



CALL NO. 109

CONTRACT ID. 154214

BARREN COUNTY

FED/STATE PROJECT NUMBER HSIP 9010 (195)

DESCRIPTION PARK CITY GLASGOW RD (KY 2189)

WORK TYPE ASPHALT PAVEMENT & ROADWAY REHAB

PRIMARY COMPLETION DATE 8/31/2016

LETTING DATE: July 31,2015

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 31,2015. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

DBE CERTIFICATION REQUIRED - 9%

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

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PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 03

CONTRACT ID - 154214

HSIP 9010 (195)

COUNTY - BARREN

PCN - 030521891501

HSIP 9010 (195)

PARK CITY GLASGOW RD (KY 2189) (MP 0.000) BEGINNING AT US 68 EXTENDING NORTH TO US 31W (MP 6.010), A DISTANCE OF 06.01 MILES.GRADE & DRAIN WITH ASPHALT SURFACE SYP NO. 03-09006.00.
GEOGRAPHIC COORDINATES LATITUDE 37:03:14.15 LONGITUDE 86:00:52.58

COMPLETION DATE(S):

COMPLETED BY 08/31/2016

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 Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. (www.transportation.ky.gov/construction-procurement)

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 is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provision of the act.

SPECIAL NOTE FOR COMPOSITE OFFSET BLOCKS

Contrary to the Standard Drawings (2012 edition) the Cabinet will allow 6" composite offset blocks in lieu of wooden offset blocks, except as specified on proprietary end treatments and crash cushions. The composite blocks shall be selected from the Cabinet's List of Approved Materials.

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. (See attachment)

10/29/12



Steven L. Beshear
Governor

Commonwealth of Kentucky
Finance and Administration Cabinet
OFFICE OF THE SECRETARY
Room 383, Capitol Annex
702 Capital Avenue
Frankfort, KY 40601-3462
(502) 564-4240
Fax (502) 564-6785

Lori H. Flanery
Secretary

SECRETARY'S ORDER 11-004

FINANCE AND ADMINISTRATION CABINET

Vendor Document Disclosure

WHEREAS, in order to promote accountability and transparency in governmental operations, the Finance and Administration Cabinet believes that a mechanism should be created which would provide for review and assistance to an Executive Branch agency if said agency cannot obtain access to documents that it deems necessary to conduct a review of the records of a private vendor that holds a contract to provide goods and/or services to the Commonwealth; and

WHEREAS, in order to promote accountability and transparency in governmental operations, the Finance and Administration Cabinet believes that a mechanism should be created which would provide for review and assistance to an Executive Branch agency if said agency cannot obtain access to documents that it deems necessary during the course of an audit, investigation or any other inquiry by an Executive Branch agency that involves the review of documents; and

WHEREAS, KRS 42.014 and KRS 12.270 authorizes the Secretary of the Finance and Administration Cabinet to establish the internal organization and assignment of functions which are not established by statute relating to the Finance and Administration Cabinet; further, KRS Chapter 45A.050 and 45A.230 authorizes the Secretary of the Finance and Administration Cabinet to procure, manage and control all supplies and services that are procured by the Commonwealth and to intervene in controversies among vendors and state agencies; and

NOW, THEREFORE, pursuant to the authority vested in me by KRS 42.014, KRS 12.270, KRS 45A.050, and 45A.230, I, Lori H. Flanery, Secretary of the Finance and Administration Cabinet, do hereby order and direct the following:

- I. Upon the request of an Executive Branch agency, the Finance and Administration Cabinet ("FAC") shall formally review any dispute arising where the agency has requested documents from a private vendor that holds a state contract and the vendor has refused access to said documents under a claim that said documents are not directly pertinent or relevant to the agency's inquiry upon which the document request was predicated.
- II. Upon the request of an Executive Branch agency, the FAC shall formally review any situation where the agency has requested documents that the agency deems necessary to

conduct audits, investigations or any other formal inquiry where a dispute has arisen as to what documents are necessary to conclude the inquiry.

- III. Upon receipt of a request by a state agency pursuant to Sections I & II, the FAC shall consider the request from the Executive Branch agency and the position of the vendor or party opposing the disclosure of the documents, applying any and all relevant law to the facts and circumstances of the matter in controversy. After FAC's review is complete, FAC shall issue a Determination which sets out FAC's position as to what documents and/or records, if any, should be disclosed to the requesting agency. The Determination shall be issued within 30 days of receipt of the request from the agency. This time period may be extended for good cause.
- IV. If the Determination concludes that documents are being wrongfully withheld by the private vendor or other party opposing the disclosure from the state agency, the private vendor shall immediately comply with the FAC's Determination. Should the private vendor or other party refuse to comply with FAC's Determination, then the FAC, in concert with the requesting agency, shall effectuate any and all options that it possesses to obtain the documents in question, including, but not limited to, jointly initiating an action in the appropriate court for relief.
- V. Any provisions of any prior Order that conflicts with the provisions of this Order shall be deemed null and void.

FEDERAL CONTRACT NOTES

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

102.02 Current Capacity Rating 102.10 Delivery of Proposals
102.08 Irregular Proposals 102.14 Disqualification of Bidders
102.09 Proposal Guaranty

CIVIL RIGHTS ACT OF 1964

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

NOTICE TO ALL BIDDERS

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

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

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

SECOND TIER SUBCONTRACTS

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

DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

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

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

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

DBE GOAL

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

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

OBLIGATION OF CONTRACTORS

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

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

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

CERTIFICATION OF CONTRACT GOAL

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

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

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

DBE PARTICIPATION PLAN

Lowest responsive bidders must submit the *DBE Plan/ Subcontractor Request*, form TC 14-35 DBE, within 7 days of the letting. This is necessary before the Awards Committee will review and make a recommendation. **The project will not be considered for award prior to submission and approval of the apparent low bidder’s DBE Plan/Subcontractor Request.**

The DBE Participation Plan shall include the following:

- 1 Name and address of DBE Subcontractor(s) and/or supplier(s) intended to be used in the proposed project;
- 2 Description of the work each is to perform including the work item , unit, quantity, unit price and total amount of the work to be performed by the individual DBE. The Project Code Number (PCN), Category Number, and the Project Line Number can be found in the “material listing” on the Construction Procurement website under the specific letting;
- 3 The dollar value of each proposed DBE subcontract and the percentage of total project contract value this represents. DBE participation may be counted as follows; a) If DBE suppliers and manufactures assume actual and contractual responsibility, the dollar value of materials to be furnished will be counted toward the goal as follows:
 - The entire expenditure paid to a DBE manufacturer;
 - 60 percent of expenditures to DBE suppliers that are not manufacturers provided the supplier is a regular dealer in the product involved. A regular dealer must be engaged in, as its principal business and in its own name, the sale of products to

- the public, maintain an inventory and own and operate distribution equipment;
and
- The amount of fees or commissions charged by the DBE firms for a bona fide service, such as professional, technical, consultant, or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, supplies, delivery of materials and supplies or for furnishing bonds, or insurance, providing such fees or commissions are determined to be reasonable and customary.
- b) The dollar value of services provided by DBEs such as quality control testing, equipment repair and maintenance, engineering, staking, etc.;
- c) The dollar value of joint ventures. DBE credit for joint ventures will be limited to the dollar amount of the work actually performed by the DBE in the joint venture;
- 4 Written and signed documentation of the bidder's commitment to use a DBE contractor whose participation is being utilized to meet the DBE goal; and
- 5 Written and signed confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment.

UPON AWARD AND BEFORE A WORK ORDER WILL BE ISSUED

Contractors must submit the signed subcontract between the contractor and the DBE contractor, the DBE's certificate of insurance, and an affidavit for bidders, offerors, and contractors from the DBE to the Division of Construction Procurement. The affidavit can be found on the Construction Procurement website. If the DBE is a supplier of materials for the project, a signed purchase order and an affidavit for bidders, offerors, and contractors must be submitted to the Division of Construction Procurement.

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

CONSIDERATION OF GOOD FAITH EFFORTS REQUESTS

If the DBE participation submitted in the bid by the apparent lowest responsive bidder does not meet or exceed the DBE contract goal, the apparent lowest responsive bidder must submit a Good Faith Effort Package to satisfy the Cabinet that sufficient good faith efforts were made to meet the contract goals prior to submission of the bid. Efforts to increase the goal after bid submission will not be considered in justifying the good faith effort, unless the contractor can show that the proposed DBE was solicited prior to the letting date. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted. One complete set and nine (9) copies of this information must be received in the

office of the Division of Contract Procurement no later than 12:00 noon of the tenth calendar day after receipt of notification that they are the apparent low bidder.

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

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

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

work requirements of the bid proposal; and

11 Any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include DBE participation.

FAILURE TO MEET GOOD FAITH REQUIREMENT

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

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

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

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

SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT

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

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

PROMPT PAYMENT

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

CONTRACTOR REPORTING

All contractors must keep detailed records and provide reports to the Cabinet on their progress in meeting the DBE requirement on any highway contract. These records may include, but shall not be limited to payroll, lease agreements, cancelled payroll checks, executed subcontracting agreements, etc. Prime contractors will be required to submit certified reports on monies paid to each DBE subcontractor or supplier utilized to meet a DBE goal. **These reports must be submitted within 14 days of payment made to the DBE contractor.**

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

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

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

The prime contractor should notify the KYTC Office of Civil Rights and Small Business Development seven (7) days prior to DBE contractors commencing work on the project. The contact is Melvin Bynes and the telephone number is (502) 564-3601.

Photocopied payments and completed form to be submitted to: Office of Civil Rights and Small Business Development 6th Floor West 200 Mero Street Frankfort, KY 40622

DEFAULT OR DECERTIFICATION OF THE DBE

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

04/29/2015

ASPHALT MIXTURE

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

DGA BASE

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

FUEL AND ASPHALT PAY ADJUSTMENT

The Department has included the Contract items Asphalt Adjustment and Fuel Adjustment for possible future payments at an established Contract unit price of \$1.00. The Department will calculate actual adjustment quantities after work is completed. If existing Contract amount is insufficient to pay all items on the contract with the adjustments, the Department will establish additional monies with a change order.

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)**

1. **Caution.** The information in this proposal shown on the Plan Sheets, Cross Section Sheets, and other Detail Sheets, and as summarized in the various Summary Sheets, as well as the type of work listed herein are approximate only and are not to be taken as a completely accurate evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions. The Department does not give any guarantee as to the accuracy of the data and no claim for money or time extension will be considered if the conditions encountered are not in accordance with the information shown.
2. **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.
3. **Stationing.** The contractor is advised that the planned locations of work were established from a beginning station number which is STA 100+00 at MP 0.000, which is at the intersection of KY 2189 and US 68. The existing reference mile markers may not correspond to the established work locations.
4. **Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
5. **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 the Engineer's decision shall be final and binding upon the Contractor.
6. **Utilities.** The contractor is advised there are locations of overhead utility wires on the project. These and all other utilities should be avoided on this project. If any utility is impacted, it will be the contractor's responsibility to contact the affected utility and cover any costs associated with the impact.

General Notes

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7. **Superelevation Improvement.** There are several areas where Superelevation Improvements are being proposed. Refer to the Superelevation Improvement Summary for locations and approximate quantities. The intent of this work is to bring a consistent pavement cross slope through the identified areas. The Contractor may need to utilize a variety of bid items for the different locations in order to achieve the desired superelevation. In certain areas where the superelevation improvement will only require adding 1-2 inches of additional pavement depth Leveling & Wedging PG64-22 will be used. In other areas where the superelevation improvement will require 3 or more inches of additional pavement depth CL2 Asph Base 0.75D PG 64-22 will be required. Also note that in other locations in order to achieve a consistent pavement cross slope along the entire length of curve, 1-2 inches of the existing pavement may need to be removed by Milling & Texturing.

NOTE: It is not anticipated that substantial Milling & Texturing will be required; therefore only a nominal quantity of 100 TONS has been established for the possibility of any necessary milling. It has also been assumed the asphalt material needed to construct the superelevation improvements will be approximately 50% Leveling & Wedging and 50% Asphalt Base.

The Engineer will make the final determination as to which bid items will be required at each superelevation improvement area, as well as the appropriate lift thicknesses and number of lifts based on the existing conditions encountered at the time of construction and the desired superelevation improvement as detailed in the cross sections, or as directed by the Engineer, up to 8% max.
8. **Culvert Pipe.** Except for the bid items listed, all materials required for culvert pipe installation are incidental to the associated Culvert Pipe bid item. This includes flowable fill and asphalt base, as shown on the Culvert Pipe Detail.
9. **Turf Reinforcement Mat 1 and Channel Lining Class II.** Quantities of Turf Reinforcement Mat 1 and Channel Lining Class II have been included and are to be used in conjunction with the culvert pipe replacements as directed by the Engineer.

SPECIAL NOTES APPLICABLE TO PROJECT

I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard Specifications for Road and Bridge Construction, 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) Site Preparation; (3) Ditching;
- (4) Shouldering; (5) Constructing Pipe Extensions and/or Replacing Culvert Pipes;
- (6) Asphalt Installation; and (7) Any other work as specified by this contract.

II. MATERIALS

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

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Shouldering, DGA.** Shouldering shall be completed using compacted earth and DGA aggregate, as detailed on the Typical Sections and as described in the Proposal notes. Furnish DGA per the requirements of Section 805.
- C. Culvert Pipe.** Furnish pipe meeting the requirements of Section 701 and Section 810. Select pipe for Ph range Medium and minimum fill cover height according to Standard Drawings RDI-001-09, RDI-002-04, and RDI-035-01. Use flowable fill for pipe backfill according to Section 601.03.03(B).

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 saw cutting and removing pavement; clearing and grubbing, and incidental excavation and backfilling; removal of existing pipe, headwalls and any obstructions or items; restoration of pavements, slopes, and all disturbed areas; final dressing and cleanup; and disposal of materials. Perform all site preparation only as approved or directed by the Engineer.

Special Notes Applicable to Project
Page 2 of 5

Immediately prior to completion, clean all existing and new culvert pipe and clean ditches. Provide positive drainage of pavement, shoulders, slopes, and ditches at all times during and upon completion of construction.

C. Ditching, Shouldering, DGA. All work shall be completed according to Section 209, and/or as specified in the Proposal notes, Plans, Typical Sections, Ditching Summary, Shouldering Summary, or as directed by the Engineer. Ditching will consist of any necessary grading and/or shaping of the existing shoulder and ditch to achieve the proposed ditch and shoulder dimensions as detailed in the Typical Sections. Shouldering will consist of any necessary grading and/or shaping of the existing shoulder (or providing suitable earth material and grading, shaping, and compacting the earth material) in order to achieve the proposed shoulder dimensions as detailed in the Typical Sections. After necessary ditching, shouldering, and resurfacing operations are complete, an 18" wide, 4" thick (average) layer of DGA shall be placed along the shoulders, as detailed on the Typical Sections. Two applications of Chip Seal are to be applied on the DGA along the shoulder, as shown on the Typical Sections and as described in the Proposal notes.

D. Roadway Excavation, Embankment-in-Place. The bid items "Roadway Excavation" and "Embankment In Place" have been established for the excavation, benching, and embankment work in the approximate station ranges of:

Station 140+50 to 146+50
Station 169+00 to 176+50
Station 358+00 to 361+00
Station 362+50 to 365+00
Station 378+00 to 382+00
Station 388+00 to 392+00

All work will be completed according to all applicable Standard Specifications, or as specified in the Proposal notes, Typical Sections, Cross Sections, other details within the Proposal, or as directed by the Engineer. Any grading, excavation, benching, embankment, or compacted earth needed for the work described as "Ditching" and "Shouldering" outside of the station ranges listed above will be considered incidental to the bid items "Ditching" or "Shouldering", as applicable.

E. Culvert Pipe. Construct culvert pipes at the locations noted in the proposal or as designated by the Engineer. The contractor will establish, with the approval of the Engineer, the final centerlines, flow lines, and skews of proposed culvert pipes to obtain the best fit with the existing ditches and channels. Saw cut the existing asphalt pavement and base to a neat edge prior to excavation and removal of the existing pipe. Obtain the Engineer's approval of trench width prior to cutting pavement. Excavate trench and remove pipe as directed or approved by the Engineer without disturbing existing underground utilities. Waste excavated materials and removed pipe at approved sites off the right of way obtained by the Contractor at no additional cost to the Department. Construct pipe bedding according to Section 701 and the

Special Notes Applicable to Project
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applicable Standard or Sepia Drawings. Use approved connecting bands or concrete anchors as required. Prior to backfilling pipe, obtain the Engineer's approval of the pipe installation. Provide positive drainage upon completion of pipe installation.

The Contractor shall install the pipe replacements initially as shown in the Culvert Pipe Detail, excluding the Asphalt Surface. The Contractor shall wait a minimum of 48 hours after pipe replacement, placement of flowable fill pipe backfill, and placement of Asphalt Base, before placing the Asphalt Surface. During the waiting period, the Contractor is responsible for maintaining the driving surface. Materials used for maintenance shall be incidental to Maintain and Control Traffic.

- G. Pipe Backfill.** Contrary Section 701.03.06, all pipes shall be backfilled with flowable fill for the width of the roadway, and as shown on the Pipe Replacement Detail. Construct the roadway section, shoulder, and embankment as shown on the Pipe Sections, or as directed by the Engineer. Provide positive drainage of slopes at all times during and upon completion of construction.
- H. Asphalt Pavement Installation.** All work shall be completed according to Sections 401, 402, & 403. Superelevation Improvements are to be completed by placing asphalt base, leveling & wedging, and asphalt surface mixtures as indicated on the Typical Sections, Cross Sections, Summaries, and other details within the Proposal. The Engineer shall make the final determination as to which pavement materials, lift thicknesses, and numbers of lifts are appropriate at each superelevation improvement area based on the existing conditions encountered at the time of construction and the desired superelevation improvement.
- I. Milling and Leveling & Wedging.** Milling and Leveling & Wedging shall be determined by the Engineer. Asphalt quantities per location shall be determined by the Engineer according to Section 403.
- J. Disposal of Waste.** Dispose of all removed concrete, pipe, pavement, debris, excess and unsuitable excavation, and all other waste at approved sites, off the right of way, obtained by the Contractor at no additional cost to the Department.
- K. Final Dressing, Clean Up, Seeding and Protection, and Restoration.** After all work is completed, remove all waste and debris from the job site. Grade all disturbed areas to blend with the adjacent roadway features and to provide a suitable seed bed. Perform 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.
- L. Erosion Control.** Perform all erosion and water pollution control work in accordance with any other notes in the Proposal, the Department's Standard and Interim Supplemental Specifications, Special Provisions and Special Notes, and Standard and Sepia Drawings, current editions, and as directed by the Engineer.

Special Notes Applicable to Project
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IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** Maintain and Control Traffic will be measured as Lump Sum.
- B. Site Preparation.** Other than the bid items listed, Site Preparation will NOT be measured for payment, but shall be incidental to the project bid items.
- C. Ditching, Shouldering, DGA.** DGA will be measured in tons and weighed according to Section 109. For the bid items “Ditching” and “Shouldering”, the Department will measure the quantities according to Section 209.
- D. Culvert Pipe.** The Department will measure the quantity according to Section 701. Any excavation, removal of existing pipe, materials (including Asphalt Base and Flowable Fill) necessary to install culvert pipe will be incidental to the corresponding culvert pipe bid items.
- E. Pipe Backfill.** Backfilling of pipe will NOT be measured for payment, but shall be incidental to the installation of the pipe.
- F. Roadway Excavation, Embankment-in-place.** The Department will measure the quantities according to Sections 204 and 206, but only within the station ranges of:
- Station 140+50 to 146+50
 - Station 169+00 to 176+50
 - Station 358+00 to 361+00
 - Station 362+50 to 365+00
 - Station 378+00 to 382+00
 - Station 388+00 to 392+00
- Any grading, excavation, benching, embankment, or compacted earth outside of these station ranges will be incidental to the bid items “Ditching” and “Shouldering”.
- G. Asphalt Pavement Installation.** The Department will measure the quantities according to Sections 109, 402, & 403.
- H. Milling and Leveling & Wedging.** The Department will measure the quantities according to Section 403.

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic.** The Department will pay the quantity as Lump Sum.

Special Notes Applicable to Project
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- B. Ditching, Shouldering, DGA.** For DGA, the Department will make payment according to Section 109. For the bid items “Ditching” and “Shouldering”, the Department will make payment according to Section 209.
- C. Culvert Pipe.** The Department will make payment for culvert pipe by the linear foot of completed and accepted quantities. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals for excavating and removing existing pipe, and furnishing, installing, and backfilling new culvert pipe.
- D. Pipe Backfill.** The Department will NOT make payment for backfilling pipe, but shall be incidental to the installation of the pipe.
- I. Roadway Excavation, Embankment-in-place.** The Department will make payment according to Sections 204 and 206, but only within the station ranges of:
- Station 140+50 to 146+50
 - Station 169+00 to 176+50
 - Station 358+00 to 361+00
 - Station 362+50 to 365+00
 - Station 378+00 to 382+00
 - Station 388+00 to 392+00
- Any grading, excavation, benching, embankment, or compacted earth outside of these station ranges will be incidental to the bid items “Ditching” and “Shouldering”.
- E. Asphalt Pavement Installation.** The Department will make payment for the completed and accepted quantities in Tons according to Section 403.
- F. Milling and Leveling & Wedging.** The Department will make payment for the completed and accepted quantities in Tons according to Section 403.

SPECIAL NOTE FOR STAKING

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

1. Contrary to Section 201, perform items 1-3 usually performed by the Engineer; and
2. Establish typical section cross slopes for superelevation improvements, transitions and tapers, shoulder widening, and details to align the pipe extensions and/or culvert pipe replacements to match the existing roadway alignment and curvature, and to ensure positive drainage upon completion of the work; and
3. Verify the dimensions and quantities of the proposed drainage features and revise as necessary to accommodate the existing site conditions, to provide proper alignment with stream channels, swales, ditches, and the roadway lines and grades, and to ensure positive drainage upon completion of the work; and
4. Verify entrance pipe lengths and determine flow line elevations and slopes necessary to provide positive drainage; and
5. Prior to incorporating into the work, obtain the Engineers approval of all designs and revisions to be provided by the Contractor; and
6. Produce and furnish to the Engineer "As Built" plans of the pavement cross slopes in the superelevation improvement areas and of the drainage/culvert pipe improvements; and
7. Perform any and all other staking operations required to control and construct the work.

SPECIAL NOTE

For Tree Removal

**Barren County
KY 2189 Safety Improvements
Item No. 3-9006**

NO TREE CLEARING FROM JUNE 1- JULY 31.

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

SPECIAL NOTE FOR TREE, STUMP, AND BRUSH REMOVAL

I. DESCRIPTION

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

This work shall consist furnishing all equipment, labor, materials, and incidentals for the following: (1) Site Preparation; (2) Maintaining and controlling traffic; (3) Temporary erosion control and temporary pollution control; (4) Cutting, trimming, and/or removing trees, stumps, and/or brush as specified or directed by the Project Engineer; (5) Treating all cut stumps required by Project Engineer to prevent re-sprouting; (5) Clean up and disposal of waste; (6) Final dressing and seeding and protection; and (7) all other work specified in the Contract.

II. MATERIALS

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

- A. Maintain and Control Traffic.** The Contractor shall maintain and control traffic in accordance with the Traffic Control Plan.

- B. Seeding and Protection.** Use applicable Seed Mixture as specified per Section 212.03.03.

III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic.** The Contractor shall maintain and control traffic in accordance with the Traffic Control Plan.

- B. Cutting, Trimming, and/or Removing Trees, Stumps, and/or Brush.** The Contractor shall cut trees and/or bushes as close to the ground as possible; three inches (3") or less from ground line. Grinding of all tree stumps within the mowing zone shall be required as directed by the Project Engineer. All stumps that are designated to be treated by mechanical grinding shall be required to be removed to a minimum depth of two (2) inches below the surrounding grade line. Treat, within one hour of cutting, all stumps with the specified herbicide solution. Replace and level any and all soil disturbed during these operations. Leave the soil in a condition suitable for seeding that is level with surrounding soil grade, with no holes or indentions to catch water or present unsafe mowing conditions. This work will be incidental to the bid item "Trim and Remove Trees and Brush." NOTE: Tree cutting restrictions apply. Tree cutting shall NOT be permitted between June 1st and July 31st. See Special Note for Completion Dates &

Tree, Stump, and Brush Removal
Page 2 of 5

Liquidated Damages concerning damages if trees and/or bushes are cut within this specified time frame.

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

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

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

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

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

a. Glyphosate

Active ingredient: **(Glyphosate)**

*Glyphosate, N-(phosphonomethyl)glycine, in the form of its potassium salt.....	48.7%
Inert ingredients	51.3%
Total	100.0%

Tree, Stump, and Brush Removal
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* Contains 660 grams per liter or 5.5 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its potassium salt. Equivalent to 540 grams per liter or 4.5 pounds per U.S. gallon of the acid, glyphosate.
EPA Reg. No. 524-579

b. Imazapyr

Active ingredient: **(Imazapyr)**

*Isopropylamine salt of Imazapyr 2-[4,5-dihydro-4-methyl-4-(1methylethyl)-5oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)	26.7%
Inert ingredients	73.3%
Total	100%

* Equivalent to 21.8 percent 2-[4,5-dihydro-4-methyl-4-(1methylethyl)-5oxo-1H-imidazolyl]-3-pyridinecarboxylic acid or 2 pounds acid per gallon.
EPA Reg. No. 241-431

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

E. Property Damage. The Contractor will be responsible for all damage to public and/or private property resulting from his work.

F. Coordination with Utility Companies. NOTICE: Utility locations shown in the plans are approximate and have not been specifically located by the Department. Locate all underground, above ground and overhead utilities prior to beginning construction. The Contractor shall have the responsibility for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Utility Owner while they relocate their facilities. The Contractor shall be responsible for repairing all utility damage that occurs as a result of his operations.

G. Right-of-Way Limits. The exact limits of the Right-of-Way have not been established by the Department. The Contractor shall limit his activities to obvious Right-of-Way, permanent or temporary easements, and any work areas secured by consent and release of the adjacent property owners. The Contractor shall be responsible for all encroachments onto private lands.

H. Clean Up, Disposal of Waste. Clean up and dispose of all removed debris by the end of each work day, and other waste as per Section 204.03.08. The Department will incur no

Tree, Stump, and Brush Removal
Page 4 of 5

cost to obtain the disposal sites. The Department will NOT make direct payment for clean up or disposal of waste and debris from the project.

- I. **Final Dressing, Seeding and Protection.** After all work is completed, grade all disturbed areas to blend with the adjacent roadway features and to provide a suitable seed bed. Perform 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.

IV. METHOD OF MEASUREMENT

- A. **Maintain and Control Traffic.** Maintain and Control Traffic will be measured as Lump Sum.
- B. **Site preparation.** Site preparation necessary for trimming and/or removal of trees, stumps, and/or brush will NOT be measured for payment, but shall be incidental to the bid item "Trim & Remove Trees & Brush".
- C. **Trim & Remove Trees & Brush.** The Department will measure the quantity as per linear foot per side of highway.
- D. **Stump Treatment.** The Department will NOT measure for payment the operation of Stump Treatment. This activity shall be incidental to the bid item "Trim & Remove Trees & Brush".
- E. **Clean Up, Disposal of Waste.** The Department will NOT measure for payment the operations of Clean Up and Disposal of Waste. These activities shall be incidental to project bid items.

V. BASIS OF PAYMENT

- A. **Maintain and Control Traffic.** The Department will pay the quantity as Lump Sum.
- B. **Site Preparation.** The Department will NOT make payment for Site Preparation. Site preparation necessary for the trimming and/or removal of trees, stumps, and/or brush will be incidental to the bid items "Remove Trees or Stumps" and "Trim & Remove Trees & Brush".
- C. **Trim & Remove Trees & Brush.** The Department will make payment for the completed and accepted quantities per linear foot. (NOTE: Tree cutting shall NOT be permitted between June 1st and July 31st. The Contractor shall NOT receive payment at the contract unit price for any trees and/or bushes cut within this time frame.) The Department will consider payment at the contract unit price as full compensation for

Tree, Stump, and Brush Removal
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furnishing all materials, equipment, labor, other expenses, and all incidentals necessary to complete the work to trim and remove trees and/or brush.

- D. Stump Treatment.** The Department will NOT make payment for the operation of Stump Treatment. This activity shall be incidental to the bid item “Trim & Remove Trees & Brush”.

- E. Clean Up, Disposal of Waste.** The Department will NOT make payment for the operations of Clean Up and Disposal of Waste. These activities shall be incidental to the bid item “Trim & Remove Trees & Brush”.

SPECIAL NOTE FOR EROSION CONTROL

Perform all erosion and water pollution control work in accordance with any other Proposal notes, the Department's Standard and Interim Supplemental Specifications, Special Provisions and Special Notes, and Standard and Sepia Drawings, current editions, and as directed by the Engineer. Contrary to Section 105.05, in case of discrepancy between these notes, the Standard Specifications, Interim Supplemental Specifications, Special Notes and Special Provisions, Standard and Sepia Drawings, and any state and local government agency requirements, adhere to the most restrictive requirement.

The Contractor shall be responsible for filing the Kentucky Pollution Discharge Elimination System (KPDES) KYR10 permit Notice of Intent (NOI) with the Kentucky Division of Water (DOW) and any KPDES local Municipal Separate Storm Sewer System (MS4) program that has jurisdiction. The NOI shall name the contractor as the Facility Operator and include the KYTC Contract ID Number (CID) for reference.

The Contractor shall also be responsible for filing the KPDES permit Notice of Termination (NOT) with the Kentucky DOW and any local MS4 program that has jurisdiction. The NOT shall be filed after the Engineer agrees that the project is stabilized or the project has been formally accepted.

The Contractor shall perform all temporary erosion/sediment control functions including: providing a Best Management Practice (BMP) Plan, conducting required inspections, modifying the BMP plan documents as construction progresses and documenting the installation and maintenance of BMPs in conformance with the KPDES KYR10 permit effective on August 1, 2009 or a permit re-issued to replace that KYR10 permit. This work shall be conducted in conformance with the requirements of Section 213 of KYTC 2012 Department of Highways, Standard Specifications for Road and Bridge Construction.

The contractor shall be responsible for applying "good engineering practices" as required by the KPDES permit. The contractor may use any temporary BMPs with the approval of the KYTC Engineer.

The contractor shall provide the Engineer copies of all documents required by the KPDES permit at the time they are prepared.

The contractor shall be responsible for the examination of the soils to be encountered and make his own independent determination of the temporary BMPs that will be required to accomplish effective erosion prevention and sediment control.

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

Erosion Control

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

The Contractor shall compute the volume necessary to control sediment during each phase of construction. As work progresses, add or remove erosion control measures as required by the BMP applicable to the Contractor's project phasing and construction methods and techniques. Update the volume calculations and modify the BMP as necessary throughout the duration of the project. Ensure that an updated BMP is kept on site and available for public inspection throughout the life of the project. The required volume at each Silt Trap shall be re-computed as the Up Gradient Contributing Areas are disturbed or as they are stabilized to the satisfaction of the Engineer. The required volume calculation for each Silt Trap shall be determined by the Contractor and verified by the Engineer. The required volume at each Silt Trap may be reduced by the following amounts:

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

The use of Temporary Mulch is encouraged.

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

After all construction is complete, restore all disturbed areas in accordance with Section 212. Completely remove all temporary erosion control devices not required as part of the permanent erosion control from the construction site. Prior to removal, obtain the Engineer's concurrence of items to be removed. Grade the remaining exposed earth (both on and off the Right of-Way) as nearly as possible to its original condition, or as directed by the Engineer. Prepare the seed bed areas and sow all exposed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

SPECIAL NOTES FOR COMPLETION DATES & LIQUIDATED DAMAGES

The ultimate fixed completion date for this project will be August 31, 2016. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

Tree and/or bush cutting/trimming/clearing shall not be permitted between June 1st and July 31st. Any trees and/or bushes that are cut or trimmed within this specified time frame will not receive payment at the contract unit price. Furthermore, failure to adhere to these cutting restrictions shall result in Liquidated Damages in the amount of **\$283.50** per affected tree as mitigation to the Indiana Bat Conservation Fund for the loss of habitat. Activities that are a part of this contract that do not involve the initial trimming, cutting, and/or clearing of trees and/or bushes will be permitted under the ultimate fixed completion date.

In addition to the requirements of Section 108.09, the Department will assess Liquidated Damages in the amount of **\$2400** per day, per occurrence, for failure to perform cleanup and removal of debris and wood waste within the required time. Work will be suspended until the debris has been removed from the right-of-way.

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

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

All liquidated damages will be applied accumulatively.

All other applicable portions of Section 108 apply.

SPECIAL PROVISION FOR WASTE AND BORROW SITES

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

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

COORDINATION OF WORK WITH OTHER CONTRACTS

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

1-3193 Coordination Contracts
01/02/2012

SPECIAL NOTE FOR DOUBLE ASPHALT SEAL COAT

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

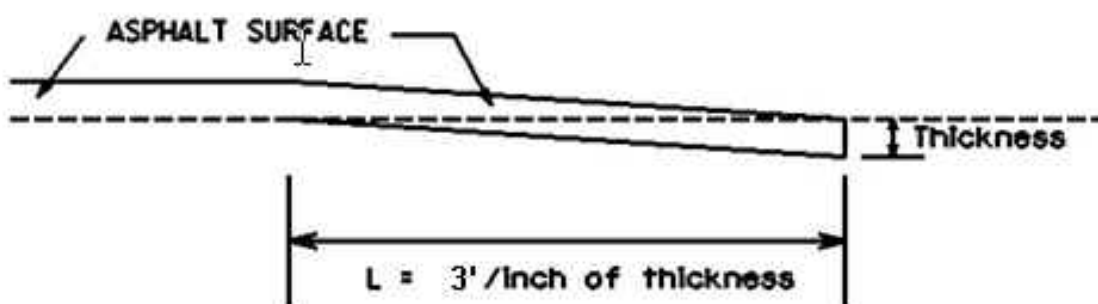
The Department will not measure any surface preparation required prior to applying the asphalt seal coat, but shall be incidental to “Asphalt Material for Asphalt Seal Coat”.

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

SPECIAL NOTE FOR 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 = 1.0 Inches

L = 3.0 LF

L = Length of Edge Key

**SPECIAL NOTE FOR
ASPHALT MILLING AND TEXTURING**

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

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

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

SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

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

1-3725 Typical Section Dimensions
01/02/2012

TRAFFIC CONTROL PLAN

TRAFFIC CONTROL GENERAL

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

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

MAINTAIN & CONTROL TRAFFIC

Will be measured only once for payment.

PROJECT PHASING & CONSTRUCTION PROCEDURES

All work must be completed at all times utilizing lane closures and maintaining alternating one way traffic during construction operations. This includes using part-width construction when open-cutting the roadway for culvert pipe replacement. When lane closures are utilized the clear lane width shall be 9 feet. Asphalt Leveling & Wedging and Asphalt Base used for Superelevation Improvements shall be placed in lifts to ensure pavement drop offs are not excessive, such that 2-lanes of traffic can be maintained overnight. Leveling & Wedging and Asphalt Base thicknesses shall be approved by the Engineer. With approval of the Engineer, short stoppages of no more than 20 minutes for construction operations can be experienced; however, the contractor shall make provisions for the passage of all emergency vehicles and school buses on an official run as quickly as possible in less than the 20 minute allowed stoppage time.

No lane closures or road closures will be allowed on the following dates:

Labor Day Weekend,	September 4-7, 2015
Thanksgiving Holiday/Weekend,	November 26-29, 2015
Christmas Holiday/Weekend,	December 24-27, 2015
New Year's Holiday/Weekend,	January 1-3, 2016
Easter Weekend	March 25-27, 2016
Memorial Day Weekend,	May 27-30, 2016
Independence Day Weekend,	July 1-4, 2016

NOTE: Under special circumstances, KYTC reserves the right to restrict the use of lane closures and/or road closures due to unforeseen special events.

Traffic Control Plan
Page 2 of 3

SIGNS

Contrary to Section 112.04.02, only long term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment, but will be incidental to Maintain and Control Traffic. Replacements for damaged signs or signs directed to be replaced by the Engineer due to poor legibility or reflectivity will not be measured for payment.

LANE CLOSURES

At the discretion of the Engineer, days and hours may be specified when lane closures will not be allowed. Provide a minimum distance of 1 mile between lane closures when utilizing a lane closures in more than one location. Do not leave lane closures in place during prohibited periods, holidays, special events, and non-working hours. No long term lane closures will be allowed; therefore, contrary to Section 112, lane closures will not be measured for payment. For information on Lane Closure setup, please refer to the Sepia Drawing 017, "Lane Closure Two-Lane Highway".

PAVEMENT MARKINGS

Place temporary and permanent striping in accordance with Section 112.

BARRICADES

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain and Control Traffic according to Section 112.04.01. Barricades used to protect pavement removal areas will be measured as each according to Section 112.04.04.

INGRESS AND EGRESS

Reasonable means of ingress and egress shall be maintained to all properties within the project limits. The Contractor will be responsible for notifying property owners when work affecting their entrance(s) will be performed. Access to fire hydrants must also be maintained at all times.

VARIABLE MESSAGE SIGNS

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

PROJECT TRAFFIC COORDINATOR

In addition to the requirements of Section 112.03.12, the Project Traffic Coordinator will be responsible for giving their contact information to local law enforcement and emergency personnel.

Traffic Control Plan
Page 3 of 3

PAVEMENT EDGE DROP-OFFS

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

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

Less than 2" – No protection required.

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

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

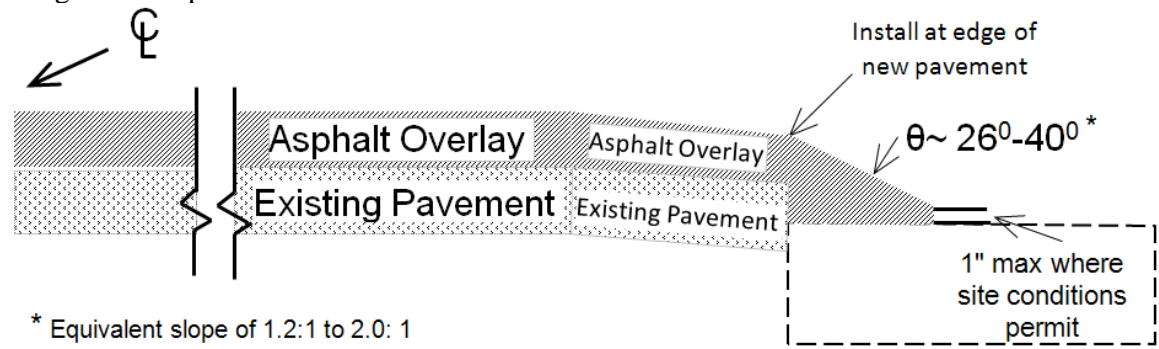
Temporary drop-offs during working hours, where construction operations are taking place, should be kept to a minimum.

SPECIAL NOTE FOR PAVEMENT EDGE (EXPERIMENTAL)

1.0 CONSTRUCTION. Attach a device to the screed of the paver that confines the material at the end gate and extrudes the asphalt material in such a way that results in a compacted wedge shape pavement edge of approximately 30 degrees (not steeper than 40 degrees). The device shall maintain contact to the road shoulder surface. It shall also allow for automatic transition to cross roads, driveways and obstructions. The device shall constrain the asphalt head reducing the area by 10 to 15% increasing the density of the extruded profile. The use of a single plate strike off is not allowed.

The contractor may use the TransTech Shoulder Wedge Maker, the Advant-Edger, Carlson Safety Edge End Gate, Troxler SafeTSlope Edge Smoother, or a similar device that produces the same wedge consolidation results. If the contractor uses a similar device, they must provide proof that the device has been used on previous projects with acceptable results or the contractor shall construct a test section prior to the beginning of work and demonstrate wedge compaction to the satisfaction of the Engineer. Short sections of handwork will be allowed when necessary for transitions and turnouts or otherwise authorized by the Engineer.

The following sketch is primarily for the computation of quantities; however, the wedge will result in a similar cross-section. Do not construct a shoulder for placing the wedge unless specified elsewhere in the Contract.



2.0 UNPAVED SHOULDER PREPARATION. Prior to placing asphalt pavement, prepare the shoulder material, including removal of vegetation/sod, where the pavement wedge will be placed to provide a foundation that will support the placement of the pavement wedge according to Section 403.03.02 of the Standard Specifications.

3.0 COORDINATION. A Preconstruction Conference will be required for the first Pavement Edge (experimental) project awarded to each contractor in a given Highway District each year. A representative from the Central Office Division of Traffic Operations – Traffic Engineering Safety Section should be in attendance. At this meeting, the Contractor is to provide the details of the device that will be used to place the wedge.

4.0 PAYMENT. The Department will not measure preparation or construction of pavement wedge for separate payment, but make payment for the completed and accepted quantities of Asphalt Surface Mixtures according to Section 402 of the Standard Specifications.

SPECIAL NOTE FOR PRE-CONSTRUCTION CONFERENCE

The Department will conduct a Pre-Construction Conference (Section 108.03 of the Standard Specifications) for the first Pavement Edge (experimental) project awarded to each contractor in a given Highway District each year prior to work being allowed to begin on SafetyEdge projects.

The purpose of the conference is to familiarize the awarded contractor with the requirements of the Contract, particularly the requirements of installing the Safety Edge.

Department of Highways officials from the Division of Traffic Operations will be present at the conference to answer questions concerning the project.

Right-of-Way Certification Form

Revised 2/22/11

Federal Funded

Original

State Funded

Re-Certification

This form must be completed and submitted to FHWA with the PS&E package for federal-aid funded Interstate, Appalachia, and Major projects. This form shall also be submitted to FHWA for all federal-aid projects that fall under Conditions No. 2 or 3 outlined elsewhere in this form. When Condition No. 2 or 3 apply, KYTC shall resubmit this ROW Certification prior to construction contract Award. For all other federal-aid projects, this form shall be completed and retained in the KYTC project file.

Date: 06/19/2015

Project Name: Safety Improvements on KY 2189

Letting Date: July, 31, 2015

Project #: FD52 005 2189 000-006

County: Barren

Item #: 03-9006.00

Federal #: HSIP 9010 (112)

Description of Project: Safety Improvements on KY 2189 from US 31W east of Park City (MP 0.000), South to US 68 west of Glasgow (MP 6.010)

Projects that require NO new or additional right-of-way acquisitions and/or relocations

The proposed transportation improvement will be built within the existing rights-of-way and there are no properties to be acquired, individuals, families, and businesses ("relocatees") to be relocated, or improvements to be removed as a part of this project.

Projects that require new or additional right-of-way acquisitions and/or relocations

Per 23 CFR 635.309, the KYTC hereby certify that all relocatees have been relocated to decent, safe, and sanitary housing or that KYTC has made available to relocatees adequate replacement housing in accordance with the provisions of the current FHWA directive(s) covering the administration of the Highway Relocation Assistance Program and that at least one of the following three conditions has been met. (Check those that apply.)

Condition 1. All necessary rights-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. Fair market value has been paid or deposited with the court.

Condition 2. Although all necessary rights-of-way have 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. Trial or appeal of 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. Fair market value has been paid or deposited with the court for most parcels. Fair market value for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract. (See note 1 below.)

Note 1: The KYTC shall re-submit a right-of-way certification form for this project prior to AWARD of all Federal-Aid construction contracts. Award must not to be made until after KYTC has obtained full legal possession and fair market value for all parcels has been paid or deposited with the court and FHWA has concurred in the re-submitted right-of-way certification.

Right-of-Way Certification Form

Revised 2/22/11

Condition 3. The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. However, all remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. The KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary rights-of-way will not be fully acquired, and/or some occupants will not be relocated, and/or the fair market value 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. A full explanation and reason for this request, including identification of each such parcel and dates on which acquisitions, payments, and relocations will be completed, is attached to this certification form for FHWA concurrence. (See note 2.)

Note 2: The KYTC may request authorization on this basis only in unique and unusual circumstances. Proceeding to bid letting shall be the exception and never become the rule. In all cases, the KYTC shall make extraordinary efforts to expedite completion of the acquisition, payment for all affected parcels, and the relocation of all relocatees prior to AWARD of all Federal-Aid construction contracts or force account construction.

Approved: Kelly R. Divine  Right-of-Way Supervisor
 Printed Name Signature

Approved: Dean M. Lay  KYTC, Director of ROW & Utilities
 Printed Name Signature

Approved: _____ FHWA, ROW Officer (when applicable)
 Printed Name Signature

No Signature Required
 as per FHWA - KYTC
 2013 Stewardship Agreement

Right-of-Way Certification Form

Revised 2/22/11

Date: 06/19/2015

Project Name: Safety Improvements on KY 2189
 Project #: FD52 005 2189 000-006 County: Barren
 Item #: 03-9006.00 Federal #: HSIP 9010 (112)
 Letting Date: July, 31, 2015

This project has -0- total number of parcels to be acquired, and -0- total number of individuals or families to be relocated, as well as -0- total number of businesses to be relocated.

- 0- Parcels where acquired by a signed fee simple deed and fair market value has been paid
- 0- Parcels have been acquired by IOJ through condemnation and fair market value has been deposited with the court
- 0- Parcels have not been acquired at this time *(explain below for each parcel)*
- 0- Parcels have been acquired or have a "right of entry" but fair market value has not been paid or has not been deposited with the court *(explain below for each parcel)*
- 0- Relocatees have not been relocated from parcels , , , , , , and *(explain below for each parcel)*

Parcel #	Name/Station	Explanation for delayed acquisition, delayed relocation, or delayed payment of fair market value	Proposed date of payment or of relocation

There are -0- billboards and/or -0- cemeteries involved on this project.
 There are -0- water or monitoring wells on parcels , , , , and . All have been acquired and are the responsibility of the project contractor to close/cap.

Form Effective Date: April 1, 2006
 Last Revised: February 22, 2011

CONSENT RELEASE NOTES

Barren Co. KY 2189

Parcel 1) Jared & Tina Blankenship

10 trees to cut. Right side

Get consent

Utilities

Consent to build out slope, right side

Parcel 11) Dusty Doran Gossett

Consent to lay back slope, right side

Parcel 2) Brandon & Ashley Smith

4 trees to cut

Get consent, right side

Parcel 12) Carlos Morrison

Consent to lay back slope, left side

Parcel 3) Lena K. Estes

Get consent to clear brush and cut bank
down. Right side.

Parcel 13) David & Jennifer Reynolds

Consent about moving curve

Parcel 4) Timothy & Angela Basham

Replace 24" RCP

Remove tree at inlet, right side

Parcel 14) Kenneth Woodrow Haines Jr.

Fill in slope

Parcel 15) Dennis Hawkins

Consent to build out slope @ 389+ , left
side

Parcel 5) James Garrett

Consent and release, right side

Parcel 16)

Consent to build out slope @ 389+ , left
side

Parcel 6) Stanford Kinslow

Consent to cut slope and move fence,
left side

Parcel 17) Edward & Cecelia Arteburn

Consent to build out slope and move
fence back, left and right side

Parcel 7) Stanford Kinslow

Consent to move fence and cut bank,
left side

Parcel 8) Wilda Winger

Consent to move fence and cut trees,
left side

Parcel 9) Donnie Scoggins

Consent to cut trees and move fence,
left side

Parcel 10) Donnie Scoggins

**KENTUCKY TRANSPORTATION CABINET
COMMUNICATING ALL PROMISES (CAP)**

29 JUN 2015

Item No.	3 - 9006	Project Mgr.	kytc\Joseph.Plunk	
		County	BARREN	Route KY-2189
CAP #	Date of Promise	Promise made to:	Location of Promise	
1	30-APR-15	PARCEL 3 (COATS)		
CAP Description				
MR. COATS (PROPERTY OWNER) HAS STATED THAT HE WOULD LIKE TO HAVE A POND DUG ON HIS PROPERTY AND OFFERED THE AWARDED CONTRACTOR THE ABILITY TO GET EMBANKMENT MATERIAL FROM HIS PROPERTY.				
2	30-APR-15	PARCEL 14 (HAYNES)	LT STA 357+50 to 360+50	
CAP Description				
FILL SECTION IMPACTS A POND WITH TREES AND FENCING. THE PROPERTY OWNER HAS REQUESTED TREES BE PLANTED IN THE VICINITY FOR SHADE FOR CATTLE IN ORDER TO AGREE TO THE WORK OFF RIGHT OF WAY. BID ITEM FOR TREES INCLUDED.				

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

BARREN COUNTY
FD52 005 2189 000-006
Safety Improvements on KY 2189 from MP 0.000 to MP 6.010
SYP Item No. 3-9006.00

GENERAL PROJECT NOTE ON UTILITY PROTECTION

The Contractor is fully responsible for protection of all utilities listed

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

There are no impacts to the utilities within the project limits

The Contractor is fully responsible for protection of all utilities listed

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

There are no impacts to the utilities within the project limits

The Contractor is fully responsible for protection of all utilities listed

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

There are no impacts to the utilities within the project limits

The Contractor is fully responsible for protection of all utilities listed

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

There are no impacts to the utilities within the project limits

The Contractor is fully responsible for protection of all utilities listed

SPECIAL NOTES FOR UTILITY CLEARANCE

IMPACT ON CONSTRUCTION

BARREN COUNTY
FD52 005 2189 000-006
Safety Improvements on KY 2189 from MP 0.000 to MP 6.010
SYP Item No. 3-9006.00

SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating by contacting the various utility owners and by examining any supplemental information provided by the Cabinet and/or Utility Owner. The contractor shall determine the exact location and elevation of utilities by hand digging to expose utilities before he excavates in the area of a utility. The cost for repair and any other associated costs for any damage to utilities caused by the contractor's operations shall be borne by the contractor.

BEFORE YOU DIG

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

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

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

BARREN COUNTY
FD52 005 2189 000-006
Safety Improvements on KY 2189 from MP 0.000 to MP 6.010
SYP Item No. 3-9006.00

AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
1. Farmers Rural Electric Coop. Corp.	Chuck Bishop	270-651-2191
2. Glasgow Water Company	Scott Young	270-651-3727
3. So. Cent. Rur. Tel. Coop. Corp., Inc.	Tim Gibson	270-678-8208

KyTC BMP Plan for Project PCN ## - #####



Kentucky Transportation Cabinet

Highway District 3 (1)

And

_____ **(2), Construction**

Kentucky Pollutant Discharge Elimination System

Permit KYR10

Best Management Practices (BMP) plan

Groundwater protection plan

For Highway Construction Activities

For

Item No. 3-9006.00

Highway Safety Improvement Project on KY 2189

Barren County

Project: PCN ## - ##### (2)

KyTC BMP Plan for Project PCN ## -

Project information

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

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

Phone number: (2)
Contact: (2)
Contractors agent responsible for compliance with the KPDES permit requirements (3):
4. Project Control Number (2)
5. Route (Address) **KY 2189 Park City KY**
6. Latitude/Longitude (project mid-point) **37° 03' 08" N; -86° 00' 48" W (1)**
7. County **Barren (1)**
8. Project start date (date work will begin): (2)
9. Projected completion date: (2)

KyTC BMP Plan for Project PCN ## -

A. Site description:

1. Nature of Construction Activity: **correcting safety issues along the entire corridor of KY2189 includes new pavement, pipes, culvert extensions, ditching and shoulder work.**
2. Order of major soil disturbing activities **(2) and (3)**
3. Projected volume of material to be moved **Excavation 1775 Cubic yards and Embankment 4545 Cubic yards (1)**
4. Estimate of total project area: **45 acres (1)**
5. Estimate of area to be disturbed: **20 acres (1)**
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.(1)**
7. Data describing existing soil condition **Baxter Cherty Silt Loam 2 to 6 % slopes, Baxter Cherty Silt Loam 6 to 12 % slopes prone to erosion, Cumberland Cherty Silt Loam 2 to 6% slopes found in karst terrain moderate hazard for erosion. (1) & (2)**
8. Data describing existing discharge water quality **average (1) & (2)**
9. Receiving water name: **Sinkholes, Little Beaver Creek,& Beaver Creek (1)**
10. TMDLs and Pollutants of Concern in Receiving Waters: **(1 DEA)**
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.

KyTC BMP Plan for Project PCN ## -

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)

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.

KyTC BMP Plan for Project PCN ## -

- 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.
 - Silt Traps Type C in front of existing 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 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

KyTC BMP Plan for Project PCN ## -

- Finish Work (Paving, Seeding, Protect, etc.) – A final BMP Plan will result from modifications during this phase of construction. Probably 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
 - 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: **NONE**

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 Resident 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.

KyTC BMP Plan for Project PCN ## -

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:**

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

KyTC BMP Plan for Project PCN ## -

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 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.

KyTC BMP Plan for Project PCN ## -

- 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.
- 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 clean up 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. N/A (1)

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.

