

CALL NO. 301
CONTRACT ID. 191051
CALLOWAY COUNTY
FED/STATE PROJECT NUMBER FD04 SPP 018 0641 005-007
DESCRIPTION US-641
WORK TYPE GRADE, DRAIN & SURFACE WITH BRIDGE
PRIMARY COMPLETION DATE 12/1/2021

LETTING DATE: September 20,2019

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME September 20,2019. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

PLANS AVAILABLE FOR THIS PROJECT.

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

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ADMINISTRATIVE DISTRICT - 01

CONTRACT ID - 191051 FD04 SPP 018 0641 005-007 COUNTY - CALLOWAY

PCN - DE01806411951 FD04 SPP 018 0641 005-007

US-641 (MP 5.666) MAJOR WIDENING FROM TENN. STATE LINE TO MURRAY PRIORITY SECTION 1; FROM CLARKS RIVER BRIDGE, NORTH 1.0 MILE TO EXISTING 4-LANE. (MP 6.666), A DISTANCE OF 0.97 MILES.GRADE, DRAIN & SURFACE WITH BRIDGE SYP NO. 01-00314.10.

GEOGRAPHIC COORDINATES LATITUDE 36:35:19.00 LONGITUDE 88:18:55.00

COMPLETION DATE(S):

COMPLETED BY 12/01/2021

APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

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

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

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

April 30, 2018

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

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ASPHALT MIXTURE

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

DGA BASE

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

DGA BASE FOR SHOULDERS

Unless otherwise noted, the Department estimates the rate of application for DGA Base for Shoulders to be 115 lbs/sy per inch of depth. The Department will not measure necessary grading and/or shaping of existing shoulders prior to placing of DGA Base, but shall be incidental to the Contract unit price per ton for DGA Base.

Accept payment at the Contract unit price per ton as full compensation for all labor, materials, equipment, and incidentals for grading and/or shaping of existing shoulders and furnishing, placing, and compacting the DGA Base.

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-110-06 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.

FUEL AND ASPHALT PAY ADJUSTMENT

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

ASPHALT PAVEMENT RIDE QUALITY CATEGORY A

The Department will apply Pavement Rideability Requirements on this project in accordance with Section 410, Category A.

OPTION A

Be advised that the Department will accept compaction of asphalt mixtures furnished for driving lanes and ramps, at 1 inch (25mm) or greater, on this project according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specifications. The Department will require joint cores as described in Section 402.03.02 for surface mixtures only. The Department will accept compaction of all other asphalt mixtures according to OPTION B.

MATERIAL TRANSFER VEHICLE (MTV)

Provide and use a MTV in accordance with Sections 403.02.10 and 403.03.05.

DIVISION OF TRAFFIC OPERATIONS

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

Item Number: 1-314.10
County: CALLOWAY

1 T-04-0040

Description: US 641 Juction With Glenndale Rd. in Murray

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

Signals	Signals				
8	T-02-0009	Siemens 3 Section Signal			
2	T-02-0033	Siemen 4 secton 12" signal (poly)			
8	T-02-0090	Pedestrian signal housing			
2	T-02-0300	LED Module 12" red arrow			
4	T-02-0310	LED Module 12" yellow arrow			
2	T-02-0320	LED Module 12" green arrow			
8	T-02-0330	LED Module 12" red ball			
8	T-02-0340	LED Module 12" yellow ball			
8	T-02-0350	LED Module 12" green ball			
8	T-02-0365	LED Countdown Pedestrian Module			

1 T-02-0504	Router (this includes power supply/antenna/cabling)	
8 T-09-0410	Sign Hanger for 48" signs	
2 T-09-0415	30 X 36 through 36 X 36 sign hanger (New)	
2 T-02-0660	Pedstl.top mntg.bkt Two-way	
2 T-02-0670	Pedestal	
8 T-06-0710	Ped Detector Pole Mount FSA Box	
8 T-06-0730	Ped Button w/o Plunger	
8 T-17-0015	9 X 15 Countdown Ped Sign DBL Sided	
•		
3 T-04-0030	Steel Strain Pole 32 foot	

Steel Strain Pole 34 foot

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

SPECIAL NOTE

For Tree Removal

Calloway County

Major widening from Tenn. state line to Murray priority section 1; from Clarks River Bridge, north 1.0 mile to existing 4-lane.

Item No. 1-314.10

NO CLEARING OF TREES 5 INCHES OR GREATER (DIAMETER BREAST HEIGHT) FROM JUNE 1 THROUGH JULY 31.

