



CALL NO. 108

CONTRACT ID. 224320

LAUREL COUNTY

FED/STATE PROJECT NUMBER HSIP 5274(010)

DESCRIPTION BARBOURVILLE ROAD (KY 229)

WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN

PRIMARY COMPLETION DATE 7/31/2023

LETTING DATE: July 21,2022

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 21,2022. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

DBE CERTIFICATION REQUIRED - 8%

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

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PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 11

CONTRACT ID - 224320

HSIP 5274(010)

COUNTY - LAUREL

PCN - 1106302292201

HSIP 5274(010)

BARBOURVILLE ROAD (KY 229) (MP 7.512) CONSTRUCTION OF A MINI-ROUNDAABOUT AT THE INTERSECTION OF KY 229 & KY 1189 (MP 7.832), A DISTANCE OF 0.32 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 11-09016.10.

GEOGRAPHIC COORDINATES LATITUDE 37:03:52.00 LONGITUDE 84:02:03.00

ADT 7,197

COMPLETION DATE(S):

COMPLETED BY 07/31/2023

APPLIES TO ENTIRE PROJECT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

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

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

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

April 30, 2018

FEDERAL CONTRACT NOTES

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

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

CIVIL RIGHTS ACT OF 1964

The Kentucky Transportation Cabinet, Department of Highways, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, sex, age (over 40), religion, sexual orientation, gender identity, veteran status, disability, income- level, or Limited English Proficiency (LEP) in consideration for an award.

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 are acceptable per Section 108.01 of the Standard Specifications for Road and Bridge Construction. Sub-Contractors fulfilling a disadvantaged business enterprise goal on a project may enter into a 2nd tier subcontract with a Non-DBE Subcontractor. However, in this instance, none of the work subcontracted to the Non-DBE Contractor will count toward fulfilling the established Disadvantaged Goal for the project.

DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

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

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

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

DBE GOAL

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

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

OBLIGATION OF CONTRACTORS

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

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

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

CERTIFICATION OF CONTRACT GOAL

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

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

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

DBE PARTICIPATION PLAN

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

The DBE Participation Plan shall include the following:

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

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

UPON AWARD AND BEFORE A WORK ORDER WILL BE ISSUED

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

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

CONSIDERATION OF GOOD FAITH EFFORTS REQUESTS

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

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

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

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

FAILURE TO MEET GOOD FAITH REQUIREMENT

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

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

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

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

SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT

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

- Suspension of Prequalification;
- 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 and Non-DBE Subcontractors within seven (7) working days after he or she has received payment from the Kentucky Transportation Cabinet for work performed or materials furnished.

CONTRACTOR REPORTING

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

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

***** IMPORTANT *****

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

Office for Civil Rights and Small Business Development
6th Floor West 200 Mero Street
Frankfort, KY 40622

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

DEFAULT OR DECERTIFICATION OF THE DBE

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

PROHIBITION ON TELECOMMUNICATIONS EQUIPMENT OR SERVICES

In accordance with the FY 2019 National Defense Authorization Act (NDAA), 2 CFR 200.216, and 2 CFR 200.471, Federal agencies are prohibited, after August 13, 2020, from obligating or expending financial assistance to obtain certain telecommunications and video surveillance services and equipment from specific producers. As a result of these regulations, contractors and subcontractors are prohibited, on projects with federal funding participation, from providing telecommunication or video surveillance equipment, services, or systems produced by:

- Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities)
- Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities)

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.

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 & Description of Work

CAUTION

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

STATIONING

The contractor is advised that stationing has been established for the construction of the Mini-Roundabout at the intersection of KY 229 and KY 1189. See the Coordinate Control Sheet for that stationing.

LIDAR

Limited survey data was obtained in the area of the KY 229 and KY 1189 intersection and was supplemented with available KYTC Aerial LIDAR. All information should be field-verified as appropriate during construction and prior to incorporating the various project work items. Refer to the Special Note for Staking concerning staking operations required to control and construct the work.

ON-SITE INSPECTION

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

RIGHT OF WAY LIMITS

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

CONTROL

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

General Notes & Description of Work
Page 2 of 2

DESCRIPTION OF WORK

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

Mini-Roundabout. The existing 2-way stop at the intersection of KY 229 and KY 1189 will be reconstructed into a Mini-Roundabout. Work will include shoulder milling/trenching for pavement widening, level & wedging for pavement regrading, surface paving and marking, and the installation of signage. All intersection approaches have a mountable splitter island. The central island is also to be mountable. All islands are to be monolithic. All islands and the truck aprons are to be formed using dyed (Baja Red, 2-bag, RG-2827R Interstar) concrete. The tops of all islands and truck aprons are to be stamped with a stone pattern or comparable options to be provided by Contractor to Engineer for approval. The Detail Sheets included in this proposal include location and elevation information throughout the Mini-Roundabout footprint. Achieving the proposed grades is to involve level & wedging and constructing lifts of asphalt base. A 1.50" thick layer of asphalt surface is to top the paved footprint bringing the intersection to final grade. Construction of the asphalt surface will require an edge key on each approach.

Striping & Pavement Markings. Install the proposed Striping and Pavement Markings, as detailed on the Striping Plan.

Signing. Install the proposed signing, as detailed on the Signing Plan. The Contractor shall coordinate with the District Traffic Engineer to ensure that the District Traffic Engineer approves of the final sign locations.

Remove Signal Equipment. Remove the existing signal at the intersection of KY 229 and KY 1189. Removal will be paid under the bid item "Remove Signal Equipment" and will cover all work required to complete removal. All salvageable material from signal removal shall be returned to the District maintenance facility.

Temporary Striping. A quantity of Pave Striping – Temp Paint – 4 IN has been included in the contract for potential use as directed by the Engineer. The Contractor and Engineer should work together to determine any locations throughout the project requiring temporary pavement striping. The Engineer will make the final determination as to the quantities and placement of temporary pavement striping.

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 201.03.01, perform items 1 & 2 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. Because the sign locations in the proposal are approximate and the location of some signs may need to be adjusted due to conflicts, during staking operations the Contractor shall refer to and utilize the information in the Manual on Uniform on Traffic Control Devices (MUTCD), current edition. The MUTCD cover items such as: appropriate sign location, advance placement distances, and spacing requirements for signing. The intent is for the proposed signs to be consistent with, and meet the requirements of, the MUTCD. Once the proposed sign locations have been staked, notify and coordinate with the District Traffic Engineer, and perform a review of the staked locations. Adjust the staked locations, as directed by the District Traffic Engineer and obtain approval of the final staked locations. This review will also be used to determine if there are any existing signs that require removal and/or relocation. Provide the District Traffic Engineer with 2 weeks of notice when a route will be ready for a review of the staked locations. NOTE: The District Traffic Engineer may determine that the proposed signing, including sign types and messages, needs to be adjusted and/or modified from what is shown in the proposal. Therefore, the Contractor shall not order any sign material for a route until the route has been staked and final sign location approval has been given by the District Traffic Engineer.
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, etc. Adjust as necessary to accommodate the existing site conditions and to provide proper alignment of the proposed thru and turning lanes. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the striping and/or pavement markings.
4. Prior to incorporating into the work, obtain the Engineers approval of all revisions determined by the Contractor.
5. Perform any and all other staking operations required to control and construct the work.

SPECIAL NOTE FOR SHOULDER MILLING/TRENCHING

Trench areas as shown on the Typical Section, Plan Sheets, and/or as Directed by the Engineer. DO NOT trench areas without the Engineer's approval. If trenching is achieved by means other than milling, saw cut the pavement 1.50 to 16 inches deep to create a smooth edge prior to excavating the trench. Excavate the material and maintain the proposed cross-slope as shown on the Typical Sections. The intent is to mill, or excavate, the entire trench so that the proposed slope is retained at the end of the paving operation.

Retain possession of excess materials and/or materials the Engineer deems unsuitable for reuse, and waste the materials off the right-of-way at sites obtained by the Contractor at no additional cost to the Department. See Special Provision for Waste and Borrow.

Accept payment at the contract unit price per square yard for SHOULDER MILLING/TRENCHING as full compensation for all labor, materials, equipment, and incidentals for excavating the trench and disposal and/or reuse of the excavated material.

Special Note for Signage

The final advisory speeds and some sign types will have to be determined after the curve superelevation improvements and final surfacing operations have been completed. The Contractor shall notify the Engineer and District Traffic Engineer when all of the superelevation improvements and surfacing operations have been completed. Once notified, the District Traffic Engineer will ball-bank the newly surfaced curves to determine the appropriate advisory speeds and work with the Contractor to determine the final Signing Plan. The Engineer and/or District Traffic Engineer will provide the Contractor with the final advisory speeds, any changes to proposed sign types, and the final quantities within three (3) weeks of being notified by the Contractor that final surfacing operations are complete. After the Contractor has received this information from the Engineer and/or the District Traffic Engineer, the Contractor shall then proceed to layout and stake the signing according to the Special Note for Staking, included elsewhere in this Proposal.

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

All permanent signs and sign components shall be fabricated using Type XI sheeting.

The following signs and sign components shall be fabricated using Type XI 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 XI 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 pointing arrow (W16-7P) plaques that supplement Bicycle Warning signs.
- Pedestrian Warning signs and diagonal downward pointing arrow plaques that supplement Pedestrian 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

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 the sheet to be used as the sign face to receive the retroreflective background material

Signing

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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., or installations on existing asphalt, such as flush medians, Type I steel posts shall be mounted on a Type D Surface Mount. For Type D Surface Mounts use only Kleen Break Model 425 by Xcessories Squared of Auburn, IL. If the Surface Mount is to be installed on sufficiently cured concrete, use part number XKBSM42520-G. If the Surface Mount is to be installed on asphalt surface, use part numbers XKB42520-G and AXT225-36-G. 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.

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

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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 XI Sheeting)
- White and yellow (Type XI 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 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

Signing
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Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.

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

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

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

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

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

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

IV. METHOD OF MEASUREMENT

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

V. BASIS OF PAYMENT

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

Signing
Page 6 of 6

- B. Signs.** The Department will make payment for the completed and accepted quantities under the bid item SBM ALUM SHEET SIGNS .125 IN or .080 IN. The Department will consider payment full compensation for all work and incidentals necessary to install the signs, as required by these notes and the details found elsewhere in the proposal, at the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.
- C. Sign Posts.** The Department will make payment for the completed and accepted quantities under the bid item STEEL POST TYPE I. The Department will consider payment full compensation for all work and incidentals necessary to install the sign posts as required by these notes and the details found elsewhere in the proposal.
- D. Type D Breakaway Sign Supports.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D. The Department will consider payment full compensation for all work and incidentals necessary to install the Type D breakaway sign supports as required by Standard Drawing RGX-065, current edition.
- E. Type D Surface Mounts.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D Surface Mount. The Department will consider payment full compensation for all work and incidentals necessary to install the Type D surface mounts according to all applicable manufacturer requirements.
NOTE: The permissible Type D Surface Mount alternative is: Kleen Break Model 425 for Surface Mount Concrete Installations by Xcessories Squared of Auburn, 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 Tubular Markers – Pexco City Post (Embedded Anchor Cup)

I. DESCRIPTION

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

- (1) Maintaining and Controlling Traffic; (2) Installing Pexco City Post (Embedded Anchor Cup); 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. Tubular Markers.** Furnish Pexco City Post Embedded Anchor Cup Tubular Marker which includes delineator posts/panels, adhesive shield, rubber gasket, and anchor cup. The complete system shall be compliant with NCHRP 350 or MASH. Manufacturer's documentation validating this compliance shall be provided to the Engineer prior to installation. System color shall match the adjacent pavement marking color. The upright delineator posts shall be 18 inches in height and 3 inches in diameter. The upright delineator posts are to be uniformly spaced according the Detail Sheets found elsewhere in the Proposal. Post color shall match the adjacent pavement marking color. Each post shall have a "double wrap" of retroreflective sheeting of color matching the post and adjacent pavement marking. Upright posts should be easily replaceable under traffic conditions and shall be fabricated to withstand repeated impacts and return to a complete upright position with minimal maintenance to the unit.

III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Staking.** See the Special Note for Staking.
- C. Site Preparation.** Be responsible for all site preparation recommended by the manufacturer or as directed by the Engineer.
- D. Pexco City Post Embedded Anchor Cup.** Install the tubular markerd according to the manufacturer's recommendations at the location(s) and spacing indicated on the Detail Sheets found elsewhere in the Proposal.

Pexco City Post (Embedded Cup Anchor)
Page 2 of 2

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

IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Staking.** See the Special Note for Staking.
- C. 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.
- D. Tubular Markers.** The Department will measure Pexco City Post Embedded Anchor Cup as EACH.

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Staking.** See the Special Note for Staking.
- C. Tubular Markers.** The Department will make payment for the completed and accepted quantities under the bid item TUBULAR MARKERS (PEXCO CITY POST EMBEDDED ANCHOR CUP). Payment at the Contract unit price of EACH shall be full compensation for furnishing all materials, equipment, tools, hardware, labor, and incidentals necessary to properly install the Pexco City Post Embedded Anchor Cup according to the manufacturer's installation instructions, these notes, and/or as directed by the Engineer.

SPECIAL NOTE

Hazardous Materials

Laurel County
Construct a mini-roundabout at the intersection of
KY-229 & KY-1189.
Item No. 11-9016.10

Should suspect petroleum contaminated soils be encountered during excavation/construction they should not be reused or discarded without KYTC authorization. The Contractor shall immediately contact KYTC Division of Environmental Analysis (DEA), (Chris Cummins, or Brittany Lowry) at (502) 564-7250. KYTC DEA will coordinate with a UST/Hazmat Statewide Contractor to assist the contractor in characterizing the soil and/or groundwater for removal/disposal of contaminated material. The contractor may coordinate to work in other areas until the material is removed. Parcels that KYTC has identified but is not limited to potential contamination are P-1.

If there are any questions regarding this note, please contact Danny Peake, Director, Division of Environmental Analysis, 200 Mero Street, Frankfort, KY 40601; Phone: (502) 564-7250.

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

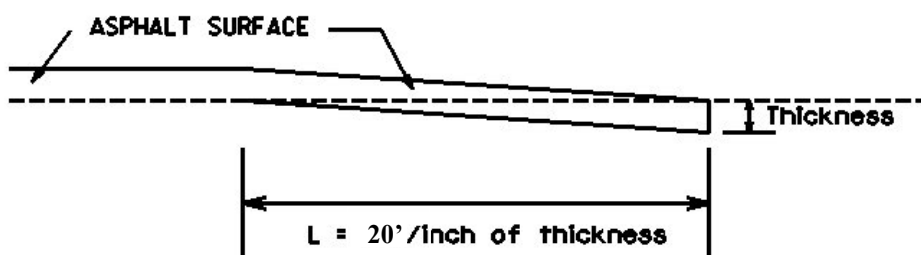
Be advised, there may be an active project(s) adjacent to or within this project. The Engineer will coordinate the work of the Contractors. See Section 105.06.

1-3193 Coordination Contracts
01/02/2012

SPECIAL NOTE FOR EDGE KEY

Construct Edge Keys at the beginning of project, end of project, at railroad crossings, and at intersections with ramps, as applicable. Unless specified in the Contract or directed by the Engineer, do not construct edge keys at intersecting streets, roads, alleys, or entrances. Cut out the existing asphalt surface to the required depth and width shown on the drawing and heel the new surface into the existing surface. The Department will measure the Edge Key at the joint as the width of the pavement perpendicular to the centerline in linear feet. The Department will pay for this work at the Contract unit price per linear foot, which shall be full compensation for all labor, materials, equipment, and incidentals for removal and disposal of the existing asphalt surface required to construct the edge key.

EDGE KEY



Thickness = 1.5 Inches

L = 30 LF

L = Length of Edge Key

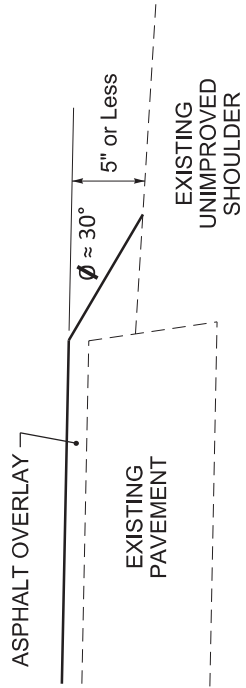
SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

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

1-3725 Typical Section Dimensions
01/02/2012

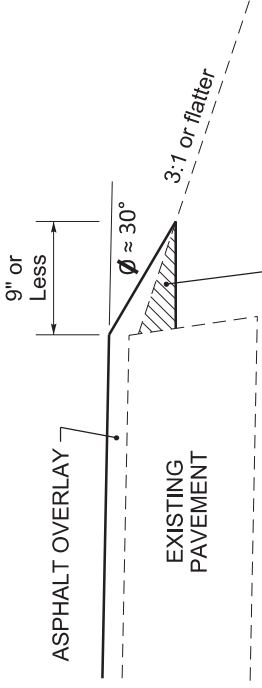
DURABLE PAVEMENT EDGE DETAIL

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



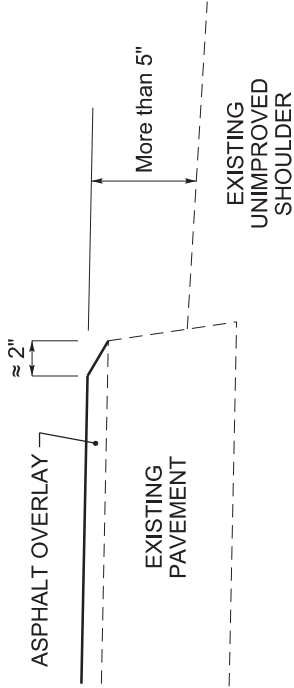
DURABLE PAVEMENT EDGE DETAIL

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



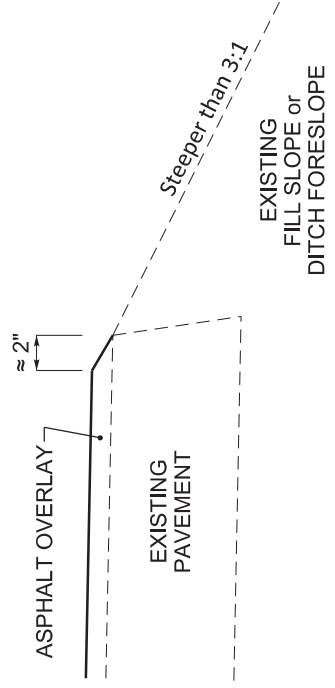
DURABLE PAVEMENT EDGE DETAIL

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



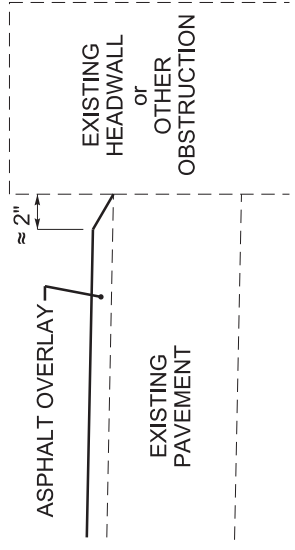
DURABLE PAVEMENT EDGE DETAIL

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



DURABLE PAVEMENT EDGE DETAIL

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



PREPARE SHOULDER ACCORDING TO STANDARD SPECIFICATIONS

NOTES

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

DRAWING NOT TO SCALE

DURABLE PAVEMENT EDGE DETAILS



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)
11-9016.10	Laurel	12F0 FD52 063 1011001R	HSIP 5274010

PROJECT DESCRIPTION

Construct a mini roundabout at the intersection of KY 229 & KY 1189

No Additional Right of Way Required

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

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

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

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

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

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

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

Total Number of Parcels on Project	2	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired			
Signed Deed			
Condemnation	2		Deeds signed for Par 2 and Par 3 check delivered for Par 3 . Par 2 check is on the way to district attorney from Central Office.
Signed ROE			

Notes/ Comments (Use Additional Sheet if necessary)

Par 2 Deed signed Civil Action Complete Check will be delivered Monday June 20th by attorney
Par 3 Deed signed Civil Action complete Check will be delivered Tuesday June 14th by attorney

LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Greg Combs
Signature		Signature	Greg Combs Digitally signed by Greg Combs Date: 2022.06.14 09:58:48 -04'00'
Date		Date	
Right of Way Director		FHWA	
Printed Name		Printed Name	
Signature	2022.06.14	Signature	No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Date	10:09:38 -04'00'	Date	

UTILITIES AND RAIL CERTIFICATION NOTE

Laurel County - HSIP 5274(010)
FD52 063 0229 007-008
Mini Roundabout at the Intersection of KY 229 & KY 1189
Item No. 11-9016.10

GENERAL PROJECT NOTES ON UTILITIES

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

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

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

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

UTILITIES AND RAIL CERTIFICATION NOTE

Laurel County - HSIP 5274(010)
FD52 063 0229 007-008
Mini Roundabout at the Intersection of KY 229 & KY 1189
Item No. 11-9016.10

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

The following utilities run along and cross both KY 229 and KY 1189 in multiple locations:

- Water mains
- Utility poles with overhead electric and communication lines
- Underground telephone lines
- Underground television lines
- Underground electric lines
- Sanitary lines
- Gas mains

If an unknown utility is encountered, the contractor will be responsible for arranging an on-site meeting with utility representatives and the Engineer to discuss possible impacts and solutions to either avoid the utility or relocate the utility.

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

RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

No Rail Involvement Rail Involved Rail Adjacent

UTILITIES AND RAIL CERTIFICATION NOTE

Laurel County - HSIP 5274(010)
FD52 063 0229 007-008
Mini Roundabout at the Intersection of KY 229 & KY 1189
Item No. 11-9016.10

AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
1. Charter	Lee Bowlin	105 W. Third Street Corbin, KY 40701 606-271-2504 albert.bowlin@charter.com
	William Clark	606-416-9212
2. Delta Natural Gas Company	Rob Nellipowitz	3617 Lexington Road Winchester, KY 40391 859-744-6171, Ext. 1167 rnellipowitz@DeltaGas.com
3. KU	David Laun	180 Substation Road London, KY 40741 606-864-2821, Ext. 5 David.Laun@lge-ku.com
4. Windstream	Tommy Lewis	606-309-2279 Tommy.Lewis@windstream.com
5. Wood Creek/East/West Laurel Water	Jay Williams	PO Box 726 London, KY 40741 606-878-9420 606-309-1550 jaywilliams@woodcreekwater.org

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.

KYTC BMP Plan for Project Item # 11-9016.10



Kentucky Transportation Cabinet

Highway District 11

And

_____ (2), Construction

**Kentucky Pollutant Discharge Elimination System
Permit KYR10**

Best Management Practices (BMP) plan

Groundwater protection plan

For Highway Construction Activities

For

**Highway Safety Improvement Project
at the Intersection of KY 229 & KY 1189
in Laurel County**

Project: Item # 11-9016.10

KYTC BMP Plan for Project Item # 11-9016.10

Project information

Note – (1) = Design (2) = Construction (3) = Contractor

1. Owner – Kentucky Transportation Cabinet, District 11
2. Resident Engineer: (2)
3. Contractor name: (2)
Address: (2)

Phone number: (2)
Contact: (2)
Contractor's agent responsible for compliance with the KPDES permit requirements (3):
4. Project Control Number: (2)
5. Route (Address): KY 229 @ KY 1189
6. Latitude/Longitude (project mid-point): 37° 03' 52", -84° 02' 03"
7. County (project mid-point): Laurel
8. Project start date (date work will begin): (2)
9. Projected completion date: (2)

KYTC BMP Plan for Project Item # 11-9016.10

A. Site description:

1. Nature of Construction Activity (from letting project description): Asphalt Surface with Grade & Drain
2. Order of major soil disturbing activities: (2) and (3)
3. Projected volume of material to be moved: 433 CY (Cut) & 216 CY (Fill)
4. Estimate of total project area (acres): 2.0 acres
5. Estimate of area to be disturbed (acres): 1.2 acres
6. Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information.
7. Data describing existing soil condition: (1) & (2)
8. Data describing existing discharge water quality (if any): (1) & (2)
9. Receiving water name: Locke Branch, Lick Creek
10. TMDLs and Pollutants of Concern in Receiving Waters: *No TDML's were involved on this project.*
11. Site map – Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.
12. Potential sources of pollutants:
The primary source of pollutants is solids that are mobilized during storm events. Other sources of pollutants include oil/fuel/grease from servicing and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. (3)

KYTC BMP Plan for Project Item # 11-9016.10

B. Sediment and Erosion Control Measures:

1. Plans for highway construction projects will include erosion control sheets that depict Disturbed Drainage Areas (DDAs) and related information. These plan sheets will show the existing project conditions with areas delineated by DDA within the right of way limits, the discharge points and the areas that drain to each discharge point. Project managers and designers will analyze the DDAs and identify Best Management Practices (BMPs) that are site specific. The balance of the BMPs for the project will be listed in the bid documents for selection and use by the contractor on the project with approval by the resident engineer.

Projects that do not have DDAs annotated on the erosion control sheets will employ the same concepts for development and managing BMP plans.

2. Following award of the contract, the contractor and resident engineer will annotate the erosion control sheets showing location and type of BMPs for each of the DDAs that will be disturbed at the outset of the project. This annotation will be accompanied by an order of work that reflects the order or sequence of major soil moving activities. The remaining DDAs are to be designated as "Do Not Disturb" until the contractor and resident engineer prepare the plan for BMPs to be employed. The initial BMP's shall be for the first phase (generally Clearing and Grubbing) and shall be modified as needed as the project changes phases. The BMP Plan will be modified to reflect disturbance in additional DDA's as the work progresses. All DDA's will have adequate BMP's in place before being disturbed.
3. As DDAs are prepared for construction, the following will be addressed for the project as a whole or for each DDA as appropriate:
 - Construction Access – This is the first land-disturbing activity. As soon as construction begins, bare areas will be stabilized with gravel and temporary mulch and/or vegetation.
 - At the beginning of the project, all DDAs for the project will be inspected for areas that are a source of storm water pollutants. Areas that are a source of pollutants will receive appropriate cover or BMPs to arrest the introduction of pollutants into storm water. Areas that have not been opened by the contractor will be inspected periodically (once per month) to determine if there is a need to employ BMPs to keep pollutants from entering storm water.
 - Clearing and Grubbing – The following BMP's will be considered and used where appropriate.
 - Leaving areas undisturbed when possible.
 - Silt basins to provide silt volume for large areas.
 - Silt Traps Type A for small areas.

KYTC BMP Plan for Project Item # **11-9016.10**

- Silt Traps Type C in front of existing pipes and drop inlets which are to be saved
- Diversion ditches to catch sheet runoff and carry it to basins or traps or to divert it around areas to be disturbed.
- Brush and/or other barriers to slow and/or divert runoff.
- Silt fences to catch sheet runoff on short slopes. For longer slopes, multiple rows of silt fence may be considered.
- Temporary Mulch for areas which are not feasible for the fore mentioned types of protections.
- Non-standard or innovative methods.
- Cut & Fill and placement of drainage structures - The BMP Plan will be modified to show additional BMP's such as:
 - Silt Traps Type B in ditches and/or drainways as they are completed
 - Silt Traps Type C in front of pipes and drop inlets after they are placed
 - Channel Lining
 - Erosion Control Blanket
 - Temporary mulch and/or seeding for areas where construction activities will be ceased for 21 days or more.
 - Non-standard or innovative methods
- Profile and X-Section in place – The BMP Plan will be modified to show elimination of BMP's which had to be removed and the addition of new BMP's as the roadway was shaped. Probably changes include:
 - Silt Trap Type A, Brush and/or other barriers, Temporary Mulch, and any other BMP which had to be removed for final grading to take place.
 - Additional Silt Traps Type B and Type C to be placed as final drainage patterns are put in place.
 - Additional Channel Lining and/or Erosion Control Blanket.
 - Temporary Mulch for areas where Permanent Seeding and Protection cannot be done within 21 days.
 - Special BMP's such as Karst Policy
- Finish Work (Paving, Seeding, Protect, etc.) – A final BMP Plan will result from modifications during this phase of construction. Probable changes include:
 - Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
 - Permanent Seeding and Protection
 - Placing Sod

KYTC BMP Plan for Project Item # **11-9016.10**

- Planting trees and/or shrubs where they are included in the project
- BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are: *This project does not include storm water BMPs or flow controls for post-construction use.*

C. Other Control Measures

1. No solid materials, including building materials, shall be discharged to waters of the commonwealth, except as authorized by a Section 404 permit.

2. Waste Materials

All waste materials that may leach pollutants (paint and paint containers, caulk tubes, oil/grease containers, liquids of any kind, soluble materials, etc.) will be collected and stored in appropriate covered waste containers. Waste containers shall be removed from the project site on a sufficiently frequent basis as to not allow wastes to become a source of pollution. All personnel will be instructed regarding the correct procedure for waste disposal. Wastes will be disposed in accordance with appropriate regulations. Notices stating these practices will be posted in the office.

3. Hazardous Waste

All hazardous waste materials will be managed and disposed of in the manner specified by local or state regulation. The contractor shall notify the Section Engineer if there any hazardous wastes being generated at the project site and how these wastes are being managed. Site personnel will be instructed with regard to proper storage and handling of hazardous wastes when required. The Transportation Cabinet will file for generator, registration when appropriate, with the Division of Waste Management and advise the contractor regarding waste management requirements.

4. Spill Prevention

The following material management practices will be used to reduce the risk of spills or other exposure of materials and substances to the weather and/or runoff.

- **Good Housekeeping:**

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The following good housekeeping practices will be followed onsite during the construction project.

- An effort will be made to store only enough product required to do the job
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure
- Products will be kept in their original containers with the original manufacturer's label
- Substances will not be mixed with one another unless recommended by the manufacturer
- Whenever possible, all of the product will be used up before disposing of the container
- Manufacturers' recommendations for proper use and disposal will be followed
- The site contractor will inspect daily to ensure proper use and disposal of materials onsite

➤ **Hazardous Products:**

These practices will be used to reduce the risks associated with any and all hazardous materials.

- Products will be kept in original containers unless they are not resealable
- Original labels and material safety data sheets (MSDS) will be reviewed and retained
- Contractor will follow procedures recommended by the manufacturer when handling hazardous materials
- If surplus product must be disposed of, manufacturers' or state/local recommended methods for proper disposal will be followed

The following product-specific practices will be followed onsite:

➤ **Petroleum Products:**

Vehicles and equipment that are fueled and maintained on site will be monitored for leaks, and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products onsite will be stored in tightly sealed containers, which are clearly labeled and will be protected from exposure to weather.

The contractor shall prepare an Oil Pollution Spill Prevention Control and Countermeasure plan when the project that involves the storage of petroleum

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products in 55 gallon or larger containers with a total combined storage capacity of 1,320 gallons. This is a requirement of 40 CFR 112.

This project (will / will not) (3) have over 1,320 gallons of petroleum products with a total capacity, sum of all containers 55 gallon capacity and larger.

➤ **Fertilizers:**

Fertilizers will be applied at rates prescribed by the contract, standard specifications or as directed by the resident engineer. Once applied, fertilizer will be covered with mulch or blankets or worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

➤ **Paints:**

All containers will be tightly sealed and stored indoors or under roof when not being used. Excess paint or paint wash water will not be discharged to the drainage or storm sewer system but will be properly disposed of according to manufacturers' instructions or state and local regulations.

➤ **Concrete Truck Washout:**

Concrete truck mixers and chutes will not be washed on pavement, near storm drain inlets, or within 75 feet of any ditch, stream, wetland, lake, or sinkhole. Where possible, excess concrete and wash water will be discharged to areas prepared for pouring new concrete, flat areas to be paved that are away from ditches or drainage system features, or other locations that will not drain off site. Where this approach is not possible, a shallow earthen wash basin will be excavated away from ditches to receive the wash water

➤ **Spill Control Practices**

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup will be clearly posted. All personnel will be made aware of procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include as appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.
- All spills will be cleaned up immediately after discovery.

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- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state/local agency as required by KRS 224 and applicable federal law.
- The spill prevention plan will be adjusted as needed to prevent spills from reoccurring and improve spill response and cleanup.
- Spills of products will be cleaned up promptly. Wastes from spill cleanup will be disposed in accordance with appropriate regulations.

D. Other State and Local Plans

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines, or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials. *There are no other local (MS4) requirements that are expected to be necessary for this project.*

E. Maintenance

1. The BMP plan shall include a clear description of the maintenance procedures necessary to keep the control measures in good and effective operating condition.
 - Maintenance of BMPs during construction shall be a result of weekly and post rain event inspections with action being taken by the contractor to correct deficiencies.
 - Post Construction maintenance will be a function of normal highway maintenance operations. Following final project acceptance by the cabinet, district highway crews will be responsible for identification and correction of deficiencies regarding ground cover and cleaning of storm water BMPs. The project manager shall identify any BMPs that will be for the purpose of post construction storm water management with specific guidance for any non-routine maintenance. *There are no such BMP's for this project.*

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F. Inspections

Inspection and maintenance practices that will be used to maintain erosion and sediment controls:

- All erosion prevention and sediment control measures will be inspected at least once each week and following any rain of one-half inch or more.
- Inspections will be conducted by individuals that have successfully completed the KEPSC-RI course as required by Section 213.02.02 of the Standard Specifications for Road and Bridge Construction, current edition.
- Inspection reports will be written, signed, dated, and kept on file.
- Areas at final grade will be seeded and mulched within 14 days.
- Areas that are not at final grade where construction has ceased for a period of 21 days or longer and soil stock piles shall receive temporary mulch no later than 14 days from the last construction activity in that area.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of being reported.
- Built-up sediment will be removed from behind the silt fence before it has reached halfway up the height of the fence.
- Silt fences will be inspected for bypassing, overtopping, undercutting, depth of sediment, tears, and to ensure attachment to secure posts.
- Sediment basins will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 50 percent of the design capacity and at the end of the job.
- Diversion dikes and berms will be inspected and any breaches promptly repaired. Areas that are eroding or scouring will be repaired and re-seeded / mulched as needed.
- Temporary and permanent seeding and mulching will be inspected for bare spots, washouts, and healthy growth. Bare or eroded areas will be repaired as needed.
- All material storage and equipment servicing areas that involve the management of bulk liquids, fuels, and bulk solids will be inspected weekly for conditions that represent a release or possible release of pollutants to the environment.

G. Non – Storm Water Discharges

It is expected that non-storm water discharges may occur from the site during the construction period. Examples of non-storm water discharges include:

- Water from water line flushings.
- Water from cleaning concrete trucks and equipment.

KYTC BMP Plan for Project Item # 11-9016.10

- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Uncontaminated groundwater and rain water (from dewatering during excavation).

All non-storm water discharges will be directed to the sediment basin or to a filter fence enclosure in a flat vegetated infiltration area or be filtered via another approved commercial product.

H. Groundwater Protection Plan (3)

This plan serves as the groundwater protection plan as required by 401 KAR 5:037.

- Contractors statement: (3)

The following activities, as enumerated by 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan, will or may be may be conducted as part of this construction project:

_____ 2. (e) land treatment or land disposal of a pollutant;

_____ 2. (f) Storing, ..., or related handling of hazardous waste, solid waste or special waste, ..., in tanks, drums, or other containers, or in piles, (This does not include wastes managed in a container placed for collection and removal of municipal solid waste for disposal off site);

_____ 2. (g) Handling of materials in bulk quantities (equal or greater than 55 gallons or 100 pounds net dry weight transported held in an individual container) that, if released to the environment, would be a pollutant;

_____ 2. (j) Storing or related handling of road oils, dust suppressants,, at a central location;

_____ 2. (k) Application or related handling of road oils, dust suppressants or deicing materials, (does not include use of chloride-based deicing materials applied to roads or parking lots);

_____ 2. (m) Installation, construction, operation, or abandonment of wells, bore holes, or core holes, (this does not include bore holes for the purpose of explosive demolition);

Or, check the following only if there are no qualifying activities:

KYTC BMP Plan for Project Item # **11-9016.10**

_____ There are no activities for this project as listed in 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan.

The contractor is responsible for the preparation of a plan that addresses the 401 KAR 5:037 Section 3. (3) Elements of site specific groundwater protection plan:

- (a) General information about this project is covered in the Project information;
- (b) Activities that require a groundwater protection plan have been identified above;
- (c) Practices that will protect groundwater from pollution are addressed in section C. Other control measures.
- (d) Implementation schedule – all practices required to prevent pollution of groundwater are to be in place prior to conducting the activity;
- (e) Training is required as a part of the ground water protection plan. All employees of the contractor, sub-contractor, and resident engineer personnel will be trained to understand the nature and requirements of this plan as they pertain to their job function(s). Training will be accomplished within one week of employment and annually thereafter. A record of training will be maintained by the contractor with a copy provide to the resident engineer.
- (f) Areas of the project and groundwater plan activities will be inspected as part of the weekly sediment and erosion control inspections
- (g) Certification (see signature page.)

KYTC BMP Plan for Project Item # **11-9016.10**

Contractor and Resident Engineer Plan certification

The contractor that is responsible for implementing this BMP plan is identified in the Project Information section of this plan.

The following certification applies to all parties that are signatory to this BMP plan:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Further, this plan complies with the requirements of 401 KAR 5:037. By this certification, the undersigned state that the individuals signing the plan have reviewed the terms of the plan and will implement its provisions as they pertain to ground water protection.

Resident Engineer and Contractor Certification:

(2) Resident Engineer signature

Signed _____ title _____, _____
Typed or printed name² signature

(3) Signed _____ title _____, _____
Typed or printed name¹ signature

1. Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner, or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

2. KYTC Note: to be signed by the Chief District Engineer, or a person designated to have the authority to sign reports by such a person (usually the resident engineer) in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601 Reference the Project Control Number (PCN) and KPDES number when one has been issued.

KYTC BMP Plan for Project Item # **11-9016.10**

Sub-Contractor Certification

The following sub-contractor shall be made aware of the BMP plan and responsible for implementation of BMPs identified in this plan as follows:

Subcontractor

Name:

Address:

Address:

Phone:

The part of BMP plan this subcontractor is responsible to implement is:

I certify under penalty of law that I understand the terms and conditions of the general Kentucky Pollutant Discharge Elimination System permit that authorizes the storm water discharges, the BMP plan that has been developed to manage the quality of water to be discharged as a result of storm events associated with the construction site activity and management of non-storm water pollutant sources identified as part of this certification.

Signed _____ title _____, _____
Typed or printed name¹ signature

1. Sub-Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner, or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

Item No.: 11-9016.10
Laurel County
Highway Safety Improvement Project
at the Intersection of KY 229 & KY 1189

An electronic Notice of Intent (eNOI) for obtaining coverage under the Kentucky Pollutant Discharge Elimination System (KPDES) General Permit for Stormwater Discharges Associated with Construction Activities (KYR10) has been submitted, a copy of which is attached. The Contractor shall be responsible for advancing the work within this contract in a manner that is compliant with all applicable and appropriate KYTC specifications for sediment and erosion control, as well as meeting the requirements of the KYR10 permit and the KDOW.

eForm Submittal ID: 276821



ANDY BESHEAR
GOVERNOR

REBECCA W. GOODMAN
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENT PROTECTION

ANTHONY R. HATTON
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

March 1, 2022

Chris J. Jones
Kentucky Transportation Cabinet - District #11
603 Railroad Avenue
Manchester, KY 40962

RE: **KYR10 Coverage Acknowledgement**
KPDES No.: KYR10Q147
11-9016.10 - KY-229 & KY-1187 Roundabout
Permit Type: Construction
AI ID: 6474
Laurel County, Kentucky

Dear Chris Jones:

The discharges associated with the Notice of Intent you submitted have been approved for coverage under the "Kentucky Pollutant Discharge Elimination System (KPDES) General Permit for Storm Water Discharges Associated with Construction Activities (KYR100000)" master general permit. Your coverage becomes effective on the date of this letter, and will automatically terminate two years from the effective date of your coverage unless an extension is requested prior to the termination date, until the KYR100000 master general permit expires on November 30, 2024, or the Division of Water revokes coverage, whichever comes first. During this period of coverage all discharges shall comply with the conditions of the KYR100000 master general permit. This permit and links to the eNOI (and permit coverage extension) and eNOT forms can be found on our website: <https://eec.ky.gov/Environmental-Protection/Water/PermitCert/KPDES/Documents/KYR10PermitPage.pdf>.

Any person aggrieved by the issuance of a permit final decision may demand a hearing pursuant to KRS 224.10-420(2) within thirty (30) days from the date of the issuance of this letter. Any demand for a hearing on the permit shall be filed in accordance with the procedures specified in KRS 224.10-420, 224.10-440, 224.10-470, and the regulations promulgated thereto. The request for hearing should be submitted in writing to the Energy and Environment Cabinet, Office of Administrative Hearings, 211 Sower Boulevard, Frankfort, Kentucky 40601 and the Commonwealth of Kentucky, Energy and Environment Cabinet, Division of Water, 300 Sower Boulevard, Frankfort, Kentucky 40601. For your record keeping purposes, it is recommended that these requests be sent by certified mail. The written request must conform to the appropriate statutes referenced above.

Any questions concerning the general permit and its requirements should be directed to me at 502-782-9695 or email me at Justinm.smith@ky.gov

Construction Site GPS Coordinates: 37.064519°, - 84.034138°
Receiving Water: Lick Creek & Locke Branch – Laurel County

Sincerely,

A handwritten signature in black ink, appearing to read "Justin Smith".

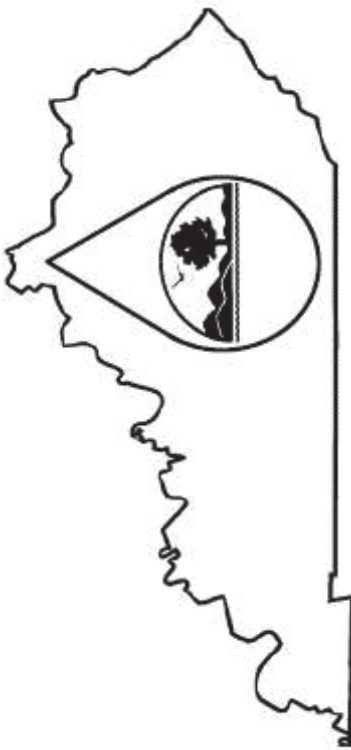
Justin Smith
Surface Water Permits Branch
Division of Water

cc: Joshua Higgins, eNOI Preparer
Robert Miller, London Regional Office



Thank you for submitting your information via the Kentucky Department for Environmental Protection eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. The Submittal ID for this transaction is 276821 and was submitted on February 14, 2022 11:46 AM Eastern Time. If you need to contact EEC regarding your submission, please reference your Submittal ID.

The eForm Submittal ID allows you to use the data from this submittal as a template and/or download a copy of your submittal.



KENTUCKY POLLUTION DISCHARGE ELIMINATION SYSTEM (KPDES)

Notice of Intent (NOI) for coverage of Storm Water Discharge Associated with Construction Activities Under the KPDES Storm Water General Permit KYR100000

[Click here for Instructions \(Controls/KPDES_FormKYR10_Instructions.htm\)](#)

Click here to obtain information and a copy of the KPDES General Permit. (<http://dep.ky.gov/formslibrary/Documents/KYR10PermitPage.pdf>)

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Reason for Submittal: (*)	Agency Interest ID:	Permit Number: (✓)
Application for New Permit Cov ▼	Agency Interest ID	KPDES Permit Number
If change to existing permit coverage is requested, describe the changes for which modification of coverage is being sought: (✓)		
ELIGIBILITY: Stormwater discharges associated with construction activities disturbing individually one (1) acre or more, including, in the case of a common plan of development, contiguous construction activities that cumulatively equal one (1) acre or more of disturbance.		
EXCLUSIONS: The following are excluded from coverage under this general permit: 1) Are conducted at or on properties that have obtained an individual KPDES permit for the discharge of other wastewaters which requires the development and implementation of a Best Management Practices (BMP) plan; 2) Any operation that the DOW determines an individual permit would better address the discharges from that operation; 3) Any project that discharges to an Impaired Water listed in the most recent Integrated Report, §305(b) as impaired for sediment and for which an approved TMDL has been developed.		

SECTION I -- FACILITY OPERATOR INFORMATION (PERMITTEE)

Company Name:(✓) Kentucky Transportation Cabinet - District 1:		First Name:(✓) Chris	M.I.: J	Last Name:(✓) Jones
Mailing Address:(*) 603 Railroad Ave.	City:(*) Manchester	State:(*) Kentucky		Zip:(*) 40962
eMail Address:(*) chrisj.jones@ky.gov	Business Phone:(*) 606-598-2145	Alternate Phone: Phone		

SECTION II -- GENERAL SITE LOCATION INFORMATION

Project Name:(*) 11-9016.10 - KY-229 & KY-1187 Roundabout	Status of Owner/Operator(*) State Government	SIC Code(*) 1611 Highway and St
Company Name:(✓) Kentucky Transportation Cabinet - District 1:	First Name:(✓) Chris	M.I.: J

Site Physical Address:(*) Ky-229, Mile point 7.5 - 7.8	
City:(*) London	State:(*) Kentucky
County:(*) Laurel	Zip:(*) 40744
Latitude(decimal degrees)(*) Converter (https://www.fcc.gov/media/radio/dms-decimal) 37.064519	Longitude(decimal degrees)(*) -84.034138

SECTION III -- SPECIFIC SITE ACTIVITY INFORMATION

Section III requires part A or part B to be completed.

Project Description:(*)
Roundabout construction at the intersection of KY-229 and KY-1187 in Laurel County.

a. For single projects provide the following information

Total Number of Acres in Project:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;">2.00</div>	Total Number of Acres Disturbed:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;">1.20</div>
Anticipated Start Date:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;">6/24/2022</div>	Anticipated Completion Date:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;">6/24/2024</div>
b. For common plans of development provide the following information	
Total Number of Acres in Project:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;"># Acre(s)</div>	Total Number of Acres Disturbed:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;"># Acre(s)</div>
Number of individual lots in development, if applicable:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;"># lot(s)</div>	Number of lots in development:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;"># lot(s)</div>
Total acreage of lots intended to be developed:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;">Project Acres</div>	Number of acres intended to be disturbed at any one time:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;">Disturbed Acres</div>
Anticipated Start Date:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;">Anticipated Start Date:(✓)</div>	Anticipated Completion Date:(✓) <div style="border: 1px solid black; padding: 2px; text-align: center;">Anticipated Completion Date:(✓)</div>
List Building Contractor(s) at the time of Application:(*) <div style="border: 1px solid black; padding: 2px; text-align: center;">Company Name</div>	

SECTION IV -- IF THE PERMITTED SITE DISCHARGES TO A WATER BODY THE FOLLOWING INFORMATION IS REQUIRED

Complete the following table if the permitted site discharges to a water body. Please note that if you enter a row in the below table, all columns are required to be filled out.

Unnamed Tributary?: Does discharge enter an unnamed tributary prior to entering a named receiving water?
 Latitude in decimal degrees: Format must be between 36.490000 and 39.150000, with a minimum of 5 decimal points of accuracy.
 Longitude in decimal degrees: Format must be between -89.580000 and -81.960000, with a minimum of 5 decimal points of accuracy.
 Receiving Water Name: Receiving water name must be from the following list of possible receiving waters. (click here for a list (Controls/ReceivingStream.htm)). If the discharge flows into an unnamed tributary, please enter the first "named" receiving water for which the unnamed tributary(ies) eventually flows into.

Discharge Point(s):			
Unnamed Tributary?	Latitude	Longitude	Receiving Water Name
No	37.063842	-84.033753	Lick Creek
No	37.064783	-84.033807	Lick Creek

No	37.064016	-84.033824	Lick Creek
No	37.064836	-84.033885	Lick Creek
No	37.063776	-84.033952	Lick Creek
No	37.064633	-84.033960	Lick Creek
No	37.063926	-84.034009	Lick Creek
No	37.065379	-84.034509	Locke Branch
No	37.064905	-84.034515	Locke Branch
No	37.064327	-84.034652	Locke Branch
No	37.065310	-84.034706	Locke Branch
No	37.063880	-84.034828	Locke Branch
No	37.063870	-84.034966	Locke Branch

SECTION V -- IF THE PERMITTED SITE DISCHARGES TO A MS4 THE FOLLOWING INFORMATION IS REQUIRED 

List all MS4 Discharge Points
Latitude in decimal degrees. Format must be between 36.490000 and 39.150000, with a minimum of 5 decimal points of accuracy.
Longitude in decimal degrees. Format must be between -89.580000 and -81.960000, with a minimum of 5 decimal points of accuracy.

Name of MS4:

Date of application/ notification to the MS4 for construction site permit coverage:

Date

Discharge Point(s):(*)

Latitude

Longitude

SECTION VI -- WILL THE PROJECT REQUIRE CONSTRUCTION ACTIVITIES IN A WATER BODY OR THE RIPARIAN ZONE?

Will the project require construction activities in a water body or the riparian zone?:(*)	No
If Yes, describe scope of activity: (✓)	describe scope of activity
Is a Clean Water Act 404 permit required?:(*)	No
Is a Clean Water Act 401 Water Quality Certification required?:(*)	No

SECTION VII -- NOI PREPARER INFORMATION

First Name:(*) Joshua	M.I.: J	Last Name:(*) Higgins	Company Name:(*) Kentucky Transportation Cabinet - District 1:
Mailing Address:(*) 603 Railroad Ave.	City:(*) Manchester	State:(*) Kentucky	Zip:(*) 40962
eMail Address:(*) joshuaj.higgins@ky.gov	Business Phone:(*) 606-598-2145	Alternate Phone: Phone	

SECTION VIII -- ATTACHMENTS

Facility Location Map:(*)	Upload file
Supplemental Information:	Upload file

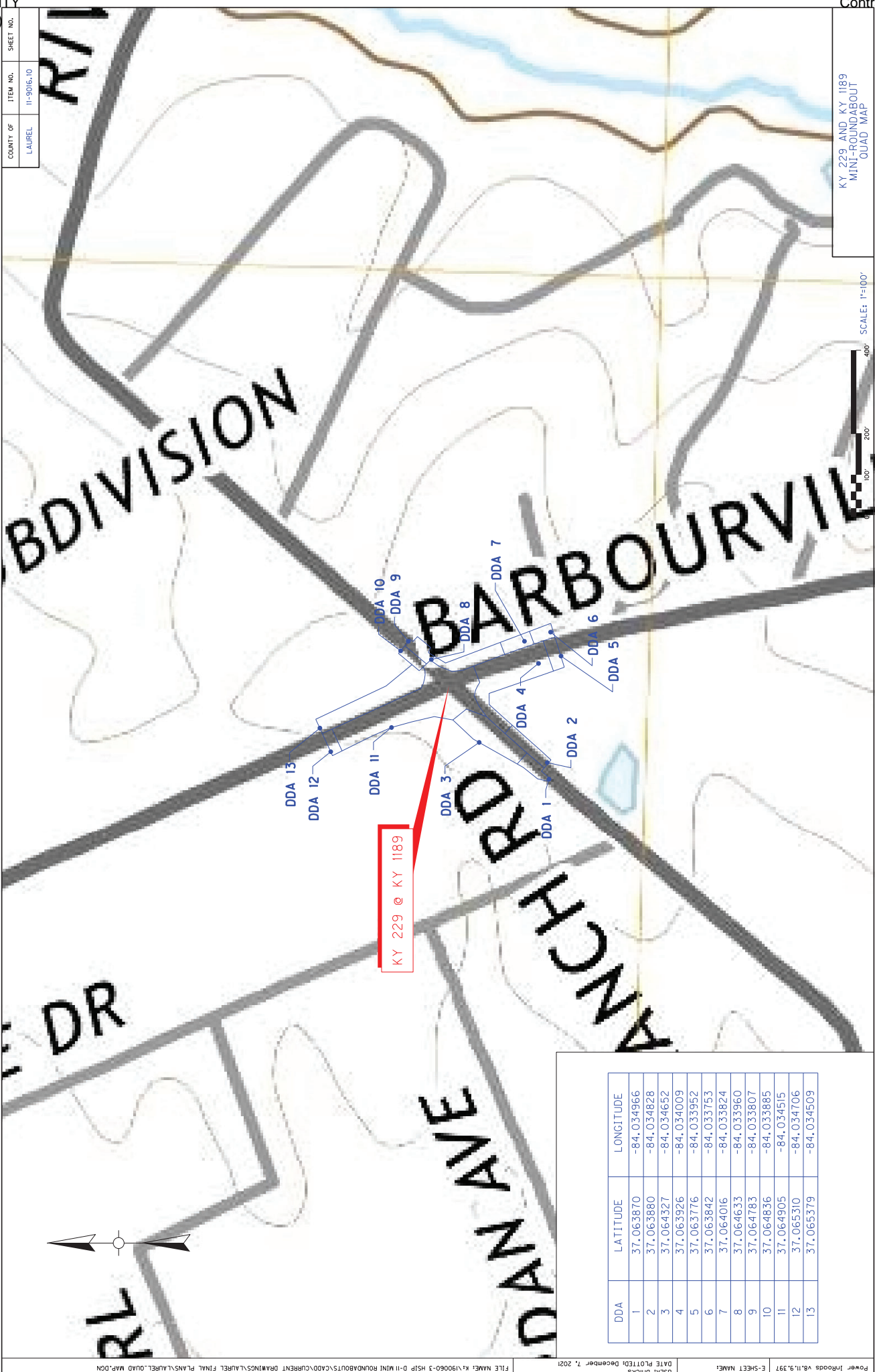
SECTION IX -- CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:(*) Chris J. Jones	Title:(*) Chief District Engineer	
First Name:(*) Chris	M.I.: J	Last Name:(*) Jones

eMail Address:(*) <input type="text" value="chrisj.jones@ky.gov"/>	Business Phone:(*) <input type="text" value="606-598-2145"/>	Alternate Phone: <input type="text" value="Phone"/>	Signature Date:(*) <input type="text" value="2/14/2022"/>
<p>Click to Save Values for Future Retrieval</p> <p>Click to Submit to EEC</p>			

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-5016.10	



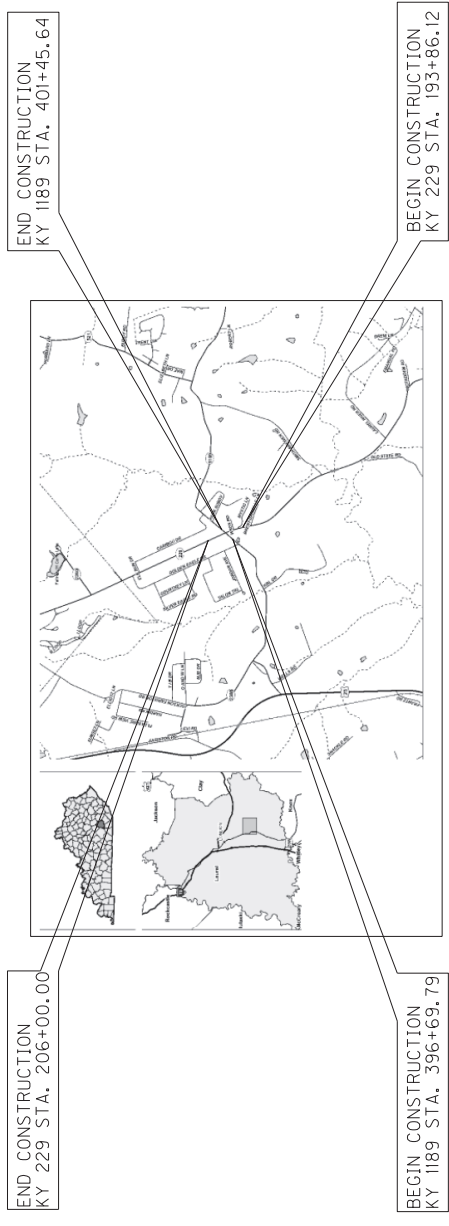
KY 229 @ KY 1189

DDA	LATITUDE	LONGITUDE
1	37.063870	-84.034966
2	37.063880	-84.034828
3	37.064327	-84.034652
4	37.063926	-84.034009
5	37.063776	-84.033952
6	37.063842	-84.033753
7	37.064016	-84.033824
8	37.064633	-84.033960
9	37.064783	-84.033807
10	37.064836	-84.033885
11	37.064905	-84.034515
12	37.065310	-84.034706
13	37.065379	-84.034509

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	RI

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

PLANS OF PROPOSED PROJECT KY 229 & KY 1189 INTERSECTION MINI-ROUNDABOUT INSTALLATION CITY OF LONDON, KENTUCKY



Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
LAUREL

ITEM NO. 11-9016.10
PROJECT NUMBER _____
LETTING DATE: _____
RECOMMENDED BY: _____ PROJECT MANAGER _____ DATE: _____
PLAN APPROVED BY: _____ STATE HIGHWAY ENGINEER _____ DATE: 5/24/2022

LAYOUT MAP

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
RI	LAYOUT SHEET
R2-AR2B	TYPICAL SECTIONS
R2D	PAVING SUMMARY
R2E	LEGEND AND UTILITY OWNERS
R3-R12	RIGHT OF WAY STRIP MAP & SUMMARY
R4-R7	PAVEMENT DETAIL SHEETS
R20-R9	FLUME & CURB CUT DETAILS
R21-R22	PAVEMENT MARKING DETAILS
T00	SIGNING AND STRIPING SUMMARY
T00S-1006	SIGNING DETAIL SHEETS - PLAN SHEETS
T01-T02	SHEETING SIGN SUMMARY SHEETS
X1-X54	CROSS SECTION SHEETS

SHEETS NOT INCLUDED IN TOTAL SHEETS

STANDARD DRAWINGS

NUMBER	DESCRIPTION
R0X-200-03	ROADWAY
R0X-220-05	ROADWAY
R0X-230-01	ROADWAY
R0X-000-06	ROADWAY
R0X-100-11	ROADWAY
R0X-150-08	ROADWAY
R11-100-05	ROADWAY

DESIGN CRITERIA

CLASS OF HIGHWAY MAJOR (229)/MINOR (1189) COLLECTOR
TYPE OF TERRAIN LEVEL
DESIGN SPEED 35 MPH/25 MPH
REQUIRED NFSO _____
REQUIRED PSD _____
LEVEL OF SERVICE _____
ADT KY 229 (2017/2019) 7187 (NORTH)/4275 (SOUTH)
ADT KY 1189 (2017/2018) 2288 (WEST)/7172 (EAST)
D % _____
T % 5.5052 (KY 229)/5.6752 (KY 1189)

GEOGRAPHIC COORDINATES

LATITUDE 37 DEGREES 03 MINUTES 52 SECONDS NORTH
LONGITUDE 84 DEGREES 02 MINUTES 03 SECONDS WEST

DESIGNED

2. RESTRICTED 50
LEVEL OF SERVICE _____
MAX. DISTANCE W/O PASSING _____

KY 229
LENGTH - L229 - LIN. FT. _____ MILES _____
FOR EDILITIES INCLUDED _____
FOR EDILITIES NOT INCLUDED _____
RAILROAD CROSSINGS NO. _____
BRIDGES _____

KY 1189
LENGTH - L1189 - LIN. FT. _____ MILES _____
FOR EDILITIES INCLUDED _____
FOR EDILITIES NOT INCLUDED _____
RAILROAD CROSSINGS NO. _____
BRIDGES _____

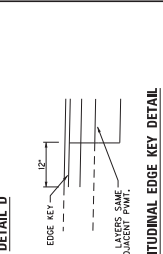
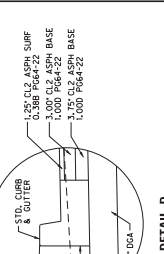
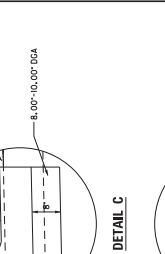
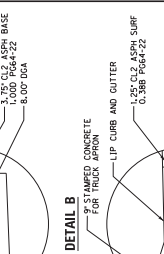
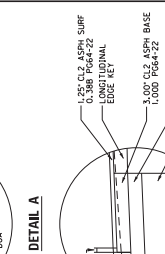
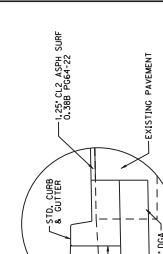
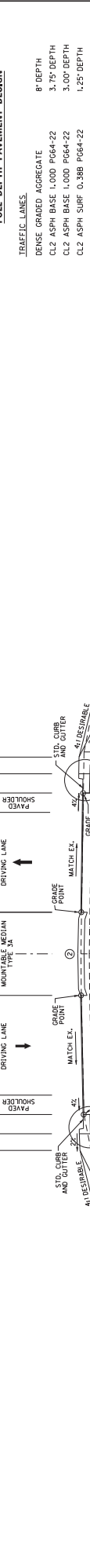
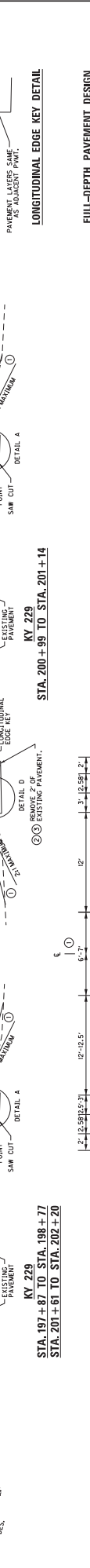
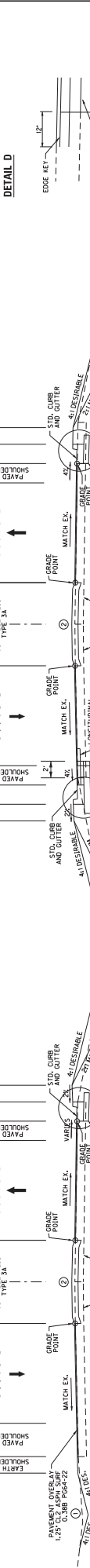
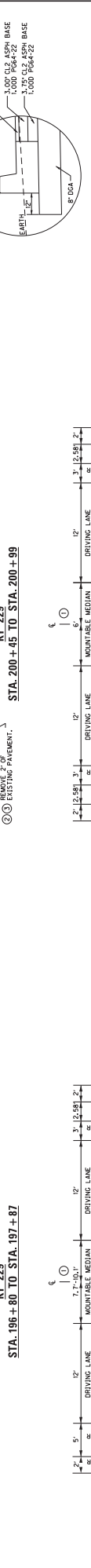
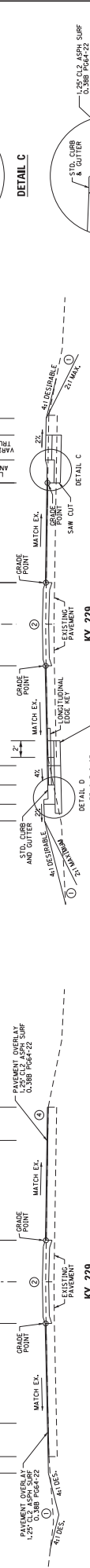
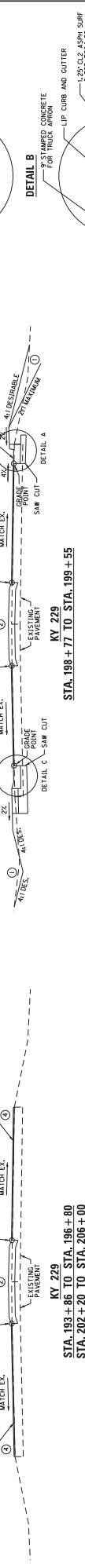
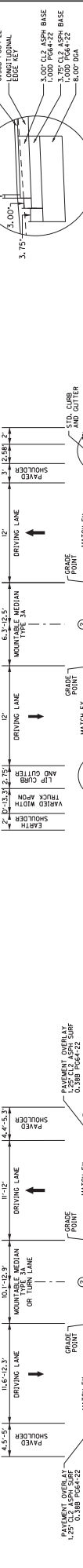
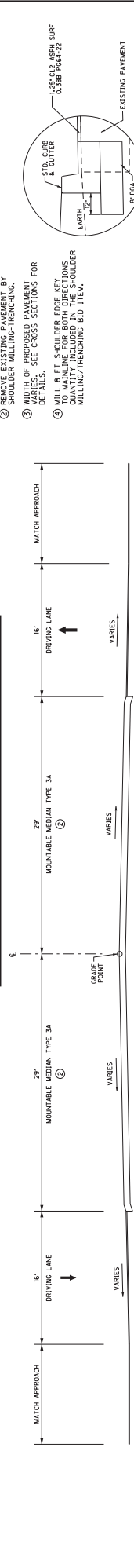
KY 229
LENGTH - L229 - LIN. FT. _____ MILES _____
FOR EDILITIES INCLUDED _____
FOR EDILITIES NOT INCLUDED _____
RAILROAD CROSSINGS NO. _____
BRIDGES _____

KY 1189
LENGTH - L1189 - LIN. FT. _____ MILES _____
FOR EDILITIES INCLUDED _____
FOR EDILITIES NOT INCLUDED _____
RAILROAD CROSSINGS NO. _____
BRIDGES _____

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	82

- NOTES**
- SEE CROSS SECTIONS FOR FINAL SLOPES.
 - REMOVE EXISTING PAVEMENT BY SHOULDER MILLING-TRENCHING.
 - WIDTH OF PROPOSED PAVEMENT BY SHOULDER MILLING-TRENCHING. SEE CROSS SECTIONS FOR DETAILS.
 - MILL 8 FT. SHOULDER EDGE KEY TO MAINLINE FOR BOTH DIRECTIONS MILLING/TRENCHING BID ITEM.

TYPICAL SECTIONS



LONGITUDINAL EDGE KEY DETAIL

FULL-DEPTH PAVEMENT DESIGN

TRAFFIC LINES	8" DEPTH
DENSE GRADED AGGREGATE	3.75" DEPTH
CL2 ASPH BASE 1.000 PG64-22	3.00" DEPTH
CL2 ASPH SURF 0.388 PG64-22	1.25" DEPTH

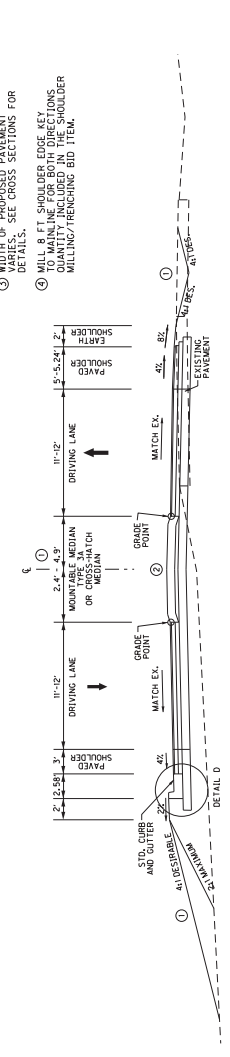
KY 229 AND KY 1189
MINI-ROUNDABOUT
TYPICAL SECTIONS

SCALE: NTS

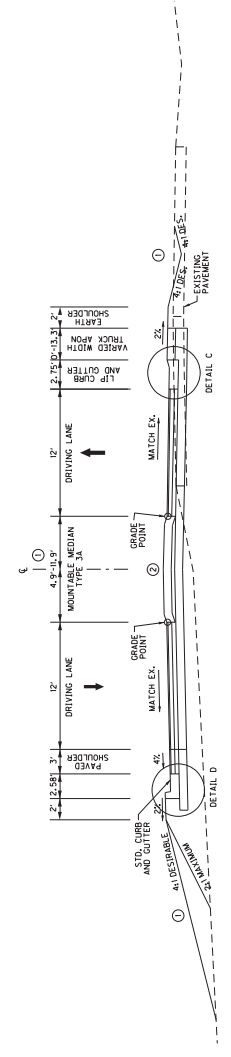
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R2A

TYPICAL SECTIONS

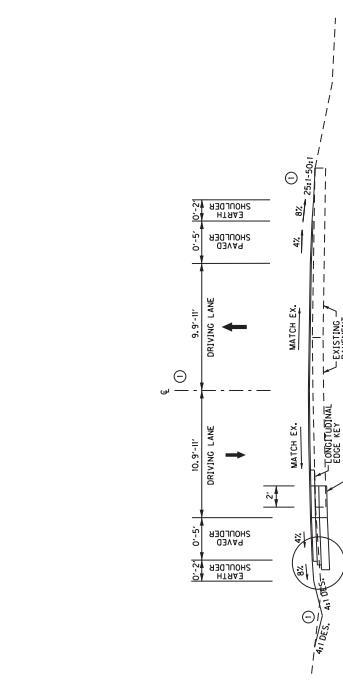
- NOTES:**
- SEE CROSS SECTIONS FOR FINAL SLOPES.
 - REMOVE EXISTING PAVEMENT BY SHOULDER MILLING-TRENCHING.
 - WIDTH OF PROPOSED PAVEMENT TO MAINLINE FOR BOTH DIRECTIONS SEE CROSS SECTIONS FOR DETAILS.
 - MILL 8 FT. SHOULDER EDGE KEY TO MAINLINE FOR BOTH DIRECTIONS SEE CROSS SECTIONS FOR SHOULDER MILLING/TRENCHING BID ITEM.