KyTC BMP Plan for Project PCN ## -

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 received KyTC Grade Level II training or other qualification as prescribed by the cabinet that includes instruction concerning sediment and erosion control.
- 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 70 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

KyTC BMP Plan for Project PCN ## -

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 form cleaning concrete trucks and equipment.
- 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);

KyTC BMP Plan for Project PCN ## - ####

_____ 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

_____ 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 PCN ## -

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 _____, _____ signature
 Typed or printed name²

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

1. Contractors 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.

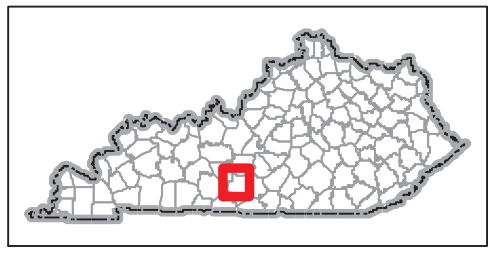


Barren County, KY 2189



Kentucky Transportation Cabinet
 200 Mero St, Suite W-5
 Frankfort, KY 40601
 Phone: (502) 564-4890

Date: 6/15/2015





GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	
00001	DGA BASE	TON	3054
00020	TRAFFIC BOUND BASE	TON	594
00078	CRUSHED AGGREGATE SIZE NO 2	① TON	1530
00100	ASPHALT SEAL AGGREGATE	TON	353
00103	ASPHALT SEAL COAT	TON	42
00190	LEVELING & WEDGING PG64-22	TON	1231
00221	CL2 ASPH BASE 0.75D PG64-22	TON	1319
00307	CL2 ASPH SURF 0.38B PG64-22	TON	3944
00440	ENTRANCE PIPE-15 IN	LF	2621
00441	ENTRANCE PIPE-18 IN	LF	109
00450	ENTRANCE PIPE-15 IN EQUIV	LF	155
00462	CULVERT PIPE-18 IN	LF	627
00464	CULVERT PIPE-24 IN	LF	296
00466	CULVERT PIPE-30 IN	LF	81
00468	CULVERT PIPE-36 IN	LF	58
00496	CULVERT PIPE-36 IN EQUIV	LF	50
01496	DROP BOX INLET TYPE 3	EA	1
02014	BARRICADE-TYPE III	EACH	2
2200	ROADWAY EXCAVATION	④ CUYD	1775
2230	EMBANKMENT IN PLACE	CUYD	4545
02237	DITCHING	LF	10335
02259	FENCE-TEMPORARY	LF	7000
02268	REMOVE & REPLACE FENCE (IN LIKE KIND)	LF	7000
02483	CHANNEL LINING CLASS II	TON	165
02562	TEMPORARY SIGNS	SQFT	459
02567	DELINEATOR POST	EACH	74
02569	DEMOBILIZATION	LS	1
02585	EDGE KEY	⑤ LF	200
02650	MAINTAIN & CONTROL TRAFFIC	LS	1
02676	MOBILIZATION FOR MILL & TEXT	LS	1
02677	ASPHALT PAVE MILLING & TEXTURING	⑥ TON	100
02690	SAFELOADING	CUYD	7
02701	TEMPORARY SILT FENCE	LF	5000
2702	SAND FOR BLOTTER	TON	58
02704	SILT TRAP TYPE "B"	EA	66
02705	SILT TRAP TYPE "C"	EA	22
02707	CLEAN SILT TRAP TYPE "B"	EA	66
02708	CLEAN SILT TRAP TYPE "C"	EA	22
02714	SHOULDERING	LF	29,725
02726	STAKING	LS	1
03269	TRIM & REMOVE TREES & BRUSH	LF	3000
05950	EROSION CONTROL BLANKET	SQYD	4600
05953	TEMP SEEDING AND PROTECTION	SQYD	70,400
05963	INITIAL FERTILIZER	TON	3.5
05964	20-10-10 FERTILIZER	TON	3.5
05985	SEEDING AND PROTECTION	SQYD	70,400
05992	AGRICULTURAL LIMESTONE	TON	3.5
06510	PAVE STRIPING-TEMP PAINT-4 IN	LF	126,800
06514	PAVE STRIPING-PERM PAINT-4 IN	LF	126,800
6567	PAVE MARKING-THERMO STOP BAR-12IN	③ LF	50
08100	CONCRETE-CLASS A	② CUYD	9
10020NS	FUEL ADJUSTMENT	DOLL	11869
10030NS	ASPHALT ADJUSTMENT	DOLL	25131
20418ED	REMOVE & RELOCATE SIGNS	EA	87
23274ENIIF	TURF REINFORCEMENT MAT 1	SQYD	100
20000ES724	TREE	⑦ EACH	6
24575ES610	CONCRETE SLOPED HDWL.	EACH	43

NOTES:

- ① FOR ROCK EMB AT EXIST POND STA. 358+50 LT.
- ② FOR ENTRANCES
- ③ TO BE INSTALLED AT R.R. CROSSING AND BEG/END OF PROJECT
- ④ 516 CU YDS OF BENCHING ADDED TO TOTAL
- ⑤ FOR BEG/END OF PROJECT, AT THE R.R. CROSSING, AND AS DIRECTED BY THE ENGINEER. NOT TO BE USED AT INTERSECTING APPROACH ROADS.
- ⑥ FOR CORRECTING SUPERELEVATION X-SLOPES
- ⑦ 3 CALIPER TREE - 16' - 18' TALL MAPLE OR POPLAR SPECIES

	Barren - KY 2189 Item No. 3-9006.00	
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Project:
Contents:
Date:

Route Name:
Classification:

	Begin M.P.	End M.P.	SQ YD	CL2 Asphalt Surface (Tons)
	0.000	6.010	70,517	3878

Bid Items:



Barren - KY 2189

Item No. 3-9006.00



Project: Highway Safety Improvement Plan
 Contents: Superelevation Improvement Summary
 Date: 6/25/2015

Route Name: Park City Glasgow F
 Classification: Rural Secondary

Bid Items: 00221 and 00190

Mile Point	X-Sec Reference	Curve #	Begin Sta.	End Sta.	Total Length	Proposed X-slope	L&W and/or Asphalt Base (Tons)
0.15	transition	1	107+36	108+22	86		3
0.16	transition	1	108+22	108+99	77		6
0.19	110+16.51	1	108+99	111+00	201	5.60%	58
0.25	112+46.82	1	111+00	115+23	423	5.60%	39
0.30	transition	1	115+23	116+00	77		6
0.31	transition	1	116+00	116+86	86		3
0.34	transition	2	117+53	118+39	86		0
0.35	transition	2	118+39	119+01	62		0
0.36	119+47.78	2	119+01	119+25	24	8.00%	0
0.38	121+11.65	2	119+25	121+00	175	8.00%	0
0.41	122+60.44	2	121+00	122+50	150	8.00%	0
0.43	transition	2	122+50	123+12	62		5
0.45	transition	2	123+12	123+98	86		3
0.51	transition	3	126+62	127+32	70		5
0.52	transition	3	127+32	128+02	70		10
0.54	127+93.02	3	128+02	128+50	48	6.00%	18
0.55	129+48.96	3	128+50	129+75	125	6.00%	30
0.58	130+69.77	3	129+75	131+78	203	6.00%	56
0.61	transition	3	131+78	132+48	70		5
0.62	transition	3-4	132+48	132+76	28		10
0.63	transition	4	132+76	133+50	74		15
0.64	133+36.16	4	133+50	134+50	100	4.90%	18
0.66	135+60.39	4	134+50	135+55	105	6.00%	68
0.68	transition	4	135+55	136+29	74		6
0.69	transition	4	136+29	137+03	74		3
0.71	transition	5	137+35	137+99	64		2
0.73	transition	5	137+99	138+64	65		3
0.74	139+27.79	5	138+64	140+00	136	6.00%	18
0.76	140+35.96	5	140+00	140+43	43	8.00%	0
0.77	transition	5	140+43	141+40	97		8
0.79	transition	6	141+40	142+37	97		20



Barren - KY 2189

Item No. 3-9006.00



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Mile Point	X-Sec Reference	Curve #	Begin Sta.	End Sta.	Total Length	Proposed X-slope	L&W and/or Asphalt Base (Tons)
0.81	142+64.70	6	142+37	143+56	119	6.00%	59
0.83	transition	6	143+56	143+89	33		3
0.84	transition	6	143+89	144+53	64		2
		7			0		0
		7			0		0
0.97	151+45.91	7	150+89	151+85	96		0
		7			0		0
		7			0		0
		8	153+46	154+32	86		4
		8	154+32	154+87	55		5
1.06	157+61.08	8	154+87	157+58	271	4.50%	58
		8	157+58	158+16	58		4
		8	158+16	158+99	83		3
	transition	9	160+20	161+06	86		7
	transition	9	161+06	161+72	66		11
1.18	162+14.39	9	161+72	163+00	128	5.10%	52
1.23	163+93.42	9	163+00	166+66	366	5.10%	120
	transition	9	166+66	167+32	66		5
	transition	9	167+32	168+18	86		3
	transition	10	171+32	171+96	64		3
	transition	10	171+96	172+61	65		5
1.38	172+98.50	10	172+61	173+00	39	6.00%	6
1.39	173+73.52	10	173+00	173+99	99	6.00%	16
	transition	10	173+99	174+64	65		5
	transition	10	174+64	175+28	64		2
	transition	11	175+78	176+64	86		8
		11	176+64	177+26	62		12
1.48	179+09.32	11	177+26	179+50	224	4.90%	87
1.52	179+84.25	11	179+50	180+63	113	4.90%	42
	transition	11	180+63	181+25	62		5
	transition	11	181+25	182+11	86		3



Barren - KY 2189

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Mile Point	X-Sec Reference	Curve #	Begin Sta.	End Sta.	Total Length	Proposed X-slope	L&W and/or Asphalt Base (Tons)
	transition	12	183+42	184+28	86		8
	transition	12	184+28	184+83	55		10
1.65	187+07.18	12	184+83	189+00	417	4.60%	139
1.70	190+03.21	12	189+00	190+86	186	4.60%	76
	transition	12	190+86	191+83	97		8
	transition	13	191+83	192+92	109		14
1.77	192+90.13	13	192+92	194+50	158	5.00%	35
1.81	195+32.12	13	194+50	196+19	169	5.10%	51
	transition	13	196+19	196+85	66		5
	transition	13	196+85	197+71	86		3
	transition	14	197+71	198+70	99		9
1.87	197+31.92	14	198+70	199+25	55		18
1.89	199+56.57	14	199+25	200+00	75	5.70%	28
1.91	200+51.51	14	200+00	202+00	200	5.70%	48
1.95	203+07.19	14	202+00	204+00	200	5.70%	44
1.97	204+46.01	14	204+00	204+10	10	4.10%	3
1.98	transition	14	204+10	204+88	78		6
1.99	transition	14	204+88	205+74	86		3
2.03	transition	15	206+73	207+43	70		3
2.04	transition	15	207+43	208+13	70		5
2.05	207+70.63	15	208+13	208+25	12	3.60%	3
2.06	208+84.11	15	208+25	209+00	75	6.00%	10
2.07	209+86.49	15	209+00	209+72	72	5.20%	29
2.08	transition	15	209+72	210+42	70		5
2.10	transition	15	210+42	211+12	70		3
2.20	transition	16	215+83	216+69	86		4
2.22	transition	16	216+69	217+54	85		8
2.23	217+88.36	16	217+54	218+06	52	6.00%	19
2.24	transition	16	218+06	218+91	85		7
2.26	transition	16	218+91	219+77	86		3
2.36	transition	17	224+01	224+81	80		2



Barren - KY 2189

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Mile Point	X-Sec Reference	Curve #	Begin Sta.	End Sta.	Total Length	Proposed X-slope	L&W and/or Asphalt Base (Tons)
2.37	transition	17	224+81	225+61	80		3
2.38	225+78.99	17	225+61	225+62	1	5.10%	0
2.39	transition	17	225+62	226+41	79		6
2.40	transition	17	226+41	227+21	80		3
2.44	transition	18	228+42	229+22	80		4
2.45	transition	18	229+22	230+02	80		9
2.47	230+33.77	18	230+02	231+00	98	6.00%	20
2.50	232+22.98	18	231+00	233+00	200	6.00%	46
2.54	234+06.97	18	233+00	235+08	208	6.00%	55
2.57	transition	18	235+08	235+88	80		6
2.58	transition	19	235+88	236+98	110		0
2.59		19	236+98	236+99	0.85		0
2.59		19	236+99	237+03	4		0
2.61	transition	19	237+03	238+74	171		0
2.66		20	240+42	241+00	58		0
2.68	241+21.05	20	241+00	241+70	70		0
2.70	transition	21	242+06	242+86	80		4
2.71	transition	21	242+86	243+66	80		8
2.73	244+33.44	21	243+66	244+75	109	6.00%	26
2.75	245+31.10	21	244+75	245+95	120	6.00%	20
2.77	transition	21	245+95	246+75	80		6
2.79	transition	21	246+75	247+56	81		3
2.80	transition	22	247+56	247+88	32		1
2.80	transition	22	247+88	248+31	43		3
2.83	250+03.02	22	248+31	250+50	219	2.60%	28
2.88	251+07.72	22	250+50	254+13	363	2.60%	66
2.92	transition	22	254+13	254+68	55		4
2.93	transition	22	254+68	255+11	43		2
2.95	transition	23	255+51	256+31	80		9
2.97	transition	23	256+31	257+11	80		19
2.98	256+95.04	23	257+11	258+00	89	5.20%	28



Barren - KY 2189

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Classification: Rural Secondary

Bid Items: 00221 and 00190

Mile Point	X-Sec Reference	Curve #	Begin Sta.	End Sta.	Total Length	Proposed X-slope	L&W and/or Asphalt Base (Tons)
3.00	259+00.94	23	258+00	258+77	77	6.00%	50
3.01	transition	23	258+77	259+57	80		6
3.03	transition	23	259+57	260+37	80		3
3.18	transition	26	267+49	268+19	70		3
3.19	transition	26	268+19	268+89	70		7
3.21	269+00.14	26	268+89	270+00	111	6.00%	31
3.23	270+61.51	26	270+00	271+05	105	6.00%	12
3.25	transition	26	271+05	271+75	70		5
3.26	transition	26	271+75	272+45	70		3
3.27	transition	27	272+45	273+08	63		2
3.28	transition	27	273+08	273+78	70		4
3.30	274+14.96	27	273+78	275+00	122	6.00%	22
3.33	276+28.25	27	275+00	276+86	186	6.00%	17
3.36	transition	27	276+86	277+56	70		5
3.37	transition	27	277+56	278+09	53		2
3.38	transition	28	278+09	278+83	74		4
3.39	transition	28	278+83	279+57	74		7
3.41	279+29.13	28	279+57	280+00	43	4.50%	8
3.42	280+48.80	28	280+00	280+74	74	6.00%	15
3.43	transition	28	280+74	281+48	74		6
3.44	transition	28	281+48	282+22	74		3
3.60	transition	31	289+92	290+66	74		3
3.62	transition	31	290+66	291+40	74		6
3.63	287+15.00	31	291+40	292+00	60		9
3.66	293+68.26	31	292+00	294+57	257	6.00%	41
3.69	transition	31	294+57	295+31	74		6
3.71	transition	31	295+31	296+05	74		3
3.85	transition	32	302+94	303+54	60		2
3.86	transition	32	303+54	304+15	61		4
3.88	304+58.61	32	304+15	305+50	135	6.00%	14
3.90	306+58.95	32	305+50	306+56	106	5.90%	17



Barren - KY 2189

Item No. 3-9006.00



Project: Highway Safety Improvement Plan
 Contents: Superelevation Improvement Summary
 Date: 6/25/2015

Route Name: Park City Glasgow F
 Classification: Rural Secondary

Bid Items: 00221 and 00190

Mile Point	X-Sec Reference	Curve #	Begin Sta.	End Sta.	Total Length	Proposed X-slope	L&W and/or Asphalt Base (Tons)
3.92	transition	32	306+56	307+17	61		5
3.93	transition	32	307+17	307+77	60		2
4.02	312+71.65		310+65	313+92	327		0
4.08	312+71.65		314+22	316+68	247		0
4.16	320+16.40		317+73	321+31	358		0
4.23	323+31.53		321+31	324+85	354		0
4.76	transition	43	351+18	351+82	64		4
4.78	transition	43	351+82	352+47	65		8
4.79	352+72.60	43	352+47	353+50	103	6.00%	16
4.80	354+20.73	43	353+50	353+80	30	3.50%	17
4.81	transition	43	353+80	354+45	65		5
4.83	transition	43	354+45	355+09	64		2
4.99	transition	45	362+90	363+76	86		3
5.00	transition	45	363+76	364+31	55		4
5.03	366+03.21	45	364+31	366+50	219	6.00%	39
5.06	367+06.43	45	366+50	367+67	117	4.60%	15
5.07	transition	45	367+67	368+22	55		4
5.09	transition	45	368+22	369+08	86		3
5.15	transition	46	371+26	372+12	86		4
5.16	transition	46	372+12	372+89	77		7
5.19	374+21.56	46	372+89	375+00	211	5.60%	30
5.22	375+35.66	46	375+00	376+48	148	5.60%	35
5.24	transition	46	376+48	377+25	77		6
5.26	transition	46	377+25	378+11	86		3
TOTAL (note: Quantity is split in half for bidding purposes)							2462
Item 00221: CL2 ASPHALT BASE 0.75D PG64-22							1231
Item 00190: LEVELING & WEDGING PG64-22							1231

	Barren - KY 2189	
Item No. 3-9006.00		

Project:
 Contents:
 Date:

Route Name:
 Classification:
 Side:

Bid Item:

Mile Point	X-Sec Reference	Curve # Reference	Begin Sta.	End Sta.	Total Length (Lin. Ft.)	Comments
0.06	102+91.00	tangent	100+50	105+00	450	
0.08	104+43.00	tangent				
0.19	110+16.51	1	107+36	116+86	950	Entire Superelavation Correction
0.24	112+47.00	1				
0.28	114+99.00	tangent				
0.30	115+82.00	tangent				
0.31	116+51.60	tangent				
0.37	119+47.78	2				
0.40	121+11.65	2	117+53	123+98	645	Entire Superelavation Correction
0.43	122+60.44	2				
0.53	127+91.86	3				
0.56	129+48.96	3	127+32	131+00	368	Entire Superelavation Correction
0.58	130+69.77	3				
0.63	133+36.16	4				
0.67	135+60.39	4	132+76	136+29	353	Per Engineers direction
0.74	139+27.79	5				
0.76	140+35.96	5	137+35	141+40	405	
0.78	141+40.65	tangent				
0.81	142+64.70	6				
0.88	146+20.00	tangent	141+40	146+00	460	Entire Superelavation Correction
0.92	148+36.37	tangent				
1.02	153+78.86	tangent	148+00	148+50	50	Pipe Location only
1.09	157+61.08	8	153+50	154+00	50	Pipe Location only
1.18	162+14.39	9	154+00	158+99	499	Entire Superelavation Correction
1.21	163+93.42	9				
1.24	165+63.00	9				
1.35	171+36.00	tangent	161+06	167+33	627	Entire Superelavation Correction
1.38	172+98.50	10				
1.40	173+73.52	10				
1.50	179+09.32	11	171+32	175+28	396	Entire Superelavation Correction
1.51	179+84.25	11				
1.65	179+84.25	11	175+78	182+11	633	Entire Superelavation Correction
1.71	187+07.29	12				
1.75	190+03.21	12	184+28	191+83	755	Entire Superelavation Correction
1.76	192+35.00	13				
1.77	192+89.02	13	191+83	206+00	1417	Entire Superelavation Correction
1.81	193+30.00	13				
1.84	195+32.12	13				
1.89	197+31.92	14				
1.90	199+56.57	14				
1.95	200+51.81	14				
1.98	203+07.19	14				
	204+46.01	14				

	<h2 style="margin: 0;">Barren - KY 2189</h2> <h3 style="margin: 0;">Item No. 3-9006.00</h3>	
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Project:
 Contents:
 Date:

Route Name:
 Classification:
 Side:

Bid Item:

Mile Point	X-Sec Reference	Curve # Reference	Begin Sta.	End Sta.	Total Length (Lin. Ft.)	Comments
2.04	207+70.63	15	206+00	208+25	225	Entire Superelavation Correction
2.05	208+42.00	15				
2.06	208+85.94	15				
2.08	209+86.49	15				
2.19	215+48.81	tangent	000+00	000+00	0	
2.23	217+88.36	16	000+00	000+00	0	
2.25	218+72.03	tangent	218+50	224+00	550	
2.38	225+78.99	17	224+00	225+88	188	Entire Superelavation Correction
2.40	226+85.33	tangent	225+88	229+62	374	
2.47	230+33.77	18	229+62	235+89	627	
2.50	232+23.02	18				
2.54	234+06.97	18				
2.61	237+96.00	tangent	241+00	241+50	50	Pipe Location only
2.67	241+21.05	tangent				
2.73	244+33.44	21	242+06	247+55	549	Entire Superelavation Correction
2.75	245+31.10	21				
2.84	250+03.02	22	248+25	254+68	643	entire Superelavation Correction
2.86	251+07.72	22				
2.97	256+95.04	23	000+00	000+00	0	
3.01	259+00.94	23				
3.08	262+46.76	tangent	262+40	262+50	10	Pipe Location only
3.20	269+00.14	26	000+00	000+00	0	
3.23	270+61.51	26				
3.30	274+14.96	27	272+38	278+67	629	entire Superelavation Correction
3.34	276+28.25	27				
3.40	279+29.13	28	000+00	000+00	0	
3.42	280+48.80	28				
3.54	287+15.00	tangent	000+00	000+00	0	
3.63	291+90.27	31	291+40	294+00	260	entire Superelavation Correction
3.67	293+71.30	31				
3.68	294+26.00	tangent	000+00	000+00	0	
3.86	303+74.00	tangent				
3.87	304+58.61	32	302+94	307+71	477	Entire Superelavation Correction
3.91	306+58.95	32				
3.91	306+67.00	32				
4.14	318+35.85	tangent	318+25	318+50	25	
4.19	321+23.00	36	000+00	000+00	0	
4.20	321+68.25	37	323+75	324+00	25	Pipe Location only
4.24	323+88.90	37				
4.56	340+79.92	tangent	340+50	341+00	50	
4.79	352+72.60	43	351+82	354+45	263	Entire Superelavation Correction
4.81	354+20.73	43				

	Barren - KY 2189	
Item No. 3-9006.00		

Project: Highway Safety Improvement Plan	Route Name: Park City Glasgow Rd.
Contents: QUANTITIES - Shouldering	Classification: Rural Secondary
Date: 6/12/2015	Side: RIGHT

Bid Item: 2714

Mile Point	X-Sec Reference	Curve # Reference	Begin Sta.	End Sta.	Total Length (Lin. Ft.)	Comments
4.83	355+28.00	tangent	000+00	000+00	0	
4.89	358+23.00	tangent				
5.04	366+03.21	45	362+90	369+08	618	Entire Superelavation Correction
5.06	367+06.43	45				
5.19	374+07.00	46	372+12	377+25	513	
5.19	374+21.56	46				
5.22	375+35.66	46				
5.32	380+65.52	tangent				
5.46	388+38.00	tangent	379+00	381+50	250	
5.48	389+35.31	tangent				
5.51	390+85.00	tangent				
5.55	393+17.00	tangent				
6.00	417+04.03	tangent				
Sub Total (right side)					14384	



Barren - KY 2189
Item No. 3-9006.00



Project: Highway Safety Improvement Plan
Contents: QUANTITIES - Shouldering
Date: 6/12/2015

Route Name: Park City Glasgow Rd.
Classification: Rural Secondary
Side: LEFT

Bid Item: 2714

Mile Point	X-Sec Reference	Curve # Reference	Begin Sta.	End Sta.	Total Length (Lin. Ft.)	Comments
0.06	102+91.00	tangent	100+50	104+43	393	
0.08	104+43.00	tangent				
0.19	110+16.51	1	107+36	111+00	364	
0.24	112+47.00	1				
0.28	114+99.00	tangent	000+00	000+00	0	
0.30	115+82.00	tangent				
0.31	116+51.60	tangent				
0.37	119+47.78	2	118+39	123+20	481	Entire Superelavation Correction
0.40	121+11.65	2				
0.43	122+60.44	2				
0.53	127+91.86	3	126+62	137+03	1041	Entire Superelavation Correction
0.56	129+48.96	3				
0.58	130+69.77	3				
0.63	133+36.16	4				
0.67	135+60.39	4				
0.74	139+27.79	5	140+00	144+53	453	Entire Superelavation Correction
0.76	140+35.96	5				
0.78	141+40.65	tangent				
0.81	142+64.70	6				
0.88	146+20.00	tangent	000+00	000+00	0	
0.92	148+36.37	tangent	148+00	148+50	50	Pipe Location only
1.02	153+78.86	tangent	153+50	154+00	50	Pipe Location only
1.09	157+61.08	8	000+00	000+00	0	
1.18	162+14.39	9	160+20	168+18	798	Entire Superelavation Correction
1.21	163+93.42	9				
1.24	165+63.00	9				
1.35	171+36.00	tangent	170+00	179+00	900	
1.38	172+98.50	10				
1.40	173+73.52	10				
1.50	179+09.32	11	000+00	000+00	0	
1.51	179+84.25	11				
1.65	187+07.29	12	186+75	187+25	50	Pipe Location only
1.71	190+03.21	12				
1.75	192+35.00	tangent	000+00	000+00	0	
1.76	192+89.02	13	191+83	197+71	588	Entire Superelavation Correction
1.77	193+30.00	13				
1.81	195+32.12	13				
1.84	197+31.92	14	197+71	205+74	803	Entire Superelavation Correction
1.89	199+56.57	14				
1.90	200+51.81	14				
1.95	203+07.19	14				
1.98	204+46.01	14				



Barren - KY 2189
Item No. 3-9006.00



Project: Highway Safety Improvement Plan
 Contents: QUANTITIES - Shouldering
 Date: 6/12/2015

Route Name: Park City Glasgow Rd.
 Classification: Rural Secondary
 Side: LEFT

Bid Item: 2714

Mile Point	X-Sec Reference	Curve # Reference	Begin Sta.	End Sta.	Total Length (Lin. Ft.)	Comments
2.04	207+70.63	15	205+74	211+12	538	Entire Superelavation Correction
2.05	208+42.00	15				
2.06	208+85.94	15				
2.08	209+86.49	15				
2.19	215+48.81	tangent	000+00	000+00	0	
2.23	217+88.36	16	215+83	219+77	394	Entire Superelavation Correction
2.25	218+72.03	tangent				
2.38	225+78.99	17	224+01	226+50	249	Entire Superelavation Correction
2.40	226+85.33	tangent	000+00	000+00	0	
2.47	230+33.77	18	232+00	232+50	50	Pipe Location only
2.50	232+23.02	18				
2.54	234+06.97	18				
2.61	237+96.00	tangent	241+00	241+50	50	Pipe Location only
2.67	241+21.05	tangent				
2.73	244+33.44	21	000+00	000+00	0	
2.75	245+31.10	21				
2.84	250+03.02	22	247+45	255+11	766	Entire Superelavation Correction
2.86	251+07.72	22				
2.97	256+95.04	23	255+11	260+37	526	Entire Superelavation Correction
3.01	259+00.94	23				
3.08	262+46.76	tangent	000+00	000+00	0	
3.20	269+00.14	26	267+49	272+45	496	Entire Superelavation Correction
3.23	270+61.51	26				
3.30	274+14.96	27	000+00	000+00	0	
3.34	276+28.25	27				
3.40	279+29.13	28	278+09	282+22	413	Entire Superelavation Correction
3.42	280+48.80	28				
3.54	287+15.00	tangent	282+22	290+00	778	
3.63	291+90.27	31	290+00	296+05	605	Entire Superelavation Correction
3.67	293+71.30	31				
3.68	294+26.00	tangent	296+05	304+00	795	
3.86	303+74.00	tangent				
3.87	304+58.61	32	000+00	000+00	0	
3.91	306+58.95	32				
3.91	306+67.00	32				
4.14	318+35.85	tangent	318+15	318+65	50	Pipe Location only
4.19	321+23.00	36	317+72	325+82	810	Entire Superelavation Correction
4.20	321+68.25	37				
4.24	323+88.90	37				
4.56	340+79.92	tangent	340+50	341+00	50	Pipe Location only
4.79	352+72.60	43	000+00	000+00	0	
4.81	354+20.73	43				





Barren - KY 2189
Item No. 3-9006.00



Project: <input type="text" value="Highway Safety Improvement Plan"/>	Route Name: <input type="text" value="Park City Glasgow Rd."/>
Contents: <input type="text" value="QUANTITIES - Shouldering"/>	Classification: <input type="text" value="Rural Secondary"/>
Date: <input type="text" value="6/12/2015"/>	Side: <input type="text" value="LEFT"/>

Bid Item:



Mile Point	X-Sec Reference	Curve # Reference	Begin Sta.	End Sta.	Total Length (Lin. Ft.)	Comments
4.83	355+28.00	tangent	358+00	360+00	200	
4.89	358+23.00	tangent				
5.04	366+03.21	45	366+00	371+26	526	
5.06	367+06.43	45				
5.19	374+07.00	46	371+26	378+11	685	
5.19	374+21.56	46				
5.22	375+35.66	46				
5.32	380+65.52	tangent	378+11	392+00	1389	
5.46	388+38.00	tangent				
5.48	389+35.31	tangent				
5.51	390+85.00	tangent				
5.55	393+17.00	tangent				
6.00	417+04.03	tangent	000+00	000+00	0	
Sub Total: (left side)					15341	

	Barren - KY 2189	
Item No. 3-9006.00		

Project: Highway Safety Improvement Plan	Route Name: Park City Glasgow Rd.
Contents: QUANTITIES - Ditching	Classification: Rural Secondary
Date: 6/12/2015	Side: LEFT

Bid Item: 02237

Beg. Mile Point	End Mile Point	Begin Sta.	End Sta.	Total Length (Lin. Ft.)	Comments
0.00	0.09	100+00	104+50	450	
0.42	0.44	122+00	123+00	100	
0.52	0.54	127+50	128+50	100	
1.17	1.21	162+00	164+00	200	
1.64	1.66	186+50	187+50	100	
1.75	1.77	192+50	193+50	100	
1.89	1.91	200+00	201+00	100	
2.22	2.39	217+00	226+00	900	
2.84	2.97	250+00	257+00	700	
3.66	3.71	293+00	296+00	300	
3.79	3.92	300+00	307+00	700	
4.19	4.24	321+00	324+00	300	
5.04	5.27	366+00	378+00	1200	
5.44	5.46	387+00	388+25	125	
Sub Total				5375	

	<h2 style="margin: 0;">Barren - KY 2189</h2> <h3 style="margin: 0;">Item No. 3-9006.00</h3>	
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Project: Highway Safety Improvement Plan	Route Name: Park City Glasgow Rd.
Contents: QUANTITIES - Ditching	Classification: Rural Secondary
Date: 6/12/2015	Side: RIGHT

Bid Item: 02237

Beg. Mile Point	End Mile Point	Begin Sta.	End Sta.	Total Length (Lin. Ft.)	Comments
0.43	0.43	122+50	122+85	35	
0.78	0.88	141+00	146+50	550	
0.91	0.93	148+00	149+00	100	
1.00	1.02	153+00	154+00	100	
1.35	1.38	171+25	173+00	175	
1.50	1.52	179+00	180+00	100	
1.75	1.91	192+50	201+00	850	
1.94	2.06	202+50	209+00	650	
2.23	2.25	218+00	219+00	100	
2.37	2.42	225+00	228+00	300	
2.67	2.88	241+00	252+00	1100	
4.09	4.20	316+00	322+00	600	
4.58	4.60	342+00	343+00	100	
5.21	5.25	375+00	377+00	200	
Sub Total:				4960	



Barren - KY 2189
Item No. 3-9006.00



Project: Highway Safety Improvement Plan
 Route Name: Park City Glasgow Rd.
 Contents: QUANTITIES - Pipes
 Classification: Rural/Secondary
 Date: 6/15/2015

Mile Point	Pipe Section	462 18" PIPE (L.F.)	464 24" PIPE (L.F.)	466 30" PIPE (L.F.)	468 36" PIPE (L.F.)	496 36" PIPE EQUIV (L.F.)	1496 DBI TYPE 3 (EACH)	CONC. SLOPED HDWL. (EA)	Channel Lining CL II (Ton)
0.00	100+00.00		108					2	6
0.08	104+43.00	75						2	6
0.19	110+16.51			81				2	7
0.53	127+93.02					50		2	7
0.92	148+36.37	42						2	6
1.02	153+78.86		53					2	6
1.65	187+07.29	41						2	6
1.76	192+89.08	41						2	6
1.90	200+51.81	41						2	6
2.06	208+85.94	45						2	6
2.50	232+23.02				58			2	7
2.67	241+21.05		44					2	6
3.08	262+46.76		41					2	6
3.67	293+71.30	40						2	9
4.14	318+35.85		50					2	6
4.24	323+88.90	42						2	6
4.56	340+79.92	43						2	6
5.31	380+58.00	47					1	1	22
5.48	389+30.00	46						2	17
5.50	390+40.00	24						2	6
5.99	416+27.20	48						2	6
Stoval Rd.	000+00.00	52						2	6
TOTALS		627	296	81	58	50	1	43	165

	<h2 style="margin: 0;">Barren - KY 2189</h2> <h3 style="margin: 0;">Item No. 3-9006.00</h3>	
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Project:
 Contents:
 Date:

Route Name:
 Classification:

		Bid Items: 440	450	441		
Mile Point	Pipe Section	15" ENTRANCE PIPE	15" EQUIV. ENTRANCE PIPE	18" ENTRANCE PIPE	LT/RT	COMMENT
0.42	122+10.00	30			RT	
0.51	127+05.00	30			RT	
0.61	132+46.00	38	38		RT	
0.69	136+28.00	42			LT	
0.77	140+64.00	38			RT	
0.94	149+50.00	33	33		RT	
0.98	151+52.00		28		RT	
1.01	153+30.00	28			RT	
1.05	155+22.00		28		RT	
1.07	156+35.00	44			LT	
1.09	157+74.00	28			RT	
1.11	158+50.00			29	RT	
1.15	160+97.00	28			RT	
1.18	162+55.00	28			RT	
1.23	164+77.00	28			RT	
1.24	165+23.00		28		LT	
1.28	167+65.00			31	RT	
1.31	169+02.00	30			RT	
1.42	174+91.00	29			RT	
1.47	177+72.00	28			LT	
1.51	179+72.00	28			RT	
1.52	180+12.00	28			LT	
1.52	180+31.00	28			RT	
1.54	181+32.00	30			RT	
1.55	181+91.00	29			LT	
1.56	182+35.00	29			RT	
1.58	183+21.00	29			LT	
1.58	183+43.00	29			RT	
1.60	184+44.00	29			RT	
1.60	184+70.00	29			LT	
1.62	185+33.00	29			RT	
1.62	185+67.00	30			RT	
1.64	186+43.00	29			LT	
1.65	187+38.00	30			LT	
1.69	189+11.00	28			RT	
1.70	189+62.00	29			RT	
1.70	189+87.00	29			LT	
1.73	191+23.00	29			LT	
1.76	192+74.00	30			LT	
1.77	193+63.00	29			RT	
1.78	194+11.00	29			LT	
1.82	196+09.00	28			LT	

Mile Point	Pipe Section	15" ENTRANCE PIPE	15" EQUIV. ENTRANCE PIPE	18" ENTRANCE PIPE	LT/RT	COMMENT
1.83	196+41.00	60			LT	
1.83	196+62.00	29			LT	
2.01	205+99.00	29			RT	
2.01	206+26.00	29			LT	
2.02	206+68.00	28			RT	
2.02	206+84.00	28			LT	
2.05	208+23.00	29			RT	
2.07	209+06.00	28			RT	
2.10	210+99.00	29			RT	
2.15	213+38.00	30			RT	
2.15	213+69.00	30			RT	
2.18	215+18.00	31			RT	
2.21	216+78.00	30			RT	
2.24	218+07.00	30			RT	
2.38	225+90.00	28			RT	
2.39	226+06.00	46			LT	
2.41	227+24.00	30			LT	
2.43	228+41.00	28			LT	
2.65	239+69.00	29			RT	
2.74	244+66.00	36			RT	
2.82	249+08.00	28			RT	
2.89	252+67.00	28			LT	
3.00	258+32.00			49	RT	
3.13	265+20.00	32			LT	
3.16	266+64.00	32			LT	
3.17	267+14.00	31			LT	
3.21	269+56.00	30			LT	
3.22	269+85.00	30			LT	
3.26	272+02.00	30			LT	
3.28	273+10.00	29			RT	
3.29	273+46.00	29			LT	
3.29	273+60.00	29			RT	
3.38	278+71.00	30			RT	
3.68	294+10.00	79			LT	
3.80	300+85.00	28			LT	
3.87	304+40.00	29			RT	
3.90	305+79.00	32			RT	
4.52	338+81.00	28			LT	
4.68	347+33.00	28			LT	
4.71	348+53.00	30			LT	
4.72	349+27.00	29			LT	
4.72	349+27.00	29			RT	
4.75	350+55.00	50			RT	
4.67	346+76.00	37			LT	
5.26	377+74.00	43			RT	
5.66	398+98.00	36			RT	
5.91	412+16.00	29			RT	

TOTALS:		2621	155	109		
		15" ENTRANCE PIPE	15" EQUIV. ENTRANCE PIPE	18" ENTRANCE PIPE		



Barren - KY 2189
Item No. 3-9006.00



Project: Highway Safety Improvement Plan

Route Name: Park City Glasgow Rd.

Contents: QUANTITIES - Entrance Pavement

Classification: Rural Secondary

Date: 6/12/2015

Mile Point	Pipe Section	Exist. Surface Type	LT/RT	Bid Items:					Traffic Bound Base
				00307	00221	0001	8100	00020	
				CL2 Asphalt Surface (Tons)	CL 2 Asphalt Base (Tons)	DGA (TONS)	Concrete Class A (CUYD)		
0.42	122+10.00	GRAVEL	RT			9		9	
0.51	127+05.00	GRAVEL	RT					9	
0.61	132+46.00	GRAVEL	RT					9	
0.69	136+28.00	GRAVEL	LT					9	
0.77	140+64.00	GRAVEL	RT					9	
0.94	149+50.00	ASPHALT	RT	3	4	9			
0.98	151+52.00	ASPHALT	RT	3	4	9			
1.01	153+30.00	ASPHALT	RT	3	4	9			
1.05	155+22.00	GRAVEL	RT					9	
1.07	156+35.00	GRAVEL	LT					9	
1.09	157+74.00	GRAVEL	RT					9	
1.11	158+50.00	GRAVEL	RT					9	
1.15	160+97.00	GRAVEL	RT					9	
1.18	162+55.00	ASPHALT	RT	3	4	9			
1.23	164+77.00	ASPHALT	RT					9	
1.24	165+23.00	GRAVEL	LT					9	
1.28	167+65.00	ASPHALT	RT	3	4	9			
1.31	169+02.00	GRAVEL	RT					9	
1.42	174+91.00	GRAVEL	RT					9	
1.47	177+72.00	GRAVEL	LT					9	
1.51	179+72.00	GRAVEL	RT					9	
1.52	180+12.00	GRAVEL	LT					9	
1.52	180+31.00	GRAVEL	RT					9	
1.54	181+32.00	GRAVEL	RT					9	
1.55	181+91.00	ASPHALT	LT	3	4	9			
1.56	182+35.00	GRAVEL	RT					9	
1.58	183+21.00	ASPHALT	LT	3	4	9			
1.58	183+43.00	ASPHALT	RT	3	4	9			
1.60	184+44.00	ASPHALT	RT	3	4	9			
1.60	184+70.00	ASPHALT	LT	3	4	9			
1.62	185+33.00	GRAVEL	RT					9	
1.62	185+67.00	GRAVEL	RT					9	
1.64	186+43.00	ASPHALT	LT	3	4	9			
1.65	187+38.00	ASPHALT	LT	3	4	9			

Mile Point	Pipe Section	Exist. Surface Type	LT/RT	CL2 Asphalt Surface	CL 2 Asphalt Base	DGA	Concrete Class A	Traffic Bound Base
1.69	189+11.00	ASPHALT	RT	3	4	9		
1.70	189+62.00	ASPHALT	RT	3	4	9		
1.70	189+87.00	ASPHALT	LT	3	4	9		
1.73	191+23.00	CONC	LT			9	9	
1.76	192+74.00	GRAVEL	LT					9
1.77	193+63.00	ASPHALT	RT	3	4	9		
1.78	194+11.00	GRAVEL	LT					9
1.82	196+09.00	ASPHALT	LT	3	4	9		
1.83	196+41.00	ASPHALT	LT	3	4	9		
1.83	196+62.00	ASPHALT	LT	3	4	9		
2.01	205+99.00	ASPHALT	RT	3	4	9		
2.01	206+26.00	GRAVEL	LT					9
2.02	206+68.00	GRAVEL	RT					9
2.02	206+84.00	GRAVEL	LT					9
2.05	208+23.00	ASPHALT	RT	3	4	9		
2.07	209+06.00	GRAVEL	RT					9
2.10	210+99.00	GRAVEL	RT					9
2.15	213+38.00	GRAVEL	RT					9
2.15	213+69.00	GRAVEL	RT					9
2.18	215+18.00	GRAVEL	RT					9
2.21	216+78.00	GRAVEL	RT					9
2.24	218+07.00	GRAVEL	RT					9
2.38	225+90.00	GRAVEL	RT					9
2.39	226+06.00	GRAVEL	LT					9
2.41	227+24.00	GRAVEL	LT					9
2.43	228+41.00	GRAVEL	LT					9
2.65	239+69.00	GRAVEL	RT					9
2.74	244+66.00	GRAVEL	RT					9
2.82	249+08.00	GRAVEL	RT					9
2.89	252+67.00	GRAVEL	LT					9
3.00	258+32.00	GRAVEL	RT					9
3.13	265+20.00	GRAVEL	LT					9
3.16	266+64.00	GRAVEL	LT					9
3.17	267+14.00	GRAVEL	LT					9
3.21	269+56.00	GRAVEL	LT					9
3.22	269+85.00	GRAVEL	LT					9
3.26	272+02.00	GRAVEL	LT					9
3.28	273+10.00	GRAVEL	RT					9
3.29	273+46.00	GRAVEL	LT					9
3.29	273+60.00	GRAVEL	RT					9
3.38	278+71.00	GRAVEL	RT					9
3.68	294+10.00	GRAVEL	LT					9
3.80	300+85.00	GRAVEL	LT					9
3.87	304+40.00	GRAVEL	RT					9
3.90	305+79.00	GRAVEL	RT					9
4.52	338+81.00	GRAVEL	LT					9

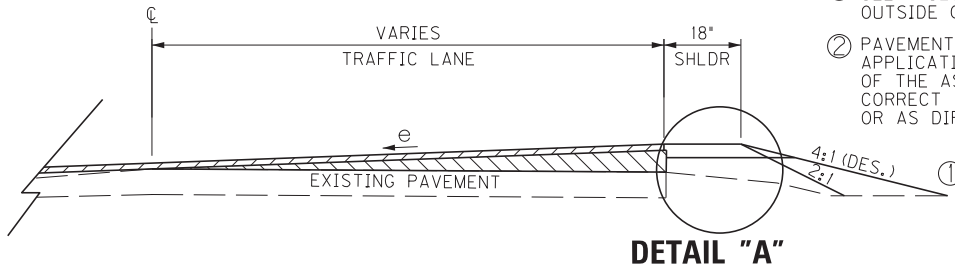
Mile Point	Pipe Section	Exist. Surface Type	LT/RT	CL2 Asphalt Surface	CL 2 Asphalt Base	DGA	Concrete Class A	Traffic Bound Base
4.68	347+33.00	GRAVEL	LT					9
4.71	348+53.00	GRAVEL	LT					9
4.72	349+27.00	GRAVEL	LT					9
4.72	349+27.00	GRAVEL	RT					9
4.75	350+55.00	ASPHALT	RT	3	4	9		
4.67	346+76.00	GRAVEL	LT					9
5.26	377+74.00	GRAVEL	RT					9
5.66	398+98.00	GRAVEL	RT					9
5.91	412+16.00	GRAVEL	RT					9
TOTALS				66	88	216	9	594

TYPICAL SECTIONS

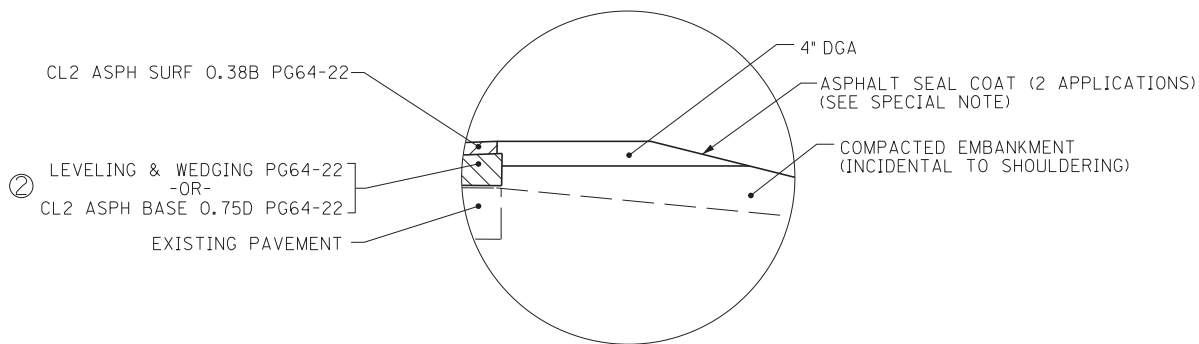
SUPERELEVATION IMPROVEMENTS

NOTES:

- ① SEE X-SECTIONS FOR SLOPES OUTSIDE OF SHOULDER
- ② PAVEMENT WEDGE: APPLICATION DEPENDENT ON THE THICKNESS OF THE ASPHALT IMPROVEMENT NEEDED TO CORRECT THE PROPOSED SUPERELEVATION OR AS DIRECTED BY THE ENGINEER.

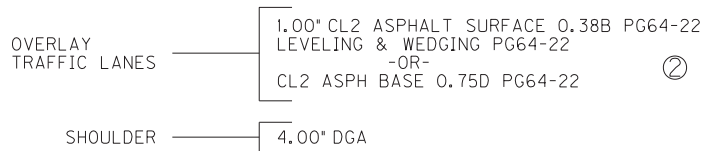


(FILL)



DETAIL "A"

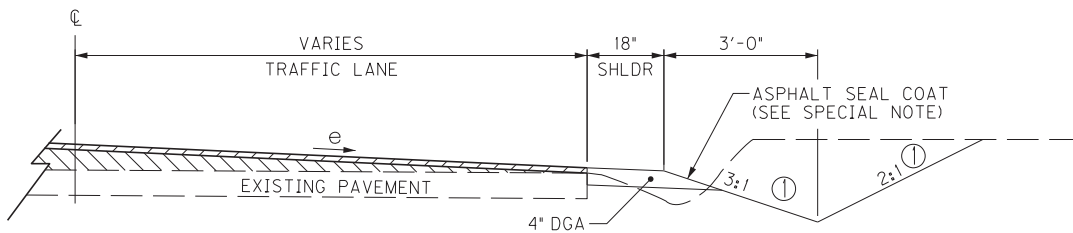
PAVEMENT SCHEDULE



FIRST COURSE:
 ASPHALT CURING SEAL (APPLY AT A RATE OF 3.2 LBS/SQ.YD.)
 ASPHALT SEAL AGGREGATE (APPLY AT A RATE OF 30 LBS/SQ.YD.)

SECOND COURSE:
 ASPHALT CURING SEAL (APPLY AT A RATE OF 2.8 LBS/SQ.YD.)
 ASPHALT SEAL AGGREGATE (APPLY AT A RATE OF 20 LBS/SQ.YD.)

NOTE: ASPHALT MATERIAL FOR TACK AS DIRECTED BY ENGINEER (INCIDENTAL)

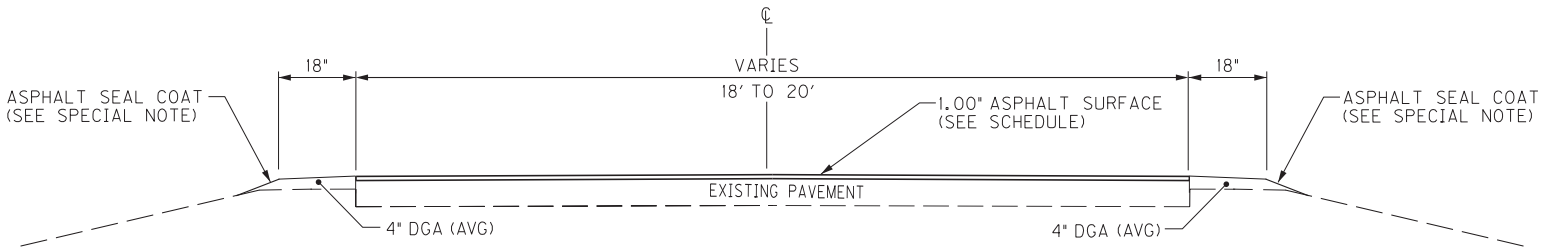


(CUT)
(V-DITCH)

N. T. S.

TYPICAL SECTIONS

MAINLINE



PAVEMENT RESURFACING MP 0.000 - 6.010

PAVEMENT SCHEDULE

SURFACE OVERLAY ——— 1.00' CL2 ASPHALT SURFACE 0.38B PG64-22

SHOULDER ——— 4.00\" DGA

FIRST COURSE:

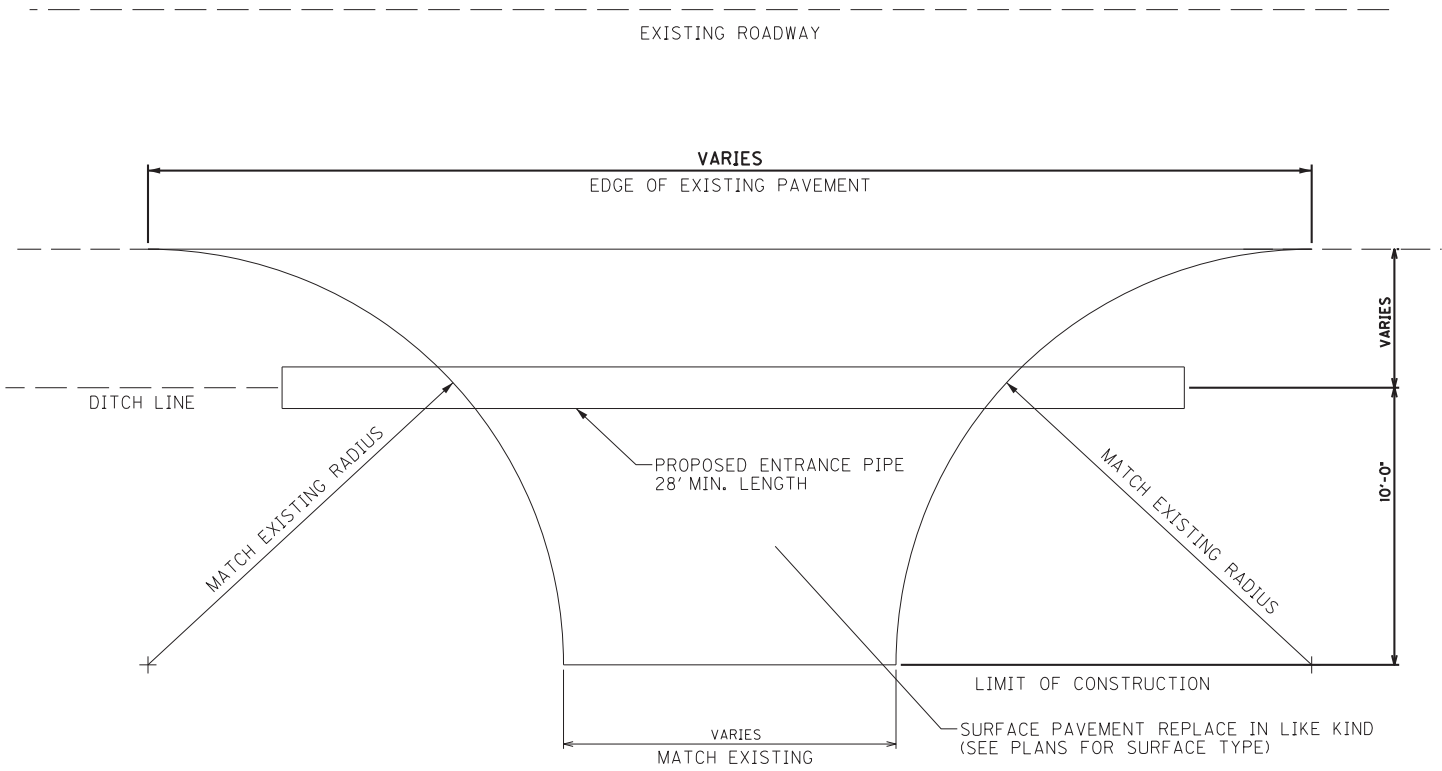
ASPHALT CURING SEAL (APPLY AT A RATE OF 3.2 LBS/SQ.YD.)
ASPHALT SEAL AGGREGATE (APPLY AT A RATE OF 30 LBS/SQ.YD.)

SECOND COURSE:

ASPHALT CURING SEAL (APPLY AT A RATE OF 2.8 LBS/SQ.YD.)
ASPHALT SEAL AGGREGATE (APPLY AT A RATE OF 20 LBS/SQ.YD.)

NOTE: ASPHALT MATERIAL FOR TACK AS
DIRECTED BY ENGINEER (INCIDENTAL)

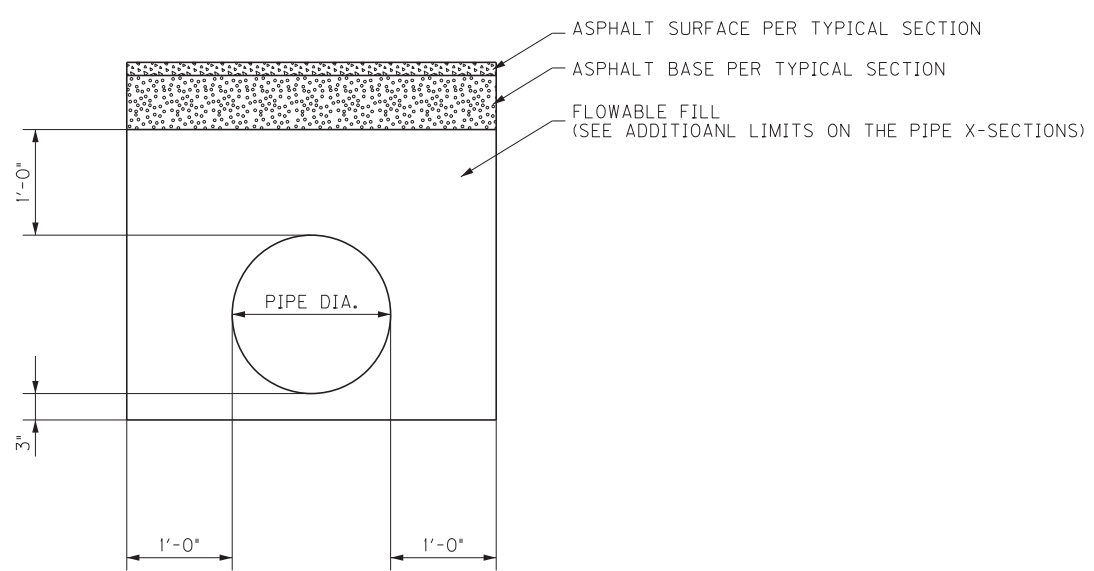
RESIDENTIAL ENTRANCE PIPE INSTALLATION DETAIL



RESIDENTIAL	1.00" CL2 ASPHALT SURFACE 0.38B PG64-22 2.00" CL2 ASPHALT BASE 0.75D PG64-22 4.00" DGA *
	- OR -
TRAFFIC BOUND BASE	4.00" TRAFFIC BOUND BASE
	- OR -
CONCRETE ENTRANCE	8.00" CONCRETE 4.00" DGA *

* THE RESIDENT ENGINEER WILL DETERMINE IF DGA BASE IS REQUIRED

CULVERT PIPE DETAIL

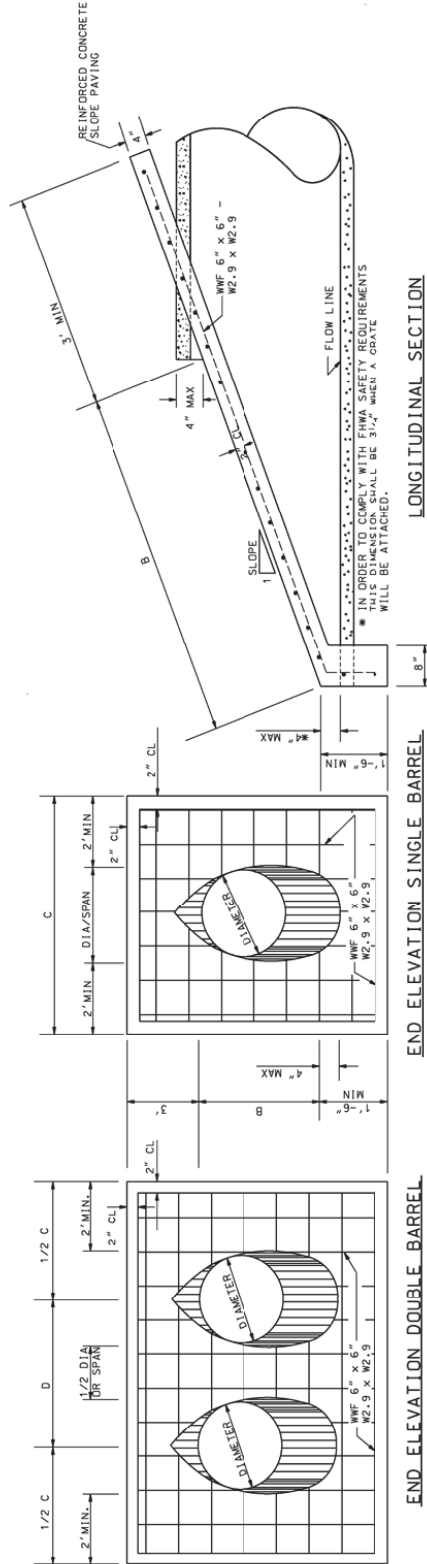


FOR INFORMATION PURPOSES ONLY

CONTRACTOR SHALL REFER TO KYTC SPECIFICATIONS FOR INSTALLATION REQUIREMENTS

ALL MATERIALS REQUIRED FOR INSTALLATION ARE INCIDENTAL TO BID ITEM, CULVERT PIPE, INCLUDING ASPHALT BASE AND FLOWABLE FILL.