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

SPECIAL NOTE FOR PIPELINE INSPECTION

- 1.0 DESCRIPTION. The Department will perform visual inspections on all pipe on the project. A video inspection will be required on projects having more than 250 linear feet of storm sewer and/or culvert pipe and on routes with an ADT of greater than 1,000 vehicles. Conduct video inspections on all pipe located under the roadway and 50 percent of the remaining pipe not under the roadway. Storm sewer runs and outfall pipes not under the roadway take precedence over rural entrance pipes. Contractors performing this item of work must be prequalified with the Department in the work type J51 (Video Pipe Inspection and Cleaning). Deflection testing shall be completed using a mandrel in accordance with the procedure outlined below or by physical measurement for pipes greater than 36inches in diameter. Mandrel testing for deflection must be completed prior to the video inspection testing. Unless otherwise noted, Section references herein are to the Department's Standard Specifications for Road and Bridge Construction, current edition.
- **2.0 VIDEO INSPECTION.** Ensure pipe is clear of water, debris or obstructions. Complete the video inspection and any necessary measurement prior to placing the final surface over any pipe. When paving will not be delayed, take measurements 30 days or more after the completion of earthwork to within 1 foot of the finished subgrade. Notify the Engineer a minimum of 24 hours in advance of inspection and notify the Engineer immediately if distresses or locations of improper installation are logged.

2.1 INSPECTION FOR DEFECTS AND DISTRESSES

- **A)** Begin at the outlet end and proceed through to the inlet at a speed less than or equal to 30 ft/minute. Remove blockages that will prohibit a continuous operation.
- **B)** Document locations of all observed defects and distresses including but not limited to: cracking, spalling, slabbing, exposed reinforcing steel, sags, joint offsets, joint separations, deflections, improper joints/connections, blockages, leaks, rips, tears, buckling, deviation from line and grade, damaged coatings/paved inverts, and other anomalies not consistent with a properly installed pipe.
- C) During the video inspection provide a continuous 360 degree pan of every pipe joint.
- **D)** Identify and measure all cracks greater than 0.1" and joint separations greater than 0.5".
- **E)** Video Inspections are conducted from junction to junction which defines a pipe run. A junction is defined as a headwall, drop box inlet, curb box inlet, manhole, buried junction, or other structure that disturbs the continuity of the pipe. Multiple pipe inspections may be conducted from a single set up location, but each pipe run must be on a separate video file and all locations are to be referenced from nearest junction relative to that pipe run.
- F) Record and submit all data on the TC 64-765 and TC 64-766 forms.

- **3.0 MANDREL TESTING.** Mandrel testing will be used for deflection testing. For use on Corrugated Metal Pipe, High Density Polyethylene Pipe, and Polyvinyl Chloride Pipe, use a mandrel device with an odd number of legs (9 minimum) having a length not less than the outside diameter of the mandrel. The diameter of the mandrel at any point shall not be less than the diameter specified in Section 3.6. Mandrels can be a fixed size or a variable size.
 - 3.1 Use a proving ring or other method recommended by the mandrel manufacturer to verify mandrel diameter prior to inspection. Provide verification documentation for each size mandrel to the Engineer.
 - 3.2 All deflection measurements are to be based off of the AASHTO Nominal Diameters. Refer to the chart in section 3.6.
 - 3.3 Begin by using a mandrel set to the 5.0% deflection limit. Place the mandrel in the inlet end of the pipe and pull through to the outlet end. If resistance is met prior to completing the entire run, record the maximum distance achieved from the inlet side, then remove the mandrel and continue the inspection from the outlet end of the pipe toward the inlet end. Record the maximum distance achieved from the outlet side.
 - 3.4 If no resistance is met at 5.0% then the inspection is complete. If resistance occurred at 5.0% then repeat 3.1 and 3.2 with the mandrel set to the 10.0% deflection limit. If the deflection of entire pipe run cannot be verified with the mandrel then immediately notify the Engineer.
 - 3.5 Care must be taken when using a mandrel in all pipe material types and lining/coating scenarios. Pipe damaged during the mandrel inspection will be video inspected to determine the extent of the damage. If the damaged pipe was video inspected prior to mandrel inspection then a new video inspection is warranted and supersedes the first video inspection. Immediately notify the Engineer of any damages incurred during the mandrel inspection and submit a revised video inspection report.
 - 3.6 AASHTO Nominal Diameters and Maximum Deflection Limits.

Base Pipe Diameter	AASHTO Nominal	Max. Deflection Limit		
1	Diameter	5.0%	10.0%	
(inches)	(inches)	(iı	nches)	
15	14.76	14.02	13.28	
18	17.72	16.83	15.95	
24	23.62	22.44	21.26	
30	29.53	28.05	26.58	
36	35.43	33.66	31.89	
42	41.34	39.27	37.21	
48	47.24	44.88	42.52	
54	53.15	50.49	47.84	
60	59.06	56.11	53.15	

