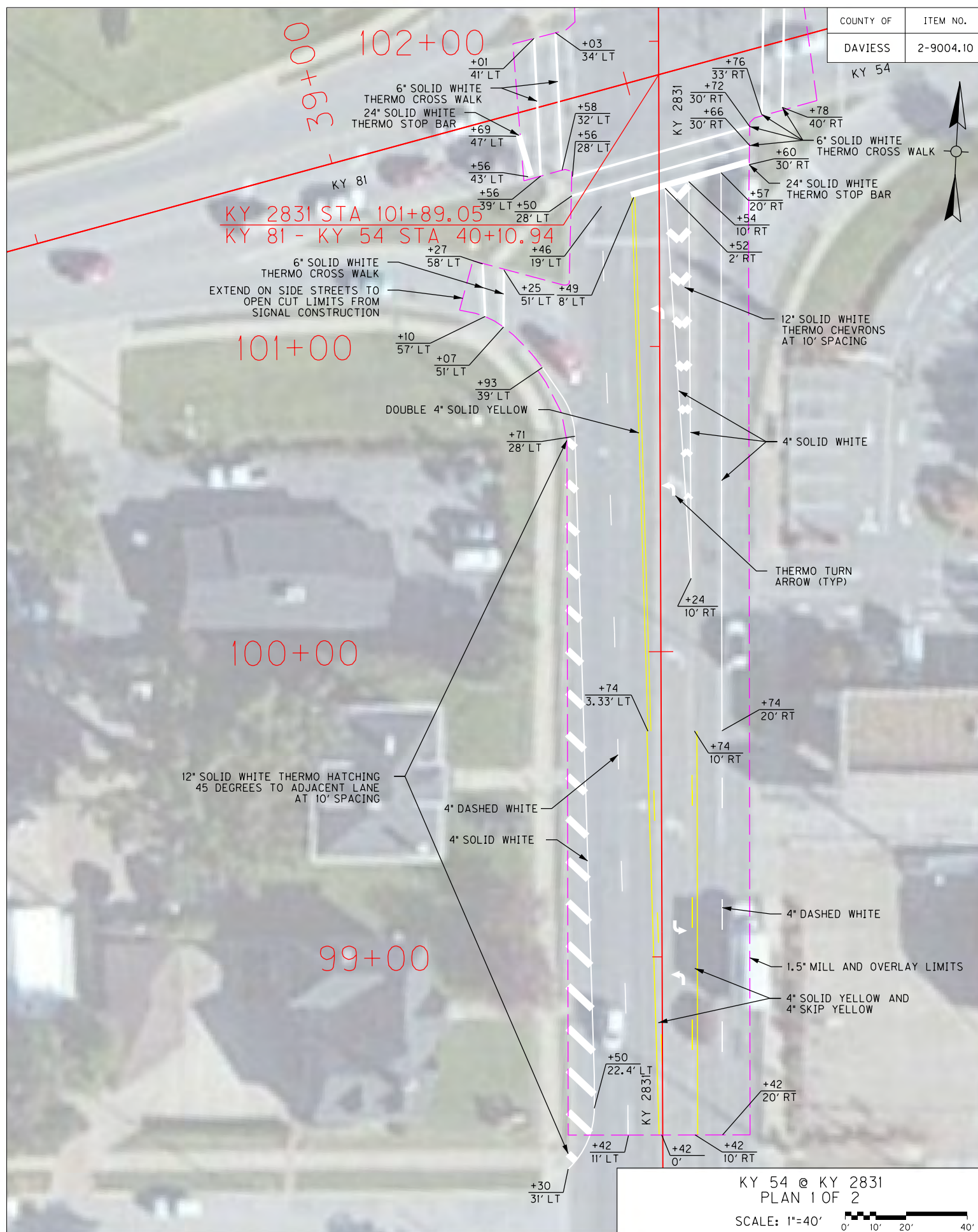
CROSS-HATCHING / CHEVRONS

BEGIN STA	END STA	SIDE	TYPE	DESCRIPTION	SF
98+30	100+93	LEFT	PAVE MARKING - THERMO CROSS-HATCH	WHITE 12" WIDTH AT 10' SPACING	143
100+24	101+54	RIGHT	PAVE MARK THERMO CHEVRON	WHITE 12" WIDTH AT 10' SPACING	53
102+27	103+41	LEFT	PAVE MARK THERMO CHEVRON	WHITE 12" WIDTH AT 10' SPACING	42

MARKING

STATION	OFFSET	STATION	OFFSET	DESCRIPTION	UNIT	QUANTITY
99+27	6' RT			PAVE MARKING-THERMO CURV ARROW	EACH	1
99+42	6' RT			PAVE MARKING-THERMO CURV ARROW	EACH	1
100+54	5' RT			PAVE MARKING-THERMO CURV ARROW	EACH	1
101+07	51' LT	101+25	51' LT	PAVE MARKING-THERMO X-WALK-6 IN	LF	19
101+10	57' LT	101+27	58' LT	PAVE MARKING-THERMO X-WALK-6 IN	LF	17
101+12	1' RT			PAVE MARKING-THERMO CURV ARROW	EACH	1
101+49	8' LT	101+60	30' RT	PAVE MARKING-THERMO STOP BAR-24 IN	LF	40
101+50	28' LT	101+66	30' RT	PAVE MARKING-THERMO X-WALK-6 IN	LF	60
101+56	28' LT	101+72	30' RT	PAVE MARKING-THERMO X-WALK-6 IN	LF	60
101+56	43' LT	101+69	47' LT	PAVE MARKING-THERMO STOP BAR-24 IN	LF	14
101+56	39' LT	102+01	41' LT	PAVE MARKING-THERMO X-WALK-6 IN	LF	45
101+58	32' LT	102+03	34' LT	PAVE MARKING-THERMO X-WALK-6 IN	LF	45
101+76	33' RT	102+20	34' RT	PAVE MARKING-THERMO X-WALK-6 IN	LF	44
101+78	40' RT	102+22	41' RT	PAVE MARKING-THERMO X-WALK-6 IN	LF	44
102+11	28' LT	102+23	30' RT	PAVE MARKING-THERMO X-WALK-6 IN	LF	58
102+11	50' RT	102+23	47' RT	PAVE MARKING-THERMO STOP BAR-24 IN	LF	14
102+17	28' LT	102+29	30' RT	PAVE MARKING-THERMO X-WALK-6 IN	LF	58
102+23	28' LT	102+31	9' RT	PAVE MARKING-THERMO STOP BAR-24 IN	LF	38
102+62	4' RT			PAVE MARKING-THERMO CURV ARROW	EACH	1
103+01	3' RT			PAVE MARKING-THERMO CURV ARROW	EACH	1

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





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

Item Number: 2-9004.10

County: DAVIESS

Description: KY 2831 FREDERICA ST @KY 54/ KY 61 PARRISH AVE

Cabinets	Master code	Description of Item
	1 T-01-0020	Base Mounted 332 Cabinet
	1 T-01-0105	ATC Controller
	1 T-01-0106	1C w/Maxtime (this should go with item ATC controller)
	1 T-01-0501	Conflict Monitor, Model 2018
	2 T-01-0510	Isolator, Model 242 (for ped detector and railroad)
	6 T-01-0600	Loop Detector, Model 222
	12 T-01-0700	Load Switches

Signals	Master code	Description of Item
	10 T-02-0009	Siemens 3 Section Signal
	10 T-02-0015	Siemen 3 Section backplate w/tape
	4 T-02-0016	Siemen 4 Section in-line backplate w/tape (poly only)
	4 T-02-0033	Siemen 4 section 12" signal (poly)
	8 T-02-0090	Pedestrian signal housing
	4 T-02-0300	LED Module 12" red arrow
	8 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
	8 T-02-0365	LED Countdown Pedestrian Module

Special items	Master code	Description of Item
	1 T-02-0504	Router (this includes power supply/antenna/cabling)
	10 T-02-0640	Mast arm mount signal bracket (3 section)
	4 T-02-0641	Mast arm mount signal bracket (4 section)
	5 T-02-0644	Mast arm sign hangers 36"
	8 T-06-0705	Ped Detector Flat Mount FSA Box
	8 T-06-0730	Ped Button w/o Plunger
	8 T-17-0015	9 X 15 Countdown Ped Sign DBL Sided

Electrical Contractor Name

Electrical Contractor Supervisor

Project Engineer

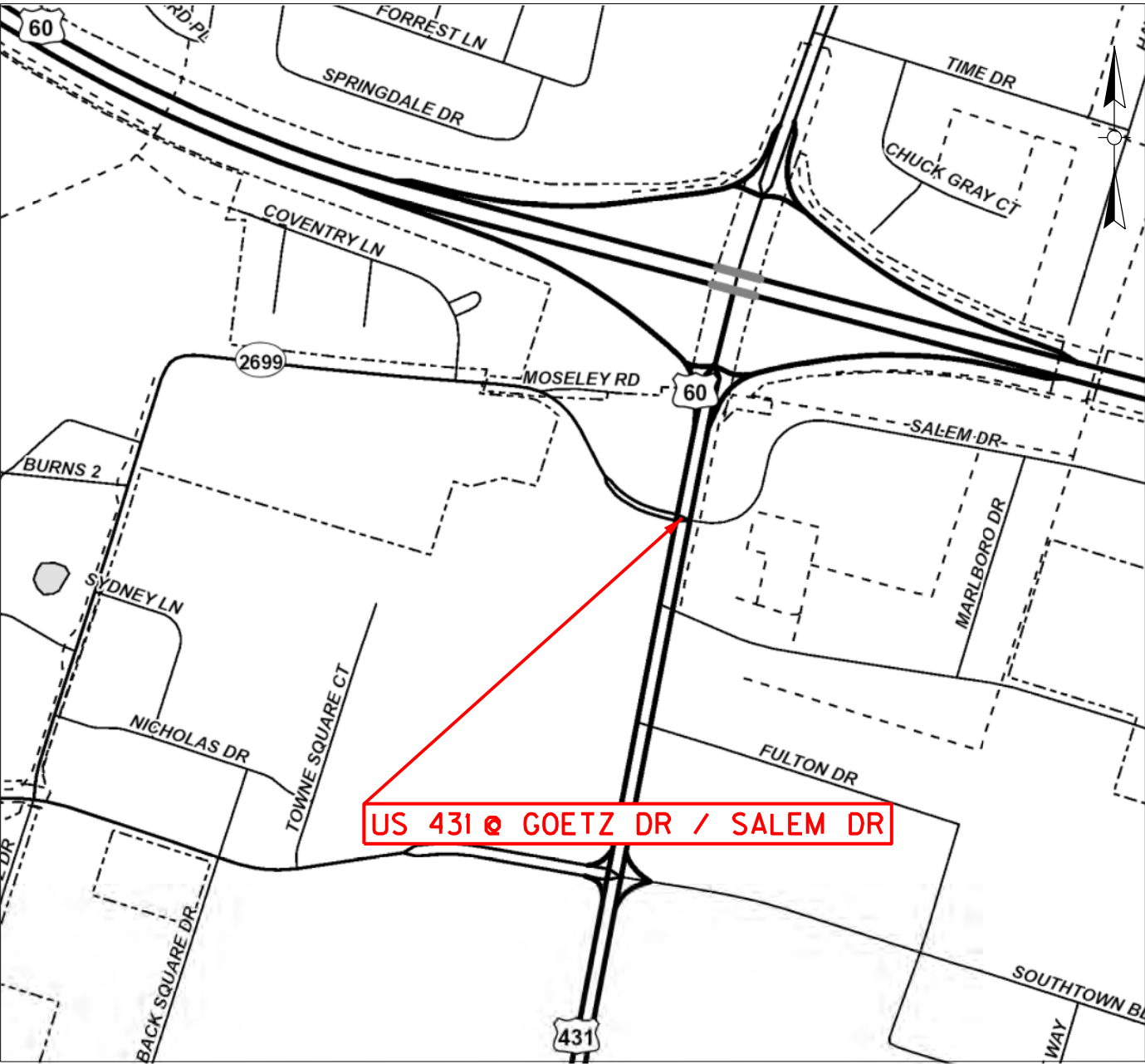
Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

Signature of Project Engineer or Designee

Contact number for Supervisor

Contact number for Project Engineer

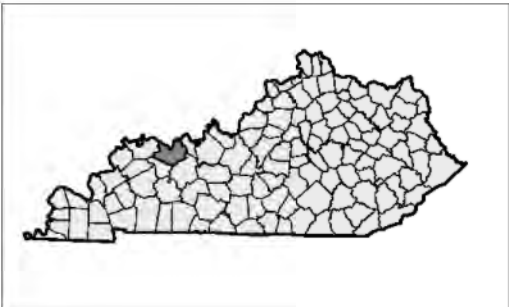
COUNTY OF	ITEM NO.
DAVIESS	2-9004.20



1" = 2000'

DAVIESS COUNTY
US 431
MP 11.239

ITEM NO. HSIP 4311 (041)
PROJECT _____
NUMBER: _____



US 431 @ GOETZ/SALEM DRIVE
GENERAL SUMMARY

COUNTY OF	ITEM NO.
DAVIESS	2-9004.20

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

BID ITEM CODE	BID ITEM DESCRIPTION	UNIT	QTY
2650	MAINTAIN & CONTROL TRAFFIC (US 431 @ GOETZ/SALEM DRIVE)	LS	1
2676	MOBILIZATION FOR MILL & TEXT (US 431 @ GOETZ/SALEM DRIVE)	LS	1
2726	STAKING (US 431 @ GOETZ/SALEM DRIVE)	LS	1
1	DGA BASE	TON	588
100	ASPHALT SEAL AGGREGATE	TON	11
103	ASPHALT SEAL COAT	TON	1.3
216	CL3 ASPH BASE 1.00D PG76-22	TON	895
332	CL3 ASPH SURF 0.50A PG76-22	TON	386
356	ASPHALT MATERIAL FOR TACK	TON	1.7
462	CULVERT PIPE - 18 IN	LF	26
1011	NON-PERFORATED PIPE-6 IN	LF	4
1025	PERF PIPE HEADWALL TY 2-6 IN	EACH	1
1310	REMOVE PIPE	LF	4
1811	STANDARD CURB AND GUTTER MOD	LF	585
1875	STANDARD HEADER CURB	LF	37
1890	ISLAND HEADER CURB TYPE 1	LF	10
1915	STANDARD BARRIER MEDIAN TYPE 1	SY	118
2099	CEM CONC ENT PAVEMENT-6 IN	SY	45
2200	ROADWAY EXCAVATION	CY	1105
2460	REMOVE TREES OR STUMPS	EACH	8
2483	CHANNEL LINING, CLASS II	TON	14
2625	REMOVE HEADWALL	EACH	2
2677	ASPHALT PAVE MILLING & TEXTURING	TON	247
2720	SIDEWALK-4 IN CONCRETE	SY	73
2721	REMOVE CONCRETE SIDEWALK	SY	130
6407	SBM ALUMINUM SHEET SIGNS .125 IN	SF	22.3
6410	STEEL POST TYPE 1	LF	200
6514	PAVE STRIPING-PERM PAINT- 4 IN	LF	5283
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	184
6569	PAVE MARKING-THERMO CROSS-HATCH	SF	66
6574	PAVE MARKING-THERMO CURV ARROW	EACH	19
6598	PAVEMENT MARKING REMOVAL	SF	120
20430ED	SAW CUT	LF	1768
20597EC	DITCH EXCAVATION	CY	180
21415ND	EROSION CONTROL (US 431 @ GOETZ/SALEM DRIVE)	LS	1
21596ND	GMSS TYPE D SURFACE MOUNT	EACH	4
21813NN	REMOVE AND RELOCATE SHEET SIGNS	EACH	18
22400NN	BARCODE SIGN INVENTORY	EACH	2
22664EN	WATER BLASTING EXISTING STRIPE	LF	54
22861EN	HIGH STRENGTH GEOTEXTILE FABRIC TY V	SY	1342
23836EC	RELOCATE LIGHT POLE	EACH	1
23839EC	REMOVE CONCRETE MEDIAN	SY	39
24575ES610	HEADWALL (SLOPED & MITERED CONCRETE - FOR 18 INCH PIPE)	EACH	2
24679ED	PAVE MARK THERMO CHEVRON	SF	292
24683ED	PAVE MARKING-THERMO-DOTTED LANE EXTENSION (6" WIDTH)	LF	28
24785EC	FIBER REINFORCEMENT FOR HMA	TON	943
22045NN	FLUME INLET TYPE 2 MOD	EACH	2
2569	DEMOBILIZATION (US 431 @ GOETZ/SALEM DRIVE)	LS	1

APPROXIMATELY 240 CY OF THE ROADWAY EXCAVATION IS PAVEMENT OR CURB

US 431 @ GOETZ/SALEM DRIVE

PAVING

COUNTY OF	ITEM NO.
DAVIESS	2-9004.20

NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.

①

ITEM	US 431			GOETZ DR			SALEM DR			TOTAL	
	IN	SY	TON	IN	SY	TON	IN	SY	TON	SY	TON
CL3 ASPH SURF 0.50A PG76-22	1.5	2020	167	1.5	1174	97	1.5	1476	122	4670	386
CL3 ASPH BASE 1.00D PG76-22	10.5	1342	776	6.5	15	6	6.5	315	113	1672	895
FIBER REINFORCEMENT FOR HMA			943			0			0		943
DGA BASE	6	1342	463	4	31	8	4	505	117	1878	588
HIGH STRENGTH GEOTEXTILE FABRIC TY V		1342			0			0		1342	
ASPHALT SEAL AGGREGATE		433	11		0	0		0	0	433	11
ASPHALT SEAL COAT		433	1.3		0	0		0	0	433	1.3
ASPHALT MATERIAL FOR TACK		4700	1		1189	0.3		1791	0.4	7680	1.7

CURB

BEGIN STATION	OFFSET	END STATION	OFFSET	QTY	DESCRIPTION
107+77	2.5' LT	107+78	3.5' RT	10	ISLAND HEADER CURB TYPE 1
49+18	27' LT	49+53	62' LT	55	STANDARD CURB AND GUTTER MOD
50+83	23.5' RT	53+74	14' RT	323	STANDARD CURB AND GUTTER MOD
50+83	23.5' LT	53+17	16' LT	207	STANDARD CURB AND GUTTER MOD
51+98	23' RT	51+99	30' RT	8	STANDARD HEADER CURB
52+23	29' RT	52+26	22' RT	8	STANDARD HEADER CURB
52+38	22' RT	52+39	26' RT	5	STANDARD HEADER CURB
52+60	25' RT	52+61	21' RT	4	STANDARD HEADER CURB
52+98	19' RT	53+00	24' RT	5	STANDARD HEADER CURB
53+22	24' RT	53+22	17' RT	7	STANDARD HEADER CURB

DRAINAGE

STATION	OFFSET	ITEM	UNIT	QTY
108+19	49' RT	NON-PERFORATED PIPE-6 IN	LF	4
108+19	51' RT	PERF PIPE HEADWALL TY 2-6 IN	EA	1
109+17	63' RT	REMOVE HEADWALL	EA	1
109+18	63' RT	REMOVE PIPE	LF	2
109+12	63' RT	CULVERT PIPE - 18 IN	LF	12
109+06	63' RT	HEADWALL (SLOPED & MITERED CONCRETE - FOR 18 INCH PIPE)	EA	1
109+06	68' RT	CHANNEL LINING, CLASS II	TON	6
109+21	68' RT	FLUME INLET TYPE 2 MOD	EA	1
109+81	62' RT	REMOVE HEADWALL	EA	1
109+80	62' RT	REMOVE PIPE	LF	2
109+86	62' RT	CULVERT PIPE - 18 IN	LF	14
109+93	62' RT	HEADWALL (SLOPED & MITERED CONCRETE - FOR 18 INCH PIPE)	EA	1
109+95	65' RT	CHANNEL LINING, CLASS II	TON	8
109+80	68' RT	FLUME INLET TYPE 2 MOD	EA	1

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

US 431 @ GOETZ/SALEM DRIVE
STRIPING

COUNTY OF	ITEM NO.
DAVIESS	2-9004.20

BEGIN STA	BEGIN OFFSET	END STA	END OFFSET	LENGTH	TYPE	DESCRIPTION
107+31	10' RT	108+11	10' RT	80'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE DOTTED WHITE LINE
107+73	34' RT	108+22	34' RT	49'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE DOTTED WHITE LINE
107+77	3' LT	107+78	4' RT	12'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID YELLOW LINE
107+77	3' LT	108+35	10' LT	58'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
107+78	4' RT	108+35	10' LT	58'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
108+35	10' LT	108+87	10' LT	52'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
108+11	10' RT	108+36	3.5' RT	27'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
108+36	3.5' RT	108+87	3.5' RT	51'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
108+11	10' RT	108+97	10' RT	87'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
107+73	22' RT	108+97	22' RT	124'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
108+22	34' RT	108+97	34' RT	75'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
107+73	34' RT	109+25	65' RT	161'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
109+49	56' LT	110+10	22' RT	113'	PAVE MARKING-THERMO-DOTTED LANE EXTENSION (6" WIDTH)	SINGLE DOTTED WHITE LINE
109+73	68' RT	110+08	33' RT	55'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
109+77	82' LT	110+13	45' LT	57'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
110+10	10' LT	114+52	11' LT	442'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
110+20	4' LT	114+23	5.5' LT	403'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
110+20	9.5' RT	114+26	8' RT	406'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
114+23	5.5' LT	114+52	11' LT	30'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
112+43	22' LT	115+16	22.5 LT	274'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
114+26	8' RT	115+22	11.5' LT	99'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID YELLOW LINE
114+26	8' RT	115+34	8.5' RT	109'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID YELLOW LINE
114+52	11' LT	115+22	11.5' LT	70'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE DOTTED WHITE LINE
47+65	13' RT	49+42	13' RT	183'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
47+85	2' RT	48+11	2' RT	26'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE DOTTED WHITE LINE
48+11	2' RT	49+42	2' RT	131'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
47+65	9' LT	47+85	2' RT	38'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
47+85	2' RT	48+11	9' LT	28'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
47+65	9' LT	49+42	9' LT	174'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
50+59	11' RT	53+63	0.5' LT	317'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
52+66	7.5' RT	53+17	1.5' LT	52'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
53+17	1.5' LT	53+63	0.5' LT	47'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
53+63	0.5' LT	53+74	1' LT	10'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
50+59	0'	52+65	3.5' LT	207'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
50+59	11' LT	52+65	14.5' LT	195'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
52+65	3.5' LT	53+17	1.5' LT	50'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE DOTTED WHITE LINE
52+65	14.5' LT	53+16	14' LT	47'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE DOTTED WHITE LINE

CROSS-HATCHING / CHEVRONS

BEGIN STA	END STA	SIDE	TYPE	DESCRIPTION	SF
108+10	108+87	RIGHT	PAVE MARK THERMO CHEVRONS	WHITE 12" WIDTH AT 10' SPACING	37
110+20	114+52	LEFT	PAVE MARK THERMO CHEVRONS	WHITE 12" WIDTH AT 10' SPACING	255
47+60	48+11	LEFT	PAVE MARKING - THERMO CROSS-HATCH	YELLOW 12" WIDTH AT 10' SPACING	42
52+66	53+63	RIGHT	PAVE MARKING - THERMO CROSS-HATCH	YELLOW 12" WIDTH AT 10' SPACING	24

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

US 431 @ GOETZ/SALEM DRIVE

MARKING

COUNTY OF	ITEM NO.
DAVIESS	2-9004.20

STATION	OFFSET	DESCRIPTION	UNIT	QUANTITY
108+26	0'	PAVE MARKING-THERMO CURV ARROW	EACH	1
108+26	40' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
108+66	3' LT	PAVE MARKING-THERMO CURV ARROW	EACH	1
108+66	40' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
108+88	0'	PAVE MARKING-THERMO STOP BAR-24 IN	LF	20
108+98	28' RT	PAVE MARKING-THERMO STOP BAR-24 IN	LF	36
110+09	28' LT	PAVE MARKING-THERMO STOP BAR-24 IN	LF	35
110+19	0'	PAVE MARKING-THERMO STOP BAR-24 IN	LF	20
110+56	3' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
111+76	3' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
112+96	3' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
114+16	3' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
47+89	7.5' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
47+89	19.5' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
49+06	3.5' LT	PAVE MARKING-THERMO CURV ARROW	EACH	1
49+06	7.5' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
49+06	19.5' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
49+43	10' RT	PAVE MARKING-THERMO STOP BAR-24 IN	LF	38
50+58	6' LT	PAVE MARKING-THERMO STOP BAR-24 IN	LF	35
50+95	5.5' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
50+95	16.5' LT	PAVE MARKING-THERMO CURV ARROW	EACH	1
51+73	5' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
51+73	17' LT	PAVE MARKING-THERMO CURV ARROW	EACH	1
52+62	2' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
52+62	20' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1

REMOVE STRIPING

BEGIN STA	END STA	SIDE	DESCRIPTION	UNIT	QTY
109+92	110+10	11' LT	WATER BLASTING EXISTING STRIPE	LF	18
109+92	110+10	23' LT	WATER BLASTING EXISTING STRIPE	LF	18
109+92	110+10	34' LT	WATER BLASTING EXISTING STRIPE	LF	18

REMOVE MARKING

STATION	OFFSET	DESCRIPTION	UNIT	QTY
110+72	7' LT	PAVEMENT MARKING REMOVAL - THERMOPLASTIC ARROWS	SF	16
111+96	7' LT	PAVEMENT MARKING REMOVAL - THERMOPLASTIC ARROWS	SF	16
109+90	22' LT	PAVEMENT MARKING REMOVAL - THERMO STOP BAR-24 IN	SF	88

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

US 431 @ GOETZ/SALEM DRIVE

COUNTY OF	ITEM NO.
DAVIESS	2-9004.20

REMOVE AND RELOCATE SHEET SIGN

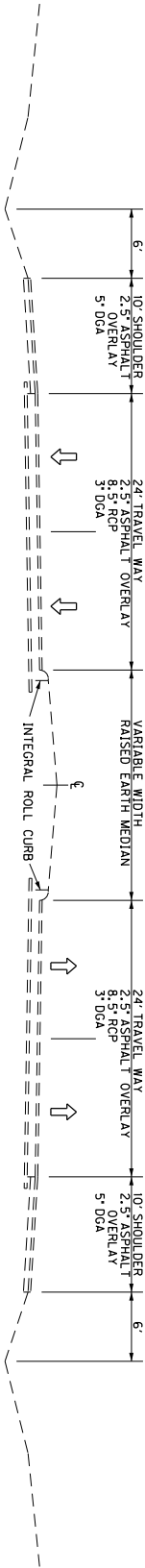
STATION	OFFSET	DESCRIPTION	QTY	NOTE
108+13	54' RT	REMOVE, STORE, RELOCATE	2	
108+49	51' RT	REMOVE, STORE, RELOCATE	1	REINSTALL ON RELOCATED LIGHT POST
110+22	50' RT	REMOVE, STORE, RELOCATE	4	
111+83	56' RT	REMOVE, STORE, RELOCATE	5	
112+67	57' RT	REMOVE, STORE, RELOCATE	1	
115+22	1.5' LT	REMOVE, STORE, RELOCATE	2	NEW SURFACE MOUNT TYPE 1 POSTS
51+45	27' RT	REMOVE, STORE, RELOCATE	3	NEW TYPE 1 POST

SEE SHEETING SIGN DETAILS FOR NEW SIGN INSTALLATION INFORMATION

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

TYPICAL SECTIONS

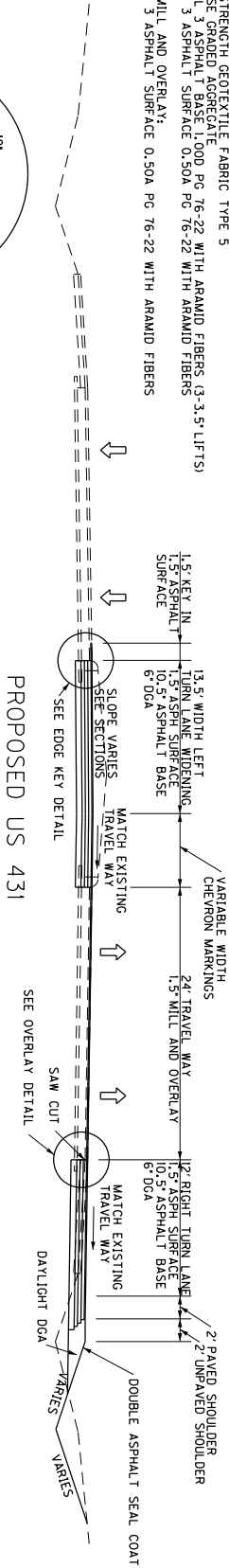
COUNTY OF	ITEM NO.
DAVISS	2-9004



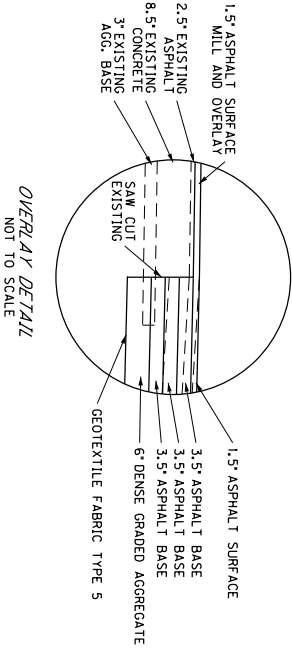
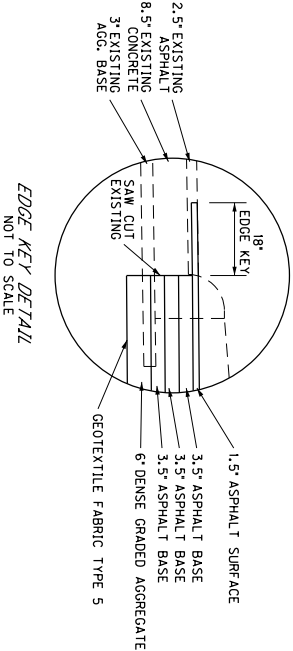
EXISTING US 431

US 431 PAVEMENT SECTION
EXISTING PAVEMENT SECTION ESTIMATED TO BE:
3" AGGREGATE BASE
8.5" CONCRETE
2.5" ASPHALT

PROPOSED TURN LANE WIDENING AND MEDIAN REPLACEMENT:
HIGH STRENGTH GEOTEXTILE FABRIC TYPE 5
6" DENSE GRADED AGGREGATE
10.5" CL 3 ASPHALT BASE 1,000 PG 76-22 WITH ARAMID FIBERS (3-3.5' LIFTS)
1.5" CL 3 ASPHALT SURFACE 0.50A PG 76-22 WITH ARAMID FIBERS
PROPOSED MILL AND OVERLAY:
1.5" CL 3 ASPHALT SURFACE 0.50A PG 76-22 WITH ARAMID FIBERS



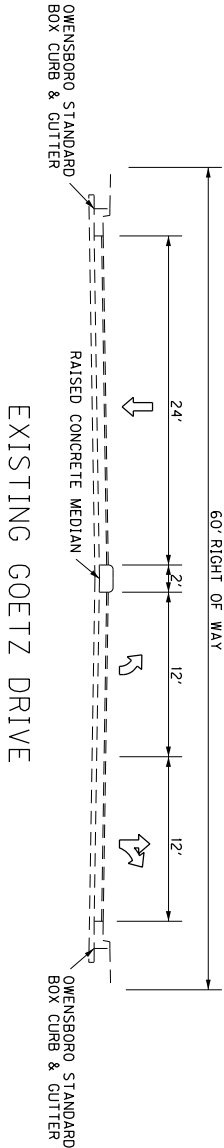
PROPOSED US 431



TYPICAL SECTIONS

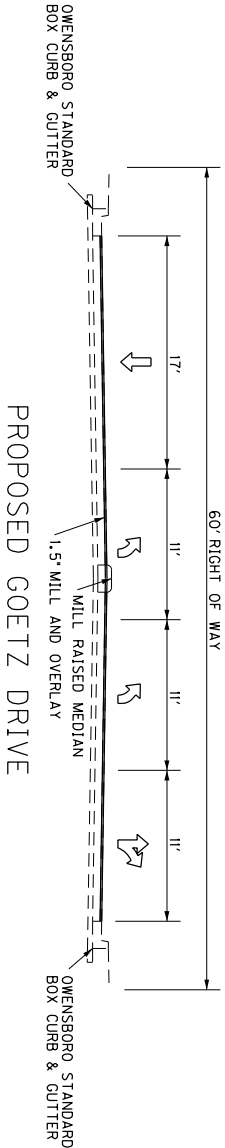
COUNTY OF	ITEM NO.
DAVIESS	2-9004

TYPICAL SECTIONS



EXISTING GOETZ DRIVE

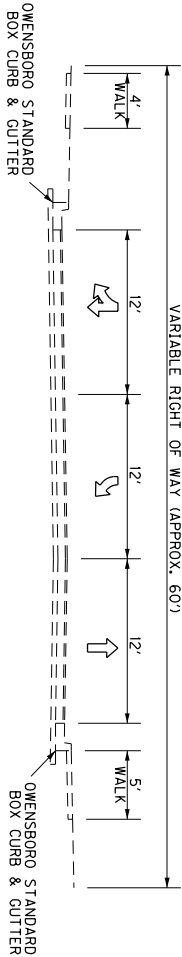
GOETZ DRIVE
PROPOSED MILL AND OVERLAY:
1.5" CL 3 ASPHALT SURFACE 0.50A PG 76-22



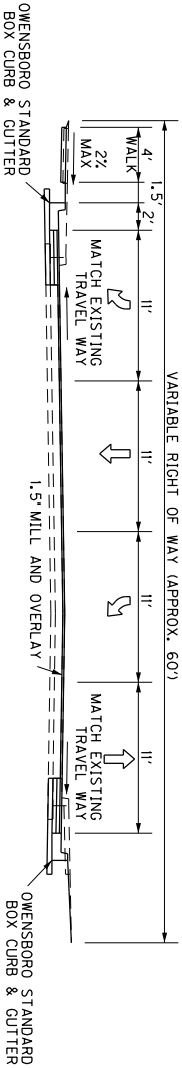
PROPOSED GOETZ DRIVE

TYPICAL SECTIONS

COUNTY OF	ITEM NO.
DAVIESS	2-9004



EXISTING SALEM DRIVE



PROPOSED SALEM DRIVE

MILL AND OVERLAY EXISTING PAVEMENT
MATCH EXISTING CROSS SLOPE FOR WIDENING
ADJUST AS NEEDED TO ENSURE POSITIVE DRAINAGE

SALEM DRIVE PAVEMENT SECTION
EXISTING PAVEMENT SECTION ESTIMATED TO BE:

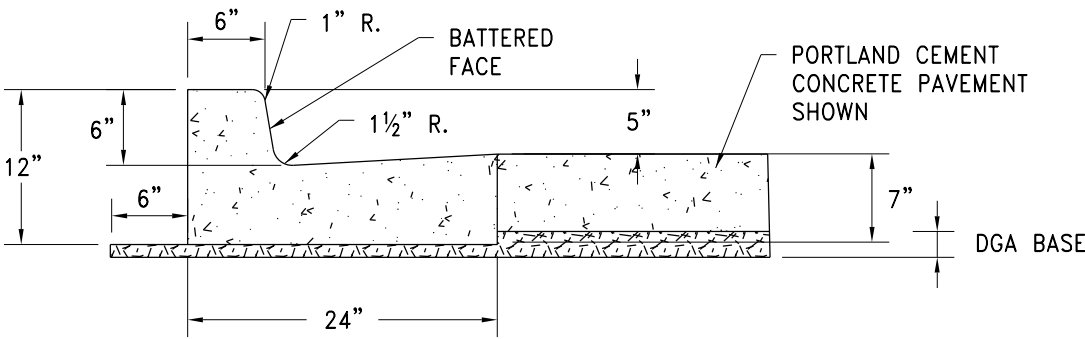
4" DGA
6.5" ASPHALT BASE
1.5" ASPHALT SURFACE
PROPOSED WIDENING SALEM DRIVE:
MATCH EXISTING THICKNESS WITH ASPHALT
BASE, QUANTITIES BASED ON:

4" DGA
6.5" CL 3 ASPHALT BASE 1,000 PG 76-22 (3.5'+3' LIFTS)
1.5" CL 3 ASPHALT SURFACE 0.50A PG 76-22
PROPOSED MILL AND OVERLAY:
1.5" CL 3 ASPHALT SURFACE 0.50A PG 76-22

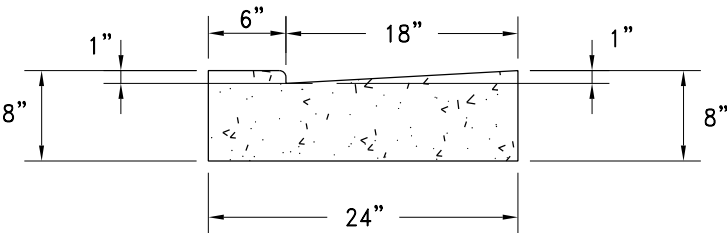
COUNTY OF	ITEM NO.
DAVIESS	2-9004

TYPICAL DETAILS

OWENSBORO STANDARD BOX CUB AND GUTTER

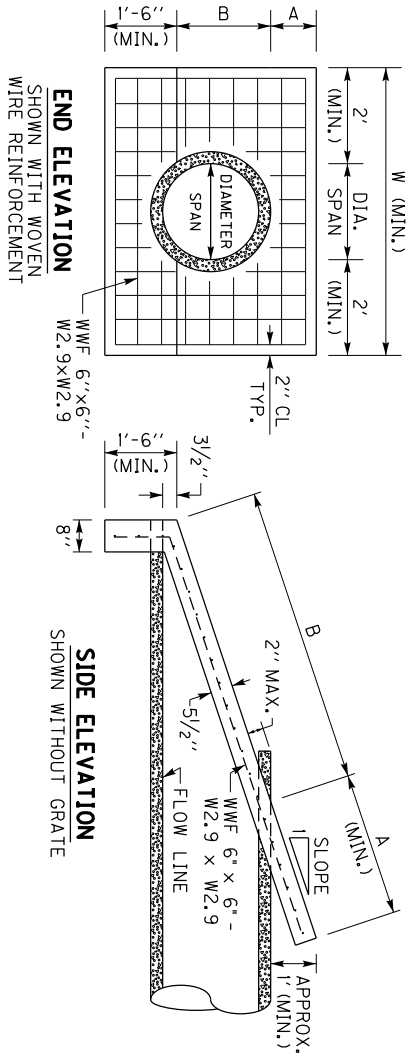


TYPICAL



AT DRIVEWAY

NOTE: OWENSBORO STANDARD BOX CURB AND GUTTER SHALL BE PAID FOR AS BID ITEM 1811 STANDARD CURB AND GUTTER MOD



ISOMETRIC VIEW
SHOWN WITH WOVEN
WIRE REINFORCEMENT
AND WEDGE ANCHORS

DIMENSIONS AND CONCRETE QUANTITIES									
PIPE SIZE	3:1 SLOPE			4:1 SLOPE			6:1 SLOPE		
	A	B	W	A	B	W	A	B	W
15"	3'-7 1/2"	5'-3"	0.74	4'-8 3/4"	5'-3"	0.93	6'-11 3/4"	5'-3"	1.29
18"	3'-4'-5 3/4"	5'-6"	0.85	4'-5'-10"	5'-6"	1.05	6'-8'-7 1/4"	5'-6"	1.48
24"	3'-6'-2 1/2"	6'-0"	1.05	4'-8'-1"	6'-0"	1.32	6'-11'-11"	6'-0"	1.87
30"	3'-7'-10 3/4"	6'-6"	1.43	4'-10'-3 3/4"	6'-6"	1.80	6'-15'-2 1/2"	6'-6"	2.28

NOTE: CONCRETE QUANTITIES ARE LISTED FOR INFORMATIONAL PURPOSES ONLY.