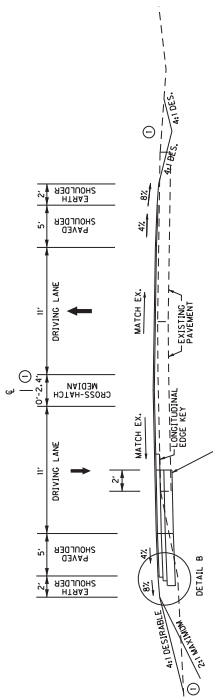
**KY 1189
STA. 398+62 TO STA. 399+21**



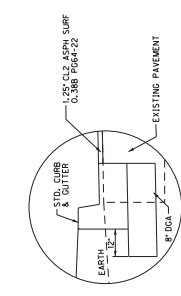
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STA. 399+21 TO STA. 399+55**



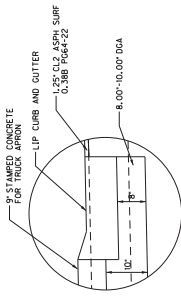
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STA. 396+96 TO STA. 398+18**



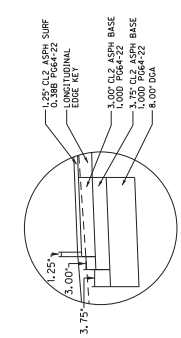
**KY 1189
STA. 398+18 TO STA. 398+62**



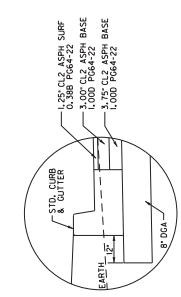
DETAIL A



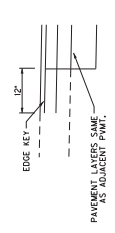
DETAIL C



DETAIL B



DETAIL D



LONGITUDINAL EDGE KEY DETAIL

FULL-DEPTH PAVEMENT DESIGN

TRAFFIC LANES	8" DEPTH
DENSE GRADED AGGREGATE	3.75" DEPTH
CL2 ASPH BASE L.000 PG64-22	3.00" DEPTH
CL2 ASPH SURF 0.388 PG64-22	1.25" DEPTH

KY 229 AND KY 1189
MINI-ROUNDABOUT
TYPICAL SECTIONS

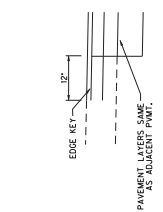
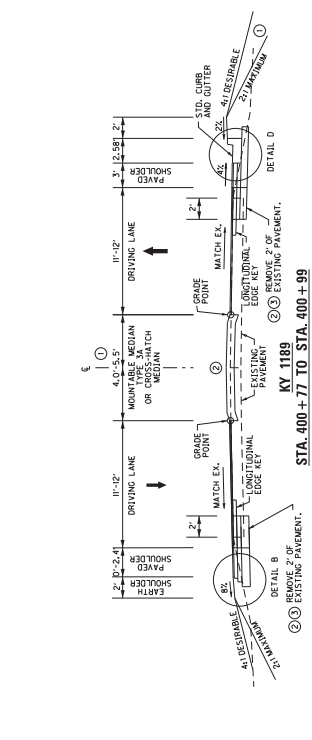
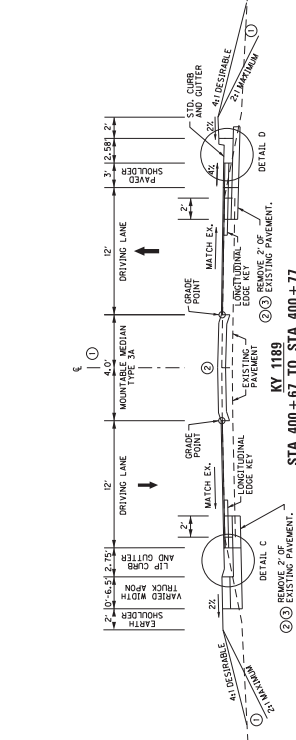
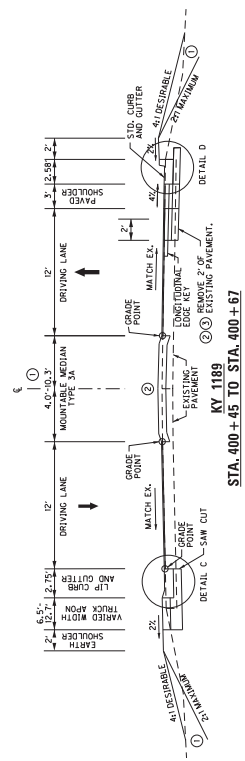
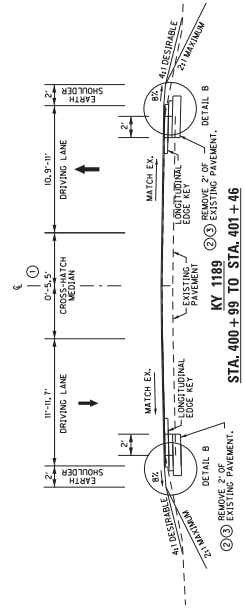
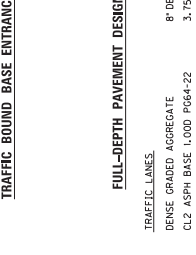
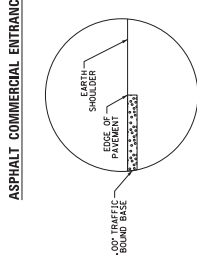
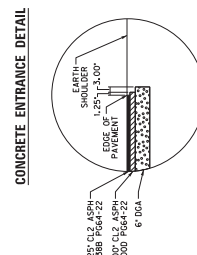
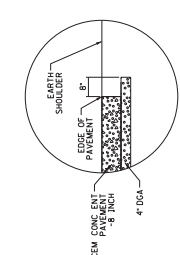
SCALE: NTS

TYPICAL SECTIONS

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R2B

- NOTES:**
- SEE CROSS SECTIONS FOR FINAL SLOPES.
 - REMOVE EXISTING PAVEMENT BY SHOULDER MILLING/TRENCHING.
 - WIDTH OF PROPOSED PAVEMENT TO MAINTAIN FOR BOTH DIRECTIONS OF TRAFFIC SHALL BE 10.0 FT. SHOULDER MILLING/TRENCHING BID ITEM.

- ENTRANCE PAVEMENT DESIGN**
- CONCRETE ENTRANCE
 - DENSE GRADED AGGREGATE 4" DEPTH
 - CEM CONC INT' PAVEMENT 8" DEPTH
 - ASPHALT COMMERCIAL ENTRANCE
 - DENSE GRADED AGGREGATE 4" DEPTH
 - CL2 ASPH BASE 1.000 PG64-22 3" DEPTH
 - CL2 ASPH SURF 0.388 PG64-22 1.25" DEPTH
 - GRAVEL ENTRANCE
 - TRAFFIC BOUND BASE 4" DEPTH



SCALE: NTS

KY 229 AND KY 1189
MINI-ROUNDABOUT
TYPICAL SECTIONS

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	TOTAL PROJECT
1	DOA BASE	TON	1,005
20	TRAFFIC ROUND BASE	TON	15
78	CROSSED AGGREGATE SIZE NO 2	TON	196
190	LEVEL & WEDGING PG64-22	TON	110
212	CL2 ASPH BASE 1,000 PG64-22	TON	412
307	CL2 ASPH SUPR 0.38B PG64-22	TON	460
356	ASPHALT MATERIAL FOR TACK	TON	3.9
441	ENTRANCE PIPE-18 IN	LF	70
1310	REMOVE PIPE	LF	63
1689	FLUME INLET TYPE 1 MOD	EACH	2
1810	STANDARD CURB AND GUTTER	LF	655
1820	LIP CURB AND GUTTER	LF	279
1947	MOUNTABLE MEDIAN TYPE 3A (STAMPED & DYED)	SOVD	651
2101	CEM CONC ENT PAVEMENT-8 IN	SOVD	142
2159	TEMP DITCH	LF	845
2160	CLEAN TEMP DITCH	LF	423
2220	ROADWAY EXCAVATION	CUYD	462
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	8
2432	WITNESS POST	EACH	8
2483	CHANNEL LINING CLASS II	TON	9
2945	CLEARING AND GRUBBING	LS	1
2946	TEMPORARY SIGNS	SOFT	274
2949	DEMOLITION	LS	1
2949	EDGE KEY	LF	131
2602	FABRIC-GEOTEXTILE CLASS 1	SOVD	942
2650	MAINTAIN & CONTROL TRAFFIC	LS	1
2871	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2701	TEMP SILT FENCE	LF	845
2703	SILT TRAP TYPE A	EACH	2
2704	SILT TRAP TYPE B	EACH	2
2705	SILT TRAP TYPE C	EACH	2
2706	CLEAN SILT TRAP TYPE A	EACH	2
2707	CLEAN SILT TRAP TYPE B	EACH	2
2708	CLEAN SILT TRAP TYPE C	EACH	2
2726	STARTING	LS	1
3225	TUBULAR MARKERS (PEXCO CITY POST EMBEDDED ANCHOR CUP)	EACH	12
5990	EROSION CONTROL BLANKET	SOVD	251

ITEM	DESCRIPTION	UNIT	TOTAL PROJECT
5952	TEMP MULCH	SOVD	6,227
5953	TEMP SEEDING AND PROTECTION	SOVD	4,670
5963	INITIAL FERTILIZER	TON	0.1
5964	MAINTENANCE FERTILIZER	TON	0.1
5985	SEEDING & PROTECTION	SOVD	1,178
5992	AGRICULTURAL LIMESTONE	TON	0.9
6406	58# ALUM SHEET SIGNS-080 IN	SOFT	200
6407	58# ALUM SHEET SIGNS-125 IN	SOFT	13
6410	STEEL POST TYPE 1	LF	296
6490	CLASS A CONCRETE FOR SIGNS	CUYD	2
6510	PAVE STRIPING-TEMP PAINT-4 IN	LF	6,650
6542	PAVE STRIPING-THERMO-6 IN W	LF	3,182
6543	PAVE STRIPING-THERMO-12 IN W (OPTICAL SPEED BARS)	LF	5,106
6546	PAVE MARKING-THERMO CROSS-HATCH	LF	264
6569	PAVE MARKING-THERMO CURV ARROW	SOFT	1,866
6574	PAVE MARKING-THERMO CURV ARROW	EACH	10
6575	PAVE MARKING-THERMO CURB ARROW (SPECIAL - FISH HOOK)	EACH	4
20430ED	SAW CUT	LF	540
20748ED	SHOULDER MILLING/RECKING	SOVD	2,064
21289ED	LONGITUDINAL EDGE KEY	LF	1,095
21373ND	REMOVE SIGN	EACH	6
21596ND	GNSS TYPE D (SURFACE MOUNT)	EACH	8
21813NN	REMOVE AND RELOCATE SHEET SIGNS	EACH	1
22520EN	PAVE MARKING-YIELD BAR-36 IN	LF	44
22970EN	ROADWAY EXCAVATION-SPECIAL	CUYD	145
23379EC	STAMPED CONCRETE TRUCK ARROW, STAMPED & DYED	SOVD	186
24097EC	THERMO RUBBLE STRIPS TY 2	LF	108
24632EC	BARCODE SIGN INVENTORY	EACH	68
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN (WHITE)	LF	92
24955ED	REMOVE SIGNAL EQUIPMENT	EACH	1

NOTES

- 1 INCLUDES THE FLASHING BEACONS AND SUPPORTING POLES AT THE INTERSECTION OF KY 229 AND KY 189.
- 2 QUANTITY CARRIED OVER FROM PAVING SUMMARY.
- 3 QUANTITY CARRIED OVER FROM SIGNING SUMMARY.
- 4 QUANTITY CARRIED OVER FROM STRIPING SUMMARY.
- 5 STAMPED AND DYED MOUNTABLE MEDIAN TYPE 3A IS TO BE AS FOLLOWS:
ENGINEER VIA RED-249C (RC-282) INTERSTATIONOR EQUIVALENT COLOR AS APPROVED BY SECTION ENGINEER. COLOR TO BE APPLIED THROUGHOUT CONCRETE, NOT FINISHES. APPLICATION, FINISHES AND STRIPING SHALL BE INCIDENTAL TO THE MOUNTABLE MEDIAN TYPE 3A.
- 6 PRE-CONSTRUCTION MOCK-UP 1 MOCK-UP A MINIMUM OF THREE (3) FEET BY 8 FEET TO BE SUBMITTED FOR APPROVAL BY THE ENGINEER PRIOR TO ANY MEDIAN CONSTRUCTION. THE MOCK-UP SHALL BE USED TO VERIFY THE APPROVED COLOR AND STANDARD OF ACCEPTANCE FOR ALL ADDITIONAL WORK. THE COST OF THIS MOCK-UP SHALL BE INCLUDED IN THE PRICE BID FOR MOUNTABLE MEDIAN TYPE 3A.
- 7 250 TONS OF ADDITIONAL DOA HAVE BEEN INCLUDED FOR POTENTIAL LEVEL & WEDGING REQUIRED FOR MAINTENANCE OF TRAFFIC.
- 8 APPROXIMATELY 0.4 ACRES.
- 9 TO BE PEXCO CITY POSTS, 28 INCHES TALL, YELLOW POSTS, WITH DOUBLE YELLOW REFLECTIVE STRIPING, WITH THE EAC BASE, AND THE STANDARD CITY POST TOP.
- 10 A QUANTITY OF CRUSHED AGGREGATE SIZE NO. 2, FABRIC-GEOTEXTILE CLASS I, AND ROADWAY EXCAVATION-SPECIAL HAVE BEEN INCLUDED TO BE USED AT THE DISCRETION OF THE ENGINEER UNDER CONTRACTING AND SHALL BE INCLUDED IN THE BIDDING OR UNBIDDED MATERIAL TENDON IN COT MATERIALS.

KY 229 AND KY 189
MINI-ROUNDABOUT
GENERAL SUMMARY

COUNT OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R2C

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R20

PAVING AREAS

ITEM	KY 229			KY 1189			ENTRANCES			TOTAL PROJECT		
	S	Q	U	A	R	E	Y	A	R	D	S	
4" DGA BASE	-	-	-	-	-	-	232	-	-	-	232	
8" DGA BASE	495	-	-	756	-	-	-	-	-	-	1,251	
10" DGA BASE	144	-	-	69	-	-	-	-	-	-	213	
4" TRAFFIC BOUND BASE	-	-	-	-	-	-	63	-	-	-	63	
LEVEL & WEDGING PG64-22	③	-	-	③	-	-	-	-	-	-	③	
3.00" CL2 ASPH BASE 1.00D PG64-22	516	-	-	708	-	-	90	-	-	-	1,314	
3.75" CL2 ASPH BASE 1.00D PG64-22	288	-	-	648	-	-	-	-	-	-	936	
1.25" CL2 ASPH SURF 0.38B PG64-22	5,459	-	-	1,113	-	-	90	-	-	-	6,662	
ASPHALT MATERIAL FOR TACK	6,263	-	-	2,469	-	-	180	-	-	-	8,912	
CEM CONC ENT PAVEMENT-8 IN	-	-	-	-	-	-	142	-	-	-	142	
SHOULDER MILLING/TRENCHING	1,863	-	-	201	-	-	-	-	-	-	2,064	

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.
 - ② ESTIMATED AT 0.84 LBS. PER SQ. YD.
 - ③ CALCULATED USING THE AVERAGE END AREA METHOD.

PAVING SUMMARY

ITEM	DESCRIPTION	UNIT	KY 229	KY 1189	ENTRANCES	TOTAL PROJECT
1	DGA BASE	TON	311	388	56	755
20	TRAFFIC BOUND BASE	TON	-	-	15	15
190	LEVEL & WEDGING PG64-22	TON	90	20	-	110
212	CL2 ASPH BASE 1.00D PG64-22	TON	146	251	15	412
307	CL2 ASPH SURF 0.38B PG64-22	TON	376	77	7	460
356	ASPHALT MATERIAL FOR TACK	TON	2.7	1.1	0.1	3.9
2101	CEM CONC ENT PAVEMENT-8 IN	SOYD	-	-	142	142
20748D	SHOULDER MILLING/TRENCHING	SOYD	1,863	201	-	2,064

KY 229 AND KY 1189
MINI-ROUNDABOUT
PAVING SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R2E

EROSION CONTROL NOTES

IF A SILT BASIN IS NOT USED THEN ONE SILT TRAP TYPE A, ALTERNATE NUMBER 2 OR SILT TRAP TYPE B SHALL ALWAYS BE PLACED AT THE MOST REMOTE POINT OF THE CONSTRUCTION SITE. THE SILT TRAP SHALL BE PLACED AT THE MOST REMOTE POINT OF THE CONSTRUCTION SITE, WHERE OVERLAND FLOW EXIST, STREAM OR ONTO AN ADJACENT PROPERTY OWNER, WHERE OVERLAND FLOW EXIST, AND BE DIVERTED TO ONE OF THE ADJACENT SILT BASIN OR TRAPS. THE EROSION CONTROL PLANS DO NOT CONSTITUTE A BMP BY THEMSELVES. THEY PROVIDE A STARTING POINT FOR THE CONTRACTOR AND SECTION ENGINEER TO DEVELOP A BMP FOR ROADWAY AND BRIDGE CONSTRUCTION AND THE SUPPLEMENTAL SPECS EFFECTIVE WITH THE OCTOBER, 2004 LETTING.

EROSION CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONING PRIOR TO ANY EXCAVATION OR DISTURBANCE WITHIN A DRAINAGE AREA.

THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) PROPERLY DISPOSE OF THE MATERIAL AT SITES APPROVED BY THE SECTION ENGINEER.

EROSION CONTROL MEASURES EMPLOYED BY THE CONTRACTOR WILL BE UNIQUE TO THE PROJECT AND THE DEVELOPMENT AND UTILIZATION OF THESE MEASURES WILL BE RECORDED AS PART OF THE BMP, KEPT ON SITE, AND AVAILABLE FOR PUBLIC INSPECTION.

NOTIFICATION OF ANY EROSION CONTROL MEASURES OR OTHER SOIL DISTURBANCE ACTIVITIES SHALL BE PROVIDED TO THE KYTC AND THE KYTC SHALL BE ADVISED BY THE CONTRACTOR OF THE DEVELOPMENT AND UTILIZATION OF THESE MEASURES WILL BE KEPT ON SITE, AND AVAILABLE FOR PUBLIC INSPECTION.

ALL SILT CONTROL DEVICES SHALL BE SIZED TO RETAIN A VOLUME OF 3,600 CUBIC FEET PER DISTURBED CONTRIBUTING ACRE.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO MINIMIZE THE AMOUNT OF SILT CONTROL DEVICES THAT WILL BE REQUIRED TO BE INSTALLED. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS MAY BE ADDED OR REMOVED AS NECESSARY TO MAINTAIN THE VOLUME NECESSARY TO CONTROL SEDIMENT. VOLUME AT EACH ADDED SILT TRAP SHALL BE COMPUTED AS UP GRADIENT OF THE UNDISTURBED AREAS BEHIND THE TRAP. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION. SILT TRAP VOLUME AT EACH SILT TRAP MAY BE REDUCED BY THE FOLLOWING AMOUNTS:

- UP GRADIENT AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL MEASURES.
- THE USE OF TEMPORARY MULCH IS ENCOURAGED.
- AREAS PROTECTED BY SILT FENCE SHALL BE COMPUTED AT A MAXIMUM RATE OF 10% OF THE TOTAL VOLUME.
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (AGRESS).

THE EROSION CONTROL PLAN SHALL BE ANNOTATED AS THE WORK PROCEEDS BY THE CONTRACTOR TO DETAIL THE SELECTION OF EACH EROSION CONTROL MEASURE. THE VOLUME OF EACH EROSION CONTROL MEASURE SHALL BE RECORDED IN THE DOCUMENTATION PROCEDURES ESTABLISHED BY THE DIVISION OF CONSTRUCTION.

GENERAL NOTES

SPRINKLERS
IF A SPRINKLER IS DAMAGED DURING WORK, THE CONTRACTOR SHALL REPLACE THE SPRINKLER WITH A NEW ONE OF THE SAME TYPE AND SIZE. THE CONTRACTOR SHALL PLACE THE SALVAGED SPRINKLER HEAD IN A WOODEN STAKE FOR THE PROPERTY OWNER USE. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED SPRINKLER SYSTEMS. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED SPRINKLER SYSTEMS. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

TRAFFIC CONTROL
PROVIDE CONTROL DEVICES IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CONTROL DEVICES. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

TREES
PROTECT TREES TO REMAIN FROM DAMAGE DURING CONSTRUCTION.

UTILITIES
THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THE PLANS AND THE KYTC SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATIONS FROM THE LOCATIONS SHOWN. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN A MANNER THAT WILL NOT DISTURB UTILITIES DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

HAZARDOUS OR FLAMMABLE MATERIALS
THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS AND TO AVOID THE PRESENCE OF A GAS LINE OR OTHER LINES CARRYING HAZARDOUS MATERIAL.

REMOVED MATERIALS
ALL REMOVED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR. CLEAN UP AND DISPOSE OF ALL EXCESS MATERIALS OFF SITE AT A LOCATION REGULATIONS OR AT AN ON SITE LOCATION DESIGNATED BY THE OWNER.

SIGNS
ALL SIGNS SHALL BE INSTALLED, REMOVED AND/OR SALVAGED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL SIGNS SHALL BE INSTALLED, REMOVED AND/OR SALVAGED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL SIGNS SHALL BE INSTALLED, REMOVED AND/OR SALVAGED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

PROPERTY OWNERS
PROPERTY OWNERS' NAMES, WHERE SHOWN ON THE PLANS, ARE FOR INFORMATION ONLY AND THEIR ACCURACY IS NOT GUARANTEED.

HAZARDOUS MATERIALS NOTE
SHOULD SUSPECT PETROLEUM CONTAMINATED SOILS BE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL DISPOSE OF SUCH MATERIALS AT A LOCATION DESIGNATED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH US/HAZMAT STATEWIDE CONTRACTOR TO ASSIST THE REMOVAL/DISPOSAL OF CONTAMINATED MATERIAL. THE CONTRACTOR MAY CONTACT US/HAZMAT STATEWIDE CONTRACTOR FOR ASSISTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED MATERIALS. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

CLEANING PAVEMENT
BEFORE PLACING ANY HMA MIXTURE, THE SURFACE OF THE EXISTING PAVEMENT SHALL BE THOROUGHLY CLEANED OF ALL DEBRIS AND DIRT. THIS WILL BE CONSIDERED INCIDENTAL TO ASPHALT SURFACING OPERATIONS.

DEBRAY APPROACHES
MINOR GRADING OF DRIVEWAYS, APPROACHES, AND ALL SAW CUTS REQUIRED SEPARATELY.

LANDSCAPING
PROTECT ALL EXISTING LANDSCAPING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED LANDSCAPING. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

PARKING SPACES
UNLESS APPROVED BY US, PROTECT PARKING SPACES FROM CONSTRUCTION EQUIPMENT, OR STOCKPILE MATERIALS.

OMISSIONS
THE INFORMATION CONTAINED ON THESE DRAWINGS PERTAINING TO EXISTING CONDITIONS, SUCH AS BUT NOT LIMITED TO UTILITIES, TOPOGRAPHY, AND EROSION CONTROL MEASURES, IS NOT GUARANTEED. THE USE OF THIS INFORMATION DOES NOT PROVIDE RELIEF FOR ANY RESPONSIBILITY FOR DAMAGES DUE TO ANY INACCURACIES.

OPEN EXCAVATIONS
THE CONTRACTOR SHALL PROTECT EXCAVATION SITES WITH SIGNS AND SAFETY BARRIERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED EXCAVATION SITES. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

OBSTRUCTIONS
ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED OBSTRUCTIONS. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

PERMANENT TRAFFIC SIGNS
THE CONTRACTOR SHALL PROVIDE THE KYTC AND THE CITY OF LONDON WITH PERMANENT TRAFFIC SIGNS.

PLAIN DISCREPANCIES
REFER PLAIN DISCREPANCIES TO THE ENGINEER FOR CLARIFICATION.

BEFORE YOU DIG
THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-722-6007 TO REACH KY 811, AND TO OBTAIN A UTILITY LOCATING SERVICE (ULS) REPORT PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITY LOCATING SERVICE (ULS) REPORTS. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

CONTROL OF WORK
THE RIGHT IS RESERVED BY THE DEPARTMENT TO HAVE OTHER WORK PERFORMED BY OTHER CONTRACTORS AND BY ITS OWN FORCES AND TO PERMIT PUBLIC UTILITY WORK TO PROCEED WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AND COOPERATE WITH SUCH OTHER PARTIES SO THAT INTERFERENCE IS KEPT TO A MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED WORK PERFORMED BY OTHER CONTRACTORS AND BY ITS OWN FORCES AND TO PERMIT PUBLIC UTILITY WORK TO PROCEED WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AND COOPERATE WITH SUCH OTHER PARTIES SO THAT INTERFERENCE IS KEPT TO A MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED WORK PERFORMED BY OTHER CONTRACTORS AND BY ITS OWN FORCES AND TO PERMIT PUBLIC UTILITY WORK TO PROCEED WITHIN THE LIMITS OF THE PROJECT.

STANDARD DRAWINGS
STANDARD DRAWINGS ARE SUPPLEMENTED BY THE STANDARD DRAWINGS SUPPLEMENT BOOK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED STANDARD DRAWINGS SUPPLEMENT BOOKS. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

ASPHALT PAVEMENT RIDE QUALITY
PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY 'B' SHALL APPLY.

DEMOLITION
THE BIDDING BID ON THIS PROJECT SHALL INCLUDE PAYMENT IN FULL FOR DEMOLITION.

PIPE AND DRAINAGE STRUCTURE REMOVAL
UNLESS OTHERWISE SPECIFIED IN THE PLANS, ALL EXISTING PIPE AND DRAINAGE STRUCTURES SHALL BE REMOVED AND REPLACED WITH NEW PIPE AND DRAINAGE STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED PIPE AND DRAINAGE STRUCTURES. THE RESPONSIBILITY OF THE PROPERTY OWNER IS TO MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.

UPSTREAM PIPE INSPECTION
PIPE INSPECTION SHALL BE PERFORMED 90 DAYS PRIOR TO THE CONTRACTORS EXPECTED START DATE. ANY WORK DONE UNDER THE PROPOSED PAYMENT IS TO BE COMPLETED WITHIN THE NORMAL CONSTRUCTION PERIOD. ANY ADDITIONAL WORK SHALL BE COMPLETED WITHIN THE NORMAL CONSTRUCTION PERIOD. ANY ADDITIONAL WORK SHALL BE COMPLETED WITHIN THE NORMAL CONSTRUCTION PERIOD.

FILE NAME: K:\19060-3\HSIP 011-MINI ROUNDABOUTS\CAD\CURRENT DRAWINGS\LAUREL_FINAL.PLANS\W02E020A.DWG
DATE PLOTTED: May 24, 2022
USER: brichs
SHEET NAME: E-3
E-SHEET NO.: 11-9016.10
Power InRoads v8.11.937

KY 229 AND KY 1189 MINI-ROUNDABOUT GENERAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R2F

UTILITY OWNERS

CHARTER
LEE BOWLIN
105 W. THIRD STREET
CORBIN, KY 40701
606-271-2504
albert.l.bowlin@charter.com

WILLIAM CLARK
105 W. THIRD STREET
CORBIN, KY 40701
606-271-2504
William.Clark@charter.com

DELTA NATURAL GAS COMPANY
ROB NELLIPOWITZ
3617 LEXINGTON ROAD
CLINTON, KY 40301
859-742-6171 EXT 1057
rnellipowit@delnatgas.com

KU
DAVID LAUN
108 S. LEXINGTON ROAD
LOUISVILLE, KY 40241
606-864-2821
David.Laun@ge-ku.com

WINDSTREAM
TOMMY LEWIS
Tommy.Lewis@windstream.com

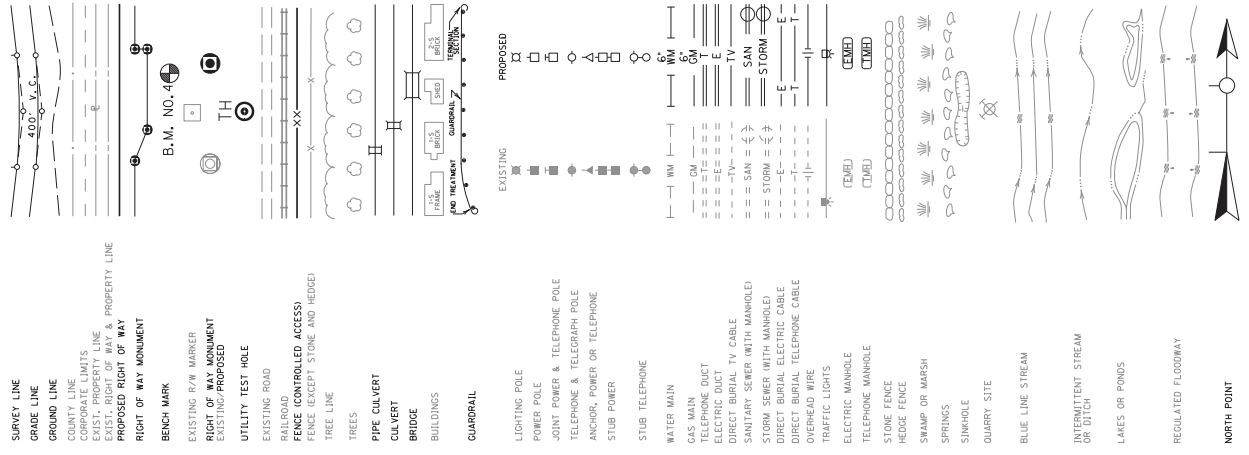
WOOD CREEK/EAST/WEST LAUREL WATER
JAY WILLIAMS
P.O. BOX 726
COLUMBIA, KY 40004
606-878-9420
JayWilliams@woodcreekwater.org

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6077 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 must coordinate with the utility owners, including those whom do not subscribe to KY 811. It is the contractor's responsibility to determine what utility companies have facilities in the area.

KY 229 AND KY 1189
MINI-ROUNDABOUT
LEGEND AND UTILITY OWNERS

CONVENTIONAL SIGNS



- SURVEY LINE
- GRADE LINE
- GROUND LINE
- COUNTY LINE
- CORPORATE LIMITS
- EXIST. PROPERTY LINE
- PROPOSED RIGHT OF WAY
- RIGHT OF WAY MONUMENT
- BENCH MARK
- EXISTING RAW MARKER
- RIGHT OF WAY MONUMENT
- EXISTING/PROPOSED
- UTILITY TEST HOLE
- EXISTING ROAD
- RAIL ROAD
- FENCE (CONTROLLED ACCESS)
- FENCE (EXCEPT STONE AND HEDGED)
- TREE LINE
- TREES
- PIPE CULVERT
- CULVERT
- BRIDGE
- BUILDINGS
- GUARDRAIL
- LIGHTING POLE
- POWER POLE
- JOINT POWER & TELEPHONE POLE
- TELEPHONE & TELEGRAPH POLE
- ANCHOR, POWER OR TELEPHONE
- STUB POWER
- STUB TELEPHONE
- WATER MAIN
- GAS MAIN
- TELEPHONE DUCT
- ELECTRIC DUCT
- DIRECT BURIAL TV CABLE
- DIRECT BURIAL TV CABLE
- SANITARY SEWER (WITH MANHOLE)
- STORM SEWER (WITH MANHOLE)
- DIRECT BURIAL ELECTRIC CABLE
- DIRECT BURIAL TELEPHONE CABLE
- OVERHEAD WIRE
- TRAFFIC LIGHTS
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- STONE FENCE
- HEDGE FENCE
- SWAMP OR MARSH
- SPRINGS
- SINKHOLE
- QUARRY SITE
- BLUE LINE STREAM
- INTERMITTENT STREAM OR DITCH
- LAKES OR PONDS
- REGULATED FLOODWAY
- NORTH POINT

COUNTY OF	LAUREL	ITEM NO.	11-9016.10	SHEET NO.	83
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SEE PAVEMENT DETAIL SHEET FOR MOUNTABLE
MEDIAN, CURB AND GUTTER, AND PAVEMENT RADII
DETAILS.

MATCHLINE
STA. 398+00 (SHEET R6)

MATCHLINE STA. 398+00 (SHEET R6)

MATCHLINE STA. 198+00 (SHEET R4)

DITCH CONSTRUCTION CHART					
SIDE	STA. TO STA.	DESCRIPTION	LINING	QUANTITY	D T
LT	196+80.00-197+15.74	SPL. "V" DITCH	EC BLANKET	24 SOYD	1.00 -
LT	197+80.00-198+00.00	SPL. "V" DITCH	EC BLANKET	16 SOYD	1.00 -
RT	197+90.00-198+00.00	SPL. "V" DITCH	EC BLANKET	7 SOYD	1.00 -

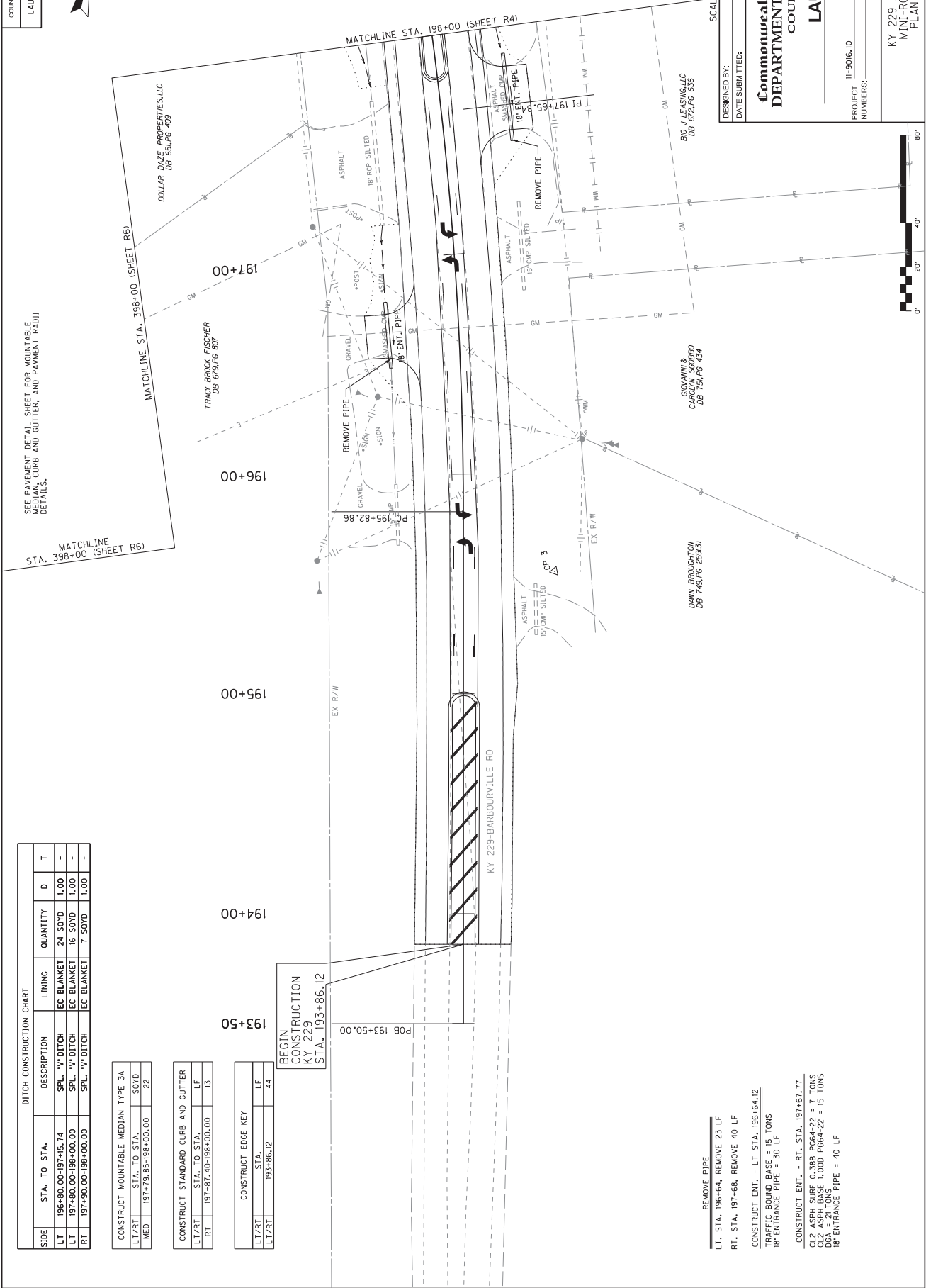
CONSTRUCT MOUNTABLE MEDIAN TYPE 3A		
LT/RT	STA. TO STA.	SOYD
MED	197+75.85-198+00.00	22

CONSTRUCT STANDARD CURB AND GUTTER		
LT/RT	STA. TO STA.	LF
RT	197+87.40-198+00.00	13

CONSTRUCT EDGE KEY		
LT/RT	STA.	LF
LT/RT	193+86.12	44

BEGIN
CONSTRUCTION
KY 229
STA. 193+86.12

POB 193+50.00



- REMOVE PIPE
LT. STA. 196+64, REMOVE 23 LF
RT. STA. 197+68, REMOVE 40 LF
- CONSTRUCT ENT. - LT STA. 196+64.12
TRAFFIC ROUND BASE = 15 TONS
18\"/>

DESIGNED BY:
DATE SUBMITTED:
SCALE: 1"=20'

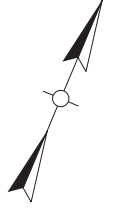
Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
LAUREL

PROJECT
NUMBERS:
11-9016.10

KY 229 AND KY 1189
MINI-ROUNDABOUT
PLAN SHEET 1



COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	84

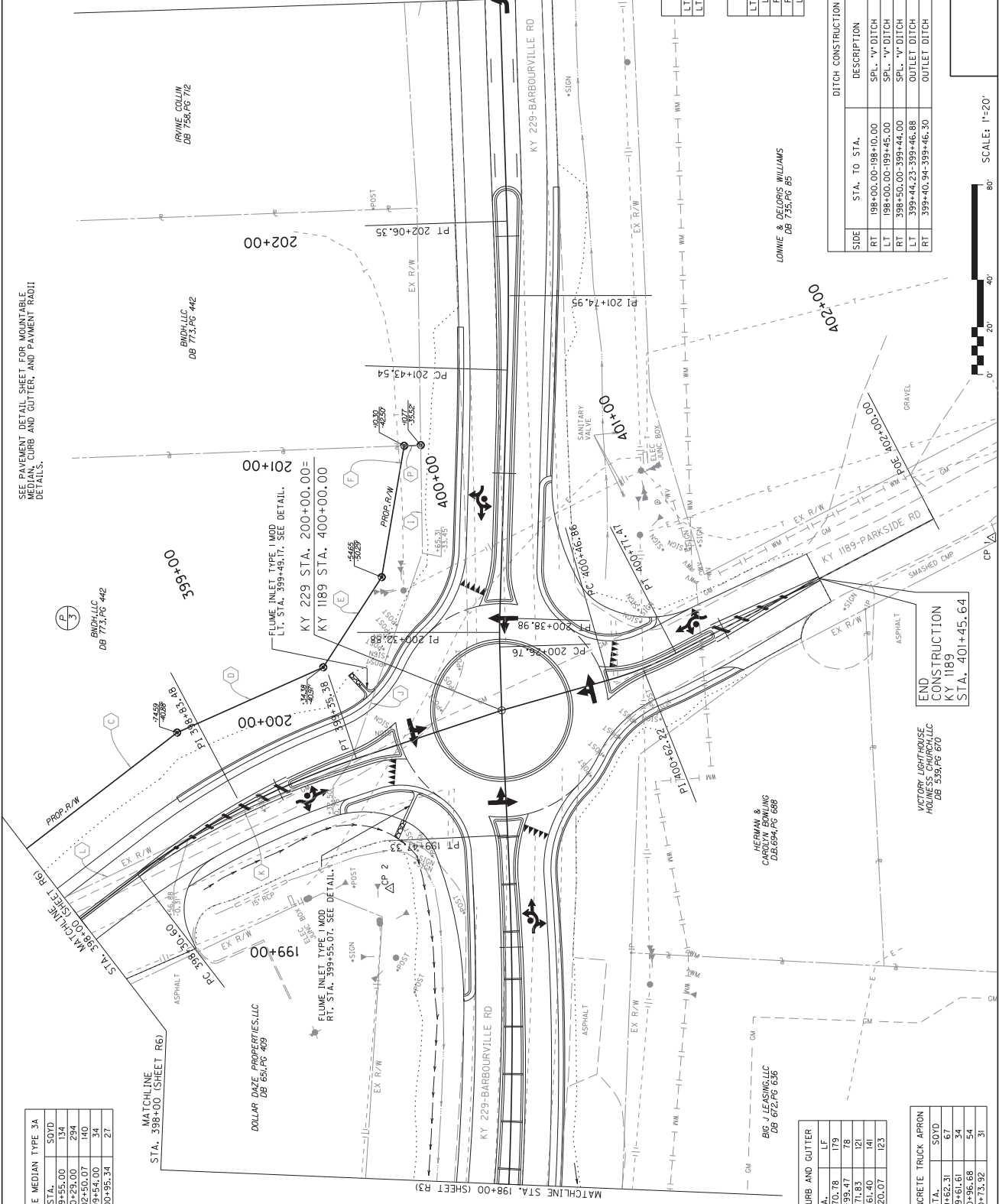


CONSTRUCT ENT. - RT STA. 398+13.99
CEM CONG ENT PAVEMENT-8 IN = 18 SOYD
DGA = 29 TONS

CONSTRUCT ENT. - RT STA. 401+4.85
CEM CONG ENT PAVEMENT-8 IN = 24 SOYD
DGA = 6 TONS

CONSTRUCT 6 IN CURB CUT (SEE DETAIL)
MED. STA. 198+06.47
MED. STA. 198+26.50
MED. STA. 198+46.55
MED. STA. 198+66.59
MED. STA. 198+86.55
MED. STA. 199+06.59
MED. STA. 199+26.59
MED. STA. 199+46.58

SEE PAVEMENT DETAIL SHEET FOR MOUNTABLE
MEDIAN, CURB AND GUTTER, AND PAVEMENT RADII
DETAILS.



CONSTRUCT MOUNTABLE MEDIAN TYPE 3A

LT/RT	STA. TO STA.	SOYD
MED	198+00.00-199+55.00	134
MED	199+71.00-200+29.00	294
MED	200+00.00-200+40.00	40
MED	399+04.00-399+54.00	30
MED	400+46.00-400+95.34	27

CONSTRUCT STANDARD CURB AND GUTTER

LT/RT	STA. TO STA.	LF
RT	198+00.00-199+70.78	179
RT	400+30.49-400+95.47	78
LT	398+61.75-398+71.83	121
LT	200+28.80-200+61.40	141
RT	200+99.01-202+20.07	123

CONSTRUCT STAMPED CONCRETE TRUCK APRON

LT/RT	STA. TO STA.	SOYD
LT	198+80.20-199+62.31	67
RT	399+23.72-399+61.61	34
RT	200+38.40-200+56.68	54
LT	400+38.61-400+73.92	31

CONSTRUCT EDGE KEY

LT/RT	STA.	LF
LT/RT	401+45.64	23

CONSTRUCT LIP CURB AND GUTTER

LT/RT	STA. TO STA.	LF
LT	198+77.41-199+64.48	94
RT	399+20.82-399+63.82	49
RT	200+35.82-200+99.43	92
LT	400+36.39-400+77.00	44

DITCH CONSTRUCTION CHART

SIDE	STA. TO STA.	DESCRIPTION	LINING	QUANTITY	D	T
RT	198+00.00-198+10.00	SPL. -V DITCH	EC BLANKET	7 SOYD	1.00	-
LT	198+00.00-199+44.00	SPL. -V DITCH	EC BLANKET	113 SOYD	1.00	-
RT	398+50.00-399+44.00	SPL. -V DITCH	EC BLANKET	84 SOYD	1.00	-
LT	399+44.23-399+46.88	OUTLET DITCH	CL II	4 TONS	1.00	1.25
RT	399+40.94-399+46.30	OUTLET DITCH	CL II	5 TONS	1.00	1.25

END CONSTRUCTION
KY 1189
STA. 401+45.64

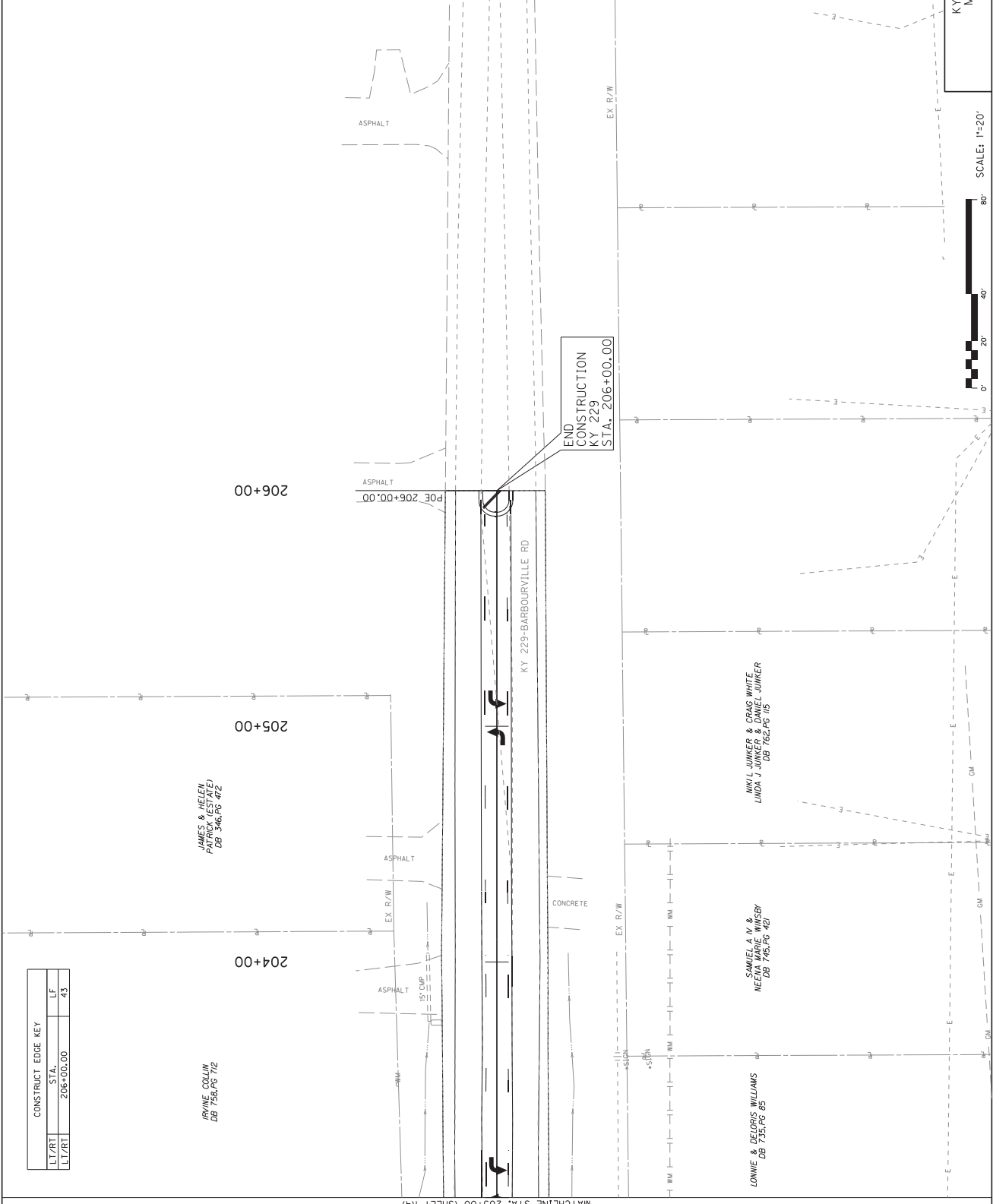
END CONSTRUCTION
KY 1189
STA. 401+45.64

END CONSTRUCTION
KY 1189
STA. 401+45.64

SCALE: 1"=20'

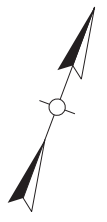


COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	85



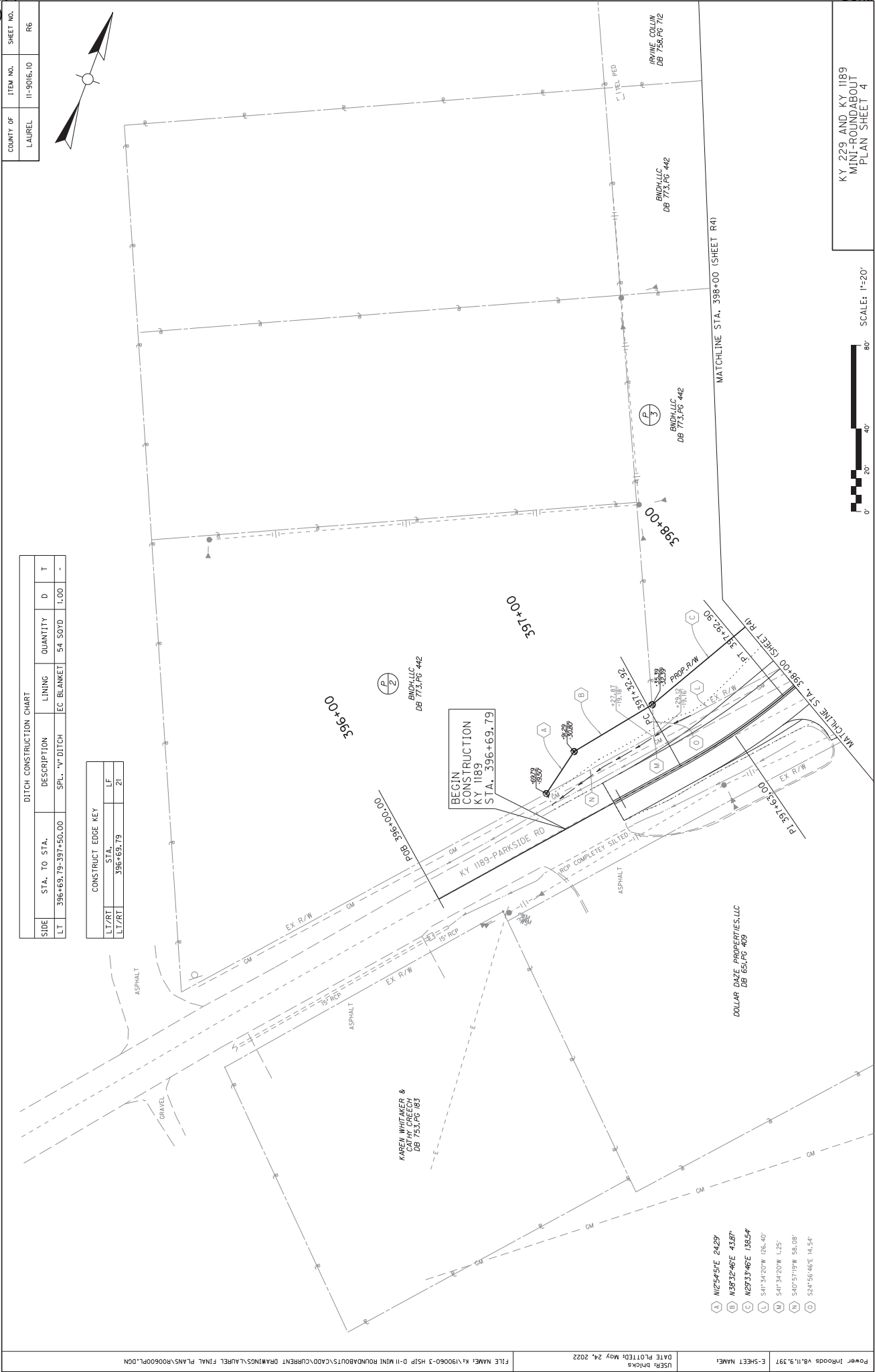
KY 229 AND KY 1189
MINI-ROUNDABOUT
PLAN SHEET 3

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	16

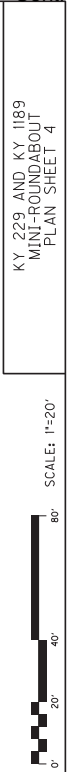


SIDE	STA. TO STA.	DESCRIPTION	LINING	QUANTITY	D	T
LT	396+69.79-397+50.00	SPL. "V" DITCH	EC BLANKET	54 SOYD	1.00	-

LT/RT	STA.	LF
LT/RT	396+69.79	21



- (A) N26°45'E 24.29'
- (B) N38°32'46"E 43.87'
- (C) N29°33'46"E 138.54'
- (L) S11°34'20"W 126.40'
- (M) S41°34'20"W 1.29'
- (N) S40°57'19"W 58.08'
- (O) S24°56'46"E 14.54'

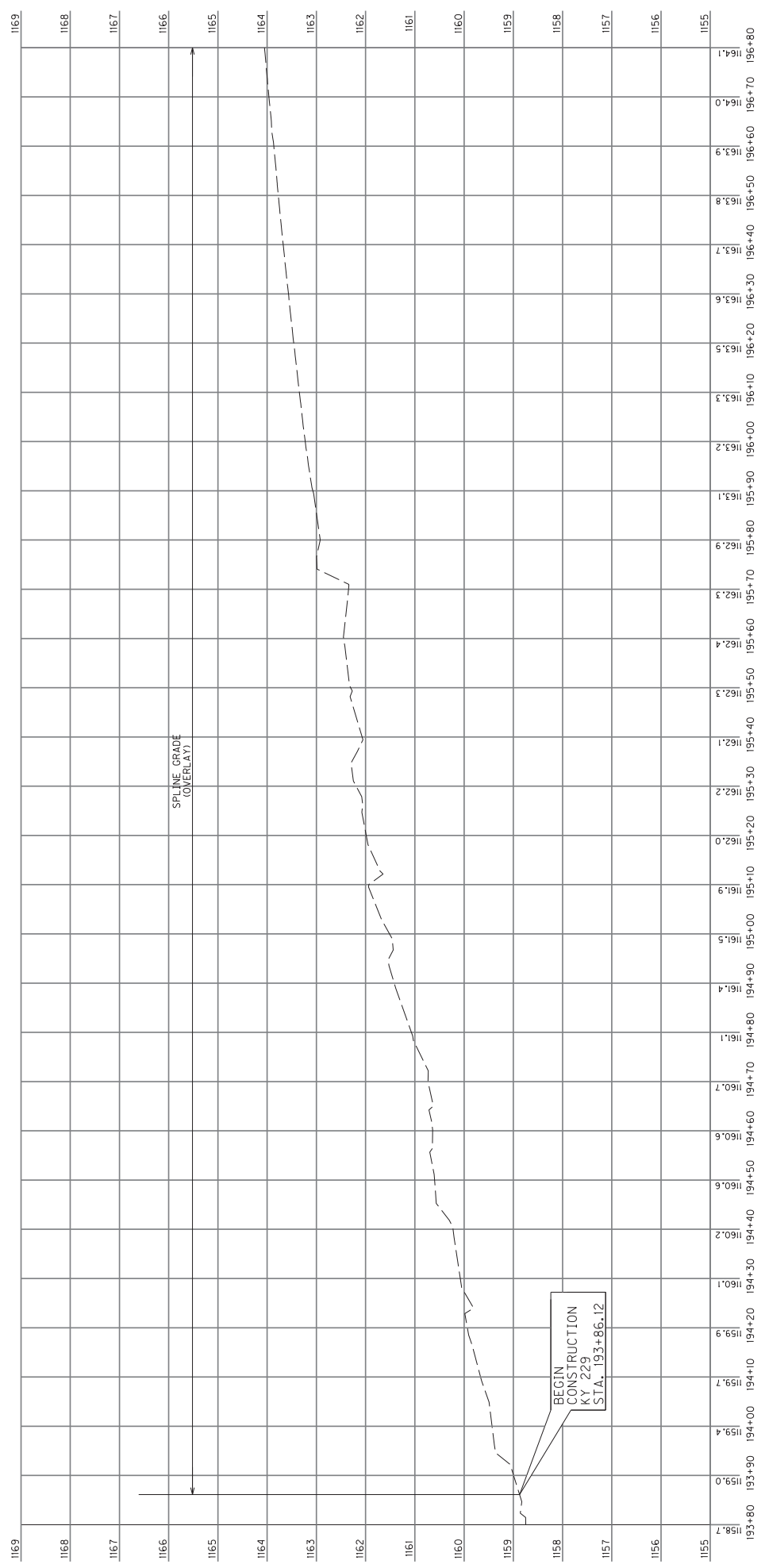


KY 229 AND KY 1189
MINI-ROUNDABOUT
PLAN SHEET 4

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	87

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

NOTES:
SEE CROSS SECTIONS FOR
FINAL ELEVATIONS.

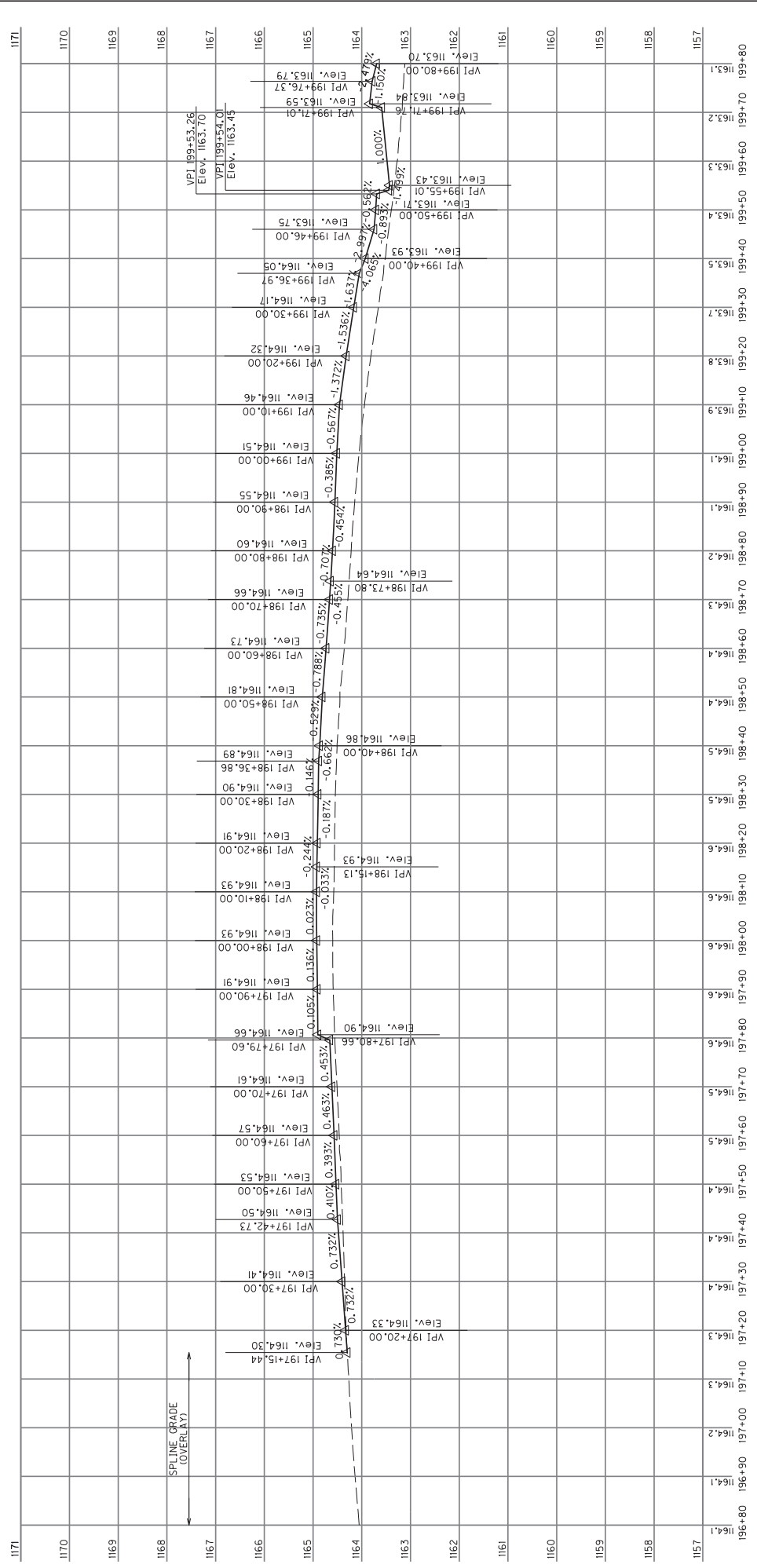


KY 229 AND KY 1189
MINI-ROUNDABOUT
KY 229 PROFILE SHEET 1

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	88

NOTES:
SEE CROSS SECTIONS FOR
FINAL ELEVATIONS.

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



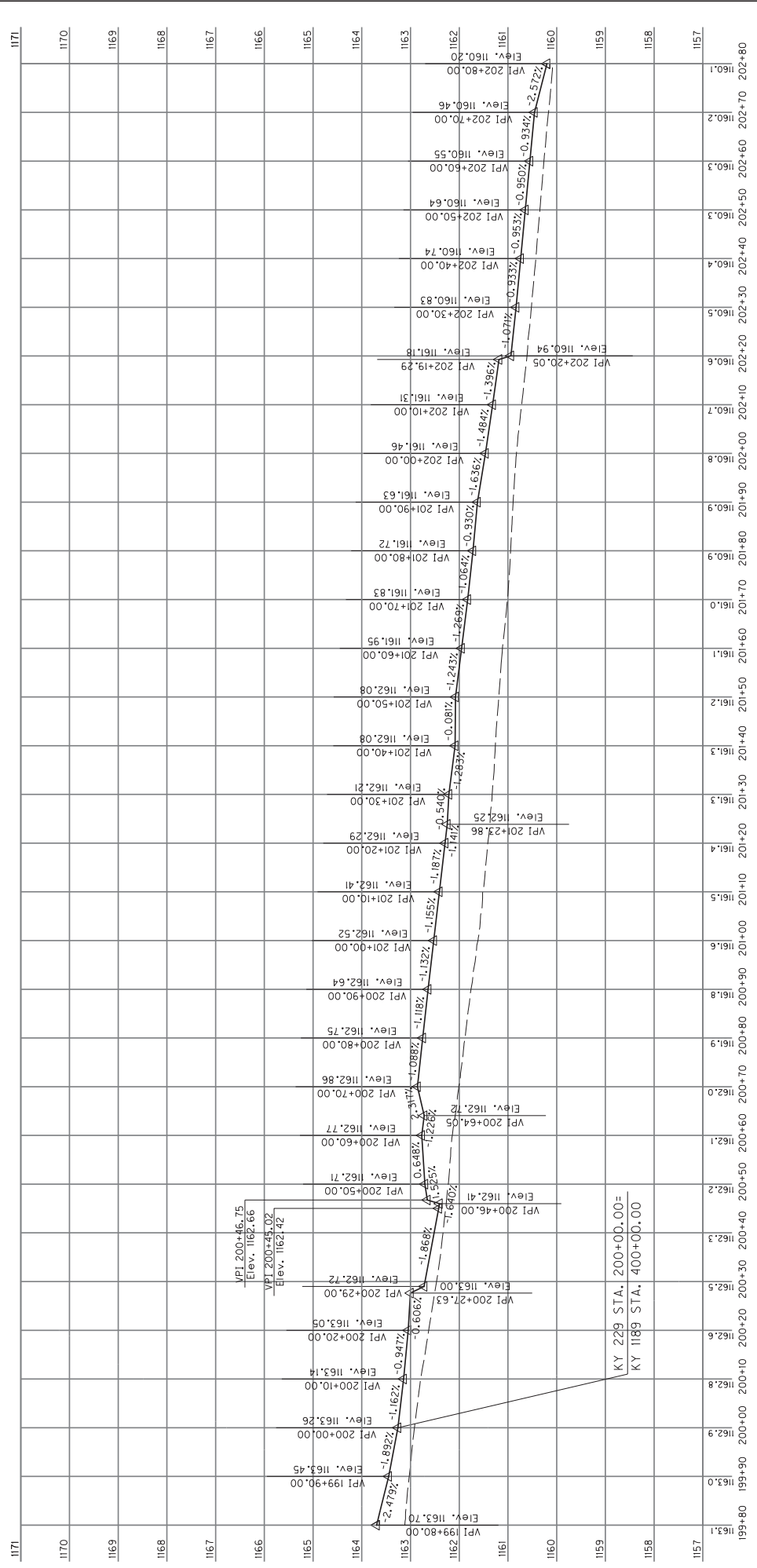
SPLINE GRADE
(OVERLAY)

KY 229 AND KY 1189
MINI-ROUNDABOUT
KY 229 PROFILE SHEET 2

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	89

NOTES:
SEE CROSS SECTIONS FOR
FINAL ELEVATIONS.

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



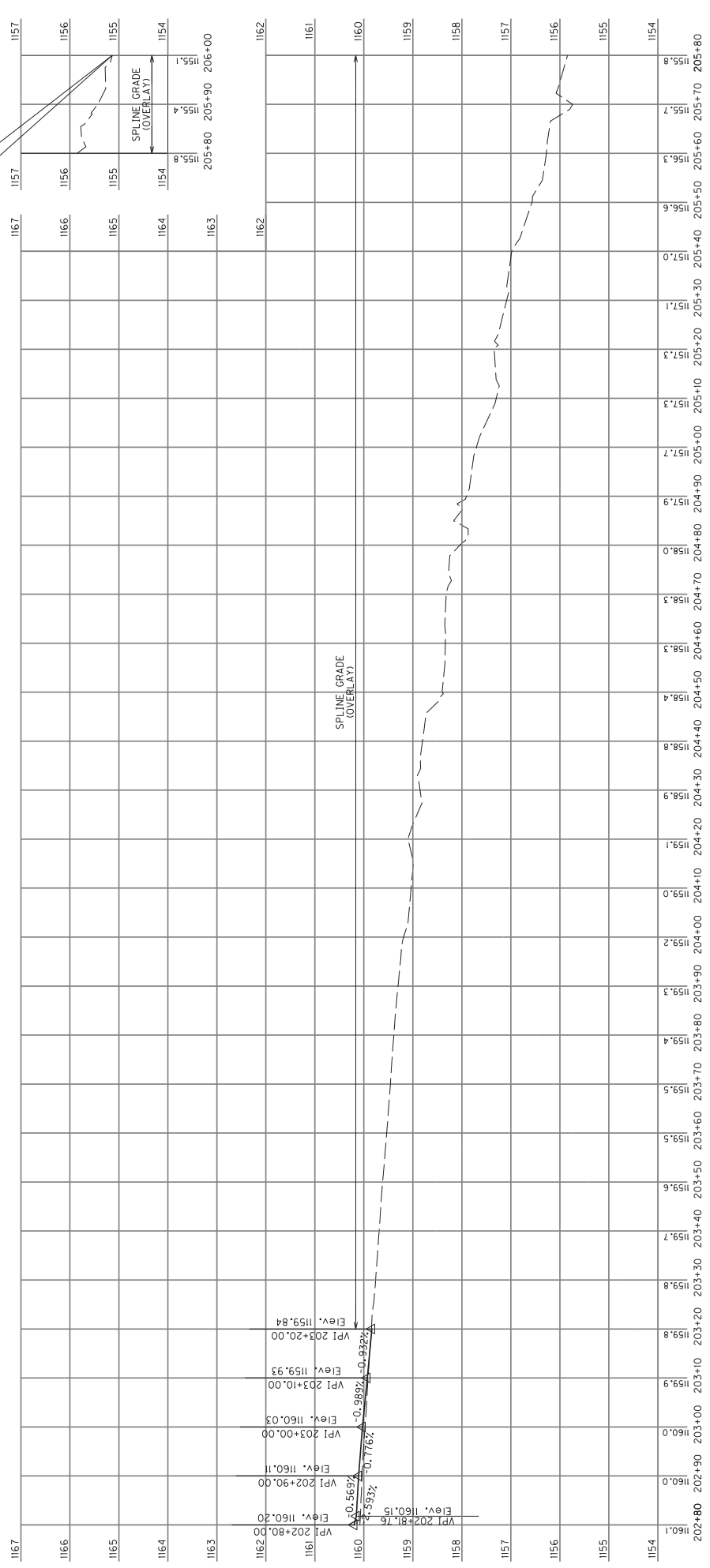
KY 229 AND KY 1189
MINI-ROUNDABOUT
KY 229 PROFILE SHEET 3

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	110

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

NOTES:
SEE CROSS SECTIONS FOR
FINAL ELEVATIONS.