MITERED SLOPED CONCRETE HEADWALL DETAILS



LONGITUDINAL SECTION

END ELEVATION SINGLE BARREL

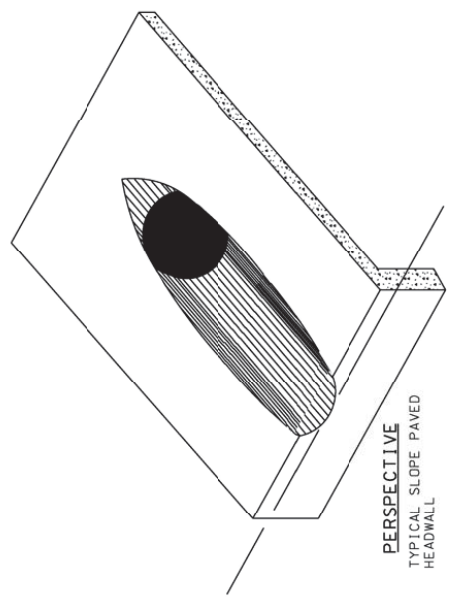
END ELEVATION DOUBLE BARREL

- GENERAL NOTES**
1. THE FILL IS TO BE PLACED AND ALL SHORING REMOVED BEFORE THE SLOPE PAVING IS PLACED.
 2. QUANTITIES SHOWN INCLUDE TWO (2) SLOPE PAVED HEADWALLS WITH TOE WALLS.
 3. DIMENSIONS AND QUANTITIES SHOWN APPLIES TO CONCRETE, CORRUGATED METAL PIPE, AND CORRUGATED HOPE PIPE. CONCRETE QUANTITIES ARE SUFFICIENT WHEN HEADWALLS FOR ARCH PIPE IS DESTRIABLE.
 4. CONCRETE PIPE SHALL BE BEVELED AFTER SLOPE PAVING HAS BEEN PLACED AND SUFFICIENTLY CURED (SOME FINISHING MAY BE NECESSARY). METAL PIPE SHALL BE SHOP CUT. CORRUGATED HOPE PIPE MAY BE FIELD BEVELED PRIOR TO PAVING OR SHOP CUT.
 5. CONTRACTOR SHALL INSURE THROUGH MECHANICAL MEANS OR OTHER APPROVED DEVICES THAT CONNECTION BETWEEN BEVELED PIPE END AND CONCRETE WILL NOT BE DETACHED. CORRUGATED HOPE PIPE SHALL HAVE 1/2" x 6" GALVANIZED HOOK BOLTS WITH WASHERS LOCATED AT 30" O.C. FOR THE TOE AND 7' x 6" GALVANIZED THROUGH HOPE HEAD BOLTS WITH WASHERS LOCATED ON 2'-0" CENTERS FOR SIDES. ANCHOR BOLTS INTO CONCRETE.
 6. SLOPE PAVED HEADWALL WITHOUT GRATE SHALL BE CLASS 1.
 7. A 24" PIPE WITH GREATER THAN A 30° SKEW AND 30" OR GREATER IN DIAMETER SHALL HAVE A CLASS 2 END TREATMENT WHEN TERMINATED WITHIN THE CLEAR ZONE.
 8. PIPE FOR GRATE SHALL BE SCHEDULE 40, GALVANIZED (ASTM A53) HARDWARE SHALL BE GALVANIZED ACCORDING TO SPECIFICATIONS.
 9. RAW METAL EXPOSED BY CUTTING AND DRILLING OF PIPE FOR GRATE ASSEMBLY WILL REQUIRE A GALVANIZING REPAIR PAINT IN ACCORDANCE WITH SECTION 855.31 OF A.L.D.O.T. SPECIFICATIONS.

N. T. S.

Mitered Sloped Headwall is bid EACH.

PIPE SIZE	DIMENSIONS AND QUANTITIES				CU. YDS.	
	AREA SQ. FT.	SLOPE	B	C	ONE BBL. ADD'L. BBL.	CU. YDS.
15"Ø	1.2	4:1	2'-5"	5'-3"	1'-11"	0.30
18"Ø	1.8	4:1	3'-6"	5'-6"	2'-3"	0.36
24"Ø	3.1	4:1	5'-6"	6'-0"	3'-0"	1.06
30"Ø	4.9	4:1	7'-7"	6'-6"	3'-9"	1.32
36"Ø	7.1	4:1	9'-8"	7'-0"	4'-6"	1.60
42"Ø	9.6	4:1	11'-9"	7'-5"	5'-3"	1.86
48"Ø	12.6	4:1	13'-9"	8'-0"	6'-0"	2.20
54"Ø	15.9	4:1	15'-10"	8'-6"	6'-9"	2.40
15"Ø	1.2	6:1	3'-7"	5'-3"	1'-11"	1.04
18"Ø	1.8	6:1	5'-1"	5'-6"	2'-3"	1.22
24"Ø	3.1	6:1	8'-1"	6'-0"	3'-0"	1.58
30"Ø	4.9	6:1	11'-2"	6'-6"	3'-9"	1.94
36"Ø	7.1	6:1	14'-2"	7'-0"	4'-6"	2.30
42"Ø	9.6	6:1	17'-3"	7'-5"	5'-3"	2.68
48"Ø	12.6	6:1	20'-3"	8'-0"	6'-0"	3.04
54"Ø	15.9	6:1	23'-4"	8'-6"	6'-9"	3.40
15"Ø	1.2	10:1	5'-10"	5'-3"	1'-11"	1.24
18"Ø	1.8	10:1	6'-4"	5'-6"	2'-3"	1.54
24"Ø	3.1	10:1	13'-5"	6'-0"	3'-0"	2.08
30"Ø	4.9	10:1	18'-5"	6'-6"	3'-9"	2.66
36"Ø	7.1	10:1	23'-5"	7'-0"	4'-6"	3.20
42"Ø	9.6	10:1	28'-6"	7'-5"	5'-3"	3.78
48"Ø	12.6	10:1	33'-6"	8'-0"	6'-0"	4.32
54"Ø	15.9	10:1	38'-6"	8'-6"	6'-9"	4.88
15"Ø	1.2	20:1	11'-9"	5'-3"	1'-11"	1.84
18"Ø	1.8	20:1	16'-8"	5'-6"	2'-3"	2.40
24"Ø	3.1	20:1	26'-8"	6'-0"	3'-0"	3.38
						1.06



COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R3



SHOULDERING (LEFT)
STA. 100+00 TO STA. 104+50
STA. 107+36 TO STA. 111+00
STA. 118+39 TO STA. 123+20
STA. 126+62 TO STA. 130+00

DITCHING (LEFT)
STA. 100+00 TO STA. 104+50
STA. 122+00 TO STA. 123+00
STA. 127+50 TO STA. 128+50

CONSTRUCT 12 DELINEATOR POSTS FOR
HORIZONTAL CURVE #3 @ A SPACING OF 100 FT.

CURVE #3
P.I. STA. 130+10.60
 Δ = 56°50'51.27"RT
T = 243.56'
L = 446.48'
E = 450.00'
E = 614.69'

CONSTRUCT 12 DELINEATOR POSTS FOR
HORIZONTAL CURVE #2 @ A SPACING OF 100 FT.

CURVE #2
P.I. STA. 120+89.06
 Δ = 28°00'30.66"LT
L = 418.95'
R = 500.00'
E = 47.34'

CURVE #1
P.I. STA. 114+83.52
 Δ = 32°42'03.79"LT
L = 638.43'
R = 1500.11'
E = 36.62'

DITCHING (RIGHT)
STA. 122+50 TO STA. 122+85.35

SHOULDERING (RIGHT)
STA. 100+50 TO STA. 105+00
STA. 107+36 TO STA. 108+86
STA. 117+53 TO STA. 123+98
STA. 127+36 TO STA. 130+00

STA. 100+00 - STA. 130+00
KY 2189

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	95



SHOULDERING (LEFT)
 STA. 130+00 TO STA. 137+03
 STA. 137+03 TO STA. 148+50
 STA. 148+50 TO STA. 154+00
 STA. 153+50 TO STA. 154+00

SEE CROSS SECTIONS FOR EARTHWORK
 QUANTITIES FROM STA. 140+50 TO STA. 146+50

SHOULDERING (RIGHT)
 STA. 130+00 TO STA. 131+00
 STA. 132+76 TO STA. 136+29
 STA. 141+40 TO STA. 146+00
 STA. 148+00 TO STA. 148+50
 STA. 153+50 TO STA. 154+00
 STA. 154+00 TO STA. 158+99

DITCHING (RIGHT)
 STA. 141+00 TO STA. 146+50
 STA. 148+00 TO STA. 149+00
 STA. 153+00 TO STA. 154+00

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R7



SHOULDERING (LEFT)
STA. 160+00 TO STA. 168+18
STA. 170+00 TO STA. 179+00
STA. 186+75 TO STA. 187+25

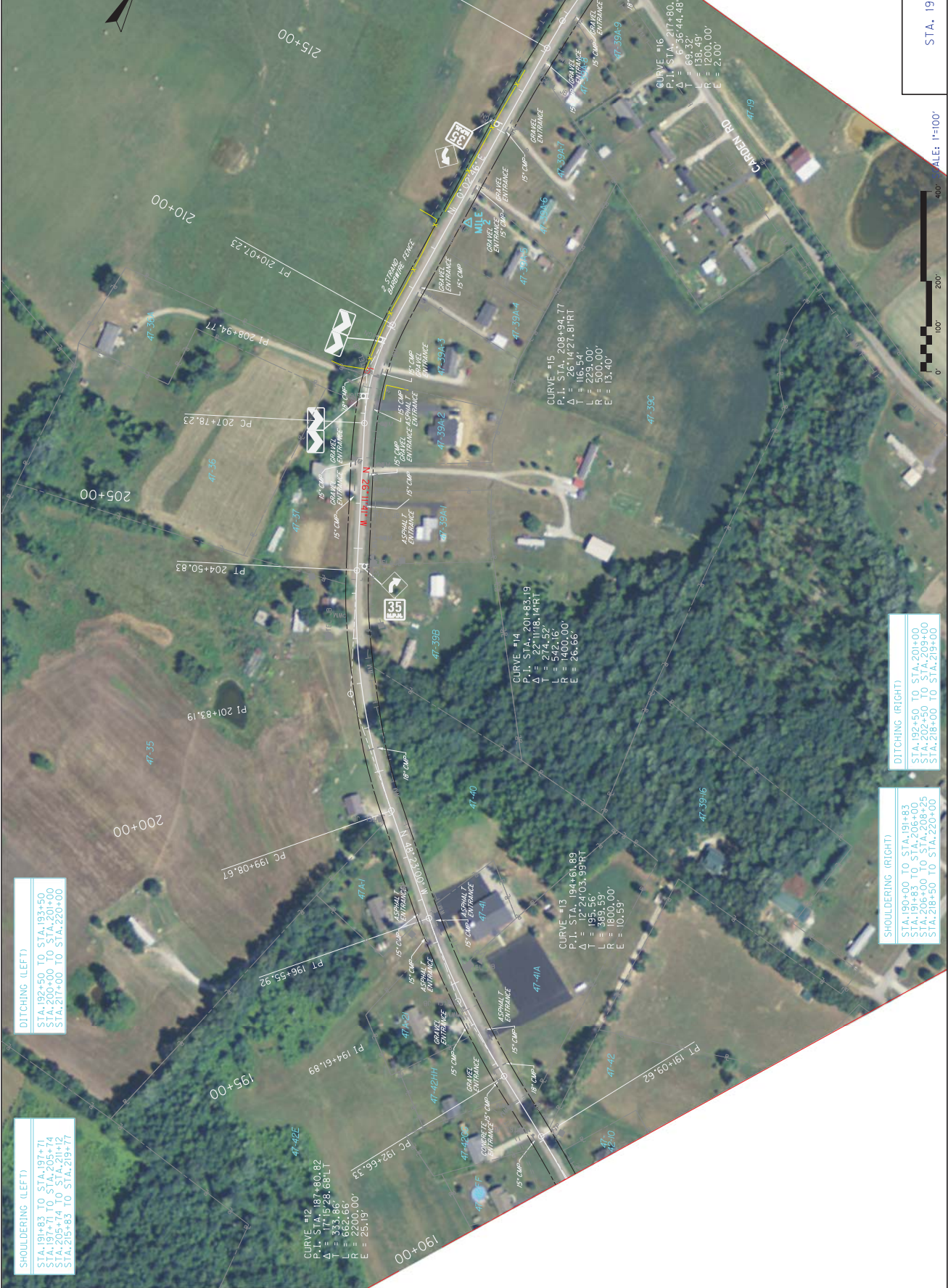
SEE CROSS SECTIONS FOR EARTHWORK QUANTITIES FROM STA. 169+00 TO STA. 176+50

DITCHING (LEFT)
STA. 162+00 TO STA. 164+00
STA. 182+50 TO STA. 187+50

SHOULDERING (RIGHT)
STA. 161+06 TO STA. 167+33
STA. 171+52 TO STA. 175+28
STA. 184+28 TO STA. 190+00

DITCHING (RIGHT)
STA. 174+25 TO STA. 173+00
STA. 179+00 TO STA. 180+00

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R9



SHOULDERING (LEFT)
 STA.191+83 TO STA.197+71
 STA.197+71 TO STA.205+74
 STA.205+74 TO STA.201+00
 STA.205+83 TO STA.219+71

DITCHING (LEFT)
 STA.192+50 TO STA.193+50
 STA.200+00 TO STA.201+00
 STA.217+00 TO STA.220+00

SHOULDERING (RIGHT)
 STA.199+00 TO STA.191+83
 STA.191+83 TO STA.206+00
 STA.206+00 TO STA.209+00
 STA.218+50 TO STA.220+00

DITCHING (RIGHT)
 STA.192+50 TO STA.201+00
 STA.202+50 TO STA.209+00
 STA.218+00 TO STA.219+00

SHEET NO.	RII
ITEM NO.	3-9006
COUNTY OF	BARREN



SHOULDERING (LEFT)
STA. 224+01 TO STA. 226+50
STA. 231+00 TO STA. 241+50
STA. 247+45 TO STA. 250+00

DITCHING (LEFT)
STA. 220+00 TO STA. 226+00

SHOULDERING (RIGHT)
STA. 220+00 TO STA. 224+00
STA. 224+00 TO STA. 225+88
STA. 225+88 TO STA. 229+82
STA. 229+82 TO STA. 235+82
STA. 235+82 TO STA. 241+50
STA. 242+06 TO STA. 247+55
STA. 248+25 TO STA. 250+00

DITCHING (RIGHT)
STA. 225+00 TO STA. 228+00
STA. 241+00 TO STA. 250+00

KY 2189
STA. 220+00 - STA. 250+00

SHEET NO.	ITEM NO.	COUNTY OF
R13	3-9006	BARREN

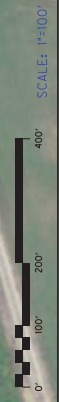


SHOULDERING (LEFT)
STA. 250+00 TO STA. 255+11
STA. 257+49 TO STA. 262+50
STA. 267+48 TO STA. 272+45
STA. 278+03 TO STA. 280+00

DITCHING (LEFT)
STA. 250+00 TO STA. 257+00

SHOULDERING (RIGHT)
STA. 250+00 TO STA. 254+68
STA. 257+40 TO STA. 262+50
STA. 272+38 TO STA. 278+67

DITCHING (RIGHT)
STA. 250+00 TO STA. 252+00



COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R15



DITCHING (LEFT)
STA. 293+00 TO STA. 296+00
STA. 300+00 TO STA. 307+00

SHOULDERING (LEFT)
STA. 280+00 TO STA. 282+22
STA. 282+22 TO STA. 290+00
STA. 296+00 TO STA. 304+00

SHOULDERING (RIGHT)
STA. 294+40 TO STA. 294+00
STA. 302+94 TO STA. 307+11

SCOOGINS REMOVE & REPLACE 250 LF. OF FENCE, REPLACE WITH LIKE KIND, WITH 10' WIDE BUFFER. EMP-FENCE PER ENGINEER'S DIRECTION

CONSENT TO CUT TREES & MOVE FENCE BACK 3 FEET

CONSTRUCT TO DELINEATOR POSTS FOR HORIZONTAL CURVE #32 @ A SPACING OF 100 FT.

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R17



MicroStation v8.11.7.443 E-SHEET NAME: USFR mtylor DATE PLOTTED: June 22, 2015 FILE NAME: Y:\KYTC 2014\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\103-PLANS&REPORT\153-3-9006 R17 PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R19



SHOULDERING (LEFT)
STA. 340+50 TO STA. 341+00
STA. 348+00 TO STA. 360+00
STA. 366+00 TO STA. 370+00

DITCHING (LEFT)
STA. 366+00 TO STA. 370+00

SEE CROSS SECTIONS FOR EARTHWORK QUANTITIES FROM STA. 358+00 TO STA. 361+00

SEE CROSS SECTIONS FOR EARTHWORK QUANTITIES FROM STA. 362+50 TO STA. 365+00

CONSTRUCT 14 DELINEATOR POSTS FOR HORIZONTAL CURVE #43 @ A SPACING OF 50 FT.

CONSTRUCT 14 DELINEATOR POSTS FOR HORIZONTAL CURVE #45 @ A SPACING OF 100 FT.

REMOVE TREES AND BUSHES PER ENGINEERS DIRECTION

REMOVE TREES AND BUSHES PER ENGINEERS DIRECTION

CAUTION: DO NOT CUT TREES ALONG FENCE

SHOULDERING (RIGHT)
STA. 340+50 TO STA. 341+00
STA. 351+82 TO STA. 354+45
STA. 362+50 TO STA. 369+08

SHEET NO.	B21
ITEM NO.	3-9006
COUNTY OF	BARREN

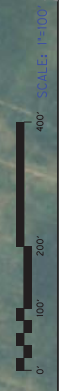


SHOULDERING (LEFT)
STA. 370+00 TO STA. 371+26
STA. 371+26 TO STA. 378+11
STA. 378+11 TO STA. 382+00

DITCHING (LEFT)
STA. 370+00 TO STA. 378+00
STA. 387+00 TO STA. 388+25

SHOULDERING (RIGHT)
STA. 372+00 TO STA. 377+25
STA. 379+00 TO STA. 381+50

DITCHING (RIGHT)
STA. 375+00 TO STA. 377+00



KY 2189
STA. 370+00 - STA. 400+00

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R23

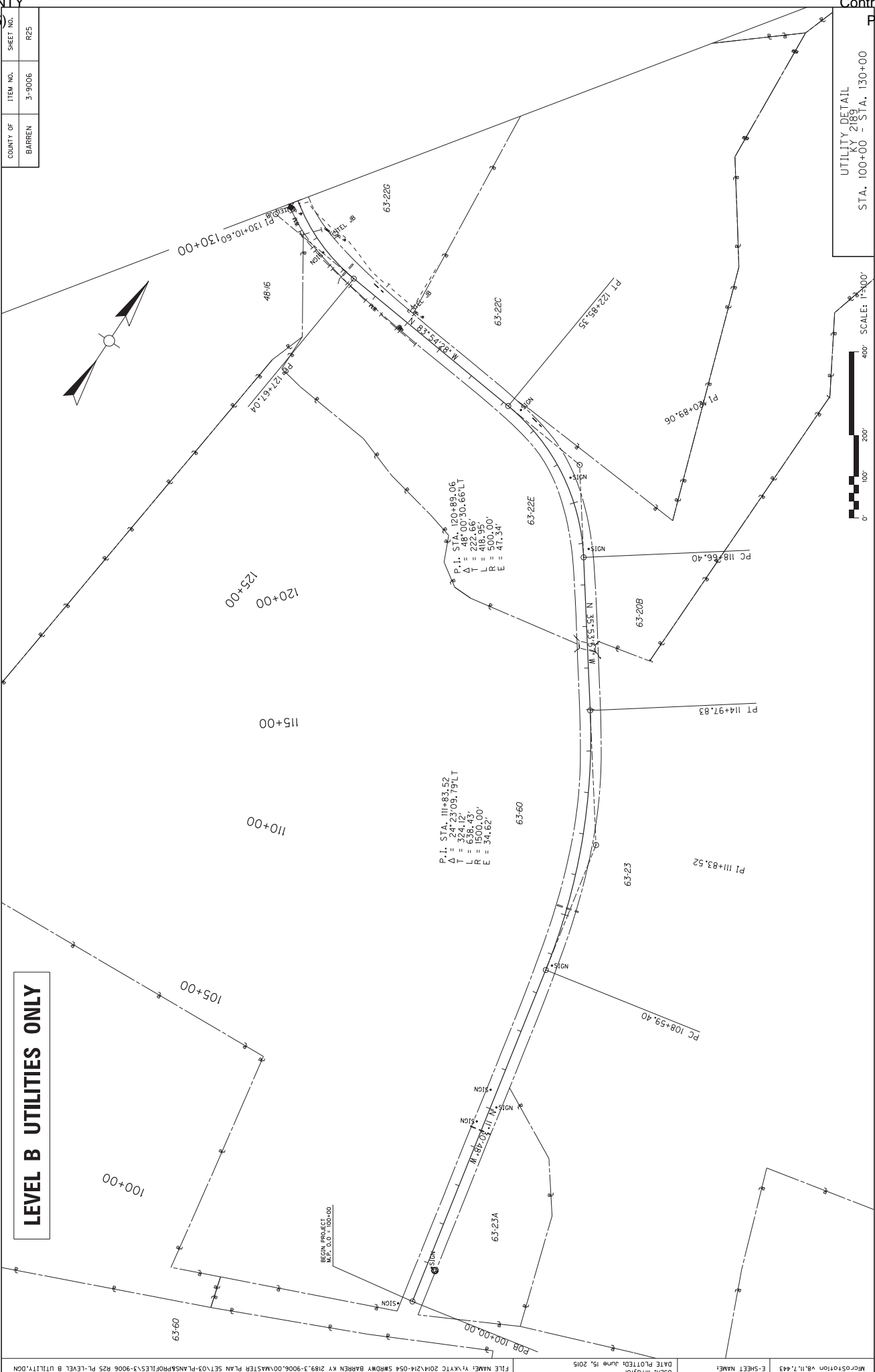


MicroStation v8.11.7.443
 E-SHEET NAME:
 DATE PLOTTED: June 22, 2015
 USER: mtylor
 FILE NAME: Y:\K\TC 20\4214-054 SMDRY BARREN KY 2189-3-9006-00\MASTER PLAN SET\03-PLANS&PROFILES\3-9006 R23 PL.DGN

KY 2189
 STA. 400+00 - STA. 417+00

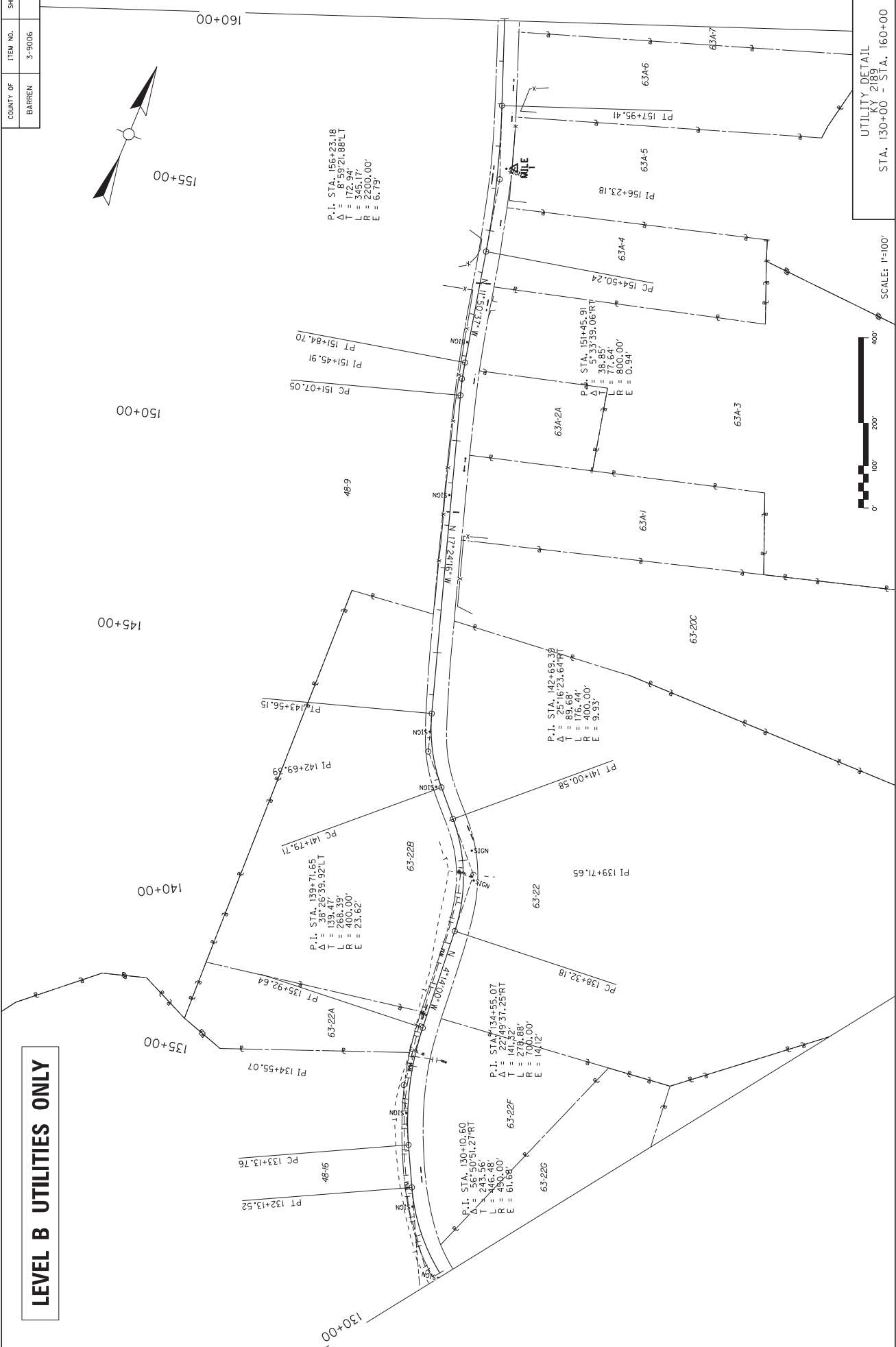
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R25

LEVEL B UTILITIES ONLY

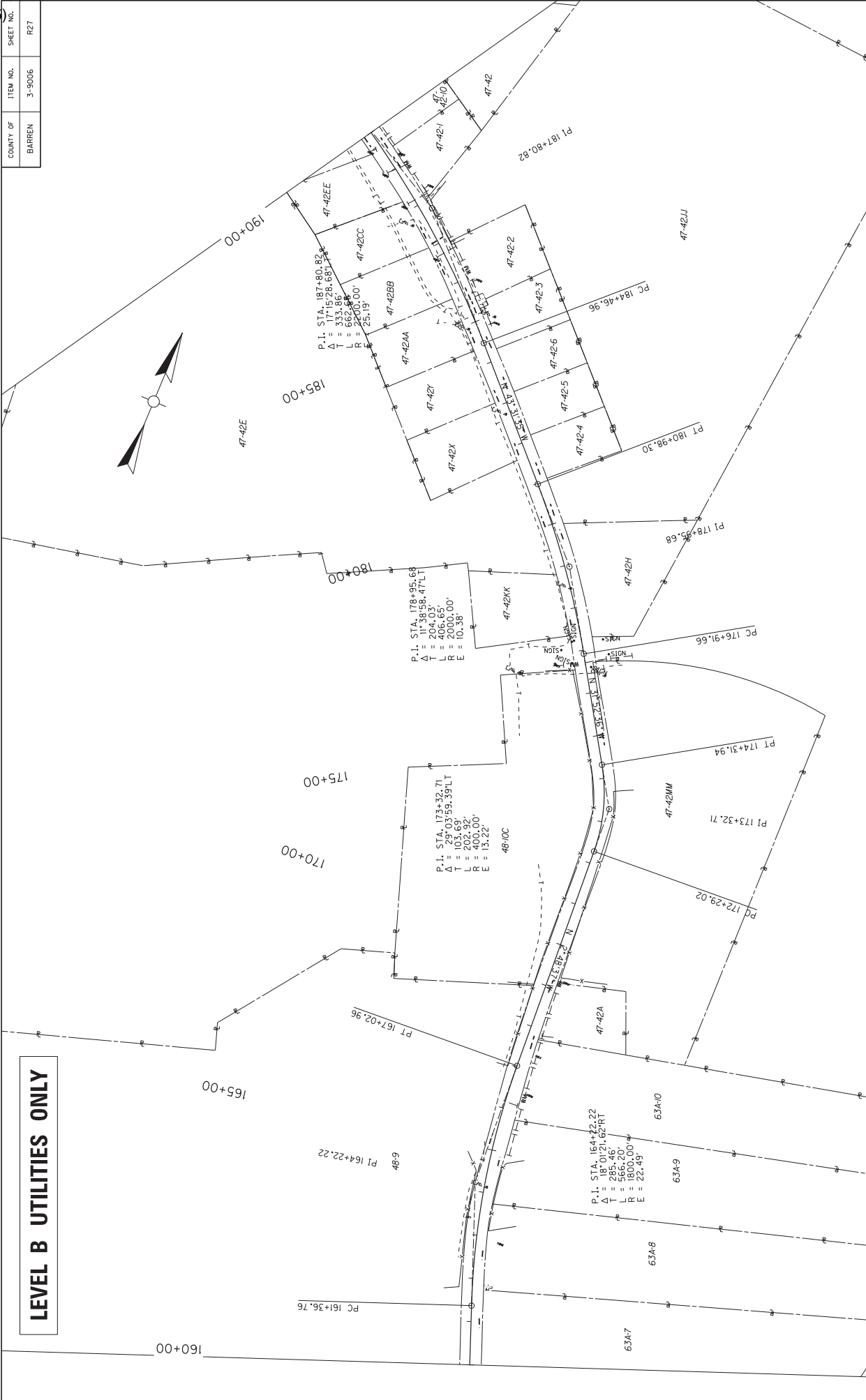


COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R26

LEVEL B UTILITIES ONLY



COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R27



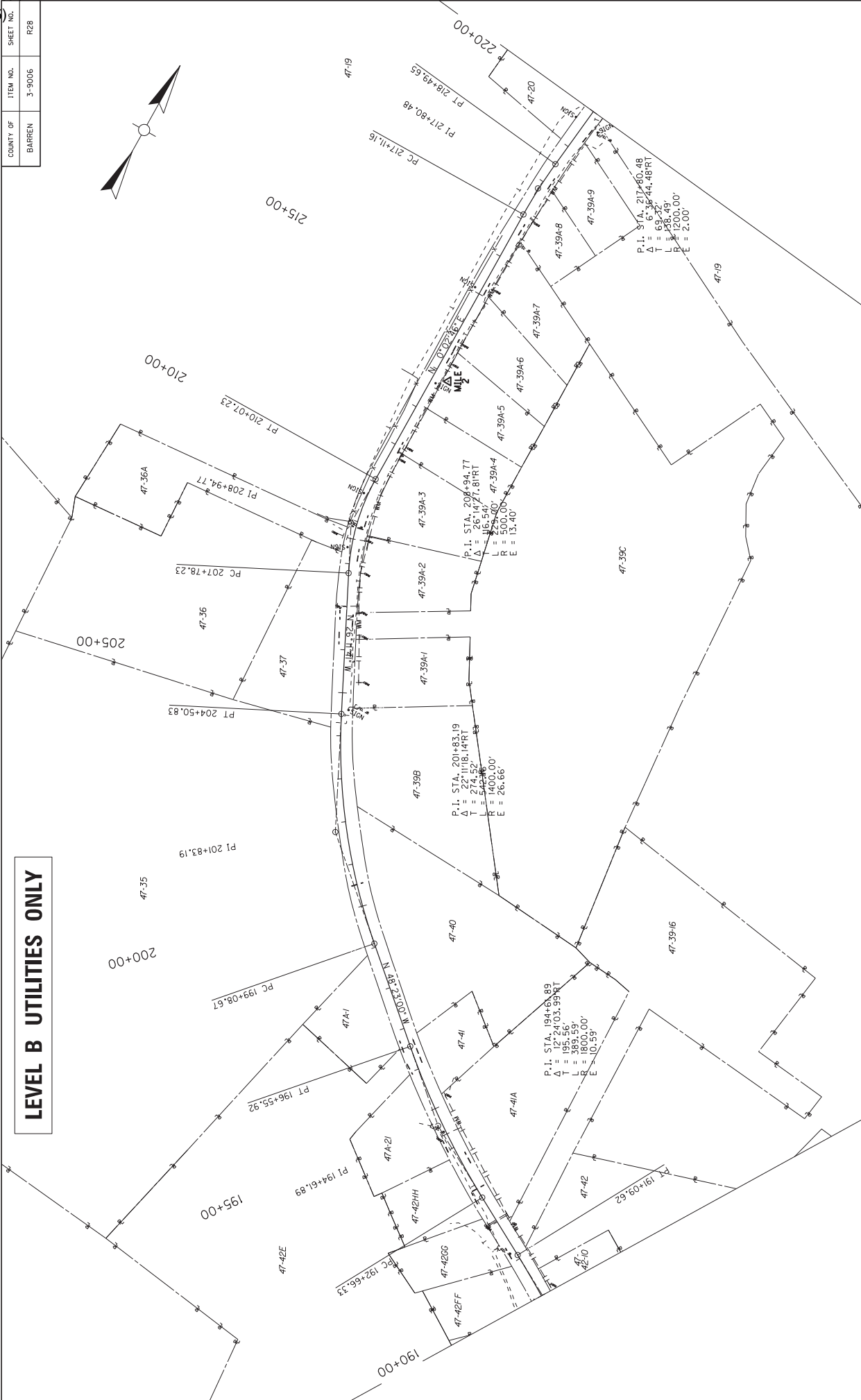
LEVEL B UTILITIES ONLY

UTILITY DETAIL
KY 2189
STA. 160+00 - STA. 190+00



COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R28

LEVEL B UTILITIES ONLY

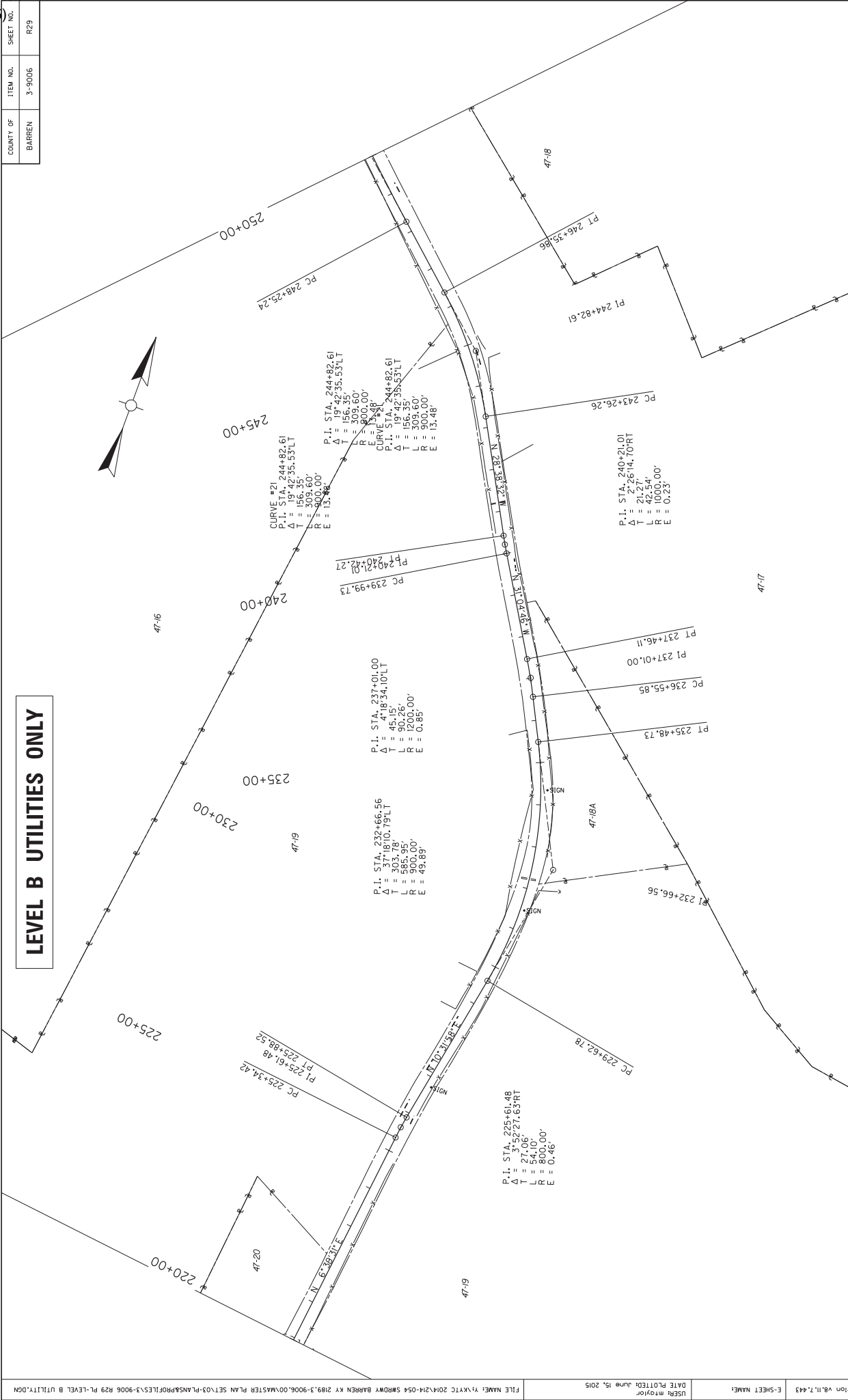


UTILITY DETAIL
KY 2189
STA. 190+00 - STA. 220+00

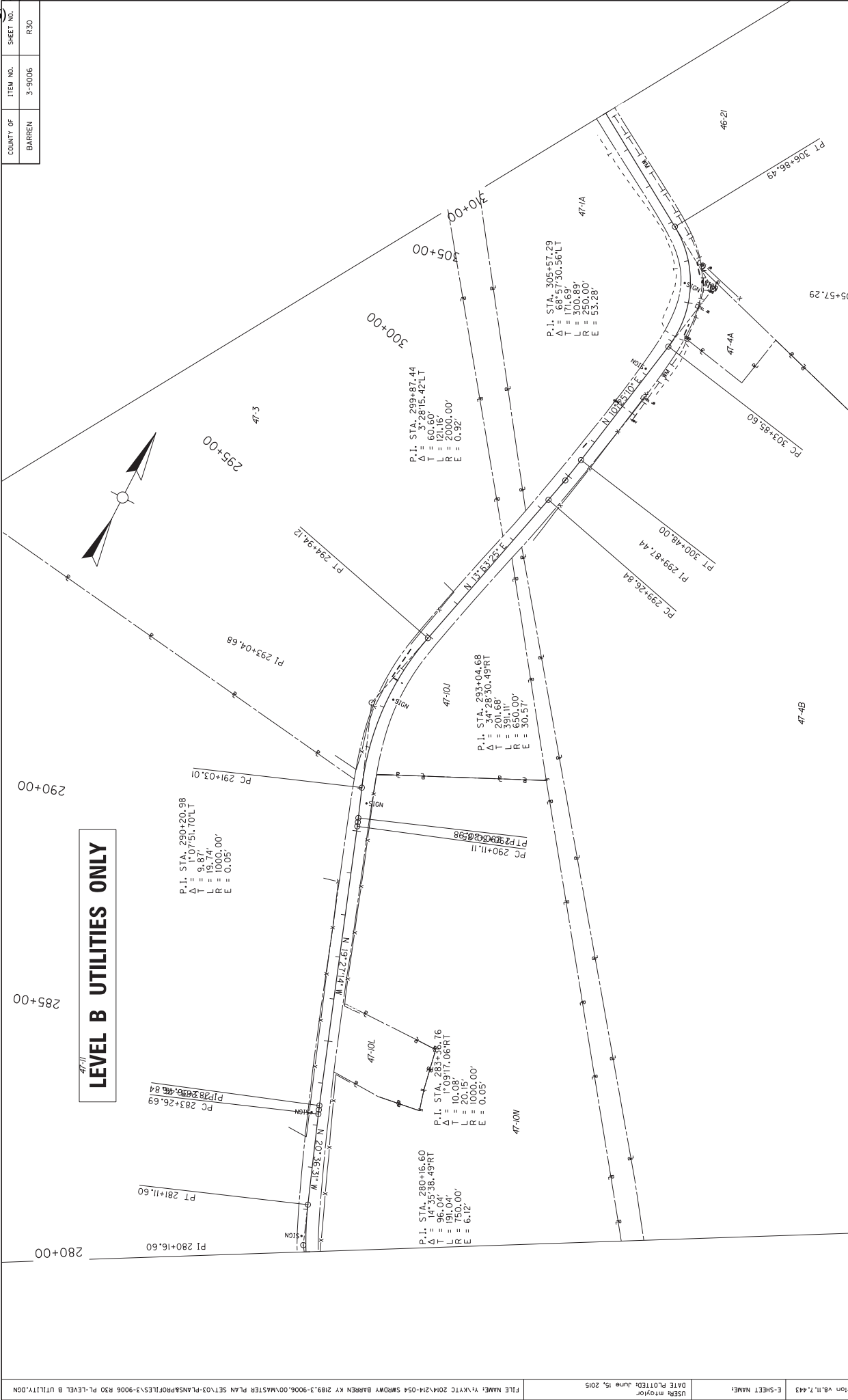


COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R29

LEVEL B UTILITIES ONLY

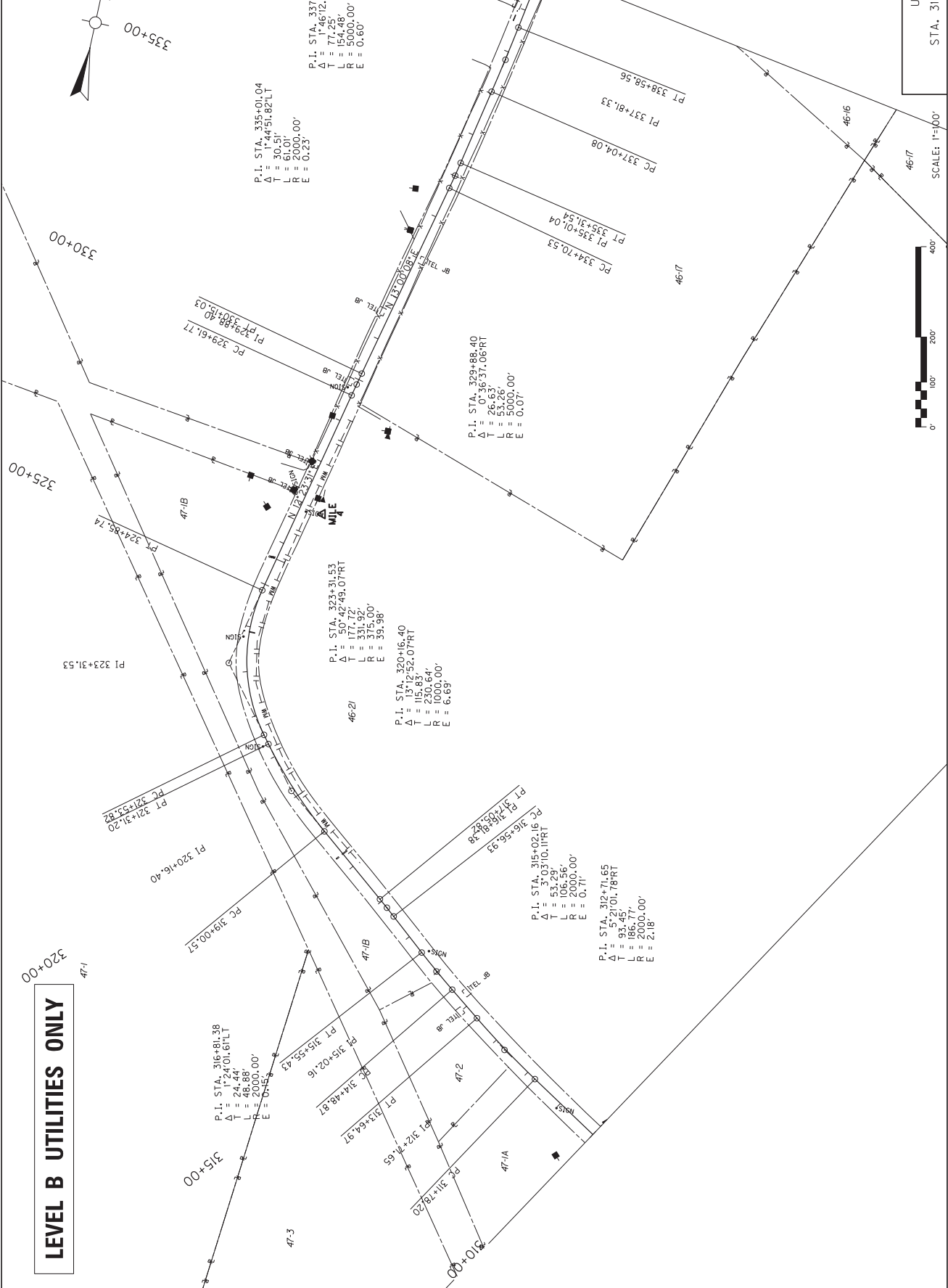


COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R30



UTILITY PLAN
KY 2189
STA. 280+00 - 310+00
SCALE: 1"=100'

SHEET NO.	ITEM NO.	COUNTY OF
B31	3-9006	BARREN



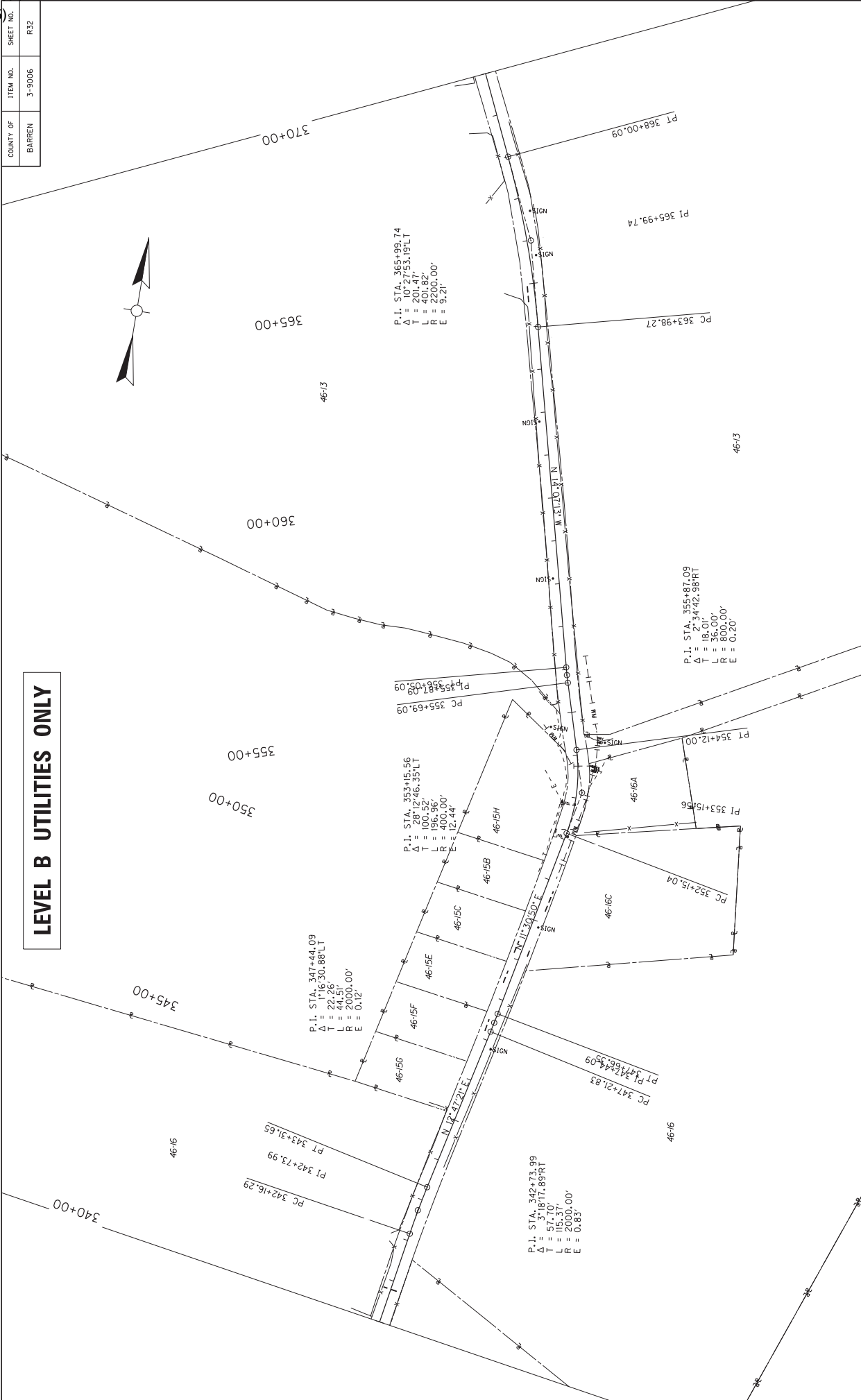
LEVEL B UTILITIES ONLY



UTILITY DETAIL
KY 2189
STA. 310+00 - STA. 340+00
SCALE: 1"=100'

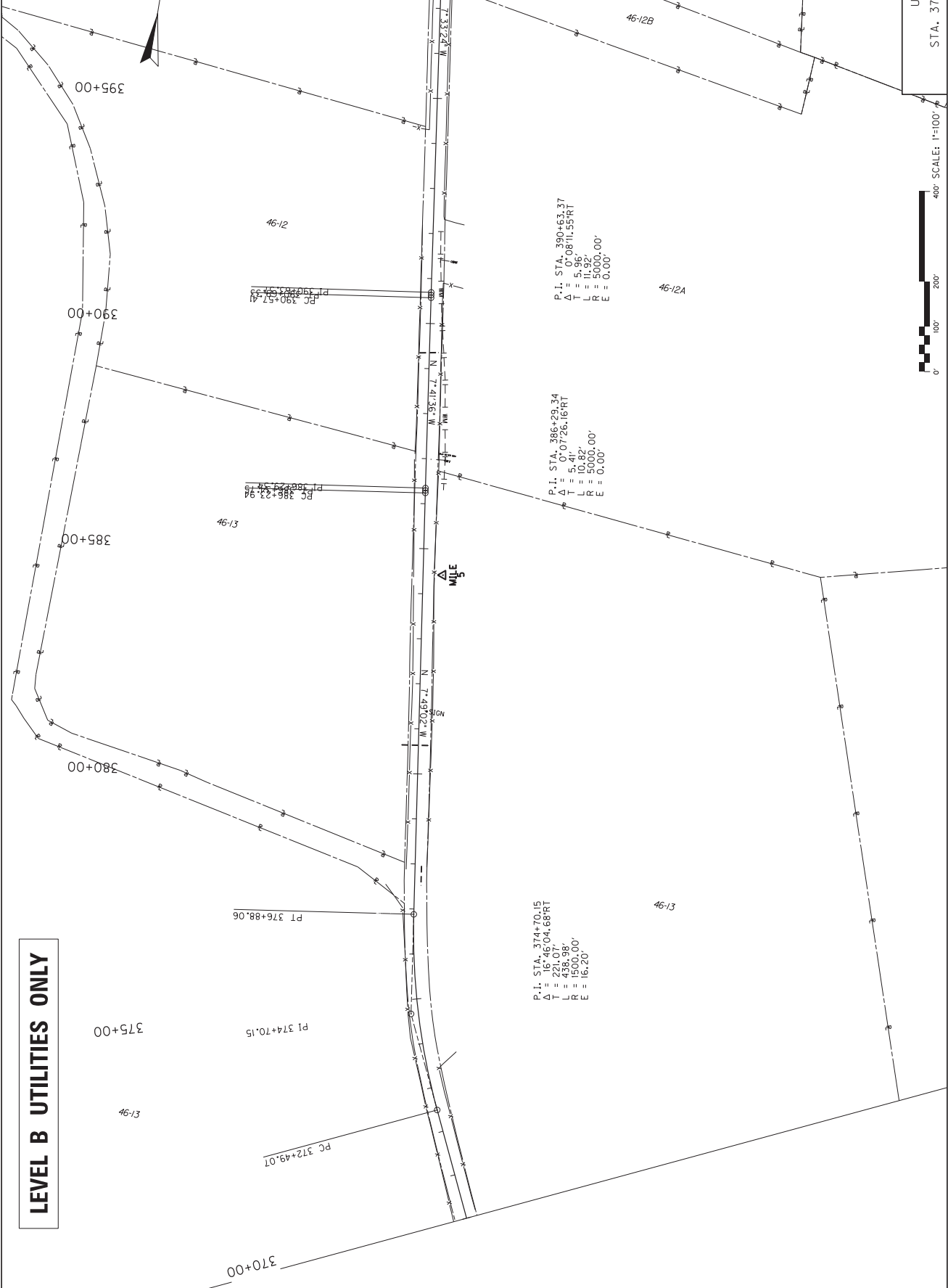
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R32