~ NOTES ~

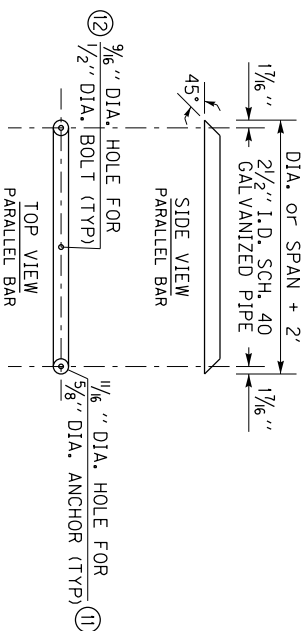
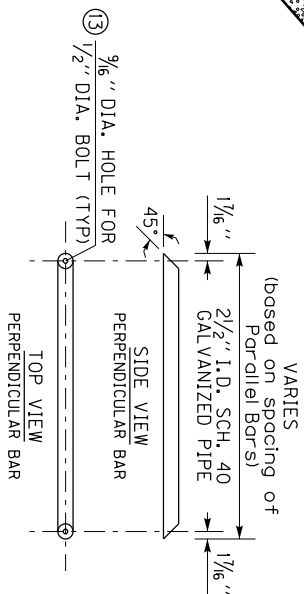
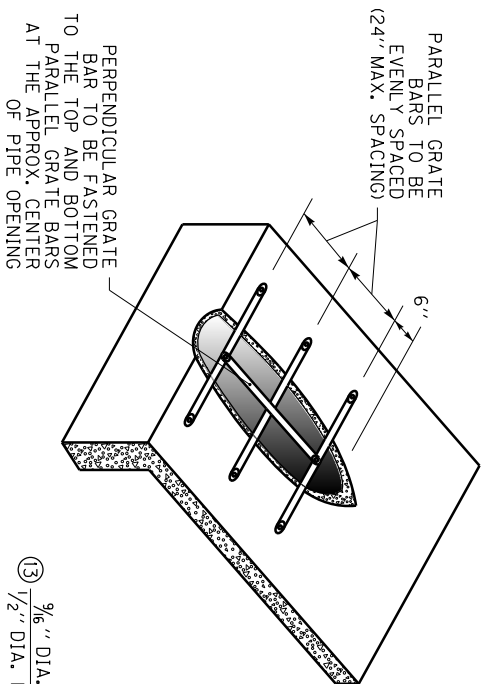
- BID ITEM AND UNIT TO BID: 24575ES610 HEADWALL (SLOPED & MITERED CONCRETE-FOR 1/2 INCH PIPE) - EACH
- THE EMBANKMENT FILL MATERIAL IS TO BE PLACED, COMPACTED, AND GRADED AROUND THE PIPE BEFORE THE CONCRETE SLOPE PAVING IS PLACED. THE INTENT IS FOR THE SLOPED & MITERED HEADWALL TO MATCH THE FINAL EMBANKMENT SLOPE.
- THE PIPE SHALL BE MITERED AFTER THE CONCRETE SLOPE PAVING HAS BEEN PLACED AND SUFFICIENTLY CURED. THE PIPE SHOULD BE MITERED AS CLOSE TO FLUSH WITH THE SLOPE PAVING AS POSSIBLE, AND NO HIGHER THAN 2" ABOVE THE SLOPE PAVING. HAND FINISHING AND/OR CUTTING MAY BE NECESSARY.
- THE DIMENSION 'A' IS BASED ON THE FINAL GRADED SLOPE. THE DIMENSION 'B' IS BASED ON CIRCULAR REINFORCED CONCRETE PIPE AT 0° SKEW FOR THE LISTED SLOPE. THE DIMENSION 'W' IS BASED ON THE DIAMETER, OR SPAN, OF THE PIPE. NOTE: THE HEADWALL DIMENSIONS AND CONCRETE QUANTITIES MAY VARY BASED ON THE FINAL GRADED SLOPE, PIPE SKEW, AND/OR TYPE OF PIPE.
- WOVEN WIRE REINFORCEMENT (WWF 6"x6" - W2.9xW2.9) IS REQUIRED FOR THE SLOPE PAVING AND TOE WALL. UTILIZE 2" CLEARANCE FROM ALL EDGES.
- CONCRETE QUANTITIES SHOWN ARE FOR ONE (1) HEADWALL.
- AFTER THE PIPE HAS BEEN MITERED, ANCHOR THE PIPE TO THE CONCRETE SLOPE PAVING BY CORE DRILLING AND INSTALLING 1/2" DIAMETER x 7" LENGTH STEEL WEDGE ANCHORS (3" MINIMUM EMBEDMENT) ON 18" CENTERS ALONG THE SIDES OF THE PIPE. HOLE SIZE & DEPTH, TORQUE, & INSTALLATION PROCEDURES PER RECOMMENDATION OF ANCHOR MANUFACTURE. NOTE: STEEL WEDGE ANCHORS ARE NOT REQUIRED FOR REINFORCED CONCRETE PIPE.
- THE FOLLOWING SITUATIONS REQUIRE A HEADWALL WITH A GRATE: -24" DIAMETER PIPE ON GREATER THAN 30° SKEW -30" DIAMETER PIPE ON GREATER THAN 15° SKEW -PIPE WITH GREATER THAN 30" DIAMETER. -ELLIPTICAL PIPE GREATER THAN 24" EQUIVALENT DIAMETER SEE SHEET 2 FOR GRATE DETAILS
- ALL BOLTS AND HARDWARE SHALL BE RUST RESISTANT: ZINC PLATED, STAINLESS STEEL, OR STEEL THAT HAS BEEN GALVANIZED IN ACCORDANCE WITH AASHTO M 232.

SEE SHEET 2 FOR
DIMENSIONS OF
HEADWALLS FOR PIPE
OVER 30" DIAMETER

COUNTY OF	TOWN NO.	SHEET NO.
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KENTUCKY
DEPARTMENT OF HIGHWAYS
SLOPED & MITERED CONCRETE HEADWALL (SHEET 1 OF 2)

NOT TO SCALE



PIPE FOR GRATE DETAILS

SEE NOTE 6 TO DETERMINE
IF GRATE IS REQUIRED

KENTUCKY
DEPARTMENT OF HIGHWAYS

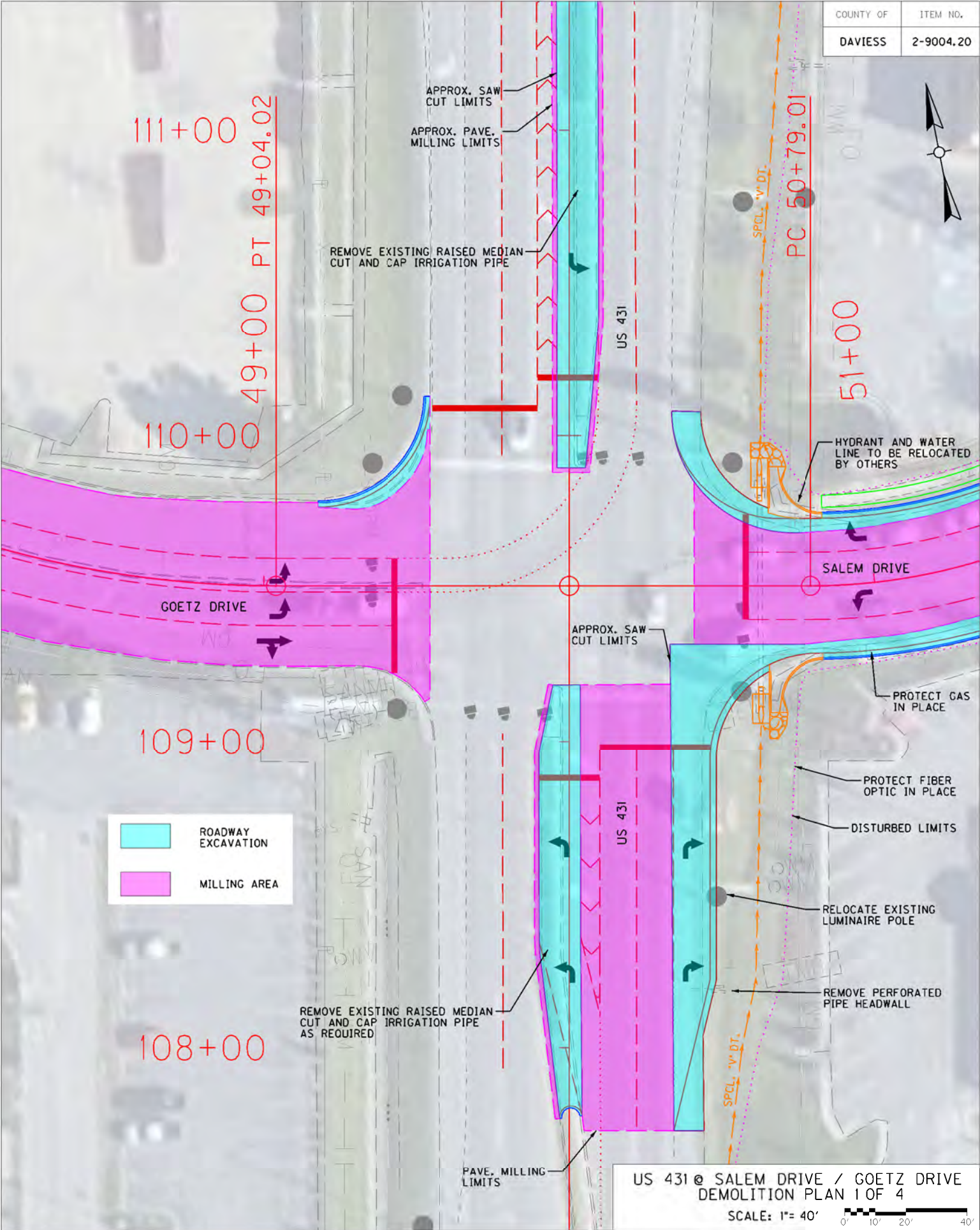
SLOPED & MITERED
CONCRETE HEADWALL
(SHEET 2 OF 2)

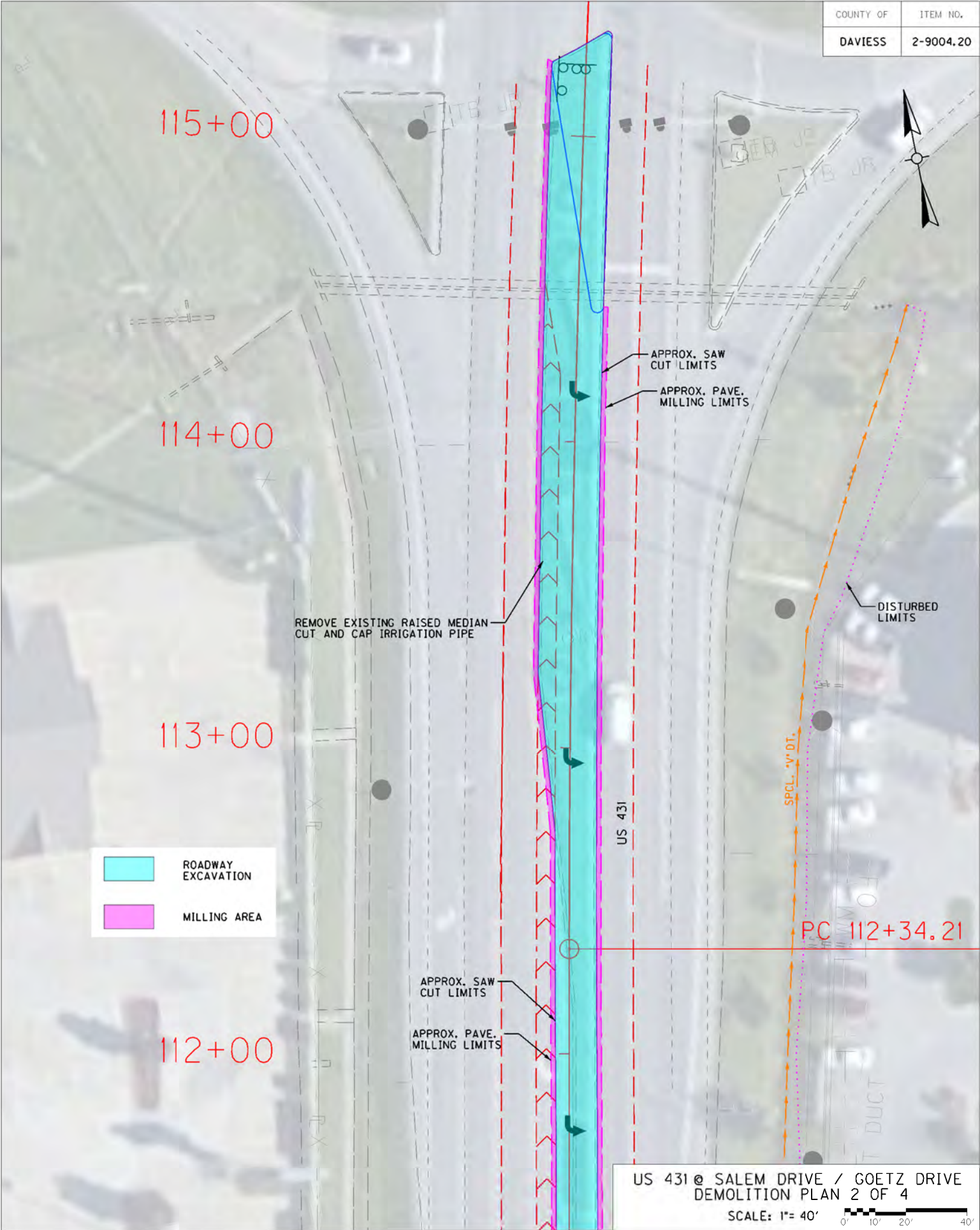
NOTE: CONCRETE QUANTITIES ARE LISTED FOR INFORMATIONAL PURPOSES ONLY.

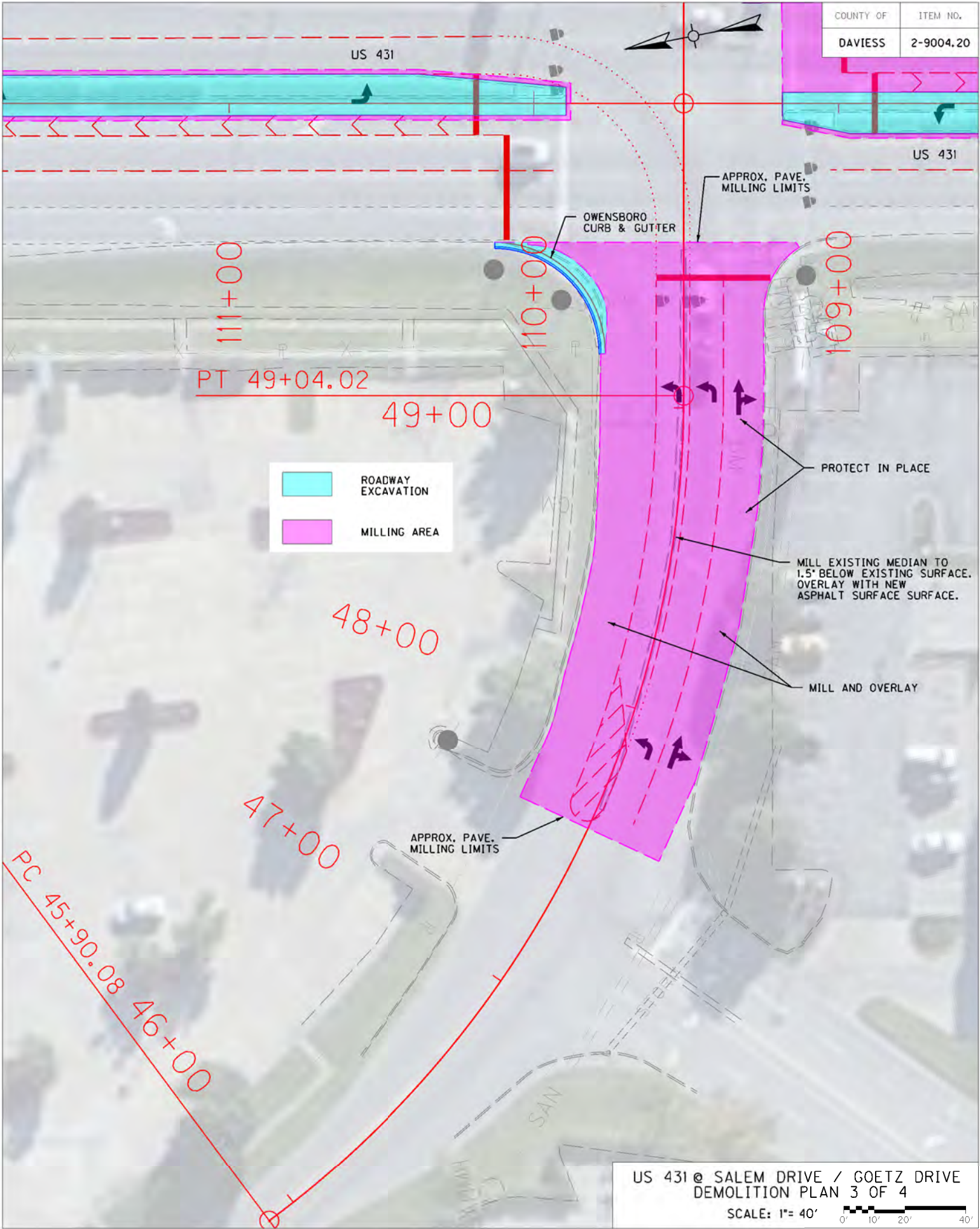
SEE SHEET 1 FOR
DIMENSIONS OF
HEADWALLS FOR PIPE
30" DIAMETER & LESS

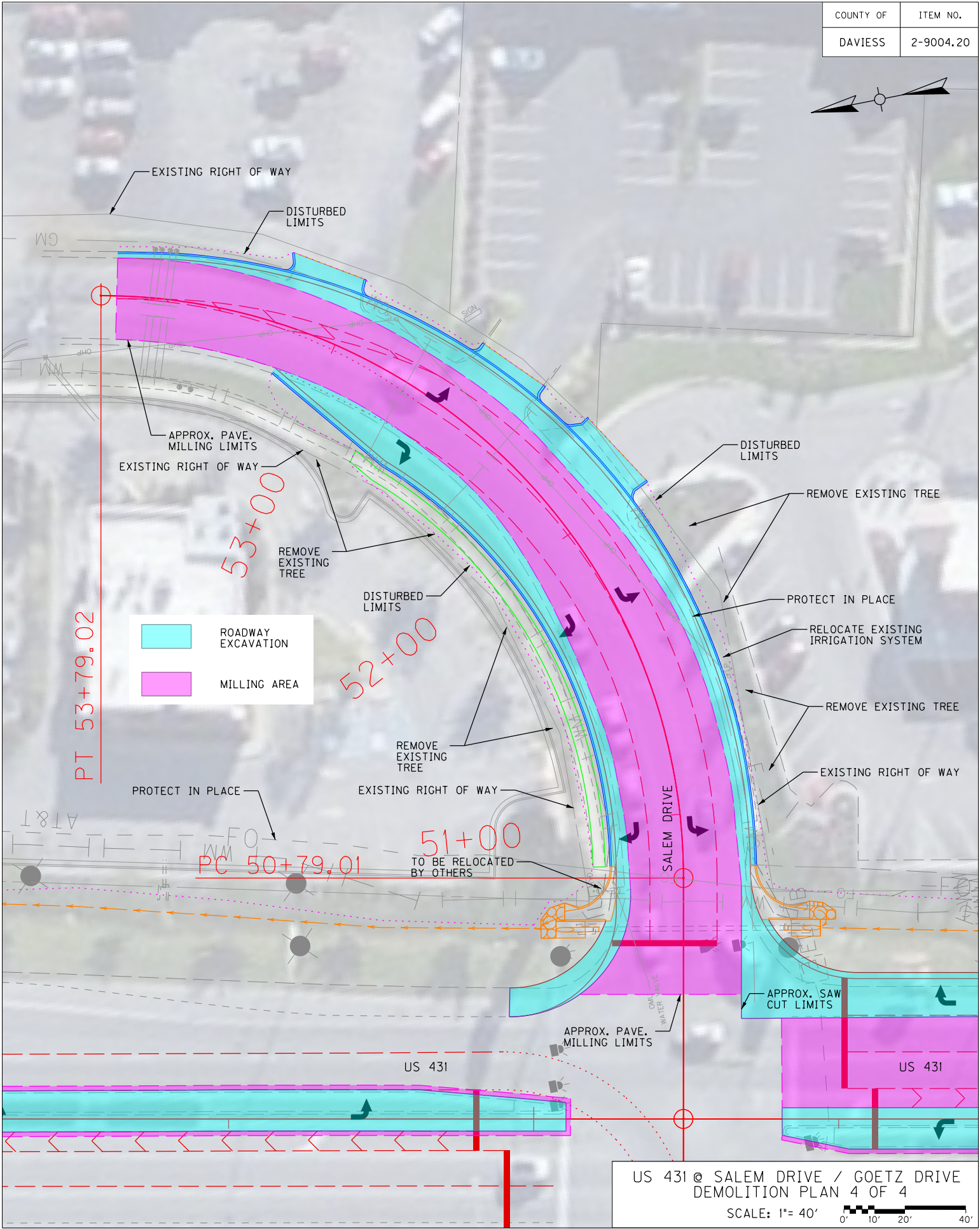
- ~ NOTES ~
- BID ITEM AND UNIT TO BID: 24575ES610
HEADWALL (SLOPED & MITERED CONCRETE-FOR — INCH PIPE) - EACH
SEE SHEET 1 FOR NOTES 1 THRU 5
7. THE FOLLOWING SITUATIONS REQUIRE A HEADWALL WITH A GRATE:
-24" DIAMETER PIPE ON GREATER THAN 30° SKEW
-30" DIAMETER PIPE ON GREATER THAN 15° SKEW
-PIPE WITH GREATER THAN 30" DIAMETER,
-ELLIPTICAL PIPE GREATER THAN 24"-EQUIVALENT DIAMETER
8. ALL BOLTS AND HARDWARE SHALL BE RUST RESISTANT:
ZINC PLATED, STAINLESS STEEL, OR STEEL THAT HAS BEEN
GALVANIZED IN ACCORDANCE WITH AASHTO M 232.
9. THE PIPE USED TO CONSTRUCT THE GRATE SHALL BE STEEL,
SCHEDULE 40, CONFORMING TO ASTM A53, AND GALVANIZED IN
ACCORDANCE WITH AASHTO M 111 AFTER FABRICATION.
10. ANY RAW METAL EXPOSED BY FIELD CUTTING AND/OR DRILLING
SHALL BE TREATED WITH A COLD GALVANIZING COMPOUND.
11. FASTEN PARALLEL BARS TO HEADWALL WITH $\frac{3}{8}$ " DIA. x $\frac{41}{2}$ "
LENGTH STEEL WEDGE ANCHORS, MINIMUM EMBEDMENT = $2\frac{3}{4}$ "
HOLE SIZE AND DEPTH, TORQUE, & INSTALLATION PROCEDURES
PER RECOMMENDATION OF ANCHOR MANUFACTURE
12. CENTER BOLT HOLE SHALL ONLY BE DRILLED IN THE TOP AND
BOTTOM PARALLEL BARS.
13. FASTEN THE PERPENDICULAR BAR TO THE TOP AND BOTTOM
PARALLEL BARS WITH $\frac{1}{2}$ " DIA. x 4" LENGTH HEX HEAD BOLTS,
HEX HEAD NUTS, & FLAT WASHERS.
14. THE BOTTOM PARALLEL BAR IS TO BE PLACED SO THAT IT IS
APPROX. 6" ABOVE THE FLOWLINE OF THE PIPE.

