

CALL NO. 300

CONTRACT ID. 192254

HARDIN COUNTY

FED/STATE PROJECT NUMBER FD04 047 31WB 000-001

DESCRIPTION HARDIN COUNTY (US 31WB)

WORK TYPE JPC PAVEMENT REPAIRS - DIAMOND GRINDING

PRIMARY COMPLETION DATE 7/31/2020

# LETTING DATE: October 25,2019

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

NO PLANS ASSOCIATED WITH THIS PROJECT.

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

### TABLE OF CONTENTS

### PART I SCOPE OF WORK

- PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES
- CONTRACT NOTES
- STATE CONTRACT NOTES
- NATIONAL HIGHWAY
- SIGNIFICANT PROJECT -PROJECT TRAFFIC COORDINATOR
- SURFACING AREAS
- ASPHALT MIXTURE
- INCIDENTAL SURFACING
- JPC PAVEMENT SMOOTHNESS
- COMPACTION OPTION B
- SPECIAL NOTE(S) APPLICABLE TO PROJECT
- LIQUIDATED DAMAGES
- WASTE AND BORROW SITES
- COORDINATION OF WORK WITH OTHER CONTRACTS
- ASPHALT MILLING AND TEXTURING
- TYPICAL SECTION DIMENSIONS
- TRAFFIC CONTROL PLAN
- EROSION CONTROL PLAN FOR MAINTENANCE PROJECTS
- SKETCH MAP(S)
- SUMMARY SHEET(S)
- TYPICAL SECTION(S)
- DETAIL SHEET(S)

### PART II SPECIFICATIONS AND STANDARD DRAWINGS

- SPECIFICATIONS REFERENCE
- SUPPLEMENTAL SPECIFICATION
- [SN-1I] PORTABLE CHANGEABLE SIGNS
- [SN-11J] FULL DEPTH CONCRETE PAVEMENT REPAIR
- 2016 STANDARD DRAWINGS THAT APPLY
- TYPICAL MARKINGS FOR TURN LANES

### PART III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

- LABOR AND WAGE REQUIREMENTS
- EXECUTIVE BRANCH CODE OF ETHICS
- KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY / STATE
- PROJECT WAGE RATES / STATE FUNDED

### PART IV INSURANCE

### PART V BID ITEMS

# PART I SCOPE OF WORK

### **ADMINISTRATIVE DISTRICT - 04**

CONTRACT ID - 192254 FD04 047 31WB 000-001

**COUNTY - HARDIN** 

PCN - MP04731WB1901 FD04 047 31WB 000-001

ELIZABETHTOWN BYPASS (US 31WB) (MP 0.000) FROM KY 1136 EXTENDING NORTH TO THE SOUTH END OF THE BRIDGE OVER THE WESTERN KENTUCKY PARKWAY (MP 0.246), A DISTANCE OF 0.25 MILES.JPC PAVEMENT REPAIRS - DIAMOND GRINDING

GEOGRAPHIC COORDINATES LATITUDE 37:40:37.00 LONGITUDE 85:51:37.00

### **COMPLETION DATE(S):**

SPECIFIED COMPLETION DATE ALL

COMPLETED BY 07/31/2020 ITEMS IN CONTRACT

LANE CLOSURES DURING

0 WORKING Hours PROHIBTED HOURS

FAILURE TO REPLACE FAILED

0 WORKING Days REMOVABLE STRIPING TAPE

# **CONTRACT NOTES**

### PROPOSAL ADDENDA

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

### **BID SUBMITTAL**

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

### JOINT VENTURE BIDDING

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

### UNDERGROUND FACILITY DAMAGE PROTECTION

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

### REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

### SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to <a href="mailtokytc.projectquestions@ky.gov">kytc.projectquestions@ky.gov</a>. 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 (<a href="www.transportation.ky.gov/contract">www.transportation.ky.gov/contract</a>). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

### **HARDWOOD REMOVAL RESTRICTIONS**

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

### INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

### ACCESS TO RECORDS

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

HARDIN COUNTY FD04 047 31WB 000-001

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

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

April 30, 2018

### SPECIAL NOTE FOR RECIPROCAL PREFERENCE

# RECIPROCAL PREFERENCE TO BE GIVEN BY PUBLIC AGENCIES TO RESIDENT BIDDERS

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the electronic bidding software. Submittal of the Affidavit should be done along the bid in Bid Express.

April 30, 2018

HARDIN COUNTY FD04 047 31WB 000-001 Contract ID: 192254 Page 9 of 104

### NATIONAL HIGHWAY

Be advised that Ramp "D" on project FD04 047 31WB 000-001 is on the NATIONAL HIGHWAY SYSTEM.

### PROJECT TRAFFIC COORDINATOR (PTC)

Be advised that this is a significant project pursuant to section 112.03.12.

### SURFACING AREAS

The Department estimates the mainline and ramp surfacing width to vary 12-48 feet.

The Department estimates the total mainline and ramp area to be surfaced with JPC Pavement-9" to be 1,185 square yards.

The Department estimates the shoulder width to be 11 feet on each side.

The Department estimates the total shoulder area to be surfaced with asphalt pavement to be 1,030 square yards.

### ASPHALT MIXTURE

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

### INCIDENTAL SURFACING

The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches, as applicable. Pave these areas to the limits as shown on Standard Drawing RPM-110-07 or as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, pave the crossroads to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. Surface or resurface these areas as directed by the Engineer. The Department will not measure placing and compacting for separate payment but shall be incidental to the Contract unit price for the asphalt mixtures.

### JPC PAVEMENT SMOOTHNESS

JPC Pavement Smoothness requirements (Category B) shall apply on this project in accordance with Section 501 of the 2019 Standard Specifications.

### **OPTION B**

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

### SPECIAL NOTE FOR JPC PAVEMENT

# THIS PROJECT IS A PARTIALLY CONTROLLED ACCESS HIGHWAY

### I. DESCRIPTION

Except as specified herein, construct Jointed Plain Concrete (JPC) Pavement in accordance with the Department's 2019 Standard and Supplemental Specifications, Special Provisions and Special Notes, and Standard and Sepia Drawings, current editions, and as directed by the Engineer. Section references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for the following work:

- (1) Maintain and control traffic; (2) Site Preparation and Erosion Control; and
- (3) Remove existing PCC pavement and replace with JPC Pavement-9 Inch;
- (4) Construct Edge Drain Sytem; (5) Partial Depth Patching; (6) Diamond Grind JPC Pavement; (7) Saw, clean, and Reseal existing joints; and (6) All other work specified as part of this contract.

### II. MATERIALS

The Department will sample and test all materials according to the Department's Sampling Manual. Make the materials available for sampling a sufficient time in advance of use, to allow for the necessary time for testing, unless otherwise specified in these notes.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Erosion Control.** See Special Note for Erosion Control.
- **C. Crushed Stone Base.** Furnish Crushed Stone Base. Do **NOT** furnish Dense Graded Aggregate in lieu of Crushed Stone Base.
- **D. JPC Pavement-9 Inch.** See Special note for Full Depth Concrete Pavement Repair 11J. Use Class P or Class A Concrete. At the Contractor's request and at no additional cost to the Department, the Engineer may approve high early strength rapid setting concrete; however, the Engineer will not approve chloride accelerators. The Department will allow either central mixing or truck mixing.
- **E. Joint Sealant.** Use Hot-Poured Elastic, no alternate.
- **F. Partial Depth Patching.** Use Fibercrete (marketingassociatesinc.com).

Contract ID: 192254 Page 11 of 104

JPC Pavement Page 2 of 6

**G. Edge Drains.** See Section 704.

### III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Erosion Control.** See Special Note for Erosion Control.
- **C. Site Preparation.** Be responsible for all site preparation, including but not limited to, incidental excavation and backfilling; removal of all obstructions or any other items; disposal of materials; sweeping and removal of debris; temporary and permanent erosion and pollution control; final dressing, clean up, and seeding; and all incidentals. Perform all Site Preparation only as approved or directed by the Engineer. See Special Note for Erosion Control.
- **D. Pavement Removal.** Consider pavement removal locations and dimensions shown on the drawings to be approximate only; the Engineer will determine exact locations and dimensions at the time of construction and mark areas to be removed. Prior to removal, saw-cut existing pavement at locations directed by the Engineer to provide a neat edge where new concrete will adjoin existing pavement. Remove existing pavement and underlying DGA or other stone base as necessary to provide for the specified thickness of the replacement JPC Pavement without unnecessarily disturbing the remaining base by any method approved by the Engineer.
- **E. Preparation of Base.** Immediately after pavement removal, compact the existing aggregate base to the Engineer's satisfaction. The Engineer will accept compaction by either visual inspection or by nuclear gauge. When the Engineer deems it necessary to stabilize the existing base, use Crushed Stone Base. The Contractor may use flowable fill and cement stabilization as an alternative to stabilize the existing base or to replace unsuitable materials, at the Contractors request and at no additional cost to the Department when a plan for such is presented to and approved by the Engineer. During compaction, wet the base as the Engineer directs. Compact areas not accessible to compaction equipment by hand tamping.
- **F. JPC Pavement.** Except as provided herein, construct JPC Pavement-9 Inch according to the Special note for Full Depth Concrete Pavement Repair 11J. Prior to pavement removal and placing JPC Pavement, obtain the Engineer's approval of proposed method of construction for ensuring and establishing a smooth profile. Immediately after removing pavement, stabilize any exposed DGA base as directed by the Engineer and place JPC. Install dowel bars and tie bars according to the Standard Drawings in both pavement and shoulders. Do not allow an area with removed pavement within (10) ten feet of traffic during non-working hours. If any such areas exist, perform pavement removal, base stabilization, and construct the JPC Pavement as one continuous operation. Construct the replacement JPC Pavement to be a minimum

JPC Pavement Page 3 of 6

depth of 9 inches after Diamond Grinding; however, transition the finished grade to match adjacent pavement that is to remain in place; therefore, the actual thickness of the pavement may be greater than 9 inches in some areas. Consolidate the concrete, strike off, machine finish with a vibrating or roller screed, and straightedge the plastic concrete with a straightedge conforming to Section 501.02.18. The Department will not require texturing, use a broom finish. Do not seal the joints until after Diamond Grinding. Test the profile of the finished pavement according to Section 501.03.19. Provide positive drainage upon completion of construction.

- **G. Curing.** Use curing blankets only. Do not use burlap curing or white membrane curing compound. If the Contractor elects to us JPC Pavement 24/48/72, cure as follows when overnight ambient temperatures are expected to be below 50 °F:
  - 1) When overnight ambient temperatures are expected to be below 50 °F, cover the concrete with one of the following:
    - a) 1 layer of closed-cell polystyrene foam protected by at least one layer of plastic film;
    - b) 2 layers of burlap covered with one layer of 4-mil plastic;
    - c) 3 inches of hay or straw covered with one layer of 4-mil plastic;
    - d) a Department approved alternate.
  - 2) When overnight ambient temperatures are expected to be below 40 °F, cover the concrete with one of the following:
    - a) 2 layers of closed-cell polystyrene foam protected by at least one layer of plastic film;
    - b) 4 layers of burlap covered with one layer of 4-mil plastic;
    - c) 6 inches of hay or straw covered with 4-mil plastic;
    - d) a Department approved alternative.

The Department will allow placement of the insulating cover to be delayed for up to 4 hours to accommodate sawing joints. The Department will allow temporary removal of the cover to accommodate sawing and sealing joints. The Department will allow permanent removal of the cover when the concrete attains the required opening strength of 3,000 psi.

- **H. Joints in New JPC.** Saw joints in the new JPC according to Special note for Full Depth Concrete Pavement Repair 11J. After Diamond Grinding, Clean and seal the joint with Hot-poured Elastic after Diamond Grinding.
- **I. Diamond Grinding.** Perform Diamond Grinding on the new JPC and existing PCCP Pavements. See Special Note for Diamond Grinding.
- **J. Ride Quality.** See Section 501.03.19, category B (after Diamond Grinding).
- **K. Joints in Existing PCCP.** See Special Note for Diamond Grinding.

JPC Pavement Page 4 of 6

- **L. Partial Depth Patching.** Perform partial depth patching at sites designated by the Engineer at the time of construction according to the manufacturer's specifications.
- **M. Edge Drain.** Construct edge drain system on the right side of the new pavement in the vicinity of Bush Lane. The Engineer will determine the exact termini of the system at the time of construction. See Special Note for Edge Drain, the drawings, and Section 704.
- **N. Disposal of Waste.** Dispose of all waste and debris off the right-of-way at sites obtained by the Contractor at no additional cost to the Department. See Special Note for Waste and Borrow and Special Note for Concrete Slurry.
- **O. Pavement Markings.** See Traffic Control Plan.
- **P. On-Site Inspection.** Prior to submitting a bid, make a thorough inspection of the site and become thoroughly familiar with the existing conditions so that the work can be expeditiously performed after contract award. The Department will consider submission of a bid as evidence of this inspection having been made. The Department will not honor any claims resulting from site conditions.
- **Q. Property Damage and Restoration.** Be responsible for all damage to public and/or private property resulting from the work. Repair or replace all damaged roadway features in like kind materials and design at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner at no additional cost to the Department or the owner.
- **R.** Caution. Consider information shown on the drawings and in this proposal and the types and quantities of work listed are approximate only, and not as an accurate or complete evaluation of the material and conditions to be encountered during construction. The bidder must draw his own conclusion as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation or Contract time if the conditions encountered are not in accordance with the information shown.
- **S.** Utility Clearance. Determine the location of all underground and overhead utilities prior to construction. It is not anticipated that utility facilities will need to be relocated and/or adjusted; however, in the event that work does require relocation and/or adjustment, the utility companies will work concurrently with the Contractor while relocating their facilities.
- **T. Final Dressing, Clean Up, and Seeding and Protection.** After all work is completed, remove all waste and debris from the construction sites. Remove all temporary shoulder widening and restore disturbed shoulders. Perform Class A final dressing on all disturbed areas. Sow disturbed earthen areas according to the Special Note for Erosion Comtrol.

Contract ID: 192254 Page 14 of 104

JPC Pavement Page 5 of 6

### IV. METHOD OF MEASUREMENT

The Department will measure only the bid items listed. All other items required to complete the construction shall be incidental to the listed bid items.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Site Preparation.** Other than the bid items listed, The Department will not measure Site Preparation for payment, but shall be incidental to the other items of the work.
- C. Crushed Stone Base. See Section 302.04.02.
- **D. Erosion Control.** See Special Note for Erosion Control.
- **E. Remove Pavement.** The Department will measure the actual quantity of removed pavement in square yards regardless of type. The Department will not measure removal of underlying base material but shall be incidental to Remove Pavement.
- **F. JPC Pavement-9 Inch.** See Special Note for Full Depth Concrete Pavement Repair 11J, except the Department will measure the actual pavement area.
- **G. Joint Sealing.** The Department will not measure sawing, cleaning, and sealing joints in new JPC Pavement-9 Inch for payment, but shall be incidental to JPC Pavement-9 Inch.
- **H. Smooth Dowels, Deformed Tie Bars, and Hook Bolts.** The Department will not measure smooth dowels, deformed tie bars and hook bolts, but shall be incidental to JPC Pavement-9 Inch.
- I. Edge Drains. See Special Note For Edge Drain.
- J. Diamond Grinding. See Special Note foe Diamond Grinding.
- **K. Saw, Clean, and Re-sealing Existing Joints.** See Special Note foe Diamond Grinding.
- **L. Partial Depth Patching.** The department will measure Partial Depth Patching in Cubic Feet.

Contract ID: 192254 Page 15 of 104

JPC Pavement Page 6 of 6

### IV. BASIS OF PAYMENT

The Department will make payment only for the bid items listed. All other items required to complete the construction shall be incidental to the bid items listed.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Erosion Control.** See Special Note for Erosion Control.
- C. Crushed Stone Base. See Section 302.05.
- **D. Remove Pavement.** Accept payment at the Contract unit price per square yard as full compensation for all labor, materials, equipment, and incidentals for removing and disposing of pavement and underlying base materials.
- E. JPC Pavement-9 Inch. See Special Note for Full Depth Concrete Pavement Repair 11J,
- **F. Diamond Grinding.** See Special Note for Diamond Grinding..
- **G. Edge Drains.** See Special Note for Edge Drain.
- **H. Partial Depth Patching.** Accept payment at the Contract unit price per Cubic Foot as full compensation for all labor, materials, equipment, and incidentals for removing and disposing of PCC Pavement and placing Partial Depth Patches.

### SPECIAL NOTE FOR DIAMOND GRINDING

### I. DESCRIPTION

Except as specified herein, Diamond Grind new JCP and existing PCCP pavements in accordance with the Department's 2019 Standard and Supplemental Specifications, Special Provisions and Special notes, and Standard and Sepia Drawings, current editions, and as directed by the Engineer. Section references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for the following work:

(1) Maintain and Control Traffic; (2) Diamond Grind new JPC pavement and existing JPC pavement to remain in place; and (3) All other work specified as part of this contract.

### II. MATERIALS

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Joint Sealant.** Use Hot-Poured Elastic, no alternate.
- **B. Erosion Control.** See Special Note for Erosion Control.

### III. CONSTRUCTION

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Diamond Grinding.** See Section 503.03.01 through 501.03.04 and the Special Note for Concrete Slurry. Diamond Grind the entire area of new JCP and existing PCCP on Ramp D and between KY 1136 and the Western Kentucky Parkway overpass.
- **C. Joint Sealing.** See Section 501.03.18, except use hot-poured elastic only, no alternate.
- **D. Texture.** See Section 503.03.07.
- **E. Alignment Tolerances.** See Section 503.03.08.
- **F. Ride Quality.** See Section 503.03.09 for Category B.
- **G. Pavement Markings.** See Section 503.03.06. Before opening to traffic apply temporary painted markings or the permanent markings.

Diamond Grinding Page 2 of 2

### IV. MEASUREMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Diamond Grinding.** See Section 503.04.01 except the Department will field measure the actual area ground.
- **C. Joint Sealing.** The Department will **NOT** measure cleaning and sealing the joints in the new JPC pavement. The Department will measure sawing, cleaning, and sealing joints in the existing PCCP Pavement according to section 503.04.02.
- **D. Pavement Markings.** The Department will **NOT** measure temporary painted pavement markings. For permanent pavement markings, see the Traffic Control Plan and Section 717.05.

### V. PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Diamond Grinding.** See Section 503.05.
- **C. Joint Sealing.** The Department will **NOT** make payment for cleaning and sealing the joints in the new JPC pavement. The Department will measure sawing, cleaning, and sealing joints in the existing PCCP Pavement according to section 503.05.
- **D. Pavement Markings.** See the traffic Control Plan and Section 717.04.

### SPECIAL NOTE FOR CONCRETE SLURRY

If Diamond Grinding, Pavement Grooving or any other process which produces slurry is required on roadways or bridges, ensure that all concrete slurry associated with these processes is collected, managed, and disposed of appropriately. Dispose of the waste material at a permitted disposal facility, in accordance with the 2019 Kentucky Standard Specifications for Road and Bridge Construction and the Environmental Performance Standards outlined in 401 KAR 47:030, or manage as a material for beneficial reuse. Be responsible for any fines or remediation related to improper disposal at no additional cost to the Department.

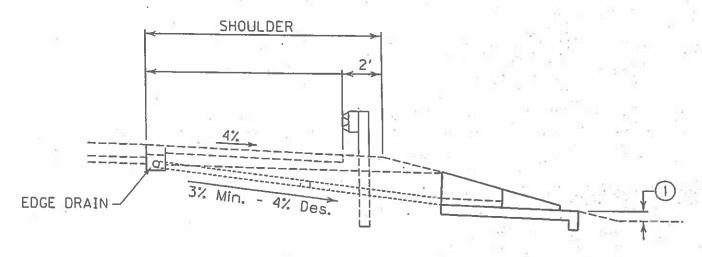
The Department will not measure for payment disposal of concrete slurry, but shall be considered incidental to other bid items.

### SPECIAL NOTE FOR EDGE DRAIN

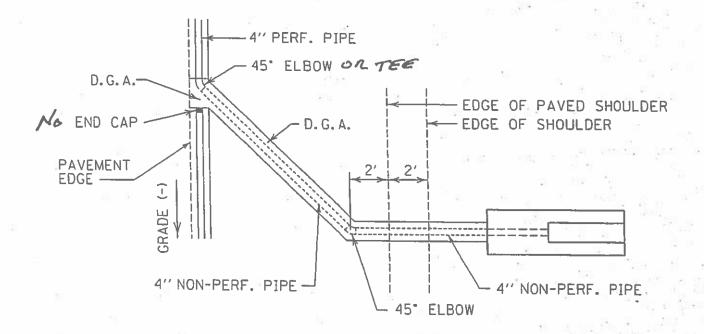
Construct a Perforated Pipe Edge Drain System according to Section 704.03.02 as shown on the Detail Drawing and as directed by the Engineer. Use 4" perforated pipe with aggregate fill for trench wrapped in Geotextile Fabric Type IV according to Section 704.02.04; do not use perforated pipe with sock or natural sand. Outlet the Perforated Pipe with Non-Perforated Pipe and a Perforated Pipe Headwalls. The Department will measure Perforated Pipe and Non-Perforated Pipe for Edge Drains, Perforated Pipe Headwalls, Crushed Aggregate Size No. 2, and Inspect and Certify Edge Drain System according to 704.04. The Department will **NOT** measure Structure Excavation, course aggregate and geotextile fabric for payment. The Department will make payment for Perforated Pipe and Non-Perforated Pipe, Perforated Pipe Headwalls, Crushed Aggregate Size No. 2, and Inspect and Certify Edge Drain System according to Section 704.05.

# LONGITUDINAL PAVEMENT EDGE DRAIN (PERFORATED PIPE) (EXISTING PAVEMENT)

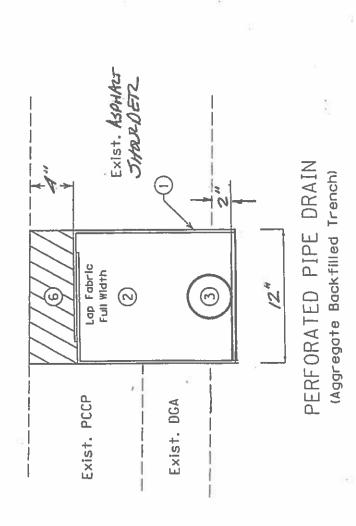
FD04 047 31WB 000-001



1 6" MINIMUM FREEBOARD TO THE BOTTOM OF THE DITCH.



