



CALL NO. 202

CONTRACT ID. 112911

VARIOUS COUNTIES

FED/STATE PROJECT NUMBER 121GR11M111-BRO

DESCRIPTION SCOUR COUNTERMEASURES PACKAGE A - DISTRICT 1

WORK TYPE BRIDGE SCOUR MITIGATION

PRIMARY COMPLETION DATE 3/31/2012

LETTING DATE: September 23, 2011

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME September 23, 2011. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

DBE CERTIFICATION REQUIRED - 0%

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

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PART I
SCOPE OF WORK

CONTRACT ID - 112911

ADMINISTRATIVE DISTRICT - 01

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - VARIOUS
121GR11M111-BRO

SCOUR COUNTERMEASURES PACKAGE A - DISTRICT 1

COUNTY - BALLARD
BRO 3000 (855)

PES - MB00403581101

SCOUR COUNTERMEASURES-KY 358 OVER HUMPHREY'S CREEK BALLARD COUNTY-KY 358 OVER HUMPHREY'S CREEK (MP 9.344). BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 37^05'32" LONGITUDE 88^58'30"

COUNTY - CALLOWAY
BRO 3000 (855)

PES - MB01804641101

SCOUR COUNTERMEASURES-KY 464 OVER ROCKHOUSE CREEK CALLOWAY COUNTY-KY 464 OVER ROCKHOUSE CREEK (MP 10.248) B00086N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36^42'19" LONGITUDE 88^18'54"

COUNTY - CALLOWAY
BRO 3000 (855)

PES - MB01813461101

SCOUR COUNTERMEASURES-KY 1346 OVER JONATHAN CREEK CALLOWAY COUNTY-KY 1346 OVER JONATHAN CREEK (MP 4.076) B00066N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36^43'32" LONGITUDE 88^13'55"

COUNTY - CALLOWAY
BRO 3000 (855)

PES - MB01813461102

SCOUR COUNTERMEASURES-KY 1346 OVER CLARK'S RIVER CALLOWAY COUNTY-KY 1346 OVER CLARK'S RIVER (MP 1.380) B00099N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36^44'33" LONGITUDE 88^16'37"

COUNTY - CALLOWAY
BRO 3000 (855)

PES - MB01818361101

SCOUR COUNTERMEASURES-KY 1836 OVER DAMON CREEK CALLOWAY COUNTY-KY 1836 OVER DAMON CREEK (MP 8.308) B00015N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36^43'07" LONGITUDE 88^27'33"

COUNTY - CALLOWAY
BRO 3000 (855)

PES - MB01818361102

SCOUR COUNTERMEASURES-KY 1836 OVER DARNELL CREEK CALLOWAY COUNTY-KY 1836 OVER DARNELL CREEK (MP 2.180) B00085N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36^38'06" LONGITUDE 88^26'31"

COUNTY - CARLISLE
BRO 3000 (855)

PES - MB02013711101

SCOUR COUNTERMEASURES-KY 1371 OVER MAYFIELD CREEK CARLISLE COUNTY-KY 1371 OVER MAYFIELD CREEK (MP 6.775) B00041N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36^52'02" LONGITUDE 88^55'36"

COUNTY - GRAVES
BRO 3000 (855)

PES - MB04203391101

SCOUR COUNTERMEASURES-KY 339 OVER WILSON CREEK GRAVES COUNTY-KY 339 OVER WILSON CREEK (MP 32.250) B00133N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36^52'40" LONGITUDE 88^46'25"

COUNTY - GRAVES
BRO 3000 (855)

PES - MB04208491101

SCOUR COUNTERMEASURES-KY 849 OVER MAYFIELD CREEK GRAVES COUNTY-KY 849 OVER MAYFIELD CREEK (MP 10.765) B00084N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36^53'07" LONGITUDE 88^38'11"

COUNTY - GRAVES
BRO 3000 (855)

PES - MB04218201101

SCOUR COUNTERMEASURES-KY 1820 OVER BRUSH CREEK GRAVES COUNTY-KY 1820 OVER BRUSH CREEK (MP 0.027) B00196N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36^56'46" LONGITUDE 88^48'45"

CONTRACT ID - 112911 (CONTINUED)

COUNTY - MCCracken PES - MB07313221101
BRO 3000 (855)
SCOUR COUNTERMEASURES-KY 1322 OVER DRAINAGE DITCH MCCracken COUNTY-KY 1322 OVER DRAINAGE
DITCH (MP 6.565) B00078N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 37°01'26" LONGITUDE 88°42'06"

COUNTY - MARSHALL PES - MB07904081101
BRO 3000 (855)
SCOUR COUNTERMEASURES-KY 408 OVER MAYFIELD CREEK MARSHALL COUNTY-KY 408 OVER MAYFIELD
CREEK (MP 8.832) B00017N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36°51'27" LONGITUDE 88°19'57"

COUNTY - MARSHALL PES - MB07904081102
BRO 3000 (855)
SCOUR COUNTERMEASURES-KY 408 OVER CLARK'S RIVER MARSHALL COUNTY-KY 408 OVER CLARK'S RIVER
(MP 8.952) B00018N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36°51'28" LONGITUDE 88°19'49"

COUNTY - TRIGG PES - MB11110621101
BRO 3000 (855)
SCOUR COUNTERMEASURES-KY 1062 OVER DONALDSON CREEK TRIGG COUNTY-KY 1062 OVER DONALDSON
CREEK (MP 1.532) B00032N. BRIDGE SCOUR MITIGATION. SYP NO. 01-01139.00.
GEOGRAPHIC COORDINATES LATITUDE 36°46'21" LONGITUDE 87°53'45"

CONTRACT ID - 112911 (CONTINUED)

COMPLETION DATE(S):

COMPLETION DATE - March 31, 2012
APPLIES TO ENTIRE CONTRACT

10 CALENDAR DAYS
004B00023N

5 CALENDAR DAYS
018B00015N

5 CALENDAR DAYS
018B00066N

3 CALENDAR DAYS
018B00085N

10 CALENDAR DAYS
018B00086N

5 CALENDAR DAYS
018B00099N

10 CALENDAR DAYS
020B00041N

10 CALENDAR DAYS
042B00084N

10 CALENDAR DAYS
042B00133N

3 CALENDAR DAYS
042B00196N

14 CALENDAR DAYS
073B00078N

5 CALENDAR DAYS
079B00017N

5 CALENDAR DAYS
079B00018N

14 CALENDAR DAYS
111B00032N

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/contract)

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 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.

04/28/2011

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.

FHWA 1273

Contrary to Paragraph VI of FHWA 1273, contractors on National Highway System (NHS) Projects of \$1 million or more are no longer required to submit Form FHWA-47.

Contrary to Form FHWA-1273, Section V, paragraph 2.b personal addresses and full social security numbers (SSN) shall not be included on weekly payroll submissions by contractors and subcontractors. Contractors and subcontractors shall include the last four digits of the employee’s SSN as an individually identifying number for each employee on the weekly payroll submittal. This in no way changes the requirement that contractors and subcontractors maintain complete SSN and home addresses for employees and provide this information upon request of KYTC, FHWA, and the U.S. Department of Labor.

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 READ PUBLICLY. 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 printed bid packet. 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

All bidders are encouraged to submit their General DBE Participation Plan with their bid on the official form. Lowest responsive bidders whose bid packages include DBE Participation Plans may be awarded the contract at the next Awards Committee meeting provided that the DBE goal is met. 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;
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.

The apparent low bidder who does not submit a General DBE Participation Plan with the bid shall submit it within 10 calendar days after receipt of notification that they are the apparent low bidder. The project will not be considered for award prior to submission and approval of the apparent low bidder's DBE Participation Plan.

Detailed DBE Participation Plan forms will be included in the Contractor Package presented to successful bidders following the awarding of the project. The Detailed DBE Participation Plan must be completed and returned to Contract Procurement in accordance with Cabinet policy. A copy of the blank estimate will be included with the Detailed DBE Participation Plan to list sequence items by PCN (Project Control Number).

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.

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/forms/DBEcheck.xls>

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.

06/29/2009

Contract ID Number

Project Number:

Designated DBE Goal %

DBE Company Name

Address

City, State, Zip

Federal Tax ID

Type of DBE Work: (all applicable)

Supplier _____ Subcontractor _____ Manufacturer _____

Engineering

Other

Itemized worked to be performed by DBE Company:

[illegible]

****Note:** 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

Total This DBE

Total Bid

% Credited toward Goal, this DBE

Prime Contractor's Signature: _____

Title: _____

Date: _____

DBE Participant Signature:

Title:

Date:

***This form must be completed for each DBE participant**

| Prime Contractor | | Cont-ID | |
|--|--------|-------------------|--------|
| | | | |
| DBE Contractor | | CHECK # | |
| | | | |
| PAYMENT DATE | | Amount of Payment | |
| | | | |
| Use the section below to show multiple payments using the same check | | | |
| Cont-ID | Amount | Cont-ID | Amount |
| | | | |
| | | | |
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Comments:

attach copy of check here

Mail to:
Office of Civil Rights and Small Business Development
200 Mero Street
6th Floor West TCOB
Frankfort, KY 40622

to be Submitted within 7 days of receipt of payment from KYTC

KYTC Scour Countermeasures Program

CONTRACT READY PLAN Package A

District 1

Ballard County, Bridge No. 004B00023N
Calloway County, Bridge No. 018B00015N
Calloway County, Bridge No. 018B00066N
Calloway County, Bridge No. 018B00085N
Calloway County, Bridge No. 018B00086N
Calloway County, Bridge No. 018B00099N
Carlisle County, Bridge No. 020B00041N
Graves County, Bridge No. 042B00084N
Graves County, Bridge No. 042B00133N
Graves County, Bridge No. 042B00196N
McCracken County, Bridge No. 073B00078N
Marshall County, Bridge No. 079B00017N
Marshall County, Bridge No. 079B00018N
Trigg County, Bridge No. 111B00032N



KYTC Scour Countermeasures Program Package A



Executive Summary Note

Bridge 004B00023N

Debris has accumulated along Pier 2 and Pier 3. The debris appears to have caused scour around and slightly downstream of Pier 2. Waste concrete is present along the left side of Pier 1. The existing concrete apron on the left spill through slope has fractured and a large sediment deposit is present between Pier 4 and the right abutment. Also a damaged/non-functioning Debris Free system frame remains on the upstream face of Pier 2.

The countermeasures recommended for this bridge are debris removal, Debris Free system removal, sediment removal, and the application of channel lining. A debris rack with approximate dimensions of 28L x 10W x 3D (feet) and 37L x 5W x 1D (feet) shall be removed from Piers 2 and 3, respectively. All debris is to be disposed of properly, away from the channel and floodplain. Additionally, the remaining equipment associated with the Debris Free unit on the upstream face of Pier 2 as well as waste concrete along Pier 1 should be removed and disposed of properly.

Approximately 300 tons of Class III channel lining shall be applied at all piers to help protect the bridge piers from scour. Channel lining placed at Piers 1 and 3 should have the approximate dimensions of 40L x 9W x 2D (feet). Channel lining placed at Pier 2 should have the approximate dimensions of 40L x 20W x 3.5D (feet) and shall fill the existing scour hole present around the pier. Channel lining placed at Pier 4 should have the approximate dimensions of 40L x 6W x 2D (feet) to help protect the pier from erosion. Prior to placing channel lining at Pier 4, approximately 3 cubic yards of sediment should be removed from the downstream end of the pier. All areas receiving channel lining shall be underlain by Type I non-woven geotextile fabric covered with a 2-inch layer of No. 57 crushed stone. Approximately 380 square yards of Type I non-woven geotextile fabric and 20 tons of No. 57 crushed stone will be needed to cover this area.

Any areas disturbed by construction should be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 018B00015N

The stream has migrated to the far right of the structure, attacking the right abutment. The upstream end of the left abutment is also being scoured by the angle of attack of the stream. Sheet piling has been previously installed in this location. A gravel bar has developed under the left portion of the bridge, creating a flow restriction. Debris has accumulated on the upstream left abutment and along the gravel bar.

The recommended countermeasures for this bridge are debris removal, application of channel lining, and installing concrete collars to both abutments. Two debris racks with approximate dimensions of 20L x 5W x 2D (feet) and 15L x 5W x 3D (feet) shall be



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removed from the upstream face of the left abutment and beneath the bridge deck. All debris is to be disposed of properly, away from the channel and floodplain.

Approximately 53 cubic yards of Class A concrete shall be used to construct the concrete collars at both abutments to help protect against undermining. The abutment collars shall be 4W x 5.5D (feet) and wrap around the upstream and downstream face of each abutment (see sketch). A total of 260 feet of #5 steel reinforcement bar shall be placed on 24-inch centers. If bedrock is encountered, the #5 steel reinforcement bar shall be embedded 1 foot into bedrock to reinforce the collars. Also, a longitudinal #5 steel reinforcement bar shall be placed around each collar and tied to the vertical reinforcement. The longitudinal bar shall be centered approximately 3 inches minimum from the top of the proposed concrete collar and have a minimum lap of 18 inches.

The scour hole along the right abutment shall be filled with Class III channel lining once the concrete collar is constructed to help protect the collar. The scour hole has approximate dimensions of 30L x 5W x 2.5D (feet). Approximately 24 tons of Class III channel lining shall be placed at this location. The channel lining shall be lined with Type I non-woven geotextile fabric under a 2-inch layer of No. 57 crushed stone. This will require approximately 15 square yards of Type I non-woven geotextile fabric and 1 tons of No. 57 crushed stone.

Approximately 40 feet of 3-strand barbed wire fence may need to be removed and replaced to gain access to the site. Coordinate with property owner to avoid any issues with livestock that may be present. Any areas disturbed by construction should be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 018B00066N

Debris was observed along the upstream portions of Piers 1 and 2. It appears that roadway drainage has caused the undermining observed along each abutment. An area along the upstream end of the left abutment was observed to have had flowable concrete fill placed to fill undermining.

The recommended countermeasures for this bridge include debris removal, placement of channel lining, and backfill at each abutment. Debris racks with approximate dimensions of 15L x 3W x 2D (feet) and 20L x 10W x 7D (feet) shall be removed from Piers 1 and 2. All debris is to be disposed of properly, away from the channel and out of the floodplain.

Approximately 60 tons of Class III channel lining shall be placed at each abutment and wingwall. The channel lining placed at the left abutment and wingwalls shall measure 50L x 4W x 2D (feet). Channel lining placed at the right abutment and wingwalls shall measure 50L x 4W x 2D (feet). Prior to channel lining placement, areas of undermining along the abutments shall be filled with No. 57 crushed. Both areas shall be lined with 2 inches of No. 57 crushed stone underlain by Type I non-woven geotextile fabric. The channel lining and No. 57 crushed stone should help prevent undermining caused by



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roadway drainage. This shall require approximately 85 square yards of Type I non-woven geotextile fabric and 14 tons of No. 57 crushed stone.

Mature trees located in the floodplain shall be avoided. Contractor should also note that the stream bed consists of very soft sediment. Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 018B00085N

A small amount of debris has accumulated near the upstream face of Pier 2. Scour is evident at Pier 2 with approximate dimensions of 20L x 14W x 4D (feet). Both spill through slopes are protected with existing channel lining.

The recommended countermeasures for this bridge are debris removal and the application of channel lining. A debris rack having approximate dimensions of 5L x 15W x 4D (feet) at the upstream face of Pier 2 shall be removed. All debris is to be disposed of properly, away from the channel and floodplain.

Approximately 70 tons of Class III channel lining shall be placed around the entire perimeter and between the columns of Piers 1 and 2 to reduce the potential for scour. Channel lining placed at Piers 1 and 2 should have the approximate dimensions of 30L x 12W x 3D (feet). All areas receiving channel lining shall be underlain by Type I non-woven geotextile fabric covered with a 2-inch layer of No. 57 crushed stone. Approximately 35 square yards of Type I non-woven geotextile fabric and 2.5 tons of No. 57 crushed stone will be needed to cover this area.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 018B00086N

A lateral drainage ditch entering the channel on the upstream right side of the bridge has contributed to scour at Pier 2. A scour hole approximately 4 feet deep, extending across the channel from Pier 2 to the toe of the right bank, has developed at this location. A limited amount of existing channel lining was observed at each abutment.

The recommended countermeasures for this bridge are debris removal and application of channel lining. A debris rack having approximate dimensions of 5L x 5W x 5D (feet) shall be removed from the downstream area of Pier 1. All debris is to be disposed of properly, away from the channel and out of the floodplain.

Approximately 75 tons of Class III channel lining shall be placed around the entire perimeter and between the columns of Pier 2. The channel lining shall be placed with approximate dimensions of 32L x 12W x 3D (feet). All areas receiving channel lining shall be underlain by Type I non-woven geotextile fabric covered with a 2-inch layer of



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No. 57 crushed stone. Approximately 35 square yards of Type I non-woven geotextile fabric and 2.5 tons of No. 57 crushed stone will be needed to cover this area.

Approximately 725 tons of Class III channel lining shall be placed at an approximate 3.5:1 (H:V) slope from the extents of the lining placed around pier 2 to the right abutment and extend from 10 feet upstream of the right abutment to 30 feet downstream of the right abutment (see sketch). The approximate dimensions for this application of channel lining shall be 70L x 36W (feet) with the depth varying from 2 to approximately 7 feet. Prior to placement of the channel lining, the area shall be lined with 2 inches of No. 57 crushed stone underlain by Type I non-woven geotextile fabric. This application of channel lining will be used to reduce the potential for scour caused by the adjoining drainage ditch and high stream flow events. This will require approximately 355 square yards of Type I non-woven geotextile fabric and 29.5 tons of No. 57 crushed stone.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 018B00099N

In 2001 it was reported that approximately two feet of scour was observed around Pier 1 with dimensions of 33L x 10W x 2D (feet). During the field inspection, Pier 1 was noted as the only bridge element in contact with the stream and the water levels on the right face of the pier were too high/deep to safely wade. Therefore, for the purpose of recommending countermeasures, it was assumed that the 2001 scour dimensions have not significantly changed.

The recommended countermeasure for this bridge is to place channel lining around Pier 1 to help reduce the potential for scour caused by high flow events. Approximately 115 tons of Class III channel lining shall be placed around the perimeter of Pier 1 with approximate dimensions of 41L x 11.5W x 4D (feet). Prior to channel lining placement, the area shall be lined with 2 inches of No. 57 crushed stone underlain by Type I non-woven geotextile fabric. This will require approximately 125 square yards of Type I geotextile fabric and 5 tons of No. 57 crushed stone.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 020B00041N

Debris racks have accumulated on Piers 2 and 3 and is contributing to scour problems at the two piers. Due to roadway drainage undermining and/or erosion was observed at each abutment.

The recommended countermeasures for this bridge include debris removal, placement of channel lining, and backfilling of undermined areas. Debris racks having approximate dimensions of 20L x 12W x 8D (feet) and 25L x 25W x 6D (feet) shall be removed from



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the upstream faces of Pier 2 and 3, respectively. All debris is to be disposed of properly, away from the channel and floodplain.

Approximately 300 tons of Class III channel lining shall be placed around the perimeters of Piers 2 and 3 to help reduce the potential for scour caused by high flow events. Piers 2 and 3 should each have channel lining placed at approximate dimensions of 42L x 14W x 4D (feet) (see sketch). Prior to backfill, each area shall be lined with 2 inches of No. 57 crushed stone underlain by Type I non-woven geotextile fabric. This will require approximately 100 square yards of Type I non-woven geotextile fabric and 9 tons of No. 57 crushed stone.

Approximately 25 tons of Class III channel lining shall be placed at Abutments 1 and 2 where undermining is present to help prevent further undermining from occurring. The channel lining shall be placed with approximate dimensions of 30L x 5W x 2D (feet) at Abutment 1 and 30L x 3W x 2D (feet) at Abutment 2. Prior to channel lining backfill, the undermined areas shall be filled with 1 foot of No. 57 crushed stone at Abutment 1 and 2 feet of No. 57 crushed stone at Abutment 2 (see sketch). All areas to be filled with No. 57 crushed stone and channel lining shall be underlain by Type I non-woven geotextile. This will require approximately 35 square yards of Type I non-woven geotextile fabric and 20.5 tons of No. 57 crushed stone.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 042B00084N

A large debris rack has been removed from the upstream face and between Piers 2, 3 and 4. The debris rack was placed in the floodplain near the structure.

The recommended countermeasure for this bridge is removal of the drift pile. The debris pile with approximate dimensions of 75L x 55W (feet) and a depth of about 10 feet, shall be removed from the floodplain. All debris is to be disposed of properly, away from the channel and floodplain.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 042B00133N

A large debris rack has accumulated between Piers 1 and 2 with some debris also present along Pier 3. The debris has caused three scour pools up to 15-foot wide and 4-foot deep as well as a gravel bar to form near Piers 1 and 2. Two-foot A-Jacks have been placed around Pier 2 in previous scour mitigation activities.



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The countermeasures recommended for this bridge are debris removal, placement of channel lining, and excavation and backfill. Debris racks with approximate dimensions of 50L x 35W x 5D (feet) and 12L x 3W x 1D (feet) are present between Piers 1 and 2 with a smaller amount along Pier 3 (see sketch). This debris shall be removed and disposed of properly away from the channel and floodplain.

Approximately 210 tons of Class III channel lining shall be placed around the perimeter of piers 1 and 3 and in the scour pools located and the left and right of Pier 2 to help reduce the potential for scour caused by high flow events. The Class III channel lining shall be placed with approximate dimensions of 28L x 8W x 2D (feet) at each pier, 15L x 25W x 4D (feet) at the scour pool left of Pier 2, and 10L x 15W x 3D (feet) at the scour pool right of Pier 2. Care should be taken while excavating to not disturb existing A-Jack placement. If A-Jacks are present within the limits of proposed channel lining placement, the channel lining shall be placed up to, but not within, the limits of existing A-Jacks. Prior to channel lining placement, the areas shall be lined with 2 inches of No. 57 crushed stone underlain by Type I non-woven geotextile fabric. This shall require approximately 205 square yards of Type I non-woven geotextile fabric and 11 tons of No. 57 crushed stone.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 042B00196N

Debris racks have accumulated along Pier 1, Pier 2, and along the left abutment. The debris rack located on Pier 1 has created a scour hole along the right face of the pier. The debris is blocking approximately 20 percent of the bridge opening width. A large sediment deposit is present between Pier 2 and the right abutment.

The countermeasure recommended for this bridge is debris removal. Debris with approximate dimensions of 35L x 15W x 3D (feet), 35L x 15W x 3D (feet), and 35L x 6W x 2D (feet) has built up on Pier 1, Pier 2, and the left abutment, respectively. It is recommended that the debris be removed and disposed of properly, away from the channel and floodplain.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 073B00078N

This structure is a triple barrel concrete box culvert. A debris rack was observed at the upstream face of the culvert. Bank erosion was present behind, and downstream of both the downstream wingwalls. A small scour hole was present at the upstream face of the culvert and apparent degradation of the downstream channel has caused an elevation difference of 6 feet between the culvert floor and the channel bed resulting in the downstream face being exposed and undermined. A fracture with approximate



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dimensions 11L x 1W x 1.5D (feet) was noted to extend up from the bottom of Element 4 to the top of the wingwall at the upstream face of the culvert.

The countermeasures recommended for this structure are debris removal, placement of channel lining, placement of a concrete apron, and replacement of a concrete wingwall. The debris rack present at the upstream face of the culvert with approximate dimensions of 8L x 20W x 8D (feet) shall be removed and disposed of properly, away from the channel and floodplain.

Approximately 30 tons of Class III channel lining shall be placed at the upstream face of the culvert. The channel lining shall be placed with approximate dimensions of 4L x 60W x 2D (feet) at the upstream culvert face. The top of the channel lining shall match the culvert floor elevation. This may require approximately 5 cubic yards of excavation. Prior to channel lining placement, the area shall be underlain by 2 inches of No. 57 crushed stone over Type I non-woven geotextile fabric. This shall require approximately 30 square yards of Type I non-woven geotextile fabric and 2 tons of No. 57 crushed stone.

Approximately 16 cubic yards of class AA concrete and 960 pounds of steel reinforcement shall be required to replace the existing wing wall on the upstream side of element 4.

Approximately 260 tons of no. 57 crushed stone shall be placed at the downstream face of the culvert to fill the scour holes and provide a base for the concrete apron. The no. 57 crushed stone shall be placed with approximate dimensions of 30L x 42W x 6 to 1 (varies)D (feet) (see sketch). No. 57 stone placed on the downstream face of the culvert shall be oriented on a maximum 2:1 (H:V) slope as a base for the concrete apron. Prior to No. 57 crushed stone placement, the stone will be underlain by Type I non-woven geotextile fabric. This shall require approximately 180 square yards of Type I non-woven geotextile fabric. The concrete apron will require approximately 44 cubic yards of class A concrete, 1,940 pounds of steel reinforcement, 75 linear feet (approx. 400 LF of driving) of 8 gauge sheet piling (18 inch sections) placed to a depth of up to 8 feet below the existing stream bed elevation, and 75 tons of class III channel lining at the downstream toe of the apron (see sketch).

Approximately 200 tons of Class III channel lining shall be placed at a 1.5:1 (H:V) slope behind the downstream wingwalls and along the downstream banks with the approximate dimensions shown on the sketches. Placement of this channel lining shall help protect the slopes from further erosion. Prior to channel lining placement, both banks shall be reggraded to an approximate 1.5:1 (H:V) slope. The limits of the reggraded slopes shall tie into exiting grade to provide a smooth transition. The channel lining shall be underlain by 2 inches of No. 57 crushed stone over Type I non-woven geotextile fabric. This shall require approximately 140 square yards of Type I non-woven geotextile fabric and 12 tons of No. 57 crushed stone.

Contractor should note that underground utility lines appear to be exposed in the channel approximately 85 feet downstream. Buried fiber optic cable is present



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approximately 15 feet upstream. Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 079B00017N

On the date of inspection, the water level was too high/deep to safely inspect the piers for scour. Based on the 2001 scour inspection a small amount of scour was observed on Piers 1 and 2 and was 1 to 2 feet deep. The concrete apron on the left abutment has failed, but has been repaired with channel lining and appears to be in fair condition.

The recommended countermeasures for this bridge are to apply channel lining around both piers and along the right abutment to help reduce the potential for scour caused by high flow events. Approximately 248 tons of Class III channel lining shall be placed around each pier having approximate dimensions of 35L x 14W x 4D (feet). Approximately 20 tons of Class II channel lining shall be placed along the right abutment having approximate dimensions of 27L x 6W x 2D (feet). Prior to channel lining placement, the areas shall be lined with 2 inches of No. 57 crushed stone underlain by Type I non-woven geotextile fabric. This will require approximately 105 square yards of Type I non-woven geotextile fabric and 8.5 tons of No. 57 crushed stone.

The upstream and downstream areas of this bridge are a part of the Clarks River Wildlife Management Area. Prior to construction the Kentucky Department of Fish and Wildlife should be contacted in regards to any special construction issues.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 079B00018N

On the date of inspection, the water level was too high/deep to safely inspect the piers for scour. Debris was observed in the channel approximately 75 feet upstream and downstream of the bridge. Each debris rack was estimated to be approximately 10 cubic yards. Based on the 2001 scour inspection, 6 to 8 feet deep local scour was observed at both piers; however, the channel was too deep to measure the exact scour dimensions.

The recommended countermeasure for this bridge is to apply channel lining across the entire channel. Approximately 255 tons of Class III channel lining shall be placed under the bridge, with approximate dimensions of 50L x 40W x 2D (feet), to help reduce the potential for scour caused by high flow events. The channel lining shall extend a minimum of 10 feet upstream and downstream of the bridge (see sketch). Prior to channel lining placement, the area shall be lined with 2 inches of No. 57 crushed stone underlain by Type I non-woven geotextile fabric. This will require approximately 230 square yards of Type I non-woven geotextile fabric and 19 tons of No. 57 crushed stone.



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The upstream and downstream areas of this bridge area a part of the Clarks River Wildlife Management Area. Prior to construction, the Kentucky Department of Fish and Wildlife should be contacted in regards to any special construction issues.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.

Bridge 111B00032N

This structure is a triple barrel concrete box culvert with associated wingwalls. At the time of inspection the creek was experiencing high flow conditions making visual determinations of scour difficult. However, by means of probing several large scour holes were detected. The upstream face of the box culvert had two scour holes present, located near Elements 2 and 3. Each scour hole was estimated to be 4L x 15W x 2 - 5D (feet). It appears that the downstream channel has degraded causing a scour hole approximately 10L x 40W x 3-7D (feet) to develop at the downstream face. Severe bank erosion was present along the downstream left bank. Debris racks have accumulated along Elements 2 and 3.

Countermeasures recommended for this bridge are debris removal, the application of channel lining, and the placement of a concrete apron. Debris racks with approximate dimensions of 25L x 4W x 1D (feet) and 25L x 3W x 1D (feet) are present along Elements 2 and 3 (see sketch). This debris shall be removed and disposed of properly away from the channel and out of the floodplain.

Approximately 95 tons of Class III channel lining shall be placed at the upstream and downstream faces of the culvert to fill the scour holes and help dissipate the energy from water dropping from the downstream face. The channel lining shall be placed with approximate dimensions of 4L x 54W x 2-5D (feet) along the upstream face and approximately 4L x 75W x 4D (feet) along the downstream face of the concrete apron (see sketch). Prior to channel lining placement along the upstream face, the areas shall be lined with 2 inches of No. 57 crushed stone underlain by Type I non-woven geotextile fabric. This shall require approximately 30 square yards of Type I non-woven geotextile fabric and 6.5 tons of No. 57 crushed stone.

Approximately 185 tons of No. 57 stone shall be placed on the downstream face of the culvert oriented on a maximum 2:1 slope to establish a base for the concrete apron. The concrete apron will require approximately 36 cubic yards of class AA concrete, 1,600 pounds of steel reinforcement, and 75 linear feet (approx. 400 LF of driving) of 8 gauge sheet piling (18 inch sections) placed to a depth of up to 8 feet below the existing stream bed elevation.

Approximately 90 tons of Class III channel lining shall be placed on the downstream left bank with approximate dimensions of 40L x 10W x 3D to prevent further bank erosion. Prior to channel lining placement, the downstream left bank shall be regraded to an approximate 2:1 (H:V) slope within 40 feet of the bridge. This shall require approximately 60 cubic yards of excavation. The regrading limits shall tie into existing grade to provide a smooth transition. The channel lining shall be underlain by 2 inches



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of No. 57 crushed stone over Type I non-woven geotextile. This shall require approximately 40 square yards of Type I non-woven geotextile fabric and 4.5 tons of No. 57 crushed stone.

Any areas disturbed by construction shall be re-seeded to prevent erosion and restore aesthetics around the bridge.



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SPECIAL NOTE FOR SITE PREPARATION

I. Site Preparation General

Proper planning must be used before any work is initiated. This shall include but not be limited to: equipment/personnel, access/property entry, equipment storage (loading/ unloading), utility locates, traffic control, environmental concerns, proper permits, easements and notifications. The smallest practical work zone shall be used to minimize disturbance, erosion, and obstruction to the public, traffic, and environment. In addition, work within the stream will be performed such that the capacity of the bridge opening is not reduced, unless approved by the Engineer. All work shall be confined to 100 feet upstream or downstream of the bridge deck. Construction procedures and materials shall meet the requirements of the attached drawings, attached specifications and the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (KYTC, SSRBC), as applicable.

Site Preparation typically includes the installation, use and removal of access roads, creek crossings, pump-arounds, cofferdams, traffic control and site clearing necessary for the performance of work on the site.

The Contractor shall submit a detailed Best Management Practices (BMP) Plan to the Engineer, tailored to the Contractor's construction procedures in accordance with Section 213 of the Current KYTC, SSRBC.

II. Construction Access Location

All work shall be done from the roadway and the deck of the bridge when possible.

When the Contractor must construct an access road into the stream/site area, the Contractor must provide the Engineer with construction details and drawings for review/approval prior to commencement of work.

The access road shall be removed as soon as it is no longer necessary for construction and the stream and its banks shall be restored as close as possible to its original condition.

The contractor is responsible for negotiating with private land owners if the access will encroach upon private property, if required.

III. Removing/Resetting Right-of-Way Fence

Any fence that is removed or damaged during the construction shall be reset/replaced with a fence of equal or better quality in accordance with Sections 721 and 722 of the current KYTC, SSRBC.



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All woven wire gates shall be constructed in accordance with Standard Drawing RFG-001-06 and all chain link gates shall be constructed according to Standard Drawing RFG-005-05.

All woven wire fences shall be constructed in accordance with Standard Drawing Nos. RFW-001-04, RFW-005-06 and RFW-006-06.

All chain link fences shall be constructed in accordance with Standard Drawing Nos. RFC-001-07 and RFC-002-04.

IV. Removing/Resetting Guardrail

Any Guardrail that is removed or damaged during construction shall be reset/replaced in accordance with Section 719 of the current KYTC, SSRBC.

Guardrail replacement shall be in accordance with and not limited to the KYTC Standard Drawing that is appropriate for the site and type of bridge deck and/or roadway.

V. Construction of a Creek Crossing

The Contractor shall submit plans, cross-sections and construction details for any creek crossing required to the Engineer for review and approval prior to the commencement of any work.

The creek crossing will need to be removed as soon as it is no longer necessary for construction. The stream and its banks shall be restored as close as possible to original condition to the satisfaction of the Engineer.

VI. Clearing and Grubbing

Clearing and grubbing shall be performed only in the areas absolutely necessary to complete construction. Every effort shall be made to minimize the disturbance of trees and soil on this project.

Clearing and grubbing, when necessary, shall be in accordance with Section 202 of the current KYTC, SSRBC.

VII. Pump-Arounds

When the Contractor must use a pump-around, provide the Engineer with plans for review/approval prior to commencement of work. The plans shall include details containing location and profile sketches, estimated flow of the stream and size and capacity of the pumps to be used.

VIII. Measurement

Remove and Reset Fence. See section 721.04.



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IX. Payment

Remove and Reset Fence. See section 721.05.



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SPECIAL NOTE FOR SCOUR COUNTERMEASURE CONSTRUCTION

I. Drift Removal from Bridges

This work involves removing accumulated debris consisting of sediments, trees, logs, garbage, tires and other materials that have become lodged on or near the bridge opening. If any toxic or hazardous wastes or suspicious materials are encountered during construction, all work shall stop and the appropriate agencies shall be contacted immediately. Debris shall be disposed of off site, by landfilling, burying, or burning, as applicable.

Work during low flow periods except for emergency conditions.

Only emergency work shall be conducted within a stream during, April 15 through June 15.

This work is generally done by placing a crane on the bridge deck or roadway and using a clam bucket to dip out the material. No explosives shall be used to remove any material. Wood debris can be burned, hauled away or buried. Trash and tires shall be separated, removed and properly disposed of in the appropriate landfill. Disposal of drift/debris shall be in accordance with applicable federal, state, and local regulations.

A cable and winch may be used to pull large trees or logs from the stream. Where available, long boom track loaders may reach from the roadway to the streambed to remove the debris.

Personnel in the stream can saw large logs into smaller, more manageable pieces, before they are removed.

When the streambed is solid rock or is dry, loader(s) and/or truck(s) can be placed in the streambed to remove the material. Access points into the stream must be minimized to reduce the impact to the stream and shall be located within 100 feet upstream or downstream of the bridge.

Properties located downstream must be inspected for flooding potential if the debris removal involves removing a large block of material (i.e. beaver dam).

When large quantities of debris are to be removed, the removal activities shall be monitored to ensure gradual lowering of the upstream water level and gradual raising of the downstream water level. This gradual equalization will help control erosion upstream and downstream of the bridge.

Removal of Structures and Obstructions shall be in accordance with Section 203 of the current KYTC, SSRBC.



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Debris removal shall be measured per cubic yard of debris volume. The quantity of debris to be removed shall be measured in place by the Engineer prior to the beginning of any work at the site. Payment shall be made for the estimated quantity plus a twenty percent increase for swelling. This results in a multiplier of 1.2 times the measured in-place volume for payment quantities.

A. Disposal

a) Landfill

The debris may be taken to a solid waste landfill permitted to take municipal solid waste. When this is done, no whole tires, batteries, containers (buckets), barrels (empty or not) or hazardous waste may be in the waste taken to the landfill.

Permitted construction/demolition landfills may be used. The requirement to remove municipal-type waste from the debris applies to this method. Municipal-type waste is to be removed and disposed in a permitted solid waste disposal facility.

b) Burial

The disposal site shall be out of the floodplain and be able to handle the material without causing a nuisance. If the disposal site is in the floodplain and on private property, the owner(s) must obtain a permit from the Division of Water.

A consent release is required for use of private property. Solid waste shall not be co-mingled in the material to be buried. This would include tires, white goods, trash (garbage), containers (buckets) or barrels (empty or not), or any other foreign material.

The buried material shall be covered with enough soil to blend into the surrounding landscape, seeded for vegetation and shall be shaped so the cover material will stay in place and not move/erode.

c) Burning of Debris

Wood debris burning shall only be conducted after notifying the local fire chief, the Division of Air Quality, and the Division of Forestry to insure all Regulations that allow the burning are met.

Wood debris burning shall only be conducted if a site is available far enough away from the highway not to create a hazard to the public and smoke does not obscure the vision of the travelling public.

The Contractor must have sufficient personnel and equipment on the site ready to extinguish the fire at any given time. Any fire that causes a hazard



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or cannot be confined to the burn area must be completely extinguished as soon as possible. The fire must be extinguished before personnel leave the project site.

Burn areas must be approved by the Engineer, and the property owner must sign a "Consent and Release" form (TC 71-14) before burning on private property.

Burning is only to be completed on days when conditions do not pose a threat of igniting a forest fire. Burning during dates and times of banned burning shall not be allowed. When Regulations or conditions prohibit burning, use an alternate method approved by the Engineer.

Solid waste shall not be co-mingled in the debris to be burned. This would include tires, white goods, trash (garbage), containers (buckets) or barrels (empty or not), or any other foreign material.

Anything containing petroleum products that produces dense smoke shall not be used in the burn.

II. Sediment Removal

This work involves removing loose rock and sediment, which has deposited over time at bridge openings. This sedimentation may have caused misalignment of the stream at the structure inlet, often causing erosion of the channel banks, roadway embankments and/or bridge area.

This work is generally done by placing a backhoe or gradall excavator on the bank and removing the material blocking the flow of water to the structure. This material is typically loaded onto trucks and hauled away.

Work limits shall not exceed 100 feet upstream or downstream of the bridge deck. Machinery used in the stream must be minimized at all times and no explosives shall be used to remove any material within the work area.

When necessary, a track or rubber-tire loader may be placed directly into the stream to perform the work. This activity is generally done in a solid rock or rocky stream when the stream is completely dry, or not flowing. Bulldozers shall not be used for this work.

The material removed shall not be placed/stockpiled on the stream banks or in the floodplain where it may redeposit into the channel.

No work shall be conducted that shall destroy a threatened or endangered species.

Do not straighten or widen a stream channel and do not remove "riparian" vegetation from along the stream bank unless absolutely necessary. Especially, avoid removing large trees and do not undercut banks. Re-seed and mulch



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disturbed areas along the stream bank in accordance with Section 212 of the current KYTC, SSRBC.

When specified in the plans the sediment/removal equipment shall place the material one-bucket at a time into eroded areas, such that stream and/or bridge disturbance is at a minimum.

When practical, existing access roads into the stream/site area shall be utilized.

III. Excavation and Backfill

Any excavation around the bridge including embankment slopes and/or shoulder excavation for placement of scour countermeasures, removal of landslide material and construction of ditches to improve drainage within the project limits shall be in accordance with Section 204 of the current KYTC, SSRBC.

All excavation shall be done in such a manner as to not initiate or increase slope instability in approach slopes or existing stream banks. Excavations shall be graded or properly braced or shored to provide adequate safety to the people working in or around the excavations. Bracing shall be performed in accordance with applicable federal, state and local guidelines. The Engineer shall review all excavation procedures before and during construction.

All embankment foundation benching shall be excavated according to Standard Drawing RGX-010-03 and as directed by the Engineer.

All suitable material from on-site excavation intended for use as backfill around countermeasures and/or bridge elements shall be placed in accordance with Sections 206 and 603 of the current KYTC, SSRBC.

All ditches and/or shoulders to be excavated or constructed during the placement of rip-rap/channel lining shall be in accordance with Section 209 of the current KYTC, SSRBC.

IV. Concrete and Flowable Fill

Foundation preparation for the placement of flowable fill shall be in accordance with Sections 603 of the current KYTC, SSRBC.

All concrete and flowable fill shall be in accordance with Section 601 of the KYTC, SSRBC, and as directed by the Engineer.

All concrete placed under completely submerged conditions shall be Class A Modified in accordance with Section 601 of KYTC, SSRBC.

Early pulling of falsework and forms to reestablish traffic shall be subject to the approval of the Engineer.



KYTC Scour Countermeasures Program Package A



All patching and/or sealing of concrete or flowable fill shall be in accordance with Section 510 of the current KYTC, SSRBC.

V. Channel Lining and Cyclopean Stone Rip-Rap

All slope protection and channel lining shall be placed as directed by the Engineer and in accordance with Section 703 of the current KYTC, SSRBC.

Channel lining shall be placed in accordance with Standard Drawing No. RDD-040-04 and the attached sketch.

Placement of channel lining shall be done to protect bridge elements from scour and provide improved slope stability. However, the stone shall be placed in such a manner as to avoid reducing the bridge opening (the top of the rip rap shall not be above the streambed elevation unless directed by the Engineer).

Channel lining may be dumped from trucks and arranged by a backhoe or Gradall. However, if the material is scattering too much when being placed and not being positioned correctly, the material shall be placed with a backhoe, one-bucket at a time into the area to be treated and then arranged.

When necessary a track or rubber-tire loader can be placed directly into the stream to arrange the rock. This shall be done only on rock streambeds with little or no flow.

Geotextile fabric shall be placed under all channel lining and cyclopean stone rip-rap placed over fine grained soils to prevent washing/erosion of the fines and migration of the stone into the soils.

Areas to receive channel lining or cyclopean stone rip-rap greater than 5 inches in dimension and within the stream channel shall require a 2 to 3 inch thick layer of No. 57 stone, to be placed on top of the geotextile fabric before covering with large stone. The layer of gravel will help to anchor the fabric to the stream bottom, insure proper location of coverage area, and reduce the risk of the fabric becoming torn or punctured from large stone placement.

VI. Geotextile Fabric Type I

All geotextile fabric used for slope protection, channel lining and behind retaining walls shall be in accordance with Section 214 of the current KYTC, SSRBC.

Type I geotextile fabric shall be laid against the back face of the gabion wall before backfilling behind the wall.



KYTC Scour Countermeasures Program Package A



VII. Reinforced Concrete and Concrete Collars

All reinforced concrete shall be constructed according to Sections 601, 602 and 613 of the current KYTC, SSRBC, as shown on Project Drawings, and/or as directed by the Engineer.

Foundation preparations for concrete structures shall be in accordance with Section 603 of the current KYTC, SSRBC.

All pilot holes for the steel dowels shall be drilled using percussion equipment. Each hole shall be drilled to the specified depth as noted on the attached drawing and/or as directed by the Engineer. All dowels installed in dry conditions shall be grouted using a two-part epoxy resin grout placed in accordance with Manufacturer recommendations and as directed by the Engineer.

Measurement and payment for concrete work shall be in accordance with Section 601 of the current KYTC, SSRBC. However, contrary to Section 601, furnishing and installing steel reinforcement will be considered incidental to the Work.

VIII. Sheet Piling

All sheet piling shall be placed in accordance with the attached drawings. The sheet piling shall be driven to the depth and orientation described in the drawings unless otherwise directed by the engineer.

The sheet piling will be measured for payment by linear feet of driven pile. The specified width of each section of sheet piling for this project is 18 inches as shown in the drawings.

Payment for the sheet piling bid item will be based on the linear feet driven. All other items, tools, labor, and materials involved with placement of the sheet piling will be considered incidental to the Sheet Piling bid item.

IX. Reclamation and Erosion/Sediment Control

Disturbed work areas shall be regraded, smoothed, seeded and mulched as soon as possible upon completion of work. Temporary vegetation (straw/sod) shall be provided by the Contractor until permanent landscaping is in place. The seed mixture shall be Seed Mixture No. 1 in accordance with Section 212 of the current KYTC, SSRBC.

If directed by the Engineer, temporarily seed within two working days of notification by the Engineer. Contrary to Section 213, temporary seeding shall be considered incidental to the pay item "Seeding and Protection".

All equipment tracks/ruts shall be removed and not left to initiate erosion. No sediment control structures shall be placed in the stream.



KYTC Scour Countermeasures Program Package A



Procedures shall be performed as required to control erosion and provide seeding/protection, in accordance with Sections 212 and 213 of the current KYTC, SSRBC.

Silt Fences shall be constructed according to Standard Drawing Nos. RDX-210-02 and RDX-215 and/or as directed by the Engineer.

Silt Traps shall be constructed according to Standard Drawing RDX-220-04 and RDX-225 and/or as directed by the Engineer.

All geotextile fabric and/or netting shall be placed at bridge abutments according to Standard Drawing RRE-002-04 and/or as directed by the Engineer.

Any planting and staking that is required shall be completed according to Standard Drawing RRP-001-04 and/or as directed by the Engineer.

All work associated with the installation, maintenance and removal of erosion/sediment control devices shall be considered incidental to the pay item "Site Preparation".

X. Special Considerations

A. Utilities

The Contractor is required to call 1-800-752-6007 toll free a minimum of two and no more than ten business days prior to excavation for information on the location of existing underground utilities which subscribe to the Kentucky Underground Protection, Inc. service. The Contractor shall coordinate excavation with all utility owners, including those who do not subscribe to Kentucky Underground Protection, Inc.