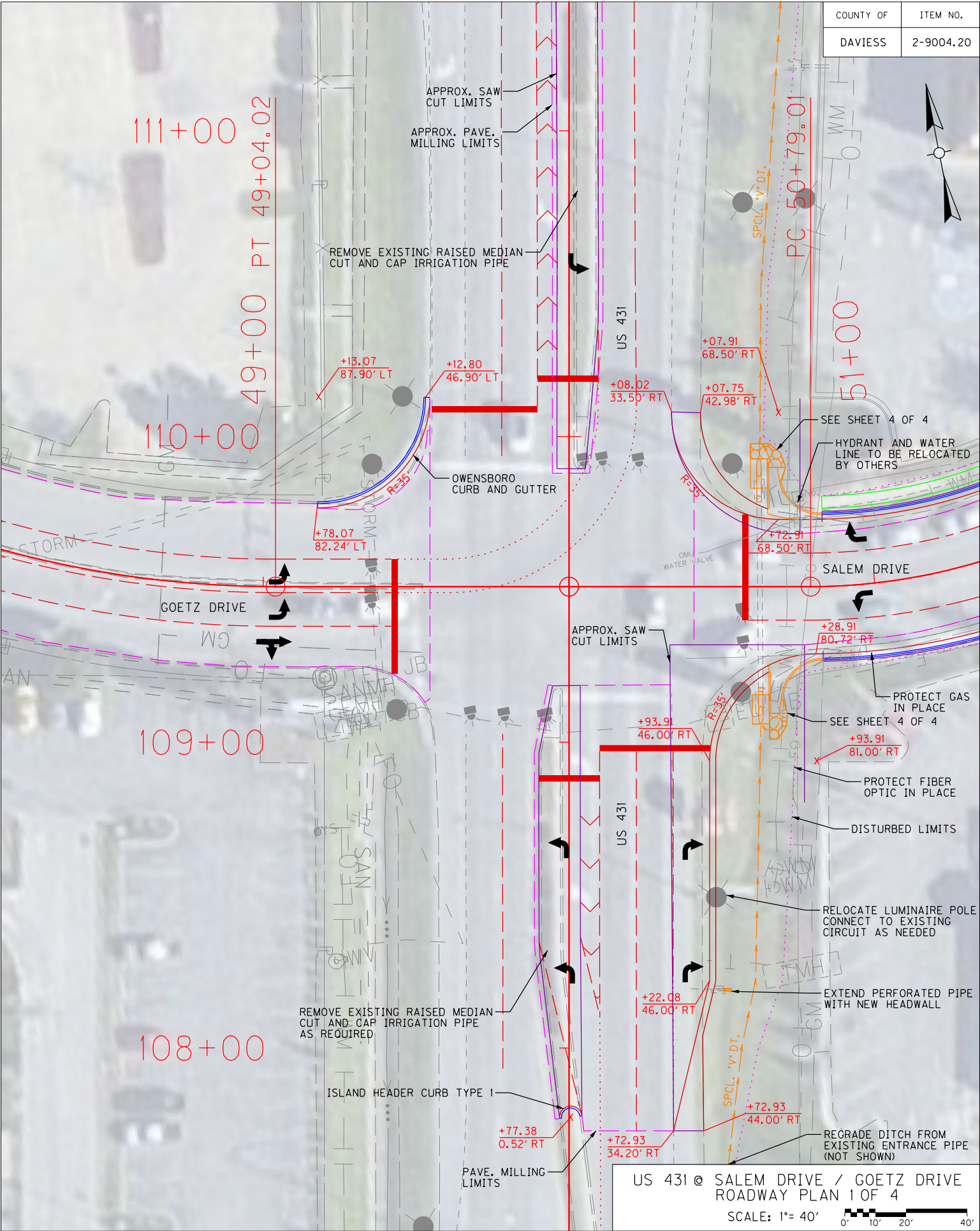
NOT TO SCALE

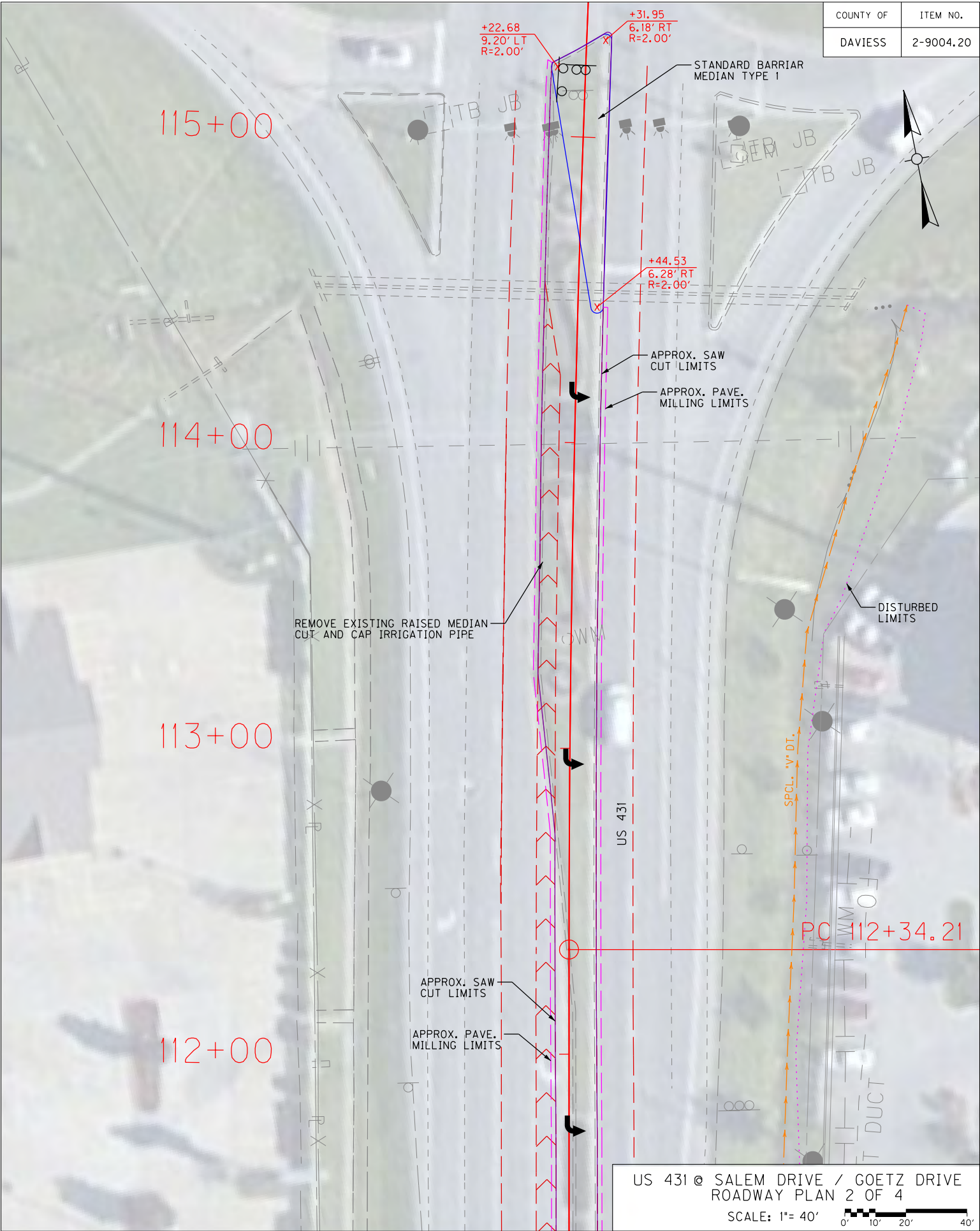


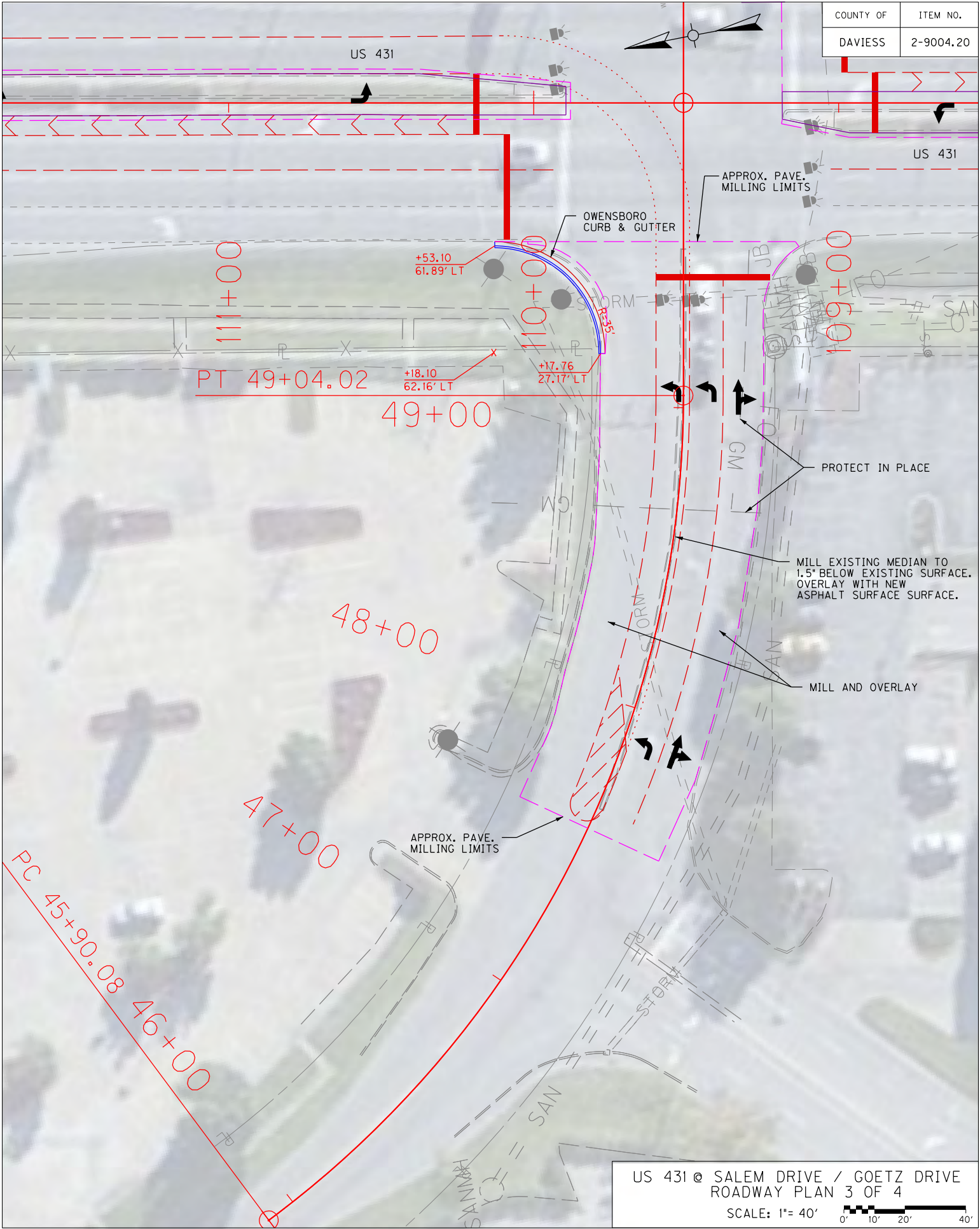


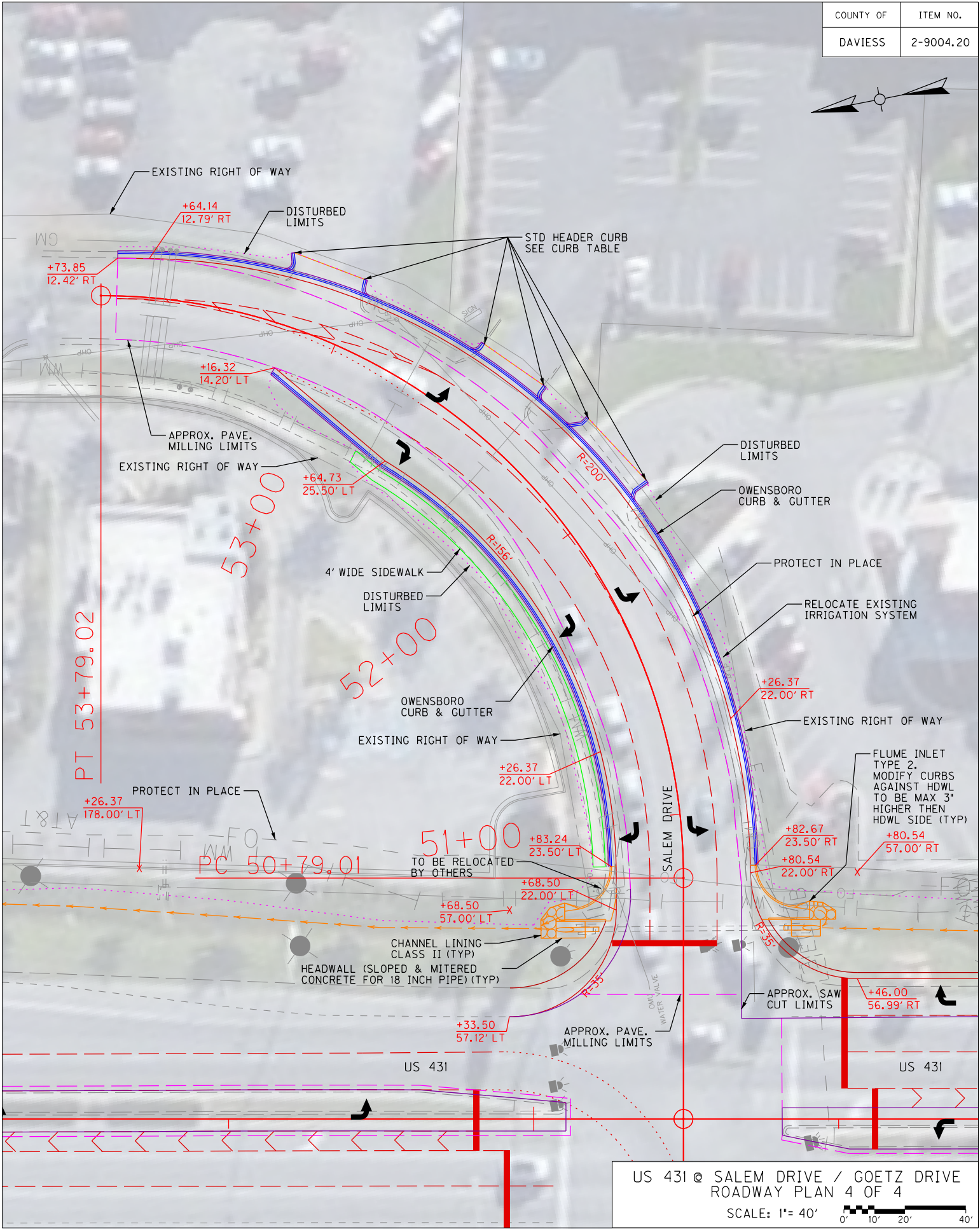








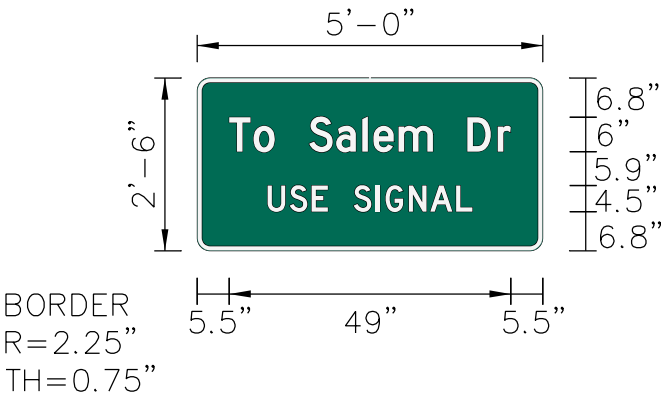




SHEETING SIGNS DETAIL SHEET

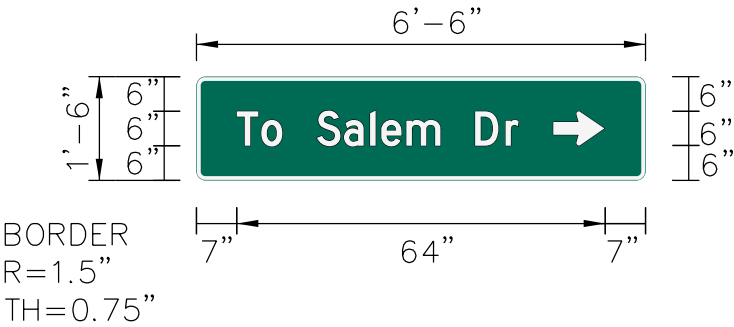
COUNTY OF	ITEM NO.
DAVIESS	2-9004.20

SIGN/SIGN ASSEMBLY NUMBER	SIZES			MUTCD CODE	SIGN LOCATION				POSTS		
	IN INCHES		SQUARE FEET		SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	AT APPROXIMATE STATION, OFFSET	NO.	LF	MOUNTING
	HORIZ.	VERT.									
S-1	60	30	12.5	D3-2	MED	EB	US 431	115+84 260' LT	2	13	SOIL



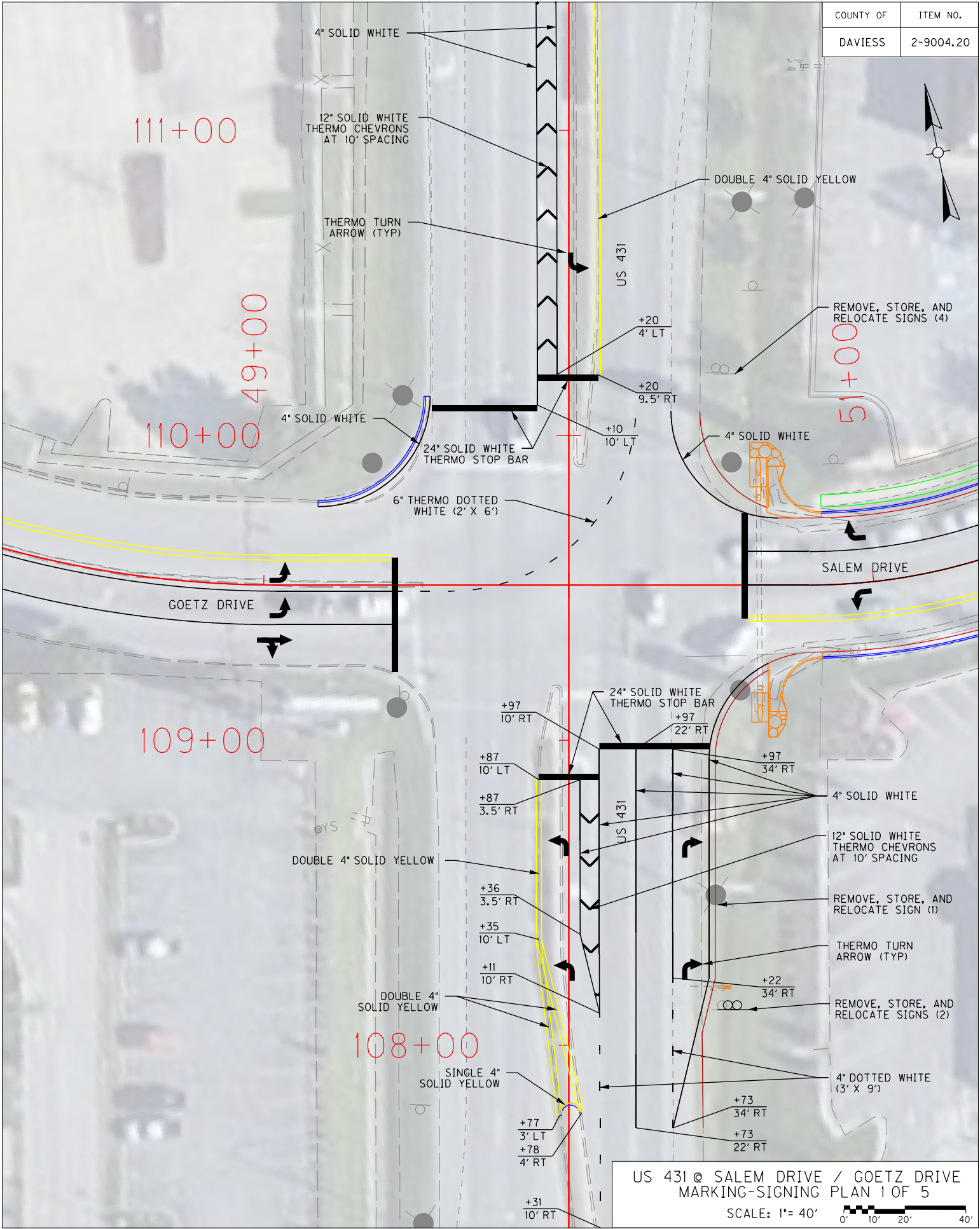
SIGN /
SIGN MESSAGE ①

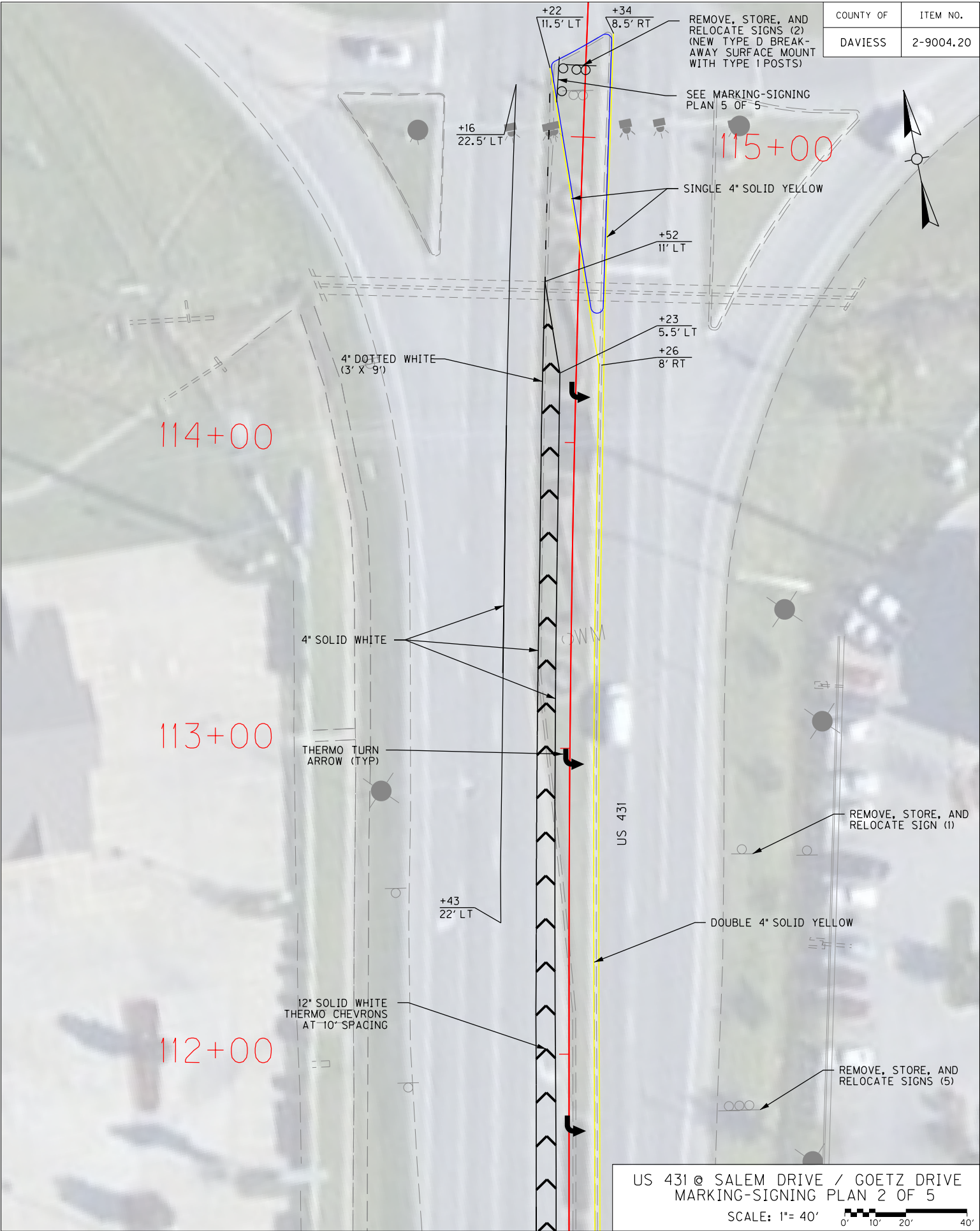
S-2	78	18	9.8	D1-1	RT	EB	US 60 WB OFF RAMP	US 431 115+18 7' LT	2	7	TYPE D BREAKAWAY SURFACE
-----	----	----	-----	------	----	----	----------------------------	---------------------------	---	---	--------------------------------



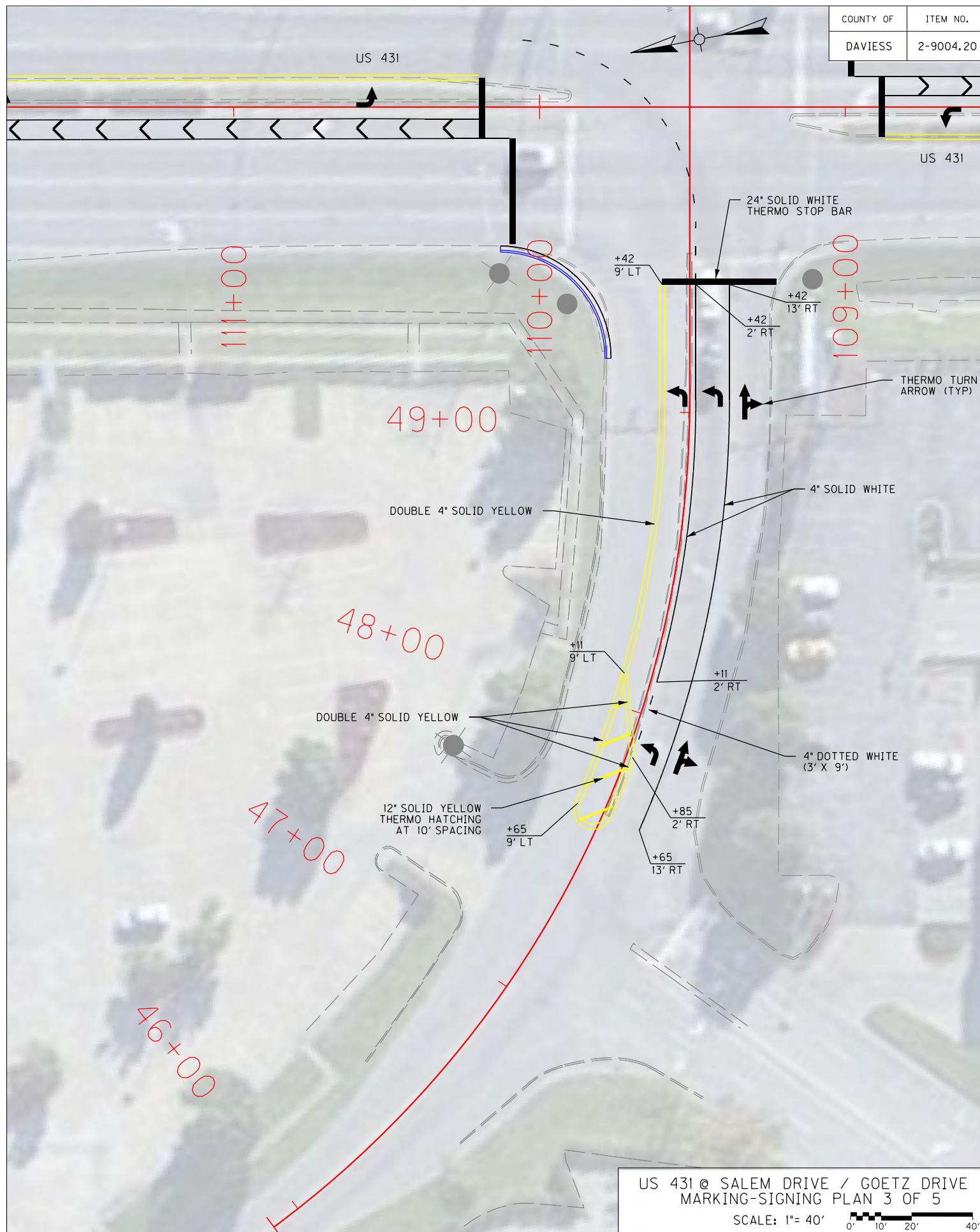
SIGN /
SIGN MESSAGE ①

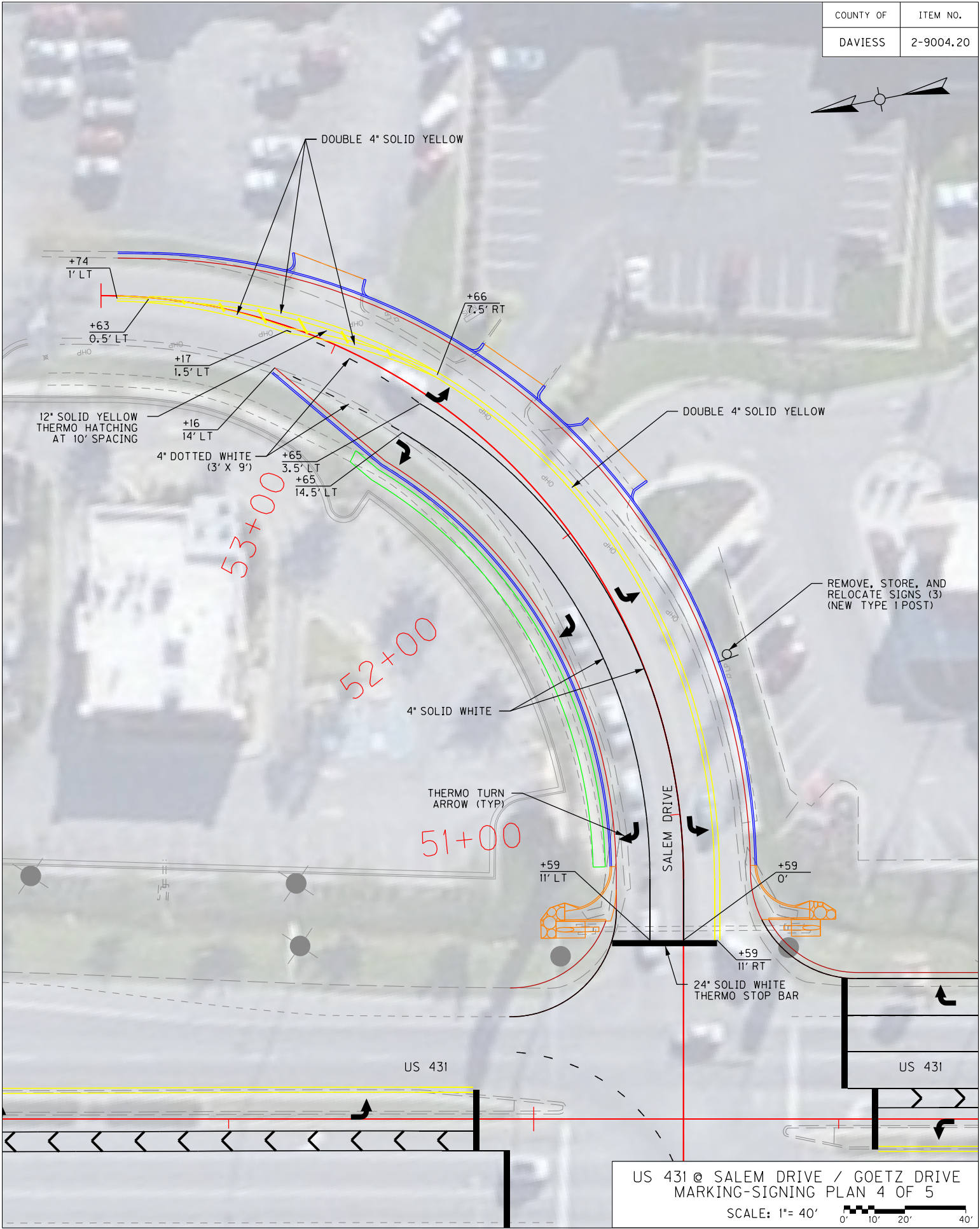
- SPECIAL 1. THE COLORS SHALL BE AS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS".
- NOTES:
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36" (THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE MATERIAL SHALL BE USED.
 3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABILIZER OR SURFACE MOUNTED. SEE THE SHEETING SIGN DETAIL SHEETS AND THE SPECIAL NOTE FOR SIGNING.
 4. POSTS SHALL BE 2" X 2", 12 GAUGE
 5. SIGNS REQUIRE BRACING AS SHOWN ON SHEETING SIGN DETAIL SHEET 2 OF 2

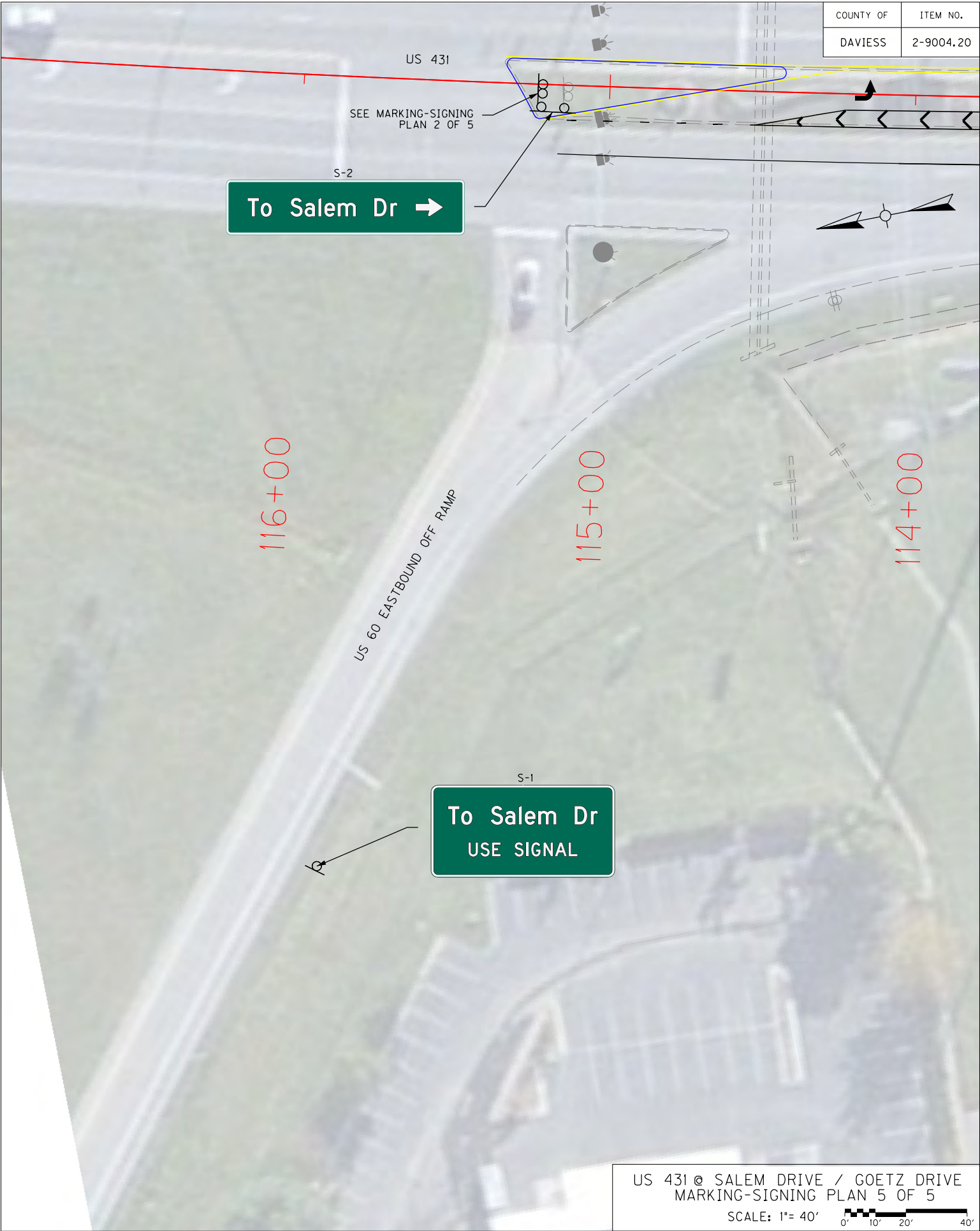




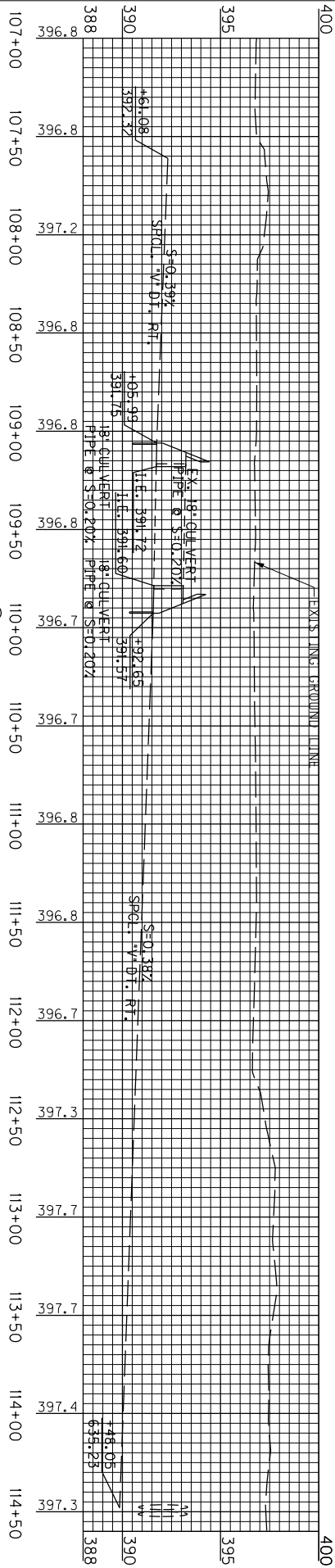
COUNTY OF	ITEM NO.
DAVIESS	2-9004.20







COUNTY OF	ITEM NO.
DAVIESS	2-9004.20



STA. 109+05.99 RT.
18° SLOPED AND MITERED
CONCRETE HEADWALL

STA. 109+92.65 RT.
18° SLOPED AND MITERED
CONCRETE HEADWALL

US 431
PROFILE SHEET
SCALE: 1" = 80'



COUNTY OF	ITEM NO.
DAVISS	2-9004

PIPE DRAINAGE SHEET 1 of 1

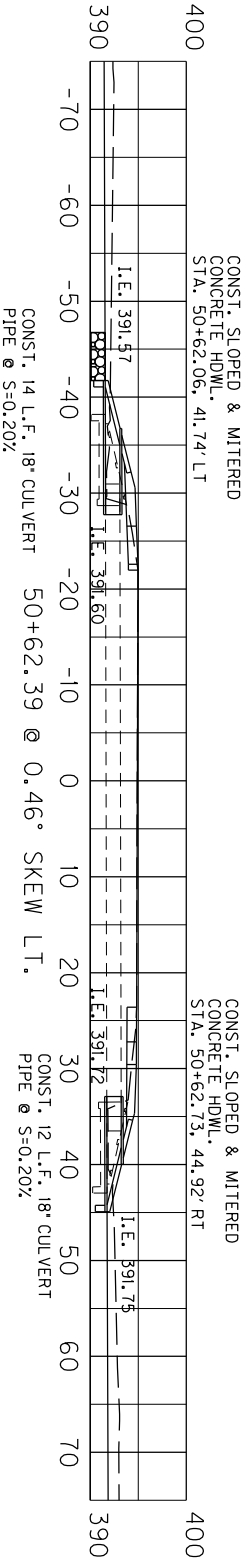
CULVERT PIPE										SLOPED & MITERED CONC. HDWL.	DESIGN PH LEVEL	MAXIMUM COVER HEIGHT
18"												
L	I	N	E	A	R	F	E	E	T	EACH		