LEVEL B UTILITIES ONLY

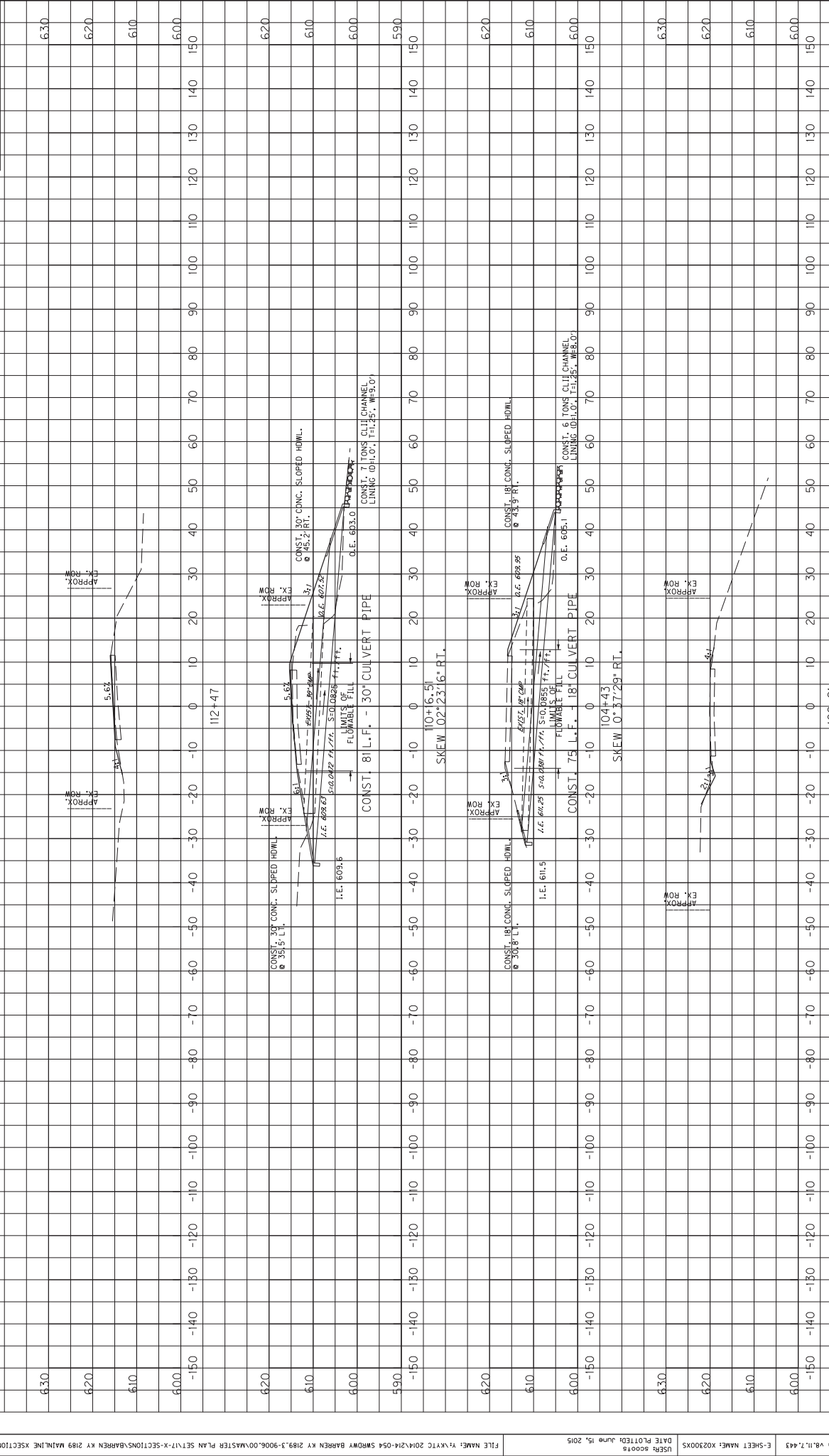


UTILITY DETAIL
KY 2189
STA. 340+00 - STA. 370+00

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	R33



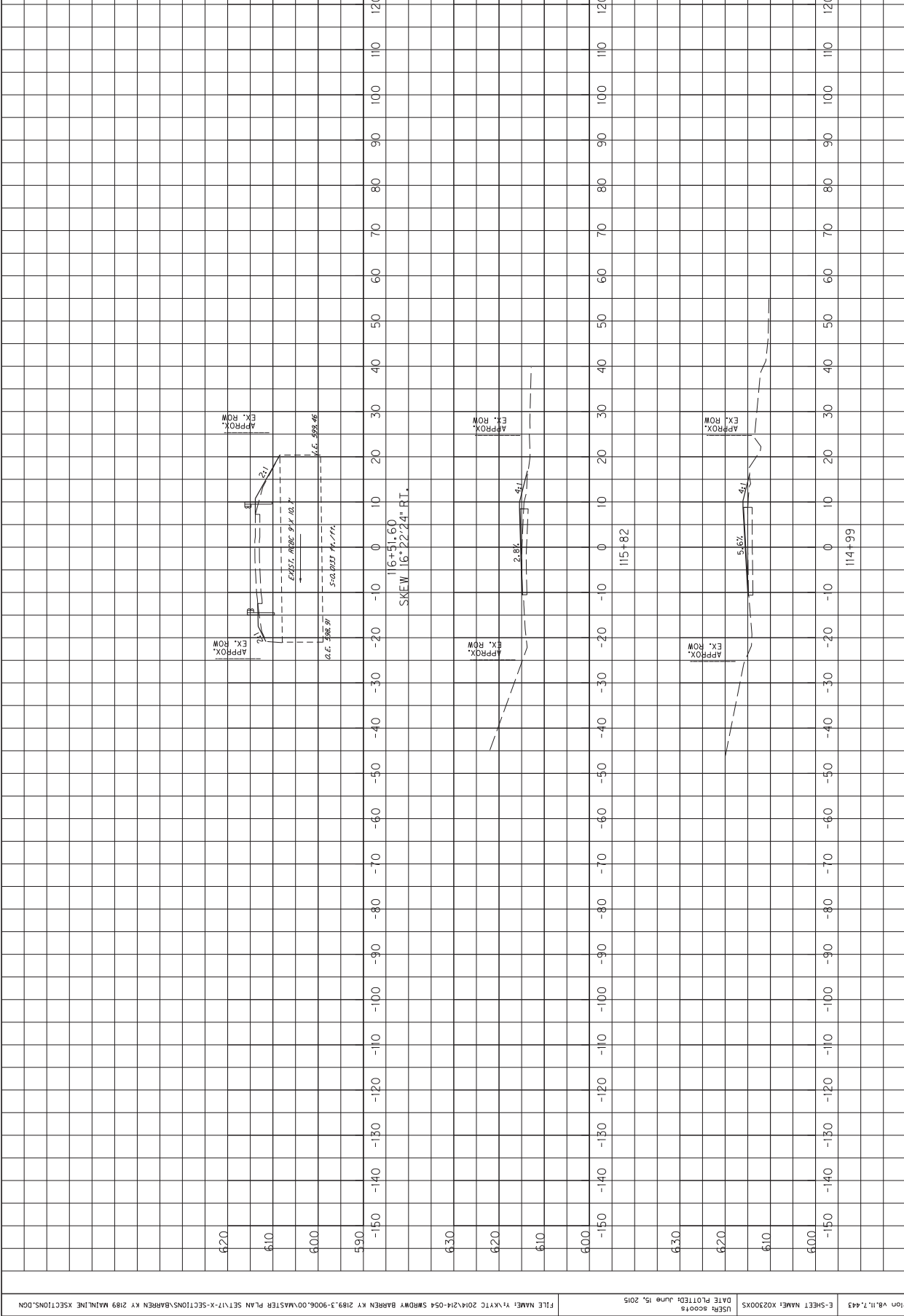
COUNTY OF	BARREN
ITEM NO.	3-9006
SHEET NO.	XI



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

MAINLINE
STA. 102+91 TO STA. 112+47

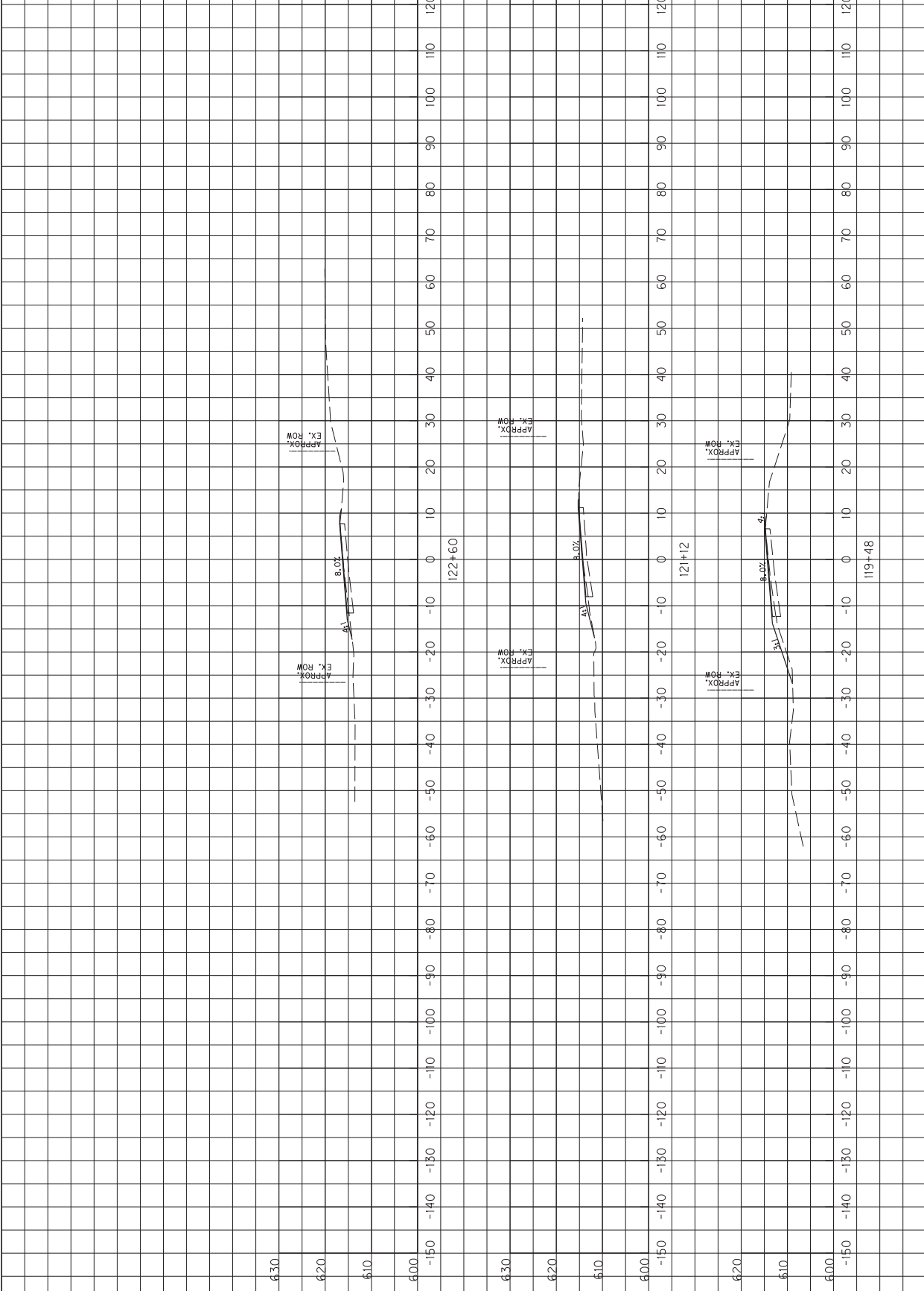
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X2



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

MAINLINE
STA. 114+99 TO STA. 116+51.60

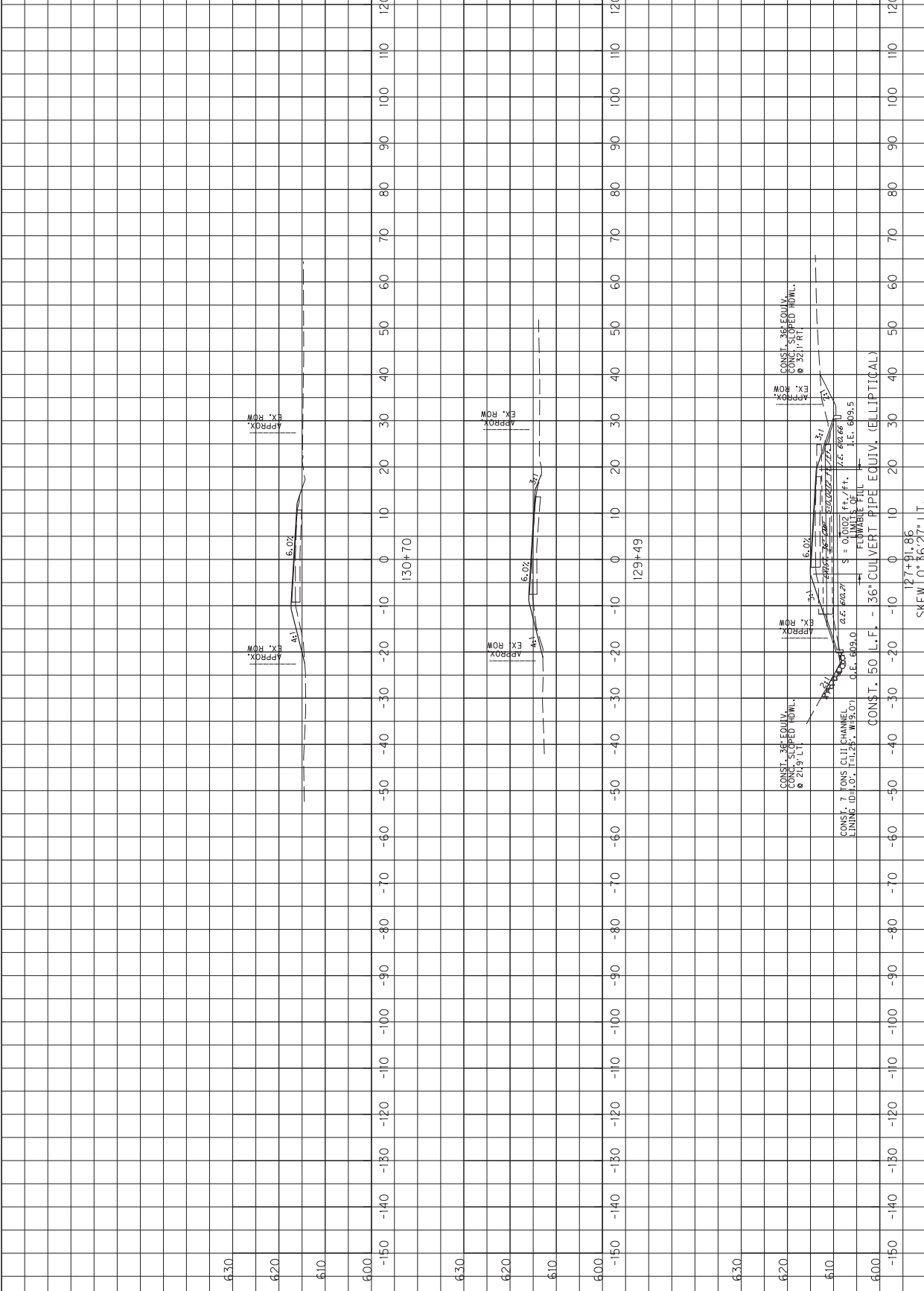
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X3



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

MAINLINE
STA. 119+48 TO STA. 122+60

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X4



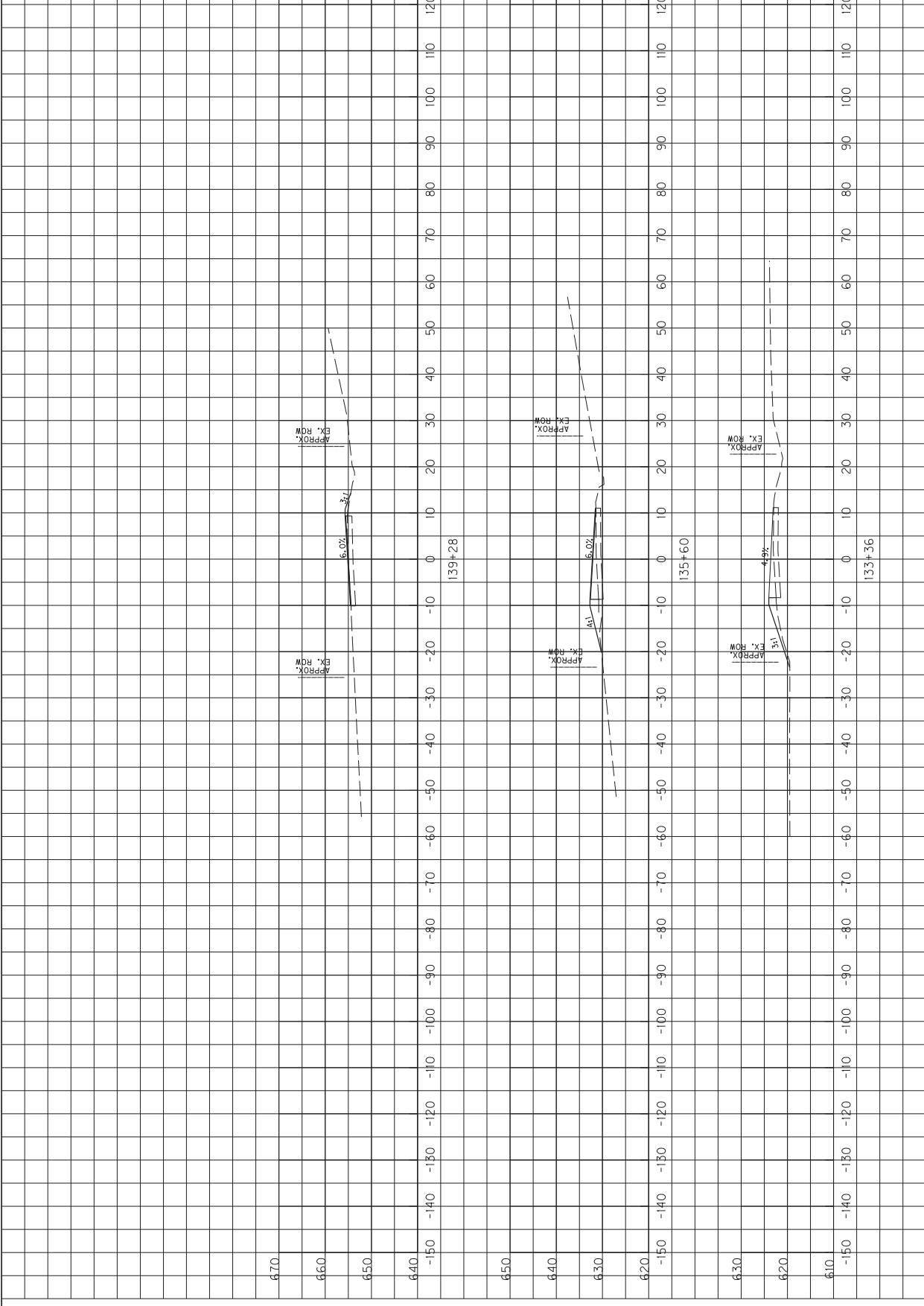
MicroStation v8.1i.7.443
 E-SHEET NAME: X02300X5
 USFR3 SCOOT3
 DATE PLOTTED: June 15, 2015
 FILE NAME: Y:\KRYC 2014\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

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

MAINLINE
 STA. 127+91.86 TO STA. 130+70

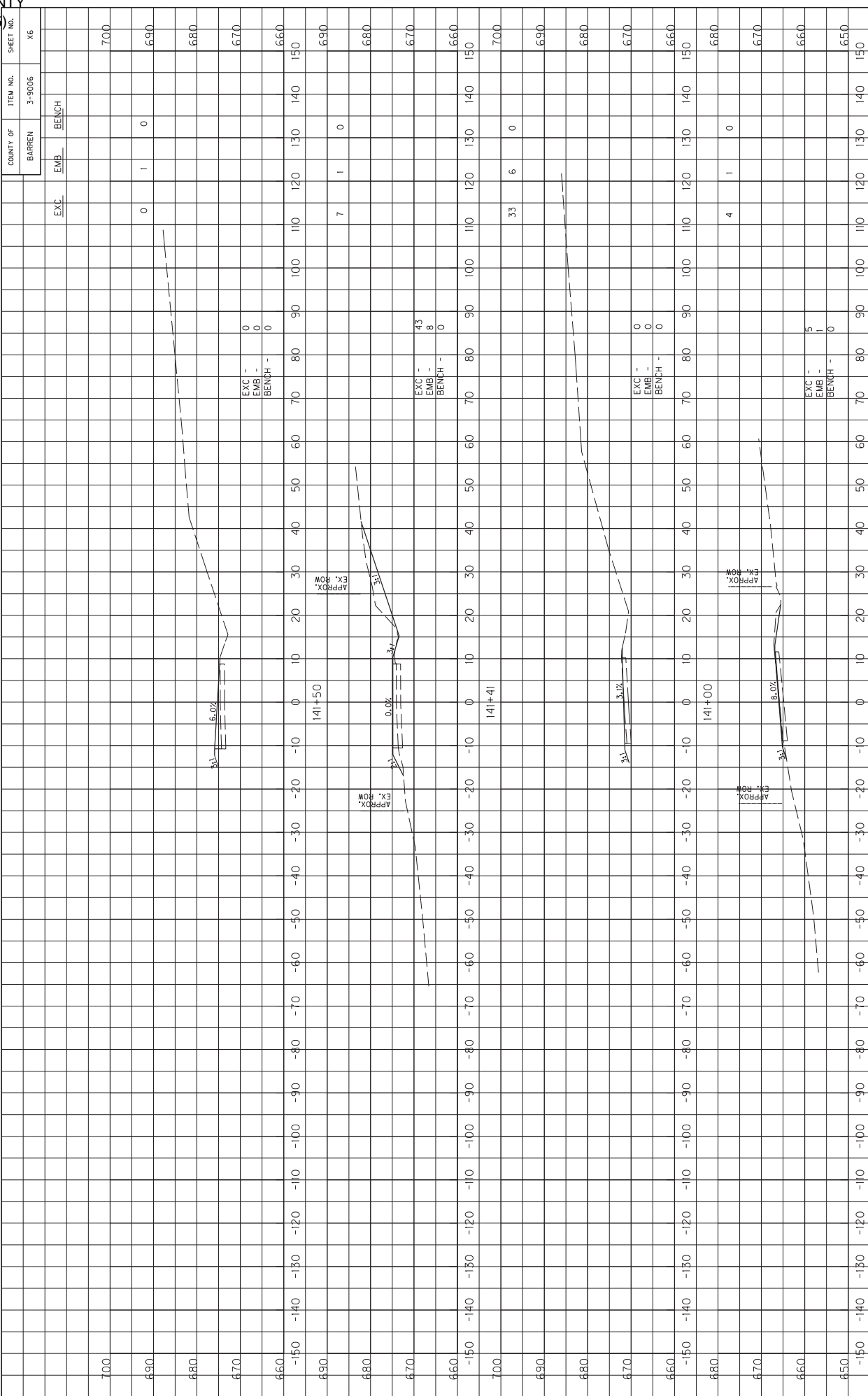
127+91.86
 SKEW 1.0° 36'-27"-LT.

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	15



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

MAINLINE
STA. 133+36 TO STA. 139+28



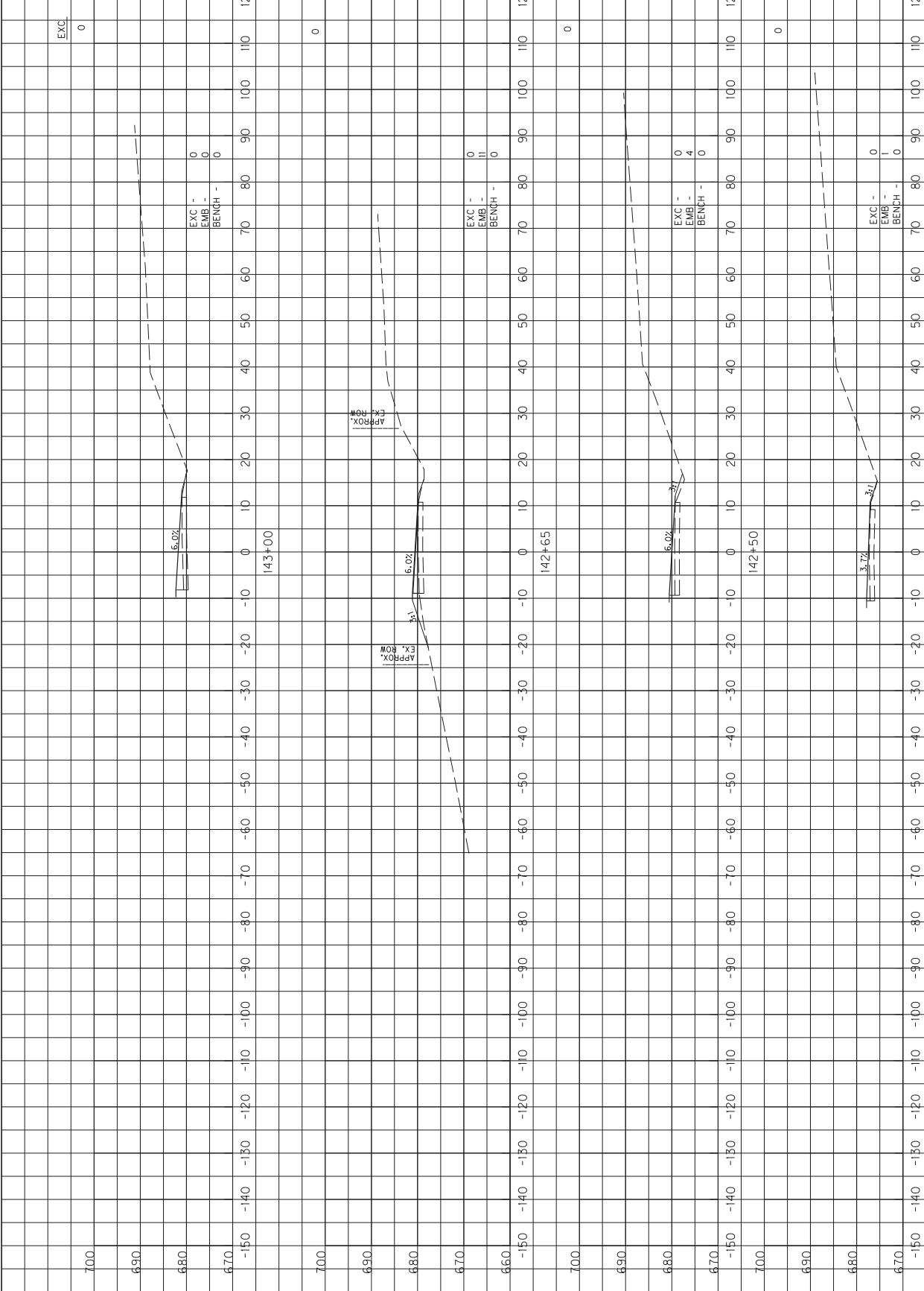
MicroStation v8.11.7.443 E-SHEET NAME: X02300X5 DATE PLOTTED: June 15, 2015 USFR: scoots

FILE NAME: Y:\KTC 20M\214-054 SMDRWY BAREN KY 2189.3-9006.00\MASTER PLAN SE\17-X-SECTIONS\BAREN KY 2189 MAINLINE XSECTIONS.DGN

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

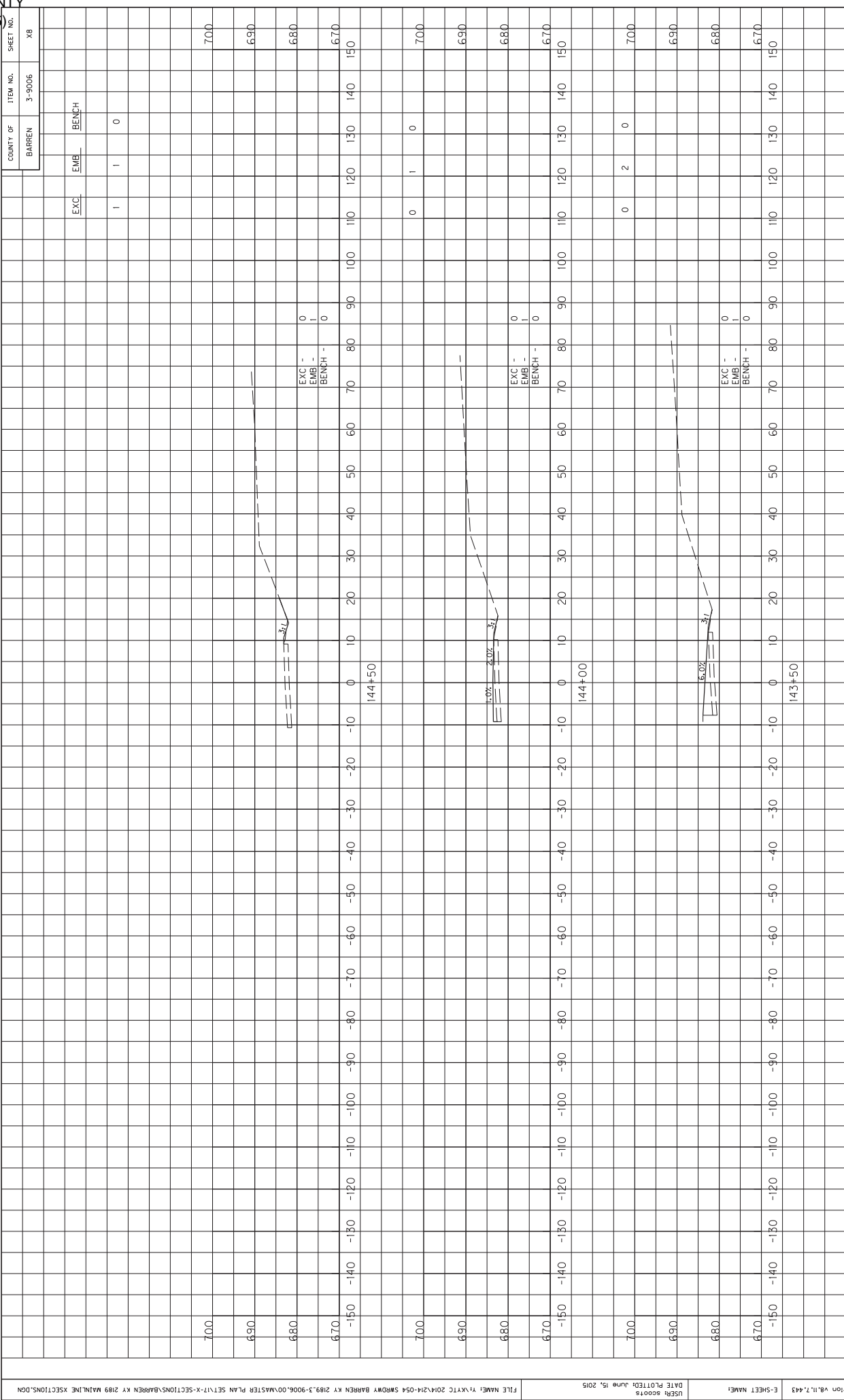
MAINLINE
STA. 140+36 TO STA. 141+50

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X7



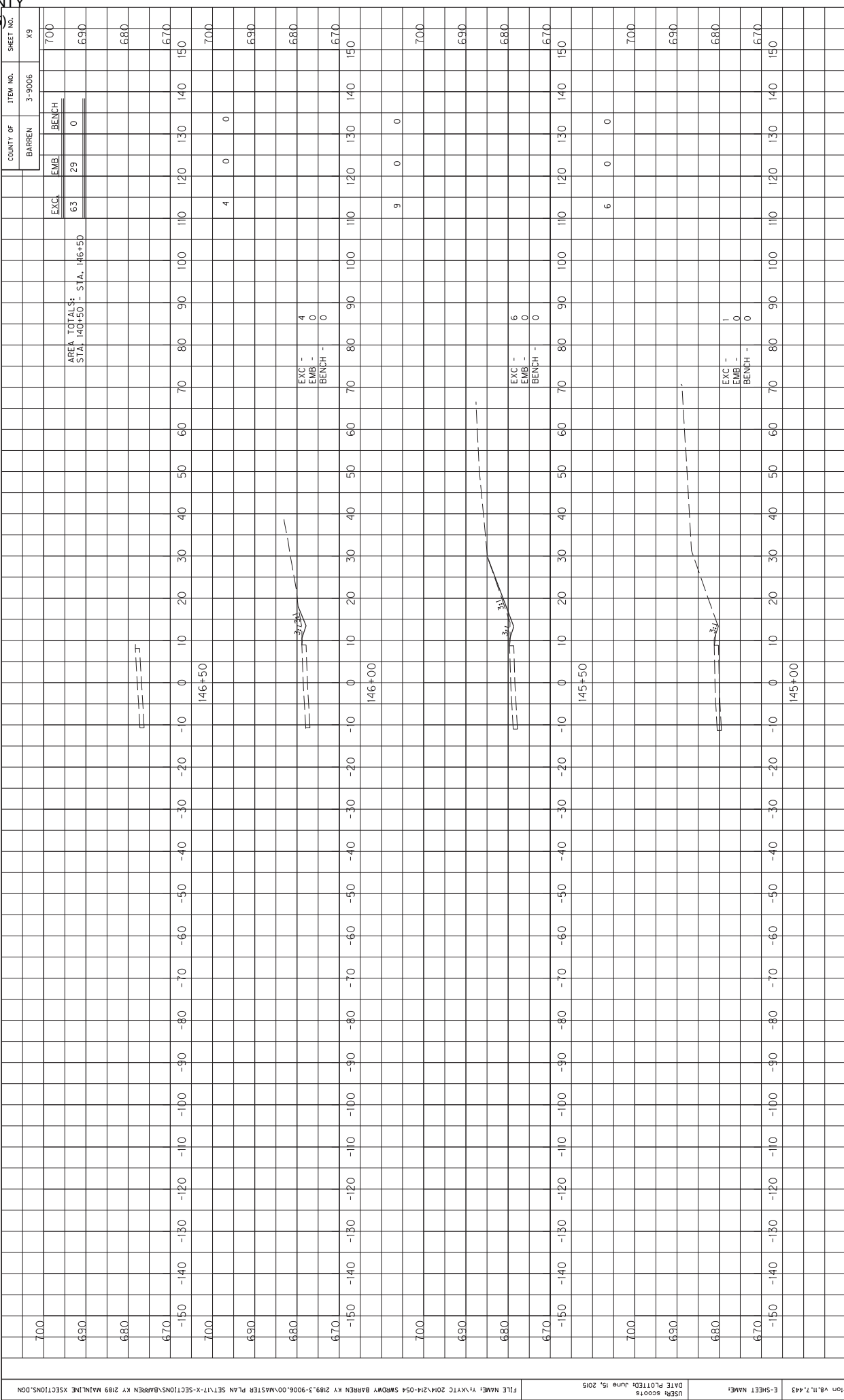
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

MAINLINE
STA. 142+00 TO STA. 143+00



MicroStation v8.11.7.443
DATE PLOTTED: June 15, 2015
USFR3.scotts
FILE NAME: Y:\KYTC 20M\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

SCALE: 1" = 10'
HORIZONTAL
VERTICAL
MAINLINE
STA. 143+50 TO STA. 144+50



MicroStation v8.11.7.443
DATE PLOTTED: June 15, 2015
USFR3.scotts
FILE NAME: Y:\KRYIC 20M\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SE1V17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

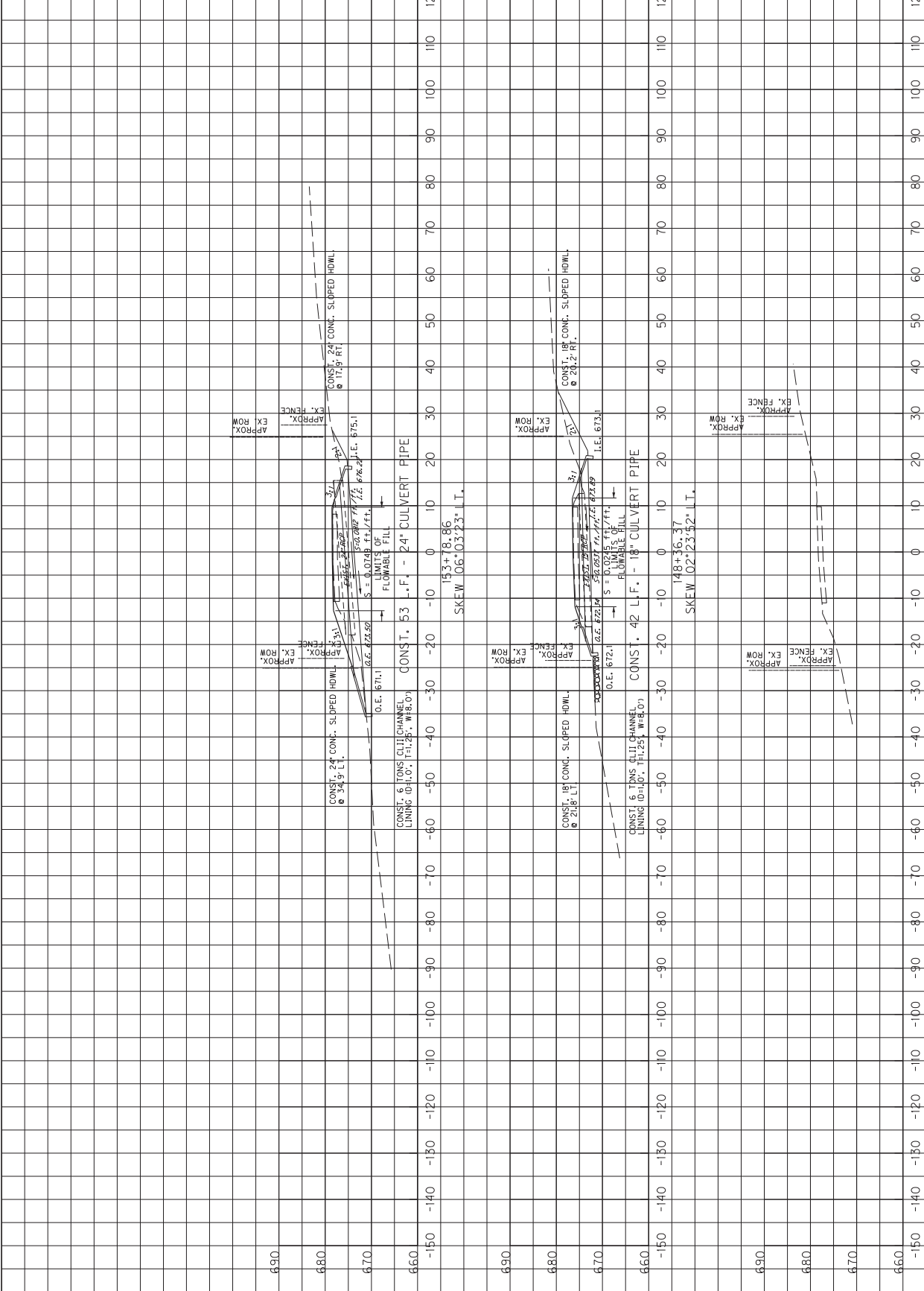
SCALE: 1" = 10'
HORIZONTAL
VERTICAL

MAINLINE
STA. 145+00 TO STA. 146+50

COUNTY OF
BARREN

ITEM NO.
3-9006

SHEET NO.
X10



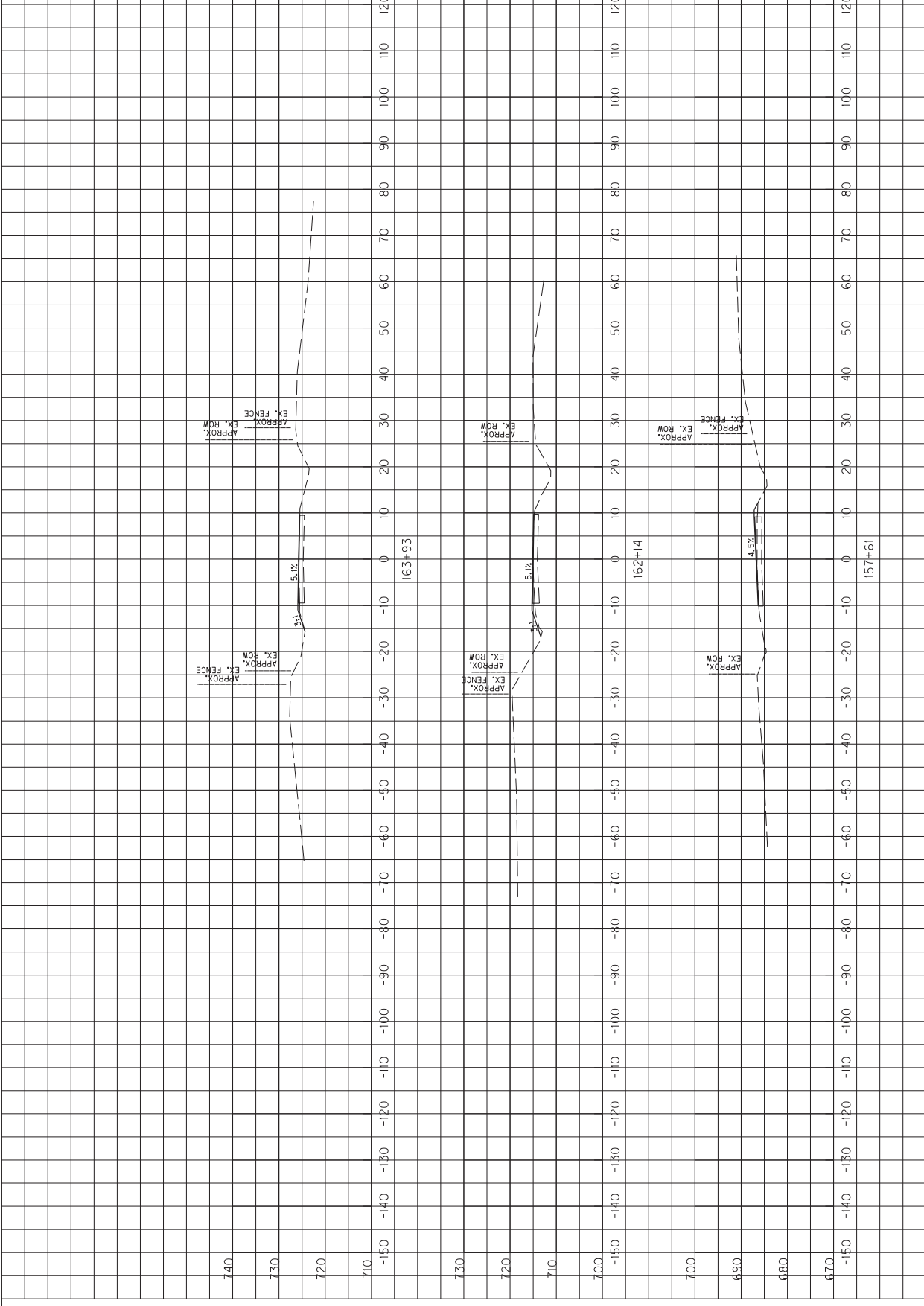
MicroStation v8.11.7.443
E-SHEET NAME: X02300X5
DATE PLOTTED: June 15, 2015
USFR: scoots

FILE NAME: Y:\KRYC 20M\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

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

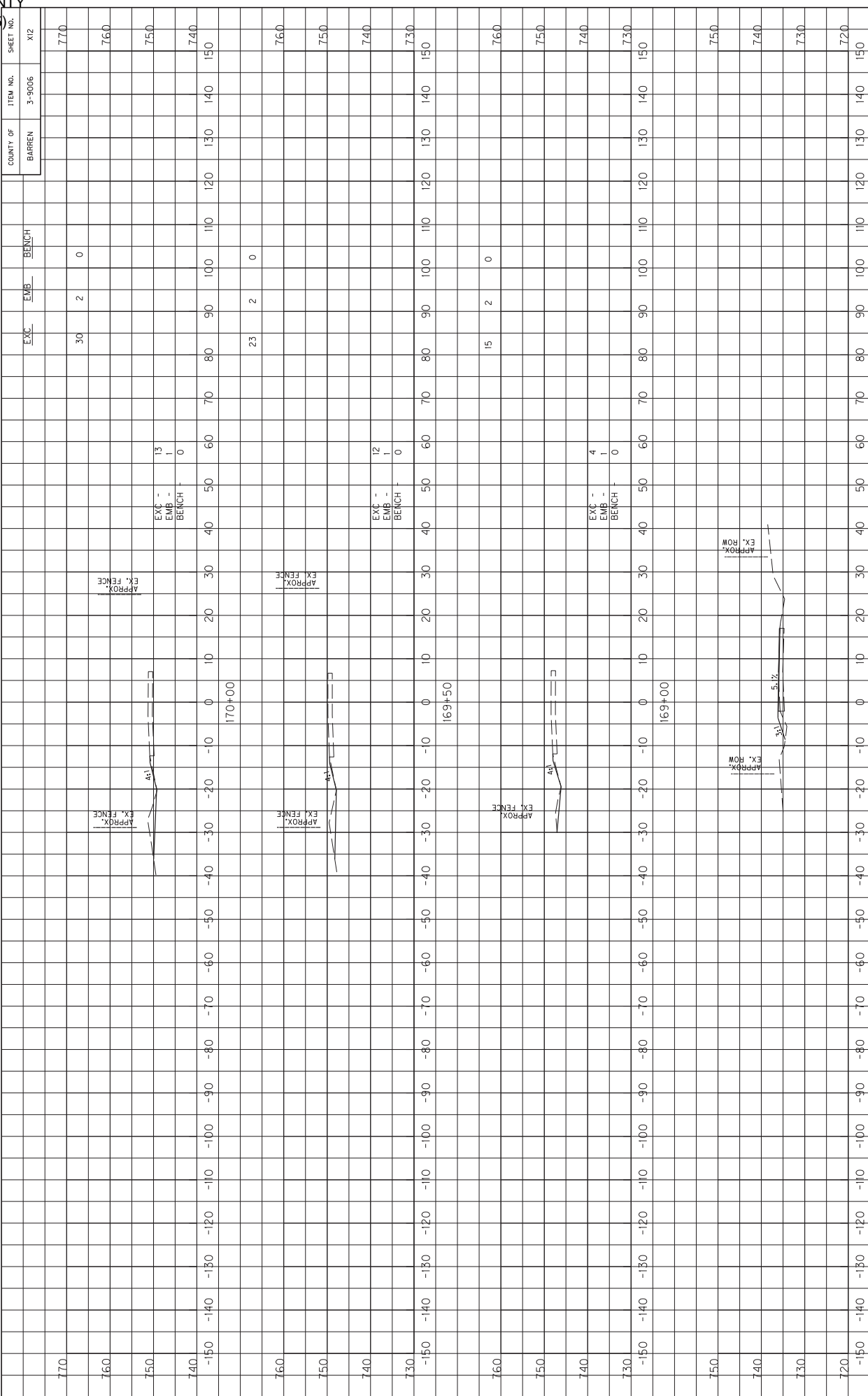
MAINLINE
STA. 146+20 TO STA. 153+78.86

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	XII



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

MAINLINE
STA. 157+61 TO STA. 163+93



MicroStation v8.11.7.443 E-SHEET NAME: DATE PLOTTED: June 15, 2015
 USFR3 scoots FILE NAME: Y:\KYTC 20M\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SE\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X12

EXC	EMB	BENCH	STATION	ELEVATION
30	2	0	170+00	770
				760
				750
				740
				730
				720
23	2	0	169+50	760
				750
				740
				730
				720
15	2	0	169+00	750
				740
				730
				720

SCALE: 1" = 10'
 HORIZONTAL
 VERTICAL
 MAINLINE
 STA. 165+63 TO STA. 170+00

COUNTY OF
BARREN

ITEM NO.
3-9006

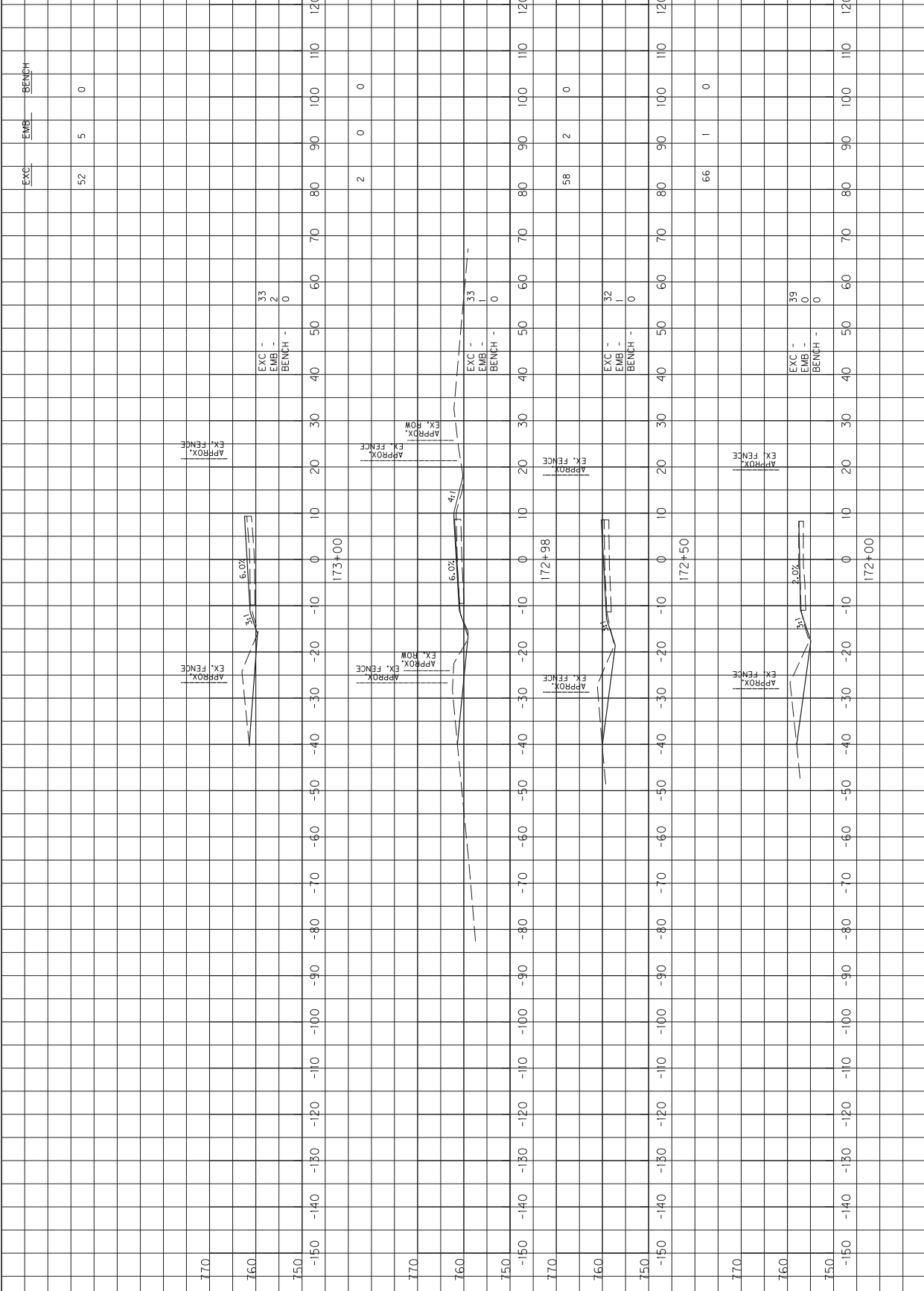
SHEET NO.
X13

Station	Excavation	Embarkment	Bench
770	69	3	0
760			
750			
740			
-150			
-140			
-130			
-120			
-110			
-100			
-90			
-80			
-70			
-60			
-50			
-40			
-30			
-20			
10			
20			
30			
40			
50			
60			
70			
80			
90			
100			
110			
120			
130			
140			
150			
770	11	1	0
760			
750			
740			
-150			
-140			
-130			
-120			
-110			
-100			
-90			
-80			
-70			
-60			
-50			
-40			
-30			
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40			
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60			
70			
80			
90			
100			
110			
120			
130			
140			
150			
770	23	2	0
760			
750			
740			
-150			
-140			
-130			
-120			
-110			
-100			
-90			
-80			
-70			
-60			
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40			
50			
60			
70			
80			
90			
100			
110			
120			
130			
140			
150			
770	43	1	0
760			
750			
740			
-150			
-140			
-130			
-120			
-110			
-100			
-90			
-80			
-70			
-60			
-50			
-40			
-30			
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140			
150			

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

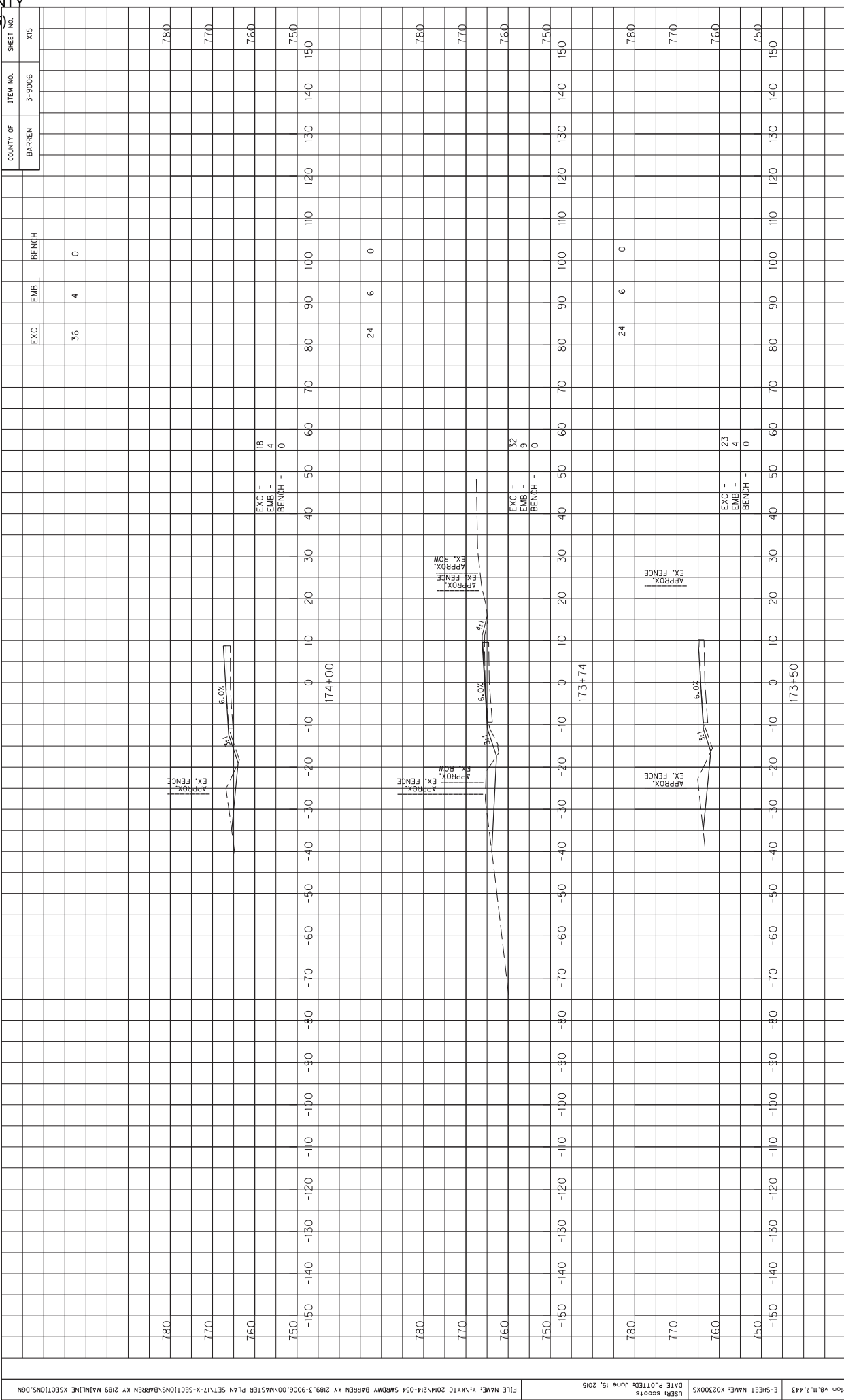
MAINLINE
STA. 170+50 TO STA. 171+36

COUNTY OF	ITEM NO.	SHEET NO.
BAREN	3-9006	X14



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

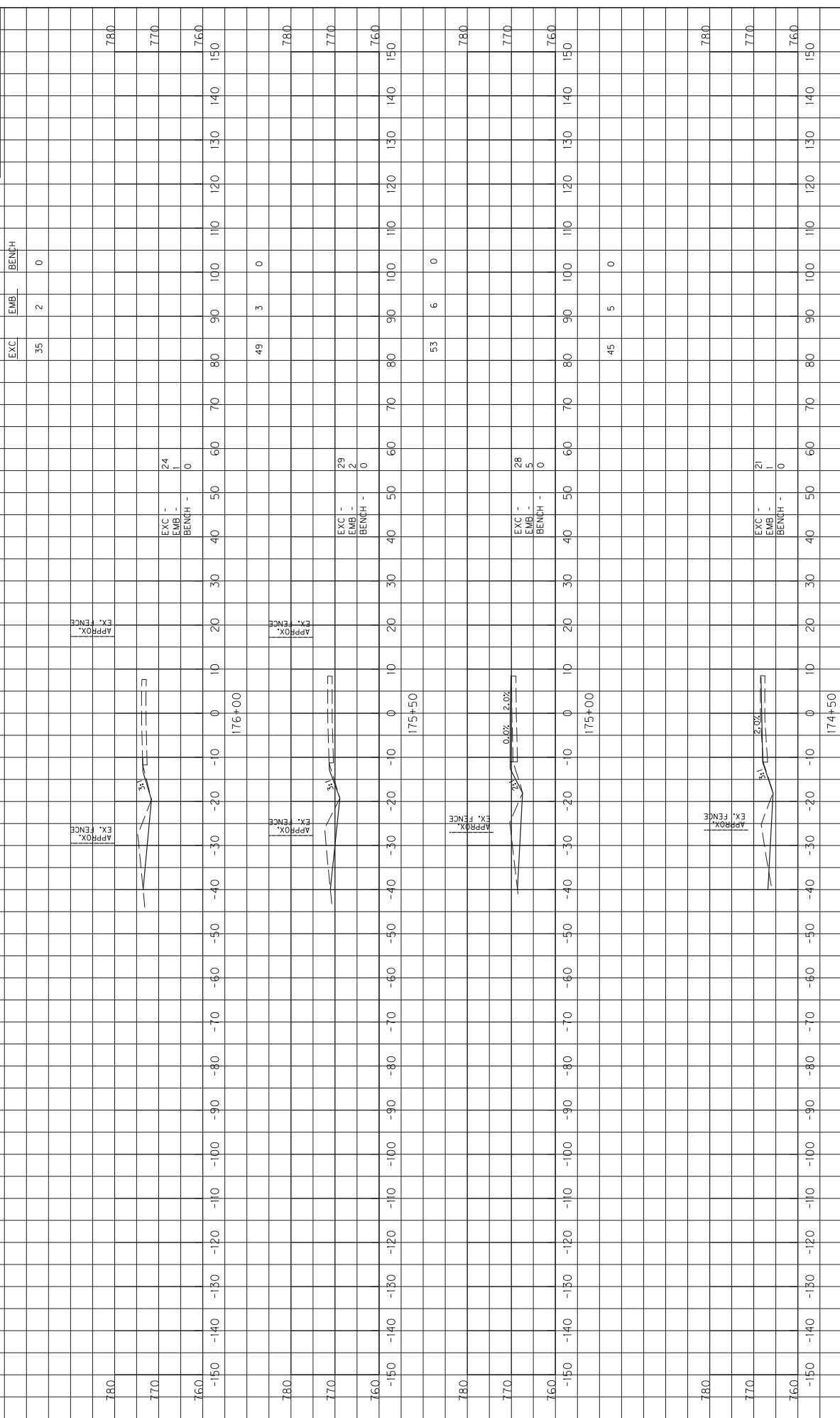
MAINLINE
STA. 172+00 TO STA. 173+00



MicroStation v8.11.7.443
 USFR2 SCOTTS DATE PLOTTED: June 15, 2015
 FILE NAME: Y:\KYTC 20M\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