Any site utilities mentioned in the Executive Summary section were noted during a cursory review of the site by the field inspection team. This review was not a detailed utility search and is offered for informational purposes only.

It is the Contractor's responsibility to locate and identify utilities within the project limits. The Contractor shall make a concerted effort to prevent any disruption of utility services, and if an unintended disruption occurs, the Contractor shall, at their own expense, coordinate the safe and immediate restoration of the service. If disruption of any utility service is unavoidable, it shall be the responsibility of the Contractor to notify affected property owners 48 hours in advance. The Contractor shall also make every effort to restore said services before quitting work for the day. In the event this cannot be done, the Contractor shall provide temporary service to the property owners until permanent service can be restored.

B. Preservation



Stantec

KYTC Scour Countermeasures Program Package A



Avoid disturbance to any mature trees and riparian vegetation present on site. Any private property that is disturbed or damaged shall be restored to its original condition or replaced.

SPECIAL NOTE FOR PROTECTING AND BATS

If a roosting bat is encountered, cease operations in that area, contact the KYTC-DEA biologist and do not disturb the site until they can evaluate the area and make recommendations.

KYTC personnel have evaluated each construction site for environmental impact. The following project locations have been approved for construction with 'No Effect' on the Indiana Bat habitat. This 'No Effect' is contingent upon no trees being removed while gaining access to the construction site or while accomplishing the proposed scour countermeasures:

- Ballard County - 004B00023N
- Calloway County - 018B00058N
- Carlisle County - 020B00041N
- Graves County - 042B00084N
- Graves County - 042B00133N
- Graves County - 042B00196N
- McCracken County - 073B00078N
- Marshall County - 079B00017N
- Marshall County - 079B00018N
- Trigg County - 111B00032N

The following project locations may require the removal of trees to access the site or accomplish the scour countermeasure construction. KYTC will place funds in the Indiana Bat Conservation Fund (ICBF) to mitigate the loss of Indiana Bat habitat. The contractor will be limited to tree removal as shown in the attached site maps.

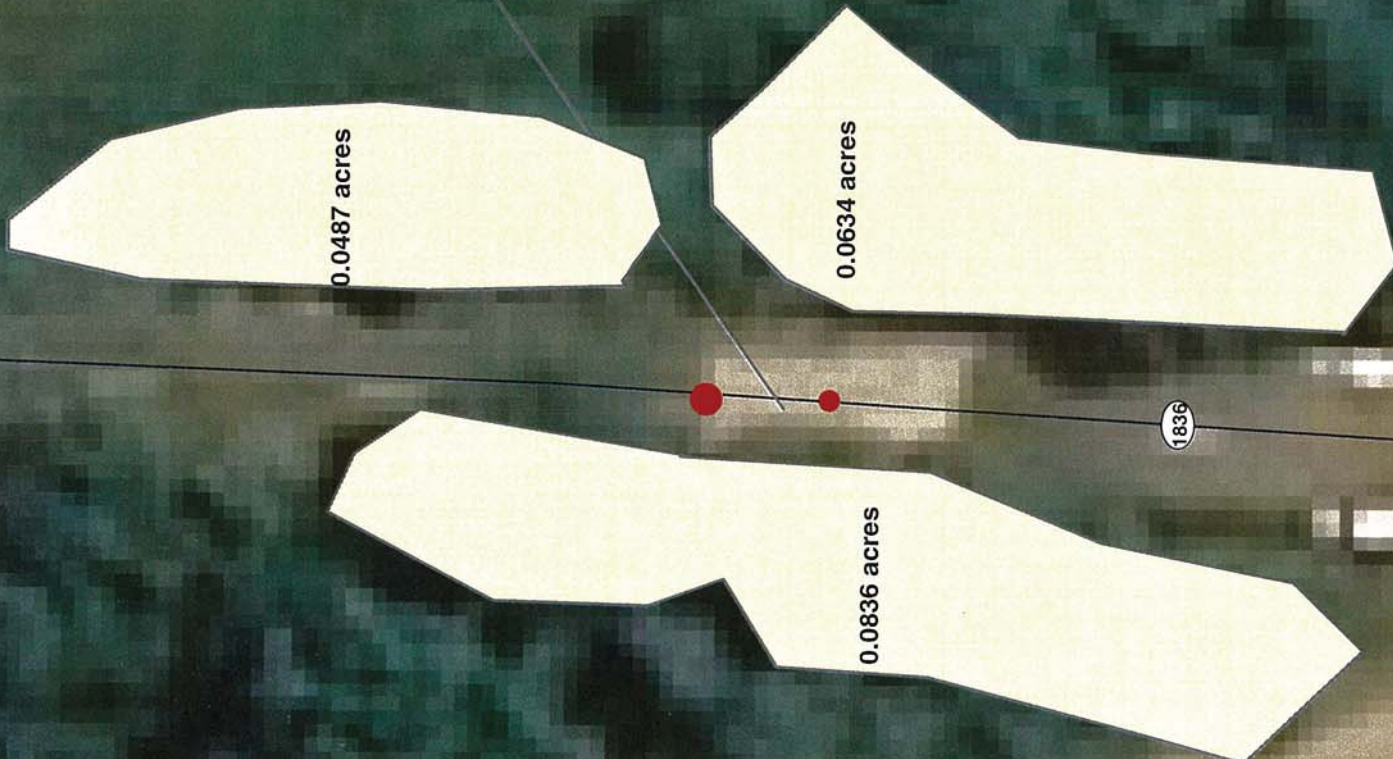
- Calloway County - 018B00015N
- Calloway County - 018B00066N
- Calloway County - 018B00086N
- Calloway County - 018B00099N

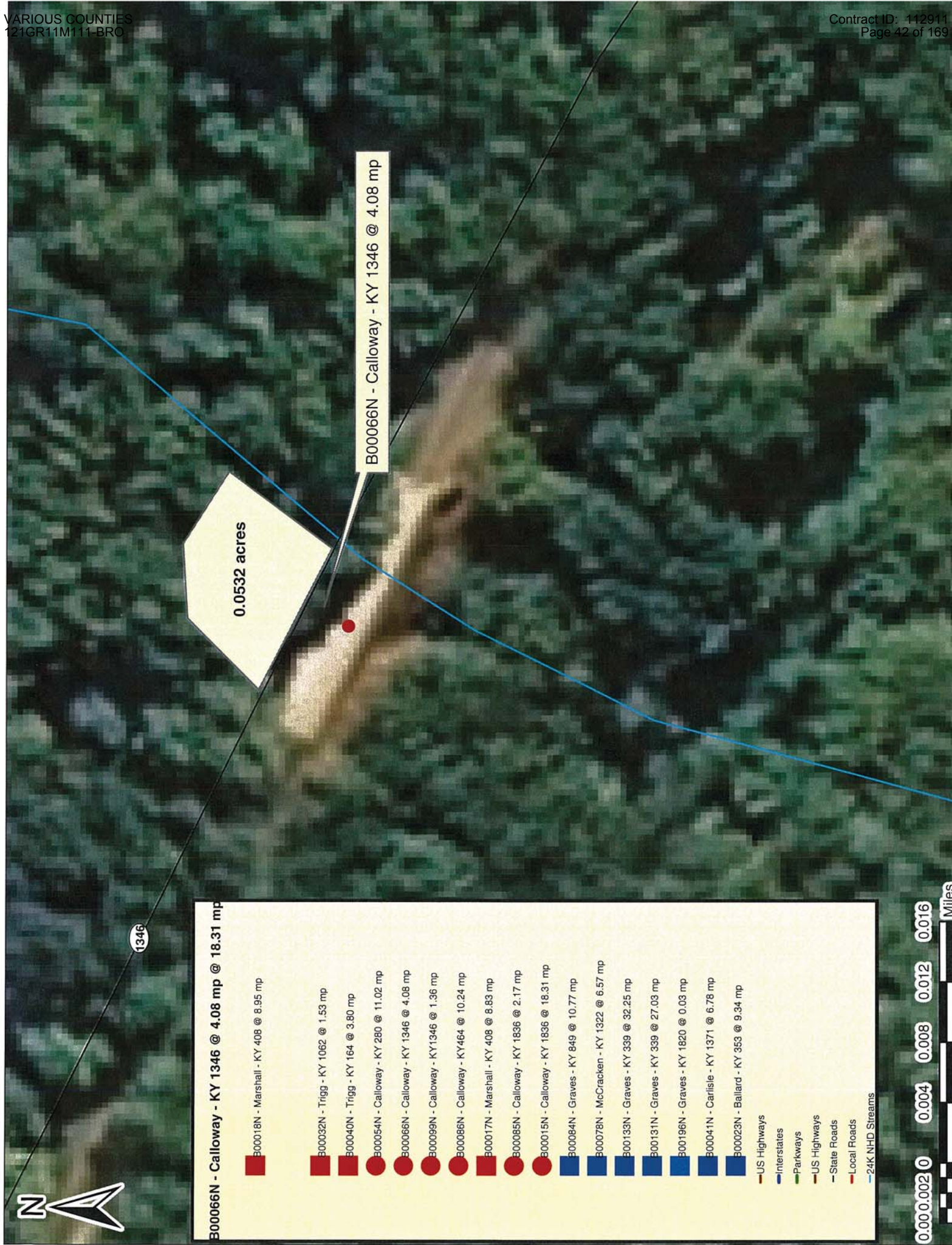


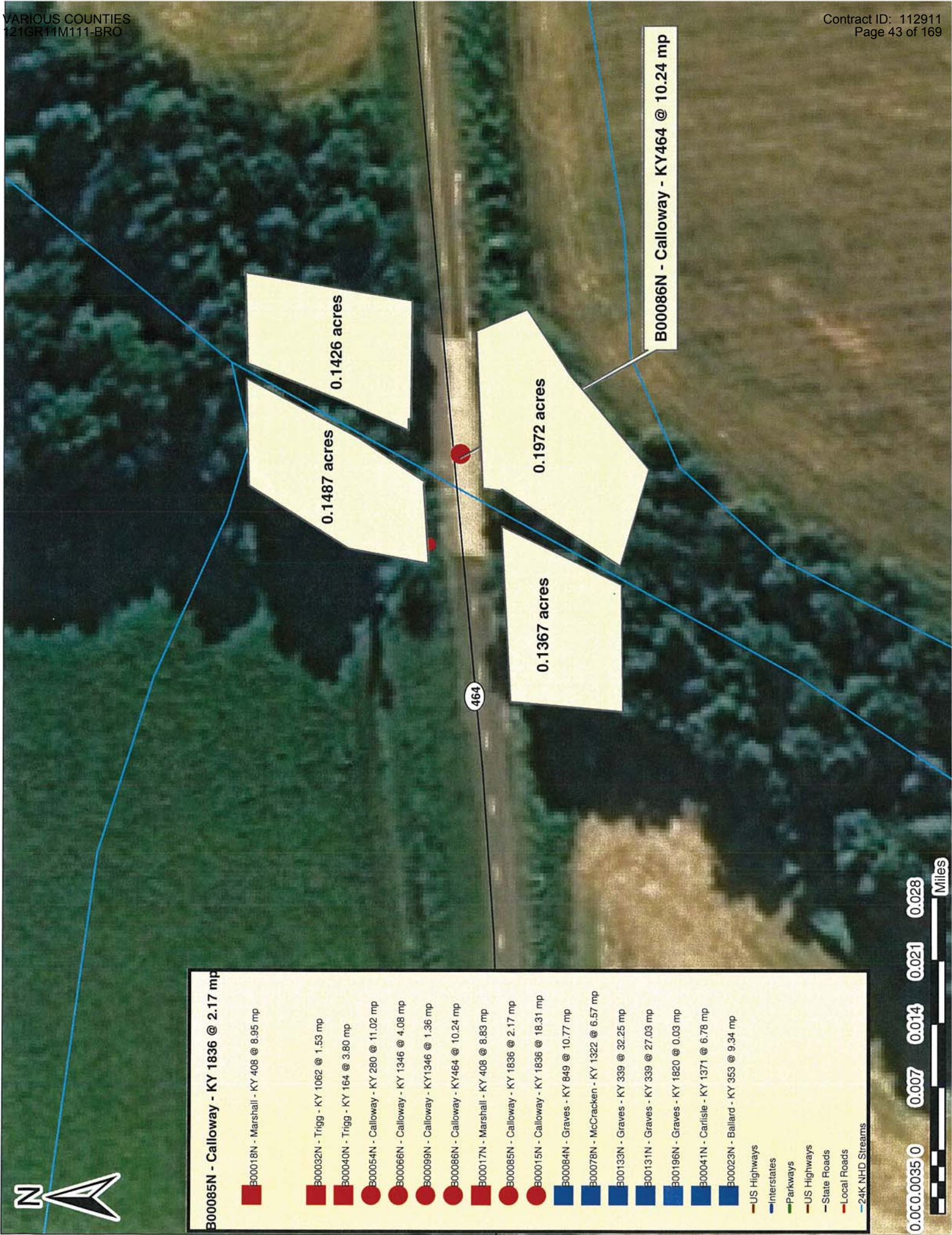
BCF Map for B00015N - Calloway - KY 1836 @ 18.31 mp

- B00018N - Marshall - KY 408 @ 8.95 mp
- B00032N - Trigg - KY 1062 @ 1.53 mp
- B00040N - Trigg - KY 164 @ 3.80 mp
- B00054N - Calloway - KY 280 @ 11.02 mp
- B00066N - Calloway - KY 1346 @ 4.08 mp
- B00099N - Calloway - KY 1346 @ 1.36 mp
- B00086N - Calloway - KY 464 @ 10.24 mp
- B00017N - Marshall - KY 408 @ 8.83 mp
- B00085N - Calloway - KY 1836 @ 2.17 mp
- B00015N - Calloway - KY 1836 @ 18.31 mp
- B00084N - Graves - KY 849 @ 10.77 mp
- B00078N - McCracken - KY 1322 @ 6.57 mp
- B00133N - Graves - KY 339 @ 32.25 mp
- B00131N - Graves - KY 339 @ 27.03 mp
- B00196N - Graves - KY 1820 @ 0.03 mp
- B00041N - Carlisle - KY 1371 @ 6.78 mp
- B00023N - Ballard - KY 353 @ 9.34 mp

- US Highways
- Interstates
- Parkways
- US Highways
- State Roads
- Local Roads









B00085N - Calloway - KY 1836 @ 2.17 mp

- B00018N - Marshall - KY 408 @ 8.95 mp
- B00032N - Trigg - KY 1062 @ 1.53 mp
- B00040N - Trigg - KY 164 @ 3.80 mp
- B00054N - Calloway - KY 280 @ 11.02 mp
- B00066N - Calloway - KY 1346 @ 4.08 mp
- B00099N - Calloway - KY 1346 @ 1.36 mp
- B00086N - Calloway - KY 464 @ 10.24 mp
- B00017N - Marshall - KY 408 @ 8.83 mp
- B00085N - Calloway - KY 1836 @ 2.17 mp
- B00015N - Calloway - KY 1836 @ 18.31 mp
- B00084N - Graves - KY 849 @ 10.77 mp
- B00078N - McCracken - KY 1322 @ 6.57 mp
- B00133N - Graves - KY 339 @ 32.25 mp
- B00131N - Graves - KY 339 @ 27.03 mp
- B00196N - Graves - KY 1820 @ 0.03 mp
- B00041N - Carlisle - KY 1371 @ 6.78 mp
- B00023N - Ballard - KY 353 @ 9.34 mp

- US Highways
- Interstates
- Parkways
- US Highways
- State Roads
- Local Roads
- 24K NHD Streams

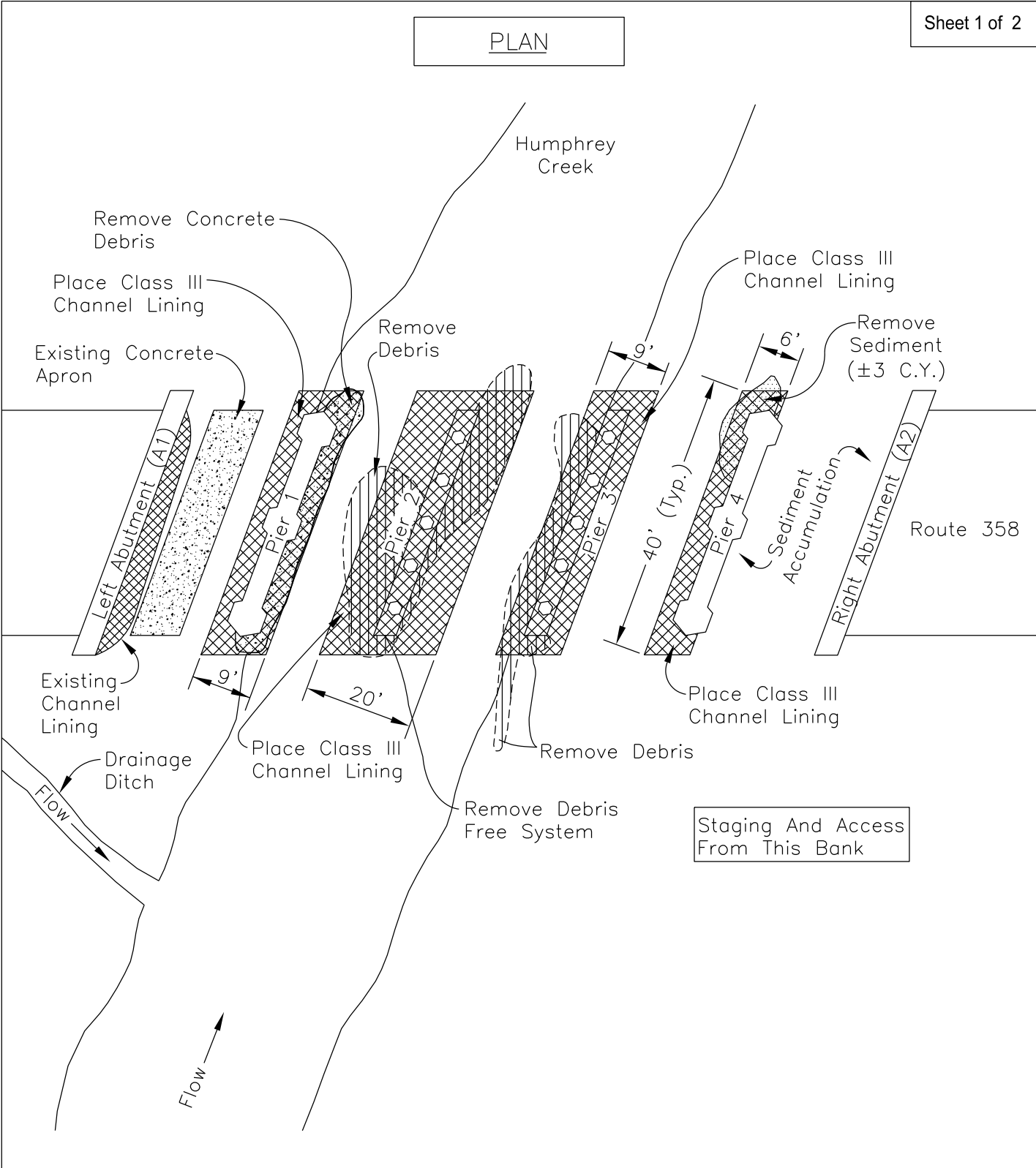
0.1373 acres

B00099N - Calloway - KY 1346 @ 1.36 mp

1346



KYTC Countermeasures Program
District 1 - Ballard County
Bridge No. 004B00023N



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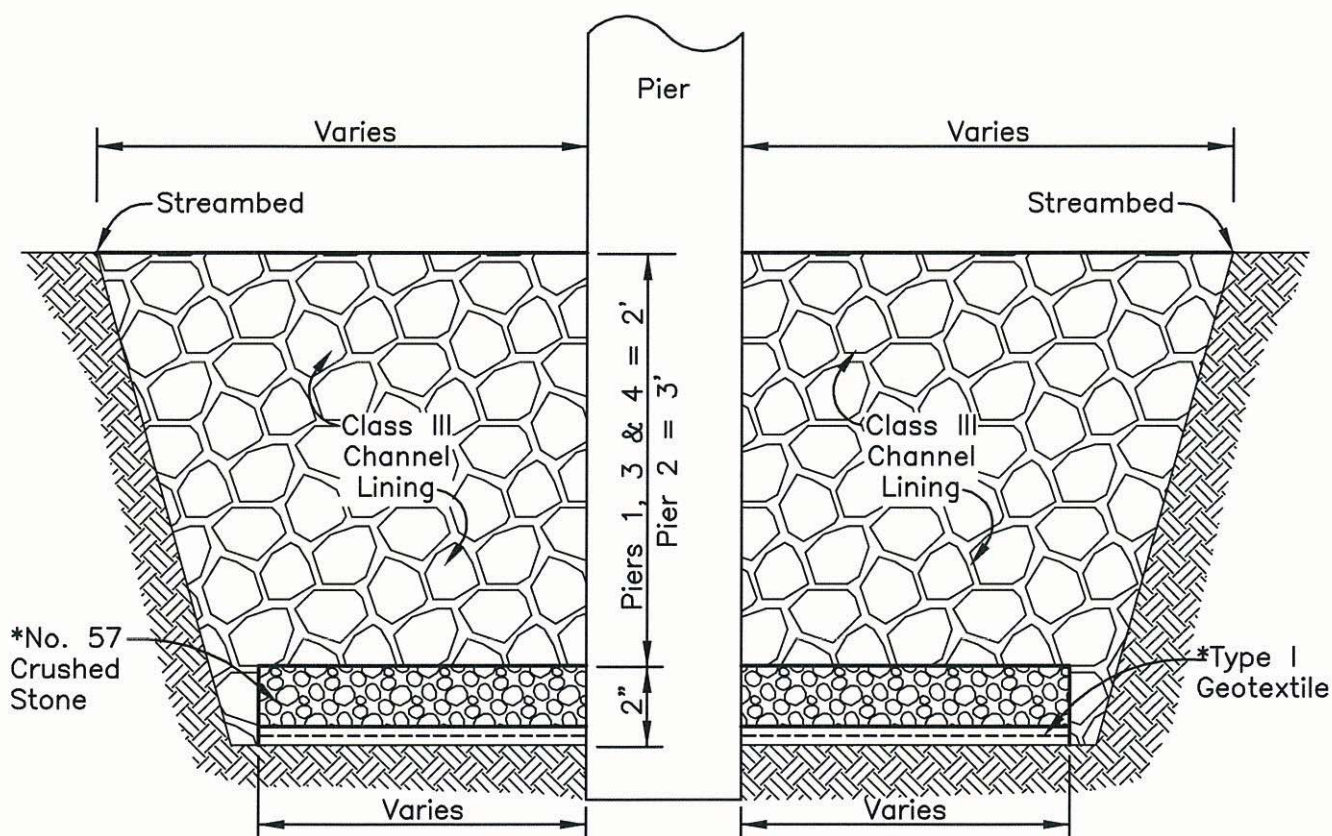
PLAN VIEW
(PROPOSED COUNTERMEASURES)



KYTC Countermeasures Program
District 1 - Ballard County
Bridge No. 004B00023N



Sheet 2 of 2



Note:

Type I Geotextile and No. 57 Crushed Stone shall extend from bridge element to 2/3 distance of channel lining limits.

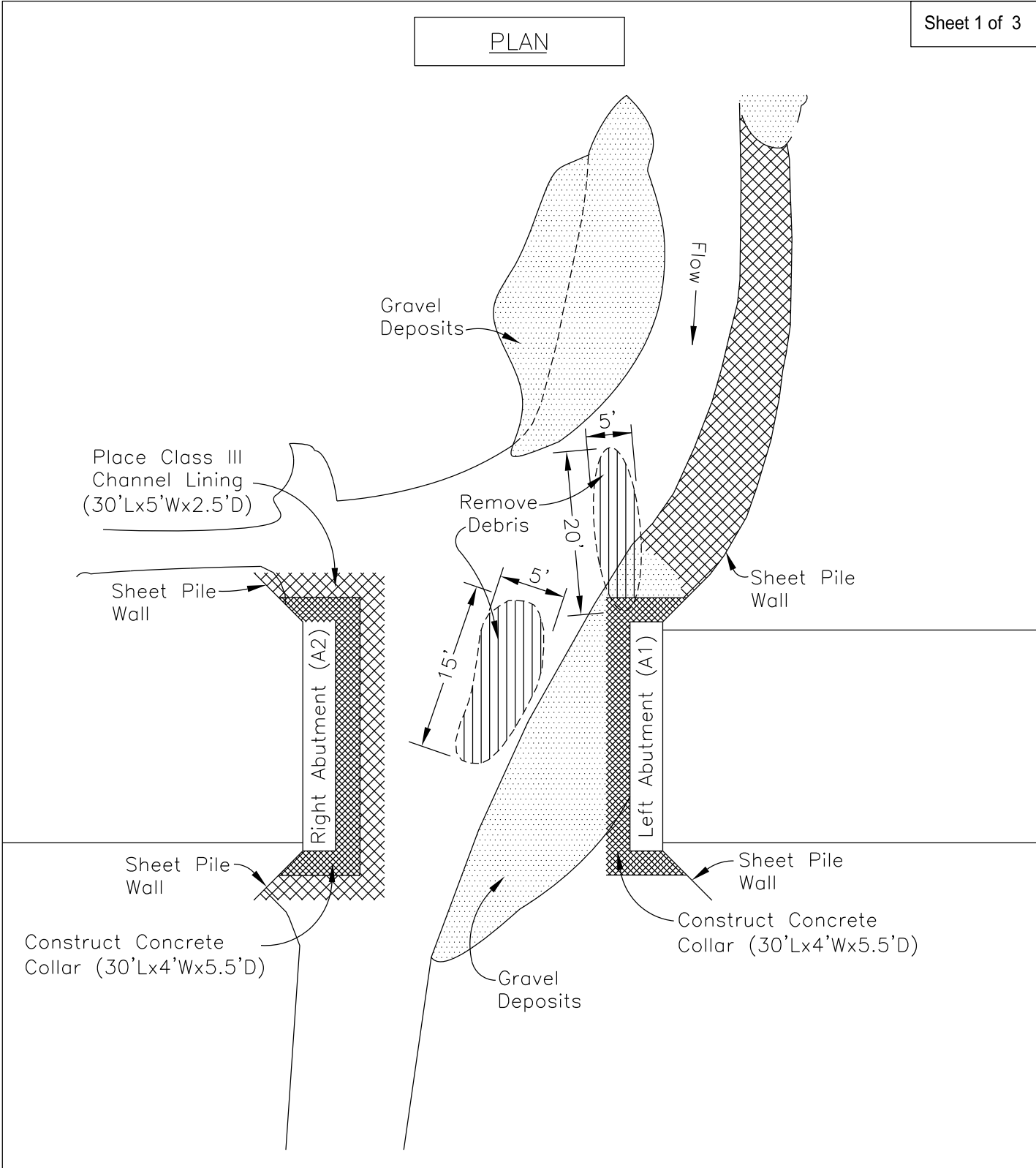
*No. 57 Stone and Type I Geotextile shall be added/removed by the Engineer depending on site conditions

Not to Scale

SECTION VIEW
CHANNEL LINING AT PIER

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KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00015N



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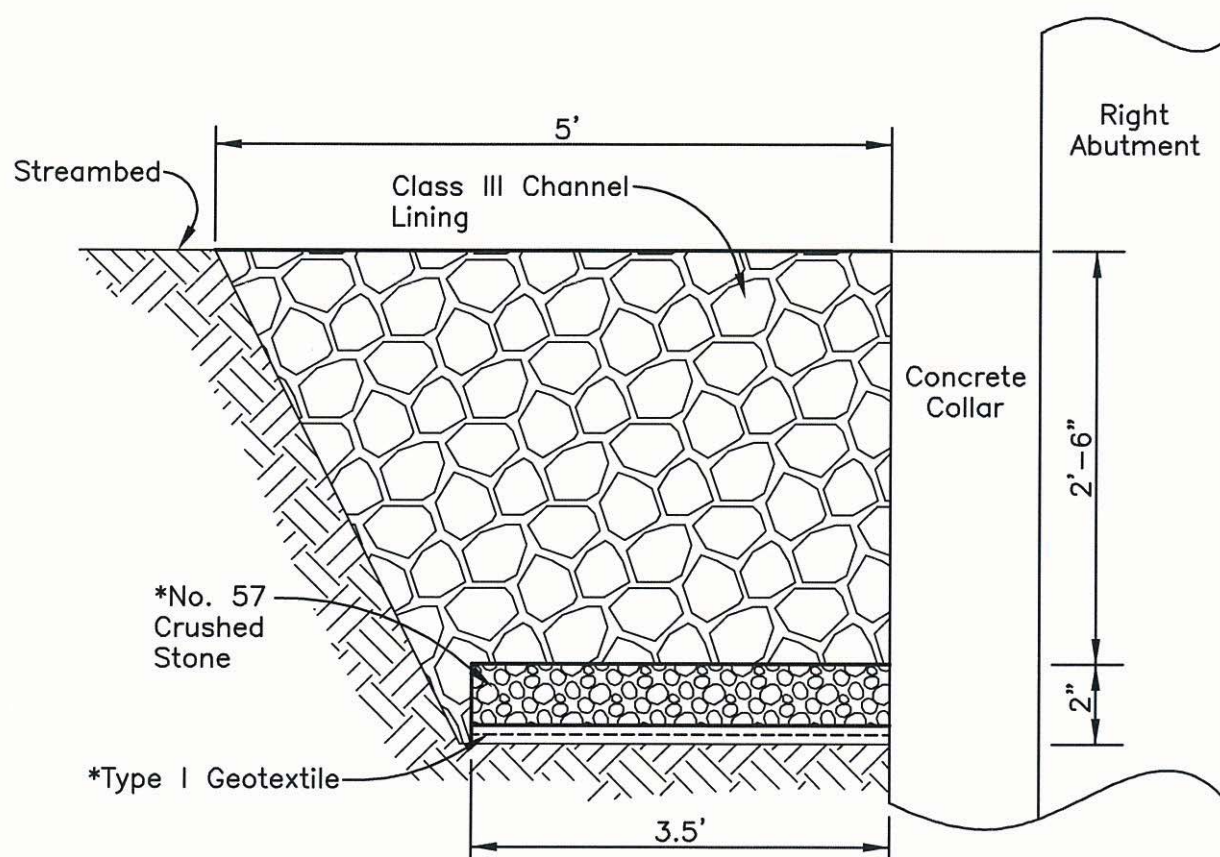
PLAN VIEW
(PROPOSED COUNTERMEASURES)



KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00015N



Sheet 2 of 3



Note:

Type I Geotextile and No. 57 Crushed Stone shall extend from bridge element to 2/3 distance of channel lining limits.

* No. 57 Stone and Type I Geotextile shall be added/removed as directed by the Engineer depending on site conditions.

Not to Scale

SECTION VIEW
CHANNEL LINING
AT AN ABUTMENT

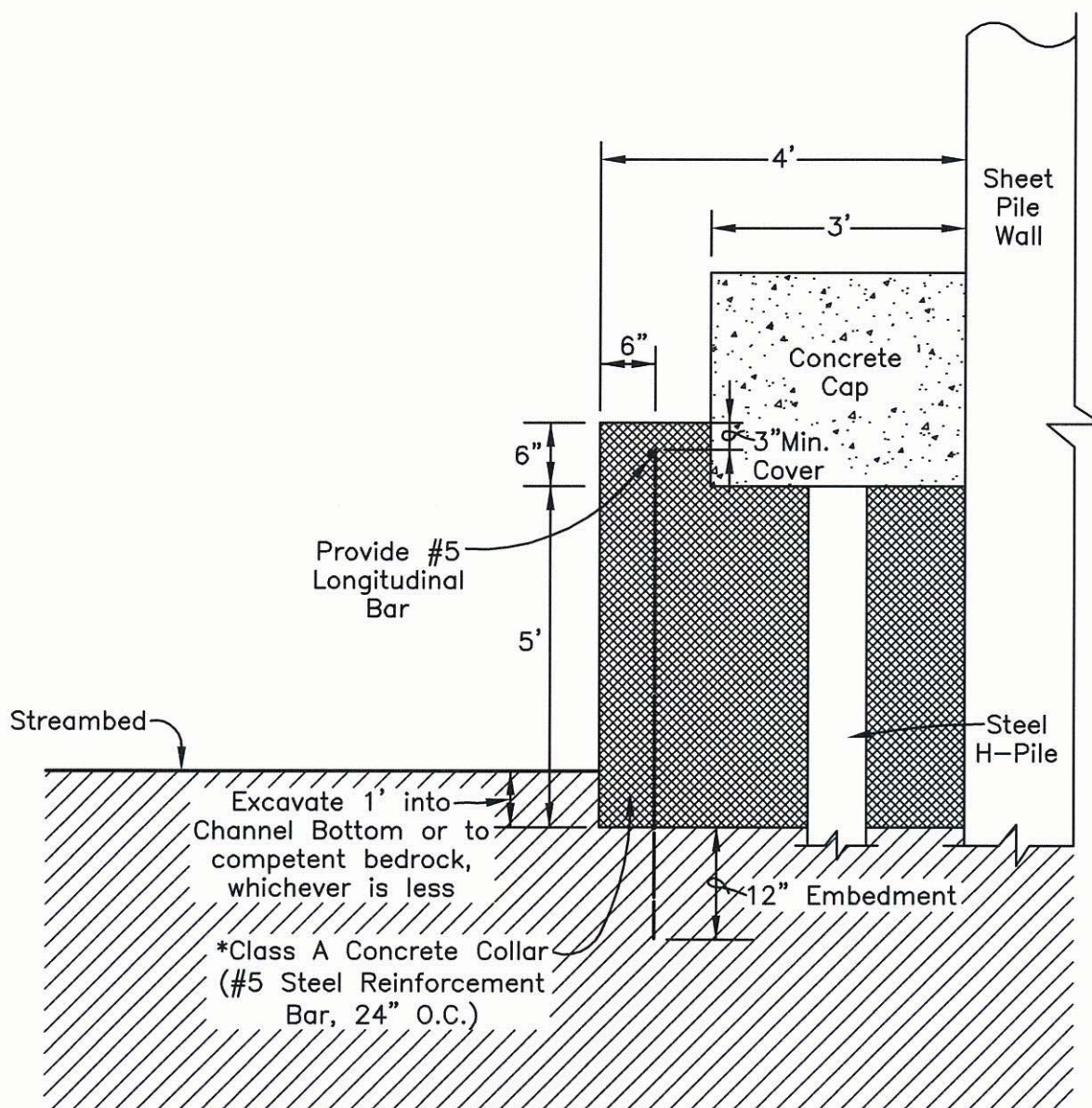
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KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00015N



Sheet 3 of 3



Note:

If Bedrock is encountered, #5 reinforcement bar shall be dowelled a minimum of 12 inches into competent bedrock.

Not to Scale

SECTION VIEW
CONCRETE COLLAR
AT ABUTMENT

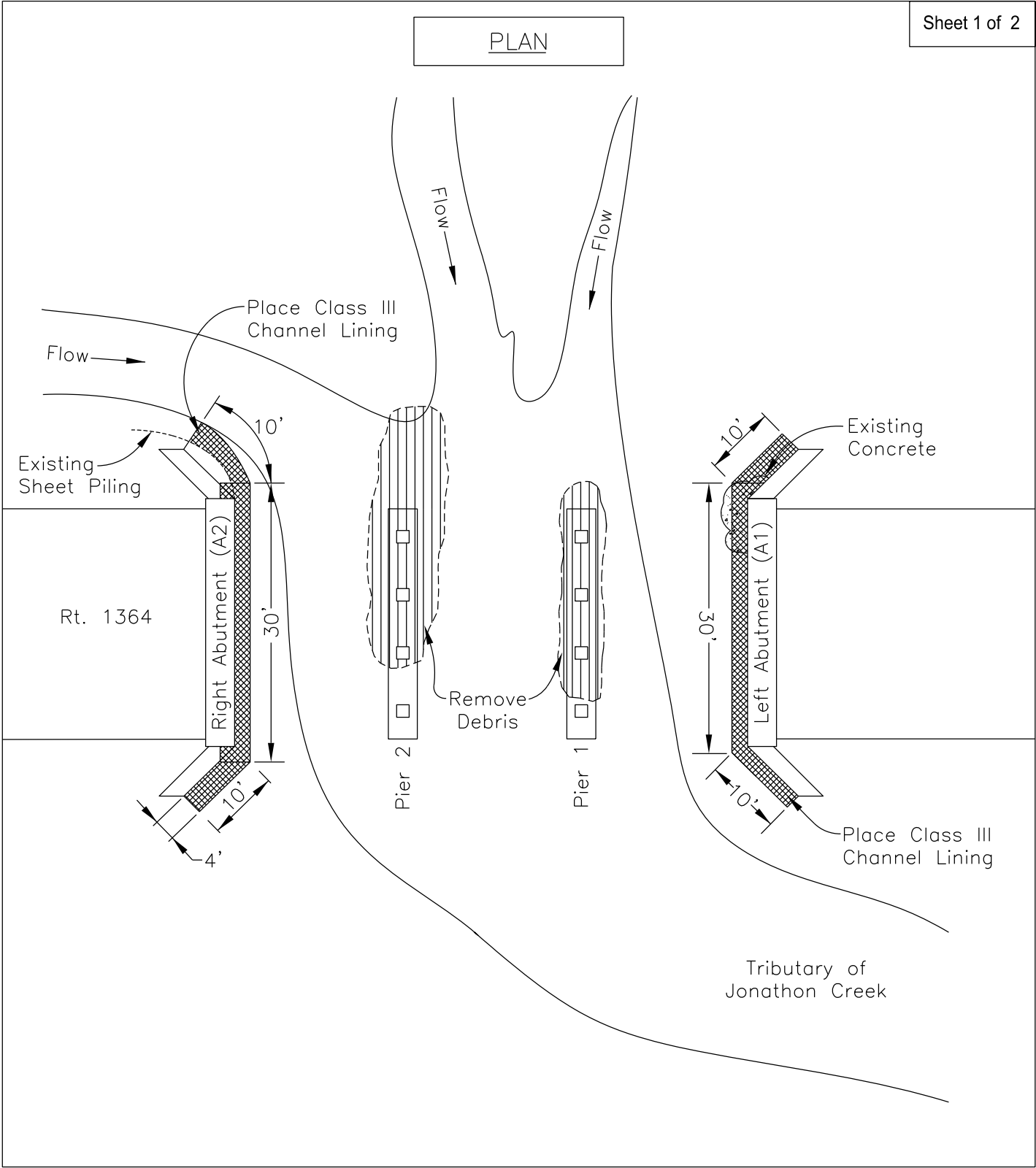
KYTC Countermeasures Program

District 1 - Calloway County

Bridge No. 018B00066N

Sheet 1 of 2

PLAN



Not to Scale

PLAN VIEW
(PROPOSED COUNTERMEASURES)

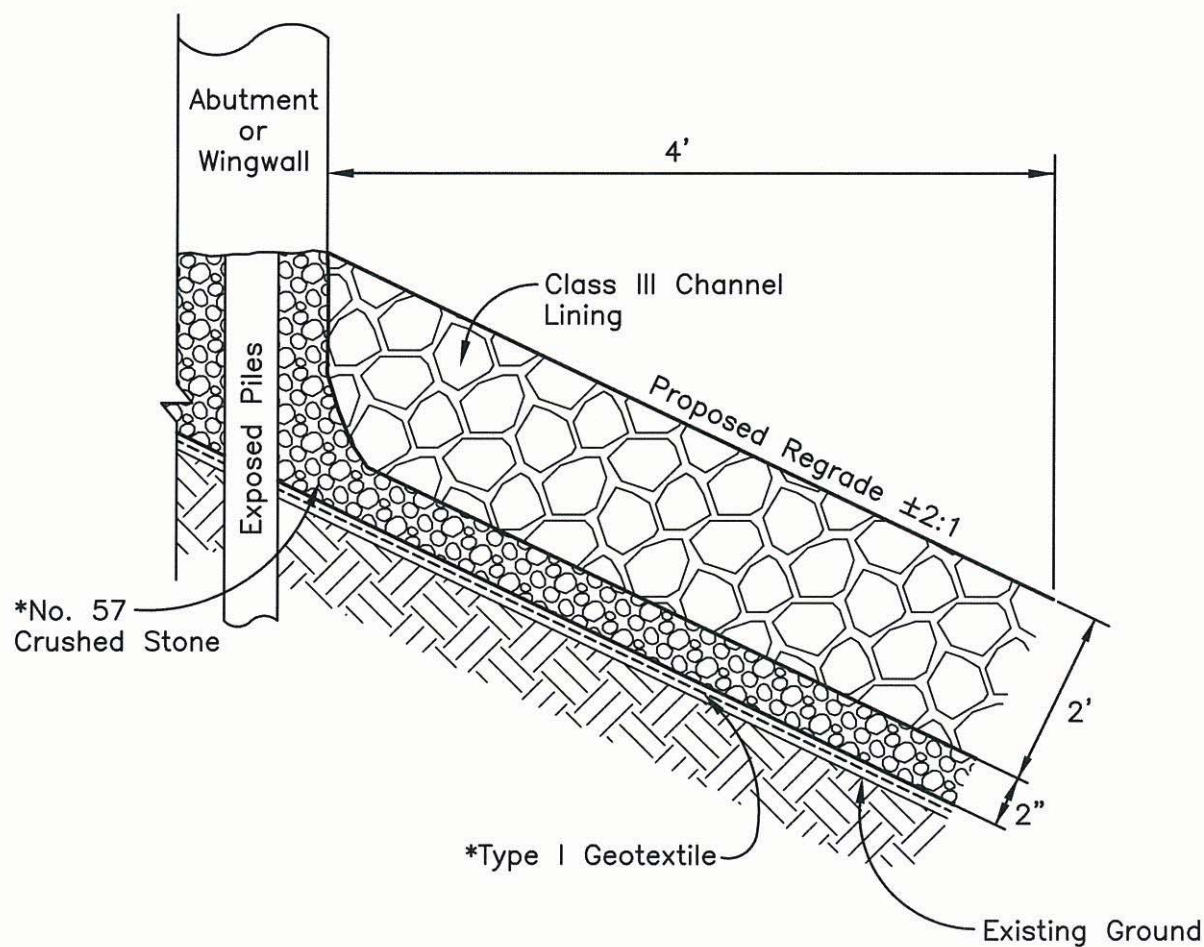


KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00066N



PLAN

Sheet 2 of 2



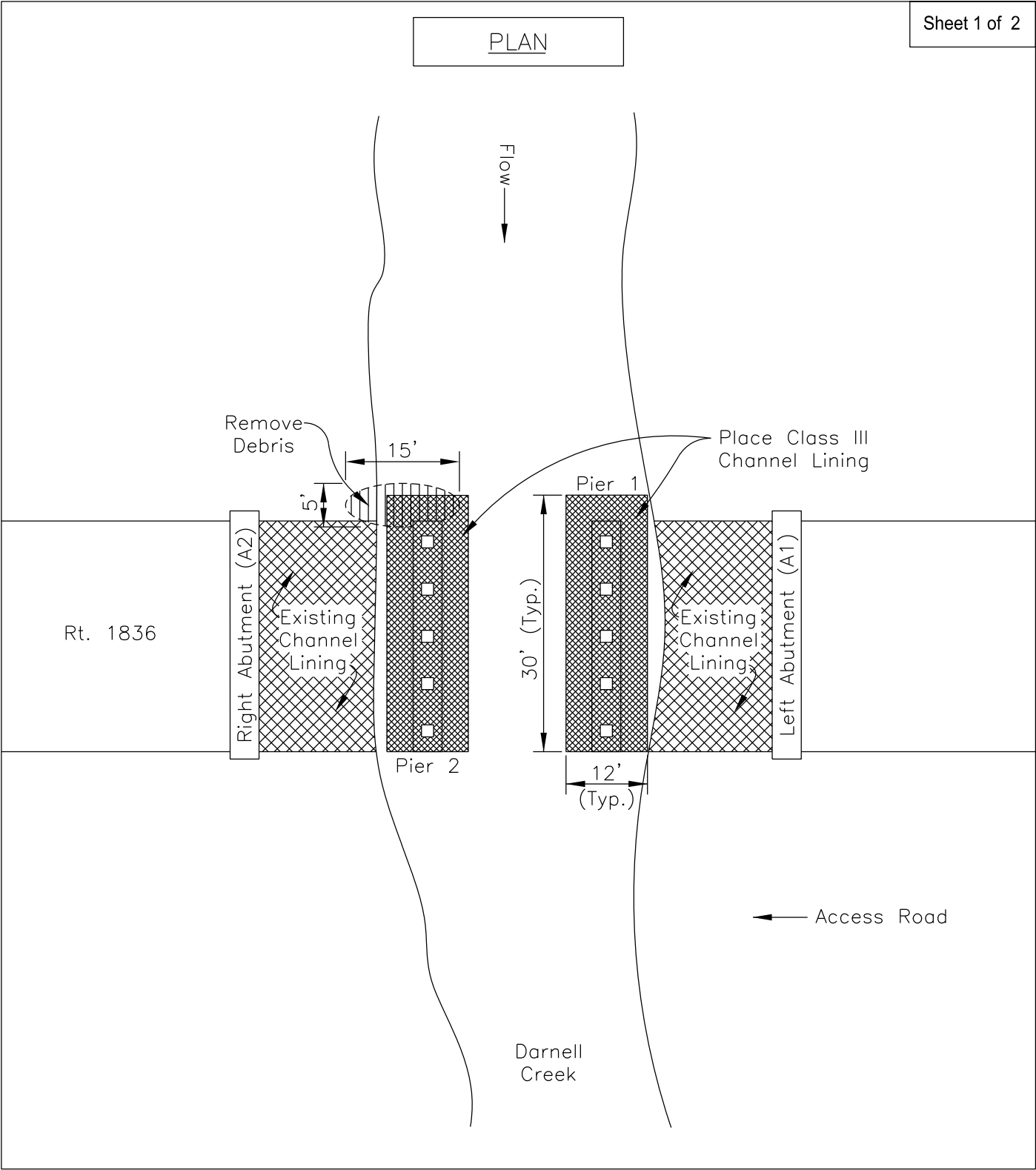
*No. 57 Stone and Type I Geotextile
shall be added/removed by the
Engineer depending on site conditions

Not to Scale

SECTION VIEW
CHANNEL LINING AT ABUTMENT
OR WINGWALL

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KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00085N

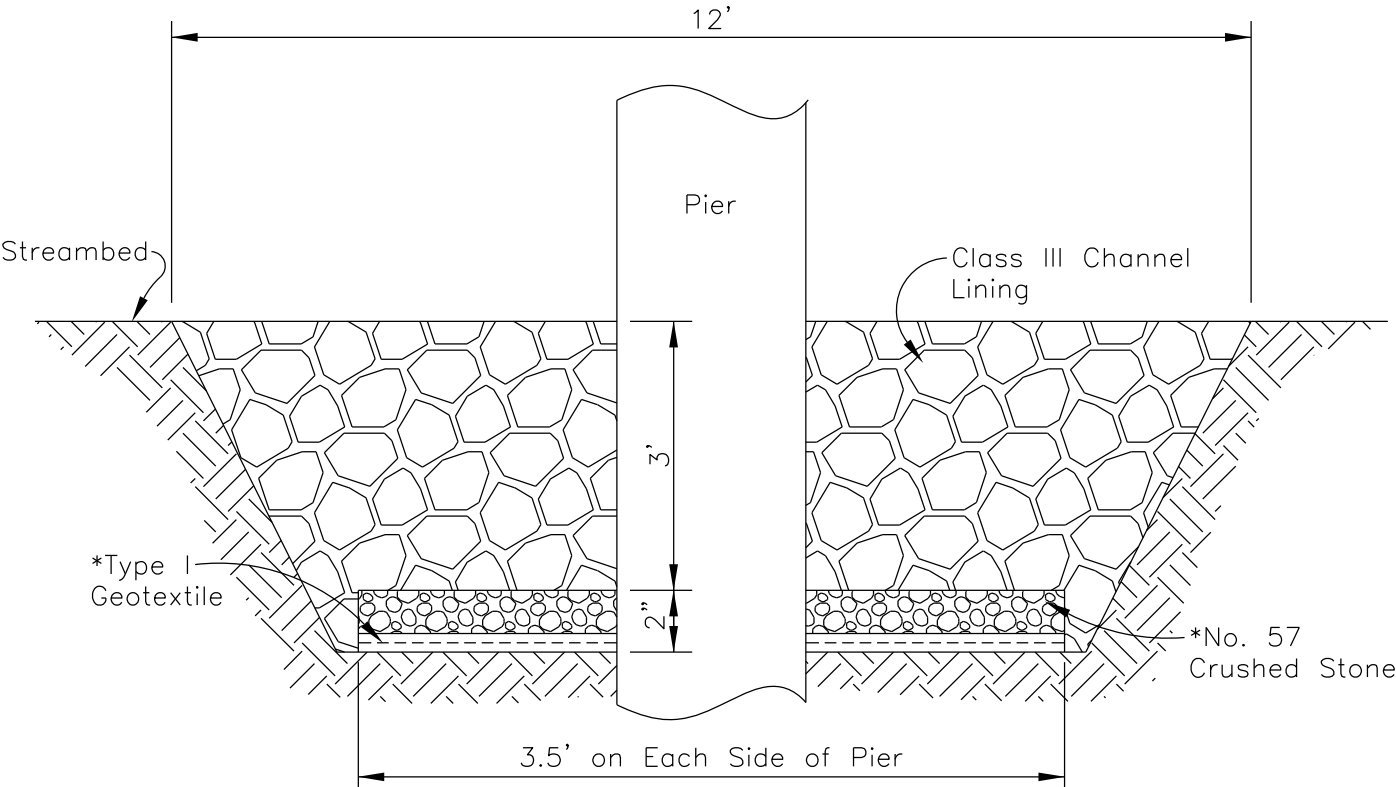


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PLAN VIEW
(PROPOSED COUNTERMEASURES)

KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00085N

Sheet 2 of 2



Note:
Type I Geotextile and No. 57 Crushed Stone shall extend from bridge element to 2/3 distance of channel lining limits.