26

2

M

1.7



SALEM RD PIPE SECTION

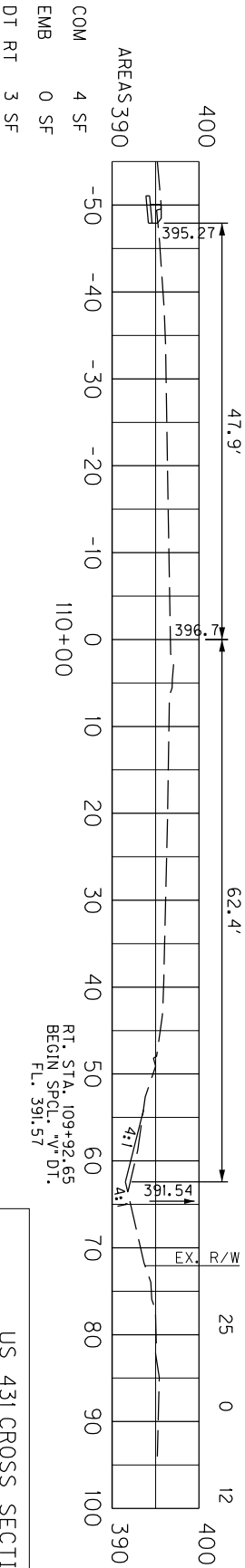
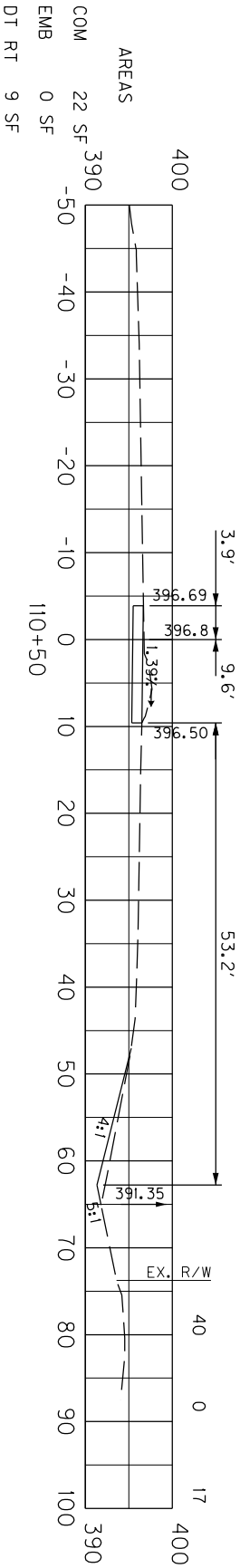
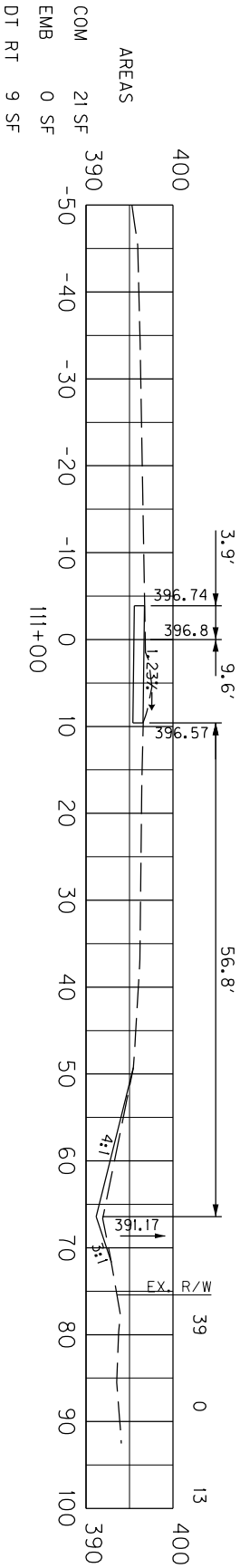
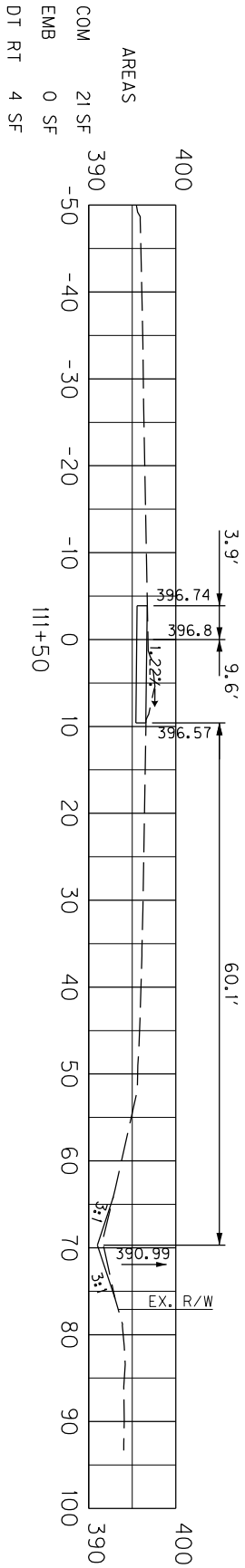
SCALE: 1"= 20'

SCALE: 1" = 20'

0' 5' 10' 20'

COUNTY OF	ITEM NO.
DAVISS	2-9004

COM EMB DT RT
39 0 10



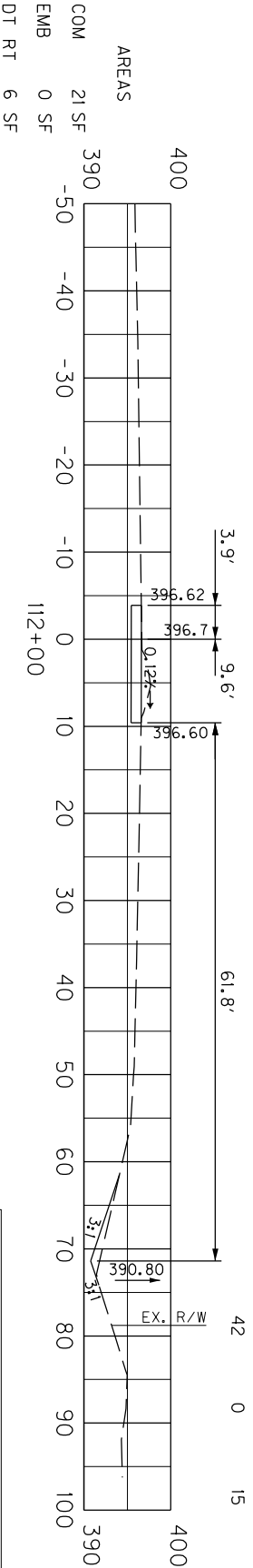
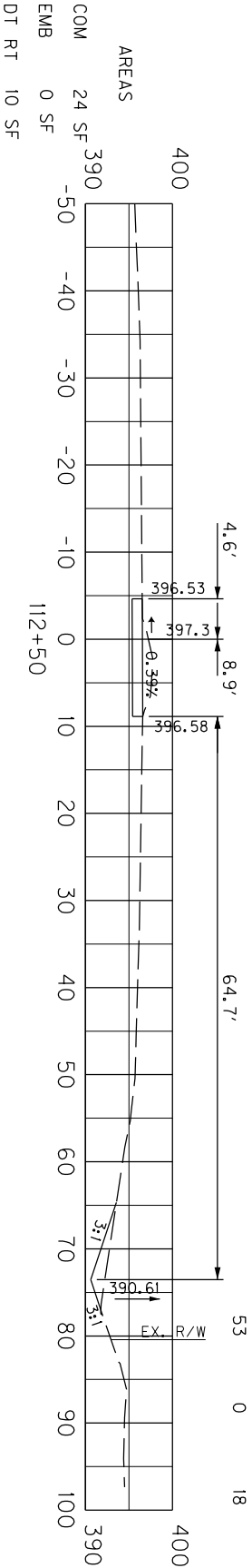
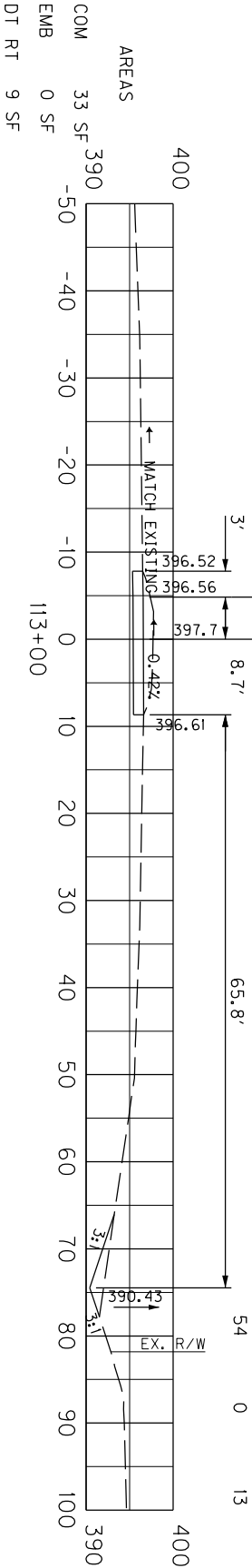
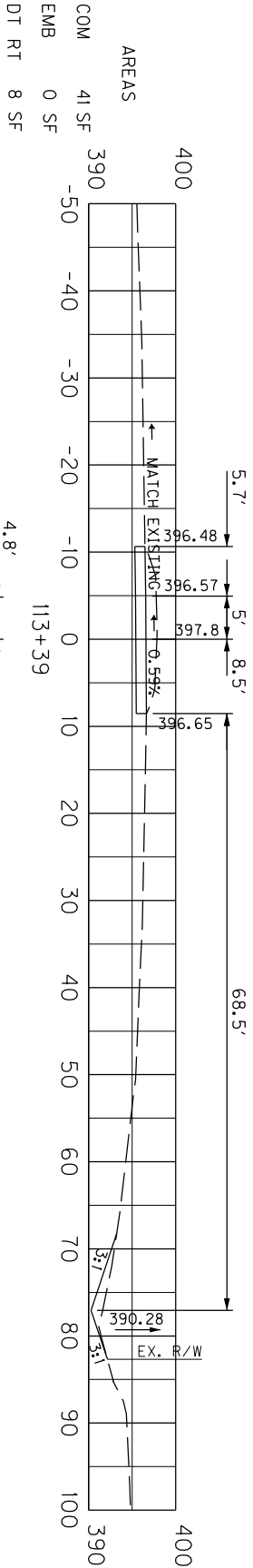
US 431 CROSS SECTIONS
STA. 110+00 TO STA. 112+50
SCALE: 1"= 20'



COUNTY OF	ITEM NO.
DAVIESS	2-9004

COM EMB DT RT

17 0 4

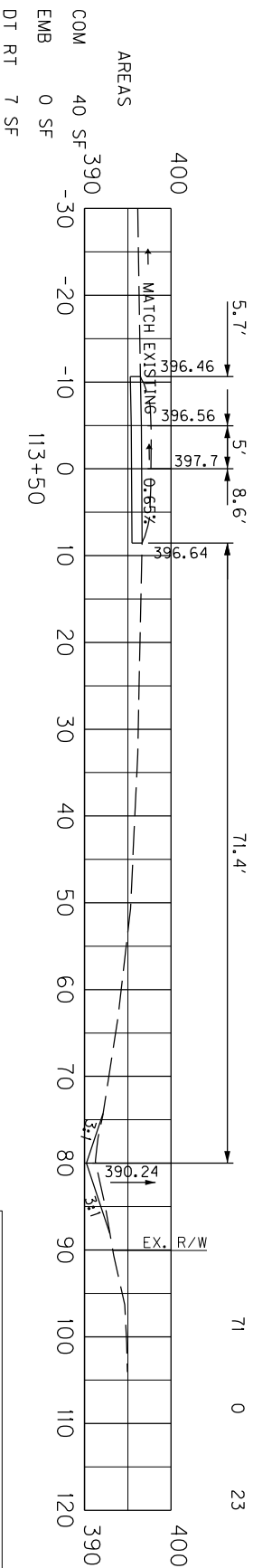
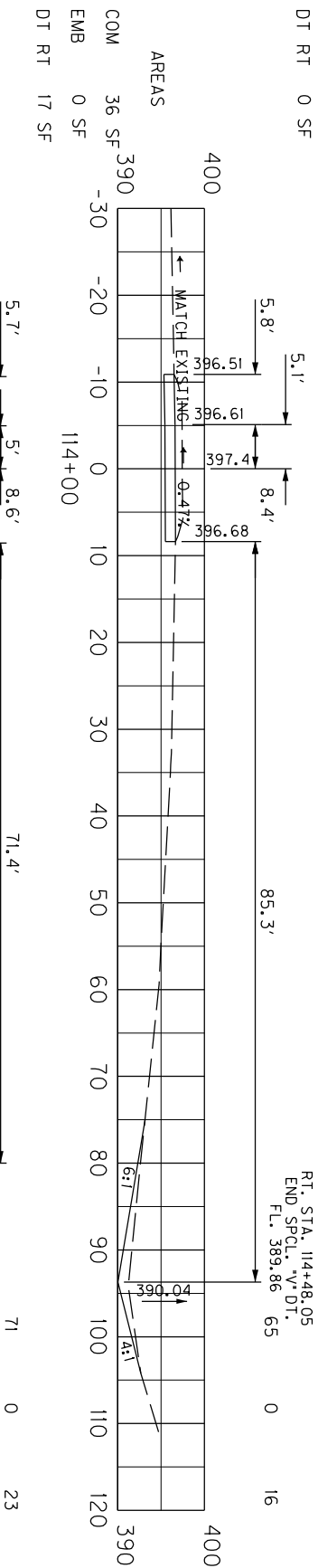
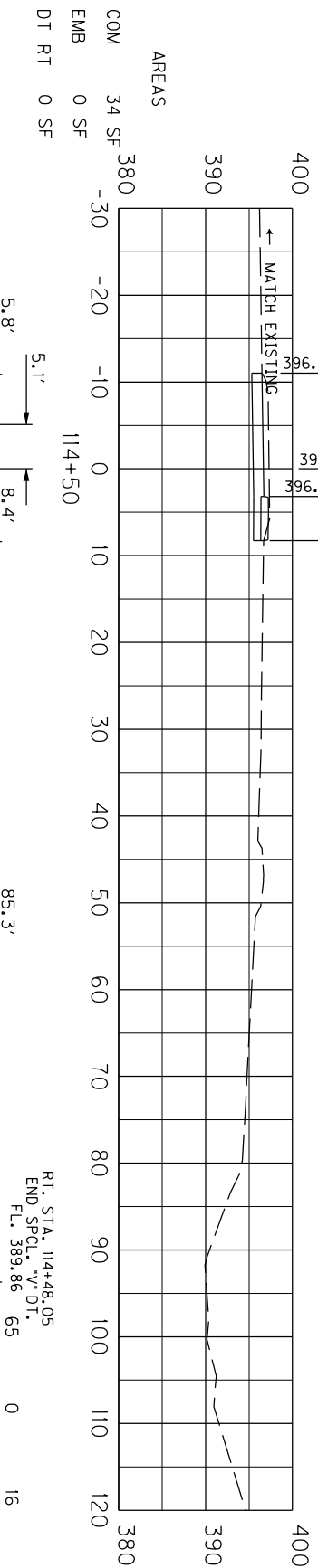
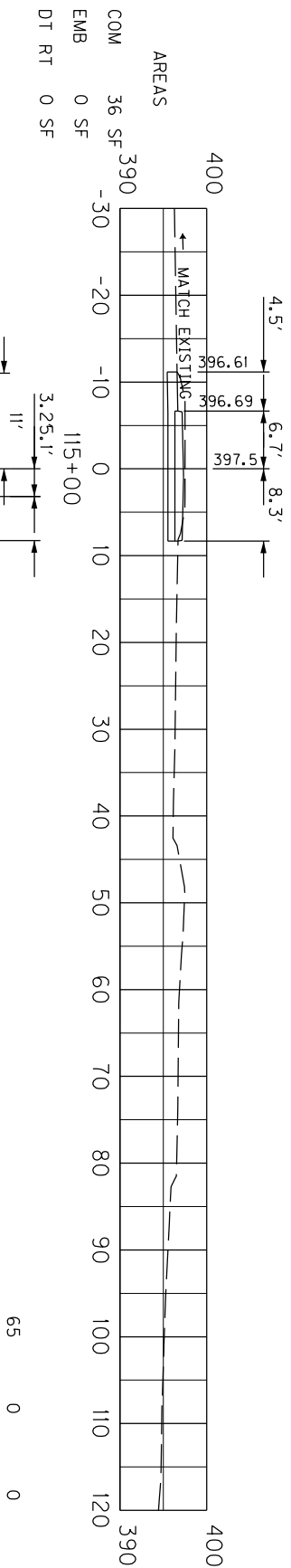


US 431 CROSS SECTIONS
STA. 112+00 TO STA. 113+39
SCALE: 1"= 20'

COUNTY OF	ITEM NO.
DAVISS	2-9004

<i>Earthwork Quantities</i>	
<i>Sta. 107+61.08 to 114+64.05</i>	
<i>Com</i>	<i>= 715</i>
<i>Emb</i>	<i>= 8</i>
<i>Dt. Rt.</i>	<i>= 180</i>

COM	EMB	DT	RT
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US 431 CROSS SECTIONS
STA. 113+50 TO STA. 114+50

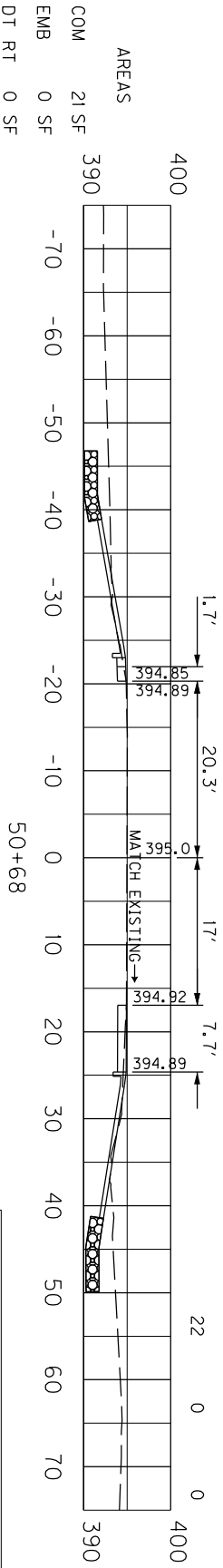
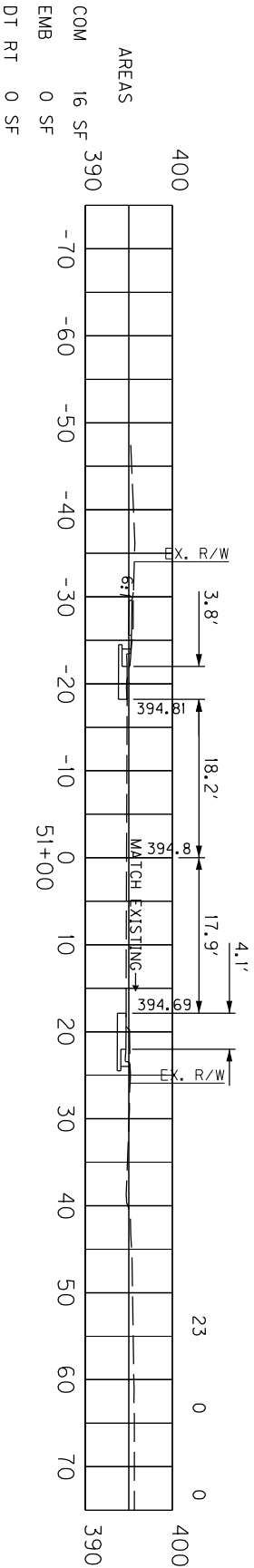
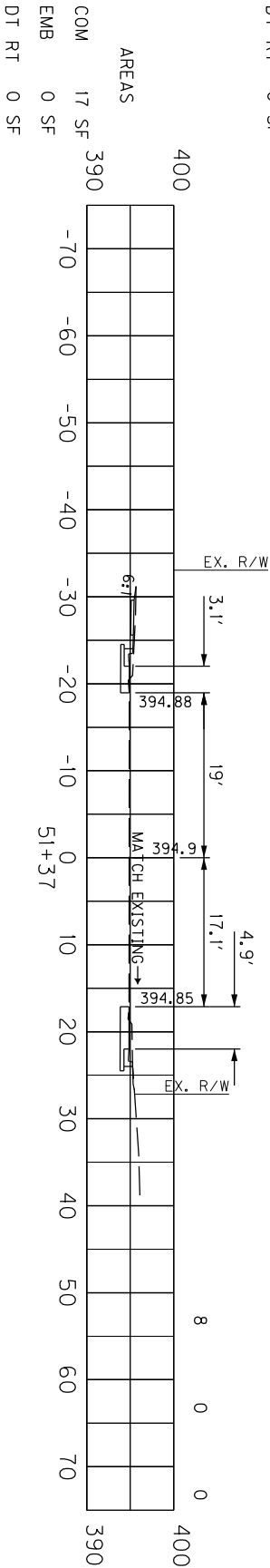
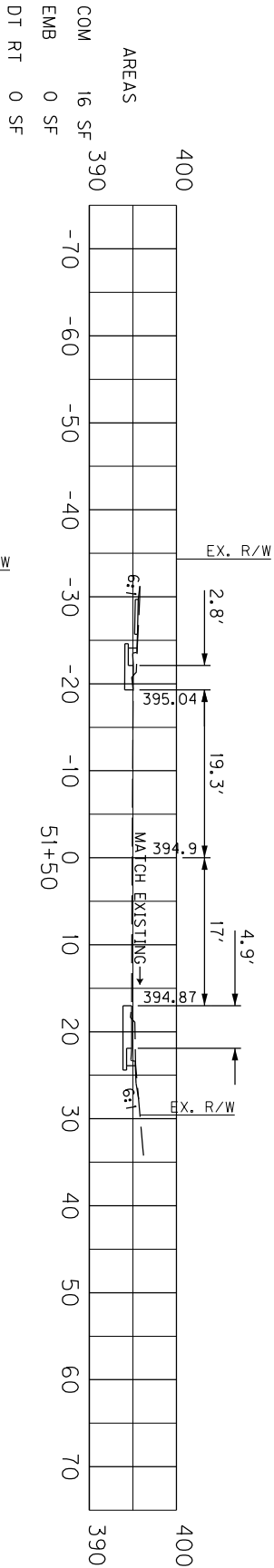
SCALE: 1" = 20'



MILL AND OVERLAY EXISTING PAVEMENT
MATCH EXISTING CROSS SLOPE FOR WIDENING
ADJUST AS NEEDED TO ENSURE POSITIVE DRAINAGE

COM EMB DT RT
44 0 0

COUNTY OF	ITEM NO.
DAVISS	2-9004



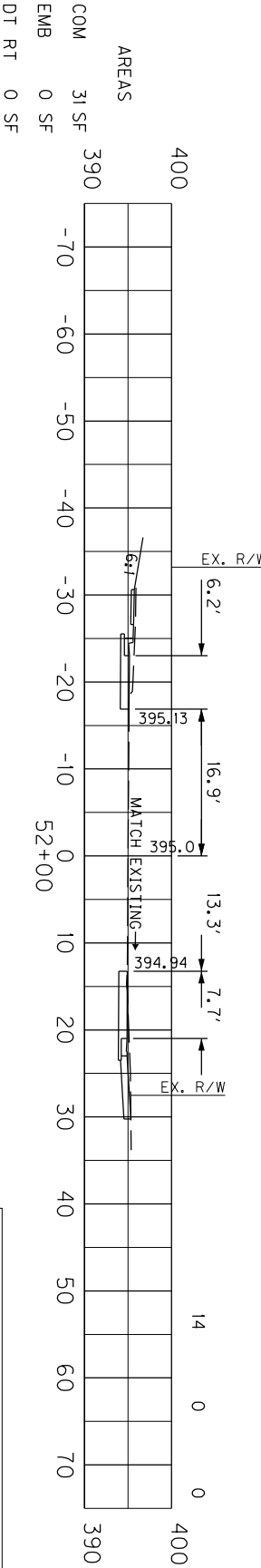
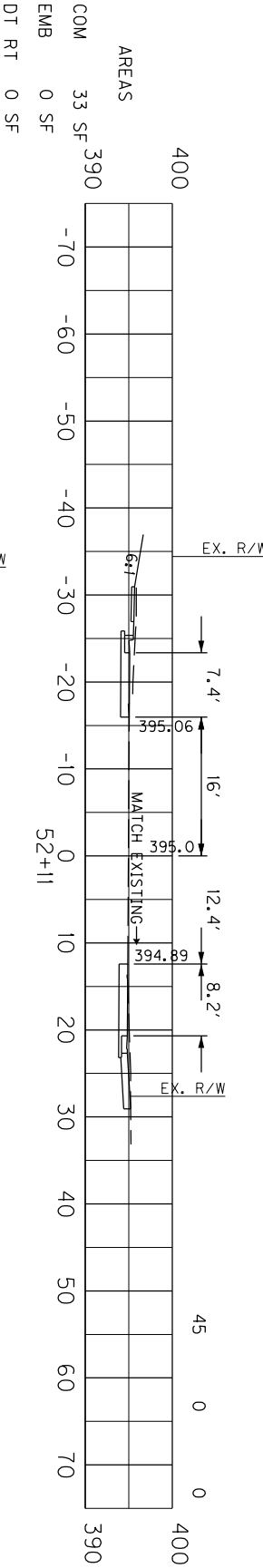
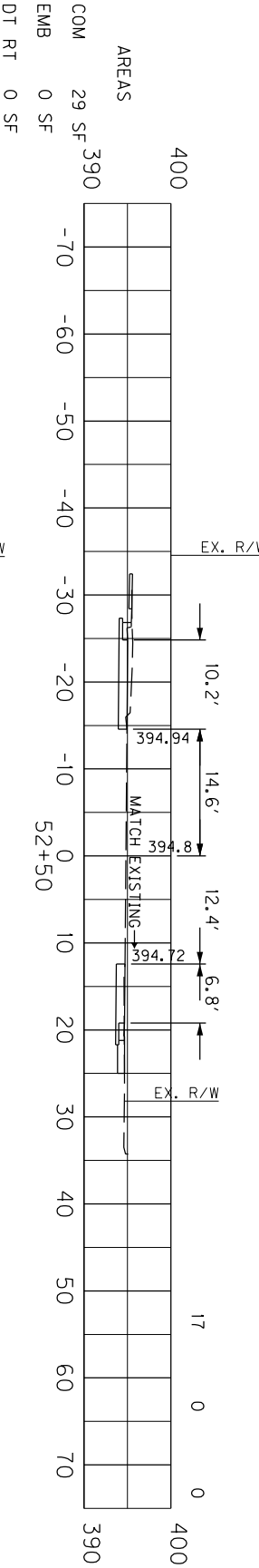
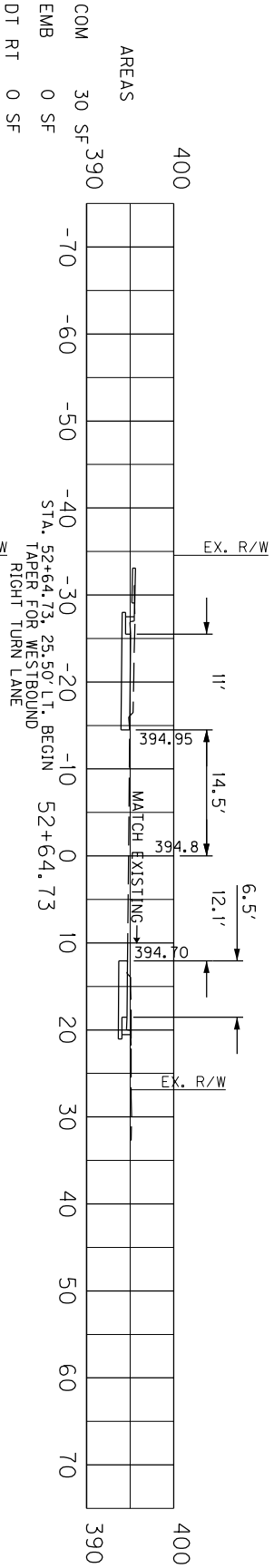
SALEM RD CROSS SECTIONS
STA. 50+68 TO STA. 51+50
SCALE: 1"= 20'



COUNTY OF	ITEM NO.
DAVISS	2-9004

MILL AND OVERLAY EXISTING PAVEMENT
MATCH EXISTING CROSS SLOPE FOR WIDENING
ADJUST AS NEEDED TO ENSURE POSITIVE DRAINAGE

COM	EMB	DT	RT
38	0	0	



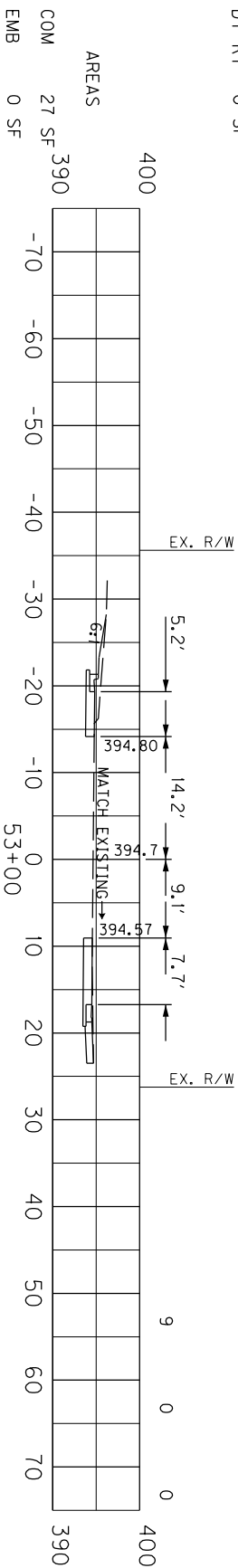
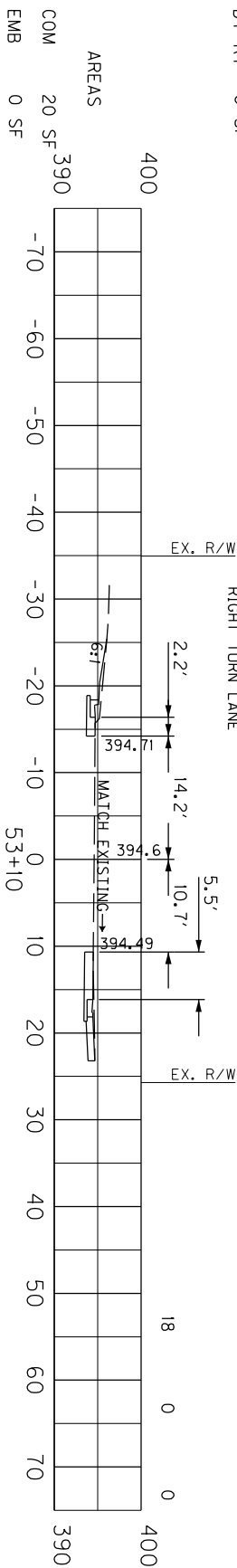
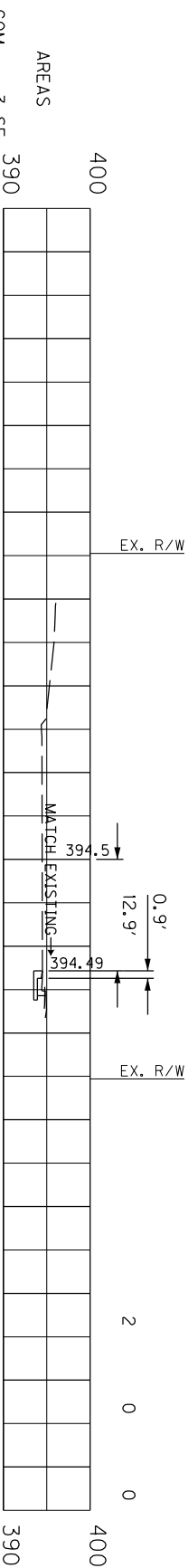
SALEM RD CROSS SECTIONS
STA. 52+00 TO STA. 52+64.73
SCALE: 1"= 20'

MILL AND OVERLAY EXISTING PAVEMENT
MATCH EXISTING CROSS SLOPE FOR WIDENING
ADJUST AS NEEDED TO ENSURE POSITIVE DRAINAGE

<i>Earthwork Quantities</i>	
<i>Sta. 50+68 to 53+73.85</i>	
Com	= 240
Emb	= 0
Dt. Rt.	= 0

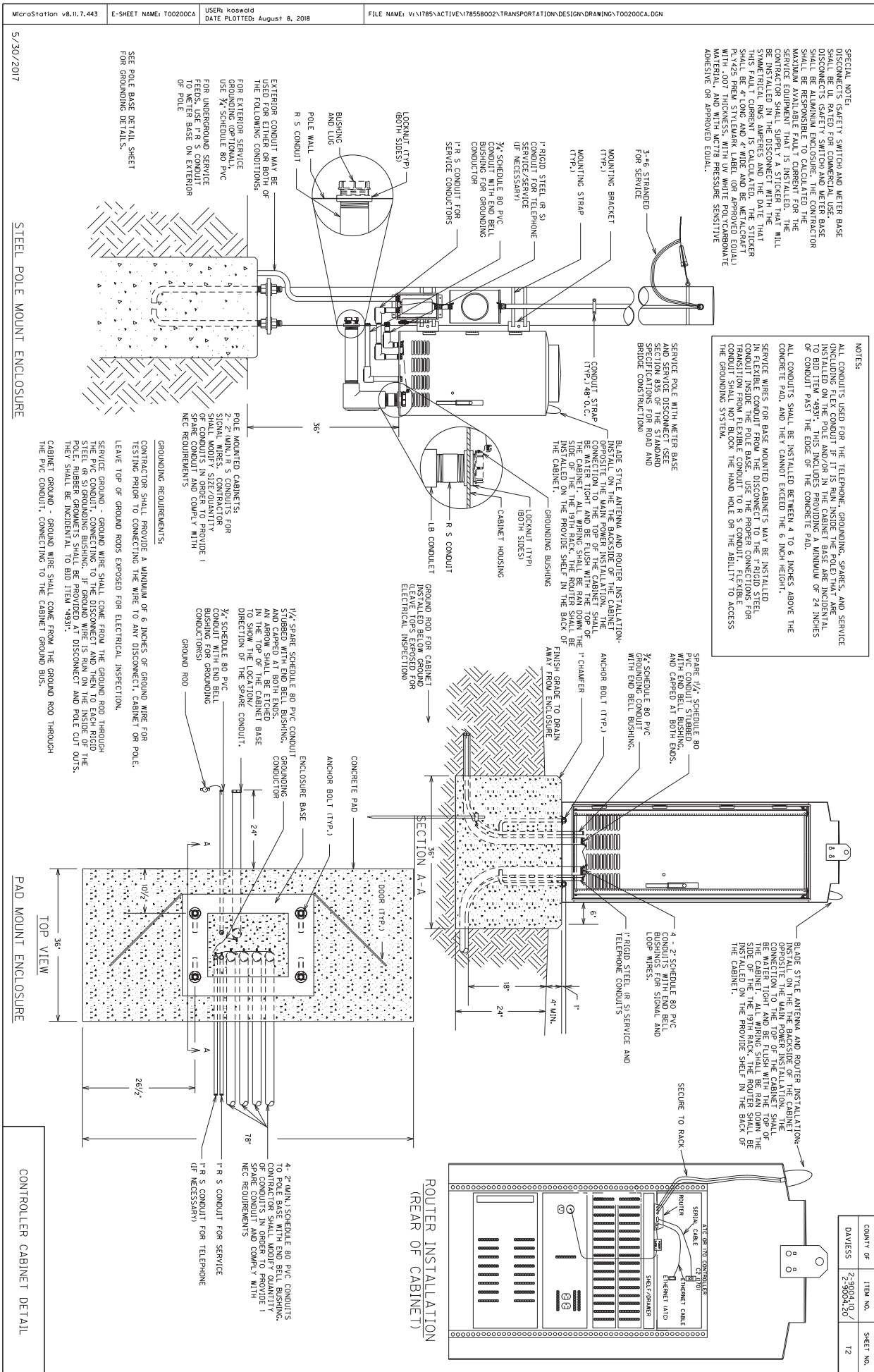
COUNTY OF	ITEM NO.
DAVIESS	2-9004

COM EMB DT RT



SALEM RD CROSS SECTIONS
STA. 53+00 TO STA. 53+50
SCALE: 1" = 20'





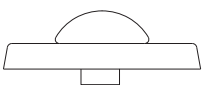
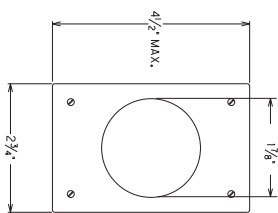
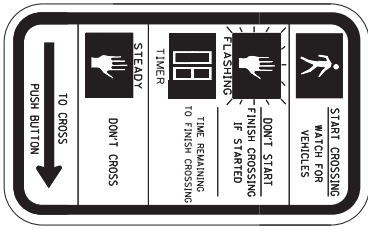
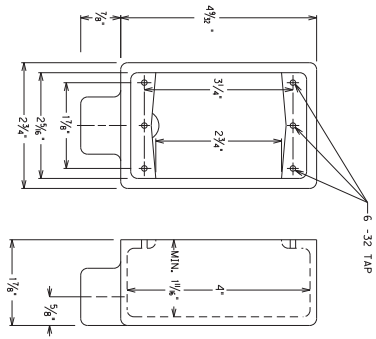
MicroStation v8.11.7.443	E-SHEET NAME: T00300LP USER: koswald DATE PLOTTED: August 8, 2018	FILE NAME: V:\1785\ACT\VE\178558002\TRANSPORTATION\DESIGN\DRAWING\T00300LP.DGN
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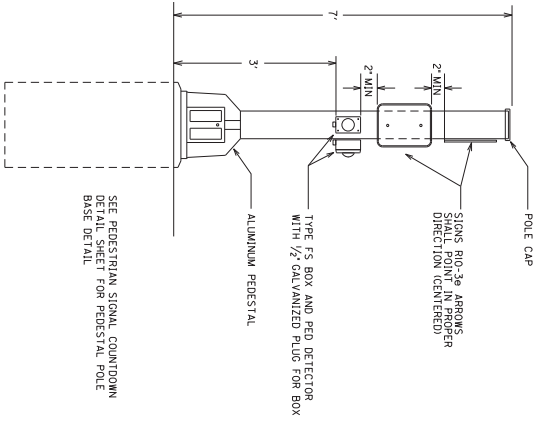
CONSTRUCTION DETAILS FOR LOOP SAW SLOT AND FILL BID ITEM:
THE FOLLOWING IS A TYPICAL STEP BY STEP PROCEDURE FOR THE
INSTALLATION OF A LOOP.