SCALE: 1" = 10' HORIZONTAL
 1" = 10' VERTICAL
 MAINLINE
 STA. 173+50 TO STA. 174+50

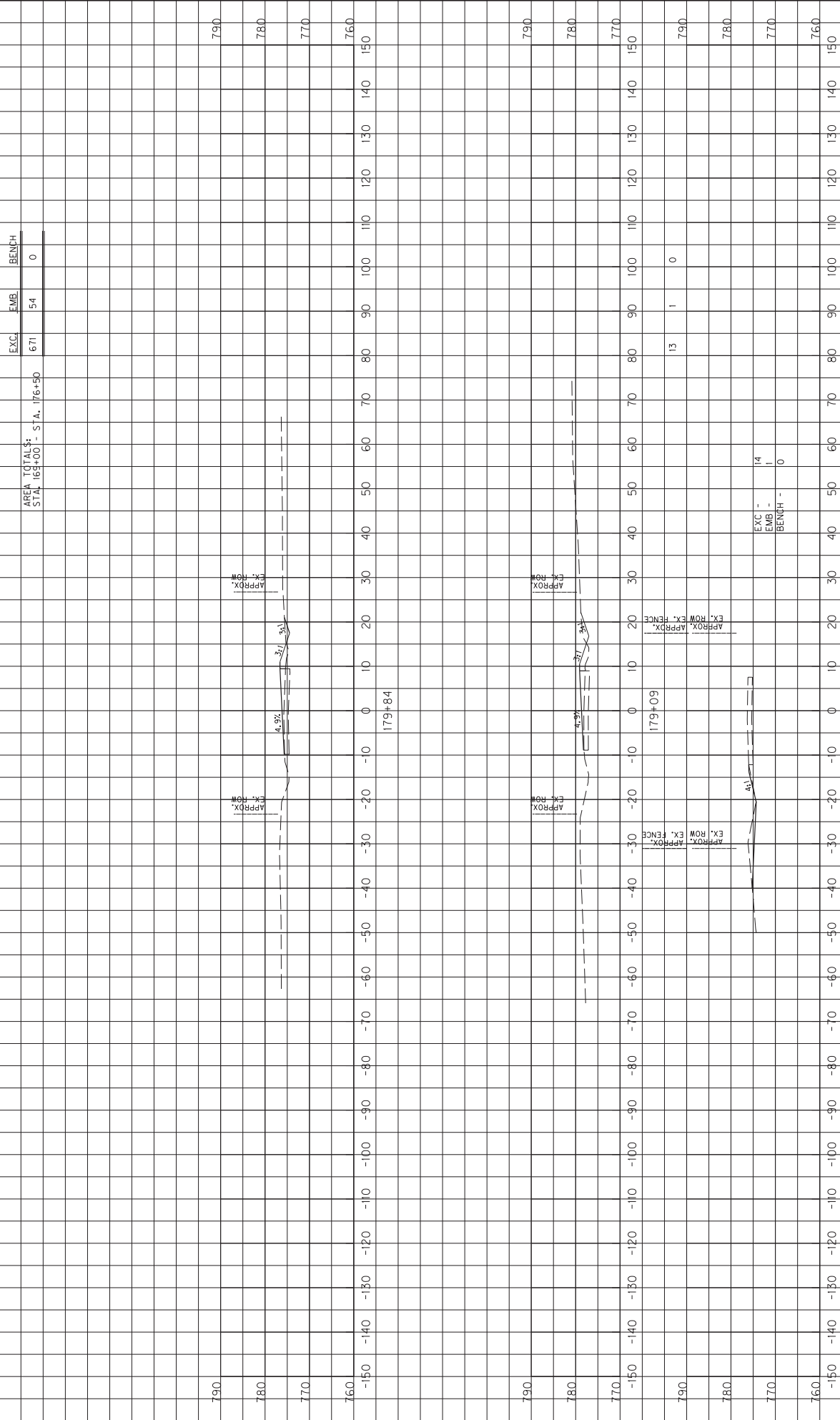
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X16



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

MAINLINE
STA. 173+74 TO STA. 176+00

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X17



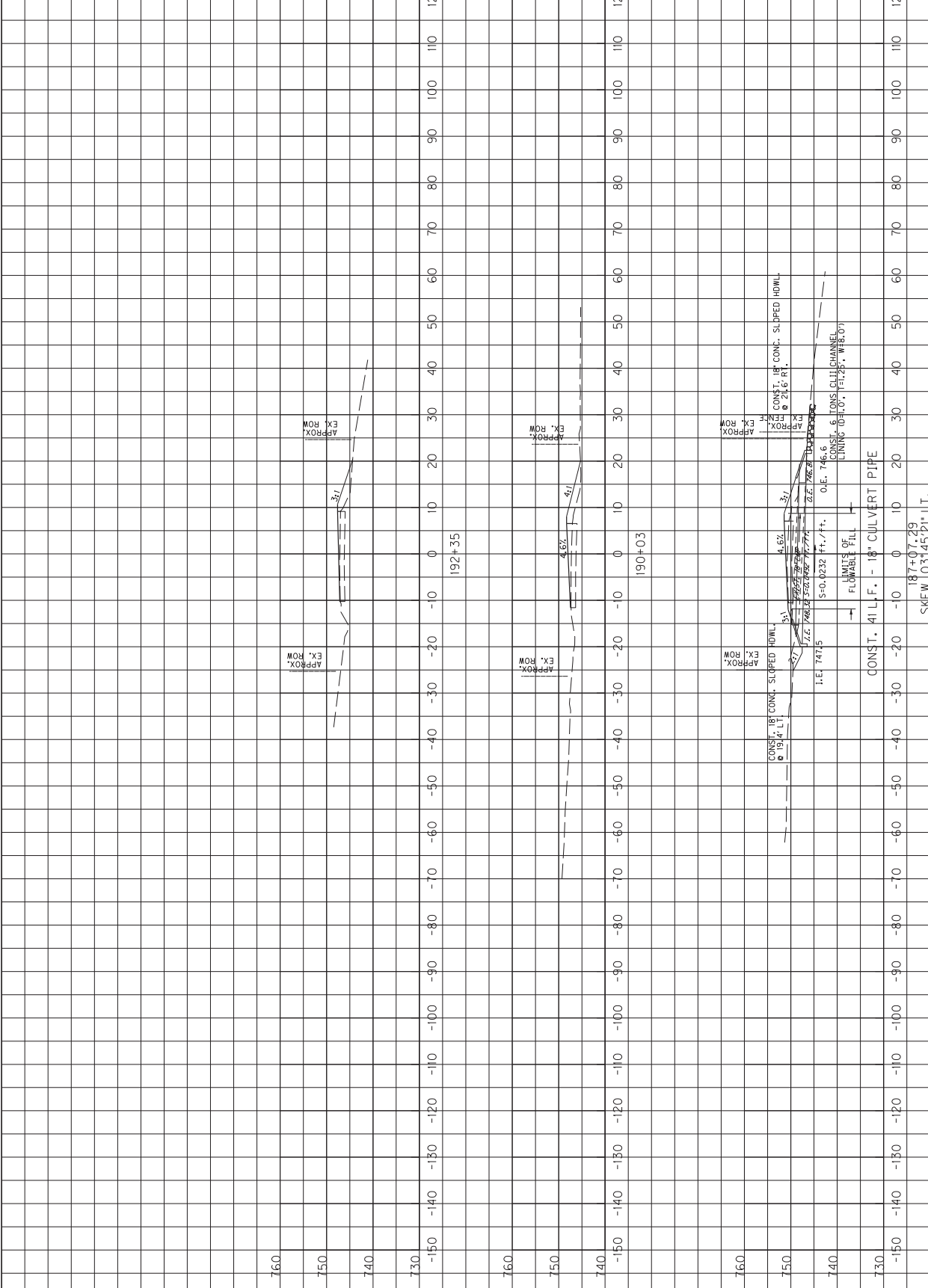
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

MAINLINE
STA. 176+50 TO STA. 179+84

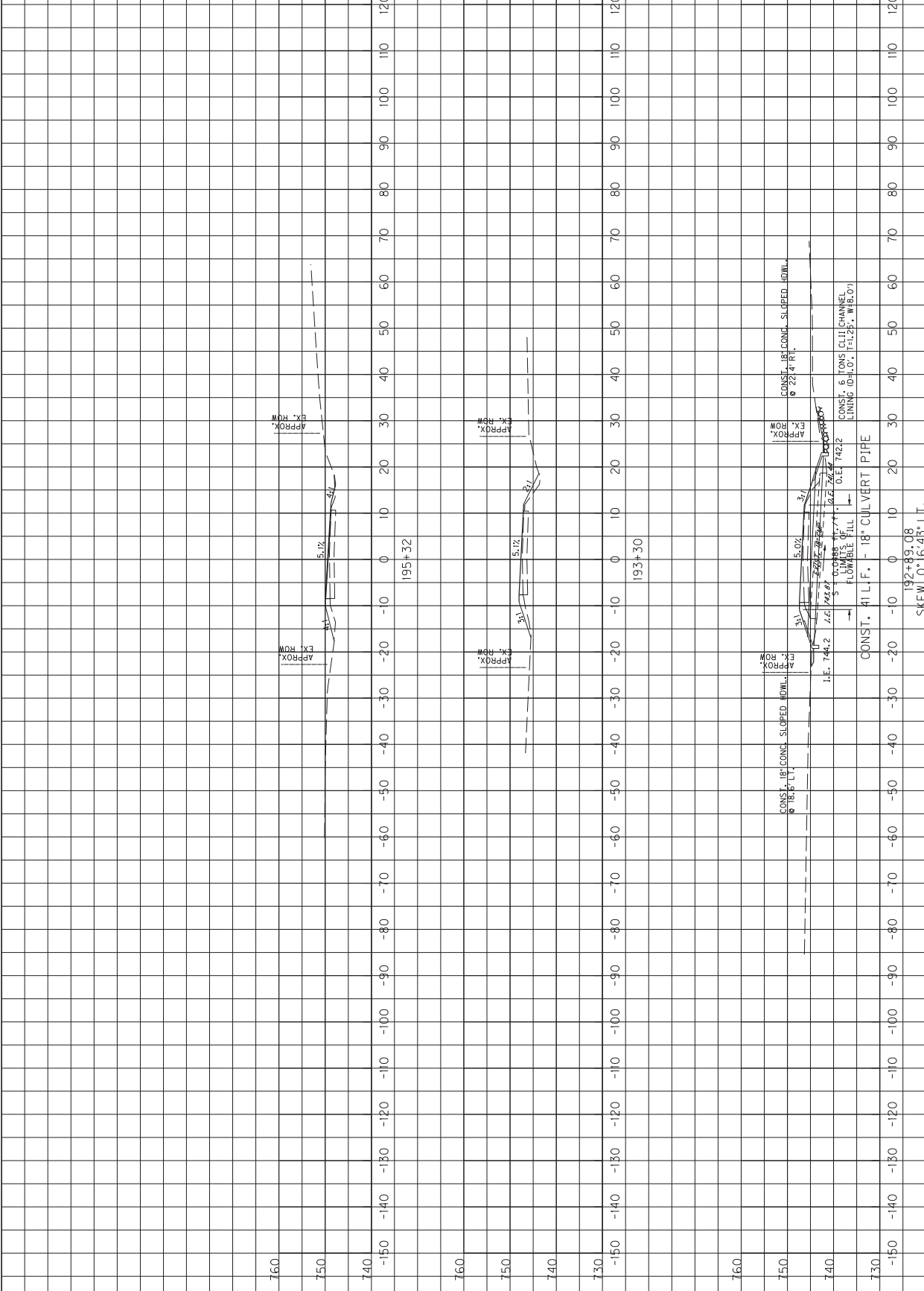
COUNTY OF
BARREN

ITEM NO.
3-9006

SHEET NO.
XIB



COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X19



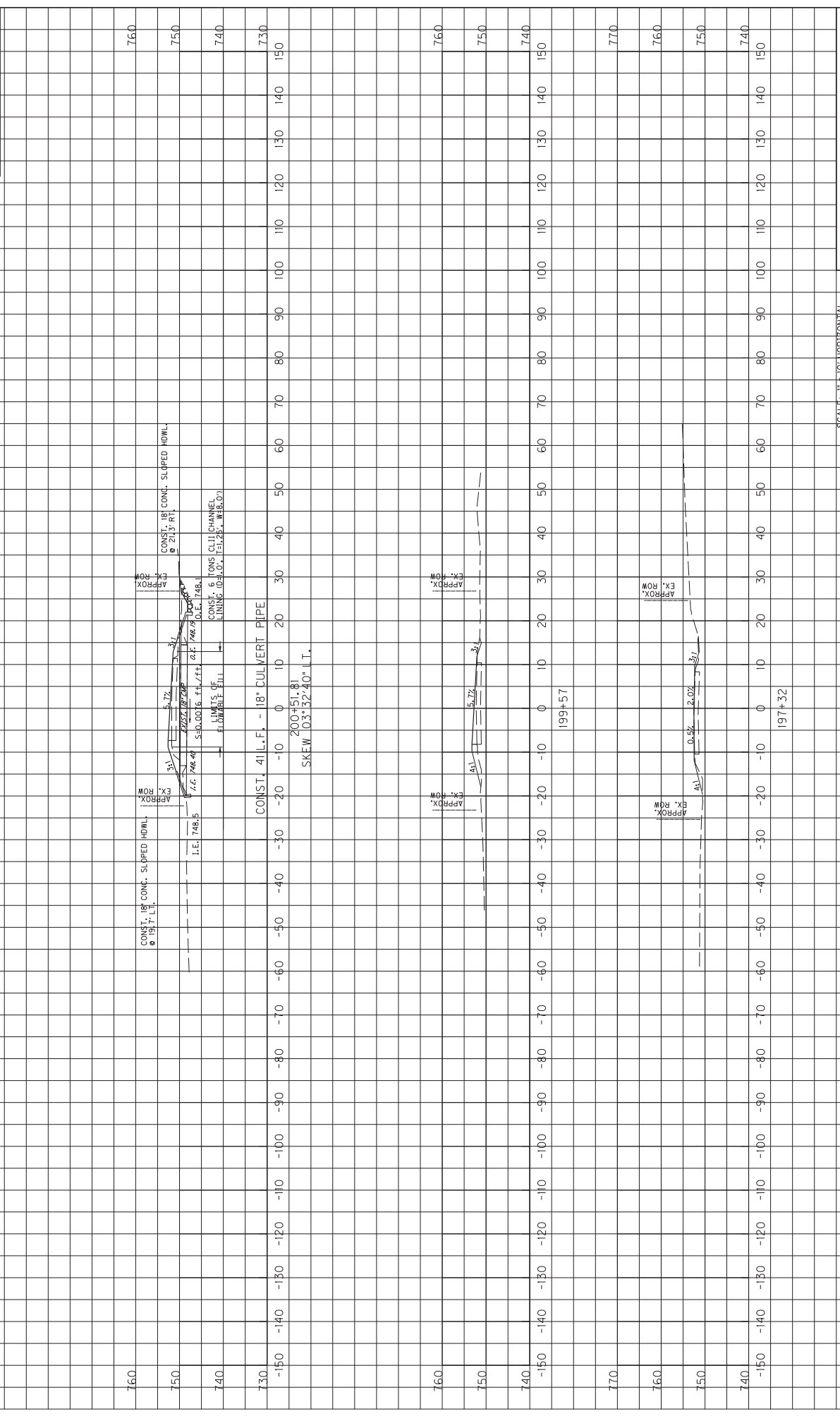
MicroStation v8.11.7.443
 E-SHEET NAME: X02300X5
 DATE PLOTTED: June 15, 2015
 USFR3 SCOOT3
 FILE NAME: Y:\KRYIC 2014\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

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

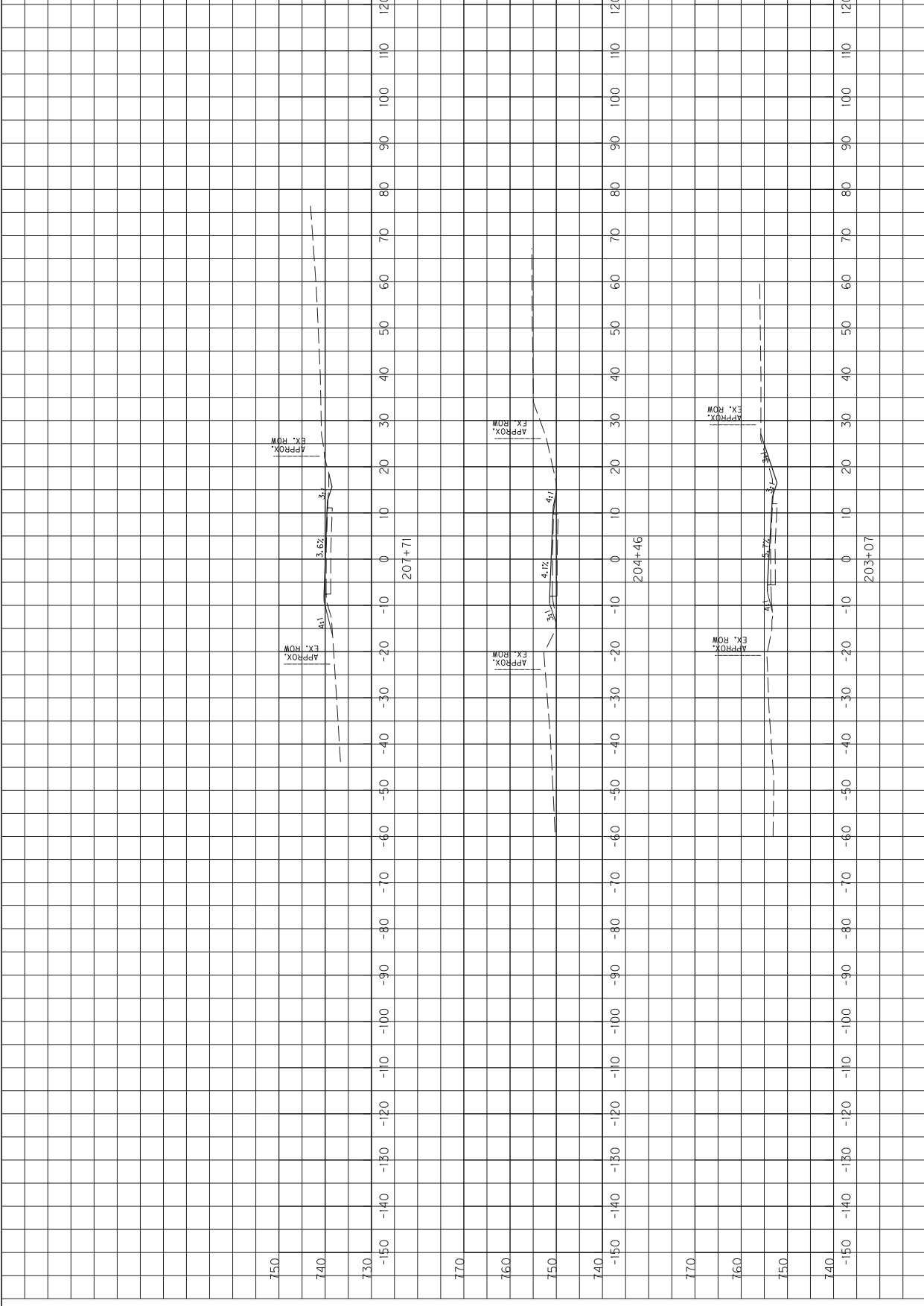
MAINLINE
 STA. 192+89.08 TO STA. 195+32

0

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X20



COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X21



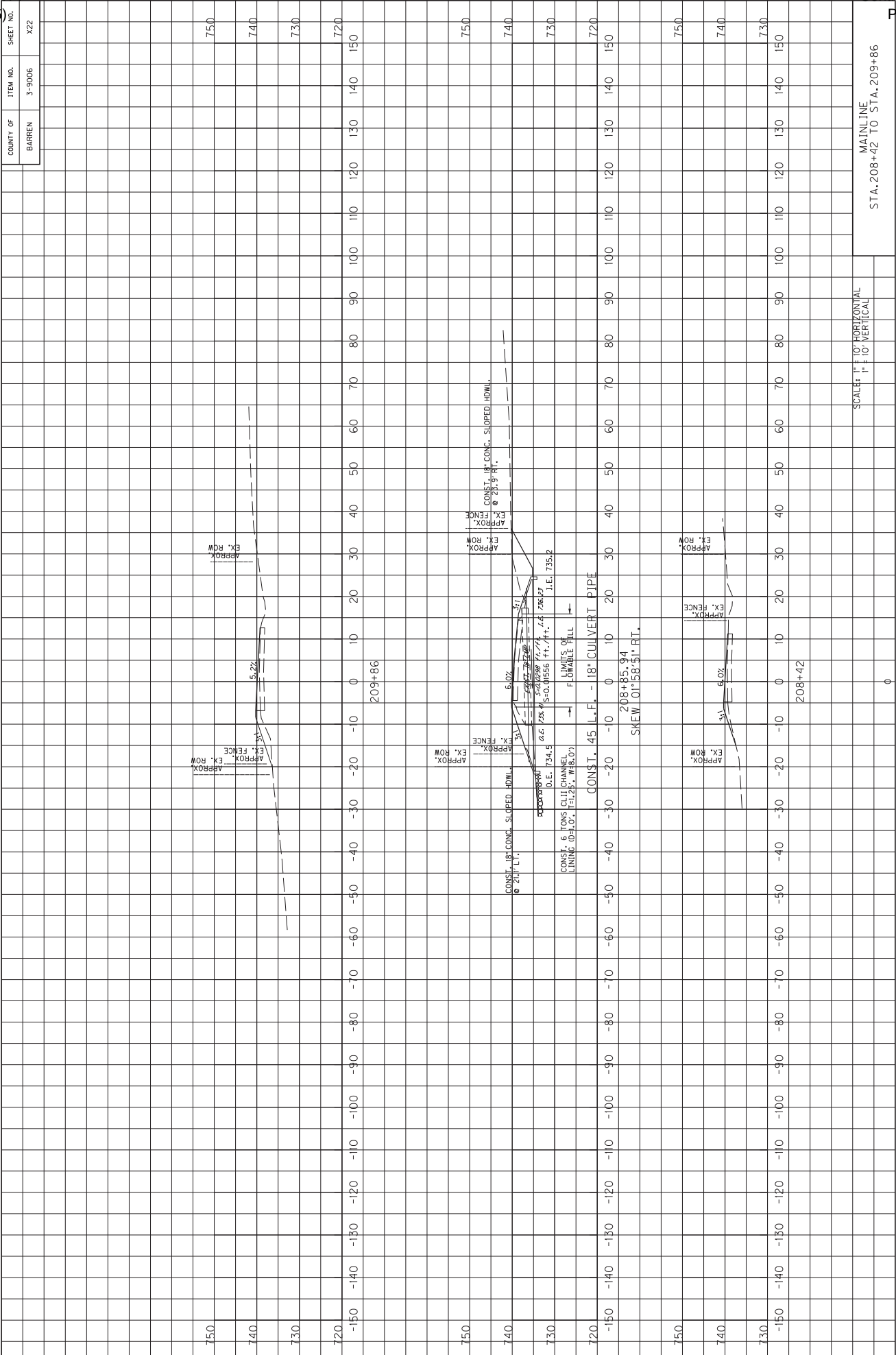
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

MAINLINE
STA. 203+07 TO STA. 207+71

COUNTY OF
BARREN

ITEM NO.
3-9006

SHEET NO.
X22



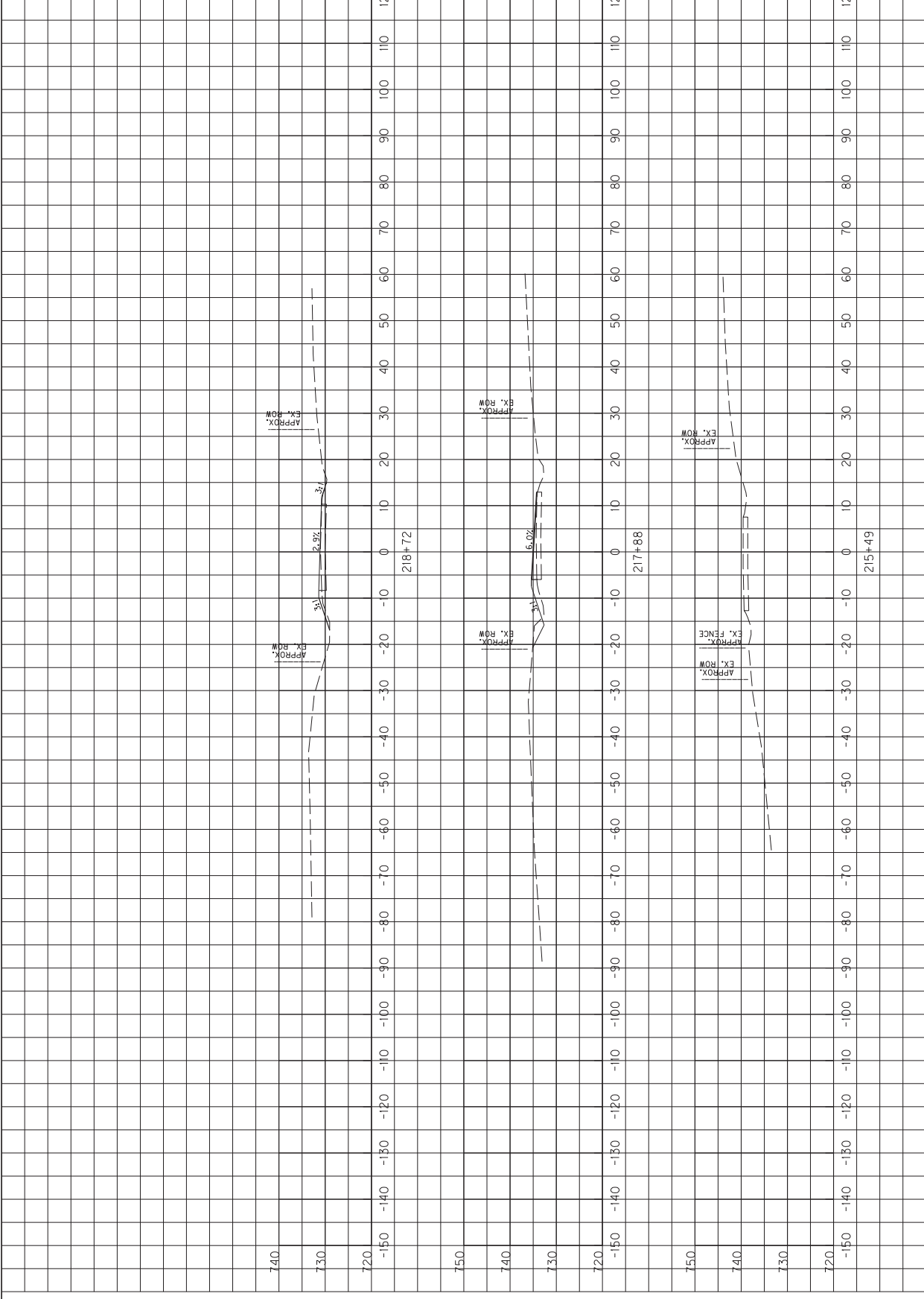
MicroStation v8.11.7.443
E-SHEET NAME: X02300X5
DATE PLOTTED: June 15, 2015
USER: scoots

FILE NAME: Y:\KYTC\2014\214-054 SMOBY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

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

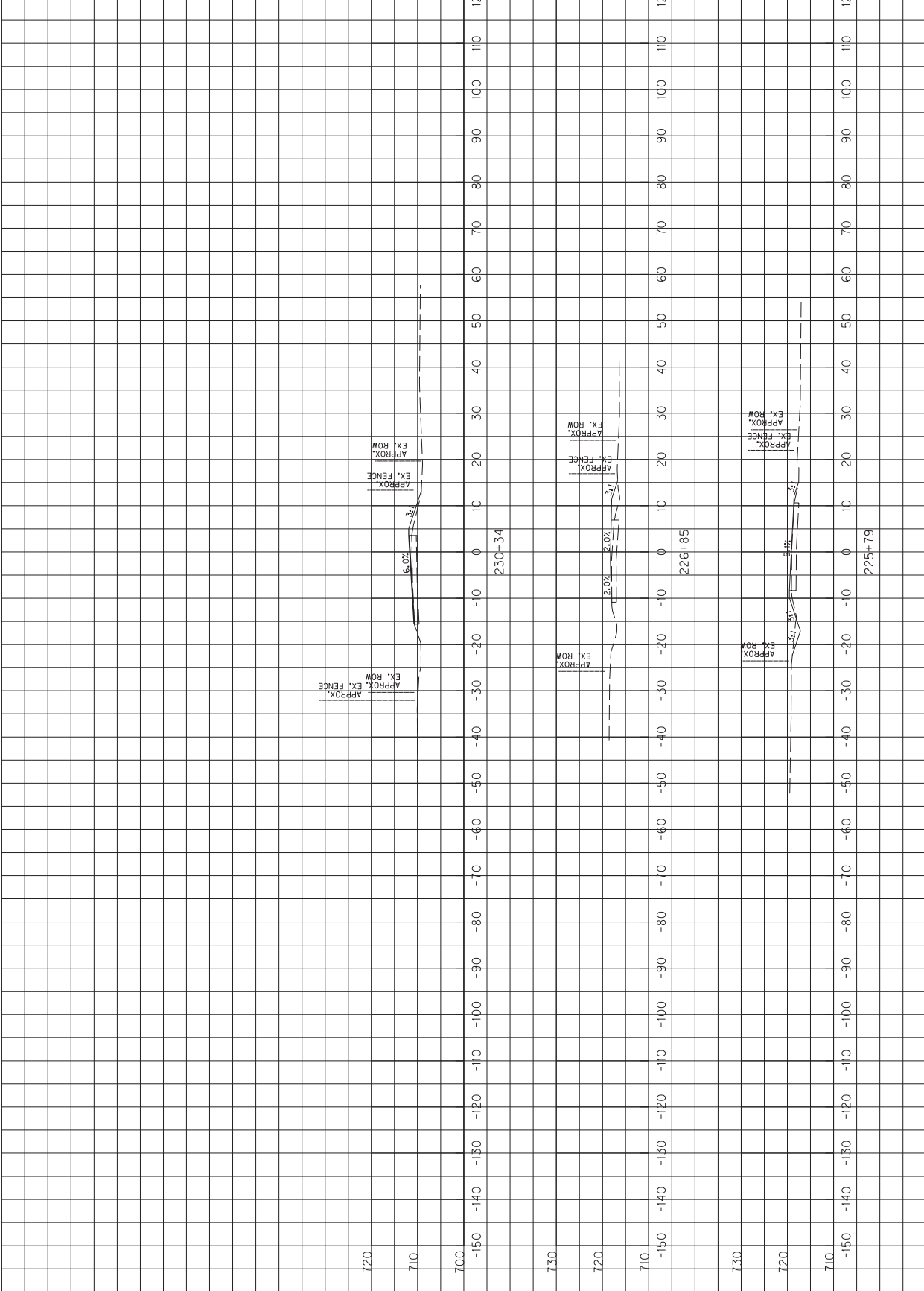
MAINLINE
STA. 208+42 TO STA. 209+86

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X23



MAINLINE STA. 215+49 TO STA. 218+72	SCALE: 1" = 10' HORIZONTAL 1" = 10' VERTICAL
--	---

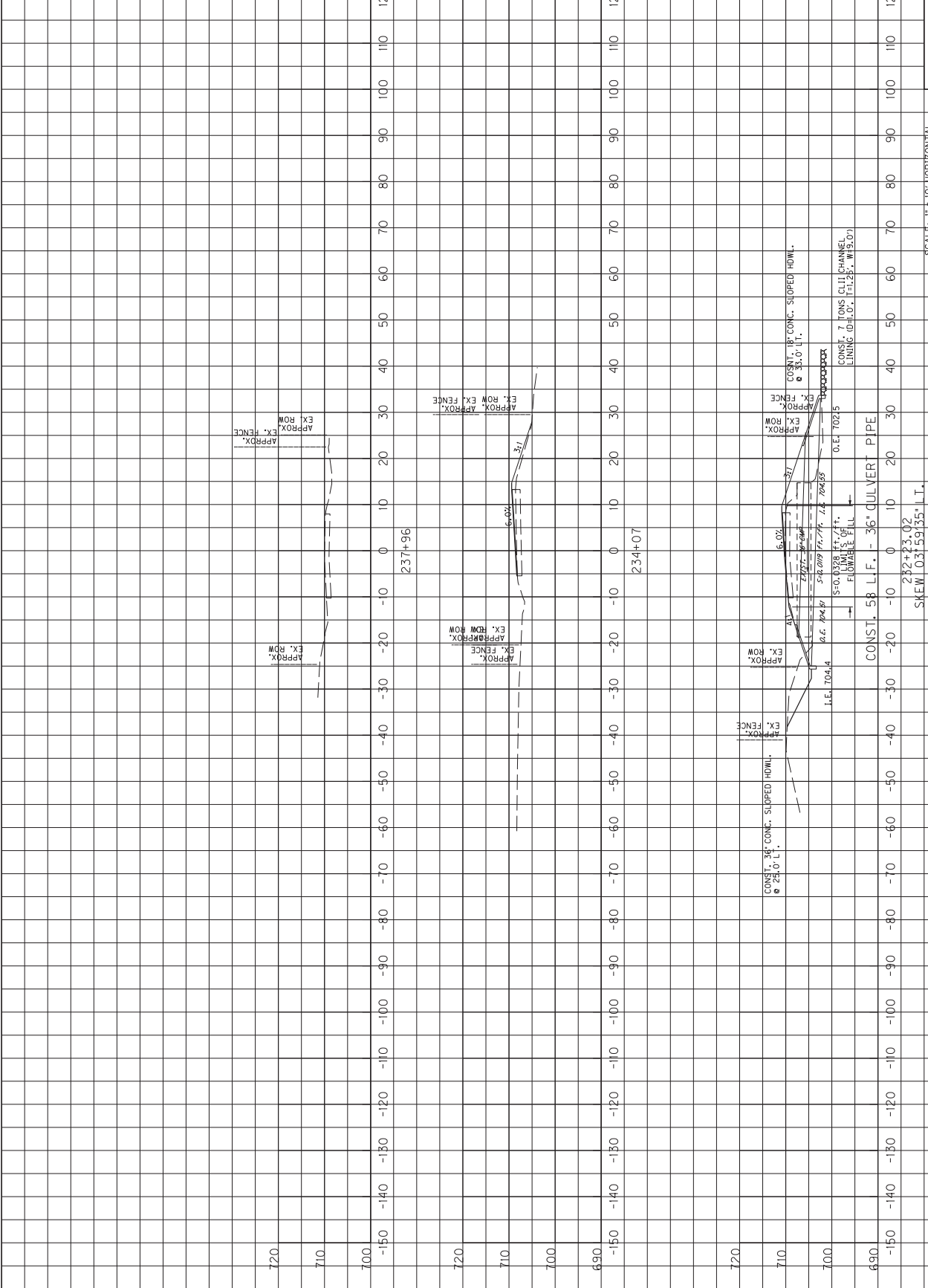
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X24



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

MAINLINE
STA. 225+79 TO STA. 230+34

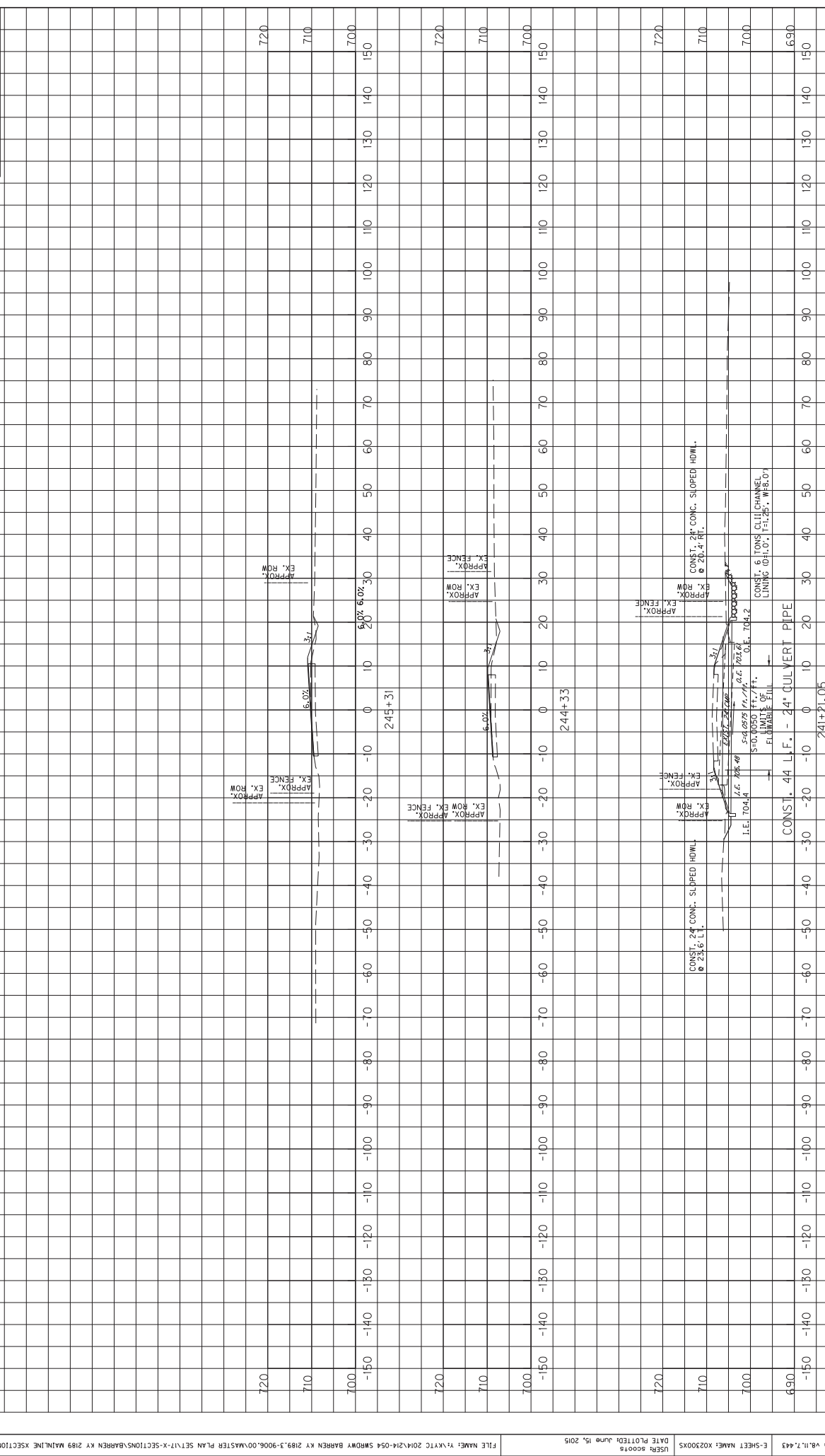
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X25



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

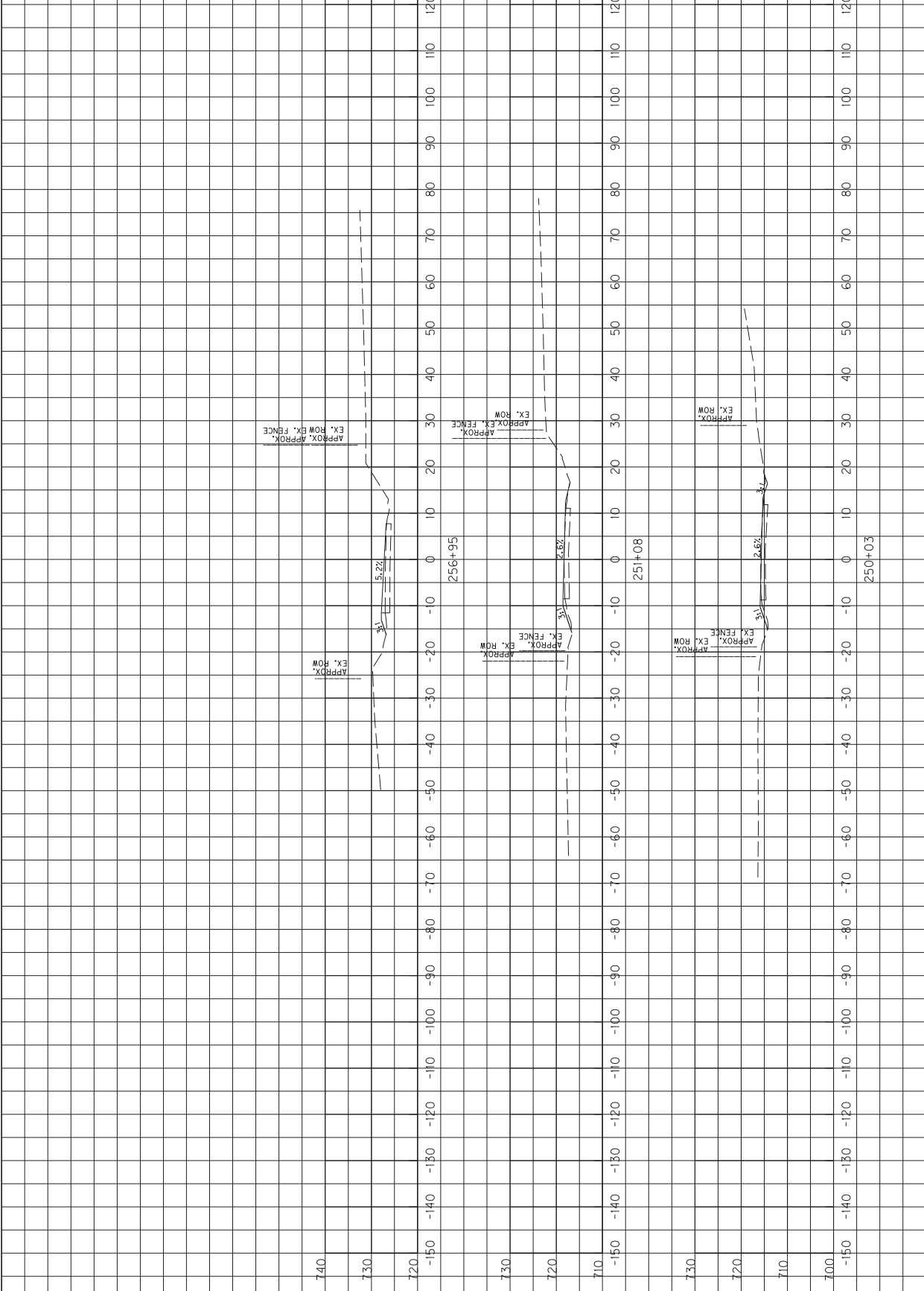
MAINLINE
STA. 232+23.02 TO STA. 237+96

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X26



MicroStation v8.11.7.443 E-SHEET NAME: X02500X5 DATE PLOTTED: June 15, 2015 USFR3 SCOTTS FILE NAME: Y:\KYTC\2014\214-054 SR09Y BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

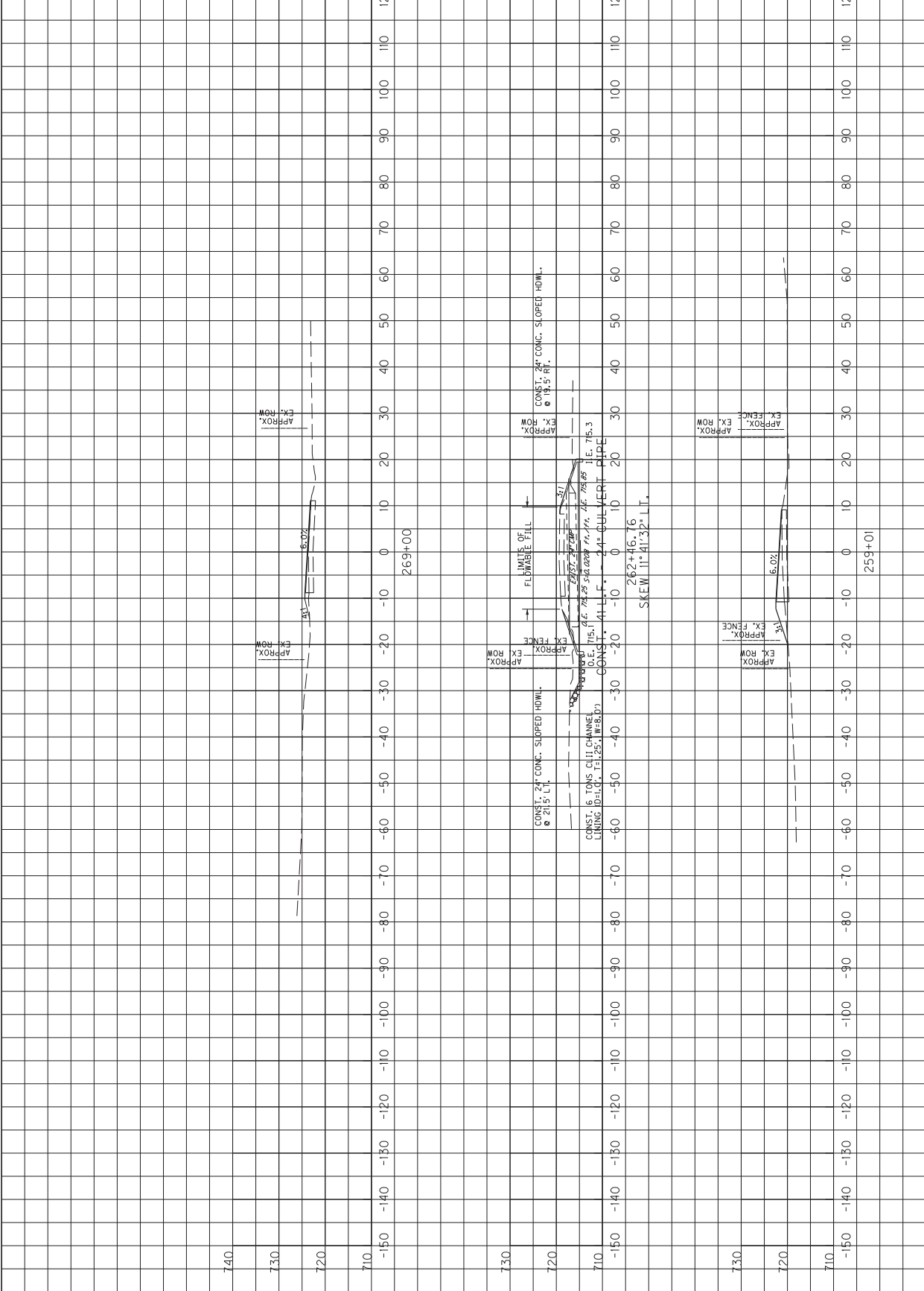
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X27



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

MAINLINE
STA. 250+03 TO STA. 256+95

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X28



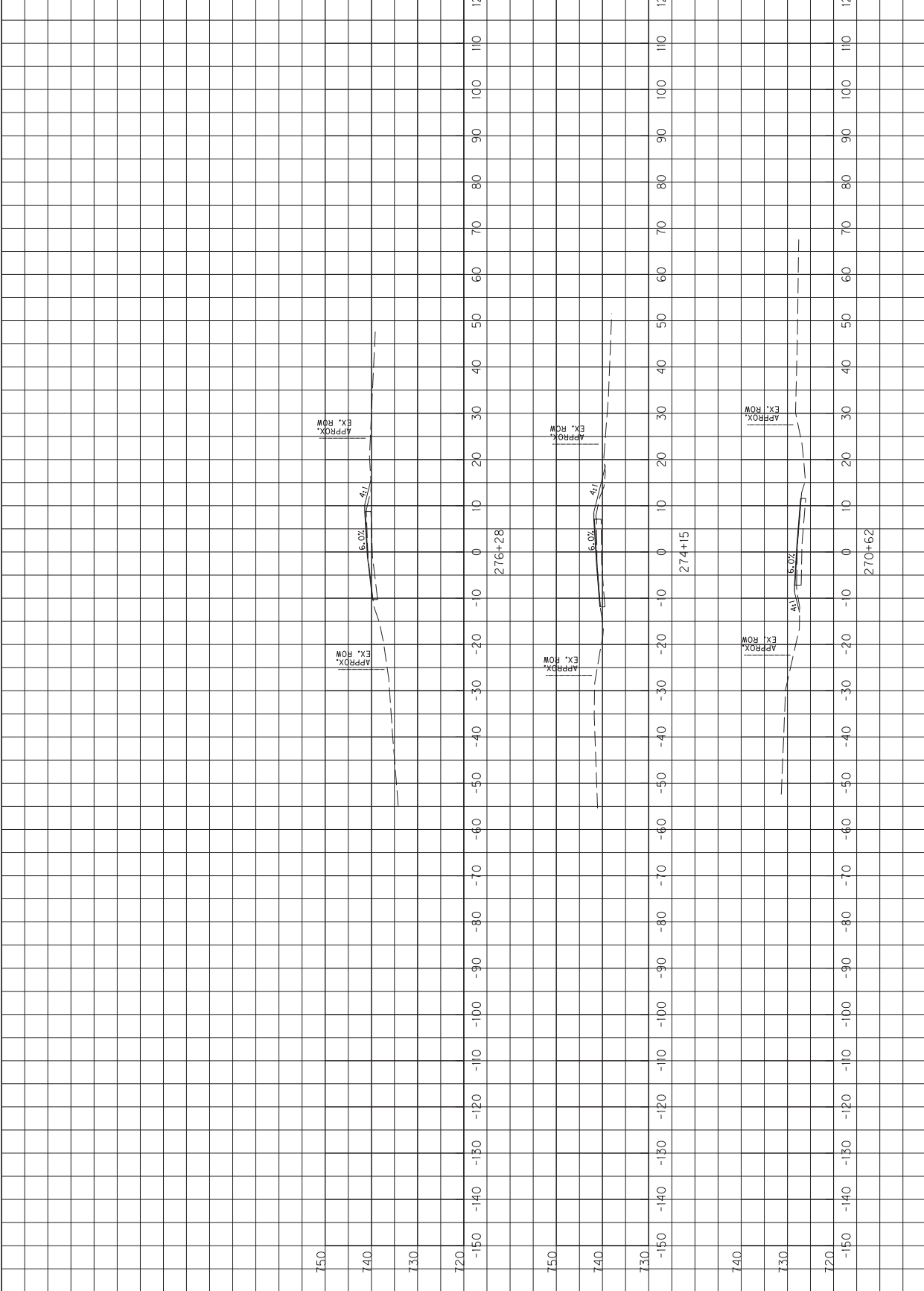
MicroStation v8.11.7.443 E-SHEET NAME: X02300X5 USFR3 SC0075 DATE PLOTTED: June 15, 2015
 FILE NAME: Y:\KVIC 20M\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