*No. 57 Stone and Type I Geotextile shall be added/removed by the Engineer depending on site conditions

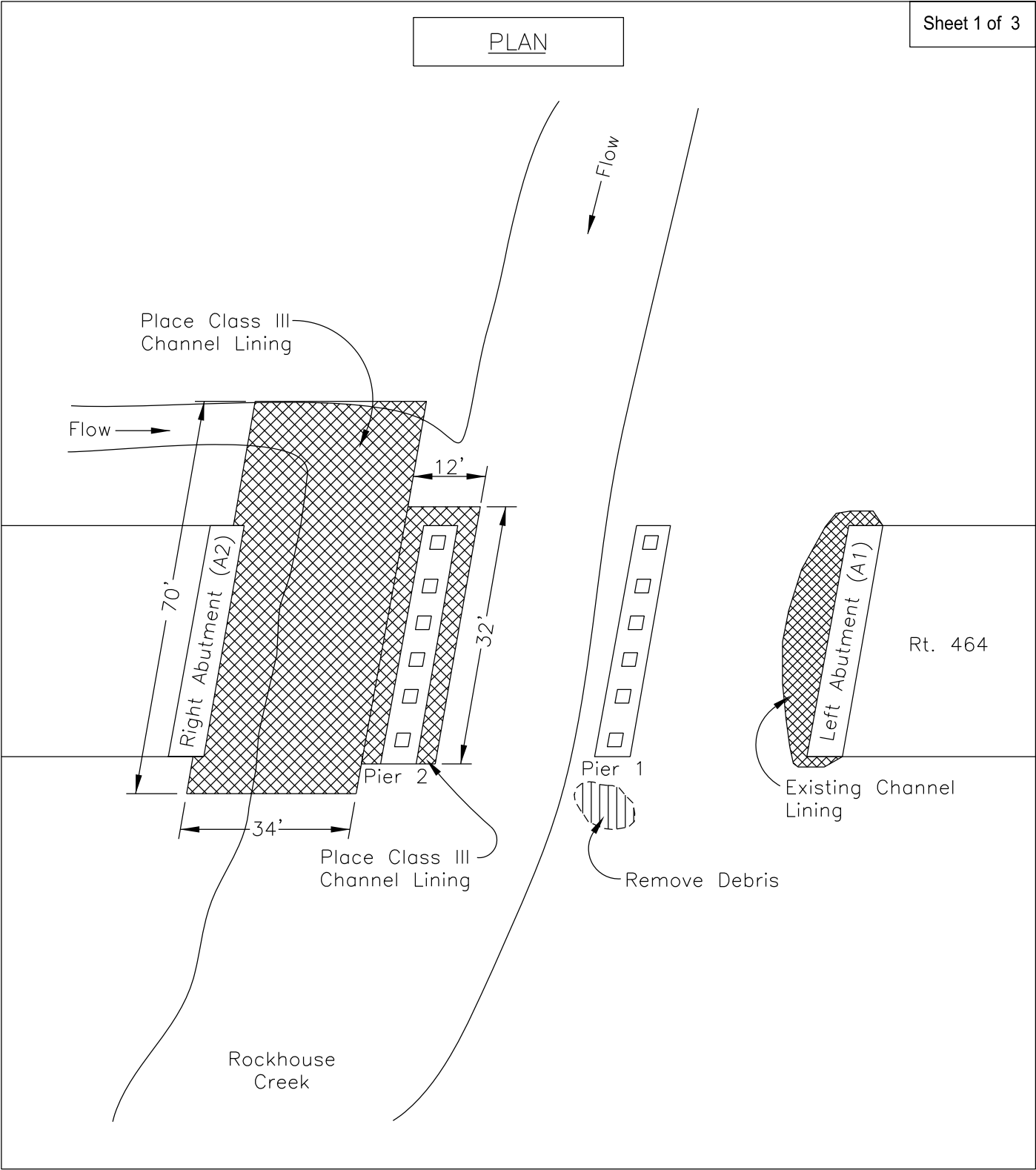
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SECTION VIEW
CHANNEL LINING AROUND PIER

KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00086N

Sheet 1 of 3

PLAN

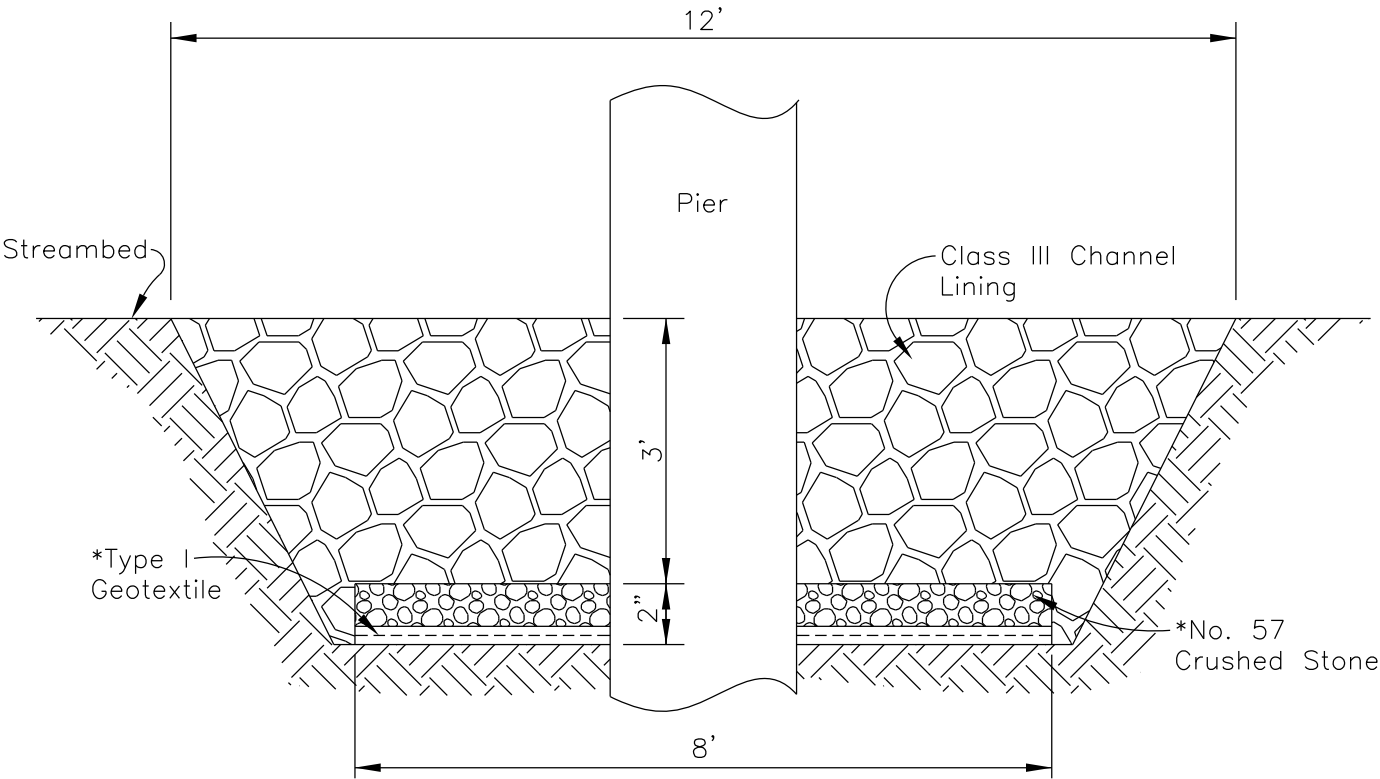


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PLAN VIEW
(PROPOSED COUNTERMEASURES)

KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00086N

Sheet 2 of 3



Note:
Type I Geotextile and No. 57 Crushed Stone shall extend from bridge element to 2/3 distance of channel lining limits.

*No. 57 Stone and Type I Geotextile shall be added/removed by the Engineer depending on site conditions

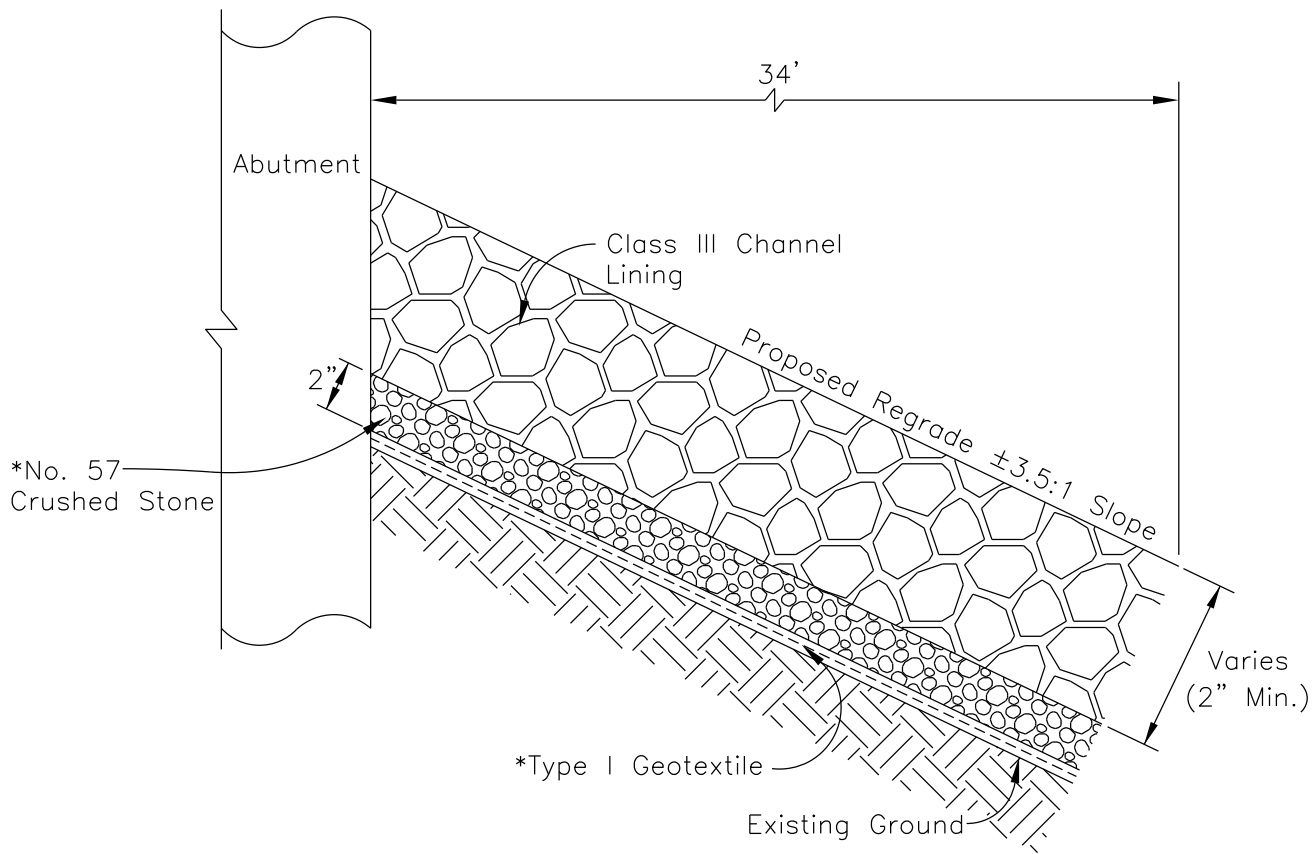
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SECTION VIEW
CHANNEL LINING AROUND PIER

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KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00086N

Sheet 3 of 3



*No. 57 Stone and Type I Geotextile shall be added/removed by the Engineer depending on site conditions

Not to Scale

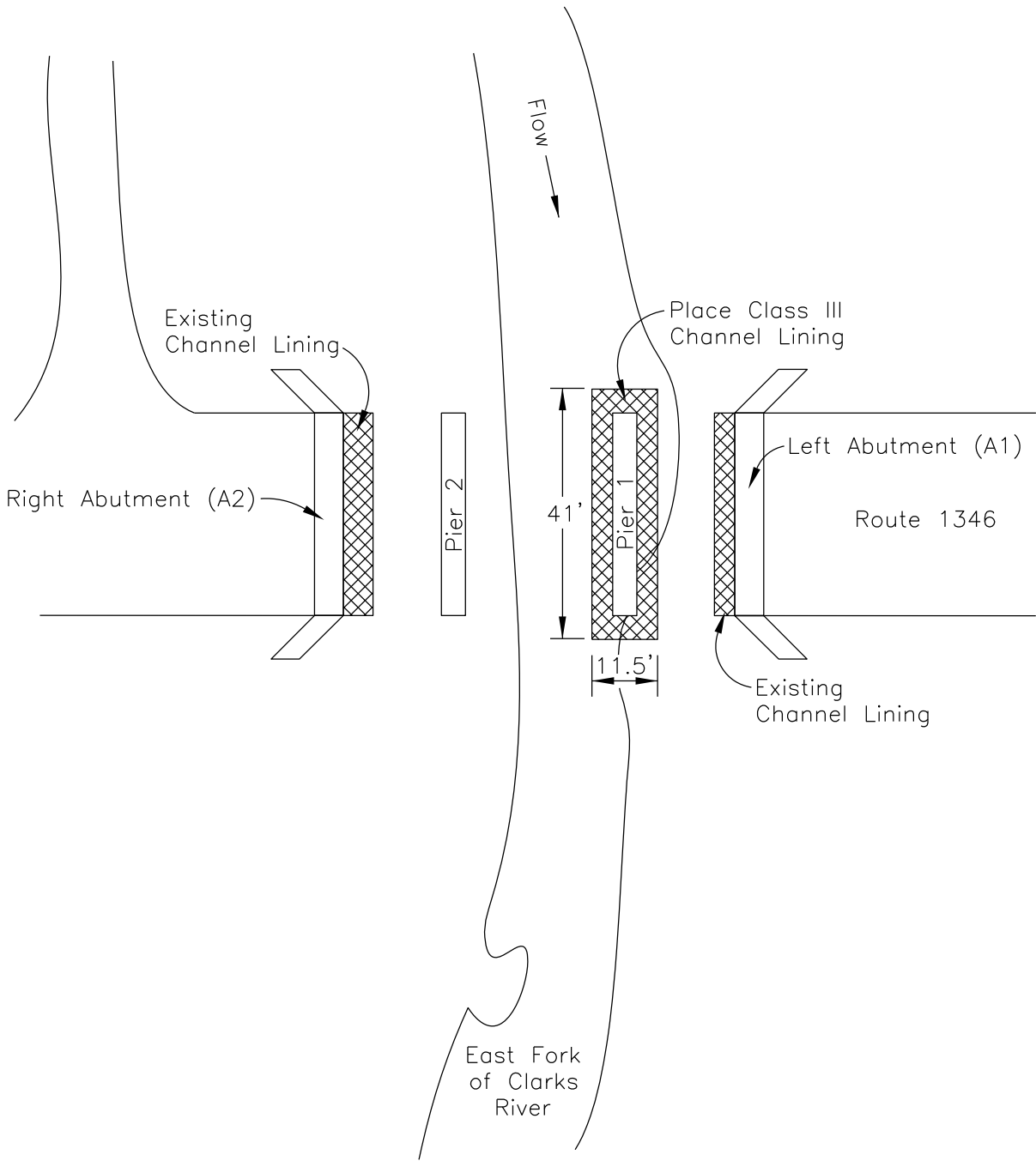
SECTION VIEW
CHANNEL LINING AT ABUTMENT

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KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00099N

Sheet 1 of 2

PLAN



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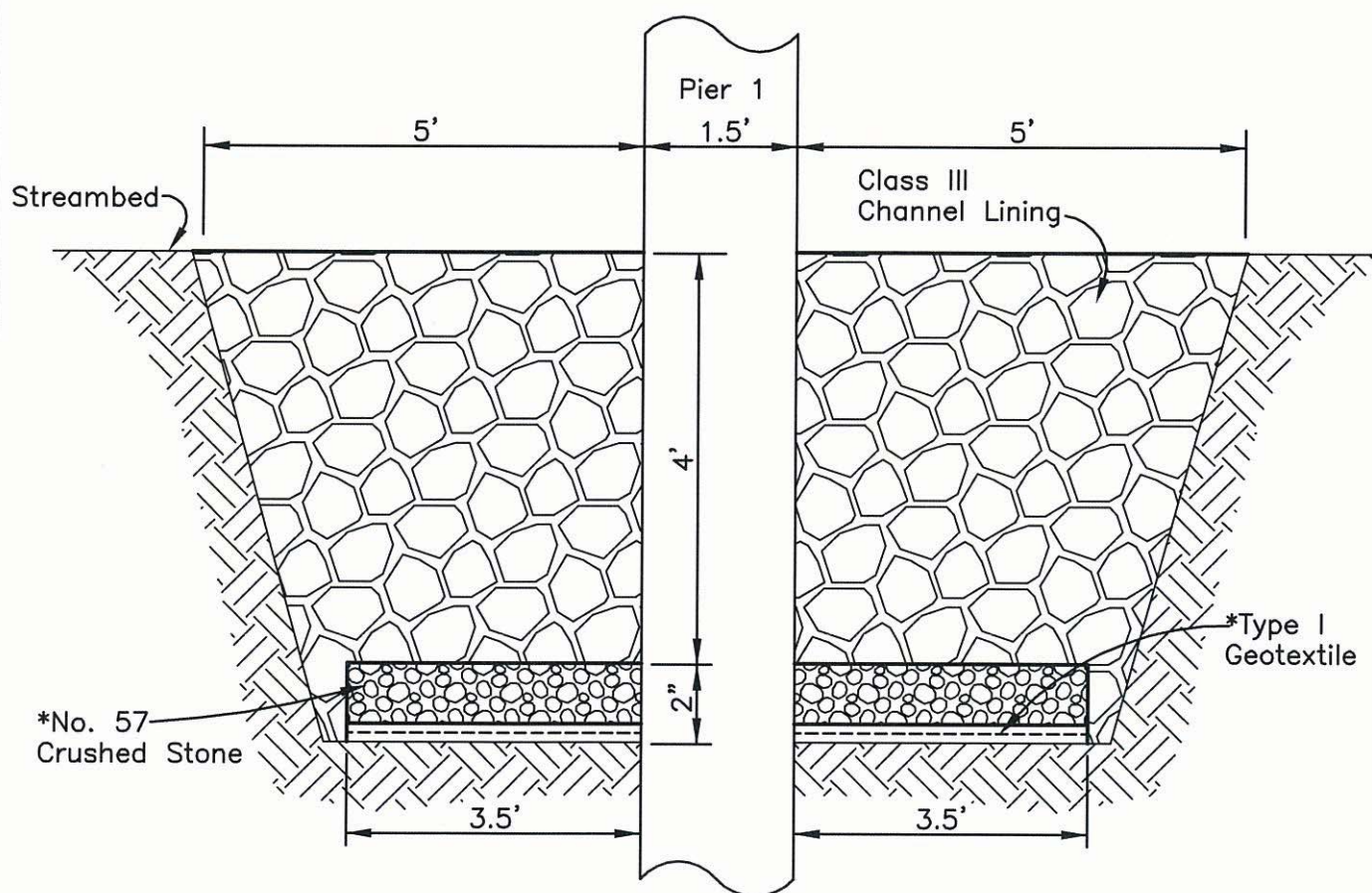
PLAN VIEW
(PROPOSED COUNTERMEASURES)



KYTC Countermeasures Program
District 1 - Calloway County
Bridge No. 018B00099N



Sheet 2 of 2



Note:

1. Type I Geotextile and No. 57 Crushed Stone shall extend from bridge element to 2/3 distance of channel lining limits.
2. If Steel Piles are exposed, Pile Cap shall be extended to 1 foot below existing streambed elevation.

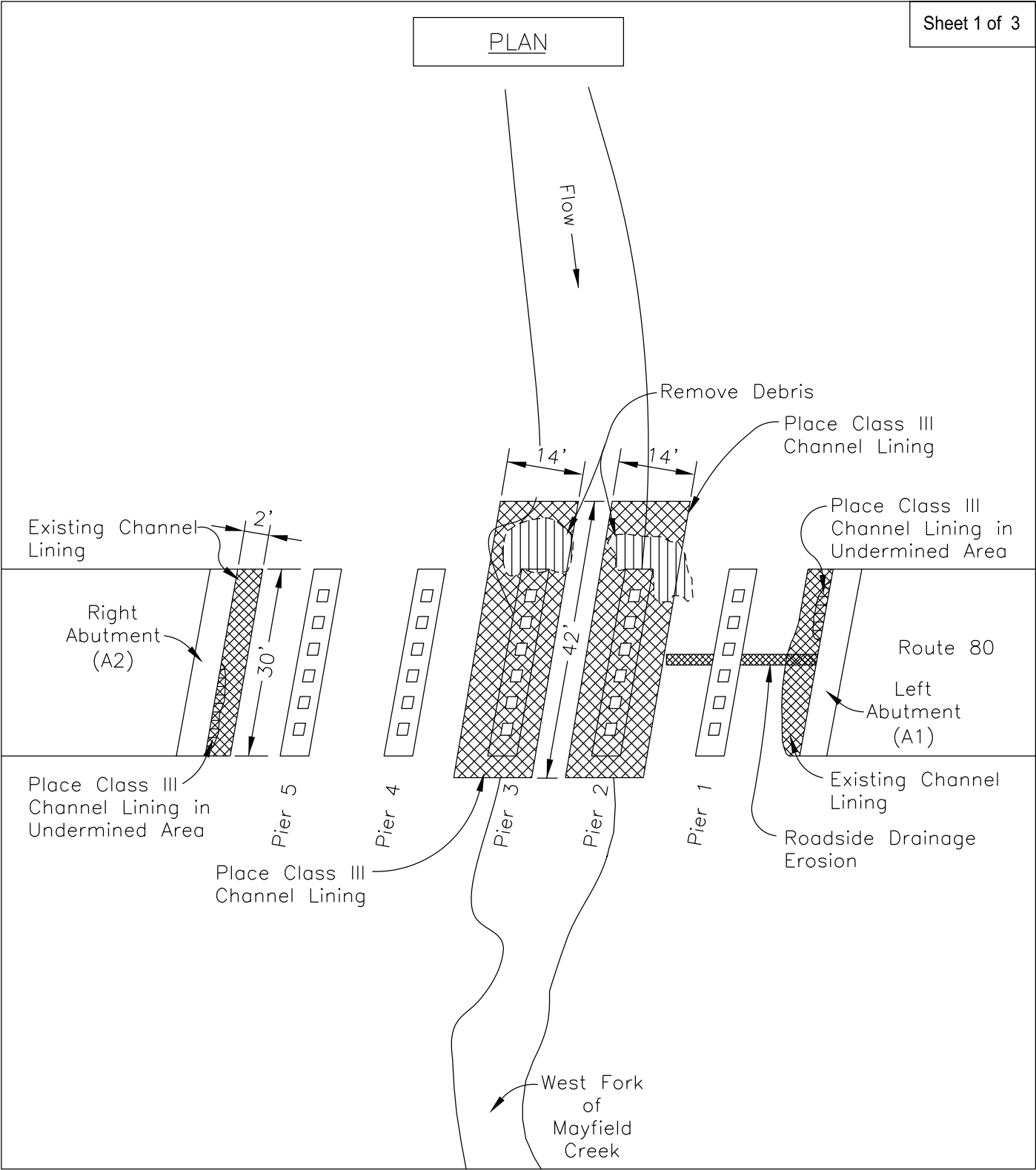
* No. 57 Stone and Type I Geotextile shall be added/removed as directed by the Engineer depending on site conditions.

Not to Scale

SECTION VIEW
CHANNEL LINING AROUND PIER

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KYTC Countermeasures Program
District 1 - Carlisle County
Bridge No. 020B00041N

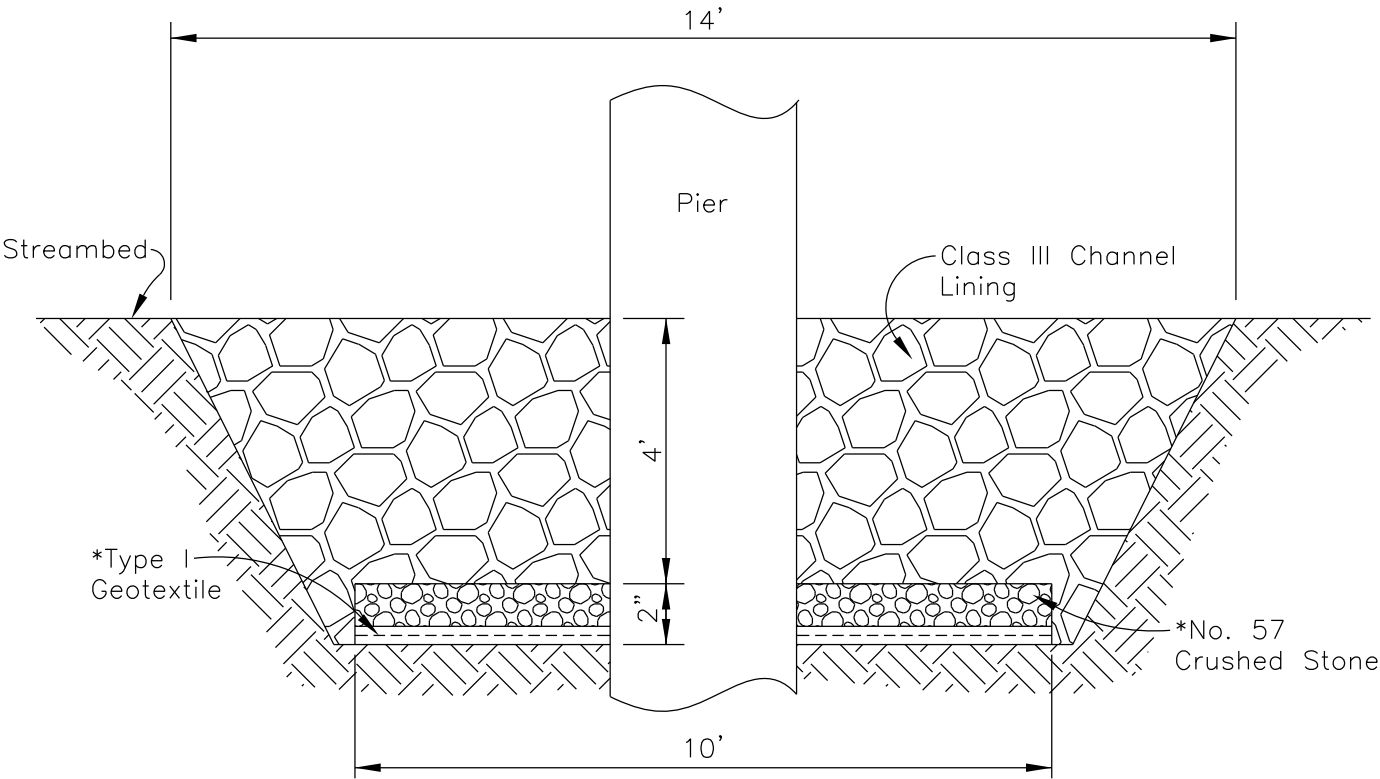


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PLAN VIEW
(PROPOSED COUNTERMEASURES)

KYTC Countermeasures Program
District 1 - Carlisle County
Bridge No. 020B00041N

Sheet 2 of 3



Note:
Type I Geotextile and No. 57 Crushed Stone
shall extend from bridge element to 2/3
distance of channel lining limits.

*No. 57 Stone and Type I Geotextile
shall be added/removed by the
Engineer depending on site conditions

Not to Scale

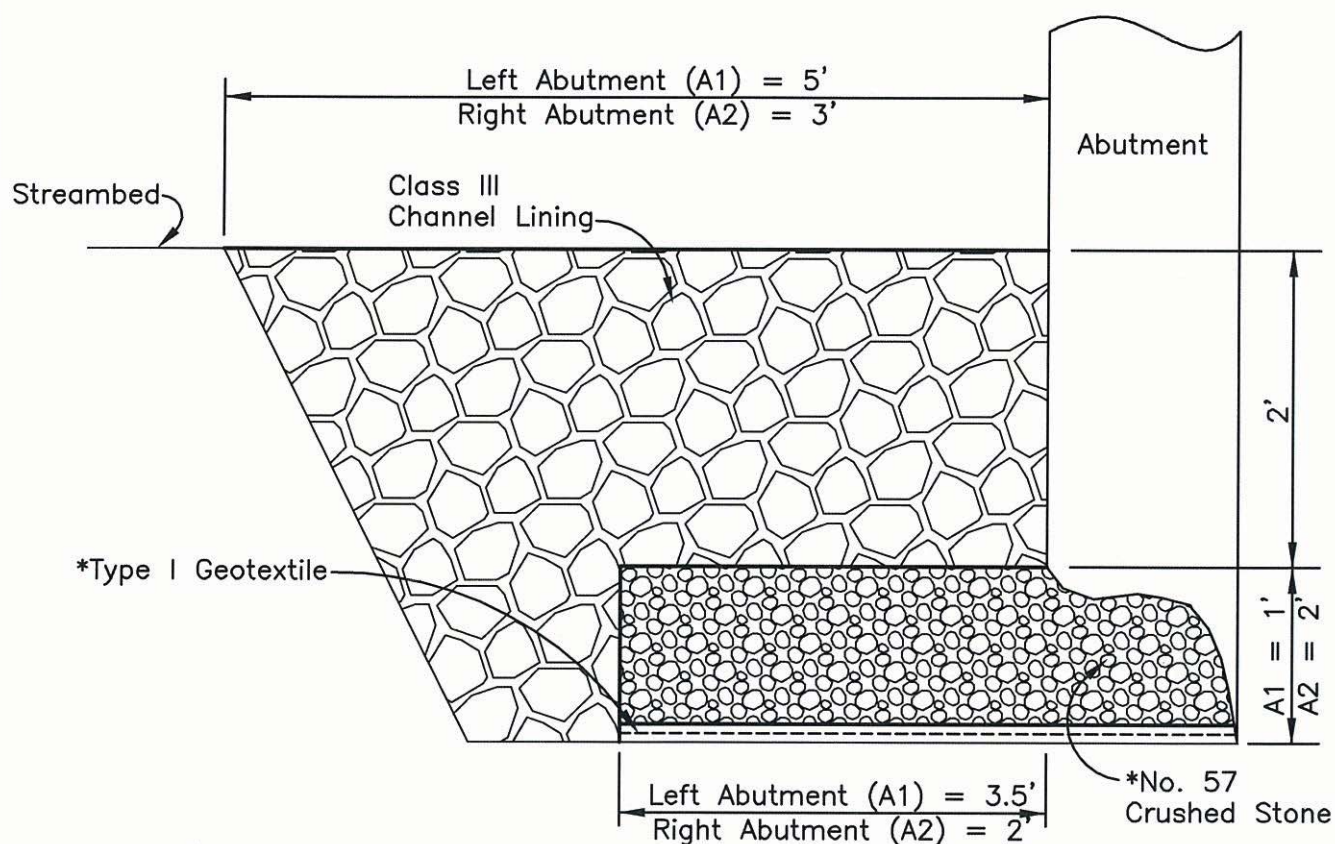
SECTION VIEW
CHANNEL LINING AROUND PIER



KYTC Countermeasures Program
District 1 - Carlisle County
Bridge No. 020B00041N



Sheet 3 of 3



Note:

Type I Geotextile and No. 57 Crushed Stone shall extend from bridge element to 2/3 distance of channel lining limits.

* No. 57 Stone and Type I Geotextile shall be added/removed as directed by the Engineer depending on site conditions.

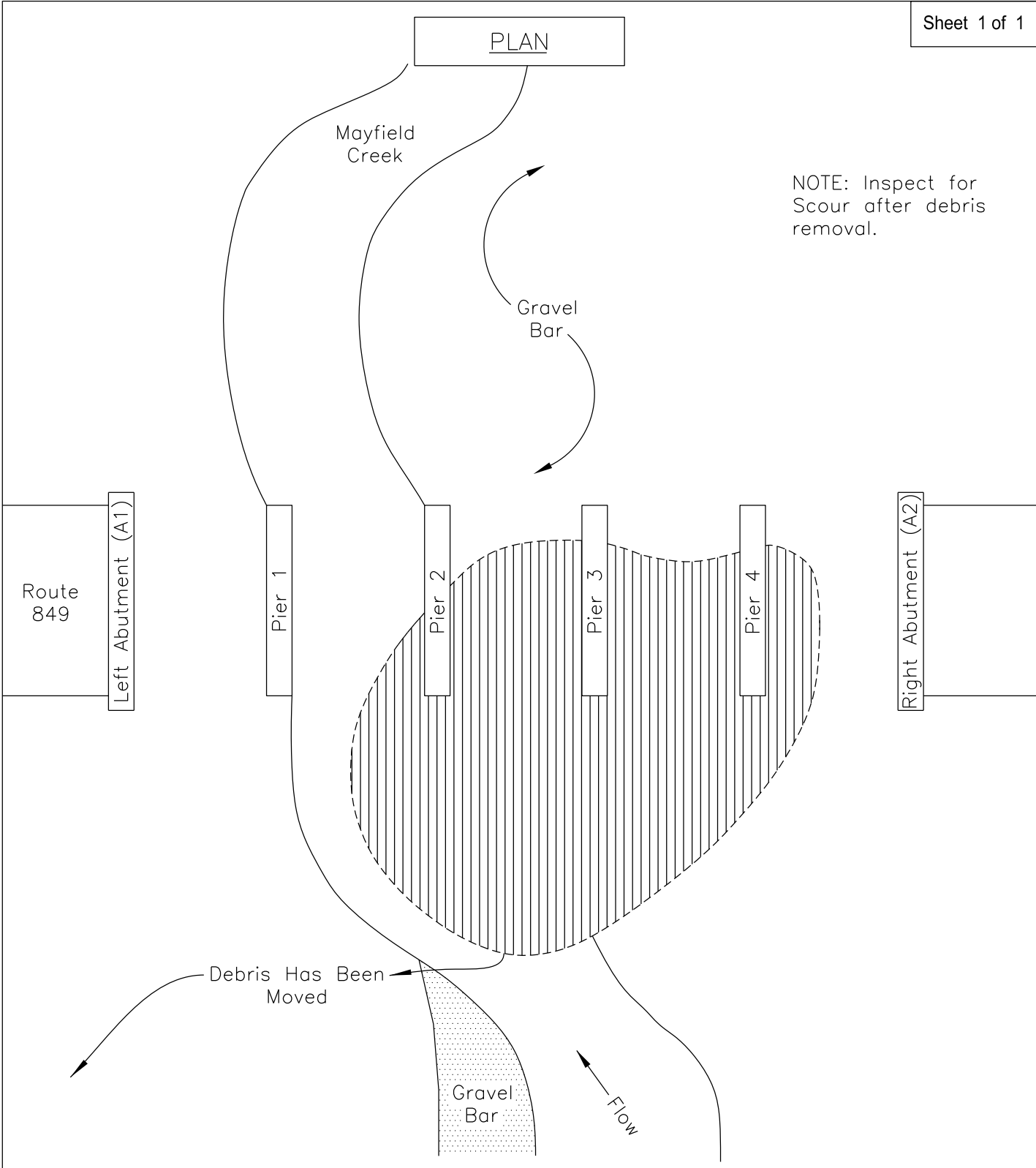
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SECTION VIEW
CHANNEL LINING AT ABUTMENT

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KYTC Countermeasures Program
District 1 - Graves County
Bridge No. 042B00084N

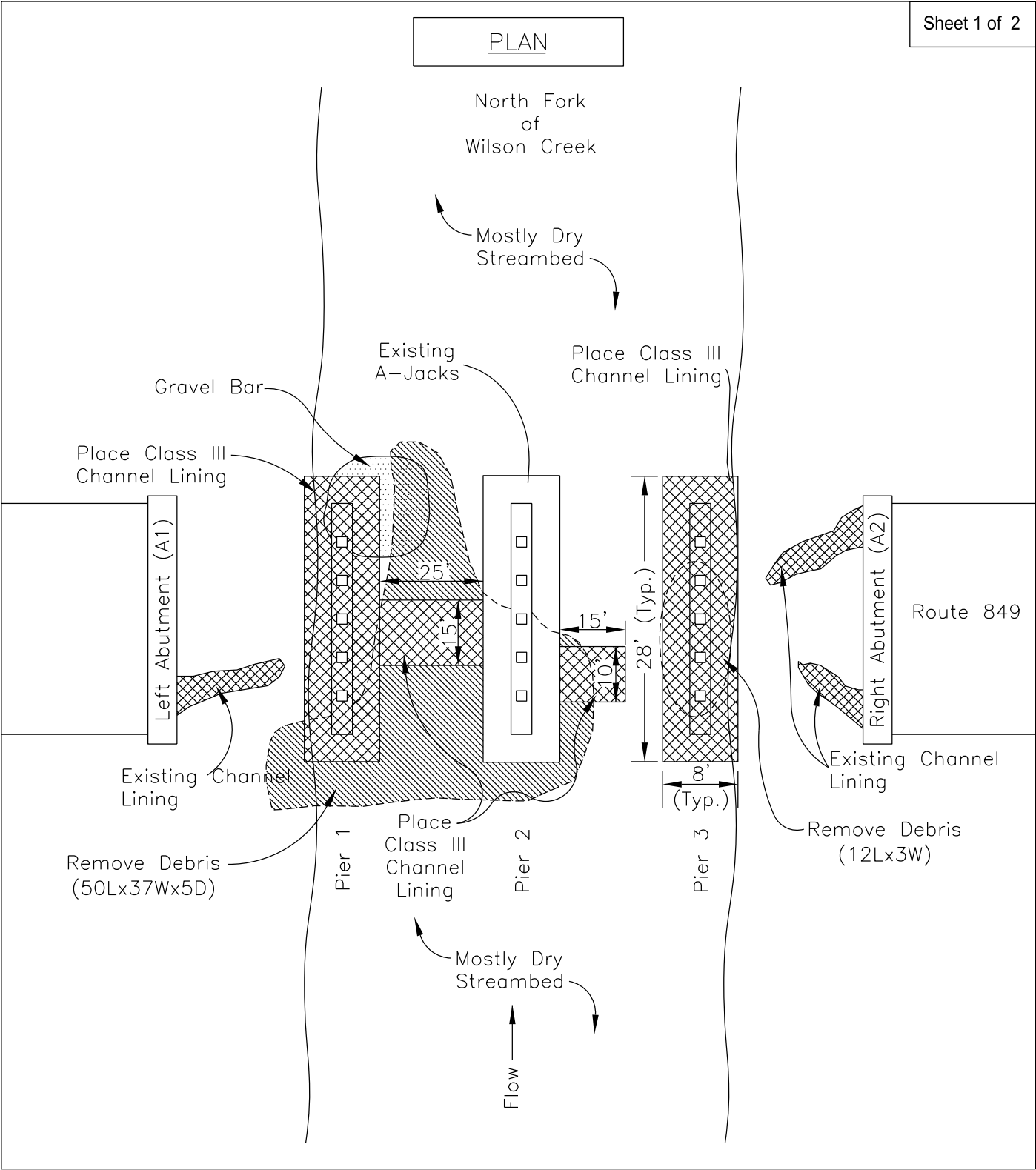
Sheet 1 of 1



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PLAN VIEW
(PROPOSED COUNTERMEASURES)

KYTC Countermeasures Program
District 1 - Graves County
Bridge No. 042B00133N



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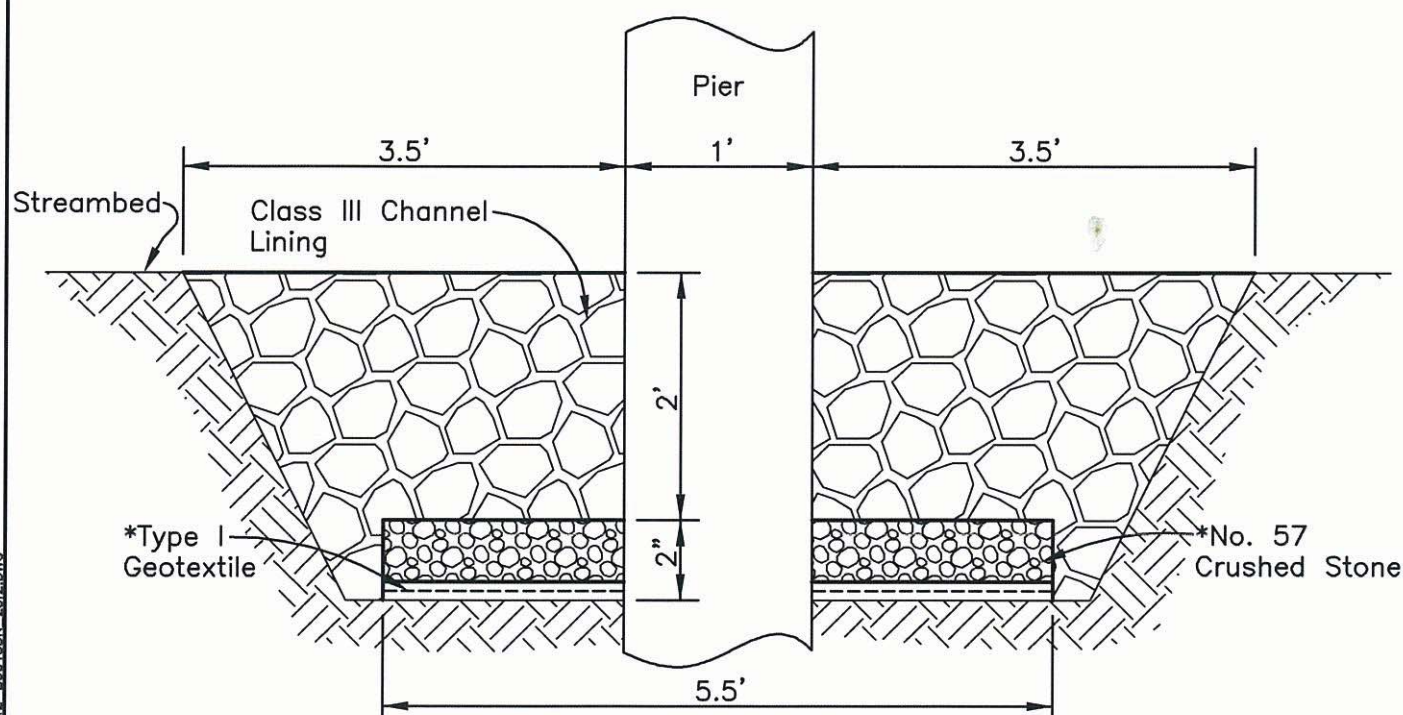
PLAN VIEW
(PROPOSED COUNTERMEASURES)



KYTC Countermeasures Program
District 1 - Graves County
Bridge No. 042B00133N



Sheet 2 of 2



Note:

Type I Geotextile and No. 57 Crushed Stone shall extend from bridge element to 2/3 distance of channel lining limits.