- CAREFULLY MARK THE SLOT TO BE CUT, PERPENDICULAR TO THE FLOW OF

COUNTY OF	ITEM NO.	SHEET NO.
DAVISS	2-9004.10	T 4



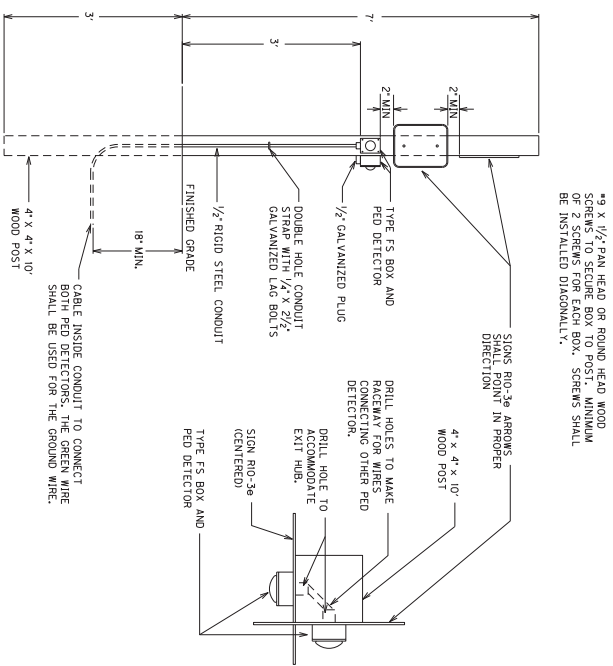
TYPE FS BOX FOR PED DETECTOR FOR USE WITH STEEL STRAIN POLE, WOOD POST, PEDESTAL, AND WOOD POLE



PEDESTAL POST DETAIL FOR PED DETECTORS & SIGNS

6/22/2012

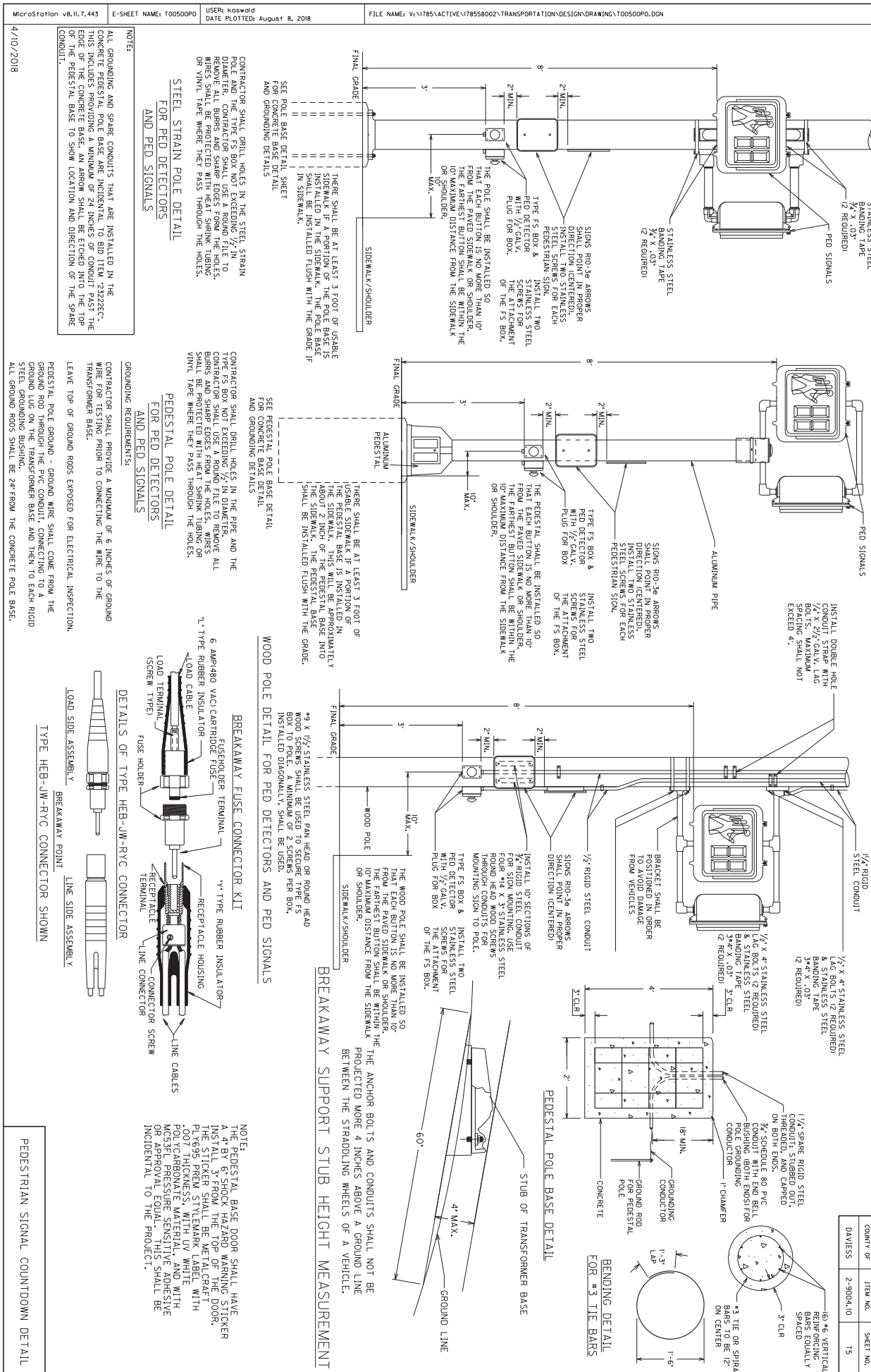
R10-3e SIGN (9" X 15")
FOR COUNTDOWN ONLY

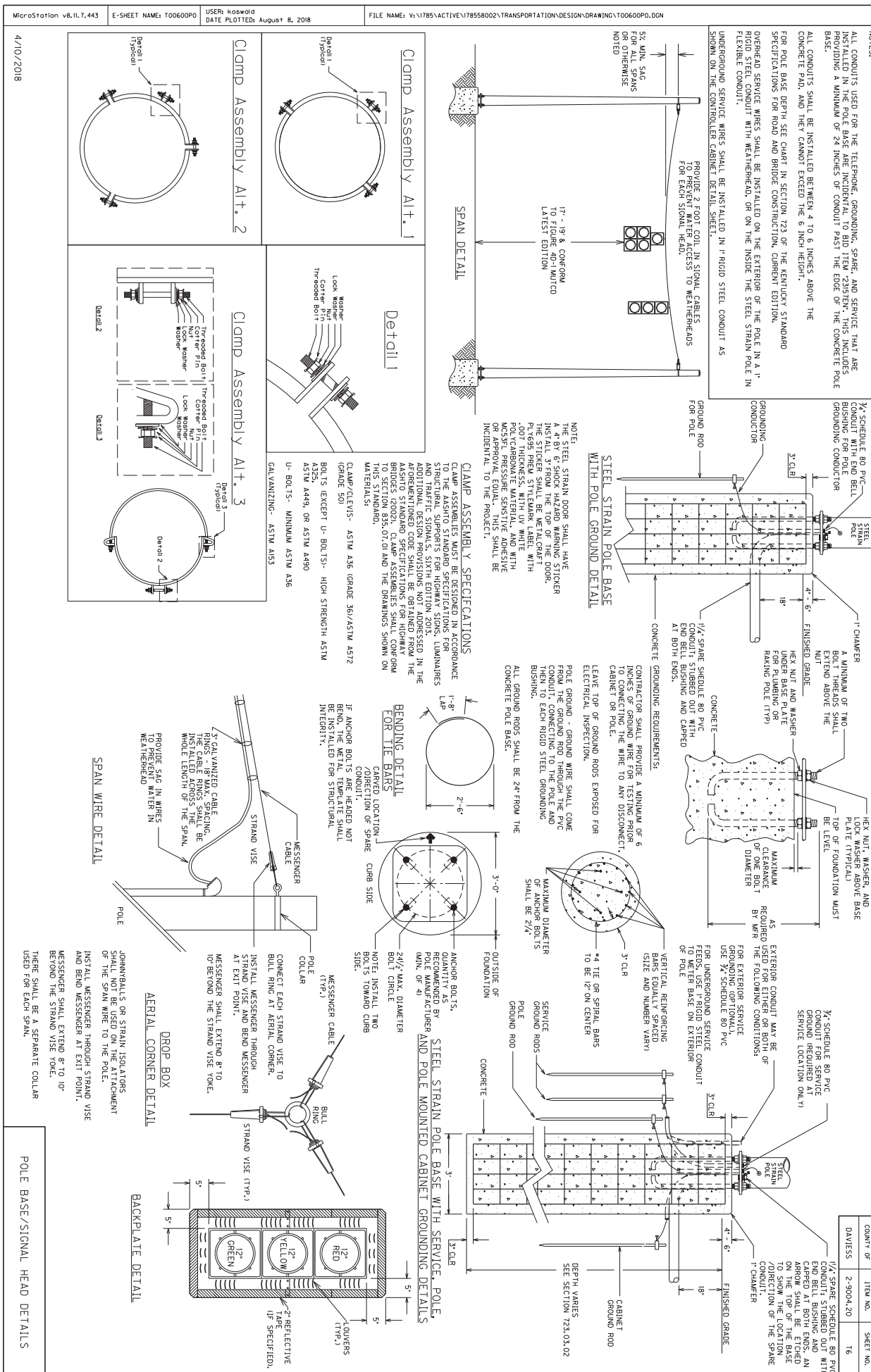


PED DETECTOR

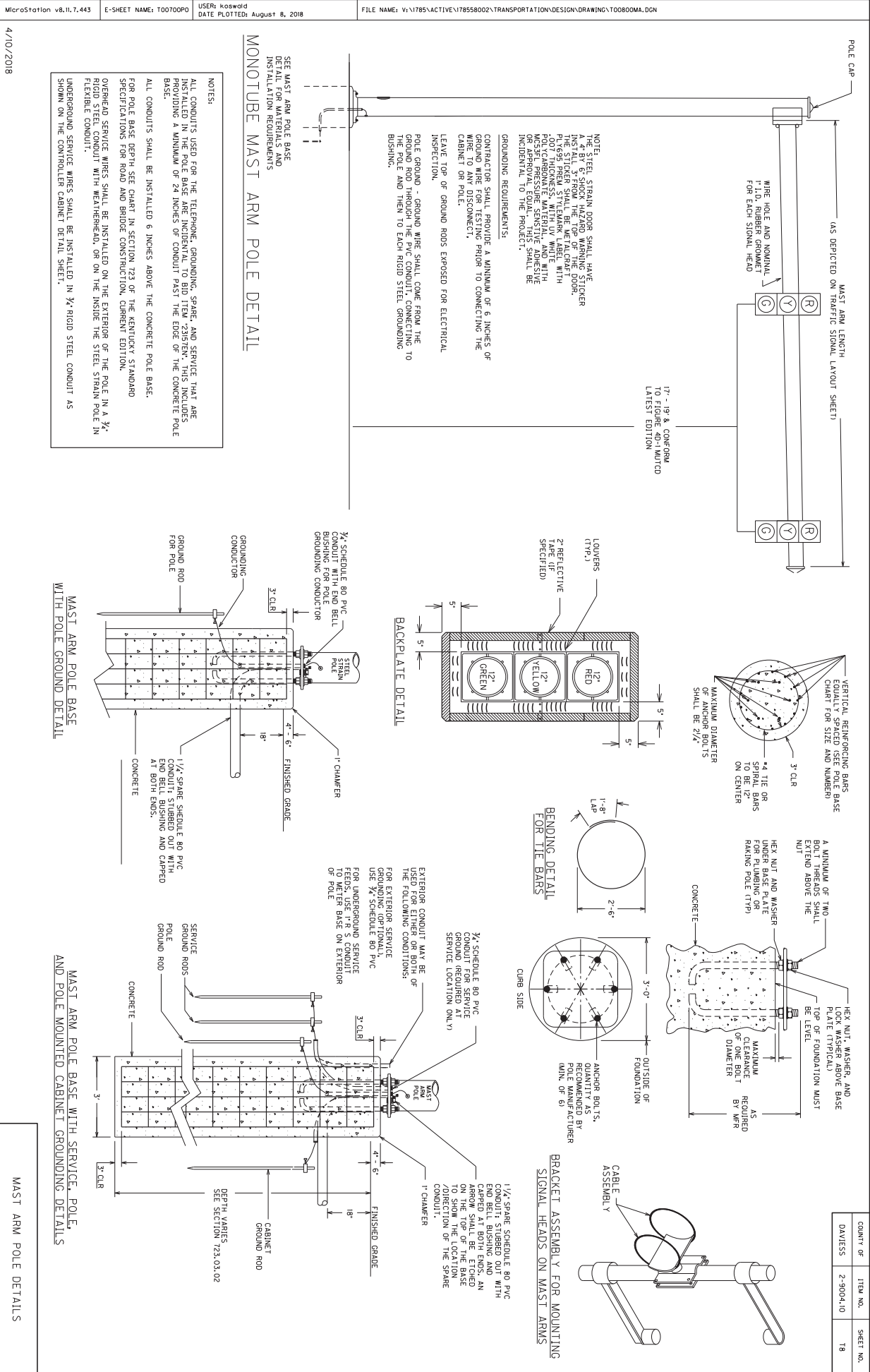
PED DETECTOR ON WOOD POST DETAIL

PEDESTRIAN DETECTOR DETAIL





[illegible]



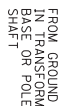
[illegible]



IF DUCTED CABLE INSTALLED BETWEEN POLE
BASES:
INSTALL RIGID STEEL DUCTED CABLE

COPIES MUST BE USED TO CONDUIT AND ADHESIVE. USE BONDING CONDUIT TO CONNECT THE RIGID OR APPROVED EQUAL TO CONNECT THE RIGID STEEL TO DUCTED CABLE. RACEWAYS SHALL BE THE SAME SIZE AS THE DUCTED CABLE WHICH ATTACHES TO THE RIGID STEEL CONDUIT. ALTERNATELY IF DUCTED CABLE IS USED, THE CONTRACTOR CAN INSTALL ONE OF THE DUCT AND RUN THE DUCT INSIDE OF THE DUCT AND RUN THE DUCT INSIDE THIS CONDUIT. THE SWEEP FOR THE DUCTED CABLE SHALL BE INCREASED TO ADEQUATE TO THE BENDING RADIUS RECOMMENDED BY THE MANUFACTURER OF THE DUCT.

DUCTED CABLE INSTALLED THROUGH 3" CONDUIT CROSSINGS TO LUMINAIRE POLE BASE: INSTALL DUCTED CABLE INTO THE POLE BASE. THE DUCT SHOULD BE EXTENDED 1" ABOVE THE CONDUIT. THE CONDUIT SWEEP SHOULD BE INSTALL ACCORDING TO THE MANUFACTURER OF THE DUCTED CABLE TO PREVENT THE DUCTED CABLE FROM CRIMPING.



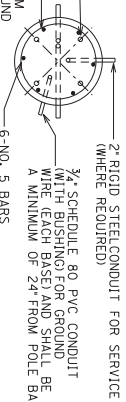
GROUNDING REQUIREMENTS:

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

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

NOTES:

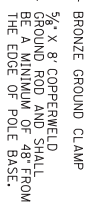
ALL CONDUITS USED FOR THE GROUNDING, SPARES AND CONDUCTORS THAT ARE INSTALLED IN THE POLE BASE ARE INCIDENTAL TO BID ITEM #1740. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE POLE BASE.



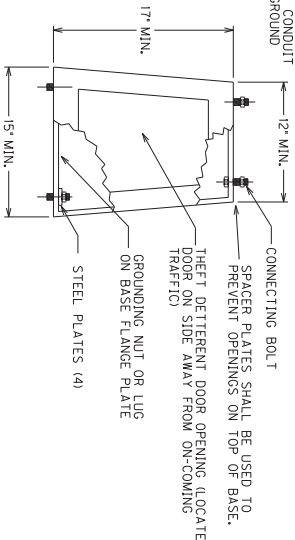
ALL POLE BASES SHALL HAVE A MINIMUM OF TWO CONDUITS (NOT INCLUDING GROUND CONDUIT). THE SPARE CONDUIT SHALL BE 180 DEGREE FROM THE CONDUIT FOR THE CONDUCTORS.

NOTE: PRECAST CONCRETE BASES ARE NOT ACCEPTABLE

3/20/2017



TO GROUND LUG
IN TRANSFORMER
BASE OR POLE
SHAFT



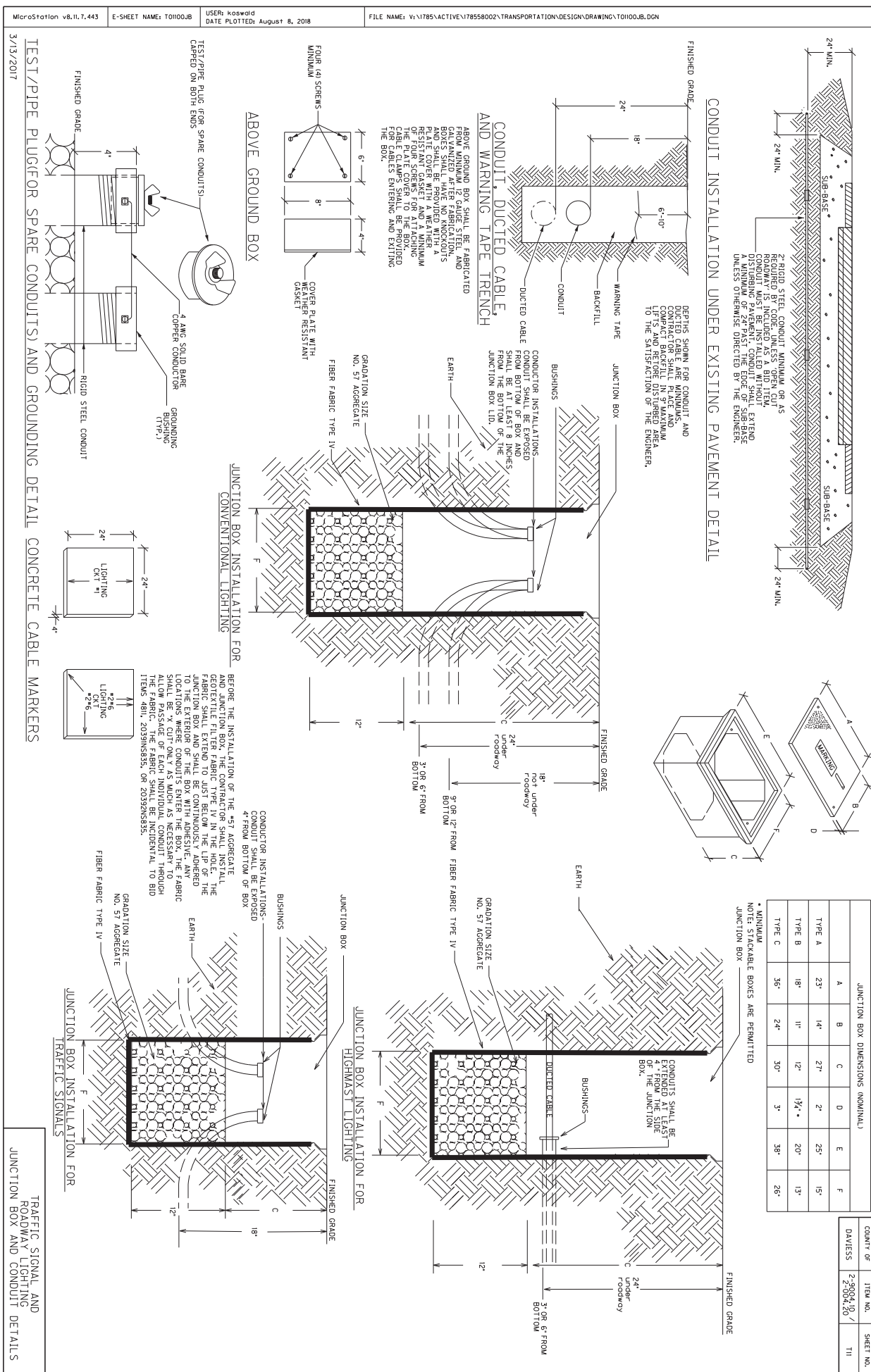
CONCRETE BASES SHALL BE POURED LEVEL.
NO MORE THAN A $\frac{3}{8}$ " GAP SHALL EXIST BETWEEN
CONCRETE BASE AND TRANSFORMER BASE WHEN THE
POLE IS PLUMBED.

CAST ALUMINUM TRANSFORMER BASE

NOTE: THE TRANSFORMER BASE DOOR SHALL HAVE A 4" BY 6" FLASH WARNING STICKER INSTALLED 3' FROM THE TOP OF THE DOOR. THE STICKER SHALL BE METALCRAFT PLYG65 PREM. STICKER LABEL WITH .007" THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH MC5351 PRESSURE SENSITIVE ADHESIVE OR APPROVAL EQUAL. THIS SHALL BE INCIDENTAL TO PROJECT.

TRANSFORMER BASE DETAIL

COUNTY OF	ITEM NO.	SHEET NO.
DAVISS	2-9004.10	T10



CONDUIT INSTALLATIONS IN
EXISTING LOCATIONS

PROPOSED LAYOUT

COUNTY OF	ITEM NO.	SHEET NO.
DAVIESS	2-9004.10	114

CALCULATED FORCES ARE APPROXIMATE. TO BE USED FOR ESTIMATING BASE DESIGN.
POLE MANUFACTURER SHALL PERFORM STANDARD DESIGN AND PROVIDE INFORMATION
ON SHOP DRAWINGS TO DETERMINE FINAL BASE DESIGN.

SERVICE LOADS - KY 283I @ KY 54 / KY 81			
ARM LENGTH	EX. POLE A	EX. POLE A	POLE B
50'	45'	34'	56'
CALCULATED GROUNDLINE MOMENT (K-FT)	EXISTING		44.92
MAST ARM	EXISTING		98.85
POLE HEIGHT (FT)	EXISTING		30
MAST ARM ATTACHMENT FROM POLE BASE (FT)	18	18	18
6" BRACKET ATTACHMENT FROM POLE BASE (FT)	EXISTING	28	28

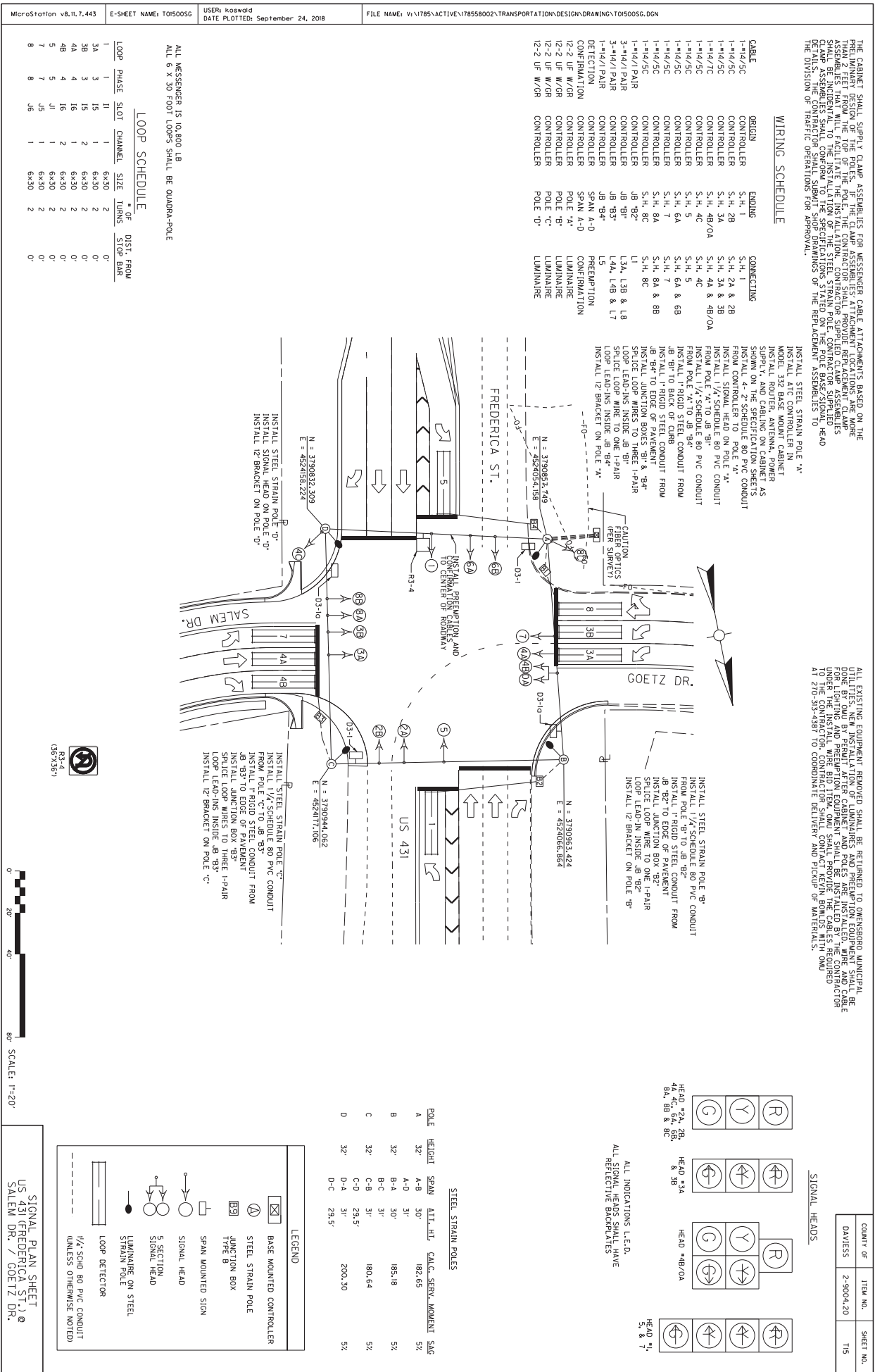
NOTES: CONTRACTOR SHALL EXPEDITE ACQUIRING ANCHOR BOLTS
FOR MAST ARM POLES AS SOON AS THE CONTRACT IS AWARDED.

ALL MAST ARM POLES SHALL HAVE A 3 DEGREE RISE OF THE ARM,
BASE PLATE OF VERTICAL POLE SHALL BE ROUND AND FIT INSIDE
A 36 INCH DIAMETER BASE.

DIMENSIONS OF SIGNAL HEADS LENGTH x WIDTH x THICKNESS):
4 SECTION - 24"x24"x16 (45 LBS)
4 SECTION - 73"x24"x16 (60 LBS)

NOT TO SCALE

KY 283I @ KY 54 / KY 81 ORIENTATION DIAGRAMS



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

Item Number: 2-9004.20

County: DAVIESS

Description: US 431 FREDERICA ST @ SALEM DR/ GOETZ DR

Cabinets	Master code	Description of Item
	1 T-01-0020	Base Mounted 332 Cabinet
	1 T-01-0105	ATC Controller
	1 T-01-0106	1C w/Maxtime (this should go with item ATC controller)
	1 T-01-0501	Conflict Monitor, Model 2018Special Order
	6 T-01-0600	Loop Detector, Model 222
	12 T-01-0700	Load Switches
Signals		
	11 T-02-0009	Siemens 3 Section Signal
	11 T-02-0015	Siemen 3 Section backplate w/tapeSpecial Order
	3 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
	3 T-02-0016	Siemen 4 Section in-line backplate w/tape (poly only)Special Order
	5 T-02-0300	LED Module 12" red arrow
	9 T-02-0310	LED Module 12" yellow arrow
	6 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		
	1 T-02-0504	Router (this includes power supply/antenna/cabling)
Poles		
	4 T-04-0030	Steel Strain Pole 32 foot

Electrical Contractor Name

Electrical Contractor Supervisor

Project Engineer

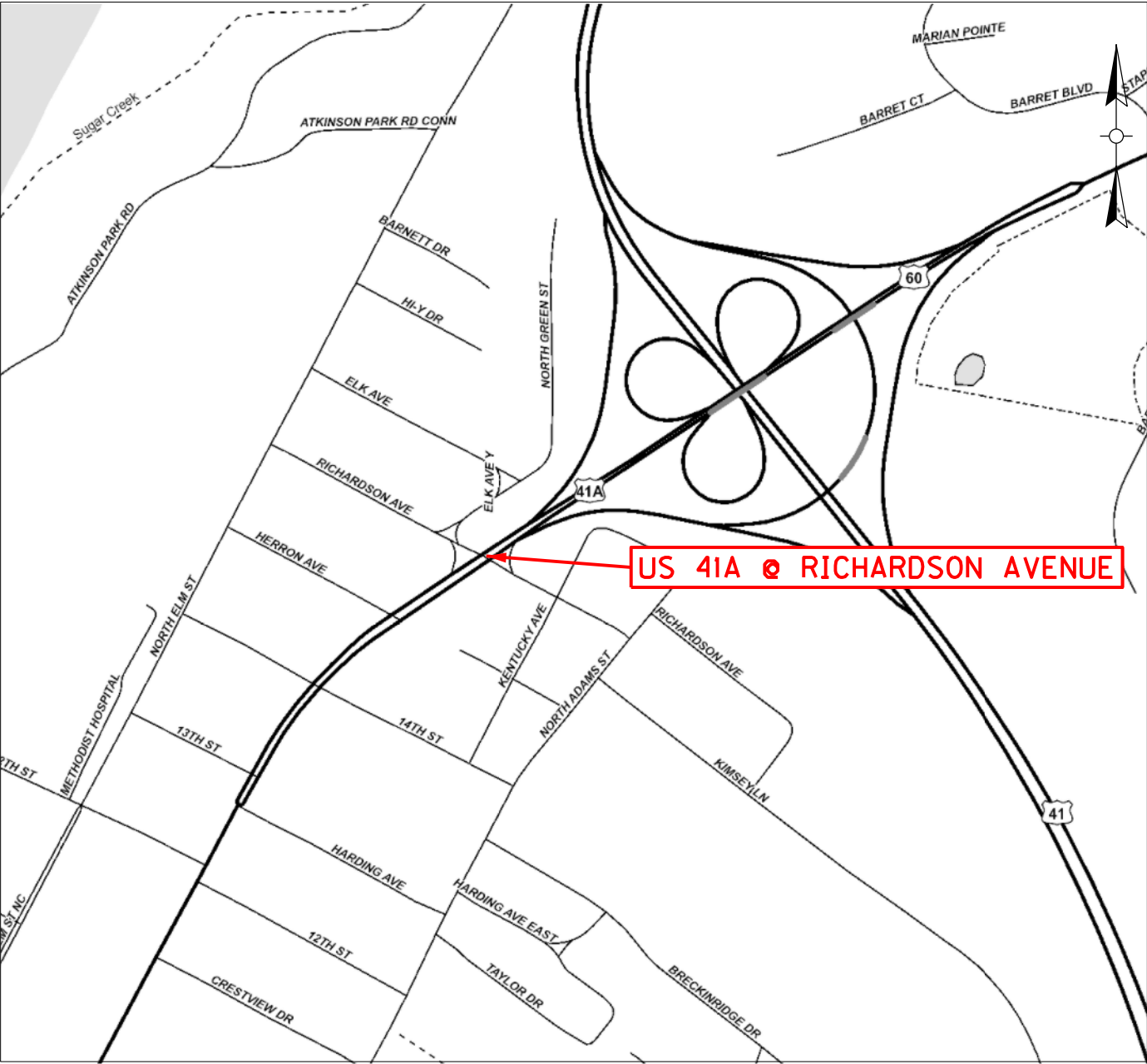
Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

Signature of Project Engineer or Designee

Contact number for Supervisor

Contact number for Project Engineer

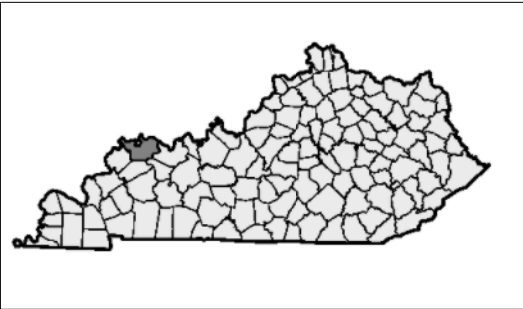
COUNTY OF	ITEM NO.
HENDERSON	2-9004.30



1" = 2000'

HENDERSON COUNTY
US 41A
MP 17.200

ITEM NO. HSIP 9010 (309)
PROJECT _____
NUMBER: _____



COUNTY OF	ITEM NO.
HENDERSON	2-9004.30

US 41A @ RICHARDSON AVENUE

GENERAL SUMMARY

BID ITEM CODE	BID ITEM DESCRIPTION	UNIT	QTY
2650	MAINTAIN & CONTROL TRAFFIC (US 41A @ RICHARDSON AVENUE)	LS	1
2726	STAKING (US 41A @ RICHARDSON AVENUE)	LS	1
1919	STANDARD BARRIER MEDIAN TYPE 3	SY	76
6406	SBM ALUM SHEET SIGNS .080 IN	SF	38.6
6410	STEEL POST TYPE 2	LF	104
6514	PAVE STRIPING-PERM PAINT- 4 IN	LF	1199
6569	PAVE MARKING-THERMO CROSS-HATCH	SF	306
6574	PAVE MARKING-THERMO CURV ARROW	EACH	5
21373ND	REMOVE SIGN	EACH	5
22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN	LF	35
23839EC	REMOVE CONCRETE MEDIAN	SY	14
24631EC	BARCODE SIGN INVENTORY	EACH	8
2569	DEMOBILIZATION	LS	1

MEDIAN SUMMARY

BEGIN STA	END STA	WIDTH	LENGTH	TYPE
102+55	104+25	4'	170'	STANDARD BARRIDER MEDIAN TYPE 3

SIGN REMOVAL SUMMARY

STATION	OFFSET	SIGN
199+22	50' RT	YIELD
199+41	17' RT	STOP
200+64	23' LT	STOP
201+07	62' LT	YIELD
104+25	0'	NO LEFT TURN

ALL QUANTITIES CARRIED OVER TO GENERAL SUMMARY

US 41A @ RICHARDSON AVENUE

COUNTY OF	ITEM NO.
HENDERSON	2-9004.30

MARKING

STATION	OFFSET	DESCRIPTION	UNIT	QUANTITY
198+29	5' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
198+94	23' RT	PAVE MARKING-THERMO CURV ARROW	EACH	1
199+11	53' RT	PAVE MARKING-THERMO YIELD BAR-36 IN	LF	15
199+79	29' LT	PAVE MARKING-THERMO CURV ARROW	EACH	1
200+89	52' LT	PAVE MARKING-THERMO YIELD BAR-36 IN	LF	20
201+09	24' LT	PAVE MARKING-THERMO CURV ARROW	EACH	1
201+65	5' LT	PAVE MARKING-THERMO CURV ARROW	EACH	1

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

ALL QUANTITIES CARRIED OVER TO GENERAL SUMMARY

STRIPING

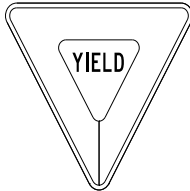


BEGIN STA	BEGIN OFFSET	END STA	END OFFSET	LENGTH	TYPE	DESCRIPTION
101+73	26' LT	103+32	26' LT	159'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
102+55	3' LT	104+25	3' LT	170'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID YELLOW LINE
102+55	3' RT	104+25	3' RT	170'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID YELLOW LINE
103+20	39' RT	104+04	39' RT	84'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
198+25	0'	198+75	0'	100'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE
198+75	0'	199+20	68' RT	86'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID YELLOW LINE
199+11	110' RT	199+20	68' RT	44'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
198+75	0'	199+86	29' LT	123'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
200+38	12' RT	201+20	0'	85'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID WHITE LINE
200+77	62' LT	201+20	0'	78'	PAVE STRIPING-PERM PAINT 4 IN	SINGLE SOLID YELLOW LINE
201+20	0'	201+70	0'	100'	PAVE STRIPING-PERM PAINT 4 IN	DOUBLE SOLID YELLOW LINE

CROSS-HATCHING

BEGIN STA	END STA	SIDE	TYPE	DESCRIPTION
101+73	103+32	LEFT	PAVE MARKING THERMO CROSS-HATCH	12" WIDTH AT 10' SPACING
103+20	201+20	RIGHT	PAVE MARKING THERMO CROSS-HATCH	12" WIDTH AT 10' SPACING

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.
HENDERSON	2-9004.30

SIGN/SIGN ASSEMBLY NUMBER	SIZES			SIGN / SIGN MESSAGE ①	MUTCD CODE	SIGN LOCATION				ESTIMATED POST LENGTH	
	IN INCHES		SQUARE FEET			SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	AT APPROXIMATE STATION, OFFSET	NO. OF POST	LF
	HORIZ.	VERT.									
S-1 S-2 S-7 S-8	36×36×36		3.9		R1-2	RT	EB	RICHARDSON	199+00, 60' RT	1	13
	36×36×36		3.9		R1-2	MED	EB	RICHARDSON	199+22, 50' RT	1	13
	36×36×36		3.9		R1-2	RT	WB	RICHARDSON	200+76, 47' LT	1	13
	36×36×36		3.9		R1-2	MED	WB	RICHARDSON	201+07, 62' LT	1	13
S-3 S-6	30	36	7.5		R3-5(R)	RT	EB	RICHARDSON	198+66, 13' RT	1	13
	30	36	7.5		R3-5(R)	RT	WB	RICHARDSON	201+50, 20' LT	1	13
S-4 S-5	24	24	4		R3-2	MED	EB	RICHARDSON	199+41, 17' RT	1	13
	24	24	4		R3-2	MED	WB	RICHARDSON	200+64, 23' LT	1	13

SPECIAL 1. THE COLORS SHALL BE AS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS".