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

MAINLINE
STA. 259+01 TO STA. 269+00

0

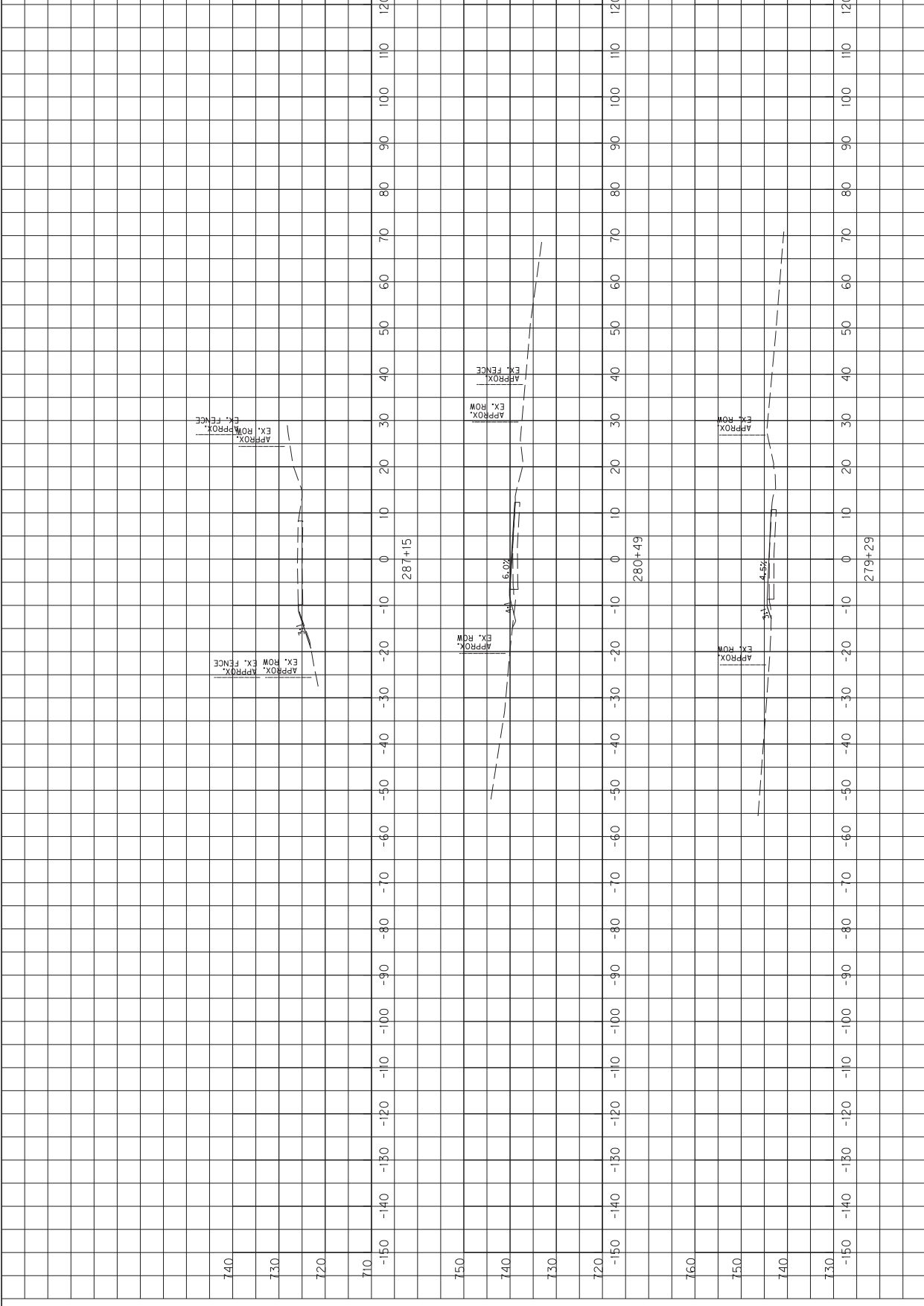
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X29



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

MAINLINE
STA. 270+62 TO STA. 276+28

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X30

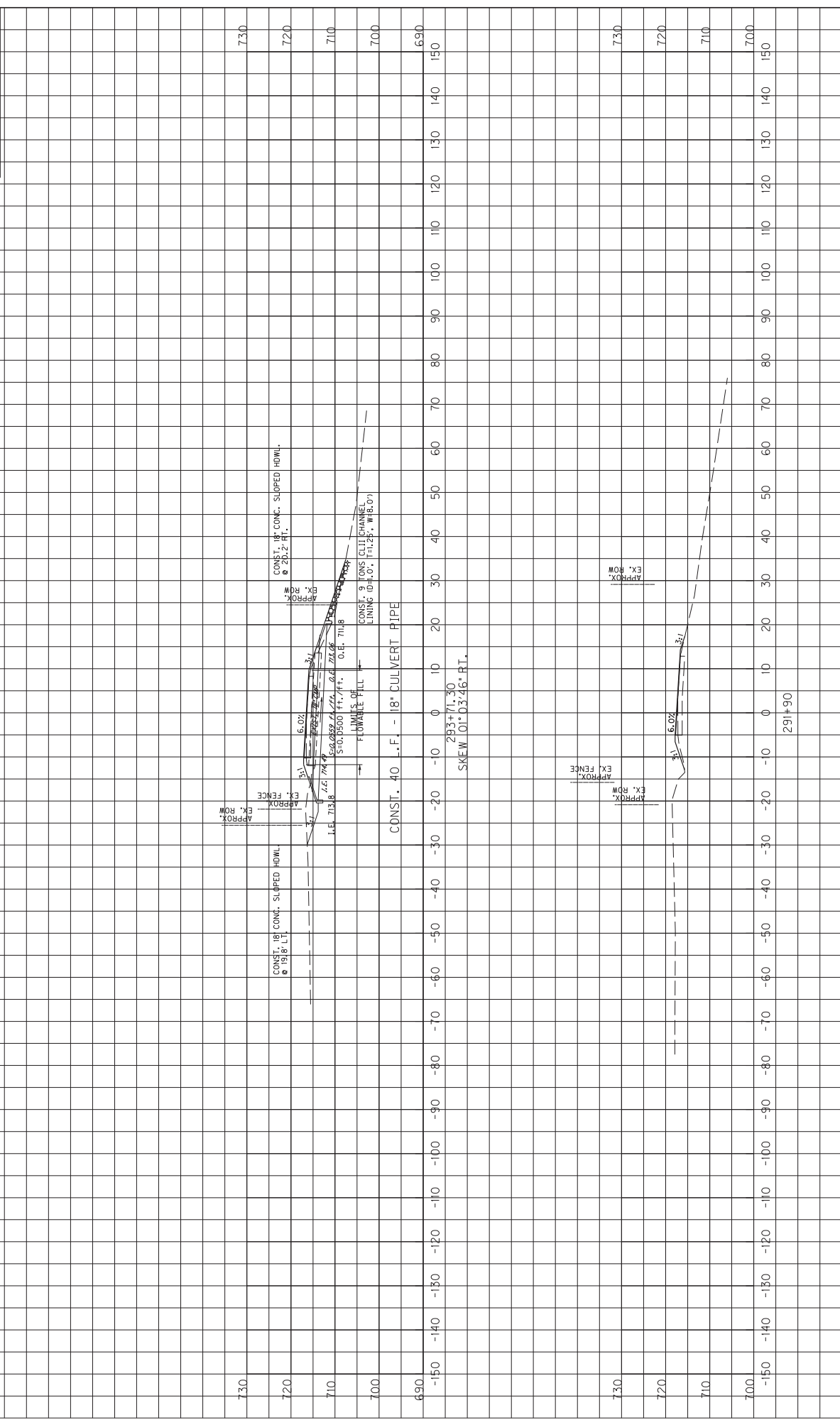


MAINLINE	STA. 279+29 TO STA. 287+15
----------	----------------------------

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

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X31

MicroStation v8.11.7.443 E-SHEET NAME: X02400X5 DATE PLOTTED: June 15, 2015 USFR scoots FILE NAME: Y:\KYTC\2014\214-054 SMDRW BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

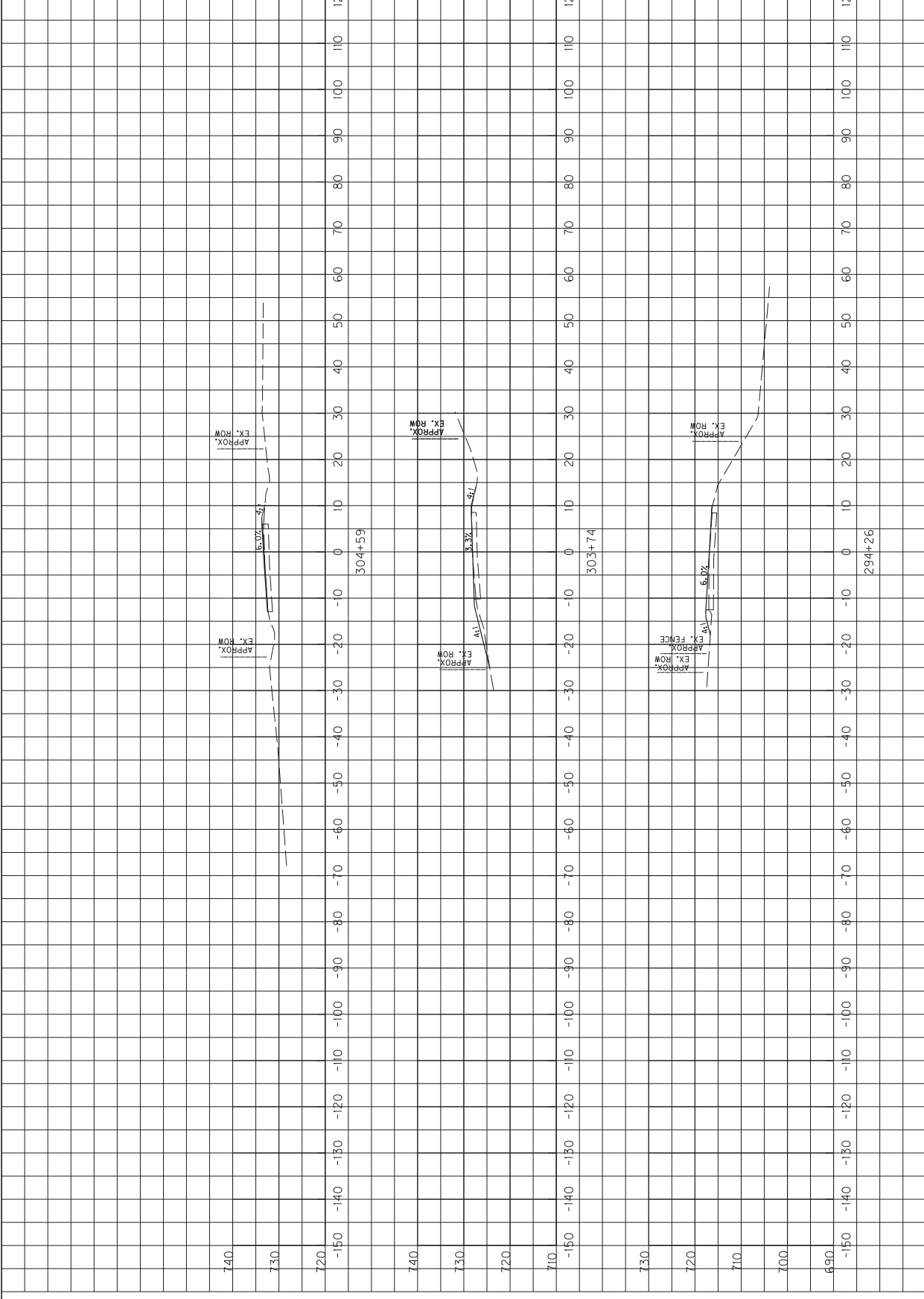


730	730
720	720
710	710
700	700
690	690
-150	150
-140	140
-130	130
-120	120
-110	110
-100	100
-90	90
-80	80
-70	70
-60	60
-50	50
-40	40
-30	30
-20	20
-10	10
0	0
10	10
20	20
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100
110	110
120	120
130	130
140	140
150	150

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

MAINLINE
STA. 291+90 TO STA. 293+71.30

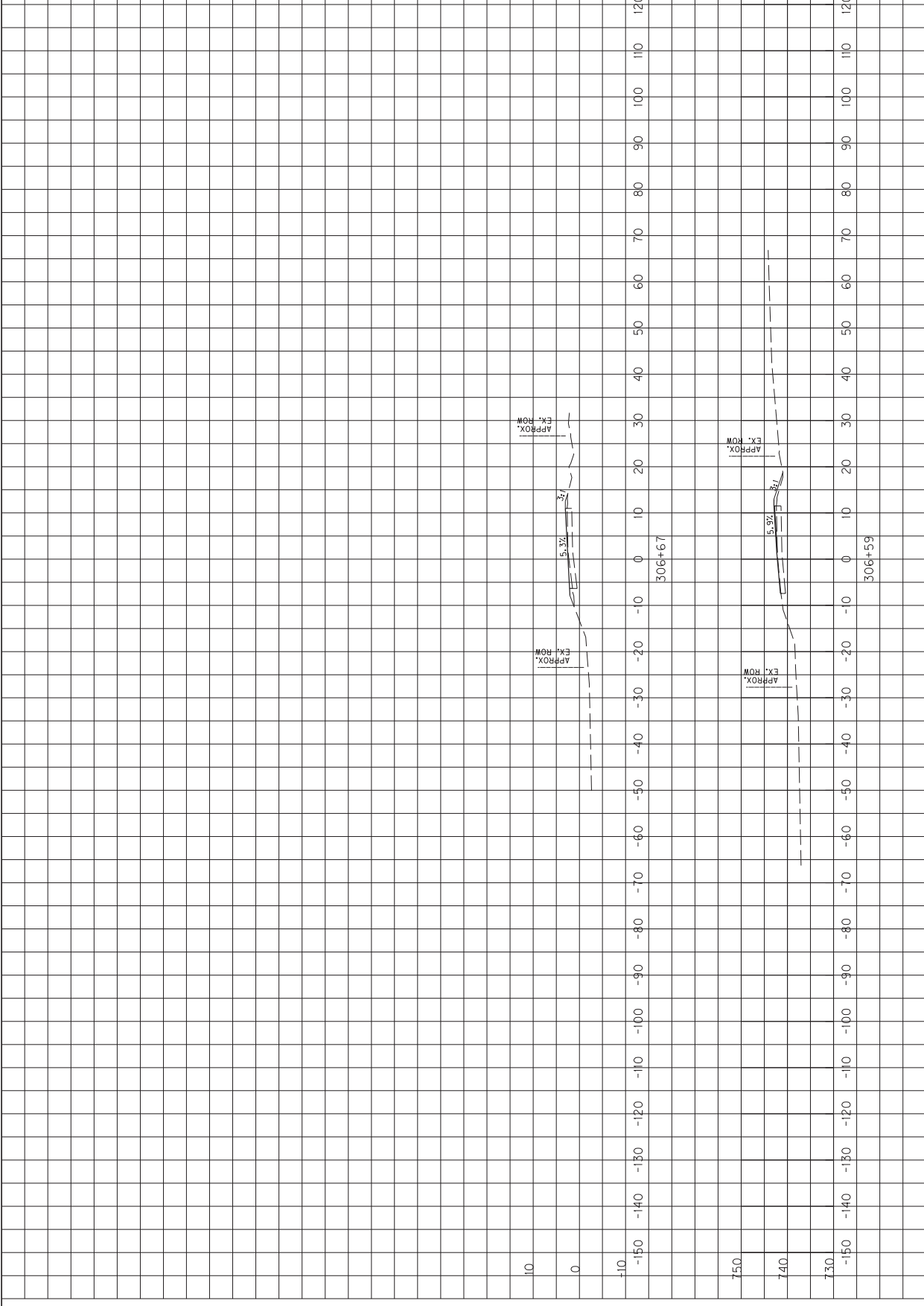
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X32



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

MAINLINE
STA. 294+26 TO STA. 304+59

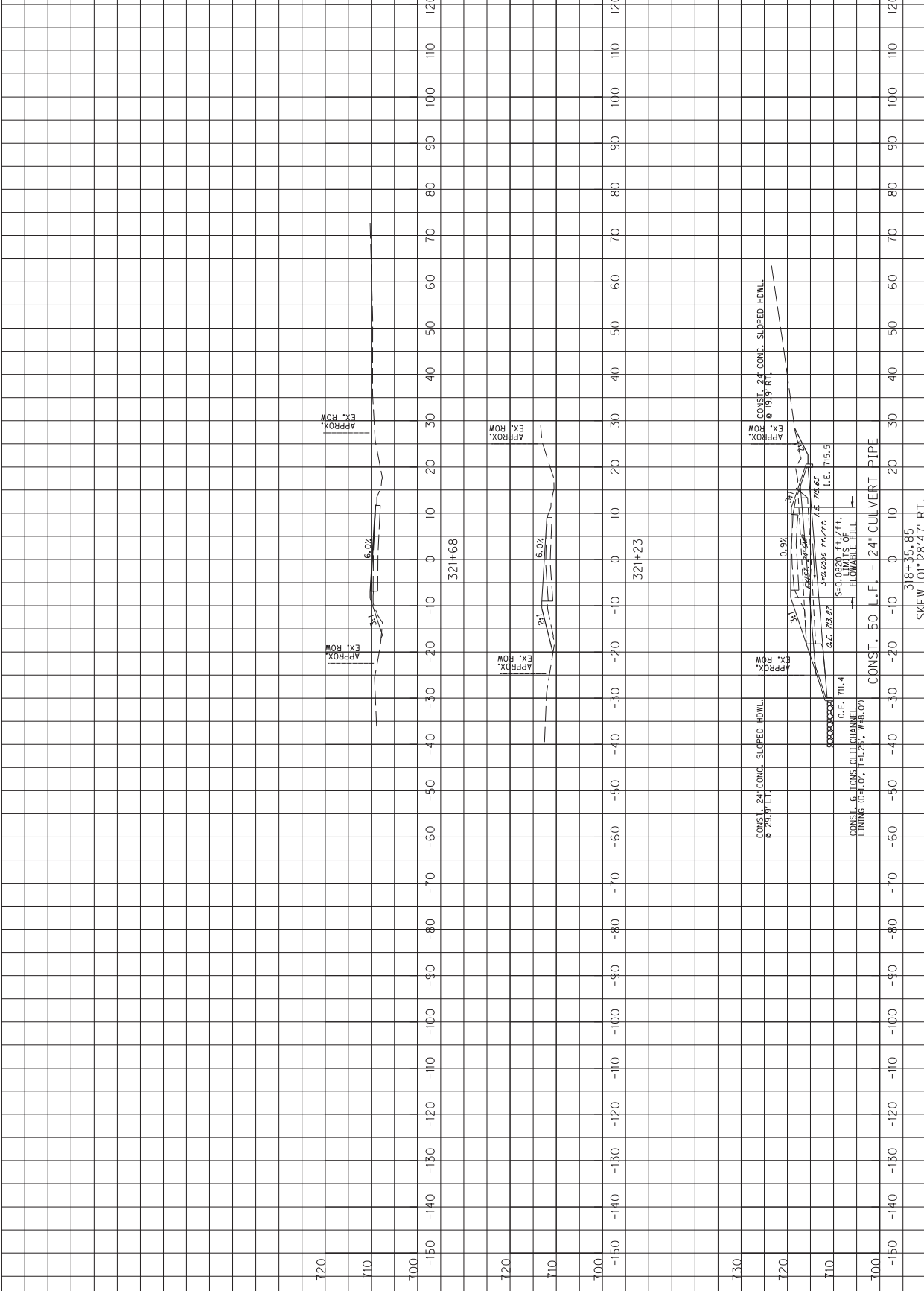
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X33



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

MAINLINE
STA. 306+59 TO STA. 306+67

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X34

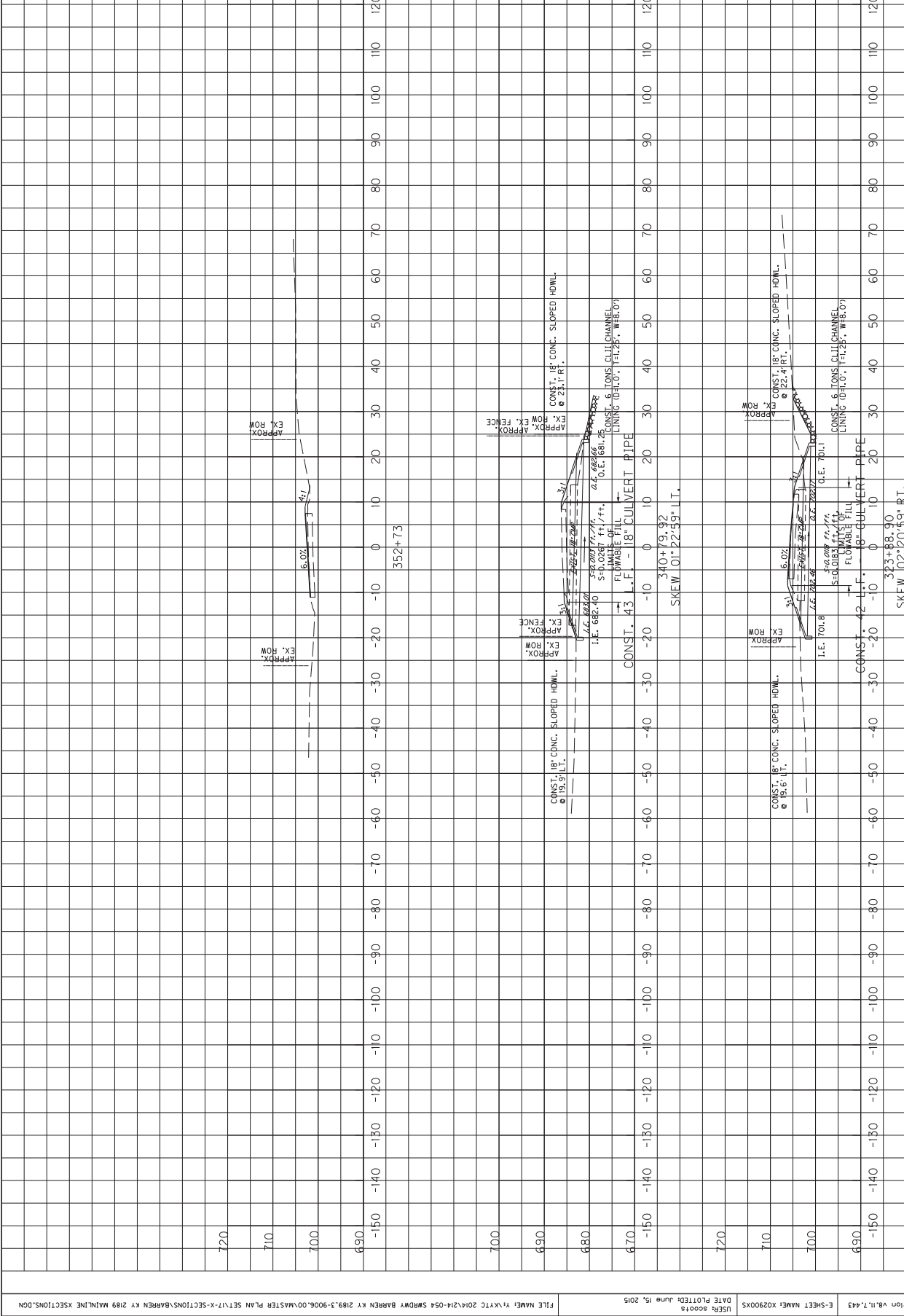


720	710	700	-150	-140	-130	-120	-110	-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
720	710	700																																

MicroStation v8.11.7.443
 E-SHEET NAME: X02800X5
 DATE PLOTTED: June 15, 2015
 USFR: scoots
 FILE NAME: Y:\KRYC 20M\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

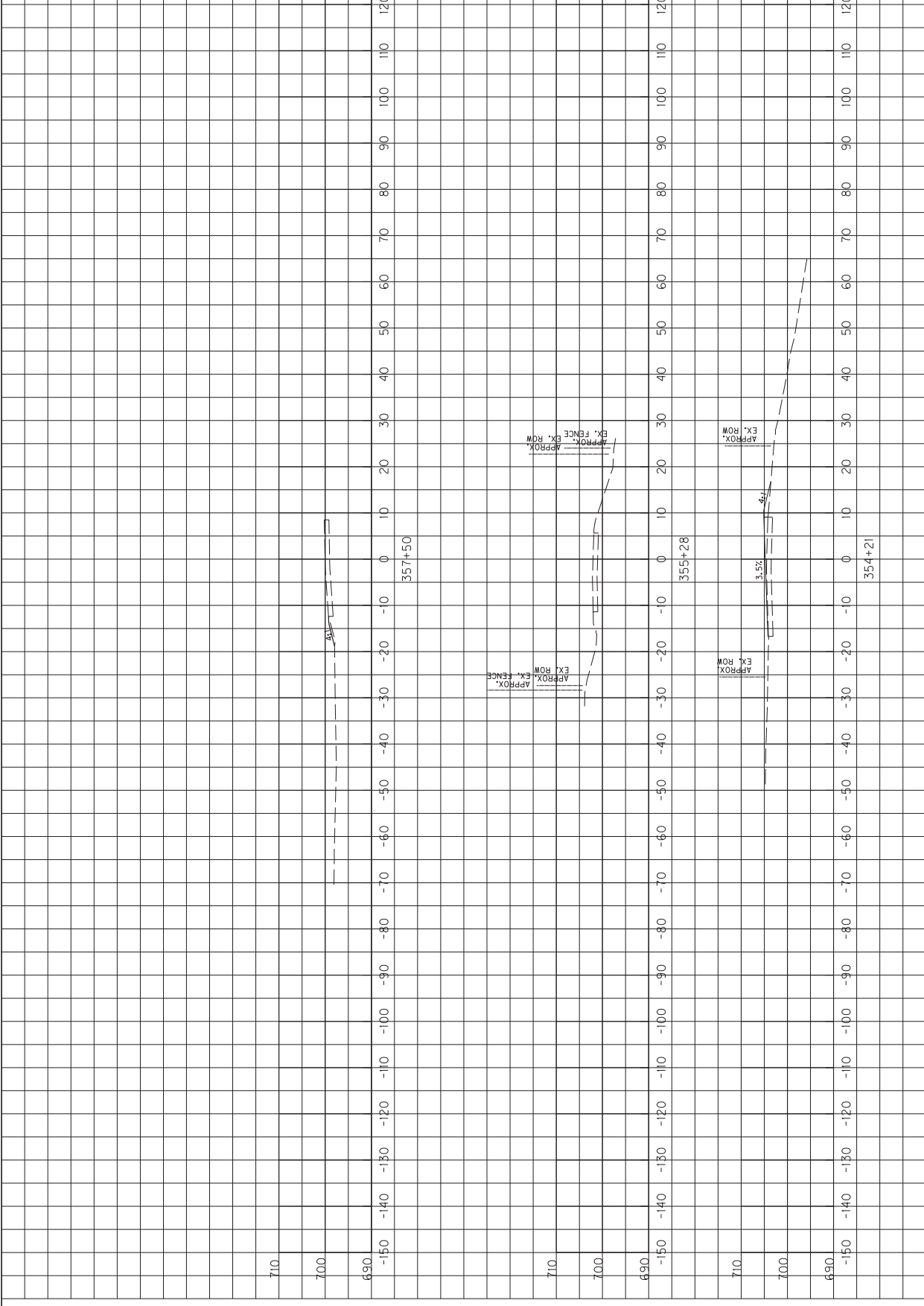
SCALE: 1" = 10' HORIZONTAL
 1" = 10' VERTICAL
 MAINLINE
 STA. 318+35.85 TO STA. 321+68

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X35



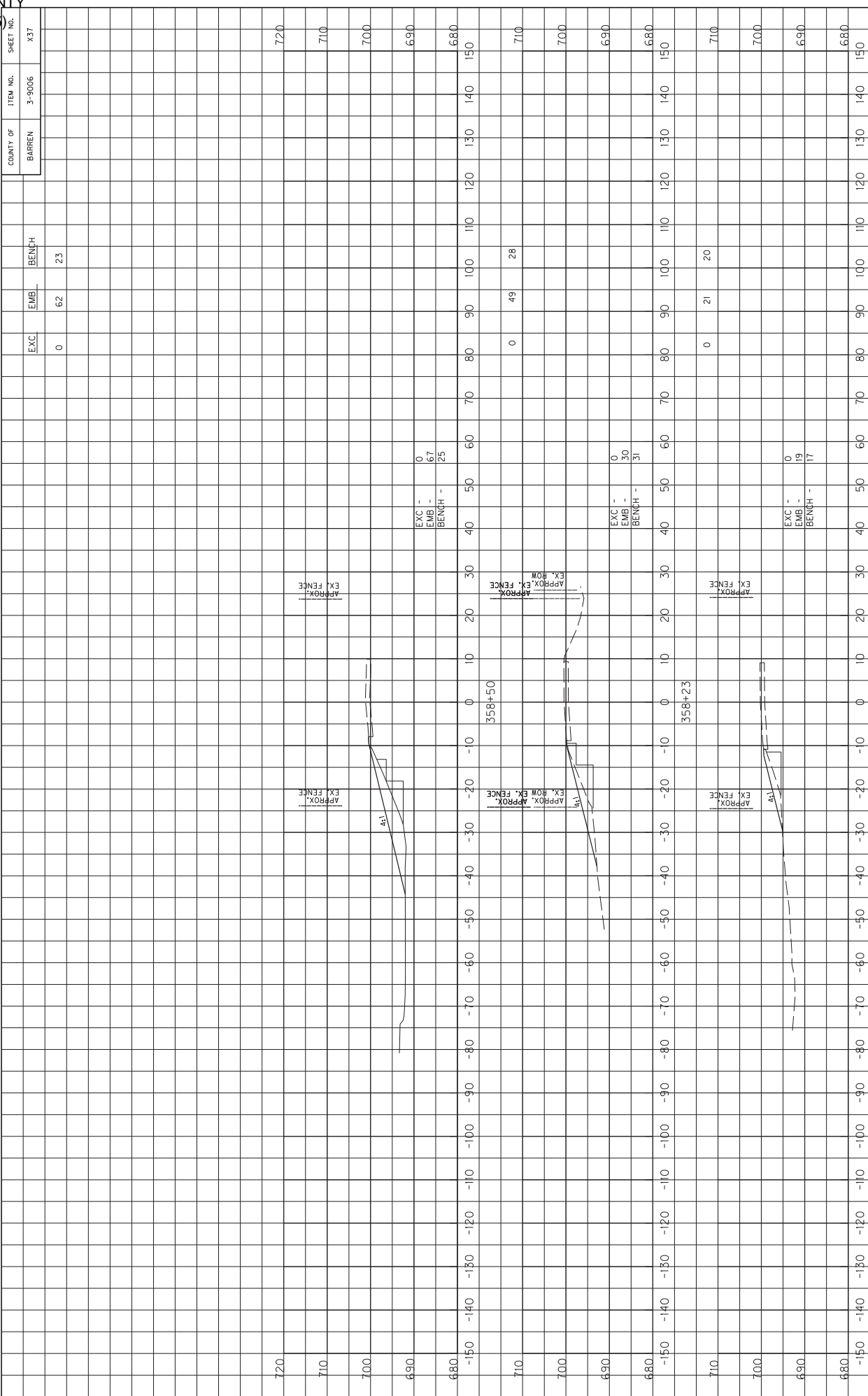
MAINLINE	STA. 323+88.90 TO STA. 352+73
SCALE:	1" = 10' HORIZONTAL 1" = 1' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X36



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

MAINLINE
STA. 354+21 TO STA. 357+50

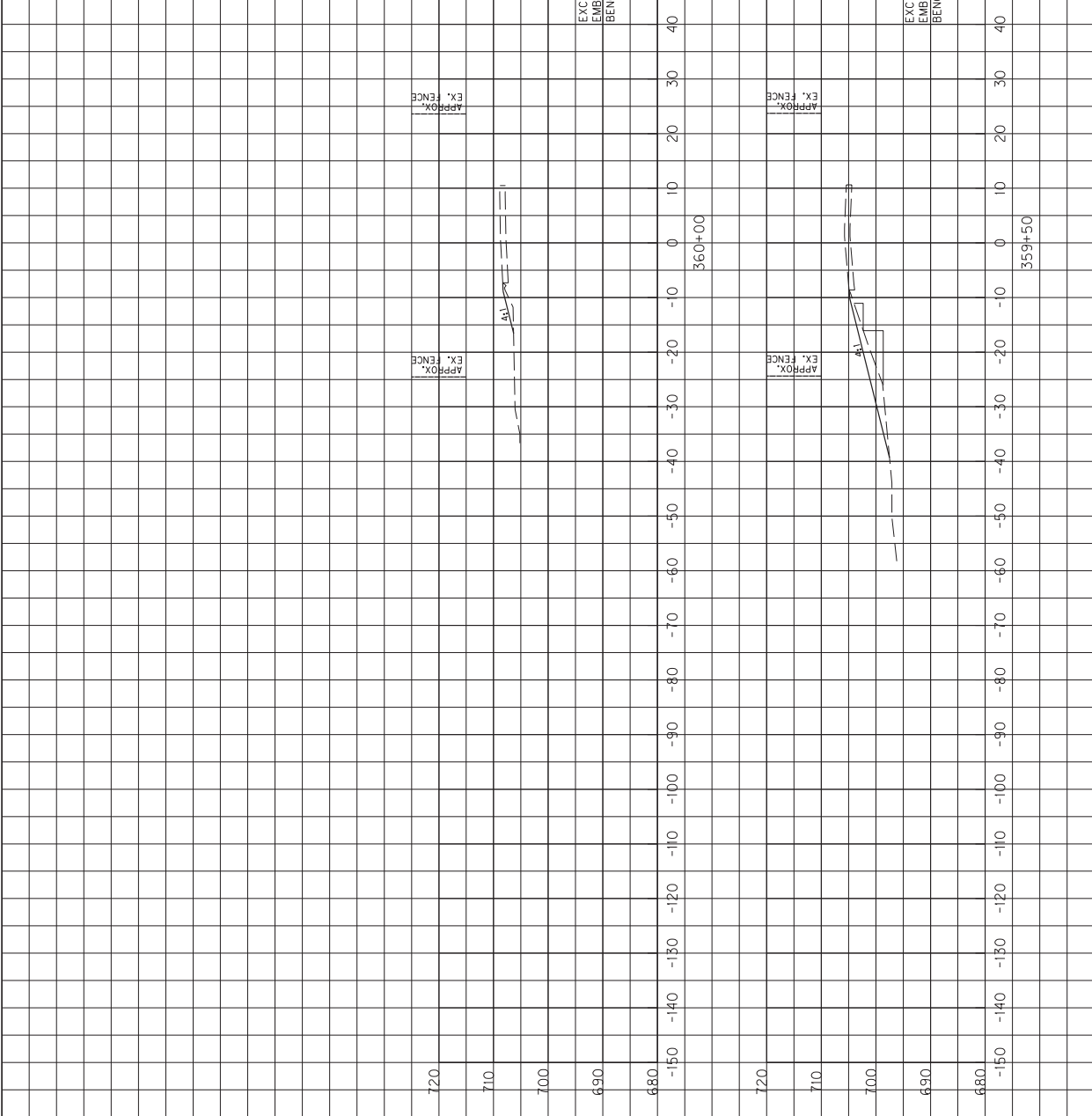


MicroStation v8.11.7.443 E-SHEET NAME: X02300X5 USFR2.scotts DATE PLOTTED: June 15, 2015
 FILE NAME: Y:\KTC 2014\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

COUNTY OF BARREN ITEM NO. 3-9006 SHEET NO. X37
 MAINLINE STA. 358+23 TO STA. 359+00
 SCALE: 1" = 10' HORIZONTAL 1" = 10' VERTICAL

COUNTY OF	BARREN
ITEM NO.	3-9006
SHEET NO.	X38

AREA TOTALS	STA. 359+00 - STA. 360+00	EXCL.	EMB.	BENCH
STA. 359+00	0	175	92	



EXC -	0
EMB -	6
BENCH -	0

EXC -	0
EMB -	34
BENCH -	23

FILE NAME: Y:\K\YC 20\1214-054 SMD\WY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

DATE PLOTTED: June 15, 2015

USFR SCOTS

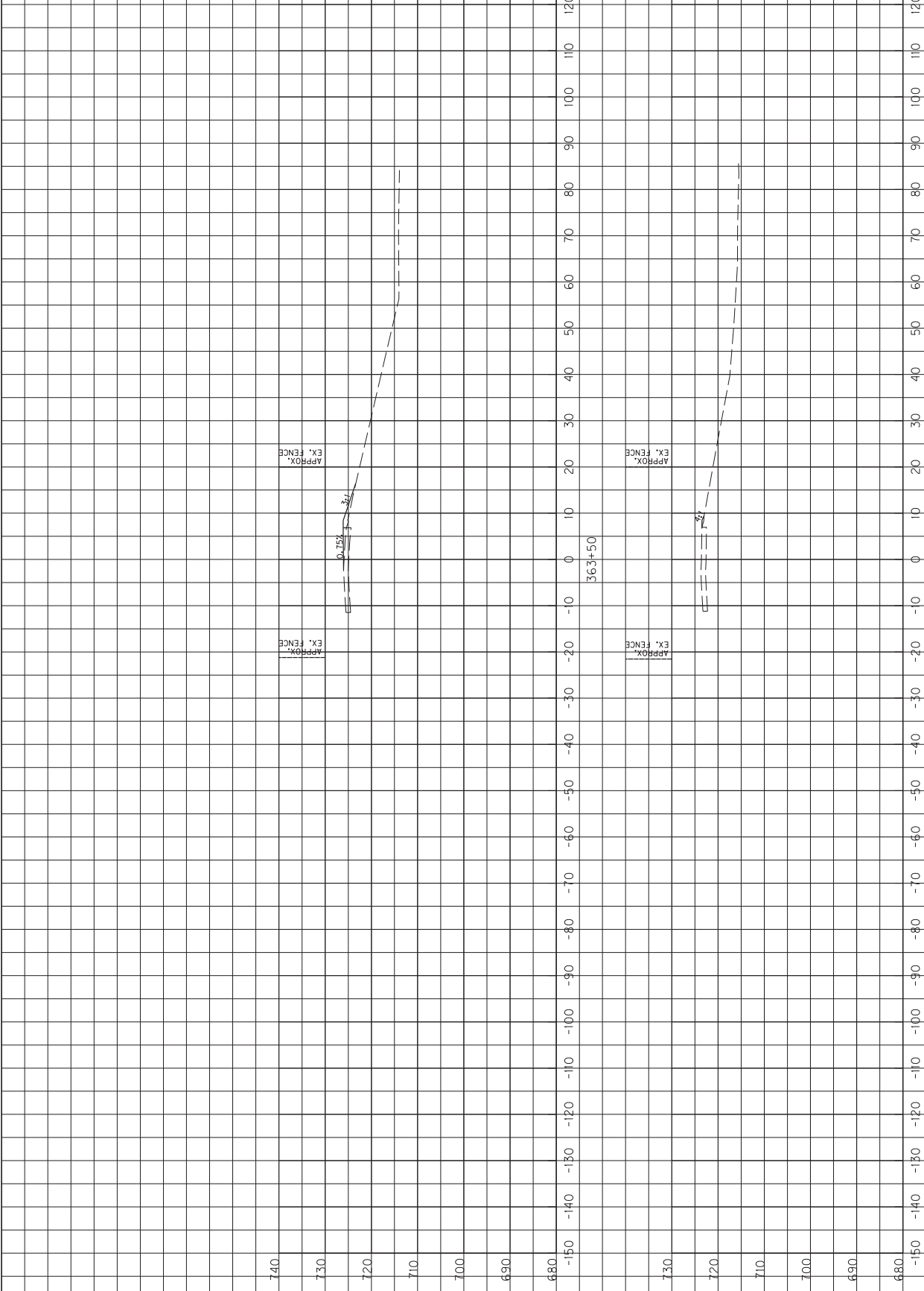
E-SHEET NAME: X03000X5

MicroStation v8.11.7.443

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

MAINLINE
STA. 359+50 TO STA. 360+50

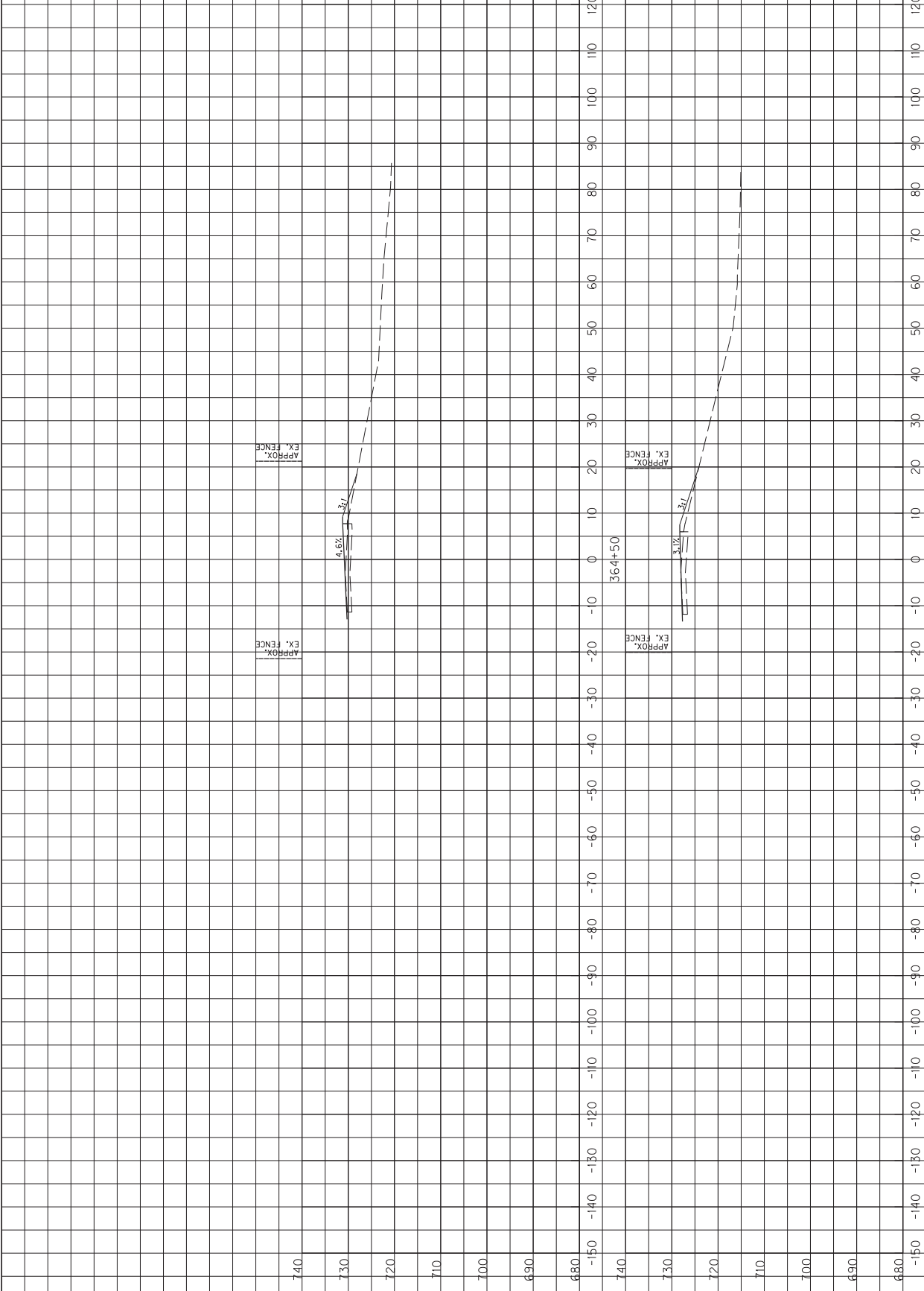
COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X39



MicroStation v8.11.7.443
E-SHEET NAME: X03100X5
DATE PLOTTED: June 15, 2015
USFR: scoots
FILE NAME: Y:\KYIC 2014\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

MAINLINE STA. 363+00 TO STA. 363+50	100	110	120	130	140	150
SCALE: 1" = 10' HORIZONTAL 1" = 10' VERTICAL	0	0	0	0	0	0
	680	690	700	710	720	730
	680	690	700	710	720	730

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X40

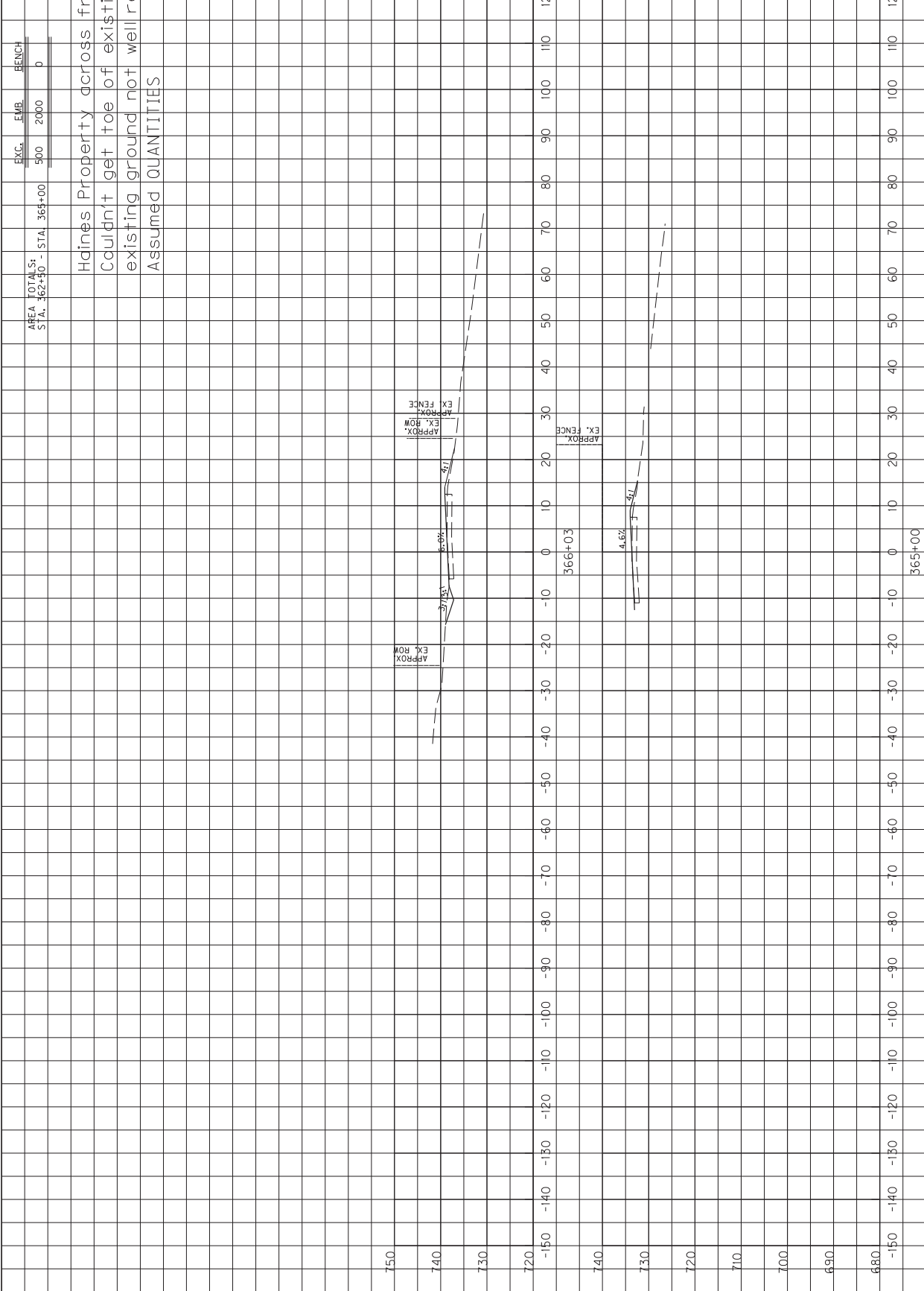


MAINLINE
STA. 364+00 TO STA. 364+50

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

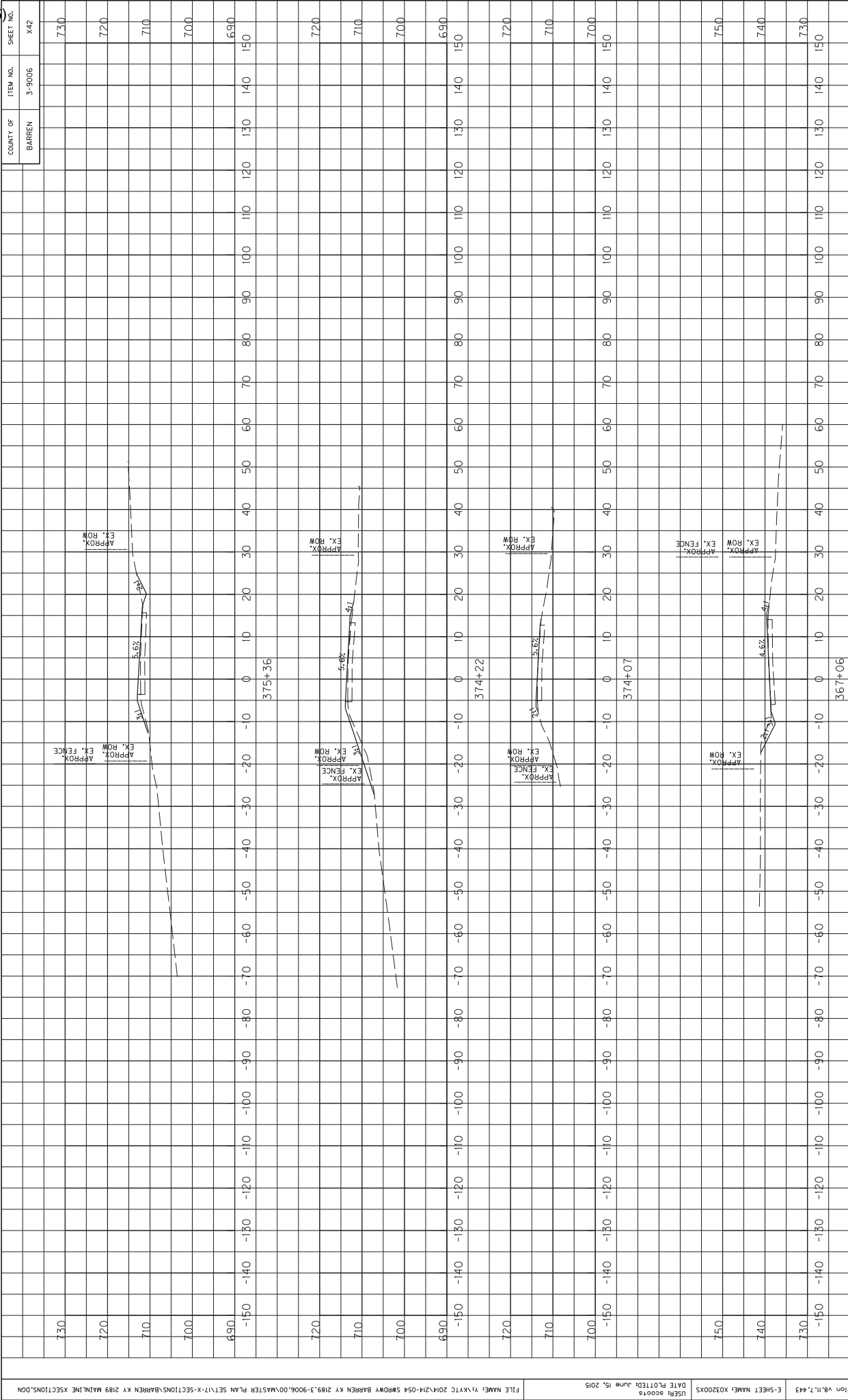
AREA TOTALS: STA. 362+30 - STA. 365+00	EXC.	EMB.	BENCH
	500	2000	0
COUNTY OF BARREN	ITEM NO. 3-9006	SHEET NO. 141	

Hines Property across from house
 Couldn't get toe of existing slope so
 existing ground not well represented
 Assumed QUANTITIES



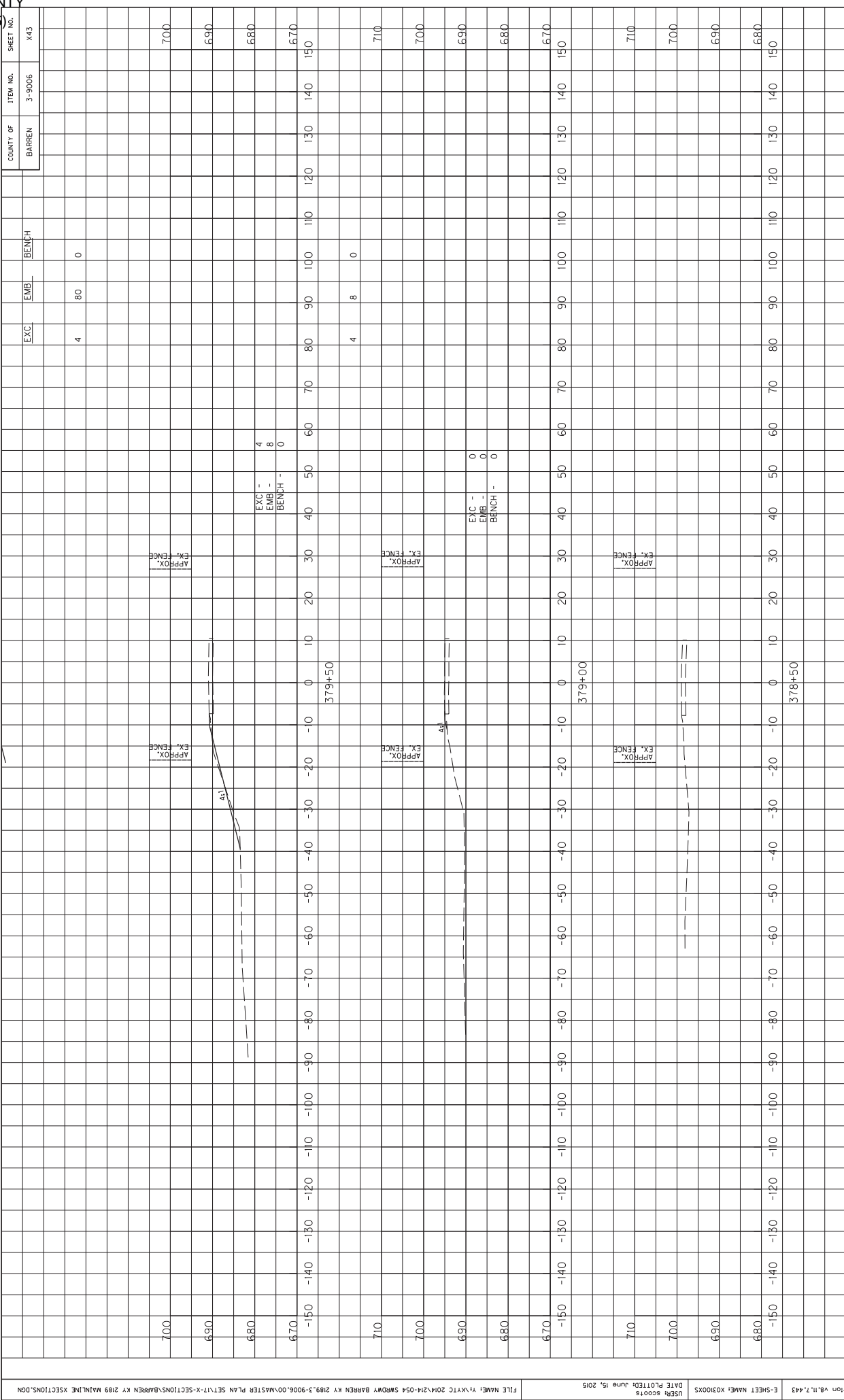
SCALE: 1" = 10' HORIZONTAL
 1" = 10' VERTICAL