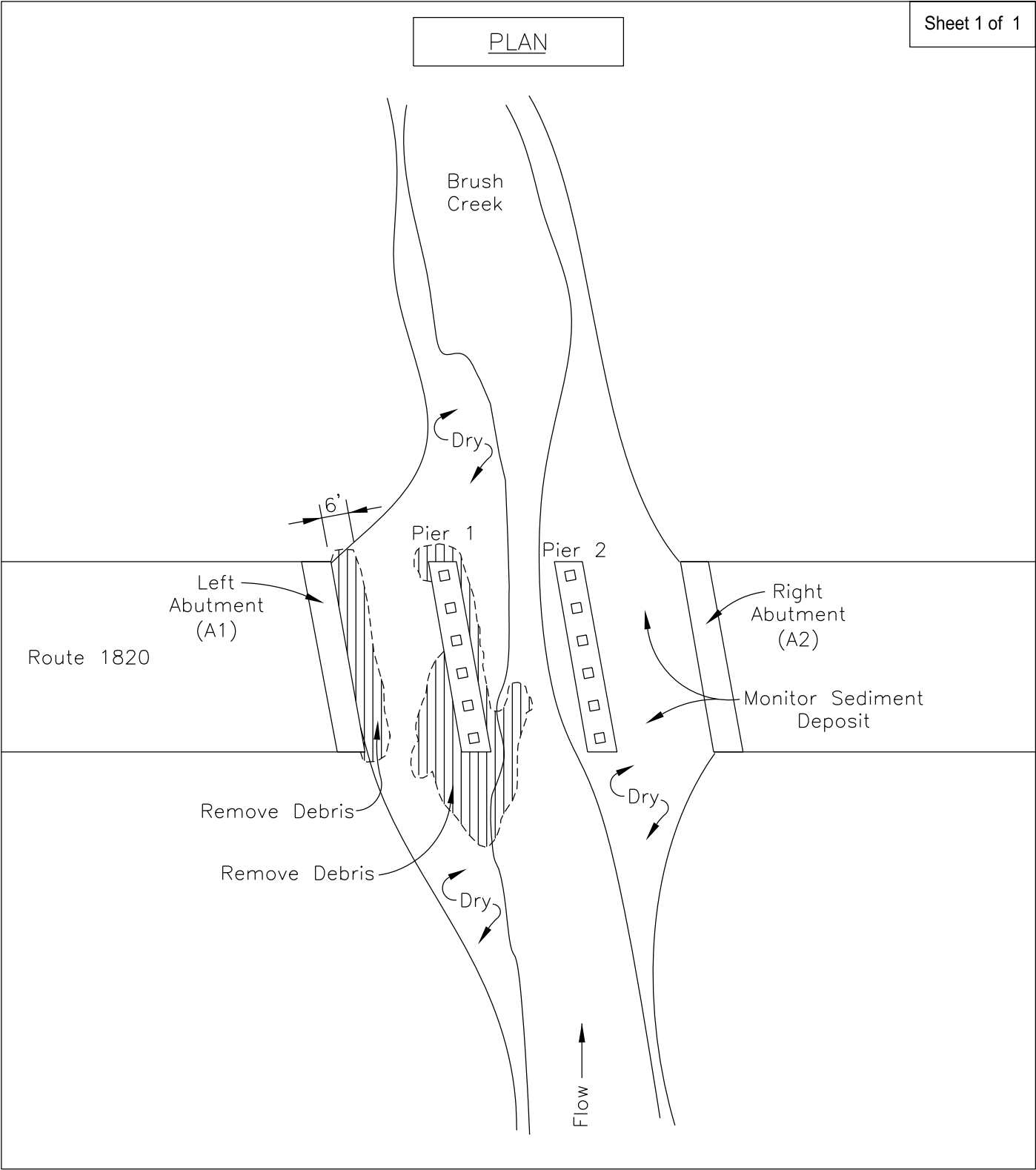
*No. 57 Stone and Type I Geotextile shall be added/removed by the Engineer depending on site conditions

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SECTION VIEW
CHANNEL LINING AROUND PIER

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KYTC Countermeasures Program
District 1 - Graves County
Bridge No. 042B00196N

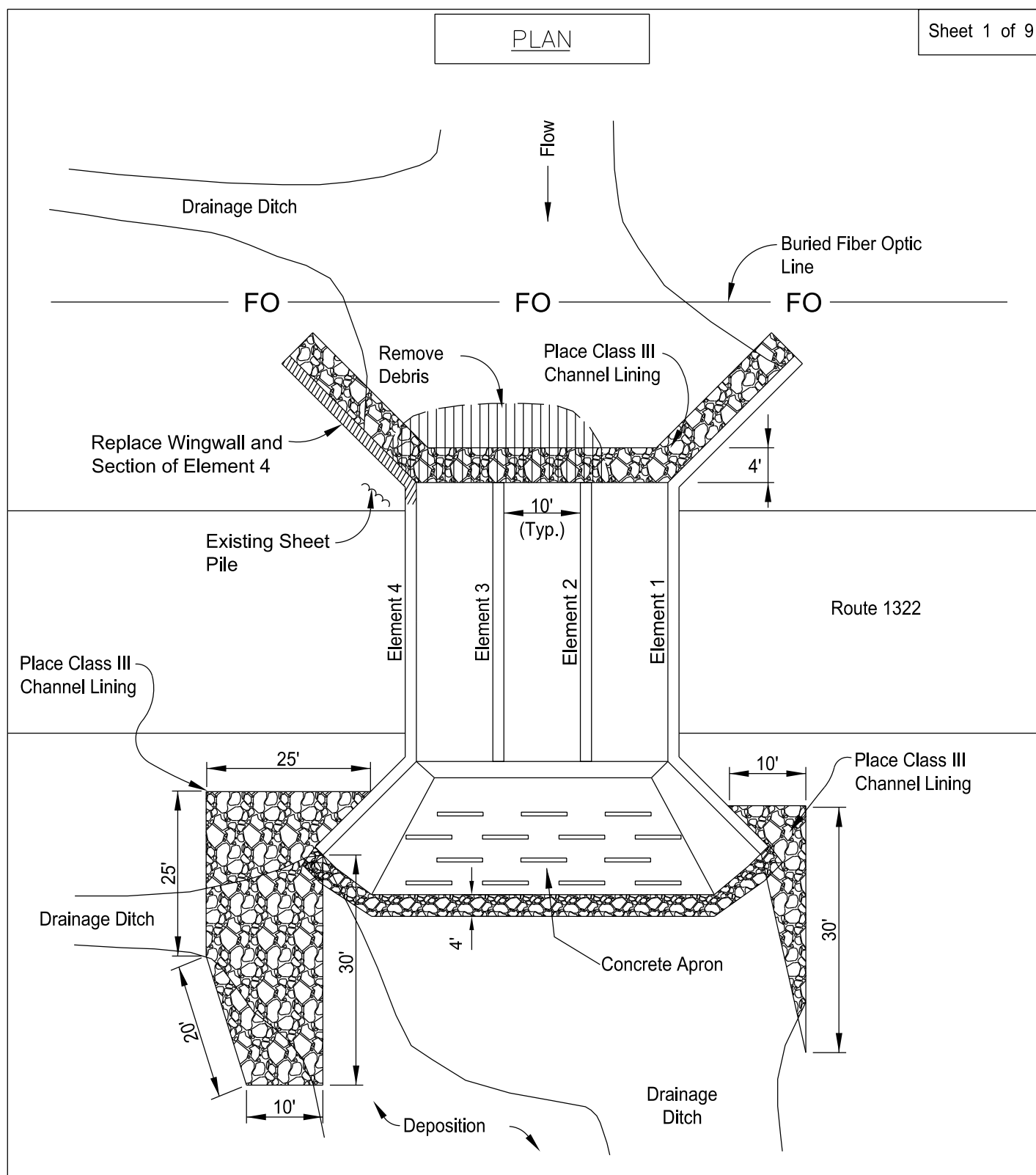


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PLAN VIEW
(PROPOSED COUNTERMEASURES)

PLAN

Sheet 1 of 9

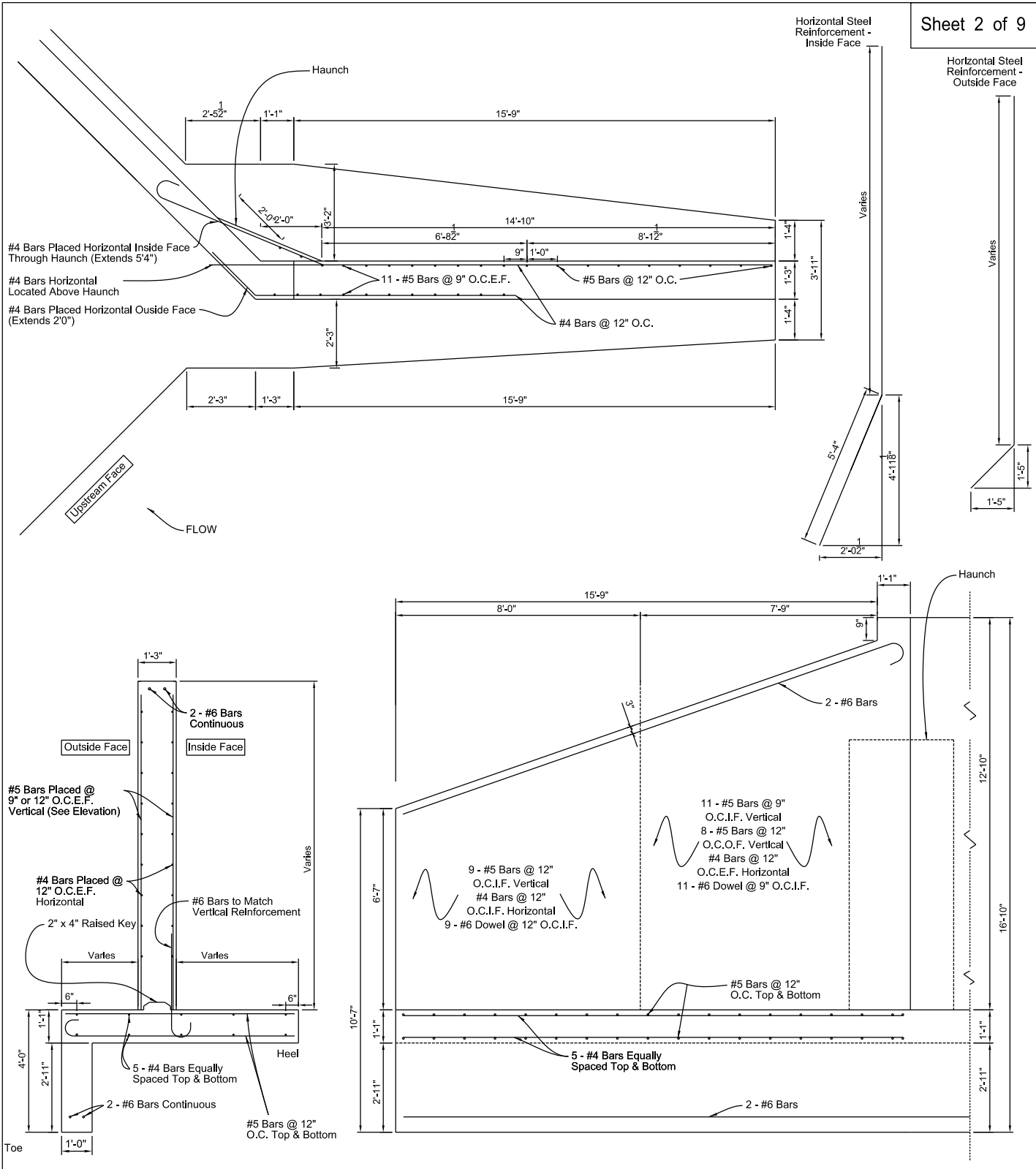


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PLAN VIEW
(PROPOSED COUNTERMEASURES)

KYTC Countermeasures Program
District 1 - McCracken County
Bridge No. 073B00078N

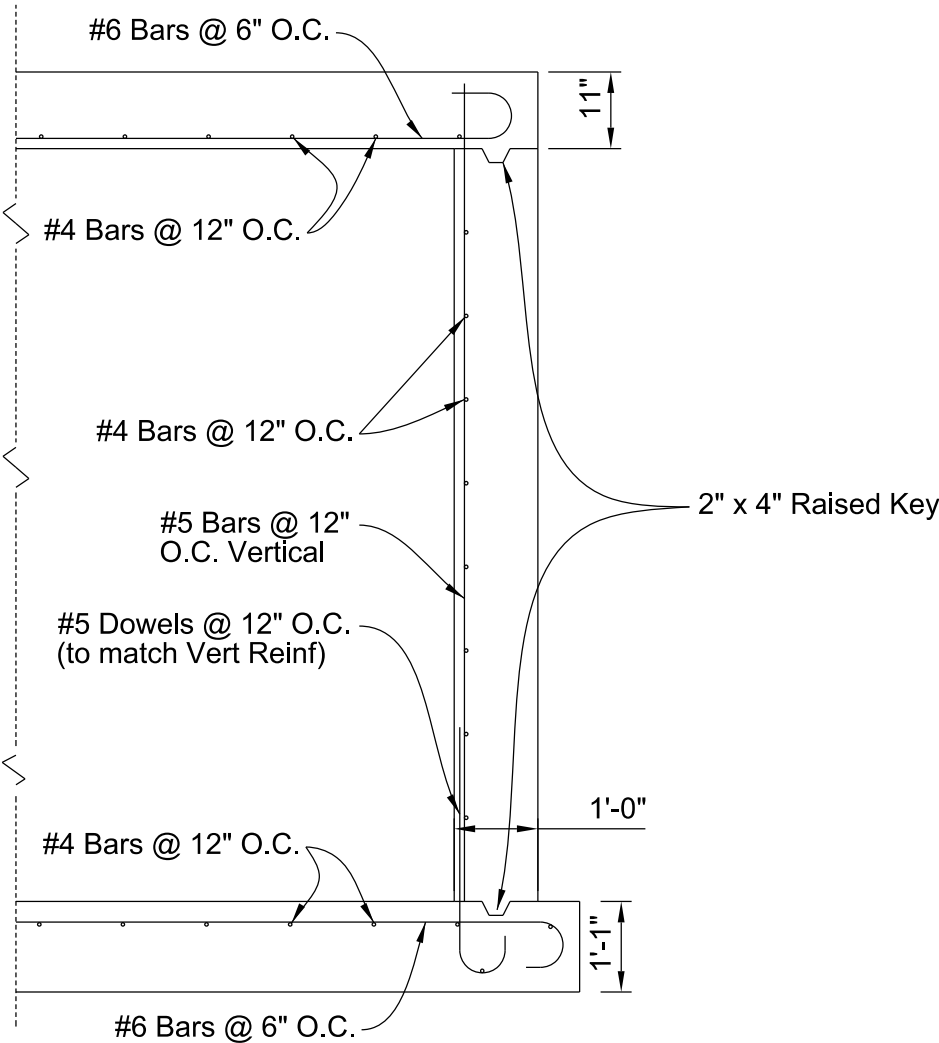
Sheet 2 of 9



WINGWALL REPLACEMENT

KYTC Countermeasures Program
District 1 - McCracken County
Bridge No. 073B00078N

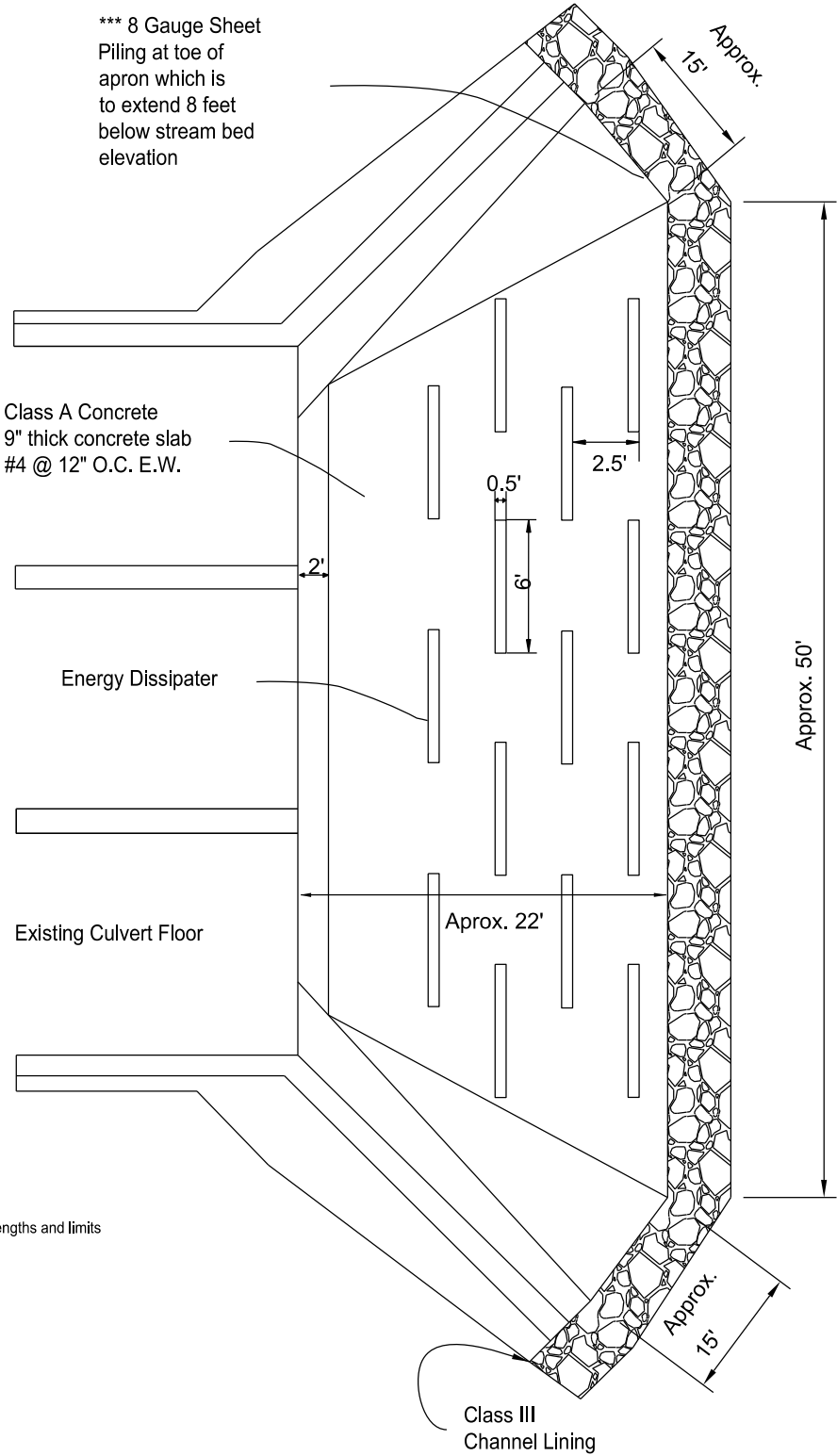
Sheet 3 of 9



BARRELL REPAIR

KYTC Countermeasures Program
District 1 - McCracken County
Bridge No. 073B00078N

Sheet 4 of 9

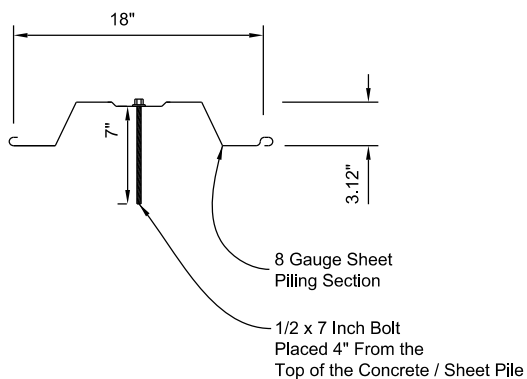


*** Extend / shorten pile lengths and limits at discretion of engineer

Not to Scale

PLAN VIEW

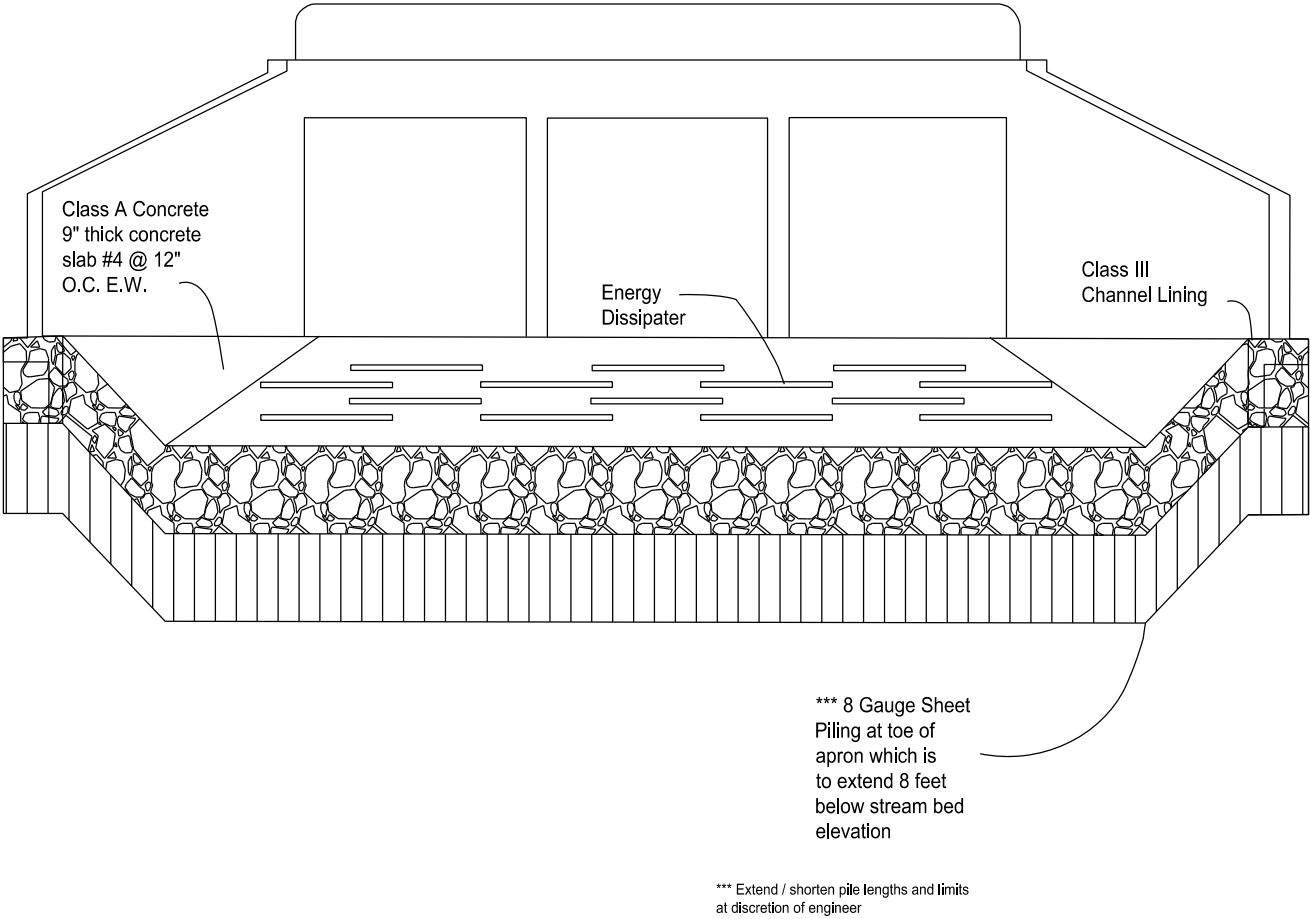
Sheet 5 of 9



SECTION VIEW

KYTC Countermeasures Program
District 1 - McCracken County
Bridge No. 073B00078N

Sheet 6 of 9

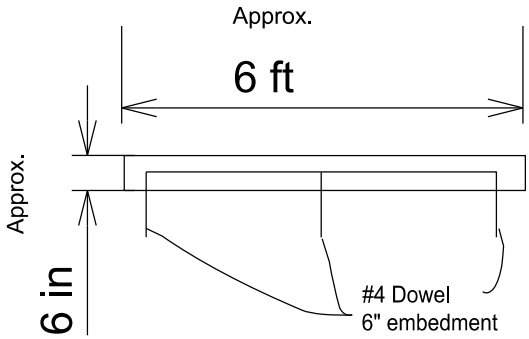
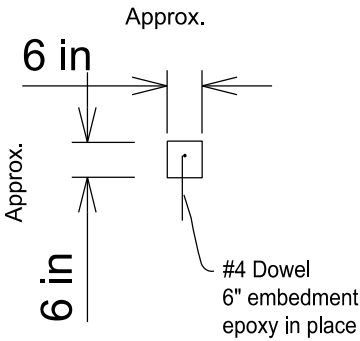
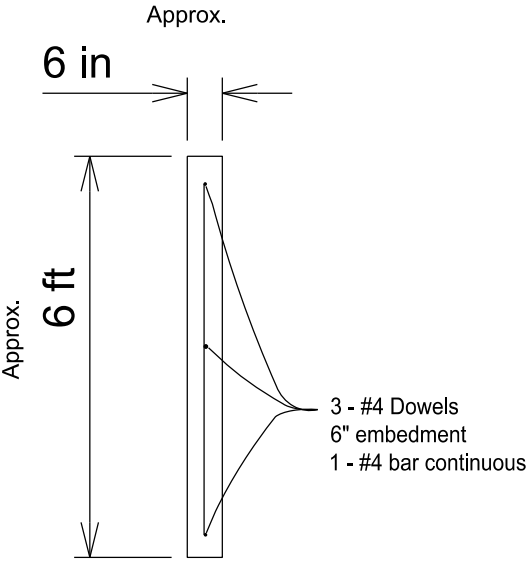


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ELEVATION VIEW

KYTC Countermeasures Program
District 1 - McCracken County
Bridge No. 073B00078N

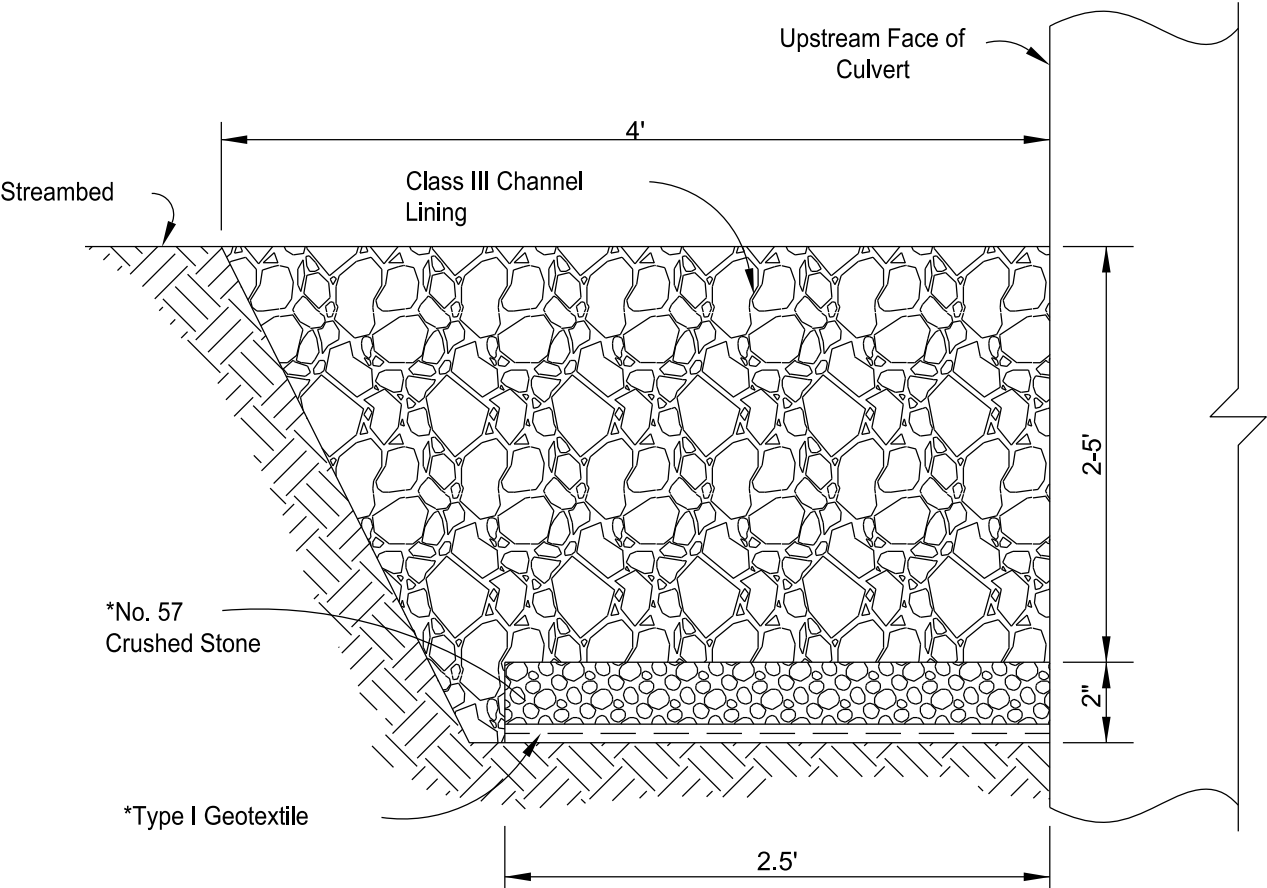
Sheet 7 of 9



ENERGY DISSIPATERS

KYTC Countermeasures Program
District 1 - McCracken County
Bridge No. 073B00078N

Sheet 8 of 9



Note:
Type I Geotextile and No. 57 Crushed Stone shall extend from
culvert element to 2/3 distance of channel lining limits.

* No. 57 Stone and Type I Geotextile shall be
added/removed as directed by the Engineer
depending on site conditions.

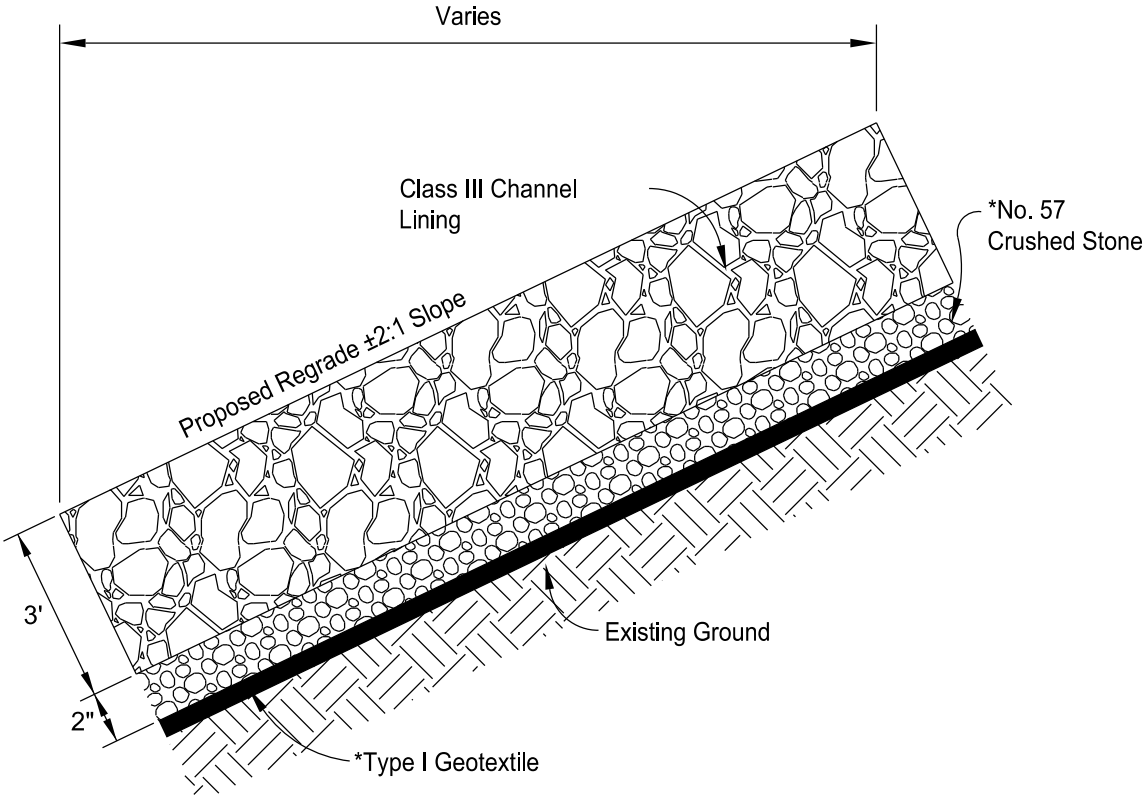
Not to Scale

SECTION VIEW
UPSTREAM FACE OF CULVERT

KYTC Countermeasures Program
District 1 - McCracken County
Bridge No. 073B00078N

SECTION VIEW

Sheet 9 of 9



*No. 57 Stone and Type I Geotextile shall be added/removed by the Engineer depending on site conditions

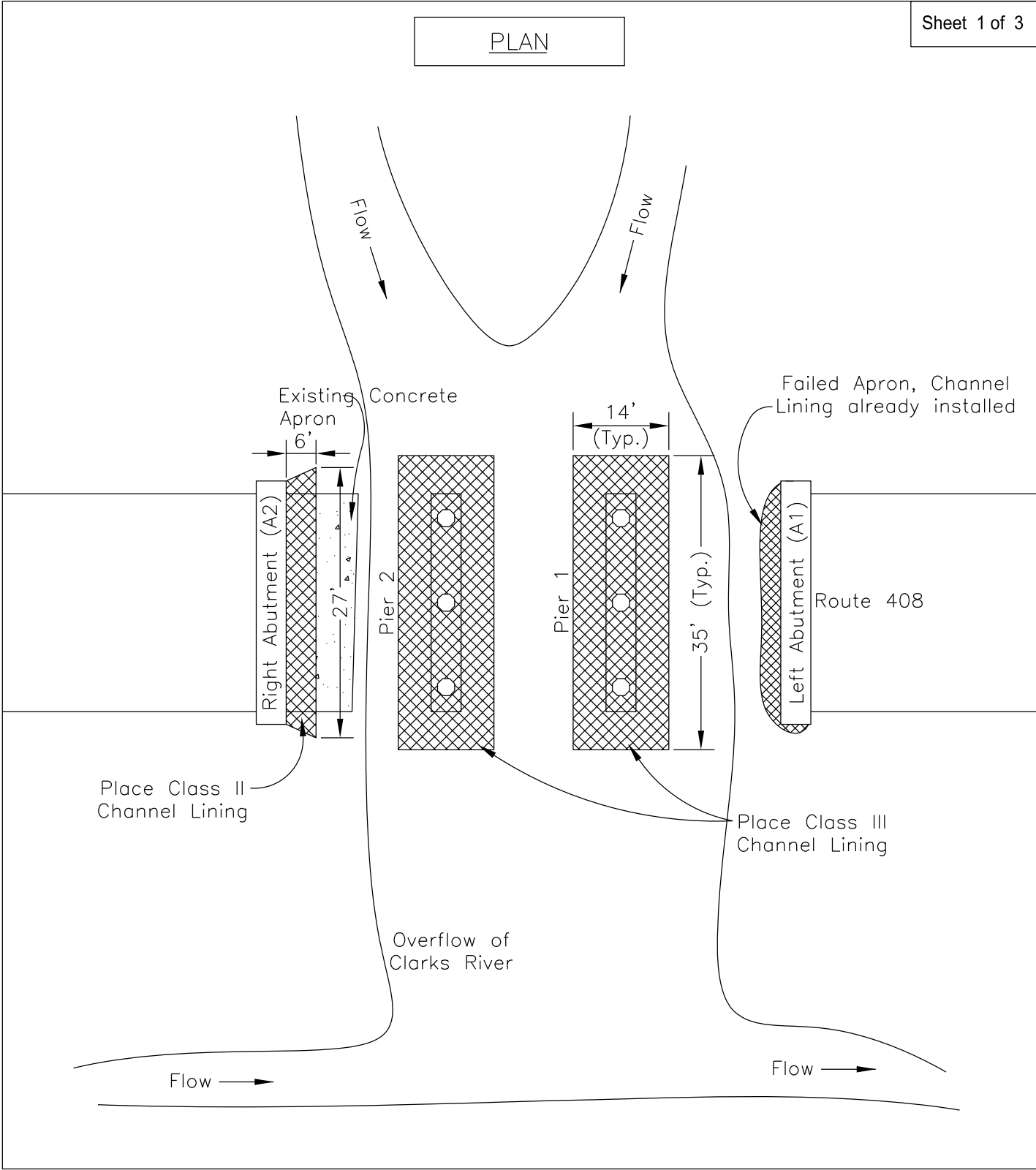
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SECTION VIEW
CHANNEL LINING ON SLOPE

KYTC Countermeasures Program
District 1 - Marshall County
Bridge No. 079B00017N

Sheet 1 of 3

PLAN

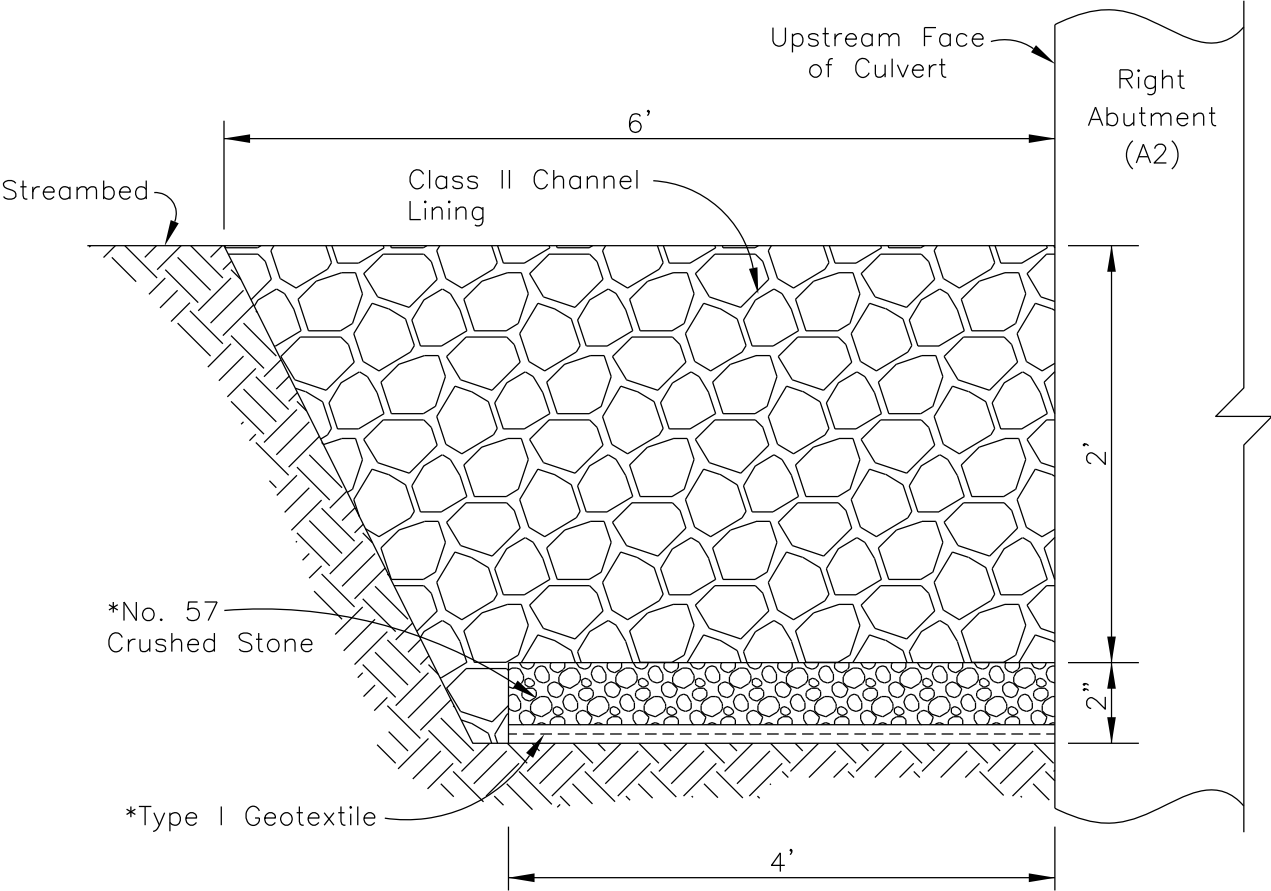


Not to Scale

PLAN VIEW
(PROPOSED COUNTERMEASURES)

KYTC Countermeasures Program
District 1 - Marshall County
Bridge No. 079B00017N

Sheet 2 of 3



Note:
Type I Geotextile and No. 57 Crushed Stone
shall extend from culvert element to 2/3
distance of channel lining limits.

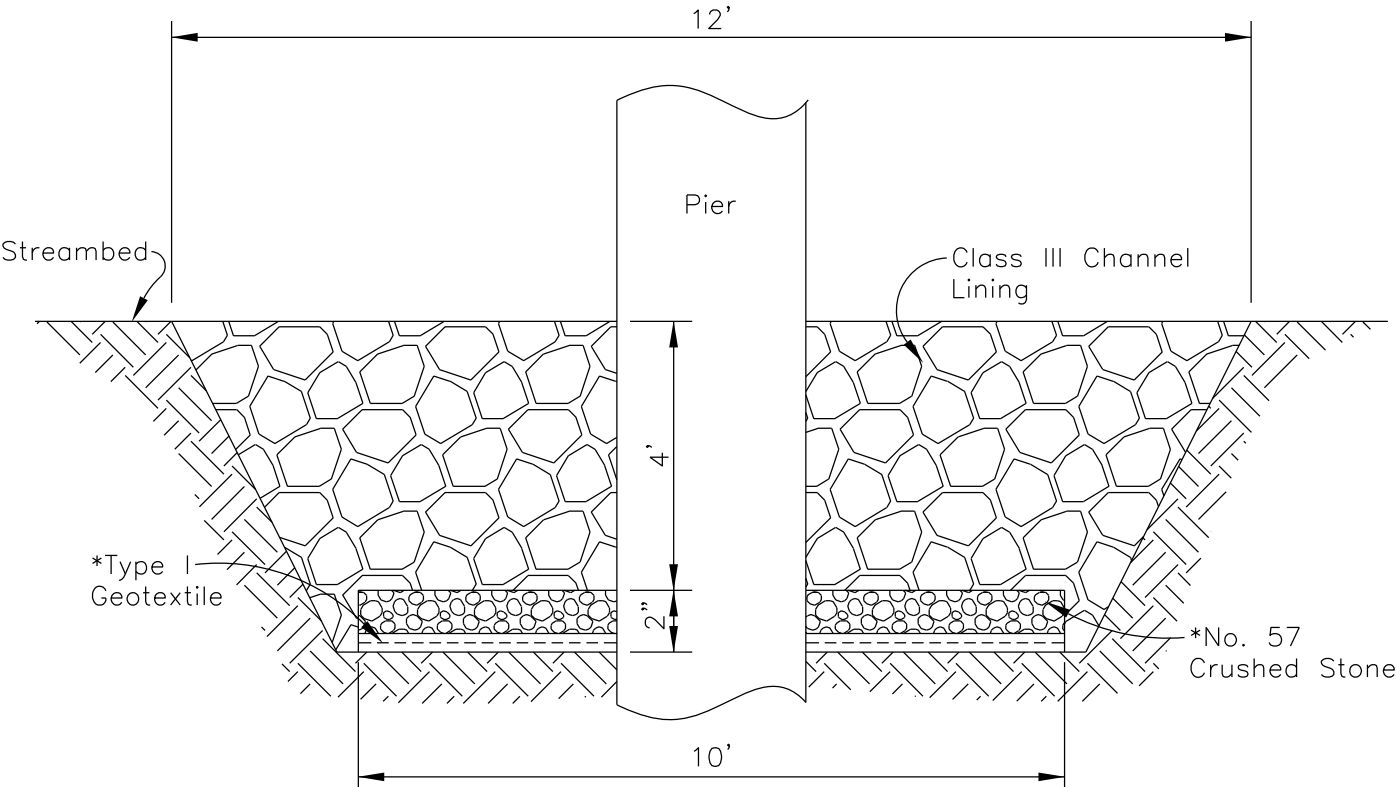
* No. 57 Stone and Type I Geotextile
shall be added/removed as directed
by the Engineer depending on site
conditions.