END
CONSTRUCTION
KY 229
STA. 206+00.00

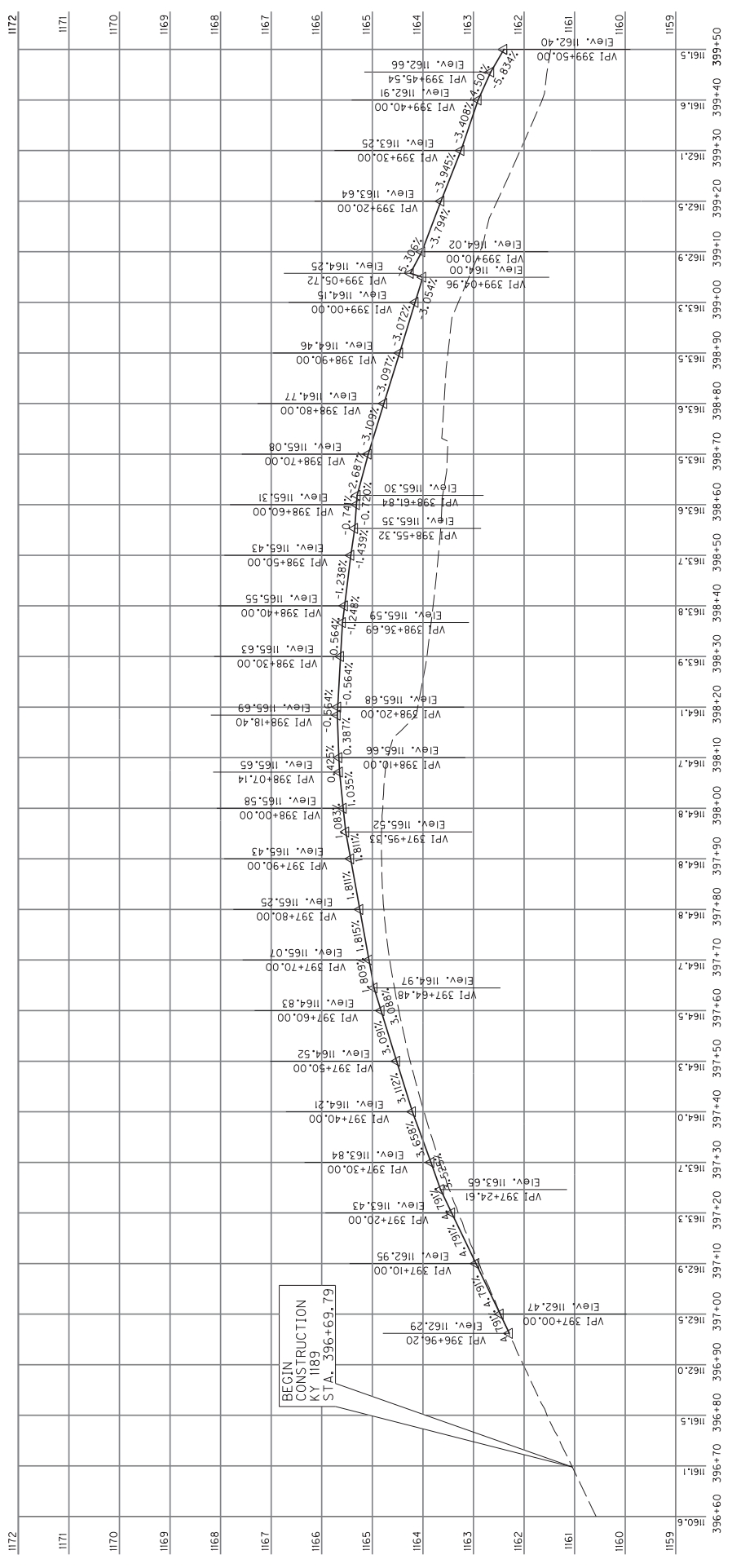


KY 229 AND KY 1189
MINI-ROUNDABOUT
KY 229 PROFILE SHEET 4

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	RII

NOTES:
SEE CROSS SECTIONS FOR
FINAL ELEVATIONS.

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

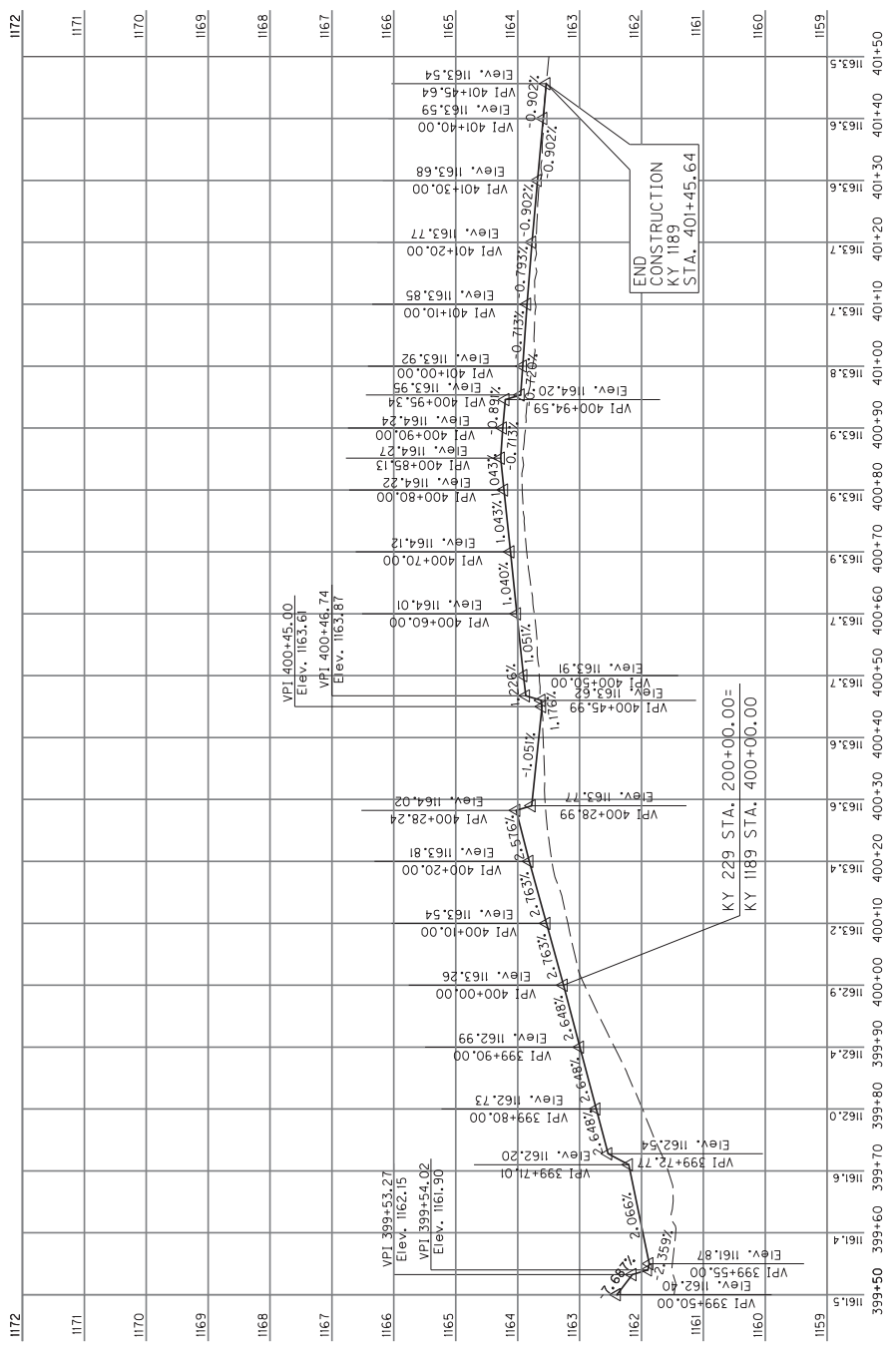


KY 229 AND KY 1189
MINI-ROUNDABOUT
KY 1189 PROFILE SHEET 1

COUNTY OF LAUREL	ITEM NO. 11-9016.10	SHEET NO. R12
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NOTES:
SEE CROSS SECTIONS FOR
FINAL ELEVATIONS.

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



END
CONSTRUCTION
KY 1189
STA. 401+45.64

KY 229 STA. 200+00.00=
KY 1189 STA. 400+00.00

COUNTY OF LAUREL ITEM NO. 11-9016.10 SHEET NO. R13

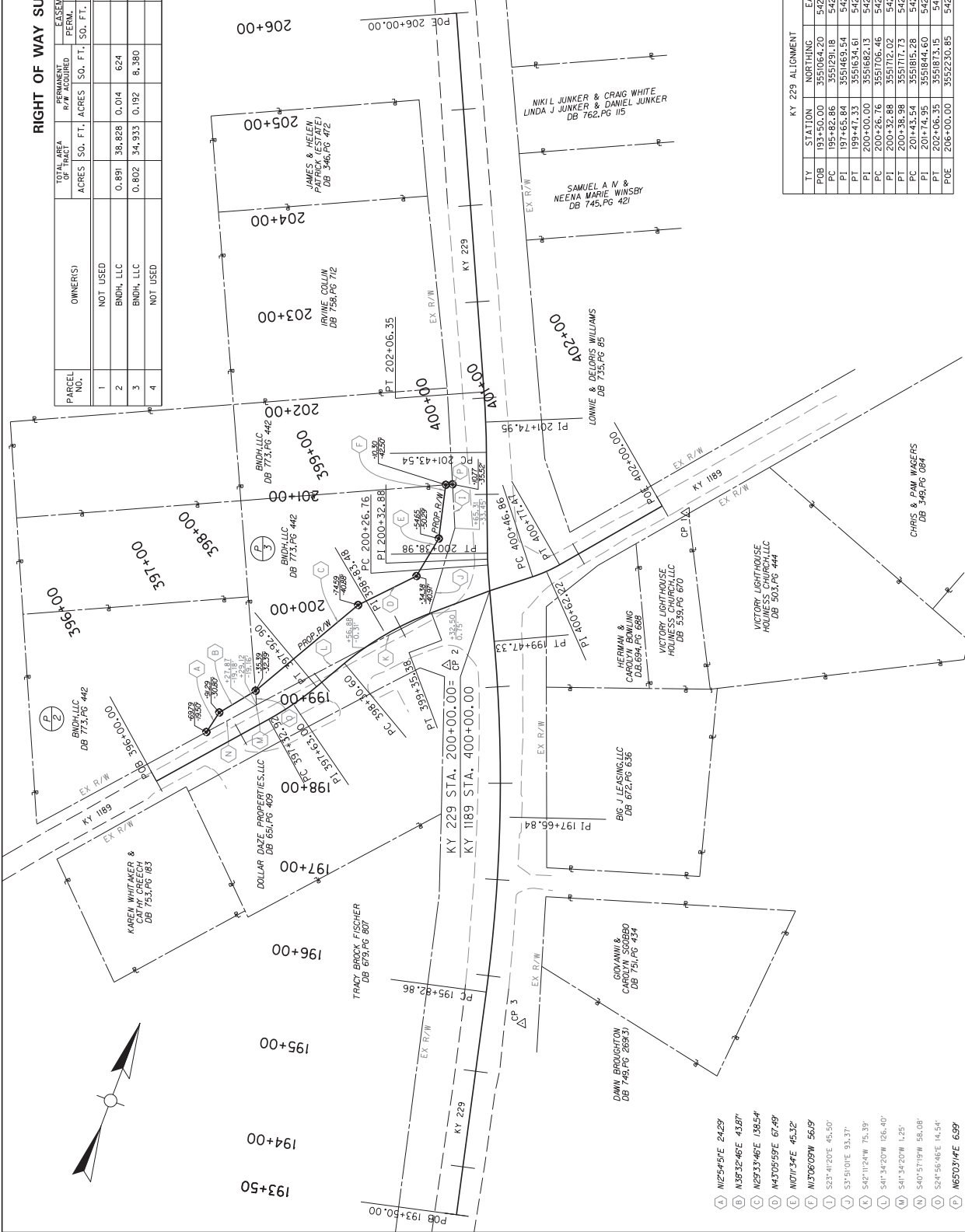
RIGHT OF WAY SUMMARY

PARCEL NO.	OWNERS	TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS		PORTION REMAINING		SEWER SYSTEM		SOURCE OF TITLE
		ACRES	SO. FT.	ACRES	SO. FT.	PERM.	TEMP.	ACRES	SO. FT.	TYPE	NO. C. R. F. S.	
1	NOT USED	0.891	38,828	0.014	624			0.877	38,204			DB 775 PG 442
2	BNDH, LLC	0.802	34,933	0.192	8,380			0.610	26,553			DB 775 PG 442
3	BNDH, LLC											
4	NOT USED											

NOTE: PERMANENT R/W ACQUIRED + AREA SEVERED = TOTAL AREA OF TRACT.

TYPE SEWER SYSTEM
 1. PRIVATE - INDIVIDUAL
 2. PRIVATE - MULTIPARTY
 3. PUBLIC
 4. NONE
 5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE
 C - COMMERCIAL
 H - HOSPITAL
 F - FARM
 S - STORAGE



PROJECT CONTROL

TY	NORTHING	EASTING	ELEV.
CP 1	3551829.64	5422032.39	1162.04
CP 2	3551994.81	5421855.68	1163.88
CP 3	3551214.04	5422058.81	1163.42

KY 1189 ALIGNMENT

TY	STATION	NORTHING	EASTING
DB	199+00.00	3551715.22	5421855.68
PC	199+03.92	3551715.22	5421855.68
PI	199+43.00	3551693.92	5421721.61
PT	199+47.33	3551634.61	5421832.52
PC	200+00.00	3551682.13	5421859.79
PI	200+26.76	3551706.46	5421858.66
PT	200+32.88	3551712.02	5421856.12
PC	200+38.98	3551717.73	5421853.92
PI	201+43.54	3551815.28	5421816.32
PT	201+74.35	3551844.60	5421805.02
PC	202+06.35	3551873.15	5421791.91
POE	206+00.00	3552230.85	5421627.56

KY 229 ALIGNMENT

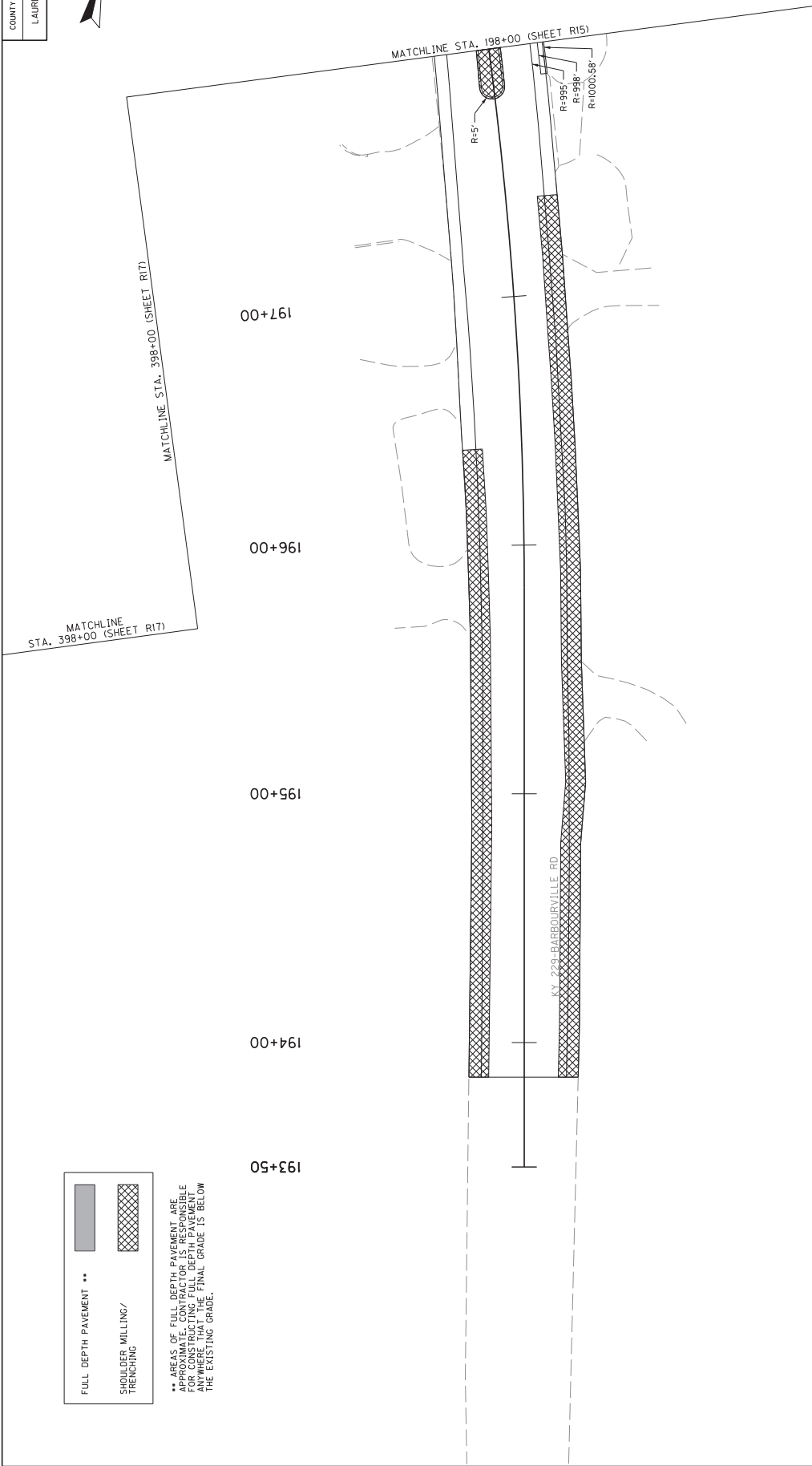
TY	STATION	NORTHING	EASTING
DB	193+50.00	3551720.00	5421853.33
PC	193+45.84	3551691.54	5421931.46
PI	197+65.84	3551634.61	5421832.52
PT	199+47.33	3551634.61	5421832.52
PC	200+00.00	3551682.13	5421859.79
PI	200+26.76	3551706.46	5421858.66
PT	200+32.88	3551712.02	5421856.12
PC	201+43.54	3551815.28	5421816.32
PI	201+74.35	3551844.60	5421805.02
PC	202+06.35	3551873.15	5421791.91
POE	206+00.00	3552230.85	5421627.56



SCALE: 1"=50'

KY 229 AND KY 1189
MINI-ROUNDABOUT
RIGHT OF WAY STRIP MAP & SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R14



FULL DEPTH PAVEMENT ••

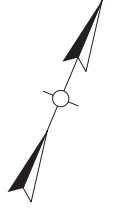
**SHOULDER MILLING/
TRENCHING**

•• AREAS OF FULL DEPTH PAVEMENT ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING GRADE ANYWHERE THAT THE FINAL GRADE IS BELOW THE EXISTING GRADE.



KY 229 AND KY 1189
MINI-ROUNDABOUT
PAVEMENT DETAIL SHEET 1

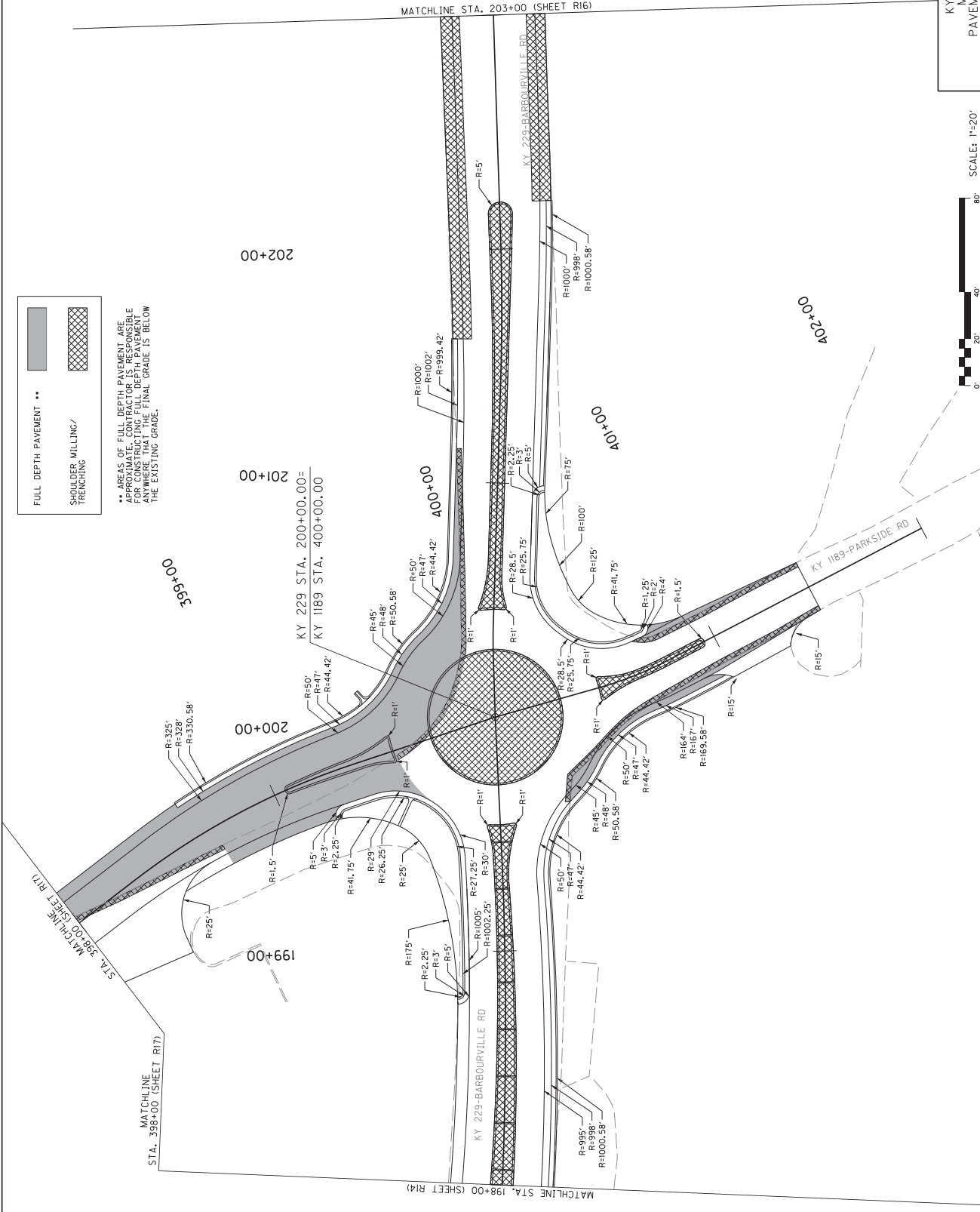
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R15



FULL DEPTH PAVEMENT **

SHOULDER MILLING/
TRENCHING

** AREAS OF FULL DEPTH PAVEMENT ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING FULL DEPTH PAVEMENT ANYWHERE THAT THE FINAL GRADE IS BELOW THE EXISTING GRADE.

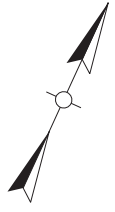


KY 229 AND KY 1189
MINI-ROUNDABOUT
PAVEMENT DETAIL SHEET 2

SCALE: 1"=20'



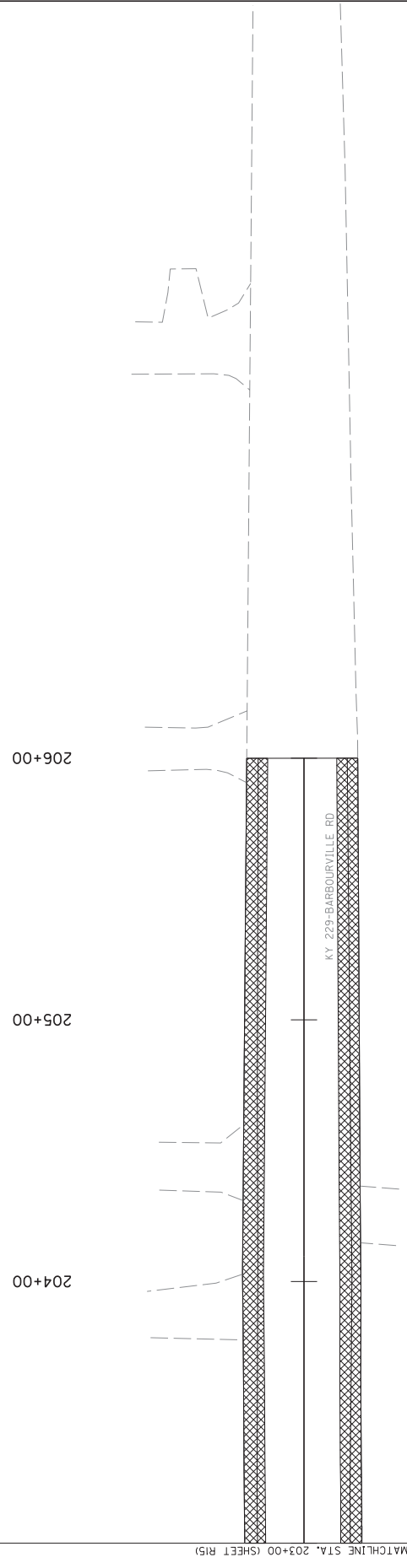
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R16



FULL DEPTH PAVEMENT **

**SHOULDER MILLING/
TRENCHING**

** AREAS OF FULL DEPTH PAVEMENT ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE FINAL GRADE IS BELOW THE EXISTING GRADE.



KY 229 AND KY 1189
MINI-ROUNDABOUT
PAVEMENT DETAIL SHEET 3

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R17



FULL DEPTH PAVEMENT **

**SHOULDER MILLING/
TRENCHING**

** AREAS OF FULL DEPTH PAVEMENT ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE FINAL GRADE IS BELOW THE EXISTING GRADE.



KY 229 AND KY 1189
MINI-ROUNDOABOUT
PAVEMENT DETAIL SHEET 4

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R18

MAINTENANCE OF TRAFFIC NOTES

LIGHTING
 THE CONTRACTOR SHALL MAINTAIN SERVICE TO ALL LIGHTING FOR THE DURATION OF THE PROJECT. SWITCH OVER TO NEW PROPOSED LIGHTING SHOULD BE DONE DURING DAYLIGHT HOURS. IF CONTRACTOR INTERRUPTS POWER TO THE LIGHTING, SYSTEM REPAIRS SHALL EXPEDITED TO THE SYSTEM AS SOON AS POSSIBLE AT NO COST TO THE DEPARTMENT.

MAINTAINING LANE WIDTH
 THE CONTRACTOR SHALL MAINTAIN A TWO-LANE TRAVEL WAY DURING NON-WORKING HOURS. HOWEVER, DURING WORKING HOURS, A ONE-LANE TRAVEL WAY MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 16 FEET IN WIDTH. TWO LANES SHALL BE MAINTAINED DURING THE NORMAL WORKDAY RUSH HOURS OF 7:00-9:00 AM AND 4:00-6:00 PM MONDAY THROUGH FRIDAY. FULL CLOSURE OF THE KY 229/KY 1189 INTERSECTION WILL NOT BE ALLOWED AT ANY TIME.

PAVEMENT SAFETY WEDGE
 THE CONTRACTOR SHALL UTILIZE DCA TO WEDGE ALL DROP-OFFS THAT ARE GREATER THAN 2 INCHES. DROP-OFFS SHALL BE MAINTAINED AT A FLATTER SLOPE DURING NIGHTTIME HOURS. REMOVE THE WEDGES PRIOR TO PLACEMENT OF ADDITIONAL ASPHALT COURSES.

MOI PHASING
 PHASE 1
 PLACE ALL TEMPORARY TRAFFIC CONTROL SIGNS AND BARRIERS.

CLOSE THE WESTBOUND LANE OF KY 1189 AND THE SOUTHBOUND LANE OF KY 229 WITHIN THE NORTHWEST QUADRANT OF THE INTERSECTION. MAINTAIN ALTERNATING ONE-WAY TRAFFIC ALONG THE EASTBOUND LANE OF KY 1189 AND THE NORTHBOUND LANE OF KY 229 DURING CONSTRUCTION OF THE NORTHWEST QUADRANT OF THE INTERSECTION.

UNLESS OTHERWISE APPROVED BY THE ENGINEER, PERFORM ALL PHASE 1 SHOULDER MILLING/TRENCHING, EMBANKMENT GRADING, DCA, AND BASE LAYER CONSTRUCTION BEFORE MOVING ON TO PHASE 2.

PHASE 2
 REOPEN THE WESTBOUND LANE OF KY 1189 AND THE SOUTHBOUND LANE OF KY 229 WITHIN THE NORTHWEST QUADRANT OF THE INTERSECTION. CLOSE THE WESTBOUND LANE OF KY 1189 AND THE NORTHBOUND LANE OF KY 229 WITHIN THE NORTHEAST QUADRANT OF THE INTERSECTION. MAINTAIN ALTERNATING ONE-WAY TRAFFIC ALONG THE EASTBOUND LANE OF KY 1189 AND THE SOUTHBOUND LANE OF KY 229 DURING CONSTRUCTION OF THE NORTHEAST QUADRANT OF THE INTERSECTION.

UNLESS OTHERWISE APPROVED BY THE ENGINEER, PERFORM ALL PHASE 2 SHOULDER MILLING/TRENCHING, EMBANKMENT GRADING, DCA, AND BASE LAYER, AND TRUCK APRON CONSTRUCTION BEFORE MOVING ON TO PHASE 3.

PHASE 3
 REOPEN THE WESTBOUND LANE OF KY 1189 AND THE NORTHBOUND LANE OF KY 229 WITHIN THE NORTHEAST QUADRANT OF THE INTERSECTION. CLOSE THE WESTBOUND LANE OF KY 1189 AND THE SOUTHBOUND LANE OF KY 229 WITHIN THE SOUTHBOUND LANE OF KY 1189 AND THE WESTBOUND LANE OF KY 229 DURING CONSTRUCTION OF THE SOUTHBOUND QUADRANT OF THE INTERSECTION.

UNLESS OTHERWISE APPROVED BY THE ENGINEER, PERFORM ALL PHASE 3 SHOULDER MILLING/TRENCHING, EMBANKMENT GRADING, DCA, AND BASE LAYER CONSTRUCTION BEFORE MOVING ON TO PHASE 4.

PHASE 4
 REOPEN THE EASTBOUND LANE OF KY 1189 AND THE NORTHBOUND LANE OF KY 229 WITHIN THE SOUTHEAST QUADRANT OF THE INTERSECTION. CLOSE THE EASTBOUND LANE OF KY 1189 AND THE SOUTHBOUND LANE OF KY 229 WITHIN THE WESTBOUND LANE OF KY 1189 AND THE NORTHBOUND LANE OF KY 229 DURING CONSTRUCTION OF THE SOUTHWEST QUADRANT OF THE INTERSECTION.

UNLESS OTHERWISE APPROVED BY THE ENGINEER, PERFORM ALL PHASE 4 SHOULDER MILLING/TRENCHING, EMBANKMENT GRADING, DCA, AND BASE LAYER, AND TRUCK APRON CONSTRUCTION BEFORE MOVING ON TO PHASE 5.

PHASE 5
 ONCE THE PAVED FOOTPRINT OF THE MINI-ROUNDBOAT IS ESTABLISHED BY PHASES 1-4, TRANSITION THE OPERATION OF THE INTERSECTION TO THE CIRCULATORY ROUNDBOAT MEDIAN AND PERFORM THE NECESSARY ASPHALT MILLING & TEXTURING TO ESTABLISH THE SEAT FOR AND CONSTRUCT THE MOUNTABLE MEDIAN TYPE 3A CENTRAL ISLAND.

NOTE: THE CONTRACTOR IS TO REMAIN ON-SITE TO DIRECT TRAFFIC FROM THE BEGINNING OF THE CONSTRUCTION OF THE CENTRAL ISLAND, DURING THE 24 HR CURING PERIOD, AND UNTIL PERMANENT MINI-ROUNDBOAT SIGNING AND TEMPORARY STRIPING IS CONSTRUCTED. FOR LARGER VEHICLES THAT WOULD NORMALLY NEED TO MOUNT THE CENTRAL ISLAND, THE CONTRACTOR MAY DIRECT THOSE VEHICLES IN A CONTRA-FLOW MANNER DURING THE CURING PERIOD. AT NIGHT, ALL FLAGGERS MUST BE EXTERNALLY ILLUMINATED.

PHASE 6
 PERFORM NECESSARY ASPHALT MILLING & TEXTURING TO ESTABLISH THE SEAT FOR AND CONSTRUCT THE MOUNTABLE MEDIAN TYPE 3A SPLITTER ISLANDS.

PHASE 7
 CONSTRUCT THE REMAINING CURB AND GUTTER AND FLUMES.

GENERAL
 ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE CURRENT STANDARD DRAWINGS AND THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS, CURRENT EDITION.

OTHER MAINTENANCE OF TRAFFIC PROPOSALS WILL BE CONSIDERED IN ACCORDANCE WITH THE STANDARD SPECIFICATION HOWEVER, PERMANENT MAINTENANCE OF TRAFFIC SCHEMES WILL NOT BE SUBJECT TO VALUE ENGINEERING UNDER SECTION III.

THE CONTRACTOR SHALL REPAIR AND/OR UPGRADE PAVEMENT ALONG AND ACROSS EXISTING ROADS WHERE CONSTRUCTION TRAFFIC CROSSES. ACCESS TO ALL PUBLIC ROADS TO BE MAINTAINED EXCEPT AS INDICATED IN THE MAINTENANCE OF TRAFFIC NOTES.

THE CONTRACTOR MUST NOTIFY THE DISTRICT PUBLIC INFORMATION OFFICER (PIIO) AT KYTC DISTRICT II (OFFICE) WITHIN THE FOLLOWING TIME FRAMES OF PENDING CHANGES IN THEIR WORK SCHEDULE WHICH WILL AFFECT TRAFFIC PATTERNS:

1) AT LEAST FOURTEEN (14) DAYS PRIOR TO BEGINNING CONSTRUCTION

THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, EITHER EXISTING, PERMANENT OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED.

PAVEMENT EDGE DROP-OFFS
 A PAVEMENT EDGE THAT TRAFFIC IS EXPECTED TO CROSS IN A LANE CHANGE SITUATION SHALL NOT HAVE AN UNACCEPTABLE SLOPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE DCA TO THE PROPER SLOPE. SITUATIONS WHERE THE SLOPE IS GREATER THAN 1/2 INCH, MODIFICATIONS WILL BE AS DIRECTED BY THE ENGINEER.

PAVEMENT EDGES THAT TRAFFIC IS NOT EXPECTED TO CROSS SHALL BE TREATED AS FOLLOWS: OR, AS DIRECTED BY THE ENGINEER:
 4 INCHES AND LESS - PLASTIC DRUMS, VERTICAL PANELS, OR BARRICADES SHALL BE PLACED EVERY 40 FEET. CONES MAY BE USED IN PLACE OF PLASTIC DRUMS, VERTICAL PANELS, AND BARRICADES DURING DAYLIGHT HOURS. SPACING FOR TAPERS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

GREATER THAN 4 INCHES - POSITIVE SEPARATION NEEDED OR WEDGE WITH 3:1 OR FLATTER SLOPE. IF THERE IS 8 FEET OR MORE DISTANCE BETWEEN THE EDGE OF PAVEMENT AND DROP-OFF, PLASTIC DRUMS, VERTICAL PANELS, OR BARRICADES MAY BE USED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHALL BE USED FOR OVERNIGHT INSTALLATIONS.

FOR TEMPORARY CONDITIONS, DROP-OFFS 4 INCHES AND GREATER MAY BE PROTECTED WITH PLASTIC DRUMS, VERTICAL PANELS, OR BARRICADES FOR SHORT DISTANCES WHILE WORK IS BEING DONE IN THE DROP-OFF AREA IF THERE IS 8 FEET OR MORE OF SEPARATION BETWEEN DROP-OFF AND TRAVEL WAY.

LESSER TREATMENT THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

PUBLIC INFORMATION PLAN
 KYTC DISTRICT II PUBLIC INFORMATION OFFICER (PIIO) WILL INFORM THE MOTORING PUBLIC AND AREA STAKEHOLDERS OF PROJECT INFORMATION INCLUDING PROJECT LOCATION, PROJECT PHASES, PROJECT SCHEDULE, PROJECT PHASING, PROJECT COORDINATE AND DISSEMINATE TO STAKEHOLDER AND THE MEDIA APPROPRIATE INFORMATION REGARDING THE CONSTRUCTION PLANS. PRIOR TO CONSTRUCTION, SIGNS SHALL BE IN PLACE PER APPLICABLE STANDARD DRAWINGS AND/OR AS DIRECTED BY THE ENGINEER OVER THE PROJECT LIMITS.

ADVANCE NOTICE OF WORK
 THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF LONDON 7 DAYS PRIOR TO THE START OF WORK. THE ENGINEER A MINIMUM OF SEVEN DAYS ADVANCED OF ANY CHANGE IN TRAFFIC PATTERNS.

ACCESS TO PROPERTIES
 REASONABLE MEANS OF INGRESS AND EGRESS SHALL BE MAINTAINED TO ALL PROPERTIES WITHIN THE PROJECT LIMITS.

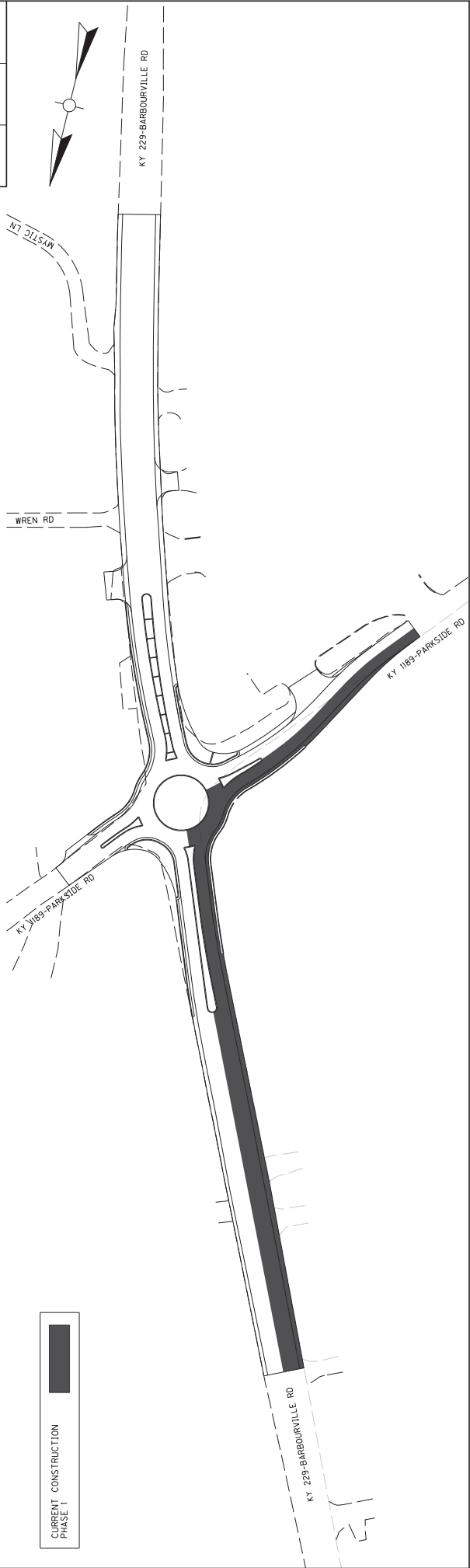
REMOVAL OF PAVEMENT MARKINGS
 TEMPORARY AND EXISTING MARKINGS THAT DO NOT CONFORM TO THE TRAFFIC OPERATION IN USE SHALL BE WATER BLASTED BY AN APPROVED METHOD SATISFACTORY TO THE ENGINEER. GRINDING IS NOT AN ACCEPTABLE ALTERNATE FOR STRIPING REMOVAL ON EXISTING PORTLAND CEMENT CONCRETE PAVEMENT. THIS IS INCIDENTAL TO MAINTENANCE OF TRAFFIC.

HOLIDAYS AND SPECIAL EVENTS
 DATES AND TIMES FOR HOLIDAYS AND SPECIAL EVENTS WHEN ROAD CLOSURES, LANE CLOSURES, AND BLASTING WILL NOT BE ALLOWED ON DATES LISTED IN SECTION 101 OF KY STANDARD SPECIFICATIONS.

KY 229 AND KY 1189
MAINTENANCE OF TRAFFIC NOTES

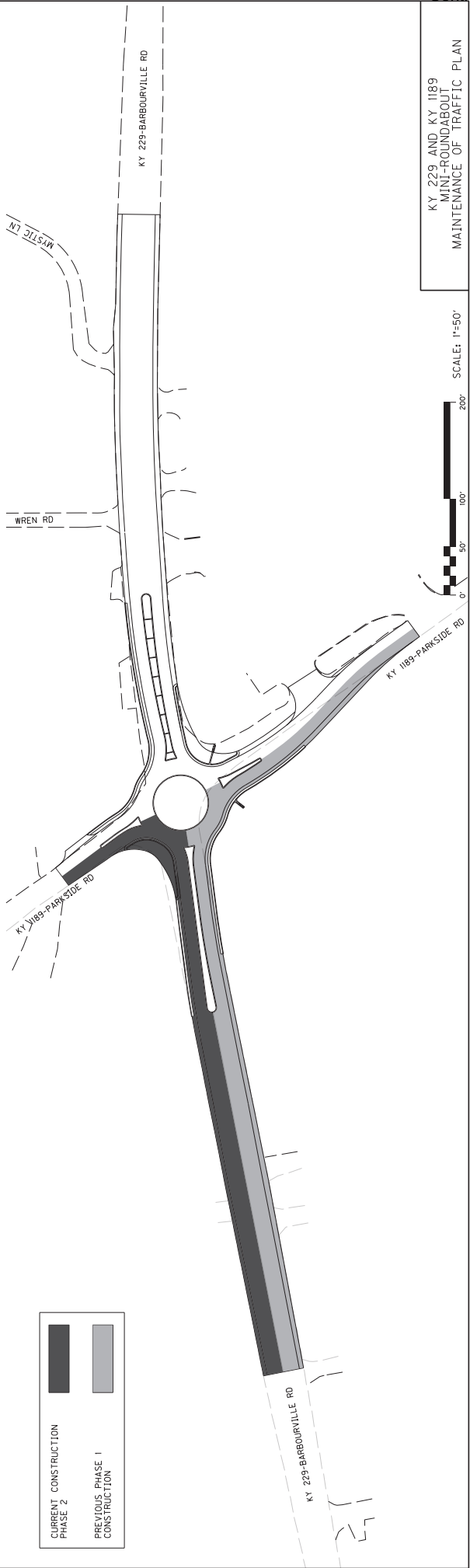
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R19

MOT PHASE 1



CURRENT CONSTRUCTION
PHASE 1

MOT PHASE 2



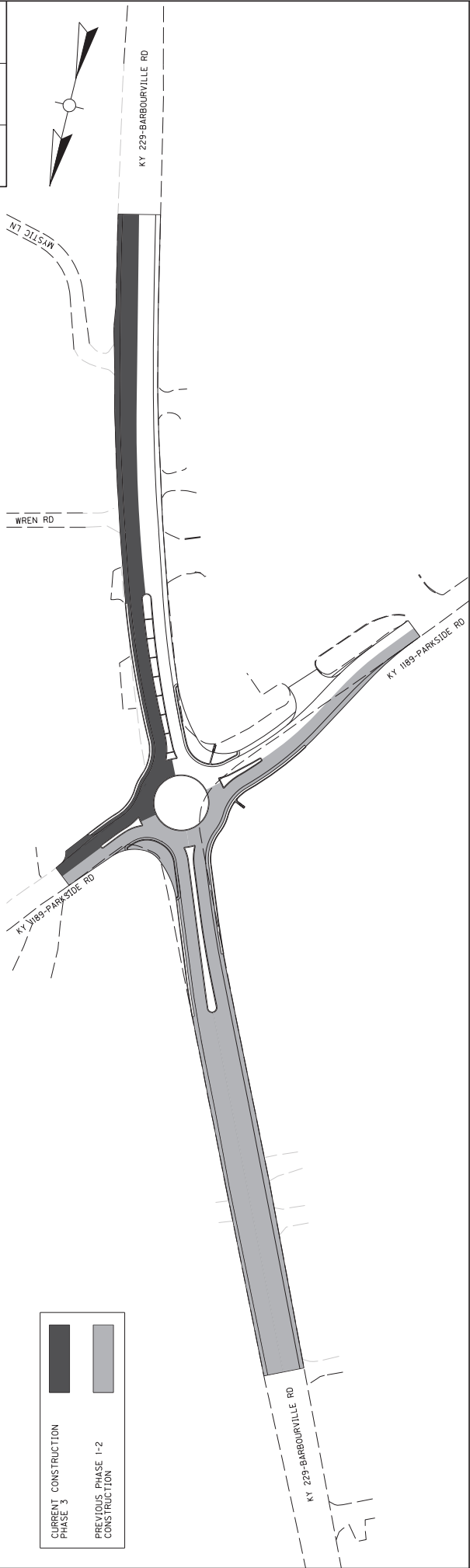
CURRENT CONSTRUCTION
PHASE 2
PREVIOUS PHASE 1
CONSTRUCTION





KY 229 AND KY 1189
MINI-ROUNDABOUT
MAINTENANCE OF TRAFFIC PLAN

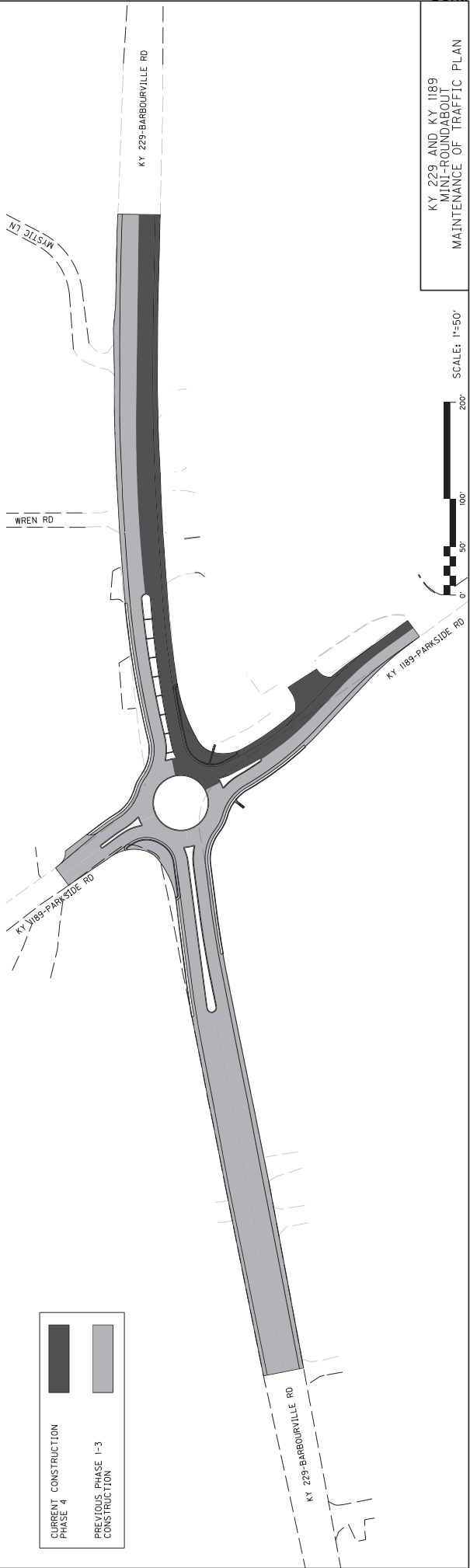
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R19A



MOT PHASE 3



	CURRENT CONSTRUCTION PHASE 3
	PREVIOUS PHASE 1-2 CONSTRUCTION

MOT PHASE 4



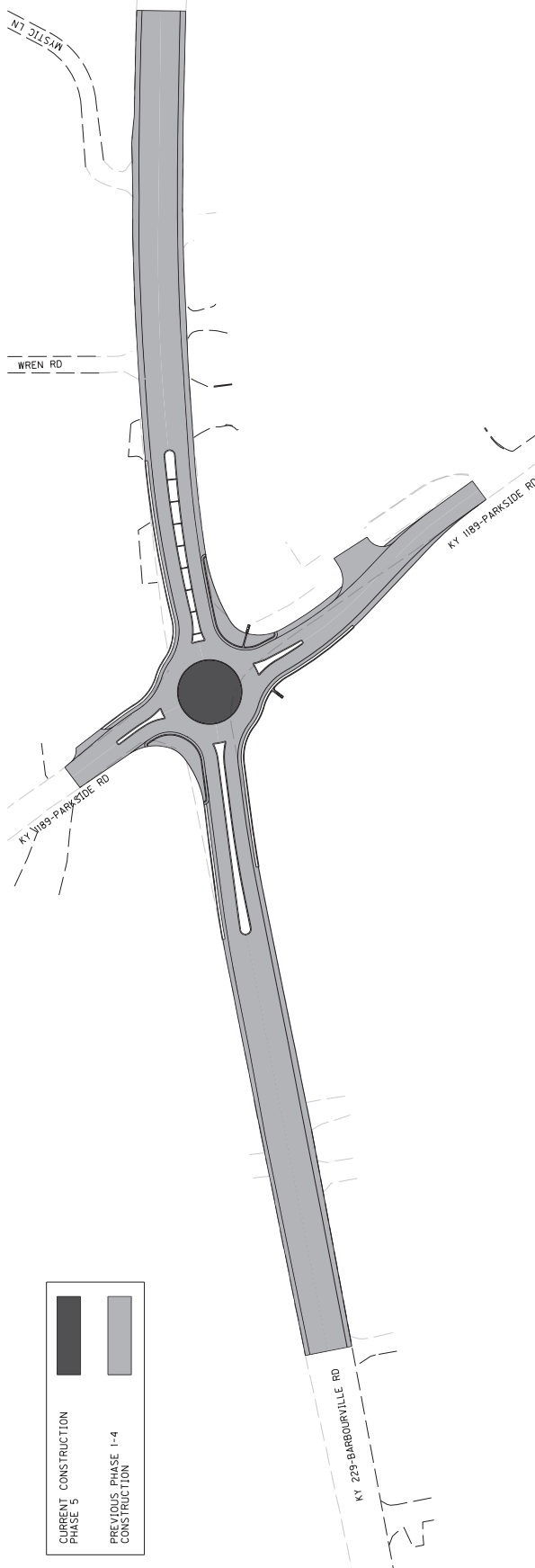
	CURRENT CONSTRUCTION PHASE 4
	PREVIOUS PHASE 1-3 CONSTRUCTION



KY 229 AND KY 1189
 MINI-ROUNDABOUT
 MAINTENANCE OF TRAFFIC PLAN

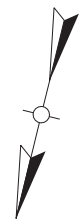


COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R19B

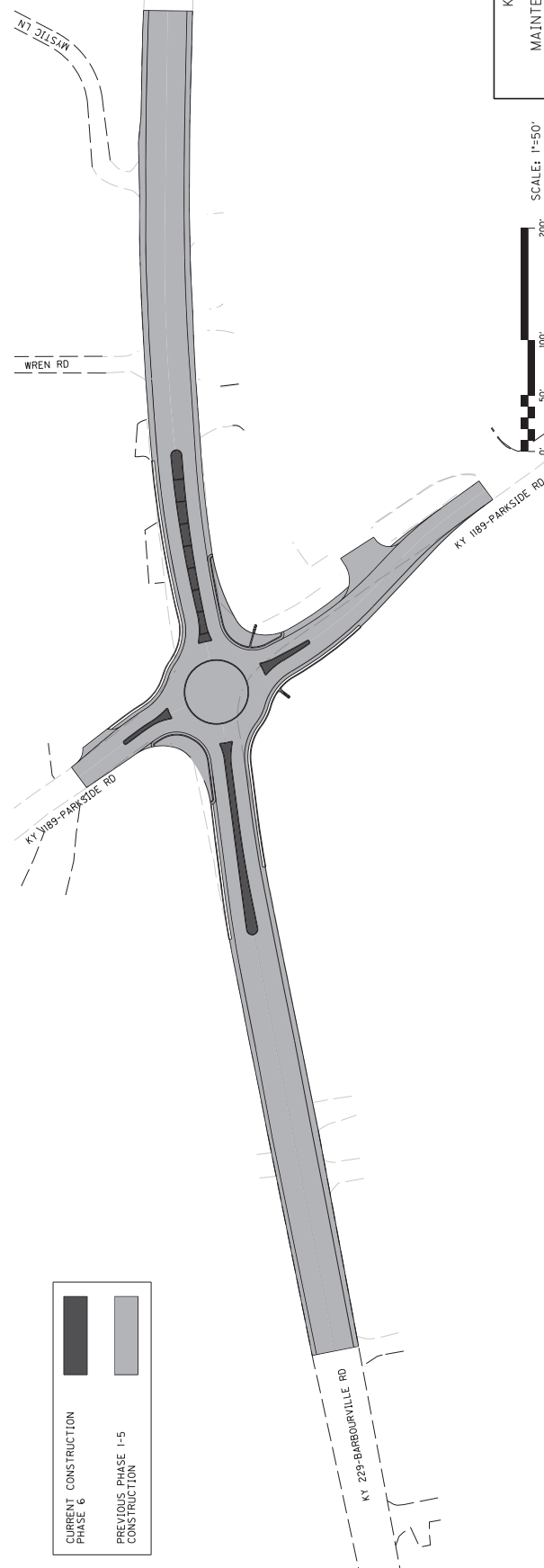
MOT PHASE 5





	CURRENT CONSTRUCTION PHASE 5
	PREVIOUS PHASE 1-4 CONSTRUCTION



MOT PHASE 6



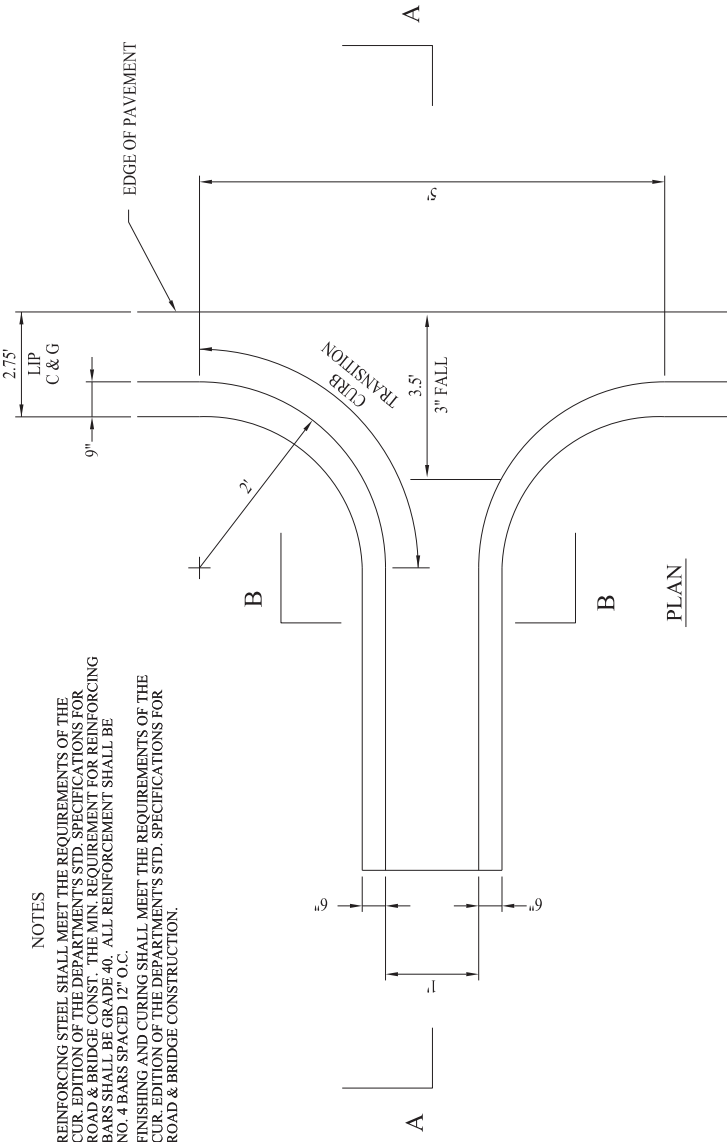
	CURRENT CONSTRUCTION PHASE 6
	PREVIOUS PHASE 1-5 CONSTRUCTION



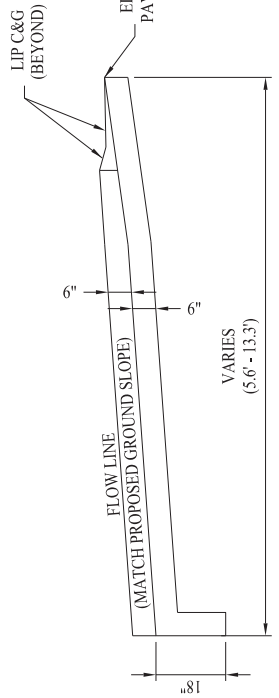
KY 229 AND KY 1189
MINI-ROUNDABOUT
MAINTENANCE OF TRAFFIC PLAN

COUNTY OF LAUREL	ITEM NO. 11-9016.10	SHEET NO. R20
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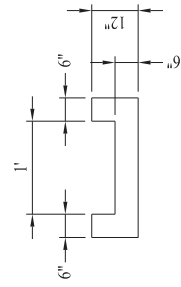
FLUME INLET TYPE 1 MOD DETAIL



- NOTES**
1. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF THE CURB CUT OF THE DEPARTMENT'S STD. SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION. THE WIRE MESH REINFORCING BARS SHALL BE GRADE 40. ALL REINFORCEMENT SHALL BE NO. 4 BARS SPACED 12" O.C.
 2. FINISHING AND CURING SHALL MEET THE REQUIREMENTS OF THE CURB CUT OF THE DEPARTMENT'S STD. SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.

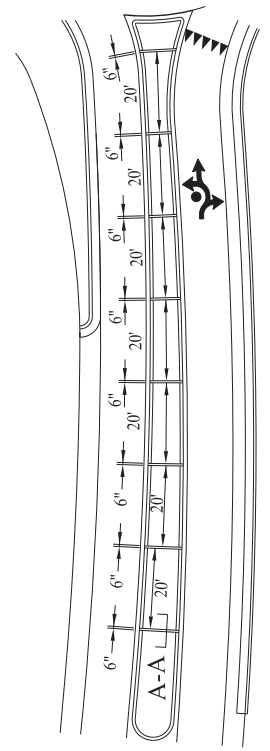


SECTION A-A



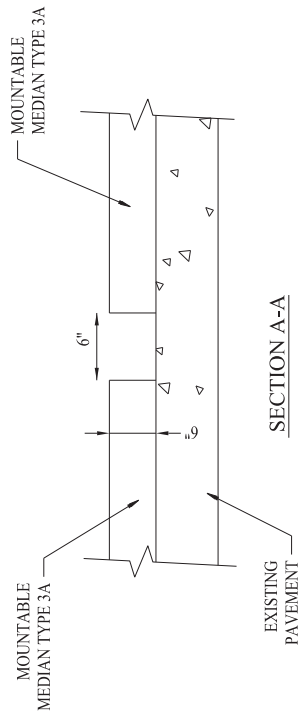
SECTION B-B

CURB CUT DETAIL



PLAN

- NOTES**
1. CURB CUTS SHALL BE INCIDENTAL TO THE MOUNTABLE MEDIAN TYPE 3A BID ITEM.



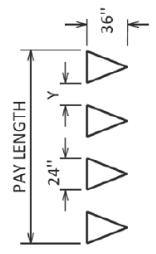
SECTION A-A

SCALE: 1"=10'
KY 229 AND KY 1189
MINI-ROUNDABOUT
FLUME INLET TYPE 1 MOD & CURB CUT DETAIL

COUNTY OF LAUREL	ITEM NO. 11-9016.10	SHEET NO. R21
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YIELD BAR PAVEMENT MARKING DETAIL

YIELD BAR DETAILS



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

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

Lane Width	# of Triangles	Spacing (Y)
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.

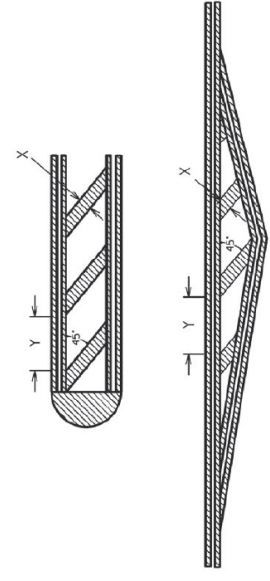
The Department will measure Yield Bars in Linear Feet. The measurement will include the void space between triangles. See Section 717.04 for additional measurement information.

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

Code	Pay Item	Pay Unit
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:

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

SCALE: 1"=10'
KY 229 AND KY 1189
MINI-ROUNDABOUT
PAVEMENT MARKING DETAILS

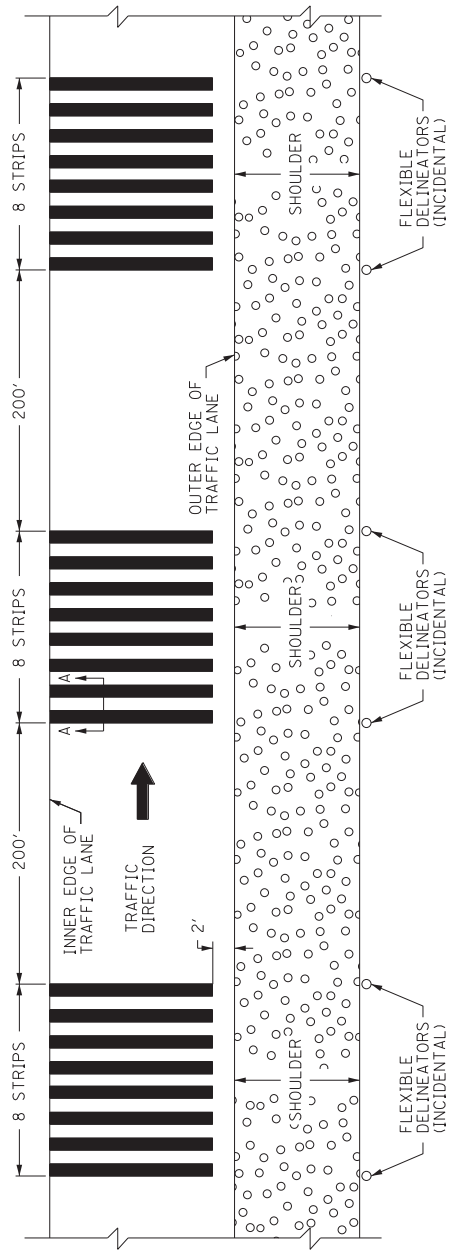
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	R22

NOTES.

- ① INSTALLATIONS SHALL INCLUDE 2 LAYERS OF THERMOPLASTIC MATERIAL, PROVIDING A TOTAL THICKNESS OF 3/8 INCH. THE WIDTH OF THE INDIVIDUAL STRIPS SHOULD BE 6 INCHES WITH A 24 INCH SPACE BETWEEN STRIPS.
- ② TRANSVERSE RUMBLE STRIPS SHALL CONTAIN THREE SETS OF EIGHT STRIPS WITH SETS SPACED APPROXIMATELY 200 FEET APART.
- ③ TRANSVERSE RUMBLE STRIPS SHALL NOT BE LOCATED IN CURVES OR WITHIN THE STOPPING DISTANCE FOR ACTUAL STOP CONDITIONS.
- ④ SINCE ALL ROADWAYS MAY HAVE CYCLISTS, INSTALLATION OF TRANSVERSE RUMBLE STRIPS SHALL NOT BE MADE WITHIN THE OUTER TWO FEET OF THE TRAVELED LANE UNLESS THERE IS A MINIMUM OF FOUR FEET OF PAVED SHOULDER, OUTSIDE THE NORMAL SHOULDER RUMBLE STRIPS, ALONG THE ROADWAY.
- ⑤ THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR AN EIGHT (8) STRIP WIDE UNIT SHALL INCLUDE ALL LABOR, FORMING, MATERIALS, AND INCIDENTAL NECESSARY TO COMPLETE THE WORK.
- ⑥ TWO FLEXIBLE DELINEATOR POSTS SHALL BE INSTALLED AT EACH LOCATION.
- ⑦ THE PAVEMENT SHALL BE CLEANED AND THE STRIPS SHALL BE CONSTRUCTED UNIFORMLY AT RIGHT ANGLES TO THE CENTER OF THE ROADWAY.
- ⑧ THE DELINEATOR UNIT SHALL BE CONSTRUCTED IN SUCH A MANNER THAT TOP OF THE DELINEATOR UNIT IS 4'-0" ABOVE TOP OF PAVEMENT.
- ⑨ THE REFLECTIVE SURFACE OF THE DELINEATOR UNIT SHALL FACE TRAFFIC AND POINT TOWARD THE CENTER LINE OF THE ROADWAY APPROXIMATELY ONE-FOURTH MILE AWAY

BID ITEM AND UNIT TO BID:
24097EC THERMO RUMBLE STRIPS TY 2 LF

THERMOPLASTIC
RUMBLE STRIPS TY 2



PLAN VIEW



SECTION A-A

SIGNING SUMMARY

ITEM	DESCRIPTION	UNIT	TOTAL PROJECT
6406	SBM ALUM SHEET SIGNS 1080 IN	SOFT	200
6407	SBM ALUM SHEET SIGNS 126 IN	SOFT	13
6410	STEEL POST TYPE I	LF	266
6490	CLASS A CONCRETE FOR SIGNS	CUYD	2
2137ND	REMOVE SIGN	EACH	6
21596ND	CLASS TYPE D	EACH	8
21596ND	CLASS TYPE D (SURFACE MOUNT)	EACH	4
2183NN	REMOVE AND RELOCATE SHEET SIGNS	EACH	1
2463IEC	BARCODE SIGN INVENTORY	EACH	68

STRIPING SUMMARY

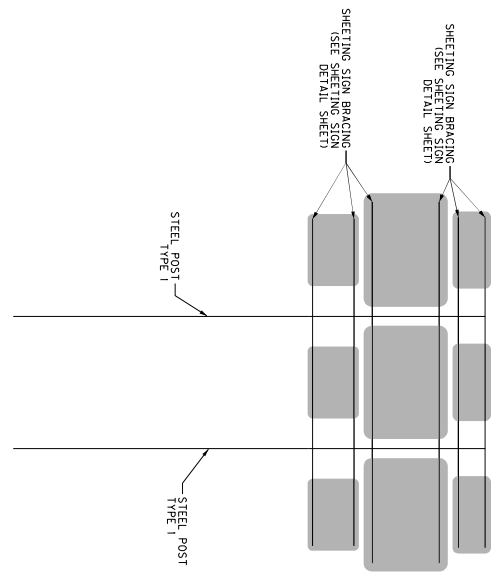
ITEM	DESCRIPTION	UNIT	TOTAL PROJECT
3225	TUBULAR MARKERS (PEXCO CITY POST EMBEDDED ANCHOR CUP)	EACH	12
6510	PAVE STRIPING-TEMP PAINT-4 IN	LF	6,650
6542	PAVE STRIPING-THERMO-6 IN W	LF	3,182
6543	PAVE STRIPING-THERMO-6 IN Y	LF	5,106
6546	PAVE STRIPING-THERMO-12 IN W (OPTICAL SPEED BARS)	LF	264
6569	PAVE MARKING-THERMO CROSS-HATCH	SOFT	1,866
6574	PAVE MARKING-THERMO CURV ARROW	EACH	10
6575	PAVE MARKING-THERMO COMB ARROW	EACH	4
22520N	PAVE MARKING-THERMO YIELD BAR-36 IN	LF	44
2463IEC	PAVE MARKING-THERMO DOTTED LANE EXTEN (WHITE)	LF	92
24097EC	THERMO RUBBLE STRIPS TY 2	LF	108

COUNT	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	T001

NOTES

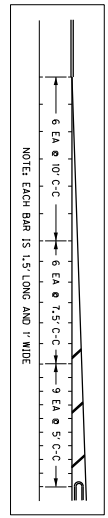
- WITH PERMISSION OF THE ENGINEER, SHEETING SIGNS ON THE EXISTING SIGNPOSTS MAY BE MOVED TO BE COMPATIBLE WITH THE EXISTING SIGNS.
- QUANTITY IS ESTIMATED. THE EXACT LENGTH SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- WHERE REQUIRED, BRACING FOR SHEETING SIGNS SHALL BE INCIDENTAL TO STEEL POST. SEE BRACING DETAIL AND SHEETING SIGN DETAIL SHEET FOR MORE INFORMATION.
- ALL MATERIALS REMOVED AND NOT REUSED, SUCH AS SIGNS, SIGN LIGHTS, SIGN SUPPORTS, ETC. SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- FOR TYPE D SURFACE MOUNTS USE ONLY KLEEN BREAK MODEL 425 FOR SURFACE MOUNT CONCRETE INSTALLATIONS BY THE CONTRACTOR. ALL SURFACING SHALL BE IN ACCORDANCE WITH THE CONTRACTOR SHALL SUBMIT ALL THE ENGINEER SHOP DRAWINGS OF THE TYPE D SURFACE MOUNTS.
- WHEN LISTED IN THE SUMMARIES, REFLECTIVE SIGN POST PANELS SHALL BE 3' WIDE. SIGN PANELS SHALL HAVE ONE HOLE IN THE BOTTOM 3" THAT ALIGN WITH THE HOLES ON THE HOLE IN THE TOP 3". ONE HOLE NEAR THE CENTER, AND ONE HOLE IN THE BOTTOM 3" THAT ALIGN WITH THE HOLES ON THE PANELS SHALL BE THE SAME TYPE AND COLOR AS THE SIGN INSTALLED ON THE POST.