- **4.0 PHYSICAL MEASUREMENT OF PIPE DEFLECTION.** Alternate method for deflection testing when there is available access or the pipe is greater than 36 inches in diameter, as per 4.1. Use a contact or non-contact distance instrument. A leveling device is recommended for establishing or verifying vertical and horizontal control.
 - **4.1** Physical measurements may be taken after installation and compared to the AASHTO Nominal Diameter of the pipe as per Section 3.6. When this method is used, determine the smallest interior diameter of the pipe as measured through the center point of the pipe (D2). All measurements are to be taken from the inside crest of the corrugation. Take the D2 measurements at the most deflected portion of the pipe run in question and at intervals no greater than ten (10) feet through the run. Calculate the deflection as follows:

% Deflection = [(AASHTO Nominal Diameter - D2) / AASHTO Nominal Diameter] x 100%

Note: The Engineer may require that preset monitoring points be established in the culvert prior to backfilling. For these points the pre-installation measured diameter (D1) is measured and recorded. Deflection may then be calculated from the following formula:

% Deflection =
$$[(D1 - D2)/D1](100\%)$$

- **4.2** Record and submit all data.
- **5.0 DEDUCTION SCHEDULE.** All pipe deductions shall be handled in accordance with the tables shown below.

FLEXIBLE PIPE DEFLECTION			
Amount of Deflection (%)	Payment		
0.0 to 5.0	100% of the Unit Bid Price		
5.1 to 9.9	50% of the Unit Bid Price (1)		
10 or greater	Remove and Replace (2)		

(1) Provide Structural Analysis for HDPE and metal pipe. Based on the structural analysis, pipe may be allowed to remain in place at the reduced unit price. (2) The Department may allow the pipe to remain in place with no pay to the Contractor in instances where it is in the best interest to the public and where the structural analysis demonstrates that the pipe should function adequately.

RIGID PIPE REMEDIATION TABLE PIPE			
Crack Width (inches)	Payment		
≤ 0.1	100% of the Unit Bid Price		
Greater than 0.1	Remediate or Replace (1)		

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(1) Provide the Department in writing a method for repairing the observed cracking. Do not begin work until the method has been approved.

6.0 PAYMENT. The Department will measure the quantity in linear feet of pipe to inspect. The Department will make payment for the completed and accepted quantities under the following:

CodePay ItemPay Unit24814ECPipeline InspectionLinear Foot10065NSPipe Deflection DeductionDollars

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

TC 62-226 Rev. 01/2016 Page 1 of 1

RIGHT OF WAY CERTIFICATION

	Original		Re-Certification RIGHT OF WAY CERTIFICATION					
	ITEM	#			COUNTY	PROJ	ECT # (STATE)	PROJECT # (FEDERAL)
01-314.10		CALLOWAY		FD04 C018	6879001R	N/A		
PROJECT DESCRIPTION						- A CA CACACA		
US 64	US 641 WIDENING AND RECONSTRUCTION PRIORITY SECTION 1.							
	No Addit							
Const			-14	-	APPRIL DE L'ANDRE DE L	The right of way v	was acquired in accord	ance to FHWA regulations
							•	No additional right of way or
	ation assist					•	·	
\boxtimes	Condition	#1 (A	dditio	nal Right	of Way Required and	Cleared)		
All ne	cessary rig	ht of wa	y, inclu	ıding contı	ol of access rights wher	applicable, have l	been acquired includin	g legal and physical
posse	ssion. Trial	or appe	eal of ca	ases may b	e pending in court but l	egal possession ha	is been obtained. There	e may be some improvements
		_				•		physical possession and the
								n paid or deposited with the
								ailable to displaced persons
adequ	and the second second second second			Contract Contract Contract Contract	ance with the provisions		WA directive.	- All
71					of Way Required witl			
						_		he proper execution of the
								n has not been obtained, but sphysical possession and right
								e court for most parcels. Just
					be paid or deposited w			
		The second second			of Way Required wit		to morning of construct	and Contract
The a							mplete and/or some pa	arcels still have occupants. All
					ent housing made availa			*
								necessary right of way will not
								paid or deposited with the
court	for some p	arcels u	ntil aft	er bid letti	ng. KYTC will fully meet	all the requiremer	nts outlined in 23 CFR 6	35.309(c)(3) and 49 CFR
24.10	2(j) and wil	exped	ite com	pletion of	all acquisitions, relocati	ons, and full paym	ents after bid letting a	nd prior to
				ntract or fo	rce account construction	n.		
	umber of Par			24	EXCEPTION (S) Parcel #	# ANTICIPATED DATE OF POSSESSION WITH EXPLANATION		N WITH EXPLANATION
	er of Parcels T	hat Have	Been Ac					10000
Signed	Deed nnation			20				
Signed				4			7	
	/ Comments	(Use Ac	lditiona	Sheet if ne	cessary)			
					e, ROE obtained on all.			
Parcel:	s 25, 27 and	29 had	a IOJ da	te of 9/5/1	3 and ROE was obtained 9	/6/18. Parcel 17 ha	d a IOJ date of 9/7/18 an	d ROE was obtained on 9/10/18.
LPA RW Project Manager			Right of Way Supervisor					
Printe	ed Name					Printed Name	Grea L.	Digitally signed by Greg L.
Sig	nature					Signature	OICY L.	Morgan Date: 2019.01.22 10:16:26
[Date		269 LE 5011	77,12		Date	Morgan	-06'00'
Right of Way Director			or	FHWA				
Printe	ed Name	7	MA	۰ رو		Printed Name		
Sigi	nature	(1	MAR		Signature		20
C	Date			U)	22 Jan 19	Date		