Not to Scale

SECTION VIEW
CHANNEL LINING AT
UPSTREAM FACE OF CULVERT

KYTC Countermeasures Program
District 1 - Marshall County
Bridge No. 079B00017N

Sheet 3 of 3



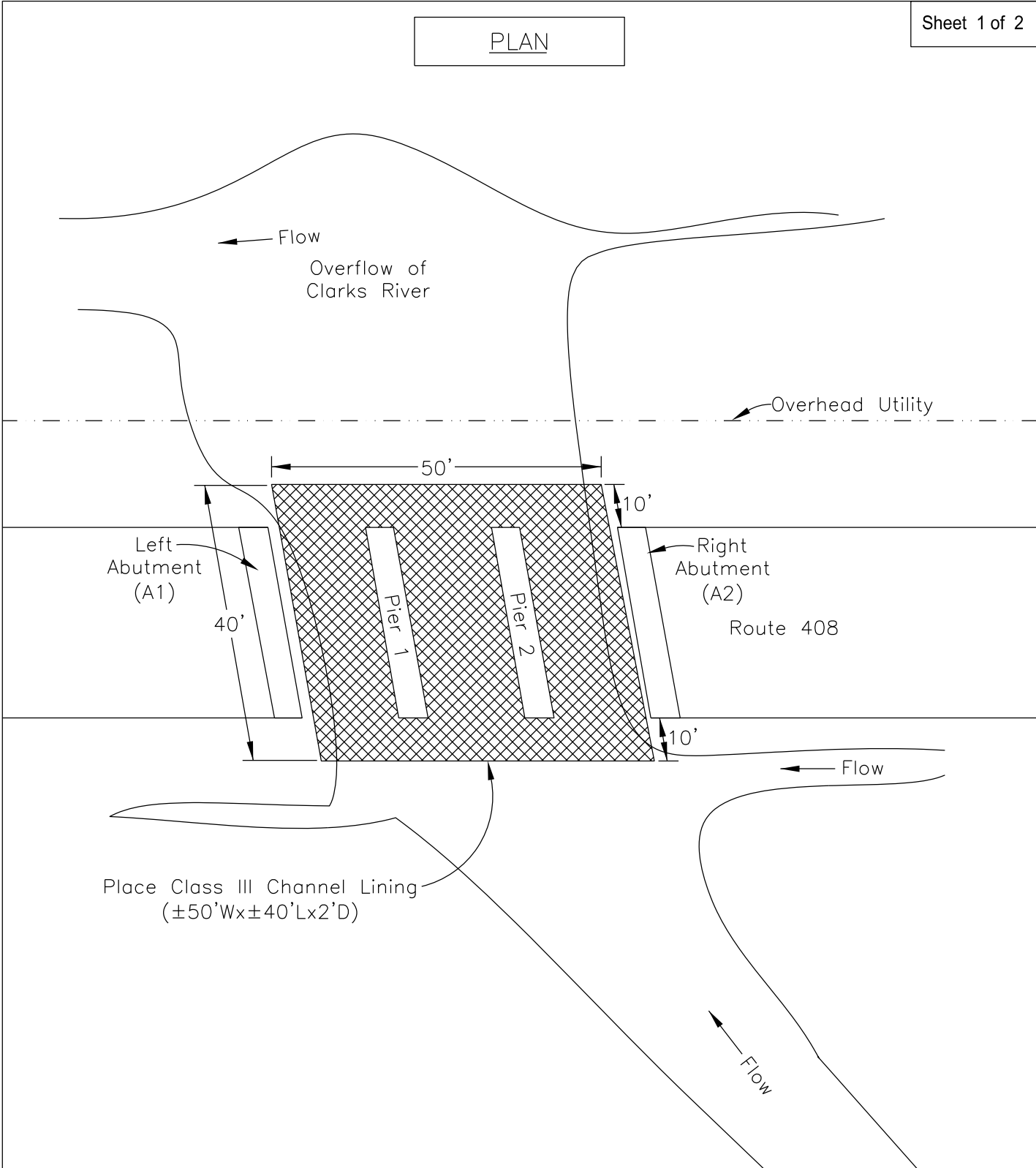
Note:
Type I Geotextile and No. 57 Crushed Stone shall extend from bridge element to 2/3 distance of channel lining limits.

*No. 57 Stone and Type I Geotextile shall be added/removed by the Engineer depending on site conditions

KYTC Countermeasures Program
District 1 - Marshall County
Bridge No. 079B00018N

PLAN

Sheet 1 of 2



Not to Scale

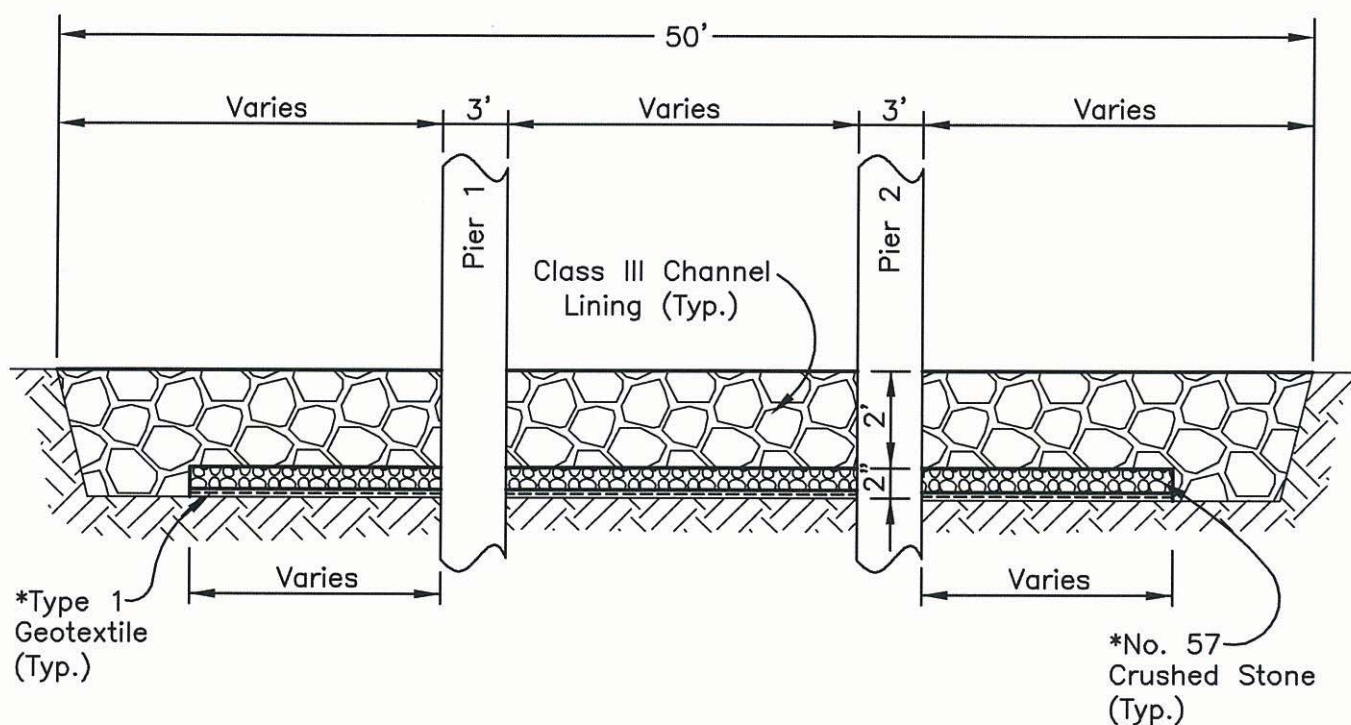
PLAN VIEW
(PROPOSED COUNTERMEASURES)



KYTC Countermeasures Program
District 1 - Marshall County
Bridge No. 079B00018N



Sheet 2 of 2



Note:

Type I Geotextile and No. 57 Crushed Stone shall extend from Pier 1 to Pier 2; elsewhere, they shall extend from bridge element to 2/3 distance of channel lining limits.

* No. 57 Stone and Type I Geotextile shall be added/removed as directed by the Engineer depending on site conditions.

Not to Scale

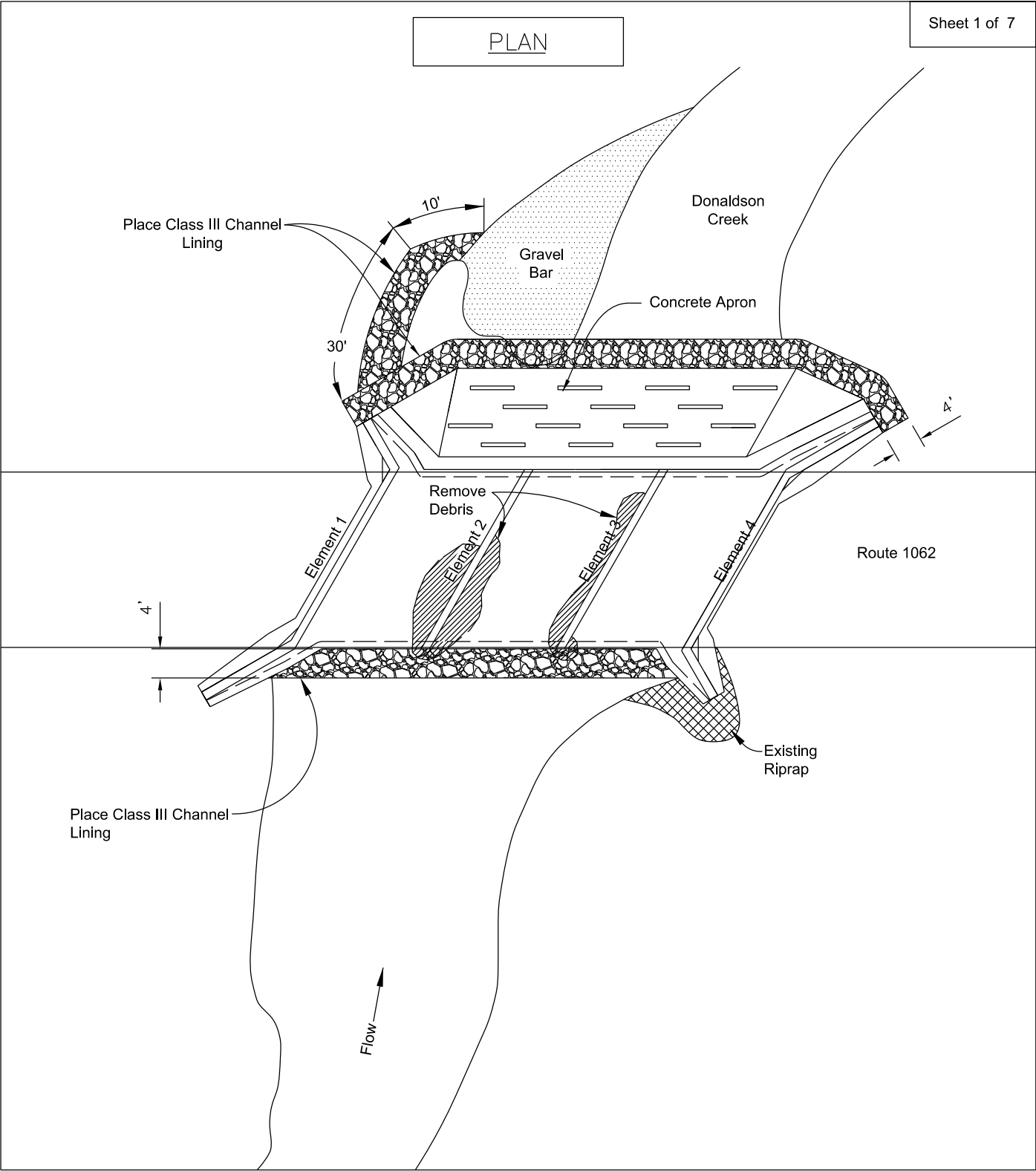
SECTION VIEW
CHANNEL LINING AROUND PIERS

175588121\DRAWING\NON_FED2_BRIDGES\DWG\DISTRICT1\79-B00018N_2of2.DWG

KYTC Countermeasures Program
District 1 - Trigg County
Bridge No. 111B00032N

PLAN

Sheet 1 of 7



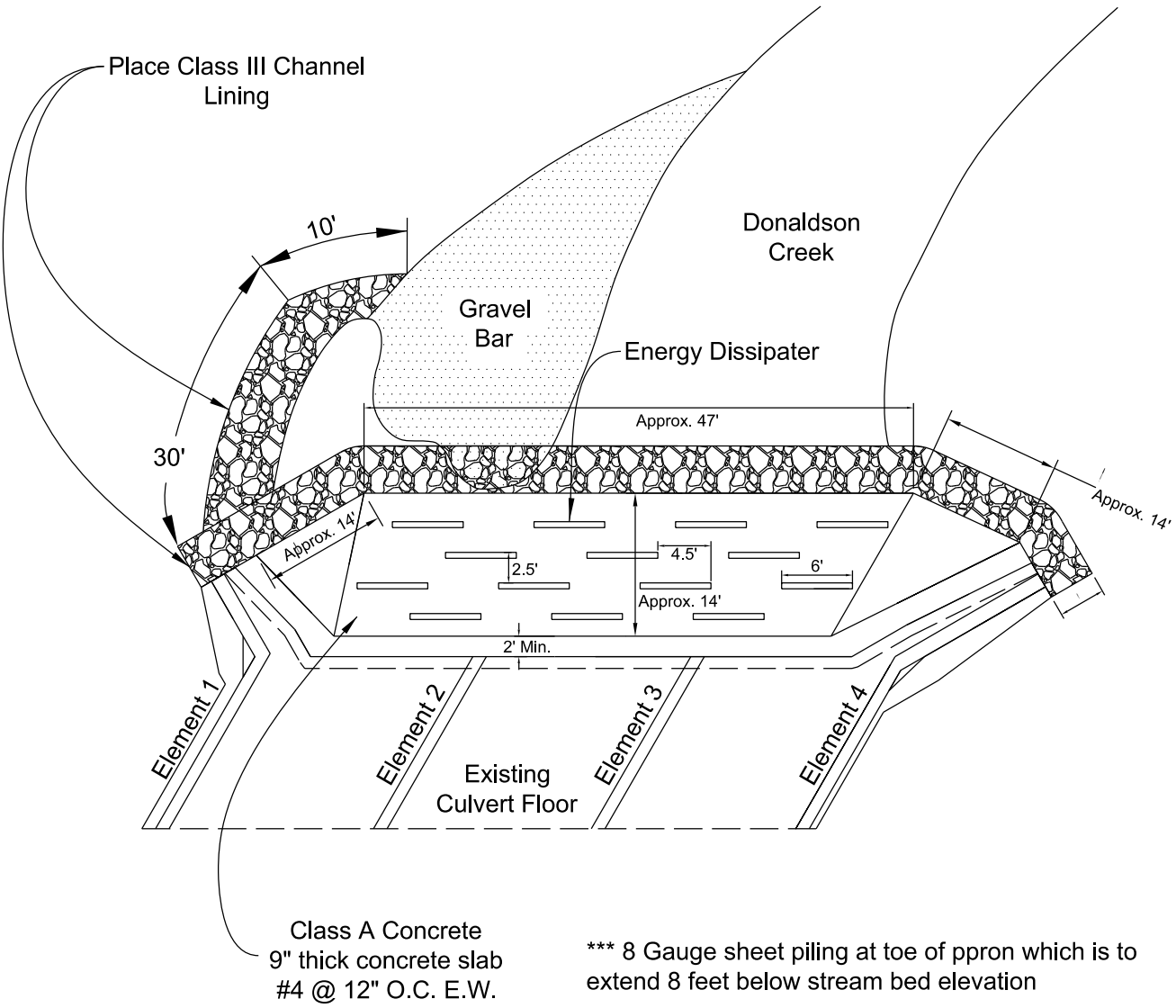
Not to Scale

PLAN VIEW
(PROPOSED COUNTERMEASURES)

KYTC Countermeasures Program
District 1 - Trigg County
Bridge No. 111B00032N

PLAN

Sheet 2 of 7



*** 8 Gauge sheet piling at toe of ppron which is to extend 8 feet below stream bed elevation

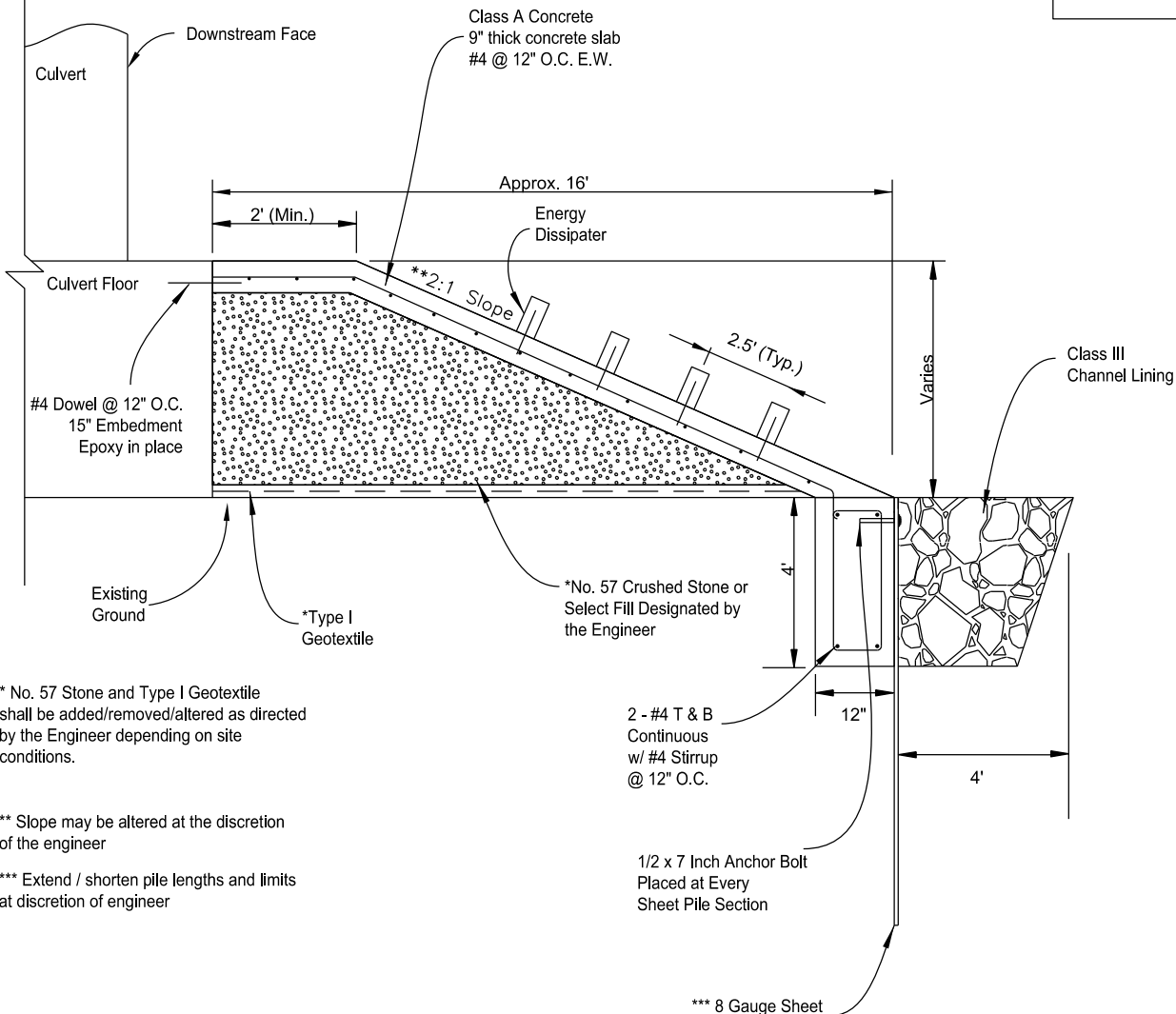
*** Extend / shorten sheet pile lengths and limits at discretion of engineer

Not to Scale

DOWNSTREAM PLAN VIEW
(PROPOSED COUNTERMEASURES)

KYTC Countermeasures Program
District 1 - Trigg County
Bridge No. 111B00032N

Sheet 3 of 7

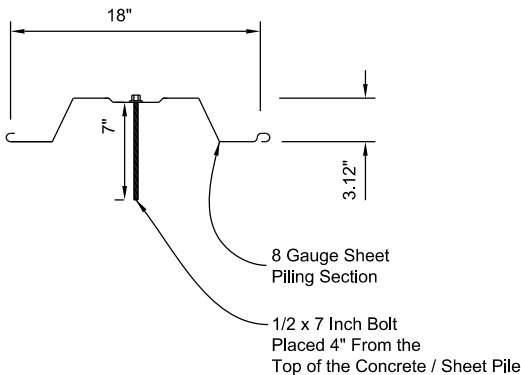


* No. 57 Stone and Type I Geotextile shall be added/removed/alterd as directed by the Engineer depending on site conditions.

** Slope may be altered at the discretion of the engineer

*** Extend / shorten pile lengths and limits at discretion of engineer

Sheet Piling Detail



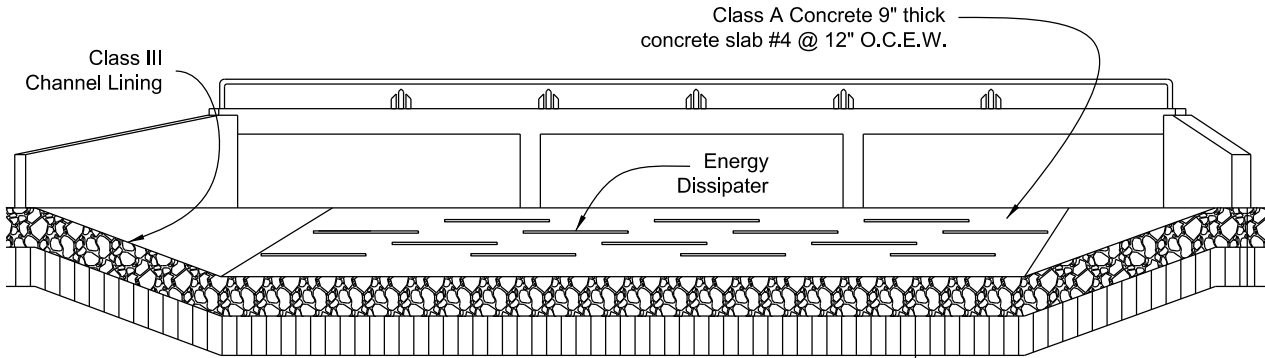
*** 8 Gauge Sheet Piling at toe of apron which is to extend 8 feet below stream bed elevation

Not to Scale

SECTION VIEW

KYTC Countermeasures Program
District 1 - Trigg County
Bridge No. 111B00032N

Sheet 4 of 7



Class III
Channel Lining

Class A Concrete 9" thick
concrete slab #4 @ 12" O.C.E.W.

Energy
Dissipater

*** 8 Gauge Sheet Piling at toe of apron
which is to extend 8 feet below stream
bed elevation

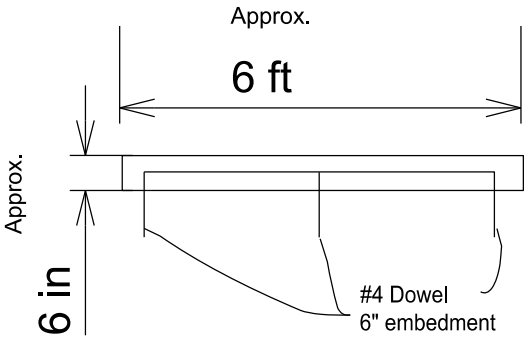
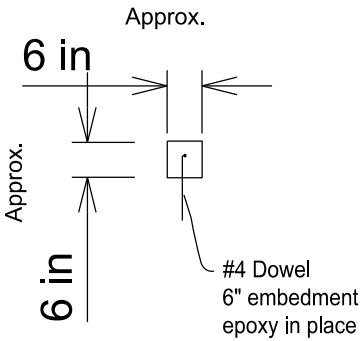
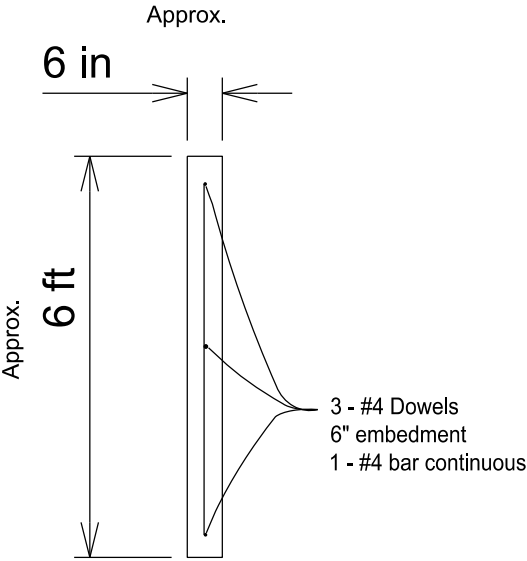
*** Extend / shorten pile
lengths and limits
at discretion of engineer

Not to Scale

DOWNSTREAM ELEVATION VIEW
(PROPOSED COUNTERMEASURES)

KYTC Countermeasures Program
District 1 - Trigg County
Bridge No. 111B00032N

Sheet 5 of 7

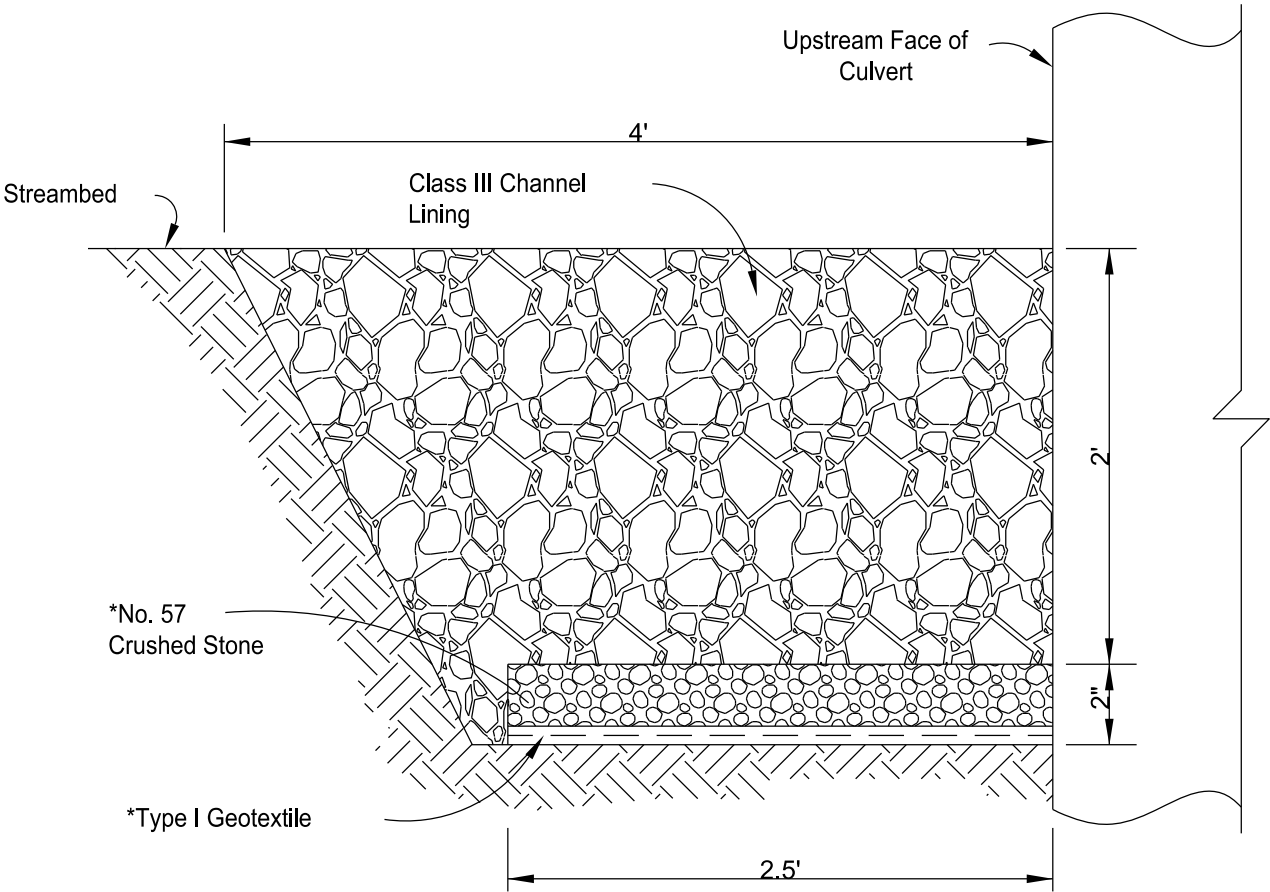


ENERGY DISSIPATERS

KYTC Countermeasures Program
District 1 - Trigg County
Bridge No. 111B00032N

SECTION VIEW

Sheet 6 of 7



Note:
Type I Geotextile and No. 57 Crushed Stone shall extend from
culvert element to 2/3 distance of channel lining limits.

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depending on site conditions.

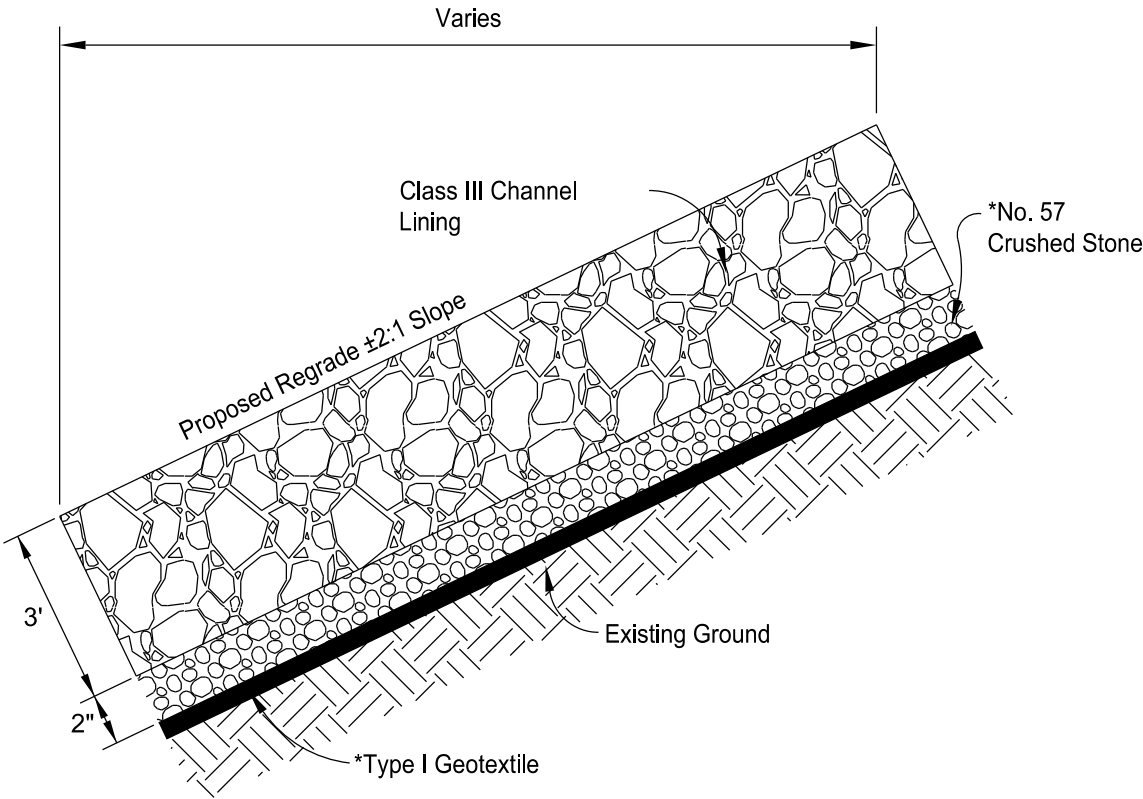
Not to Scale

SECTION VIEW
UPSTREAM FACE OF CULVERT

KYTC Countermeasures Program
District 1 - Trigg County
Bridge No. 111B00032N

SECTION VIEW

Sheet 7 of 7



*No. 57 Stone and Type I Geotextile shall be added/removed by the Engineer depending on site conditions

Not to Scale

SECTION VIEW
CHANNEL LINING ON SLOPE



KYTC Scour Countermeasures Program Package A



SPECIAL NOTE FOR CONTRACT COMPLETION DATE AND LIQUIDATED DAMAGES

I. COMPLETION DATE

The Contractor has the option of selecting the starting date for this Contract. Once selected, notify the Department in writing of the date selected at least two weeks prior to beginning work. All work is to be completed by March 31, 2012. An allotted number of Calendar days are assigned to each structure in this contract as shown below.

| <u>STRUCTURE</u> | <u>NUMBER OF CALENDAR DAYS</u> |
|-------------------------|---------------------------------------|
| 004B00023N | 10 |
| 018B00015N | 05 |
| 018B00066N | 05 |
| 018B00085N | 03 |
| 018B00086N | 10 |
| 018B00099N | 05 |
| 020B00041N | 10 |
| 042B00084N | 10 |
| 042B00133N | 10 |
| 042B00196N | 03 |
| 073B00078N | 14 |
| 079B00017N | 05 |
| 079B00018N | 05 |
| 111B00032N | 14 |

Contrary to Section 108.07.02, the Engineer will begin charging calendar days for a structure on the day the Contractor starts work or sets up traffic control on that particular structure.

II. LIQUIDATED DAMAGES

Liquidated damages will be assessed the Contractor in accordance with the Transportation Cabinet, Department of Highway's 2008 Standard Specifications for Road and Bridge Construction, Section 108.09, when either the allotted number of calendar days or the March 31, 2012 date is exceeded.

Contrary to the Standard Specifications, liquidated damages will be assessed the Contractor during the months of December, January, February and March when the contract time has expired on any individual bridge or bridges. Contract time will be charged during these months.

All construction must be completed in accordance with the weather limitations specified in Section 606 and/or Section 601 as applicable. No extension of Contract time will be granted due to inclement weather or temperature



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KYTC Scour Countermeasures Program Package A



limitations that occur due to starting work on the Contract or a structure late in the construction season.

Right-of-Way Certification Form

Revised 5/27/09

☒ **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 Mega projects. This form shall also be submitted to FHWA for all federal-aid projects that fall under conditions No. 2 & 3 outlined elsewhere in this form. For all other federal-aid projects, this form shall be completed and retained in the KYTC project file.

Date: July 25, 2011Project #: 112911County: VARIOUSItem #: ~~99-1071~~ 01-1139.00Federal #: BRO 3000 (855)Letting Date: 9/23/11**Description of Project:** Scour
countermeasure projects, various District 1
counties**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 and families ("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.)



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 these improvements and enter on all land. **Fair market value has been paid or deposited with the court.**



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 an Interlocutory Judgment has been granted, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish these 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 start of construction. (See note.)**

Note: The KYTC shall re-submit a right-of-way re-certification form for this project prior to the start of construction (**Notice to Proceed**), verifying that fair market value for all parcels has been paid or deposited with the court.

Right-of-Way Certification Form



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 physical construction even though the necessary rights-of-way will not be fully acquired, and/or some occupants will not be relocated, and/or the fair marked value will not be paid or deposited with the court for some parcels at the start of construction. KYTC will fully meet all the requirements outlined in 23 CFR 309(c) (3) and 49 CFR 102(j) and will expedite completion of all acquisitions, relocations, and full payments after construction starts. 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 consideration and approval. (See note.)

Note: The KYTC may request authorization on this basis only in unique and unusual circumstances. Proceeding to construction of projects on this basis shall be the exception and never become the rule. In all FHWA-approved cases, the KYTC shall make extraordinary efforts to expedite completion of the acquisition, payment for all affected parcels, and the relocation of all relocatees promptly 30 days after start of construction.

Approved: M. L. May FOR GREG MORAN
Name

Date 7/25/11 District ROW Supervisor

Approved: _____
Name

Date _____ Director of ROW & Utilities
or Designee

Approved: _____
Name

Date _____ FHWA, Right-of-Way Officer

Right-of-Way Certification Form

Date: July 25, 2011Project #: 112911County: VARIOUSItem #: ~~99-1071~~ 01-1139.00Federal #: BRO 3000 (855)Letting Date: 9/23/11

This project has 0 Total number of parcels acquired, and 0 Total number of individual or families relocated, as well as 0 Total number of businesses relocated.

- 0 Parcels were acquired by a signed fee simple deed and fair market value has been paid **(Type 1)**
- 0 Parcels have been acquired through condemnation and IOJ granted by the court and fair market value has been deposited with the court **(Type 1 certification)**
- 0 Parcels have not been acquired at this time but can be Re-certified as acquired prior to Notice to Proceed for construction. *(explain below for each parcel)* **(Type 2 certification)**
- 0 Parcels have been acquired or have a "right of Entry" but the fair market value has not been paid or has not been posted with the court, and they can not be re-certified prior to construction. (These parcels require an explanation below for each one as well as FHWA approval. **(Type 3 only)**)
- 0 Relocatees have not been relocated from parcels.
(explain below for each parcel)

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

There are _____ billboards and/or _____ cemeteries involved on this project.

There are _____ water or monitoring wells on parcels.

UTILITY NOTES TO BE INCLUDED IN THE PROPOSAL
SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

VARIOUS COUNTIES, BRO 3000 (855)
Scour Countermeasures @ Various Locations in District 1
Item No. 01-1139.00

PROTECTION OF UTILITY FACILITIES

The location of utilities provided in the contact document has been furnished by the facility owners and/or by reviewing record drawings and may not be accurate. It will be the Roadway Contractor's responsibility to locate the utilities before excavating by calling the various utility owners and by examining any supplemental information supplied by the Cabinet. If necessary, the Roadway Contractor shall determine the exact location and elevation of utilities by hand digging to expose utilities before excavating in the area of the utility. The cost for repair and any other associated costs for any damage to utilities caused by the Roadway Contractor's operation shall be borne by the Roadway Contractor.

There are thirteen discrete locations on this project. The Cabinet has made a good faith effort to locate utility facilities that might be in conflict with the work on this project. The Cabinet does not expect utility facilities to impact the Contractor's operations; however, the Contractor will be responsible for contacting all utility facility owners on the project to have existing facilities located in the field. The Contractor shall coordinate activities with the utility facility owners to minimize and, where possible, avoid conflicts with utility facilities.

Where conflicts with utility facilities are unavoidable the Roadway Contractor will coordinate any necessary relocation work with the facility owner.

Below is a brief report on the existing facilities that were identified by the Cabinet and Utility facility owners at each of the locations on the project.

004B00023N

A buried telephone facility is located approximately 60' upstream of the bridge. No electric, gas, or water facilities were identified at this location.

018B0015N

An overhead electric facility crosses the structure diagonally, approximately 20' above the stream. Overhead phone is located 25' high and 30' upstream. A utility pole is approximately 5' from the south corner of the structure. No gas or water facilities were identified at this location.

018B0066N

An overhead phone facility is located approximately 20' upstream and 25' high. No gas, water, or electric facilities were identified at this location.

018B00085N

An overhead electric facility is located approximately 12' upstream and 30' high. An overhead phone facility is located approximately 12' downstream and 30' high. No gas or water facilities were identified at this location.

018B00086N

A gas line is buried approximately 10' south of bridge end diagonally under the road. An overhead telephone facility is located approximately 30' upstream and 25' high. No electric or water facilities were identified at this location. It may be necessary to place riprap over the gas line at this location. The Contractor will exercise all necessary caution to protect the gas line during this operation.

018B00099N

An overhead telephone facility is located approximately 65' downstream and 30' high. No gas, electric, or water facilities were identified at this location.

020B00041N

An overhead electric facility is located approximately 50' upstream and 50' overhead. No gas, water, or telephone facilities were identified at this location.

042B00084N

An overhead electric facility is located approximately 6' from NE corner of this structure. No gas, water, or telephone facilities were identified at this location.

042B00133N

An overhead telephone facility is located approximately 50' downstream from the structure and approximately 30' high. No gas, electric, or water facilities were identified at this location.

042B00196N

An overhead electric overhead is located approximately 30' upstream and 35' high. No gas, water, or telephone was identified at this location.

073B00078N

A buried telephone facility is located approximately 60' upstream. No water or gas facilities were identified at this location.

079B00017N

An overhead electric facility is located approximately 20' upstream and 30' high. No telephone, gas, or water facilities were identified at this location.

079B00018N

An overhead electric facility is located approximately 20' upstream and 30' high. No telephone, gas, or water facilities were identified at this location.

BEFORE YOU DIG

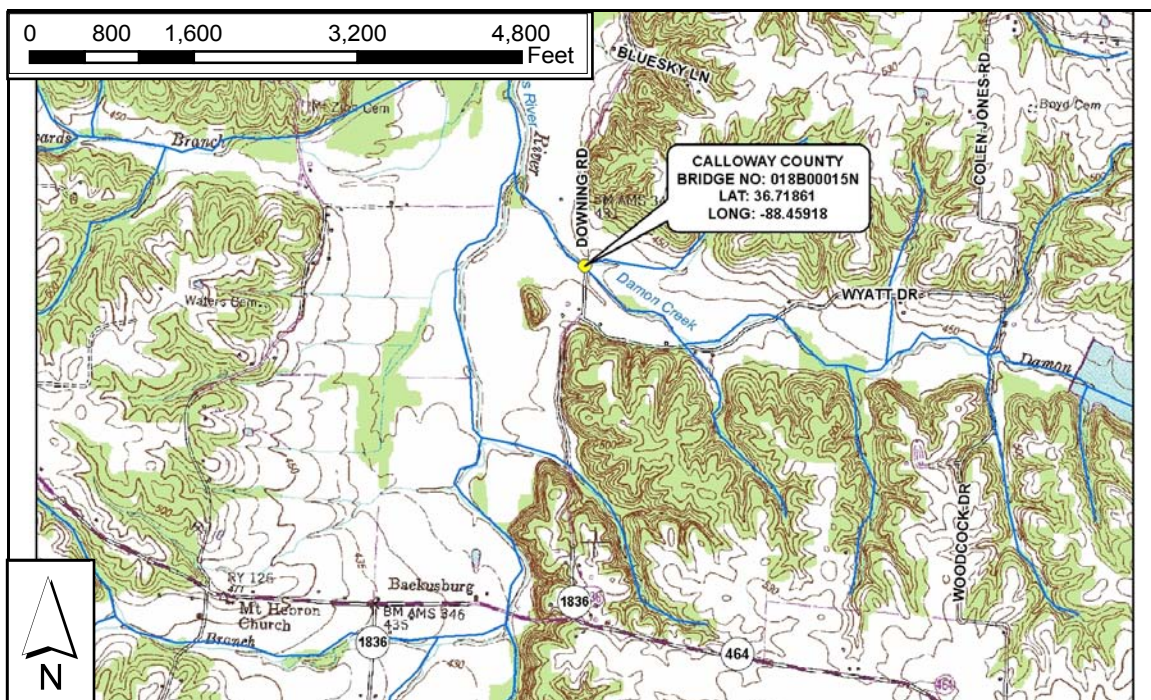
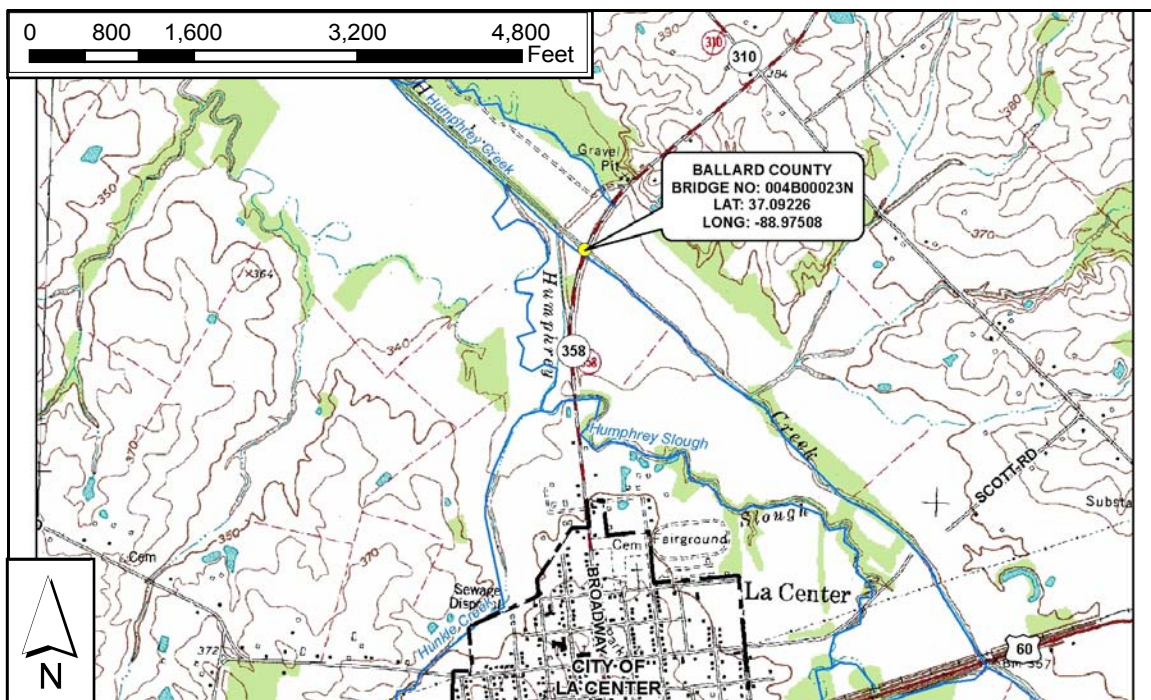
The contractor is instructed to call 811 or 1-800-752-6007 to reach KY 811, the one-call system, for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware 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 who 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.