BRACING DETAIL



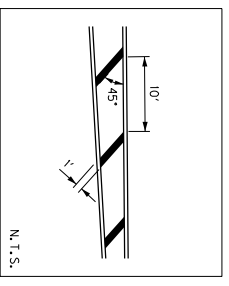
INSTALL ON TYPE D OWNI SLIP BASE ANCHORS.
SEE SHEETING SIGN DETAIL SHEET.
BRACING REQUIRED ON ASSEMBLIES: S3, S7, S11, AND S15

LAUREL COUNTY
MINI-ROUNDABOUT
SIGNING AND STRIPING SUMMARY

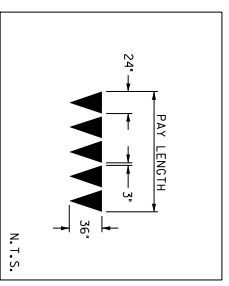


OPTICAL SPEED BAR DETAIL

CROSS-HATCH DETAIL



YIELD BAR DETAIL



COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	T002

SIGNING SPECIFICATION NOTES

THE FOLLOWING PUBLICATIONS ARE APPLICABLE TO THE ROAD DESCRIBED HEREIN:

- KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION)
- STANDARD SPECIFICATIONS FOR SIGNING (CURRENT EDITION)
- FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION)
- FEDERAL HIGHWAY ADMINISTRATION

SCOPE OF WORK

TO FURNISH, FABRICATE AND ERECT IN PLACE ALL MATERIALS NECESSARY TO FORM COMPLETE SIGNS AS INDICATED AT LOCATIONS DESCRIBED ELSEWHERE IN THESE PLANS. NEW SIGNS ARE TO BE INSTALLED AT EXISTING LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

SIGN SUBSTRATES

SIGN SUBSTRATES SHALL CONFORM TO SECTION 833 OF KENTUCKY'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THESE PLANS. PANEL SIGNS SHALL BE LABELED AS P-*, SHEETING SIGNS SHALL BE LABELED AS S-*,

SIGN MATERIALS

SIGN SHEETING SHALL CONFORM TO SECTION 830 OF KENTUCKY'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THESE PLANS. ONLY SHEETING ON THE DEPARTMENT'S LIST OF APPROVED MATERIALS SHALL BE USED. ALL RETROREFLECTIVE MATERIALS SHALL BE FABRICATED AND ASSEMBLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS.

- PERMANENT SIGNS AND SIGN COMPONENTS SHALL BE FABRICATED USING TYPE XI SHEETING;
- THE FOLLOWING SIGNS SHALL BE FABRICATED USING TYPE XI FLUORESCENT YELLOW SHEETING:
- HORIZONTAL ALIGNMENT SIGNS AND PLAQUES
 - ALL ADVISORY SPEED PLAQUES
 - WARNING MESSAGES ON PANEL SIGNS

- THE FOLLOWING SIGNS SHALL BE FABRICATED USING TYPE XI FLUORESCENT YELLOW-GREEN SHEETING:
- ALL SCHOOL AND SCHOOL BUS WARNING SIGNS,
 - BICYCLE WARNING SIGNS AND 'SHARE THE ROAD' PLAQUES OR DIAGONAL DOWNWARD POINTING ARROW PLAQUES THAT SUPPLEMENT BICYCLE WARNING SIGNS,
 - PEDESTRIAN WARNING SIGNS AND DIAGONAL DOWNWARD POINTING ARROW PLAQUES THAT SUPPLEMENT PEDESTRIAN WARNING SIGNS
 - 'NIGHT STREET' PEDESTRIAN CROSSING (R-6) SIGNS AND OVERHEAD PEDESTRIAN CROSSING (R-9) SIGNS LISTED ABOVE

ALL OTHER PERMANENT SIGNS (INCLUDING THE BACKGROUNDS OF PANEL SIGNS) SHALL BE FABRICATED USING TYPE XI SHEETING.

LETTERS, SYMBOLS, AND BORDERS

PANEL OVERLAY SECTIONS SHALL BE AFFIXED WITH A "POP" RIVET WITH A MINIMUM DIAMETER OF 3/16 INCH, AND THE LENGTH SHALL BE AS NECESSARY TO PROPERLY APPLY COPY IN A WORKMANLIKE MANNER.

HARDWARE

ALL HARDWARE FOR THE ASSEMBLY OF PANEL SIGNS AND THE ATTACHMENT OF THESE SIGNS TO THEIR SUPPORTS SHALL BE AS RECOMMENDED BY THE PANEL MANUFACTURER. PLACEMENT OF POST CLIP SHALL BE AS SHOWN ON THE SIGNING MISCELLANEOUS DETAIL SHEET.

ALL HARDWARE FOR THE ERECTION OF SHEETING SIGNS SHALL BE CADMIUM PLATED STEEL IN ACCORDANCE WITH ASTM B-776 AND ASTM A-307.

EXONLS

STANDARD ALPHABETS SHALL BE USED FOR ALL LEGENDS ON PANEL GUIDE SIGNS.

GROUND-MOUNTED SIGN SUPPORTS

GENERALLY

ALL SIGNS SHALL BE POSITIONED AS SHOWN ON THE POSITIONING DETAIL SHEET. ALL BEAMS AND POSTS SHALL BE OF SUFFICIENT LENGTHS TO EXTEND FROM THE TOP OF THE SIGN TO THE REQUIRED BASE EMBEDMENT. EXISTING T-BEAMS ON WHICH SHEETING SIGNS ARE ATTACHED SHALL BE REMOVED AND REPLACED WITH TYPE I OR TYPE II POSTS, UNLESS THEY ARE LOCATED BEHIND GUARDRAIL.

BEAMS

ALL BEAMS SHALL BE EITHER TYPE 'A' (STANDARD BEAM INSTALLATION) OR TYPE 'C' (BREAKAWAY SIGN POST SUPPORT SYSTEM) INSTALLATION. TYPE 'A' BEAMS ARE SHOWN ON THE PANEL SIGN POSITIONING DETAIL SHEET. TYPE 'C' BEAMS ARE SHOWN ON THE BREAKAWAY SIGN POSITIONING DETAIL SHEET. ONLY BREAKAWAY (TYPE 'C') BEAM SUPPORT SYSTEMS ON THE DEPARTMENT'S LIST OF APPROVED MATERIALS SHALL BE USED. THE TYPE AND SIZE OF BEAM TO BE USED SHALL BE INDICATED FOR EACH PANEL SIGN ON THE SIGN DETAIL SHEETS. BEAM LENGTHS INCLUDED IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AT EACH SIGN LOCATION AND CROSS SECTIONS SHALL BE DEVELOPED TO VERIFY BEAM LENGTHS, WITH ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

STEEL POSTS:

TYPE I AND II STEEL POSTS SHALL BE EITHER STANDARD INSTALLATION IN SOIL WITH SOIL STABILIZER, OR TYPE 'D' (BREAKAWAY SIGN POST SUPPORT SYSTEM) INSTALLATION. ONLY BREAKAWAY TYPE 'D' POST SYSTEMS ON THE DEPARTMENT'S LIST OF APPROVED MATERIALS SHALL BE USED. BRACING, IF REQUIRED, SHALL BE INCIDENTAL TO TYPE I POST. TYPE II POSTS SHALL BE STANDARD INSTALLATION IN SOIL WITH A SOIL STABILIZER. BRACING, IF REQUIRED, SHALL BE INCIDENTAL TO TYPE II POST. ALL STEEL POSTS SHALL MEET THE REQUIREMENTS OF SECTION 832 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

MILEPOST MARKERS AND ENHANCED REFERENCE MARKERS

THE GENERAL REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION), ADDITIONAL REQUIREMENTS ARE GIVEN ON THE SIGNING POSITIONING DETAIL SHEET AND ENHANCED REFERENCE LOCATION SIGNS DETAIL SHEET.

FOR THE LOUISVILLE AREA, FINAL LOCATION OF ENHANCED REFERENCE LOCATION SIGNS SHALL BE VERIFIED BY THE KY DOT REPRESENTATIVE OF TRIMARC AT LEAST TWO WEEKS IN ADVANCE OF BEGINNING WORK ON THIS ITEM.

901 WEST MAIN STREET
LOUISVILLE, KY 40202
502-587-6624
270-307-1456

MEDIAN CROSSOVER SIGNS

THE CONTRACTOR SHALL INSTALL 48" X 48" 'NO U-TURN' SIGNS (R3-4) AT EACH MEDIAN CROSSOVER. THIS IS TO BE DONE WHETHER ALL NEEDED INSTALLATIONS ARE MENTIONED IN THE FOLLOWING SHEETS OR NOT. AT CROSSOVERS ON MEDIANS SIXTY FEET (60') WIDE OR LESS, THE SIGNS SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY ON THE SAME POSTS IN THE CENTER OF THE MEDIAN, ONE FACING TRAFFIC IN EACH DIRECTION. AT CROSSOVERS ON MEDIANS OVER SIXTY FEET (60') WIDE, THE SIGNS SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY ON SEPARATE POSTS AT THE MEDIAN SHOULDER ON THE FAR SIDE OF THE CROSSOVER, ONE FACING TRAFFIC IN EACH DIRECTION. FOR ADDITIONAL GUIDANCE, SEE SEPIA DRAWING FOR FLEXIBLE DELINEATOR POST ARRANGEMENT FOR INTERCHANGE RAMP AND CROSSOVERS.

CONCRETE BASES

ALL CONCRETE BASES SHALL BE OF CLASS 'A' CONCRETE FOR SIGNS AND SHALL BE AS SHOWN ON THE SIGNING MISCELLANEOUS DETAIL SHEETS. EXCAVATION NECESSARY TO CONSTRUCT BASES AND FOOTINGS IS INCIDENTAL TO THE COST OF CLASS 'A' CONCRETE FOR SIGNS.

CONCRETE BASES (CONTINUED)
WHERE THE REMOVAL OF OVERHEAD STRUCTURE CONCRETE BASE IS CALLED FOR, THE BASE IS TO BE REMOVED TO A MINIMUM OF ONE FOOT (1') BELOW THE GROUND LINE, BACKFILLED TO EXISTING GROUND LINE, AND THE DISTURBED AREAS RESEDED.

WHERE THE REMOVAL OF BEAM SIGN SUPPORTS IS CALLED FOR, THE BEAM AND ANY CONCRETE PROJECTING ABOVE THE GROUND LINE ARE TO BE CUT OFF A MINIMUM OF ONE FOOT (1') BELOW EXISTING GROUND LINE OR THE ENTIRE BEAM AND CONCRETE BASE ARE TO BE REMOVED COMPLETELY AND BACKFILLED TO EXISTING GROUND LINE.

SAMPLES, TESTING, ETC.

BEFORE BEGINNING INSTALLATION, THE CONTRACTOR SHALL FURNISH TO THE PROJECT ENGINEER DRAWINGS, DESCRIPTIONS, MANUFACTURER'S CUTS ETC. FOR WRITTEN APPROVAL OF ALL MATERIALS 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.

MISCELLANEOUS

THE COST FOR REMOVING EXISTING PANEL SIGNS SHALL BE INCIDENTAL TO THE COST OF THE PROJECT.
ON SHEETING SIGNS WHERE THERE ARE MORE THAN ONE SIGN ASSEMBLY MOUNTED BESIDE EACH OTHER, THE POSTS SHALL BE SPACED TO PROVIDE APPROXIMATELY SIX INCHES (6") OF SPACING BETWEEN SIGNS.
CLEARING AND GRUBBING, AND TREE TRIMMING, WHEN REQUIRED FOR CONSTRUCTION OR VISIBILITY OF SIGNS, SHALL BE INCIDENTAL TO THE CONTRACT.

SIGN COVERING IS NOT RECOMMENDED. HOWEVER, IF IT IS ABSOLUTELY NECESSARY TO COVER THE SIGN FACE TEMPORARILY FOLLOWING ERECTION, USE CAUTION SINCE SOME COVERINGS MAY CAUSE PERMANENT DAMAGE TO THE SIGN FACE FOLLOWING EXPOSURE TO MOISTURE, SUNLIGHT, ETC., POROUS CLOTH OR GEOTEXTILE FABRIC COVERS WHICH ARE FOLDED OVER THE SIGN EDGES AND SECURED AT THE BACK OF THE SIGN HAVE BEEN USED SUCCESSFULLY FOR LIMITED PERIODS. DO NOT USE TAPE, PAPER, PLASTIC, OR SHEET METAL COVERS. SIGN COVERS THAT ARE DAMAGED AS A RESULT OF COVERING SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.

TYPE I AND II STEEL POSTS IN SOIL SHALL BE DRIVEN 32 TO 34" BELOW THE GROUND LINE AS SHOWN. HOWEVER, IF SOIL ROCK IS ENCOUNTERED, THE CONTRACTOR SHALL DRILL HOLES OF THE REQUIRED DEPTH INTO THE ROCK AND BACKFILL WITH CONCRETE. THE SOIL SHALL BE INCIDENTAL TO STEEL POST, AND SOIL STABILIZERS WILL NOT BE REQUIRED.
ANY AREA DISTURBED SHALL BE SIDE GRADED TO THE EXISTING SLOPES AND RESEDED AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE DEPARTMENT.
REMOVE AND DO NOT REPLACE THE WHITE ON BLUE GENERAL SERVICES SIGNS AT THE EXIT RAMP TERMINALS, EMERGENCY STOPPING ONLY SIGNS, AND THE ROUTE MARKER THAT IS LOCATED INSIDE THE INTERCHANGE PAST THE EXIT GOPE AREA.
INSTALLATION OF ADVISORY EXIT AND RAMP SPEED SIGNS (W3-2 AND W3-3) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

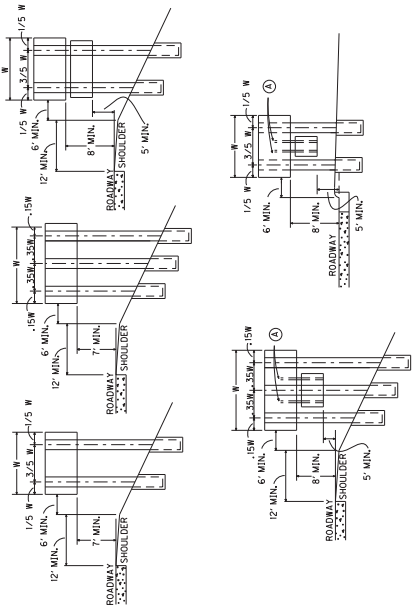
ALL EXISTING SHEETING SIGNS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REMOVED AND REPLACED WITH NEW SIGNS AND POSTS. SIGNS AND POSTS SHALL CONFORM TO CURRENT STANDARDS/SPECIFICATIONS. THE COST FOR REMOVING EXISTING SHEETING SIGNS AND POSTS, RELOCATING EXISTING SIGNS AND POSTS TO CONFORM TO THE SIGNING PLANS AND SPECIFICATIONS, AND ALL HARDWARE REQUIRED, SHALL BE INCIDENTAL TO THE PROJECT. IN ADDITION TO REPLACING ALL EXISTING SIGNS, ALL SIGNS SHOWN ON THE SIGNING PLANS MUST BE INSTALLED. FOR SIGN SIZES AND SPECIFICATIONS, SEE THE CURRENT PROJECT SIGNING PLAN DETAIL SHEETS.
THE COST FOR SIGN BRACKETS AND ANY OTHER HARDWARE REQUIRED TO ATTACH NEW SIGNS ON EXISTING TRUSSES AND CANTILEVERS SHALL BE INCLUDED IN THE UNIT PRICE OF SIGN BASE MATERIAL FOR PANEL SIGNS.
DUPLICATE SIGNS SHALL NOT BE DISPLAYED DURING THE CONSTRUCTION OF THIS PROJECT.
SHEETING SIGNS (01-1, 01-2, 01-3) EQUAL TO OR LESS THAN 72" X 42" REQUIRE TWO TYPE I OR TYPE II POSTS.

THE HORIZONTAL CLEARANCE *Y ON ALL THE SHEETING SIGNS SHOULD BE A MINIMUM OF 6" FROM THE SIGN TO THE EDGE OF THE SHOULDER OR THE EDGE OF THE SIGN TO THE EDGE OF THE TRAVELLED WAY AS SHOWN IN THE SIGNING POSITIONING DETAIL SHEET.

IF ANY SIGN IS LOCATED NEAR A LUMINAIRE OR ANOTHER POLE, IT SHALL BE INSTALLED IN ADVANCE OF THE POLE SO THAT THE MOTORIST'S VIEW OF THE SIGN WILL NOT BE OBSTRUCTED. SIGNS THAT DO NOT COMPLY WITH THE MUTCD SHALL BE REMOVED BY THE CONTRACTOR AS APPROVED AND DIRECTED BY THE ENGINEER.

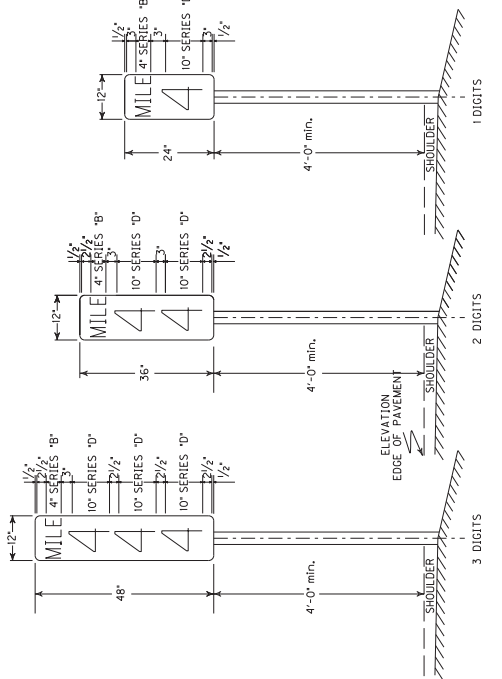
COUNTY OF
LAUREL
ITEM NO.
11-9016.10
SHEET NO.
T003

PANEL SIGNS



ATTACHMENT OF SECONDARY SIGN TO MAJOR SIGN IS TO BE MADE WITH TWO (2) 3/4" X 3/4" X 3/8" ANGLES OF SUFFICIENT STRENGTH TO WITHSTAND WIND. SECONDARY SIGN TO BE PLACED ON THE BACK OF THE MAJOR SIGN. A MINIMUM OF ONE POST CLIP PER FOOT SHALL BE USED IN ATTACHING EXTRUSIONS TO EACH ANGLE.

MILEPOST MARKERS

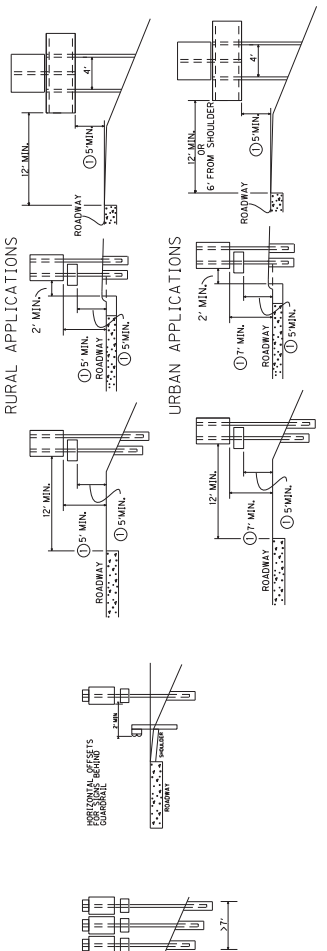


TYPICAL SIGN PANEL DIMENSIONS AND MILEPOST LOCATIONS

MILE POST NUMBER	STATION NUMBER * BOUND LANE (S)

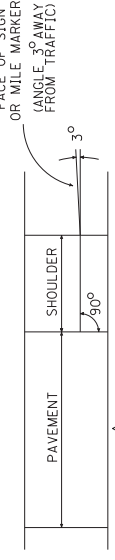
NOTE: STATION NUMBERS ARE GIVEN FOR NOTED DIRECTION OF TRAVEL ONLY. CORRESPONDING MILEPOST MARKERS FOR OTHER DIRECTIONS SHOULD BE PLACED DIRECTLY OPPOSITE THOSE FOR WHICH STATION NUMBERS ARE GIVEN.
IN WHEATON COUNTY, FINAL LOCATION OF MILEPOST MARKERS SHALL BE VERIFIED BY TRIMARC NOTIFY TRIMARC AT LEAST TWO WEEKS PRIOR TO BEGINNING WORK ON THIS ITEM.
801 WEST MAIN STREET
LOUISVILLE, KY 40202
502-581-6624
270-307-7456

SHEETING SIGNS



NOTE: SHOULD A SIGN BE LOCATED AT A POINT WHERE GUARDRAIL IS CALLED FOR OR EXISTING, ALL SIGN SUPPORTS SHALL BE PLACED BEHIND THE GUARDRAIL AND LATERAL OFFSET SHALL BE MEASURED FROM THE GUARDRAIL.
⊙ NOT TO EXCEED 8' IN URBAN AREAS AND 6' IN RURAL AREAS UNLESS SPECIFIED BY THE ENGINEER

ORIENTATION ANGLE



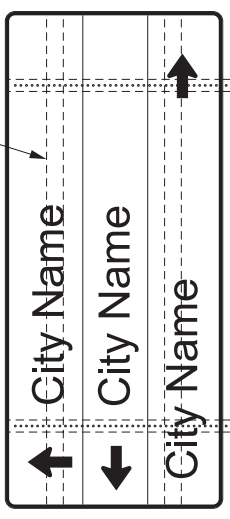
FACE OF SIGN OR MILE MARKER (ANGLE 3° AWAY FROM TRAFFIC)

TRAFFIC

SIGNING POSITIONING DETAIL SHEET

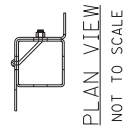
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	T004

SEE SHEETING SIGN DETAIL SHEET 2 OF 2 FOR BRACING REQUIREMENTS



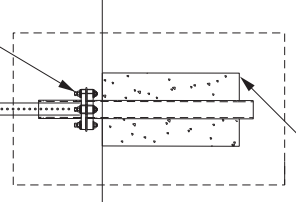
NOTE: SEE SIGN DETAIL SHEETS FOR QUANTITY, LENGTH, SIZE AND GAUGE OF TYPE I POSTS

PLAN VIEW
NOT TO SCALE

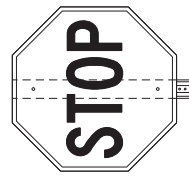


PLAN VIEW
NOT TO SCALE

SEE MANUFACTURER'S SPECIFICATIONS



TYPE I
SQUARE TUBING POST
WITH TYPE "D" SUPPORT

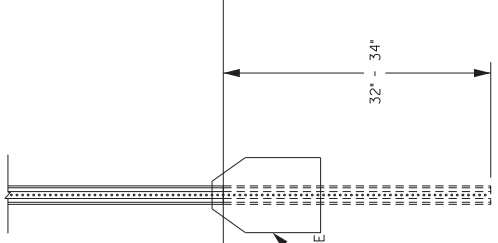


PLAN VIEW
NOT TO SCALE

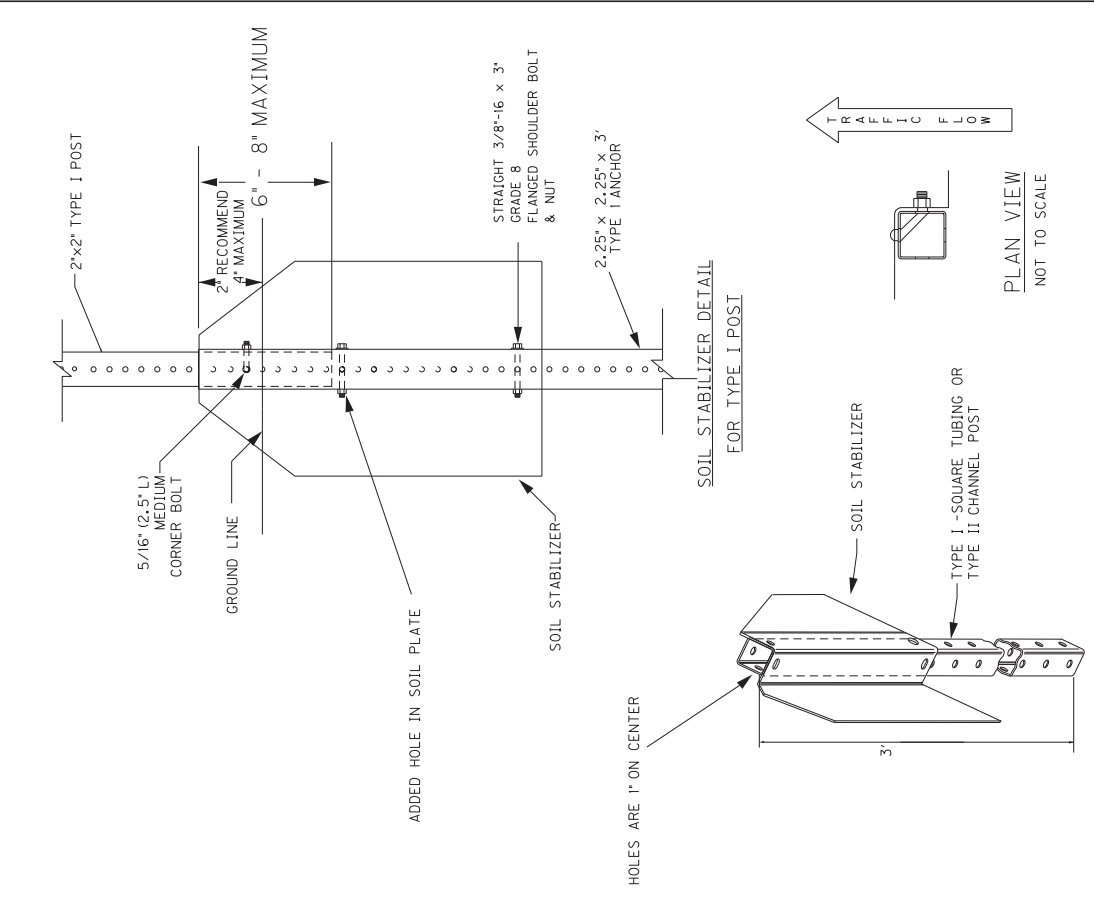


PLAN VIEW
NOT TO SCALE

FOR SIGN INSTALLATIONS, NOT EMBEDDED IN CONCRETE, INSTALL SOIL STABILIZING PLATE ON BACKSIDE OF POST, FROM TRAFFIC FLOW



TYPE II
CHANNEL POST
WITH SOIL STABILIZER



PLAN VIEW
NOT TO SCALE

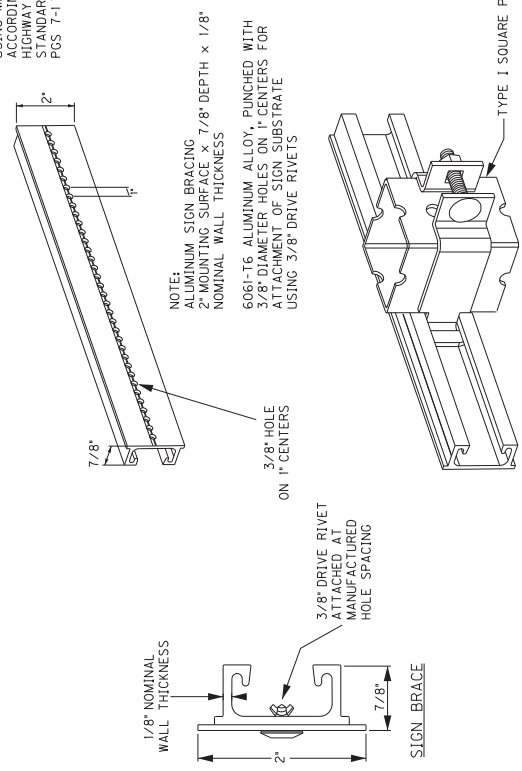
SOIL STABILIZER DETAIL

SOIL STABILIZER DETAIL
FOR TYPE I POST

SHEETING SIGN DETAIL
SHEET 1 OF 2

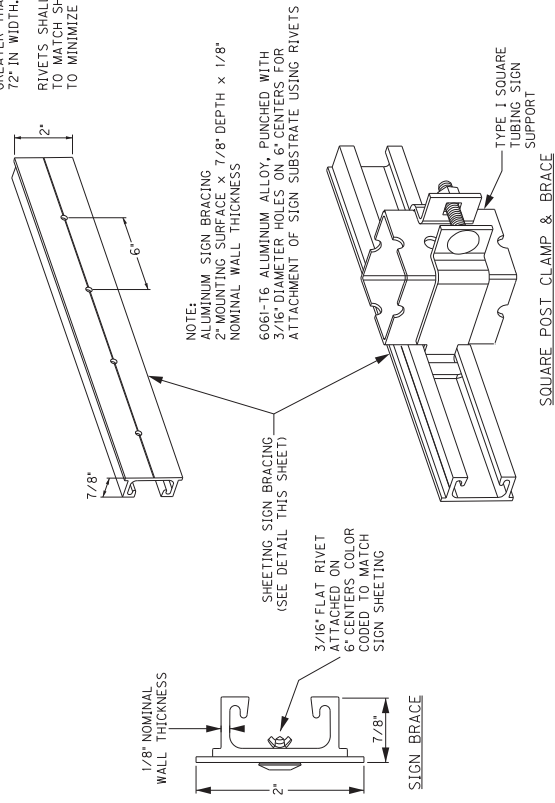
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	T005

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

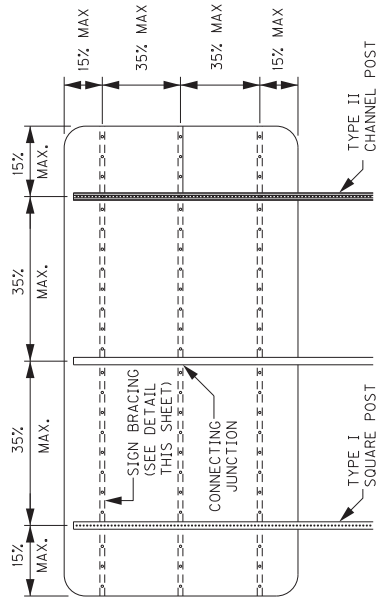


SQUARE POST CLAMP & BRACE

FOR ATTACHMENT OF SIGNS GREATER THAN, OR EQUAL TO, 72" IN WIDTH.



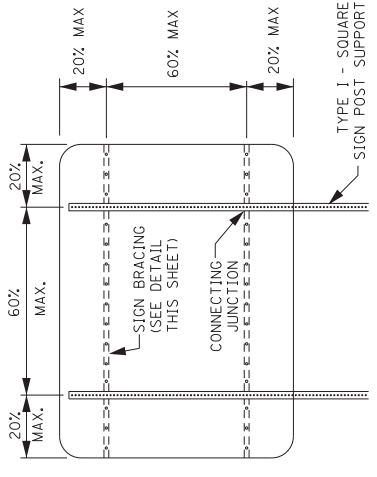
SQUARE POST CLAMP & BRACE



3 POST - BRACING DIAGRAM

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

2. BRACING SHOULD NOT BE SPLICED WITHIN 6' OF A BRACE TO POST JUNCTION.



2 POST - BRACING DIAGRAM

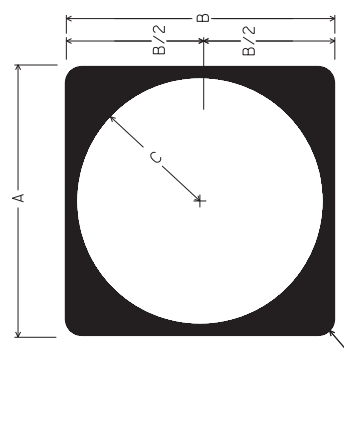
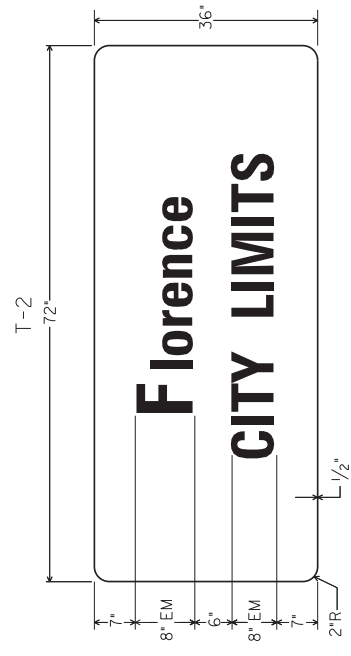
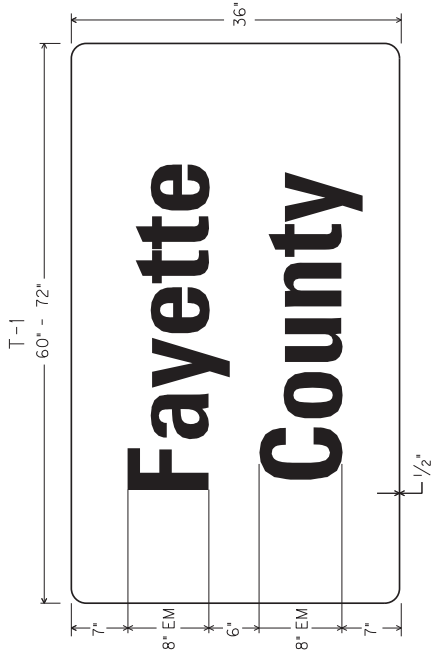
NOTE:
USE OF SIGN BRACING NOT SHOWN ON THIS SHEET MAY BE PERMITTED BY PROJECT ENGINEER AND/OR DISTRICT TRAFFIC ENGINEER.

NOT TO SCALE
SHEETING SIGN DETAIL
SHEET 2 OF 2

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	T006

Power InRoads v8.11.937
E-SHEET NAME:
DATE PLOTTED: May 24, 2022
USER: Brittnys

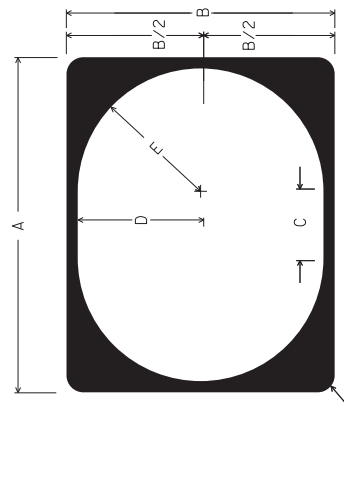
FILE NAME: K:\19060-3 HSIP 0-II-MINI ROUNDABOUTS\CAD\CURRENT DRAWINGS\LAUREL_FINAL PLANS\7006 GEN TYP STD SIGNS DETAIL SHEET111.DGN



MI-5 (1 OR 2 DIGIT)

	A	B	C	FONT
				3 DIGIT
CONVENTIONAL	24"	24"	11"	12D
EXPRESSWAY / FREEWAY	36"	36"	17"	18D

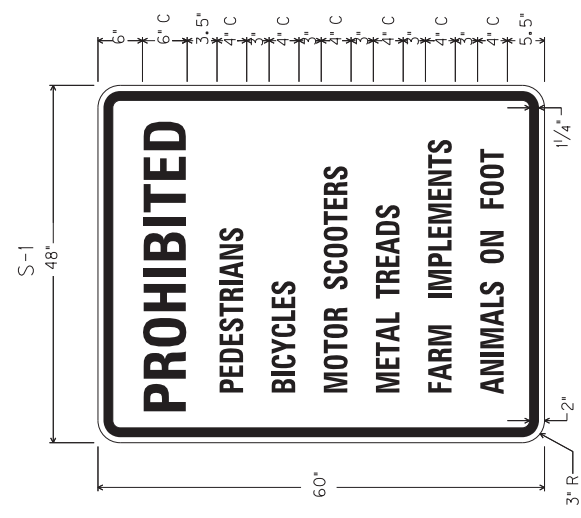
NOTE: FOR ROUTE MARKERS, IF NECESSARY, ADJUSTMENTS TO THE DIGIT LAYOUT AND/OR FONT TYPE MAY BE MADE TO ENSURE VISUAL ACUITY



MI-5 (3 OR 4 DIGIT)

	A	B	C	D	E	FONT	
						3 DIGIT	4 DIGIT
CONVENTIONAL	30"	24"	6"	11"	11"	12D	12B
EXPRESSWAY / FREEWAY	45"	36"	9"	16.5"	16.5"	18D	18B

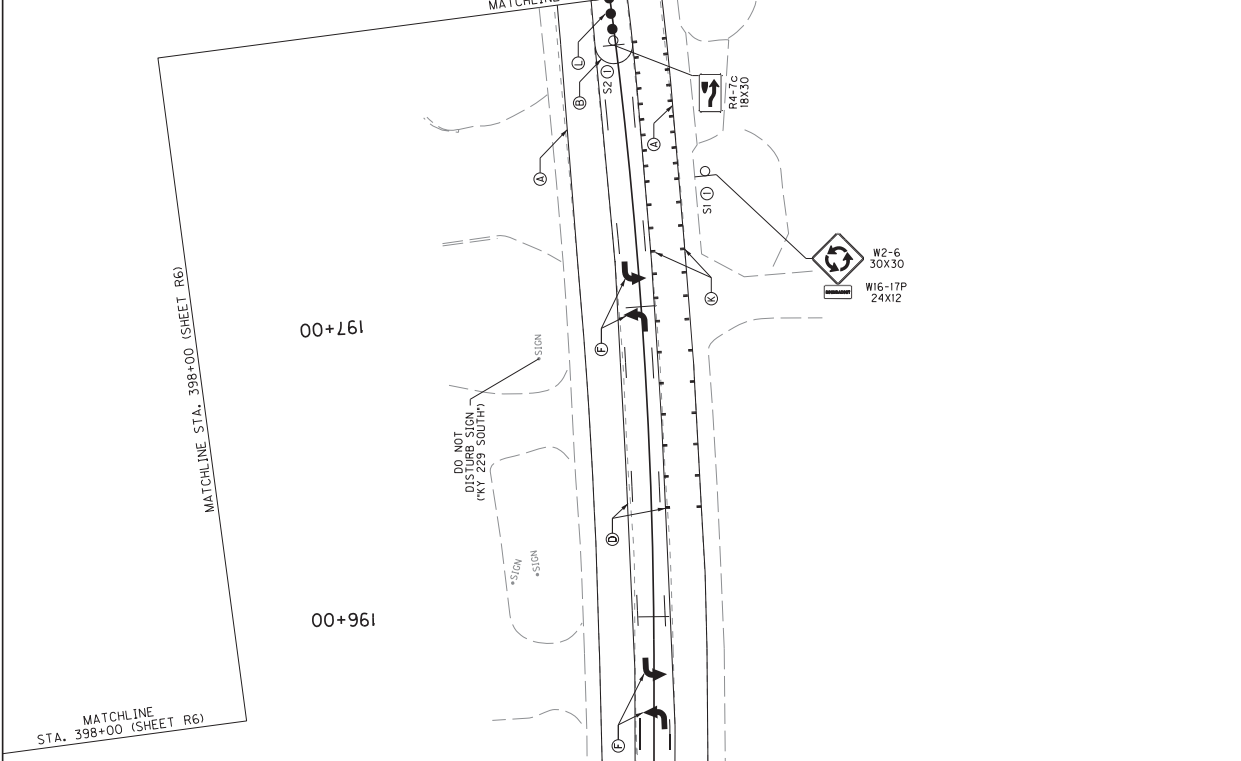
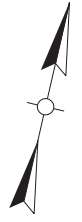
NOTE: EXPRESSWAY/FREEWAY DEFINED AS A DIVIDED HIGHWAY WITH PARTIAL OR FULL CONTROL OF ACCESS



NOT TO SCALE

TYPICAL SIGNS

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	T007

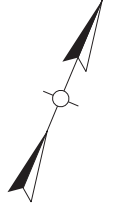


PLAN NO.	ITEM NUMBER	ITEM	SHEET TOTAL
1	3225	TUBULAR MARKERS (PEXCO CITY POST EMBEDDED ANCHOR CUP)	3 EACH
2	6542	PAVE STRIPING-THERMO-6 IN W	828 LF
3	6543	PAVE STRIPING-THERMO-6 IN Y	60 LF
4	6543	PAVE STRIPING-THERMO-6 IN Y (DOUBLE)	470 LF
5	6543	PAVE STRIPING-THERMO-6 IN Y (SOLID-DASHED)	1,144 LF
6	6546	PAVE STRIPING-THERMO-12 IN W (OPTICAL SPEED BARS)	66 LF
7	6559	PAVE MARKING-THERMO CROSS-HATCH	1,391 SQFT
8	6574	PAVE MARKING-THERMO CURV ARROW	4 EACH

- NOTES**
- INSTALL REFLECTIVE SIGN POST PANEL ON POSTS; SEE SHEETING SIGN SUMMARY FOR MORE DETAILS.
 - CROSS-HATCH TO BE INSTALLED WITH 1 FT WIDTH AND 10 FT SPACING.
 - YIELD BAR TO BE INSTALLED WITH 2 FT WIDTH AND 3' SPACING.
 - INSTALL TEMPORARY THERMO RUMBLE STRIPS TYPE 2 ON THE KY 1189 APPROACH LEGS 550 FT, 650 FT, AND 800 FT PRIOR TO THE ROUNDABOUT.
 - DOTTED LANE EXTENSION MARKINGS SHALL BE W/PE LINE SEGMENTS WITH 2 FT SPACING.
 - CONSTRUCT TUBULAR MARKERS ON MOUNTABLE SIGN TYPE 3A SPLITTER ISLANDS AT 5' SPACING.

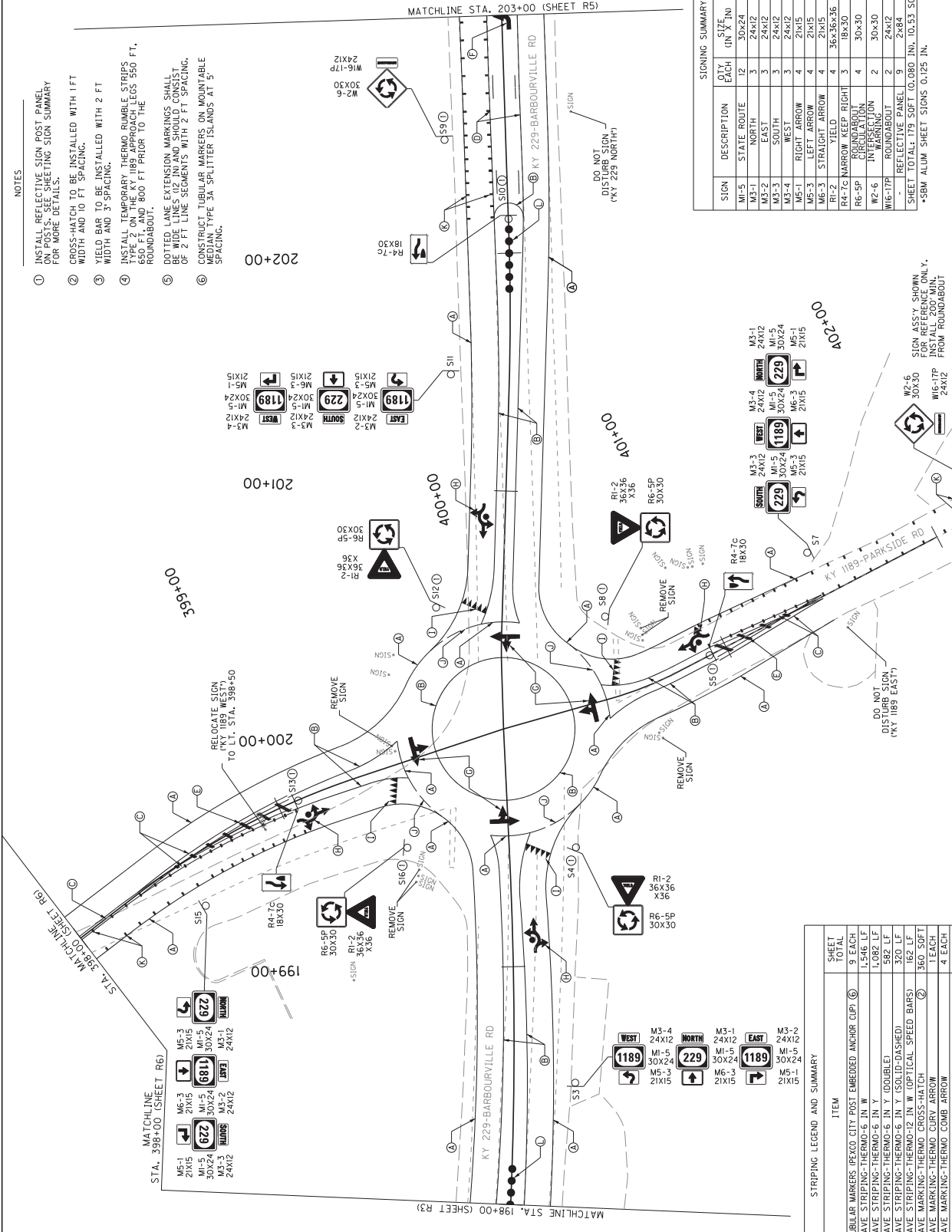
SIGNING SUMMARY				
SIGN	DESCRIPTION	QTY. EACH	UNIT SIZE (IN X IN)	TOTAL AREA SQ. FT.
R4-7C	NARROW KEEP RIGHT	1	18x30	3.75
W2-6	INTERSECTION WARNING	1	30x30	6.25
W16-17P	ROUNDABOUT REFLECTIVE PANEL	1	24x32	1.7
SHEET	TOT. SQ. FT. (0.080 IN. x 117 SQFT (0.125 IN. x 55M ALUM SHEET SIGNS 0.125 IN.			11.7*

COUNTY OF	LAUREL
ITEM NO.	11-9016.10
SHEET NO.	T008



NOTES

1. INSTALL REFLECTIVE SIGN POST PANEL FOR MORE DETAILS.
2. CROSS-HATCH TO BE INSTALLED WITH 1 FT WIDTH AND TO FT SPACING.
3. YIELD BAR TO BE INSTALLED WITH 2 FT WIDTH AND 3 SPACING.
4. INSTALL TEMPORARY THERMO RUMBLE STRIPS 650 FT, AND 800 FT PRIOR TO THE ROUNDABOUT.
5. DOTTED LANE EXTENSION MARKINGS SHALL BE WIDE LINES (02 IN) AND SHOULD CONSIST OF 2 FT LINE SEGMENTS WITH 2 FT SPACING.
6. CONSTRUCT TUBULAR MARKERS ON MOUNTABLE MEDIAN TYPE 3A SPLITTER ISLANDS AT 5' SPACING.



202+00

201+00

200+00

199+00

STATION	DESCRIPTION	QTY	SIZE (IN X IN)	UNIT AREA (SQ FT)	TOTAL AREA (SQ FT)
M1-5	STATE ROUTE	12	30X24	5	60
M3-1	NORTH	3	24X12	2	6
M3-2	EAST	3	24X12	2	6
M3-3	SOUTH	3	24X12	2	6
M3-4	WEST	3	24X12	2	6
M5-1	RIGHT ARROW	4	21X15	2.19	8.76
M5-2	LEFT ARROW	4	21X15	2.19	8.76
M5-3	STRAIGHT AHEAD	4	21X15	2.19	8.76
R4-7C	NARROW KEEP RIGHT CIRCULATION	3	36X36	3.75	11.25
R6-5P	ROUNDABOUT WARNING	4	30X30	6.25	25
W6-17P	ROUNDABOUT	2	24X12	2	4
-	REFLECTIVE PANEL	9	2x84	1.17*	10.53*

SHEET TOTAL: 179 SQ FT (0.080 IN), 10.53 SQ FT (0.125 IN)
*SBM ALUM SHEET SIGNS 0.125 IN.

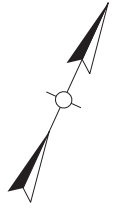
PLAN NO.	ITEM NUMBER	ITEM	SHEET TOTAL
	3225	TUBULAR MARKERS (PEXCO CITY-POST EMBEDDED ANCHOR CUP)	9 EACH
	6542	PAVE STRIPING-THERMO-6 IN W	1,546 LF
	6543	PAVE STRIPING-THERMO-6 IN Y	1,082 LF
	6543	PAVE STRIPING-THERMO-6 IN Y (DOUBLE)	582 LF
	6543	PAVE STRIPING-THERMO-6 IN Y (SOLID-DASHED)	320 LF
	6546	PAVE STRIPING-THERMO-12 IN W (OPTICAL SPEED BARS)	162 LF
	6574	PAVE MARKING-THERMO CURV ARROW	360 SQ FT
	6574	PAVE MARKING-THERMO CURV ARROW	4 EACH
	6574	PAVE MARKING-THERMO CURV ARROW (SPECIAL-FISH HOOK)	4 EACH
	22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN	44 LF
	24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN (WHITE)	92 LF
	24037EC	THERMO RUMBLE STRIPS TY 2	54 LF

SCALE: 1"=20'



KY 229 AND KY 189
MINI-ROUNDABOUT
SIGNING AND STRIPING PLAN SHEET 2

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	T009

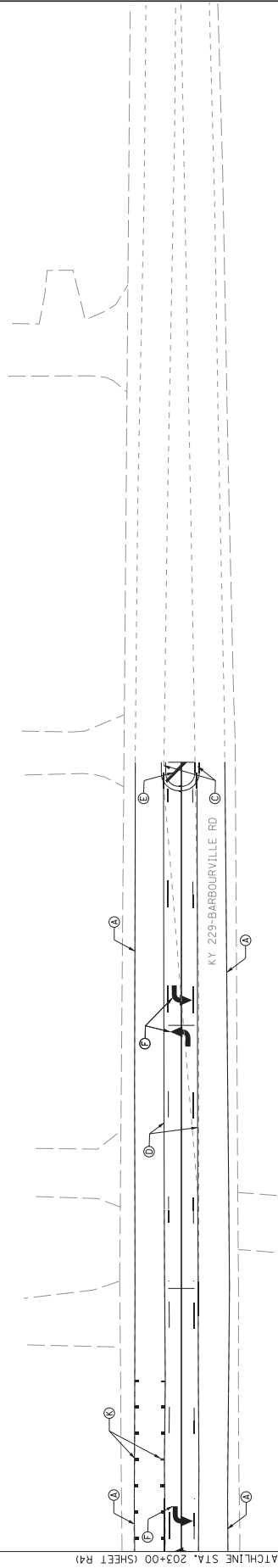


STRIPING LEGEND AND SUMMARY

PLAN ID	ITEM NUMBER	ITEM	SHEET TOTAL
(A)	6542	PAVE STRIPING-THERMO-C IN W	600 LF
(B)	6543	PAVE STRIPING-THERMO-C IN Y (DOUBLE)	156 LF
(C)	6543	PAVE STRIPING-THERMO-C IN Y (SOLID-DASHED)	184 LF
(D)	6543	PAVE STRIPING-THERMO-C IN Y (SOLID)	184 LF
(E)	6549	PAVE STRIPING-THERMO-C (SPLITTER ISLANDS)	113 SOFT
(F)	6574	PAVE MARKING-THERMO CURVY ARROW	5 EACH

- NOTES
- INSTALL REFLECTIVE SIGN POST PANEL ON POSTS. SEE SHEETING SIGN SUMMARY FOR MORE DETAILS.
 - CROSS-HATCH TO BE INSTALLED WITH 1 FT WIDTH AND 10 FT SPACING.
 - YIELD BAR TO BE INSTALLED WITH 2 FT WIDTH AND 3" SPACING.
 - INSTALL TEMPORARY THERMO RUMBLE STRIPS TYPE 2 ON THE KY 1189 APPROACH LEGS 550 FT, 650 FT, AND 800 FT PRIOR TO THE ROUNDABOUT.
 - DOTTED LANE EXTENSION MARKINGS SHALL BE INSTALLED WITH A SPACING OF 2 FT LINE SEGMENTS WITH 2 FT SPACING.
 - CONSTRUCT TRIANGULAR MARKERS ON MOUNTABLE MEDIAN TYPE 3A SPLITTER ISLANDS AT 5' SPACING.

204+00 205+00 206+00

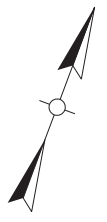


+SIGN
+SIGN



KY 229 AND KY 1189
MINI-ROUNDABOUT
SIGNING AND STRIPING PLAN SHEET 3

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	T010



- NOTES**
- INSTALL REFLECTIVE SIGN POST PANEL ON POSTS. SEE SHEETING SIGN SUMMARY FOR MORE DETAILS.
 - CROSS-MATCH TO BE INSTALLED WITH 1 FT WIDTH AND 10 FT SPACING.
 - YIELD BAR TO BE INSTALLED WITH 2 FT WIDTH AND 3" SPACING.
 - INSTALL TEMPORARY THERMO RUMBLE STRIPS TYPE 2 ON THE KY 1189 APPROACH LEGS 550 FT, 650 FT, AND 800 FT PRIOR TO THE ROUNDABOUT.
 - DOTTED LANE EXTENSION MARKINGS SHALL BE WIDE LINES (2" IN) AND SHOULD CONSIST OF 2 FT LINE SEGMENTS WITH 2 FT SPACING.
 - CONSTRUCT TUBULAR MARKERS ON MOUNTABLE TYPE 3A SPLITTER ISLANDS AT 5' SPACING.

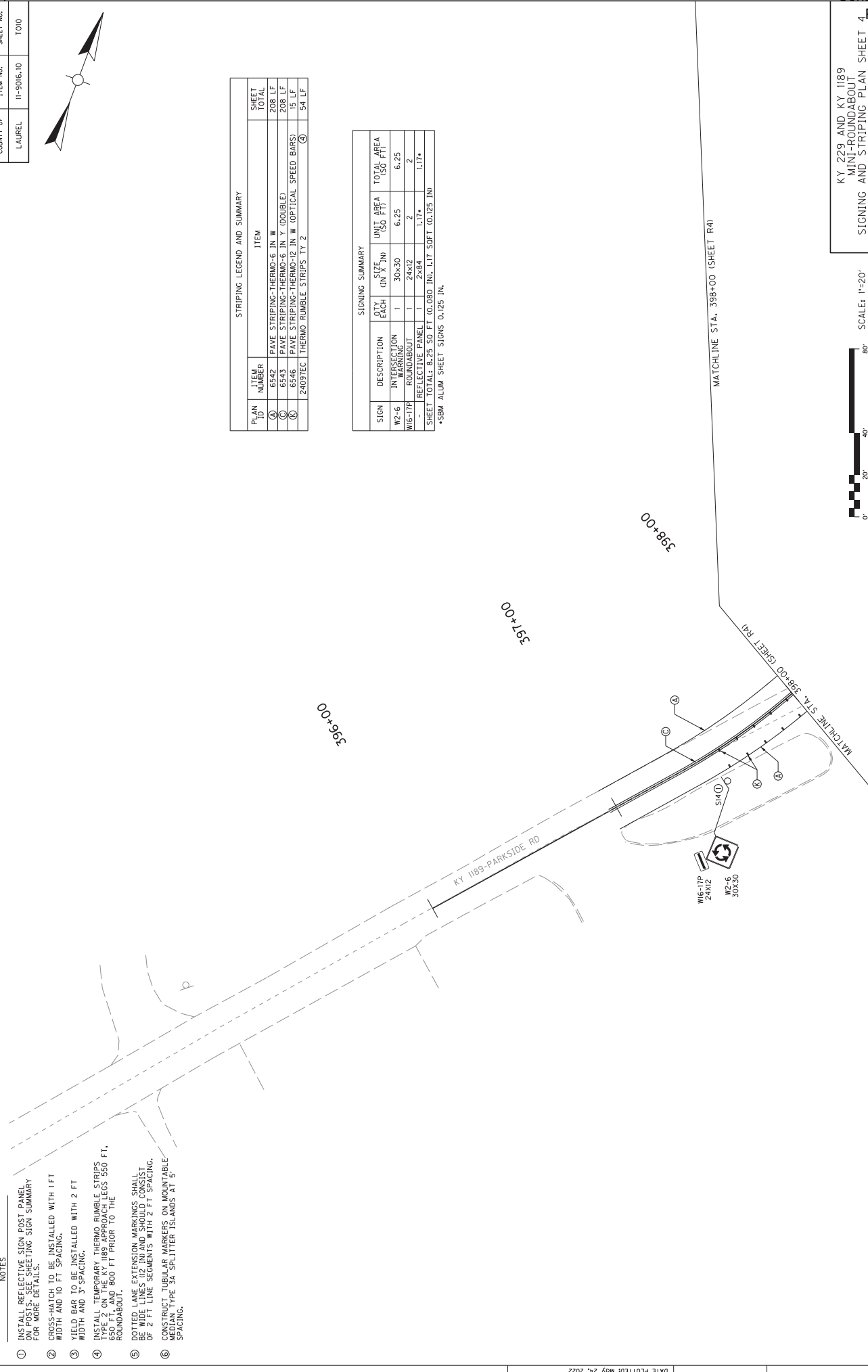
STRIPING LEGEND AND SUMMARY

PLAN ID	ITEM NUMBER	ITEM	SHEET TOTAL
(A)	6542	PAVE STRIPING-THERMO-6 IN W	208 LF
(B)	6543	PAVE STRIPING-THERMO-6 IN Y (DOUBLE)	208 LF
(C)	6546	PAVE STRIPING-THERMO-12 IN W (OPTICAL SPEED BARS)	15 LF
(D)	2409TEC	THERMO RUMBLE STRIPS TT 2	54 LF

SIGNING SUMMARY

SIGN	DESCRIPTION	QTY EACH	SIZE (IN X IN)	UNIT AREA (SQ FT)	TOTAL AREA (SQ FT)
W2-6	INTERSECTION ROUNDOUT	1	30x30	6.25	6.25
W16-17P	ROUNDABOUT REFLECTIVE PANEL	1	24x12	2	2
	REFLECTIVE PANEL	1	2x84	1.17*	1.17*
SHEET TOTAL: 8.25 SQ FT (0.080 IN, 1.17 SQFT (0.125 IN))					

*SRM ALUM. SHEET SIGNS 0.125 IN.



KY 229 AND KY 1189
MINI-ROUNDABOUT
SIGNING AND STRIPING PLAN SHEET 4

SHEETING SIGNS DETAIL SHEET

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES	SPECIFICATION	SIGN LOCATION		COUNT OF LABEL	ITEM NO. 11-9016.10	SHEET NO. TOI
				SIDE OF ROAD TRAVELING	AT STATION (APPROXIMATE)			
S-1	30 30		W2-6	RT	197+40	3	401+50	
	24 12		W6-17P					
	2 84		YELLOW REFLECTIVE PANEL					
S-2	18 30		R4-1c	NB	197+85	2	400+58	
	2 84		WHITE REFLECTIVE PANEL					
S-3	24 12		M3-4	RT	198+50	9	202+50	
	30 24		M1-5					
	24 12		M3-1					
	2 84		M5-3					
			M3-2					
			M6-3					
			M1-5					
			M2-2					
			M3-2					
			M5-1					
			M5-1					
S-4	36 36		R4-1c	NB	199+47	3	202+16	
	30 30		R6-5P					
	2 84		RED REFLECTIVE PANEL					
S-5	18 30		R4-1c	NB	400+94	2	201+50	
	2 84		WHITE REFLECTIVE PANEL					
	S-6		30 30		W2-6			
24 12		W6-17P						
2 84		YELLOW REFLECTIVE PANEL						
S-7		24 12			M3-3	LT	401+50	9
	30 24	M1-5						
	21 15	M5-3						
	24 12	M3-4						
	30 24	M1-5						
	21 15	M3-1						
	24 12	M6-3						
	30 24	M1-5						
	21 15	M5-1						
	2 84	R1-2						
	36 36	R6-5P						
	2 84	RED REFLECTIVE PANEL						
S-8	30 30		W2-6	LT	202+50	3	202+50	
	24 12		W6-17P					
	2 84		YELLOW REFLECTIVE PANEL					
S-9	18 30		R4-1c	SB	202+16	2	202+16	
	2 84		WHITE REFLECTIVE PANEL					
	S-10		24 12		M3-2			
21 15		M1-5						
30 24		M5-3						
24 12		M3-3						
30 24		M1-5						
21 15		M6-3						
24 12		M3-4						
30 24		M1-5						
21 15		M5-1						
2 84		R1-2						
36 36		R6-5P						
2 84		RED REFLECTIVE PANEL						
S-11	24 12		M3-2	SB	201+50	2	201+50	
	21 15		M1-5					
	30 24		M5-3					
	24 12		M3-3					
	30 24		M1-5					
	21 15		M6-3					
	24 12		M3-4					
	30 24		M1-5					
	21 15		M5-1					
	2 84		R1-2					
	36 36		R6-5P					
	2 84		RED REFLECTIVE PANEL					
S-12	30 30		W2-6	SB	200+52	3	200+52	
	24 12		W6-17P					
	2 84		YELLOW REFLECTIVE PANEL					

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

LAUREL COUNTY HSIP 5274(010)
 KY 229 AND KY 189
 MINI-ROUNDABOUT
 SHEETING SIGN DETAIL SHEET 1

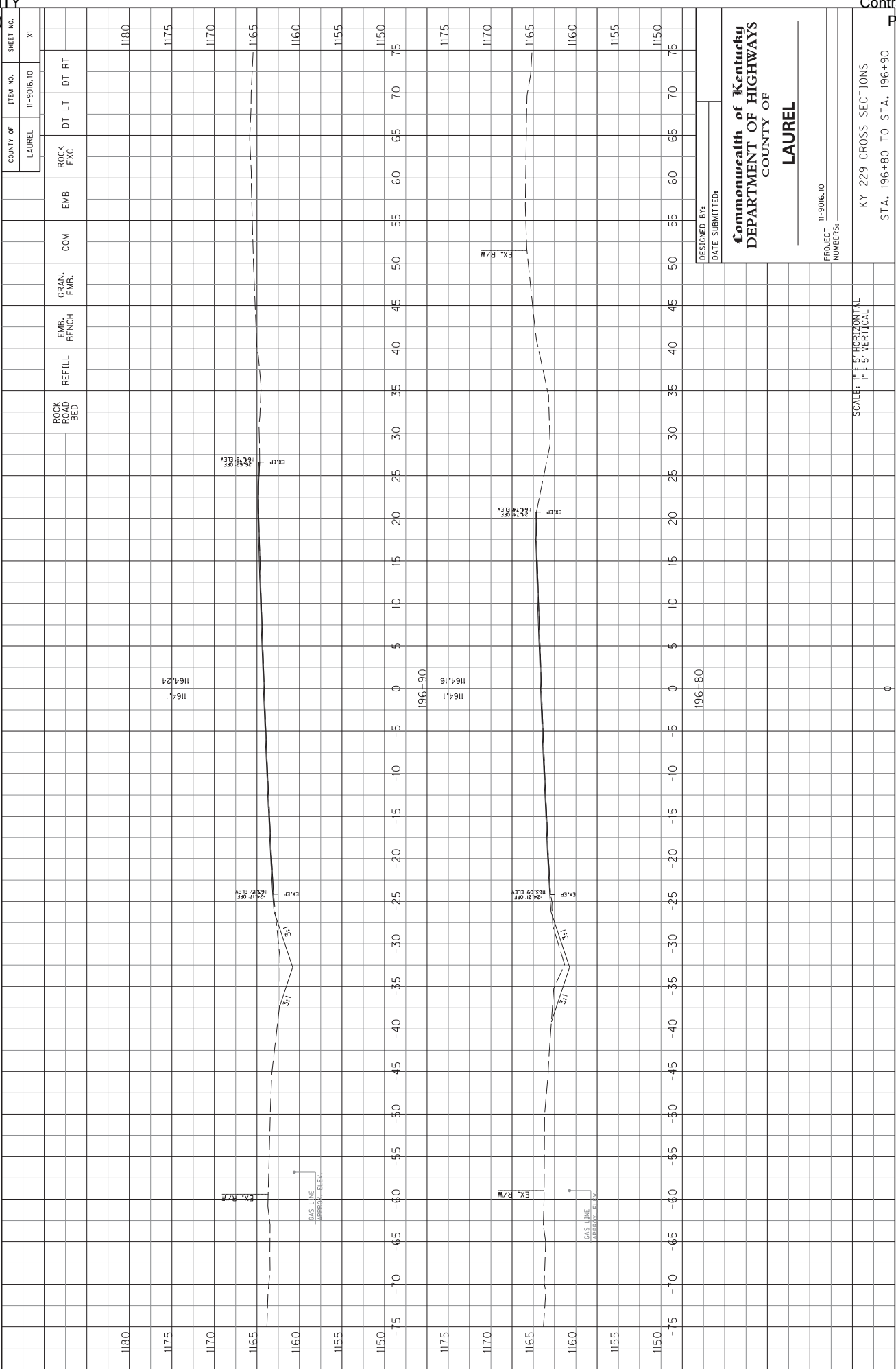
SHEETING SIGNS DETAIL SHEET

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES	SPECIFICATION	SIGN LOCATION		
				SIDE OF ROAD	FACING TRAFFIC ON ROAD	AT STATION (APPROXIMATE)
S-13	18 30		R4-7C WHITE REFLECTIVE PANEL	RT	EB	KY 1189 399+07
	2 84					
S-14	30 30		W2-6 W6-17P YELLOW REFLECTIVE PANEL	RT	EB	KY 1189 397+50
	24 12					
S-15	30 24	 	M3-1 M1-5 M3-2 M3-3 M3-4 M3-5 M5-1 M5-2 M5-3 M5-4 M5-5 R6-5P RED REFLECTIVE PANEL	RT	EB	KY 1189 398+50
	21 15					
S-16	36 36		M3-1 M1-5 M3-2 M3-3 M3-4 M3-5 M5-1 M5-2 M5-3 M5-4 M5-5 R6-5P RED REFLECTIVE PANEL	RT	EB	KY 1189 399+45
	30 30					
S-	2 84		M3-1 M1-5 M3-2 M3-3 M3-4 M3-5 M5-1 M5-2 M5-3 M5-4 M5-5 R6-5P RED REFLECTIVE PANEL	RT	EB	KY 1189 399+45
	2 84					

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

COUNT OF LABEL	ITEM NO.	SHEET NO.
	11-9016.10	1012

KY 229 AND KY 1189
 MINI-ROUNDABOUT
 SHEETING SIGN DETAIL SHEET 2



COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	XI

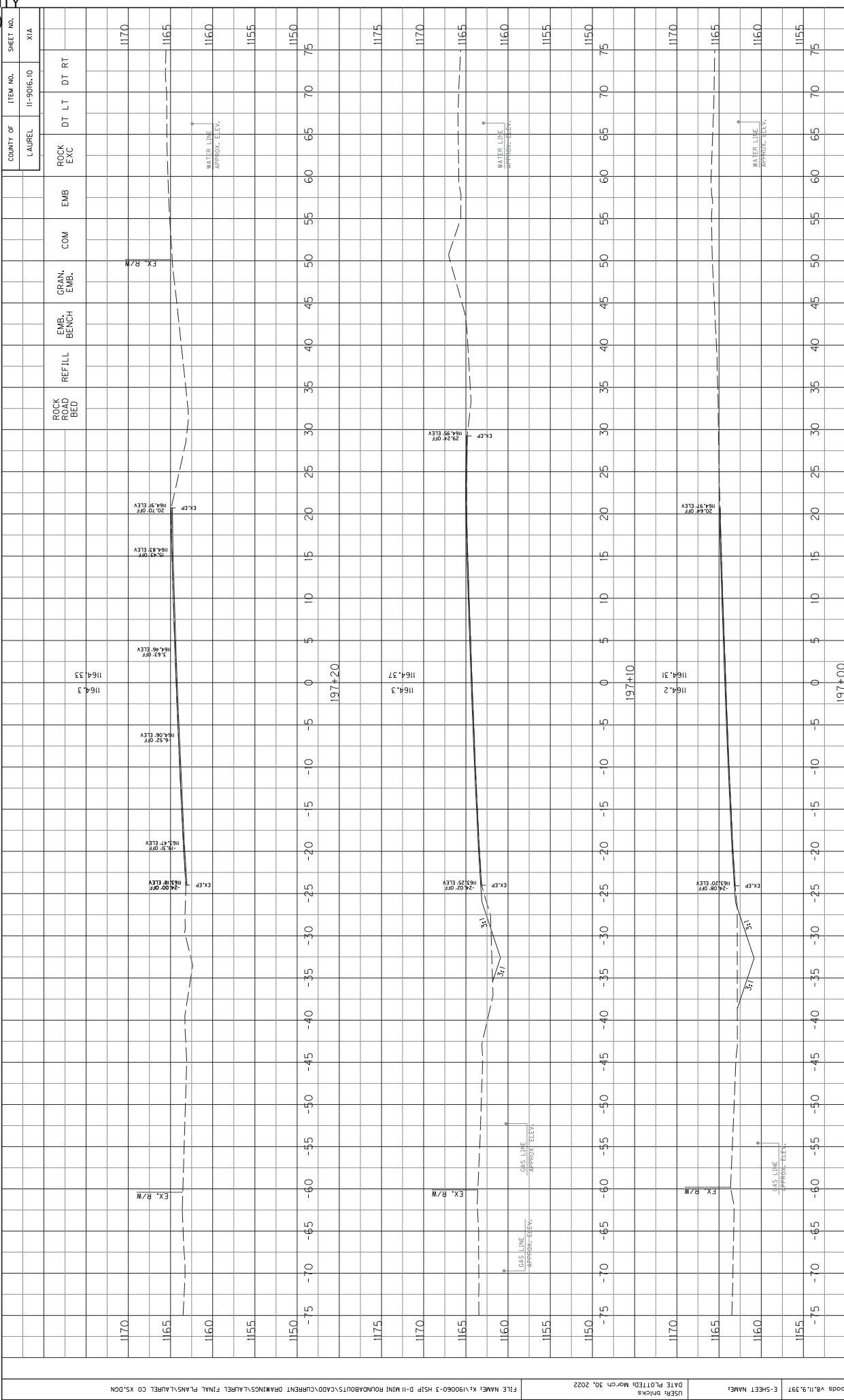
DESIGNED BY:
DATE SUBMITTED:

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
LAUREL

PROJECT NUMBER:
11-9016.10

KY 229 CROSS SECTIONS
STA. 196+80 TO STA. 196+90

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

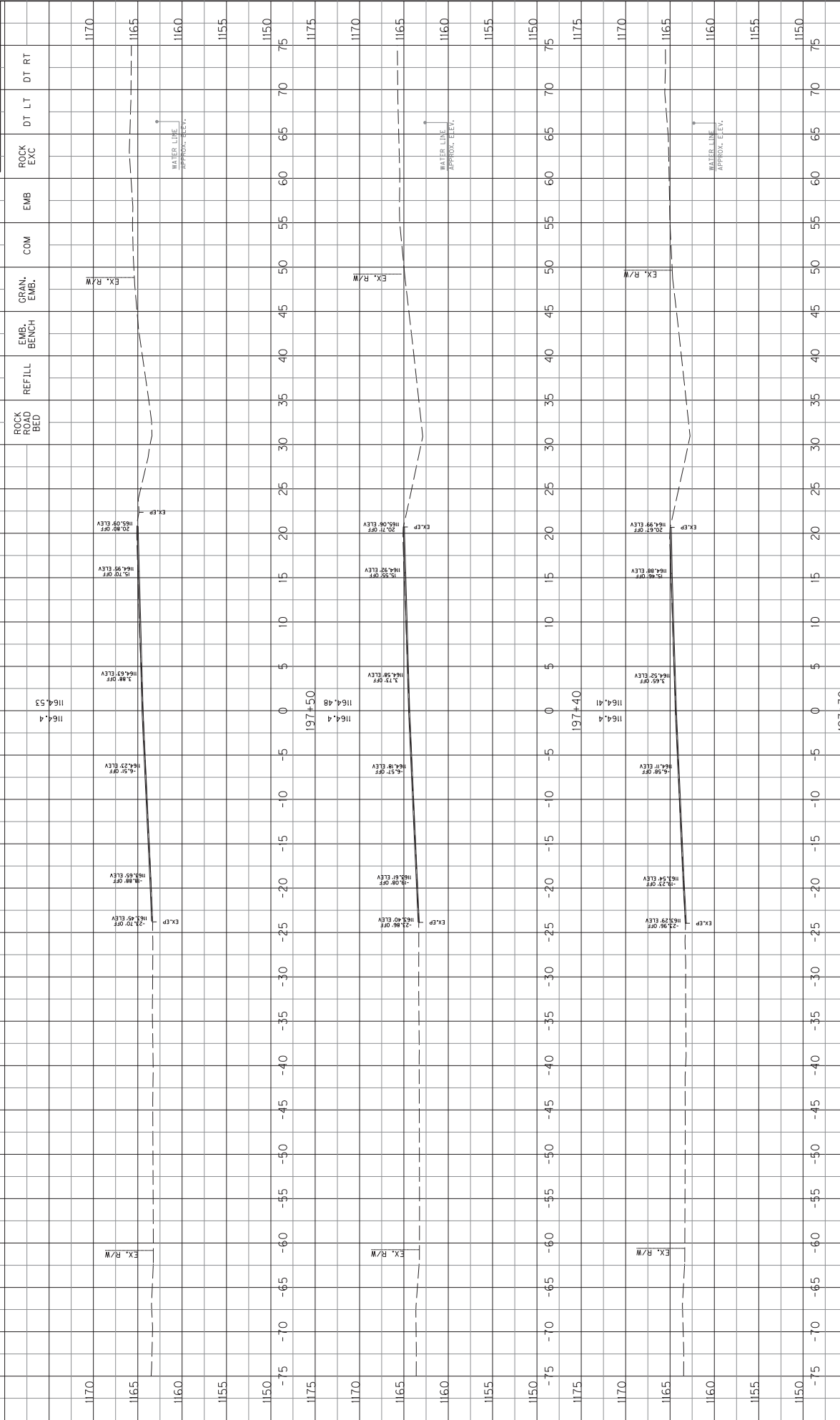


Power InRoads v8.11.9.377 E-SHEET NAME: USER: bricks DATE PLOTTED: March 30, 2022 FILE NAME: K:\9060-3-HSP-D-11-MINI-ROUNDABOUTS\CAD\CURRENT DRAWINGS\LAUREL_FINAL PLANS\LAUREL_CO_XS.DGN

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 229 CROSS SECTIONS
STA. 197+00 TO STA. 197+20

COUNTY OF LAUREL
 ITEM NO. 11-9016.10
 SHEET NO. X2



ROCK ROAD BED
 REFILL
 EMB. BENCH
 GRAN. EMB.
 COM
 EMB.