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UTILITIES AND RAIL CERTIFICATION NOTE

Calloway County
FD04 018 0614 000-007 MARS # 6879001D
US 641 Widening
1-314.10

GENERAL PROJECT NOTE ON UTILITY PROTECTION

Adjust Valve boxes and Manhole lids for the City of Murray Municipal Utilities.

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

Murray Water
Murray Sanitary Sewer
Murray Natural Gas
Murray Electric
Murray Electric/Telecommunications
AT&T
Spectrum Cable

The Contractor is fully responsible for protection of all utilities listed above

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

Murray Electric Completed

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UTILITIES AND RAIL CERTIFICATION NOTE

Calloway County
FD04 018 0614 000-007 MARS # 6879001D
US 641 Widening
1-314.10

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE COMPANY OR THE COMPANY'S SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

List all applicable utilities whose facilities relocation either will not be completed prior to the letting date of the road construction or that will begin and be completed by the utility after the road contract letting date. During construction these areas are not to be disturbed by or conflict with road construction activities. List Owner, Utility Type, Utility Size, both current and proposed utility location and a firm completion date for each. A completion date MUST be provided for any such utility work.

Murray Water	8/5/2019
Murray Sanitary Sewer	8/5/2019
Murray Natural Gas	9/30/2019
AT&T	10/30/2019
West KY RECC	8/15/2019
Spectrum Cable	9/1/2019
Murray Electric Telecom	9/15/2019

The Department will consider submission of a bid as the Contractor's agreement to not make any claims for additional compensation due to delays or other conditions created by the operations of the above listed Utilities. Working days will not be charged for those days on which work on Utility facilities is delayed, as provided in the current edition of the KY Standard Specifications for Road and Bridge Construction. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to the project, the KYTC Resident Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and his decision shall be final and binding upon the Contractor.

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

(List N/A or None when applicable).

THE FOLLOWING RAIL CO	OMPANIES HAVE FACILITIES IN CONJUNCTION	ON WITH THIS PROJECT AS NOTED
No Rail Involved	Minimal Rail Involved (See Below)	Rail Involved (See Below)

UTILITIES AND RAIL CERTIFICATION NOTE

Calloway County
FD04 018 0614 000-007 MARS # 6879001D
US 641 Widening
1-314.10

<u>SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES</u>

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

The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating.

BEFORE YOU DIG

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

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

UTILITIES AND RAIL CERTIFICATION NOTE

Calloway County
FD04 018 0614 000-007 MARS # 6879001D
US 641 Widening
1-314.10

AREA UTILITIES CONTACT LIST

Utility Company/Agency	<u>Contact Name</u>	Contact Information
Murray Electric	Terry McCallum	270-762-1709
Murray Electric Telecomm	Brad King	270-762-5312
Murray Water	Jaimey Erwin	270-762-0350
Murray Sanitary Sewer	Jaimey Erwin	270-762-0350
Murray Natural Gas	Jaimey Erwin	270-762-0350
AT&T	Amanda Berkley	270-444-5047
Spectrum Cable	Daryl Hulsey	812-253-2755
West KY RECC	Wina Dodson	270-251-6948

N O T I C E

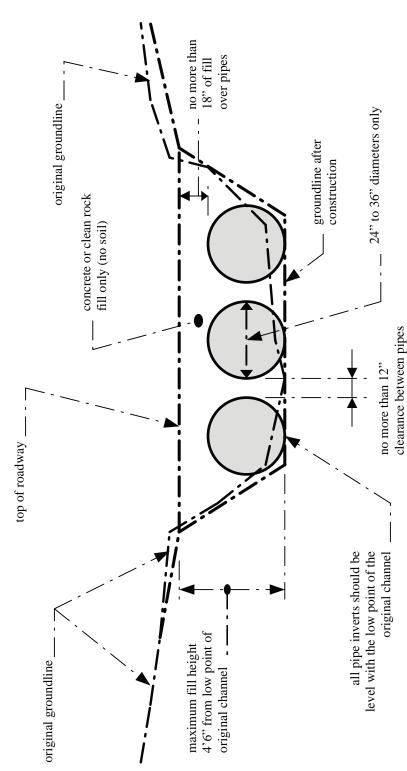
DEPARTMENT OF THE ARMY CORPS OF ENGINEERS (NATIONWIDE PERMIT & GENERAL WQC AUTHORIZATION)