KYTC Scour Countermeasures Program Package A



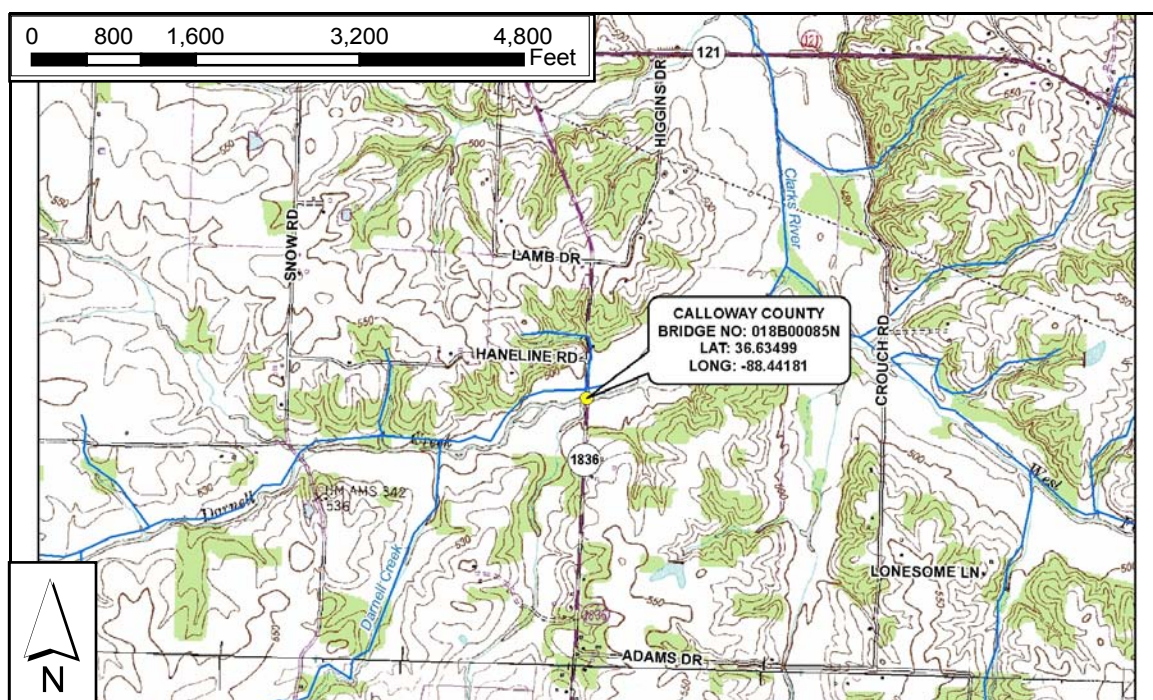
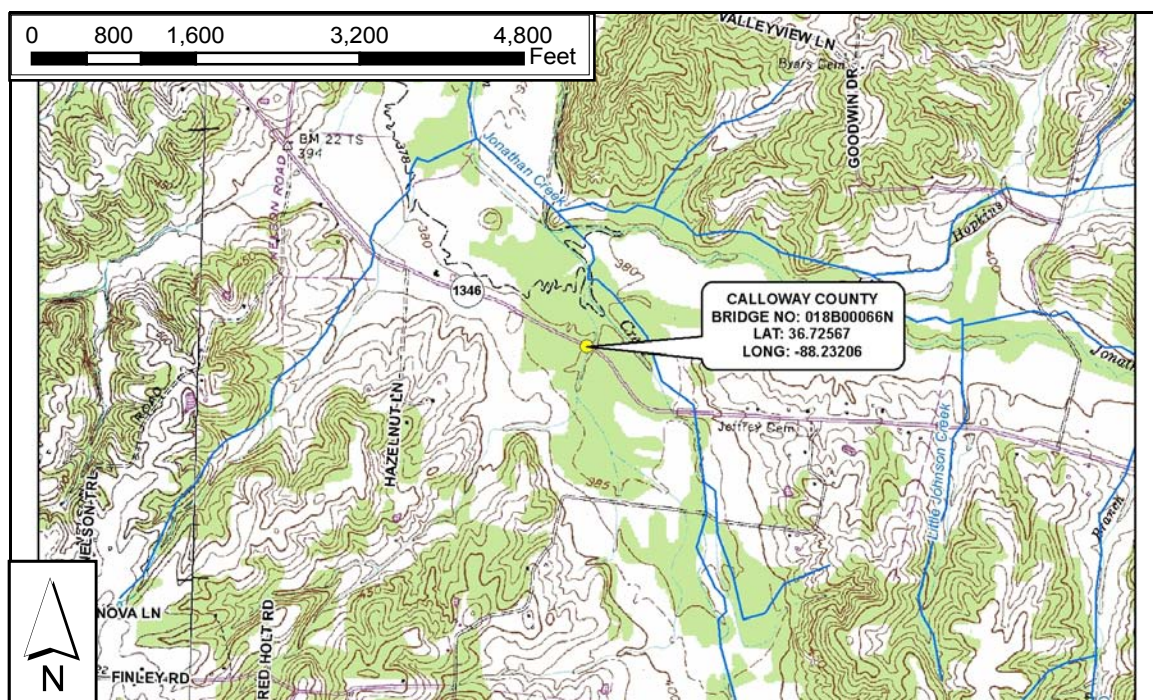
SITE LOCATION MAPS





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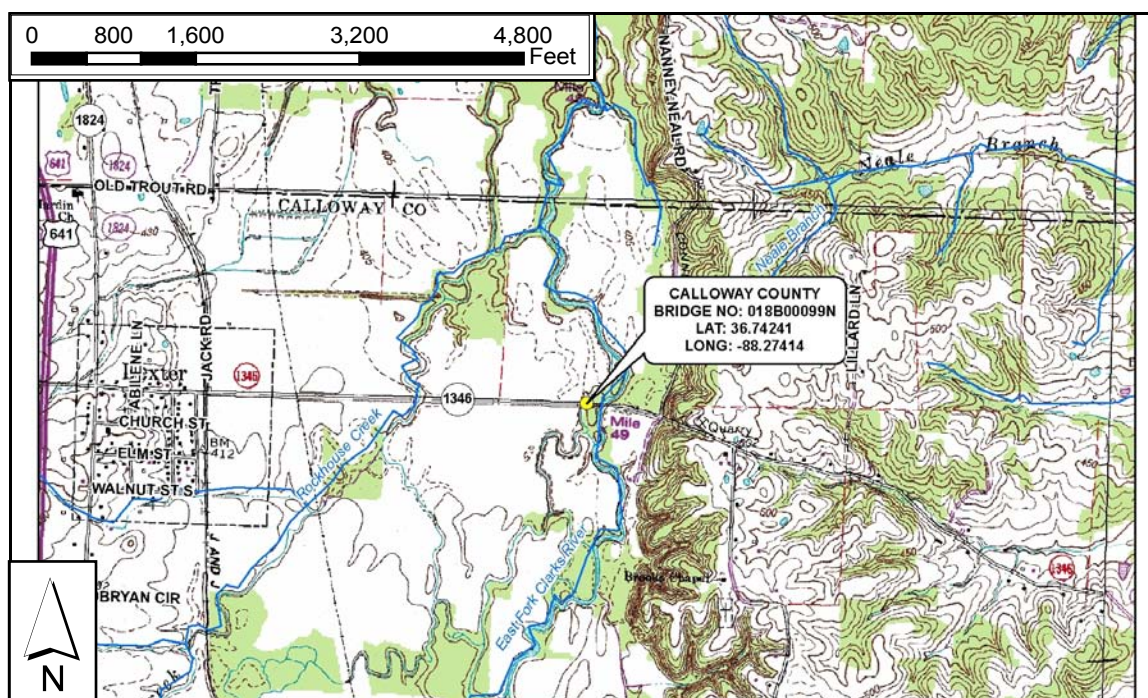
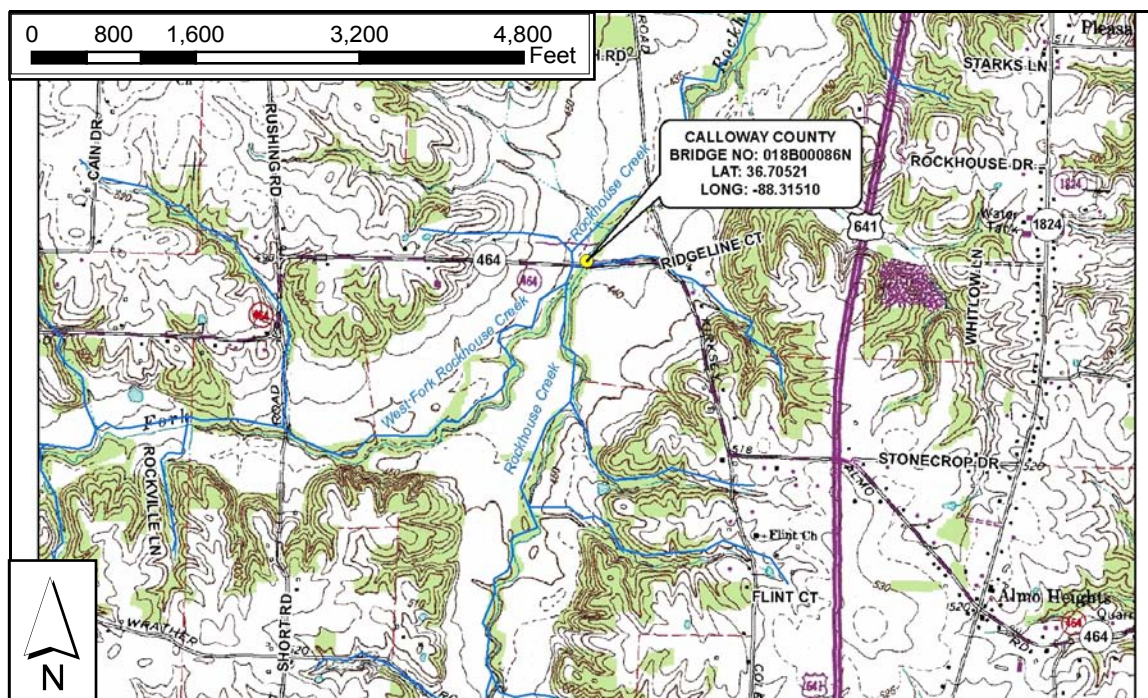
KYTC Scour Countermeasures Program Package A



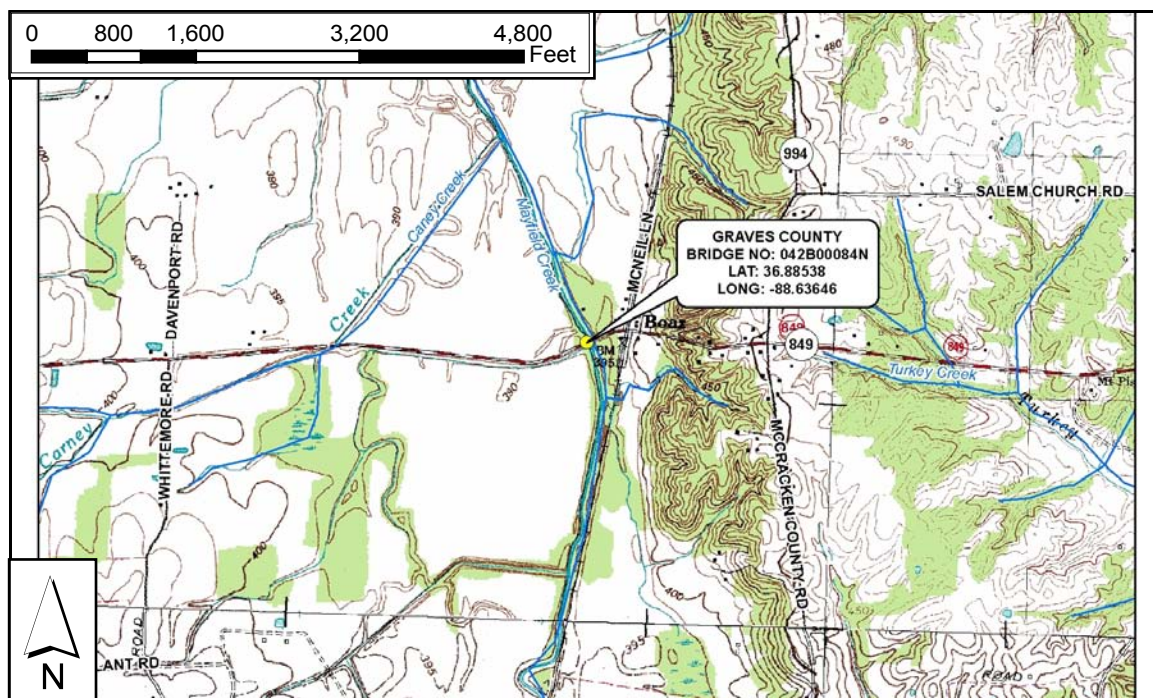
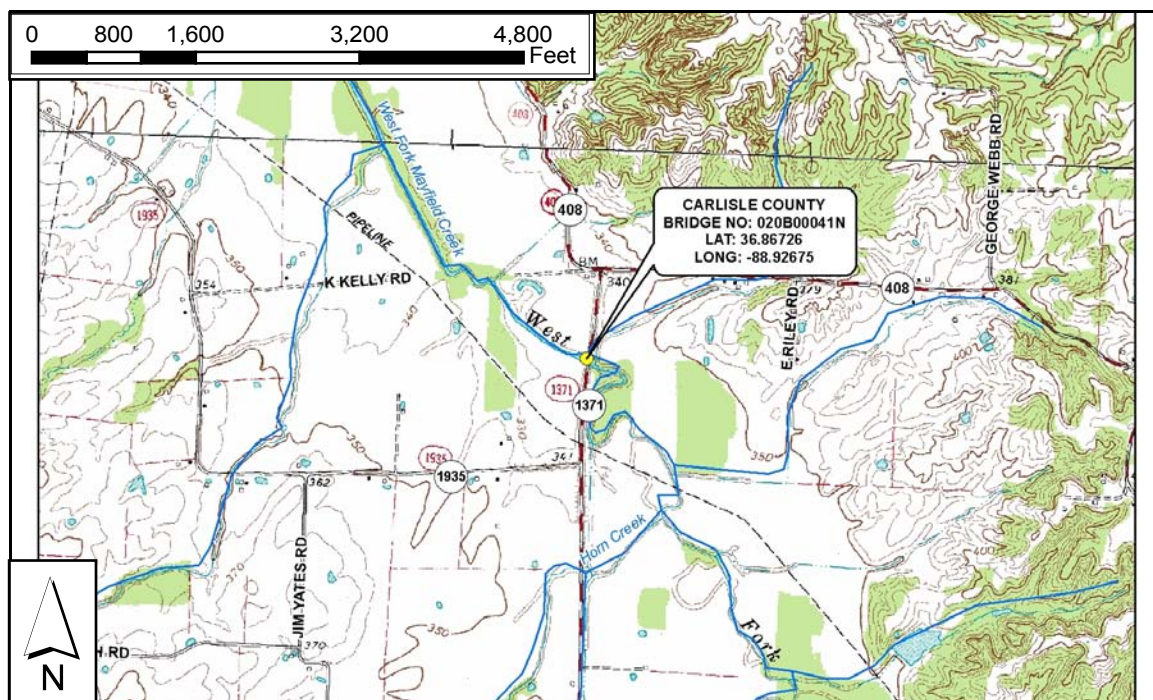


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KYTC Scour Countermeasures Program Package A



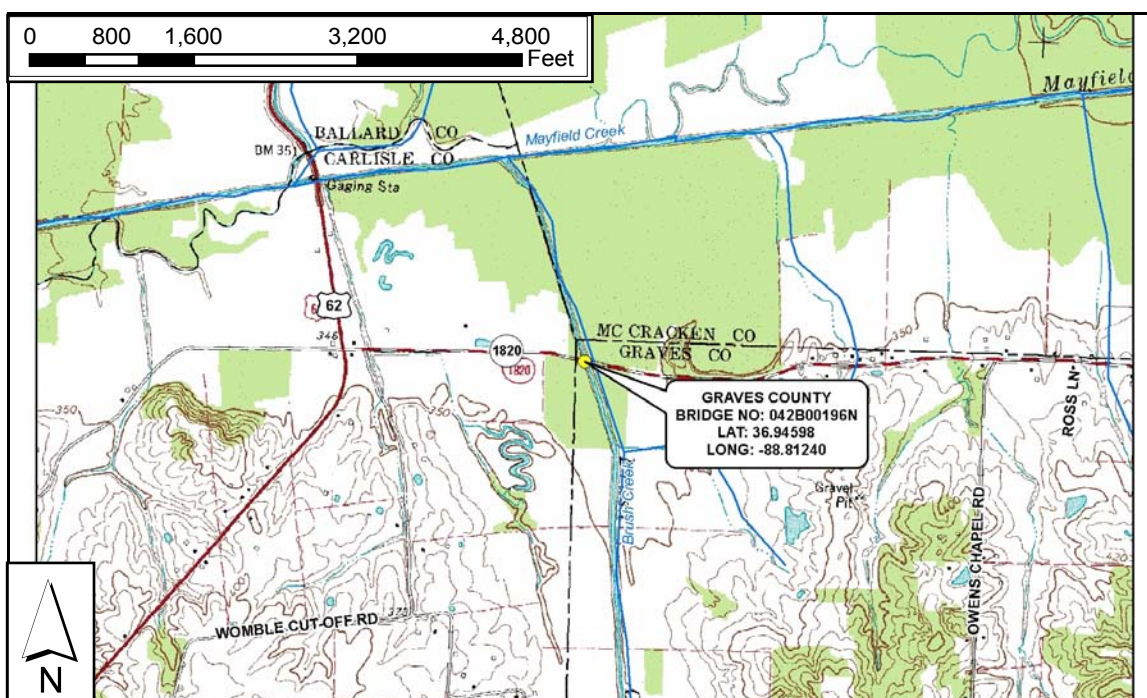
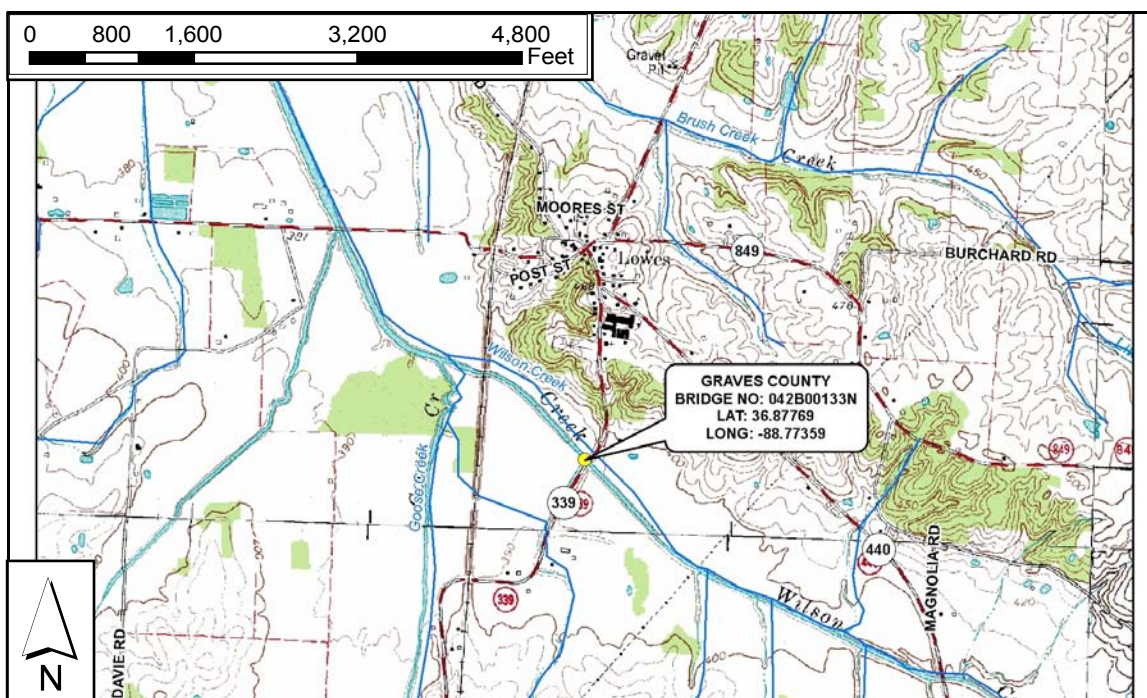
KYTC Scour Countermeasures Program Package A





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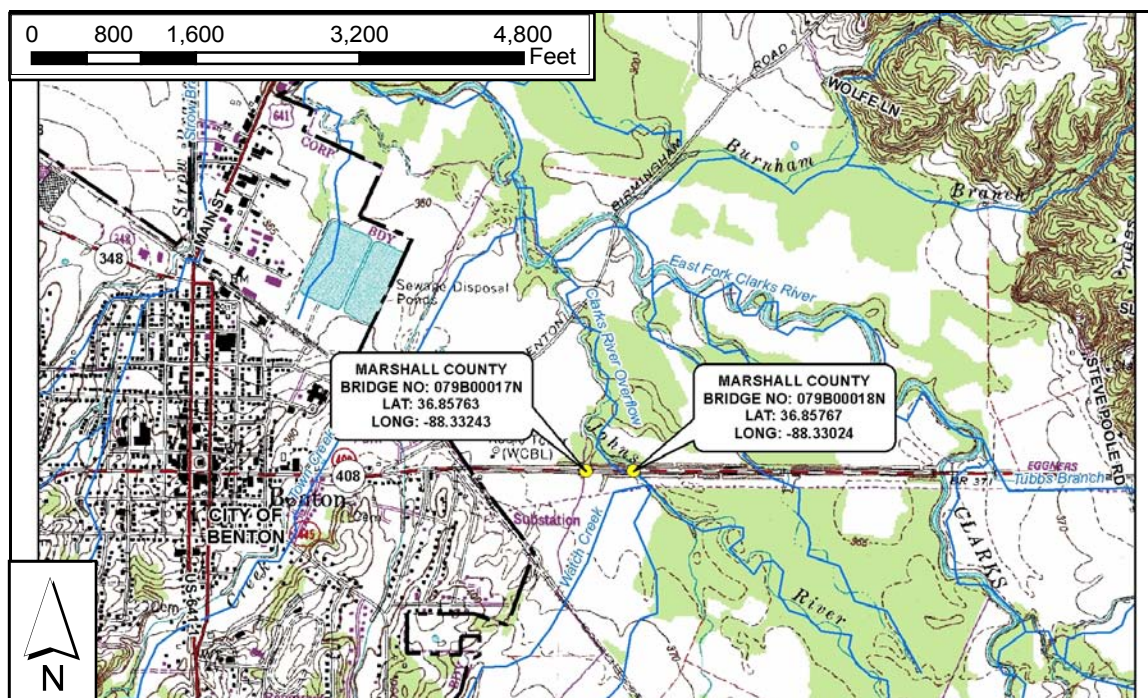
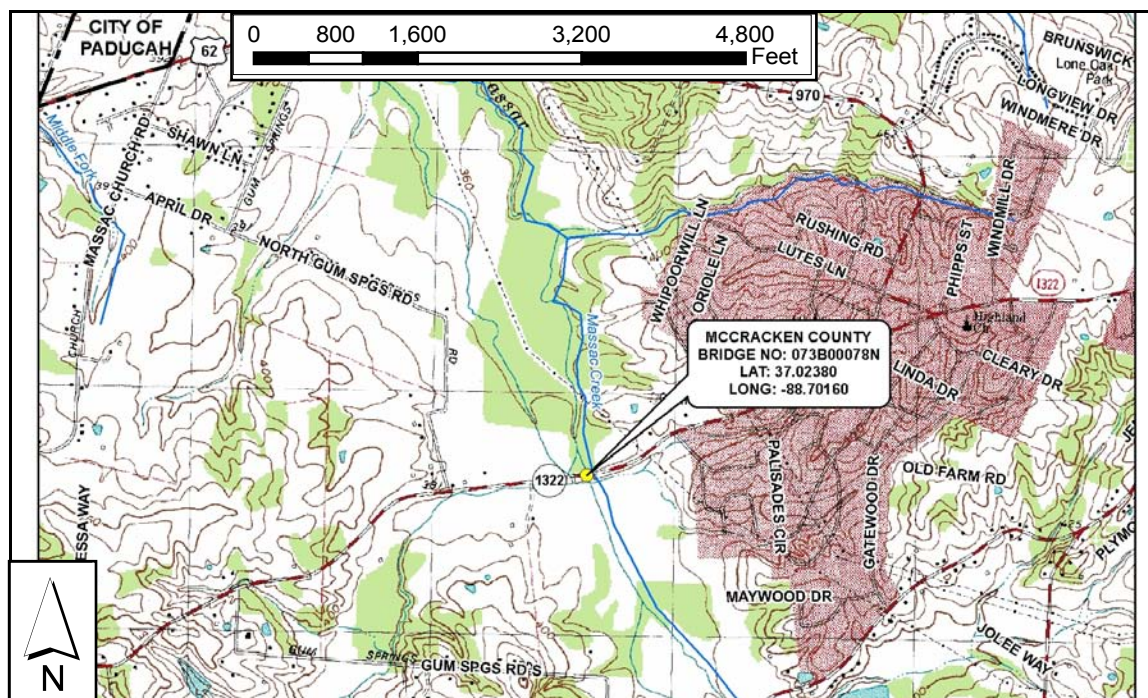
KYTC Scour Countermeasures Program Package A





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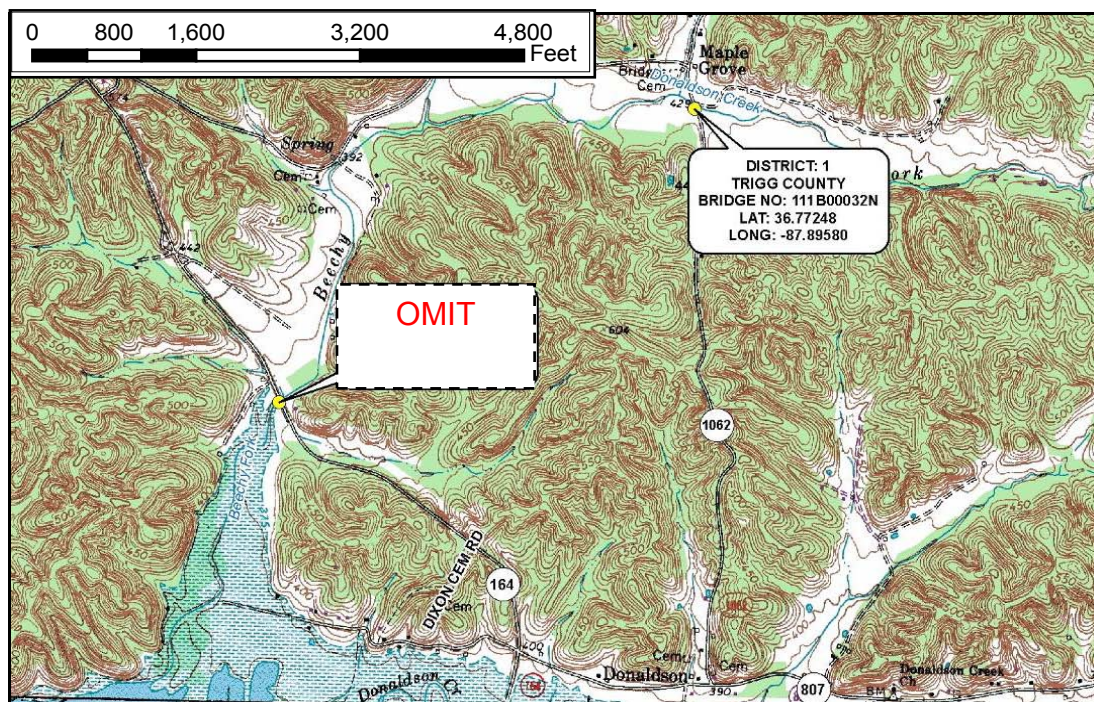
KYTC Scour Countermeasures Program Package A





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KYTC Scour Countermeasures Program Package A



MATERIAL SUMMARY

CONTRACT ID: 112911

BRO 3000 (855)

PES NO: MB00403581101

SCOUR COUNTERMEASURES-KY 358 OVER HUMPHREY'S CREEK BALLARD COUNTY-KY 358 OVER HUMPHREY'S CREEK (MP 9.344)

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|--------------------------------------|----------|------|
| 0030 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 11.00 | TON |
| 0060 | 02484 | CHANNEL LINING CLASS III | 300.00 | TON |
| 0050 | 02596 | FABRIC-GEOTEXTILE TYPE I | 140.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC KY 358 | 1.00 | LS |
| 0040 | 05985 | SEEDING AND PROTECTION | 50.00 | SQYD |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 38.00 | CUYD |
| 0070 | 02569 | DEMOBILIZATION | 1.00 | LS |

BRO 3000 (855)

PES NO: MB01804641101

SCOUR COUNTERMEASURES-KY 464 OVER ROCKHOUSE CREEK CALLOWAY COUNTY-KY 464 OVER ROCKHOUSE CREEK (MP 10.248) B00086N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0030 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 32.00 | TON |
| 0060 | 02484 | CHANNEL LINING CLASS III | 800.00 | TON |
| 0050 | 02596 | FABRIC-GEOTEXTILE TYPE I | 390.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B86N | 1.00 | LS |
| 0040 | 05985 | SEEDING AND PROTECTION | 250.00 | SQYD |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 5.00 | CUYD |
| 0070 | 02569 | DEMOBILIZATION | 1.00 | LS |

BRO 3000 (855)

PES NO: MB01813461101

SCOUR COUNTERMEASURES-KY 1346 OVER JONATHAN CREEK CALLOWAY COUNTY-KY 1346 OVER JONATHAN CREEK (MP 4.076) B00066N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0030 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 14.00 | TON |
| 0060 | 02484 | CHANNEL LINING CLASS III | 60.00 | TON |
| 0050 | 02596 | FABRIC-GEOTEXTILE TYPE I | 85.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B66N | 1.00 | LS |
| 0040 | 05985 | SEEDING AND PROTECTION | 50.00 | SQYD |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 66.00 | CUYD |
| 0070 | 02569 | DEMOBILIZATION | 1.00 | LS |

MATERIAL SUMMARY

CONTRACT ID: 112911

BRO 3000 (855)

PES NO: MB01813461102

SCOUR COUNTERMEASURES-KY 1346 OVER CLARK'S RIVER CALLOWAY COUNTY-KY 1346 OVER CLARK'S RIVER (MP 1.380) B00099N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0030 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 5.00 | TON |
| 0060 | 02484 | CHANNEL LINING CLASS III | 115.00 | TON |
| 0050 | 02596 | FABRIC-GEOTEXTILE TYPE I | 125.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B99N | 1.00 | LS |
| 0040 | 05985 | SEEDING AND PROTECTION | 50.00 | SQYD |
| 0070 | 02569 | DEMOBILIZATION | 1.00 | LS |

BRO 3000 (855)

PES NO: MB01818361101

SCOUR COUNTERMEASURES-KY 1836 OVER DAMON CREEK CALLOWAY COUNTY-KY 1836 OVER DAMON CREEK (MP 8.308) B00015N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0030 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 1.00 | TON |
| 0110 | 02267 | REMOVE & RESET FENCE | 40.00 | LF |
| 0060 | 02484 | CHANNEL LINING CLASS III | 24.00 | TON |
| 0050 | 02596 | FABRIC-GEOTEXTILE TYPE I | 15.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B15N | 1.00 | LS |
| 0100 | 03235 | EXCAVATION AND BACKFILL | 10.00 | CUYD |
| 0040 | 05985 | SEEDING AND PROTECTION | 50.00 | SQYD |
| 0080 | 08100 | CONCRETE-CLASS A | 53.00 | CUYD |
| 0090 | 08150 | STEEL REINFORCEMENT | 260.00 | LB |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 20.00 | CUYD |
| 0070 | 02569 | DEMOBILIZATION | 1.00 | LS |

BRO 3000 (855)

PES NO: MB01818361102

SCOUR COUNTERMEASURES-KY 1836 OVER DARNELL CREEK CALLOWAY COUNTY-KY 1836 OVER DARNELL CREEK (MP 2.180) B00085N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0030 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 2.50 | TON |
| 0060 | 02484 | CHANNEL LINING CLASS III | 75.00 | TON |
| 0050 | 02596 | FABRIC-GEOTEXTILE TYPE I | 35.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B85N | 1.00 | LS |
| 0040 | 05985 | SEEDING AND PROTECTION | 50.00 | SQYD |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 13.00 | CUYD |
| 0070 | 02569 | DEMOBILIZATION | 1.00 | LS |

MATERIAL SUMMARY

CONTRACT ID: 112911

BRO 3000 (855) PES NO: MB02013711101
SCOUR COUNTERMEASURES-KY 1371 OVER MAYFIELD CREEK CARLISLE COUNTY-KY 1371 OVER
MAYFIELD CREEK (MP 6.775) B00041N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0030 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 30.00 | TON |
| 0060 | 02484 | CHANNEL LINING CLASS III | 325.00 | TON |
| 0050 | 02596 | FABRIC-GEOTEXTILE TYPE I | 135.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B41N | 1.00 | LS |
| 0040 | 05985 | SEEDING AND PROTECTION | 50.00 | SQYD |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 210.00 | CUYD |
| 0070 | 02569 | DEMOBILIZATION | 1.00 | LS |

BRO 3000 (855) PES NO: MB04203391101
SCOUR COUNTERMEASURES-KY 339 OVER WILSON CREEK GRAVES COUNTY-KY 339 OVER WILSON
CREEK (MP 32.250) B00133N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|-------------------------------------|----------|------|
| 0050 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 11.00 | TON |
| 0030 | 02484 | CHANNEL LINING CLASS III | 210.00 | TON |
| 0040 | 02596 | FABRIC-GEOTEXTILE TYPE I | 205.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B133N | 1.00 | LS |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 413.00 | CUYD |
| 0060 | 02569 | DEMOBILIZATION | 1.00 | LS |

BRO 3000 (855) PES NO: MB04208491101
SCOUR COUNTERMEASURES-KY 849 OVER MAYFIELD CREEK GRAVES COUNTY-KY 849 OVER MAYFIELD
CREEK (MP 10.765) B00084N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B84N | 1.00 | LS |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 1,500.00 | CUYD |
| 0070 | 02569 | DEMOBILIZATION | 1.00 | LS |

BRO 3000 (855) PES NO: MB04218201101
SCOUR COUNTERMEASURES-KY 1820 OVER BRUSH CREEK GRAVES COUNTY-KY 1820 OVER BRUSH
CREEK (MP 0.027) B00196N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|-------------------------------------|----------|------|
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B196N | 1.00 | LS |
| 0030 | 05985 | SEEDING AND PROTECTION | 50.00 | SQYD |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 89.00 | CUYD |
| 0040 | 02569 | DEMOBILIZATION | 1.00 | LS |

MATERIAL SUMMARY

CONTRACT ID: 112911

BRO 3000 (855) PES NO: MB07313221101
SCOUR COUNTERMEASURES-KY 1322 OVER DRAINAGE DITCH MCCracken COUNTY-KY 1322 OVER
DRAINAGE DITCH (MP 6.565) B00078N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0040 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 275.00 | TON |
| 0090 | 02484 | CHANNEL LINING CLASS III | 305.00 | TON |
| 0080 | 02596 | FABRIC-GEOTEXTILE TYPE I | 350.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B78N | 1.00 | LS |
| 0100 | 03235 | EXCAVATION AND BACKFILL | 115.00 | CUYD |
| 0030 | 05985 | SEEDING AND PROTECTION | 50.00 | SQYD |
| 0060 | 08100 | CONCRETE-CLASS A | 44.00 | CUYD |
| 0050 | 08104 | CONCRETE-CLASS AA | 16.00 | CUYD |
| 0070 | 08150 | STEEL REINFORCEMENT | 2,890.00 | LB |
| 0110 | 21600EN | SHEET PILING | 400.00 | LF |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 57.00 | CUYD |
| 0120 | 02569 | DEMOBILIZATION | 1.00 | LS |

BRO 3000 (855) PES NO: MB07904081101
SCOUR COUNTERMEASURES-KY 408 OVER MAYFIELD CREEK MARSHALL COUNTY-KY 408 OVER
MAYFIELD CREEK (MP 8.832) B00017N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0030 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 8.50 | TON |
| 0070 | 02483 | CHANNEL LINING CLASS II | 20.00 | TON |
| 0060 | 02484 | CHANNEL LINING CLASS III | 256.00 | TON |
| 0050 | 02596 | FABRIC-GEOTEXTILE TYPE I | 105.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B17N | 1.00 | LS |
| 0040 | 05985 | SEEDING AND PROTECTION | 200.00 | SQYD |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 5.00 | CUYD |
| 0080 | 02569 | DEMOBILIZATION | 1.00 | LS |

BRO 3000 (855) PES NO: MB07904081102
SCOUR COUNTERMEASURES-KY 408 OVER CLARK'S RIVER MARSHALL COUNTY-KY 408 OVER CLARK'S
RIVER (MP 8.952) B00018N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0020 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 19.00 | TON |
| 0050 | 02484 | CHANNEL LINING CLASS III | 255.00 | TON |
| 0040 | 02596 | FABRIC-GEOTEXTILE TYPE I | 230.00 | SQYD |
| 0010 | 02650 | MAINTAIN & CONTROL TRAFFIC B18N | 1.00 | LS |
| 0030 | 05985 | SEEDING AND PROTECTION | 50.00 | SQYD |
| 0060 | 02569 | DEMOBILIZATION | 1.00 | LS |

MATERIAL SUMMARY

CONTRACT ID: 112911

BRO 3000 (855)

PES NO: MB11110621101

SCOUR COUNTERMEASURES-KY 1062 OVER DONALDSON CREEK TRIGG COUNTY-KY 1062 OVER
DONALDSON CREEK (MP 1.532) B00032N

| LINE NO | BID CODE | DESCRIPTION | QUANTITY | UNIT |
|---------|----------|------------------------------------|----------|------|
| 0040 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 286.00 | TON |
| 0080 | 02484 | CHANNEL LINING CLASS III | 185.00 | TON |
| 0070 | 02596 | FABRIC-GEOTEXTILE TYPE I | 155.00 | SQYD |
| 0020 | 02650 | MAINTAIN & CONTROL TRAFFIC B32N | 1.00 | LS |
| 0090 | 03235 | EXCAVATION AND BACKFILL | 60.00 | CUYD |
| 0030 | 05985 | SEEDING AND PROTECTION | 100.00 | SQYD |
| 0050 | 08100 | CONCRETE-CLASS A | 36.00 | CUYD |
| 0060 | 08150 | STEEL REINFORCEMENT | 1,600.00 | LB |
| 0100 | 21600EN | SHEET PILING | 400.00 | LF |
| 0010 | 24004EC | DRIFT/SEDIMENT REMOVAL | 6.00 | CUYD |
| 0110 | 02569 | DEMOBILIZATION | 1.00 | LS |



KYTC Scour Countermeasures Program Package A



SPECIAL NOTE FOR TRAFFIC CONTROL

I. TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the 2008 Standard Specifications, Section 112. 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.

II. SIGNS

Contrary to Section 112.04.02, no signs will be measured for payment but will be incidental to Maintain and Control Traffic.

The Contractor is to install warning signs for wide loads in advance of the bridge under the direction of the Engineer. The Department will not measure installation, maintenance, or removal for payment, and will consider these incidentals to Maintain and Control Traffic.

III. TEMPORARY PAVEMENT STRIPING

Temporary Pavement Striping will not be required. Duration of lane closures shall not exceed three days.

IV. PROJECT PHASING & CONSTRUCTION PROCEDURES

Maintain, as a minimum one lane of traffic at all times in accordance with Standard Drawing No. TTC-100-01. The clear lane width required is 12'-0".

All lane closures shall be left in place only during daylight hours while the Contractor is actively working on the project. Total road closures will be allowed only when absolutely necessary to complete construction and then shall be limited to 10 minutes maximum before opening at least one lane long enough to clear all queued vehicles from both directions. In the event that an emergency vehicle or school bus arrives in the queue, the Contractor shall immediately adjust his operation to allow this vehicle to pass through the work zone as quickly as possible.

Lane closures will not be permitted Monday through Friday from 6:30 am to 8:00 am and from 4:30 pm to 6:00 pm.

Lane closures will not be permitted on these days:
Easter Weekend (Thursday-Sunday)



KYTC Scour Countermeasures Program Package A



Memorial Day Weekend (Friday-Monday)
Independence Day, when July 4th is on Tuesday, Wednesday, or Thursday; or
Independence Day Weekend, when July 4th is on Monday (Saturday-Monday)
or Friday (Friday-Sunday)
Labor Day Weekend (Friday-Monday)
Thanksgiving Day Weekend (Thursday-Sunday)
Christmas/New Years (December 24-January 2)

V. VARIABLE MESSAGE SIGNS

If deemed necessary by the Engineer, variable message signs will be installed, operated, and maintained by the Department.

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to the *Standard Specifications for Road and Bridge Construction, Edition of 2004*, and *Standard Drawings, Edition of 2000* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2008* and *Standard Drawings, Edition of 2003 with the 2008 Revision*.