NOTES:

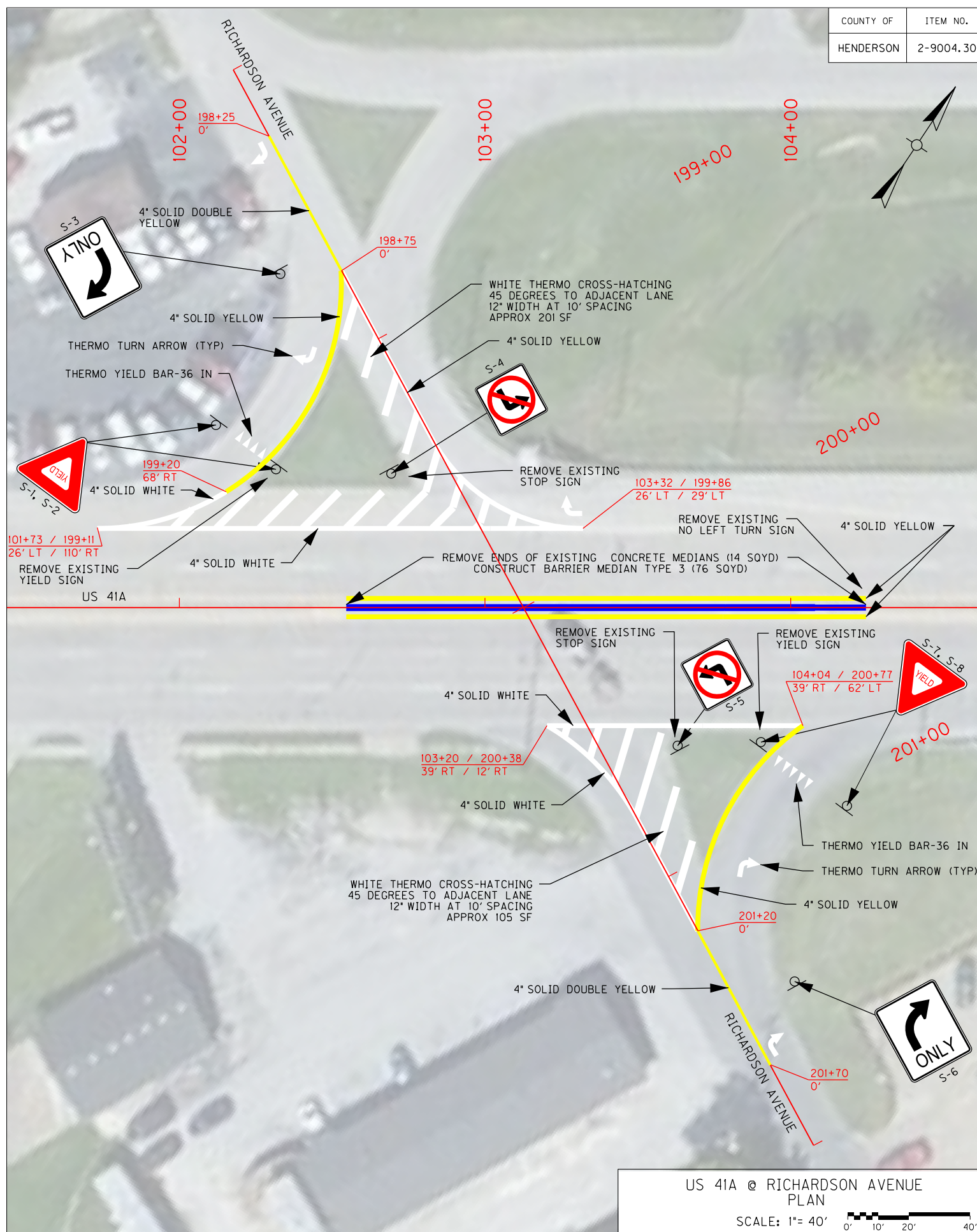
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36" (THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE MATERIAL SHALL BE USED.

3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABILIZER. SEE THE SHEETING SIGN DETAIL SHEETS AND THE SPECIAL NOTE FOR SIGNING.

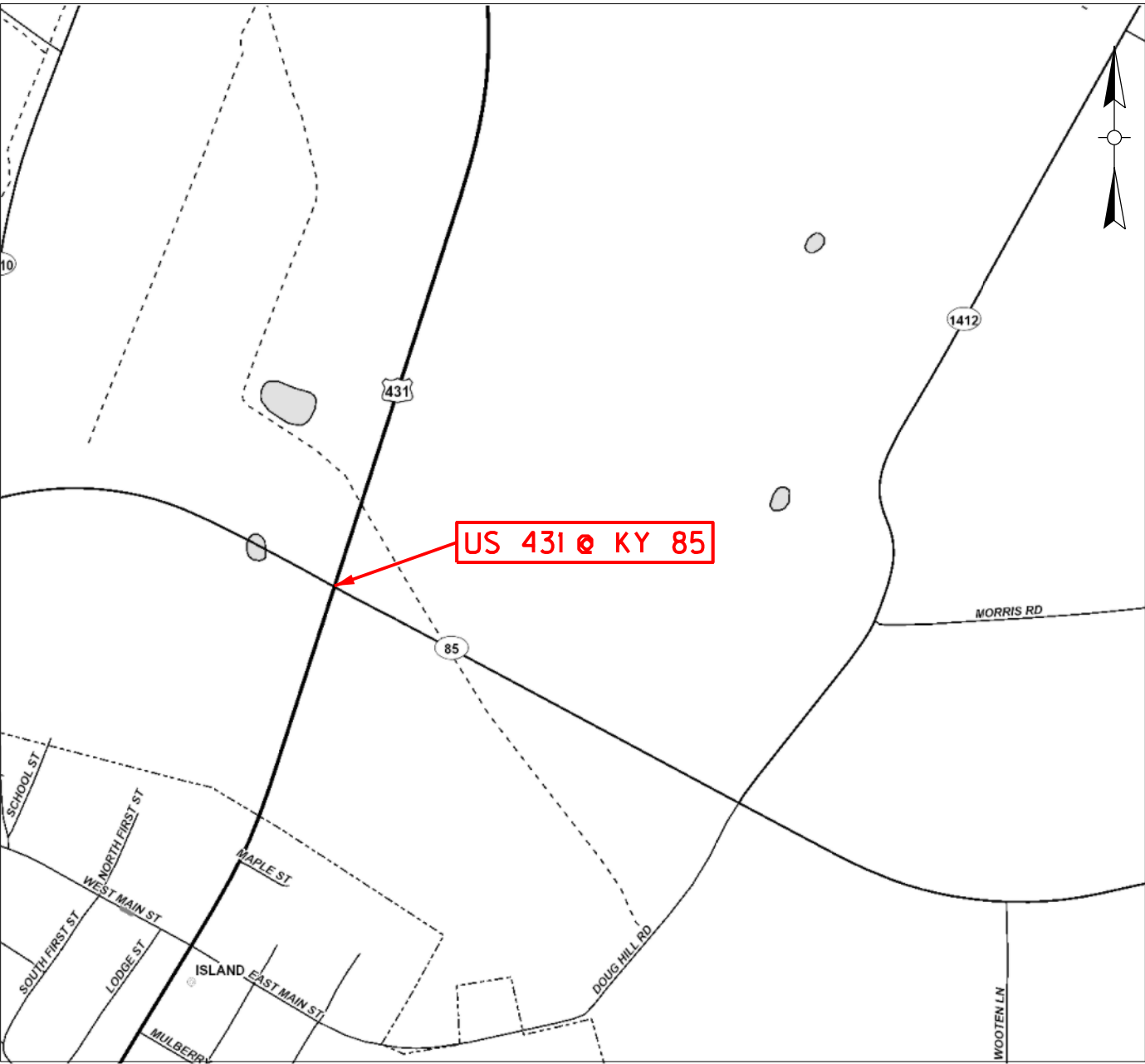
4. POSTS SHALL BE 2" X 2", 12 GAUGE

SHEETING SIGN DETAIL SHEET

SCALE: NTS



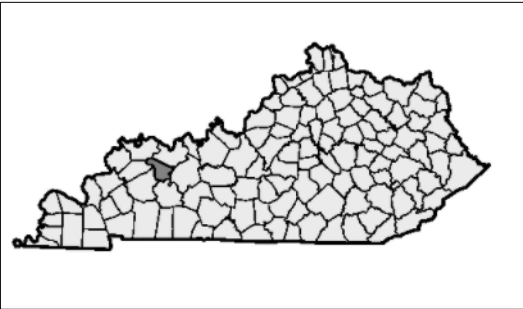
COUNTY OF	ITEM NO.
MCLEAN	2-9004.40



1" = 2000'

MCLEAN COUNTY
US 431
MP 2.766

ITEM NO. HSIP 4311 (040)
PROJECT _____
NUMBER: _____



COUNTY OF	ITEM NO.
MCLEAN	2-9004.40

US 431 @ KY 85

GENERAL SUMMARY

BID ITEM CODE	BID ITEM DESCRIPTION	UNIT	QTY
2650	MAINTAIN & CONTROL TRAFFIC (US 431 @ KY 85)	LS	1
2726	STAKING (US 431 @ KY 85)	LS	1
1987	DELINEATOR FOR GUARDRAIL B/W	EACH	50
6569	PAVE MARKING-THERMO CROSS-HATCH	SF	4440
2569	DEMOBILIZATION	LS	1

CROSS-HATCHING

BEGIN STA	END STA	SIDE	TYPE	DESCRIPTION
34+14	49+40	RIGHT	PAVE MARKING THERMO CROSS-HATCH	24" WIDTH AT 20' SPACING
34+14	49+67	LEFT	PAVE MARKING THERMO CROSS-HATCH	24" WIDTH AT 20' SPACING
50+33	58+52	RIGHT	PAVE MARKING THERMO CROSS-HATCH	24" WIDTH AT 20' SPACING
50+63	58+52	LEFT	PAVE MARKING THERMO CROSS-HATCH	24" WIDTH AT 20' SPACING

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

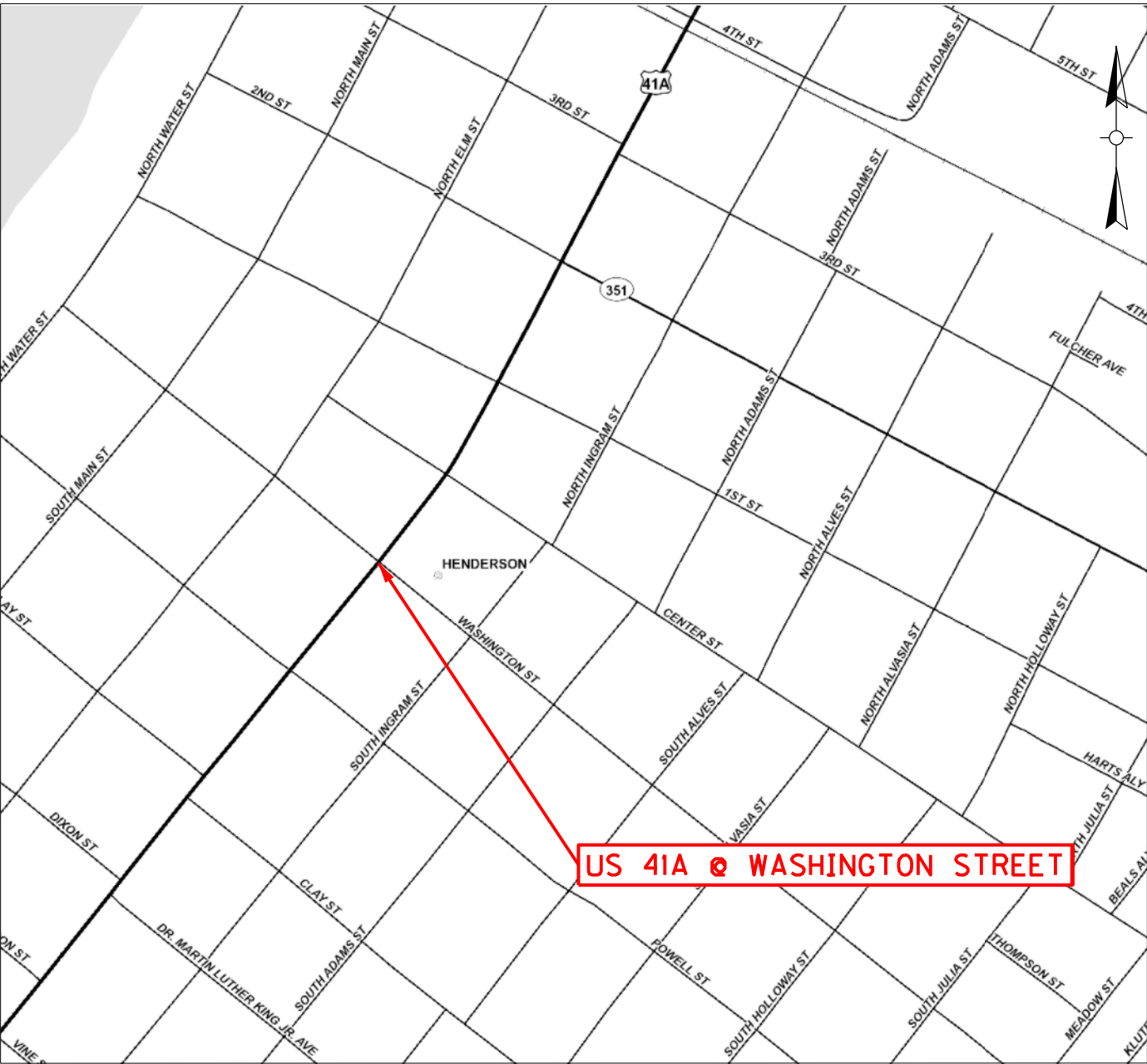
ALL QUANTITIES CARRIED OVER TO GENERAL SUMMARY

DELINEATORS FOR GUARDRAIL B/W

STATION	SIDE	STATION	SIDE	STATION	SIDE	STATION	SIDE
186+33	LEFT	192+90	RIGHT	199+83	LEFT	49+35	LEFT
186+95	LEFT	193+46	LEFT	199+83	RIGHT	49+36	RIGHT
187+58	LEFT	193+58	RIGHT	200+89	LEFT	49+65	LEFT
188+17	LEFT	194+09	LEFT	200+91	RIGHT	50+38	RIGHT
188+76	LEFT	194+30	RIGHT	201+91	RIGHT	50+59	LEFT
189+37	LEFT	195+63	LEFT	201+92	LEFT	50+65	RIGHT
189+91	RIGHT	195+91	RIGHT	43+96	LEFT	50+92	LEFT
189+92	LEFT	196+62	LEFT	44+96	LEFT	51+54	RIGHT
191+06	LEFT	196+82	RIGHT	46+06	LEFT	51+58	LEFT
191+07	RIGHT	197+66	RIGHT	47+16	LEFT	52+49	LEFT
192+30	LEFT	197+69	LEFT	47+83	RIGHT	52+50	RIGHT
192+30	RIGHT	198+73	RIGHT	48+26	LEFT		
192+90	LEFT	198+75	LEFT	49+11	RIGHT		



COUNTY OF	ITEM NO.
HENDERSON	2-9004.50



1" = 2000'

HENDERSON COUNTY
US 41A
MP 15.663

ITEM NO. HSIP 9010 (310)
PROJECT _____
NUMBER: _____



COUNTY OF	ITEM NO.
HENDERSON	2-9004.50

US 41A @ WASHINGTON STREET

GENERAL SUMMARY

BID ITEM CODE	BID ITEM DESCRIPTION	UNIT	QTY
2650	MAINTAIN & CONTROL TRAFFIC (US 41A @ WASHINGTON STREET)	LS	1
2726	STAKING (US 41A @ WASHINGTON STREET)	LS	1
4844	CABLE-NO. 14/5C	LF	255
4950	REMOVE SIGNAL EQUIPMENT (US 41A @ WASHINGTON STREET)	EACH	1
20188NS835	INSTALL LED SIGNAL - 3 SECTION	EACH	10
2569	DEMOBILIZATION	LS	1

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

US 41A @ WASHINGTON STREET

REPLACE EXISTING SIGNAL HEADS

COUNTY OF	ITEM NO.
HENDERSON	2-9004.50

STATION*	OFFSET*	DESCRIPTION
54+85	41' RT	3 SECTION W/REFLECTIVE BACKPLATE
54+95	41' RT	3 SECTION W/REFLECTIVE BACKPLATE
55+01	30' LT	3 SECTION W/REFLECTIVE BACKPLATE
55+11	30' LT	3 SECTION W/REFLECTIVE BACKPLATE
55+33	1' RT	3 SECTION FYA W/REFLECTIVE BACKPLATE
55+31	21' RT	3 SECTION W/REFLECTIVE BACKPLATE
55+32	11' RT	3 SECTION W/REFLECTIVE BACKPLATE
54+73	0'	3 SECTION FYA W/REFLECTIVE BACKPLATE
54+74	11' LT	3 SECTION W/REFLECTIVE BACKPLATE
54+76	22' LT	3 SECTION W/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.

ALL QUANTITIES CARRIED OVER TO GENERAL SUMMARY

SIGNAL HEAD REPLACEMENTS

SIGNAL HEADS FOR EB WASHINGTON

SIGNAL HEAD	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	0	2	0	2	0

SIGNAL HEADS FOR WB WASHINGTON

SIGNAL HEAD	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	0	2	0	2	0

SIGNAL HEADS FOR NB US 41A

SIGNAL HEAD	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/REFLECTIVE BACKPLATE		1		2		
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	1	2	2	2	0

SIGNAL HEADS FOR SB US 41A

SIGNAL HEAD	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/REFLECTIVE BACKPLATE		1		2		
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	1	2	2	2	0

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: 2-9004.50
County: Henderson
Description: US 41A @ Washington Street
(all heads to have reflective backplates)

Cabinets Master code

Signals		
10	T-02-0009	Siemens 3 Section Signal
10	T-02-0032	Siemen 3 section backplate
2	T-02-0300	LED Module 12" red arrow
4	T-02-0310	LED Module 12" yellow arrow
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 _____ Contact number for Supervisor _____
Project Engineer _____ Contact number for Project Engineer _____
Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project
Signature of Project Engineer or Designee _____

<u>CABLE</u>	<u>ORIGIN</u>	<u>ENDING</u>	<u>CONNECTING</u>
1-#14/5C	CONTROLLER	SH 1	SH 1
1-#14/5C	CONTROLLER	SH 5	SH 5

A detailed street map of a section of St. Louis, Missouri, showing the intersection of US Highway 41A and 5th Street. The map includes a grid of streets with labels such as North Elm St, North Adams St, North Main St, and North Water St. A red box highlights the intersection of US 41A and 5th Street, with a red arrow pointing to it. A north arrow is located in the top right corner.

A map of the state of Kentucky, divided into its constituent counties. The county of Hancock, located in the western part of the state, is shaded in a dark gray color to distinguish it from the other counties.

COUNTY OF	ITEM NO.
HENDERSON	2-9004.60

US 41A @ 5TH STREET

GENERAL SUMMARY

BID ITEM CODE	BID ITEM DESCRIPTION	UNIT	QTY
2650	MAINTAIN & CONTROL TRAFFIC (US 41A @ 5TH STREET)	LS	1
2726	STAKING (US 41A @ 5TH STREET)	LS	1
4844	CABLE-NO. 14/5C	LF	220
4950	REMOVE SIGNAL EQUIPMENT (US 41A @ 5TH STREET)	EACH	1
20188NS835	INSTALL LED SIGNAL - 3 SECTION	EACH	10
2569	DEMOBILIZATION	LS	1

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

US 41A @ 5TH STREET			COUNTY OF	ITEM NO.
REPLACE EXISTING SIGNAL HEADS			HENDERSON	2-9004.60
STATION*	OFFSET*	DESCRIPTION	<div>• STATION AND OFFSET ARE APPROXIMATE AND ARE FOR INFORMATION ONLY. ALIGN SIGNAL HEADS WITH EXISTING SPAN WIRES AND DRIVING LANES.</div> <div>NOTE: THESE NUMBERS ARE FOR ESTIMATE PURPOSES ONLY. FINAL LOCATIONS AND QUANTITIES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.</div> <div>ALL QUANTITIES CARRIED OVER TO GENERAL SUMMARY</div>	
12+52	31' RT	3 SECTION FYA W/REFLECTIVE BACKPLATE		
12+33	31' RT	3 SECTION W/REFLECTIVE BACKPLATE		
12+44	31' RT	3 SECTION W/REFLECTIVE BACKPLATE		
12+56	34' LT	3 SECTION FYA W/REFLECTIVE BACKPLATE		
12+64	34' LT	3 SECTION W/REFLECTIVE BACKPLATE		
12+73	34' LT	3 SECTION W/REFLECTIVE BACKPLATE		
12+97	18' RT	3 SECTION W/REFLECTIVE BACKPLATE		
12+99	8' RT	3 SECTION W/REFLECTIVE BACKPLATE		
12+17	16' LT	3 SECTION W/REFLECTIVE BACKPLATE		
12+18	5' LT	3 SECTION W/REFLECTIVE BACKPLATE		

SIGNAL HEAD REPLACEMENTS

SIGNAL HEADS FOR EB 5TH

SIGNAL HEAD	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/REFLECTIVE BACKPLATE		1		2		
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	1	2	2	2	0

SIGNAL HEADS FOR WB 5TH

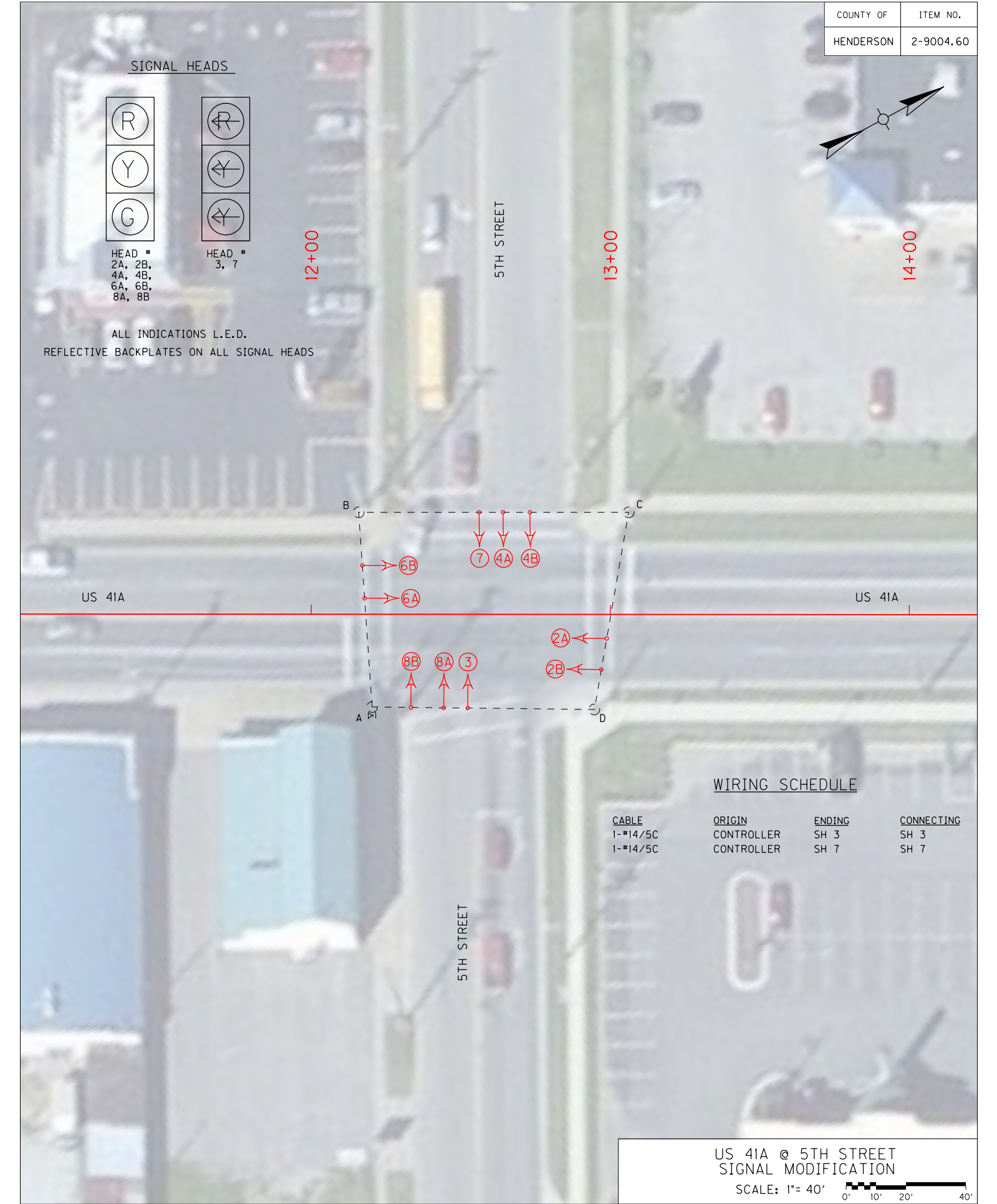
SIGNAL HEAD	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/REFLECTIVE BACKPLATE		1		2		
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	1	2	2	2	0

SIGNAL HEADS FOR NB US 41A

SIGNAL HEAD	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	0	2	0	2	0

SIGNAL HEADS FOR SB US 41A

SIGNAL HEAD	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	0	2	0	2	0



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: 2-9004.60
County: Henderson
Description: US 41A @ 5th Street
(all heads to have reflective backplates)

Cabinets Master code

Signals		
10	T-02-0009	Siemens 3 Section Signal
10	T-02-0032	Siemen 3 section backplate
2	T-02-0300	LED Module 12" red arrow
4	T-02-0310	LED Module 12" yellow arrow
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

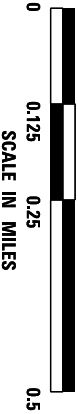
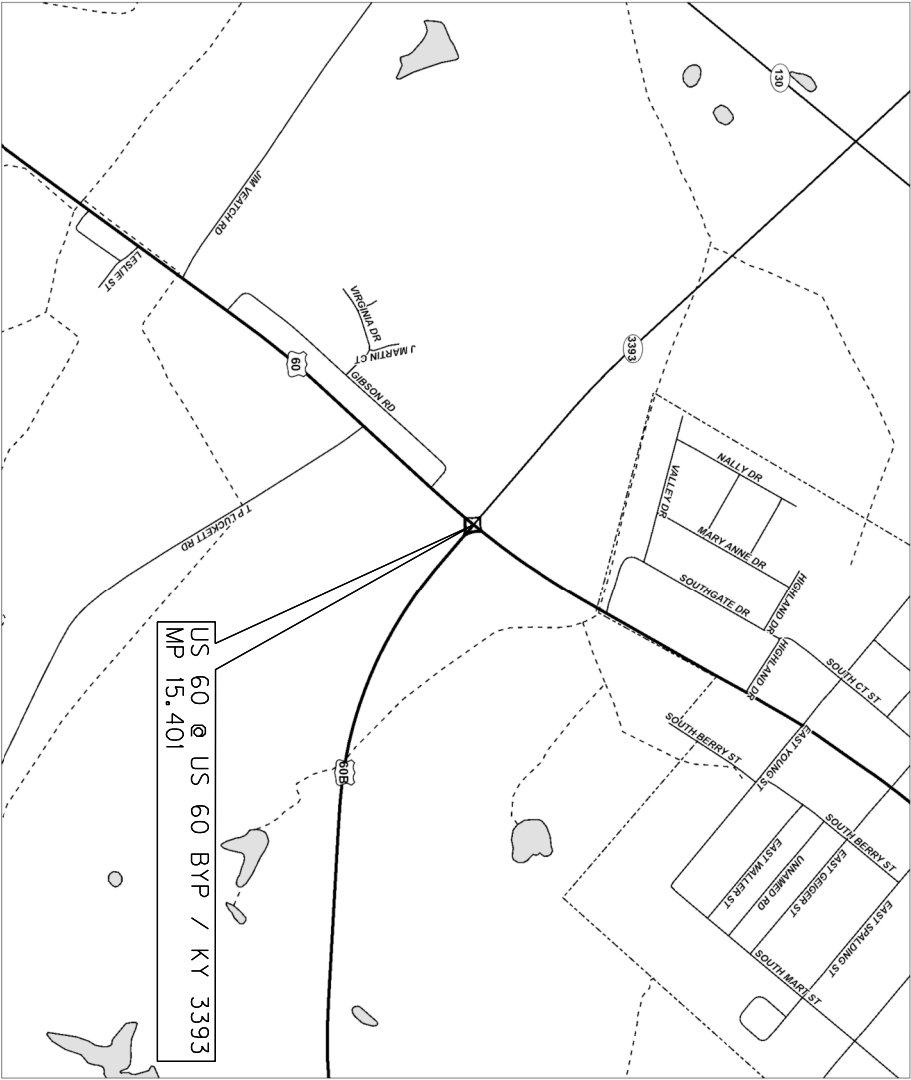
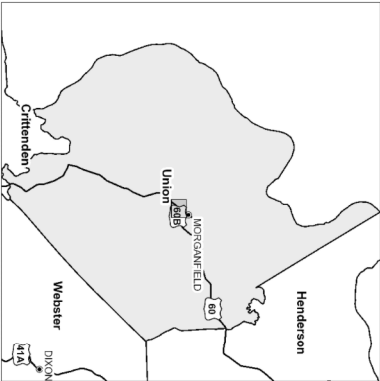
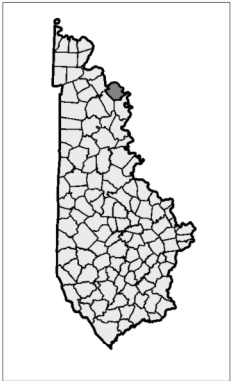
Electrical Contractor Name _____
Electrical Contractor Supervisor _____ Contact number for Supervisor _____
Project Engineer _____ Contact number for Project Engineer _____
Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project
Signature of Project Engineer or Designee _____

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

UNION COUNTY

US HIGHWAY 60
2-9008.10

COUNTY OF	ITEM NO.
UNION	2-9008.10



VICINITY MAP

COUNTY OF	ITEM NO.
UNION	2-9008.10

US 60 @ US 60 BYPASS / KY 3393

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	QTY
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC	LS	1
2726	STAKING	LS	1
4844	CABLE-NO. 14/5C	LF	2750
20188NS835	INSTALL LED SIGNAL - 3 SECTION	EACH	12
21659NN	RELOCATE SIGNAL HEAD	EACH	8
20390NS835	INSTALL COORDINATING UNIT	EACH	1
24908EC	INSTALL SIGNAL CONTROLLER - TY ATC	EACH	1

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

COUNTY OF	ITEM NO.
UNION	2-9008.10

RELOCATE EXISTING SIGNAL HEADS

SIGNAL HEADS FOR EB US 60

DESCRIPTION	EA	LOCATION
EX. 3 SECTION W/ REFLECTIVE BACKPLATE	2	RELOCATE BOTH EX. SIGNAL HEADS TO THROUGH LANE

SIGNAL HEADS FOR WB KY US 60

DESCRIPTION	EA	
EX. 3 SECTION W/ REFLECTIVE BACKPLATE	2	RELOCATE BOTH EX. SIGNAL HEADS TO THROUGH LANE

SIGNAL HEADS FOR EB US 60 B

DESCRIPTION	EA	
EX. 3 SECTION W/ REFLECTIVE BACKPLATE	2	RELOCATE BOTH EX. SIGNAL HEADS TO THROUGH LANE

SIGNAL HEADS FOR NB KY 3393

DESCRIPTION	EA	
EX. 3 SECTION W/ REFLECTIVE BACKPLATE	2	RELOCATE BOTH EX. SIGNAL HEADS TO THROUGH LANE

ALIGN SIGNAL HEADS WITH EXISTING SPAN WIRES AND DRIVING LANES AS DIRECTED BY THE ENGINEER.