PROJECT: Calloway County, Item No. 1-314.10 Major Widening US 641

The Section 404 & 401 activities for this project have been previously permitted under the authority of the Department of the Army Nationwide Permit No. 14 "Linear Transportation Projects" & Division of Water General Water Quality Certification. If there is need to cross the stream channel with heavy equipment or conduct work from within the stream channel a working platform or temporary crossing is authorized. This should be constructed with clean rock and sufficient pipe to allow stream flow to continue unimpeded (see attached typical drawing). In order for these authorizations to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Permit & General WQC in a conspicuous location at the project site for the duration of construction and comply with the general conditions as required.

To more readily expedite construction, the contractor may elect to alter the design or perform the work in a manner different from what was originally proposed and specified. Prior to commencing such alternative work, the contractor shall obtain **written** permission from the Division of Construction and the Corps of Engineers. A copy of any request to the Corps of Engineers to alter this proposal and subsequent responses shall be forwarded to the Division of Environmental Analysis, DA Permit Coordinator, for office records and for informational purposes.

ATTACHMENT 1



NOTES:

- 1. This is a conceptual drawing. The number and size of pipes and other details will vary depending on specific site conditions.
- 2. The pipes and backfill must be contained within the stream channel as shown above. During the construction of the approaches and access crushed stone, or other stable road construction materials. This may only be done, however, with the following provisions: (1) the disposal roadway across the floodplain, unstable and unconsolidated materials unsuitable for roadways may be excavated and replaced with riprap, of excess, unconsolidated materials thus excavated must be outside of the floodplain and (2) the finished surface of the completed road may be no more than three inches (3") above the pre-construction surface of the floodplain at any point beyond the top of banks.

LOW-WATER CROSSING

STANDARD DRAWING Not to Scale



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

R. BRUCE SCOTT

ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

300 Sower Boulevard FRANKFORT, KENTUCKY 40601

General Certification--Nationwide Permit # 14 Linear Transportation Projects

This General Certification is issued March 19, 2017, in conformity with the requirements of Section 401 of the Clean Water Act of 1977, as amended (33 U.S.C. §1341), as well as Kentucky Statute KRS 224.16-050.

For this and all nationwide permits, the definition of surface water is as per 401 KAR 10:001 Chapter 10, Section 1(80): Surface Waters means those waters having well-defined banks and beds, either constantly or intermittently flowing; lakes and impounded waters; marshes and wetlands; and any subterranean waters flowing in well-defined channels and having a demonstrable hydrologic connection with the surface. Lagoons used for waste treatment and effluent ditches that are situated on property owned, leased, or under valid easement by a permitted discharger are not considered to be surface waters of the commonwealth.

Agricultural operations, as defined by KRS 224.71-100(1) conducting activities pursuant to KRS 224.71-100 (3), (4), (5), (6), or 10 are deemed to have certification if they are implementing an Agriculture Water Quality Plan pursuant to KRS 224.71-145.

For all other operations, the Commonwealth of Kentucky hereby certifies under Section 401 of the Clean Water Act (CWA) that it has reasonable assurances that applicable water quality standards under Kentucky Administrative Regulations Title 401, Chapter 10, established pursuant to Sections 301, 302, 304, 306 and 307 of the CWA, will not be violated for the activity covered under NATIONWIDE PERMIT 14, namely Linear Transportation Projects, provided that the following conditions are met:

- 1. The activity will not occur within surface waters of the Commonwealth identified by the Kentucky Division of Water as Outstanding State or National Resource Water, Cold Water Aquatic Habitat, or Exceptional Waters.
- The activity will not occur within surface waters of the Commonwealth identified as perpetually-protected (e.g. deed restriction, conservation easement) mitigation sites.
- 3. The activity will impact less than 1/2 acre of wetland/marsh.



General Certification--Nationwide Permit # 14 Linear Transportation Projects Page 2