PAGEL OF 3



Exist. PCCR

Exist. DCA

Exist. DCA

(5) -1

Shoul DENC

(12")

Matural Sand Backfilled Transchi

米() FABRIC-GEOTEXTILE TYPE IV

\* (2) CRUSHED AGGREGATE SIZE NO. 57 (No Sand)

3) 1000 PERFORATED PIPE- 4" (No Sock)

Compacted Natural Sand Backfill-

**\*** 

NOTE: THESE ITEMS (米) CONSIDERED INCIDENTAL TO PERFORATED PIPE -

S 1000 PEREORATED PIPE- 4" (WIth spec.

6 21.455 2 ASPHART BASE 1,00 D PAG4-27 EDGE DRAIN CAP

# PAVEMENT EDGE DRAIN

Existing Pavement

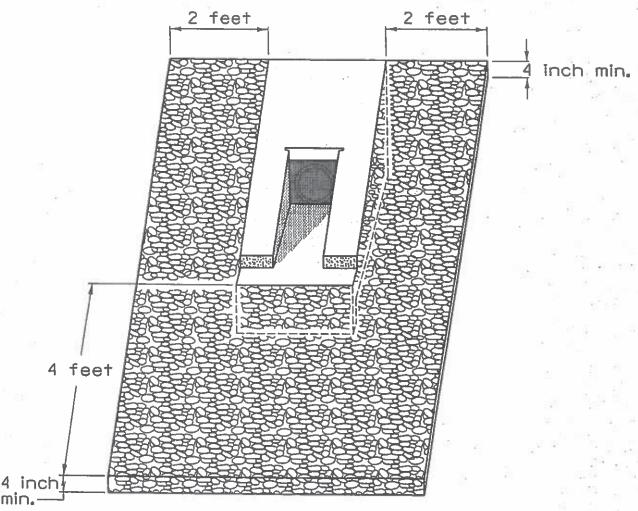
# SPECIAL NOTE FOR PAVEMENT SUBSURFACE DRAINAGE OUTLET

Use approximately one ton of Crushed Aggregate Size No. 2 at all Perforated Pipe Headwall Outlets as illustrated in the detail below. Place Crushed Aggregate Size No. 2 to a minimum depth of 4" as detailed below.

Use Dense Graded Aggregate (DGA) removed during placement of the Crushed Aggreagate Size No. 2 to dress existing shoulders where DGA is exposed. Waste other materials removed during placement of the Crushed Aggregate Size No. 2 as directed by the Engineer. The Department will make no direct payment for disposal of wasted material.

The Department will consider payment for Crushed Aggregate Size No. 2 as full compensation for all materials, labor, and other incidentals necessary to place Crushed Aggregate Size No. 2 for vegetation control and/or erosion control at payement edge drain outlets.

See current Standard Drawing RDP-010 for dimensions and other details.



PERFORATED PIPE HEADWALL OUTLET

PAGE 30F3

### SPECIAL NOTE FOR LIQUIDATED DAMAGES

Do not perform any work in calendar year 2019. The overall completion day for all items in the Contract is July 31, 2020. The Department will assess Liquidated Damages in the amount specified in Section 108.09.

In addition to the requirements of Section 108.09, the Department will assess Liquidated Damages in the amount of \$1,000 per hour or part of an hour for each hour that a lane closure remains in place during hours prohibited by the Traffic Control Plan. A lane closure shall be defined as any traffic control device or Contract worker or vehicle in the traveled way that could potentially impact the flow of traffic. This includes, but not limited to, signs, barricades, barrels, cones, arrow boards, flaggers, Contractor work vehicles, and striping operations.

In addition to the requirements of Section 108.09, the Department will assess Liquidated Damages in the amount of \$500 per calendar day that removable temporary striping tape that becomes damaged or fails to adhere remains un-replaced beyond dusk on the day of notification.

The Department will apply all liquidated damages accumulatively.

All other applicable portions of Section 108 apply.

HARDIN COUNTY FD04 047 31WB 000-001

### SPECIAL PROVISION FOR WASTE AND BORROW SITES

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

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

### COORDINATION OF WORK WITH OTHERS

Be advised, there may be active project(s) adjacent to or within this project. These may be KYTC administered contracts, work being performed as part of a KYTC issued encroachment permit, or work being performed by Department forces. The Engineer will coordinate the work of any other Contractors, permit holders, or the Department' forces. See Sections 105.06, 107.06 and 107.14 of the 2019 Standard Specifications.

### SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING

Perform Asphalt Milling and Texturing adjacent to the new JPC Pavement on northbound US 31WB at Bush Lane after installation of the Edge Drain System. Begin paving operations within 48 hours of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, the Department will assess liquidated damages at the rate of \$750 per calendar day until such time as paving operations are begun.

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

HARDIN COUNTY FD04 047 31WB 000-001 Contract ID: 192254 Page 27 of 104

### SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

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

 $\begin{array}{c} 1\text{--}3725 \ Typical \ Section \ Dimensions} \\ 01/02/2012 \end{array}$ 

### TRAFFIC CONTROL PLAN

# THIS PROJECT IS A PARTIALLY CONTROLLED ACCESS HIGHWAY

### TRAFFIC CONTROL GENERAL

Except as provided herein, maintain and control traffic in accordance with the 2019 Standard and Supplemental Specifications and the Standard and Sepia Drawings, current editions. 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, furnish new, or used in like new condition, traffic control devices at the beginning of the work and maintain in like new condition until completion of the work.

### TRAFFIC COORDINATOR

Furnish a Traffic Coordinator for a Classified Project according to Section 112.03.12. The Traffic Coordinator shall inspect the project maintenance of traffic, at least three times daily, or as directed by the Engineer, during the Contractor's operations and at any time a lane closure is in place. The personnel shall have access on the project to a radio or telephone to be used in case of emergencies or accidents. The Traffic Coordinator shall report all incidents throughout the work zone to the Engineer on the project. The Contractor shall furnish the name and telephone number where the Traffic Coordinator can be contacted at all times

### **CONSTRUCTION PROCEDURES**

Prior to beginning work, informally partner with the Engineer and obtain his approval of phasing and a work plan to accomplish the work with the least possible disruption to traffic.

The Engineer may specify days and hours when lane closures will not be allowed.

For each full depth JPC Pavement site within ten (10) feet of traffic, remove pavement, stabilize the base, and place and cure JPC pavement in one continuous operation at each location.

Maintain a minimum of one lane of traffic in each direction on US 31WB. Maintain alternating one-way traffic on KY 1136 when required by actual construction in progress. Maintain one lane of traffic on Ramp "D" at all times. Provide minimum clear lane widths of ten (10) feet; however, provide for passage of vehicles of up to 16 feet in width. If traffic is stopped due to construction

Traffic Control Plan Page 2 of 11

operations, and a school bus on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

The Contractor may request that trucks over 10,000 pounds gross vehicle weight (GVW) and all over-dimensional vehicles be prohibited on ramp "D" during construction. Fourteen (14) calendar days prior to restricting traffic, partner with the Engineer to develop a Signing Plan and Work Schedule to expedite the work and minimize disruption to traffic.

Night work may be required for portions of the work on this project. Obtain the Engineer's approval of the method of lighting prior to performing night work.

### LANE & SHOULDER CLOSURES

Only one lane of US 31WB may be closed concurrently in each direction unless otherwise directed or permitted specified by the Engineer. If necessary, perform multiple pours per lane in order to maintain traffic in all directions and at all approaches.

Except for JPC curing, do not leave lane and shoulder closures in place during non-working hours.

Do not store materials or equipment on shoulders during non-working hours. Contrary to Section 112.04.17, the Department will not measure Long Term Lane Closures for payment, but shall be incidental to Maintain and Control Traffic.

### PUBLIC INFORMATION PLAN

The Department will prepare a Public Information Plan and provide public notification. Submit the approved Phasing and work plan for the Engineer's approval 14 calendar days prior to beginning work. Notify the Engineer immediately and obtain prior approval of any deviations from the previously approved closure schedule.

### **SIGNS**

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

Traffic Control Plan Page 3 of 11

### **CHANGEABLE MESSAGE SIGNS**

Provide changeable message signs in advance of and within the project at locations determined by the Engineer. If work is in progress concurrently in both directions or if more than one lane closure is in place in the same direction of travel, provide additional changeable message signs as directed by the Engineer. The Engineer may vary the designated locations as the work progresses. The Engineer will determine the messages to be displayed. In the event of damage or mechanical/electrical failure, repair or replace the Changeable Message Sign within 24 hours. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Changeable Message Signs only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged Changeable Message Signs or for signs the Engineer directs be replaced due to poor condition or readability. Retain possession of the Changeable Message Signs upon completion of the work.

### **ARROW PANELS**

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. The Department will measure for payment the maximum number of Arrow Panels in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Arrow Panels only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged Arrow Panels or for panels signs the Engineer directs be replaced due to poor condition or readability for payment. Retain possession of the Arrow Panels upon completion of the work.

### **BARRICADES**

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

The Department will measure barricades used to protect pavement removal areas and road closures in individual units Each. The Department will measure for payment the maximum number of barricades in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual barricades only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged barricades the Engineer directs to be replaced due to poor condition or reflectivity. Retain possession of the Barricades upon completion of the work.

Traffic Control Plan Page 4 of 11

### **TEMPORARY ENTRANCE**

Maintain direct access to Bush Lane at all times. The Department will measure asphalt materials required to provide temporary access; however, the Department will not measure aggregates, excavation, and/or embankment, or temporary pipe, but shall be incidental to Maintain and Control Traffic. The Engineer will determine the type of surfacing material, asphalt or aggregate to be used, and the size of pipe.

### INTERSECTION MARKINGS

Consider the locations listed on the summary as approximate only. Prior to construction, locate and document the locations of the existing markings. After Diamond Grinding, replace the markings at their approximate existing locations or as directed by Engineer. Place markings not existing prior to resurfacing as directed by the Engineer. Place Durable Type I Tape markings on JPC pavement and Thermoplastic markings on asphalt pavement.

### PAVEMENT STRIPING

If there is to be a deviation from the existing striping plan, the Engineer will furnish the Contractor a striping plan prior to removal and placement of the JPC. Install Temporary Striping according to Section 112 with the following exceptions:

- 1. Place Temporary or Permanent Striping before opening a lane to traffic; and
- 2. Include Edge Lines In Temporary Striping; and
- 3. Place 6 inch lines for Permanent and Temporary Striping; and
- 4. Temporarily cover skip and solid lines through the length of the tapers for lane closures and other striping that is to remain in place after construction as directed by the Engineer with 6" black removable tape.
- 5. If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course, use an approved removable lane tape.
- 6. Consider permanent removal of all other pavement striping for traffic control incidental to Maintain and Control Traffic.
- 7. The Contractor shall replace any temporary striping that becomes damaged or fails to adhere to the pavement before dark on the day of the notification.

### PAVEMENT EDGE DROP-OFFS

Do not allow a pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation with an elevation difference greater than 1½". Place Warning signs (MUTCD W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual post the signs on both sides of the traveled way. Wedge all transverse

Traffic Control Plan Page 5 of 11

transitions between resurfaced and unresurfaced areas which traffic may cross with asphalt surface mixtures. Remove the wedges prior to placement of the final surface course.

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

Less than 2" - No protection required.

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

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

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

Traffic Control Plan Page 6 of 11

### USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

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

### **Application**

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

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

### CMS should not be used for:

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

HARDIN COUNTY FD04 047 31WB 000-001 Contract ID: 192254 Page 34 of 104

# Traffic Control Plan Page 7 of 11

### **Messages**

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

- Visible for at least ½ mile under ideal daytime and nighttime conditions
- Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- Nor more than two message panels should be used (three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- Do not use the sign for two unrelated messages
- Should not scroll text horizontally or vertically
- Should not contain both the words left and right
- Use standardized abbreviations and messages
- Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- Avoid use of speed limits
- Use words (not numbers) for dates

### **Placement**

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

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

•

# Traffic Control Plan Page 8 of 11

### **Standard Abbreviations**

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

Word	Abbrev.	<b>Example</b>
Access	ACCS	ACCIDENT AHEAD/USE ACCS RD
		NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/USE ALT RTE
		NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/DETOUR
D1 1 1	DI IID	NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/USE ALT RTE
Cardinal Directions	N, S, E, W	N I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/USE I275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3 MI
Construction	CONST	CONST WORK AHEAD/EXPECT
		DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND I64 CLOSED/DETOUR
		EXIT 20
Emergency	EMER	EMER VEH AHEAD/PREPARE TO STOP
Entrance, Enter	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/DETOUR
		EXIT 10
Freeway	FRWY, FWY	GN SYNDR FWY CLOSED/DETOUR
•		EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ALL TRAF
		EXIT 25
Highway	HWY	ACCIDENT ON AA HWY/EXPECT
		DELAYS
Hour	HR	ACCIDENT ON AA HWY/2 HR
		DELAY
Information	INFO	TRAF INFO TUNE TO 1240 AM
Interstate	I	E-BND I64 CLOSED/DETOUR
		EXIT 20
Lane	LN	LN CLOSED/MERGE LEFT
Left	LFT	LANE CLOSED/MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/SLOW
Major	MAJ	MAJ DELWAYS 175/USE ALT RTE
Mile	MI	ACCIDENT 3 MI AHEAD/ USE

# Traffic Control Plan Page 9 of 11

		ALT RTE
Minor	MNR	ACCIDENT 3 MI MNR DELAY
Minutes	MIN	ACCIDENT 3 MI/30 MIN DELAY
Northbound	N-BND	N-BND I75 CLOSED/ DETOUR
		EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/USE 1275
		NEXT RIGHT
Parking	PKING	EVENT PKING NEXT RGT
Parkway	PKWY	CUM PKWAY TRAF/DETOUR
		EXIT 60
Prepare	PREP	ACCIDENT 3 MIL/PREP TO STOP
Right	RGT	EVENT PKING NEXT RGT
Road	RD	HAZMAT IN RD/ALL TRAF EXIT 25
Roadwork	RDWK	RDWK NEXT 4 MI/POSSIBLE
		DELAYS
Route	RTE	MAJ DELAYS I75/USE ALT RTE
Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
Slippery	SLIP	SLIP COND POSSIBLE/ SLOW SPD
Southbound	S-BND	S-BND I75 CLOSED/DETOUR
		EXIT 50
Speed	SPD	SLIP COND POSSIBLE/ SLOW SPD
Street	ST	MAIN ST CLOSED/USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/DETOUR
		EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/USE I275
		NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/DETOUR
		EXIT 50
Work	WRK	CONST WRK 2MI/POSSIBLE
		DELAYS

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

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

Traffic Control Plan Page 10 of 11

### TYPICAL MESSAGES

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

Reason/Problem

ACCIDENT/

ACCIDENT/XX MILES XX ROAD CLOSED XX EXIT CLOSED BRIDGE CLOSED

BRIDGE/(SLIPPERY, ICE, ETC.) CENTER/LANE/CLOSED DELAY(S), MAJOR/DELAYS

DEBRIS AHEAD DENSE FOG

DISABLED/VEHICLE EMER/VEHICLES/ONLY

EVENT PARKING EXIT XX CLOSED FLAGGER XX MILES FOG XX MILES FREEWAY CLOSED

FRESH OIL HAZMAT SPILL

ICE

**INCIDENT AHEAD** 

LANES (NARROW, SHIFT, MERGE, ETC.)

LEFT LANE CLOSED LEFT LANE NARROWS LEFT 2 LANES CLOSED LEFT SHOULDER CLOSED

LOOSE GRAVEL

MEDIAN WORK XX MILES

MOVING WORK ZONE, WORKERS IN ROADWAY

NEXT EXIT CLOSED NO OVERSIZED LOADS

NO PASSING NO SHOULDER ONE LANE BRIDGE PEOPLE CROSSING RAMP CLOSED

RAMP (SLIPPERY, ICE, ETC.)

RIGHT LANE CLOSED

Action

ALL TRAFFIC EXIT RT AVOID DELAY USE XX CONSIDER ALT ROUTE

**DETOUR** 

DETOUR XX MILES DO NOT PASS EXPECT DELAYS FOLLOW ALT ROUTE

KEEP LEFT
KEEP RIGHT
MERGE XX MILES
MERGE LEFT
MERGE RIGHT
ONE-WAY TRAFFIC
PASS TO LEFT
PASS TO RIGHT
PREPARE TO STOP
REDUCE SPEED

**SLOW** 

SLOW DOWN
STAY IN LANE
STOP AHEAD
STOP XX MILES
TUNE RADIO 1610 AM
USE NN ROAD
USE CENTER LANE
USE DETOUR ROUTE
USE LEFT TURN LANE
USE NEXT EXIT
USE RIGHT LANE

WATCH FOR FLAGGER

### Traffic Control Plan Page 11 of 11

**RIGHT LANE NARROWS** 

RIGHT SHOULDER CLOSED

ROAD CLOSED

ROAD CLOSED XX MILES

ROAD (SLIPPERY, ICE, ETC.)

**ROAD WORK** 

ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)

ROAD WORK XX MILES

SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)

**NEW SIGNAL XX MILES** 

SLOW 1 (OR 2) - WAY TRAFFIC

**SOFT SHOULDER** 

STALLED VEHICLES AHEAD

TRAFFIC BACKUP

TRAFFIC SLOWS

TRUCK CROSSING

TRUCKS ENTERING

TOW TRUCK AHEAD

**UNEVEN LANES** 

WATER ON ROAD

WET PAINT

WORK ZONE XX MILES

**WORKERS AHEAD** 

### SPECIAL NOTE FOR EROSION CONTROL

### I. DESCRIPTION

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

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

### II. MATERIALS

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

### III. CONSTRUCTION

Be advised, these Erosion Control Plan Notes do not constitute a BMP plan for the project. Jointly with the Engineer, prepare a site specific BMP plan for each drainage area within the project in accordance with Section 213. Provide a unique BMP at each project site using good engineering practices taking into account existing site conditions, the type of work to be performed, and the construction phasing, methods and techniques to be utilized to complete the work. Be responsible for all erosion prevention, sediment control, and water pollution prevention measures required by the BMP for each site. Represent and warrant compliance with the Clean Water Act (33 USC Section 1251 et seq.), the 404 Permit, the 401 Water Quality Certification, and applicable state and

Erosion Control Page 2 of 3

local government agency laws, regulations, rules, specifications, and permits. Contrary to Section 105.05, in case of discrepancy between theses notes, the Standard Specifications, Interim Supplemental Specifications, Special and Special Notes, Standard and Sepia Drawings, and such state and local government agency requirements, adhere to the most restrictive requirement.

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

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

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

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

Erosion Control Page 3 of 3

### IV. MEASUREMENT

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

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

**Channel Lining.** If required by the BMP, the Department will measure Channel Lining according to Sections 703.04.04-703.04.07.

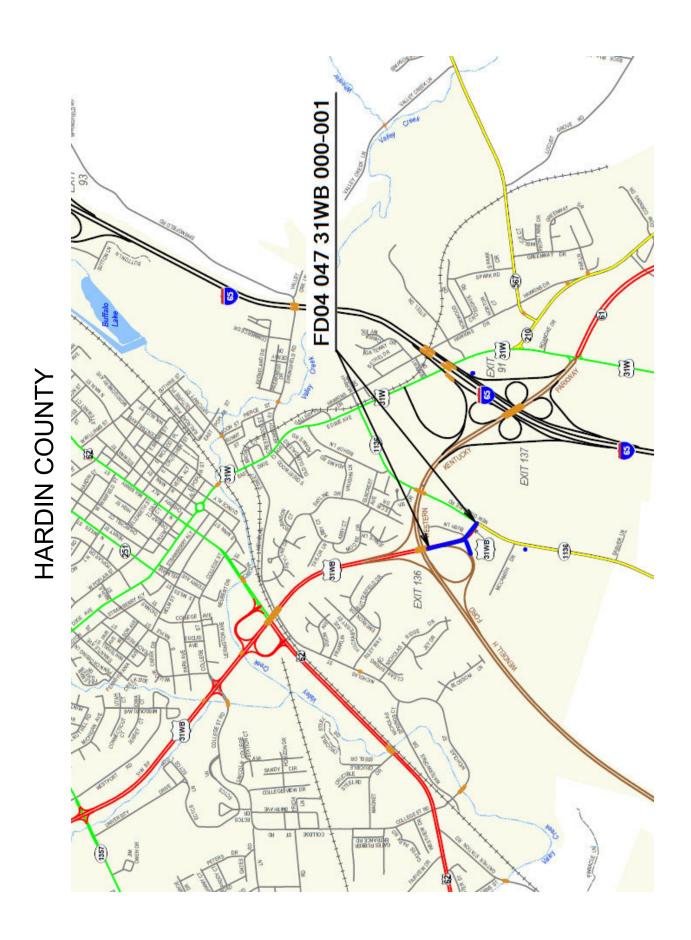
Erosion Control. Contrary to Sections 212.04, 213.04, and 703.04 other than Erosion Control Blankets, Sodding, and Channel Lining, the Department will NOT measure Erosion Control for separate payment. The Department will not measure developing, updating, and maintaining a BMP plan for each site; providing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

### V. BASIS OF PAYMENT

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

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

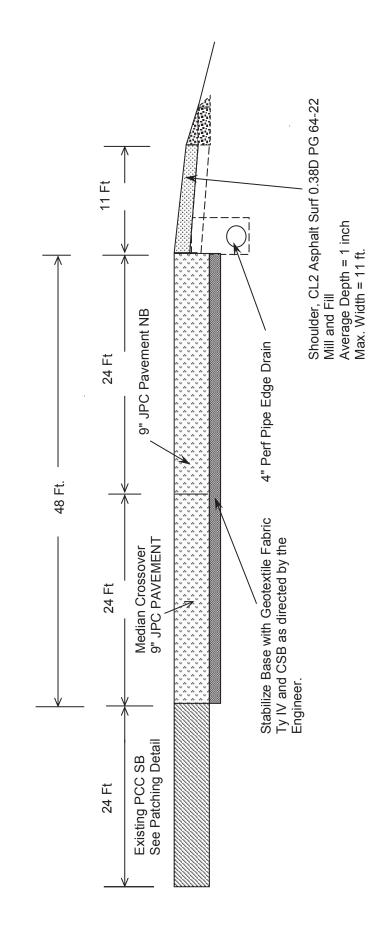
**Channel Lining.** If not listed as a bid item, but required by the BMP, the Department will pay for Channel Lining as Extra Work according to Sections 104.03 and 109.04.