**Supplemental Specifications to The Standard Specifications
for Road and Bridge Construction, 2008 Edition**
(Effective with the July 15, 2011 Letting)

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| SUBSECTION: REVISION: | 101.02 Abbreviations. Insert the following abbreviation and text into the section: KEPSC Kentucky Erosion Prevention and Sediment Control |
| SUBSECTION: REVISION: | 101.03 Definitions. Replace the definition for Specifications – <i>Special Provisions</i> with the following: Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to an individual project. |
| SUBSECTION: REVISION: | 102.03 Contents of the Bid Proposal Form. Replace the first sentence of the first paragraph with the following: The Bid Proposal form will be available on the Department internet website (http://transportation.ky.gov/contract/). Delete the second paragraph. Delete the last paragraph. |
| SUBSECTION: REVISION: | 102.04 Issuance of Bid Proposal Form. Replace Heading with the following: 102.04 Bidder Registration. Replace the first sentence of the first paragraph with the following: The Department reserves the right to disqualify or refuse to place a bidder on the eligible bidder's list for a project for any of the following reasons: Replace the last sentence of the subsection with the following: The Department will resume placing the bidder on the eligible bidder's list for projects after the bidder improves his operations to the satisfaction of the State Highway Engineer. |
| SUBSECTION: REVISION: | 102.06 Examination of Plans, Specifications, Special Provisions, Special Notes, and Site of Work. Replace the first paragraph with the following: Examine the site of the proposed work, the Bid Proposal, Plans, specifications, contract forms, and bulletins and addendums posted to the Department's website and the Bid Express Bidding Service Website before submitting the Bid Proposal. The Department considers the submission of a Bid Proposal prima facie evidence that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the Contract. |
| SUBSECTION: REVISION: | 102.07.01 General. Replace the first sentence with the following: Submit the Bid Proposal on forms furnished on the Bid Express Bidding Service website (www.bidx.com). Replace the first sentence of the third paragraph with the following: Bid proposals submitted shall use an eligible Digital ID issued by Bid Express. |

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| SUBSECTION: REVISION: | <p>102.07.02 Computer Bidding. Replace the first paragraph with the following:</p> <p>Subsequent to registering for a specific project, use the Department's Expedite Bidding Program on the internet website of the Department of Highways, Division of Construction Procurement (http://transportation.ky.gov/contract/). Download the bid file from the Bid Express Bidding Service Website to prepare a Bid Proposal for submission to the Department. Submit Bid Proposal electronically through Bid Express Bidding Service.</p> <p>Delete the second and third paragraph.</p> |
| SUBSECTION: REVISION: | <p>102.08 Irregular Bid Proposals. Delete the following from the first paragraph: 4) fails to submit a disk created from the Highway Bid Program.</p> <p>Replace the second paragraph with the following: The Department will consider Bid Proposals irregular and may reject them for the following reasons:</p> <ol style="list-style-type: none">1) when there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the Bid Proposal incomplete, indefinite, or ambiguous as to its meaning; or2) when the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a Contract pursuant to an award; or3) any failure to comply with the provisions of Subsection 102.07; or4) Bid Proposals in which the Department determines that the prices are unbalanced; or when the sum of the total amount of the Bid Proposal under consideration exceeds the bidder's Current Capacity Rating. |
| SUBSECTION: REVISION: | <p>102.09 Bid Proposal Guaranty. Insert the following after the first sentence:</p> <p>Bid Proposals must have a bid proposal guaranty in the amount indicated in the bid proposal form accompany the submittal. A guaranty in the form of a paper bid bond, cashier's check, or certified check in an amount no less than the amount indicated on the submitted electronic bid is required when the electronic bid bond was not utilized with the Bid Express Bidding Service. Paper bid bonds must be delivered to the Division of Construction Procurement prior to the time of the letting.</p> |
| SUBSECTION: REVISION: | <p>102.10 Delivery of Bid Proposals. Replace paragraph with the following:</p> <p>Submit all Bid Proposals prior to the time specified in the Notice to Contractors. All bids shall be submitted electronically using Bid Express Bidding Services. Electronically submitted bids must be done in accordance with the requirements of the Bid Express Bidding Service.</p> |
| SUBSECTION: REVISION: | <p>102.11 Withdrawal or Revision of Bid Proposals. Replace the paragraph with the following:</p> <p>Bid Proposals can be withdrawn in accordance the requirements of the Bid Express Bidding Service prior to the time of the Letting.</p> |

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| SUBSECTION: REVISION: | <p>102.13 Public Opening of Bid Proposals. Replace Heading with the following: 102.13 Public Announcement of Bid Proposals.</p> <p>Replace the paragraph with the following: The Department will publicly announce all Bid Proposals at the time indicated in the Notice to Contractors.</p> |
| SUBSECTION: REVISION: | <p>103.02 Award of Contract. Replace the first sentence of the third paragraph with the following:</p> <p>The Department will normally award the Contract within 10 working days after the date of receiving Bid Proposals unless the Department deems it best to hold the Bid Proposals of any or all bidders for a period not to exceed 60 calendar days for final disposition of award.</p> |
| SUBSECTION: REVISION: | <p>105.02 Plans and Working Drawings. Insert the following after the fourth paragraph:</p> <p>Submit electrical shop drawings, design data, and descriptive literature for materials in electronic format to the Division of Traffic Operations for approval. Drawings and literature shall be submitted for lighting and signal components. Notify the Engineer when submitting information to the Division of Traffic Operations. Do not begin work until shop drawings are approved.</p> <p>Submit shop drawings for traffic counting equipment and materials in electronic format to the Engineer or the Division of Planning. Notify the Engineer when submitting information directly to the Division of Planning. Do not begin work until shop drawings are reviewed and approved.</p> |
| SUBSECTION: REVISION: | <p>105.03 Record Plans. Replace the section with the following:</p> <p>Record Plans are those reproductions of the original Plans on which the accepted Bid Proposal was based and, and signed by a duly authorized representative of the Department. The Department will make these plans available for inspection in the Central Office at least 24 hours prior to the time of opening bids and up to the time of letting of a project or projects. The quantities appearing on the Record Plans are the same as those on which Bid Proposals are received. The Department will use these Record Plans as the controlling plans in the prosecution of the Contract. The Department will not make any changes on Record Plans subsequent to their issue unless done so by an approved contract modification. The Department will make 2 sets of Record Plans for each project, and will maintain one on file in the Central Office and one on file in the District Office. The Department will furnish the Contractor with the following: 1 full size, 2 half size and an electronic file copy of the Record Plans at the Pre-Construction conference.</p> |

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| SUBSECTION: REVISION: | <p>105.12 Final Inspection and Acceptance of Work.</p> <p>Insert the following paragraphs after the first paragraph:</p> <p>Notify the Engineer when all electrical items are complete. A notice of the electrical work completion shall be made in writing to the Contractor. Electrical items will be inspected when the electrical work is complete and are not subject to waiting until the project as a whole has been completed. The Engineer will notify the Division of Traffic Operations within 3 days that all electrical items are complete and ready for a final inspection. A final inspection will be completed within 90 days after the Engineer notifies the Division of Traffic Operations of the electrical work completion.</p> <p>Energize all electrical items prior to notifying the Engineer that all electrical items are complete. Electrical items must remain operational until the Division of Traffic Operations has inspected and accepted the electrical portion of the project. Payment for the electrical service is the responsibility of the Contractor from the time the electrical items are energized until the Division of Traffic Operations has accepted the work.</p> <p>Complete all corrective work within 90 calendar days of receiving the original electrical inspection report. Notify the Engineer when all corrective work is complete. The Engineer will notify the Division of Traffic Operations that the corrective work has been completed and the project is ready for a follow-up inspection. Upon re-inspection, if additional corrective work is required, complete within the same 90 calendar day allowance. The Department will not include time between completion of the corrective work and the follow up electrical inspection(s). The 90 calendar day allowance is cumulative regardless of the number of follow-up electrical inspections required.</p> <p>The Department will assume responsibility for the electrical service on a project once the Division of Traffic Operations gives final acceptance of the electrical items on the project. The Department will also assume routine maintenance of those items. Any damage done to accepted electrical work items by other Contractors shall be the responsibility of the Prime Contractor. The Department will not be responsible for repairing damage done by other contractors during the construction of the remaining project.</p> <p>Failure to complete the electrical corrective work within the 90 calendar day allowance will result in penalties assessed to the project. Penalties will be assessed at ½ the rate of liquidated damages established for the contract.</p> <p>Replace the following in the second sentence of the second paragraph:</p> <p>Replace Section 213 with Section 212.</p> <p>Delete the fifth paragraph from the section.</p> |
| SUBSECTION: REVISION: | <p>105.13 Claim Resolution Process.</p> <p>Replace the last sentence of the 3. Bullet with the following:</p> <p>If the Contractor did not submit an as-bid schedule at the Pre-Construction Meeting or a written narrative in accordance with Subsection 108.02, the Cabinet will not consider the claim for delay.</p> <p>Delete the last paragraph from the section.</p> |

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| <p>SUBSECTION: REVISION:</p> | <p>106.04 Buy America Requirement. Replace the section with the following:</p> <p>106.04 Buy America Requirement. Follow the “Buy America” provisions as required by Title 23 Code of Federal Regulations § 635.410. Except as expressly provided herein all manufacturing processes of steel or iron materials including but not limited to structural steel, guardrail materials, corrugated steel, culvert pipe, structural plate, prestressing strands, and steel reinforcing bars shall occur in the United States of America, including the application of:</p> <ul style="list-style-type: none"> • Coating, • Galvanizing, • Painting, and • Other coating that protects or enhances the value of steel or iron products. <p>The following are exempt, unless processed or refined to include substantial amounts of steel or iron material, and may be used regardless of source in the domestic manufacturing process for steel or iron material:</p> <ul style="list-style-type: none"> • Pig iron, • Processed, pelletized, and reduced iron ore material, or • Processed alloys. <p>The Contractor shall submit a certification stating that all manufacturing processes involved with the production of steel or iron materials occurred in the United States.</p> <p>Produce, mill, fabricate, and manufacture in the United States of America all aluminum components of bridges, tunnels, and large sign support systems, for which either shop fabrication, shop inspection, or certified mill test reports are required as the basis of acceptance by the Department.</p> <p>Use foreign materials only under the following conditions:</p> <ol style="list-style-type: none"> 1) When the materials are not permanently incorporated into the project; or 2) When the delivered cost of such materials used does not exceed 0.1 percent of the total Contract amount or \$2,500.00, whichever is greater. <p>The Contractor shall submit to the Engineer the origin and value of any foreign material used.</p> |
| <p>SUBSECTION: REVISION:</p> | <p>106.10 Field Welder Certification Requirements. Insert the following sentence before the first sentence of the first paragraph:</p> <p>All field welding must be performed by a certified welder unless otherwise noted.</p> |
| <p>SUBSECTION: REVISION:</p> | <p>108.02 Progress Schedule. Insert the following prior to the first paragraph:</p> <p>Specification 108.02 applies to all Cabinet projects except the following project types:</p> <ul style="list-style-type: none"> • Right of Way Mowing and/or Litter Removal • Waterborne Paint Striping • Projects that contain Special Provision 82 • Projects that contain the Special Note for CPM Scheduling <p>Insert the following paragraph after paragraph two:</p> <p>Working without the submittal of a Written Narrative is violation of this specification and additionally voids the Contractor’s right to delay claims.</p> <p>Insert the following paragraph after paragraph six:</p> <p>The submittal of bar chart or Critical Path Method schedule does not relieve the Contractor’s requirement to submit a Written Narrative schedule.</p> |

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| | <p>Insert the following at the beginning of the first paragraph of A) Written Narrative.:</p> <p>Submit the Written Narrative Schedule using form TC 63-50 available at the Division of Construction's website (http://www.transportation.ky.gov/construction/ResCenter/ResCenter.htm).</p> <p>Replace Part A) Written Narrative 1. And 2. with the following:</p> <ol style="list-style-type: none"> 1. Provide a description that includes how the Contractor will sequence and stage the work, how the Contractor plans to maintain and control traffic being specific and detailed, and what equipment and crew sizes are planned to execute the work. 2. Provide a list of project milestones including, if applicable, winter shut-downs, holidays, or special events. The Contractor shall describe how these milestones and other dates effect the prosecution of the work. Also, include start date and completion date milestones for the contract, each project if the contract entails multiple projects, each phase of work, site of work, or segment of work as divided in the project plans, proposal, or as subdivided by the Contractor. |
| SUBSECTION: REVISION: | <p>109.07.01 Liquid Asphalt.</p> <p>Add the following to the Adjustable Contract Items:</p> <ul style="list-style-type: none"> • Stone Matrix Asphalt for Base • Stone Matrix Asphalt for Surface |
| SUBSECTION: REVISION: | <p>110.01 Mobilization.</p> <p>Replace paragraph three with the following:</p> <p>Do not bid an amount for Mobilization that exceeds 5 percent of the sum of the total amounts bid for all items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposals that are in excess of this amount down to 5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for Mobilization is less than 5 percent, or the Department will award the Contract for the adjusted bid amount of 5 percent when the amount bid for Mobilization is greater than 5 percent. If any errors in unit bid prices for other Contract items in a Contractor's Bid Proposal are discovered after bid opening and such errors reduce the total amount bid for all other items, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives, so that the percent bid for Mobilization is larger than 5 percent, the Department will adjust the amount bid for Mobilization to 5 percent of the sum of the corrected total bid amounts.</p> |
| SUBSECTION: REVISION: | <p>110.02 Demobilization.</p> <p>Replace the third paragraph with the following:</p> <p>Bid an amount for Demobilization that is a minimum of \$1,000 or 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposal that is less than this amount up to \$1,000 or 1.5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for demobilization exceeds 1.5 percent, or the Department will award the Contract for the adjusted bid amount when the amount bid for demobilization is less than the minimum of \$1,000 or less than 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives.</p> |
| SUBSECTION: REVISION: | <p>110.04 Payment.</p> <p>Insert the following paragraph following the demobilization payment schedule (4th paragraph):</p> <p>The Department will withhold an amount equal to \$1,000 for demobilization, regardless of the schedule listed above. The \$1,000 withheld for demobilization will be paid when the final estimate is paid.</p> |

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| SUBSECTION: REVISION: | <p>112.03.01 General Traffic Control. Replace paragraph three with the following:</p> <p>All flaggers shall be trained in current MUTCD flagging procedures. Proof of training must be available for review at the Department's request. Flagging credentials must be current within the last 5 years.</p> |
| SUBSECTION: PART: REVISION: | <p>112.03.11 Temporary Pavement Markings. B) Placement and Removal of Temporary Striping. Replace the 2nd sentence of the first paragraph with the following:</p> <p>On interstates and parkways, and other roadways approved by the State Highway Engineer, install pavement striping that is 6 inches in width.</p> |
| SUBSECTION: REVISION: | <p>112.03.12 Project Traffic Coordinator (PTC). Add the following at the end of the subsection:</p> <p>After October 1, 2008 the Department will require the PTC to have successfully completed the applicable qualification courses. Personnel that have not successfully completed the applicable courses by that date will not be considered qualified. Prior to October 1, 2008, conform to Subsection 108.06 A) and ensure the designated PTC has sufficient skill and experience to properly perform the task.</p> |
| SUBSECTION: REVISION: | <p>112.03.15 Non-Compliance of Maintain and Control of Traffic. Add the following section:</p> <p>112.03.15 Non-Compliance of Maintain and Control of Traffic. It is the Contractor's responsibility to conform to the traffic control requirements in the TCP, Proposal, plan sheets, specifications, and the Manual on Uniform Traffic Control Devices.</p> <p>Unless specified elsewhere in the contract, a penalty will be assessed in the event of non-compliance with Maintain and Control of Traffic requirements. These penalties will be assessed when the Contractor fails to correct a situation or condition of non-compliance with the contract traffic control requirements after being notified by the Engineer. The calculation of accrued penalties for non-compliance will be based upon the date/time of notification by the Engineer.</p> <p>The amount of the penalty assessed for non-compliance will be determined based upon the work zone duration, as defined by the MUTCD, and will be the greatest of the different calculation methods indicated below:</p> <p style="padding-left: 40px;">A) Long-term stationary work that occupies a location more than 3 days.</p> <p style="padding-left: 40px;">Correct the non-compliant issue within 24 hours from initial notification by the Engineer. If the issue is not corrected within 24 hours from the initial notification, a penalty for non-compliance will be assessed on a daily basis beginning from the initial notification of non-compliance. The Contractor will be assessed a \$1,000 daily penalty or the amount equal to the contract liquidated damages in Section 108.09, whichever of the 2 is greater. The penalty for non-compliance will escalate as follows for continued non-compliance after the initial notification.</p> <p style="padding-left: 40px;">3 Days after Notification \$1,500 daily penalty or 1.5 times the contract liquidated damages daily charge rate in Section 108.09, whichever is greater.</p> <p style="padding-left: 40px;">7 Days after Notification \$2,000 daily penalty or double the contract liquidated damages daily charge rate in Section 108.09, whichever is greater.</p> |

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| | <p>B) Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.</p> <p>Correct the non-compliant issue within 4 hours from initial notification by the Engineer. If the issue is not corrected within 4 hours from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.</p> <p>C) Short-term stationary is work that occupies a location for more than 1 hour within a single 24-hour period.</p> <p>Correct the non-compliant issue within 1 hour from initial notification by the Engineer. If the issue is not corrected within 1 hour from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.</p> <p>If the Contractor remains in violation of the Maintain and Control of Traffic requirements, or if the Department determines it to be in the public's interest, work will be suspended in accordance with Section 108.08 until the deficiencies are corrected. The Department reserves the right to correct deficiencies by any means available and charge the Contractor for labor, equipment, and material costs incurred in emergency situations.</p> |
| SUBSECTION: REVISION: | <p>206.03.02 Embankment</p> <p>Replace the last paragraph with the following:</p> <p>When rock roadbed is specified, construct the upper 2 feet of the embankment according to Subsection 204.03.09 A).</p> |
| SUBSECTION: REVISION: | <p>213.03.03 Inspection and Maintenance.</p> <p>Replace the last sentence of the second paragraph with the following:</p> <p>Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7 calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.</p> <p>Insert the following paragraph after the second paragraph:</p> <p>When the Contractor is required to obtain the KPDES permit, it is their responsibility to ensure compliance with the inspection and maintenance requirements of the permit. The Engineer will perform verification inspections a minimum of once per month and within 7 days of a ½ inch or greater rainfall event. The Engineer will document these inspections using Form TC 63-61 A. The Engineer will provide copies of the inspection only when improvements to the BMP's are required. Verification inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit. Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7 calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.</p> |

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| SUBSECTION: PART: REVISION: | <p>213.03.05 Temporary Control Measures. E) Temporary Seeding and Protection. Replace the first paragraph with the following:</p> <p>Apply an Annual Rye seed mix at a rate of 100 pounds per acre during the months of March through August. In addition to the Annual Rye, add 10 pounds of German Foxtail-Millet (<i>Setaria italica</i>), when performing temporary seeding during the months of June through August. During the months of September through February, apply Winter Wheat or Rye Grain at a rate of 100 pounds per acre. Obtain the Engineer's approval prior to the application of the seed mixture.</p> |
| SUBSECTION: PART: REVISION: | <p>213.03.05 Temporary Control Measures. F) Temporary Mulch. Replace the last sentence with the following:</p> <p>Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and anchor it into the soil by mechanically crimping it into the soil surface or applying tackifier to provide a protective cover. Regardless of the anchoring method used, ensure the protective cover holds until disturbance is required or permanent controls are installed.</p> |
| SUBSECTION: REVISION: | <p>303.05 Payment. Replace the second paragraph of the section with the following:</p> <p>The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot Pay Adjustment Schedule for Specialty Mixtures in Section 402.</p> |
| SUBSECTION: PART: REVISION: | <p>401.02.04 Special Requirements for Dryer Drum Plants. F) Production Quality Control. Replace the first sentence with the following:</p> <p>Stop mixing operations immediately if, at any time, a failure of the automatic electronic weighing system of the aggregate feed, asphalt binder feed, or water injection system control occurs.</p> |
| SUBSECTION: REVISION: | <p>401.02.04 Special Requirements for Dryer Drum Plants. Add the following:</p> <p>Part G) Water Injection System. Provided each system has prior approval as specified in Subsection 402.01.01, the Department will allow the use of water injection systems for purposes of foaming the asphalt binder and lowering the mixture temperature for production of Warm Mix Asphalt (WMA).</p> <p>Ensure the equipment for water injection meets the following requirements:</p> <ol style="list-style-type: none"> 1) Injection equipment computer controls are automatically coupled to the plants controls (manual operation is not permitted); 2) Injection equipment has variable controls that introduce water ratios based on production rates of mixtures; 3) Injects water into the flow of asphalt binder prior to contacting the aggregate; 4) Provides alarms on the water injection system that operate when the flow of water is interrupted or deviates from the prescribed water rate. |
| SUBSECTION: REVISION: | <p>401.03.01 Preparation of Mixtures. Replace the last sentence of the second paragraph with the following:</p> <p>Do not use asphalt binder while it is foaming in a storage tank.</p> |

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| SUBSECTION: REVISION: | 401.03.01 Preparation of Mixtures. Replace the third paragraph and Mixing and Laying Temperature table with the following: Maintain the temperature of the component materials and asphalt mixture within the ranges listed in the following table: <table><tr><th colspan="4">MIXING AND LAYING TEMPERATURES (°F)</th></tr><tr><th colspan="2">Material</th><th>Minimum</th><th>Maximum</th></tr><tr><td colspan="2">Aggregates</td><td>240</td><td>330</td></tr><tr><td colspan="2">Aggregates used with Recycled Asphalt Pavement (RAP)</td><td>240</td><td>—</td></tr><tr><td rowspan="2">Asphalt Binders</td><td>PG 64-22</td><td>230</td><td>330</td></tr><tr><td>PG 76-22</td><td>285</td><td>350</td></tr><tr><td rowspan="4">Asphalt Mixtures at Plant (Measured in Truck)</td><td>PG 64-22 HMA</td><td>250</td><td>330</td></tr><tr><td>PG 76-22 HMA</td><td>310</td><td>350</td></tr><tr><td>PG 64-22 WMA</td><td>230</td><td>275</td></tr><tr><td>PG 76-22 WMA</td><td>250</td><td>300</td></tr><tr><td rowspan="4">Asphalt Mixtures at Project (Measured in Truck When Discharging)</td><td>PG 64-22 HMA</td><td>230</td><td>330</td></tr><tr><td>PG 76-22 HMA</td><td>300</td><td>350</td></tr><tr><td>PG 64-22 WMA</td><td>210</td><td>275</td></tr><tr><td>PG 76-22 WMA</td><td>240</td><td>300</td></tr></table> | MIXING AND LAYING TEMPERATURES (°F) | | | | Material | | Minimum | Maximum | Aggregates | | 240 | 330 | Aggregates used with Recycled Asphalt Pavement (RAP) | | 240 | — | Asphalt Binders | PG 64-22 | 230 | 330 | PG 76-22 | 285 | 350 | Asphalt Mixtures at Plant (Measured in Truck) | PG 64-22 HMA | 250 | 330 | PG 76-22 HMA | 310 | 350 | PG 64-22 WMA | 230 | 275 | PG 76-22 WMA | 250 | 300 | Asphalt Mixtures at Project (Measured in Truck When Discharging) | PG 64-22 HMA | 230 | 330 | PG 76-22 HMA | 300 | 350 | PG 64-22 WMA | 210 | 275 | PG 76-22 WMA | 240 | 300 |
|--|--|-------------------------------------|---------|--|--|----------|--|---------|---------|------------|--|-----|-----|--|--|-----|---|-----------------|----------|-----|-----|----------|-----|-----|---|--------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--|--------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|-----|-----|
| MIXING AND LAYING TEMPERATURES (°F) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Material | | Minimum | Maximum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aggregates | | 240 | 330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aggregates used with Recycled Asphalt Pavement (RAP) | | 240 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asphalt Binders | PG 64-22 | 230 | 330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PG 76-22 | 285 | 350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asphalt Mixtures at Plant (Measured in Truck) | PG 64-22 HMA | 250 | 330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PG 76-22 HMA | 310 | 350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PG 64-22 WMA | 230 | 275 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PG 76-22 WMA | 250 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asphalt Mixtures at Project (Measured in Truck When Discharging) | PG 64-22 HMA | 230 | 330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PG 76-22 HMA | 300 | 350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PG 64-22 WMA | 210 | 275 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PG 76-22 WMA | 240 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 402.01 Description. Replace the paragraph with the following: Provide the process control and acceptance testing of all classes and types of asphalt mixtures which may be furnished either as hot mix asphalt (HMA) or warm mix asphalt (WMA) produced with water injection systems. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION REVISION: | 402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. Add the following subsection: 402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. The Department will evaluate trial production of WMA by use of a water injection system provided the system is installed according to the manufacturer’s requirements and satisfies the requirements of Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specified in Subsection 402.03.02 D). Do not place WMA for evaluation on Department projects. Provided production and placement operations satisfy the applicable quality levels, the Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 402.05.02 Asphalt Mixtures and Mixtures With RAP. Replace Subsection Title as below: 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Replace the paragraph with the following: The Department will pay for the mixture at the Contract unit bid price and apply a Lot Pay Adjustment for each lot placed based on the degree of compliance with the specified tolerances. Using the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for the applicable properties within each subplot and average the subplot pay values to determine the pay value for a given property for each lot. The Department will apply the Lot Pay Adjustment for each lot to a defined unit price of \$50.00 per ton. The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| SUBSECTION: PART: REVISION: | <p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. C) Conventional and RAP Mixtures Placed on Shoulders. Replace Title and Text with the following:</p> <p>C) HMA, WMA and RAP Mixtures Placed on Shoulders or Placed as Asphalt Pavement Wedge.</p> <ol style="list-style-type: none"> 1) Placed monolithically with the Mainline – Width of 4 feet or less. The Department will pay as mainline mixture. 2) Placed monolithically with the Mainline – Width of greater than 4 feet. The Department will pay as mainline mixture but use 1.00 for the Lane and Joint Density Pay Value for shoulder or Asphalt Pavement Wedge quantities. 3) Placed Separately. The Department will use 1.00 for the Lane and Joint Density Pay Value. | | | | | | | | | | | | |
|--|--|-----|--|-----------|------------------------|------|------------|------|--------------------|------|--------------------|-----|------------------|
| SUBSECTION: PART: REVISION: | <p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. Replace the title with the following: D) HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.</p> <p>Delete the following: D) HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. The Department will pay as mainline mixture but use a 1.00 pay value for all properties.</p> | | | | | | | | | | | | |
| SUBSECTION: PART: REVISION: | <p>402.05.02 Asphalt Mixtures for Temporary Pavement. E) Asphalt Mixtures for Temporary Pavement. Replace E) Asphalt Mixtures for Temporary Pavement with the following:</p> <p>D) Asphalt Mixtures for Temporary Pavement.</p> | | | | | | | | | | | | |
| SUBSECTION: PART: TABLES: REVISION: | <p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option A, Base and Binder Mixtures VMA Replace the VMA table with the following:</p> <table border="1" data-bbox="727 1230 1092 1449"> <thead> <tr> <th colspan="2">VMA</th></tr> <tr> <th>Pay Value</th><th>Deviation From Minimum</th></tr> </thead> <tbody> <tr> <td>1.00</td><td>≥ min. VMA</td></tr> <tr> <td>0.95</td><td>0.1-0.5 below min.</td></tr> <tr> <td>0.90</td><td>0.6-1.0 below min.</td></tr> <tr> <td>(1)</td><td>> 1.0 below min.</td></tr> </tbody> </table> | VMA | | Pay Value | Deviation From Minimum | 1.00 | ≥ min. VMA | 0.95 | 0.1-0.5 below min. | 0.90 | 0.6-1.0 below min. | (1) | > 1.0 below min. |
| VMA | | | | | | | | | | | | | |
| Pay Value | Deviation From Minimum | | | | | | | | | | | | |
| 1.00 | ≥ min. VMA | | | | | | | | | | | | |
| 0.95 | 0.1-0.5 below min. | | | | | | | | | | | | |
| 0.90 | 0.6-1.0 below min. | | | | | | | | | | | | |
| (1) | > 1.0 below min. | | | | | | | | | | | | |
| SUBSECTION: PART: TABLES: REVISION: | <p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option A, Surface Mixtures VMA Replace the VMA table with the following:</p> <table border="1" data-bbox="711 1612 1076 1864"> <thead> <tr> <th colspan="2">VMA</th></tr> <tr> <th>Pay Value</th><th>Deviation From Minimum</th></tr> </thead> <tbody> <tr> <td>1.00</td><td>≥ min. VMA</td></tr> <tr> <td>0.95</td><td>0.1-0.5 below min.</td></tr> <tr> <td>0.90</td><td>0.6-1.0 below min.</td></tr> <tr> <td>(1)</td><td>> 1.0 below min.</td></tr> </tbody> </table> | VMA | | Pay Value | Deviation From Minimum | 1.00 | ≥ min. VMA | 0.95 | 0.1-0.5 below min. | 0.90 | 0.6-1.0 below min. | (1) | > 1.0 below min. |
| VMA | | | | | | | | | | | | | |
| Pay Value | Deviation From Minimum | | | | | | | | | | | | |
| 1.00 | ≥ min. VMA | | | | | | | | | | | | |
| 0.95 | 0.1-0.5 below min. | | | | | | | | | | | | |
| 0.90 | 0.6-1.0 below min. | | | | | | | | | | | | |
| (1) | > 1.0 below min. | | | | | | | | | | | | |

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| SUBSECTION: PART: TABLE: REVISION: | 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option B Mixtures VMA Replace the VMA table with the following: <div><table><tr><th colspan="2">VMA</th></tr><tr><th>Pay Value</th><th>Deviation From Minimum</th></tr><tr><td>1.00</td><td>≥min. VMA</td></tr><tr><td>0.95</td><td>0 1-0.5 bel w min.</td></tr><tr><td>0.9</td><td>0.6-1.0 below min.</td></tr><tr><td>(2)</td><td>> 1.0 below min.</td></tr></table></div> | VMA | | Pay Value | Deviation From Minimum | 1.00 | ≥min. VMA | 0.95 | 0 1-0.5 bel w min. | 0.9 | 0.6-1.0 below min. | (2) | > 1.0 below min. | | | | | | | | | | | | | |
|--|---|---------------------|--------------|---------------------|---------------------------|------|-----------|-------------------|-----------------------|--------------|--------------------|-----|------------------|---|----|----|---|---------------|---|----|-----|---|--------|---|-----|-----|
| VMA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pay Value | Deviation From Minimum | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | ≥min. VMA | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.95 | 0 1-0.5 bel w min. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.9 | 0.6-1.0 below min. | | | | | | | | | | | | | | | | | | | | | | | | | |
| (2) | > 1.0 below min. | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: PART: NUMBER: REVISION: | 403.03.03 Preparation of Mixture. C) Mix Design Criteria. 1) Preliminary Mix Design. Replace the last two sentences of the paragraph and table with the following: Complete the volumetric mix design at the appropriate number of gyrations as given in the table below for the number of 20-year ESAL's. The Department will define the relationship between ESAL classes, as given in the bid items for Superpave mixtures, and 20-year ESAL ranges as follows: <div><table><tr><th colspan="2"></th><th colspan="3">Number of Gyrations</th></tr><tr><th>Class</th><th>ESAL's (millions)</th><th>$N_{initial}$</th><th>N_{design}</th><th>N_{max}</th></tr><tr><td>2</td><td>< 3.0</td><td>6</td><td>50</td><td>75</td></tr><tr><td>3</td><td>3.0 to < 30.0</td><td>7</td><td>75</td><td>115</td></tr><tr><td>4</td><td>≥ 30.0</td><td>8</td><td>100</td><td>160</td></tr></table></div> | | | Number of Gyrations | | | Class | ESAL's (millions) | $N_{initial}$ | N_{design} | N_{max} | 2 | < 3.0 | 6 | 50 | 75 | 3 | 3.0 to < 30.0 | 7 | 75 | 115 | 4 | ≥ 30.0 | 8 | 100 | 160 |
| | | Number of Gyrations | | | | | | | | | | | | | | | | | | | | | | | | |
| Class | ESAL's (millions) | $N_{initial}$ | N_{design} | N_{max} | | | | | | | | | | | | | | | | | | | | | | |
| 2 | < 3.0 | 6 | 50 | 75 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3.0 to < 30.0 | 7 | 75 | 115 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | ≥ 30.0 | 8 | 100 | 160 | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: PART: REVISION: | 403.03.09 Leveling and Wedging, and Scratch Course. A) Leveling and Wedging. Replace the first sentence of the first paragraph with the following: Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs. | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: PART: REVISION: | 403.03.09 Leveling and Wedging, and Scratch Course. B) Scratch Course. Replace the second sentence of the first paragraph with the following: Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs. | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 407.01 DESCRIPTION. Replace the first sentence of the paragraph with the following: Construct a pavement wedge composed of a hot-mixed or warm-mixed asphalt mixture. | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 409.01 DESCRIPTION. Replace the first sentence of the paragraph with the following: Use reclaimed asphalt pavement (RAP) from Department projects or other approved sources in hot mix asphalt (HMA) or warm mix asphalt (WMA) provided mixture requirements are satisfied. | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 410.01 DESCRIPTION. Delete the second sentence of the paragraph. | | | | | | | | | | | | | | | | | | | | | | | | | |

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| SUBSECTION: REVISION: | <p>410.03.01 Corrective Work. Replace the last sentence of the paragraph with the following:</p> <p>Provide a final surface comparable to the adjacent pavement that does not require corrective work in respect to texture, appearance, and skid resistance.</p> | | | | | | | | | | | | | | |
|--|---|--------------|--|-----------|-----------------|------|-----------|------|-----------|------|------------------------|------|------------------------|-----|------------------|
| SUBSECTION: PART: NUMBER: REVISION: | <p>410.03.02 Ride Quality. B) Requirements. 1) Category A. Replace the last sentence of the first paragraph with the following:</p> <p>At the Department's discretion, a pay deduction of \$1200 per 0.1-lane-mile section may be applied in lieu of corrective work.</p> | | | | | | | | | | | | | | |
| SUBSECTION: PART: NUMBER: REVISION: | <p>410.03.02 Ride Quality. B) Requirements. 2) Category B. Replace the second and third sentence of the first paragraph with the following:</p> <p>When the IRI is greater than 90 for a 0.1-mile section, perform corrective work, or remove and replace the pavement to achieve the specified IRI. At the Department's discretion, a pay deduction of \$750 per 0.1-lane-mile section may be applied in lieu of corrective work.</p> | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | <p>410.05 PAYMENT. Add the following sentence to the end of the first paragraph:</p> <p>The sum of the pay value adjustments for ride quality shall not exceed \$0 for the project as a whole.</p> | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | <p>413.05.02 CL3 SMA BASE 1.00D PG76-22. Insert the following sentence between the first and second sentence of the first paragraph:</p> <p>The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.</p> | | | | | | | | | | | | | | |
| SUBSECTION: TABLE: REVISION: | <p>413.05.02 CL3 SMA BASE 1.00D PG 76-22. JOINT DENSITY TABLE Replace the joint density table with the following:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">LANE DENSITY</th></tr> <tr> <th>Pay Value</th><th>Test Result (%)</th></tr> </thead> <tbody> <tr> <td>1.05</td><td>95.0-96.5</td></tr> <tr> <td>1.00</td><td>93.0-94.9</td></tr> <tr> <td>0.95</td><td>92.0-92.9 or 96.6-97.0</td></tr> <tr> <td>0.90</td><td>91.0-91.9 or 97.1-97.5</td></tr> <tr> <td>(1)</td><td>< 91.0 or > 97.5</td></tr> </tbody> </table> | LANE DENSITY | | Pay Value | Test Result (%) | 1.05 | 95.0-96.5 | 1.00 | 93.0-94.9 | 0.95 | 92.0-92.9 or 96.6-97.0 | 0.90 | 91.0-91.9 or 97.1-97.5 | (1) | < 91.0 or > 97.5 |
| LANE DENSITY | | | | | | | | | | | | | | | |
| Pay Value | Test Result (%) | | | | | | | | | | | | | | |
| 1.05 | 95.0-96.5 | | | | | | | | | | | | | | |
| 1.00 | 93.0-94.9 | | | | | | | | | | | | | | |
| 0.95 | 92.0-92.9 or 96.6-97.0 | | | | | | | | | | | | | | |
| 0.90 | 91.0-91.9 or 97.1-97.5 | | | | | | | | | | | | | | |
| (1) | < 91.0 or > 97.5 | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | <p>413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22. Insert the following sentence between the first and second sentence of the first paragraph:</p> <p>The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.</p> | | | | | | | | | | | | | | |

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| SUBSECTION: TABLE: REVISION: | 413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22. JOINT DENSITY TABLE Replace the joint density table with the following: <table><tr><th colspan="3">DENSITY</th></tr><tr><th>Pay Value</th><th>Lane Density Test Result (%)</th><th>Joint Density Test Result (%)</th></tr><tr><td>1.05</td><td>95.0-96.5</td><td>92.0-96.0</td></tr><tr><td>1.00</td><td>93.0-94.9</td><td>90.0-91.9</td></tr><tr><td>0.95</td><td>92.0-92.9 or 96.6-97.0</td><td>89.0-89.9 or 96.1-96.5</td></tr><tr><td>0.90</td><td>91.0-91.9 or 97.1-97.5</td><td>88.0-88.9 or 96.6-97.0</td></tr><tr><td>0.75</td><td>----</td><td>< 88.0 or > 97.0</td></tr><tr><td>(1)</td><td>< 91.0 or > 97.5</td><td>----</td></tr></table> | DENSITY | | | Pay Value | Lane Density Test Result (%) | Joint Density Test Result (%) | 1.05 | 95.0-96.5 | 92.0-96.0 | 1.00 | 93.0-94.9 | 90.0-91.9 | 0.95 | 92.0-92.9 or 96.6-97.0 | 89.0-89.9 or 96.1-96.5 | 0.90 | 91.0-91.9 or 97.1-97.5 | 88.0-88.9 or 96.6-97.0 | 0.75 | ---- | < 88.0 or > 97.0 | (1) | < 91.0 or > 97.5 | ---- |
|---|---|----------------------------------|-----------------|-----------------|------------|---------------------------------|----------------------------------|------|-----------|-----------|------|-----------|-----------|------|------------------------|------------------------|------|------------------------|------------------------|------|------|------------------|-----|------------------|------|
| DENSITY | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pay Value | Lane Density Test Result (%) | Joint Density Test Result (%) | | | | | | | | | | | | | | | | | | | | | | | |
| 1.05 | 95.0-96.5 | 92.0-96.0 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 93.0-94.9 | 90.0-91.9 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.95 | 92.0-92.9 or 96.6-97.0 | 89.0-89.9 or 96.1-96.5 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.90 | 91.0-91.9 or 97.1-97.5 | 88.0-88.9 or 96.6-97.0 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | ---- | < 88.0 or > 97.0 | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | < 91.0 or > 97.5 | ---- | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 501.05.02 Ride Quality. Add the following sentence to the end of the first paragraph: The sum of the pay value adjustments for the ride quality shall not exceed \$0 for the project as a whole. | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 505.03.04 Detectable Warnings. Replace the first sentence with the following: Install detectable warning pavers at all sidewalk ramps and on all commercial entrances according to the Standard Drawings. | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 505.04.04 Detectable Warnings. Replace the paragraph with the following: The Department will measure the quantity in square feet. All retrofit applications for maintenance projects will require the removal of existing sidewalks to meet the requirements of the standard drawings applicable to the project. The cost associated with the removal of the existing sidewalk will be incidental to the detectable warnings bid item or incidental to the bid item for the construction of the concrete sidewalk unless otherwise noted. | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 505.05 PAYMENT. Add the following to the bid item table: <table><tr><td><u>Code</u></td><td><u>Pay Item</u></td><td><u>Pay Unit</u></td></tr><tr><td>23158ES505</td><td>Detectable Warnings</td><td>Square Foot</td></tr></table> | <u>Code</u> | <u>Pay Item</u> | <u>Pay Unit</u> | 23158ES505 | Detectable Warnings | Square Foot | | | | | | | | | | | | | | | | | | |
| <u>Code</u> | <u>Pay Item</u> | <u>Pay Unit</u> | | | | | | | | | | | | | | | | | | | | | | | |
| 23158ES505 | Detectable Warnings | Square Foot | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 509.01 DESCRIPTION. Replace the second paragraph with the following: The Department may allow the use of similar units that conform to the National Cooperative Highway Research Program (NCHRP) 350 Test Level 3 (TL-3) requirements and the typical features depicted by the Standard Drawings. Obtain the Engineers approval prior to use. Ensure the barrier wall shape, length, material, drain slot dimensions and locations typical features are met and the reported maximum deflection is 3 feet or less from the NCHRP 350 TL-3 for Test 3 – 11 (pickup truck impacting at 60 mph at a 25-degree angle.) | | | | | | | | | | | | | | | | | | | | | | | | |

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| SUBSECTION: REVISION: | 601.03.02 Concrete Producer Responsibilities. Replace the first sentence with the following: Obtain the concrete from producers that are in compliance with KM 64-323 and on the Department's List of Approved Materials. Add the following to the first paragraph: If a concrete plant becomes unqualified during a project and there are no other qualified plants in the region, the Department will provide qualified personnel to witness and ensure the producer follows the required specifications. The Department will assess the Contractor a \$100 per hour charge for this service. |
| SUBSECTION: PART: REVISION: | 601.03.02 Concrete Producer Responsibilities. B) Certified Personnel. Replace the second sentence with the following: Ensure that the concrete technicians are certified as ACI Level I (Level I) and KRMCA Level II (Level II). |
| SUBSECTION: PART: REVISION: | 601.03.02 Concrete Producer Responsibilities. C) Quality Control. Replace the second sentence with the following: Ensure that the Level II concrete technician is present when work is in progress and is responsible for inspecting trucks, batch weight calculations, monitoring batching, making mixture adjustments, reviewing the slump, air content, unit weight, temperature, and aggregate tests, all to provide conforming concrete to the project. |
| SUBSECTION: PART: REVISION: | 601.03.02 Concrete Producer Responsibilities. D) Producer Testing. Replace with the following: When producing for state work, have a Qualified Concrete Aggregate Technician or KYTC Qualified Aggregate Technician perform, at a minimum, weekly gradations and minus 200 wash tests and daily moisture contents of coarse and fine aggregate (Fine aggregates will not require a minus 200 wash test). Using the daily moisture contents, adjust the approved mix design accordingly prior to production. Ensure that the Level II concrete technician is present when work is in progress and is responsible for inspecting trucks, batch weight calculations, monitoring batching, making mixture adjustments, reviewing the slump, air content, unit weight, temperature, and aggregate tests, all to provide conforming concrete to the project. |
| SUBSECTION: PART: REVISION: | 601.03.02 Concrete Producer Responsibilities. E) Trip Tickets. Replace the second sentence with the following: Include on the trip ticket the Sample ID for the approved mix design and a statement certifying that the data on the ticket is correct and that the mixture conforms to the mix design. |
| SUBSECTION: PART: NUMBER: REVISION: | 601.03.03 Proportioning and Requirements. C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures 2) Mineral Admixtures. Replace the second sentence with the following: Reduction of the total cement content by a combination of mineral admixtures will be allowed, up to a maximum of 40 percent. |

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| SUBSECTION: PART: NUMBER: LETTER: REVISION: | 601.03.03 Proportioning and Requirements. C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures 2) Mineral Admixtures. a) Fly Ash. Delete the last sentence of the third paragraph. |
| SUBSECTION: PART: NUMBER: LETTER: REVISION: | 601.03.03 Proportioning and Requirements. C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures 2) Mineral Admixtures. b) Ground Granulated Blast Furnace Slag (GGBF Slag). Delete the second sentence of the third paragraph. |
| SUBSECTION: PART: REVISION: | 601.03.03 Proportioning and Requirements. E) Measuring. Add the following sentence: Conform to the individual ingredient material batching tolerances in Appendix A. |
| SUBSECTION: PART: REVISION: | 601.03.09 Placing Concrete. A) General. Replace the last sentence of the fourth paragraph with the following: Do not use aluminum or aluminum alloy troughs, pipes, or chutes that have surface damage or for lengths greater than 20 feet. Replace the second sentence of the fifth paragraph with the following: When pumping, equip the delivery pipe with a nozzle, having a minimum of 2 right angles, at the discharge end. Alternate nozzles or restriction devices may be allowed with prior approval by the Engineer. |
| SUBSECTION: REVISION: | 605.02.05 Forms. Delete the last sentence. |
| SUBSECTION: REVISION: | 605.03.04 Tack Welding. Replace with the following: The Department does not allow tack welding. |
| SUBSECTION: REVISION: | 606.02.11 Coarse Aggregate. Replace with the following: Conform to Section 805, size No. 8 or 9-M. |
| SUBSECTION: PART: REVISION: | 609.03.04 Expansion and Fixed Joints. D) Preformed Neoprene Joint Seals. Replace the last sentence of paragraph seven with the following: Field splices will not be allowed during partial width construction. It is Contractor's responsibility to determine and install the length of seal required for the joint to barrier wall as per the standard drawing. |
| SUBSECTION: REVISION: | 609.03.09 Finish with Burlap Drag. Delete the entire section. |
| SUBSECTION: REVISION: | 609.04.06 Joint Sealing. Replace Subsection 601.04 with the following: Subsection 606.04.08. |

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| SUBSECTION: REVISION: | <p>609.05 Payment. Replace the Pay Unit for Joint Sealing with the following:</p> <p>See Subsection 606.05.</p> |
| SUBSECTION: REVISION: | <p>701.03.06 Initial Backfill. Replace the first sentence of the last paragraph with the following:</p> <p>When the Contract specifies, perform quality control testing to verify compaction according to KM 64-512.</p> |
| SUBSECTION: REVISION: | <p>701.03.08 Testing of Pipe. Replace and rename the subsection with the following:</p> <p>701.03.08 Inspection of Pipe. The engineer will visually inspect all pipe. The Department will require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining pipe structures on the project to provide for the minimum inspection requirement. The pipe will be selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be inspected is at least 50 percent of the total linear feet of all installed pipe on the project.</p> <p>Unless the Engineer directs otherwise, schedule the inspections no sooner than 30 days after completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When final surfacing conflicts with the 30-day minimum, conduct the inspections prior to placement of the final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete inspection is possible.</p> <p>Notify the Engineer immediately if distresses or locations of improper installation are discovered. When camera testing shows distresses or improper installation in the installed pipe, the Engineer may require additional sections to be tested. Provide the video and report to the Engineer when testing is complete in accordance with KM 64-114.</p> <p>Pipes that exhibit distress or signs of improper installation may necessitate repair or removal as the Engineer directs. These signs include, but are not limited to: deflection, cracking, joint separation, sagging or other interior damage. If corrugated metal or thermoplastic pipes exceed the deflection and installation thresholds indicated in the table below, provide the Department with an evaluation of each location conducted by a Professional Engineer addressing the severity of the deflection, structural integrity, environmental conditions, design service life, and an evaluation of the factor of safety using Section 12, "Buried Structures and Tunnel Liners," of the AASHTO LRFD Bridge Design Specifications. Based on the evaluation, the Department may allow the pipe to remain in place at a reduced unit price as shown in the table below. Provide 5 business days for the Department to review the evaluation. When the pipe shows deflection of 10 percent or greater, remove and replace the pipe. When the camera/video or laser inspection results are called into question, the Department may require direct measurements or mandrel testing.</p> <p>The Cabinet may elect to conduct Quality Assurance verifications of any pipe inspections.</p> |
| SUBSECTION: REVISION: | <p>701.04.07 Testing. Replace and rename the subsection with the following:</p> <p>701.04.07 Pipeline Video Inspection. The Department will measure the quantity in linear feet along the pipe invert of the structure inspected. When inspection above the specified 50 percent is performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03. However, if additional distresses or non-conformance is found, the Department will not measure the additional inspection for payment.</p> |