- 4. The activity will impact less than 300 linear feet of surface waters of the Commonwealth. Stream realignment greater than 100 feet and in-stream stormwater detention/retention basins are not covered under this general water quality certification.
- 5. For complete linear transportation projects, all impacts shall not exceed a cumulative length of 500 linear feet within each Hydrologic Unit Code (HUC) 14.
- 6. Any crossings must be constructed in a manner that does not impede natural water flow.
- 7. Stream impacts covered under this General Water Quality Certification and undertaken by those persons defined as an agricultural operation under the Agricultural Water Quality Act must be completed in compliance with the Kentucky Agricultural Water Quality Plan (KWQP).
- 8. The Kentucky Division of Water may require submission of a formal application for an individual certification for any project if the project has been determined to likely have a significant adverse effect upon water quality or degrade the waters of the Commonwealth so that existing uses of the water body or downstream waters are precluded.
- 9. Activities that do not meet the conditions of this General Water Quality Certification require an Individual Section 401 Water Quality Certification.
- 10. Activities qualifying for coverage under this General Water Quality Certification are subject to the following conditions:
 - Projects requiring in-stream stormwater detention/retention basins shall require individual water quality certifications.
 - Erosion and sedimentation pollution control plans and Best Management Practices must be designed, installed, and maintained in effective operating condition at all times during construction activities so that violations of state water quality standards do not occur (401 KAR 10:031 Section 2 and KRS 224.70-100).
 - Sediment and erosion control measures, such as check-dams constructed
 of any material, silt fencing, hay bales, etc., shall not be placed within
 surface waters of the Commonwealth, either temporarily or permanently,
 without prior approval by the Kentucky Division of Water's Water Quality
 Certification Section. If placement of sediment and erosion control
 measures in surface waters is unavoidable, design and placement of
 temporary erosion control measures shall not be conducted in such a
 manner that may result in instability of streams that are adjacent to,

General Certification--Nationwide Permit # 14 Linear Transportation Projects Page 3

upstream, or downstream of the structures. All sediment and erosion control devices shall be removed and the natural grade restored within the completion timeline of the activities.

- Measures shall be taken to prevent or control spills of fuels, lubricants, or other toxic materials used in construction from entering the watercourse.
- Removal of riparian vegetation in the utility line right-of-way shall be limited to that necessary for equipment access.
- To the maximum extent practicable, all in-stream work under this certification shall be performed under low-flow conditions.
- Heavy equipment, e.g. bulldozers, backhoes, draglines, etc., if required for this project, should not be used or operated within the stream channel. In those instances in which such in-stream work is unavoidable, then it shall be performed in such a manner and duration as to minimize turbidity and disturbance to substrates and bank or riparian vegetation.
- Any fill shall be of such composition that it will not adversely affect the biological, chemical, or physical properties of the receiving waters and/or cause violations of water quality standards. If rip-rap is utilized, it should be of such weight and size that bank stress or slump conditions will not be created because of its placement.
- If there are water supply intakes located downstream that may be affected by increased turbidity and suspended solids, the permittee shall notify the operator when such work will be done.
- Should evidence of stream pollution or jurisdictional wetland impairment and/or violations of water quality standards occur as a result of this activity (either from a spill or other forms of water pollution), the KDOW shall be notified immediately by calling (800) 928-2380.

Non-compliance with the conditions of this general certification or violation of Kentucky state water quality standards may result in civil penalties.

Terms for Nationwide Permit No. 14 <u>Linear Transportation Projects</u>

Activities required for crossings of waters of the United States associated with the construction, expansion, modification, or improvement of linear transportation projects (e.g., roads, highways, railways, trails, airport runways, and taxiways) in waters of the United States. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than 1/2-acre of waters of the United States. For linear transportation projects in tidal waters, the discharge cannot cause the loss of greater than 1/3-acre of waters of the United States. Any stream channel modification, including bank stabilization, is limited to the minimum necessary to construct or protect the linear transportation project; such modifications must be in the immediate vicinity of the project.

This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

This NWP cannot be used to authorize non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, train stations, or aircraft hangars.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if: (1) the loss of waters of the United States exceeds 1/10-acre; or (2) there is a discharge in a special aquatic site, including wetlands. (See general condition 32.) (Authorities: Sections 10 and 404)

Note 1: For linear transportation projects crossing a single waterbody more than one time at separate and distant locations, or multiple waterbodies at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. Linear transportation projects must comply with 33 CFR 330.6(d).

Note 2: Some discharges for the construction of farm roads or forest roads, or temporary roads for moving mining equipment, may qualify for an exemption under section 404(f) of the Clean Water Act (see 33 CFR 323.4).

Note 3: For NWP 14 activities that require pre-construction notification, the PCN must include any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings that require Department of the Army authorization but do not require pre-construction notification (see paragraph (b) of general condition 32). The district engineer will evaluate the PCN in accordance with Section D, "District Engineer's Decision." The district engineer may require mitigation to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see general condition 23).