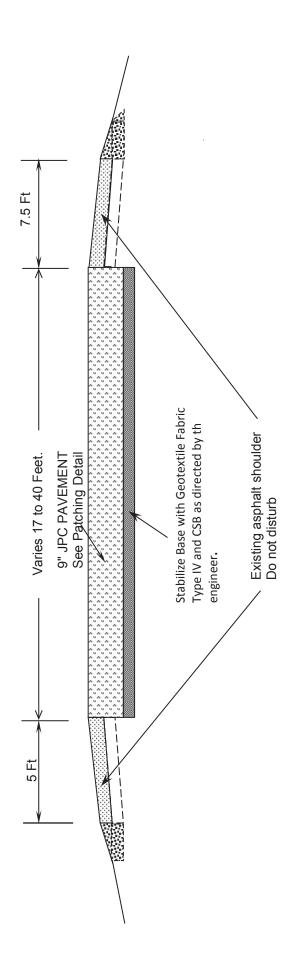
# INTERSECTION PAVEMENT MARKING SUMMARY

	O L	SHOW				
	ARROWS	STR	EA	0	0	0
TYPE 1 TAPE	ARR	CURVE	EA	0	4	4
TYP	STOP BARS	24 INCH	LF	0	38	38
	NS	STR	EA	0	0	o
THERMOPLASTIC	ARROWS	CURVE STR	EA	2	0	2
THERMO	STOP BARS	24 INCH	LF	24	0	24
	I G G L HA	IN ERSECTION		KY 1136	RAMP D	

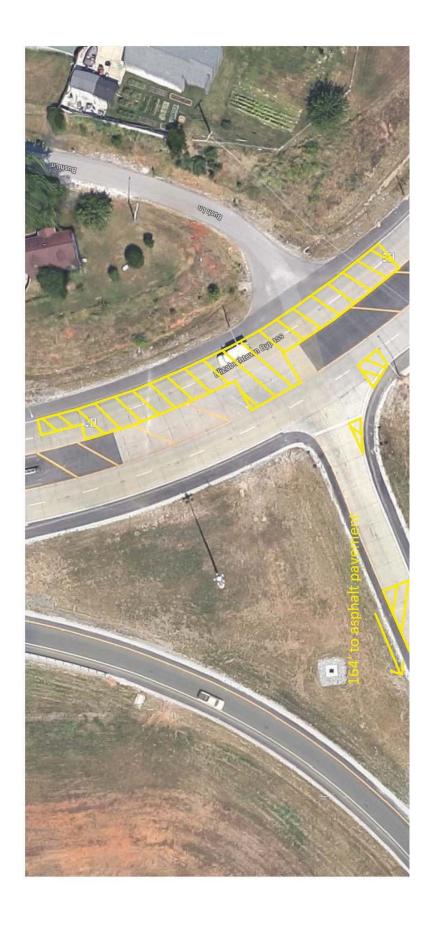
FD05 047 31WB 000-001 Typical Half Section

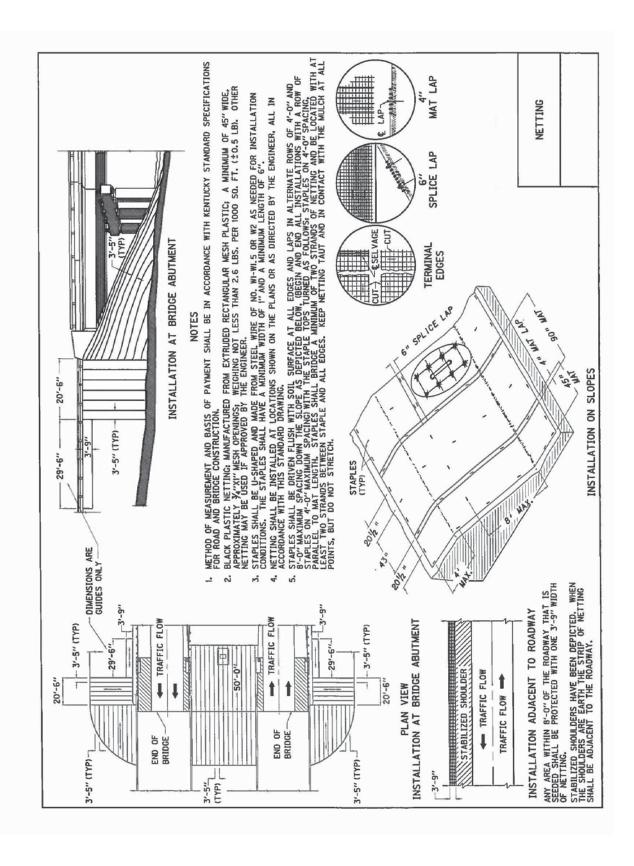


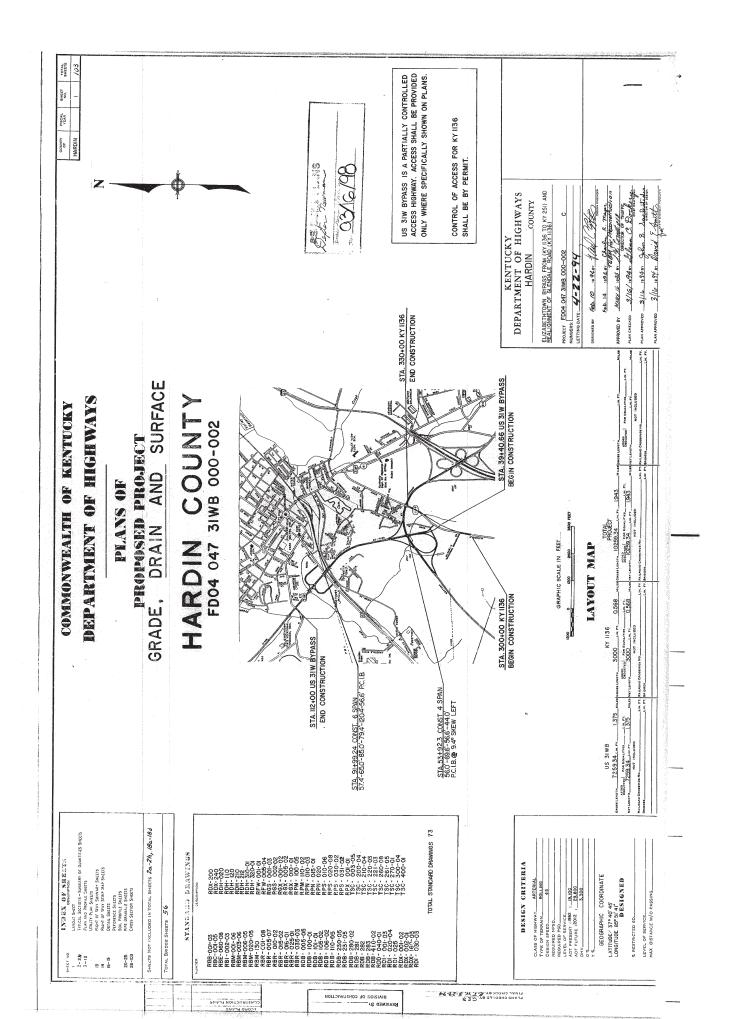
FD05 047 31WB 000-001 Typical Section Ramp "D"

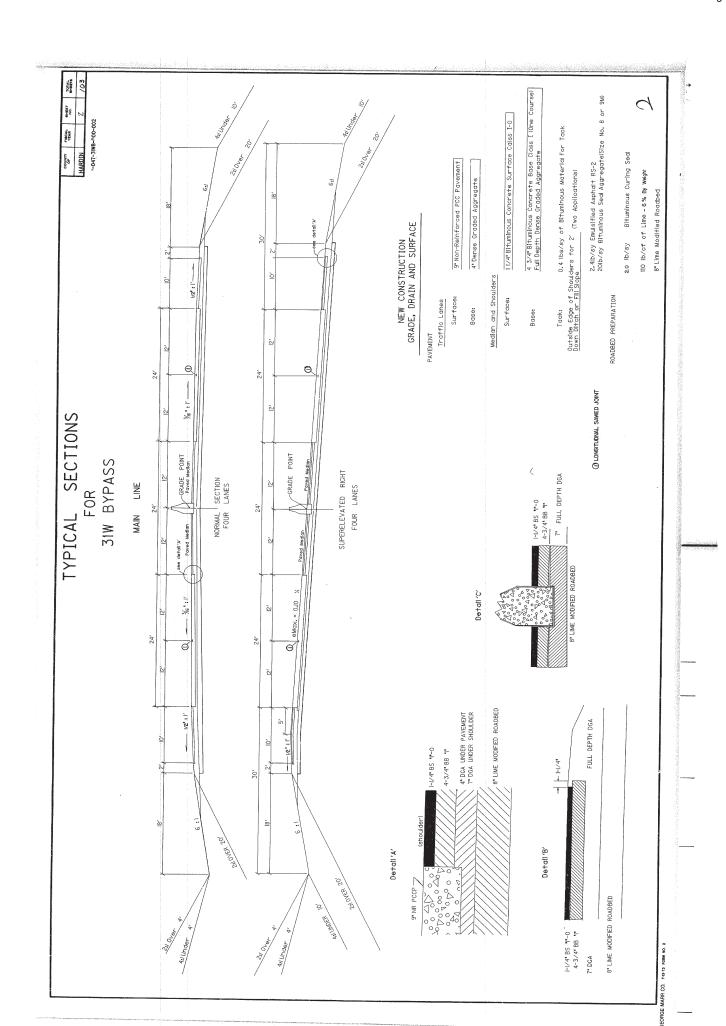


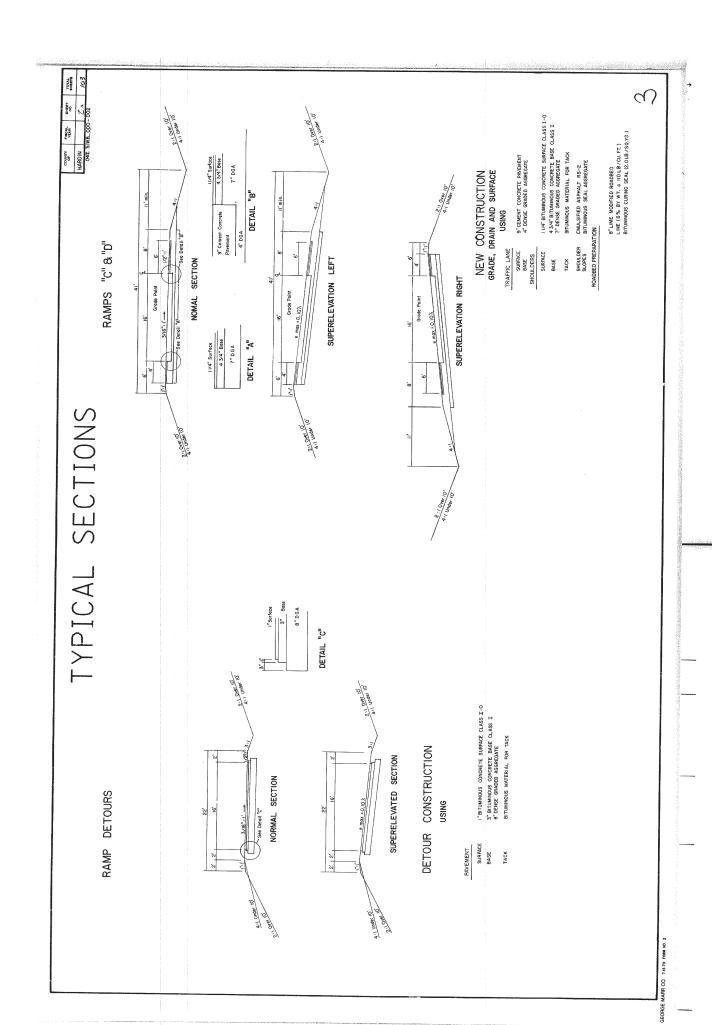
# DETAIL HARDIN US 31WB JPC PAVEMENT

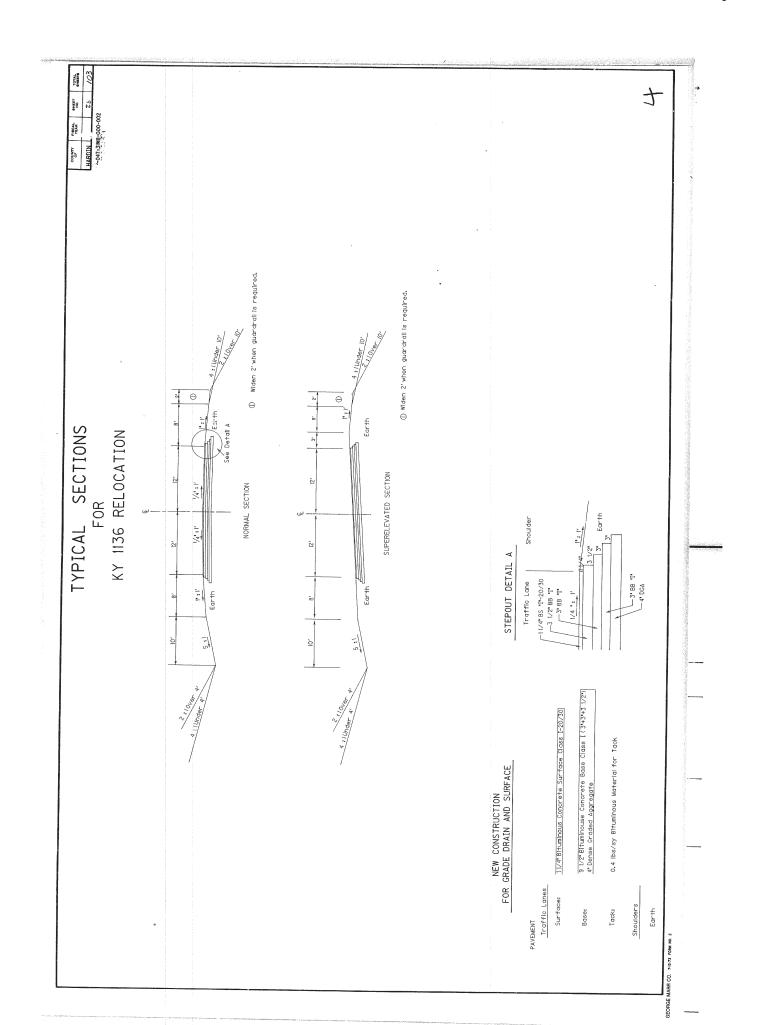












FISCAL SPEET TOTAL YEAR NO. SHEETS	WB 000-002 WR 500-002 RES	MAINTAINING TRAFFIC ONLY.	OR EMB. BEN.	OR EMB BEN.	MAIEU AI 300 LBS	UMMARY SHEE!	ONS	FINANCE	EMBANKMEN	103529	8393 /	255	(37.4	555.4		118536		+ 13039		131575	34335		97240																																	K	)	
COUNTY	FD 04 047 31WB 000-002 APPROXIMATELY 17.2 ACRES	IG TRAFFIC OF	3447 CU.YD. F	385 CU. YU. +	COOM PIPE COLL	FROM PIPE S	:ALCULATI	NOWN.					143	621		34335																																										
	(2) APPROXIMA (2) FOR CONTR	MAINTAINI	(3) INCLUDES	(a) INCLUDES	0012012012012012012012012012012012012012	(a) 3.1 cu. 10.	EARTHWORK CALCULATIONS	7					BIISH LAND				APPARENI	SHKINKAGE (IIZ)ON II8536		TOTAL EMBANKMENT NEEDED	SS AVAILABLE EXC		ADDITIONAL MATERIAL NEEDED																																			
					T	T	T		7	× 1	1		- a	T	'	I	T	r T	T	-:	Ī	T	JA	T		Τ	Γ												_			-	T	T	T	T	T	Ť	T	T	T		T	T	T			
											-		+										Ī			-							-								-				+			1										
																																								1	100																	
		-							+		-			-	-																																				-							
	,				l		+		-		1															-						-		-								+		-	-			-		-		-	-					
										1				-																+		-	-	-		1						-					-	l	1	1		-				-		
									Ī		I																																1				-											
		-																																		1																						
			" work	200	1	1					2020	1			7	1	12.7	1		7	311	1	1/1							1	7	7	-		1/3	1	-					7	1	1	1	1		15										
AARY	TOTAL	O to com	- 100 CO	10 8	28785 487	5000	4ST	1 1 8	+3	7	4730 1152	JES THE	-	-	\$25 Jag	1/82 18	1863- 146	12/2/	-	609 -686	海部 123	1881 1/2	101	ATT 13.6	LP SUN	UP SUM	P Sim	- S. d.	7	7 2	1000 P. 1000 P	160 CON	1		A 17.0 2/	14 C 4666	127	100	1 1 th	14.10	事の事	195%	### 39/3	125C #	35th 4175	187	一大	1.062 34	NINS .	0.88	110-1	40.98 V						
SUMMARY	RIDGE OVERLAY T. STA, 91+99.24	7														-															-		+	Œ	9			1						257 BEAS											+			
GENERAL	PRIDGE OVERLAY E.SP+63.AT8.T.																												1														984	:01098 1000	-986	8	\$	<b>4</b> ¢	9	0.00E	<b>%</b>							
SEN	KA 1136		P DIDEBTE		-	4	4	_		2		1		7	2857.55 V	#	# :	+	+	+	+	事	+	-					1	4000	1	100	7	*	1	+	+	+	#	\$	*																	
	UNIT	LP SUM	OU YO CONTROL	1 1	-	LIN FT +FSH	EACH	EACH &	_		FT 4538 4730-		-	4	+	5 :	2	7	+		+	1	Æ	-	3	A)	- T	+	+	*	H	+	-	e	$\vdash$	⊢	‡	+	_	\$	-	-5960-	0	0	0		-		-		_	.46≍						
	5	l di	00	3	3	CN	20	3	3	EA	LIN FT	చ	5	EACH	5 6	3 6	NO. 1	5	S S	2 8	2 2	3	10K	NOL	LP SUM	NDS dT	3		EK CK	LIN ET	3	ENC	OHE	8	3	189	2	100	87	TON	Or OX	UNFT	OV DS	OL 05	SO YO	SO YO	IN FI	CU YO	LP SUM	CU AD	TON	EACH	1	+				
																-																																							, and the same of			
	ITEM			0																							-																					***************************************										
						-> FACE	0	TIPE 4	TY 2A	TYPE A	E IZC	FELLOW	CANS							10	1 30		-	ננוע	WILL.					(AMENT)	YELLOW	**				CH.		.5				MTE	PILAY	178				-		PATCH		N ANCHOR	-					
		CLEARING AND GRUBBING	EMBANKMENT IN PLACE	MAJER	CTTT	CUMPORAL-STEEL # BEAM-S FACE	CUAROKAL TERMINAL SECT NO	CUANDIAL END INCATABLI ITTE 4	CUANDKAL END THEATMENT TY 2A	CUARDRAIL CON TO BR END TYPE /	CONC MEDIAN BARRIER TYPE IZC	CHINE TO PASSED WITH THE COM	CURB TO BARRIER WALL TRANS	STANDARD NITEGOM CHOS	FR RIPAI TYPE	CHANNEL LINNIG CLASS III			DAVEMENT	SEED AND PROTECT, METHOD 2	-WOVEN WIRE TY.	AGRICII TIIRAL LIMESTONE	IO-20-20	MANTAIN AND CONTROL TOACCIC	IN CONTINUE IN	TOW	DETOUR CONSTRUCTION	CRASH CUSHION TYPE VIC	RROW	4" PAVEMENT STRIPING (PERMANENT)	REMOVABLE STRIPING TAPE-YELLOW	FAVESENT MARKER TYPE V - M W	LEI.	CLASS A	ARDRAIL	SPECIAL SEEDING CROWN VETCH	20-10-10	TEMP EROSION CONTROL-MULCH	CORRECTIVE SEEDING-SEED	SEEDING-STRAW	CHANNEL CHANGE SEEDING	STRIPING TAPE-I	BILL FOREIGN OW	EP OF EXISTING	CLIDOV	N NUMET	NG.	CONCRETE UNENCAT-LATEX	SIEEL	CUNC CLASS AN FULL DEPTH PATCH	INTACE CLASS I	HOOK BOLT WITH EXPAN ANCHOR						
					l			1	1				1			$\perp$	L	L.		_	$\perp$	1	L	L		1	Ĺ		1.												CHANNEL CH	REMOVABLE	NEW EPOXY	MACHINE PRE	CDAY CAM CLIDON	MAT CEALING	JOHN SEALIN	CTOUCHETE UVENIA	STRUCTURAL	CUNC CLASS	EII COME SI	HOOK BOL						
Trouble transmission	LTEM	2545	2230	7477	1000	ICC7	0266	2360	1967 1967	2927	/961	5000	2000	1830	2434	2484	2705	2726	2091	5986	2262	2665	2960	2650	2568	2569	2651	2887	2775	2743	2748	3213	1718	8100	2358	2963	2966	5953	9269	2980		2747	n ico	05.40	9504	9640	0400	9160	0100	9709	R	/807		I				