DT LT DT RT

ROCK EXC

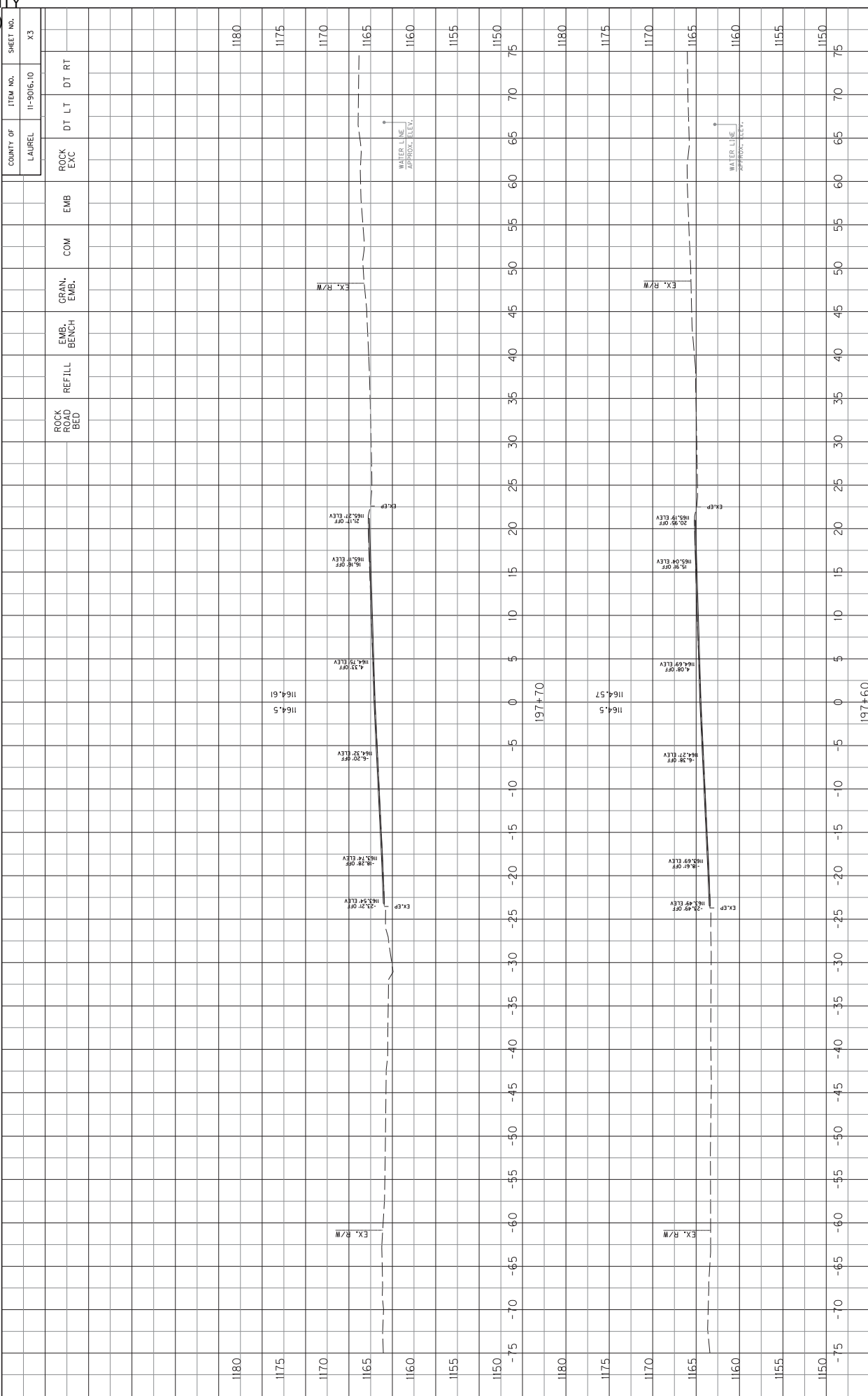
EX. R/W

EX. EP

WATER LINE APPROX. ELEV.

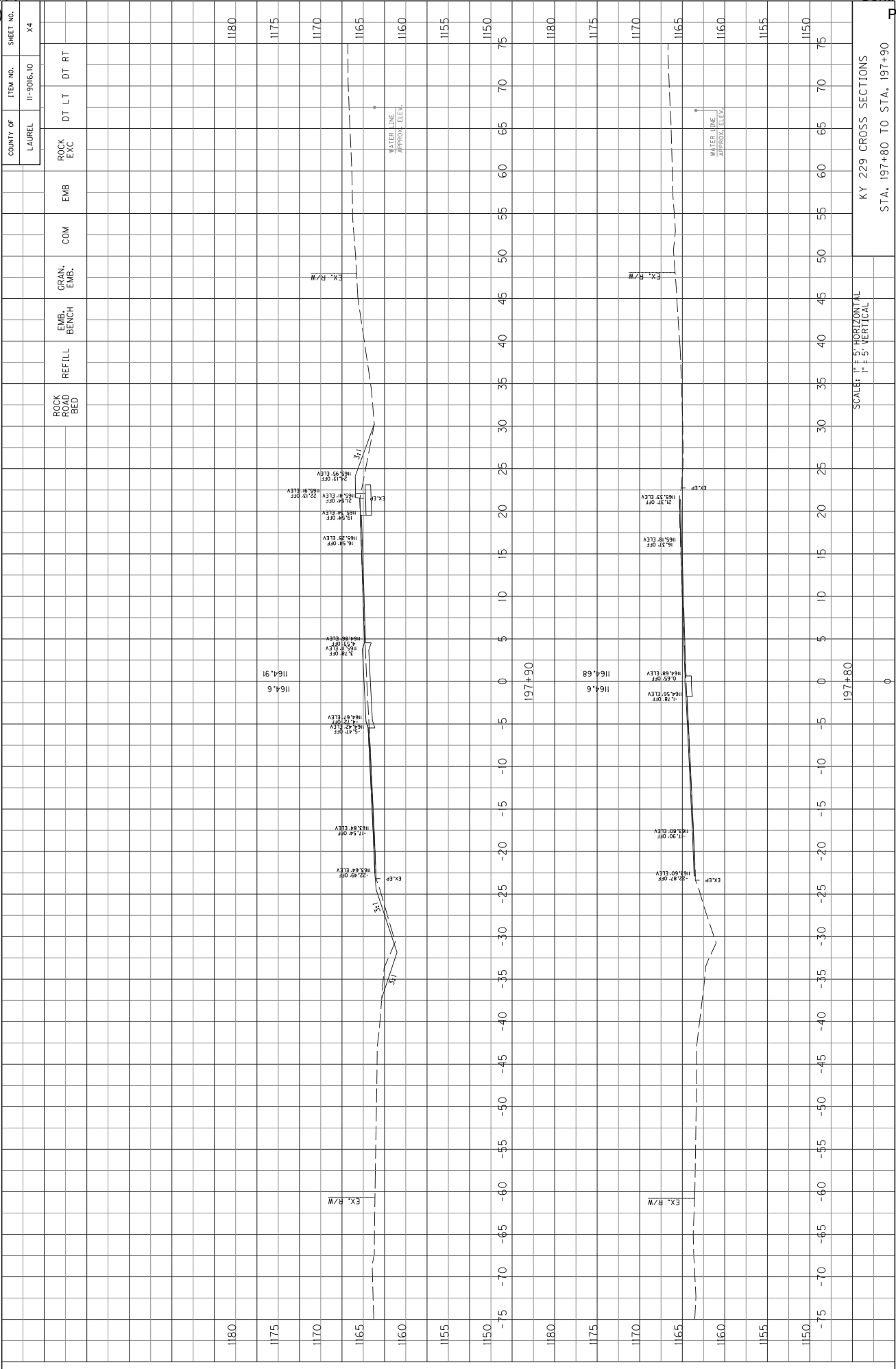
SCALE: 1" = 5' HORIZONTAL
 1" = 1' VERTICAL

KY 229 CROSS SECTIONS
 STA. 197+30 TO STA. 197+50



KY 229 CROSS SECTIONS
STA. 197+60 TO STA. 197+70

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

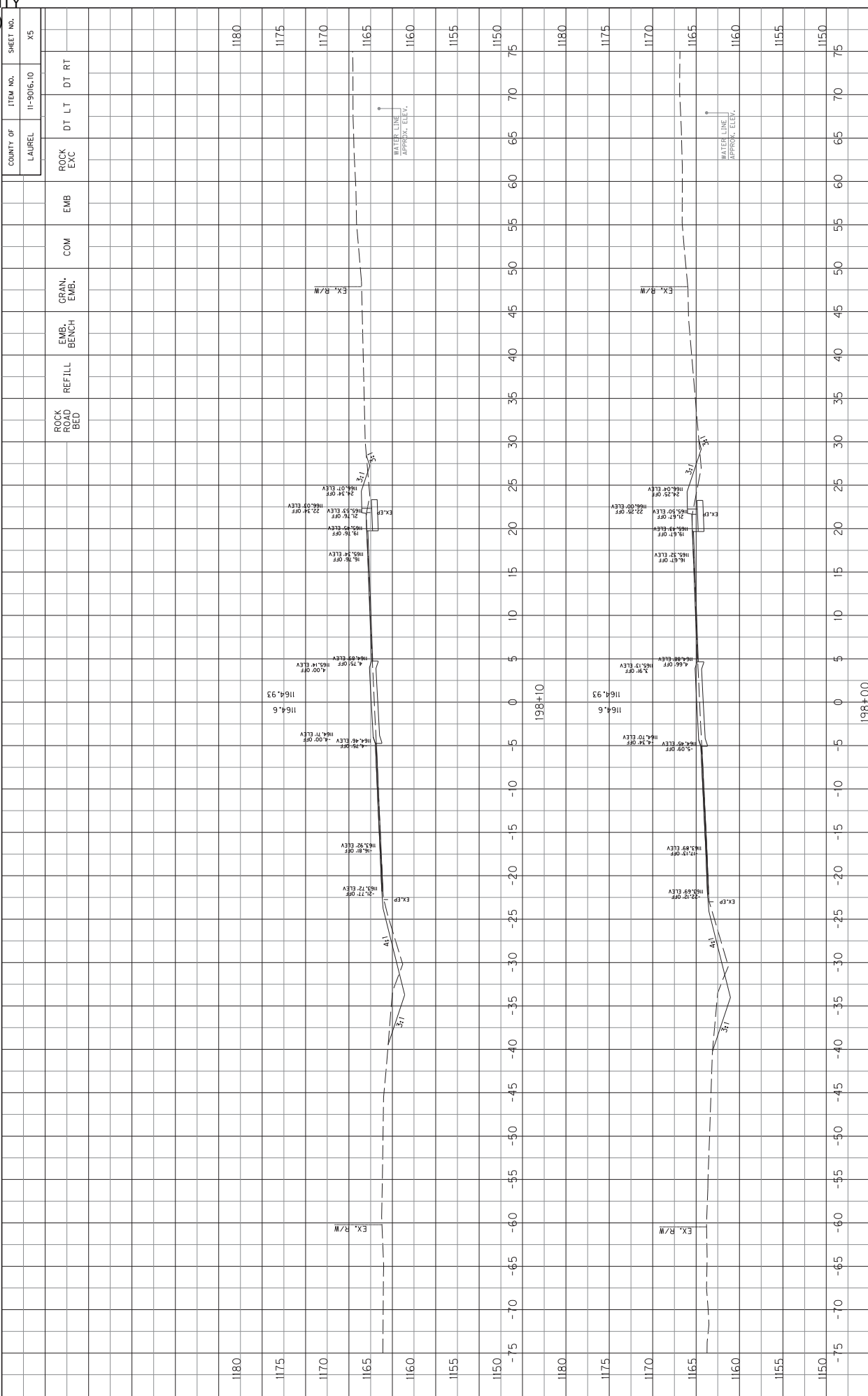


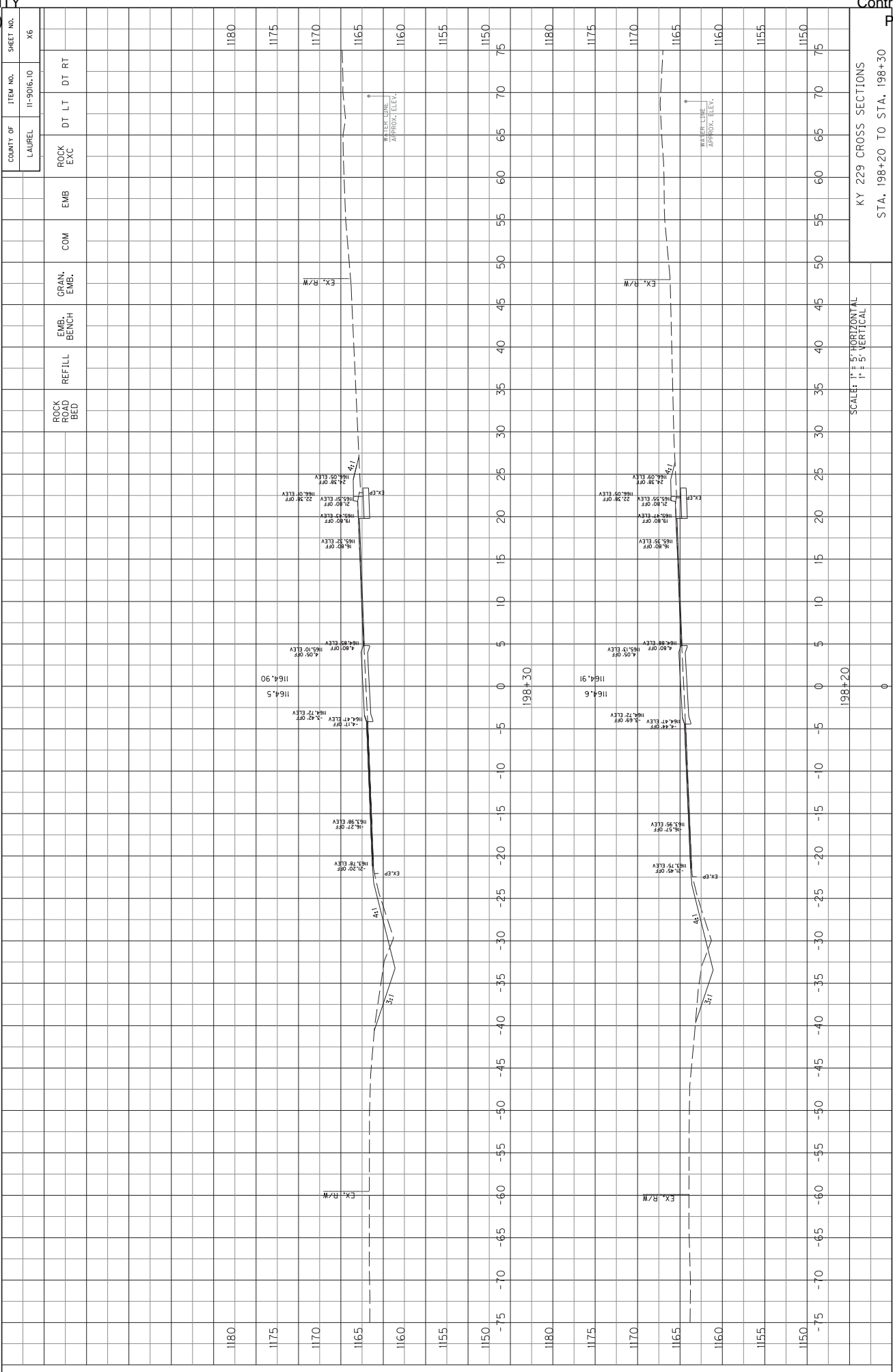
USDR: bchicks DATE PLOTTED: March 30, 2022
 E-SHEET NAME: Power InRoads v8.11.9.397
 FILE NAME: K:\19060-3 HSIP 0-11-MINI ROUNDABOUTS\CADD\CURRENT DRAWINGS\LAUREL_FINAL PLANS\LAUREL_CO_XS.DGN

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	34

KY 229 CROSS SECTIONS
 STA. 197+80 TO STA. 197+90

SCALE: 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

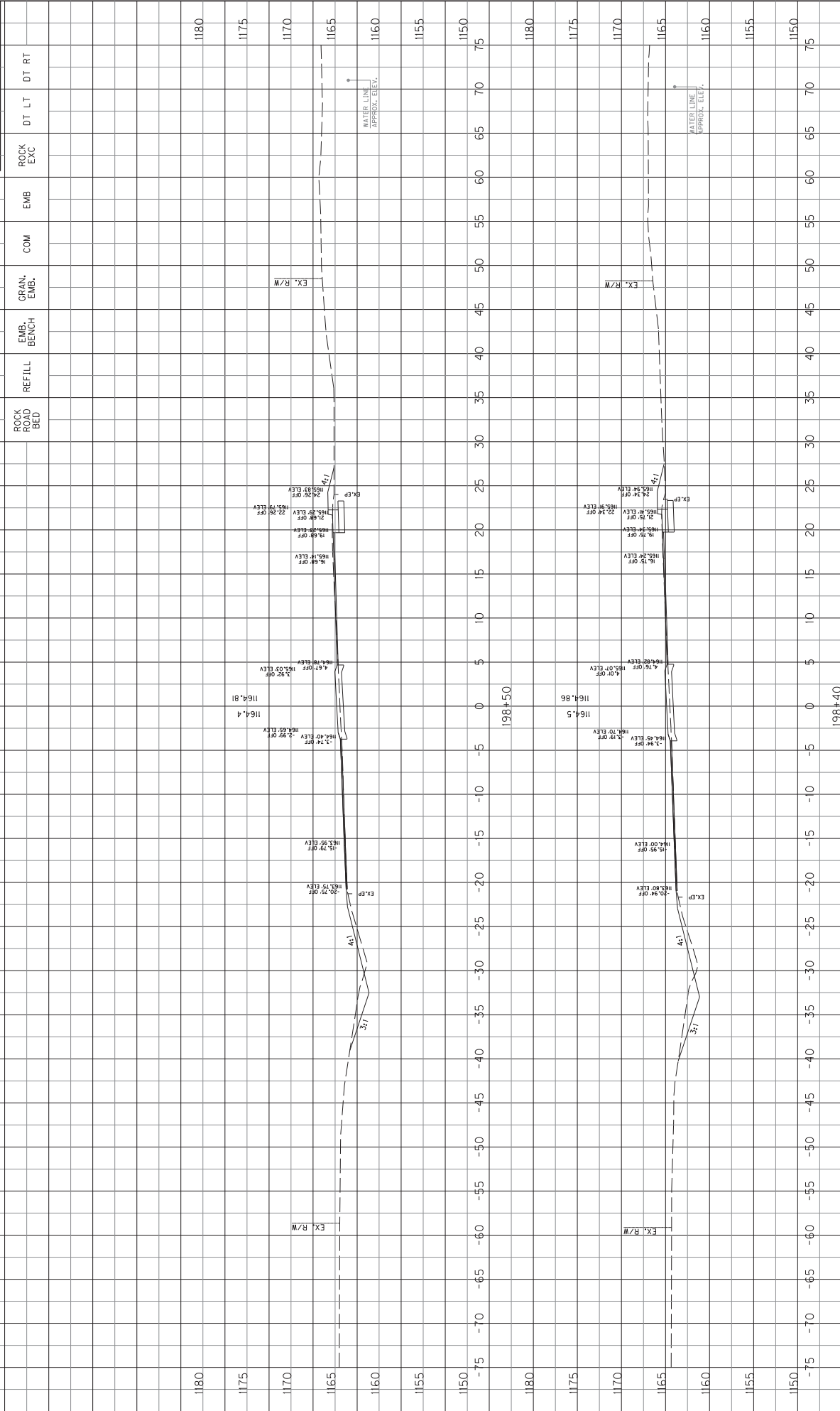




KY 229 CROSS SECTIONS
STA. 198+20 TO STA. 198+30

SCALE: 1:1.5 HORIZONTAL
1:1.5 VERTICAL

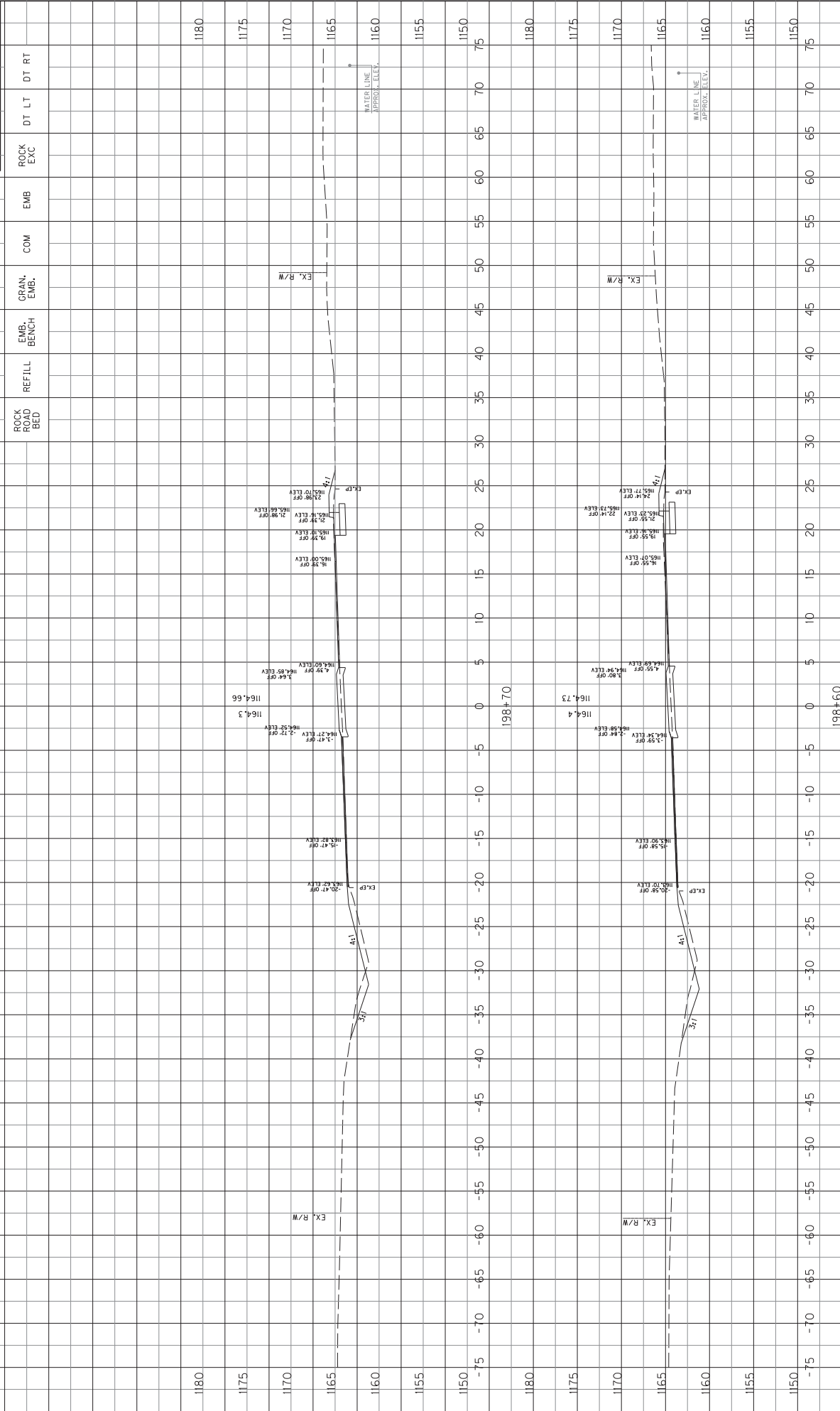
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-5016.10	X7



SCALE: 1" = 5' HORIZONTAL
1" = 1' VERTICAL

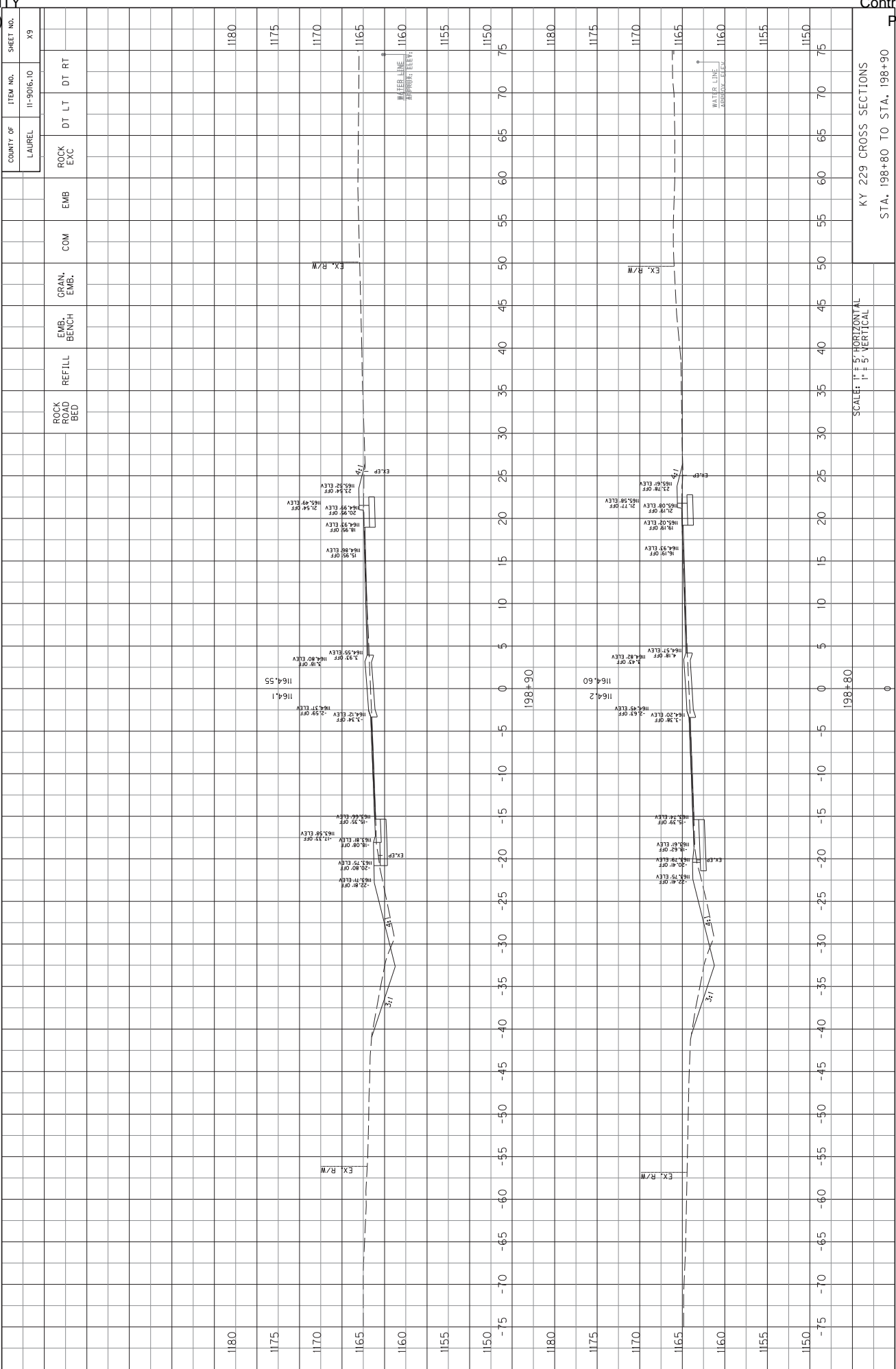
KY 229 CROSS SECTIONS
STA. 198+40 TO STA. 198+50

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	18



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 229 CROSS SECTIONS
STA. 198+60 TO STA. 198+70



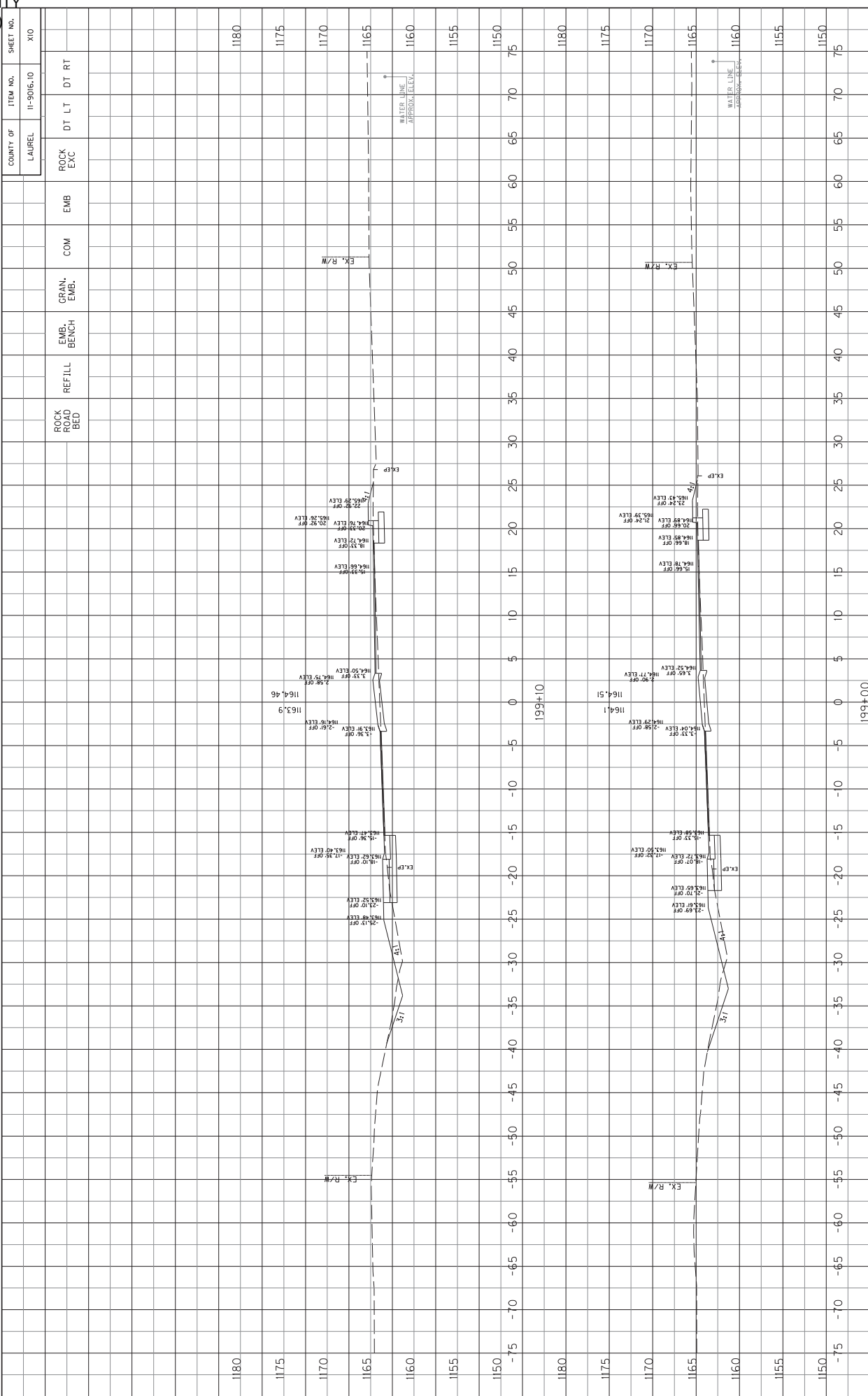
USBR: brinks DATE PLOTTED: March 30, 2022
 Power InRoads v8.11.9.377 E-SHEET NAME:
 FILE NAME: K:\19060-3 HSIP 0-11-MINI ROUNDABOUTS\CURRENT DRAWINGS\LAUREL_FINAL_PLANS\LAUREL_CO_XS.DGN

KY 229 CROSS SECTIONS
 STA. 198+80 TO STA. 198+90

SCALE: 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

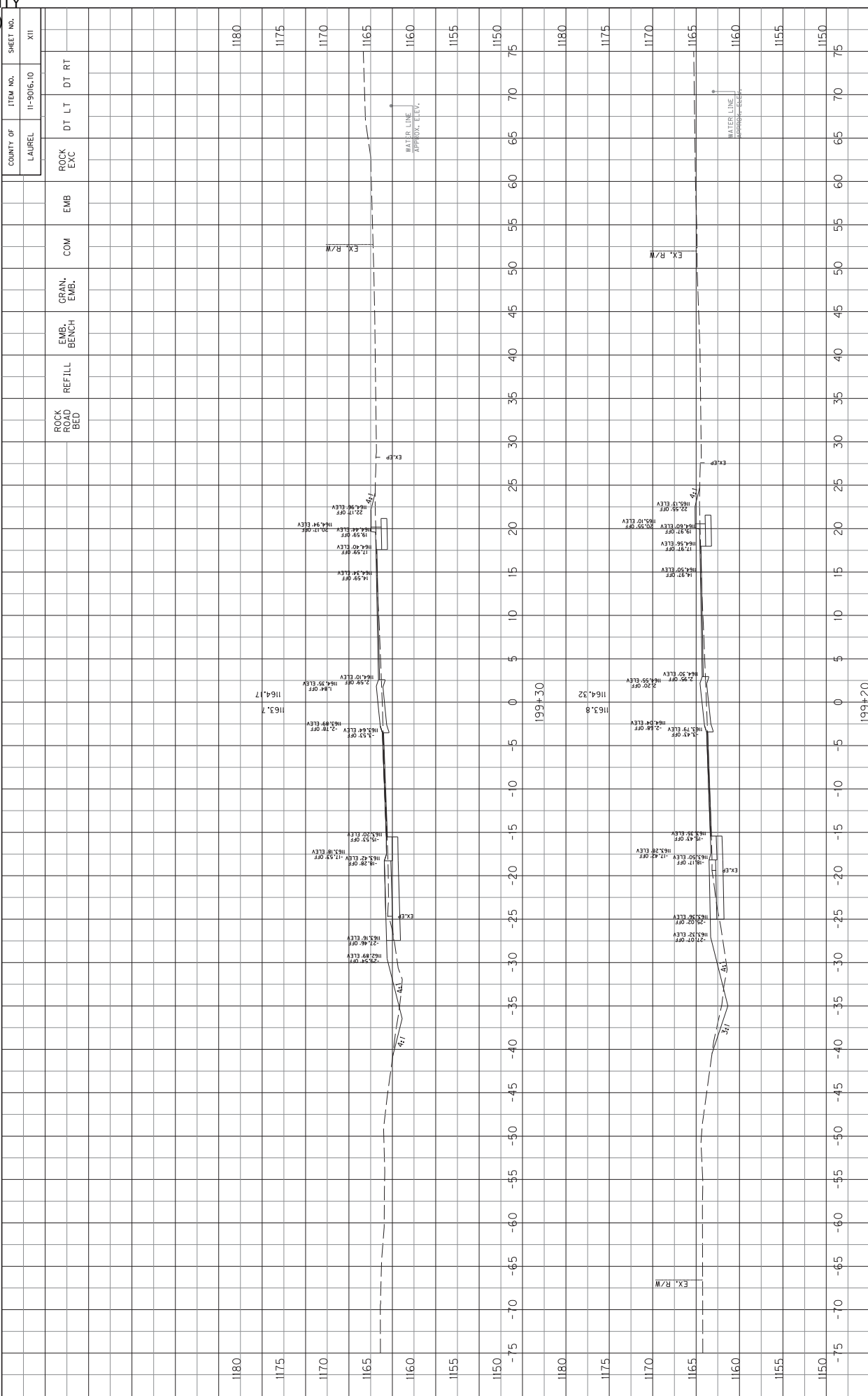
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	19

ROCK HEAD BED	REFILL	EMB. BENCH	GRAN. EMB.	COM	EMB	ROCK EXC	DT LT	DT RT
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KY 229 CROSS SECTIONS
STA. 199+00 TO STA. 199+10

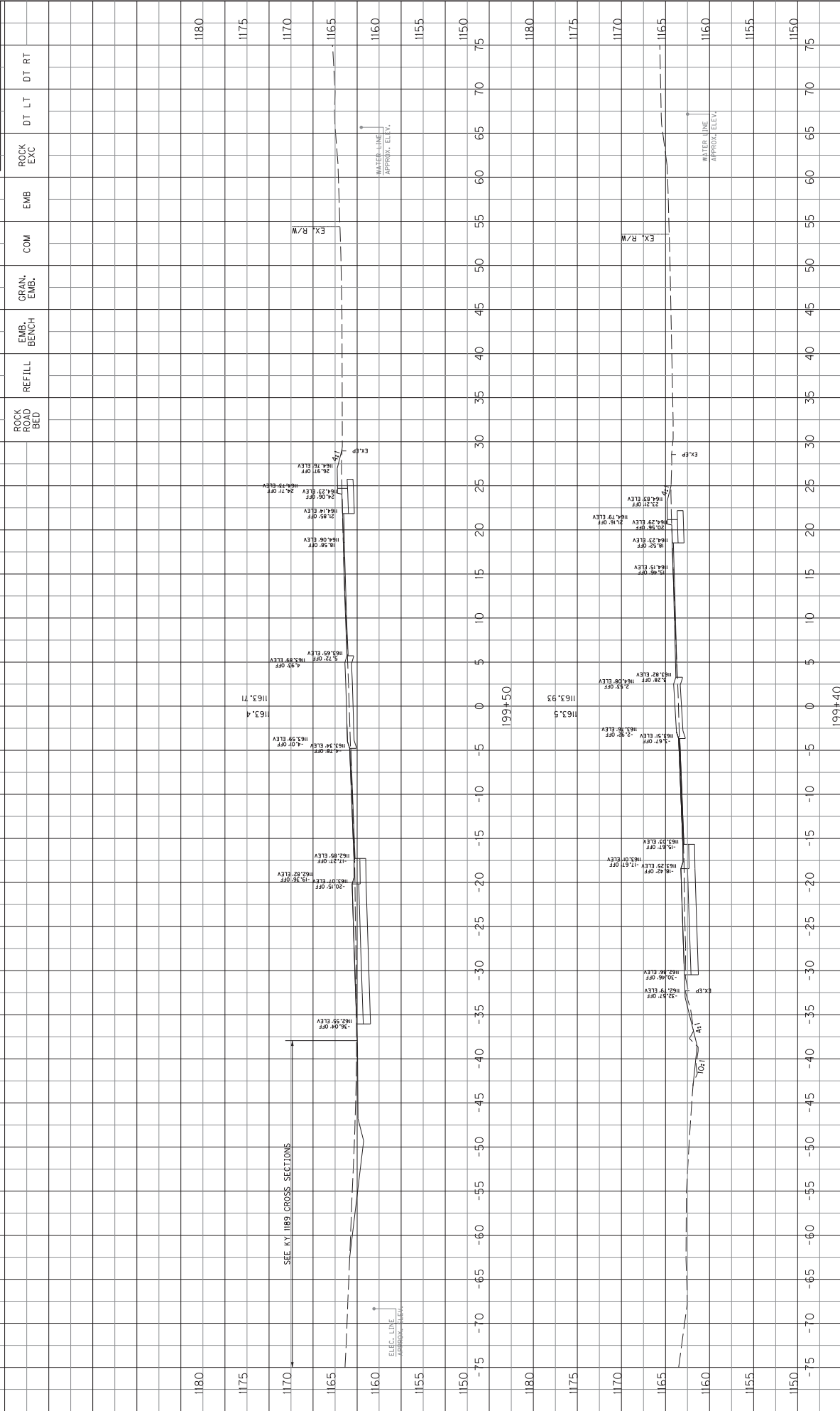
SCALE: 1" = 5' HORIZONTAL
1" = 1' VERTICAL



KY 229 CROSS SECTIONS
STA. 199+20 TO STA. 199+30

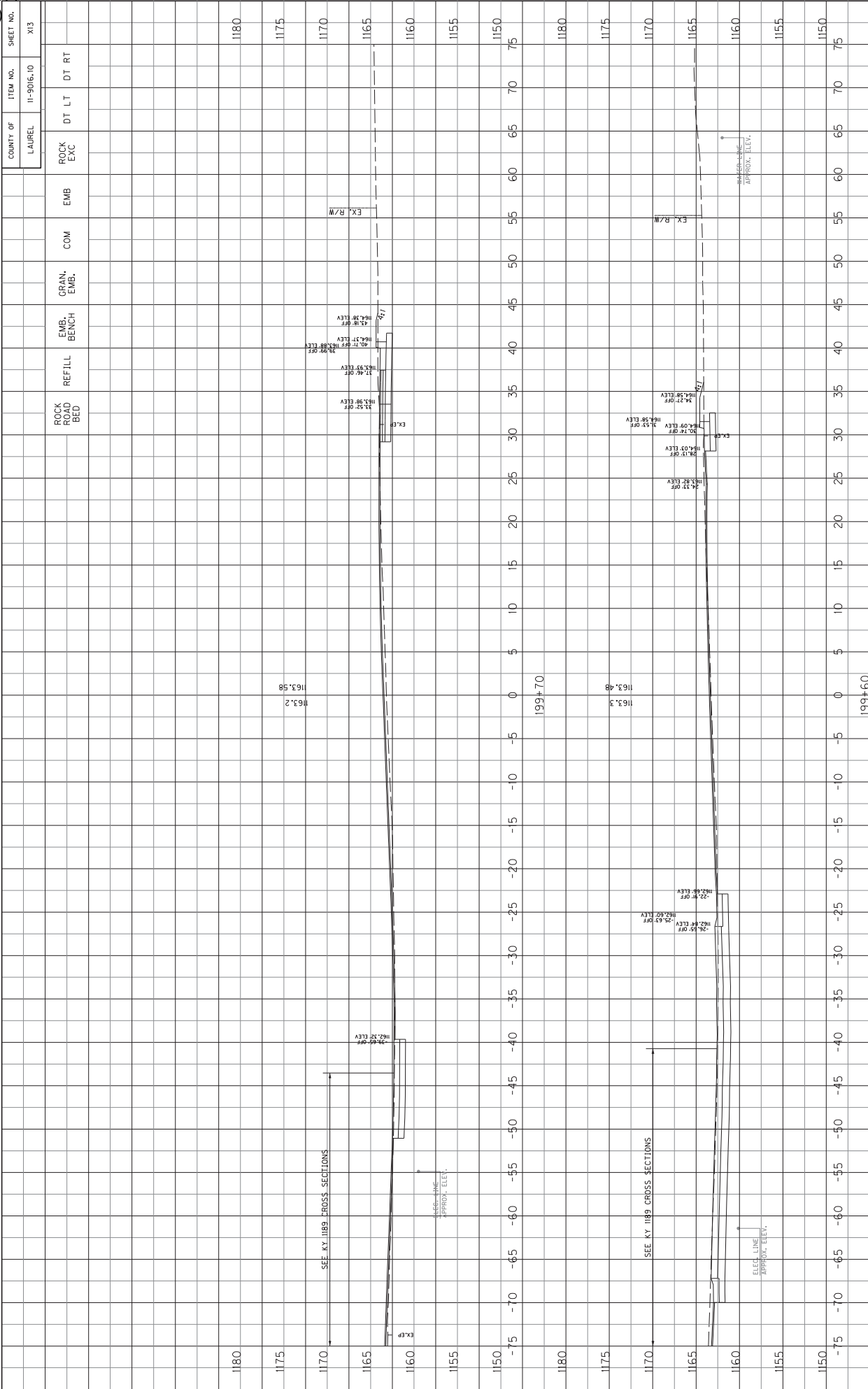
SCALE: 1" = 5' HORIZONTAL
1" = 1' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	112



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

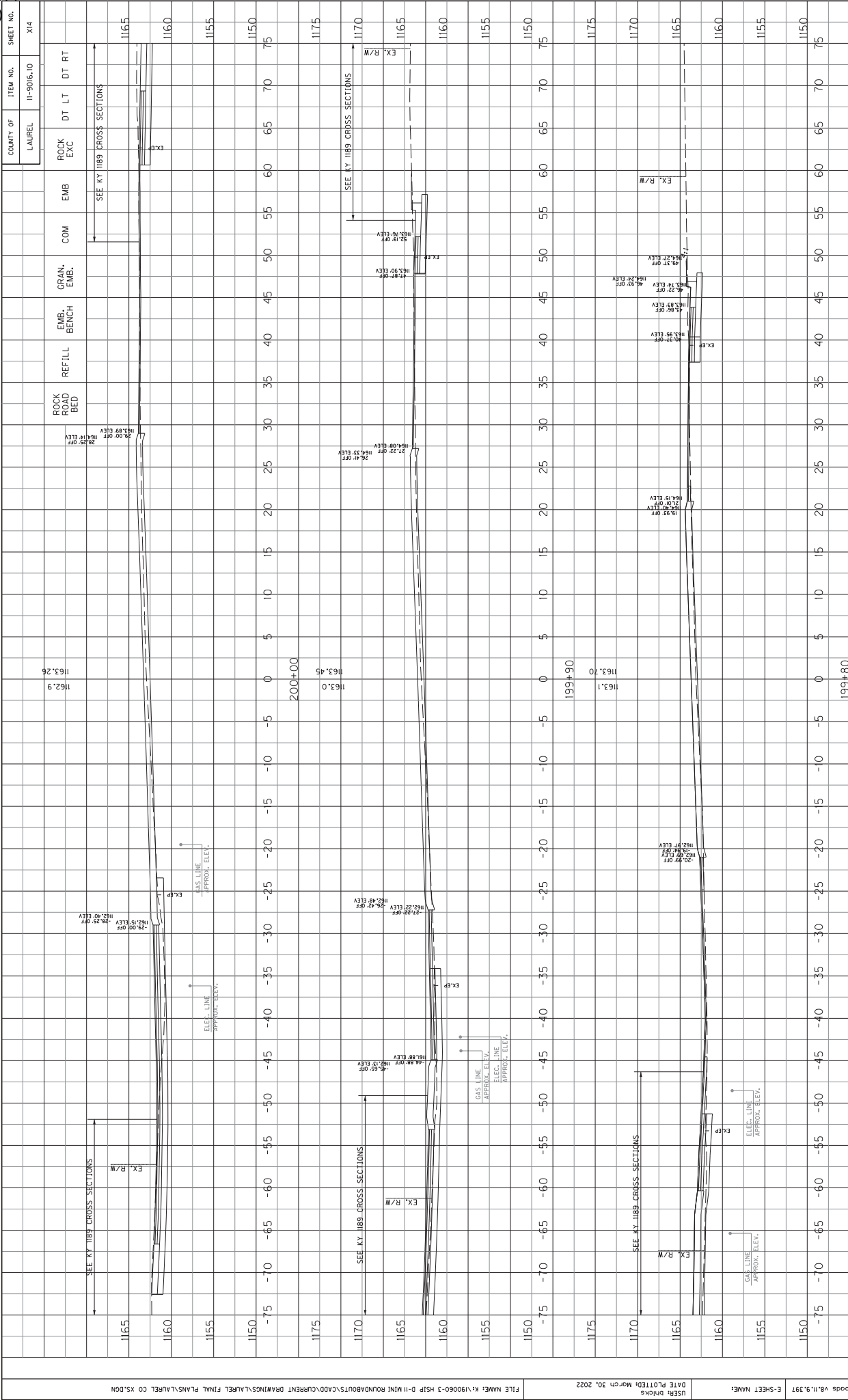
KY 229 CROSS SECTIONS
STA. 199+40 TO STA. 199+50



COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X13

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 229 CROSS SECTIONS
STA. 199+60 TO STA. 199+70



USRI: bricks DATE PLOTTED: March 30, 2022 FILE NAME: K:\19060-3 HSIP 0-BI-MINI ROUNDABOUTS\CAD\CURRENT DRAWINGS\LAUREL_FINAL PLANS\LAUREL_CO_XS.DGN Power InRoads v8.11.9.377 E-SHEET NAME: KY 229 CROSS SECTIONS STA. 199+80 TO STA. 200+00

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	214

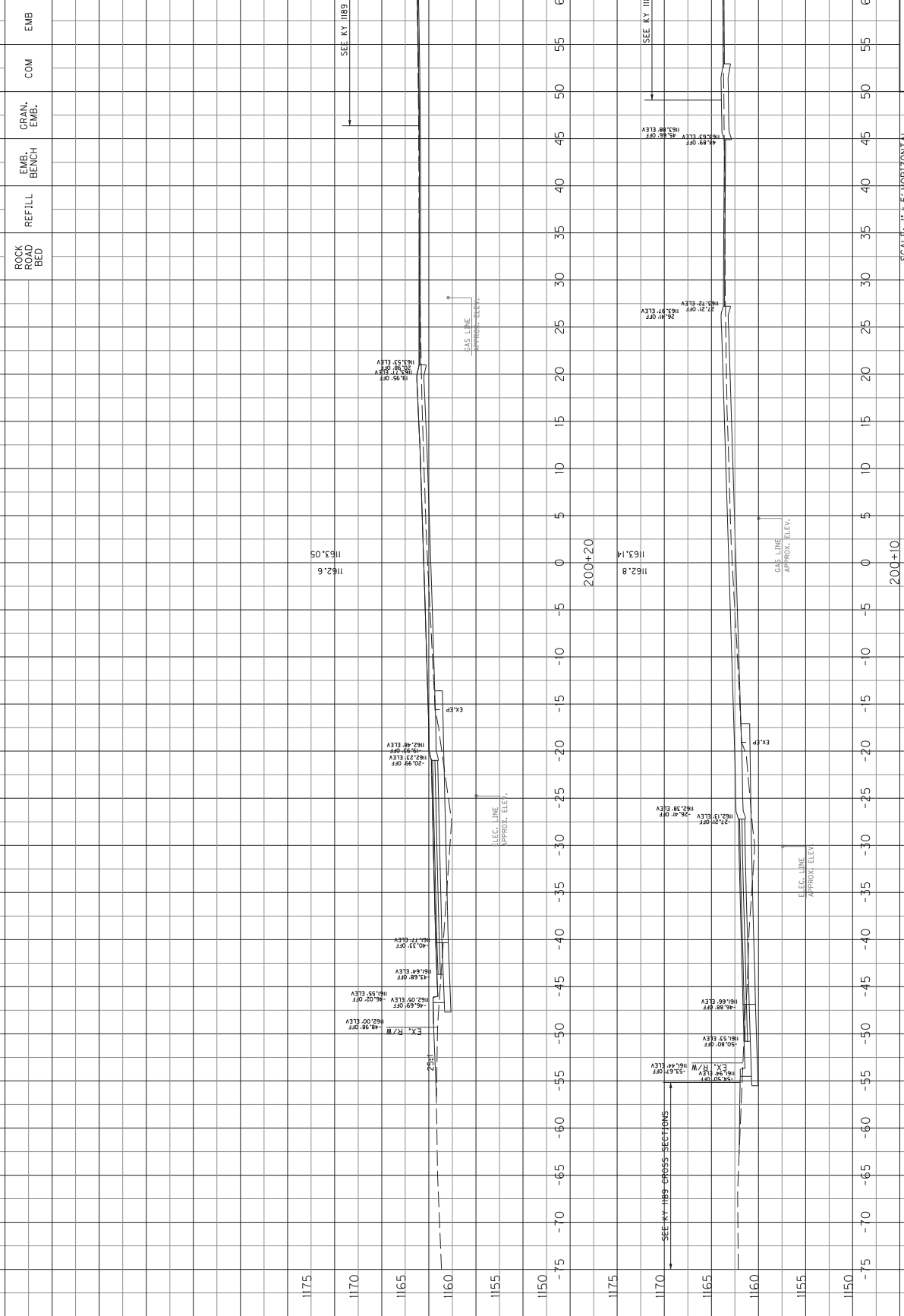
STATION	ROCK FILL	EMB. BENCH	GRAN. EMB.	COM	EMB	ROCK EXC	DT LT	DT RT
-75							70	75
-70							65	70
-65							60	65
-60							55	60
-55							50	55
-50							45	50
-45							40	45
-40							35	40
-35							30	35
-30							25	30
-25							20	25
-20							15	20
-15							10	15
-10							5	10
-5							0	5
0							0	0
5							0	5
10							0	10
15							0	15
20							0	20
25							0	25
30							0	30
35							0	35
40							0	40
45							0	45
50							0	50
55							0	55
60							0	60
65							0	65
70							0	70
75							0	75

SCALE:	HORIZONTAL	VERTICAL
1" = 100'	1" = 5'	1" = 5'

SECTION	STATION
KY 229 CROSS SECTIONS	STA. 199+80 TO STA. 200+00

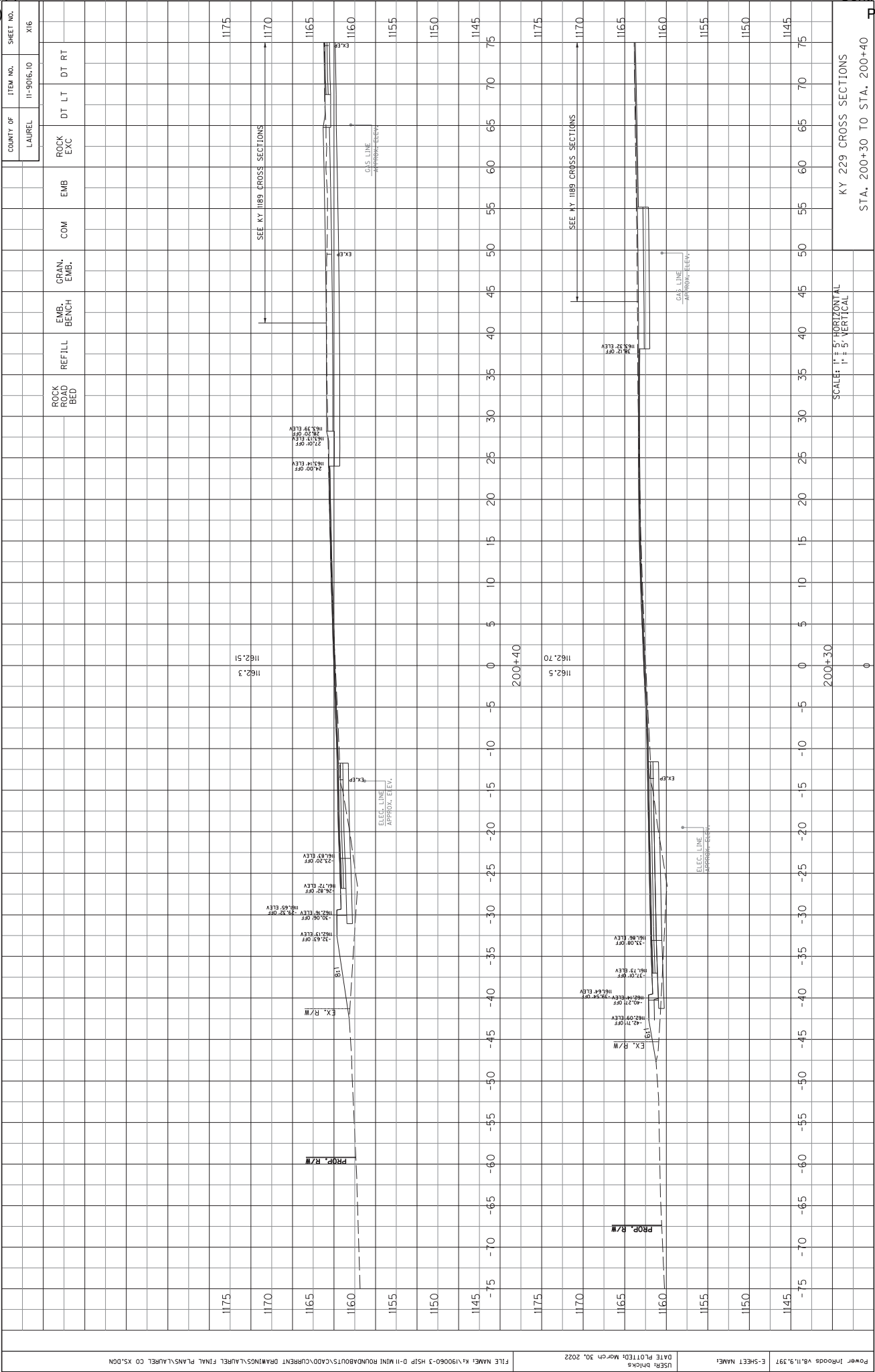
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X15

ROCK PAD BED	REFILL	EMB. BENCH	GRAN. EMB.	COM	EMB	ROCK EXC	DT LT	DT RT
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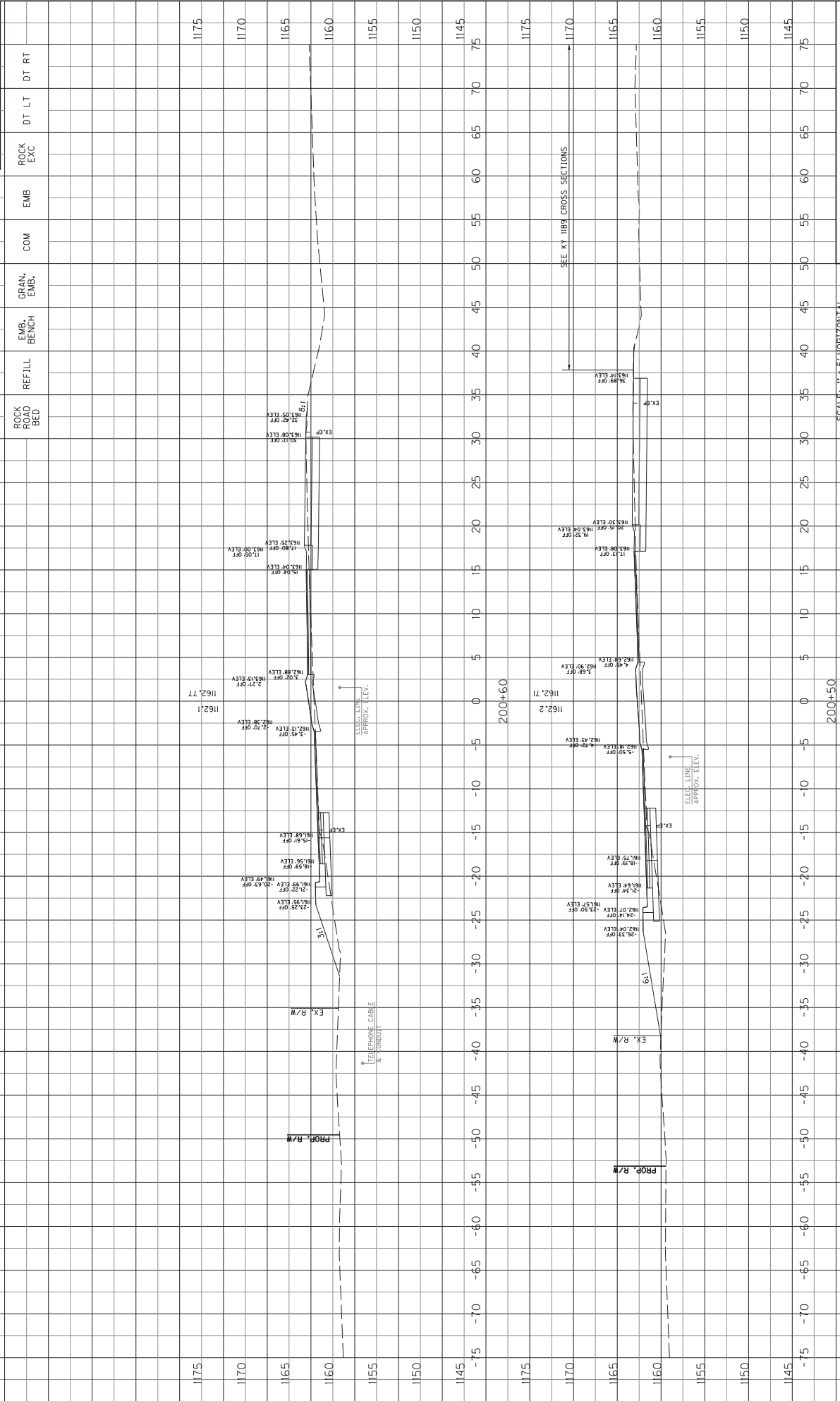


SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 229 CROSS SECTIONS
STA. 200+10 TO STA. 200+20