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

ALL QUANTITIES CARRIED OVER TO THE GENERAL SUMMARY.

NEW SIGNAL HEADS

SIGNAL HEADS FOR EB US 60

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/ REFLECTIVE BACKPLATE		1		2		
TOTALS	0	1	0	2	0	0

SIGNAL HEADS FOR WB KY US 60

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/ REFLECTIVE BACKPLATE		1		2		
TOTALS	0	1	0	2	0	0

SIGNAL HEADS FOR EB US 60 B

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/ REFLECTIVE BACKPLATE		1		2		
TOTALS	0	1	0	2	0	0

SIGNAL HEADS FOR NB KY 3393

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/ REFLECTIVE BACKPLATE		1		2		
TOTALS	0	1	0	2	0	0

SIGNAL HEADS FOR POLE A

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	0	2	0	2	0

SIGNAL HEADS FOR POLE B

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	0	2	0	2	0

SIGNAL HEADS FOR POLE C

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	0	2	0	2	0

SIGNAL HEADS FOR POLE D

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	0	2	0	2	0

US 60 @ US 60 BYP / KY 3393
SIGNAL HEAD SUMMARY



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

Item Number: 2-9008.10
County: UNION
Description: US 60 @ US 60B & KY 3393

Cabinets	Master code	Description of Item
1	T-01-0105	ATC Controller
1	T-01-0106	1C w/Maxtime (this should go with item ATC controller)
Signals		
12	T-02-0009	Siemens 3 Section Signal
12	T-02-0015	Siemen 3 Section backplate w/tape
8	T-02-0300	LED Module 12" red arrow
16	T-02-0310	LED Module 12" yellow 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		
1	T-02-0504	Router (this includes power supply/antenna/cabling)

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

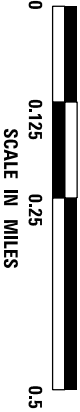
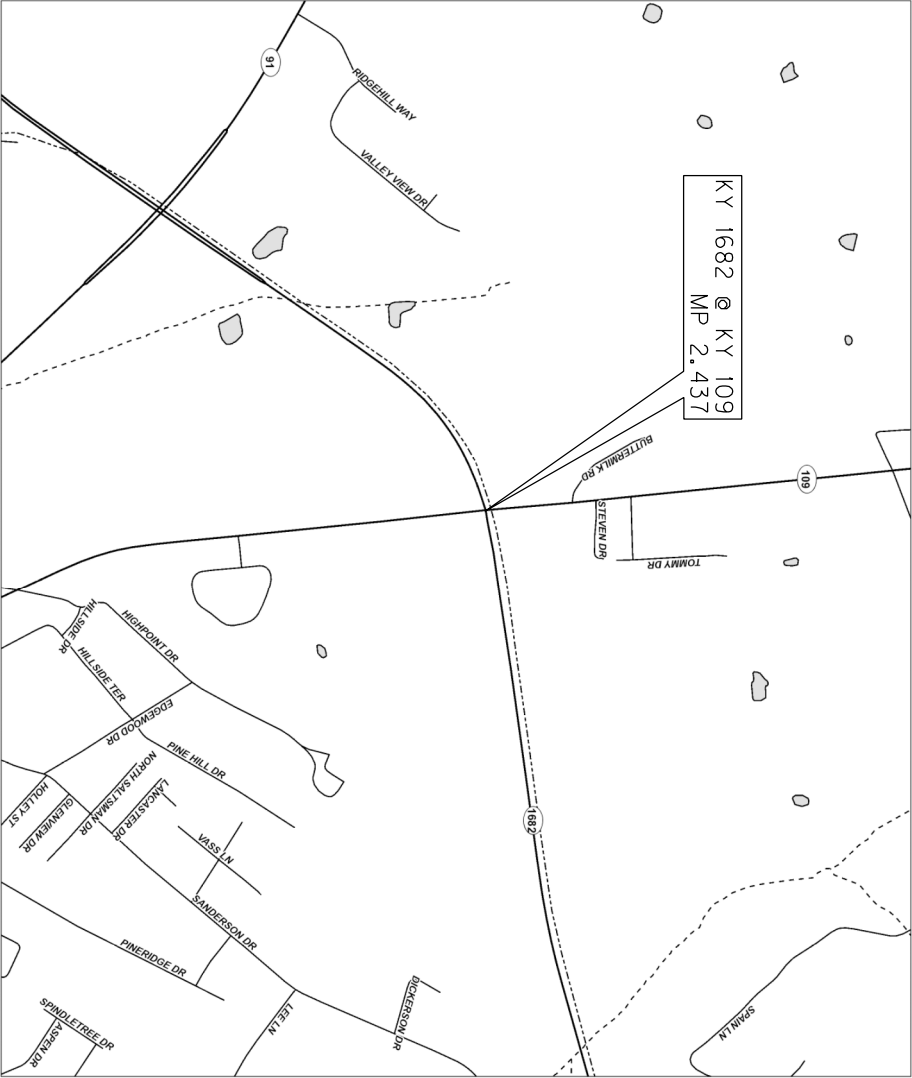
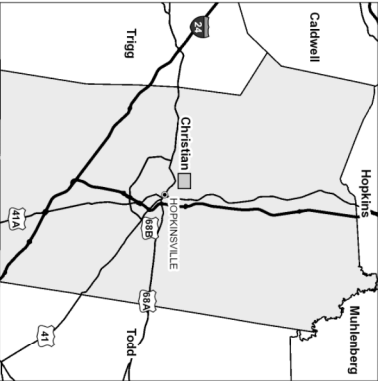
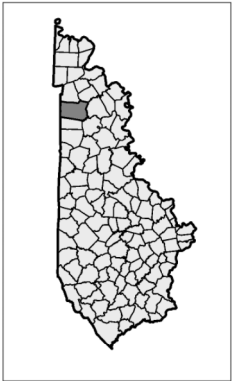
Contact number for Supervisor
Contact number for Project Engineer

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS CHRISTIAN COUNTY

KY 1682
2-9008.30



COUNTY OF	ITEM NO.
CHRISTIAN	2-9008.30



VICINITY MAP

COUNTY OF	ITEM NO.
CHRISTIAN	2-9008.30

KY 1682 @ KY 109

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	QTY
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC	LS	1
2726	STAKING	LS	1
4844	CABLE-NO. 14/5C	LF	1400
4950	REMOVE SIGNAL EQUIPMENT	EACH	1
20188NS835	INSTALL LED SIGNAL - 3 SECTION	EACH	13

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

COUNTY OF	ITEM NO.
CHRISTIAN	2-9008.30

SIGNAL HEAD REPLACEMENTS

SIGNAL HEADS FOR NB KY 109

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/ REFLECTIVE BACKPLATE		1		2		
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	1	2	2	2	0

ALIGN SIGNAL HEADS WITH EXISTING SPAN WIRES AND DRIVING LANES AS DIRECTED BY THE ENGINEER.

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

ALL QUANTITIES CARRIED OVER TO THE GENERAL SUMMARY.

SIGNAL HEADS FOR EB KY 1682

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/ REFLECTIVE BACKPLATE		1		2		
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	1	2	2	2	0

SIGNAL HEADS FOR SB KY 109

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/ REFLECTIVE BACKPLATE		1		2		
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	1	2	2	2	0

SIGNAL HEADS FOR WB KY 1682

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION FYA W/ REFLECTIVE BACKPLATE		1		2		
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
TOTALS	2	1	2	2	2	0

SIGNAL HEADS FOR POLE D

DESCRIPTION	RED BALL	RED ARROW	YELLOW BALL	YELLOW ARROW	GREEN BALL	GREEN ARROW
3 SECTION W/ REFLECTIVE BACKPLATE	1		1		1	
TOTALS	1	0	1	0	1	0



Jeff Wolfe - Director
Phone (502) 564-3020
FAX (502) 564-7759

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

Item Number: 2-9008.00
County: CHRISTIAN
Description: KY 1682 @ KY 109

Cabinets	Master code	Description of Item
Signals		
13	T-02-0009	Siemens 3 Section Signal
13	T-02-0032	Siemen 3 section backplate
4	T-02-0300	LED Module 12" red arrow
8	T-02-0310	LED Module 12" yellow arrow
9	T-02-0330	LED Module 12" red ball
9	T-02-0340	LED Module 12" yellow ball
9	T-02-0350	LED Module 12" green ball
Special items		
Poles		

Electrical Contractor Name

Electrical Contractor Supervisor

Project Engineer

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

Signature of Project Engineer or Designee

Contact number for Supervisor

Contact number for Project Engineer

[illegible]

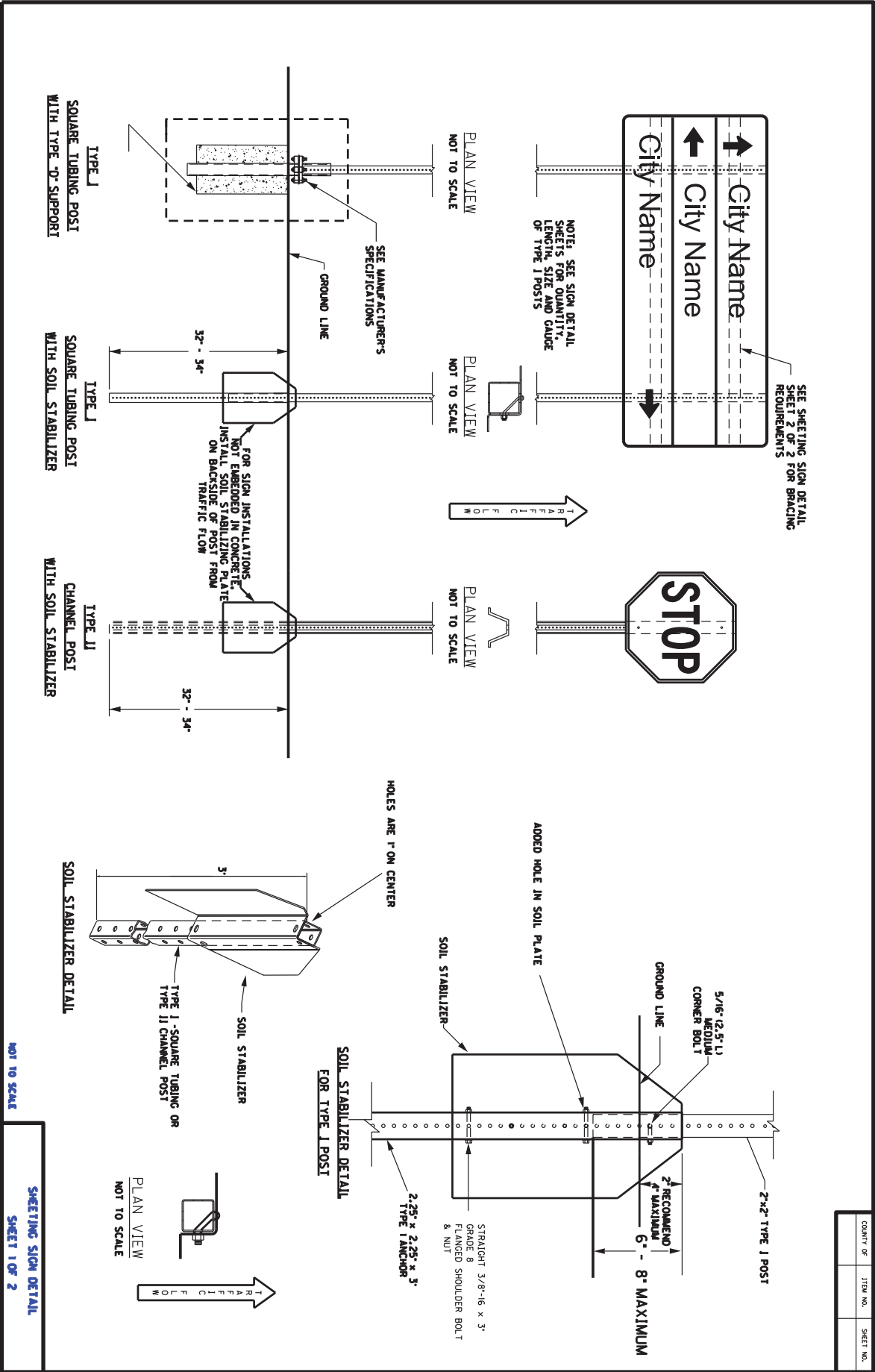
901 WEST MAIN STREET
LOUISVILLE, KY 40202
502-587-6624
270-307-7456

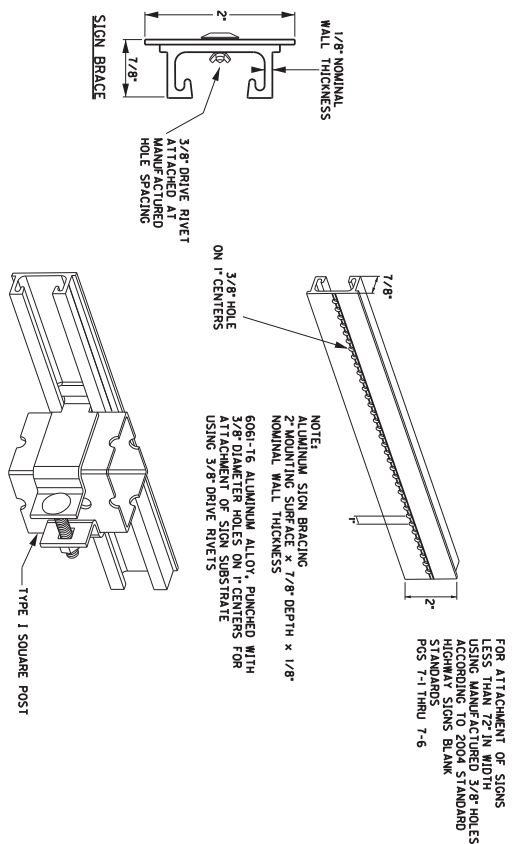
SHEETING SIGNS

① NOT TO EXCEED 8' IN URBAN AREAS AND 6' IN RURAL AREAS UNLESS SPECIFIED BY THE ENGINEER

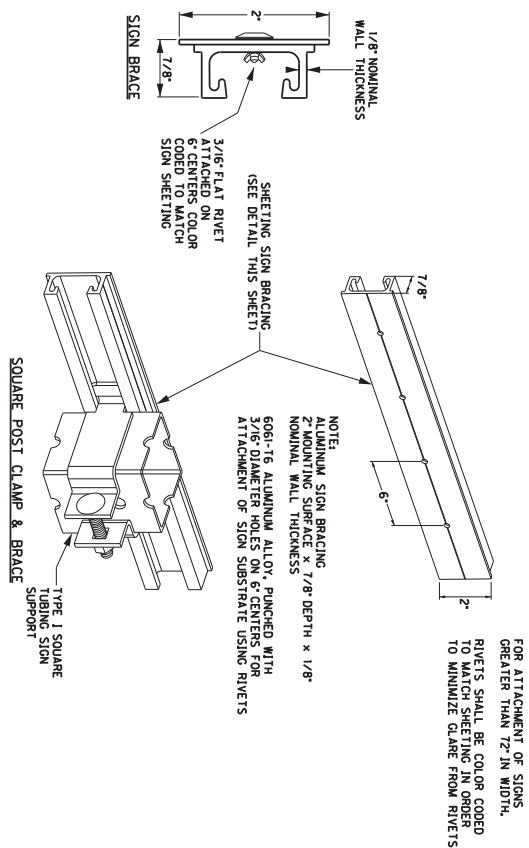
Diagram illustrating the signing position for a T-intersection. The diagram shows a road layout with a 'PAVEMENT' section, a 'SHOULDER' section, and a 'SIGNING POSITION' section. A 'TRAFFIC' arrow points towards the intersection. A 'FACE OF SIGN OR MILE MARKER' is shown on the right. A 'LANE 15' AWAY FROM TRAFFIC' is indicated. The angle between the pavement and shoulder is 30 degrees, and the angle between the shoulder and the signing position is 3 degrees.

SIGNING POSITIONING DETAIL SHEET

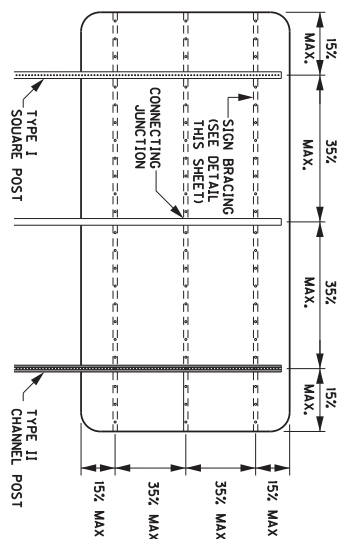




FOR ATTACHMENT OF SIGNS
LESS THAN 72" IN WIDTH
USING MANUFACTURED 3/8" HOLES
ACCORDING TO 2004 STANDARD
HIGHWAY SIGNS BLANK
STANDARDS
PGS 7-1 THRU 7-6



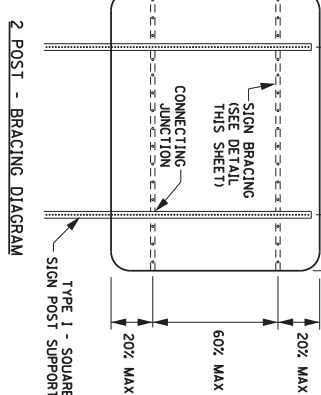
FOR ATTACHMENT OF SIGNS
GREATER THAN 72" IN WIDTH.
RIVETS SHALL BE COLOR CODED
TO MATCH SHEETING IN ORDER
TO MINIMIZE CLARE FROM RIVETS



3 POST - BRACING DIAGRAM

1. MAXIMUM AREA
PER CONNECTING
JUNCTION = 16 SQ. FT.

2. BRACING SHOULD NOT BE
SPliced WITHIN 6'-0" OF A BRACE
TO POST JUNCTION.



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

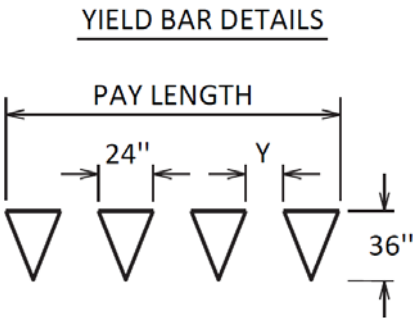
NOT TO SCALE

SHEETING SIGN DETAIL

SHEET 2 OF 2

COUNTY OF	ITEM NO.	SHEET NO.

YIELD BAR PAVEMENT MARKING DETAIL



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>
9'	4	4"
10'	4	8"
11'	5	3"
12'	5	6"

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

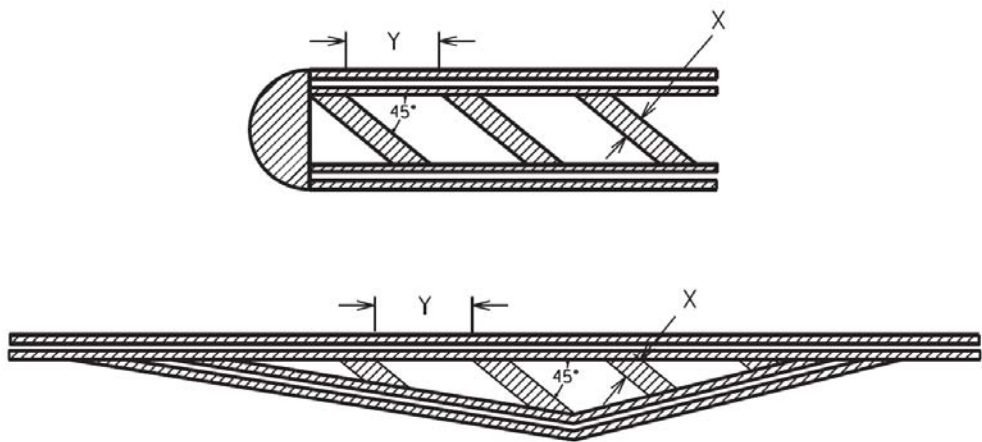
The Department will measure Yield Bars in Linear Feet. The measurement will include the void space between triangles. See Section 717.04 for additional measurement information.

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

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.

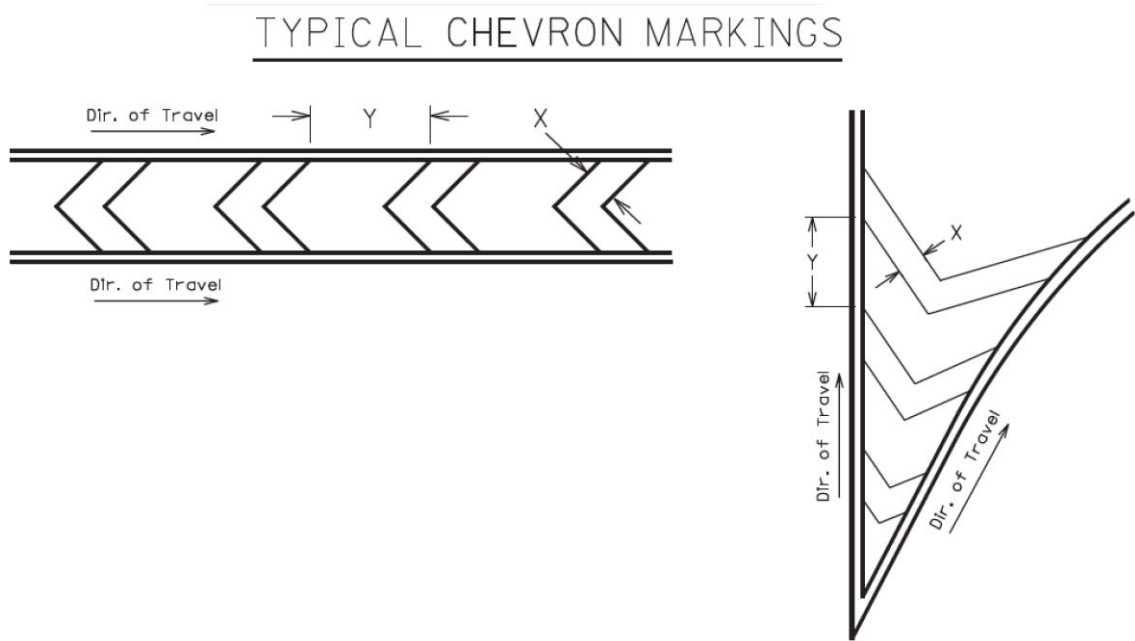
Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

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

CHEVRON PAVEMENT MARKINGS DETAIL



The chevron 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 chevron 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 chevron pavement markings as necessary so that a minimum of three (3) chevron 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 Chevron Pavement Markings in Square Feet. The Department will NOT measure overlaps or the void space between the chevrons. See Section 717.04 for additional measurement information.

When listed as a bid item, the Department will make payment for the completed and accepted quantities of Chevron Pavement Markings under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24679ED	Pave Mark Thermo Chevron	Square 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 2012* 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 2012 Standard Specifications for Road and Bridge Construction.

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).

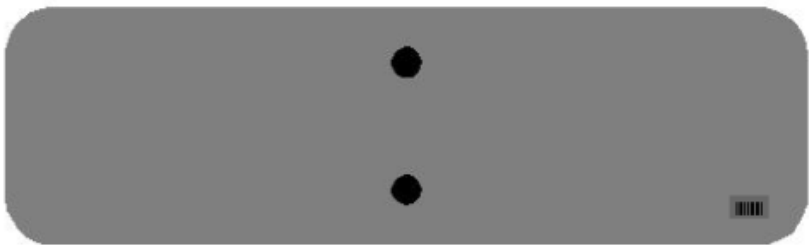
The installation of the permanent sign will be measured in accordance to Section 715.

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

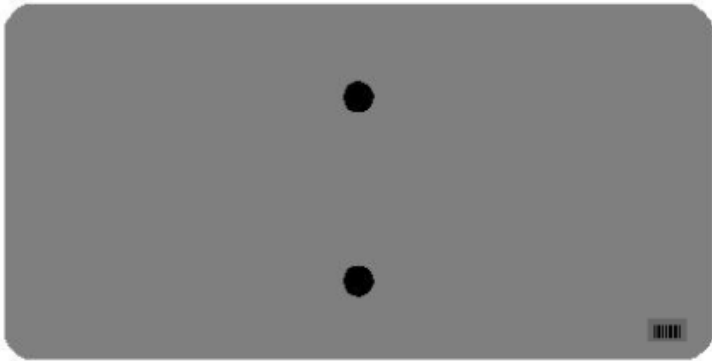
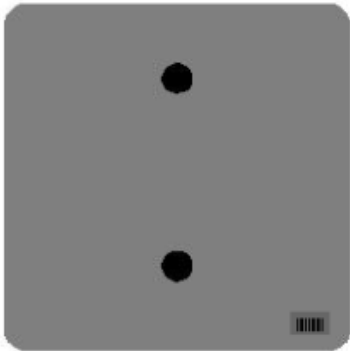
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24631EC	Barcode Sign Inventory	Each

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.

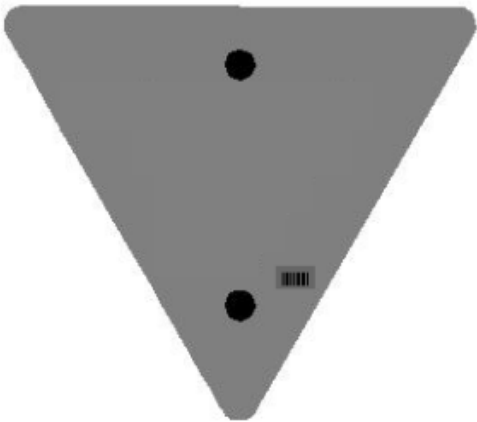
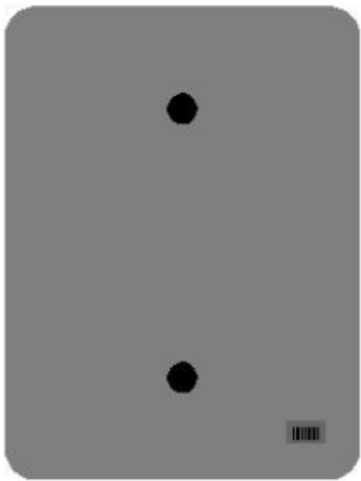
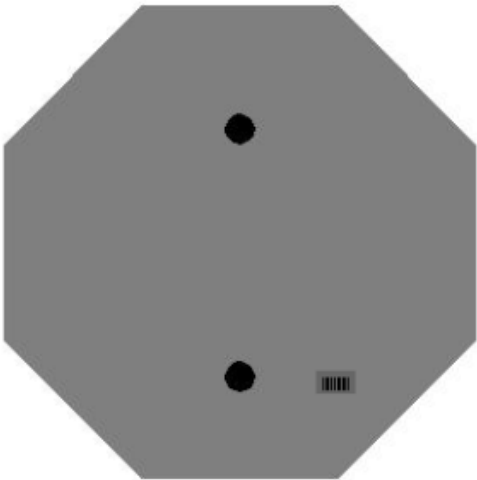
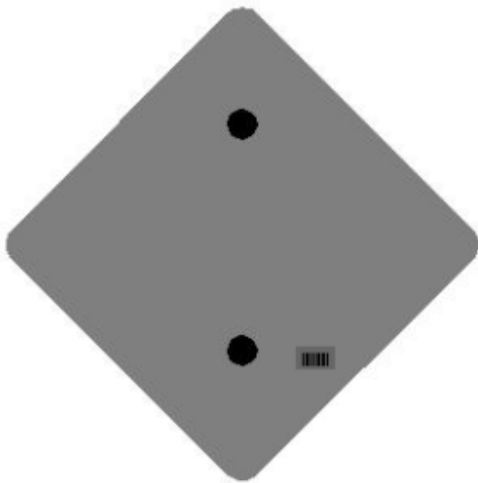
One Sign Post



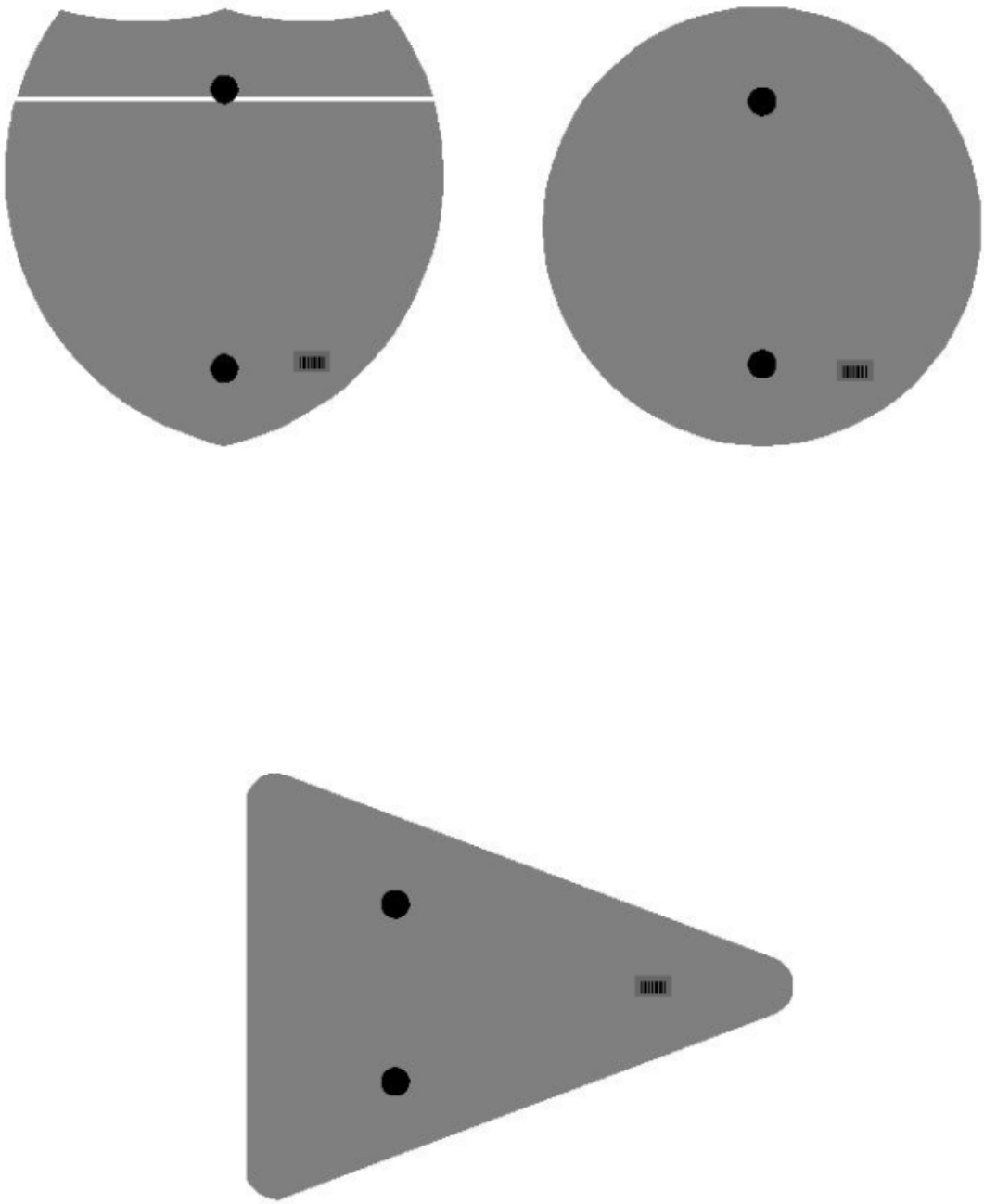
↑
2" Wide Post



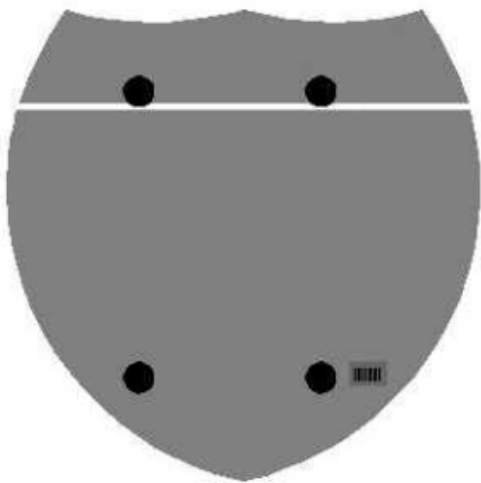
One Sign Post



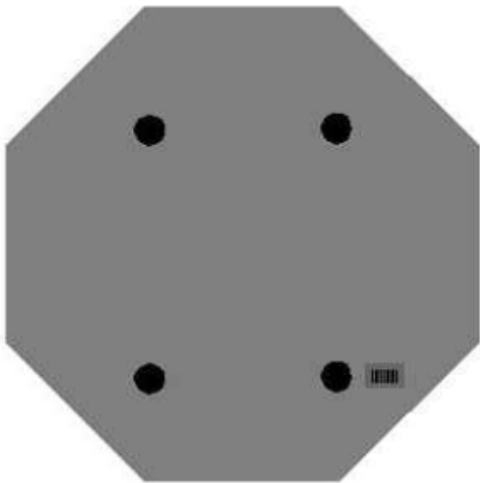
One Sign Post



Double Sign Post

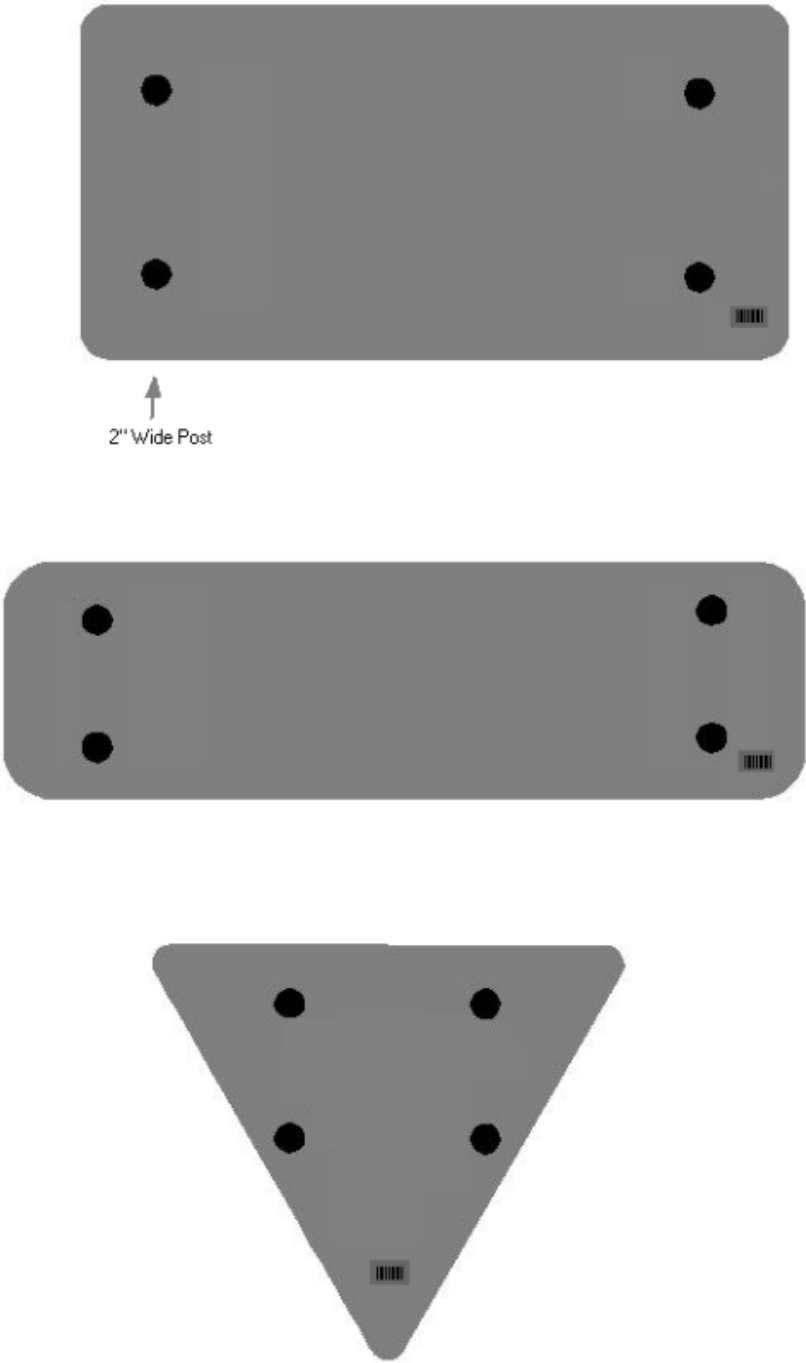


Interstate
Shield



48" Stop

2 Post Signs



2016 STANDARD DRAWINGS THAT APPLY

ROADWAY
~ DRAINAGE ~

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
COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPE	RDI-035-02
EROSION CONTROL BLANKET SLOPE INSTALLATION.....	RDI-040-01
EROSION CONTROL BLANKET CHANNEL INSTALLATION.....	RDI-041-01

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 HEADWALLS.....	RDP-010-09
SUBGRADE DRAINAGE CONCRETE PAVEMENT.....	RDX-050-05

MISCELLANEOUS DRAINAGE

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

~ GENERAL ~

MISCELLANEOUS STANDARDS PART 1.....	RGX-001-06
DETECTABLE WARNINGS	RGX-040-03
TYPE D BREAKAWAY SIGN SUPPORT.....	RGX-065-02

~ 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 MAILBOX TURNOUT.....	RPM-110-07
ISLAND CURB CONSTRUCTION DETAILS (RIGID & FLEXIBLE PAVEMENT).....	RPM-120-07
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK.....	RPM-150-08
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK.....	RPM-152-08
SIDEWALK RAMPS	RPM-170-09

TRAFFIC
~ TEMPORARY ~
TRAFFIC CONTROL

LANE CLOSURE TWO-LANE HIGHWAY.....	TTC-100-04
LANE CLOSURE MULTI-LANE HIGHWAY CASE I.....	TTC-115-03
SHOULDER CLOSURE.....	TTC-135-02

DEVICES

PAVEMENT CONDITION WARNING SIGNS TTD-125-02

STRIPING OPERATIONS

MOBILE OPERATION FOR PAINT STRIPING CASE II..... TTS-105-02
MOBILE OPERATION FOR PAINT STRIPING CASE IV..... TTS-115-02

COUNTY OF

ITEM NO.