		761 <del>- E13-</del>	617		-					
200- 200-	1 1	_	<del>-213-</del>						CEMENT CONCRETE ENTRANCE PAVEMENT-8.	1
200-000	1	S1 <del>529 H</del>				SE9*t	0, YD, L	S	P C C PAVEMENT - NON-REINFORCED 9 INCH	570
31WB (	1	99/ -5929					HOA	)	XIM TI8 NOT RBY COA GIRTZ-ITNA	023
04 047		ζ.ε <del>-0.01</del>		-6-19	++*0	36-€	LON		BITUMINOUS MATERIAL FOR TACK	99
							NO		CUTBACK ASPHALT EMUL PRIMER L	967
4	Ξ-Σ	8/ -9-2				-9-2-	LON		EMULSIFIED ASPHALT RS-2	162
	7	18 -513-				<del>2'12</del>	NOT		BITUMINOUS SEAL ACCRECATE	001
	1/0	2 E -418-					LON		TRAFFIC BOUND BASE (2)	SO
	1	0 5.45				-5.45	NOT		SITUMINOUS CURING SEAL	828
	_	0 -665				- 669	NO.	-	LIME	ŧΪ
		Ø <del>₹93 0£</del>				-292-01	20 YD 3		LIME STABILIZED ROADBED	
		-	-				NOT			
							NOT			18
									DRAINAGE BLANKET-TYPE I-UNTR (3)	12
	~~&l.7	8/ 621-51		25-5-5	000	000 (0)	NO1		CBRIZHED 210ME BYZE (1)	3
	/ Jones	002.31		222-0	-055	990,51			(I) BASE	ī
		64 05					NOT		BIT CONC BASE CLASS K	53
	2860	10 Sea		-011'9-	15+	8Z0-9	NOT		BIT CONC BASE CLASS I	SO
							NOT		BIL CONC BINDER CLASS I	30
							NOT		BIL WIX LOB FENEFING 8 MEDGING	06
							NOT		BIL CONC SURFACE CLASS K	25
					-		NOT		BIT CONC SURFACE CLASS A	192
					-		NOT		BIT CONC SURFACE CLASS K/HT	092
					-		NOT		BIT CONC SURFACE CLASS AV HT	
							NOT			6+3
									BIT CONC SURFACE CLASS AK/HT	842
							NOT		BIT CONC SURFACE CLASS AK	745
							NOT		BII CONC SURFACE CLASS AK-SHLD	942
							NOT		BIT CONC SURFACE CLASS 1-40/20	Z91
					-		NOT		BIT CONC SURFACE CLASS 1-40 HT	991
							NOT		BIT CONC SURFACE CLASS 1-20 HT	29 I
LBS. PER SQ. YD.	© ESTIMATED AT 95	-888.2	}	- <del>999</del> -			NOT		BIT CONC SURFACE CLASS 1-20/30 5,1% A/L	7S I
TH.	S ESTIMATED AT 10	1418					NOT		BIT CONC SURFACE CLASS 1-20	123
:ні	LEK INCH OF DEP	-5851			<del>61-</del>	-1334-	NOT		### GONG SURFACE OLASS 1-0 8: # Conc. Sond. C. LT-0	6+1
5 LBS, PER SQ, YD.	TA GETTAMITED (	1		6		<u> </u>			8.7 Conc. Suct C/.I.O 5.1% A/L	
A39 .281 ON TA	NO ALL BITUMINOUS CON SAHLL BE ESTIMATED SQ. YD. PER INCH OF NOTED OTHERWISE.	TOTAL PROJECT	ENTRANCES	GLENDALE ROAD (KY 1136)	BUSH LANE	31W BYPASS	TINU		ILEM	:ODE
	908   ZIS				YAAI	NWNS	ING 3		IIUMINOUS CONCRETE SURFACE CLASS I-O	9.11
1,318	SI2								FFIC BOUND ACCRECATE-2"  ENT CONCRETE ENTRANCE PAVEMENT-8"	CEM
SI3	1: I	972.6 411.61							ILIMINONS CONCRETE BASE CLASS I (S-COURSES)  S. BITUMINOUS CONCRETE BASE CLASS I	2. B
9,576		815.6		S6	123	b tr 8			# BIINWINGOR CONCRETE SURFACE CLASS 1-20/30 MINOUS SEAL AGGREGATE	7/1-1
270,1 812,6 912,6 913,6 10,013	1	013 0		1,304	876,1 551	448		186 '92	"SILEED VSEHVIT BS-S WINDORS CURING SEAL	EWN
\$92.40£ \$10.41 \$1.00£ \$1.00		013 0						26,981 26,981		LIME
\$25.00 \$1.00		013 0		1,304	876,1			100 30		17 *8
£92,05 £95,05 £95,05 £0,1 £0,1 £0,1 £0,1 £0,1 £0,1 £0,1 £0,1	929 85		809	1,304 1,304	876,1	CIC'I			ENSE CRADED ACCRECATE BASE	8. DE
\$200 \$200 \$200 \$200 \$200 \$200 \$200 \$200	i28 929			429 1,304	P64 879,1	SIS,T	1,328		ENSE GRADED ACCRECATE BASE ENSE GRADED ACCRECATE BASE ENSE GRADED ACCRECATE BASE	10 .L 10 .S
\$12   \$11'61   \$15'61   \$15'61   \$15'61   \$15'6   \$15'	215 80		126	1,304 1,304	876,1	A, SS7	1,328	12,216	MINDUS MATTERIAL GRAFE ENSE GRADED AGGREGATE BASE	1118 10 °P 10 °T
\$12   \$11/61   \$2.5°6   \$15.5°6   \$1		PPI (0)	965 917 921	064 066 075 086 087 087 087	1, 978 1, 483 494	785,4 T85,4	13,166	12,216	ARCE GRANDED ROCHEGATE BASE RAZE GRANDED ROCHEGATE BASE RAZE GRANDED ROCHEGATE BASE WINDOLTS WALEBLAL BASE WINDOLTS WALEBLAL BASE LIMINOUS CONCHETE BASE AMBILDANIOUS CONCHETE BASE AMBILDANIOUS CONCHETE BASE CLASS I	1. DI 1. DI 1. DI 1. DI 1. DI 1. DI 1. DI
Ci2   Dil'Gi   Dil'	215 80	PPI (0)	126	926 926 9304 905,1	\$85.41 \$978 \$76.41	725.p	391,51 39,166 13,166 13,166		** SANCE ONCRETE BASE  ** BITUMINOUS CONCRETE	1. DI 3. DI 3. BI 2. BI 4-2\
S	215 80	29, 325	965 917 921	490 490 490 490 490 490 490 490 490	\$49 \$78 \$1 \$2 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3	785,4 T85,4	391,51 39,166 13,166 13,166	S 12,216	ARCE GRANDED ROCHEGATE BASE RAZE GRANDED ROCHEGATE BASE RAZE GRANDED ROCHEGATE BASE WINDOLTS WALEBLAL BASE WINDOLTS WALEBLAL BASE LIMINOUS CONCHETE BASE AMBILDANIOUS CONCHETE BASE AMBILDANIOUS CONCHETE BASE CLASS I	1. DI 3. DI 1. DI 1. DI 2. BI 2. BI 4-2\
S	A Y	29, 325	#IT = 594	R 936 490 490 490 490 490 490 41,304 1,304	A 483 418 494 494 494 494 494 494 494 494 494 49	U 2SS,P 78S,P T8S,P	0 13, 166 13, 166 13, 166 13, 186	S Siz, 216	** SANCE ONCRETE BASE  ** BITUMINOUS CONCRETE	1. DI 3. DI 4. DI 2. BI 4-2\
Siz	108 SIS 804 SIS	PPI (0)	P17 694 617 617	926 480 480 480 480 480 480 480 480 480 480	284,1 684 684 684,1 684,1 684,1 684,1 684,1	222,4 725,4 725,4	13, 166 13, 166 13, 166 13, 166 13, 166	S 12,216	** SANCE ONCRETE BASE  ** BITUMINOUS CONCRETE	1. DI 3. DI 4. DI 2. BI 4-2\

BRIDGE AND CULVERT SUMMARY  COUNTRING OF SINGES EXTINES AND PROJECT SUMMARY  COUNTRING OF SINGES EXTINES AND PROJECT SO, NY 32-1 110  STELLAR INFORMATION SINGES STATES AND PROJECT SO, NY 32-1 110  STELLAR INFORMATION SINGES STATES AND PROJECT SO, NY 32-1 110  STELLAR INFORMATION SINGES STATES AND	ОР 1764 NO. SHEETS HARDIN 27 1/1/8 DOO-002.								BRIDGE AND CULVERT OUANTITIES ARE NOT INCLUED IN THE GENERAL SUMMARY,		900	>
AN OF BRIDGES ESTIMATE AND OF BRIDGES ESTIMATE AND OF BRIDGES ESTIMATE AND OF BRIDGE ESTIMATE AND OF STATEMENT OF HIGHWAYS ELIZABETHTONN BYPASS TATION ON PROJECT STATION ON SPAN LENGTH ON STATION ON STRUCTURE SERVANGINO DAMP 172". L.F. PREPARAIN ON STRUCTURE STRUCTURE STRUCTURE STATION ON STRUCTURE STRUCTURE STRUCTURE STRUCTURE STATION ON STRUCTURE STRUCT			COMPLETED DATE	REVISION DATE				TOTALS FOR PROJECT   1884 1	1066.			
	BRIDGE AND CULVERT SUMMARY	DIVISION OF BRIDGES ESTIMATE AND PROJECT SUMMARY KENTUCKY DEPARTMENT OF HIGHMAYS	Y HARDIN ELIZABETHTOWN BYPASS	231 93/23SH, 231 94/32SH	STANDARD DRAWINGS BGX-006-05/1SH	DRAWING NUMBER 231 93 231 94 STATION ON PROJECT ROUTE 53+92, 30 91 +99, 24 STATION ON CROSSING ROUTE 8532+39, 70	ESCRIPTION OF STRUC BRIDGE TOTAL LENGTH NO. OF SPANS SKEW FARRICATION SPAN LENGTH	DESCRIPTION DESCRIPTION FE-CLASS A FE-CLASS AA FE-ELASS AA FE ENFORCEMENT FER EXCANATION-COMMON LES FER EXCANATION-COMMON FER EXCANA	S A N D S P E C I A L P R O V I S I ( LBS. APPROX WT OF STRUCTURAL STEEL 92(91) PERMANENT STEEL BRIDGE DECK			

SHEETS 103

SHEET NO. 29

YEAR 31WB

HARDIN

# NOTES GENERAL

THE RIGHT IS RESERVED BY THE DEPARTMENT TO MANE OTHER WORK, PERFECTIONS ON THE CONTRACTORS, AND BY 11S OWN FORCES AND 10 PERMIT PUBLIC UTILITY COMPANIES AND MARKES TO DO WORK DORING THE CONTRACTOR, AND "AND THIN THE LIMIT'S OF OR ADJACEN TO "IN THIN THE LIMIT'S OF OR ADJACEN TO "IN THIN THE LIMIT'S OF OR ADDICTIONS. CONTRACTOR SMALL AGREE, AND HEREBY DOES ADDICTION TO THE OTHER WORK WILL BE REDUCED TO A MINIMUM, THE CONTRACTOR SMALL AGREE, AND HEREBY DOES ADDICTION OF SHOWN OF SHOWN OF THE WORK THE STATE OF THE CONTRACTOR AND OTHER WORK ON THIN THE LIMIT'S OF BOALDOKEN TO THE CONTRACTOR AND OTHER WORK OF THIN WILL BE DOES AT THE REDUCER TO MANE OF THE CONTRACTOR AND OTHER WORK IN THIN THE LIMIT'S OF BOALDOKEN TO THE PROJECT. THE ENDIRER WILL BE CONE TO SET ON THE PROJECT THE MANORY AND HERE A STITES AND THE WORKEN THE SHARDOR AND OTHER CONTRACTOR WAS ADDICTED AS TO THE REFECTIVE RIGHTS OF THE VARIOUS PARTIES INFORMED AND THE STATES AND THE STATES AND THE BEFINE WILL BE OTHER WORK IN SERIES IN MANORY AND THE CONTRACTORY MANNER AND HIS DECISION SMALL BE FINAL AND BINDING UPON THE CONTRACTORY.

SPECIAL-NOTE-FOR-FABRIC-WRAPPED BACKFILL DRAIN MATERIALS (5-17-91)

SPECIAL NOTES FOR HARDIN COUNTY FD 04 047 31WB 000-002

SPECIAL NOTE FOR FALL PROTECTION (8-23-88)

RESISTANT AGGREGATE REQUIREMENTS (2-6-92)

INDENTED RUMBLE STRIPS (12-7-88)

SPECIAL NOTE FOR BITUMINOUS SPECIAL NOTE FOR POLISH

### DETAIL SHEETS

SPECIAL NOTE FOR CONTROL AND ACCEPTANCE OF BITUMINOUS MIXTURES (7-28-93) SPECIAL NOTE FOR DENSE GRADED AGGREGATE AND CRUSHED STONE BASE (12-1-92)

NOTE FOR EROSION AND WATER POLLUTION CONTROL (2-10-93)

SPECIAL 1

SPECIAL NOTE FOR APPLICATION OF FEDERAL \*
RAILROAD ADMINISTRATION SAFETY RULES (1-21-93)

SPECIAL NOTE FOR PAVEMENT MARKINGS (10-5-93)

NOTE FOR TACK WELDING (2-17-93)

ACGREGATES FOR BITUMINOUS MIXTURES (5-6-91)

SPECIAL NOTE FOR FINE

SPECIAL NOTE FOR ANTI-STRIPPING ADDITIVE, (2-6-92)

SPECIAL NOTE FOR ASPHALT CEMENT QUANTITY WHEN LABORATORY MIX DESIGN IS REQUIRED (2-26-92)

ANY STANDARD ORANINGS REFERRED TO IN THE PLANS, OR PROPOSAL, THAI ARE NOT ATLACHED AN MALE'S LIE SHEETS, HAVE BEEN INCLUDED ELSEWHERE IN THE PLANS AS FALL'S-FLE GETALL SHEETS.

### BEFORE YOU DIG

THE CONTRACTOR IS ADVISED HAIT HE CAN CALL 1-800-152-6007 TOLL FREE A MINIMAM OF TWO MONTWO DAYS PRIOR TO EXCANATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTLITIES WHICH SUBSCRIBE TO THE BERGENEL-U-DIG 1800D SERVICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE EXCANATION WITH ALL UTLITT OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. ALL UTLITIES AND A CONTACT PERSON FOR EACH COMPANY ARE SHOWN ON SHEET NO. 3 OF THE PLANS.

# UTILITIES (HAZARDOUS OR FLAMMABLE MATERIALS)

PROJECTS (11-3-93)

SPECIAL NOTE FOR ROAD IMPROVEMENT SIGNS FOR NON-FEDERAL SPECIAL NOTE FOR USE OF FLOWABLE FILL AS PIPE BACKFILLL

SPECIAL NOTE FOR RETROREFLECTIVE MATERIALS (10-27-93)

(4-26-93)

THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS IN AREAS WHERE PLANS INDICATE THE PRESENCE OF A GAS LINE OR OTHER LINES CARRYING HAZMOOUS ASSIGNAL.

CSX TRANSPORTATION, INC. HAS SIGNALS AND COMMUNICATIONS FACILITIES TO RELOCATE FOR THIS CONSTRUCTION. THEY HAVE BEEN AUTHORIZED TO PROCEED AND SHOULD BE CLEARED PRIOR TO THE APRIL 22, 1994 LETTING.

MARSHALL DESIGN METHOD CRITERIA CLASS I MIXTURES PRICE ADJUSTMENT FOR PETROLEUM PRODUCTS PRICE ADJUSTMENT FOR PORTLAND CEMENT CONVERTE PLANT QUALITY CONTROLS.

LIME ROADBED STABILITATION
CONSTRUCTION ACTIVITIES AFFECTING STREAMS
COMPACTION TEST STRIPS, CLASS I MIXTURES
CRASH CUSHIONS

43F (91) 46K (91) 53A (91) 54D (91) 88 (91) 94 (91) 13G (91)

NOTES. SEE PROPOSAL FOR MAINTENANCE OF TRAFFIC

# FRAFFIC CONTROL ITEMS

ACCESS SHALL BE

THIS PROJECT IS A PARTIALLY CONTROLLED ACCESS HIGHWAY. PROVIDED ONLY WHERE SPECIFICALLY INDICATED ON PLANS.

UNLESS OTHERWISE DIRECTED, ALL SALVAGABLE TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED FOR MAINTAINING AND CONTROLLING TRAFFIC DURING CONSTRUCTION.

## DETOUR CONSTRUCTION

CONTRARY TO SUBSECTION 104.04.01 OF THE STANDARD SPECIFICATIONS, THE LUMP SUM BID FOR "DETOUR CONSTRUCTION" SHALL INCLUDE ALL GRADING AND RECESSARY DRAINAGE FOR THE TEMPORARY GOADMAY AND REMOVAL THEREOF WHEN IT IS NO LONGER WEEDED.

# DEPARTMENT OF THE ARMY PERMIT AND WATER OUALITY CERTIFICATION APPROVALS

# NOTICE - CAULION - CLASSIFICATION

WITHOUT RECARD TO THE MATERIALS ENCONVERED, ALL ROADWAY AND DRAINAGE EXCAVATION SHALL BE UNCLASSIFIED. IT SHALL BE DISTINCTLY UNDERSTOOD THAT ANY METERENE TO ROCK, EARLY, OR ANY OTHER MATERIAL ON THE PLANS OF ROSES-SECTIONS METHER IN NUMBERS, MORDS, LETTERS OR LINES, IS SOLELY FOR THE DEPARTMENT'S INFORMATION AND IS NOT TO BE TAKEN AS AN INDICATION OF CLASSIFIED EXCAVATION BE DIDDER MAST DRAW HIS OWN CONCLUSION AS TO THE CONDITIONS TO BE ENCONVIRED. THE DEPARTMENT OF CONSIDERED FOR ANY OTHER MATERIAL INVOLVED. THE DEPARTMENT OFS NOT OTHE ANY OTHER ACCOUNTERED. THE DEPARTMENT OFS NOT OTHER ANY OTHER ACCOUNTERED. THE ADMANDED TO CALM WITH BE CONSIDERED FOR ADDITIONAL COMPENSATION IF THE MATERIALS ENCOUNTERED.

# ROADBED NOTE, EMBANKMENT-IN-PLACE

FERTILIZER SHALL BE APPLIED AT THE RATE OF 23 POUNDS PER 1000 SQUARE FEET.

THE LINE CONTENT HAS BEEN ESTABLISHED AT 6 PERCENT BY WEIGHT, AND THE PLAN HOWEVER, THE OWNLY POY TO TO LESS. OUR FT. HOWEVER, THE OWANTITY SHALL BE ADJUSTED AFTER THE ROADBED HAS BEEN CONSTRUCTED AND SMELLS SHALLTITED AND TESTED BY THE DIVISION OF MATERIALS. APPROXIMATELY TWO WEEKS TIME IS MEEDED FOR THIS PURPOSE.

THE BITUMINOUS MATERIAL FOR BITUMINOUS CONCRETE SHALL BE

THIS PROJECT AT ONE OR WORE LOCATIONS IS REGULATED BY A DEPARTMENT OF THE ARMY GOAD FERMIT WHICH CAN REGULINE THE APPROVAL OF A STATE WAITE OUALITY CERTIFICATION FROM THE KENTUCKY DIVISION OF MATER. THE COMPACTOR SHALL PERFORM ALL APPLICABLE WORN IN COMPACTOR STATED IN THE DA REGULA OF THE CONTRICTOR STATED IN THE DA REGULA OF THE DATE OF THE OFFICIAL ON THE CONTRACTOR SHALL NOT SHALL FORTH CALLING IN OUR CERTIFICATION. THE CONTRACTOR SHALL LOUT WORK IN OR DISTURBE THE CALLING IN OR CERTIFICATION ADDITION OF THE DATE OF THE CONTRACTOR SHALL LOUT WORK IN OR DISTURBE THE CALLING THE OFFICIAL OUT WORK IN OR DISTURBED. REFER TO MOTICE SI CONTAINED MESSION OF THE CONTRACT BIO PROPOSAL FOR DESIGNATED MESSION OF THE ASSENCE OF APPROVAL.

IN ADDITION TO THE REQUIREMENTS FOR EMBANKWENTS (SECTION 207 OF THE STANDARD SPECHFICKATIONS), MATERAL FOR THE TOP 12 INCHES OF ROADBED SHALL HAVE ANNOWN POR POLICIF FOOT AS DETERMINED BY KAR 64-511, AND SHALL BE COMPACTED TO AN IN-PLACE DENSITY CONFORMINE TO THE COMPACTING REQUIREMENTS OF SECTION 207.05 OF THE STANDARD SPECIFICATIONS.

### ER0S I ON

SEED MIXTURE NO. 1 SHALL BE USED.

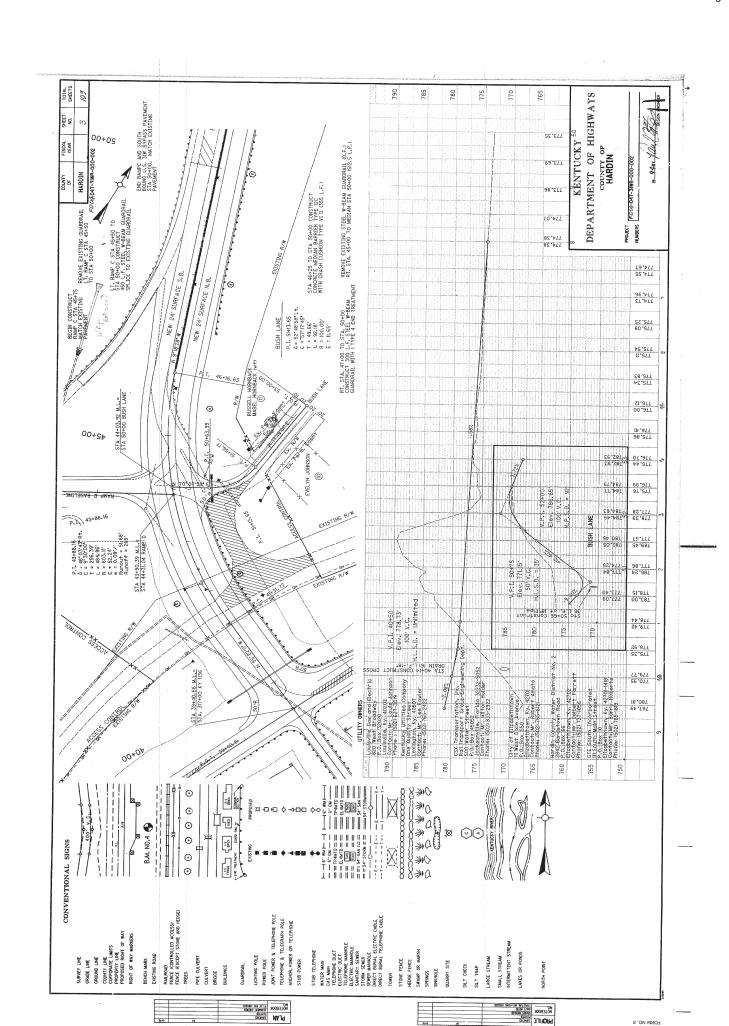
AGRICULTURAL LIMESTONE SHALL BE APPLIED AT THE RATE OF 150 POUNDS PER 1000 SOUARE FEET.