MAINLINE
 STA. 365+00 TO STA. 366+03



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

MAINLINE
STA. 367+06 TO STA. 375+36



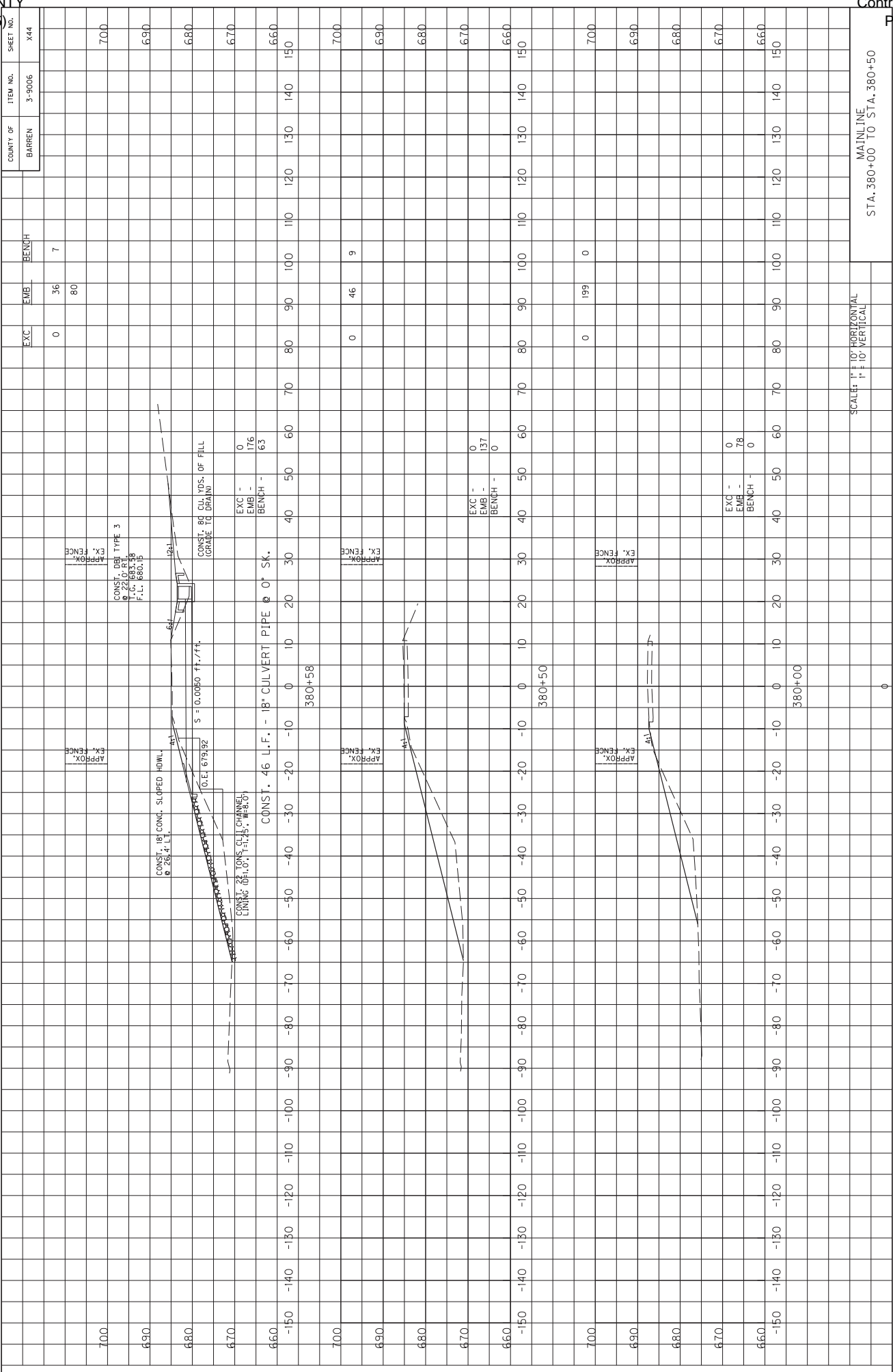
MicroStation v8.11.7.443 E-SHEET NAME: X03100XS USFR2.scotts DATE PLOTTED: June 15, 2015 FILE NAME: Y:\KYTC 20M\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SE\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

COUNTY OF	ITEM NO.	SHEET NO.
BARREN	3-9006	X43

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

EXC	EMB	BENCH	STATION
4	80	0	0
4	8	0	80
0	0	0	150

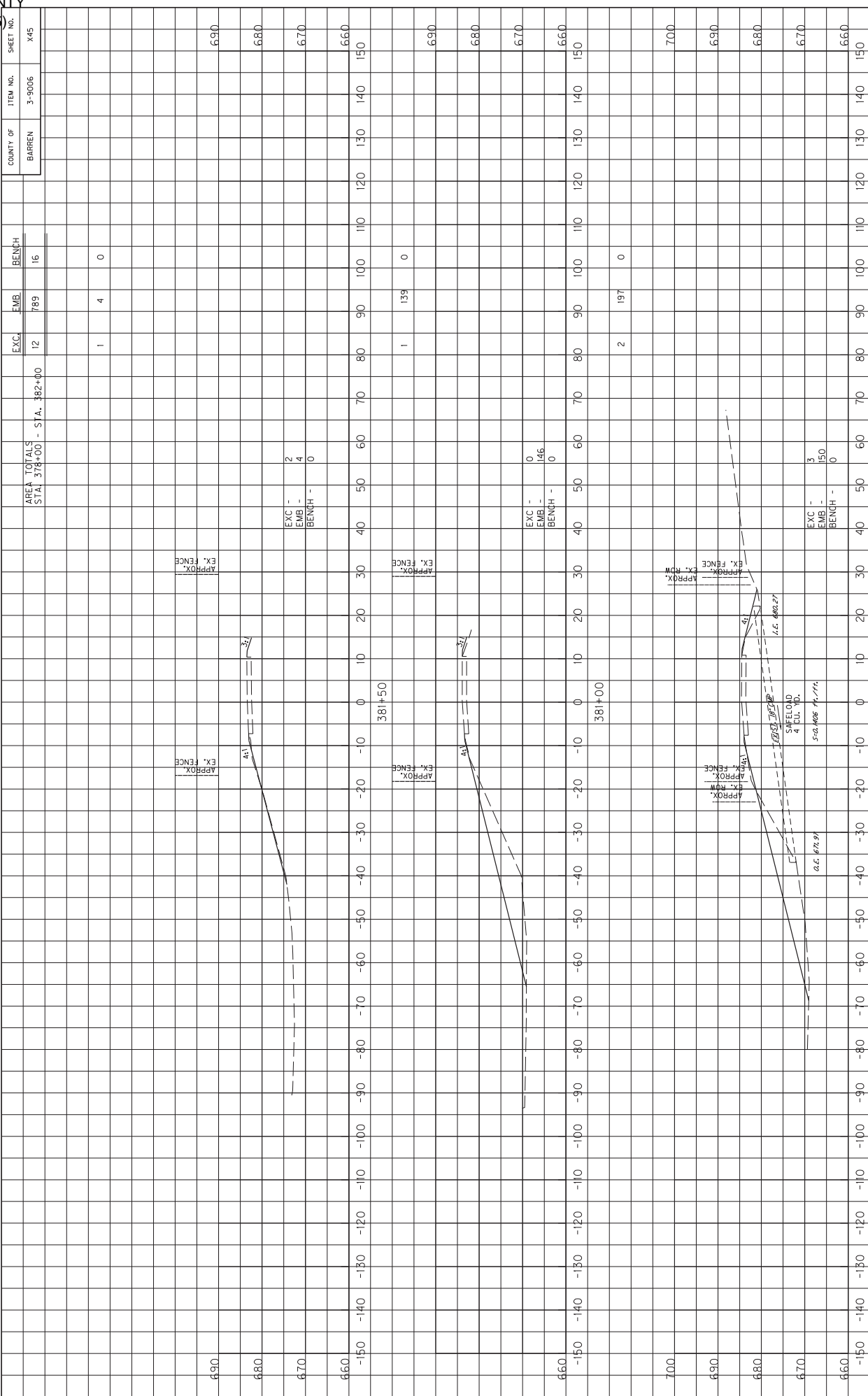
MAINLINE
STA. 378+50 TO STA. 379+50



MicroStation v8.11.7.443
E-SHEET NAME: X03100XS
DATE PLOTTED: June 15, 2015
USFR scoots
FILE NAME: Y:\KYIC 2014\214-054 SMOBY BAREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BAREN KY 2189 MAINLINE XSECTIONS.DGN

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

MAINLINE
STA. 380+00 TO STA. 380+50



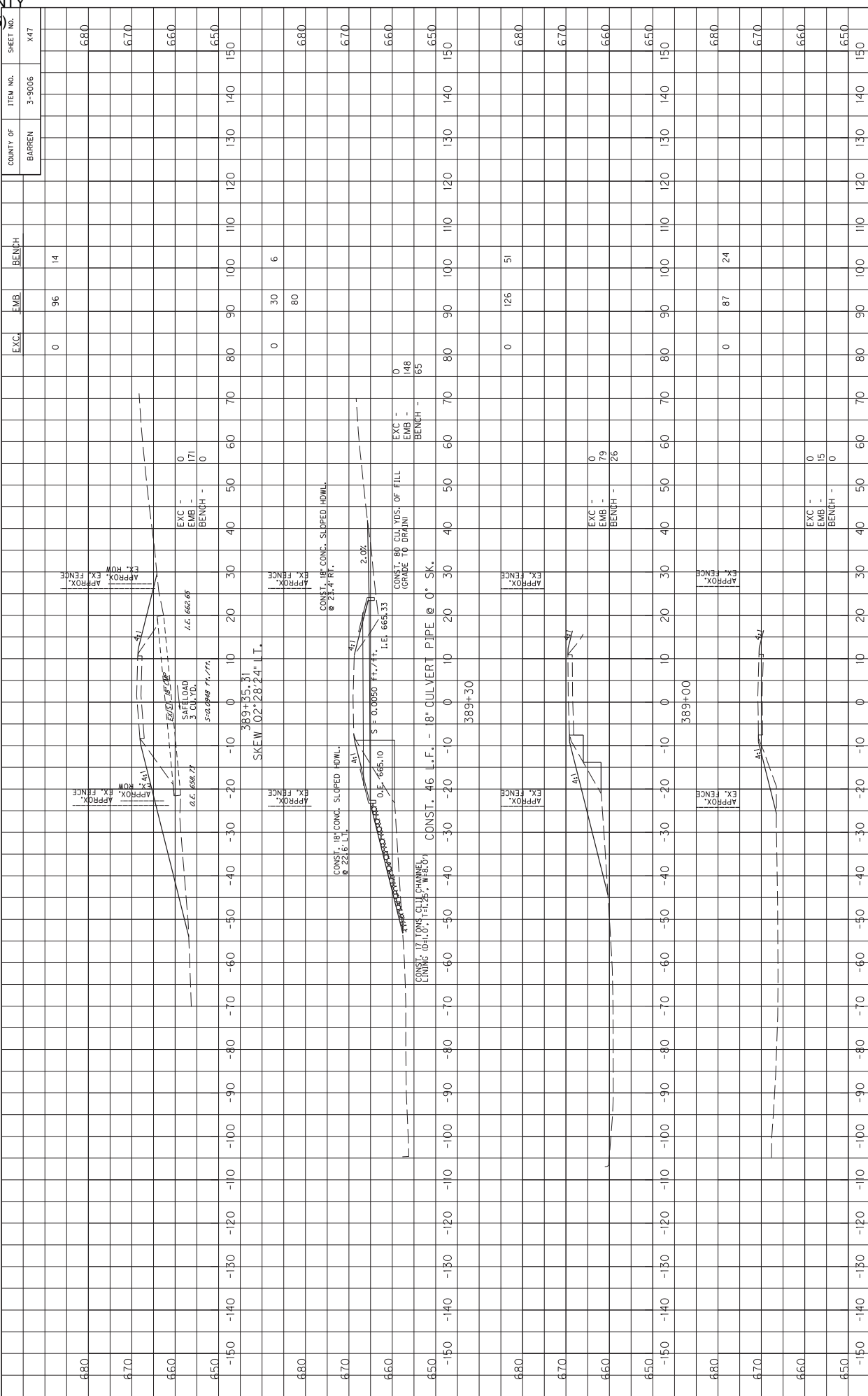
AREA TOTALS	EXC.	EMB.	BENCH
STA. 378+00 - STA. 382+00	12	789	16
STA. 380+00 - STA. 382+00	1	4	0
STA. 381+50 - STA. 381+50	1	139	0
STA. 381+00 - STA. 381+00	2	197	0
STA. 380+63.52 - STA. 380+63.52	0	146	0
STA. 380+00 - STA. 382+00	15	936	16

ELEVATION	STA. 378+00	STA. 380+00	STA. 381+50	STA. 381+00	STA. 380+63.52	STA. 382+00
6.90						
6.80						
6.70						
6.60						
6.50						
6.40						
6.30						
6.20						
6.10						
6.00						
5.90						
5.80						
5.70						
5.60						
5.50						
5.40						
5.30						
5.20						
5.10						
5.00						
4.90						
4.80						
4.70						
4.60						
4.50						
4.40						
4.30						
4.20						
4.10						
4.00						
3.90						
3.80						
3.70						
3.60						
3.50						
3.40						
3.30						
3.20						
3.10						
3.00						
2.90						
2.80						
2.70						
2.60						
2.50						
2.40						
2.30						
2.20						
2.10						
2.00						
1.90						
1.80						
1.70						
1.60						
1.50						
1.40						
1.30						
1.20						
1.10						
1.00						
0.90						
0.80						
0.70						
0.60						
0.50						
0.40						
0.30						
0.20						
0.10						
0.00						

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL
MAINLINE
STA. 381+00 TO STA. 382+00

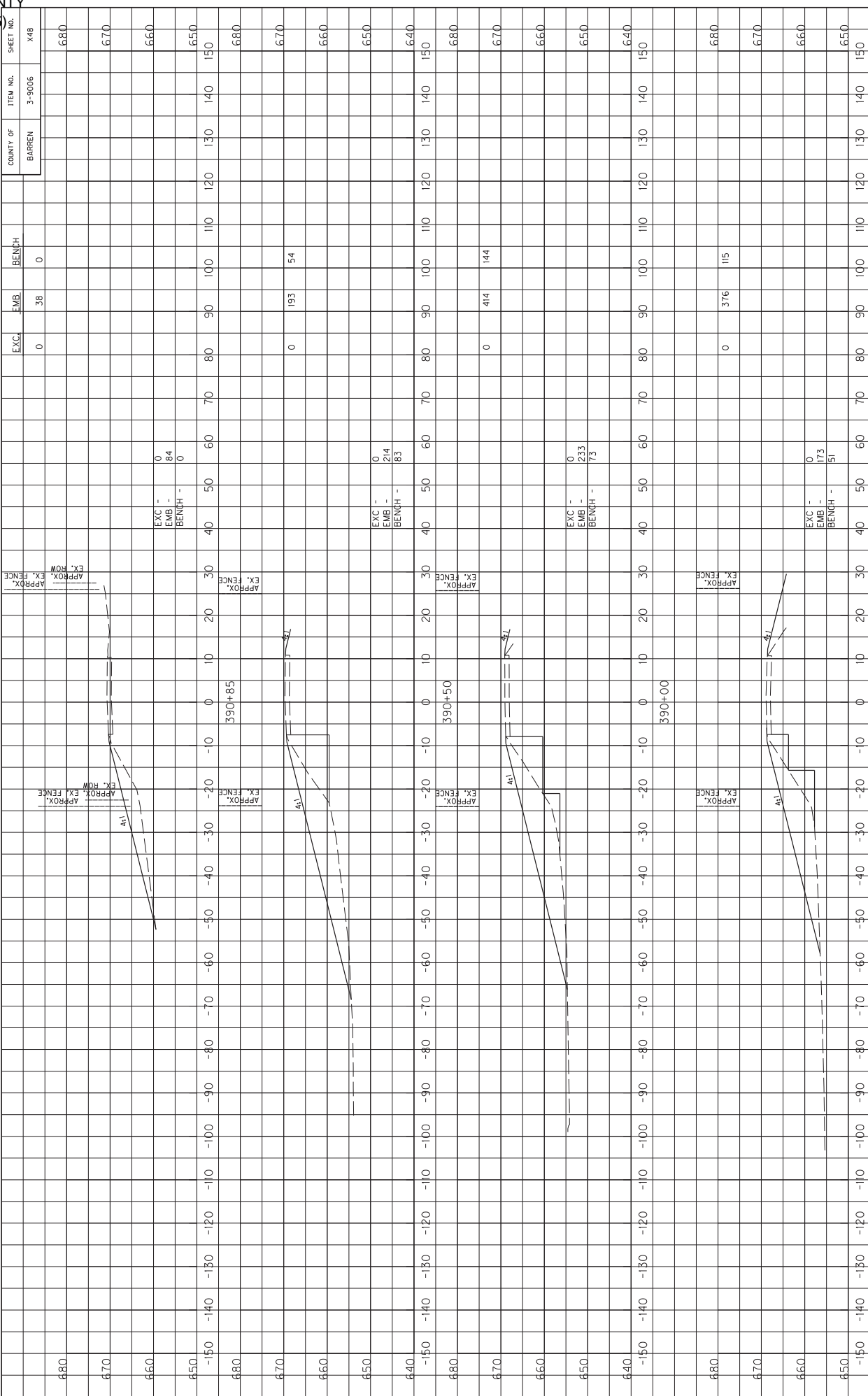
ITEM NO.	SHEET NO.	COUNTY OF	EMB	BENCH	EXC.	EMB	BENCH	EXC.	EMB	BENCH	EXC.	EMB	BENCH	EXC.	EMB	BENCH
3-9006	X46	BARREN	0	4	0	0	0	0	0	0	0	0	0	0	0	0
6.80																
6.70																
6.60																
6.80																
6.70																
6.60																
6.90																
6.80																
6.70																
6.60																
6.50																

MicroStation v8.11.7.443 E-SHEET NAME: X03500X5 DATE PLOTTED: June 15, 2015
 USFR: scoots
 FILE NAME: Y:\KYIC 20H\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SE\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN
 MAINLINE STA. 380+66.52 TO STA. 388+50
 SCALE: 1" = 10' HORIZONTAL
 1" = 10' VERTICAL
 0



Station	Excavation (Exc.)	Embarkment (Emb.)	Bench
-150	0	96	14
-140	0	96	14
-130	0	96	14
-120	0	96	14
-110	0	96	14
-100	0	96	14
-90	0	96	14
-80	0	96	14
-70	0	96	14
-60	0	96	14
-50	0	96	14
-40	0	96	14
-30	0	96	14
-20	0	96	14
-10	0	96	14
0	0	96	14
10	0	96	14
20	0	96	14
30	0	96	14
40	0	96	14
50	0	96	14
60	0	96	14
70	0	96	14
80	0	96	14
90	0	96	14
100	0	96	14
110	0	96	14
120	0	96	14
130	0	96	14
140	0	96	14
150	0	96	14

Station	Excavation (Exc.)	Embarkment (Emb.)	Bench
-150	0	96	14
-140	0	96	14
-130	0	96	14
-120	0	96	14
-110	0	96	14
-100	0	96	14
-90	0	96	14
-80	0	96	14
-70	0	96	14
-60	0	96	14
-50	0	96	14
-40	0	96	14
-30	0	96	14
-20	0	96	14
-10	0	96	14
0	0	96	14
10	0	96	14
20	0	96	14
30	0	96	14
40	0	96	14
50	0	96	14
60	0	96	14
70	0	96	14
80	0	96	14
90	0	96	14
100	0	96	14
110	0	96	14
120	0	96	14
130	0	96	14
140	0	96	14
150	0	96	14



MicroStation v8.11.7.443 E-SHEET NAME: X03500X5 DATE PLOTTED: June 15, 2015
 FILE NAME: Y:\KRYC 2014\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SE117-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN
 USFR3 SCOTTS

COUNTY OF BARREN ITEM NO. 3-9006 SHEET NO. X48
 STA. 390+00 TO STA. 391+50
 MAINLINE
 SCALE: 1" = 10' HORIZONTAL
 1" = 1' VERTICAL

PROJECT TOTALS:	EXCL	EMB	BENCH	COUNTY OF	ITEM NO.	SHEET NO.
AREA TOTALS:	1259	4545	516	BARREN	3-9006	X49
STA. 388+00 - STA. 392+00	13	1498	408			

Station	Exc	Emb	Bench	Notes
690				
680				
670				
660				
-150				
-140				
-130				
-120				
-110				
-100				
-90				
-80				
-70				
-60				
-50				
-40				
-30				
-20				
-10				
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
690				
680				
670				
660				
-150				
-140				
-130				
-120				
-110				
-100				
-90				
-80				
-70				
-60				
-50				
-40				
-30				
-20				
-10				
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
690				
680				
670				
660				
-150				
-140				
-130				
-120				
-110				
-100				
-90				
-80				
-70				
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690				
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670				
660				
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-140				
-130				
-120				
-110				
-100				
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-80				
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150				

MicroStation v8.11.7.443 E-SHEET NAME: X03400X5 USFR2 SCOTTS DATE PLOTTED: June 15, 2015
 FILE NAME: Y:\KYTC 20M\214-054 SMDRWY BARREN KY 2189.3-9006.00\MASTER PLAN SET\17-X-SECTIONS\BARREN KY 2189 MAINLINE XSECTIONS.DGN

SCALE: 1" = 10' HORIZONTAL
 1" = 10' VERTICAL
 MAINLINE
 STA. 392+00 TO STA. 417+04

PART II
SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2012* and *Standard Drawings, Edition of 2012 with the 2012 Revision*.

**Supplemental Specifications to the
Standard Specifications for Road and Bridge Construction, 2012 Edition
Effective with the July 31, 2015 Letting**

Subsection:	102.15 Process Agent.
Revision:	Replace the 1st paragraph with the following: Every corporation doing business with the Department shall submit evidence of compliance with KRS Sections 14A.4-010, 271B.11-010, 271B.11-070, 271B.11-080, 271B.5-010 and 271B.16-220, and file with the Department the name and address of the process agent upon whom process may be served.
Subsection:	105.13 Claims Resolution Process.
Revision:	Delete all references to TC 63-34 and TC 63-44 from the subsection as these forms are no longer available through the forms library and are forms generated within the AASHTO SiteManager software.
Subsection:	108.03 Preconstruction Conference.
Revision:	Replace 8) Staking with the following: 8) Staking (designated by a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.
Subsection:	109.07.02 Fuel.
Revision:	Revise item Crushed Aggregate Used for Embankment Stabilization to the following: Crushed Aggregate Used for Stabilization of Unsuitable Materials Used for Embankment Stabilization
	Delete the following item from the table. Crushed Sandstone Base (Cement Treated)
Subsection:	110.02 Demobilization.
Revision:	Replace the first part of the first sentence of the second paragraph with the following: Perform all work and operations necessary to accomplish final clean-up as specified in the first paragraph of Subsection 105.12;
Subsection:	112.03.12 Project Traffic Coordinator (PTC).
Revision:	Replace the last paragraph of this subsection with the following: Ensure the designated PTC has sufficient skill and experience to properly perform the task assigned and has successfully completed the qualification courses.
Subsection:	112.04.18 Diversions (By-Pass Detours).
Revision:	Insert the following sentence after the 2nd sentence of this subsection. The Department will not measure temporary drainage structures for payment when the contract documents provide the required drainage opening that must be maintained with the diversion. The temporary drainage structures shall be incidental to the construction of the diversion. If the contract documents fail to provide the required drainage opening needed for the diversion, the cost of the temporary drainage structure will be handled as extra work in accordance with section 109.04.
Subsection:	201.03.01 Contractor Staking.
Revision:	Replace the first paragraph with the following: Perform all necessary surveying under the general supervision of a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.

**Supplemental Specifications to the
Standard Specifications for Road and Bridge Construction, 2012 Edition
Effective with the July 31, 2015 Letting**

Subsection:	201.04.01 Contractor Staking.
Revision:	Replace the last sentence of the paragraph with the following: Complete the general layout of the project under the supervision of a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.
Subsection:	206.04.01 Embankment-in-Place.
Revision:	Replace the fourth paragraph with the following: The Department will not measure suitable excavation included in the original plans that is disposed of for payment and will consider it incidental to Embankment-in-Place.
Subsection:	208.02.01 Cement.
Revision:	Replace paragraph with the following: Select Type I or Type II cement conforming to Section 801. Use the same type cement throughout the work.
Subsection:	208.03.06 Curing and Protection.
Revision:	Replace the fourth paragraph with the following: Do not allow traffic or equipment on the finished surface until the stabilized subgrade has cured for a total of 7-days with an ambient air temperature above 40 degrees Fahrenheit. A curing day consists of a continuous 24-hour period in which the ambient air temperature does not fall below 40 degrees Fahrenheit. Curing days will not be calculated consecutively, but must total seven (7) , 24-hour days with the ambient air temperature remaining at or above 40 degrees Fahrenheit before traffic or equipment will be allowed to traverse the stabilized subgrade. The Department may allow a shortened curing period when the Contractor requests. The Contractor shall give the Department at least 3 day notice of the request for a shortened curing period. The Department will require a minimum of 3 curing days after final compaction. The Contractor shall furnish cores to the treated depth of the roadbed at 500 feet intervals for each lane when a shortened curing time is requested. The Department will test cores using an unconfined compression test. Roadbed cores must achieve a minimum strength requirement of 80 psi.
Subsection:	208.03.06 Curing and Protection.
Revision:	Replace paragraph eight with the following: At no expense to the Department, repair any damage to the subgrade caused by freezing.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	A) Seed Mixtures for Permanent Seeding.
Revision:	Revise Seed Mix Type I to the mixture shown below: 50% Kentucky 31 Tall Fescue (Festuca arundinacea) 35% Hard Fescue (Festuca (Festuca longifolia) 10% Ryegrass, Perennial (Lolium perenne) 5% White Dutch Clover (Trifolium repens)
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	A) Seed Mixtures for Permanent Seeding.
Number:	2)
Revision:	Replace the paragraph with the following: Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 4, 5, 6, and 7. Apply seed mix Type II at a minimum application rate of 100 pounds per acre. If adjacent to a golf course replace the crown vetch with Kentucky 31 Tall Fescue.

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Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	A) Seed Mixtures for Permanent Seeding.
Number:	3)
Revision:	Replace the paragraph with the following: Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 1, 2, 3, 8, 9, 10, 11, and 12. Apply seed mix Type III at a minimum application rate of 100 pounds per acre. If adjacent to crop land or golf course, replace the Sericea Lespedeza with Kentucky 31 Fescue.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	B) Procedures for Permanent Seeding.
Revision:	Delete the first sentence of the section.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	B) Procedures for Permanent Seeding.
Revision:	Replace the second and third sentence of the section with the following: Prepare a seedbed and apply an initial fertilizer that contains a minimum of 100 pounds of nitrogen, 100 pounds of phosphate, and 100 pounds of potash per acre. Apply agricultural limestone to the seedbed when the Engineer determines it is needed. When required, place agricultural limestone at a rate of 3 tons per acre.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	D) Top Dressing.
Revision:	Change the title of part to D) Fertilizer.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	D) Fertilizer.
Revision:	Replace the first paragraph with the following: Apply fertilizer at the beginning of the seeding operation and after vegetation is established. Use fertilizer delivered to the project in bags or bulk. Apply initial fertilizer to all areas prior to the seeding or sodding operation at the application rate specified in 212.03.03 B). Apply 20-10-10 fertilizer to the areas after vegetation has been established at a rate of 11.5 pounds per 1,000 square feet. Obtain approval from the Engineer prior to the 2nd fertilizer application. Reapply fertilizer to any area that has a streaked appearance. The reapplication shall be at no additional cost to the Department. Re-establish any vegetation severely damaged or destroyed because of an excessive application of fertilizer at no cost to the Department.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	D) Fertilizer.
Revision:	Delete the second paragraph.
Subsection:	212.04.04 Agricultural Limestone.
Revision:	Replace the entire section with the following: The Department will measure the quantity of agricultural limestone in tons.
Subsection:	212.04.05 Fertilizer.
Revision:	Replace the entire section with the following: The Department will measure fertilizer used in the seeding or sodding operations for payment. The Department will measure the quantity by tons.

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Subsection:	212.05 PAYMENT.												
Revision:	Delete the following item code:												
	<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Pay Item</u></th> <th><u>Pay Unit</u></th> </tr> </thead> <tbody> <tr> <td>05966</td> <td>Topdressing Fertilizer</td> <td>Ton</td> </tr> </tbody> </table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	05966	Topdressing Fertilizer	Ton						
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>											
05966	Topdressing Fertilizer	Ton											
Subsection:	212.05 PAYMENT.												
Revision:	Add the following pay items:												
	<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Pay Item</u></th> <th><u>Pay Unit</u></th> </tr> </thead> <tbody> <tr> <td>05963</td> <td>Initial Fertilizer</td> <td>Ton</td> </tr> <tr> <td>05964</td> <td>20-10-10 Fertilizer</td> <td>Ton</td> </tr> <tr> <td>05992</td> <td>Agricultural Limestone</td> <td>Ton</td> </tr> </tbody> </table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	05963	Initial Fertilizer	Ton	05964	20-10-10 Fertilizer	Ton	05992	Agricultural Limestone	Ton
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>											
05963	Initial Fertilizer	Ton											
05964	20-10-10 Fertilizer	Ton											
05992	Agricultural Limestone	Ton											
Subsection:	213.03.02 Progress Requirements.												
Revision:	Replace the last sentence of the third paragraph with the following: Additionally, the Department will apply a penalty equal to the liquidated damages when all aspects of work are not coordinated in an acceptable manner within 7 calendar days after written notification.												
Subsection:	213.03.05 Temporary Control Measures.												
Part:	E) Temporary Seeding and Protection.												
Revision:	Delete the second sentence of the first paragraph.												
Subsection:	304.02.01 Physical Properties.												
Table:	Required Geogrid Properties												
Revision:	Replace all references to Test Method "GRI-GG2-87" with ASTM D 7737.												
Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.												
Part:	B) Sampling.												
Revision:	Replace the second sentence with the following: The Department will determine when to obtain the quality control samples using the random-number feature of the mix design submittal and approval spreadsheet. The Department will randomly determine when to obtain the verification samples required in Subsections 402.03.03 and 402.03.04 using the Asphalt Mixture Sample Random Tonnage Generator.												
Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.												
Part:	D) Testing Responsibilities.												
Number:	3) VMA.												
Revision:	Add the following paragraph below Number 3) VMA: Retain the AV/VMA specimens and one additional corresponding G _{mm} sample for 5 working days for mixture verification testing by the Department. For Specialty Mixtures, retain a mixture sample for 5 working days for mixture verification testing by the Department. When the Department's test results do not verify that the Contractor's quality control test results are within the acceptable tolerances according to Subsection 402.03.03, retain the samples and specimens from the affected subplot(s) for the duration of the project.												
Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.												
Part:	D) Testing Responsibilities.												
Number:	4) Density.												
Revision:	Replace the second sentence of the Option A paragraph with the following: Perform coring by the end of the following work day.												

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Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.
Part:	D) Testing Responsibilities.
Number:	5) Gradation.
Revision:	Delete the second paragraph.
Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.
Part:	H) Unsatisfactory Work.
Number:	1) Based on Lab Data.
Revision:	Replace the second paragraph with the following: When the Engineer determines that safety concerns or other considerations prohibit an immediate shutdown, continue work and the Department will make an evaluation of acceptability according to Subsection 402.03.05.
Subsection:	402.03.03 Verification.
Revision:	Replace the first paragraph with the following: 402.03.03 Mixture Verification. For volumetric properties, the Department will perform a minimum of one verification test for AC, AV, and VMA according to the corresponding procedures as given in Subsection 402.03.02. The Department will randomly determine when to obtain the verification sample using the Asphalt Mixture Sample Random Tonnage Generator. For specialty mixtures, the Department will perform one AC and one gradation determination per lot according to the corresponding procedures as given in Subsection 402.03.02. However, Department personnel will not perform AC determinations according to KM 64-405. The Contractor will obtain a quality control sample at the same time the Department obtains the mixture verification sample and perform testing according to the procedures given in Subsection 402.03.02. If the Contractor's quality control sample is verified by the Department's test results within the tolerances provided below, the Contractor's sample will serve as the quality control sample for the affected subplot. The Department may perform the mixture verification test on the Contractor's equipment or on the Department's equipment.
Subsection:	402.03.03 Verification.
Part:	A) Evaluation of Subplot(s) Verified by Department.
Revision:	Replace the third sentence of the second paragraph with the following: When the paired <i>t</i> -test indicates that the Contractor's data and Department's data are possibly not from the same population, the Department will investigate the cause for the difference according to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.
Subsection:	402.03.03 Verification.
Part:	B) Evaluation of Subplots Not Verified by Department.
Revision:	Replace the third sentence of the first paragraph with the following: When differences between test results are not within the tolerances listed below, the Department will resolve the discrepancy according to Subsection 402.03.05.

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Subsection:	402.03.03 Verification.
Part:	B) Evaluation of Sublots Not Verified by Department.
Revision:	Replace the third sentence of the second paragraph with the following: When the <i>F</i> -test or <i>t</i> -test indicates that the Contractor's data and Department's data are possibly not from the same population, the Department will investigate the cause for the difference according to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.
Subsection:	402.03.03 Verification.
Part:	C) Test Data Patterns.
Revision:	Replace the second sentence with the following: When patterns indicate substantial differences between the verified and non-verified sublots, the Department will perform further comparative testing according to subsection 402.03.05.
Subsection:	402.03 CONSTRUCTION.
Revision:	Add the following subsection: 402.03.04 Testing Equipment and Technician Verification. For mixtures with a minimum quantity of 20,000 tons and for every 20,000 tons thereafter, the Department will obtain an additional verification sample at random using the Asphalt Mixture Sample Random Tonnage Generator in order to verify the integrity of the Contractor's and Department's laboratory testing equipment and technicians. The Department will obtain a mixture sample of at least 150 lb at the asphalt mixing plant according to KM 64-425 and split it according to AASHTO R 47. The Department will retain one split portion of the sample and provide the other portion to the Contractor. At a later time convenient to both parties, the Department and Contractor will simultaneously reheat the sample to the specified compaction temperature and test the mixture for AV and VMA using separate laboratory equipment according to the corresponding procedures given in Subsection 402.03.02. The Department will evaluate the differences in test results between the two laboratories. When the difference between the results for AV or VMA is not within ± 2.0 percent, the Department will investigate and resolve the discrepancy according to Subsection 402.03.05.
Subsection:	402.03.04 Dispute Resolution.
Revision:	Change the subsection number to 402.03.05.
Subsection:	402.05 PAYMENT.
Part:	Lot Pay Adjustment Schedule Compaction Option A Base and Binder Mixtures
Table:	AC
Revision:	Replace the Deviation from JMF(%) that corresponds to a Pay Value of 0.95 to ± 0.6 .
Subsection:	403.02.10 Material Transfer Vehicle (MTV).
Revision:	Replace the first sentence with the following: In addition to the equipment specified above, provide a MTV with the following minimum characteristics:
Subsection:	412.02.09 Material Transfer Vehicle (MTV).
Revision:	Replace the paragraph with the following: Provide and utilize a MTV with the minimum characteristics outlined in section 403.02.10.

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Subsection:	412.03.07 Placement and Compaction.
Revision:	Replace the first paragraph with the following: Use a MTV when placing SMA mixture in the driving lanes. The MTV is not required on ramps and/or shoulders unless specified in the contract. When the Engineer determines the use of the MTV is not practical for a portion of the project, the Engineer may waive its requirement for that portion of pavement by a letter documenting the waiver.
Subsection:	412.04 MEASUREMENT.
Revision:	Add the following subsection: 412.04.03. Material Transfer Vehicle (MTV). The Department will not measure the MTV for payment and will consider its use incidental to the asphalt mixture.
Subsection:	501.03.05 Weather Limitations and Protection.
Revision:	Replace the reference to Subsection 501.03.19 in Paragraph 5, with Subsection 501.03.20.
Subsection:	501.03.19 Surface Tolerances and Testing Surface.
Part:	B) Ride Quality.
Revision:	Add the following to the end of the first paragraph: The Department will specify if the ride quality requirements are Category A or Category B when ride quality is specified in the Contract. Category B ride quality requirements shall apply when the Department fails to classify which ride quality requirement will apply to the Contract.
Subsection:	603.03.06 Cofferdams.
Revision:	Replace the seventh sentence of paragraph one with the following: Submit drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.
Subsection:	605.03.04 Tack Welding.
Revision:	Insert the subsection and the following: 605.03.04 Tack Welding. The Department does not allow tack welding.
Subsection:	606.03.17 Special Requirements for Latex Concrete Overlays.
Part:	A) Existing Bridges and New Structures.
Number:	1) Prewetting and Grout-Bond Coat.
Revision:	Add the following sentence to the last paragraph: Do not apply a grout-bond coat on bridge decks prepared by hydrodemolition.
Subsection:	609.03 Construction.
Revision:	Replace Subsection 609.03.01 with the following: 609.03.01 A) Swinging the Spans. Before placing concrete slabs on steel spans or precast concrete release the temporary erection supports under the bridge and swing the span free on its supports. 609.03.01 B) Lift Loops. Cut all lift loops flush with the top of the precast beam once the beam is placed in the final location and prior to placing steel reinforcement. At locations where lift loops are cut, paint the top of the beam with galvanized or epoxy paint.

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Subsection:	611.03.02 Precast Unit Construction.
Revision:	Replace the first sentence of the subsection with the following: Construct units according to ASTM C1577, replacing Table 1 (Design Requirements for Precast Concrete Box Sections Under Earth, Dead and HL-93 Live Load Conditions) with KY Table 1 (Precast Culvert KYHL-93 Design Table) , and Section 605 with the following exceptions and additions:
Subsection:	613.03.01 Design.
Number:	2)
Revision:	Replace "AASHTO Standard Specifications for Highway Bridges" with "AASHTO LRFD Bridge Design Specifications"
Subsection:	615.06.02
Revision:	Add the following sentence to the end of the subsection. The ends of units shall be normal to walls and centerline except exposed edges shall be beveled ¾ inch.
Subsection:	615.06.03 Placement of Reinforcement in Precast 3-Sided Units.
Revision:	Replace the reference of 6.6 in the section to 615.06.06.
Subsection:	615.06.04 Placement of Reinforcement for Precast Endwalls.
Revision:	Replace the reference of 6.7 in the section to 615.06.07.
Subsection:	615.06.06 Laps, Welds, and Spacing for Precast 3-Sided Units.
Revision:	Replace the subsection with the following: Tension splices in the circumferential reinforcement shall be made by lapping. Laps may not be tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. The overlap of welded wire fabric shall be measured between the outer most longitudinal wires of each fabric sheet. For deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. For splices other than tension splices, the overlap shall be a minimum of 12" for welded wire fabric or deformed billet-steel bars. The spacing center to center of the circumferential wires in a wire fabric sheet shall be no less than 2 inches and no more than 4 inches. The spacing center to center of the longitudinal wires shall not be more than 8 inches. The spacing center to center of the longitudinal distribution steel for either line of reinforcing in the top slab shall be not more than 16 inches.
Subsection:	615.06.07 Laps, Welds, and Spacing for Precast Endwalls.
Revision:	Replace the subsection with the following: Splices in the reinforcement shall be made by lapping. Laps may not be tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. For deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. The spacing center-to-center of the wire fabric sheet shall not be less than 2 inches or more than 8 inches.

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Subsection:	615.08.01 Type of Test Specimen.
Revision:	Replace the subsection with the following: Start-up slump, air content, unit weight, and temperature tests will be performed each day on the first batch of concrete. Acceptable start-up results are required for production of the first unit. After the first unit has been established, random acceptance testing is performed daily for each 50 yd ³ (or fraction thereof). In addition to the slump, air content, unit weight, and temperature tests, a minimum of one set of cylinders shall be required each time plastic property testing is performed.
Subsection:	615.08.02 Compression Testing.
Revision:	Delete the second sentence.
Subsection:	615.08.04 Acceptability of Core Tests.
Revision:	Delete the entire subsection.
Subsection:	615.12 Inspection.
Revision:	Add the following sentences to the end of the subsection: Units will arrive at jobsite with the "Kentucky Oval" stamped on the unit which is an indication of acceptable inspection at the production facility. Units shall be inspected upon arrival for any evidence of damage resulting from transport to the jobsite.
Subsection:	701.04.16 Deduction for Pipe Deflection.
Revision:	Insert the following at the end of the paragraph: The section length is determined by the length of the pipe between joints where the failure occurred.
Subsection:	716.02.02 Paint.
Revision:	Replace sentence with the following: Conform to Section 821.
Subsection:	716.03 CONSTRUCTION.
Revision:	Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims,
Subsection:	716.03.02 Lighting Standard Installation.
Revision:	Replace the second sentence with the following: Regardless of the station and offset noted, locate all poles/bases behind the guardrail a minimum of four feet from the front face of the guardrail to the front face of the pole base.
Subsection:	716.03.02 Lighting Standard Installation.
Part:	A) Conventional Installation.
Revision:	Replace the third sentence with the following: Orient the transformer base so the door is positioned on the side away from on-coming traffic.
Subsection:	716.03.02 Lighting Standard Installation.
Part:	A) Conventional Installation.
Number:	1) Breakaway Installation and Requirements.
Revision:	Replace the first sentence with the following: For breakaway supports, conform to Section 12 of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection:	716.03.02 Lighting Standard Installation.
Part:	B) High Mast Installation
Revision:	Replace the first sentence with the following: Install each high mast pole as noted on plans.

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Subsection: 716.03.02 Lighting Standard Installation.
Part: B) High Mast Installation
Number: 2) Concrete Base Installation
Revision: Modification of Chart and succeeding paragraphs within this section:

Drilled Shaft Depth Data							
Level Ground		3:1 Ground Slope		2:1 Ground Slope		1.5:1 Ground Slope ⁽²⁾	
Soil	Rock	Soil	Rock	Soil	Rock	Soil	Rock
17 ft	7 ft	19 ft	7 ft	20 ft	7 ft	(1)	7 ft

Steel Requirements			
Vertical Bars		Ties or Spiral	
Size	Total	Size	Spacing or Pitch
#10	16	#4	12 inch

(1): Shaft length is 22' for cohesive soil only. For cohesionless soil, contact geotechnical branch for design.
 (2): Do not construct high mast drilled shafts on ground slopes steeper than 1.5:1 without the approval of the Division of Traffic.

If rock is encountered during drilling operations and confirmed by the engineer to be of sound quality, the shaft is only required to be further advanced into the rock by the length of rock socket shown in the table. The total length of the shaft need not be longer than that of soil alone. Both longitudinal rebar length and number of ties or spiral length shall be adjusted accordingly.

If a shorter depth is desired for the drilled shaft, the contractor shall provide, for the state's review and approval, a detailed column design with individual site specific soil and rock analysis performed and approved by a Professional Engineer licensed in the Commonwealth of Kentucky.

Spiral reinforcement may be substituted for ties. If spiral reinforcement is used, one and one-half closed coils shall be provided at the ends of each spiral unit. Subsurface conditions consisting of very soft clay or very loose saturated sand could result in soil parameters weaker than those assumed. Engineer shall consult with the geotechnical branch if such conditions are encountered.

The bottom of the drilled hole shall be firm and thoroughly cleaned so no loose or compressible materials are present at the time of the concrete placement. If the drilled hole contains standing water, the concrete shall be placed using a tremie to displace water. Continuous concrete flow will be required to insure full displacement of any water.

The reinforcement and anchor bolts shall be adequately supported in the proper positions so no movement occurs during concrete placement. Welding of anchor bolts to the reinforcing cage is unacceptable, templates shall be used. Exposed portions of the foundation shall be formed to create a smooth finished surface. All forming shall be removed upon completion of foundation construction.

Subsection: 716.03.03 Trenching.
Part: A) Trenching of Conduit for Highmast Ducted Cables.
Revision: Add the following after the first sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain the required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.

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Subsection:	716.03.03 Trenching.
Part:	B) Trenching of Conduit for Non-Highmast Cables.
Revision:	Add the following after the second sentence: If depths greater than 24 inches are necessary for either situation listed previously, obtain the Engineer's approval and maintain the required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.
Subsection:	716.03.10 Junction Boxes.
Revision:	Replace subsection title with the following: Electrical Junction Box.
Subsection:	716.04.07 Pole with Secondary Control Equipment.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure mounting the cabinet to the pole, backfilling, restoration, any necessary hardware to anchor pole, or electrical inspection fees, and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breaker, contactor, manual switch, ground rods, and ground wires and will consider them incidental to this item of work.
Subsection:	716.04.08 Lighting Control Equipment.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure constructing the concrete base, excavation, backfilling, restoration, any necessary anchors, or electrical inspection fees, and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breakers, contactor, manual switch, ground rods, and ground wires and will consider them incidental to this item of work.
Subsection:	716.04.09 Luminaire.
Revision:	Replace the first sentence with the following: The Department will measure the quantity as each individual unit furnished and installed.
Subsection:	716.04.10 Fused Connector Kits.
Revision:	Replace the first sentence with the following: The Department will measure the quantity as each individual unit furnished and installed.
Subsection:	716.04.13 Junction Box.
Revision:	Replace the subsection title with the following: Electrical Junction Box Type Various.
Subsection:	716.04.13 Junction Box.
Part:	A) Junction Electrical.
Revision:	Rename A) Junction Electrical to the following: A) Electrical Junction Box.
Subsection:	716.04.14 Trenching and Backfilling.
Revision:	Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape (if required), the restoration of disturbed areas to original condition, and will consider them incidental to this item of work.

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Subsection:	716.04.18 Remove Lighting.															
Revision:	Replace the paragraph with the following: The Department will measure the quantity as a lump sum for the removal of lighting equipment. The Department will not measure the disposal of all equipment and materials off the project by the contractor. The Department also will not measure the transportation of the materials and will consider them incidental to this item of work.															
Subsection:	716.04.20 Bore and Jack Conduit.															
Revision:	Replace the paragraph with the following: The Department will measure the quantity in linear feet. This item shall include all work necessary for boring and installing conduit under an existing roadway. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.															
Subsection:	716.05 PAYMENT.															
Revision:	Replace items 04810-04811, 20391NS835 and, 20392NS835 under <u>Code</u> , <u>Pay Item</u> , and <u>Pay Unit</u> with the following:															
	<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Pay Item</u></th> <th><u>Pay Unit</u></th> </tr> </thead> <tbody> <tr> <td>04810</td> <td>Electrical Junction Box</td> <td>Each</td> </tr> <tr> <td>04811</td> <td>Electrical Junction Box Type B</td> <td>Each</td> </tr> <tr> <td>20391NS835</td> <td>Electrical Junction Box Type A</td> <td>Each</td> </tr> <tr> <td>20392NS835</td> <td>Electrical Junction Box Type C</td> <td>Each</td> </tr> </tbody> </table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	04810	Electrical Junction Box	Each	04811	Electrical Junction Box Type B	Each	20391NS835	Electrical Junction Box Type A	Each	20392NS835	Electrical Junction Box Type C	Each
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04810	Electrical Junction Box	Each														
04811	Electrical Junction Box Type B	Each														
20391NS835	Electrical Junction Box Type A	Each														
20392NS835	Electrical Junction Box Type C	Each														
Subsection:	723.02.02 Paint.															
Revision:	Replace sentence with the following: Conform to Section 821.															
Subsection:	723.03 CONSTRUCTION.															
Revision:	Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims,															
Subsection:	723.03.02 Poles and Bases Installation.															
Revision:	Replace the first sentence with the following: Regardless of the station and offset noted, locate all poles/bases behind the guardrail a minimum of four feet from the front face of the guardrail to the front face of the pole base.															
Subsection:	723.03.02 Poles and Bases Installation.															
Part:	A) Steel Strain and Mastarm Poles Installation															
Revision:	Replace the second paragraph with the following: For concrete base installation, see Section 716.03.02, B), 2), Paragraphs 2-7. Drilled shaft depth shall be based on the soil conditions encountered during drilling and slope condition at the site. Refer to the design chart below:															
Subsection:	723.03.02 Poles and Bases Installation.															
Part:	B) Pedestal or Pedestal Post Installation.															
Revision:	Replace the fourth sentence of the paragraph with the following: For breakaway supports, conform to Section 12 of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.															

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Subsection:	723.03.03 Trenching.
Part:	A) Under Roadway.
Revision:	Add the following after the second sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain either required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.
Subsection:	723.03.11 Wiring Installation.
Revision:	Add the following sentence between the fifth and sixth sentences: Provide an extra two feet of loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.
Subsection:	723.03.12 Loop Installation.
Revision:	Replace the fourth sentence of the 2nd paragraph with the following: Provide an extra two feet of loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.
Subsection:	723.04.02 Junction Box.
Revision:	Replace subsection title with the following: Electrical Junction Box Type Various.
Subsection:	723.04.03 Trenching and Backfilling.
Revision:	Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape (if required), the restoration of disturbed areas to original condition, and will consider them incidental to this item of work.
Subsection:	723.04.10 Signal Pedestal.
Revision:	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, specified conduits, fittings, ground rod, ground wire, backfilling, restoring disturbed areas, or other necessary hardware and will consider them incidental to this item of work.
Subsection:	723.04.15 Loop Saw Slot and Fill.
Revision:	Replace the second sentence with the following: The Department will not measure sawing, cleaning and filling induction loop saw slot, loop sealant, backer rod, and grout and will consider them incidental to this item of work.
Subsection:	723.04.16 Pedestrian Detector.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished, installed and connected to pole/pedestal. The Department will not measure installing R10-3e (with arrow) sign, furnishing and installing mounting hardware for sign and will consider them incidental to this item of work.
Subsection:	723.04.18 Signal Controller- Type 170.
Revision:	Replace the second sentence with the following: The Department will not measure constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees and will consider them incidental to this item of work. The Department will also not measure furnishing and connecting the induction of loop amplifiers, pedestrian isolators, load switches, model 400 modem card; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires and will consider them incidental to this item of work.

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Subsection:	723.04.20 Install Signal Controller - Type 170.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each individual unit installed. The Department will not measure constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, and excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees and will consider them incidental to this item of work. The Department will also not measure connecting the induction loop amplifiers, pedestrian, isolators, load switches, model 400 modem card; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires and will consider them incidental to this item of work.
Subsection:	723.04.22 Remove Signal Equipment.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as a lump sum removal of signal equipment. The Department will not measure the return of control equipment and signal heads to the Department of Highways as directed by the District Traffic Engineer. The Department also will not measure the transportation of materials of the disposal of all other equipment and materials off the project by the contractor and will consider them incidental to this item of work.
Subsection:	723.04.28 Install Pedestrian Detector Audible.
Revision:	Replace the second sentence with the following: The Department will not measure installing sign R10-3e (with arrow) and will consider it incidental to this item of work.
Subsection:	723.04.29 Audible Pedestrian Detector.
Revision:	Replace the second sentence with the following: The Department will not measure furnishing and installing the sign R10-3e (with arrow) and will consider it incidental to this item of work.
Subsection:	723.04.30 Bore and Jack Conduit.
Revision:	Replace the paragraph with the following: The Department will measure the quantity in linear feet. This item shall include all work necessary for boring and installing conduit under an existing roadway. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.
Subsection:	723.04.31 Install Pedestrian Detector.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each individual unit installed and connected to pole/pedestal. The Department will not measure installing sign R 10-3e (with arrow) and will consider it incidental to this item of work.
Subsection:	723.04.32 Install Mast Arm Pole.
Revision:	Replace the second sentence with the following: The Department will not measure arms, signal mounting brackets, anchor bolts, or any other necessary hardware and will consider them incidental to this item of work.
Subsection:	723.04.33 Pedestal Post.
Revision:	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, conduit, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.

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Subsection:	723.04.36 Traffic Signal Pole Base.															
Revision:	Replace the second sentence with the following: The Department will not measure excavation, reinforcing steel, anchor bolts, specified conduits, ground rods, ground wires, backfilling, or restoration and will consider them incidental to this item of work.															
Subsection:	723.04.37 Install Signal Pedestal.															
Revision:	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.															
Subsection:	723.04.38 Install Pedestal Post.															
Revision:	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.															
Subsection:	723.05 PAYMENT.															
Revision:	Replace items 04810-04811, 20391NS835 and, 20392NS835 under <u>Code</u> , <u>Pay Item</u> , and <u>Pay Unit</u> with the following:															
	<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Pay Item</u></th> <th><u>Pay Unit</u></th> </tr> </thead> <tbody> <tr> <td>04810</td> <td>Electrical Junction Box</td> <td>Each</td> </tr> <tr> <td>04811</td> <td>Electrical Junction Box Type B</td> <td>Each</td> </tr> <tr> <td>20391NS835</td> <td>Electrical Junction Box Type A</td> <td>Each</td> </tr> <tr> <td>20392NS835</td> <td>Electrical Junction Box Type C</td> <td>Each</td> </tr> </tbody> </table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	04810	Electrical Junction Box	Each	04811	Electrical Junction Box Type B	Each	20391NS835	Electrical Junction Box Type A	Each	20392NS835	Electrical Junction Box Type C	Each
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>														
04810	Electrical Junction Box	Each														
04811	Electrical Junction Box Type B	Each														
20391NS835	Electrical Junction Box Type A	Each														
20392NS835	Electrical Junction Box Type C	Each														
Subsection:	804.01.02 Crushed Sand.															
Revision:	Delete last sentence of the section.															
Subsection:	804.01.06 Slag.															
Revision:	Add subsection and following sentence. Provide blast furnace slag sand where permitted. The Department will allow steel slag sand only in asphalt surface applications.															
Subsection:	804.04 Asphalt Mixtures.															
Revision:	Replace the subsection with the following: Provide natural, crushed, conglomerate, or blast furnace slag sand, with the addition of filler as necessary, to meet gradation requirements. The Department will allow any combination of natural, crushed, conglomerate or blast furnace slag sand when the combination is achieved using cold feeds at the plant. The Engineer may allow other fine aggregates.															
Subsection:	806.03.01 General Requirements.															
Revision:	Replace the second sentence of the paragraph with the following: Additionally, the material must have a minimum solubility of 99.0 percent when tested according to AASHTO T 44 and PG 76-22 must exhibit a minimum recovery of 60 percent, with a J _{NR} (nonrecoverable creep compliance) between 0.1 and 0.5, when tested according to AASHTO TP 70.															

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Subsection:	806.03.01 General Requirements.						
Table:	PG Binder Requirements and Price Adjustment Schedule						
Revision:	Replace the Elastic Recovery, % ⁽³⁾ (AASHTO T301) and all corresponding values in the table with the following:						
	<u>Test</u>	<u>Specification</u>	<u>100% Pay</u>	<u>90% Pay</u>	<u>80% Pay</u>	<u>70% Pay</u>	<u>50% Pay⁽¹⁾</u>
	MSCR recovery, % ⁽³⁾ (AASHTO TP 70)	60 Min.	≥58	56	55	54	<53
Subsection:	806.03.01 General Requirements.						
Table:	PG Binder Requirements and Price Adjustment Schedule						
Superscript:	(3)						
Revision:	Replace ⁽³⁾ with the following: Perform testing at 64°C.						
Subsection:	813.04 Gray Iron Castings.						
Revision:	Replace the reference to "AASHTO M105" with "ASTM A48".						
Subsection:	813.09.02 High Strength Steel Bolts, Nuts, and Washers.						
Number:	A) Bolts.						
Revision:	Delete first paragraph and "Hardness Number" Table. Replace with the following: A) Bolts. Conform to ASTM A325 (AASHTO M164) or ASTM A490 (AASHTO 253) as applicable.						
Subsection:	814.04.02 Timber Guardrail Posts.						
Revision:	Third paragraph, replace the reference to "AWPA C14" with "AWPA U1, Section B, Paragraph 4.1".						
Subsection:	814.04.02 Timber Guardrail Posts.						
Revision:	Replace the first sentence of the fourth paragraph with the following: Use any of the species of wood for round or square posts covered under AWPA U1.						
Subsection:	814.04.02 Timber Guardrail Posts.						
Revision:	Fourth paragraph, replace the reference to "AWPA C2" with "AWPA U1, Section B, Paragraph 4.1".						
Subsection:	814.04.02 Timber Guardrail Posts.						
Revision:	Delete the second sentence of the fourth paragraph.						
Subsection:	814.05.02 Composite Plastic.						
Revision:	1) Add the following to the beginning of the first paragraph: Select composite offset blocks conforming to this section and assure blocks are from a manufacturer included on the Department's List of Approved Materials. 2) Delete the last paragraph of the subsection.						
Subsection:	816.07.02 Wood Posts and Braces.						
Revision:	First paragraph, replace the reference to "AWPA C5" with "AWPA U1, Section B, Paragraph 4.1".						
Subsection:	816.07.02 Wood Posts and Braces.						
Revision:	Delete the second sentence of the first paragraph.						
Subsection:	818.07 Preservative Treatment.						
Revision:	First paragraph, replace all references to "AWPA C14" with "AWPA U1, Section A".						