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| SUBSECTION: REVISION: | 701.05 PAYMENT. Add the following pay item to the list of pay items: <table><tr><td>Code</td><td>Pay Item</td><td>Pay Unit</td></tr><tr><td>23131ER701</td><td>Pipeline Video Inspection</td><td>Linear Foot</td></tr></table> | Code | Pay Item | Pay Unit | 23131ER701 | Pipeline Video Inspection | Linear Foot | | | | | | |
|---|--|------------------------------|------------------------|------------------------------|-------------------------|-------------------------------------|----------------------------|-------------------------|--|-------------------------|---------------------------------|--------------------------------------|-------------------------|
| Code | Pay Item | Pay Unit | | | | | | | | | | | |
| 23131ER701 | Pipeline Video Inspection | Linear Foot | | | | | | | | | | | |
| SUBSECTION: TABLE: REVISION: | 701.05 PAYMENT PIPE DEFLECTION DETERMINED BY CAMERA TESTING Replace this table with the following table and note: <table><tr><th colspan="2">PIPE DEFLECTION</th></tr><tr><th>Amount of Deflection (%)</th><th>Payment</th></tr><tr><td>0.0 to 5.0</td><td>100% of the Unit Bid Price</td></tr><tr><td>5.1 to 9.9</td><td>50% of the Unit Bid Price ⁽¹⁾</td></tr><tr><td>10 or greater</td><td>Remove and Replace</td></tr></table> <p>(1) Provide Structural Analysis as indicated above. Based on the structural analysis, pipe may be allowed to remain in place at the reduced unit price.</p> | PIPE DEFLECTION | | Amount of Deflection (%) | Payment | 0.0 to 5.0 | 100% of the Unit Bid Price | 5.1 to 9.9 | 50% of the Unit Bid Price ⁽¹⁾ | 10 or greater | Remove and Replace | | |
| PIPE DEFLECTION | | | | | | | | | | | | | |
| Amount of Deflection (%) | Payment | | | | | | | | | | | | |
| 0.0 to 5.0 | 100% of the Unit Bid Price | | | | | | | | | | | | |
| 5.1 to 9.9 | 50% of the Unit Bid Price ⁽¹⁾ | | | | | | | | | | | | |
| 10 or greater | Remove and Replace | | | | | | | | | | | | |
| SUBSECTION: TABLE: REVISION: | 701.05 PAYMENT PIPE DEFLECTION DETERMINED BY MANDREL TESTING Delete this table. | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 713.02.01 Paint. Replace with the following: Conform to Section 842 and Section 846. | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 713.03 CONSTRUCTION. Replace the first sentence of the second paragraph with the following: On interstates and parkways, and other routes approved by the State Highway Engineer, install pavement striping that is 6 inches in width. | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 713.03.03 Paint Application. Replace the second paragraph with the following table: <table><tr><th>Material</th><th>Paint Application Rate</th><th>Glass Beads Application Rate</th></tr><tr><td>4 inch waterborne paint</td><td>Min. of 16.5 gallons/mile</td><td>Min. of 6 pounds/gallon</td></tr><tr><td>6 inch waterborne paint</td><td>Min. of 24.8 gallons/mile</td><td>Min. of 6 pounds/gallon</td></tr><tr><td>6 inch durable waterborne paint</td><td>Min. of 36 gallons/mile</td><td>Min. of 6 pounds/gallon</td></tr></table> | Material | Paint Application Rate | Glass Beads Application Rate | 4 inch waterborne paint | Min. of 16.5 gallons/mile | Min. of 6 pounds/gallon | 6 inch waterborne paint | Min. of 24.8 gallons/mile | Min. of 6 pounds/gallon | 6 inch durable waterborne paint | Min. of 36 gallons/mile | Min. of 6 pounds/gallon |
| Material | Paint Application Rate | Glass Beads Application Rate | | | | | | | | | | | |
| 4 inch waterborne paint | Min. of 16.5 gallons/mile | Min. of 6 pounds/gallon | | | | | | | | | | | |
| 6 inch waterborne paint | Min. of 24.8 gallons/mile | Min. of 6 pounds/gallon | | | | | | | | | | | |
| 6 inch durable waterborne paint | Min. of 36 gallons/mile | Min. of 6 pounds/gallon | | | | | | | | | | | |
| SUBSECTION: REVISION: | 713.03.04 Marking Removal. Replace the last sentence of the paragraph with the following: Vacuum all marking material and removal debris concurrently with the marking removal operation. | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 713.05 PAYMENT. Insert the following codes and pay items below the Pavement Striping – Permanent Paint: <table><tr><td>Code</td><td>Pay Item</td><td>Pay Unit</td></tr><tr><td>24189ER</td><td>Durable Waterborne Marking – 6 IN W</td><td>Linear Foot</td></tr><tr><td>24190ER</td><td>Durable Waterborne Marking – 6 IN Y</td><td>Linear Foot</td></tr><tr><td>24191ER</td><td>Durable Waterborne Marking – 12 IN W</td><td>Linear Foot</td></tr></table> | Code | Pay Item | Pay Unit | 24189ER | Durable Waterborne Marking – 6 IN W | Linear Foot | 24190ER | Durable Waterborne Marking – 6 IN Y | Linear Foot | 24191ER | Durable Waterborne Marking – 12 IN W | Linear Foot |
| Code | Pay Item | Pay Unit | | | | | | | | | | | |
| 24189ER | Durable Waterborne Marking – 6 IN W | Linear Foot | | | | | | | | | | | |
| 24190ER | Durable Waterborne Marking – 6 IN Y | Linear Foot | | | | | | | | | | | |
| 24191ER | Durable Waterborne Marking – 12 IN W | Linear Foot | | | | | | | | | | | |

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| SUBSECTION: REVISION: | 714.03 CONSTRUCTION. Insert the following paragraph at the end of the third paragraph: Use Type I Tape for markings on bridge decks, JPC pavement and JPC intersections. Thermoplastic should only be used for markings on asphalt pavement. |
| SUBSECTION: REVISION: | 714.03.07 Marking Removal. Replace the third sentence of the paragraph with the following: Vacuum all marking material and removal debris concurrently with the marking removal operation. |
| SUBSECTION: REVISION: | 716.01 DESCRIPTION. Insert the following after the first sentence: Energize lighting as soon as it is fully functional and ready for inspection. Ensure that lighting remains operational until the Division of Traffic Operations has provided written acceptance of the electrical work. |
| SUBSECTION: REVISION: | 716.02.01 Roadway Lighting Materials. Replace the last two sentences of the paragraph with the following: Submit for material approval an electronic file of descriptive literature, drawings, and any requested design data to the Division of Traffic Operations. Do not begin work until shop drawings are approved. Notify the Engineer when submitting any information to the Division of Traffic Operations. Do not make substitutions for approved materials without written permission as described above. |
| SECTION: REVISION: | 717 – THERMOPLASTIC INTERSECTION MARKINGS. Replace the section name with the following: INTERSECTION MARKINGS. |
| SUBSECTION: REVISION: | 717.01 DESCRIPTION: Replace the paragraph with the following: Furnish and install thermoplastic or Type I tape intersection markings (Stop Bars, Crosswalks, Turn Arrows, etc.) Thermoplastic markings may be installed by either a machine applied, screed extrusion process or by applying preformed thermoplastic intersection marking material. |
| SUBSECTION: REVISION: | 717.02 MATERIALS AND EQUIPMENT. Insert the following subsection: 717.02.06 Type I Tape. Conform to Section 836. |
| SUBSECTION: REVISION: | 717.03.03 Application. Insert the following part to the subsection: B) Type I Tape Intersection Markings. Apply according to the manufacturer's recommendations. Cut all tape at pavement joints when applied to concrete surfaces. |

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|--|---|-----------------|-----------------|-----------------|-------|----------------------------------|-------------|------------|----------------------------|------|------------------------|----------------------------------|-------------|------------------------|------------------------------------|-------------|------------|---------------------------------|-------------|------------|---|-------------|------------|---------------------------------|------|-----------------------|--|--|------------|---------------------------|------|------------|-----------------------------|------|------------|---------------------------------------|-------------|------------|--------------------------|------|
| SUBSECTION: PART: REVISION: | 717.03.05 Proving Period. A) Requirements. Insert the following to this section: 2) Type I Tape. During the proving period, ensure that the pavement marking material shows no signs of failure due to blistering, excessive cracking, bleeding, staining, discoloration, oil content of the pavement materials, drippings, chipping, spalling, poor adhesion to the pavement, loss of retroreflectivity, vehicular damage, and normal wear. Type I Tape is manufactured off site and warranted by the manufacturer to meet certain retroreflective requirements. As long as the material is adequately bonded to the surface and shows no signs of failure due to the other items listed in Subsection 714.03.06 A) 1), retroreflectivity readings will not be required. In the absence of readings, the Department will accept tape based on a nighttime visual observation. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 717.03.06 Marking Removal. Replace the third sentence of the paragraph with the following: Vacuum all marking material and removal debris concurrently with the marking removal operation. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 717.05 PAYMENT. Insert the following bid item codes: <table><tr><td><u>Code</u></td><td><u>Pay Unit</u></td><td><u>Pay Item</u></td></tr><tr><td>06563</td><td>Pave Marking – R/R X Bucks 16 IN</td><td>Linear Foot</td></tr><tr><td>20782NS714</td><td>Pave Marking Thermo – Bike</td><td>Each</td></tr><tr><td>23251ES717, 23264ES717</td><td>Pave Mark TY I Tape X-Walk, Size</td><td>Linear Foot</td></tr><tr><td>23252ES717, 23265ES717</td><td>Pave Mark TY I Tape Stop Bar, Size</td><td>Linear Foot</td></tr><tr><td>23253ES717</td><td>Pave Mark TY I Tape Cross Hatch</td><td>Square Foot</td></tr><tr><td>23254ES717</td><td>Pave Mark TY I Tape Dotted Lane Extension</td><td>Linear Foot</td></tr><tr><td>23255ES717</td><td>Pave Mark TY I Tape Arrow, Type</td><td>Each</td></tr><tr><td>23268ES717-23270ES717</td><td></td><td></td></tr><tr><td>23256ES717</td><td>Pave Mark TY I Tape- ONLY</td><td>Each</td></tr><tr><td>23257ES717</td><td>Pave Mark TY I Tape- SCHOOL</td><td>Each</td></tr><tr><td>23266ES717</td><td>Pave Mark TY 1 Tape R/R X Bucks-16 IN</td><td>Linear Foot</td></tr><tr><td>23267ES717</td><td>Pave Mark TY 1 Tape-Bike</td><td>Each</td></tr></table> | <u>Code</u> | <u>Pay Unit</u> | <u>Pay Item</u> | 06563 | Pave Marking – R/R X Bucks 16 IN | Linear Foot | 20782NS714 | Pave Marking Thermo – Bike | Each | 23251ES717, 23264ES717 | Pave Mark TY I Tape X-Walk, Size | Linear Foot | 23252ES717, 23265ES717 | Pave Mark TY I Tape Stop Bar, Size | Linear Foot | 23253ES717 | Pave Mark TY I Tape Cross Hatch | Square Foot | 23254ES717 | Pave Mark TY I Tape Dotted Lane Extension | Linear Foot | 23255ES717 | Pave Mark TY I Tape Arrow, Type | Each | 23268ES717-23270ES717 | | | 23256ES717 | Pave Mark TY I Tape- ONLY | Each | 23257ES717 | Pave Mark TY I Tape- SCHOOL | Each | 23266ES717 | Pave Mark TY 1 Tape R/R X Bucks-16 IN | Linear Foot | 23267ES717 | Pave Mark TY 1 Tape-Bike | Each |
| <u>Code</u> | <u>Pay Unit</u> | <u>Pay Item</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06563 | Pave Marking – R/R X Bucks 16 IN | Linear Foot | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20782NS714 | Pave Marking Thermo – Bike | Each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23251ES717, 23264ES717 | Pave Mark TY I Tape X-Walk, Size | Linear Foot | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23252ES717, 23265ES717 | Pave Mark TY I Tape Stop Bar, Size | Linear Foot | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23253ES717 | Pave Mark TY I Tape Cross Hatch | Square Foot | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23254ES717 | Pave Mark TY I Tape Dotted Lane Extension | Linear Foot | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23255ES717 | Pave Mark TY I Tape Arrow, Type | Each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23268ES717-23270ES717 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23256ES717 | Pave Mark TY I Tape- ONLY | Each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23257ES717 | Pave Mark TY I Tape- SCHOOL | Each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23266ES717 | Pave Mark TY 1 Tape R/R X Bucks-16 IN | Linear Foot | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23267ES717 | Pave Mark TY 1 Tape-Bike | Each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 725.02.02 Type VI Class C & CT. Replace bullet 2) with the following: 2) The SCI100GM System as developed by SCI Products, Inc. of St. Charles, Illinois. For all miscellaneous metal work conform to ASTM A 36 and galvanize according to ASTM A 123. For the SCI100GM fender panels conform to AASHTO 180. Galvanize the SCI100GM fender panels and SCI100GM -beam connectors after fabrication according to ASTM A 123. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 725.02.04 Type VII Class C. Replace bullet 2) with the following: 2) The SCI100GM System as developed by SCI Products, Inc. of St. Charles, Illinois. For all miscellaneous metal work conform to ASTM A 36 and galvanize according to ASTM A 123. For the SCI100GM fender panels conform to AASHTO 180. Galvanize the SCI100GM fender panels and SCI100GM-beam connectors after fabrication according to ASTM A 123. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: REVISION: | 801.01 REQUIREMENTS. Delete the fourth sentence of the first paragraph and add the following to the second paragraph. When supplying cement with a SO ₃ content above the value in table I of ASTM C 150, include supportive ASTM C 1038 14-day expansion test data for the supplied SO ₃ content on the certification. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| SUBSECTION: REVISION: | 805.01 GENERAL. Replace the second paragraph with the following: The Department’s List of Approved Materials includes the Aggregate Source List, the list of Class A and Class B Polish-Resistant Aggregate Sources, and the Concrete Restriction List. |
| SUBSECTION: REVISION: | 805.04 CONCRETE. Delete footnote (1) The permissible lightweight particle content of gravel coarse aggregate for reinforced concrete box culvert sections, concrete pipe, pipe arches, or for use only in concrete that will be permanently protected from freezing by 2 feet or more of cover is 10.0 percent. |
| SUBSECTION: REVISION: | 805.04 CONCRETE. Replace the “AASHTO T 160” reference in first sentence of the third paragraph with “KM 64-629” |
| SUBSECTION: TABLE: PART: REVISION: | 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE. AGGREGATE SIZE USE Cement Concrete Structures and Incidental Construction Replace “9-M for Waterproofing Overlays” with “8 or 9-M for Waterproofing Overlays” |

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SUBSECTION: 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.
REVISION: Replace the "SIZES OF COARSE AGGREGATES" table in with the following:

| SIZES OF COARSE AGGREGATES | | | | | | | | | | | | | | | | | |
|---|---|--------|------------|--------|------------|--------|------------|--------|----------|----------|----------|--------|-------|--------|--------|---------|---------|
| AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT | | | | | | | | | | | | | | | | | |
| Aggregate Size | Sieve | 4 inch | 3 1/2 inch | 3 inch | 2 1/2 inch | 2 inch | 1 1/2 inch | 1 inch | 3/4 inch | 1/2 inch | 3/8 inch | No. 4 | No. 8 | No. 16 | No. 30 | No. 100 | No. 200 |
| Aggregate Size | Nominal ⁽³⁾ Maximum Aggregate Size | | | | | | | | | | | | | | | | |
| 1 | 3 1/2 inch | 100 | 90-100 | | 25-60 | | 0-15 | | 0-5 | | | | | | | | |
| 2 | 2 1/2 inch | | | 100 | 90-100 | 35-70 | 0-15 | | 0-5 | | | | | | | | |
| 23 | 2 inch | | | 100 | | 40-90 | | 0-15 | | 0-5 | | | | | | | |
| 3 | 2 inch | | | | 100 | 90-100 | 35-70 | 0-15 | | 0-5 | | | | | | | |
| 357 | 2 inch | | | | 100 | 95-100 | | 35-70 | | 10-30 | | 0-5 | | | | | |
| 4 | 1 1/2 inch | | | | | 100 | 90-100 | 20-55 | 0-15 | | 0-5 | | | | | | |
| 467 | 1 1/2 inch | | | | | 100 | 95-100 | | 35-70 | | 10-30 | 0-5 | | | | | |
| 5 | 1 inch | | | | | | 100 | 90-100 | 20-55 | 0-10 | 0-5 | | | | | | |
| 57 | 1 inch | | | | | | 100 | 95-100 | | 25-60 | | 0-10 | 0-5 | | | | |
| 610 | 1 inch | | | | | | 100 | 85-100 | | 40-75 | | 15-40 | | | | | |
| 67 | 3/4 inch | | | | | | | 100 | 90-100 | | 20-55 | 0-10 | 0-5 | | | | |
| 68 | 3/4 inch | | | | | | | 100 | 90-100 | | 30-65 | 5-25 | 0-10 | 0-5 | | | |
| 710 | 3/4 inch | | | | | | | 100 | 80-100 | | 30-75 | 0-30 | | | | | |
| 78 | 1/2 inch | | | | | | | | 100 | 90-100 | 40-75 | 5-25 | 0-10 | 0-5 | | | |
| 8 | 3/8 inch | | | | | | | | | 100 | 85-100 | 10-30 | 0-10 | 0-5 | | | |
| 9-M | 3/8 inch | | | | | | | | | 100 | 75-100 | 0-25 | 0-5 | | | | |
| 10 ⁽²⁾ | No. 4 | | | | | | | | | | 100 | 85-100 | | | | 10-30 | |
| 11 ⁽²⁾ | No. 4 | | | | | | | | | | 100 | 40-90 | 10-40 | | | 0-5 | |
| DENSE GRADED AGGREGATE ⁽¹⁾ | 3/4 inch | | | | | | | 100 | 70-100 | | 50-80 | 30-65 | | | 10-40 | | 4-13 |
| CRUSHED ⁽⁴⁾ STONE BASE ⁽⁴⁾ | 1 1/2 inch | | | | 100 | | 90-100 | | 60-95 | | 30-70 | 15-55 | | | 5-20 | | 0-8 |

⁽¹⁾ Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27.
⁽²⁾ Sizes shown for convenience and are not to be considered as coarse aggregates.
⁽³⁾ Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained.
Note: The Department will allow blending of same source/same type aggregate when precise procedures are used such as cold feed, belt, or equivalent and combining of sizes or types of aggregate using the weigh hopper at concrete plants or controlled feed belts at the pugmill to obtain designated sizes.

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|---|--|---------------|----------|----------|----------------------|------------------------|
| SUBSECTION: REVISION: | 805.16 SAMPLING AND TESTING. Replace the “AASHTO T 160” method with the “KM 64-629” method for the Concrete Beam Expansion Test. Replace the “ASTM D 3042” method with the “KM 64-625” method for Insoluble Residue. | | | | | |
| SUBSECTION: REVISION: | 810.04.01 Coating Requirements. Replace the “Subsection 806.07” references with “Subsection 806.06” | | | | | |
| SUBSECTION: PART: REVISION: | 810.06.01 Polyvinyl Chloride (PVC) Pipe. B) Culvert and Entrance Pipe. Replace the title with the following: B) Culvert Pipe, Storm Sewer, and Entrance Pipe. | | | | | |
| SUBSECTION: REVISION: | 823.02 LIQUID MEMBRANE FORMING COMPOUNDS. Add the following: Effective July 1, 2011, to remain on or be added to the Department’s approved list, products must have completed testing or been submitted for testing through the National Transportation Product Evaluation Program (NTPEP) for Concrete Curing Compounds. | | | | | |
| SUBSECTION: REVISION: | 837.03 APPROVAL. Replace the last sentence with the following: The Department will sample and evaluate for approval each lot of thermoplastic material delivered for use per contract prior to installation of the thermoplastic material. Do not allow the installation of thermoplastic material until it has been approved by the Division of Materials. Allow the Department a minimum of 10 working days to evaluate and approve thermoplastic material. | | | | | |
| SUBSECTION: REVISION: | 837.03.01 Composition. COMPOSITION Table: Replace <table border="1"><tr><td>Lead Chromate</td><td>0.0 max.</td><td>4.0 min.</td></tr></table> with <table border="1"><tr><td>Heavy Metals Content</td><td>Comply with 40 CFR 261</td></tr></table> | Lead Chromate | 0.0 max. | 4.0 min. | Heavy Metals Content | Comply with 40 CFR 261 |
| Lead Chromate | 0.0 max. | 4.0 min. | | | | |
| Heavy Metals Content | Comply with 40 CFR 261 | | | | | |
| SUBSECTION: TABLE: REVISION: | 842.02 APPROVAL. PAINT COMPOSITION Revise the following in the table: Replace the 2.0ΔE* values in the table with 4.0ΔE* for both Yellow and White Paint on both the Daytime and Nighttime Color Spectrophotometer. | | | | | |
| SECTION: REVISION: | DIVISION 800 MATERIAL DETAILS Add the following section in Division 800 SECTION 846 – DURABLE WATERBORNE PAINT 846.01 DESCRIPTION. This section covers quick-drying durable waterborne pavement striping paint for permanent applications. The paint shall be ready-mixed, one-component, 100% acrylic waterborne striping paint suitable for application on such traffic-bearing surfaces as Portland cement concrete, bituminous cement concrete, asphalt, tar, and previously painted areas of these surfaces. 846.02 Approval. Select materials that conform to the composition requirements below. Provide independent analysis data and certification for each formulation stating the total concentration of each heavy metal present, the test method used for each determination, and compliance to 40 CFR 261 for leachable heavy metals content. Submit initial samples for approval before beginning striping | | | | | |

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operations. The initial sample may be sent from the manufacture of the paint. The Department will randomly sample and evaluate the paint each week that the striping operations are in progress.

The non-volatile portion of the vehicle shall be composed of a 100% acrylic polymer as determined by infrared spectral analysis. The acrylic resin used shall be a 100% cross-linking acrylic as evidenced by infrared peaks at wavelengths 1568, 1624, and 1672 cm-1 with intensities equal to those produced by an acrylic resin known to be 100% cross-linking.

| PAINT COMPOSITION | | |
|---|--|---|
| Property and Test Method | Yellow | White |
| Daytime Color (CIELAB) Spectrophotometer using illuminant D65 at 45° illumination and 0° viewing with a 2° observer | L* 81.76 a* 19.79 b* 89.89 Maximum allowable variation 4.0ΔE* | L* 93.51 a* -1.01 b* 0.70 Maximum allowable variation 4.0ΔE* |
| Nighttime Color (CIELAB) Spectrophotometer using illuminant A at 45° illumination and 0° viewing with a 2° observer | L* 86.90 a* 24.80 b* 95.45 Maximum allowable variation 4.0ΔE* | L* 93.45 a* -0.79 b* 0.43 Maximum allowable variation 4.0ΔE* |
| Heavy Metals Content | Comply with 40 CFR 261 | Comply with 40 CFR 261 |
| Titanium Dioxide ASTM D 4764 | NA | 10% by weight of pigment min. |
| VOC ASTM D 2369 and D 4017 | 1.25 lb/gal max. | 1.25 l /gal max. |
| Contrast Ratio (at 15 mils wft) | 0.97 | 0.99 |

846.02.01 Manufacturers Certification. Provide a certification of analysis for each lot of traffic paint produced stating conformance to the requirements of this section. Report the formulation identification, traffic paint trade name, color, date of manufacturer, total quantity of lot produced, actual quantity of traffic paint represented, sampling method utilized to obtain the samples, and data for each sample tested to represent each lot produced.

846.03 ACCEPTANCE PROCEDURES FOR NON-SPECIFICATION DURABLE WATERBORNE PAVEMENT STRIPING PAINT. When non-specification paint is inadvertently incorporated into the work the Department will accept the material with a reduction in pay. The percentage deduction is cumulative based on its compositional properties, but will not exceed 60 percent. The Department will calculate the payment reduction on the unit bid price for the routes where the non-specification paint was used.

| DURABLE WATERBORNE PAVEMENT STRIPING PAINT REDUCTION SCHEDULE | | | | | | |
|---|-------|-------|----------|------------------|-----|----------------------|
| Non-conforming Property | Resin | Color | Contrast | TiO ₂ | VOC | Heavy Metals Content |
| Reduction Rate | 60% | 10% | 10% | 10% | 60% | 60% |

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|--|--|
| APPENDIX A: PART: REVISION: | TABLUTION OF CONSTRUCTION TOLERANCES. 601.03.03 Replace with the following: Concrete accuracy of individual ingredient material for each batch. ± 2.0% for aggregates ± 1.0% for water ± 1.0% for cement in batches of 4 cubic yards or greater ± 1.0% for total cementitious materials in batches of 4 cubic yards or greater 0.0% to + 4.0% for cement in batches less than 4 cubic yards 0.0% to + 4.0% for total cementitious materials in batches less than 4 cubic yards ± 3.0% for admixtures |
| APPENDIX A: PART: REVISION: | TABLUTION OF CONSTRUCTION TOLERANCES. 601.03.03 C) 2) Delete |

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

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ATTACHMENTS

- A. Employment Preference for Appalachian Contracts
(included in Appalachian contracts only)

I. GENERAL

1. 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.
2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.
3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.
4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:
- Section I, paragraph 2;
Section IV, paragraphs 1, 2, 3, 4, and 7;
Section V, paragraphs 1 and 2a through 2g.
5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 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 DOL, or the contractor's employees or their representatives.
6. **Selection of Labor:** During the performance of this contract, the contractor shall not:

- a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or
- b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

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 and 41 CFR 60) 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 Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American 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 State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.
- b. The contractor will accept as his 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, preapprenticeship, and/or on-the-job training."
2. **EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO 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 minority group employees.

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 minority groups 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 minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group 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, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group 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 his 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 his avenues of appeal.

6. **Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

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. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

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 minority group and women employees 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 his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. 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 best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best 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 SHA 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 minority and women 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 minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) 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 SHA.

8. 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.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. 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 completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

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

(1) The number 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;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA 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. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers 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 (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) 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. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, 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 paragraphs 4 and 5 of this Section IV.

b. 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.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification 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 DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour 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.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional 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. Said 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

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

a. 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 or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a 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.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

(1) 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 DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/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 Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees 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 employee 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 listed in 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 or subcontractor 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-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) 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 journeyman-level 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 for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) 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 DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. 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.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level 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-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor 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. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under an approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. 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.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor 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, as 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 SHA contracting officer 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.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her 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, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies 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 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof 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. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found 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 and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices, trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

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

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such 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 the Regulations, 29 CFR 3;

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

e. 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 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, 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 SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions 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.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:

a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.

b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.

c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

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 State. 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).

a. "Its own organization" shall be construed to include only workers employed and paid directly 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, assignee, or agent of the prime contractor.

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 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 VII 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 SHA 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 SHA 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 SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

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 SHA 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. 333).

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. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

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, the following notice 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:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

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 not more than \$10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions:

(Applicable to all Federal-aid contracts - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary 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 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 primary 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 department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary 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," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which

this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary 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 primary 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 Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

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 may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. 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.

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.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgement 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;
 - c. 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 1b of this certification; and
 - d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the prospective primary 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 Covered Transactions:

(Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

- 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," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

- 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.
- 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 may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
- 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 Covered Transactions:

- 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 participation in this transaction 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.

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(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 his or her bid or proposal that he or she 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.

**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

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: KY100214 08/19/2011 KY214

State: Kentucky

Construction Type: Highway

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

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

| Modification Number | Publication Date |
|---------------------|------------------|
| 0 | 10/22/2010 |
| 1 | 01/28/2011 |
| 2 | 03/25/2011 |
| 3 | 04/01/2011 |
| 4 | 05/27/2011 |
| 5 | 06/03/2011 |
| 6 | 07/01/2011 |
| 7 | 07/08/2011 |
| 8 | 07/22/2011 |
| 9 | 07/29/2011 |
| 10 | 08/05/2011 |
| 11 | 08/12/2011 |
| 12 | 08/19/2011 |

BRIN0004-002 06/01/2011

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

| | Rates | Fringes |
|-----------------|----------|---------|
| BRICKLAYER..... | \$ 28.47 | 12.78 |

BRTN0004-005 05/01/2009

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

| | Rates | Fringes |
|-----------------|----------|---------|
| BRICKLAYER..... | \$ 24.52 | 1.83 |

CARP0357-002 07/01/2011

| | Rates | Fringes |
|--------------------|----------|---------|
| CARPENTER..... | \$ 25.95 | 13.22 |
| Diver..... | \$ 39.30 | 13.22 |
| PILEDRIVERMAN..... | \$ 26.20 | 13.22 |

ELEC0369-006 05/26/2010

BUTLER, EDMONSON, LOGAN, TODD & WARREN COUNTIES:

| | Rates | Fringes |
|------------------|----------|---------|
| ELECTRICIAN..... | \$ 29.27 | 13.08 |

ELEC0429-001 02/01/2010

ALLEN & SIMPSON COUNTIES:

| | Rates | Fringes |
|------------------|----------|---------|
| ELECTRICIAN..... | \$ 21.85 | 10.35 |

* ELEC0816-002 06/01/2011

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

| | Rates | Fringes |
|------------------|----------|------------|
| ELECTRICIAN..... | \$ 29.47 | 25.5%+5.35 |

Cable spicers receive \$.25 per hour additional.

ELEC1701-003 06/01/2010

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

| | Rates | Fringes |
|------------------------|----------|-------------|
| ELECTRICIAN | | |
| Electrician..... | \$ 29.01 | 27.85%+5.34 |
| Heilarc Welding; Cable | | |
| Splicing..... | \$ 29.26 | 27.85%+5.34 |

ELEC1925-002 06/01/2009

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

| | Rates | Fringes |
|--------------------|----------|---------|
| CABLE SPLICER..... | \$ 25.00 | 10.27 |
| ELECTRICIAN..... | \$ 24.50 | 10.26 |

ENGI0181-017 07/01/2011

| Rates | Fringes |
|-------|---------|
|-------|---------|

Operating Engineer:

| | | |
|--------------|----------|-------|
| GROUP 1..... | \$ 26.50 | 13.00 |
| GROUP 2..... | \$ 24.08 | 13.00 |
| GROUP 3..... | \$ 24.46 | 13.00 |
| GROUP 4..... | \$ 23.82 | 13.00 |

OPERATING ENGINEER CLASSIFICATIONS

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

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

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

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

CRANES - with booms 150 ft. & Over (Including JIB), and where

the length of the boom in combination with the length of the piling equals or exceeds 150 ft. - \$1.00 above Group 1 rate

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

IRON0070-005 06/01/2011

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

| | Rates | Fringes |
|-------------------------|----------|---------|
| Ironworkers: | | |
| Structural; Ornamental; | | |
| Reinforcing; Precast | | |
| Concrete Erectors..... | \$ 25.77 | 18.28 |

IRON0103-004 04/01/2011

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

| | Rates | Fringes |
|-------------------|----------|---------|
| Ironworkers:..... | \$ 28.25 | 14.475 |

IRON0492-003 05/01/2009

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

Chalybeate & Rocky Hill);
MUHLENBERG COUNTY (Southern eighth, including the Townships of
Dunnior, Penrod & Rosewood)

| | Rates | Fringes |
|-------------------|----------|---------|
| Ironworkers:..... | \$ 22.50 | 9.60 |

IRON0782-006 05/01/2011

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

| | Rates | Fringes |
|---|----------|---------|
| Ironworkers: | | |
| Projects with a total contract cost of | | |
| \$20,000,000.00 or above..... | \$ 26.00 | 17.42 |
| All Other Work..... | \$ 24.66 | 16.29 |

LABO0189-005 07/01/2010

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

| | Rates | Fringes |
|--------------|----------|---------|
| Laborers: | | |
| GROUP 1..... | \$ 20.13 | 10.83 |
| GROUP 2..... | \$ 20.30 | 10.83 |
| GROUP 3..... | \$ 20.43 | 10.83 |
| GROUP 4..... | \$ 21.03 | 10.83 |

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement
Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter
Tender; Cement Mason Tender; Cleaning of Machines;
Concrete; Demolition; Dredging; Environmental - Nuclear,
Radiation, Toxic & Hazardous Waste - Level D; Flagperson;
Grade Checker; Hand Digging & Hand Back Filling; Highway
Marker Placer; Landscaping, Mesh Handler & Placer; Puddler;
Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail
& Fence Installer; Signal Person; Sound Barrier Installer;
Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper;

Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer);
Brickmason Tender; Mortar Mixer Operator; Scaffold Builder;
Burner & Welder; Bushhammer; Chain Saw Operator; Concrete
Saw Operator; Deckhand Scow Man; Dry Cement Handler;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Level C; Forklift Operator for Masonary; Form Setter;
Green Concrete Cutting; Hand Operated Grouter & Grinder
Machine Operator; Jackhammer; Pavement Breaker; Paving
Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven
Georgia Buggy & Wheel Barrow; Power Post Hole Digger;
Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind
Trencher; Sand Blaster; Concrete Chipper; Surface
Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite
Operator & Mixer; Grout Pump Operator; Blaster; Side Rail
Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free
Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Levels A & B; Miner & Driller (Free Air); Tunnel Blaster;
& Tunnel Mucker (Free Air); Directional & Horizontal
Boring; Air Track Drillers (All Types); Powdermen &
Blasters; Troxler & Concrete Tester if Laborer is Utilized

LABO0189-006 07/01/2010

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

| | Rates | Fringes |
|--------------|----------|---------|
| Laborers: | | |
| GROUP 1..... | \$ 21.16 | 9.80 |
| GROUP 2..... | \$ 21.41 | 9.80 |
| GROUP 3..... | \$ 21.46 | 9.80 |
| GROUP 4..... | \$ 22.06 | 9.80 |

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement
Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter
Tender; Cement Mason Tender; Cleaning of Machines;
Concrete; Demolition; Dredging; Environmental - Nuclear,
Radiation, Toxic & Hazardous Waste - Level D; Flagperson;
Grade Checker; Hand Digging & Hand Back Filling; Highway
Marker Placer; Landscaping, Mesh Handler & Placer; Puddler;
Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail
& Fence Installer; Signal Person; Sound Barrier Installer;
Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper;
Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer);
Brickmason Tender; Mortar Mixer Operator; Scaffold Builder;
Burner & Welder; Bushhammer; Chain Saw Operator; Concrete

Saw Operator; Deckhand Scow Man; Dry Cement Handler;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Level C; Forklift Operator for Masonary; Form Setter;
Green Concrete Cutting; Hand Operated Grouter & Grinder
Machine Operator; Jackhammer; Pavement Breaker; Paving
Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven
Georgia Buggy & Wheel Barrow; Power Post Hole Digger;
Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind
Trencher; Sand Blaster; Concrete Chipper; Surface
Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite
Operator & Mixer; Grout Pump Operator; Blaster; Side Rail
Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free
Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Levels A & B; Miner & Driller (Free Air); Tunnel Blaster;
& Tunnel Mucker (Free Air); Directional & Horizontal
Boring; Air Track Drillers (All Types); Powdermen &
Blasters; Troxler & Concrete Tester if Laborer is Utilized

LABO0189-007 07/01/2010

CRITTENDEN, HENDERSON, UNION & WEBSTER COUNTIES

| | Rates | Fringes |
|--------------|----------|---------|
| Laborers: | | |
| GROUP 1..... | \$ 20.31 | 10.65 |
| GROUP 2..... | \$ 20.56 | 10.65 |
| GROUP 3..... | \$ 20.61 | 10.65 |
| GROUP 4..... | \$ 21.21 | 10.65 |

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement
Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter
Tender; Cement Mason Tender; Cleaning of Machines;
Concrete; Demolition; Dredging; Environmental - Nuclear,
Radiation, Toxic & Hazardous Waste - Level D; Flagperson;
Grade Checker; Hand Digging & Hand Back Filling; Highway
Marker Placer; Landscaping, Mesh Handler & Placer; Puddler;
Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail
& Fence Installer; Signal Person; Sound Barrier Installer;
Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper;
Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer);
Brickmason Tender; Mortar Mixer Operator; Scaffold Builder;
Burner & Welder; Bushhammer; Chain Saw Operator; Concrete
Saw Operator; Deckhand Scow Man; Dry Cement Handler;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Level C; Forklift Operator for Masonary; Form Setter;
Green Concrete Cutting; Hand Operated Grouter & Grinder
Machine Operator; Jackhammer; Pavement Breaker; Paving
Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven
Georgia Buggy & Wheel Barrow; Power Post Hole Digger;
Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind

Trencher; Sand Blaster; Concrete Chipper; Surface
Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite
Operator & Mixer; Grout Pump Operator; Blaster; Side Rail
Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free
Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Levels A & B; Miner & Driller (Free Air); Tunnel Blaster;
& Tunnel Mucker (Free Air); Directional & Horizontal
Boring; Air Track Drillers (All Types); Powdermen &
Blasters; Troxler & Concrete Tester if Laborer is Utilized

PAIN0032-002 05/01/2010

BALLARD COUNTY

| | Rates | Fringes |
|---------------------|----------|---------|
| Painters: | | |
| Bridges..... | \$ 30.56 | 13.95 |
| All Other Work..... | \$ 28.26 | 13.95 |

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

PAIN0118-003 05/01/2010

EDMONSON COUNTY:

| | Rates | Fringes |
|---|----------|---------|
| Painters: | | |
| Brush & Roller..... | \$ 18.50 | 10.30 |
| Spray, Sandblast, Power Tools, Waterblast & Steam Cleaning..... | \$ 19.50 | 10.30 |

PAIN0156-006 04/01/2010

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

| | Rates | Fringes |
|-----------------|----------|---------|
| Painters: | | |
| BRIDGES | | |
| GROUP 1..... | \$ 25.60 | 10.05 |
| GROUP 2..... | \$ 25.85 | 10.05 |
| GROUP 3..... | \$ 26.60 | 10.05 |
| GROUP 4..... | \$ 27.60 | 10.05 |
| ALL OTHER WORK: | | |
| GROUP 1..... | \$ 25.60 | 11.30 |
| GROUP 2..... | \$ 25.85 | 11.30 |
| GROUP 3..... | \$ 26.60 | 11.30 |
| GROUP 4..... | \$ 27.60 | 11.30 |

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Plasterers

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

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

PAIN0456-003 07/01/2011

ALLEN, BUTLER, LOGAN, MUHLENBERG, SIMPSON, TODD & WARREN
COUNTIES:

| | Rates | Fringes |
|---|----------|---------|
| Painters: | | |
| BRIDGES | | |
| Brush & Roller..... | \$ 22.55 | 9.65 |
| Spray; Sandblast; Power Tools; Waterblast & Steam Cleaning..... | \$ 23.55 | 9.65 |
| ALL OTHER WORK | | |
| Brush & Roller..... | \$ 17.55 | 9.65 |
| Spray; Sandblast; Power Tools; Waterblast & Steam Cleaning..... | \$ 18.55 | 9.65 |

ALL OTHER WORK - HIGH TIME PAY
Over 35 feet (up to 100 feet) - \$1.00 above base wage
100 feet and over - \$2.00 above base wage

DURING SPRAY PAINTING AND SANDBLASTING OPERATIONS, POT
TENDERS SHALL RECEIVE THE SAME WAGE RATES AS THE SPRAY
PAINTER OR NOZZLE OPERATOR

PAIN0500-002 07/01/2011

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

| | Rates | Fringes |
|---------------------|----------|---------|
| Painters: | | |
| Bridges..... | \$ 25.25 | 11.55 |
| All Other Work..... | \$ 19.00 | 11.55 |

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

PLUM0184-002 07/01/2011

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

| | Rates | Fringes |
|---------------------------|----------|---------|
| Plumber; Steamfitter..... | \$ 31.45 | 13.99 |

PLUM0502-004 08/01/2011

ALLEN, BUTLER, EDMONSON, SIMPSON & WARREN

| | Rates | Fringes |
|---------------------------|----------|---------|
| Plumber; Steamfitter..... | \$ 31.00 | 16.13 |

PLUM0633-002 07/01/2011

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

| | Rates | Fringes |
|-------------------------|----------|---------|
| PLUMBER/PIPEFITTER..... | \$ 29.22 | 12.65 |

TEAM0089-003 03/31/2008

| | Rates | Fringes |
|----------------|-------|---------|
| Truck drivers: | | |

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

| | | |
|--------------|----------|-------|
| Group 1..... | \$ 19.04 | 12.02 |
| Group 2..... | \$ 19.37 | 12.02 |
| Group 3..... | \$ 19.44 | 12.02 |
| Group 4..... | \$ 19.45 | 12.02 |
| Group 5..... | \$ 19.50 | 12.02 |

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

| | | |
|--------------|----------|------|
| Group 1..... | \$ 23.89 | 4.15 |
| Group 2..... | \$ 24.12 | 4.15 |
| Group 3..... | \$ 24.19 | 4.15 |
| Group 4..... | \$ 24.20 | 4.15 |

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

| | | |
|--------------|----------|------|
| Group 1..... | \$ 19.23 | 9.20 |
| Group 2..... | \$ 19.46 | 9.20 |
| Group 3..... | \$ 19.53 | 9.20 |
| Group 4..... | \$ 19.54 | 9.20 |

TRUCK DRIVER CLASSIFICATIONS FOR ALLEN, BUTLER, EDMONSON,
LOGAN, SIMPSON & WARREN COUNTIES

GROUP 1 - Greaser, Tire Changer

GROUP 2 - Truck Mechanic

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

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

GROUP 5 - Euclid and Other Heavy Earth Moving Equipment; Low
Boy; Articulator Cat; Five Axle Vehicle

TRUCK DRIVER CLASSIFICATIONS FOR BALLARD, CALLOWAY, CALDWELL,
CARLISLE, CHRISTIAN, CRITTENDEN, FULTON, GRAVES, HICKMAN,
LIVINGSTON, LYON, MARSHALL, MCCracken, TODD & TRIGG COUNTIES

GROUP 1 - Greaser; Tire Changer

GROUP 2 - Truck Mechanic

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

GROUP 4 - Euclid and Other Heavy Earth Moving Equipment; Low
Boy; Articulator Cat; Five Axle Vehicle; Winch and A-Frame
when used in transporting materials; Ross Carrier

TRUCK DRIVER CLASSIFICATIONS FOR DAVIESS, HANCOCK, HENDERSON,
HOPKINS, MCLEAN, MUHLENBERG, OHIO, UNION & WEBSTER COUNTIES

GROUP 1 - Greaser, Tire Changer

GROUP 2 - Truck Mechanic

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

GROUP 4 - Euclid and Other Heavy Earth moving Equipment;
Lowboy; Articulator Cat; 5 Axle Vehicle; Winch and A-Frame
when used in transporting materials; Ross Carrier; Fork
Lift when used to transport building materials; Driver on
Pavement Breaker

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 (29 CFR 5.5(a)(1)(ii)).

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In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

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WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party

(those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7).

Write to:

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

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

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

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

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

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-11-I-HWY dated August 04, 2011

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.

Ryan Griffith, Director
Division of Construction Procurement
Frankfort, Kentucky 40622

**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 |
|--|-------|---|
| Ballard, Calloway, Carlisle, Graves, McCracken and Marshall - | 5.2% | |
| Trigg - | 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 Various Counties.

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

KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS
FRANKFORT, KY 40622

CONTRACT ID: 112911
COUNTY: VARIOUS
PROPOSAL: 121GR11M111-BRO

PAGE: 1
LETTING: 09/23/11
CALL NO: 202

| LINE NO | ITEM | DESCRIPTION | APPROXIMATE UNIT QUANTITY | UNIT PRICE | AMOUNT |
|---------------------|-------|--------------------------------------|---------------------------|------------|--------|
| SECTION 0001 BRIDGE | | | | | |
| 0010 | 00071 | CRUSHED AGGREGATE SIZE NO 57 | 695.000 TON | | |
| 0020 | 02267 | REMOVE & RESET FENCE | 40.000 LF | | |
| 0030 | 02483 | CHANNEL LINING CLASS II | 20.000 TON | | |
| 0040 | 02484 | CHANNEL LINING CLASS III | 2,910.000 TON | | |
| 0050 | 02596 | FABRIC-GEOTEXTILE TYPE I | 1,970.000 SQYD | | |
| 0060 | 02650 | MAINTAIN & CONTROL TRAFFIC B133N | (1.00) LS | | |
| 0070 | 02650 | MAINTAIN & CONTROL TRAFFIC B15N | (1.00) LS | | |
| 0080 | 02650 | MAINTAIN & CONTROL TRAFFIC B17N | (1.00) LS | | |
| 0090 | 02650 | MAINTAIN & CONTROL TRAFFIC B18N | (1.00) LS | | |
| 0100 | 02650 | MAINTAIN & CONTROL TRAFFIC B196N | (1.00) LS | | |
| 0110 | 02650 | MAINTAIN & CONTROL TRAFFIC B32N | (1.00) LS | | |
| 0120 | 02650 | MAINTAIN & CONTROL TRAFFIC B41N | (1.00) LS | | |
| 0130 | 02650 | MAINTAIN & CONTROL TRAFFIC B66N | (1.00) LS | | |
| 0140 | 02650 | MAINTAIN & CONTROL TRAFFIC B78N | (1.00) LS | | |
| 0150 | 02650 | MAINTAIN & CONTROL TRAFFIC B84N | (1.00) LS | | |
| 0160 | 02650 | MAINTAIN & CONTROL TRAFFIC B85N | (1.00) LS | | |
| 0170 | 02650 | MAINTAIN & CONTROL TRAFFIC B86N | (1.00) LS | | |
| 0180 | 02650 | MAINTAIN & CONTROL TRAFFIC B99N | (1.00) LS | | |
| 0190 | 02650 | MAINTAIN & CONTROL TRAFFIC KY 358 | (1.00) LS | | |
| 0200 | 03235 | EXCAVATION AND BACKFILL | 185.000 CUYD | | |

KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS
FRANKFORT, KY 40622

CONTRACT ID: 112911
COUNTY: VARIOUS
PROPOSAL: 121GR11M111-BRO

PAGE: 2
LETTING: 09/23/11
CALL NO: 202

| LINE NO | ITEM | DESCRIPTION | APPROXIMATE UNIT QUANTITY | UNIT PRICE | AMOUNT |
|-----------------------------|---------|--------------------------------|---------------------------|------------|--------|
| 0210 | 05985 | SEEDING AND PROTECTION | 1,000.000 SQYD | | |
| 0220 | 08100 | CONCRETE-CLASS A | 133.000 CUYD | | |
| 0230 | 08104 | CONCRETE-CLASS AA | 16.000 CUYD | | |
| 0240 | 08150 | STEEL REINFORCEMENT | 4,750.000 LB | | |
| 0250 | 21600EN | SHEET PILING | 800.000 LF | | |
| 0260 | 24004EC | DRIFT/SEDIMENT REMOVAL | 66.000 CUYD | | |
| 0270 | 24004EC | DRIFT/SEDIMENT REMOVAL | 57.000 CUYD | | |
| 0280 | 24004EC | DRIFT/SEDIMENT REMOVAL | 89.000 CUYD | | |
| 0290 | 24004EC | DRIFT/SEDIMENT REMOVAL | 1,500.000 CUYD | | |
| 0300 | 24004EC | DRIFT/SEDIMENT REMOVAL | 38.000 CUYD | | |
| 0310 | 24004EC | DRIFT/SEDIMENT REMOVAL | 20.000 CUYD | | |
| 0320 | 24004EC | DRIFT/SEDIMENT REMOVAL | 5.000 CUYD | | |
| 0330 | 24004EC | DRIFT/SEDIMENT REMOVAL | 210.000 CUYD | | |
| 0340 | 24004EC | DRIFT/SEDIMENT REMOVAL | 413.000 CUYD | | |
| 0350 | 24004EC | DRIFT/SEDIMENT REMOVAL | 6.000 CUYD | | |
| 0360 | 24004EC | DRIFT/SEDIMENT REMOVAL | 13.000 CUYD | | |
| 0370 | 24004EC | DRIFT/SEDIMENT REMOVAL | 5.000 CUYD | | |
| SECTION 0002 DEMOBILIZATION | | | | | |
| 0380 | 02569 | DEMOBILIZATION (AT LEAST 1.5%) | LUMP | | |
| | | TOTAL BID | | | |