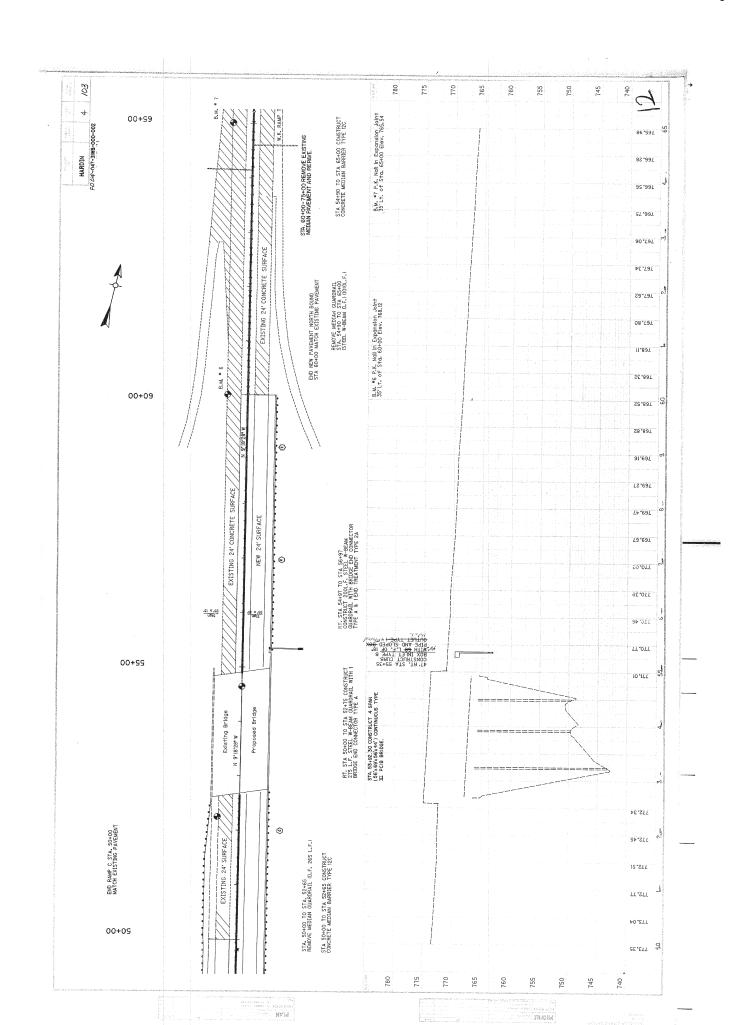
# LIME STABILIZED ROADBED

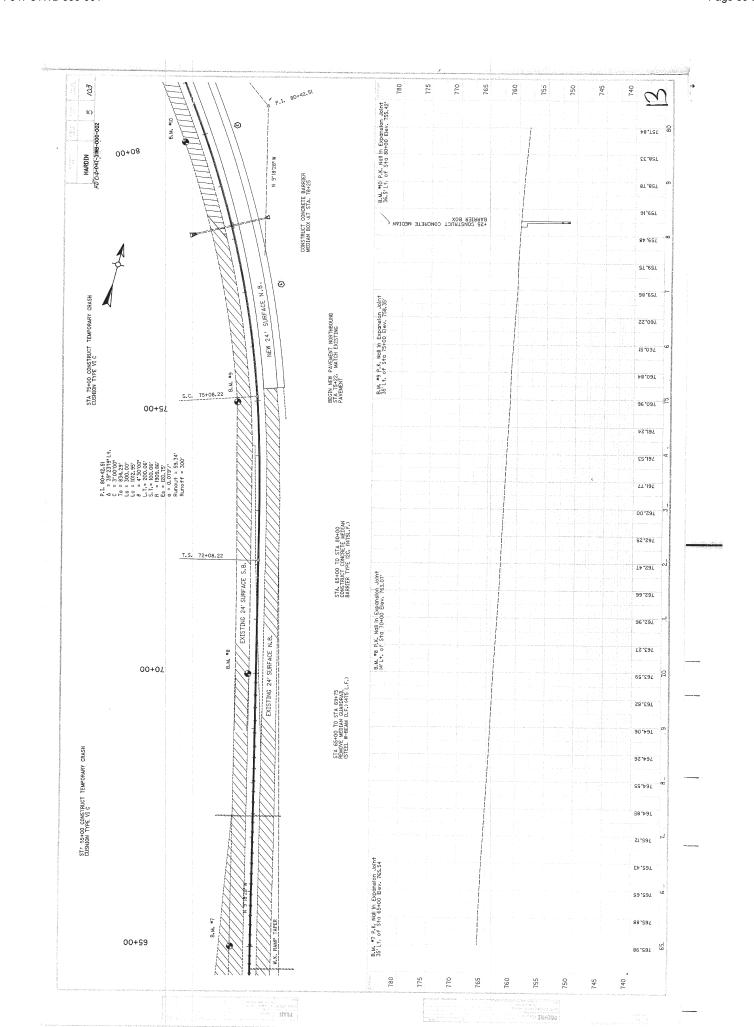
THE TOP 8 INCHES OF THE FINISHED ROADBED SHALL BE STABILIZED WITH LIME IN ACCORDANCE WITH SPECIATION NO. 84 FOR ILLE ROADBED STABILIZATION. SECRETOR SOILS, HAVING A MINIMUM OBY VALUE OF 3, SHALL BE USED FOR THIS PURPOSE.

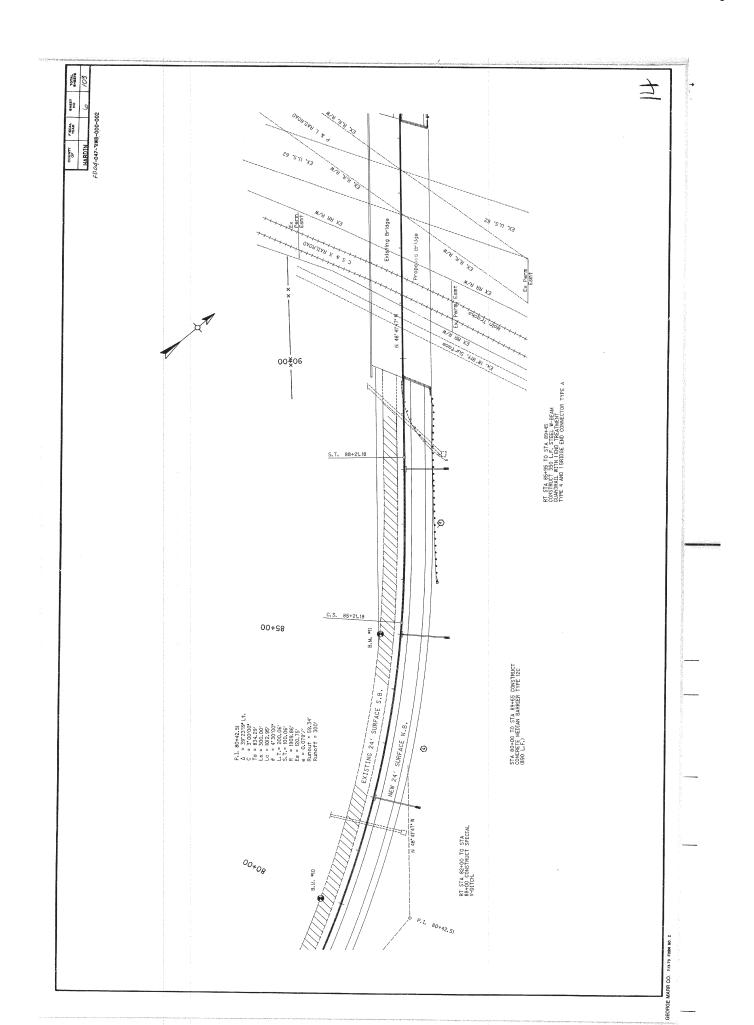
O

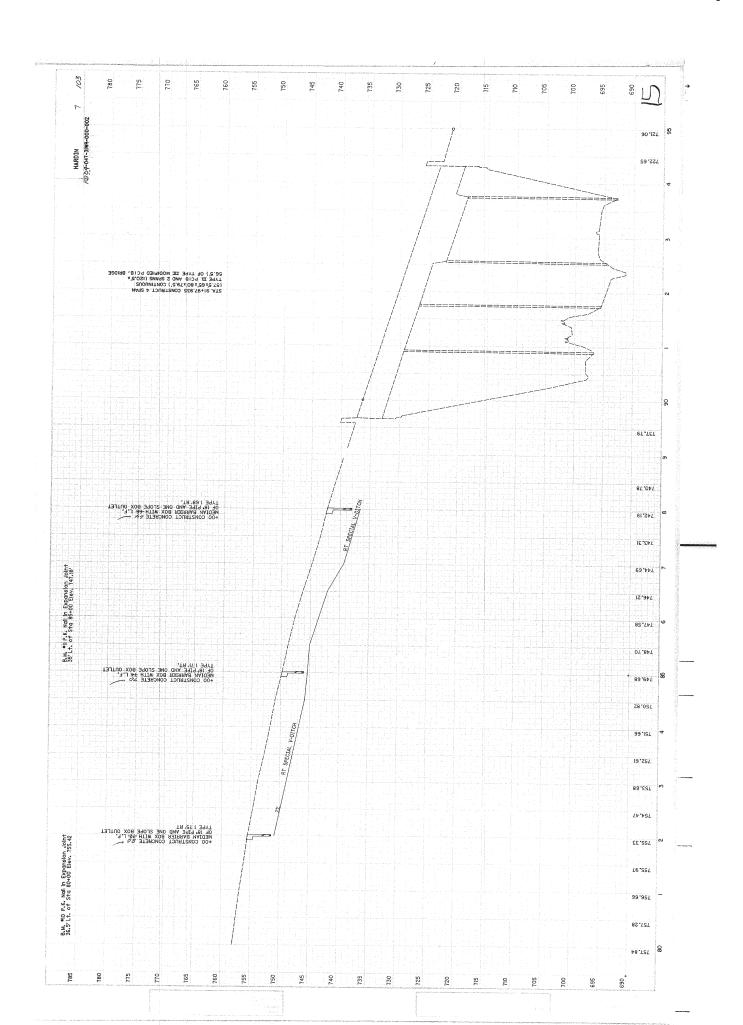
### TOTAL 45 31WB HARDIN THE EXISTING GUARDRAIL SYSTEM, INCLUDING POSTS, TERMINAL SECTIONS AND END THEATMENTS, SARLL BE REMOVED IN A MANUER ACCESTABLE TO THE ENGINEER WHICH WILL AVOID GAMAGE DURING REMOVAL, WHEN REMOVING GLAPARLL, NO PEER ENGS OF GAPS SHALL BE LEFT EXPOSED TO ONCOUNING TRAFFIC #!THOUT-ADEQUATE PROTECTION OR GUARDRAIL" (CODE NO. 238) UPON REMOYAC, ALL GUARDRALL COMPONENTS SHALL BE HAULED BY THE CONTRACTOR TO THE MEAREST MAINTENANCE BRAIN, UNLESS OTHERWISE DIRECTED. THE "W" BEAM RAIL SHALL BE STACKED 45 FOR BUNDLE GI WIDE, 10 HIGH, OVERLAPPED). THE METAL POSTS SHALL BE STACKED 50 PER BUNDLE IS WIDE, 10 HIGH, OVERLAPPED). PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE FOR "HAULING GUARDRAIL" (CODE NO. 2358). GENERAL NOTES THE BITUMINOUS MATERIAL FOR BITUMINGUS CONCRETE USED FOR TEMPORARY DETOURS WITHIN THE LIMITS OF THE PROJECT MAY BE EITHER AC-10 OR AC-20. EITHER CENTRAL-MIXING OR TRUCK-MIXING W .. BE PERMITTED (AT THE CONTRACTOR'S OPTION) IN CEMENT CONCRETE PAVEMENT CONSTRUCTION. HAND FINISHING WILL BE TRANSVERSE CONTRACTION AND EXPANSION JOINTS AT RIGHT ANGLES WILL BE PERWITTED IN THE PORTLAND CEMENT CONCRETE PAVEMENT. STANDARD DRAWINGS FOR HEADWALLS (ROH SERIES) ARE NOT ATTACHED TO THESE PLANS BUT ARE ANALLABLE IN THE SUPPLEMENT OT THE STANDARD DRAWING BOOK, WHICH WE GRAINED FROM THE MANAGEMENT SERVICES DIVISION OF THE DEPARTMENT OF HIGHWAYS IN FRANKFORT, KENTUCKY AT A COST OF 97,50 PRE COPY. BITOWINOUS MATERIAL FOR TACK IS ESTIMATED AT 0.4 LB. /SO. YD. FOR EACH COURSE. SEE SECTION 407 OF THE STANDARD SPECIFICATIONS FOR RATES OF APPLICATION. THE WIDENING OF THE EMBANKMENT TO ACCOMMODATE TYPE 4 END FREATMENTS CONSTRUCTED IN ACCORDANCE WITH APPLICABLE PLANS AND STANDARD BRANINGS SHALL BE COMPLETED WITH EMBANKMENT-IN-PLACE SHOWN ELSEWHERE IN PLANS AND/OR PROPOSAL. THE CONTRACTOR SHALL HAVE A COMPLETE REPLACEMENT UNIT AVAILABLE ON THE PROJECT SITE FOR THE UDIATION OF THE REPOLICE, UNLESS THE SUPPLIED OF THE SEPECTION IN ACCOUNTED THE SUPPLIED OF THE SEPECTION OF THE SEPECTION OF THE SUPPLIED OF THE SEPECTION OF THE SUPPLIED OF THE SUPPLIED OF THE PROJECT SITE WITHIN 24 HOURS AFTER THEY ARROPERED. CONTRARY TO THE STANDARD SPECIFICATIONS, THE REMOVAL OF PIPE, WHETHER SHOWN THE PLANS OR NOT, IS INCIDENTAL TO THE CONTRACT. CEMENT CONCRETE PAVEMENT AND/OR BASE NOTE TRANSVERSE JOINTS AT RIGHT ANGLES CRASH CUSHION REPLACEMENT ELEMENTS BITUMINOUS MATERIAL FOR DETOURS STANDARD DRAWINGS FOR HEADWALLS GUARDRAIL END TREATMENT TYPE 4 BITUMINOUS MATERIAL FOR TACK