Kentucky Transportation Cabinet Highway District 1

Α	n	d

Construction

Kentucky Pollutant Discharge Elimination System Permit KYR10 Best Management Practices (BMP) plan

Groundwater protection plan

For Highway Construction Activities

For

Reconstruct US 641 from Glendale Rd to Middle Fork of Clarks River Calloway County, KY

Project: PCN ##-###

KPDES BMP Plan Page 1 of 14

Project information

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

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

Phone number: (2)

Contact: (2)

Contractors agent responsible for compliance with the KPDES permit requirements (3):

- 4. Project Control Number (2)
- 5. Route (Address) US 641, Murray KY 42071
- 6. Latitude/Longitude (project mid-point) 36^35'19"N, 88^18'55"W
- 7. County (project mid-point) Calloway
- 8. Project start date (date work will begin): (2)
- 9. Projected completion date: (2)

A. Site description:

- Nature of Construction Activity (from letting project description) Reconstruct US 641 to a 5 lane typical section from Glendale Rd south to the Middle Fork of Clarks River
- 2. Order of major soil disturbing activities (2) and (3)
- 3. Projected volume of material to be moved 40,576 CY
- 4. Estimate of total project area (acres) 21 acres
- 5. Estimate of area to be disturbed (acres) 21 acres
- 6. Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information.
- 7. Data describing existing soil condition The geologic mapping indicates that alluvial soils consisting of sand, silt, sandy gravel, and cherty rubble are present at the site.
- 8. Data describing existing discharge water quality (if any) (1) & (2)
- 9. Receiving water name Middle Fork of Clarks River
- 10. TMDLs and Pollutants of Concern in Receiving Waters: (1 DEA)
- 11. Site map Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.
- 12. Potential sources of pollutants:

The primary source of pollutants is solids that are mobilized during storm events. Other sources of pollutants include oil/fuel/grease from servicing and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. (3)

B. Sediment and Erosion Control Measures:

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

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

- 2. Following award of the contract, the contractor and resident engineer will annotate the erosion control sheets showing location and type of BMPs for each of the DDAs that will be disturbed at the outset of the project. This annotation will be accompanied by an order of work that reflects the order or sequence of major soil moving activities. The remaining DDAs are to be designated as "Do Not Disturb" until the contractor and resident engineer prepare the plan for BMPs to be employed. The initial BMP's shall be for the first phase (generally Clearing and Grubbing) and shall be modified as needed as the project changes phases. The BMP Plan will be modified to reflect disturbance in additional DDA's as the work progresses. All DDA's will have adequate BMP's in place before being disturbed.
- 3. As DDAs are prepared for construction, the following will be addressed for the project as a whole or for each DDA as appropriate:
 - ➤ Construction Access This is the first land-disturbing activity. As soon as construction begins, bare areas will be stabilized with gravel and temporary mulch and/or vegetation.
 - ➤ At the beginning of the project, all DDAs for the project will be inspected for areas that are a source of storm water pollutants.

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Areas that are a source of pollutants will receive appropriate cover or BMPs to arrest the introduction of pollutants into storm water. Areas that have not been opened by the contractor will be inspected periodically (once per month) to determine if there is a need to employ BMPs to keep pollutants from entering storm water.

- Clearing and Grubbing The following BMP's will be considered and used where appropriate.
 - Leaving areas undisturbed when possible.
 - Silt basins to provide silt volume for large areas.
 - Silt Traps Type A for small areas.
 - Silt Traps Type C in front of existing and drop inlets which are to be saved
 - Diversion ditches to catch sheet runoff and carry it to basins or traps or to divert it around areas to be disturbed.
 - Brush and/or other barriers to slow and/or divert runoff.
 - Silt fences to catch sheet runoff on short slopes. For longer slopes, multiple rows of silt fence may be considered.
 - Temporary Mulch for areas which are not feasible for the fore mentioned types of protections.
 - Non-standard or innovative methods.
- Cut & Fill and placement of drainage structures The BMP Plan will be modified to show additional BMP's such as:
 - Silt Traps Type B in ditches and/or drainways as they are completed
 - Silt Traps Type C in front of pipes after they are placed
 - Channel Lining
 - Erosion Control Blanket
 - Temporary mulch and/or seeding for areas where construction activities will be ceased for 21 days or more.
 - Non-standard or innovative methods
- Profile and X-Section in place The BMP Plan will be modified to show elimination of BMP's which had to be removed and the addition of new BMP's as the roadway was shaped. Probably changes include:
 - Silt Trap Type A, Brush and/or other barriers, Temporary Mulch, and any other BMP which had to be removed for final grading to take place.
 - Additional Silt Traps Type B and Type C to be placed as final drainage patterns are put in place.
 - Additional Channel Lining and/or Erosion Control Blanket.
 - Temporary Mulch for areas where Permanent Seeding and Protection cannot be done within 21 days.
 - Special BMP's such as Karst Policy

KPDES BMP Plan Page 5 of 14

- Finish Work (Paving, Seeding, Protect, etc.) A final BMP Plan will result from modifications during this phase of construction. Probably changes include:
 - Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
 - Permanent Seeding and Protection
 - Placing Sod
 - Planting trees and/or shrubs where they are included in the project
- BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are: Channel Lining

C. Other Control Measures

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

2. Waste Materials

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

3. Hazardous Waste

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

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4. Spill Prevention

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

Good Housekeeping:

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

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

Hazardous Products:

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

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

The following product-specific practices will be followed onsite:

Petroleum Products:

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

The contractor shall prepare an Oil Pollution Spill Prevention Control and Countermeasure plan when the project that involves the storage of petroleum products in 55 gallon or larger containers with a total combined storage capacity of 1,320 gallons. This is a requirement of 40 CFR 112.