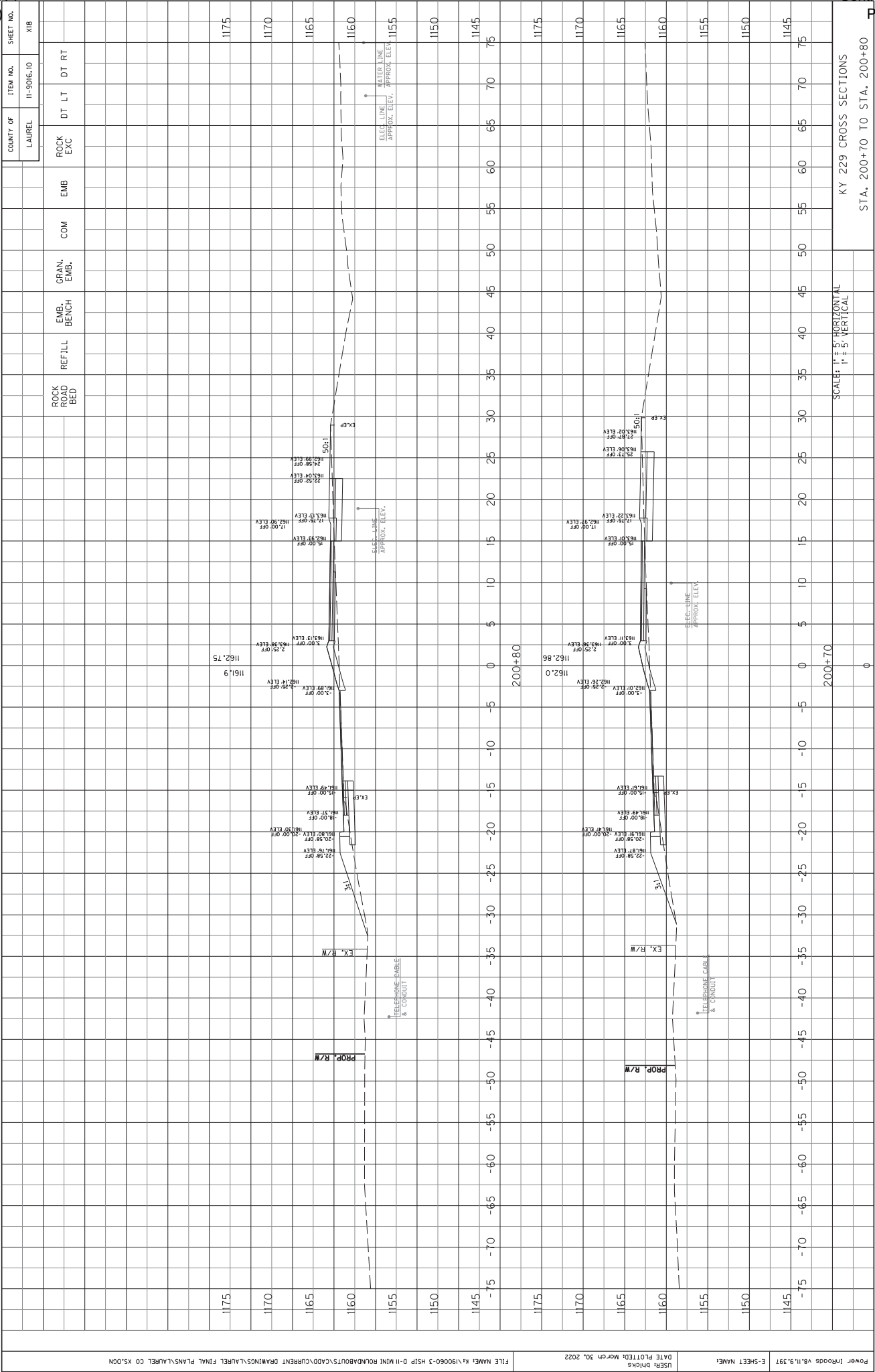


COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X17



SCALE: 1:1.5 HORIZONTAL
1:1.5 VERTICAL

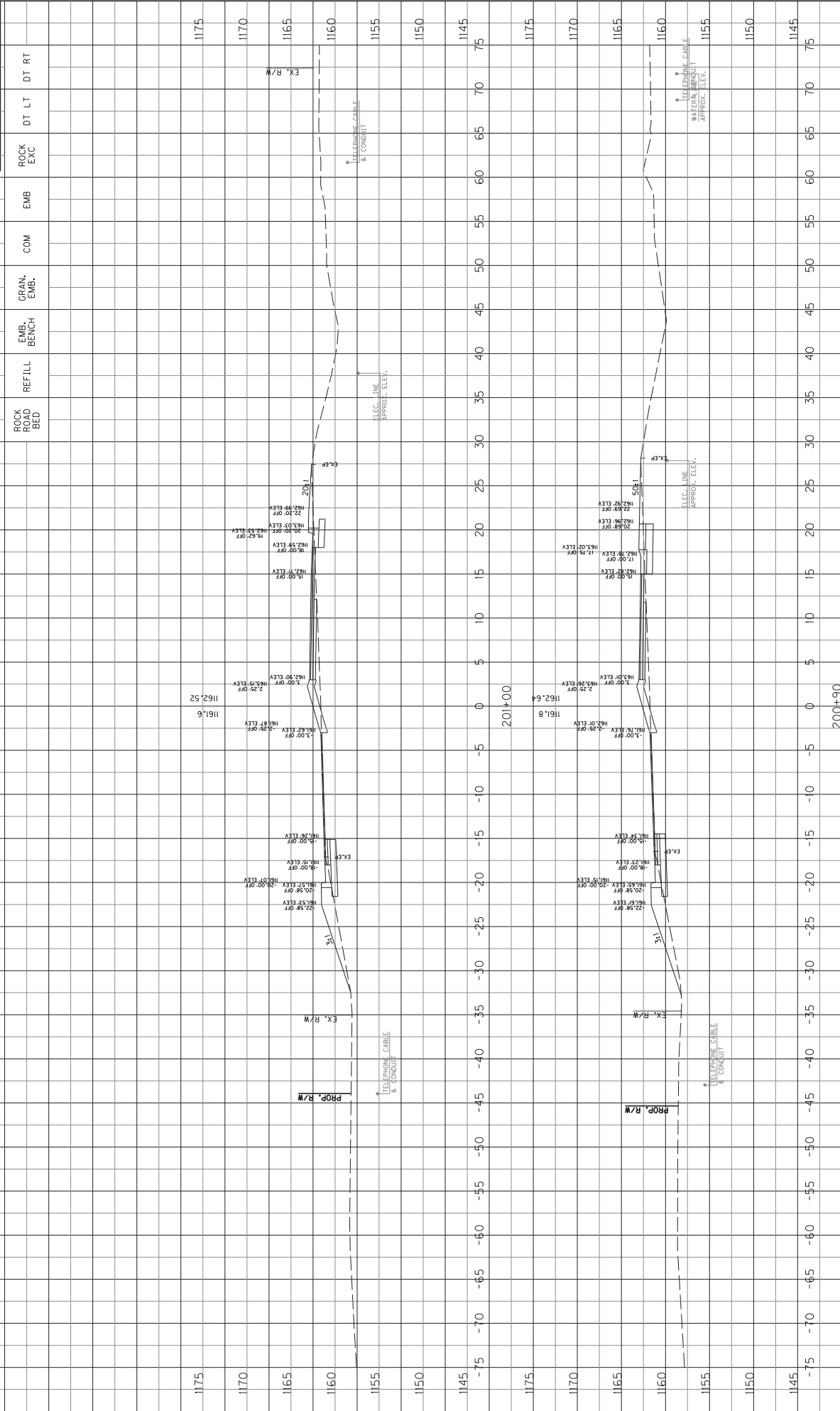
KY 229 CROSS SECTIONS
STA. 200+50 TO STA. 200+60



KY 229 CROSS SECTIONS
STA. 200+70 TO STA. 200+80

SCALE: 1" = 5' HORIZONTAL
1" = 1' VERTICAL

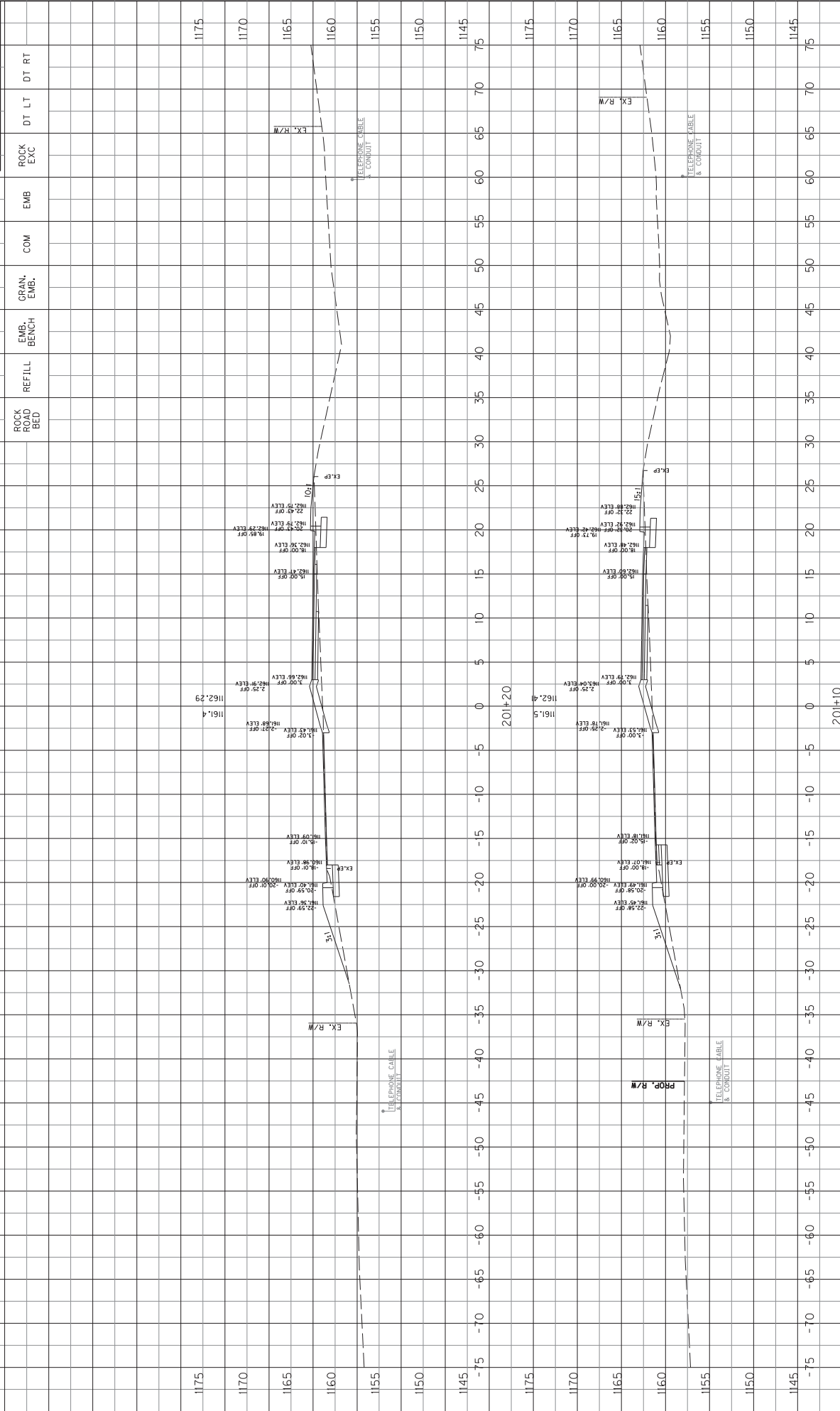
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	119



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

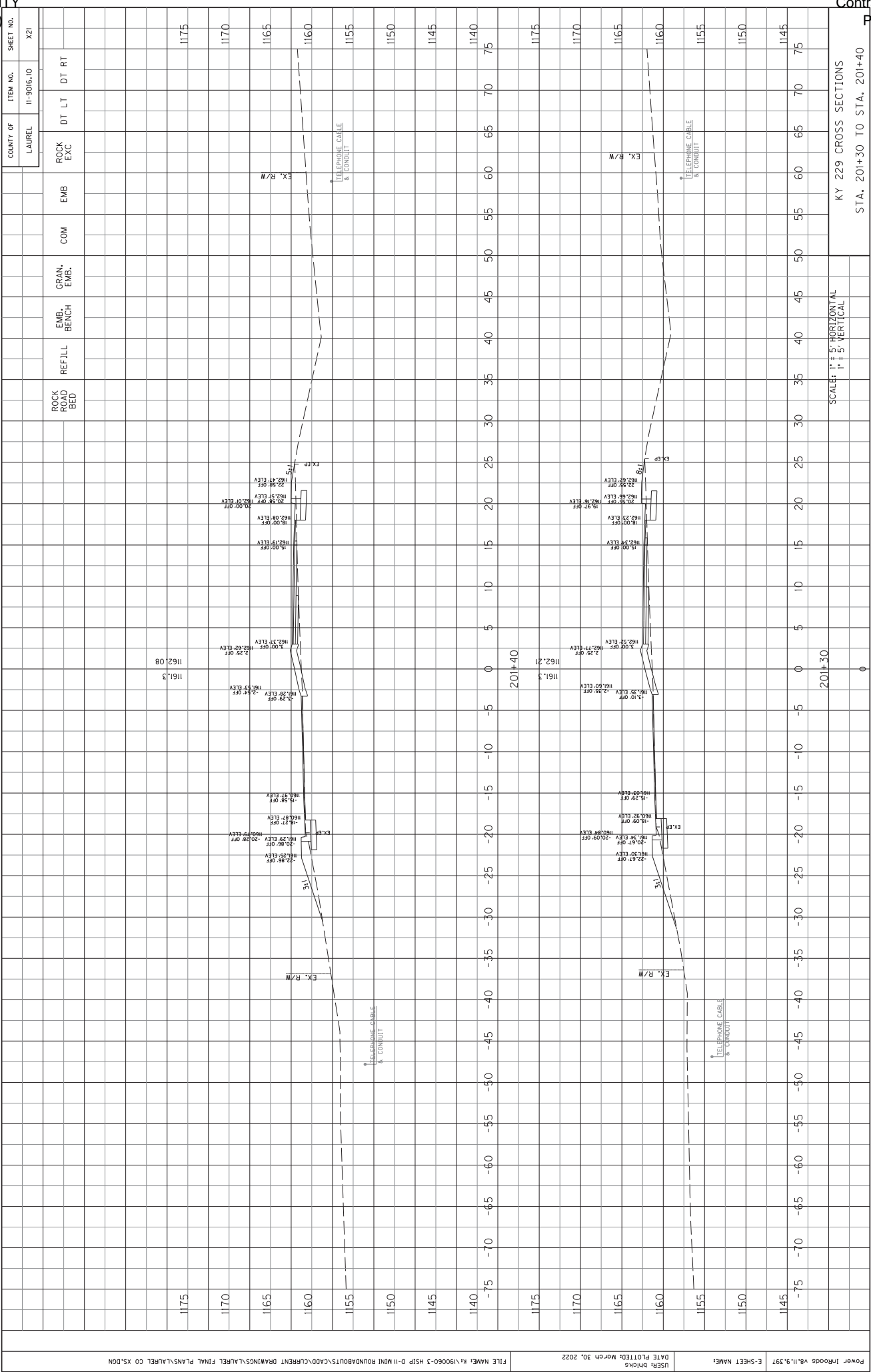
KY 229 CROSS SECTIONS
STA. 200+90 TO STA. 201+00

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X20



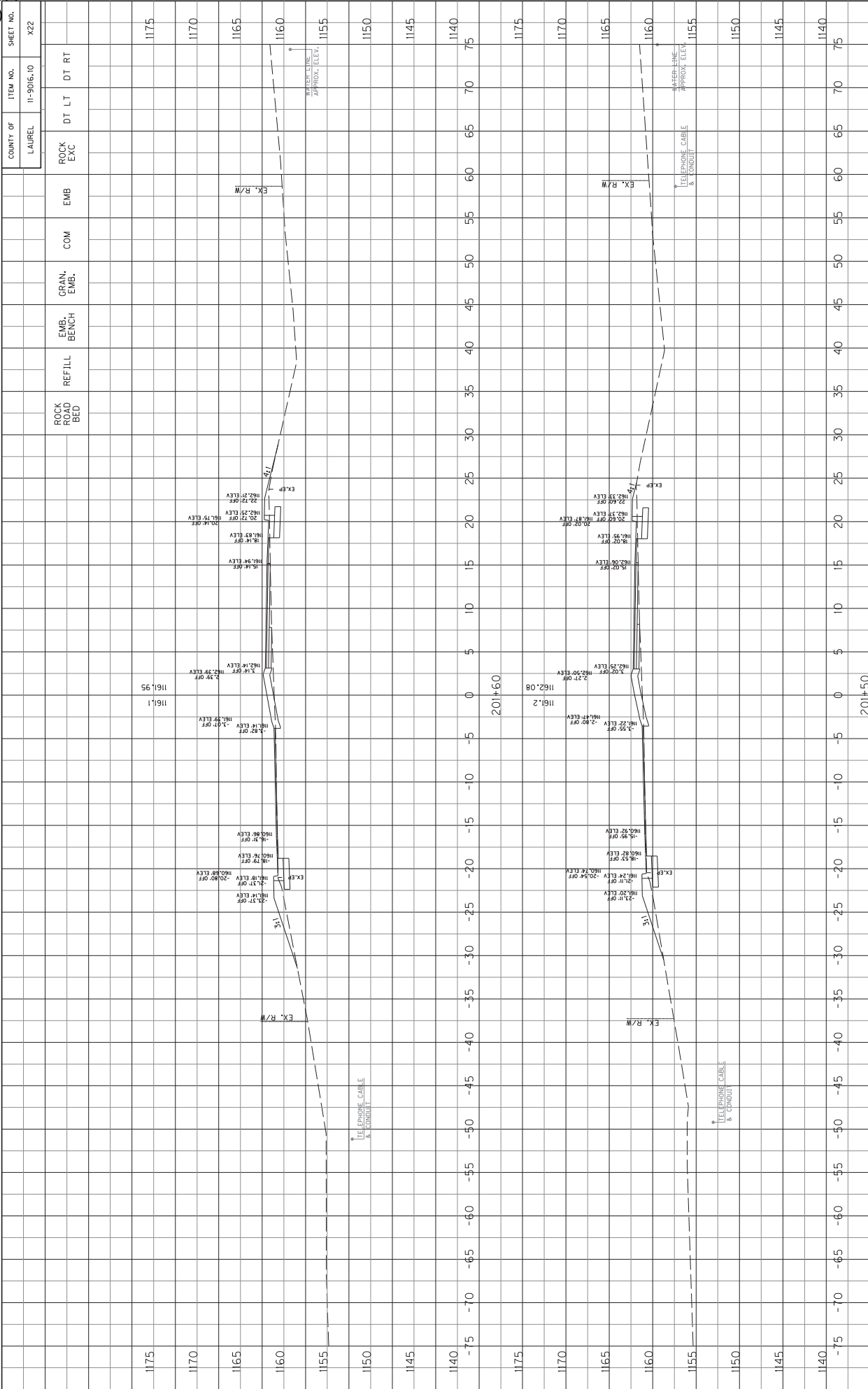
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 229 CROSS SECTIONS
STA. 201+10 TO STA. 201+20



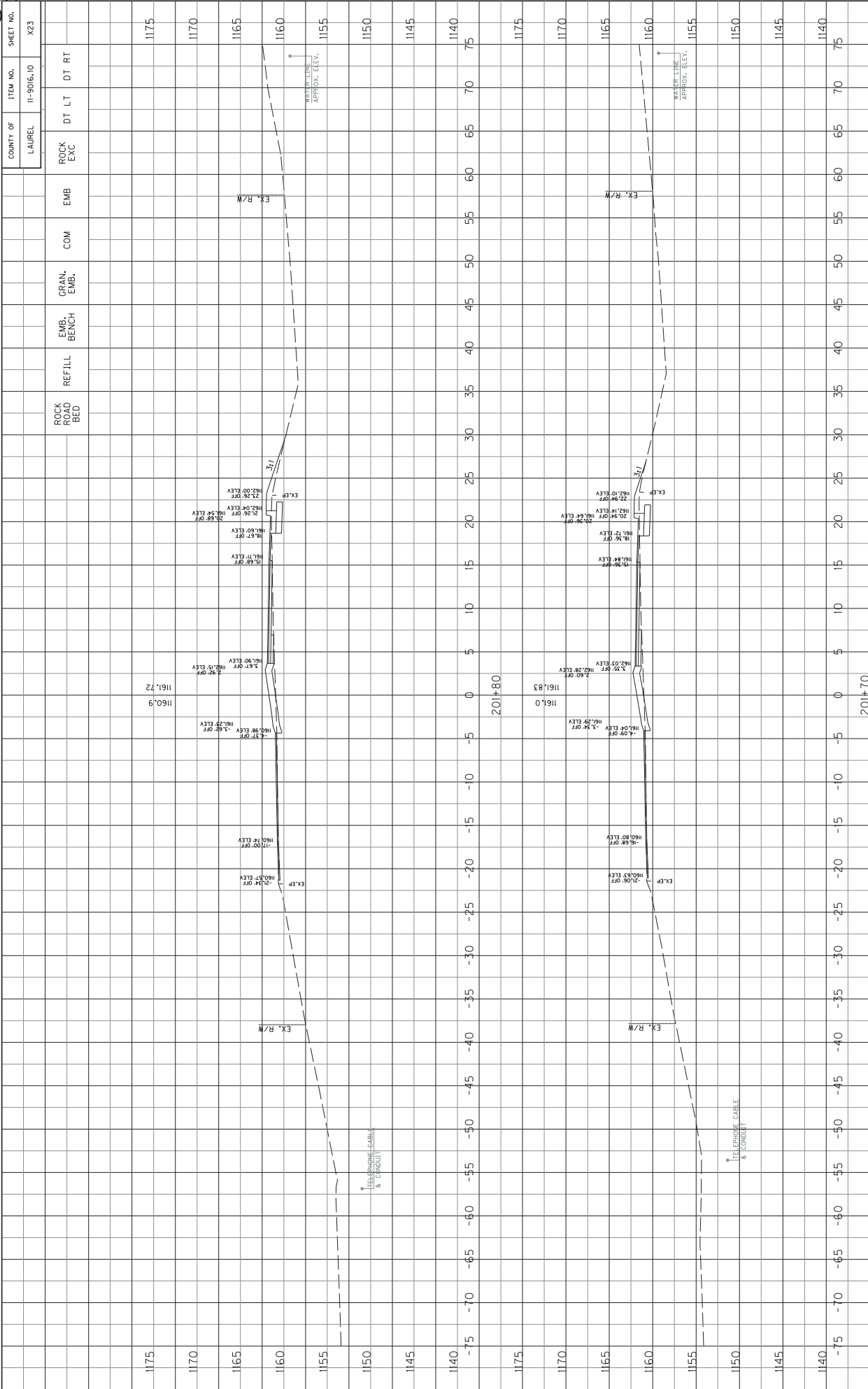
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 229 CROSS SECTIONS
STA. 201+30 TO STA. 201+40



COUNTY OF	ITEM NO.	SHEET NO.	DT	LT	DT	RT	ROCK EXC	EMB.	COM.	GRAN. EMB.	REFILL	EMB. BENCH	ROCK FILL BED	SCALE:	
														1" = 5' HORIZONTAL	1" = 5' VERTICAL
LAUREL	11-9016.10	X22													

KY 229 CROSS SECTIONS
STA. 201+50 TO STA. 201+60

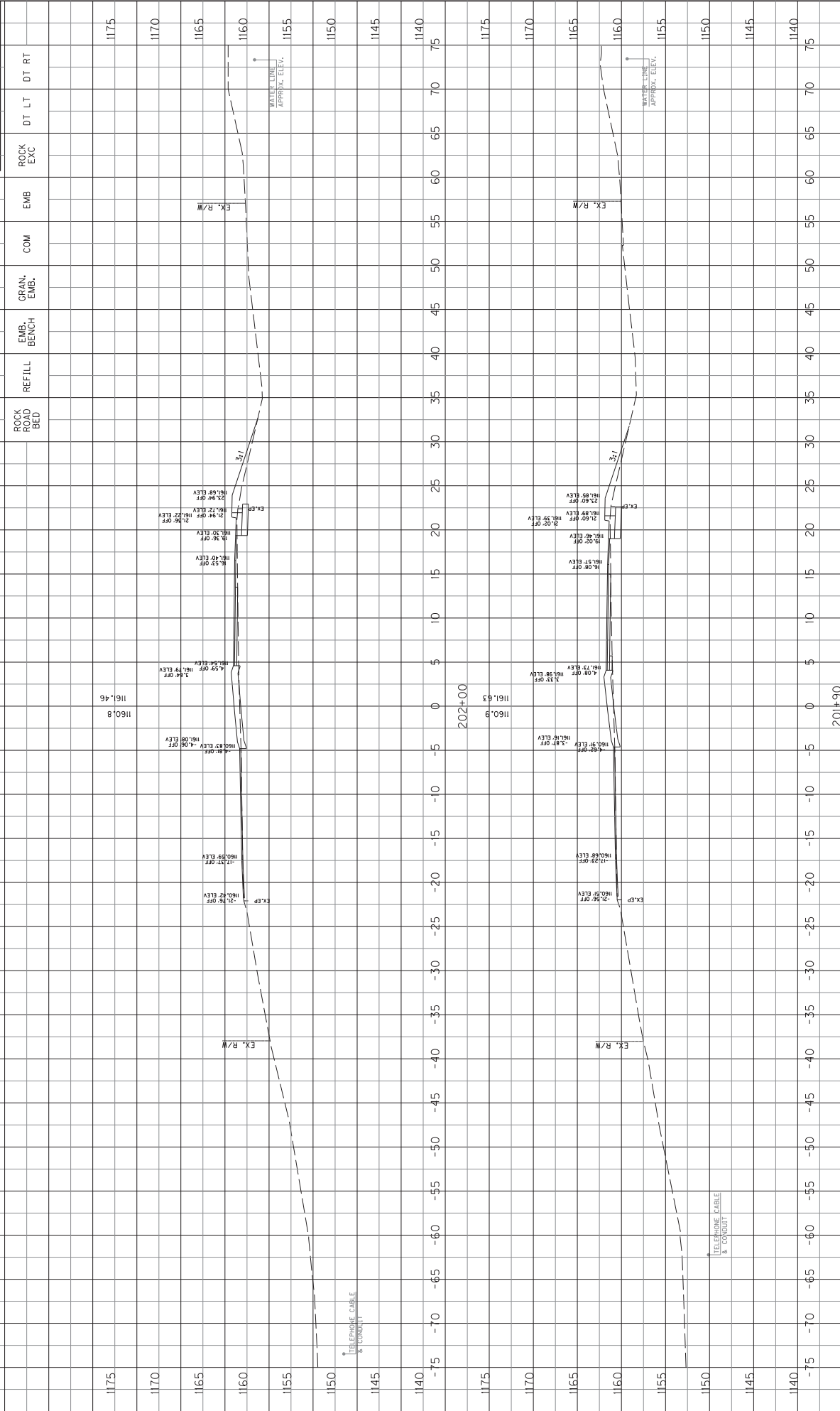


COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-5016.10	X23

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

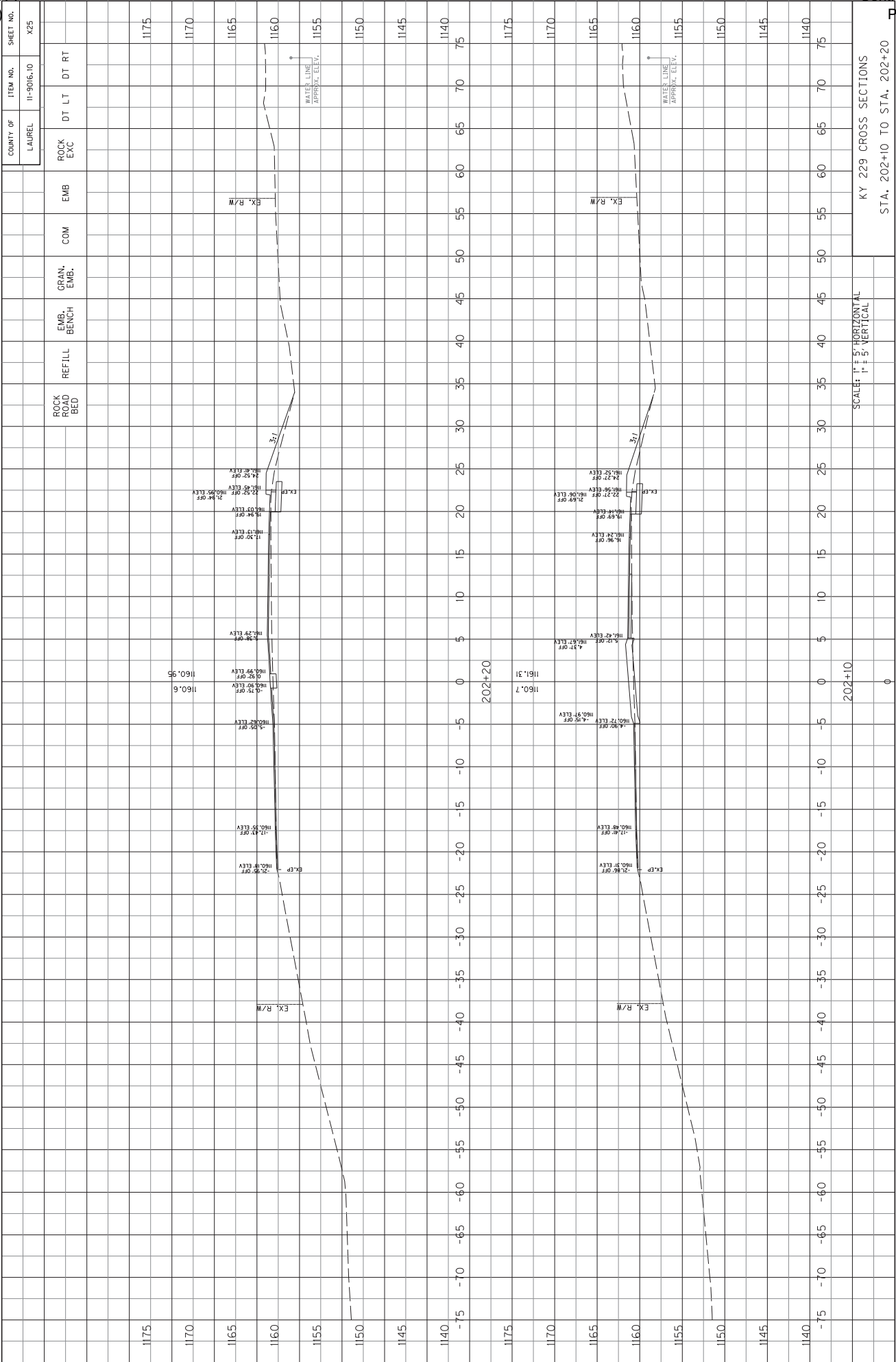
KY 229 CROSS SECTIONS
STA. 201+70 TO STA. 201+80

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X24



SCALE: 1" = 5' HORIZONTAL
1" = 1' VERTICAL

KY 229 CROSS SECTIONS
STA. 201+90 TO STA. 202+00



COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X25

ROCK ROAD BED	REFILL	EMB. BENCH	GRAN. EMB.	COM.	EMB.	ROCK EXC.	DT LT	DT RT
							70	75
							65	70
							60	65
							55	60
							50	55
							45	50
							40	45
							35	40
							30	35
							25	30
							20	25
							15	20
							10	15
							5	10
							0	5
							-5	0
							-10	-5
							-15	-10
							-20	-15
							-25	-20
							-30	-25
							-35	-30
							-40	-35
							-45	-40
							-50	-45
							-55	-50
							-60	-55
							-65	-60
							-70	-65
							-75	-70

SCALE:	HORIZONTAL	VERTICAL
1" = 10'	1" = 5'	1" = 5'

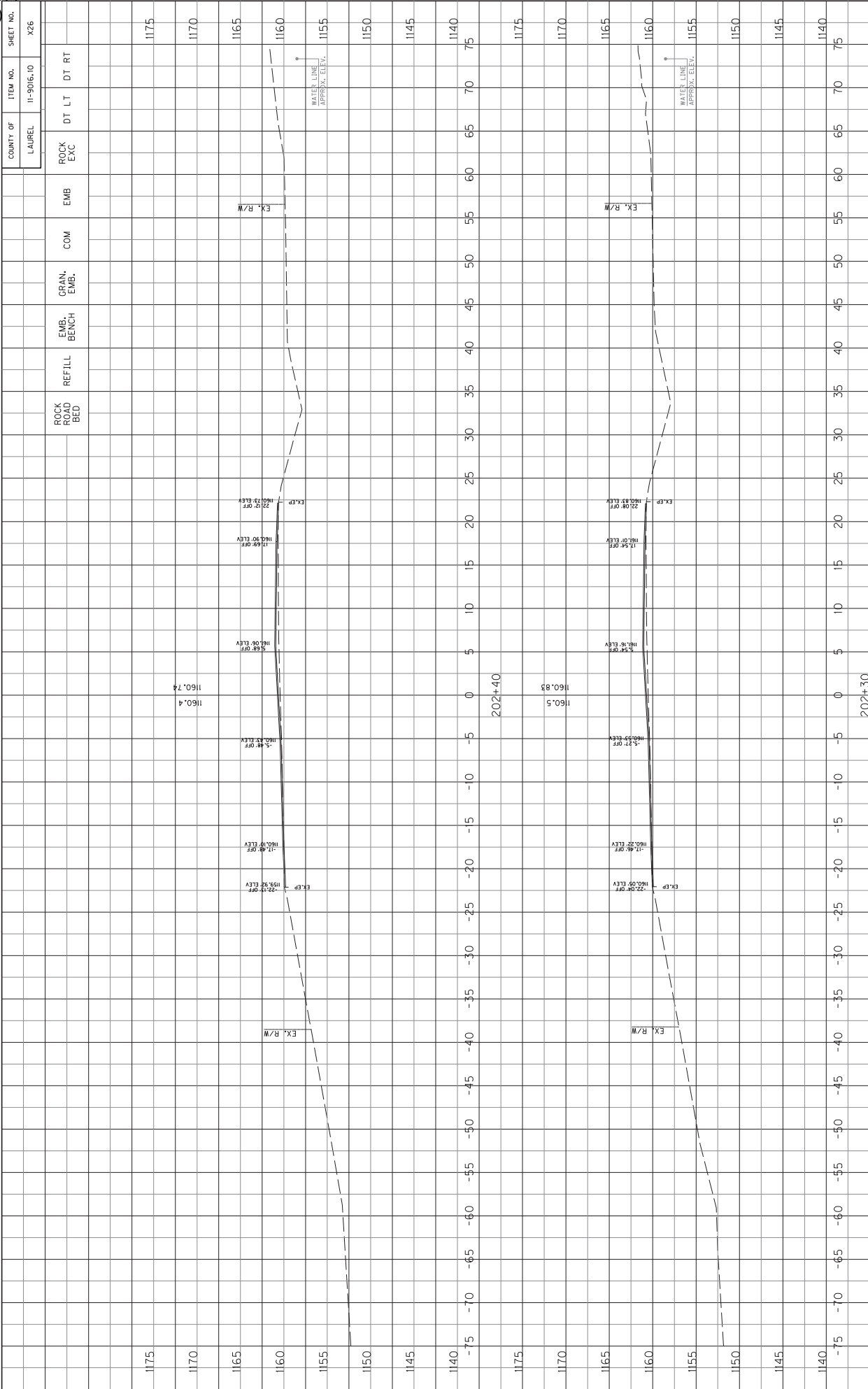
FILE NAME:	DATE PLOTTED:	USER:	E-SHEET NAME:
K:\19060-3 HSIP 0-11 MINI ROUNDABOUTS\CAD\CURRENT DRAWINGS\LAUREL CO.XS.DGN	March 30, 2022	shicks	11-9016.10

KY 229 CROSS SECTIONS
STA. 202+10 TO STA. 202+20

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

202+10

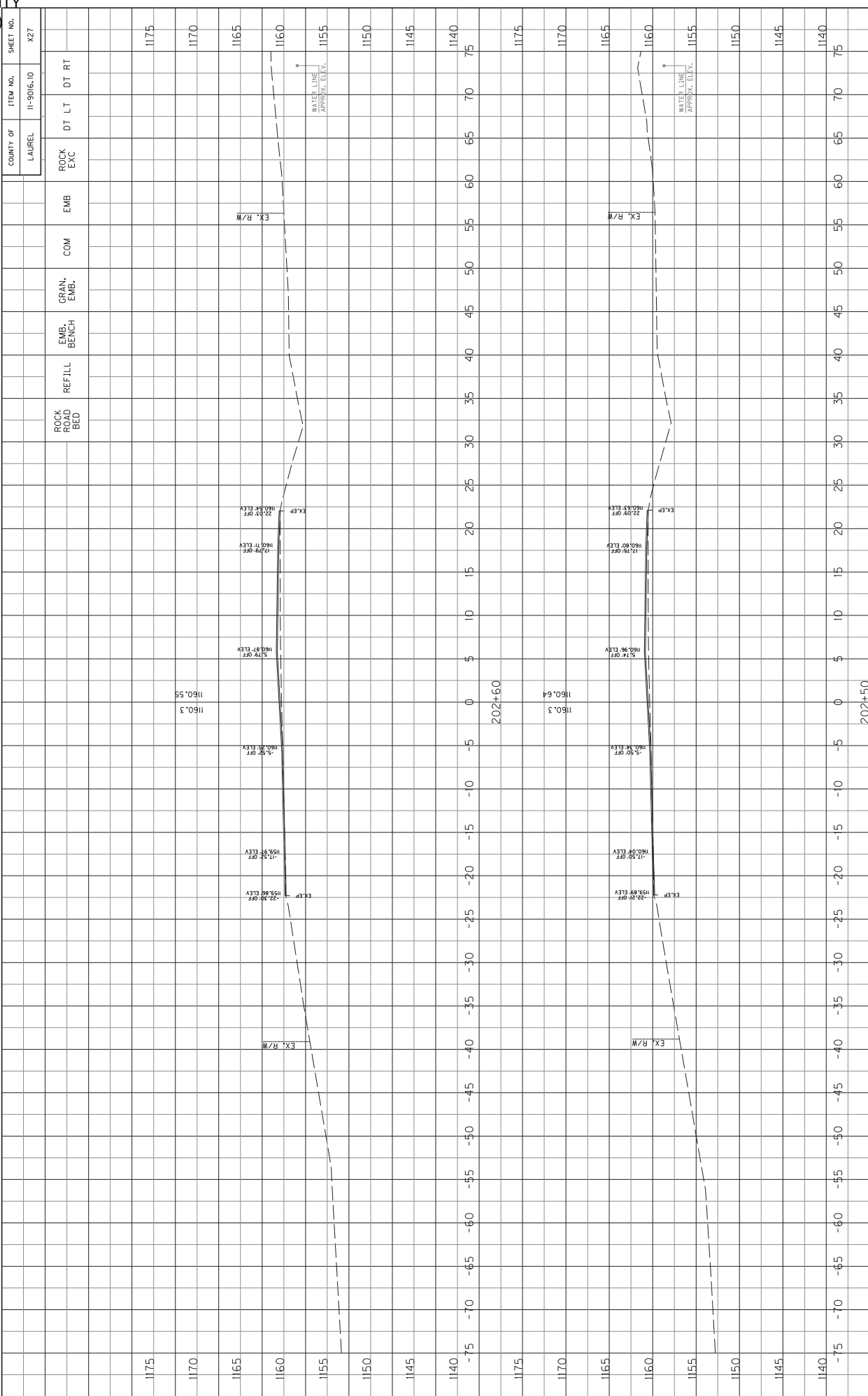
202+20



COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X26

KY 229 CROSS SECTIONS
STA. 202+30 TO STA. 202+40

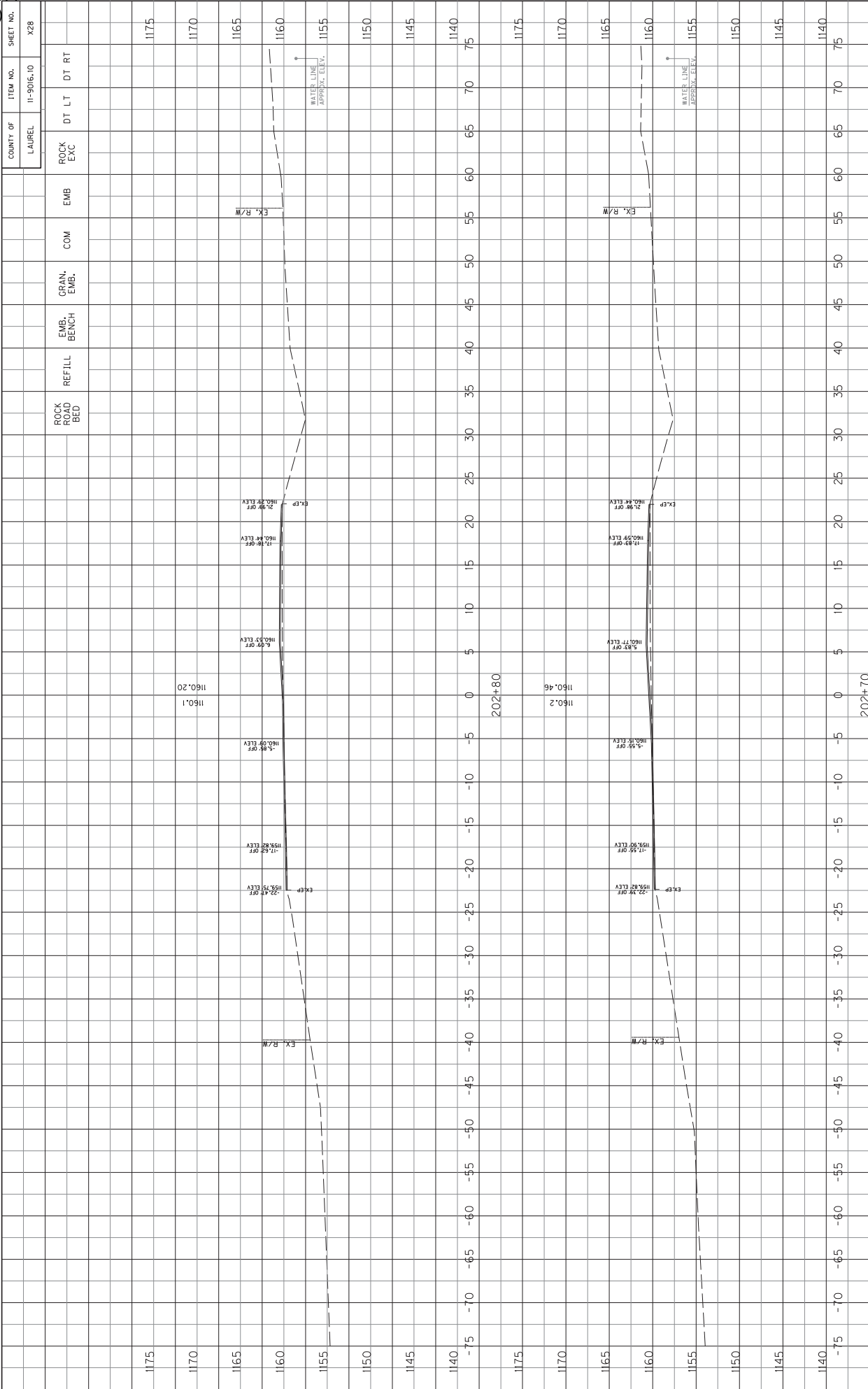
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL



COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X27

KY 229 CROSS SECTIONS
STA. 202+50 TO STA. 202+60

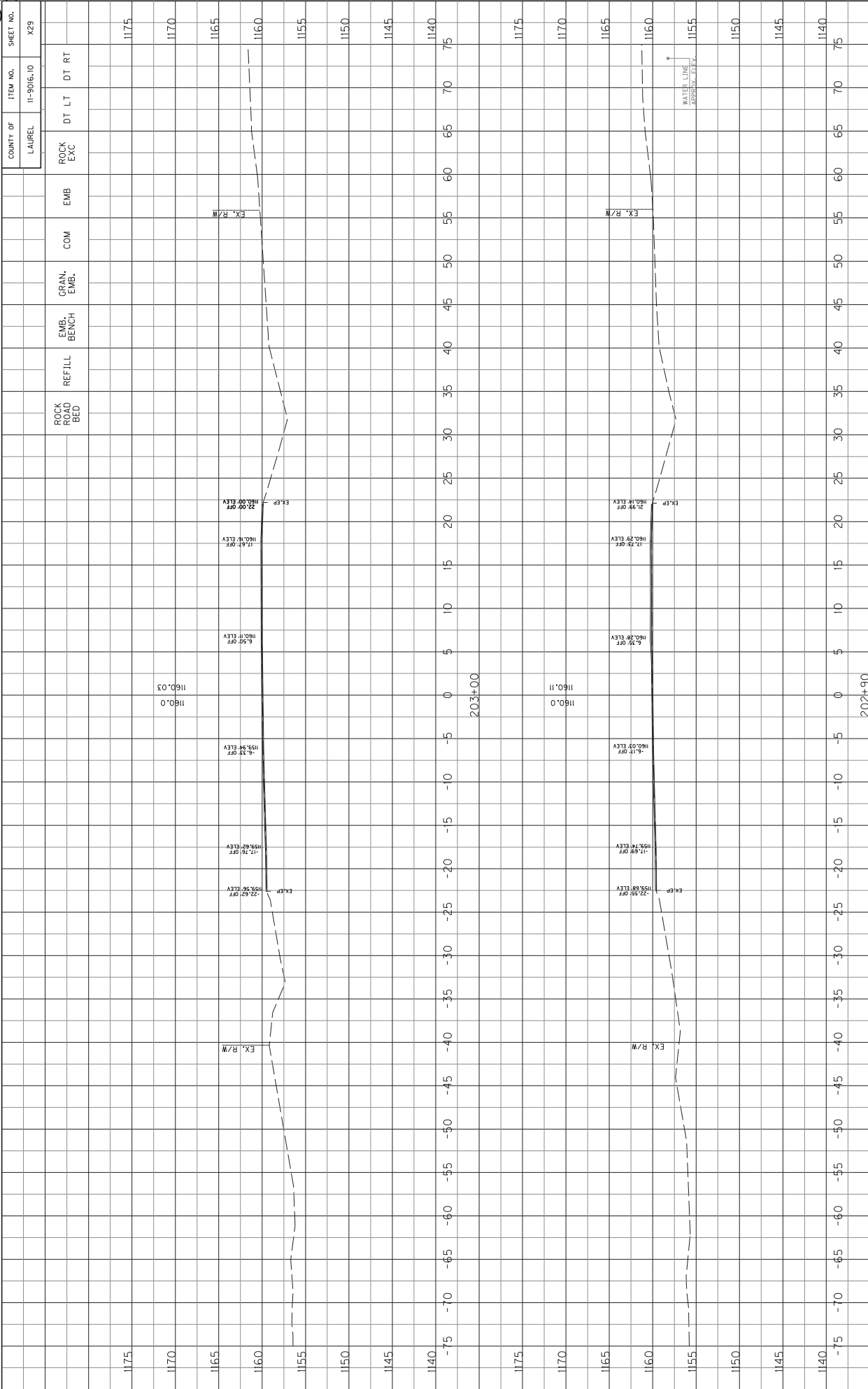
SCALE: 1:1.5 HORIZONTAL
1:1.5 VERTICAL



COUNT OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X28

KEY 229 CROSS SECTIONS
STA. 202+70 TO STA. 202+80

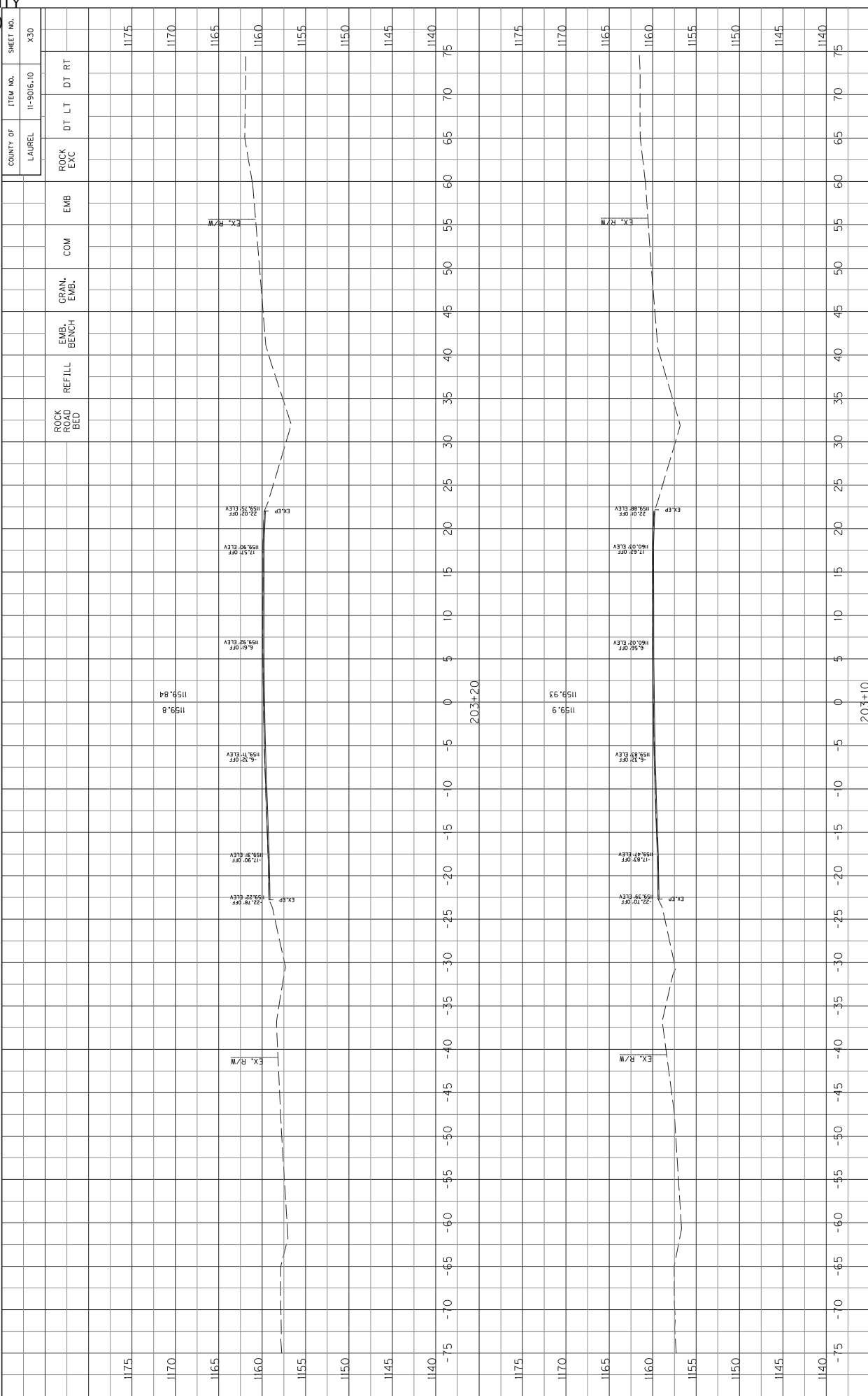
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL



USFR: bricks DATE PLOTTED: March 30, 2022 FILE NAME: K:\19060-3-HSP-D-11-MINI ROUNDABOUTS\CAD\CURRENT DRAWINGS\LAUREL_FINAL_PLANS\LAUREL_CO_XS.DGN Power InRoads v8.11.937 E-SHEET NAME: KY 229 CROSS SECTIONS STA. 202+90 TO STA. 203+00

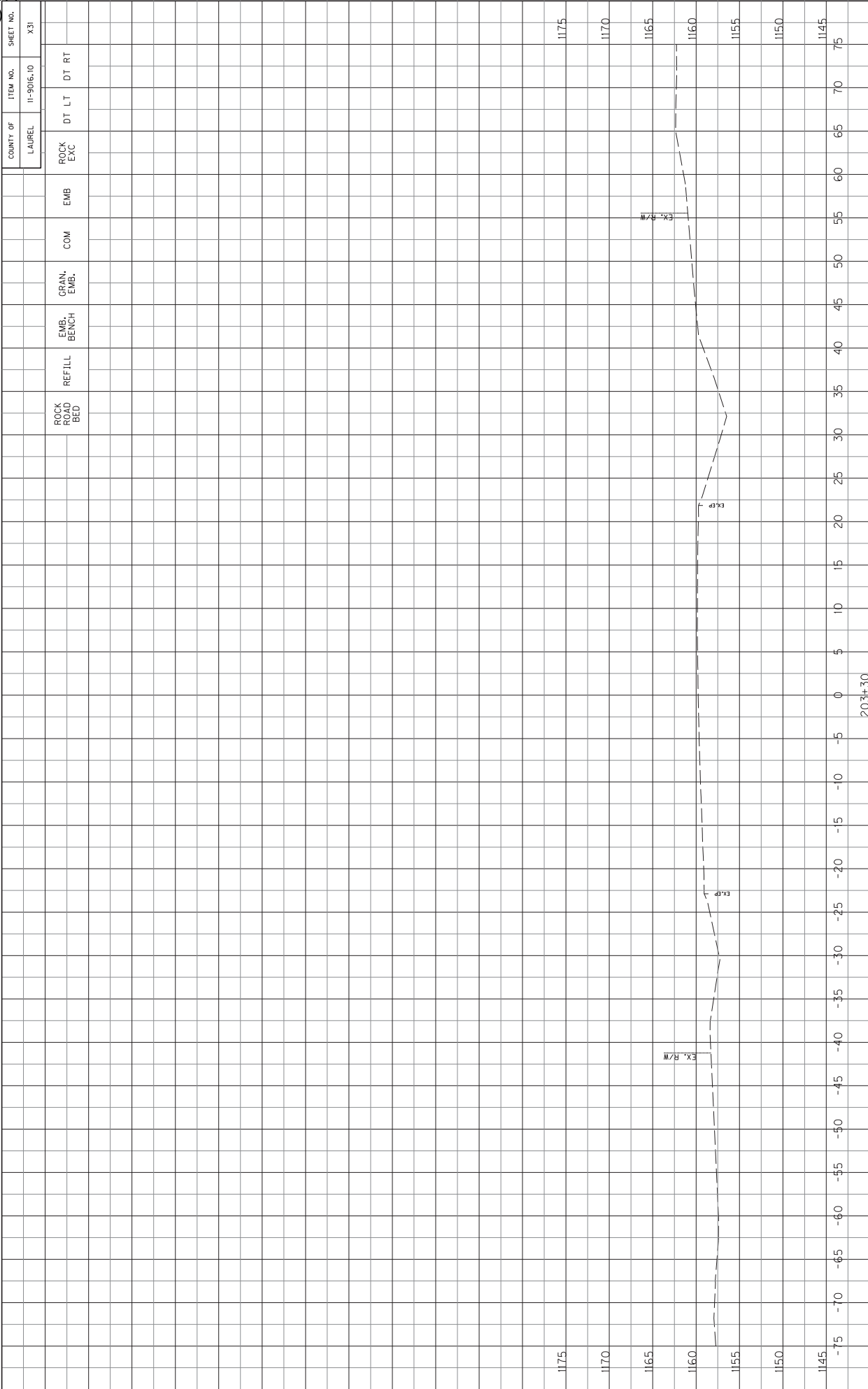
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 229 CROSS SECTIONS
STA. 202+90 TO STA. 203+00



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

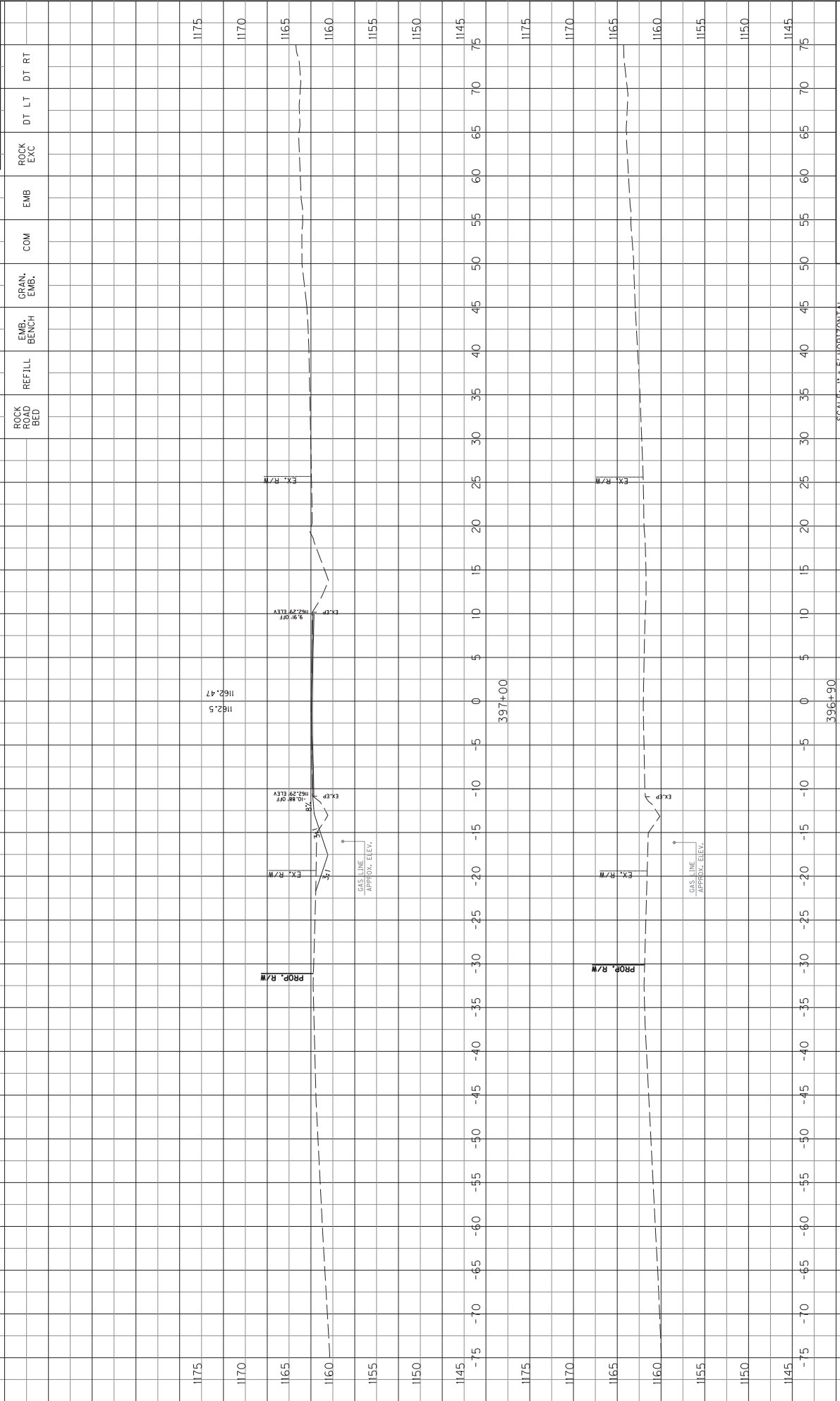
KY 229 CROSS SECTIONS
STA. 203+10 TO STA. 203+20



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 229 CROSS SECTIONS
STA. 203+30 TO STA. 203+30

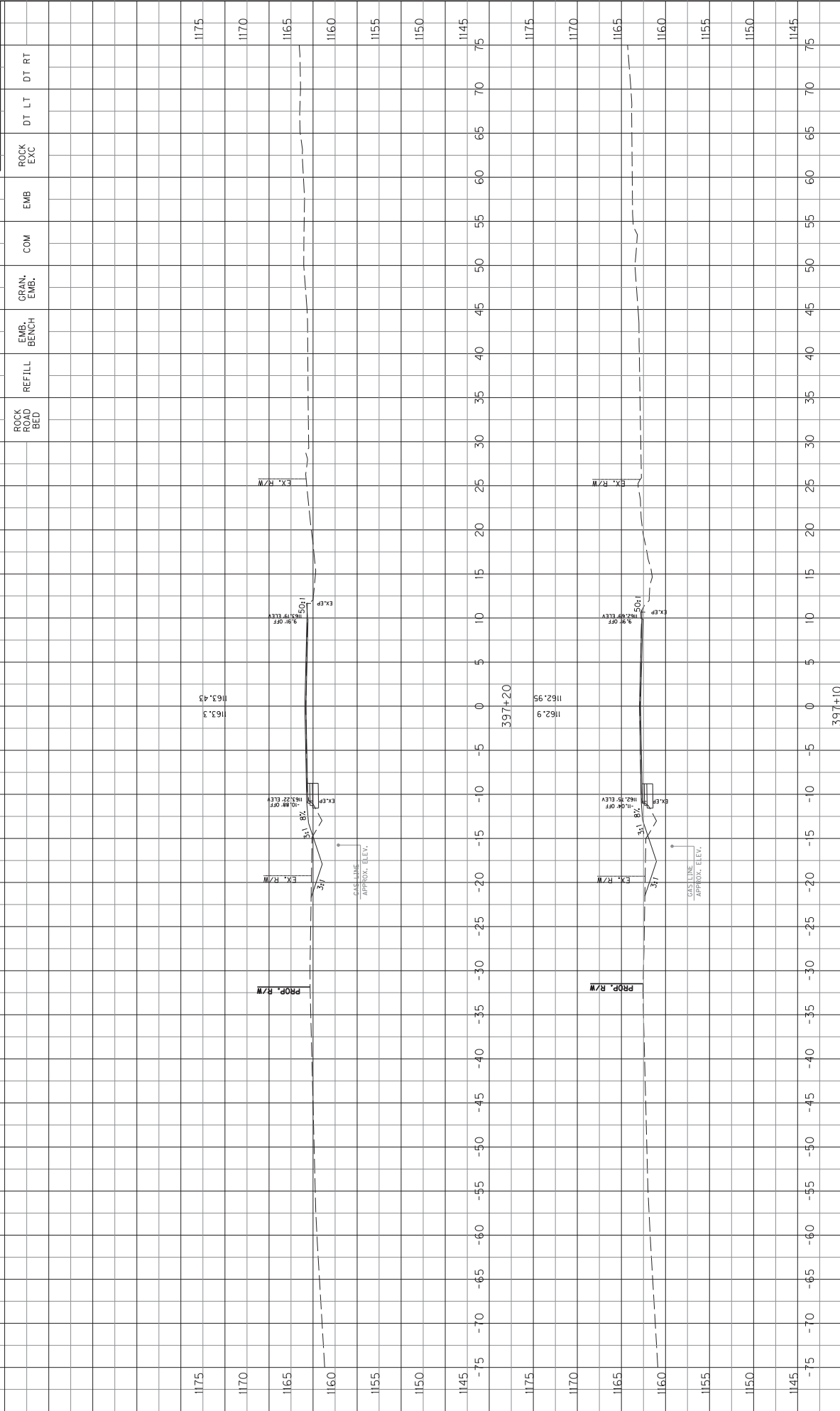
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X32



KY 1189 CROSS SECTIONS
STA. 396+90 TO STA. 397+00

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

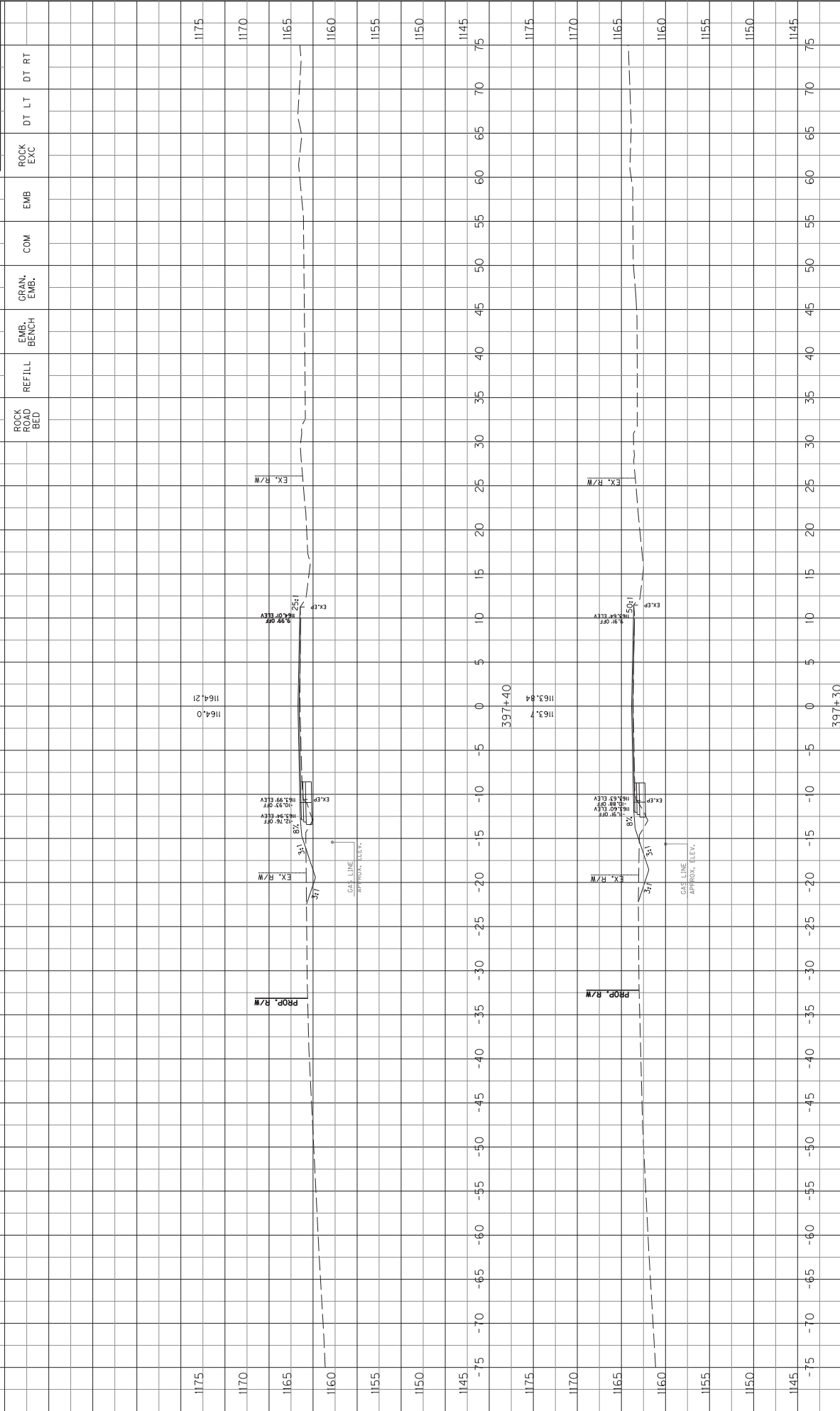
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X33



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 1189 CROSS SECTIONS
STA. 397+10 TO STA. 397+20

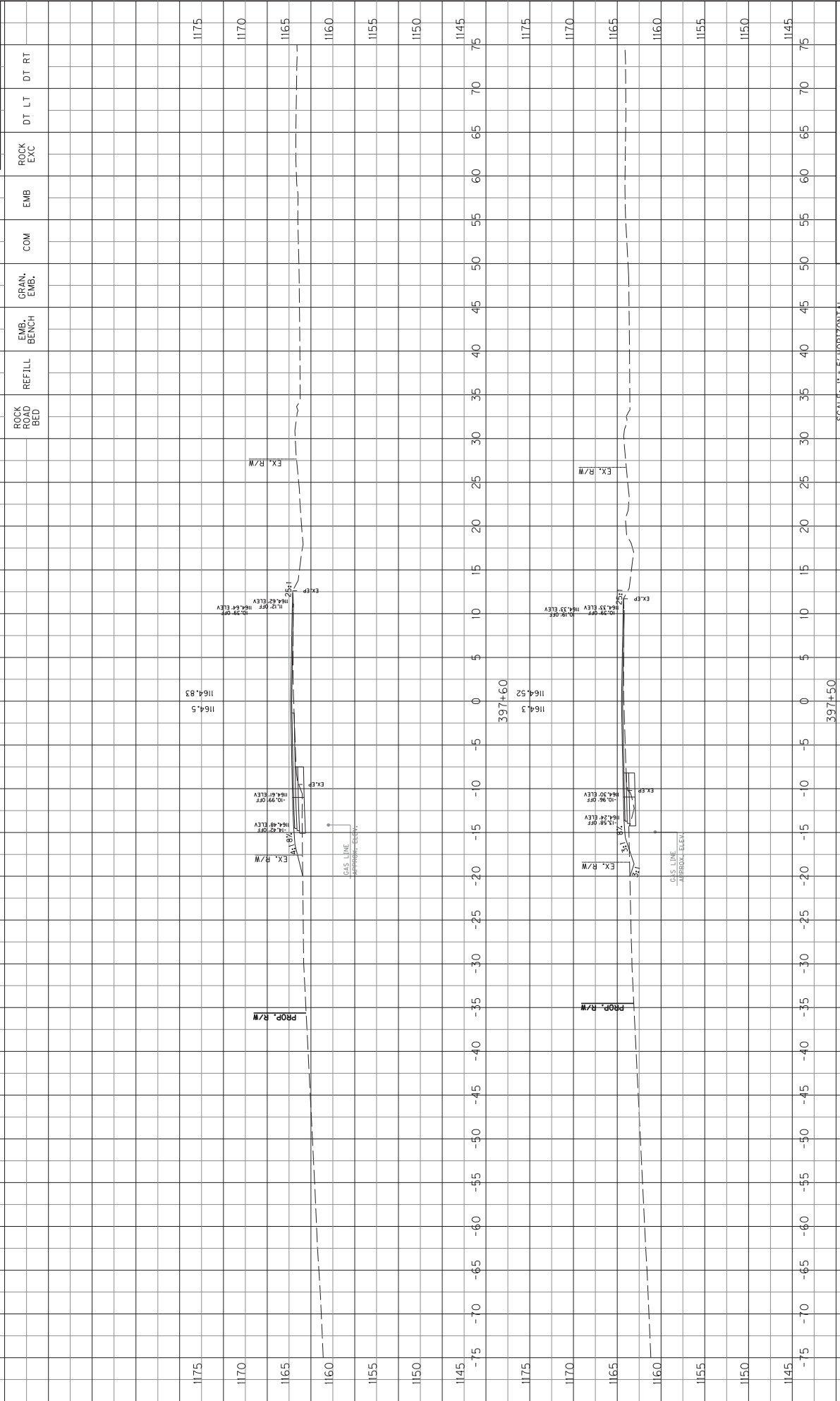
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X34