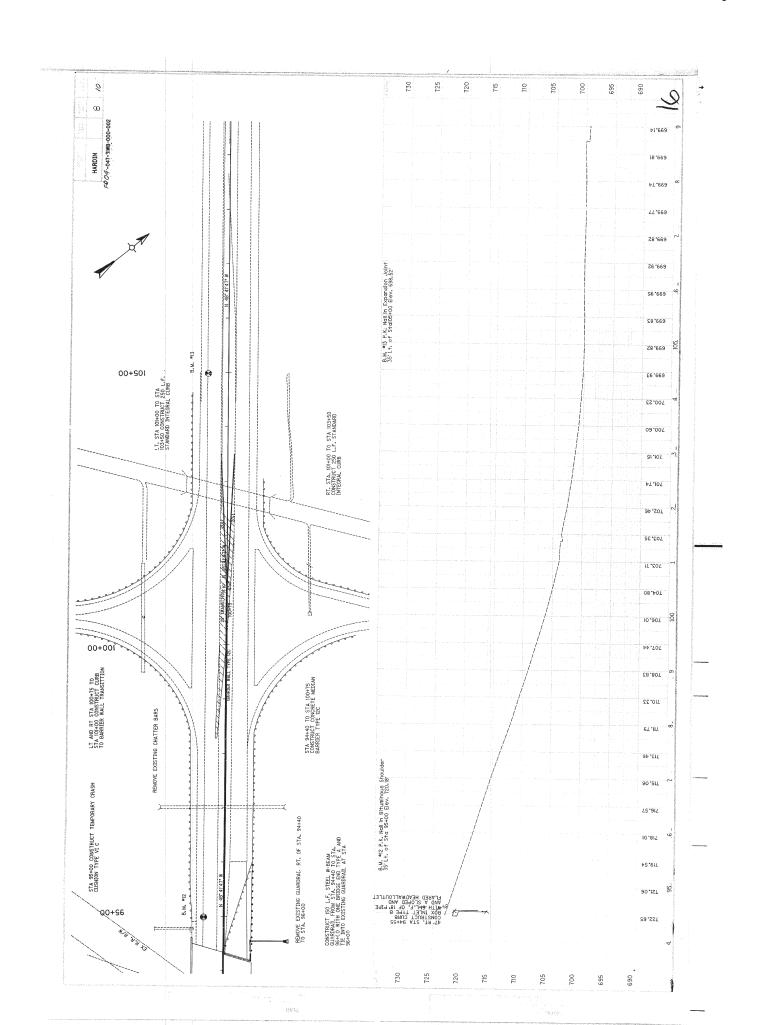




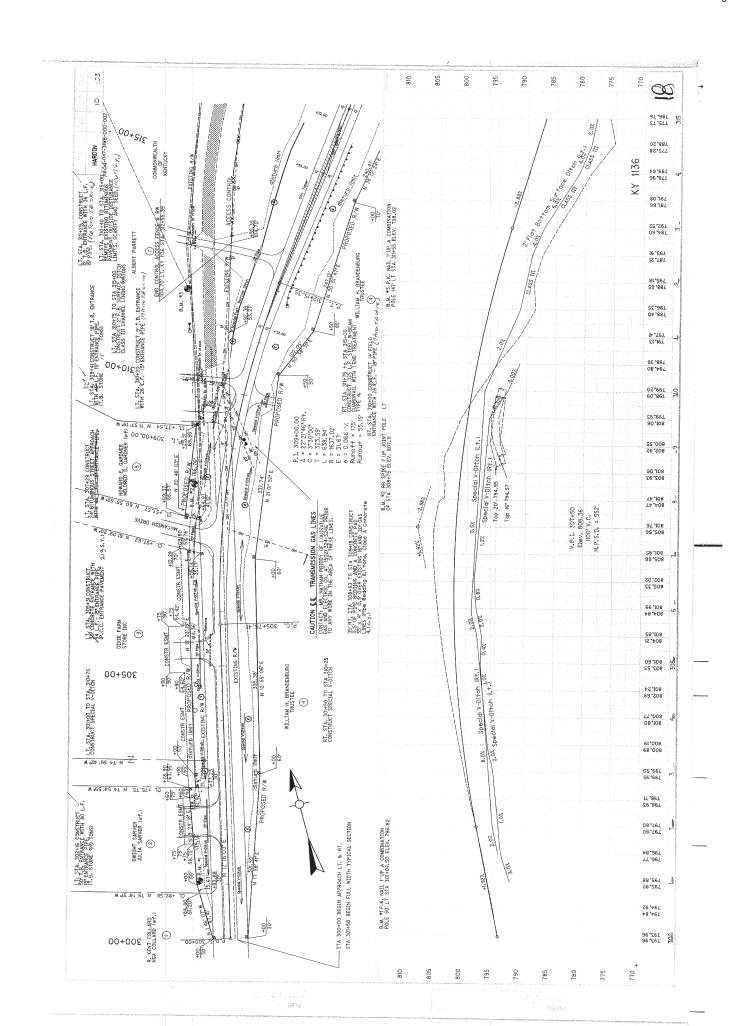


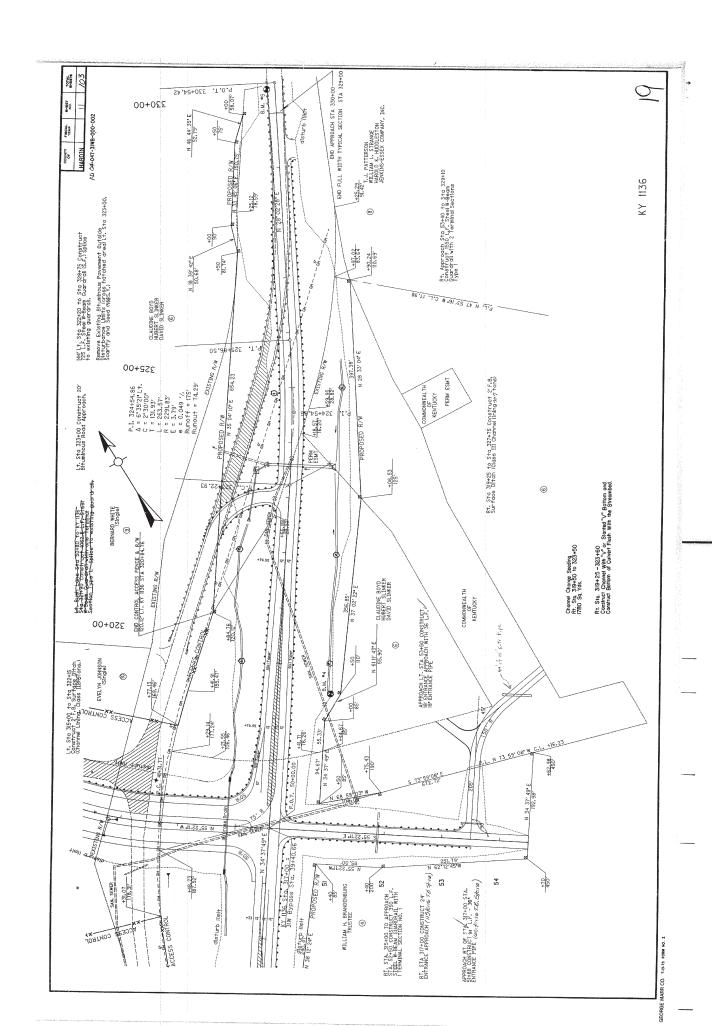


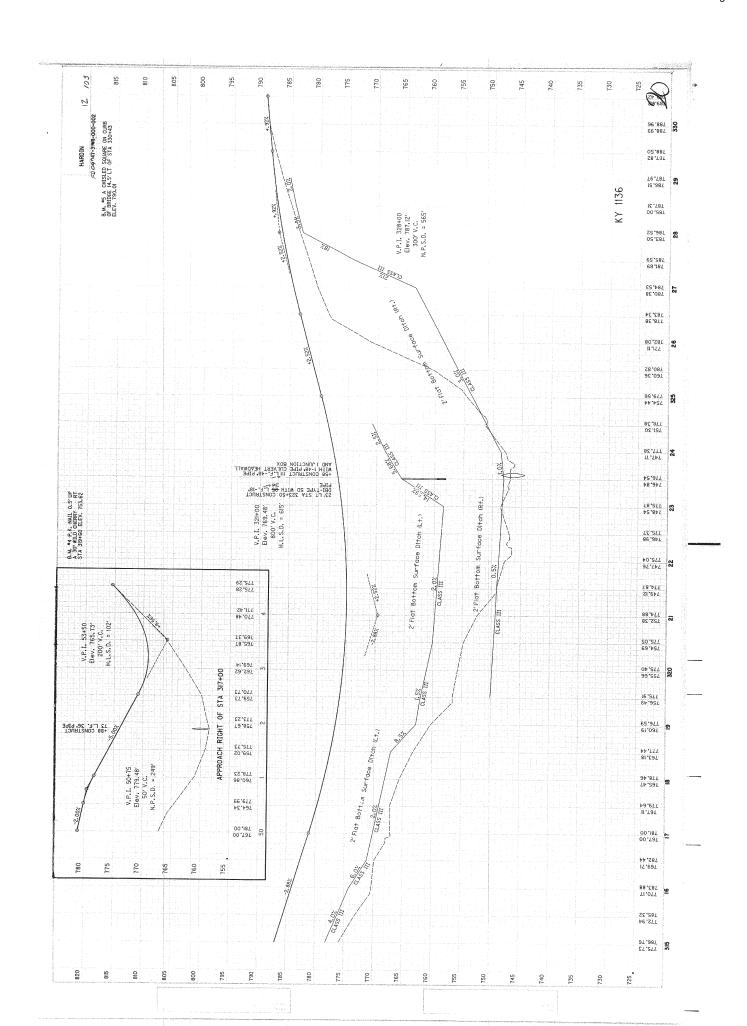




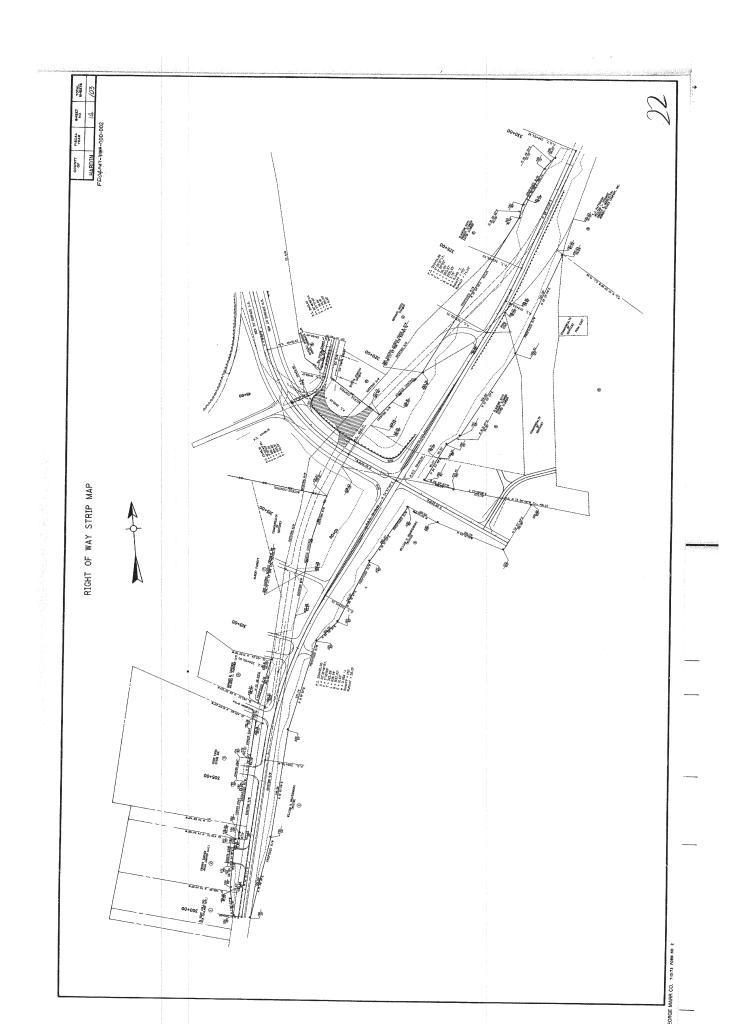


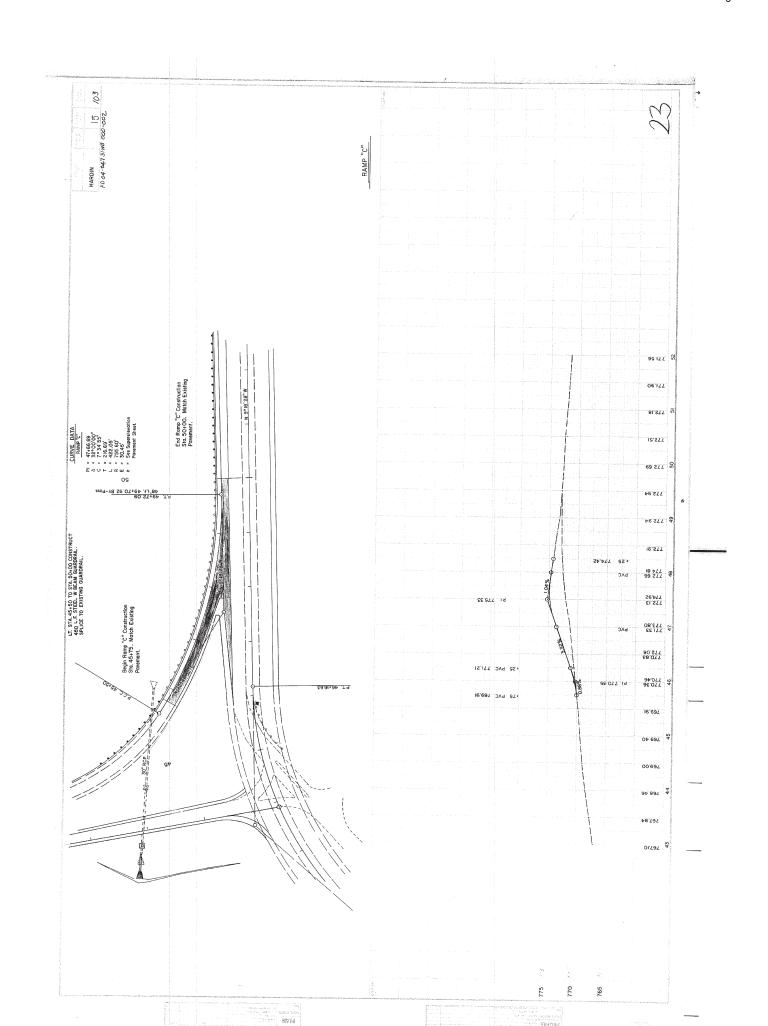


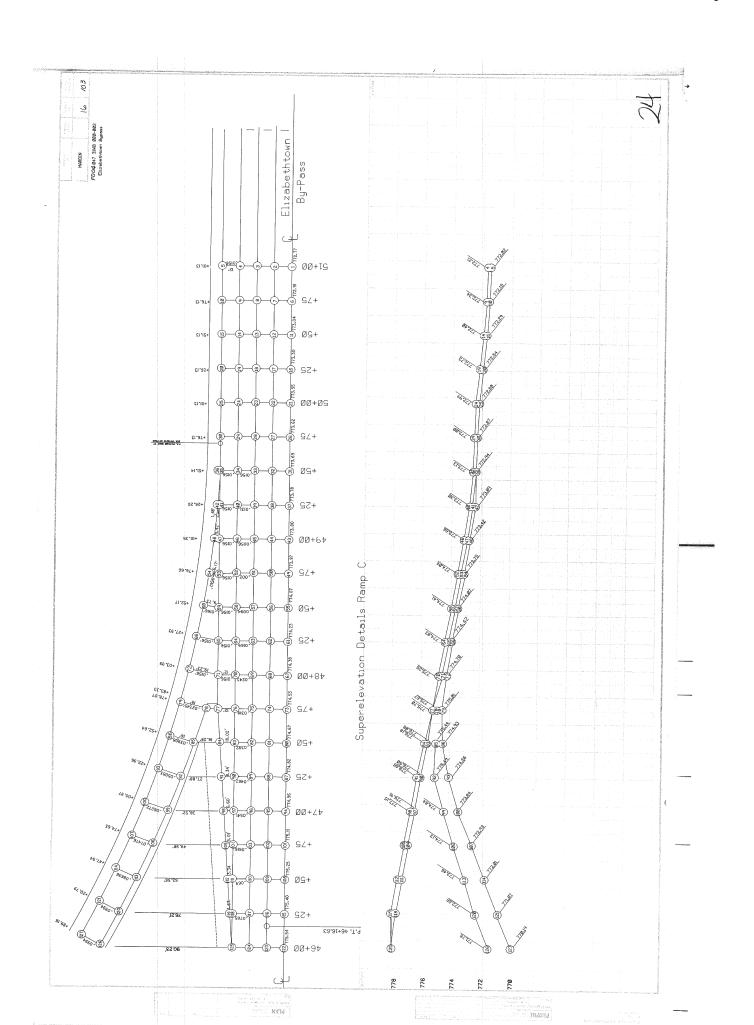


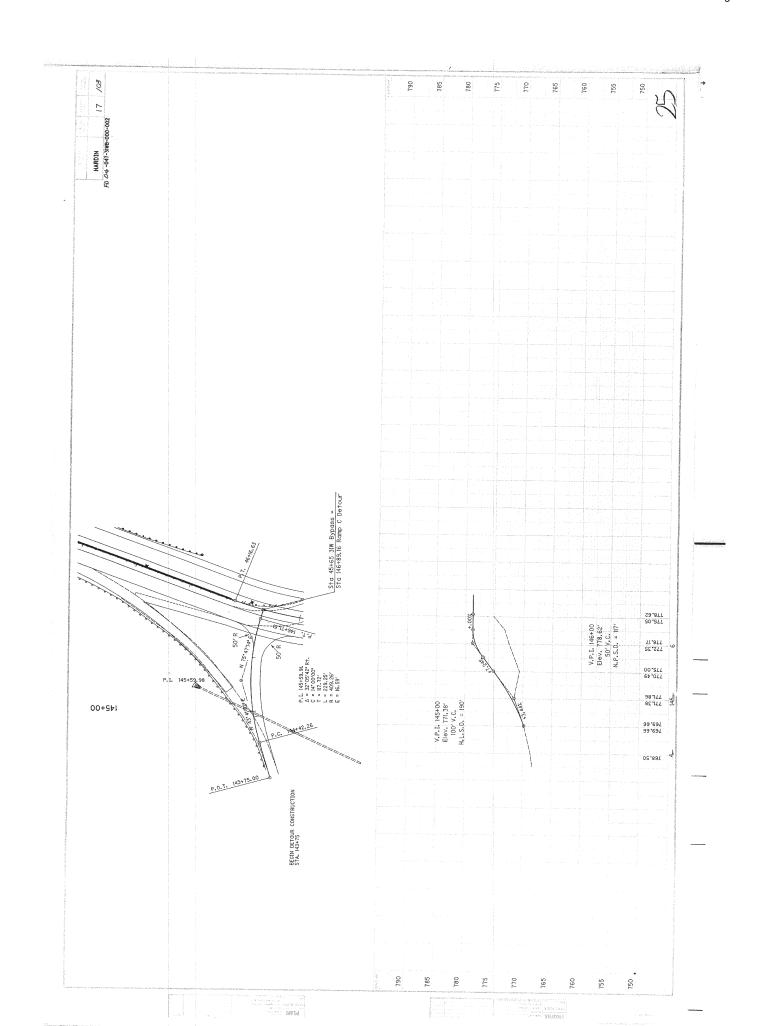


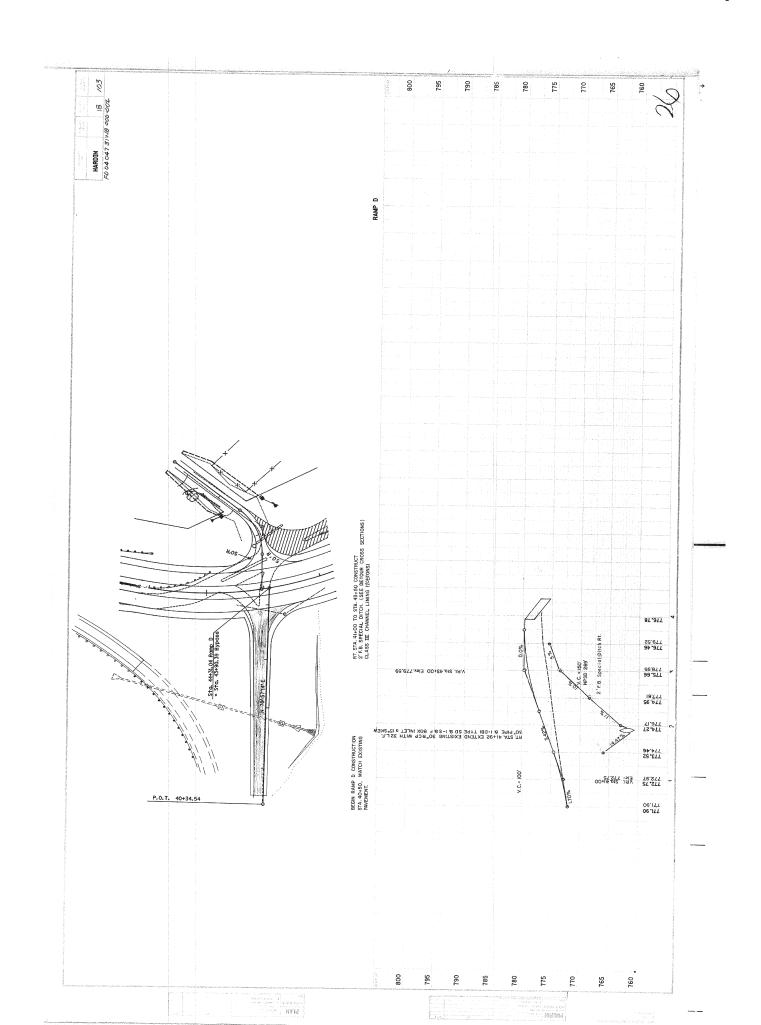
1975   1975								RIGHT	OF W	OF WAY SUMMARY	<b>JARY</b>						13 1034
State   Stat	NAME	T0T.	FAL AREA OF TRACT	PERMANENT	1	EASEMENTS	ONSTRUC-		REA SEVERED	tiota	EXCESS PL	RCHASED	PORTION REMAINING		BLITT DINGS ACCUITAGE	-0-0-047 31#R 000-002	
Control   Cont		ACR			1 1	SQ. FT. SQ. FT.		30.		HOLE	ACRES	SQ. FT.	-		NUMBER		
1.   1.   1.   1.   1.   1.   1.   1.	R. KENT COLLARD NGA COLLARD (wf.)	1.2:	79	0.020			-	259					1.259	>		764 Pg.	
10   10   10   10   10   10   10   10	DWIGHT SARVER JULIA SARVER (wf.)	2.7	731	0.129			_	502					2000				
Figure 1906, 190							-		-				2,602			264	
Mark Exponded   Color   Colo	DIXIE FARM STORE, IN		15	0,224				.26					7,726	>			
10   10   10   10   10   10   10   10	WILLIAM H. BRANDENBU TRUSTEE		54	5,250	228,709				118.29	06			118,290			1 1	
STANSE et al   25.0   2.642   15.946   1   7.949   14.246   1   7.949   14.246   1   7.949   14.246   1   7.949   14.246   1   7.949   14.246   1   7.949   1	HOWARD GARDNER MILDRED GARDNER ( w.f.		2	0,049	2,133		0.	801					0.801	++-		611 Pg. 316	
17 PAGESTY   14,53	÷		*+	2.662	115, 966		7.	953	14.3	+ 52			22,338			594	
10	ALBERT PARRETT	11,93		OT USED												88	
AND WRITE CO.5 NOT USED CO.42 NOT USED CO.44 NOT USED CO.42 NOT USED CO.44 NOT US	HAROLD HUDDLESTON	70		OT USED													
10   WHITE   0.5   NOT USED																321 Pg.	
H. VORNIGHOUT   1.25   NOT   USED   U	BERNARD WHITE	0.5		DT USED												403 Pg.	
11. HORRIGACK (ver.)  12. FOR FIGURE C. (ver.)  13. C   F   F   F   F    14. HORRIGACK (ver.)  15. S   NOT JOSED  15. HORRIGACK (ver.)  15. S   NOT Acres (3375 a.f.) is a Permanent Eament  15. FOR FIGURE  1	EVELYN JOHNSON	0.412		T USED												353 Pg.	None against annual
## ### ### ### ### ### ### ### ### ###	RUSSELL HORNBACK MABEL HORNBACK (wf.)	3,25	1.	IT USED												25 DA 25	
### A COMINGED + Extension East-bear From Tax Map																5	
### Activation = From Tax Map																	
W ACOMED + Figuresh Esselor • Ared From Tax Map + 0,077 Acres (3375 s.f.) Is a Permanent Easment TYPE SEME SYSTEM (c. France Martin Mart Pastry F. Frank Martin Mart Pastry F. Frank Martin Mar																	
w Acouston + Faburean Eastern • Arred From Tax Map + 0,077 Acres (3375 s.f.) is a Permanent Eastern TYPE SEREN SYSTEM BUILDINGS Adounce Doce 1. PRINTED TOTAL AREA OF TRACT.  S. PRINTET - INDIVIDUAL CONTROL OF																	
	R/W Acquired + Permane) A severed = Total area of tr	NT EASBAENT JACT.		n Tax Map	+ 0.077		i) is a Per	manen† Easmer	+			TYPE SEWER 1, PRIV. 2, PRIV. 3, PUBL. 4, NONE	SYSTEM TIE - INDIVIDUAL TIE - MALTI PARTY C	BUILDINGS / C - COM	COUNTED CODE MERICAL DESTINAL RAGE	HAZARDOUS WASTE UST - UNDERGROUND STORAGE TO	