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<p>Subsection: Revision:</p>	<p>834.14 Lighting Poles. Replace the first sentence with the following: Lighting pole design shall be in accordance with loading and allowable stress requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims, with the exception of the following: The Cabinet will waive the requirement stated in the first sentence of Section 5.14.6.2 – Reinforced Holes and Cutouts for high mast poles (only). The minimum diameter at the base of the pole shall be 22 inches for high mast poles (only).</p>
<p>Subsection Revision:</p>	<p>834.14.03 High Mast Poles. Remove the second and fourth sentence from the first paragraph.</p>
<p>Subsection Revision:</p>	<p>834.14.03 High Mast Poles. Replace the third paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.</p>
<p>Subsection: Revision:</p>	<p>834.14.03 High Mast Poles. Replace paragraph six with the following: Provide a pole section that conforms to ASTM A 595 grade A with a minimum yield strength of 55 KSI or ASTM A 572 with a minimum yield strength of 55 KSI. Use tubes that are round or 16 sided with a four inch corner radius, have a constant linear taper of .144 in/ft and contain only one longitudinal seam weld. Circumferential welded tube butt splices and laminated tubes are not permitted. Provide pole sections that are telescopically slip fit assembled in the field to facilitate inspection of interior surface welds and the protective coating. The minimum length of the telescopic slip splices shall be 1.5 times the inside diameter of the exposed end of the female section. Use longitudinal seam welds as commended in Section 5.15 of the AASHTO 2013 Specifications. The thickness of the transverse base shall not be less than 2 inches. Plates shall be integrally welded to the tubes with a telescopic welded joint or a full penetration groove weld with backup bar. The handhole cover shall be removable from the handhole frame. One the frame side opposite the hinge, provide a mechanism on the handhole cover/frame to place the Department’s standard padlock as specified in Section 834.25. The handhole frame shall have two stainless studs installed opposite the hinge to secure the handhole cover to the frame which includes providing stainless steel wing nuts and washers. The handhole cover shall be manufactured from 0.25 inch thick galvanized steel (ASTM A 153) and have a neoprene rubber gasket that is permanently secured to the handhole frame to insure weather-tight protection. The hinge shall be manufactured from 7-gauge stainless steel to provide adjustability to insure weather-tight fit for the cover. The minimum clear distance between the transverse plate and the bottom opening of the handhole shall not be less than the diameter of the bottom tube of the pole but needs to be at least 15 inches. Provide products that are hot-dip galvanized to the requirements of either ASTM A123 (fabricated products) or ASTM A 153 (hardware items).</p>
<p>Subsection: Revision:</p>	<p>834.16 ANCHOR BOLTS. Insert the following sentence at the beginning of the paragraph: The anchor bolt design shall follow the NCHRP Report 494 Section 2.4 and NCHRP 469 Appendix A Specifications.</p>

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Subsection:	834.17.01 Conventional.
Revision:	Add the following sentence after the second sentence: Provide a waterproof sticker mounted on the bottom of the housing that is legible from the ground and indicates the wattage of the fixture by providing the first two numbers of the wattage.
Subsection:	834.21.01 Waterproof Enclosures.
Revision:	Replace the last five sentences in the second paragraph with the following sentences: Provide a cabinet door with a louvered air vent, filter-retaining brackets and an easy to clean metal filter. Provide a cabinet door that is keyed with a factory installed standard no. 2 corbin traffic control key. Provide a light fixture with switch and bulb. Use a 120-volt fixture and utilize a L.E.D. bulb (equivalent to 60 watts minimum). Fixture shall be situated at or near the top of the cabinet and illuminate the contents of the cabinet. Provide a 120 VAC GFI duplex receptacle in the enclosure with a separate 20 amp breaker.
Subsection:	835.07 Traffic Poles.
Revision:	Replace the first sentence of the first paragraph with the following: Pole diameter and wall thickness shall be calculated in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection:	835.07 Traffic Poles.
Revision:	*Replace the first sentence of the fourth paragraph with the following: Ensure transverse plates have a thickness ≥ 2 inches. *Add the following sentence to the end of the fourth paragraph: The bottom pole diameter shall not be less than 16.25 inches.
Subsection:	835.07 Traffic Poles.
Revision:	Replace the third sentence of the fifth paragraph with the following: For anchor bolt design, pole forces shall be positioned in such a manner to maximize the force on any individual anchor bolt regardless of the actual anchor bolt orientation with the pole.
Subsection:	835.07 Traffic Poles.
Revision:	Replace the first and second sentence of the sixth paragraph with the following: The pole handhole shall be 25 inches by 6.5 inches. The handhole cover shall be removable from the handhole frame. On the frame side opposite the hinge, provide a mechanism on the handhole cover/frame to place the Department's standard padlock as specified in Section 834.25. The handhole frame shall have two stainless studs installed opposite the hinge to secure the handhole cover to the frame which includes providing stainless steel wing nuts and washers. The handhole cover shall be manufactured from 0.25 inch thick galvanized steel (ASTM 153) and have a neoprene rubber gasket that is permanently secured to the handhole frame to insure weather-tight protection. The hinge shall be manufactured from 7 gauge stainless steel to provide adjustability to insure a weather-tight fit for the cover. The minimum clear distance between the transverse plate and the bottom opening of the handhole shall not be less than the diameter of the bottom tube but needs to be at least 12 inches.

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Subsection:	835.07 Traffic Poles.									
Revision:	*Replace the first sentence of the last paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky. *Replace the third sentence of the last paragraph with the following: All tables referenced in 835.07 are found in the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.									
Subsection:	835.07.01 Steel Strain Poles.									
Revision:	Replace the second sentence of the second paragraph with the following: The detailed analysis shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky.									
Subsection:	835.07.01 Steel Strain Poles.									
Revision:	Replace number 7. after the second paragraph with the following: 7. Fatigue calculations should be shown for all fatigue related connections. Provide the corresponding detail, stress category and example from table 11.9.3.1-1.									
Subsection:	835.07.02 Mast Arm Poles.									
Revision:	Replace the second sentence of the fourth paragraph with the following: The detailed analysis shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky.									
Subsection:	835.07.02 Mast Arm Poles.									
Revision:	Replace number 7) after the fourth paragraph with the following: 7) Fatigue calculations should be shown for all fatigue related connections. Provide the corresponding detail, stress category and example from table 11.9.3.1-1.									
Subsection:	835.07.03 Anchor Bolts.									
Revision:	Add the following to the end of the paragraph: There shall be two steel templates (one can be used for the headed part of the anchor bolt when designed in this manner) provided per pole. Templates shall be contained within a 26.5 inch diameter. All templates shall be fully galvanized (ASTM A 153).									
Subsection:	835.16.05 Optical Units.									
Revision:	Replace the 3rd paragraph with the following: The list of certified products can be found on the following website: http://www.intertek.com .									
Subsection:	835.19.01 Pedestrian Detector Body.									
Revision:	Replace the first sentence with the following: Provide a four holed pole mounted aluminum rectangular housing that is compatible with the pedestrian detector.									
Subsection:	843.01.01 Geotextile Fabric.									
Table:	TYPE I FABRIC GEOTEXTILES FOR SLOPE PROTECTION AND CHANNEL LINING									
Revision:	Add the following to the chart:									
	<table border="1"> <thead> <tr> <th><u>Property</u></th> <th><u>Minimum Value⁽¹⁾</u></th> <th><u>Test Method</u></th> </tr> </thead> <tbody> <tr> <td>CBR Puncture (lbs)</td> <td>494</td> <td>ASTM D6241</td> </tr> <tr> <td>Permittivity (1/s)</td> <td>0.7</td> <td>ASTM D4491</td> </tr> </tbody> </table>	<u>Property</u>	<u>Minimum Value⁽¹⁾</u>	<u>Test Method</u>	CBR Puncture (lbs)	494	ASTM D6241	Permittivity (1/s)	0.7	ASTM D4491
<u>Property</u>	<u>Minimum Value⁽¹⁾</u>	<u>Test Method</u>								
CBR Puncture (lbs)	494	ASTM D6241								
Permittivity (1/s)	0.7	ASTM D4491								

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Subsection:	843.01.01 Geotextile Fabric.		
Table:	TYPE II FABRIC GEOTEXTILES FOR UNDERDRAINS		
Revision:	Add the following to the chart:		
	<u>Property</u>	<u>Minimum Value⁽¹⁾</u>	<u>Test Method</u>
	CBR Puncture (lbs)	210	ASTM D6241
	Permittivity (1/s)	0.5	ASTM D4491
Subsection:	843.01.01 Geotextile Fabric.		
Table:	TYPE III FABRIC GEOTEXTILES FOR SUBGRADE OR EMBANKMENT STABILIZATION		
Revision:	Add the following to the chart:		
	<u>Property</u>	<u>Minimum Value⁽¹⁾</u>	<u>Test Method</u>
	CBR Puncture (lbs)	370	ASTM D6241
	Permittivity (1/s)	0.05	ASTM D4491
Subsection:	843.01.01 Geotextile Fabric.		
Table:	TYPE IV FABRIC GEOTEXTILES FOR EMBANKMENT DRAINAGE BLANKETS AND PAVEMENT EDGE DRAINS		
Revision:	Add the following to the chart:		
	<u>Property</u>	<u>Minimum Value⁽¹⁾</u>	<u>Test Method</u>
	CBR Puncture (lbs)	309	ASTM D6241
	Permittivity (1/s)	0.5	ASTM D4491
Subsection:	843.01.01 Geotextile Fabric.		
Table:	TYPE V HIGH STRENGTH GEOTEXTILE FABRIC		
Revision:	Make the following changes to the chart:		
	<u>Property</u>	<u>Minimum Value⁽¹⁾</u>	<u>Test Method</u>
	CBR Puncture (lbs)	618	ASTM D6241
	Apparent Opening Size	U.S. #40 ⁽³⁾	ASTM D4751
	⁽³⁾ Maximum average roll value.		

SPECIAL NOTE FOR TURF REINFORCING MAT

1.0 DESCRIPTION. Install turf reinforcement mat at locations specified in the Contract or as the Engineer directs. Section references herein are to the Department's 2008 Standard Specifications for Road and Bridge Construction.

2.0 MATERIALS.

2.1 Turf Reinforcement Mat (TRM). Use a Turf Reinforcement Mat defined as permanent rolled erosion control product composed of non-degradable synthetic fibers, filaments, nets, wire mesh and/or other elements, processed into a three-dimensional matrix of sufficient thickness and from the Department's List of Approved Materials. Mats must be 100% UV stabilized materials. For TRMs containing degradable components, all physical property values must be obtained on the non-degradable portion of the matting exclusively. Ensure product labels clearly show the manufacturer or supplier name, style name, and roll number. Ensure labeling, shipment and storage follows ASTM D-4873. The Department will require manufacturer to provide TRMs that are machine constructed web of mechanically or melt bonded nondegradable fibers entangled to form a three dimensional matrix. The Department will require all long term performance property values in table below to be based on non degradable portion of the matting alone. Approved methods include polymer welding, thermal or polymer fusion, or placement of fibers between two high strength biaxially oriented nets mechanically bound by parallel stitching with polyolefin thread. Ensure that mats designated in the plans as Type 4 mats, are not to be manufactured from discontinuous or loosely held together by stitching or glued netting or composites. Type 4 mats shall be composed of geosynthetic matrix that exhibits a very high interlock and reinforcement capacities with both soil and root systems and with high tensile modulus. The Department will require manufacturer to use materials chemically and biologically inert to the natural soil environments conditions. Ensure the blanket is smolder resistant without the use of chemical additives. When stored, maintain the protective wrapping and elevate the mats off the ground to protect them from damage. The Department will not specify these materials for use in heavily acidic coal seam areas or other areas with soil problems that would severally limit vegetation growth.

- A) Dimensions. Ensure TRMs are furnished in strips with a minimum width of 4 feet and length of 50 feet.
- B) Weight. Ensure that all mat types have a minimum mass per unit area of 7 ounces per square yard according to ASTM D 6566.
- C) Performance Testing: The Department will require AASHTO's NTPEP index testing. The Department will also require the manufacturer to perform internal MARV testing at a Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP) accredited laboratory for tensile strength, tensile elongation, mass per unit area, and thickness once every 24,000 yds of production or whatever rate is required to ensure 97.7% confidence under ASTM D4439& 4354. The Department will require Full scale testing for slope and channel applications shear stress shall be done under ASTM D 6459, ASTM D 6460-07 procedures.

2.2 Classifications

The basis for selection of the type of mat required will be based on the long term shear stress level of the mat of the channel in question or the degree of slope to protect and will be designated in the contract. The Type 4 mats are to be used at structural backfills protecting critical

structures, utility cuts, areas where vehicles may be expected to traverse the mat, channels with large heavy drift, and where higher factors of safety, very steep slopes and/or durability concerns are needed as determined by project team and designer and will be specified in the plans by designer.

Turf Reinforcement Matting					
Properties ¹	Type 1	Type 2	Type 3	Type 4	Test Method
Minimum tensile Strength lbs/ft	125	150	175	3000 by 1500	ASTM D6818 ²
UV stability (minimum % tensile retention)	80	80	80	90	ASTM D4355 ³ (1000-hr exposure)
Minimum thickness (inches)	0.25	0.25	0.25	0.40	ASTM D6525
Slopes applications	2H:1V or flatter	1.5H:1V or flatter	1H:1V or flatter	1 H: 1V or greater	
Shear stress lbs/ft ² Channel applications	6.0 ⁴	8.0 ⁴	10.0 ⁴	12.0 ⁴	ASTM D6459 ASTM D6460-07

¹ For TRMs containing degradable components, all physical property values must be obtained on the non-degradable portion of the matting alone.

²Minimum Average Roll Values for tensile strength of sample material machine direction.

³Tensile Strength percentage retained after stated 1000 hr duration of exposure under ASTM D4355 testing. Based on nondegradable components exclusively.

⁴Maximum permissible shear design values based on short-term (0.5 hr) vegetated data obtained by full scale flume testing ASTM D6459, D6460-07. Based on nondegradable components exclusively. Testing will be done at Independent Hydraulics Facility such as Colorado State University hydraulics laboratory, Utah State University hydraulics laboratory, Texas Transportation Institute (TTI) hydraulics and erosion control laboratory.

2.3 Quality Assurance Sampling, Testing, and Acceptance

- A) Provide TRM listed on the Department’s List of Approved Materials. Prior to inclusion on the LAM, the manufacturer of TRM must meet the physical and performance criteria as outlined in the specification and submit a Letter Certifying compliance of the product under the above ASTM testing procedures and including a copy of report from Full Scale Independent Hydraulics Facility that Fully Vegetated Shear Stress meets shear stress requirements tested under D6459 and D6460-07.
- B) Contractors will provide a Letter of Certification from Manufacturer stating the product name, manufacturer, and that the product MARV product unit testing results meets Department criteria. Provide Letters once per project and for each product.
- C) Acceptance shall be in accordance with ASTM D-4759 based on testing performed by a Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP) accredited laboratory using Procedure A of ASTM D-4354.

Current mats meeting the above criteria are shown on the Department’s List of Approved Materials.

2.4 Fasteners. When the mat manufacturer does not specify a specific fastener, use steel wire U-shaped staples with a minimum diameter of 0.09 inches (11 gauge), a minimum width of one inch and a minimum length of 12 inches. Use a heavier gauge when working in rocky or clay soils and longer lengths in sandy soils as directed by Engineer or Manufacturer’s Representative. Provide staples with colored tops when requested by the Engineer.

3.0 CONSTRUCTION. When requested by the Engineer, provide a Manufacturer’s Representative on-site to oversee and approve the initial installation of the mat. When requested by the Engineer, provide a letter from the Manufacturer approving the installation. When there is a conflict between the Department’s criteria and the Manufacturer’s criteria, construct using the more restrictive. The Engineer and Manufacturer’s Representative must approve all alternate installation methods prior to execution. Construct according to the Manufacturer’s recommendations and the following as minimum installation technique:

3.1 Site Preparation. Grade areas to be treated with matting and compact. Remove large rocks, soil clods, vegetation, roots, and other sharp objects that could keep the mat from intimate contact with subgrade. Prepare seedbed by loosening the top 2 to 3 inch of soil.

3.2 Installation. Install mats according to Standard Drawing Sepias “Turf Mat Channel Installation” and “Turf Mat Slope Installation.” Install mats at the specified elevation and alignment. Anchor the mats with staples with a minimum length of 12 inches. Use longer anchors for installations in sandy, loose, or wet soils as directed by the Engineer or Manufacturer’s Representative. The mat should be in direct contact with the soil surface.

4.0 MEASUREMENT. The Department will measure the quantity of Turf Reinforcement Mat by the square yard of surface covered. The Department will not measure preparation of the bed, providing a Manufacturer’s Representative, topsoil, or seeding for payment and will consider them incidental to the Turf Reinforcement Mat. The Department will not measure any reworking of slopes or channels for payment as it is considered corrective work and incidental to the Turf Reinforcement Mat. Seeding and protection will be an incidental item.

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>
23274EN11F	Turf Reinforcement Mat 1	Square Yard
23275EN11F	Turf Reinforcement Mat 2	Square Yard
23276EN11F	Turf Reinforcement Mat 3	Square Yard
23277EN11F	Turf Reinforcement Mat 4	Square Yard

April 18, 2009

2012 STANDARD DRAWINGS THAT APPLY

**ROADWAY
~ DRAINAGE ~
BOX INLETS AND OUTLETS**

DROP BOXES

DROP BOX INLET TYPE 3..... RDB-003-07

PAVED DITCHES, FLUME INLETS AND CHANNEL LININGS

CHANNEL LINING CLASS II AND III..... RDD-040-04

TYPICAL DRAINAGE INSTALLATIONS

CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS..... RDI-001-09
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS..... RDI-002-04
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS..... RDI-011-02
NON-CIRCULAR PIPE ALTERNATES RDI-016-02
PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER PIPE..... RDI-020-08
PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER REINFORCED CONC. PIPE..... RDI-021
PIPE BEDDING, TRENCH CONDITION RDI-025-04
PIPE BEDDING, TRENCH CONDITION REINFORCED CONC. PIPE..... RDI-026
COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPE RDI-035-01
TURF MAT SLOPE INSTALLATION RDI-040
TURF MAT CHANNEL INSTALLATION RDI-041

MISCELLANEOUS DRAINAGE

TEMPORARY SILT FENCE..... RDX-210-02
TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC..... RDX-215
SILT TRAP - TYPE C..... RDX-230

**~ FENCES AND GATES ~
CHAIN LINK FENCE**

CHAIN LINK FENCE 4' TO 6' HIGH..... RFC-001-07
CHAIN LINK FENCE 8' TO 12' HIGH..... RFC-002-04

GATES

WOVEN WIRE GATES RFG-001-06
4' TO 12' HIGH CHAIN LINK GATE..... RFG-005-05
WATER GATE TYPE 1 AND TYPE 2..... RFG-010-04
WATER GATE TYPE 3..... RFG-011-05

WOVEN WIRE FENCE

FENCING DETAILS RFW-001-05
WOVEN WIRE FENCE TYPE 1..... RFW-005-07
WOVEN WIRE FENCE TYPE 2..... RFW-006-06

~ GENERAL ~

CURVE WIDENING AND SUPERELEVATION

CURVE WIDENING AND SUPERELEVATION TRANSITIONS..... RGS-001-06

Standard Drawings That Apply
Page 2 of 2

MISCELLANEOUS STANDARDS

MISCELLANEOUS STANDARDS PART 1	RGX-001-05
TYPICAL EMBANKMENT FOUNDATION BENCHES	RGX-010-03
ONE POINT PROCTER FAMILY OF CURVES	RGX-200

~ PAVEMENT ~

MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.

APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT	RPM-110-06
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~ ROADSIDE DEVELOPMENT ~

PLANTS

PLANTING AND STAKING DETAILS	RRP-001-04
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TRAFFIC

~ TEMPORARY ~

TRAFFIC CONTROL

SHOULDER CLOSURE	TTC-135-01
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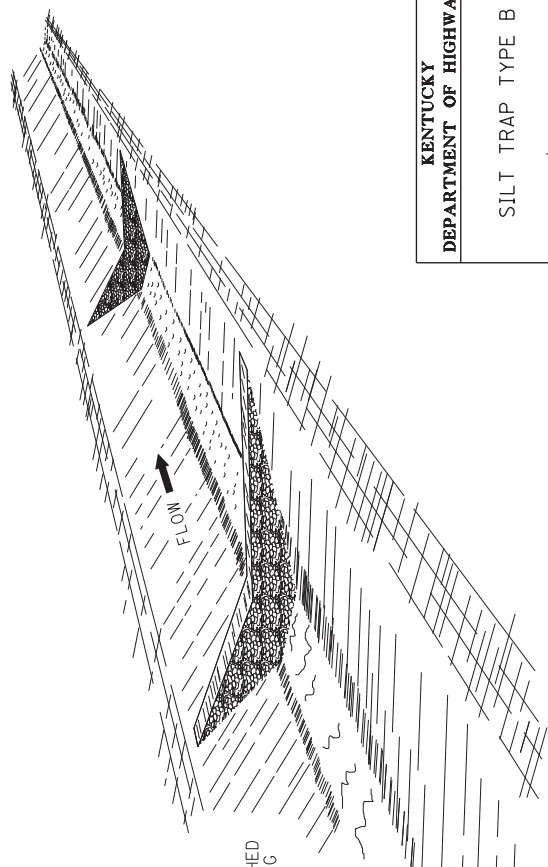
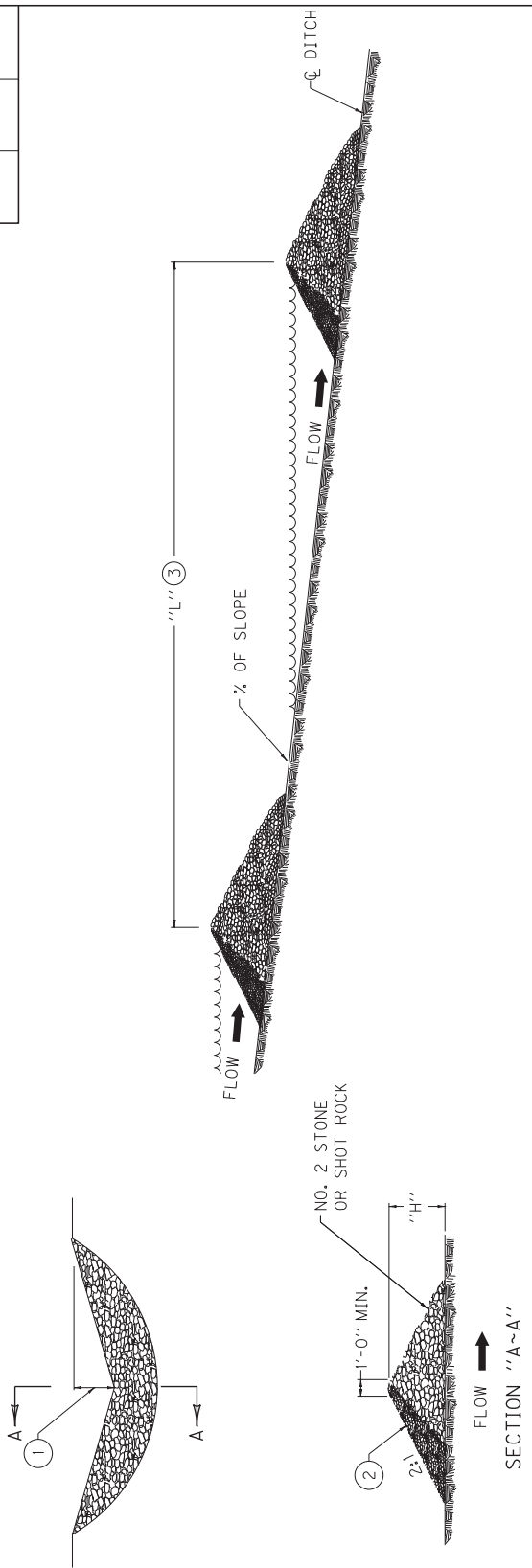
DEVICES

POST SPLICING DETAIL	TTD-110-01
PAVEMENT CONDITION WARNING SIGNS	TTD-125-01

STRIPING OPERATIONS

MOBILE OPERATION FOR PAINT STRIPING CASE II	TTS-105-01
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COUNTY OF	ITEM NO.	SHEET NO.



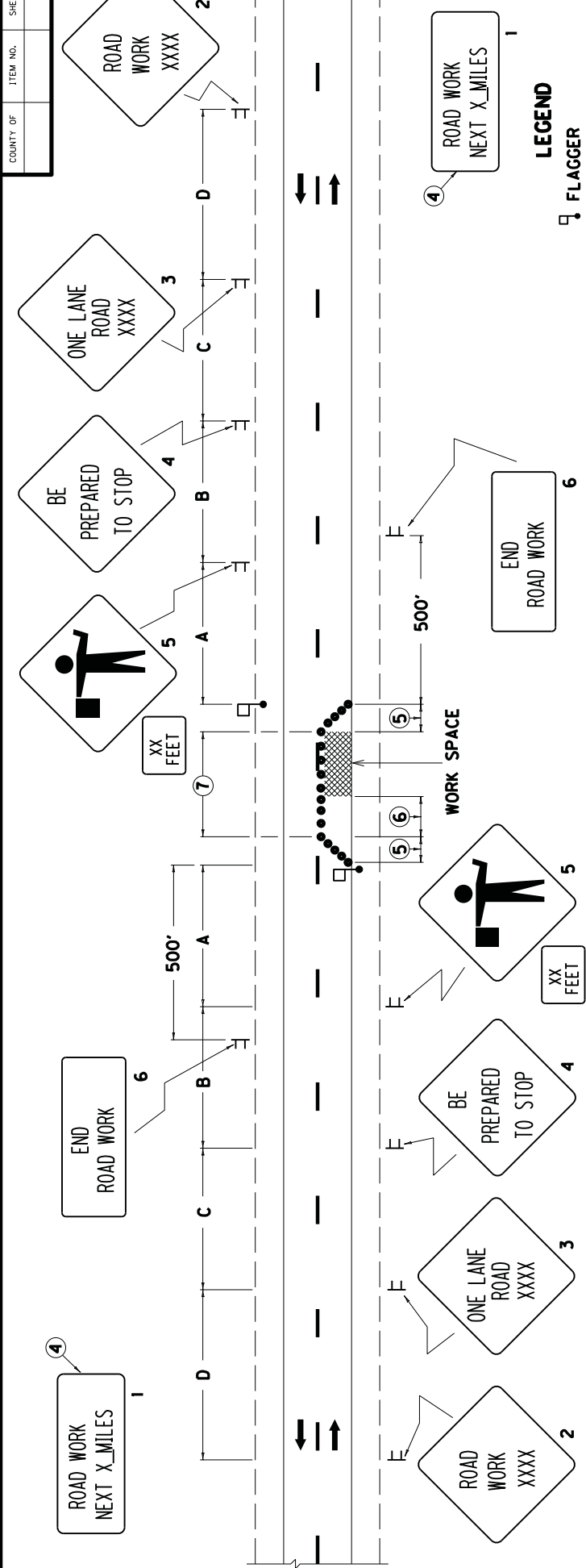
~NOTES~

- BID ITEM AND UNIT TO BID:
- | CODE | PAY ITEM | PAY UNIT |
|------|------------------------|----------|
| 2704 | SILT TRAP TYPE B | EACH |
| 2707 | CLEAN SILT TRAP TYPE B | EACH |
- MIDDLE OF SILT TRAP SHALL BE A MINIMUM OF 1'-0" LOWER THAN SIDES SO FLOW WILL NOT BYPASS TRAP OR ERODE BANKS.
 - UPSTREAM FACE OF SILT TRAP SHALL BE A FOUR INCH MIN. LAYER OF CRUSHED AGGREGATE HAVING 100% PASSING A 3" SIEVE AND NO MORE THAN 5% PASSING A NO. 8 SIEVE. (SEE SECTION "A-A").
 - "L" = SLOPE OF DITCH
 - SPACE SILT TRAPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - SILT TRAP TYPE B SHALL BE USED ON ALL SLOPES GREATER THAN 2%.
 - SILT TRAP TYPE B MAY BE USED ON ALL SLOPES LESS THAN 2%.

KENTUCKY
DEPARTMENT OF HIGHWAYS

SILT TRAP TYPE B

SUBMITTED: *[Signature]* DATE: 7-18-13
016



LEGEND

- Ⓜ FLAGGER
- Ⓜ SIGN
- CHANNELIZING DEVICES
- CONES
- DRUMS
- TYPE II BARRICADES
- TUBULAR MARKERS

DRAWING NOT TO SCALE
USE WITH CURRENT
STD. DWG T1D-110

KENTUCKY
 DEPARTMENT OF HIGHWAYS

LANE CLOSURE
TWO-LANE HIGHWAY

SUBMITTED BY: *R. [Signature]* DATE: 8-28-13
 CONTRACT NO. O17

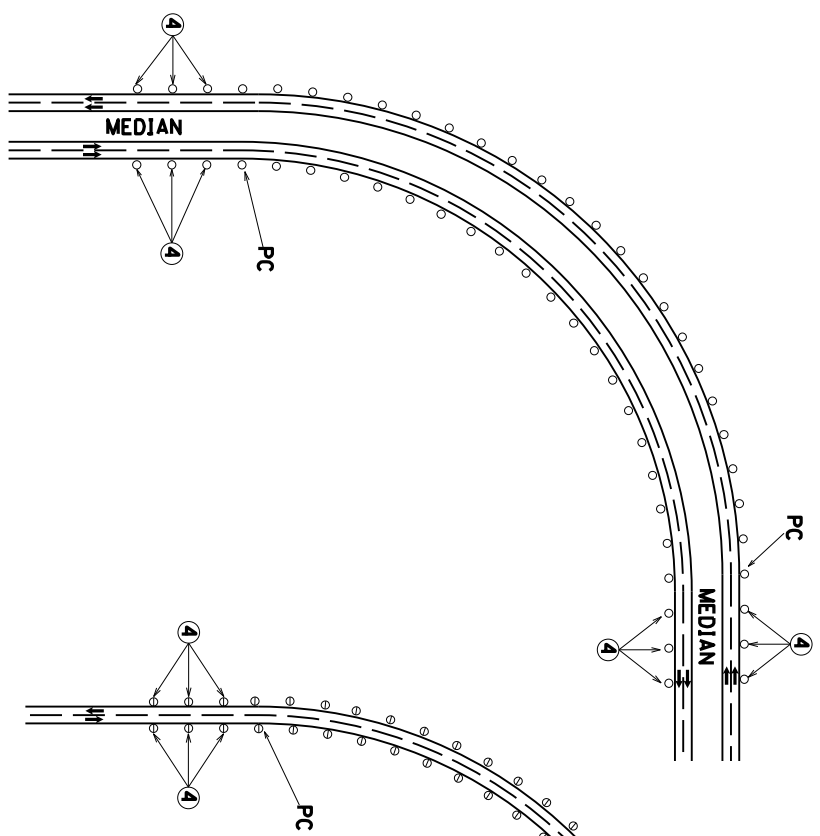
1. THE SIZE OF SIGNS 2 THRU 5 SHALL BE 48" X 48" WITH 30" X 24" SUPPLEMENTAL PLAQUES FOR EXPRESSWAYS/FREEWAYS. THE MINIMUM SIZE OF SIGNS 2 THRU 5 SHALL BE 36" X 36" WITH 24" X 18" SUPPLEMENTAL PLAQUES FOR OTHER ROADWAYS. SIGN NOS. 1 AND 6 SHALL BE 48" X 24" FOR EXPRESSWAYS/FREEWAYS AND 36" X 18" FOR OTHER ROADWAYS. A FREEWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS. AN EXPRESSWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.
2. THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATIONS SHALL BE LOCATED FAR ENOUGH IN ADVANCE OF THE ACTIVITY AREA SO THAT APPROACHING ROAD USERS WILL HAVE SUFFICIENT DISTANCE TO STOP BEFORE ENTERING THE WORK SPACE (REFER TO TABLE 6C-2 OF THE MUTCD). ILLUMINATION SHALL BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT.
3. DRUMS OR TYPE II BARRICADES SHALL BE USED IN LIEU OF CONES OR TUBULAR MARKERS IF CLOSURE EXTENDS INTO NIGHTTIME HOURS.
4. SIGN NO. 1 SHOULD BE INSTALLED AT THE LIMITS OF THE PROJECT WHEN THE CONSTRUCTION ZONE IS LONGER THAN TWO MILES IN LENGTH. THE DISTANCE SHOWN SHALL BE STATED TO THE NEAREST WHOLE MILE.
5. TAPERS SHALL BE 50' (MIN) TO 100' (MAX) IN LENGTH. SPACING OF CHANNELIZING DEVICES SHOULD BE 20' THRU THE TAPER AREAS.
6. BUFFER SPACE (OPTIONAL), IF USED, THE BUFFER SPACE SHOULD BE EXTENDED SO THAT THE TWO-WAY TRAFFIC TAPER IS PLACED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGER AND A QUEUE OF STOPPED VEHICLES.
7. SPACING OF CHANNELIZING DEVICES THRU THE ACTIVITY AREA SHOULD BE 80'. ON ROADWAYS WITH WIDTHS LESS THAN 20 FEET, CHANNELIZING DEVICES MAY BE OMITTED THRU THE ACTIVITY AREA BASED ON ENGINEERING JUDGMENT.
8. WHEN NIGHTTIME WORK IS BEING PERFORMED, FLOODLIGHTS SHOULD BE USED TO ILLUMINATE THE WORK AREA.

SIGNING AND SPACING TABLE

ROAD TYPE	A	B	C	D
EXPRESSWAY/ FREEWAY	1000'	500'	1100'	2600'
SP. LT. ≥ 45 MPH*	500'	500'	500'	1100'
SP. LT. ≤ 40 MPH*	250'	250'	250'	250'

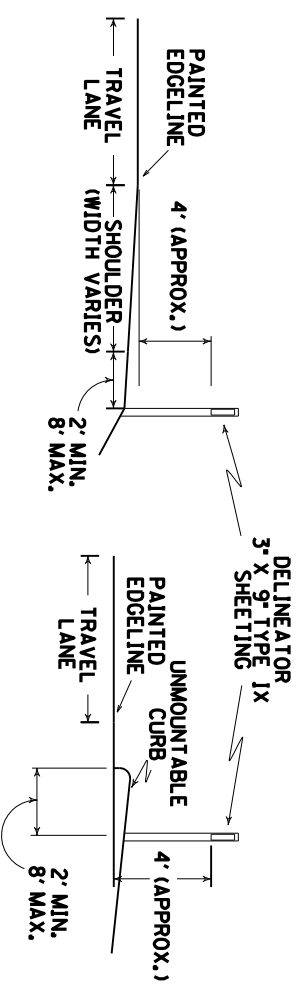
*NOTE: USE NORMAL POSTED SPEED LIMIT

APPLICATION
 THIS DRAWING APPLIES TO LANE CLOSURES ON TWO-LANE, TWO DIRECTION HIGHWAYS.



DELINEATION FOR HORIZONTAL CURVES ON MULTI-LANE EXPRESSWAYS/FREWAYS

DELINEATION FOR HORIZONTAL CURVES ON TWO-LANE EXPRESSWAYS/FREWAYS



FLEXIBLE DELINEATOR POST MOUNTING DETAILS

LEGEND	
○	FLEXIBLE DELINEATOR POST - M/W (MONO-WHITE)
⊖	FLEXIBLE DELINEATOR POST - B/W (BI-WHITE)
APPROX. SPACING = 50 FEET	
UNIT BID = EACH	

GENERAL NOTES

1. DELINEATORS SHALL BE FROM THE LIST OF APPROVED MATERIALS AND SHALL BE IN ACCORDANCE WITH SECTION 838 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. THE DELINEATOR POST AND RETROREFLECTIVE SHEETING SHALL BE THE SAME COLOR AND SHALL MATCH THE COLOR OF THE EDGLINES THEY SUPPLEMENT.
4. THREE DELINEATORS SHOULD BE INSTALLED IN ADVANCE OF THE BEGINNING AND PROCEEDING AWAY FROM THE END OF THE CURVE AT A SPACING OF APPROXIMATELY 50 FEET.
5. DELINEATORS SHALL BE PROVIDED ON THE RIGHT-HAND SIDE OF HORIZONTAL CURVES ON EXPRESSWAYS AND FREEWAYS.
6. DELINEATORS ARE NOT REQUIRED ON TANGENT SECTIONS OF EXPRESSWAYS AND FREEWAYS.
7. DELINEATORS SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS. AN EXPRESSWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.
8. DELINEATORS SHOULD BE PLACED AT A CONSTANT DISTANCE FROM THE ROADWAY EDGE. WHEN AN OBSTRUCTION EXISTS NEAR THE PAVEMENT EDGE, THE LINE OF DELINEATORS SHOULD BE TRANSITIONED TO THE INSIDE OF THE OBSTRUCTION OR TO THE BARRIER DELINEATION IF THE OBSTRUCTION IS GUARDRAIL OR BARRIER WALL. SUCH TRANSITIONS SHOULD BEGIN APPROXIMATELY 200 FT IN ADVANCE OF THE OBSTRUCTION/BARRIER.
9. DELINEATORS SHOULD BE INSTALLED AT AN APPROXIMATE RIGHT ANGLE TO APPROACHING TRAFFIC.
10. DELINEATORS MAY BE DISCONTINUED ALONG SECTIONS WITH BARRIER WALL OR GUARDRAIL DELINEATION.

DRAWING NOT TO SCALE

KENTUCKY
DEPARTMENT OF HIGHWAYS
FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR HORIZONTAL CURVES

SUBMITTED *R. Jeffery Lail* 8-29-13
DATE

COUNTY OF	ITEM NO.	SHEET NO.
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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 (between forty and seventy); 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 (between forty and seventy). 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, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin 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 (between forty and seventy), 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: 12-3-92

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 (6) provides:

No present or former public servant shall, within six (6) months of 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 the state in matters in which he was directly involved during 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, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved 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.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, 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, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

General Decision Number: KY150123 01/02/2015 KY123

Superseded General Decision Number: KY20140123

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: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/02/2015

SUKY2013-001 12/06/2013

	Rates	Fringes
BOILERMAKER.....	\$ 24.65	12.94
BRICKLAYER		
Bricklayer.....	\$ 22.90	8.50
Stone Mason.....	\$ 21.50	8.50
CARPENTER		
Carpenter.....	\$ 24.15	13.50
Piledriver.....	\$ 23.80	13.50
ELECTRICIAN		
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.....\$ 26.34 18.84

LABORER

Group 1.....\$ 21.15 11.41
Group 2.....\$ 21.40 11.41
Group 3.....\$ 21.45 11.41
Group 4.....\$ 22.05 11.41

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 Llaborer is Utilized

PAINTER

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

PLUMBER.....\$ 22.52 7.80

POWER EQUIPMENT OPERATOR:

Group 1.....	\$ 27.35	13.40
Group 2.....	\$ 24.87	13.40
Group 3.....	\$ 25.26	13.40
Group 4.....	\$ 24.60	13.40

GROUP 1: Auto Patrol, Batcher 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, 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, Hydrocrane, Tugger, Backfiller Gurries, Self-propelled Compactor, Self-Contained Hydraulic Percussion Drill

GROUP 2: All Air Compressors (200 cu ft/min or greater), Bituminous Mixer, Concrete Mixer (under 212 cu ft), 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).....	\$ 22.99	13.50
Driver (3 Tons and Under), Tire Changer and Truck Mechanic Tender.....	\$ 22.78	13.50
Driver (Semi-Trailer or Pole Trailer), Driver (Dump Truck, Tandem Axle), Driver of Distributor.....	\$ 22.65	13.50
Driver on Mixer Trucks (All Types).....	\$ 22.70	13.50
Driver on Pavement Breakers.	\$ 22.80	13.50
Driver, Euclid and Other Heavy Earth Moving Equipment and Low Boy.....	\$ 23.56	13.50
Driver, Winch Truck and A-		

Frame when used in Transporting Materials.....\$ 22.55	13.50
Greaser on Greasing Facilities.....\$ 23.65	13.50
Truck Mechanic.....\$ 22.75	13.50
Truck Tender and Warehouseman.....\$ 22.45	13.50

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Unlisted classifications needed for work not included within
the scope of the classifications listed may be added after
award only as provided in the labor standards contract clauses
(29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification
and wage rates that have been found to be prevailing for the
cited type(s) of construction in the area covered by the wage
determination. The classifications are listed in alphabetical
order of "identifiers" that indicate whether the particular
rate is a union rate (current union negotiated rate for local),
a survey rate (weighted average rate) or a union average rate
(weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed
in dotted lines beginning with characters other than "SU" or
"UAVG" denotes that the union classification and rate were
prevailing for that classification in the survey. Example:
PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of
the union which prevailed in the survey for this
classification, which in this example would be Plumbers. 0198
indicates the local union number or district council number
where applicable, i.e., Plumbers Local 0198. The next number,
005 in the example, is an internal number used in processing
the wage determination. 07/01/2014 is the effective date of the
most current negotiated rate, which in this example is July 1,
2014.

Union prevailing wage rates are updated to reflect all rate
changes in the collective bargaining agreement (CBA) governing
this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that
no one rate prevailed for this classification in the survey and
the published rate is derived by computing a weighted average
rate based on all the rates reported in the survey for that
classification. As this weighted average rate includes all

rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor

200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

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

These rates are listed pursuant to the Kentucky Determination No. CR-14-II- HWY dated July 14, 2014.

NOTE: Both Kentucky Determination No. CR-14-II-HWY and Federal Decision No. KY140123 apply to this project. Both sets of wage rates are included. If there is a difference in the two wages for the same classification, the Contractor is required to pay the higher of the two listed wages.

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

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

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

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

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

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

OVERTIME:

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

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

KENTUCKY LABOR CABINET
PREVAILING WAGE DETERMINATION
CURRENT REVISION
HIGHWAY CONSTRUCTION LOCALITY NO. II

Determination No. CR-14-II-HWY

Project No.
Highway

Date of Determination: July 14, 2014

This schedule of the prevailing rate of wages for Locality No. II including the counties of ADAIR, BARREN, BELL, BREATHITT, CASEY, CLAY, CLINTON, CUMBERLAND, ESTILL, FLOYD, GARRARD, GREEN, HARLAN, HART, JACKSON, JOHNSON, KNOTT, KNOX, LAUREL, LAWRENCE, LEE, LESLIE, LETCHER, LINCOLN, MCCREARY, MAGOFFIN, MARTIN, MENIFEE, METCALFE, MONROE, MORGAN, OWSLEY, PERRY, PIKE, POWELL, PULASKI, ROCKCASTLE, RUSSELL, TAYLOR, WAYNE, WHITLEY, and WOLFE has been determined in accordance with the provisions of KRS 337.505 to 337.550. This determination shall be referred to as Prevailing Wage Determination No. CR-14-II-HWY.

The following schedule of rates is to be used for highway construction projects advertised or awarded by the Kentucky Transportation Cabinet. This includes any contracts for the relocation of any utilities or other incidental construction projects advertised or awarded by public authorities as a result of the highway construction project.

Apprentices or trainees shall be permitted to work in accordance with Administrative Regulations. Copies of these regulations will be furnished upon request to any interested person.

Overtime is to be computed at not less than one and one-half (1 1/2) times the indicated BASE RATE for all hours worked in excess of eight (8) hours per day, or in excess of forty (40) hours per week. However, KRS 337.540 permits an employee and employer to agree, in writing, that the employee will be compensated at a straight time base rate for hours worked in excess of eight (8) hours in any one calendar day, but not more than ten (10) hours worked in any one calendar day, if such written agreement is prior to the over eight (8) hours in a calendar day actually being worked, or where provided for in a collective bargaining agreement. The fringe benefit rate is to be paid for each hour worked at a straight time rate for all hours worked. Fringe benefit amounts are applicable for all hours worked except when otherwise noted. Welders will receive rate for craft in which welding is incidental.

No laborer, workman or mechanic shall be paid at a rate less than that of the General Laborer except those classified as bona fide apprentices registered with the Kentucky State Apprenticeship Supervisor unless otherwise specified in this schedule of wage rates.

Anthony Russell, Commissioner
Department of Workplace Standards

CLASSIFICATIONS **RATE AND FRINGE BENEFITS**

BOILERMAKERS: BASE RATE \$24.65
FRINGE BENEFIT 12.94

BRICKLAYERS:
Bricklayers: BASE RATE \$22.90
FRINGE BENEFITS 8.50

Stone Mason: BASE RATE \$21.50
FRINGE BENEFITS 8.50

CARPENTERS:
Carpenters: BASE RATE \$24.90
FRINGE BENEFITS 14.50

Piledrivers: BASE RATE \$24.55
FRINGE BENEFITS 14.50

CEMENT MASONS: BASE RATE \$21.25
FRINGE BENEFITS 8.50

ELECTRICIANS: *BASE RATE \$29.36
FRINGE BENEFITS 10.55

*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 a direct 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.

LINEMAN: *BASE RATE \$30.09
FRINGE BENEFITS 10.94

EQUIPMENT OPERATOR: *BASE RATE \$26.90
FRINGE BENEFITS 10.31

GROUNDSMAN: *BASE RATE \$17.79
FRINGE BENEFITS 8.51

IRONWORKERS: BASE RATE \$ 26.97
FRINGE BENEFITS 20.01

CLASSIFICATIONS

RATE AND FRINGE BENEFITS

LABORERS:

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 helper, 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:

HEAVY & HIGHWAY	BASE RATE	\$21.80
	FRINGE BENEFITS	12.36

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:

HEAVY & HIGHWAY	BASE RATE	\$22.05
	FRINGE BENEFITS	12.36

GROUP 3: Air track driller (all types), asphalt luteman and rakersm gunnite nozzleleman, gunnite operators and mixers, grout pump operator, powderman and blaster, side rail setters, rail paved ditches, screw operators, tunnel laborers (free air), and water blasters:

HEAVY & HIGHWAY	BASE RATE	\$22.10
	FRINGE BENEFITS	12.36

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:

HEAVY & HIGHWAY	BASE RATE	\$22.70
	FRINGE BENEFITS	12.36

OPERATING ENGINEERS:

Group A-1:
NCCCO or OECF Certified; Crane, dragline, hoist (1 drum when used for stack or chimney construction or repair), hoisting engineer (2 or more drums), orangepeel, overhead crane, piledriver, truck crane, tower crane, hydraulic crane:

BASE RATE	\$29.95
FRINGE BENEFITS	14.15

CLASSIFICATIONS

RATE AND FRINGE BENEFITS

OPERATING ENGINEERS (CONTINUED):

Group A:

Auto patrol, batcher 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 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 points, 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, gradeall, 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:

BASE RATE \$28.85
FRINGE BENEFITS 14.15

Group B:

All air compressors (200 cu. ft. per min. or greater capacity), bituminous mixer, concrete mixer (under 21 cu. ft.), welding machine, form grader, tractor (50 H.P. and over), bull float, finish machine, outboard motor boat, brakeman, mechanic helper, whirly oiler, tractair and road widening trencher, articulating trucks:

BASE RATE \$26.24
FRINGE BENEFITS 14.15

Group B2:

Greaser on grease facilities servicing heavy equipment:

BASE RATE \$26.65
FRINGE BENEFITS 14.15

Group C:

Bituminous distributor, cement gun, conveyor, mud jack, paving joint machine, pump, tamping machine, tractors (under 50 H.P.), vibrator, oiler, air compressors (under 200 cu. ft. per min. capacity), concrete saw, burlap and curing machine, hydro seeder, power form handling equipment, deckhand oiler, hydraulic post driver:

BASE RATE \$25.95
FRINGE BENEFITS 14.15

PAINTERS:

All Excluding Bridges:

BASE RATE \$19.92
FRINGE BENEFITS 9.57

Bridges:

BASE RATE \$23.92
FRINGE BENEFITS 10.07

CLASSIFICATIONS

RATE AND FRINGE BENEFITS

PLUMBERS:

BASE RATE \$22.52
 FRINGE BENEFITS 7.80

SHEET METAL:

BASE RATE \$20.40
 FRINGE BENEFITS 7.80

TRUCK DRIVERS:

Truck helper and warehouseman:

BASE RATE \$23.20
 FRINGE BENEFITS 14.50

Driver, winch truck and A-Frame when used in transporting materials:

BASE RATE \$23.30
 FRINGE BENEFITS 14.50

Driver, (semi-trailer or pole trailer), driver (dump truck, tandem axle), driver of distributor:

BASE RATE \$23.40
 FRINGE BENEFITS 14.50

Driver on mixer trucks (all types):

BASE RATE \$23.45
 FRINGE BENEFITS 14.50

Truck mechanic:

BASE RATE \$23.50
 FRINGE BENEFITS 14.50

Driver (3 tons and under), tire changer and truck mechanic helper:

BASE RATE \$23.53
 FRINGE BENEFITS 14.50

Driver on pavement breakers:

BASE RATE \$23.55
 FRINGE BENEFITS 14.50

Driver (over 3 tons), driver (truck mounted rotary drill):

BASE RATE \$23.74
 FRINGE BENEFITS 14.50

Driver, Euclid and other heavy earth moving equipment and Low Boy:

BASE RATE \$24.31
 FRINGE BENEFITS 14.50

Greaser on greasing facilities:

BASE RATE \$24.40
 FRINGE BENEFITS 14.50

Kentucky Determination No. CR-14-II-HWY dated July 14, 2014

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 the General Laborer except those classified as bona fide apprentices registered with the Kentucky State Apprenticeship Supervisor unless otherwise specified in this schedule of wage rates.

These rates are listed pursuant to the Kentucky Determination No. CR-14-II-HWY dated July 14, 2014. 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 contract or 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 numbers of hours worked in each classification at the prescribed hourly base rate.

OVERTIME:

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wage. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or to 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
12.0%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed. The notification shall be mailed to:

**Evelyn Teague, Regional Director
Office of Federal Contract Compliance Programs
61 Forsyth Street, SW, Suite 7B75
Atlanta, Georgia 30303-8609**

4. As used in this Notice, and in the contract resulting from this solicitation, the "**covered area**" is Barren County.

PART IV
INSURANCE

INSURANCE

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

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

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

PART V
BID ITEMS

PROPOSAL BID ITEMS

154214

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Report Date 7/7/15

Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	3,054.00	TON		\$	
0020	00020		TRAFFIC BOUND BASE	594.00	TON		\$	
0030	00078		CRUSHED AGGREGATE SIZE NO 2	1,530.00	TON		\$	
0040	00100		ASPHALT SEAL AGGREGATE	353.00	TON		\$	
0050	00103		ASPHALT SEAL COAT	42.00	TON		\$	
0060	00190		LEVELING & WEDGING PG64-22	1,231.00	TON		\$	
0070	00221		CL2 ASPH BASE 0.75D PG64-22	1,319.00	TON		\$	
0080	00307		CL2 ASPH SURF 0.38B PG64-22	3,944.00	TON		\$	
0090	00440		ENTRANCE PIPE-15 IN	2,621.00	LF		\$	
0100	00441		ENTRANCE PIPE-18 IN	109.00	LF		\$	
0110	00450		ENTRANCE PIPE-15 IN EQUIV	155.00	LF		\$	
0120	00462		CULVERT PIPE-18 IN	627.00	LF		\$	
0130	00464		CULVERT PIPE-24 IN	296.00	LF		\$	
0140	00466		CULVERT PIPE-30 IN	81.00	LF		\$	
0150	00468		CULVERT PIPE-36 IN	58.00	LF		\$	
0160	00496		CULVERT PIPE-36 IN EQUIV	50.00	LF		\$	
0170	01496		DROP BOX INLET TYPE 3	1.00	EACH		\$	
0180	02014		BARRICADE-TYPE III	2.00	EACH		\$	
0190	02200		ROADWAY EXCAVATION	1,775.00	CUYD		\$	
0200	02230		EMBANKMENT IN PLACE	4,545.00	CUYD		\$	
0210	02237		DITCHING	10,335.00	LF		\$	
0220	02259		FENCE-TEMP	7,000.00	LF		\$	
0230	02268		REMOVE & REPLACE FENCE (IN LIKE KIND)	7,000.00	LF		\$	
0240	02483		CHANNEL LINING CLASS II	165.00	TON		\$	
0250	02562		TEMPORARY SIGNS	459.00	SQFT		\$	
0260	02567		DELINEATOR POSTS	74.00	EACH		\$	
0270	02585		EDGE KEY	200.00	LF		\$	
0280	02650		MAINTAIN & CONTROL TRAFFIC (BARREN CO. KY 2189)	1.00	LS		\$	
0290	02676		MOBILIZATION FOR MILL & TEXT (BARREN CO. KY 2189)	1.00	LS		\$	
0300	02677		ASPHALT PAVE MILLING & TEXTURING	100.00	TON		\$	
0310	02690		SAFELoading	7.00	CUYD		\$	
0320	02701		TEMP SILT FENCE	5,000.00	LF		\$	
0330	02702		SAND FOR BLOTTER	58.00	TON		\$	
0340	02704		SILT TRAP TYPE B	66.00	EACH		\$	
0350	02705		SILT TRAP TYPE C	22.00	EACH		\$	
0360	02707		CLEAN SILT TRAP TYPE B	66.00	EACH		\$	
0370	02708		CLEAN SILT TRAP TYPE C	22.00	EACH		\$	
0380	02714		SHOULDERING	29,725.00	LF		\$	
0390	02726		STAKING (BARREN CO. KY 2189)	1.00	LS		\$	
0400	03269		TRIM & REMOVE TREES & BRUSH	3,000.00	LF		\$	
0410	05950		EROSION CONTROL BLANKET	4,600.00	SQYD		\$	
0420	05953		TEMP SEEDING AND PROTECTION	70,400.00	SQYD		\$	
0430	05963		INITIAL FERTILIZER	3.50	TON		\$	
0440	05964		20-10-10 FERTILIZER	3.50	TON		\$	
0450	05985		SEEDING AND PROTECTION	70,400.00	SQYD		\$	

PROPOSAL BID ITEMS

154214

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Report Date 7/7/15

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0460	05992		AGRICULTURAL LIMESTONE	3.50	TON		\$	
0470	06510		PAVE STRIPING-TEMP PAINT-4 IN	126,800.00	LF		\$	
0480	06514		PAVE STRIPING-PERM PAINT-4 IN	126,800.00	LF		\$	
0490	06567		PAVE MARKING-THERMO STOP BAR-12IN	50.00	LF		\$	
0500	08100		CONCRETE-CLASS A	9.00	CUYD		\$	
0510	10020NS		FUEL ADJUSTMENT	11,869.00	DOLL	\$1.00	\$	\$11,869.00
0520	10030NS		ASPHALT ADJUSTMENT	25,131.00	DOLL	\$1.00	\$	\$25,131.00
0530	20000ES724		TREE (MAPLE OR POPLAR SPECIES - 3" DIAMETER 16' - 18' TALL)	6.00	EACH		\$	
0540	20418ED		REMOVE & RELOCATE SIGNS	87.00	EACH		\$	
0550	23274EN11F		TURF REINFORCEMENT MAT 1	100.00	SQYD		\$	
0560	24575ES610		HEADWALL (MITERED, CONCRETE SLOPED)	43.00	EACH		\$	

Section: 0002 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0570	02569		DEMOBILIZATION	1.00	LS		\$	