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

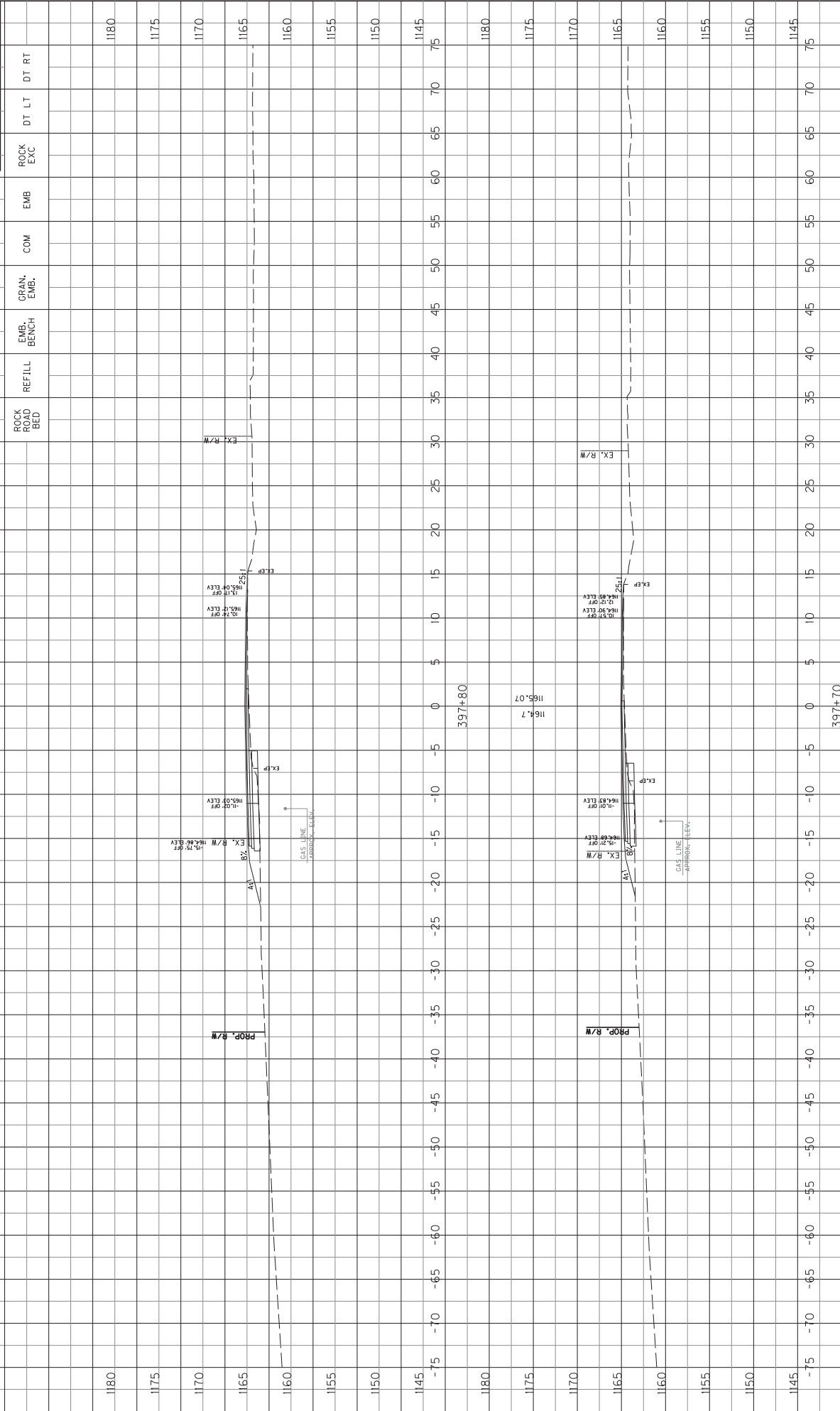
KY 1189 CROSS SECTIONS
STA. 397+30 TO STA. 397+40

COUNT OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X35



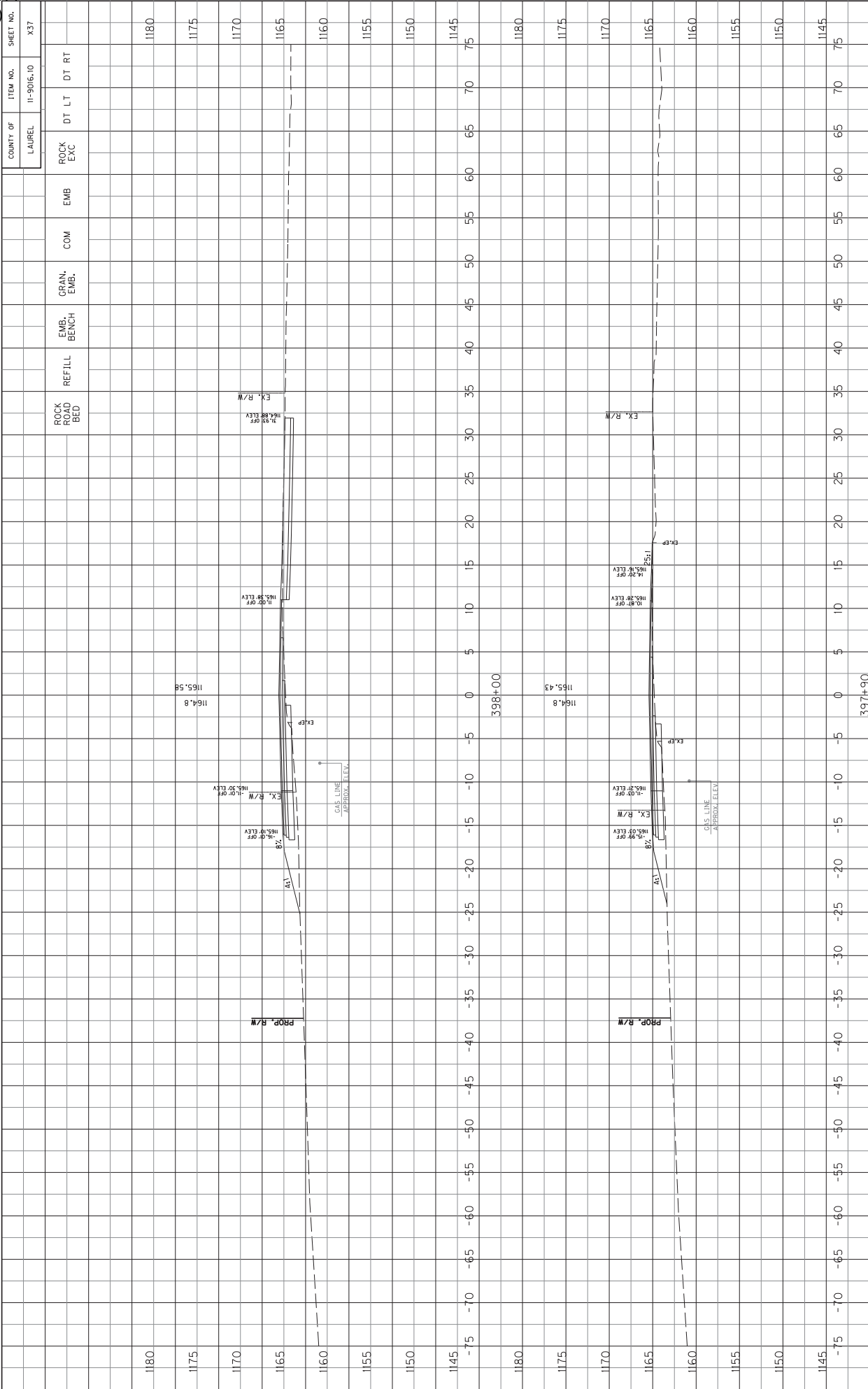
KY 1189 CROSS SECTIONS
STA. 397+50 TO STA. 397+60

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X36



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

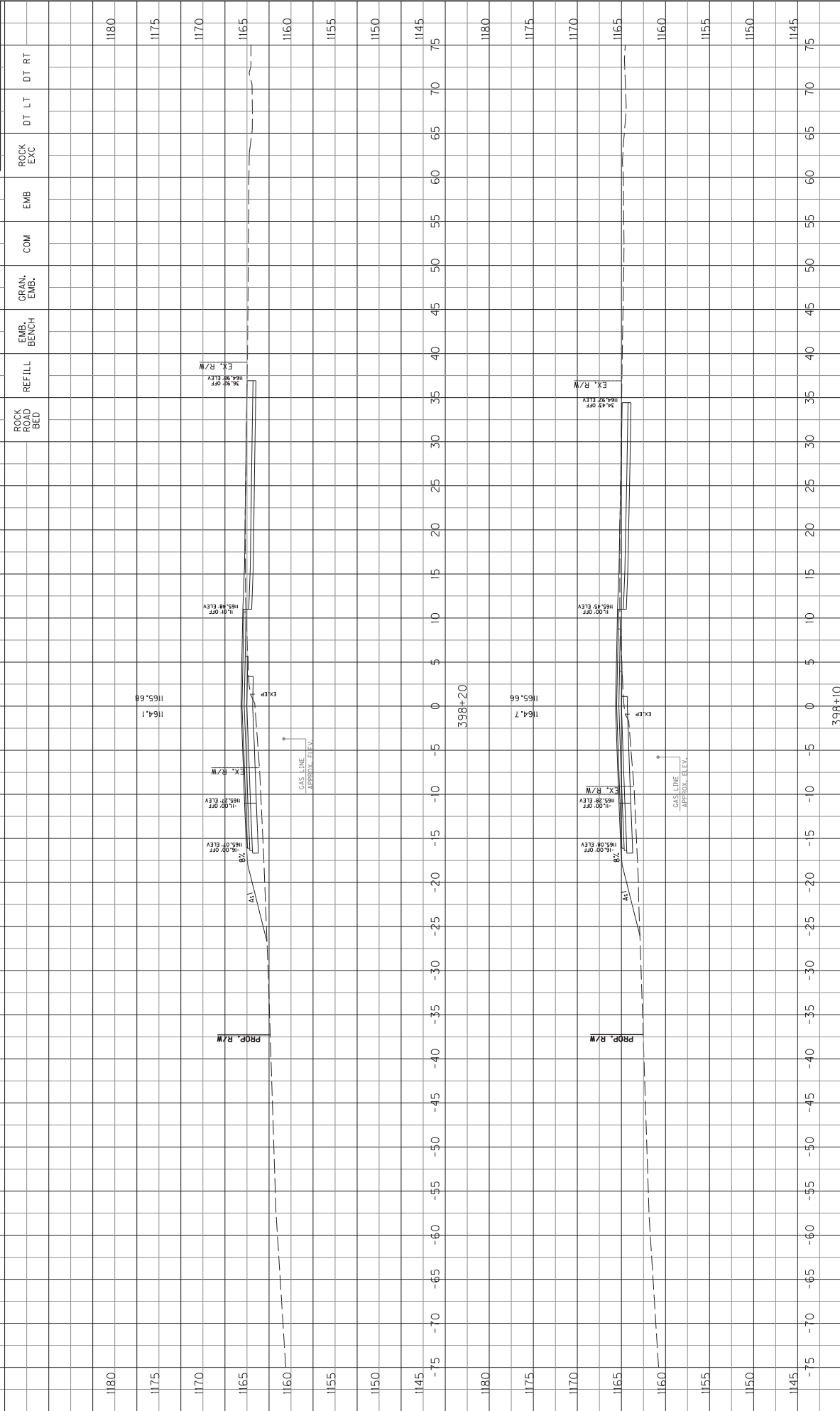
KY 1189 CROSS SECTIONS
STA. 397+70 TO STA. 397+80



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

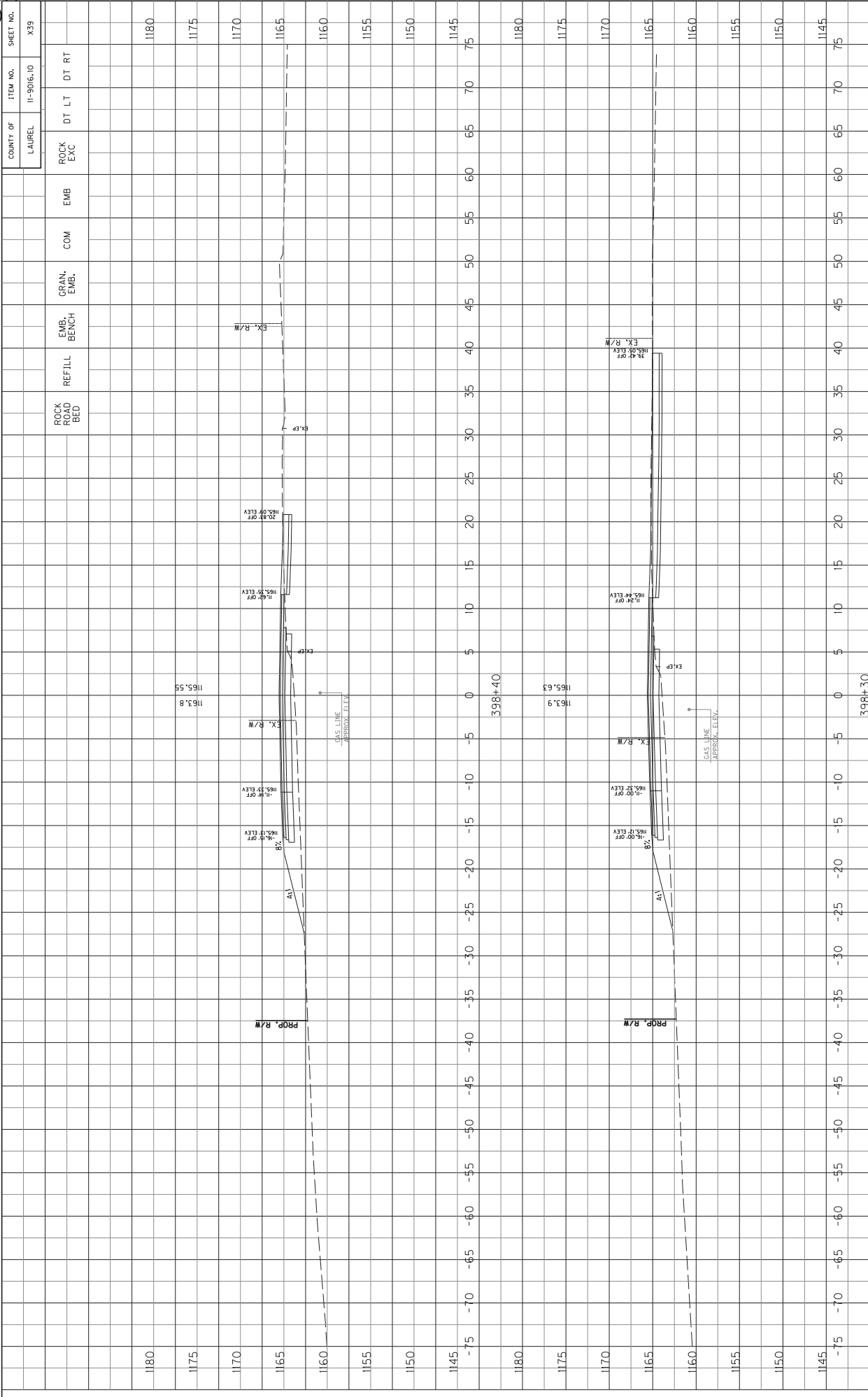
KY 1189 CROSS SECTIONS
STA. 397+90 TO STA. 398+00

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X38



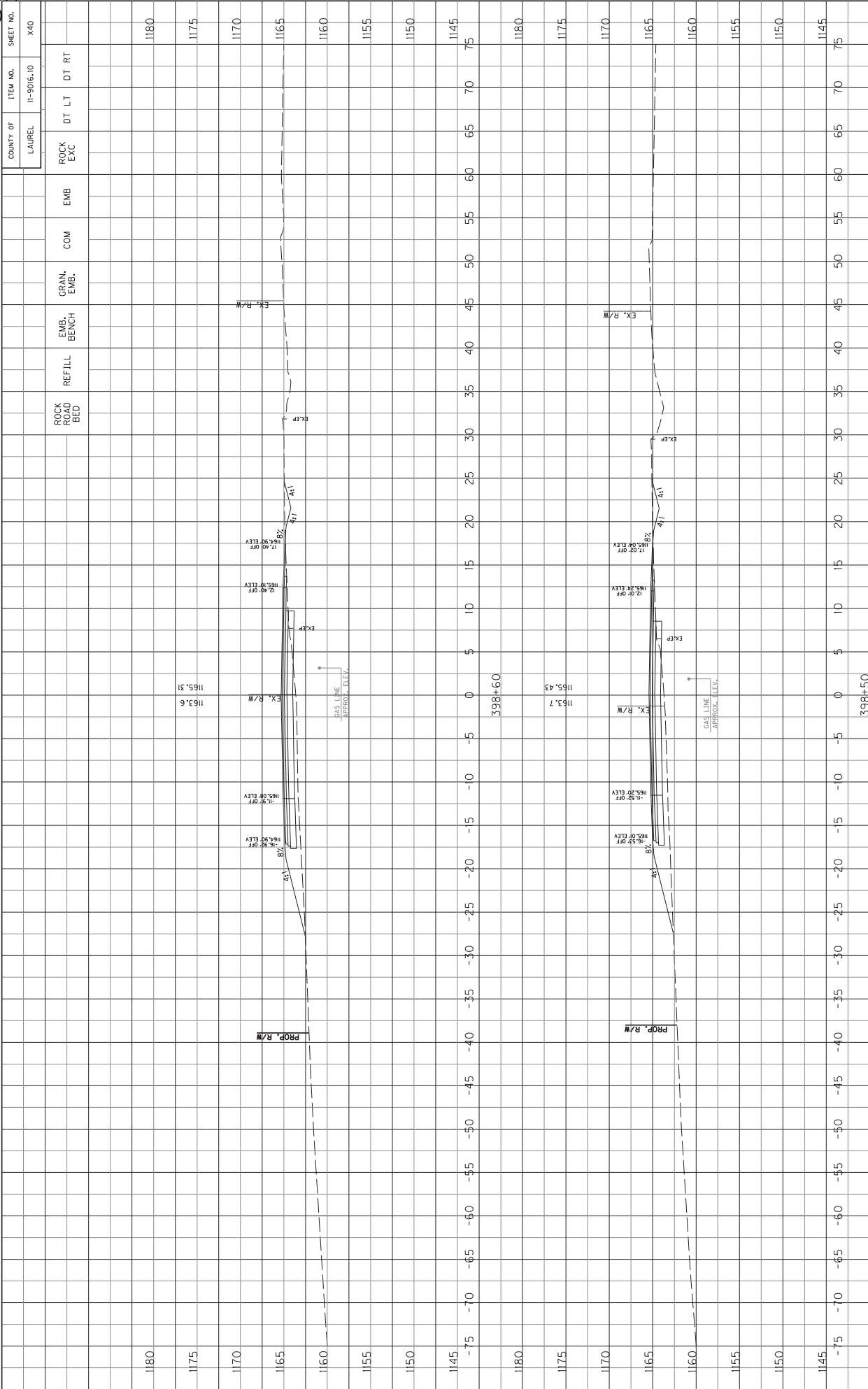
SCALE: 1" = 5' HORIZONTAL
1" = 1.5' VERTICAL

KY 1189 CROSS SECTIONS
STA. 398+10 TO STA. 398+20



SCALE: 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

KY 1189 CROSS SECTIONS
 STA. 398+30 TO STA. 398+40



COUNT OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X40

LAUREL COUNTY
HSIP 5274(010)

LAUREL COUNTY
HSIP 5274(010)

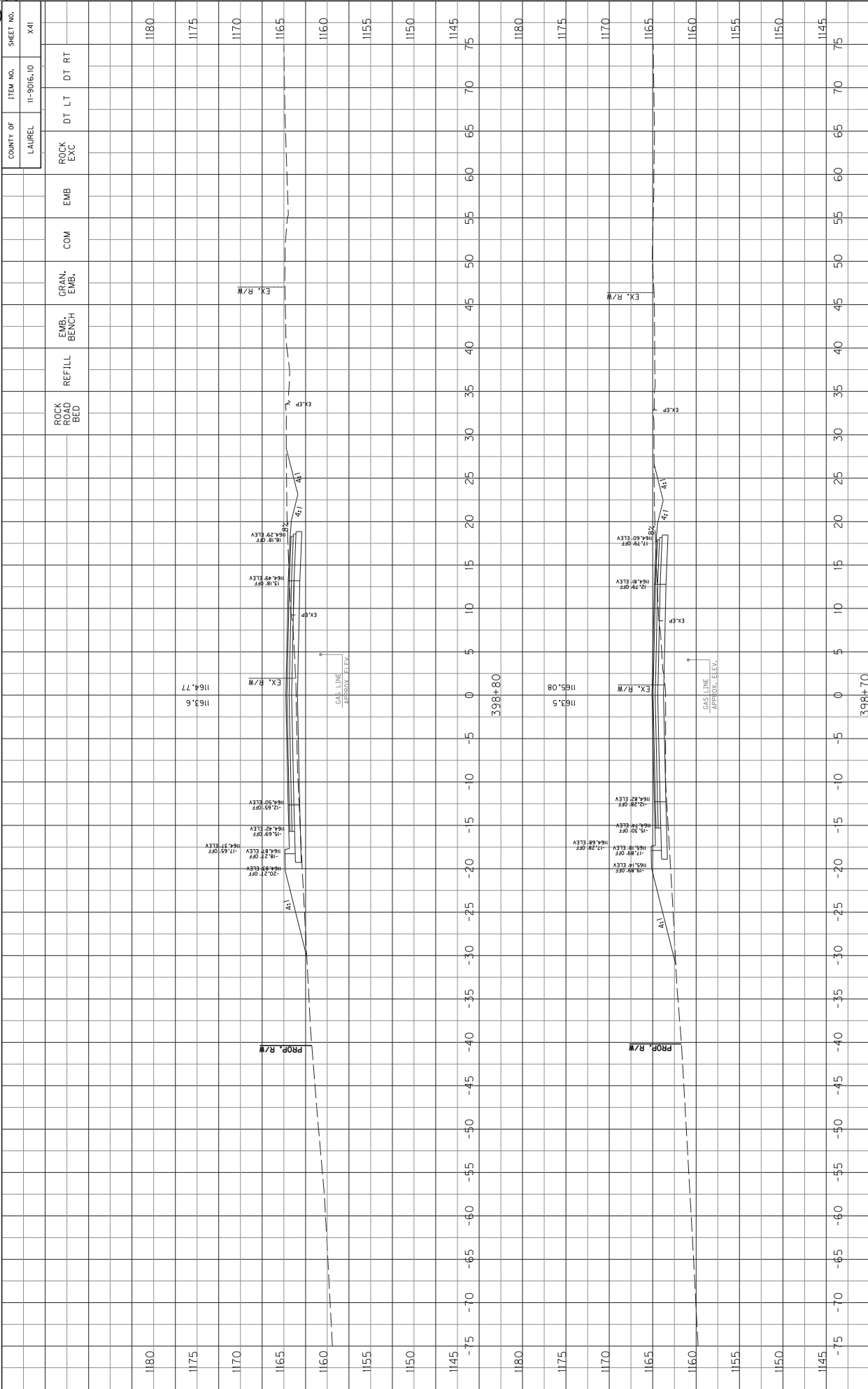
LAUREL COUNTY
HSIP 5274(010)

LAUREL COUNTY
HSIP 5274(010)

LAUREL COUNTY
HSIP 5274(010)

LAUREL COUNTY
HSIP 5274(010)

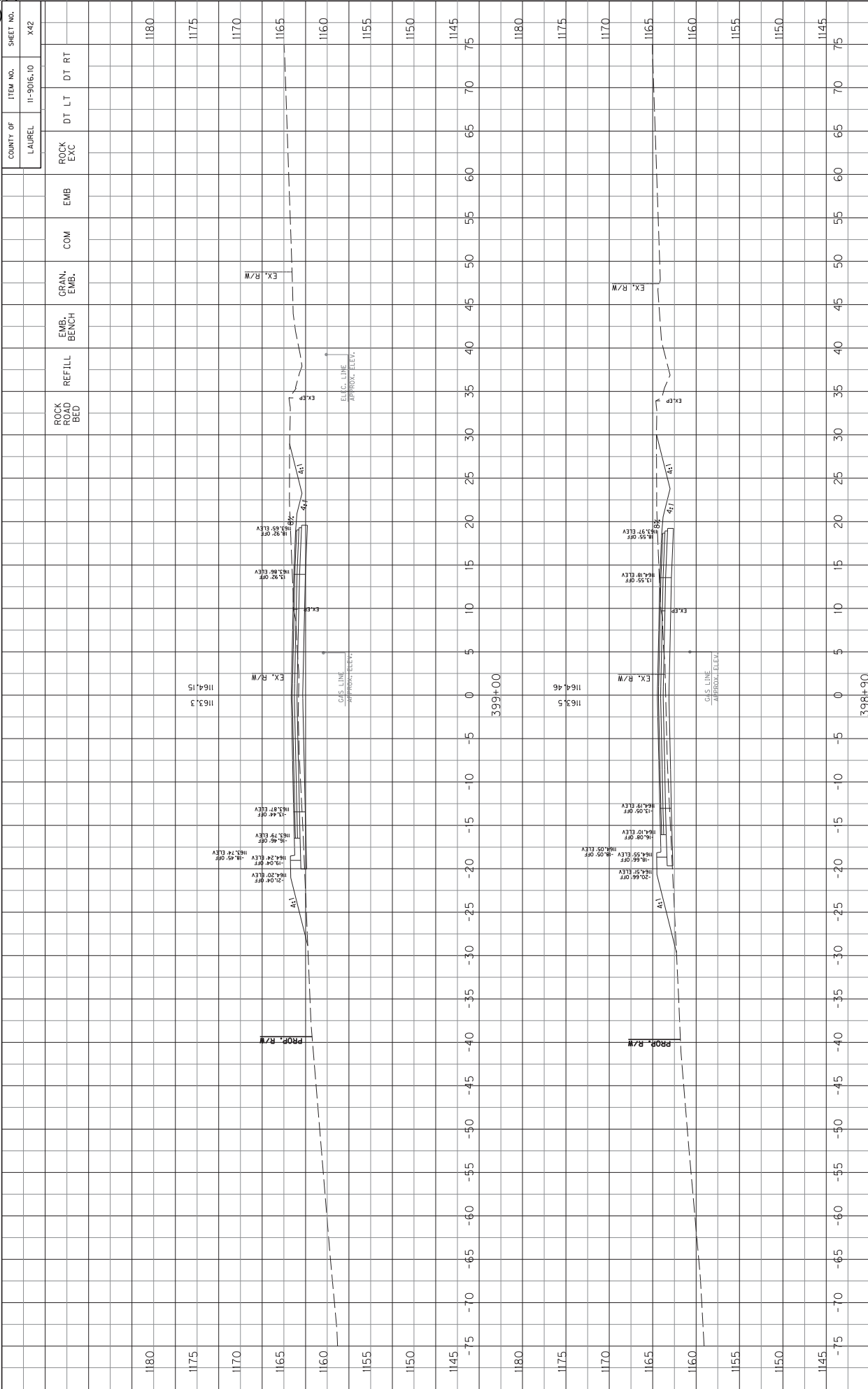
LAUREL COUNTY
HSIP 5274(010)



COUNT OF	ITEM NO.	SHEET NO.	DT	LT	RT	ROCK EXC	EMB	COM	GRAN. EMB.	EMB. BENCH	REFILL	ROCK ROAD BED	LAUREL	
													LAUREL	11-9016.10
		X41												

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 1189 CROSS SECTIONS
STA. 398+70 TO STA. 398+80



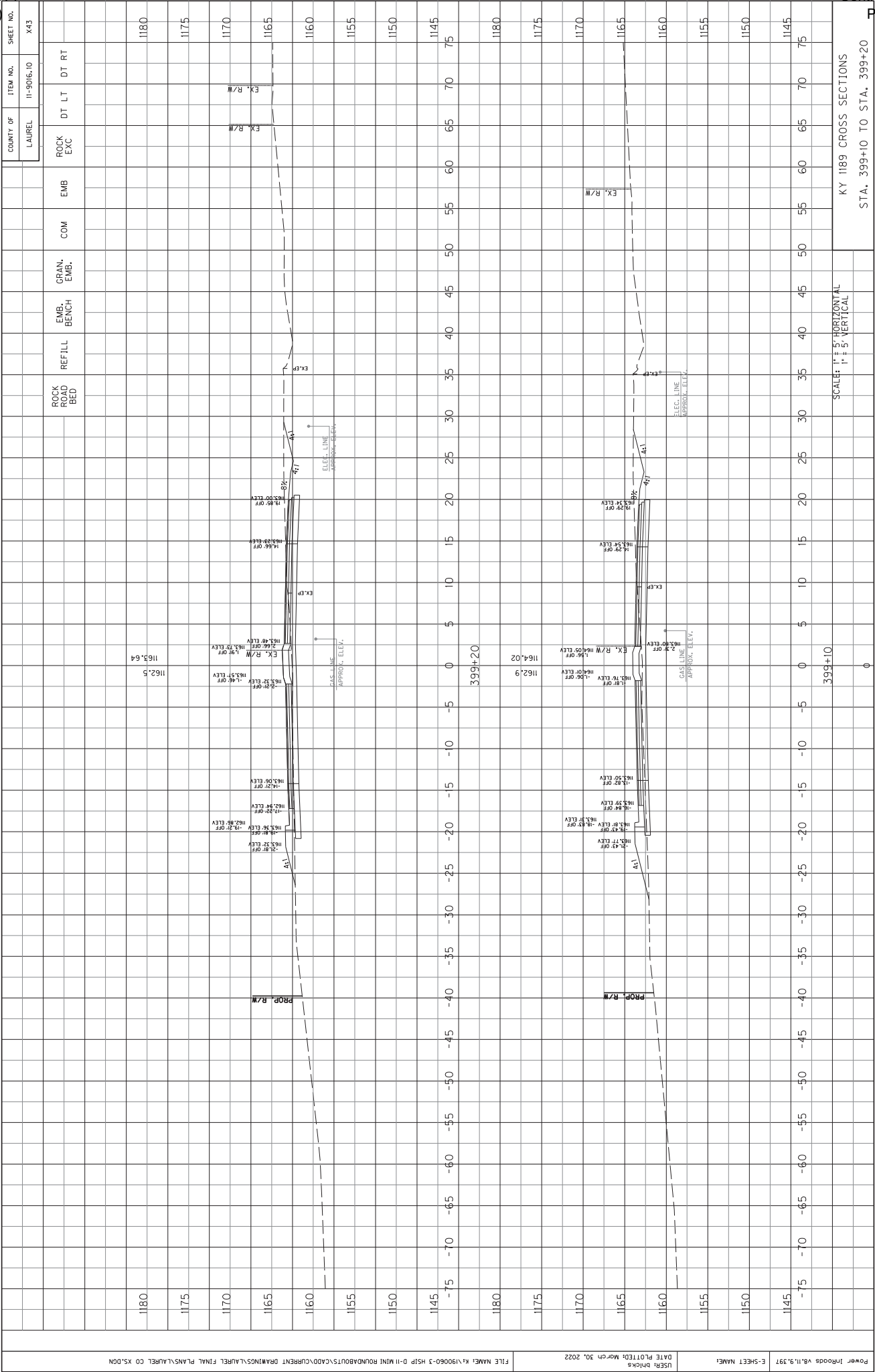
LAUREL COUNTY
ITEM NO. 11-9016.10
SHEET NO. X42

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

399+00

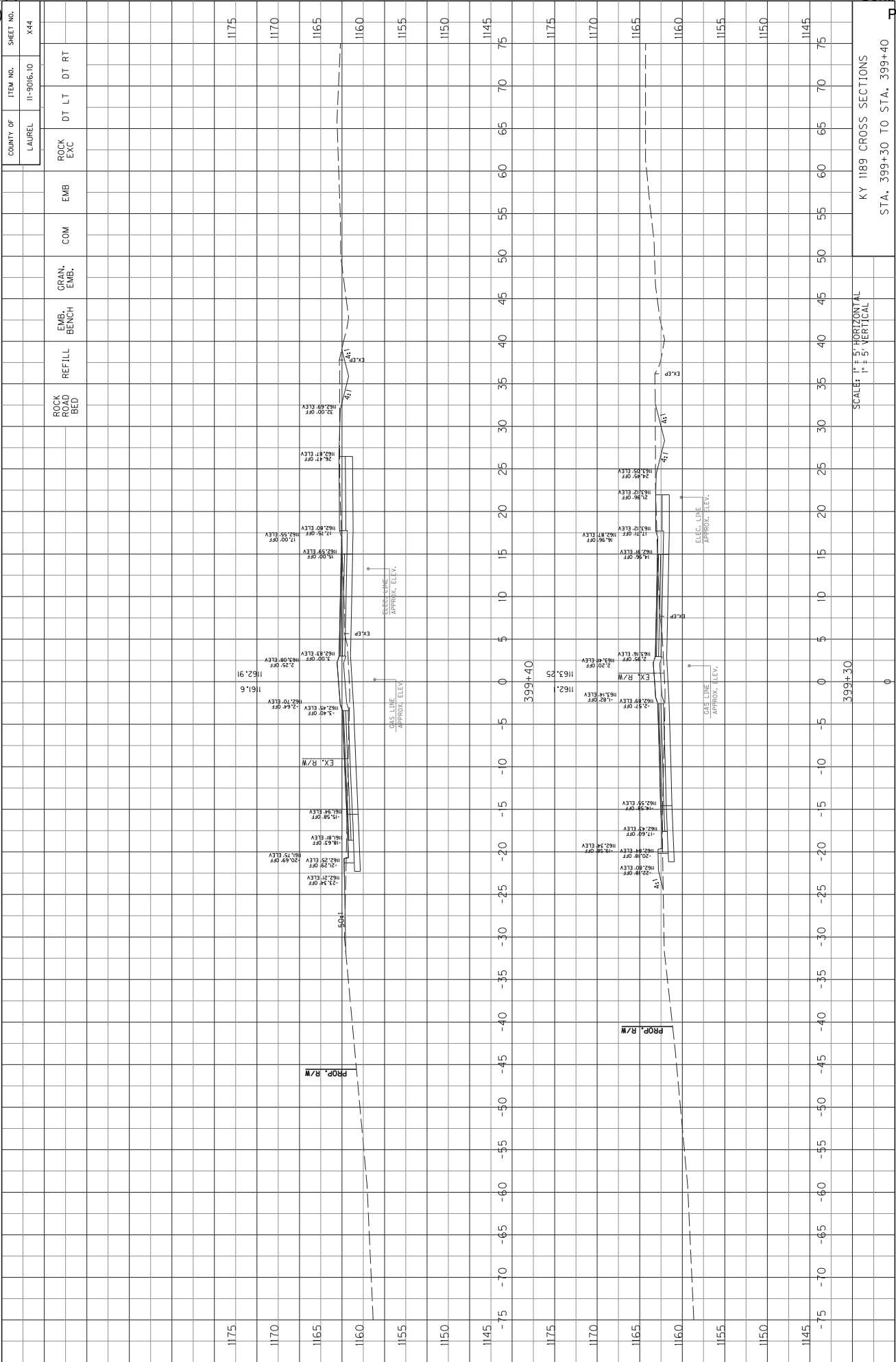
398+00

KY 1189 CROSS SECTIONS
STA. 398+90 TO STA. 399+00



KY 1189 CROSS SECTIONS
STA. 399+10 TO STA. 399+20

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL



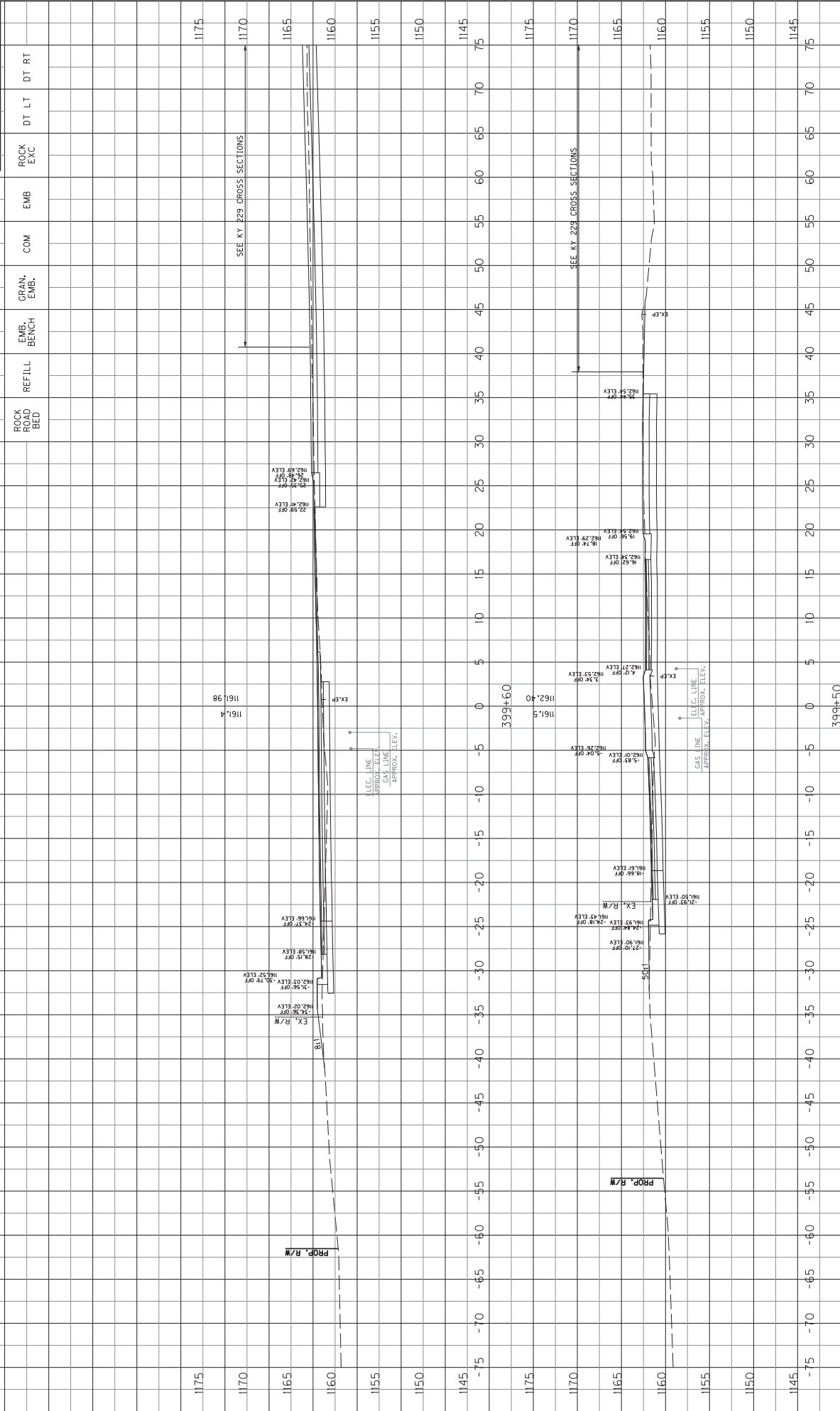
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X44

STATION	ROCK HEAD BED	REFILL	EMB. BENCH	GRAN. EMB.	COM	EMB	ROCK EXC	DT LT	DT RT
1175									
1170									
1165									
1160									
1155									
1150									
1145									
-75									
-70									
-65									
-60									
-55									
-50									
-45									
-40									
-35									
-30									
-25									
-20									
-15									
-10									
-5									
0									
5									
10									
15									
20									
25									
30									
35									
40									
45									
50									
55									
60									
65									
70									
75									

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 1189 CROSS SECTIONS
STA. 399+30 TO STA. 399+40

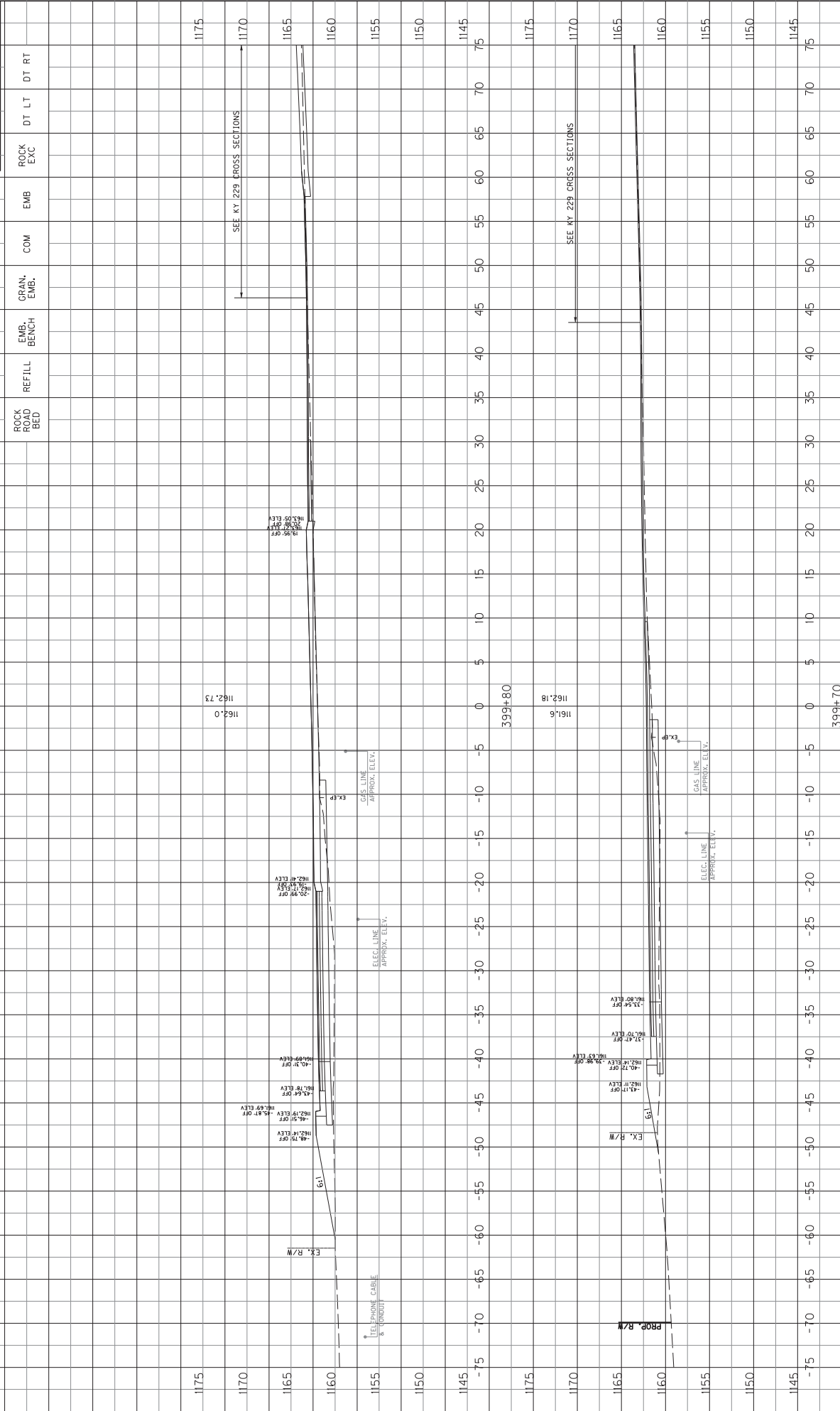
COUNT OF LAUREL	ITEM NO. 11-9016.10	SHEET NO. X45



SCALE: 1" = 5' HORIZONTAL
1" = 1.5' VERTICAL

KY 1189 CROSS SECTIONS
STA. 399+50 TO STA. 399+60

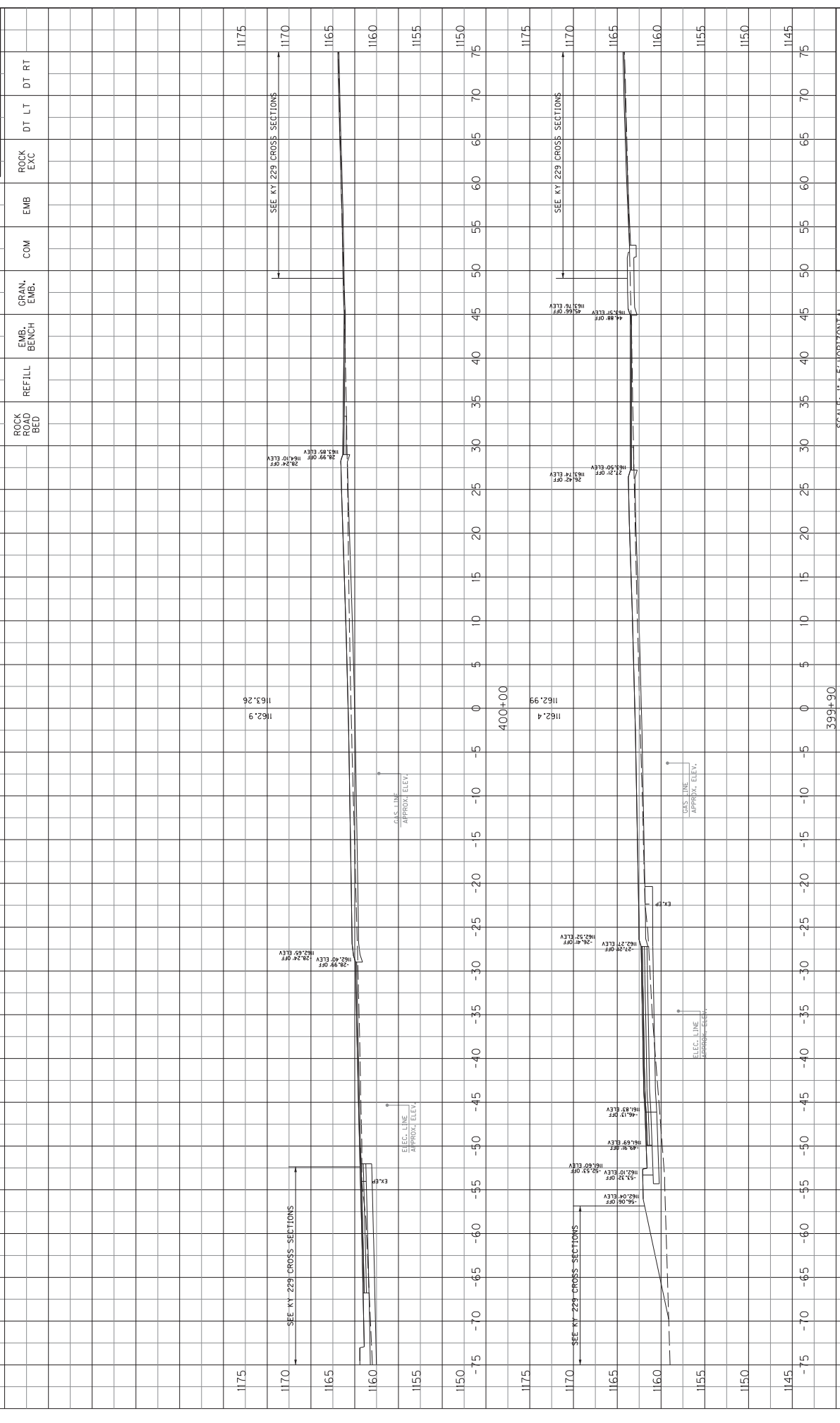
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X46



SCALE: 1:1.5 HORIZONTAL
1:1.5 VERTICAL

KY 1189 CROSS SECTIONS
STA. 399+70 TO STA. 399+80

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X47

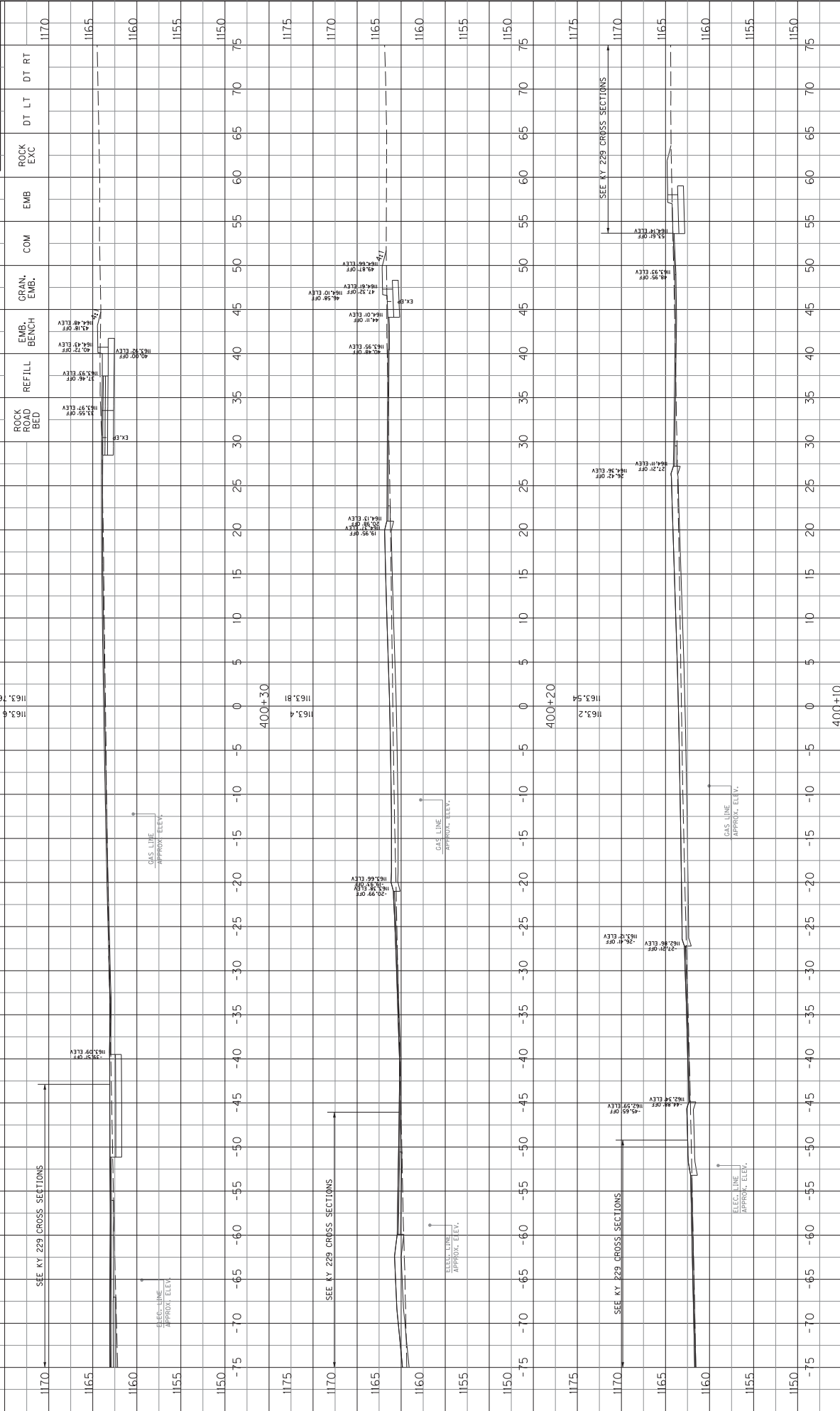


ROCK PAD BED	REFILL	EMB. BENCH	GRAN. EMB.	COM	EMB	ROCK EXC	DT LT	DT RT

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

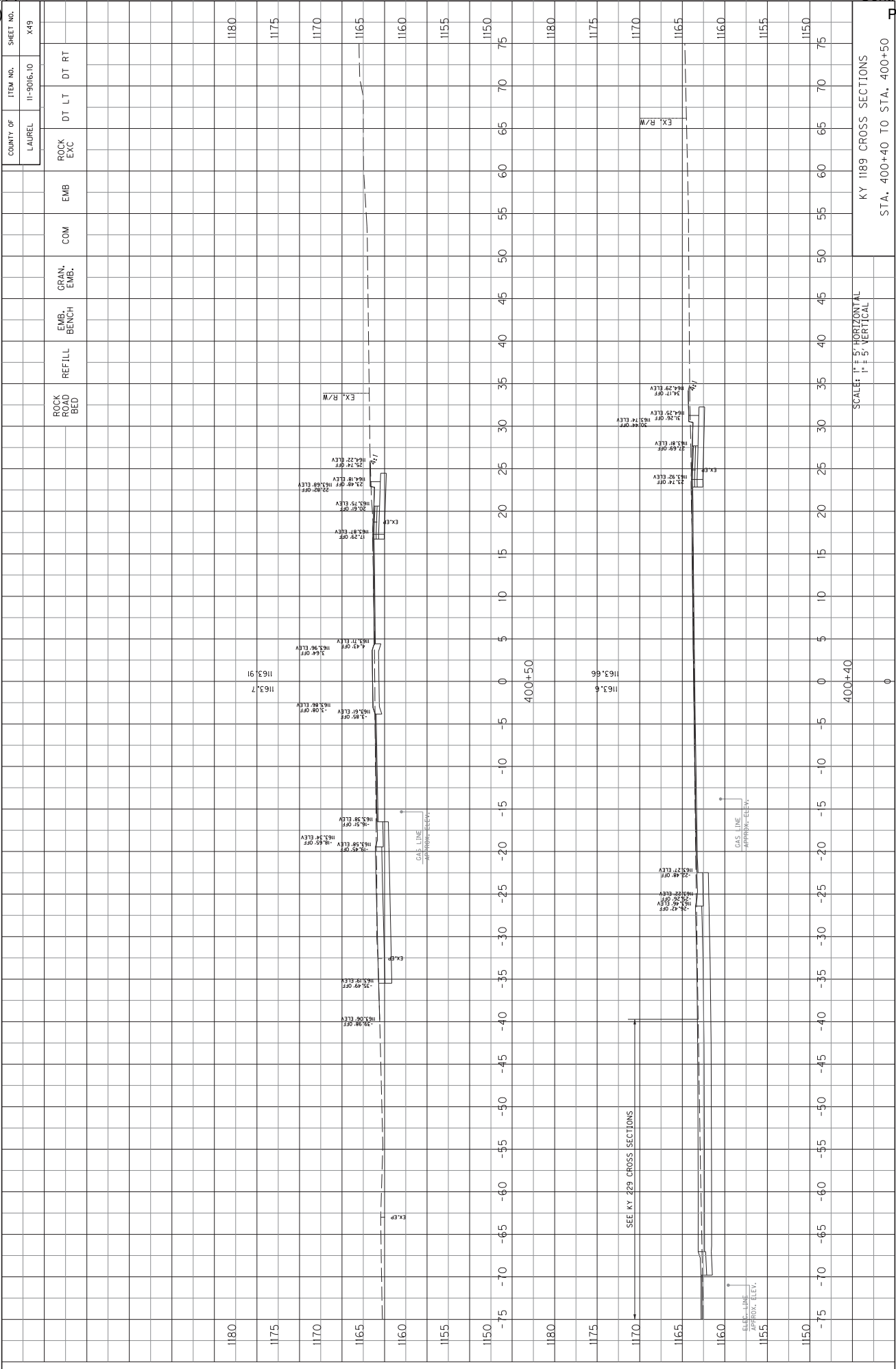
KY 1189 CROSS SECTIONS
STA. 399+90 TO STA. 400+00

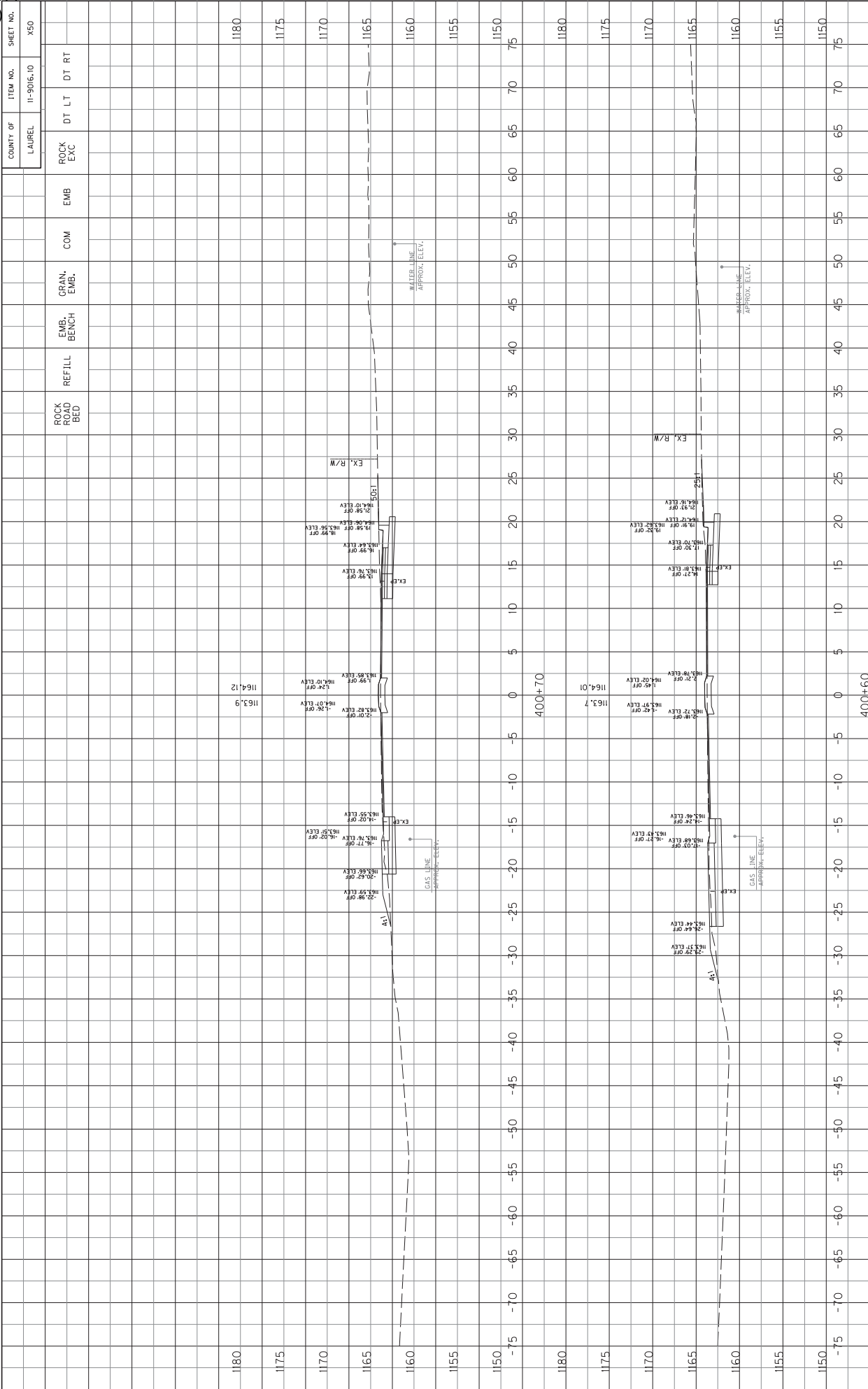
COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	148



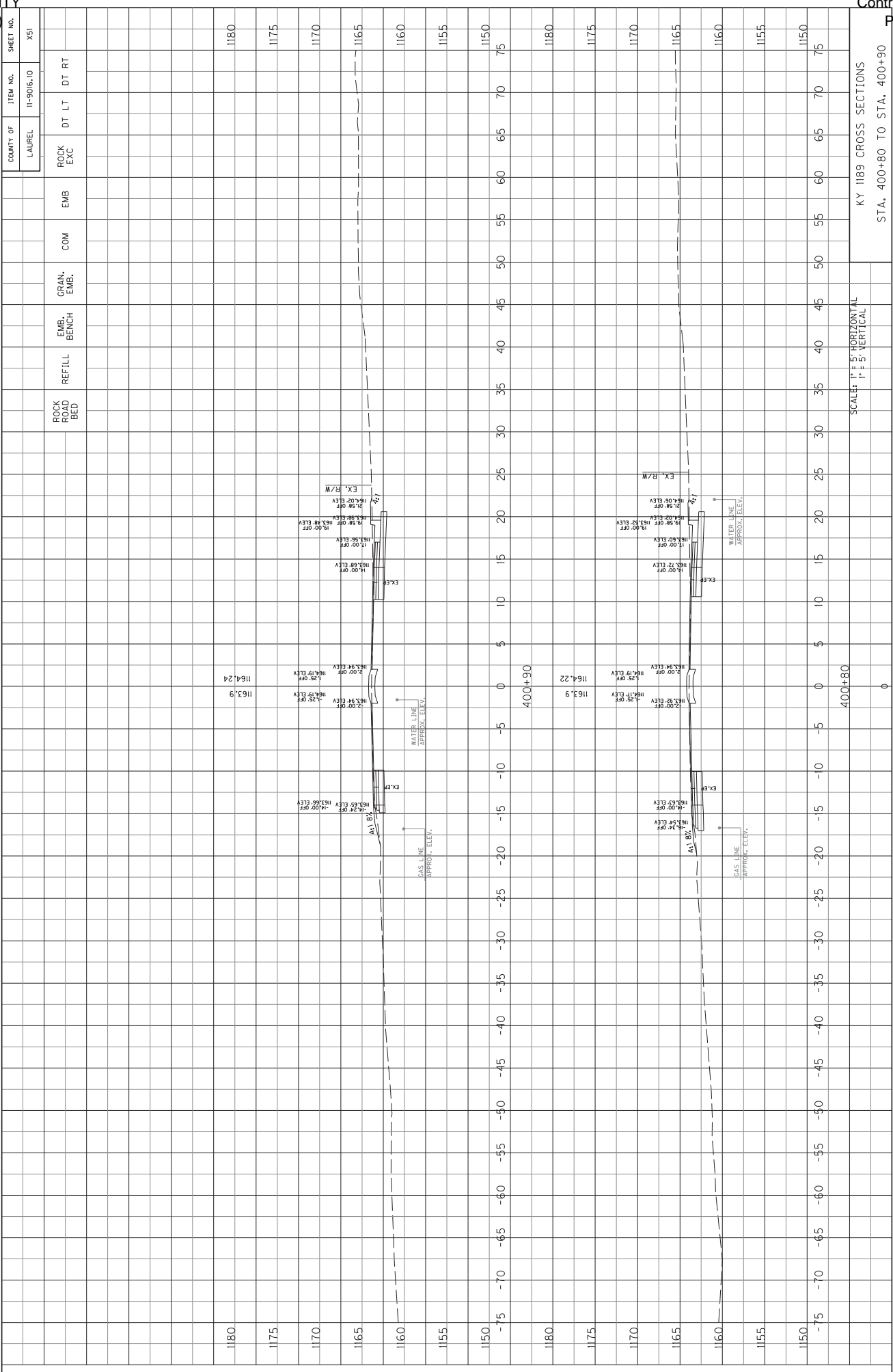
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 1189 CROSS SECTIONS
STA. 400+10 TO STA. 400+30



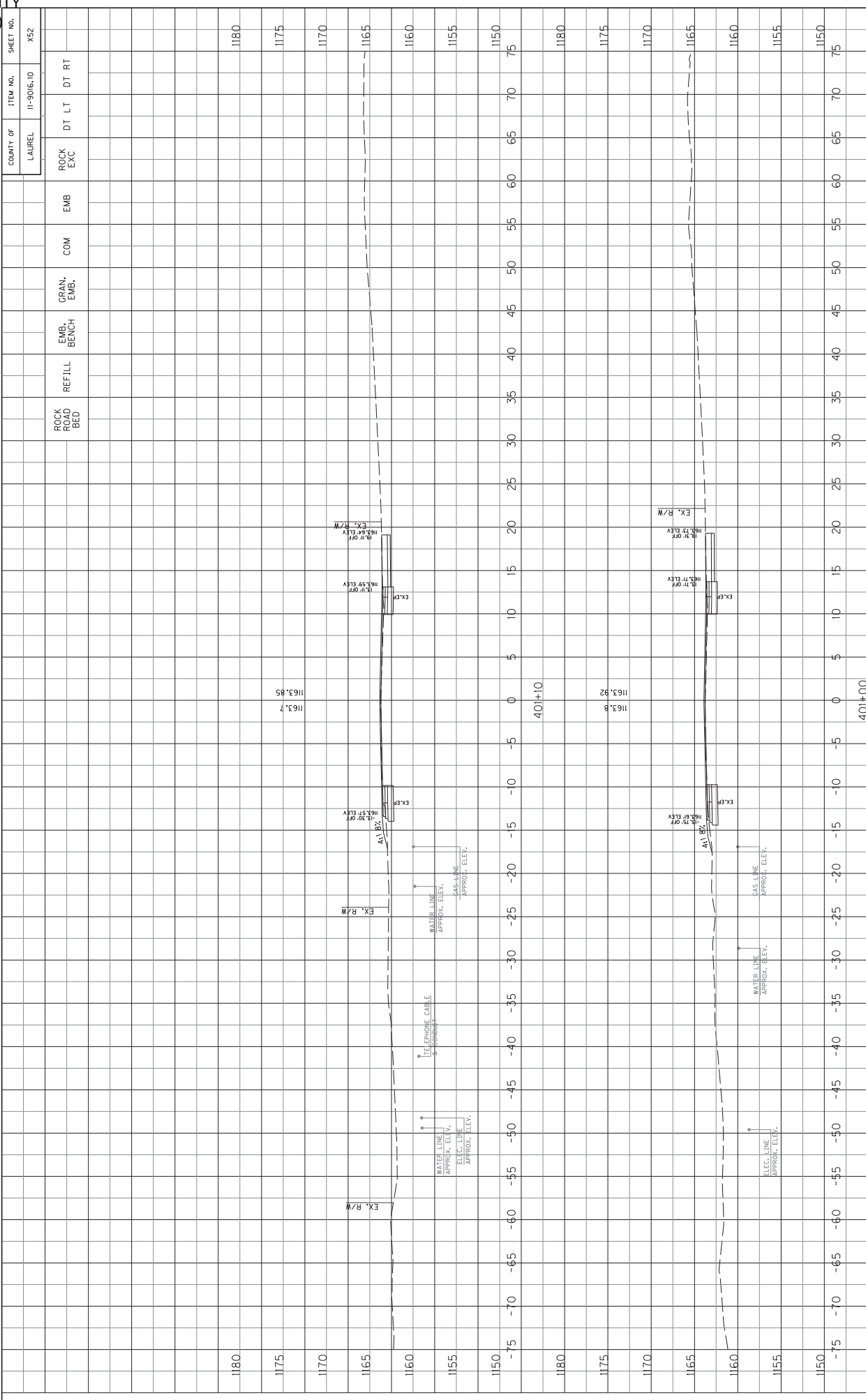


KY 1189 CROSS SECTIONS
STA. 400+60 TO STA. 400+70



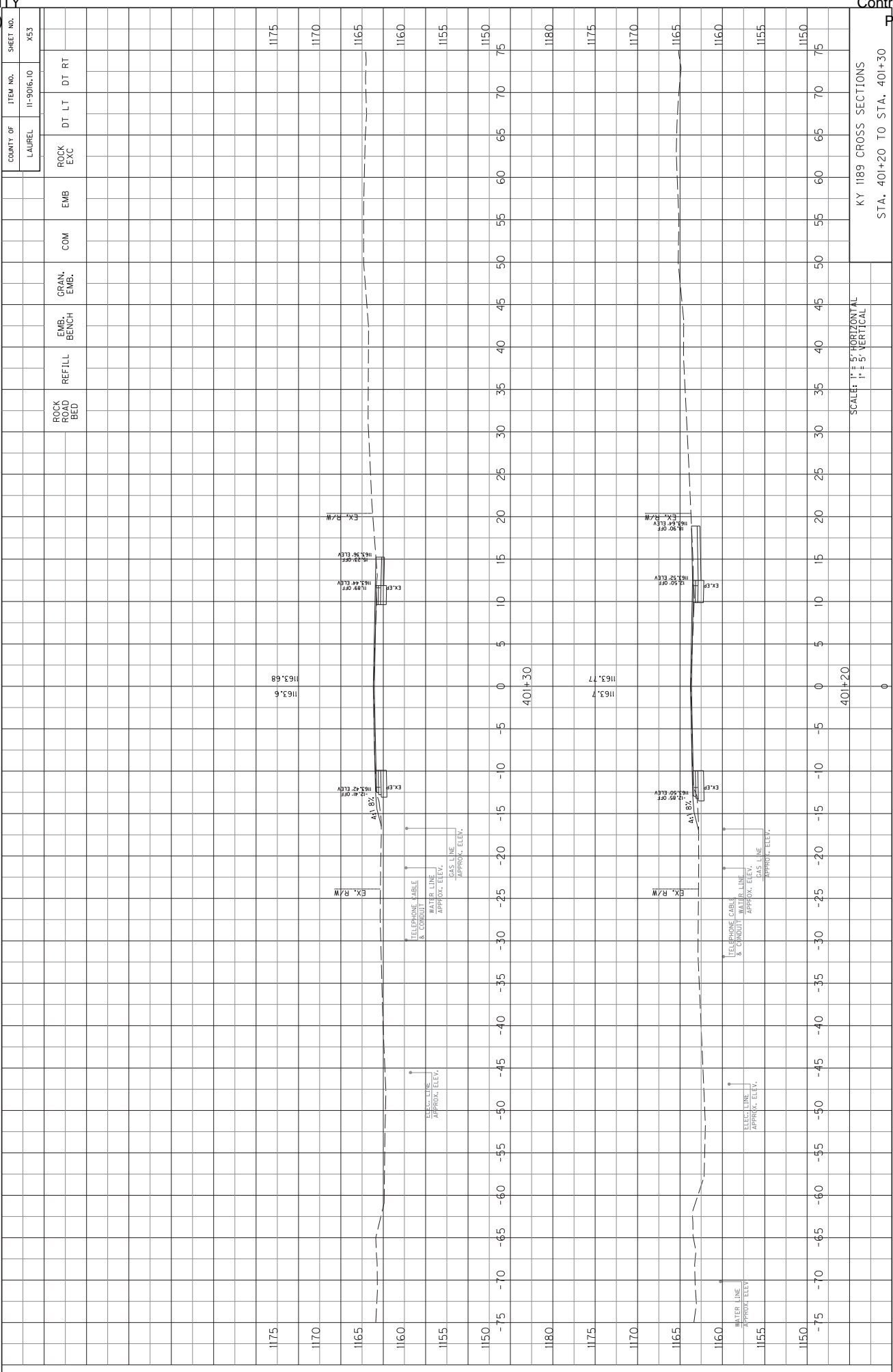
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 1189 CROSS SECTIONS
STA. 400+80 TO STA. 400+90

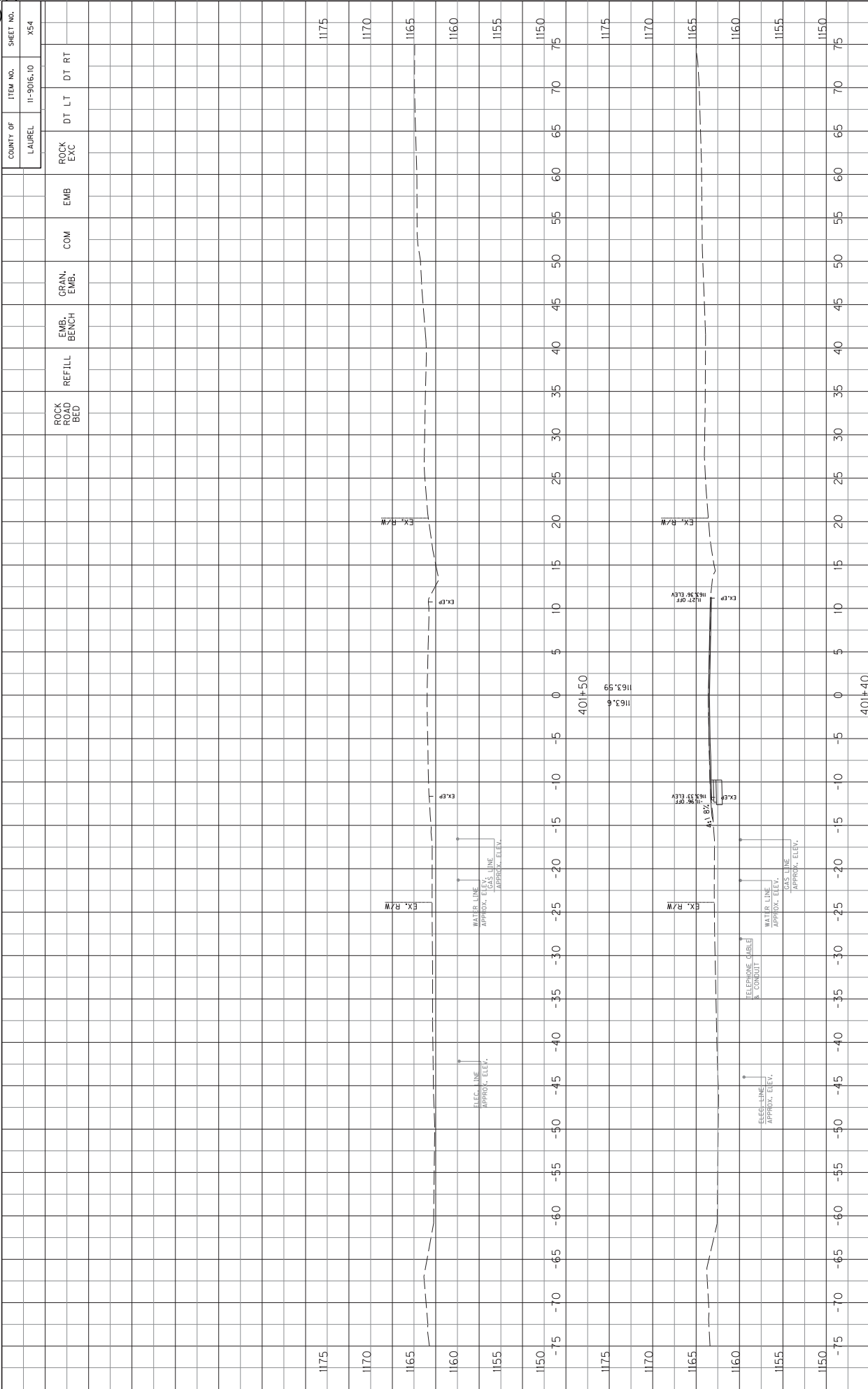


SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

KY 1189 CROSS SECTIONS
STA. 40+00 TO STA. 40+10



KY 1189 CROSS SECTIONS
STA. 401+20 TO STA. 401+30



COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	X54

KY 1189 CROSS SECTIONS
STA. 401+40 TO STA. 401+60

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	11

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPLICING

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

ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

ADD SENTENCE TO SECTION 834.10: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 834

SUBSECTION: 834.15.03 TRANSFORMER BASES.
REMOVE: REMOVE SENTENCE; CONSTRUCT THE DOOR OF A HIGH DENSITY POLYETHYLENE MATERIAL IN COLOR THAT MATCHES THE BASE.
REVISION: REPLACE THE FOLLOWING SENTENCE WITH THE FOLLOWING:
 CONSTRUCT THE DOOR OF AN ALUMINUM MATERIAL IN A COLOR THAT MATCHES THE BASE. THE DOOR SHOULD HAVE A THEFT DETERRENT DEVICE THAT IS EQUAL TO THE LOCKDOWN LIGHTLOCK DOOR ASSEMBLY. THE DOOR LOCK WILL HAVE A LOCKING DEVICE WITH A KYTC CUSTOM KEY THAT WILL BE SENT TO CENTRAL OFFICE TRAFFIC OPERATIONS FROM THE MANUFACTURER AND BE ISSUED TO THE CONTRACTOR FOR THE INSTALLATION OF THE OPERATIONS. THE DOOR SHALL BE RETURNED TO CENTRAL OFFICE TRAFFIC OPERATIONS AFTER THE DEVICE OF THE CONTRACTOR IS MET AT CRAFT PLACES. THE STICKER SHALL BE MET AT CRAFT PLACES WITH A .007 CENTER TOP OF EACH DOOR. THE STICKER SHALL BE POLYCARBONATE MATERIAL AND WITH MESH PRESSURE SENSITIVE ADHESIVE THICKNESS. WITH UV WHITE POLYCARBONATE MATERIAL AND WITH MESH PRESSURE SENSITIVE ADHESIVE. THE STICKER SHALL HAVE TWO COLORS OF BLACK AND CUSTOM COLOR ORANGE. THE WORDING FOR THE ARC FLASH STICKER SHALL BE THE FOLLOWING: "WARNING ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFPA 70E."