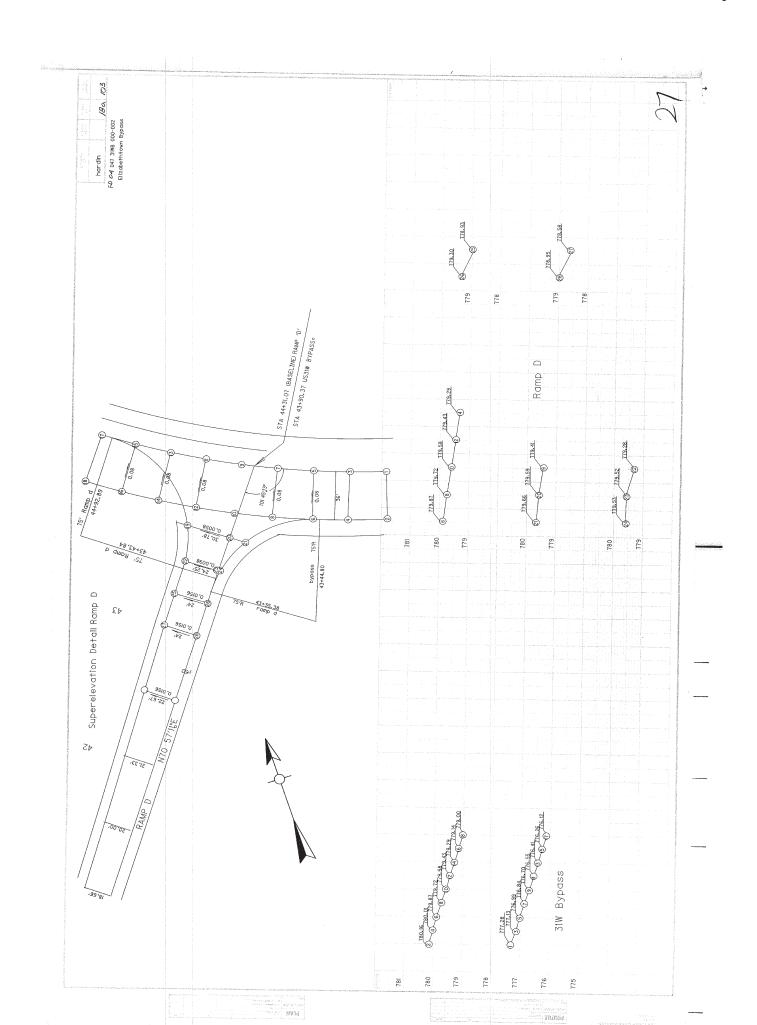


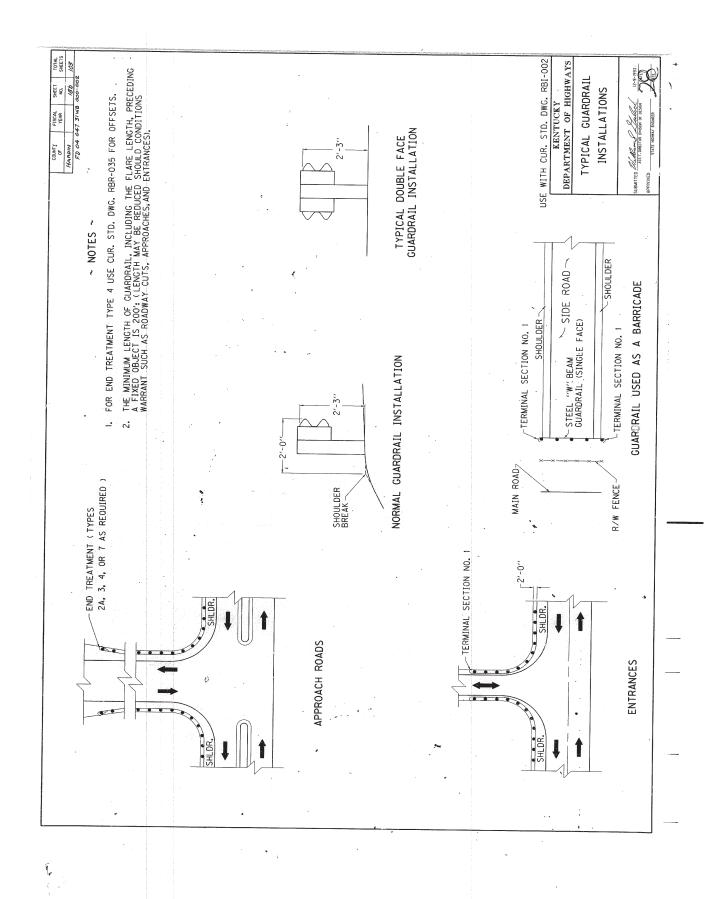




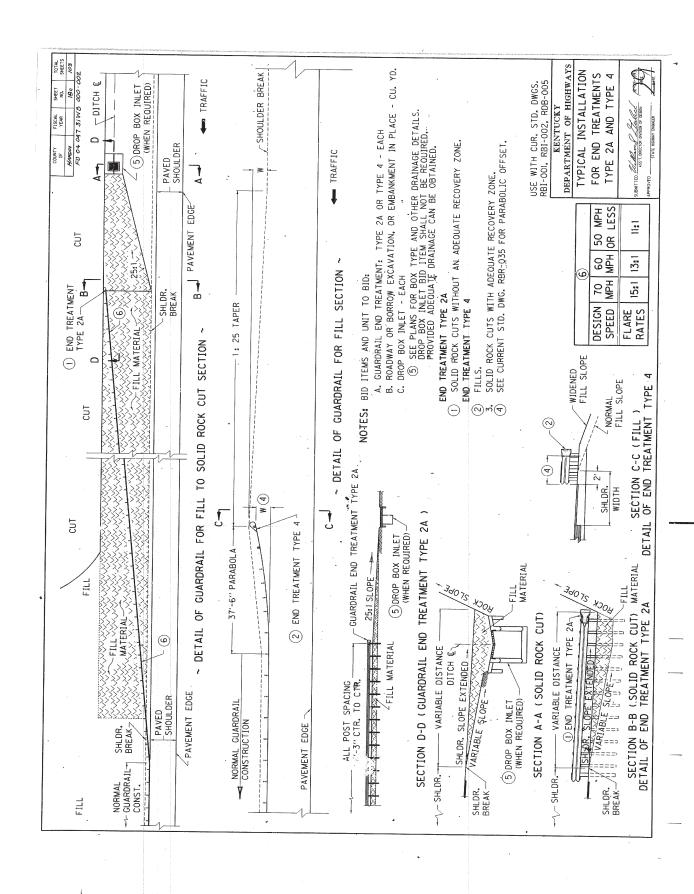




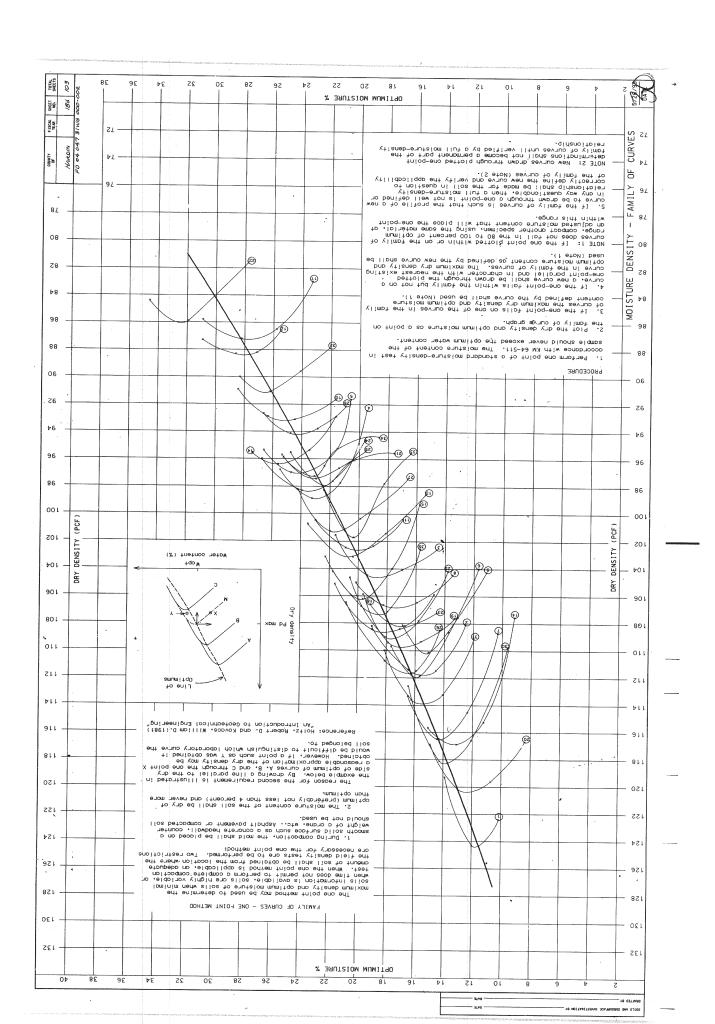


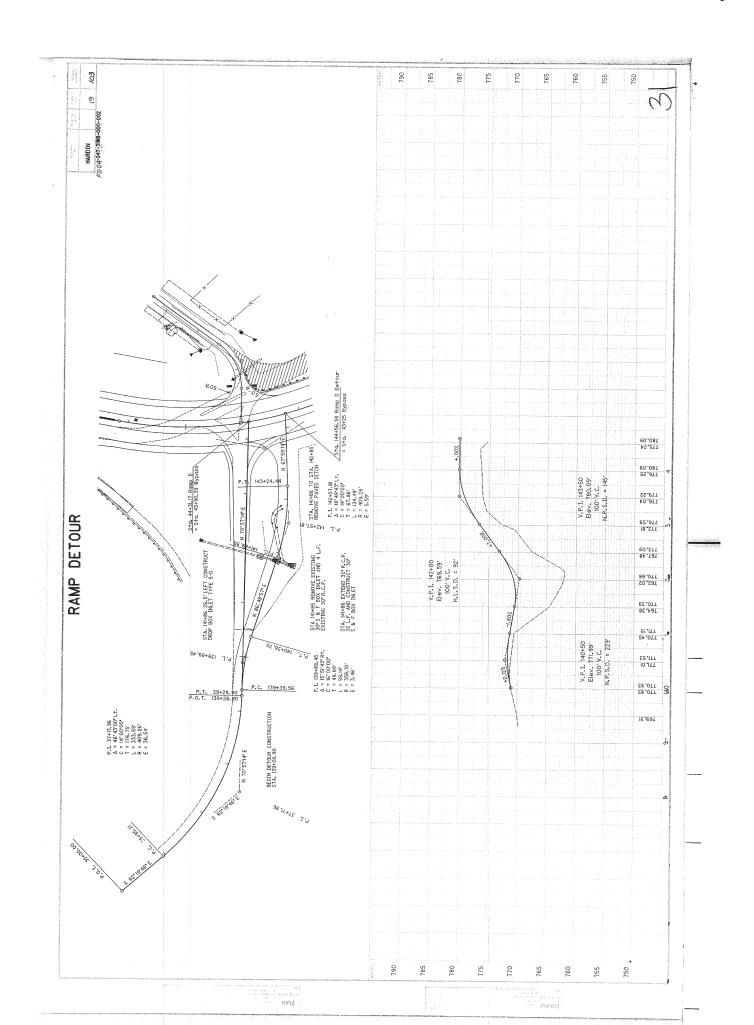


7107 NAM STOOT TOOT NAM 50 1993 TOOL 1993 TOOL



DRAWN modro1003workFile
CHECKED D. H. MCALISTER
PSTCOMMENDED
PSTCOMMEND
PSTCOMMENDED
PSTCOMMENDED
PSTCOMMENDED
PSTCOMMENDED
PSTCOMMENDED
PSTCOMMENDED
PSTCOMMENDED
PSTCOMMENDED
PSTCOMMENDED
PSTCOMMEND





# PART II

# SPECIFICATIONS AND STANDARD DRAWINGS

# **SPECIFICATIONS REFERENCE**

Any reference in the plans or proposal to previous editions of the Standard Specifications for Road and Bridge Construction and Standard Drawings are superseded by Standard Specifications for Road and Bridge Construction, Edition of 2019 and Standard Drawings, Edition of 2016.

# SUPPLEMENTAL SPECIFICATIONS

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

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

1I

#### SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

**1.0 DESCRIPTION.** Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

#### 2.0 MATERIALS.

**2.1 General.** Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

#### 2.2 Sign and Controls. All signs must:

- Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- Provide at least 40 preprogrammed messages available for use at any time.
   Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
  - a) Keyboard or keypad.
  - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
  - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
  - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.

1I

- 12) Allow an on-off flashing sequence at an adjustable rate.
- 13) Provide a sight to aim the message.
- 14) Provide a LED display color of approximately 590 nm amber.
- 15) Provide a controller that is password protected.
- 16) Provide a security device that prevents unauthorized individuals from accessing the controller.
- 17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

 $/KEEP/RIGHT/\Rightarrow\Rightarrow\Rightarrow/$ /MIN/SPEED/\*\*MPH/ /ICY/BRIDGE/AHEAD/ /ONE /KEEP/LEFT/< LANE/BRIDGE/AHEAD/ /LOOSE/GRAVEL/AHEAD/ /ROUGH/ROAD/AHEAD/ /RD WORK/NEXT/\*\*MILES/ /MERGING/TRAFFIC/AHEAD/ /TWO WAY/TRAFFIC/AHEAD/ /NEXT/\*\*\*/MILES/ /PAINT/CREW/AHEAD/ /HEAVY/TRAFFIC/AHEAD/ /REDUCE/SPEED/\*\*MPH/ /SPEED/LIMIT/\*\*MPH/ /BRIDGE/WORK/\*\*\*0 FT/ /BUMP/AHEAD/ /MAX/SPEED/\*\*MPH/ /TWO/WAY/TRAFFIC/ /SURVEY/PARTY/AHEAD/

\*Insert numerals as directed by the Engineer.

Add other messages during the project when required by the Engineer.

#### 2.3 Power.

- Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.
- **3.0 CONSTRUCTION.** Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

**4.0 MEASUREMENT.** The final quantity of Variable Message Sign will be

1I

the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

**5.0 PAYMENT.** The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

CodePay ItemPay Unit02671Portable Changeable Message SignEach

Effective June 15, 2012

#### SPECIAL NOTE FOR FULL DEPTH CONCRETE PAVEMENT REPAIR

This Special Note applies to full depth repairs of concrete pavement. Section references herein are to the Department's Standard Specifications for Road and Bridge Construction, current edition.

**1.0 DESCRIPTION.** Remove and replace concrete pavement. Comply with the applicable Standard Drawings and the Standard Specifications except as specifically superseded herein.

#### 2.0 MATERIALS AND EQUIPMENT.

- **2.1 JPC Pavement.** Test concrete materials according to section 601.03.03. Conform to 501, 502, and 601 except that the concrete must achieve 3000 psi in accordance with Section 4.4 of this note. The Engineer may allow pavement to be opened to traffic at less than 3,000 psi subject to the deductions described in Section 4.4 of this note.
  - 2.2 Dowel Bars and Sleeves. Conform to 811.
- **2.3 Tie Bars.** Conform to Section 811. Use epoxy coated tie bars in longitudinal and transverse joints.
  - **2.4 Joint Sealants.** Conform to Subsection 807.03.01 or 807.03.05.
  - 2.5 Grout Adhesives and Epoxy Resin Systems. Conform to Section 826.
- 2.6 Dense Graded Aggregate (DGA) and Crushed Stone Base (CSB). Conform to Section 805.
  - 2.7 Geotextile Fabric. Conform to Section 843.
- **2.8 Drills.** Drill holes using a gang drill, capable of drilling a minimum of four simultaneously. Misalignment of holes shall not exceed 1/4 inch in the vertical or oblique plane.
- **2.9 Hammers.** Only use chisel point hammers weighing less than 40 pounds to remove deteriorated concrete.

## 3.0 CONSTRUCTION.

**3.1 Removal of Existing Pavement.** Remove existing pavement to the extent the Contract specifies or as the Engineer directs. The minimum length of patches measured along centerline is 3 feet on each side of an existing joint.

When working with pavements with non-skewed transverse joints, if it is necessary to remove existing pavement closer than 6 feet to a transverse joint, remove the pavement 3 feet beyond that joint .

When working with pavements with skewed transverse joints, if it is necessary to remove existing pavement closer than 3 feet to a transverse joint, remove the pavement 3 feet beyond that joint.

Details of configurations of pavement and joints for various situations are depicted in the drawings herein.

When small areas of removal and replacement are performed at bridge ends, maintain or reconstruct existing expansion joints at their existing location. When the Engineer determines extensive full width removal and replacement is required, construct new expansion joints at the locations shown on Standard Drawing No. RPN-010.

In the removal operation, make a full depth saw cut longitudinally along the centerline joint and shoulder joint and transversely along the area marked for removal. To prevent damage to the subbase, do not allow the saw to penetrate more than ½" into the subbase. The Engineer may direct or approve additional cuts within the removal area for ease of removal of the damaged slab and to prevent damage to adjacent pavement to remain in place. Do not overcut beyond the limits of the removal area. Prevent saw slurry from entering existing joints and cracks. To avoid pumping and erosion beneath the slab, do not allow traffic on sawed pavement for more than 48 hours before beginning removal procedures, unless directed by the Engineer.

Lift out the deteriorated concrete vertically with lift pins. If approved by the Engineer, use other methods that do not damage the base, shoulder, or sides of pavement that is to be left in place. If any damage does occur, repair as the Engineer directs and use an acceptable alternative method for the removal process. Do not damage the pavement base during these operations.

- **3.2 Pavement Replacement.** Do not damage the pavement base during these operations.
  - 3.2.1 Preparation of Base. Compact the new and existing aggregate base to the Engineer's satisfaction. The Engineer will accept compaction by either visual inspection or by nuclear gauge. When the Engineer deems it necessary to stabilize the existing base or replace unsuitable materials, excluding bridge ends, use 12 inches of geotextile fabric wrapped No. 2 aggregate topped with 4 inches of DGA or CSB. Use either Type III or Type IV geotextile fabric. Flowable fill and cement stabilization may be used as an alternative to stabilize the existing base or to replace unsuitable materials when a plan for such is presented to and approved by the Engineer. The Engineer may also direct using only DGA or CSB to correct base deficiencies. At bridge ends, treat existing base and subgrade as the Contract specifies. During compaction, wet the base as the Engineer directs. Compact areas not accessible to compaction equipment by hand tamping.
  - **3.2.2 Underdrains.** Construct, or repair damage to, pavement edge drains according to Section 704. If underdrains are placed omitting areas to be patched, construct additional lateral drains as necessary to provide outlets for the installed underdrain until performing the pavement replacement and completing the underdrain system. Provide drainage for any undercut or base repair areas.
  - **3.2.3 Pavement Replacement.** Using load transfer assemblies for dowel joints drill into the existing slab according to the details shown herein and on the Standard Drawings.

Use plain epoxy coated dowels of the size specified on the standard drawings based on the pavement thickness for contraction and expansion joints.

Drill holes for dowel bars and tie bars into the face of the existing slab, at a diameter as specified in the following. Drill the dowel bar holes and tie bar

holes to a depth equal to 1/2 the length of the bars. Anchor tie bars into the existing pavement using an epoxy resin. Anchor dowel bars into the existing pavement using either an epoxy resin or an adhesive grout. For tie bars and dowel bars where an epoxy resin is to be used drill the holes 1/8 inch larger than the bar diameter. For dowel bars where an adhesive grout product is to be used, drill holes 1/4 inch larger than the bar diameter. Use a clear or opaque grout retention disk in both grout and epoxy applications. Operate the equipment to prevent damage to the pavement being drilled. Obtain the Engineer's approval of the drilling procedure. Install load transfer assemblies according to the Standard Drawings and Standard Specifications.

When indicated herein or in the Standard Drawings, use 1 inch deformed tie bars, 18 inches long on 30-inch centers and starting and ending 20 inches inside the edges of the repair area in the longitudinal joint. Use 1 inch deformed tie bars, or plain epoxy coated dowel bars sized in accordance with the Standard Drawings, 18 inches long beginning 12 inches inside of each edge and on 12-inch centers in transverse construction joints.

Install the dowels and tie bars according to Section 511 unless contradicted here. Ensure the holes are dry and free of dust and debris. Use a nozzle to insert the grout or epoxy starting at the back of the drilled hole to allow for full coating of the dowel or tie bar. After placement, use a bond breaker on the section of the dowel bar that is protruding from the hole.

Mix, place, finish, and cure concrete according to Section 501 with the exception that the Department will allow truck mixing, 2-bag mixers, and hand finishing.

When required, use a form on the side of the slab at longitudinal joints. When the adjacent traffic lane is not closed to traffic or the drop-off is not protected, temporarily fill the space between the form and the adjacent pavement with DGA. After placing the slab, remove the DGA and form. Fill the hole with concrete and thoroughly consolidate by rodding, spading, and sufficient vibration to form a dense homogeneous mass. Use a form on the side of the slab adjacent to shoulders. Excavate and backfill as shown on Section F'-F'.

For patches less than 25 feet in length, use a bond breaker and do not install tie bars at the longitudinal joint. Bond breakers should not exceed 1/8 inch in thickness, e.g. tar paper.

When resurfacing is required, a float finish is satisfactory. Otherwise, broom finish or, when the adjacent surface has a grooved finish, texture the surface according to Subsection 501.03.13 H). Finish the surface, including joints, to meet a surface tolerance of 1/8 inch in 10 feet that will be verified by straightedge. Cure the pavement and apply curing membranes according to 501.03.15.

Keep all pavement surfaces adjacent to this operation reasonably clean of excess grout and other materials at all times. Maintain all original longitudinal joints. Place transverse joints according to the details shown herein and on the Standard Drawings.

- **3.3 Joint Sealing.** Seal all new or partially new joints with silicone rubber sealant or hot-poured elastic joint sealant according to Subsection 501.03.18. **4.0 MEASUREMENT**.
- **4.1 Remove JPC Pavement.** The Department will measure the quantity in square yards of surface area. The Department will not measure removal of

underlying base material for payment and will consider it incidental to Remove JPC Pavement.

- **4.2 DGA or CSB.** The Department will measure the quantity used to stabilize the existing base or to replace unsuitable material in tons. The Department will not measure removal of existing base material or underlying material for payment and will consider incidental to DGA or CSB. The quantity of DGA used for the drop-off protection shall be incidental to this work and will not be measured for payment.
- **4.3 JPC Pavement Non-Reinforced.** The Department will measure according to 501.04.01. The Department will not measure dowels, tie bars, or joint sealing for payment and will consider it incidental to Non-Reinforced JPC Pavement.

JPC Pavement will be paid according to section 5.0 below and according to the following payment schedule based on the compressive strength. The cylinders for payment will be tested two hours prior the scheduled opening of traffic.

3000 psi and up	100% payment
2750 to 3000 psi	75% payment and approval from the Engineer to open to traffic*
2500 to 2750 psi	50% payment and approval from the Engineer to open to traffic*
2250 to 2500 psi	25% payment and approval from the Engineer to open to traffic*
Below 2250 psi	10% payment and no potential to open to traffic. Maintain traffic
	closure until concrete reaches a minimum of 2250 psi.

\*If the Engineer approves opening to traffic, the Engineer will evaluate the concrete at 28 days (or sooner) to determine if the removal and replacement of the concrete is necessary due to pavement distress induced by the early opening (i.e. noticeable cracking). If required by the Engineer, remove and replace those slabs showing distress at no cost to the Department.

- **4.4 Underdrains.** The Department will measure the quantity according to Subsection 704.04. The Department will not measure lateral drains for payment and will consider them incidental to the Underdrains.
- **5.0 PAYMENT.** The Department will make payment for the completed and accepted quantities under the following:

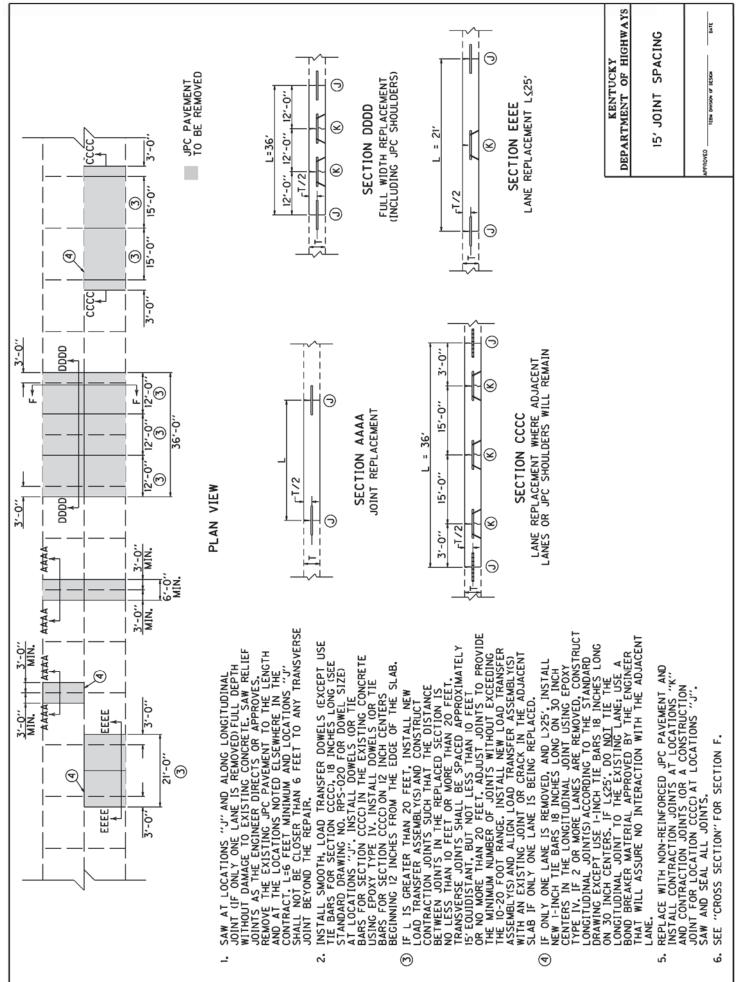
G 1	D T.	D. III.
<u>Code</u> <u>F</u>	Pay Item	Pay Unit
F	Remove JPC Pavement	Square Yard
00001 E	DGA Base	Ton
00003	Crushed Stone Base	Ton
02069-02071, 02073, J	IPC Pavement Non-Reinforced,	
02075, 02084,	thickness	See Subsection 501.05
02086, 02088		
01000 F	Perforated Pipe, 4-inch	Linear Foot
02598, 02599 F	Fabric-Geotextile, Type	Square Yard

The Department will consider payment as full compensation for all work required in this provision.