SHEET NO.

~ NOTES ~

BID ITEMS AND UNIT TO BID
DELINEATOR FOR GUARDRAIL B/W
DELINEATOR FOR GUARDRAIL M/W
DELINEATOR FOR GUARDRAIL M/Y
EACH
EACH
EACH

1. 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.

2. DELINEATOR SHAPE AND DIMENSIONS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. TYPES OF DELINEATORS PERMITTED SHALL BE FROM THE LIST OF APPROVED MATERIALS.

3. GUARDRAIL DELINEATORS SHALL BE REQUIRED ON ALL GUARDRAIL.

4. DELINEATORS SHALL NOT BE INSTALLED WITHIN THE PAY LIMITS OF THE END TREATMENT.

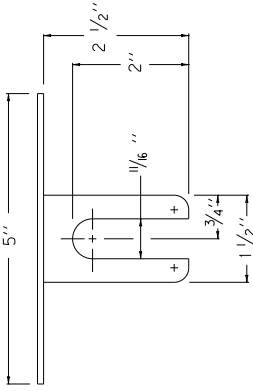
5. DELINEATORS SHALL BE MANUFACTURED FROM 12 GA. GALVANIZED STEEL.

6. DIMENSIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MANUFACTURER'S TOLERANCES.

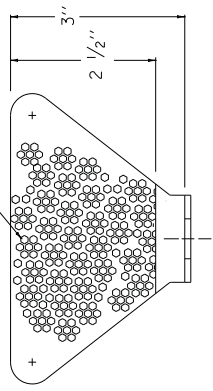
7. WHEN CONCRETE BARRIERS EXTEND ACROSS BRIDGE STRUCTURES IN LIEU OF STEEL BEAM GUARDRAIL, DELINEATORS SHALL BE INSTALLED AT SAME VERTICAL ALIGNMENT AS ON THE GUARDRAIL, AND DELINEATORS SHALL COMPLY WITH CURRENT STANDARD DRAWING RBM-020.

8. DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

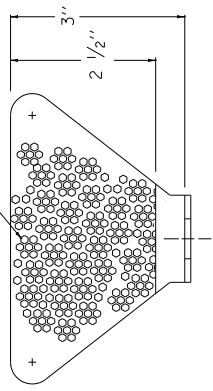
PLAN VIEW



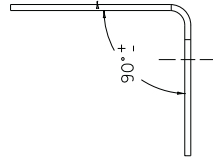
TYPE IX SHEETING,
YELLOW OR WHITE



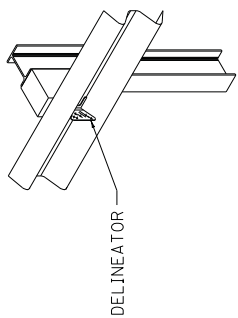
FRONT VIEW



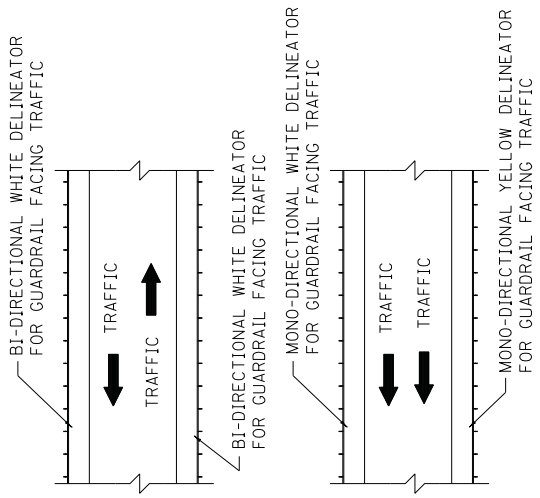
SIDE VIEW



ISOMETRIC VIEW



PLACEMENT OF DELINEATORS
FOR GUARDRAIL

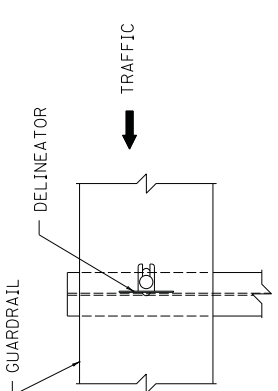


APPROXIMATE DELINEATOR SPACING

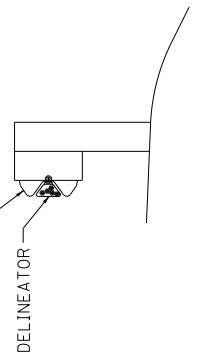
TANGENT	CURVE
100'	50'

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

FRONT VIEW



SIDE VIEW




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

KENTUCKY

DEPARTMENT OF HIGHWAYS

DELINEATORS
FOR GUARDRAIL

SUBMITTED:  DIRECTOR
DATE: 11-17-17
032

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.

* * * * *

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: KY190040 01/04/2019 KY40

Superseded General Decision Number: KY20180102

State: Kentucky

Construction Type: Highway

Counties: Allen, Ballard, Butler, Caldwell, Calloway, Carlisle, Christian, Crittenden, Daviess, Edmonson, Fulton, Graves, Hancock, Henderson, Hickman, Hopkins, Livingston, Logan, Lyon, Marshall, McCracken, McLean, Muhlenberg, Ohio, Simpson, Todd, Trigg, Union, Warren and Webster 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.

Modification Number	Publication Date
0	01/04/2019

BRIN0004-002 06/01/2017

BALLARD, BUTLER, CALDWELL, CARLISLE, CRITTENDEN, DAVIESS, EDMONSON, FULTON, GRAVES, HANCOCK, HENDERSON, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCracken, MCLEAN, MUHLENBERG, OHIO, UNION, and WEBSTER COUNTIES

	Rates	Fringes
BRICKLAYER		
Ballard, Caldwell, Carlisle, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, Marshall, and McCracken Counties.....	\$ 30.50	15.16
Butler, Edmonson, Hopkins, Muhlenberg, and Ohio Counties.....	\$ 26.80	12.38
Daviess, Hancock, Henderson, McLean, Union, and Webster Counties.....	\$ 30.00	15.16

BRTN0004-005 06/01/2017

ALLEN, CALLOWAY, CHRISTIAN, LOGAN, SIMPSON, TODD, TRIGG, and
WARREN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 26.80	12.38

CARP0357-002 04/01/2016

	Rates	Fringes
CARPENTER.....	\$ 27.70	17.03
Diver.....	\$ 41.93	17.03
PILEDRIVERMAN.....	\$ 27.95	17.03

ELEC0369-006 05/30/2018

BUTLER, EDMONSON, LOGAN, TODD & WARREN COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 31.66	17.01

ELEC0429-001 06/01/2018

ALLEN & SIMPSON COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 26.77	12.94

ELEC0816-002 05/28/2018

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,
FULTON (Except a 5 mile radius of City Hall in Fulton), GRAVES,
HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES:

	Rates	Fringes
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ELECTRICIAN.....\$ 32.87 25.5%+7.05

Cable spicers receive \$.25 per hour additional.

ELEC1701-003 06/01/2018

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO,
UNION & WEBSTER COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 31.04	15.74

Cable spicers receive \$.25 per hour additional.

ELEC1925-002 01/01/2018

FULTON COUNTY (Up to a 5 mile radius of City Hall in Fulton):

	Rates	Fringes
CABLE SPLICER.....	\$ 25.80	12.16
ELECTRICIAN.....	\$ 25.30	12.99

ENGI0181-017 07/01/2017

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 31.95	15.15
GROUP 2.....	\$ 29.09	15.15
GROUP 3.....	\$ 29.54	15.15
GROUP 4.....	\$ 28.77	15.15

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - A-Frame Winch Truck; Auto Patrol; Backfiller;
Batcher Plant; Bituminous Paver; Bituminous Transfer
Machine; Boom Cat; Bulldozer; Mechanic; Cableway; Carry-All
Scoop; Carry Deck Crane; Central Compressor Plant; Cherry
Picker; Clamshell; Concrete Mixer (21 cu. ft. or Over);
Concrete Paver; Truck-Mounted Concrete Pump; Core Drill;
Crane; Crusher Plant; Derrick; Derrick Boat; Ditching &
Trenching Machine; Dragline; Dredge Operator; Dredge
Engineer; Elevating Grader & Loaders; Grade-All; Gurries;
Heavy Equipment Robotics Operator/Mechanic; High Lift;
Hoe-Type Machine; Hoist (Two or More Drums); Hoisting
Engine (Two or More Drums); Horizontal Directional Drill
Operator; Hydrocrane; Hyster; KeCal Loader; LeTourneau;
Locomotive; Mechanic; Mechanically Operated Laser Screed;
Mechanic Welder; Mucking Machine; Motor Scraper; Orangepeel
Bucket; Overhead Crane; Piledriver; Power Blade; Pumpcrete;
Push Dozer; Rock Spreader, attached to equipment; Rotary
Drill; Roller (Bituminous); Rough Terrain Crane; Scarifier;
Scoopmobile; Shovel; Side Boom; Subgrader; Tailboom;
Telescoping Type Forklift; Tow or Push Boat; Tower Crane
(French, German & other types); Tractor Shovel; Truck
Crane; Tunnel Mining Machines, including Moles, Shields or

similar types of Tunnel Mining Equipment

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.); Bituminous Mixer; Boom Type Tamping Machine; Bull Float; Concrete Mixer (Under 21 cu. ft.); Dredge Engineer; Electric Vibrator; Compactor/Self-Propelled Compactor; Elevator (One Drum or Buck Hoist); Elevator (When used to Hoist Building Material); Finish Machine; Firemen & Hoist (One Drum); Flexplane; Forklift (Regardless of Lift Height); Form Grader; Joint Sealing Machine; Outboard Motor Boat; Power Sweeper (Riding Type); Roller (Rock); Ross Carrier; Skid Mounted or Trailer Mounted Concrete Pump; Skid Steer Machine with all Attachments; Switchman or Brakeman; Throttle Valve Person; Tractair & Road Widening Trencher; Tractor (50 H.P. or Over); Truck Crane Oiler; Tugger; Welding Machine; Well Points;& Whirley Oiler

GROUP 3 -All Off Road Material Handling Equipment, including Articulating Dump Trucks; Greaser on Grease Facilities servicing Heavy Equipment

GROUP 4 - Bituminous Distributor; Burlap & Curing Machine; Cement Gun; Concrete Saw; Conveyor; Deckhand Oiler; Grout Pump; Hydraulic Post Driver; Hydro Seeder; Mud Jack; Oiler; Paving Joint Machine; Power Form Handling Equipment; Pump; Roller (Earth); Steerman; Tamping Machine; Tractor (Under 50 H.P.); & Vibrator

CRANES - with booms 150 ft. & Over (Including JIB), and where the length of the boom in combination with the length of the piling equals or exceeds 150 ft. - \$1.00 above Group 1 rate

EMPLOYEES ASSIGNED TO WORK BELOW GROUND LEVEL ARE TO BE PAID 10% ABOVE BASIC WAGE RATE. THIS DOES NOT APPLY TO OPEN CUT WORK.

IRON0070-005 06/01/2018

BUTLER COUNTY (Eastern eighth, including the Townships of Decker, Lee & Tilford);
EDMONSON COUNTY (Northern three-fourths, including the Townships of Asphalt, Bee Spring, Brownsville, Grassland, Huff, Kyrock, Lindseyville, Mammoth Cave, Ollie, Prosperity, Rhoda, Sunfish & Sweden)

	Rates	Fringes
IRONWORKER		
Structural; Ornamental;		
Reinforcing; Precast		
Concrete Erectors.....	\$ 28.79	22.50

IRON0103-004 08/01/2017

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, OHIO, UNION & WEBSTER COUNTIES
BUTLER COUNTY (Townships of Aberdeen, Bancock, Casey,

Dexterville, Dunbar, Elfie, Gilstrap, Huntsville, Logansport, Monford, Morgantown, Provo, Rochester, South Hill & Welchs Creek);
CALDWELL COUNTY (Northeastern third, including the Township of Creswell);
CHRISTIAN COUNTY (Northern third, including the Townships of Apex, Crofton, Kelly, Mannington & Wynns);
CRITTENDEN COUNTY (Northeastern half, including the Townships of Grove, Mattoon, Repton, Shady Grove & Tribune);
MUHLENBERG COUNTY (Townships of Bavier, Beech Creek Junction, Benton, Brennen, Browder, Central City, Cleaton, Depoy, Drakesboro, Eunis, Graham, Hillside, Luzerne, Lynn City, Martwick, McNary, Millport, Moorman, Nelson, Paradise, Powderly, South Carrollton, Tarina & Weir)

	Rates	Fringes
Ironworkers:.....	\$ 28.64	21.385

IRON0492-003 05/01/2018		

ALLEN, LOGAN, SIMPSON, TODD & WARREN COUNTIES
BUTLER COUNTY (Southern third, including the Townships of Boston, Berrys Lick, Dimple, Jetson, Quality, Sharer, Sugar Grove & Woodbury);
CHRISTIAN COUNTY (Eastern two-thirds, including the Townships of Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke & Thompsonville);
EDMONSON COUNTY (Southern fourth, including the Townships of Chalybeate & Rocky Hill);
MUHLENBERG COUNTY (Southern eighth, including the Townships of Dunnior, Penrod & Rosewood)

	Rates	Fringes
Ironworkers:.....	\$ 26.11	14.02

IRON0782-006 05/01/2018		

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCracken & TRIGG COUNTIES
CALDWELL COUNTY (Southwestern two-thirds, including the Townships of Cedar Bluff, Cider, Claxton, Cobb, Crowtown, Dulaney, Farmersville, Fredonia, McGowan, Otter Pond & Princeton);
CHRISTIAN COUNTY (Western third, Excluding the Townships of Apex, Crofton, Kelly, Mannington, Wynns, Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke & Thompsonville);
CRITTENDEN COUNTY (Southwestern half, including the Townships of Crayne, Dycusburg, Frances, Marion, Mexico, Midway, Sheridan & Told)

	Rates	Fringes
Ironworkers:		
Projects with a total		

contract cost of		
\$20,000,000.00 or above.....\$	28.79	24.17
All Other Work.....\$	27.20	22.75

LABO0189-005 07/01/2018

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN,
LIVINGSTON, LYON, MARSHALL & MCCracken COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....\$	23.07	14.21
GROUP 2.....\$	23.32	14.21
GROUP 3.....\$	23.37	14.21
GROUP 4.....\$	23.97	14.21

LABORER 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; Blaster; 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 Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

LABO0189-006 07/01/2018

ALLEN, BUTLER, CALDWELL, CHRISTIAN, DAVIESS, EDMONSON, HANCOCK,
HOPKINS, LOGAN, MCLEAN, MUHLENBERG, OHIO, SIMPSON, TODD, TRIGG
& WARREN COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.07	14.21
GROUP 2.....	\$ 23.32	14.21
GROUP 3.....	\$ 23.37	14.21
GROUP 4.....	\$ 23.97	14.21

LABORER 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; Blaster; 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 Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

LABO0561-001 07/01/2018

CRITTENDEN, HENDERSON, UNION & WEBSTER COUNTIES

	Rates	Fringes
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Laborers:

GROUP 1.....	\$ 22.71	15.00
GROUP 2.....	\$ 22.96	15.00
GROUP 3.....	\$ 23.01	15.00
GROUP 4.....	\$ 23.61	15.00

LABORER 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; Blaster; 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 Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

PAIN0032-002 09/01/2018

BALLARD COUNTY

Rates Fringes

Painters:

Bridges.....	\$ 33.56	16.13
All Other Work.....	\$ 31.86	16.13

Spray, Blast, Steam, High & Hazardous (Including Lead Abatement) and All Epoxy - \$1.00 Premium

PAIN0118-003 06/01/2014

EDMONSON COUNTY:

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 18.50	11.97
Spray, Sandblast, Power Tools, Waterblast & Steam Cleaning.....	\$ 19.50	11.97

PAIN0156-006 04/01/2015

DAVIESS, HANCOCK, HENDERSON, MCLEAN, OHIO, UNION & WEBSTER
COUNTIES

	Rates	Fringes
Painters:		
BRIDGES		
GROUP 1.....	\$ 27.60	12.85
GROUP 2.....	\$ 27.85	12.85
GROUP 3.....	\$ 28.60	12.85
GROUP 4.....	\$ 29.60	12.85
ALL OTHER WORK:		
GROUP 1.....	\$ 26.45	12.85
GROUP 2.....	\$ 26.70	12.85
GROUP 3.....	\$ 27.45	12.85
GROUP 4.....	\$ 28.45	12.85

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Plasterers

GROUP 3 - Spray; Sandblast; Power Tools; Waterblast;
Steamcleaning; Brush & Roller of Mastics, Creosotes, Kwinch
Koate & Coal Tar Epoxy

GROUP 4 - Spray of Mastics, Creosotes, Kwinch Koate & Coal
Tar Epoxy

PAIN0500-002 06/01/2018

CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON,
GRAVES, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCracken
& TRIGG COUNTIES:

	Rates	Fringes
Painters:		
Bridges.....	\$ 27.75	13.60
All Other Work.....	\$ 21.50	13.60

Waterblasting units with 3500 PSI and above - \$.50 premium
Spraypainting and all abrasive blasting - \$1.00 premium
Work 40 ft. and above ground level - \$1.00 premium

* PLUM0184-002 07/01/2018

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,
FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCracken
and TRIGG COUNTIES

	Rates	Fringes
Plumber; Steamfitter.....	\$ 35.06	18.18

PLUM0502-004 08/01/2018

ALLEN, BUTLER, EDMONSON, SIMPSON & WARREN

	Rates	Fringes
Plumber; Steamfitter.....	\$ 34.62	20.78

PLUM0633-002 07/01/2017

DAVIESS, HANCOCK, HENDERSON, HOPKINS, LOGAN, MCLEAN,
MUHLENBERG, OHIO, TODD, UNION & WEBSTER COUNTIES:

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 31.47	16.80

TEAM0089-003 04/01/2018

ALLEN, BUTLER, EDMONSON, LOGAN, SIMPSON & WARREN COUNTIES

	Rates	Fringes
Truck drivers:		
Zone 1:		
Group 1.....	\$ 20.81	20.91
Group 2.....	\$ 21.00	20.91
Group 3.....	\$ 21.08	20.91
Group 4.....	\$ 21.10	20.91

GROUP 1 - Greaser; Tire Changer

GROUP 2 - Truck Mechanic; Single Axle Dump; Flat Bed; All
Terrain Vehicles when used to haul materials; Semi Trailer
or Pole Trailer when used to pull building materials and
equipment; Tandem Axle Dump; Driver of Distributors

GROUP 3 - Mixer All Types

GROUP 4 - Winch and A-Frame when used in transporting
materials; Ross Carrier; Fork Lift when used to transport
building materials; Driver on Pavement Breaker; Euclid and

Other Heavy Earth Moving Equipment; Low Boy; Articulator
Cat; Five Axle Vehicle

TEAM0215-003 04/01/2018

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO
& WEBSTER COUNTIES

	Rates	Fringes
TRUCK DRIVER		
Group 1.....	\$ 22.45	20.91
Group 2.....	\$ 22.68	20.91
Group 3.....	\$ 22.75	20.91
Group 4.....	\$ 22.76	20.91

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when
used to haul materials; Semi Trailer or Pole Trailer when
used to pull building materials and equipment; Tandem Axle
Dump; Driver of Distributors; Mixer All Types

GROUP 4: Euclid and other heavy earth moving equipment; Low
Boy; Articulator Cat; 5 Axle Vehicle; Winch and A- Frame
when used in transporting materials; Ross Carrier; Fork
Lift when used to transport building materials; Driver on
Pavement Breaker

TEAM0236-001 04/01/2018

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,
FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL,
MCCRACKEN, TODD & TRIGG COUNTIES

	Rates	Fringes
TRUCK DRIVER		
Group 1.....	\$ 20.81	20.91
Group 2.....	\$ 21.00	20.91
Group 3.....	\$ 21.00	20.91
Group 4.....	\$ 20.10	20.91
Group 5.....	\$ 21.08	20.91

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when
used to haul materials; Semi Trailer or Pole Trailer when
used to pull building materials and equipment; Tandem Axle
Dump; Drivers of Distributors

GROUP 4: Euclid and other heavy earth moving equipment; Low

Boy; Articulator Cat; Five Axle Vehicle; Winch and A-Frame
when used in transporting materials; Ross Carrier

GROUP 5: Mixer All Types

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.

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)).

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.

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 after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. 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:

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
18.2%	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 Christian 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:

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
4.7%	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 Daviess 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:

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
4.8%	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.

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**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 Henderson 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:

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
3.5%	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.

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**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 McLean 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:

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
3.5%	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 Union County.

PART IV

INSURANCE

INSURANCE

The Contractor shall procure and maintain the following insurance in addition to the insurance required by law:

- 1) Commercial General Liability-Occurrence form – not less than \$2,000,000 General aggregate, \$2,000,000 Products & Completed Aggregate, \$1,000,000 Personal & Advertising, \$1,000,000 each occurrence.
- 2) Automobile Liability- \$1,000,000 per accident
- 3) Employers Liability:
 - a) \$100,000 Each Accident Bodily Injury
 - b) \$500,000 Policy limit Bodily Injury by Disease
 - c) \$100,000 Each Employee Bodily Injury by Disease
- 4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
 - a) "policy contains no deductible clauses."
 - b) "policy contains _____ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
- 5) KENTUCKY WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

The cost of insurance is incidental to all contract items. All subcontractors must meet the same minimum insurance requirements.

PART V

BID ITEMS

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	588.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	11.00	TON		\$	
0030	00103		ASPHALT SEAL COAT	1.30	TON		\$	
0040	00216		CL3 ASPH BASE 1.00D PG76-22	895.00	TON		\$	
0050	00330		CL3 ASPH SURF 0.50A PG64-22	363.00	TON		\$	
0060	00332		CL3 ASPH SURF 0.50A PG76-22	386.00	TON		\$	
0070	00356		ASPHALT MATERIAL FOR TACK	2.60	TON		\$	
0080	02676		MOBILIZATION FOR MILL & TEXT (KY 2831 AT KY 54/KY 81)	1.00	LS		\$	
0090	02677		ASPHALT PAVE MILLING & TEXTURING	363.00	TON		\$	
0100	22861EN		HIGH STRENGTH GEOTEXTILE FABRIC TY V	1,342.00	SQYD		\$	
0110	24785EC		FIBER REINFORCEMENT FOR HMA	943.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0120	00462		CULVERT PIPE-18 IN	26.00	LF		\$	
0130	01011		NON-PERFORATED PIPE-6 IN	4.00	LF		\$	
0140	01025		PERF PIPE HEADWALL TY 2-6 IN	1.00	EACH		\$	
0150	01310		REMOVE PIPE	4.00	LF		\$	
0160	01811		STANDARD CURB AND GUTTER MOD	585.00	LF		\$	
0170	01875		STANDARD HEADER CURB	37.00	LF		\$	
0180	01890		ISLAND HEADER CURB TYPE 1	10.00	LF		\$	
0190	01915		STANDARD BARRIER MEDIAN TYPE 1	118.00	SQYD		\$	
0200	01919		STANDARD BARRIER MEDIAN TYPE 3	76.00	SQYD		\$	
0210	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	50.00	EACH		\$	
0220	02099		CEM CONC ENT PAVEMENT-6 IN	45.00	SQYD		\$	
0230	02200		ROADWAY EXCAVATION	1,105.00	CUYD		\$	
0240	02460		REMOVE TREES OR STUMPS	8.00	EACH		\$	
0250	02483		CHANNEL LINING CLASS II	14.00	TON		\$	
0260	02625		REMOVE HEADWALL	2.00	EACH		\$	
0270	02650		MAINTAIN & CONTROL TRAFFIC (KY 1682 AT KY 109)	1.00	LS		\$	
0280	02650		MAINTAIN & CONTROL TRAFFIC (KY 2831 AT KY 54/KY 81)	1.00	LS		\$	
0290	02650		MAINTAIN & CONTROL TRAFFIC (US 41A @ 5TH STREET)	1.00	LS		\$	
0300	02650		MAINTAIN & CONTROL TRAFFIC (US 41A @ RICHARDSON AVENUE)	1.00	LS		\$	
0310	02650		MAINTAIN & CONTROL TRAFFIC (US 41A @ WASHINGTON STREET)	1.00	LS		\$	
0320	02650		MAINTAIN & CONTROL TRAFFIC (US 431 & KY 85)	1.00	LS		\$	
0330	02650		MAINTAIN & CONTROL TRAFFIC (US 431 AT SALEM/GOETZ DRIVE)	1.00	LS		\$	
0340	02650		MAINTAIN & CONTROL TRAFFIC (US 60 AT US 60 BYPASS/KY 3393)	1.00	LS		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0350	02676		MOBILIZATION FOR MILL & TEXT (US 431 AT SALEM/GOETZ DRIVE)	1.00	LS		\$	
0360	02677		ASPHALT PAVE MILLING & TEXTURING	247.00	TON		\$	
0370	02720		SIDEWALK-4 IN CONCRETE	73.00	SQYD		\$	
0380	02721		REMOVE CONCRETE SIDEWALK	130.00	SQYD		\$	
0390	02726		STAKING (KY 1682 AT KY 109)	1.00	LS		\$	
0400	02726		STAKING (KY 2831 AT KY 54/KY 81)	1.00	LS		\$	
0410	02726		STAKING (US 41A @ 5TH STREET)	1.00	LS		\$	
0420	02726		STAKING (US 41A @ RICHARDSON AVENUE)	1.00	LS		\$	
0430	02726		STAKING (US 41A @ WASHINGTON STREET)	1.00	LS		\$	
0440	02726		STAKING (US 431 & KY 85)	1.00	LS		\$	
0450	02726		STAKING (US 431 AT SALEM/GOETZ DRIVE)	1.00	LS		\$	
0460	02726		STAKING (US 60 AT US 60 BYPASS/KY 3393)	1.00	LS		\$	
0470	06406		SBM ALUM SHEET SIGNS .080 IN	38.60	SQFT		\$	
0480	06407		SBM ALUM SHEET SIGNS .125 IN	22.30	SQFT		\$	
0490	06410		STEEL POST TYPE 1	304.00	LF		\$	
0500	06514		PAVE STRIPING-PERM PAINT-4 IN	8,931.00	LF		\$	
0510	06565		PAVE MARKING-THERMO X-WALK-6 IN	450.00	LF		\$	
0520	06568		PAVE MARKING-THERMO STOP BAR-24IN	290.00	LF		\$	
0530	06569		PAVE MARKING-THERMO CROSS-HATCH	4,955.00	SQFT		\$	
0540	06574		PAVE MARKING-THERMO CURV ARROW	30.00	EACH		\$	
0550	06598		PAVEMENT MARKING REMOVAL	120.00	SQFT		\$	
0560	20430ED		SAW CUT	1,768.00	LF		\$	
0570	20597EC		DITCH EXCAVATION	180.00	CUYD		\$	
0580	21373ND		REMOVE SIGN	5.00	EACH		\$	
0590	21415ND		EROSION CONTROL (US 431 AT SALEM/GOETZ DRIVE)	1.00	LS		\$	
0600	21596ND		GMSS TYPE D SURFACE MOUNT	4.00	EACH		\$	
0610	21813NN		REMOVE AND RELOCATE SHEET SIGNS	18.00	EACH		\$	
0620	22045NN		FLUME INLET TY 2-MOD	2.00	EACH		\$	
0630	22520EN		PAVE MARKING-THERMO YIELD BAR-36 IN	35.00	LF		\$	
0640	22664EN		WATER BLASTING EXISTING STRIPE	54.00	LF		\$	
0650	23839EC		REMOVE CONCRETE MEDIAN	53.00	SQYD		\$	
0660	24575ES610		HEADWALL (SLOPED & MITERED CONCRETE - FOR 18 INCH PIPE)	2.00	EACH		\$	
0670	24631EC		BARCODE SIGN INVENTORY	10.00	EACH		\$	
0680	24679ED		PAVE MARK THERMO CHEVRON	387.00	SQFT		\$	
0690	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN (6" WIDTH)	28.00	LF		\$	

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0700	04700		POLE 30 FT MTG HT	1.00	EACH		\$	
0710	04721		BRACKET 6 FT	1.00	EACH		\$	
0720	04724		BRACKET 12 FT	4.00	EACH		\$	
0730	04780		FUSED CONNECTOR KIT	7.00	EACH		\$	
0740	04792		CONDUIT-1 IN	41.00	LF		\$	
0750	04795		CONDUIT-2 IN	450.00	LF		\$	
0760	04811		ELECTRICAL JUNCTION BOX TYPE B	10.00	EACH		\$	
0770	04820		TRENCHING AND BACKFILLING	296.00	LF		\$	
0780	04821		OPEN CUT ROADWAY	176.00	LF		\$	
0790	04830		LOOP WIRE	4,562.00	LF		\$	
0800	04844		CABLE-NO. 14/5C	10,011.00	LF		\$	
0810	04845		CABLE-NO. 14/7C	129.00	LF		\$	
0820	04850		CABLE-NO. 14/1 PAIR	2,476.00	LF		\$	
0830	04881		MAST ARM POLE	2.00	EACH		\$	
0840	04885		MESSENGER-10800 LB	462.00	LF		\$	
0850	04895		LOOP SAW SLOT AND FILL	1,706.00	LF		\$	
0860	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		\$	
0870	04960		REMOVE AND REPLACE SIDEWALK	24.00	SQYD		\$	
0880	06472		INSTALL SPAN MOUNTED SIGN	5.00	EACH		\$	
0890	20093NS835		INSTALL PEDESTRIAN HEAD-LED	8.00	EACH		\$	
0900	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	30.00	EACH		\$	
0910	20188NS835		INSTALL LED SIGNAL-3 SECTION	66.00	EACH		\$	
0920	20189NS835		INSTALL LED SIGNAL-5 SECTION	1.00	EACH		\$	
0930	20266ES835		INSTALL LED SIGNAL- 4 SECTION	7.00	EACH		\$	
0940	20390NS835		INSTALL COORDINATING UNIT	3.00	EACH		\$	
0950	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	3.00	EACH		\$	
0960	21543EN		BORE AND JACK CONDUIT	176.00	LF		\$	
0970	21659NN		RELOCATE SIGNAL HEAD	8.00	EACH		\$	
0980	21743NN		INSTALL PEDESTRIAN DETECTOR	8.00	EACH		\$	
0990	23157EN		TRAFFIC SIGNAL POLE BASE	23.80	CUYD		\$	
1000	23158ES505		DETECTABLE WARNINGS	10.00	SQFT		\$	
1010	23836EC		RELOCATE LIGHT POLE	1.00	EACH		\$	
1020	24617EC		INSTALL WIRE	2,305.00	LF		\$	
1030	24856ED		TRAFFIC SIGNAL POLE BASE ALTERNATE	2.00	EACH		\$	
1040	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	109.00	LF		\$	
1050	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	1,105.00	LF		\$	
1060	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	3.00	EACH		\$	
1070	24955ED		REMOVE SIGNAL EQUIPMENT (KY 1682 AT KY 109)	1.00	EACH		\$	
1080	24955ED		REMOVE SIGNAL EQUIPMENT (KY 2831 AT KY 54/KY 81)	1.00	EACH		\$	
1090	24955ED		REMOVE SIGNAL EQUIPMENT (US 41A @ 5TH STREET)	1.00	EACH		\$	
1100	24955ED		REMOVE SIGNAL EQUIPMENT (US 41A @ WASHINGTON STREET)	1.00	EACH		\$	
1110	24955ED		REMOVE SIGNAL EQUIPMENT (US 431 AT SALEM/GOETZ DRIVE)	1.00	EACH		\$	

194200

PROPOSAL BID ITEMS

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Report Date 12/28/18

Section: 0004 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1120	02569		DEMOBILIZATION	1.00	LS		\$	