SECTION: 834.15 LIGHTING POLES.
REVISION: ADD THE FOLLOWING TO THE FIRST PARAGRAPH:
 THE CABINET WILL WAIVE THE REQUIREMENT STATED IN THE FIRST SENTENCE OF SECTION 5.14.6.2 - REINFORCED HOLES AND CUTOFF FOR HIGH MAST POLES (ONLY).

SECTION: 834.33 WARNING TAPE.
REVISION: REPLACE FIRST SENTENCE WITH THE FOLLOWING:
 PROVIDE DETECTABLE TYPE TAPE THAT IS 6 INCHES WIDE AND 7.0 MILS (NOMINAL) THICK.

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
2	EACH	4700	POLE 30' MTG HT
2	EACH	4721	BRACKET 6'
2	EACH	4740	POLE BASE
2	EACH	4750	TRANSFORMER BASE
1	EACH	4761	LIGHTING CONTROL EQUIPMENT
4	EACH	4780	FUSED CONNECTOR KIT
160	LIN FT	4795	CONDUIT 2 INCH
20	LIN FT	4820	TRENCHING AND BACKFILLING
240	LIN FT	4832	WIRE-NO. 12
3	EACH	2039INS835	ELECTRICAL JUNCTION BOX TYPE A
240	LIN FT	21543EN	BORE AND JACK CONDUIT
2	EACH	24589ED	LED LUMINAIRE
20	LIN FT	24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80
780	LIN FT	23778EC	WIRE NO. 10

DESIGNED BY: CHARLIE #
 DATE SUBMITTED: 3/31/2022

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
 COUNTY OF
LAUREL

PROJECT NUMBER:

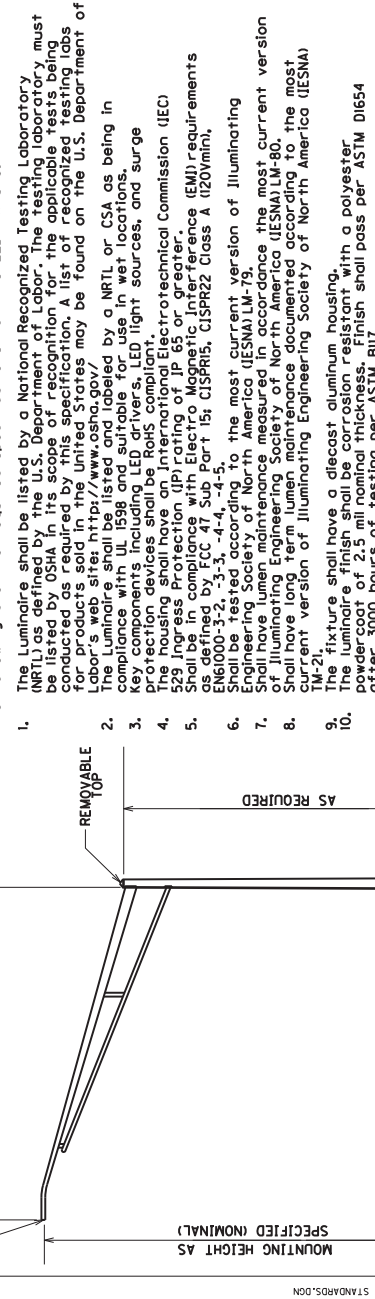
ROADWAY LIGHTING ESTIMATES OF QUANTITIES

COUNTY OF LAUREL ITEM NO. 11-9006.00 SHEET NO. 12

LED Luminaire Specifications

The following are the required specifications for the LED Fixture:

1. The Luminaire shall be listed by a National Recognized Testing Laboratory (NRTL) as defined by the U.S. Department of Labor, the testing laboratory must be listed in OSHA 1910.133(b)(3) and the applicable testing laboratory must be conducted as required by this specification. A list of recognized testing labs for products sold in the United States may be found on the U.S. Department of Labor's web site: <http://www.osha.gov/>
2. The Luminaire shall be listed and labeled by a NRTL or CSA as being in compliance with UL 1598 and suitable for use in wet locations.
3. Protection devices shall be, for all components, technical Commission (IEC) 529 ingress Protection (IP rating of IP 65 or greater).
4. Shall be in compliance with Electro Magnetic Interference (EMI) requirements as defined by FCC 47 Sub Part 15; CISPR15, CISPR22 Class A (120Vmin), EN61000-3-2, -3, -4, -4-4, -5.
5. Shall be tested according to the most current version of Illuminating Engineering Society of North America (IESNA) LM-79.
6. Shall have lumen maintenance measured in accordance with IESNA 80.
7. Shall have long term lumen maintenance documented according to the most current version of Illuminating Engineering Society of North America (IESNA) TM-21.
8. The fixture shall have a diecast aluminum housing.
9. The luminaire finish shall be corrosion resistant with a polyester powder-coat of 2.5 mil nominal thickness. Finish shall pass per ASTM D1654 after 3000 hours of testing per ASTM B117.
10. The luminaire shall be constructed of stainless steel, zinc or steel with zinc alloy electroplate and chromate top coat.
11. The luminaire shall be easy to open when properly mounted and shall have readily accessible internal parts. Access to all internal parts requiring replacement shall not require tools (i.e., "tool-less entry").
12. The luminaire shall have a vibration rating of 3G per the American National Standard (ANSI) IEEE C136.31, Table 2, Roadway Lighting Equipment - Luminaire Standard.
13. The luminaire shall be designed to allow water shedding.
14. The luminaire shall have a passive cooling method shall be employed to manage thermal output of LED light engine and power supply.
15. The luminaire shall have a label per ANSI C136.22 that states operating voltage and current range. The label must be clearly visible on the inside of the housing.
16. The luminaire shall fully operate in a temperature range of -40 degrees C (-40 degrees F).
17. The luminaire shall have an integral power supply (electronic driver). The power supply shall not have a manual, field-adjustable setting for current output.
18. The luminaire shall have a power supply (electronic driver) that will operate on a 480 volt single phase at 60 hertz.
19. The luminaire shall have a power supply (electronic driver) that has a power factor of .90 or greater at full load.
20. The luminaire shall have a power supply (electronic driver) that has total harmonic distortion of 20% or less at full load.
21. The luminaire shall have power supply (electronic driver) output ripple of less than 10%.
22. The luminaire shall have power supply (electronic driver) with a rated life of 100,000 hours with a luminaire operated at an ambient temperature of 25°C (77°F).
23. The luminaire shall have an isolated power supply (electronic driver) that has thermal overload protection.
24. The luminaire shall have a power supply (electronic driver) that is self-limited short circuit protected and over load protected.
25. The luminaire shall not use any active thermal cutback, such as in order to achieve a higher thermal performance.
26. The luminaire shall have a power supply (electronic driver) that is terminated in a quick disconnect wire harness for easy maintenance. Wire nut termination is not acceptable.
27. The luminaire shall have a terminal block for terminating wiring to the luminaire. The terminal block shall be a 3 station, tunnel lug terminal board that will accommodate #6 thru #18 AWG pole wire.
28. Fixture shall have a surge protection that meets 20KV/10KA per ANSI/IEEE C62.41.
29. The luminaire shall have life rating on all electrical components of 70,000 hours of operation at full lumen output at 25 degrees C.
30. All LED components shall be rated for operation in a luminaire at 25 degrees C (77 degrees F) at 100,000 hours.
31. Electrical components shall be protected per ANSI/IEEE standard C62.41, for Class C applications.
32. The LED shall fully operate in a temperature range -40 degrees C to 40 degrees C (-40 degrees F to 104 degrees F).
33. The LED shall have no more than a 15% optical intensity of initial delivery lumens due to thermal output after 100,000 hours of operation.
34. The LED shall have a rated life of 100,000 hours when operated at 25°C (77°F).
35. The LED shall have a minimum Luminaire efficacy of 120 lumens/watt.



39. The Correlated Color Temperature (CCT) shall be 4000K with a tolerance of ±250K, white that conforms to LM-79. The Correlated Color Temperature (CCT) shall be 5000K with a variance of 250K, white, that conforms to LM-79 (HIGH MAST ONLY).
40. The minimum color rendering index (CRI) shall not be less than 70.
41. The optics shall have a completely sealed optical system.
42. The optical system shall have a (IEC) IP rating of 66 or greater.
43. IESNA photometric engineering Society of North America (IESNA) photometric report shall not exceed 0.1.
44. The Light Loss Factor (LLF) shall be calculated for each fixture as follows:
LLF = LLD x LDD
Lamp Lumen Depreciation Factor (LLD) shall be the specified percentage of lumen maintenance at 25°C (77°F) from the TM-21 report. This LLD should be 70.000 hours to LM -80 and TM -21 reports. This report shall be submitted for verification.
45. Luminaire Dirt Depreciation (LDD) = .9
The TM-21 Report must show the drive current used for the submitted luminaire. The report can show a larger drive current to represent a worst case scenario.
46. The Lumen Maintenance Life L_m from the TM-21 Report must not be below 80% of 70,000 hours at 25°C (77°F).
47. The manufacturer shall provide certified test laboratories IES photometrics which verify light levels. Product submittal shall be accompanied by IES TM-21 compliant test reports from a CALIPER qualified or NVLAP accredited testing laboratory for the specific model being submitted.
48. The luminaire shall be equipped with a shorting cap and a 7-pin photocontrol receptacle that meets ANSI 2013 standard C136.41
49. The luminaire shall have an exterior label that identifies the fixture type as approved by the project engineer. This label shall be submitted and approved by the project engineer.
50. The luminaire shall have a QR code label that can be scanned and identify the model number and serial number for each individual fixture. This label shall be submitted and approved by the project engineer.

DESIGN CRITERIA FOR LED LUMINAIRES IN ROUNDABOUT

CENTER AREA OF ROUNDABOUT CONTAINED WITHIN THE STOPBARS/YIELD INDICATIONS ILLUMINANCE:
AVERAGE: NOT LESS THAN 1 FOOTCANDLES AND NOT MORE THAN 1.12 FOOTCANDLES
MINIMUM: NOT LESS THAN .50 FOOTCANDLES AVERAGE/MINIMUM: NOT MORE THAN 2.25!

ALL POLE LOCATIONS, ARM LENGTHS, AND ORIENTATION OF LUMINAIRE (TO CURVE/ROAD) SHOULD BE MAINTAINED DUE TO UTILITIES/DRAINAGE/RIGHT-OF-WAY.

51. WARRANTY: The Manufacturer shall ensure that the LED Luminaires have a minimum standard warranty of 10 years for all parts, materials, paint finish, workmanship and labor. The warranty shall begin upon the date the luminaire is received. The warranty shall be transferable.
(1) Failure in luminaire LED, housing, wiring, connections, and drivers.
(2) More than 10 percent decrease in lumen output.
(3) Significant change in light output color.
Technical Support: During the warranty period, technical support shall be available for the manufacturer to provide technical support. This support shall be made available from factory certified personnel or factory certified installers at no additional charge to the Department.
MINIMUM REQUIRED SUBMITTALS:
Luminaire specification sheet.
LED driver specification sheet.
LM-79 Luminaire photometric report.
The report must submit LM-79 in-situ test data to confirm thermal operating temperatures of luminaire.
LM-80 Lumen maintenance report.
Backlight, Uplight, Glare (BUG) rating of the luminaire.
Written product warranty.
Certified test lab IES photometric reports, including IES electronic file, including intensity and chromaticity data, instructions for installation and maintenance.
52. **BREAKAWAY FUSE CONNECTOR KIT**
6 AMP/10 VDC CARTRIDGE FUSE
RECEPTACLE HOUSING
T-TYPE RUBBER INSULATOR
RECEPTACLE TERMINAL
RECEPTACLE TERMINAL (SCREW TYPE)
FUSE HOLDER
LOAD CABLE
LOAD TERMINAL (SCREW TYPE)
CONNECTOR SCREW
LINE CABLES
T-TYPE RUBBER INSULATOR
DETAILS OF TYPE HEB-JW-RYC CONNECTOR
TYPE HEB-JW-RYC CONNECTOR SHOWN
LINE SIDE ASSEMBLY
PREMOUNT POINT
LINE SIDE ASSEMBLY

LUMINAIRE DESIGN:
DRIVER: NOT TO EXCEED 700mA
TYPE IV DISTRIBUTION
LUMINAIRE WEIGHTS NOT EXCEED 90 POUNDS

LUMINAIRE DESIGNATION EXAMPLE

SPECIAL NOTE:
ALL LUMINAIRES SHALL HAVE THE NEMA LABEL INSTALL ON THE BOTTOM OF THE FIXTURE TO VERIFY THE WATTAGE. LABEL: B4

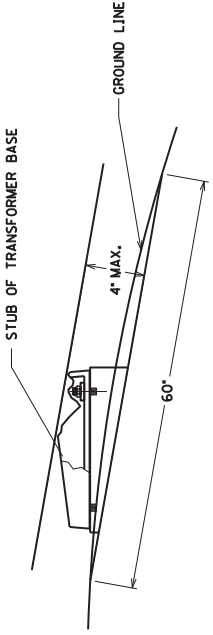
LUMINAIRE WATTAGE _____
LUMINAIRE NUMBER IN CIRCUIT _____
CIRCUIT NUMBER _____

NOTE:
ALL TYPE B LUMINAIRES ARE MOUNTED AT 30' LED LUMINAIRE

1/26/2022

FILE NAME: C:\PWORK\CHARLES.WEITZEL\02073987\ALL LIGHTING STANDARDS.DWG
USER: Charle.Weitzel
DATE PLOTTED: Mon 31, 2022
E-SHEET NAME: T022000L
Power InRoads 8/11, 9, 397

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	T3

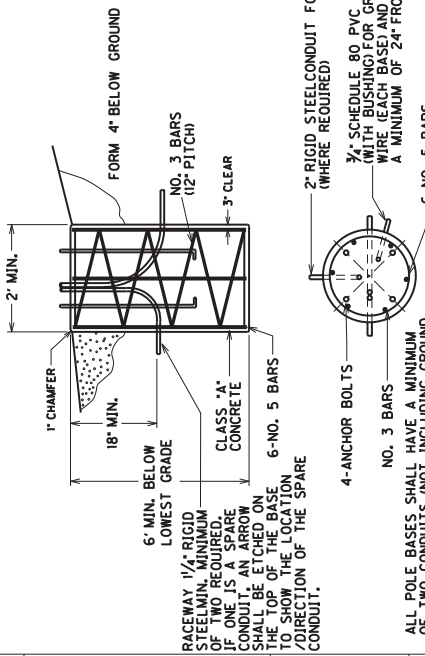


THE ANCHOR BOLTS AND CONDUITS SHALL NOT BE PROJECTED MORE THAN 4 INCHES ABOVE A GROUND LINE BETWEEN THE STRADDLING WHEELS OF A VEHICLE.

BREAKAWAY SUPPORT STUB HEIGHT MEASUREMENT

DUCTED CABLE INSTALLED THROUGH 3\"/>

IF DUCTED CABLE INSTALLED BETWEEN POLE BASES:
 INSTALL RIGID STEEL/DUCTED CABLE COUPLING. USE BONDUIT CONDUIT ADHESIVE TO ATTACH 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 RIGID STEEL CONDUIT TWO TIMES THE SIZE OF THE DUCT AND RUN THE DUCT INSIDE THE CONDUIT. THE BENDING RADIUS OF THE CONDUIT SHALL BE INCREASED TO ADHERE TO THE MANUFACTURER OF THE DUCT.

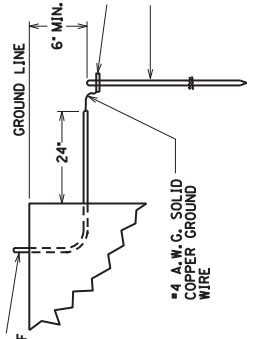


ALL POLE BASES SHALL HAVE A MINIMUM NO. 3 CONDUIT SPACING. ALL POLE BASES SHALL BE 180 DEGREE FROM THE CONDUIT FOR THE CONDUCTORS.

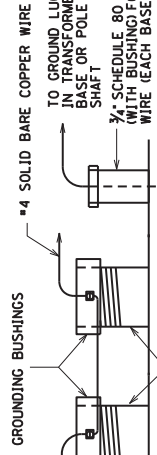
FOUNDATION DETAIL

1/30/2020

3/4\"/>



GROUNDING DETAIL

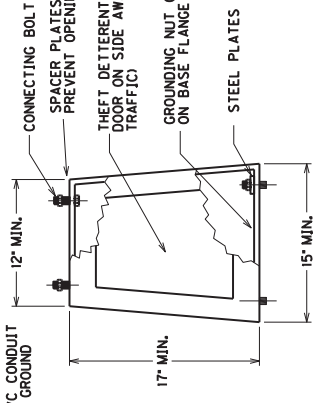


TYPICAL GROUNDING DETAIL

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 -4740-. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE POLE BASE.



CONCRETE BASES SHALL BE POURED LEVEL NO MORE THAN A 3/8\"/>

TYPICAL

CAST ALUMINUM TRANSFORMER BASE

NOTE:
 THE TRANSFORMER BASE DOOR SHALL HAVE A MINIMUM OF 1/2\"/>

SPECIAL NOTE FOR TRANSFORMER BASES:
 FURNISH AN ARC FLASH AND SHOCK HAZARD WARNING STICKER ON TRANSFORMER BASE WITH THE FOLLOWING INFORMATION:
 VOLTAGE CLASS 01
 LIMITED APPROACH BOUNDARY 42 IN
 RESTRICTED APPROACH BOUNDARY 12 IN
 SEE MPA 706 FOR ADDITIONAL PPE REQUIRED

TRANSFORMER BASE DETAIL

COUNTY OF
LAUREL

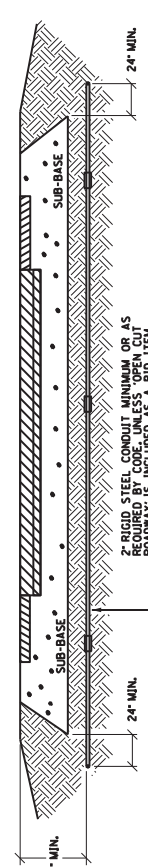
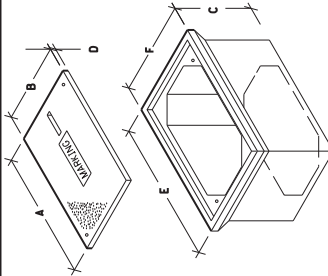
ITEM NO.
11-9016.10

SHEET NO.
14

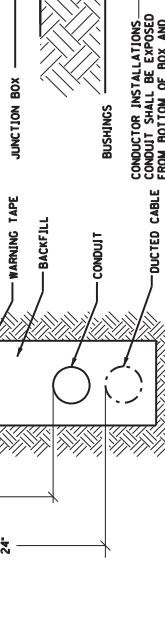
JUNCTION BOX DIMENSIONS (NOMINAL)

	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1 1/2"	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

* MINIMUM
NOTE: STACKABLE BOXES ARE PERMITTED
JUNCTION BOX

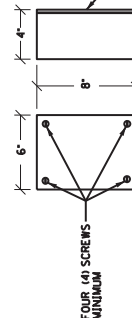


CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL

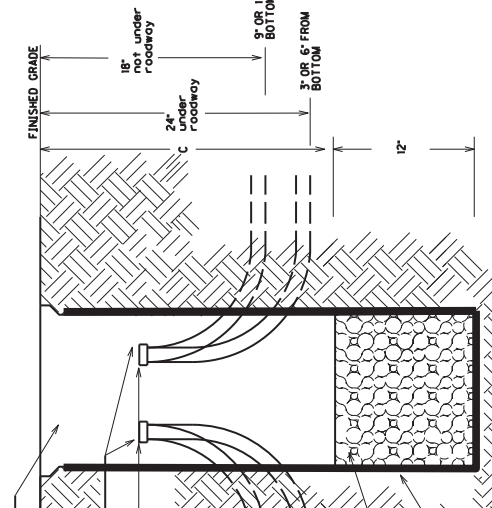
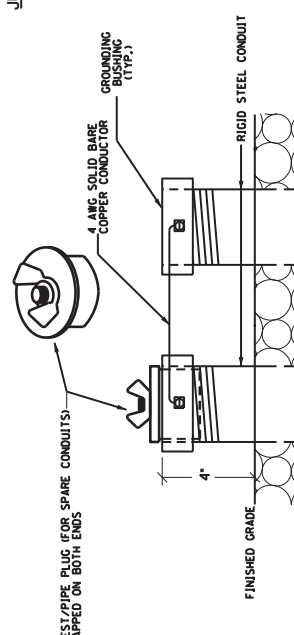


CONDUIT, DUCTED CABLE, AND WARNING TAPE TRENCH

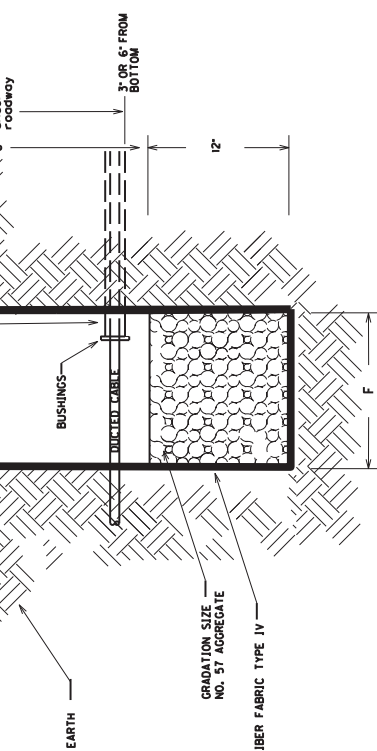
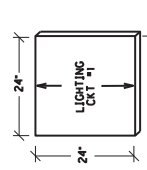
ABOVE GROUND BOX SHALL BE FABRICATED FROM MINIMUM 1/2\"/>



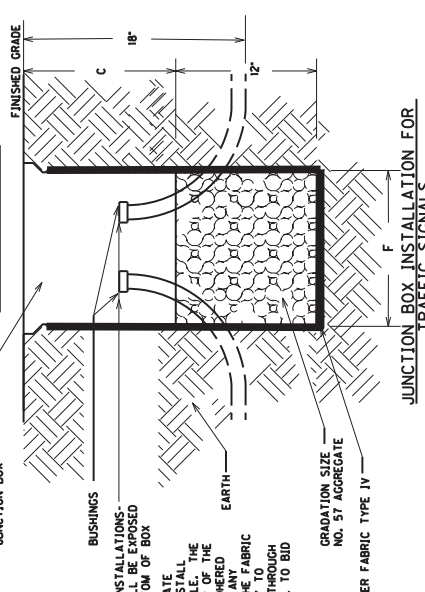
ABOVE GROUND BOX



JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING



JUNCTION BOX INSTALLATION FOR HIGHMAST LIGHTING



JUNCTION BOX INSTALLATION FOR TRAFFIC SIGNALS

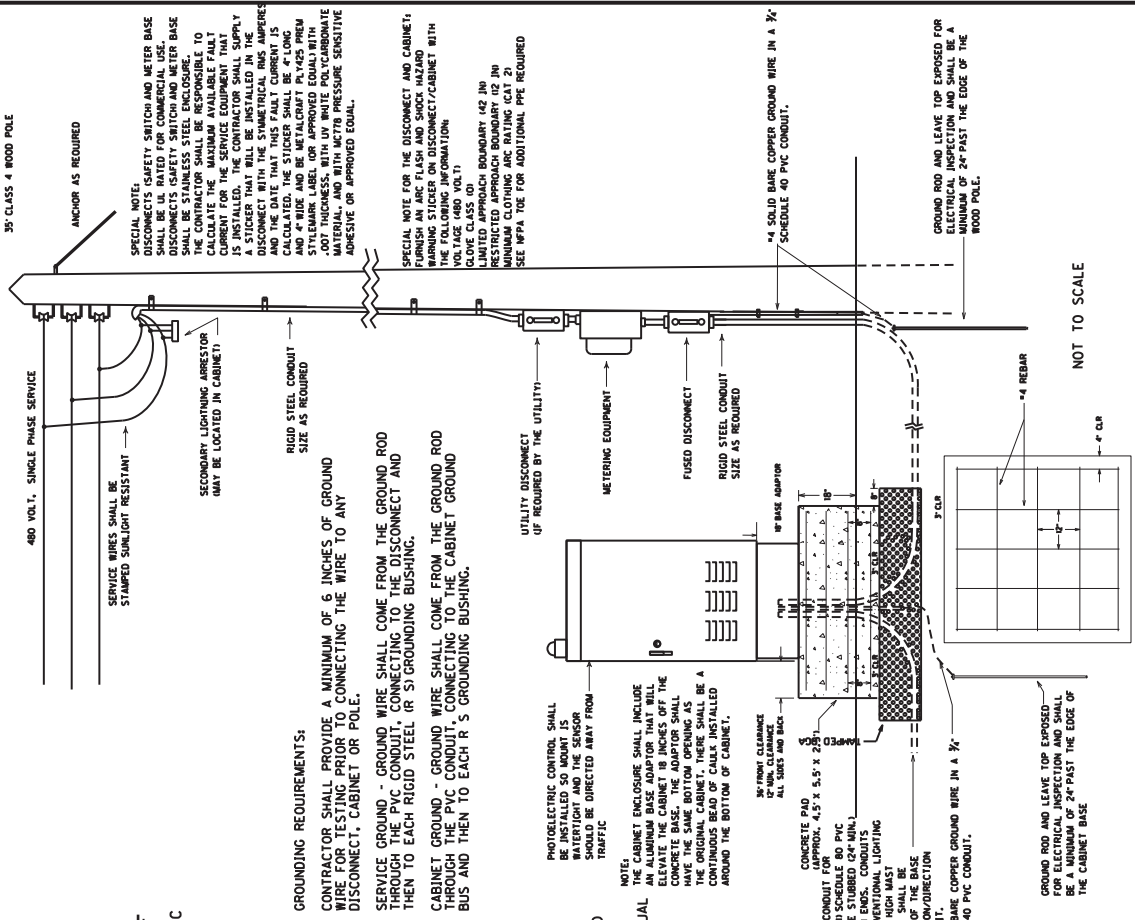
BEFORE THE INSTALLATION OF THE #57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL GEOTEXTILE FILTER FABRIC TYPE IV IN THE HOLE. THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY LOCATIONS WHERE CONDUITS ENTER THE BOX, THE FABRIC SHALL BE CUT ONLY AS MUCH AS NECESSARY TO ALLOW FOR PROTECTIVE CONDUIT THROUGH THE FABRIC. FABRIC SHALL BE INCIDENTAL TO BID ITEMS 481L, 20392NS835, OR 20392NS835S.

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

3/13/2017

TRAFFIC SIGNAL AND ROADWAY LIGHTING JUNCTION BOX AND CONDUIT DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016.10	15



39' CLASS 4 WOOD POLE

ANCHOR AS REQUIRED

SPECIAL NOTE: SAFETY SWITCH AND METER BASE SHALL BE 1/4" RATED FOR COMMERCIAL USE. DISCONNECTS (SAFETY SWITCH AND METER BASE) SHALL BE STAINLESS STEEL ENCLOSURE. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN THE NECESSARY PERMITS AND TO OBTAIN CURRENT FOR THE SERVICE EQUIPMENT THAT IS INSTALLED. THE CONTRACTOR SHALL SUPPLY A STICKER THAT WILL BE INSTALLED IN THE METER ENCLOSURE AND THE DATE THAT THIS FAULT CURRENT IS CALCULATED. THE STICKER SHALL BE 4" LONG AND 4" WIDE AND BE METALCRAFT PLYCES PREM AND 4" WIDE AND BE METALCRAFT PLYCES PREM MATERIAL AND WITH METR PRESSURE SENSITIVE ADHESIVE OR APPROVED EQUAL.

SPECIAL NOTE FOR THE DISCONNECT AND CABINET: WARNING STICKER ON DISCONNECT/CABINET WITH THE FOLLOWING INFORMATION:
LIMITED APPROACH BOUNDARY 42 IN
RESTRICTED APPROACH BOUNDARY 12 IN
MINIMUM CLOTHING ARC RATING CAT 2
SEE NFPA 70E FOR ADDITIONAL PPE REQUIRED

GROUNDING REQUIREMENTS:
CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND THROUGH THE PVC CONDUIT, CONNECTING THE WIRE TO ANY DISCONNECT, CABINET OR POLE.

GROUNDING: GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE DISCONNECT AND THEN TO EACH RIGID STEEL (R/S) GROUNDING BUSHING.

CABINET GROUND: GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE CABINET GROUND BUS AND THEN TO EACH R/S GROUNDING BUSHING.

PHOTOELECTRIC CONTROL: SHALL BE DIRECTED AWAY FROM METEORITIC AND THE SENSOR SHOULD BE DIRECTED AWAY FROM TRAFFIC.

NOTES: THE CABINET ENCLOSURE SHALL INCLUDE AN ALUMINUM BASE ADAPTOR THAT WILL ELEVATE THE CABINET 18 INCHES OFF THE CONCRETE. THE ADAPTOR SHALL BE IDENTICAL TO THE ORIGINAL CABINET. THERE SHALL BE A CONTINUOUS BEAD OF CAULK INSTALLED AROUND THE BOTTOM OF CABINET.

CONCRETE PAD: APPROX. 4.5' X 5.5' X 2.5" (1) SCHEDULE 80 PVC CONDUIT FOR EACH CIRCUIT PLUS 12" MINIMUM CLEARANCE FROM THE POLE AND CAPPED ON BOTH ENDS. CONDUITS SHALL BE 2" FOR CONVENTIONAL LIGHTING CIRCUITS AND 3" FOR HIGH MAST CIRCUITS. THE ADAPTOR SHALL BE CAPPED ON THE TOP OF THE BASE TO SHOW THE LOCATION/DIRECTION OF THE SPARE CONDUIT.

REBAR: 4" SOLID BARE COPPER GROUND WIRE IN A 2" SCHEDULE 40 PVC CONDUIT.

GROUND ROD AND LEAVE TOP EXPOSED FOR ELECTRICAL INSPECTION AND SHALL BE A MINIMUM OF 24" PAST THE EDGE OF THE WOOD POLE.

GROUND ROD AND LEAVE TOP EXPOSED FOR ELECTRICAL INSPECTION AND SHALL BE A MINIMUM OF 24" PAST THE EDGE OF THE CABINET BASE.

NOT TO SCALE

TYPICAL

BASE MOUNTED SERVICE DETAIL

COUNTY OF	ITEM NO.	SHEET NO.
LAUREL	11-9016-10	16

CONVENTIONAL LIGHTING:
ALL POLES SHALL HAVE A #12 AWG GREEN GROUND WIRE RUN FROM BOTTOM OF POLE TO THE LUMINAIRE FOR GROUNDING. ALL POLES SHALL HAVE A GREEN WIRE THE SAME SIZE AS THE CIRCUIT WIRE RUN FROM POLE TO POLE FOR GROUNDING. GROUNDING WIRES SHALL BE CONNECTED TO GROUNDING LUGS ON CONDUITS OR ON THE POLE/TRANSFORMER BASE.

POLE HEIGHTS, ARM LENGTHS AND SETBACKS ARE DENOTED AS STATED ON 'LUMINAIRE DESIGNATION EXAMPLE' ON LUMINAIRE/FUSE CONNECTOR DETAIL SHEET.

POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

GENERAL CONVENTIONAL NOTES:

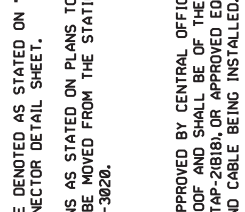
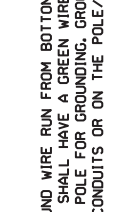
ALL SPLICES NOTED ON THIS PLAN SHALL BE APPROVED BY CENTRAL OFFICE TRAFFIC OPERATIONS. THESE SPLICES SHALL BE WATERPROOF AND SHALL BE OF THE CORRECT SIZE FOR THE WIRE USED AND SHALL BE RAYCHEM GTAP-2(B18), OR APPROVED EQUAL. ALL SPLICES SHALL BE INCIDENTAL TO THE WIRE AND CABLE BEING INSTALLED.

LUMINAIRES STATIONS/ COORDINATES WIRE SIZE

1-1-B-6	STA 200+47.5 OFF 31.7	3- #10 AWG
2-1-B-6	STA 195+44.2 OFF 28.2	3- #10 AWG

WIRING SCHEDULE

FROM	TO	WIRE SIZE	CONDUIT SIZE
CKT #1	CONTROLLER JB A1	3-#10 AWG	1.25" PVC
	JB A1	3-#10 AWG	2" RS
	JB A3	3-#10 AWG	1.25" PVC
	1-1	3-#10 AWG	1.25" PVC
CKT #2	CONTROLLER JB A1	3-#10 AWG	1.25" PVC
	JB A1	3-#10 AWG	2" RS
	JB A2	3-#10 AWG	1.25" PVC
	2-1	3-#10 AWG	1.25" PVC



INSTALL 1 RUN OF 2" RIGID STEEL CONDUIT FROM JB A1 TO JB A3.

SERVICE AREA NEW UTILITY POLE WITH 480 V, 1 PHASE SERVICE. BASE MOUNTED LIGHTING CONTROL CABINET.

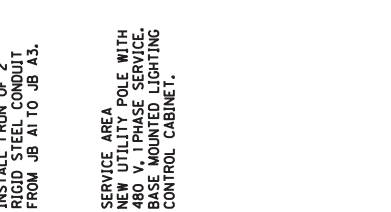
INSTALL 1 RUN OF 2" RIGID STEEL CONDUIT FROM JB A1 TO JB A2.

LEGEND

- BASE MOUNTED CABINET
- JUNCTION BOXES - TYPES A (AS DESIGNATED)
- 1/2" SCHEDULE 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)
- LUMINAIRE POLE
- NEW 35 FT. WOOD SERVICE POLE

SCALE: 1"=20'

KY 2401 & KY 2079
ROUNDABOUT LIGHTING



PART II
SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

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

SUPPLEMENTAL SPECIFICATIONS

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

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

SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

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

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

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

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

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

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

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

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

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

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

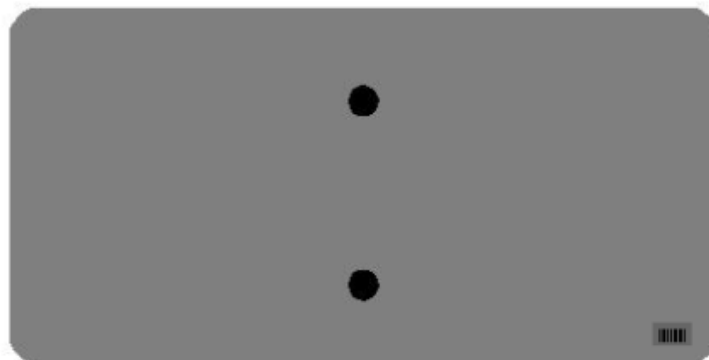
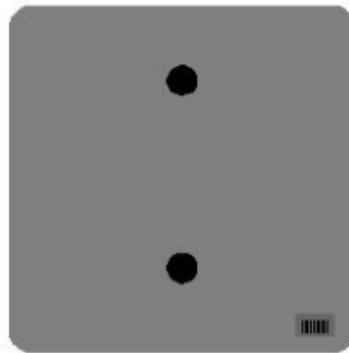
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24631EC	Barcode Sign Inventory	Each

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

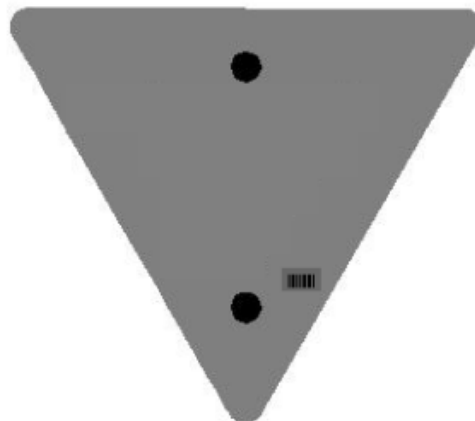
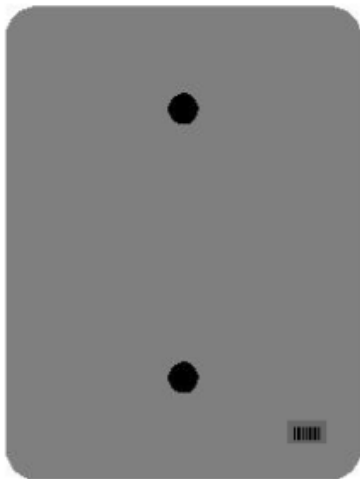
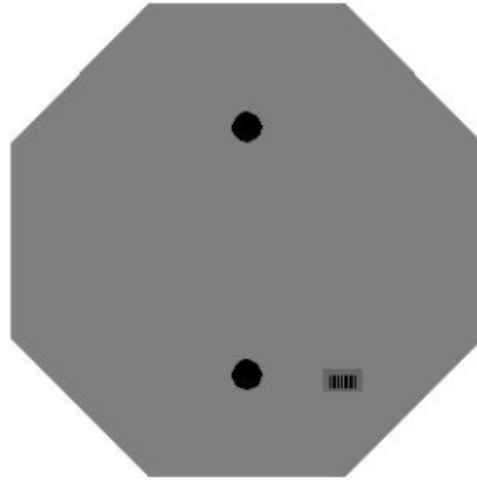
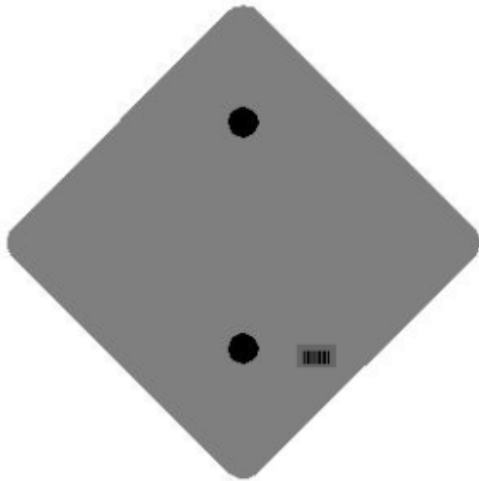
One Sign Post



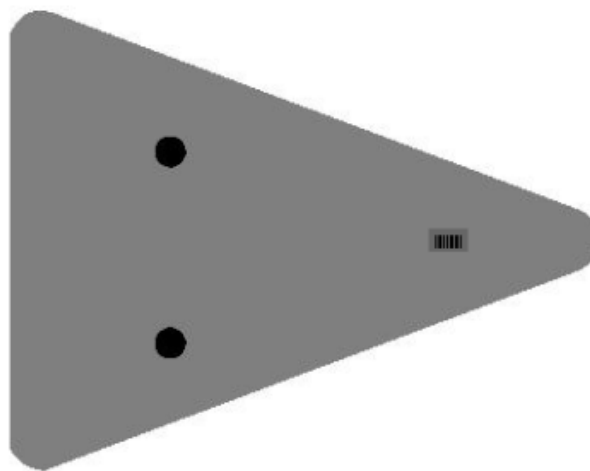
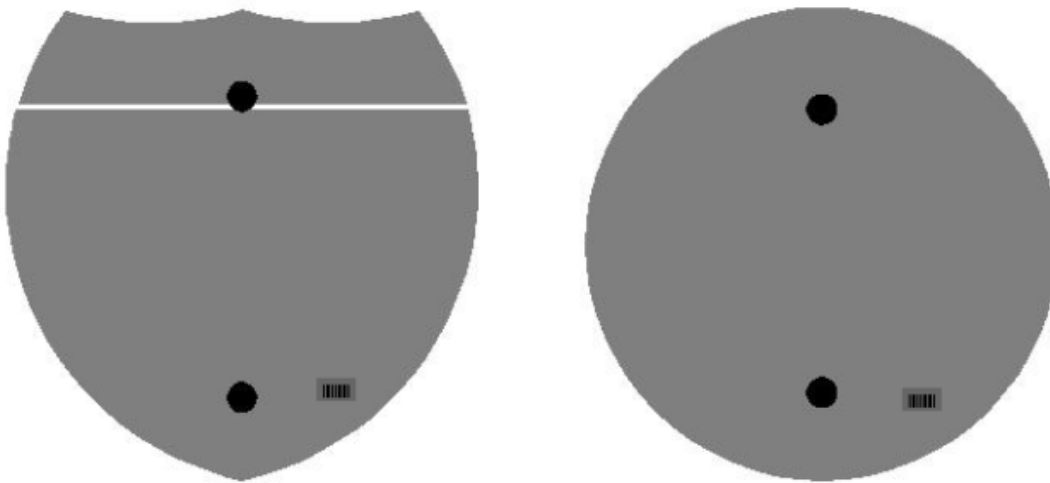
↑
2" Wide Post



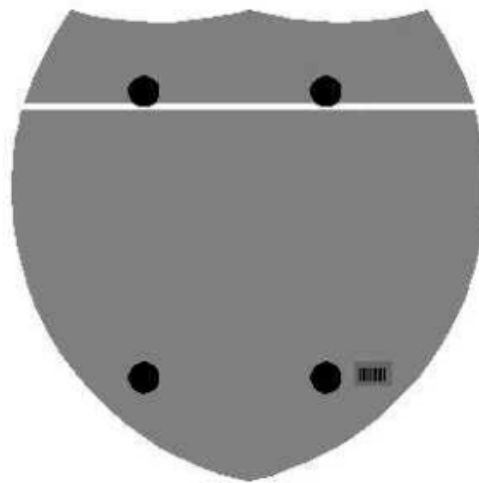
One Sign Post



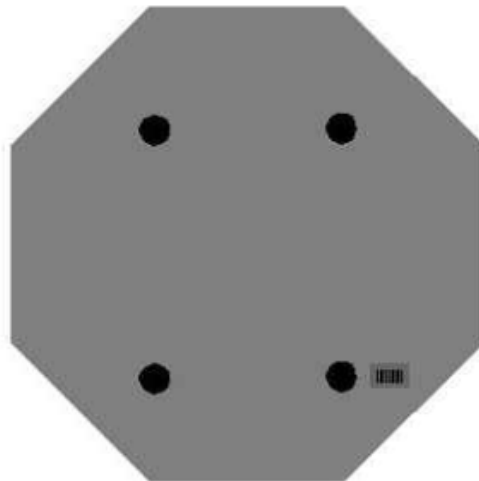
One Sign Post



Double Sign Post



Interstate
Shield

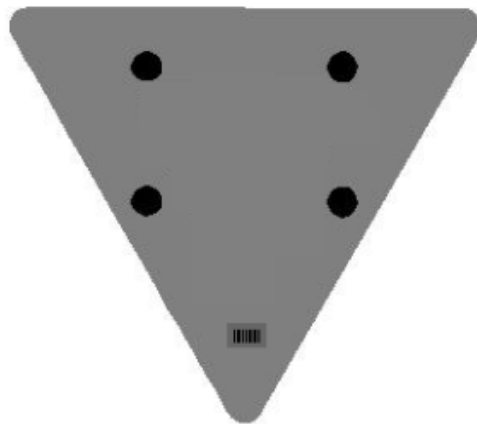


48" Stop

2 Post Signs



↑
2" Wide Post



2020 STANDARD DRAWINGS THAT APPLY

ROADWAY

~ DRAINAGE ~

MISCELLANEOUS DRAINAGE

TEMPORARY SILT FENCE.....	RDX-210-03
SILT TRAP - TYPE A	RDX-220-05
SILT TRAP - TYPE B.....	RDX-225-01
SILT TRAP - TYPE C.....	RDX-230-01

~ GENERAL ~

MISCELLANEOUS STANDARDS

RIGHT OF WAY MONUMENTS.....	RGX-005-06
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~ PAVEMENT ~

MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.

MOUNTABLE MEDIAN	RPM-011-06
CURB AND GUTTER, CURBS AND VALLEY GUTTER.....	RPM-100-11
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT.....	RPM-110-07
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK.....	RPM-150-08
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK.....	RPM-152-08

TRAFFIC

~ TEMPORARY ~

TRAFFIC CONTROL

LANE CLOSURE TWO-LANE HIGHWAY	TTC-100-05
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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

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.

ATTACHMENTS

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

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.

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).

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 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.

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.

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.

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.

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).

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.

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.

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, 1025 Capital Center Drive, Suite 104, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: May 23, 2022

"General Decision Number: KY20220107 02/25/2022

Superseded General Decision Number: KY20210107

State: Kentucky

Construction Type: Highway

Counties: Adair, Barren, Bell, Breathitt, Casey, Clay, Clinton, Cumberland, Estill, Floyd, Garrard, Green, Harlan, Hart, Jackson, Johnson, Knott, Knox, Laurel, Lawrence, Lee, Leslie, Letcher, Lincoln, Magoffin, Martin, McCreary, Menifee, Metcalfe, Monroe, Morgan, Owsley, Perry, Pike, Powell, Pulaski, Rockcastle, Russell, Taylor, Wayne, Whitley and Wolfe Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

<p>If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:</p>	<ul style="list-style-type: none"> . Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 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 2022.
<p>If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</p>	<ul style="list-style-type: none"> . Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at

[https://www.dol.gov/agencies/whd/government-contracts.](https://www.dol.gov/agencies/whd/government-contracts)

Modification Number	Publication Date
0	01/07/2022
1	02/25/2022

SUKY2015-047 10/20/2015

	Rates	Fringes
BOILERMAKER.....	\$ 24.65	12.94
BRICKLAYER		
Bricklayer.....	\$ 22.90	8.50
Stone Mason.....	\$ 21.50	8.50
CARPENTER		
Carpenter.....	\$ 24.90	14.50
Piledriver.....	\$ 24.55	14.50
CEMENT MASON.....	\$ 21.25	8.50
ELECTRICIAN		
Electrician.....	\$ 29.36	10.55
Equipment Operator.....	\$ 26.90	10.31
Groundsman.....	\$ 17.79	8.51
Lineman.....	\$ 30.09	10.94

When workmen are required to work from bosum chairs, trusses, stacks, tanks, scaffolds, catwalks, radio and T.V. towers, structural steel (open, unprotected, unfloored raw steel), and bridges or similar hazardous locations where workmen are subject to fall, except where using JLG's and bucket trucks up to 75 feet: Add 25% to workman's base rate for 50 to 75 feet, and add 50% to workman's base rate for over 75 feet.

IRONWORKER.....	\$ 27.56	20.57
LABORER		
Group 1.....	\$ 21.80	12.36
Group 2.....	\$ 22.05	12.36
Group 3.....	\$ 22.10	12.36
Group 4.....	\$ 22.70	12.36

GROUP 1: Aging and Curing of Concrete (Any Mode or Method), Asbestos Abatement Worker, Asphalt Plant Laborers, Asphalt Laborers, Batch Truck Dumpers, Carpenter Tenders, Cement Mason Tenders, Cleaning of Machines, Concrete Laborers, Demolition Laborers, Dredging Laborers, Drill Tender, Environmental Laborer - Nuclear, Radiation, Toxic and Hazardous Waste - Level D, Flagmen, Grade Checkers, All Hand Digging and Hand Back Filling, Highway Marker Placers, Landscaping Laborers, Mesh Handlers and Placers, Puddler, Railroad Laborers, Rip-rap and Grouters, Right of Way Laborers, Sign, Guard Rail and Fence Installers (All Types), Signalmen, Sound Barrier Installer, Storm and Sanitary Sewer Laborers, Swampers, Truck Spotters and Dumpers, Wrecking of Concrete Forms, General Cleanup

GROUP 2: Batter Board Men (Sanitary and Storm Sewer), Brickmason Tenders, Mortar Mixer Operator, Scaffold Builders, Burner and Welder, Bushammers, Chain Saw Operator, Concrete Saw Operators, Deckhand Scow Man, Dry Cement Handlers, Environmental Laborers - Nuclear, Radiation, Toxic and Hazardous Waste - Level C, Forklift Operators for Masonry, Form Setters, Green Concrete Cutting, Hand Operated Grouter and Grinder Machine Operator, Jack Hammers, Lead Paint

Abatement, Pavement Breakers, Paving Joint Machine, Pipe Layers - Laser Operators (Non-metallic), Plastic Pipe Fusion, Power Driven Georgia Buggy and Wheel Barrow, Power Post Hole Diggers, Precast Manhole Setters, Walk-behind Tampers, Walk-behind Trenchers, Sand Blasters, Concrete Chippers, Surface Grinders, Vibrator Operators, Wagon Drillers

GROUP 3: Air Track Driller (All Types), Asphalt Luteman and Rakers, Gunnite Nozzleman, Gunnite Operators and Mixers, Grout Pump Operator, Powderman and Blaster, Side Rail Setters, Rail Paved Ditches, Screw Operators, Tunnel Laborers (Free Air), Water Blasters

GROUP 4: Caisson Workers (Free Air), Cement Finishers, Environmental Laborer - Nuclear, Radiation, Toxic and Hazardous Waste - Level A and B, miners and Drillers (Free Air), Tunnel Blasters, and Tunnel Mockers (Free Air), Directional and Horizontal Boring, Air Track Drillers (All Types), Powder Man and Blasters, Troxler and Concrete Tester if Laborer is Utilized

PAINTER

All Excluding Bridges.....	\$ 19.92	9.57
Bridges.....	\$ 23.92	10.07

PLUMBER.....	\$ 22.52	7.80
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POWER EQUIPMENT OPERATOR:

Group 1.....	\$ 29.95	14.40
Group 2.....	\$ 29.95	14.40
Group 3.....	\$ 27.26	14.40
Group 4.....	\$ 26.96	14.40

GROUP 1: Auto Patrol, Batch Plant, Bituminous Paver, Cable-Way, Clamshell, Concrete Mixer (21 cu ft or over), Concrete Pump, Crane, Crusher Plant, Derrick, Derrick Boat, Ditching and Trenching Machine, Dragline, Dredge Engineer, Elevator (regardless of ownership when used for hoisting of any building material), Elevating Grader and all types of Loaders, Hoe-type Machine, Hoisting Engine, Locomotive, LeTourneau or Carry-all Scoop, Bulldozer, Mechanic, Orangepeel Bucket, Piledriver, Power Blade, Roller (Bituminous), Roller (Earth), Roller (Rock), Scarifier, Shovel, Tractor Shovel, Truck Crane, Well Point, Winch Truck, Push Dozer, Grout Pump, High Lift, Fork Lift (regardless of lift height), all types of Boom Cats, Multiple Operator, Core Drill, Tow or Push Boat, A-Frame Winch Truck, Concrete Paver, Grade-All, Hoist, Hyster, Material Pump, Pumpcrete, Ross Carrier, Sheepfoot, Sideboom, Throttle-Valve Man, Rotary Drill, Power Generator, Mucking Machine, Rock Spreader attached to Equipment, Scoopmobile, KeCal Loader, Tower Cranes, (French, German and other types), Hydrocrane, Tugger, Backfiller Guries, Self-propelled Compactor, Self-Contained Hydraulic Percussion Drill

GROUP 2: All Air Compressors (200 cu ft/min or greater), Bituminous Mixer, Concrete Mixer (21 cu. ft. or over), Welding Machine, Form Grader, Tractor (50 hp and over), Bull Float, Finish Machine, Outboard Motor Boat, Brakeman, Mechanic Tender, Whirly Oiler, Tract-air, Road Widening Trencher, Articulating Trucks

GROUP 3: Greaser on Grease Facilities servicing Heavy Equipment

GROUP 4: Bituminous Distributor, Cement Gun, Conveyor, Mud Jack, Paving Joint Machine, Pump, Tamping Machine, Tractor (under 50 hp), Vibrator, Oiler, Air Compressor (under 200 cu ft per minute), Concrete Saw, Burlap and Curing Machine, Hydro Seeder, Power Form Handling Equipment, Deckhand Oiler, Hydraulic Post Driver

SHEET METAL WORKER.....	\$ 20.40	7.80
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TRUCK DRIVER

Driver (3 Tons and Over), Driver (Truck Mounted Rotary Drill).....	\$ 23.74	14.50
Driver (3 Tons and Under), Tire Changer and Truck Mechanic Tender.....	\$ 23.53	14.50
Driver (Semi-Trailer or Pole Trailer), Driver (Dump Truck, Tandem Axle), Driver of Distributor.....	\$ 23.40	14.50
Driver on Mixer Trucks (All Types).....	\$ 23.45	14.50
Driver on Pavement Breakers.	\$ 23.55	14.50
Driver, Euclid and Other Heavy Earth Moving Equipment and Low Boy.....	\$ 24.31	14.50
Driver, Winch Truck and A- Frame when used in Transporting Materials.....	\$ 23.30	14.50
Greaser on Greasing Facilities.....	\$ 24.40	14.50
Truck Mechanic.....	\$ 23.50	14.50
Truck Tender and Warehouseman.....	\$ 23.20	14.50

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
<https://www.dol.gov/agencies/whd/government-contracts>.

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 National Office because National Office has 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 DECISIO"

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

OVERTIME:

Overtime is to be paid to an employee at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty (40) hours in such workweek. Wage violations or questions should be directed to the designated Engineer or the undersigned.

Director
Division of Construction Procurement
Frankfort, Kentucky 40622
502-564-3500

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
4.5%	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 Laurel County.

PART IV
INSURANCE

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

PART V
BID ITEMS

PROPOSAL BID ITEMS

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Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	1,005.00	TON		\$	
0020	00020		TRAFFIC BOUND BASE	15.00	TON		\$	
0030	00190		LEVELING & WEDGING PG64-22	110.00	TON		\$	
0040	00212		CL2 ASPH BASE 1.00D PG64-22	412.00	TON		\$	
0050	00307		CL2 ASPH SURF 0.38B PG64-22	460.00	TON		\$	
0060	00356		ASPHALT MATERIAL FOR TACK	3.90	TON		\$	
0070	02101		CEM CONC ENT PAVEMENT-8 IN	142.00	SQYD		\$	
0080	20748ED		SHOULDER MILLING/TRENCHING	2,064.00	SQYD		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0090	00078		CRUSHED AGGREGATE SIZE NO 2	196.00	TON		\$	
0100	00441		ENTRANCE PIPE-18 IN	70.00	LF		\$	
0110	01310		REMOVE PIPE	63.00	LF		\$	
0120	01689		FLUME INLET TYPE 1 MOD	2.00	EACH		\$	
0130	01810		STANDARD CURB AND GUTTER	655.00	LF		\$	
0140	01820		LIP CURB AND GUTTER	279.00	LF		\$	
0150	01947		MOUNTABLE MEDIAN TYPE 3A	651.00	SQYD		\$	
0160	02159		TEMP DITCH	845.00	LF		\$	
0170	02160		CLEAN TEMP DITCH	423.00	LF		\$	
0180	02200		ROADWAY EXCAVATION	462.00	CUYD		\$	
0190	02429		RIGHT-OF-WAY MONUMENT TYPE 1	8.00	EACH		\$	
0200	02432		WITNESS POST	8.00	EACH		\$	
0210	02483		CHANNEL LINING CLASS II	9.00	TON		\$	
0220	02545		CLEARING AND GRUBBING (APPROX 0.4 ACRES)	1.00	LS		\$	
0230	02562		TEMPORARY SIGNS	274.00	SQFT		\$	
0240	02585		EDGE KEY	131.00	LF		\$	
0250	02602		FABRIC-GEOTEXTILE CLASS 1	942.00	SQYD		\$	
0260	02650		MAINTAIN & CONTROL TRAFFIC (LAUREL KY 229 HSIP)	1.00	LS		\$	
0270	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0280	02701		TEMP SILT FENCE	845.00	LF		\$	
0290	02703		SILT TRAP TYPE A	2.00	EACH		\$	
0300	02704		SILT TRAP TYPE B	2.00	EACH		\$	
0310	02705		SILT TRAP TYPE C	2.00	EACH		\$	
0320	02706		CLEAN SILT TRAP TYPE A	2.00	EACH		\$	
0330	02707		CLEAN SILT TRAP TYPE B	2.00	EACH		\$	
0340	02708		CLEAN SILT TRAP TYPE C	2.00	EACH		\$	
0350	02726		STAKING (LAUREL KY 229 HSIP)	1.00	LS		\$	
0360	03225		TUBULAR MARKERS (PEXCO CITY POST EMBEDDED ANCHOR CUP)	12.00	EACH		\$	
0370	05950		EROSION CONTROL BLANKET	251.00	SQYD		\$	
0380	05952		TEMP MULCH	6,227.00	SQYD		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0390	05953		TEMP SEEDING AND PROTECTION	4,670.00	SQYD		\$	
0400	05963		INITIAL FERTILIZER	.10	TON		\$	
0410	05964		MAINTENANCE FERTILIZER	.10	TON		\$	
0420	05985		SEEDING AND PROTECTION	1,178.00	SQYD		\$	
0430	05992		AGRICULTURAL LIMESTONE	.90	TON		\$	
0440	06406		SBM ALUM SHEET SIGNS .080 IN	200.00	SQFT		\$	
0450	06407		SBM ALUM SHEET SIGNS .125 IN	13.00	SQFT		\$	
0460	06410		STEEL POST TYPE 1	256.00	LF		\$	
0470	06490		CLASS A CONCRETE FOR SIGNS	2.00	CUYD		\$	
0480	06510		PAVE STRIPING-TEMP PAINT-4 IN	6,650.00	LF		\$	
0490	06542		PAVE STRIPING-THERMO-6 IN W	3,182.00	LF		\$	
0500	06543		PAVE STRIPING-THERMO-6 IN Y	5,106.00	LF		\$	
0510	06546		PAVE STRIPING-THERMO-12 IN W (OPTICAL SPEED BARS)	264.00	LF		\$	
0520	06569		PAVE MARKING-THERMO CROSS-HATCH	1,866.00	SQFT		\$	
0530	06574		PAVE MARKING-THERMO CURV ARROW	10.00	EACH		\$	
0540	06575		PAVE MARKING-THERMO COMB ARROW	4.00	EACH		\$	
0550	06575		PAVE MARKING-THERMO COMB ARROW (SPECIAL - FISH HOOK)	4.00	EACH		\$	
0560	20430ED		SAW CUT	540.00	LF		\$	
0570	21289ED		LONGITUDINAL EDGE KEY	1,095.00	LF		\$	
0580	21373ND		REMOVE SIGN	6.00	EACH		\$	
0590	21596ND		GMSS TYPE D	8.00	EACH		\$	
0600	21596ND		GMSS TYPE D (SURFACE MOUNT)	4.00	EACH		\$	
0610	21813NN		REMOVE AND RELOCATE SHEET SIGNS	1.00	EACH		\$	
0620	22520EN		PAVE MARKING-THERMO YIELD BAR-36 IN	44.00	LF		\$	
0630	22978EN		ROADWAY EXCAVATION-SPECIAL	145.00	CUYD		\$	
0640	23379EC		STAMPED CONCRETE (TRUCK APRON, STAMPED & DYED)	186.00	SQYD		\$	
0650	24097EC		THERMO RUMBLE STRIPS TY 2	108.00	LF		\$	
0660	24631EC		BARCODE SIGN INVENTORY	68.00	EACH		\$	
0670	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN	92.00	LF		\$	
0680	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	

Section: 0003 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0690	04700		POLE 30 FT MTG HT	2.00	EACH		\$	
0700	04721		BRACKET 6 FT	2.00	EACH		\$	
0710	04740		POLE BASE	2.00	EACH		\$	
0720	04750		TRANSFORMER BASE	2.00	EACH		\$	
0730	04761		LIGHTING CONTROL EQUIPMENT	1.00	EACH		\$	
0740	04780		FUSED CONNECTOR KIT	4.00	EACH		\$	
0750	04795		CONDUIT-2 IN	160.00	LF		\$	
0760	04820		TRENCHING AND BACKFILLING	20.00	LF		\$	
0770	04832		WIRE-NO. 12	240.00	LF		\$	
0780	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	3.00	EACH		\$	
0790	21543EN		BORE AND JACK CONDUIT	240.00	LF		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0800	23778EC		WIRE-NO. 10	780.00	LF		\$	
0810	24589ED		LED LUMINAIRE	2.00	EACH		\$	
0820	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	20.00	LF		\$	

Section: 0004 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0830	02569		DEMOBILIZATION	1.00	LS		\$	