HARDIN COUNTY

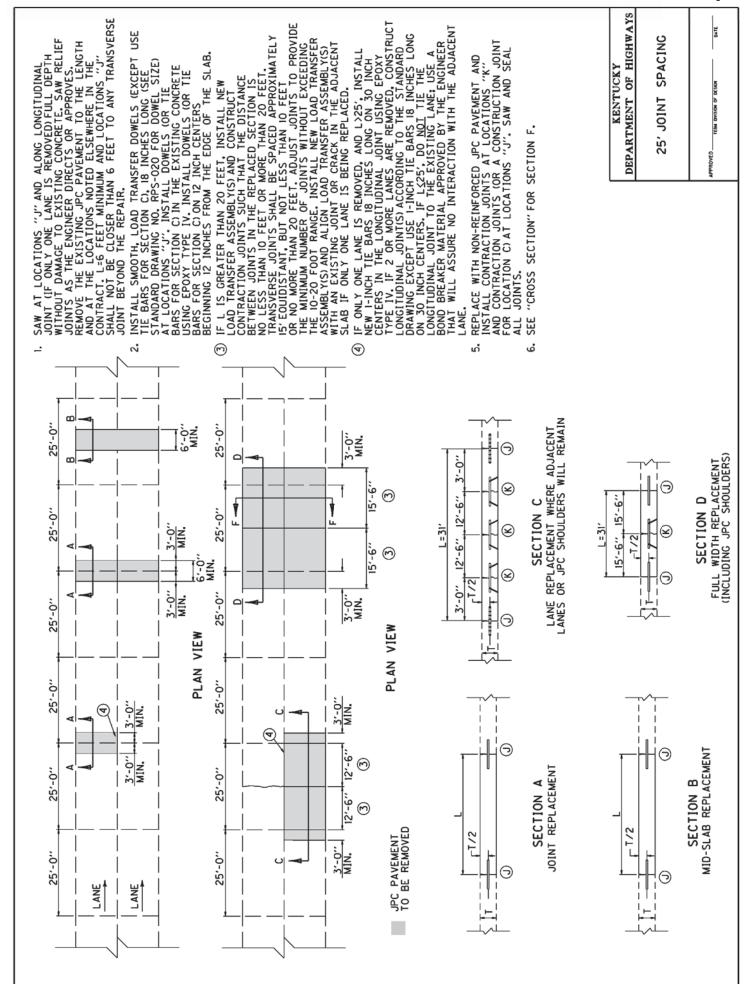
Contract ID: 192254

FD04 047 31WB 000-001 Page 89 of 104

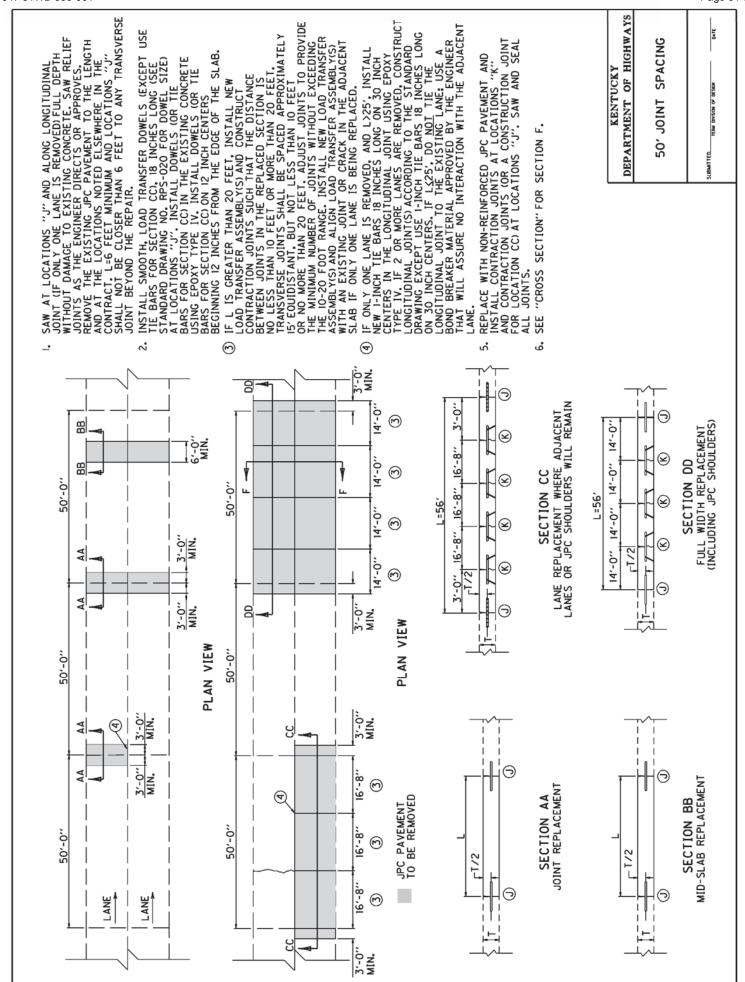


Contract ID: 192254

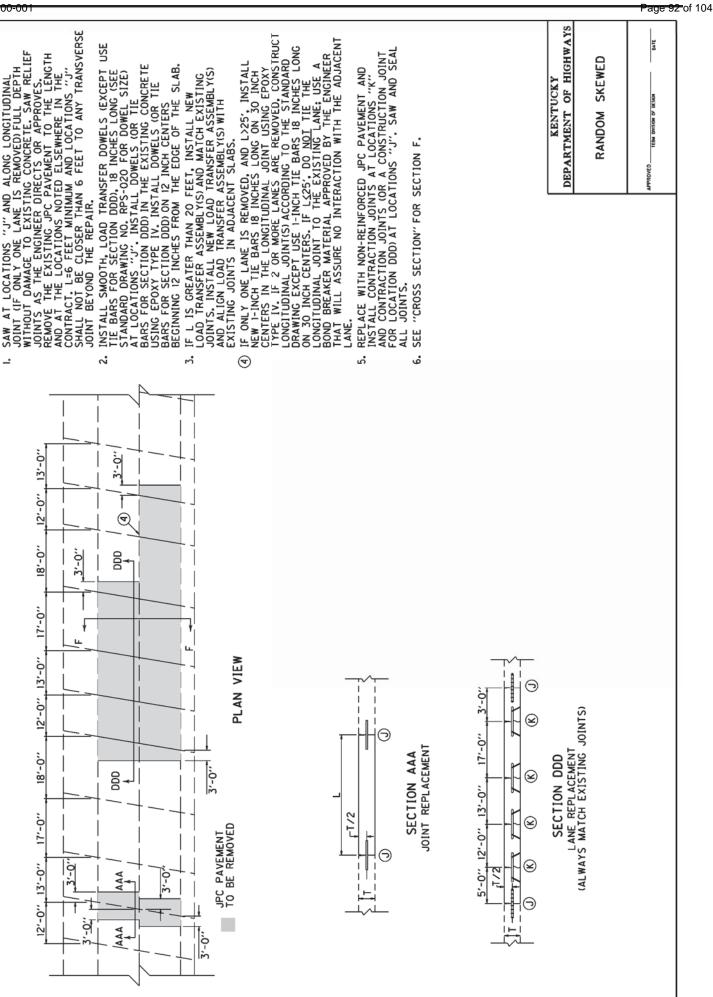
Page 90 of 104



FD04 0<del>47 31WB 000-001 Page 91 of 104 Page 91 Of 10</del>



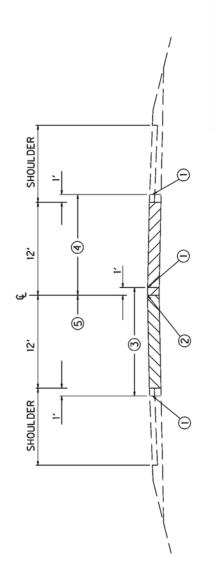
FD04 0<del>47 31WB 000-001</del>



DATE

TERM DIVISION OF DESIGN

PPROVED .



SAW-CUT LINE. THIS ONE FOOT IS TO ALLOW FOR A FORM AND THE REMOVAL AND REPLACEMENT SHALL BE INCIDENTAL TO THE WORK, EXCEPT NEW ASPHALT MIXTURE SHALL BE PAID DIRECT ON A TONNAGE BASIS, AND NEW JPC PAVEMENT WILL BE PAID BY THE SOUARE YARD. COMPACT THE DGA BASE BY MECHANICAL TAMPERS TO THE ENGINEER'S SATISFACTION. Θ

SECTION F

EXISTING LONGITUDINAL JOINT.

FIRST SLAB REMOVAL LIMITS AND REPLACE 12-FOOT LANE.

SECOND SLAB REMOVAL LIMITS AND REPLACE 12-FOOT LANE. **⊘**⊚**∮** 

THIS ONE FOOT IS TO ALLOW FOR A FORM ON THE FIRST POUR, AND A TEMPORARY PAVEMENT IS REQUIRED. THE DEPARTMENT WILL NOT REQUIRE REMOVAL OF THIS ONE FOOT IF THE GRADE OF THE EXISTING PAVEMENT IS ADEQUATE TO ENSURE THE NEW CONCRETE CAN BE PLACED AND FINISHED TO THE SATISFACTION OF THE ENGINEER. ANY TEMPORARY PAVEMENT IS INCIDENTAL TO JPC PAVEMENT.

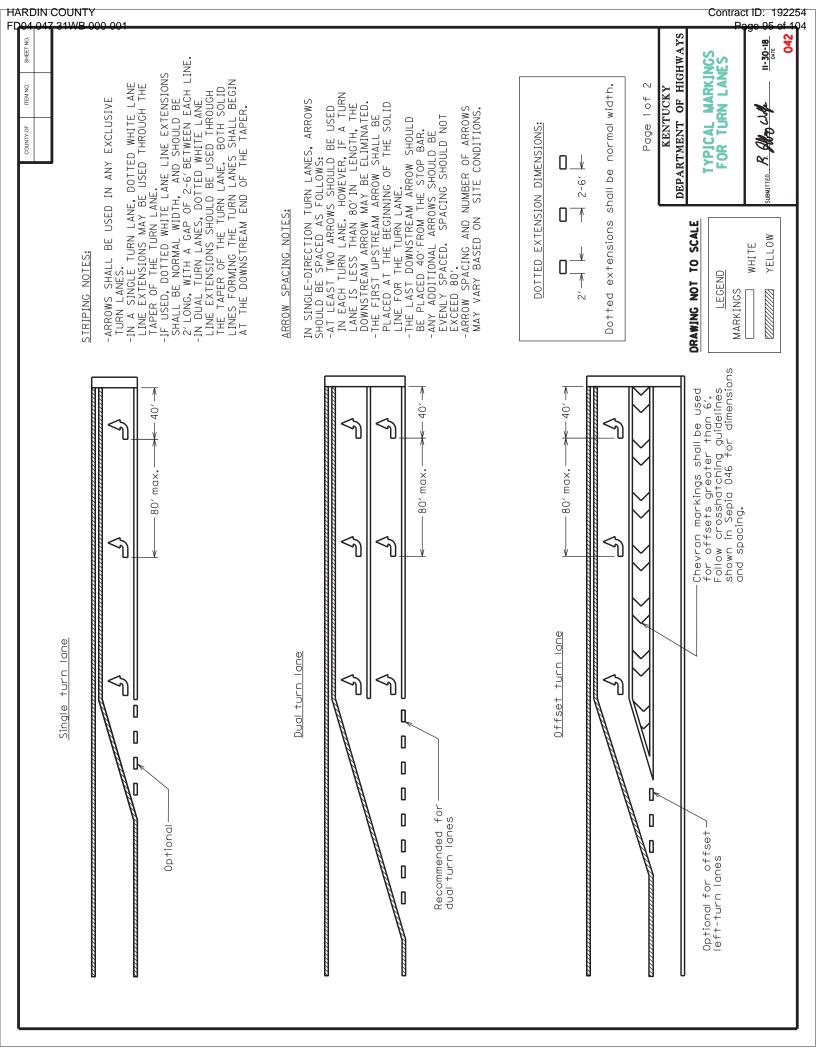
THE ABOVE DRAWING DEPICTS THE ORDER OF SLAB REMOVAL WHEN BOTH ARE TO BE REMOVED AT THE SAME LOCATION. WHEN ONLY ONE SLAB OR LANE IS TO BE REMOVED, REMOVE AND REPLACE ACCORDING TO SECTION C, CC, OR CCCC, TRAFFIC CONTROL WILL SPECIFY WHICH LANE TO REMOVE FIRST. ģ

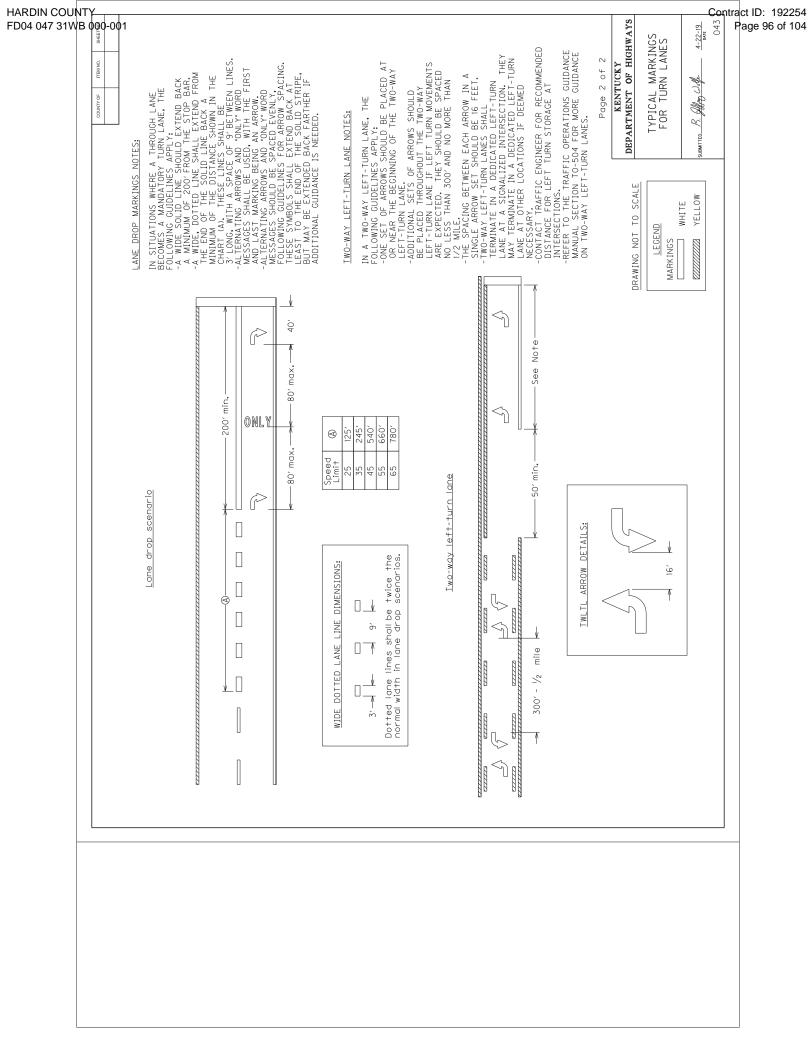
KENTUCKY
DEPARTMENT OF HIGHWAYS

CROSS SECTION

# 2016 APPLICABLE KENTUCKY STANDARD DRAWINGS

DEDECODATED DIDE TYPES AND COVED HEIGHTS	DDD 001 06
PERFORATED PIPE TYPES AND COVER HEIGHTSPERFORATED PIPE FOR SUBGRADE DRAINAGE ON TWO-LANE (CLASS 2) A	KDF-001-00 .ND MH TI_
LANE ROADS PERFORATED PIPE UNDERDRAINS (LONGITUDINAL AND TRANSVERSE)	005-05 10 006 PDP
PERFORATED PIPE HEADWALLS	
TEMPORARY SILT FENCE	
TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC	
SILT TRAP - TYPE A	
SILT TRAP - TYPE B	
SILT TRAP - TYPE C	
CURVE WIDENING AND SUPERELEVATION TRANSITIONS	DCS 001 07
SUPERELEVATION FOR MULTILANE PAVEMENT	
MISCELLANEOUS STANDARDSAPPROACHES, ENTRANCES, AND MAIL BOX TURNOUT	
JOINTED PLAIN CONCRETE PAVEMENT FOR SHOULDERS AND MEDIANS	
JOINTED PLAIN CONCRETE PAVEMENT	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINT DETAILS	RPS-010-11
EXPANSION AND CONTRACTION JOINT - LOAD TRANSFER ASSEMBLIES	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
HOT - POURED ELASTIC JOINT SEALS FOR CONCRETE PAVEMENT	
LANE CLOSURE TWO-LANE HIGHWAY	
LANE CLOSURE MULTI-LANE HIGHWAY CASE I	TTC-115-03
DOUBLE LANE CLOSURE	TTC-125-03
SHOULDER CLOSURE	
PAVEMENT CONDITION WARNING SIGNS	TTD-125-02
MOBILE OPERATION FOR PAINT STRIPING CASE I	TTS-100-02
MOBILE OPERATION FOR PAINT STRIPING CASE II	TTS-105-02
MOBILE OPERATION FOR PAINT STRIPING CASE III	TTS-110-02
MOBILE OPERATION FOR PAINT STRIPING CASE IV	
MOBILE OPERATION FOR DURABLE PAINT STRIPING CASE I	TTS-120-02
MOBILE OPERATION FOR DURABLE PAINT STRIPING CASE II	TTS-125-02
MOBILE OPERATION FOR DURABLE PAINT STRIPING CASE III	TTS-130-02
MOBILE OPERATION FOR DURABLE PAINT STRIPING CASE IV	TTS-135-02





# **PART III**

# EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

# TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

# LABOR AND WAGE REQUIREMENTS APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

- I. Application
- II. Nondiscrimination of Employees (KRS 344)

#### I. APPLICATION

- 1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.
- 2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.
- 3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

#### II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY GENERAL ASSEMBLY TO PREVENT DISCRIMINATION IN EMPLOYMENT KRS CHAPTER 344 EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

- 1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

- 3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.
- 4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

## **EXECUTIVE BRANCH CODE OF ETHICS**

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

## KRS 11A.040 (7) provides:

No present or former public servant shall, within six (6) months following termination of his office or employment, accept employment, compensation, or other economic benefit from any person or business that contracts or does business with, or is regulated by, the state in matters in which he was directly involved during the last thirty-six (36) months of his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, or for which he received, prior to his state employment, a professional degree or license, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved during the last thirty-six (36) months of his tenure in state government. This subsection shall not prohibit the performance of ministerial functions, including but not limited to filing tax returns, filing applications for permits or licenses, or filing incorporation papers, nor shall it prohibit the former officer or public servant from receiving public funds disbursed through entitlement programs.

## KRS 11A.040 (9) states:

A former public servant shall not represent a person or business before a state agency in a matter in which the former public servant was directly involved during the last thirty-six (36) months of his tenure, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

# **Kentucky Equal Employment Opportunity Act of 1978**

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under *Vendor Information*, *Standard Attachments and General Terms* at the following address: <a href="https://www.eProcurement.ky.gov">https://www.eProcurement.ky.gov</a>.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

# EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

# FEDERAL MINIMUM WAGE

**\$7.25** 

PEK HUUK

**BEGINNING JULY 24, 2009** 

## **OVERTIME PAY**

At least  $1\frac{1}{2}$  times your regular rate of pay for all hours worked over 40 in a workweek.

#### **CHILD LABOR**

An employee must be at least **16** years old to work in most non-farm jobs and at least **18** to work in non-farm jobs declared hazardous by the Secretary of Labor.

Youths **14** and **15** years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs under the following conditions:

#### No more than

- 3 hours on a school day or 18 hours in a school week;
- 8 hours on a non-school day or 40 hours in a non-school week.

Also, work may not begin before **7 a.m.** or end after **7 p.m.**, except from June 1 through Labor Day, when evening hours are extended to **9 p.m.** Different rules apply in agricultural employment.

#### **TIP CREDIT**

Employers of "tipped employees" must pay a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee's tips combined with the employer's cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference. Certain other conditions must also be met.

## **ENFORCEMENT**

The Department of Labor may recover back wages either administratively or through court action, for the employees that have been underpaid in violation of the law. Violations may result in civil or criminal action.

Employers may be assessed civil money penalties of up to \$1,100 for each willful or repeated violation of the minimum wage or overtime pay provisions of the law and up to \$11,000 for each employee who is the subject of a violation of the Act's child labor provisions. In addition, a civil money penalty of up to \$50,000 may be assessed for each child labor violation that causes the death or serious injury of any minor employee, and such assessments may be doubled, up to \$100,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.

# ADDITIONAL INFORMATION

- Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- $\bullet$  Some state laws provide greater employee protections; employers must comply with both.
- $\bullet$  The law requires employers to display this poster where employees can readily see it.
- Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer.
- Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.



Contract ID: 192254

Page 101 of 104

# **PART IV**

# **INSURANCE**

Refer to *Kentucky Standard Specifications for Road and Bridge Construction*,

current edition

# **PART V**

# **BID ITEMS**

#### Contract ID: 192254 Page 104 of 104

192254

# **PROPOSAL BID ITEMS**

**Report Date** 9/26/19

Page 1 of 1

# Section: 0001 - JPC PAVEMENT REPAIRS & DIAMOND GRINDING

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	<b>UNIT PRIC</b>	FP	AMOUNT
0010	00003	CRUSHED STONE BASE	140.00	TON		\$	
0020	00078	CRUSHED AGGREGATE SIZE NO 2 (LIMESTONE)	4.00	TON		\$	
0030	00212	CL2 ASPH BASE 1.00D PG64-22	45.00	TON		\$	
0040	00301	CL2 ASPH SURF 0.38D PG64-22	30.00	TON		\$	
0050	01000	PERFORATED PIPE-4 IN	425.00	LF		\$	
0060	01010	NON-PERFORATED PIPE-4 IN	50.00	LF		\$	
0070	01015	<b>INSPECT &amp; CERTIFY EDGE DRAIN SYSTEM</b>	1.00	LS		\$	
0800	01028	PERF PIPE HEADWALL TY 3-4 IN	2.00	EACH		\$	
0090	02058	REMOVE PCC PAVEMENT	1,184.00	SQYD		\$	
0100	02060	PCC PAVEMENT DIAMOND GRINDING	7,900.00	SQYD		\$	
0110	02073	JPC PAVEMENT-9 IN	1,184.00	SQYD		\$	
0120	02110	PARTIAL DEPTH PATCHING	5.00	CUFT		\$	
0130	02599	FABRIC-GEOTEXTILE TYPE IV	1,184.00	SQYD		\$	
0140	02676	MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0150	02677	<b>ASPHALT PAVE MILLING &amp; TEXTURING</b>	30.00	TON		\$	
0160	06556	PAVE STRIPING-DUR TY 1-6 IN W	3,500.00	LF		\$	
0170	06557	PAVE STRIPING-DUR TY 1-6 IN Y	2,800.00	LF		\$	
0180	06568	PAVE MARKING-THERMO STOP BAR-24IN	24.00	LF		\$	
0190	06574	PAVE MARKING-THERMO CURV ARROW	2.00	EACH		\$	
0200	23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	38.00	LF		\$	
0210	23270ES717	PAVE MARK TY 1 TAPE-CURV ARROW	4.00	EACH		\$	

# Section: 0002 - MAINTAIN & CONTROL TRAFFIC

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	<b>UNIT PRIC</b>	FP	AMOUNT
0220	02014		BARRICADE-TYPE III	5.00	EACH		\$	
0230	02562		TEMPORARY SIGNS	500.00	SQFT		\$	
0240	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0250	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0260	02775		ARROW PANEL	3.00	EACH		\$	
0270	06549		PAVE STRIPING-TEMP REM TAPE-B (6 INCH)	250.00	LF		\$	
0280	06550		PAVE STRIPING-TEMP REM TAPE-W	3,500.00	LF		\$	
0290	06551		PAVE STRIPING-TEMP REM TAPE-Y	2,800.00	LF		\$	
0300	22664EN		WATER BLASTING EXISTING STRIPE	6,300.00	LF		\$	

# Section: 0003 - DEMOBILIZATION

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	<b>AMOUNT</b>
0310	02569	DEMOBILIZATION	1.00	L	S	\$	