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

> Fertilizers:

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

> Paints:

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

Concrete Truck Washout:

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

Spill Control Practices

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

- Manufacturers' recommended methods for spill cleanup will be clearly posted. All personnel will be made aware of procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include as appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contract with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state/local agency as required by KRS 224 and applicable federal law.
- The spill prevention plan will be adjusted as needed to prevent spills from reoccurring and improve spill response and cleanup.
- Spills of products will be cleaned up promptly. Wastes from spill clean up will be disposed in accordance with appropriate regulations.

D. Other State and Local Plans

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials. (1)

E. Maintenance

- 1. The BMP plan shall include a clear description of the maintenance procedures necessary to keep the control measures in good and effective operating condition.
- Maintenance of BMPs during construction shall be a result of weekly and post rain event inspections with action being taken by the contractor to correct deficiencies.
- Post Construction maintenance will be a function of normal highway maintenance operations. Following final project acceptance by the cabinet, district highway crews will be responsible for identification and correction of deficiencies regarding ground cover and cleaning of storm water BMPs. The project manager shall identify any BMPs that will be for

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the purpose of post construction storm water management with specific guidance for any non-routine maintenance. (1)

F. Inspections

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

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

G. Non – Storm Water discharges

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

- Water from water line flushings.
- Water form cleaning concrete trucks and equipment.
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Uncontaminated groundwater and rain water (from dewatering during excavation).

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

H. Groundwater Protection Plan (3)

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

Contractors statement: (3)

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

,	'	, ,	
2. (e) la	and treatment or land disp	posal of a pollutant;	
special waste, include waste	Storing,, or related han , in tanks, drums, or o s managed in a contair d waste for disposal off sit	ther containers, or i ner placed for colle	n piles, (This does not
gallons or 100	Handling of materials in pounds net dry weight trid to the environment, wou	ransported held in a	. •
2. (j) St	toring or related handling n:	of road oils, dust s	suppressants,, at a

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KyTC BMP Plan for Project CID 01 - 801

2. (k) Application or related handling of road oils, dust suppressants or deicing materials, (does not include use of chloride-based deicing materials applied to roads or parking lots);
2. (m) Installation, construction, operation, or abandonment of wells, bore holes, or core holes, (this does not include bore holes for the purpose of explosive demolition);
Or, check the following only if there are no qualifying activities
There are no activities for this project as listed in 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan.
The contractor is responsible for the preparation of a plan that addresses the

The contractor is responsible for the preparation of a plan that addresses the

401 KAR 5:037 Section 3. (3) Elements of site specific groundwater protection plan:

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

KyTC BMP Plan for Project CID 01 - 801

Contractor and Resident Engineer Plan certification

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

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

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

Resident Engineer and Contractor Certification:

(2) Resident Engine	er signature			
Signed Typed or p	title printed name ²	,	signature	-
(3) Signed	title	,		
Typed or pri	nted name¹		signature	

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

Subcontractor

Contract ID: 191051 Page 40 of 71

KyTC BMP Plan for Project CID 01 - 801

Sub-Contractor Certification

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

	Name: Address: Address:	
	Phone:	
The pa	rt of BMP plan this subcontractor is responsible to imple	ment is:
Kentuc dischar dischar	y under penalty of law that I understand the terms and ky Pollutant Discharge Elimination System permit that a rges, the BMP plan that has been developed to manage rged as a result of storm events associated with the cor ement of non-storm water pollutant sources identified as	uthorizes the storm water the quality of water to be astruction site activity and
Signed	title, Typed or printed name ¹	signature
res des acc	Sub Contractor Note: to be signed by a person sponsible corporate officer, a general partner or the signated to have the authority to sign reports cordance with 401 KAR 5:060 Section 9. This deleg Manager, KPDES Branch, Division of Water, 14	e proprietor or a person by such a person in pation shall be in writing

Kentucky 40601. Reference the Project Control Number (PCN) and KPDES

number when one has been issued.

SPECIAL NOTE

Filing of eNOI for KPDES Construction Stormwater Permit

County: Calloway Route: US 641

Item No.: 1-314.10 KDOW Submittal ID:

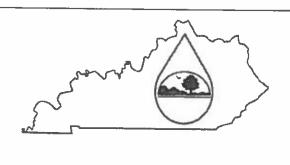
Project Description: Reconstruct US 641 from Glendale Rd to Middle Fork of

Clarks River

A Notice of Intent for obtaining coverage under the Kentucky Pollutant Discharge Elimination System (KPDES) General Permit for Stormwater Discharges Associated with Construction Activities (KYR10) has been drafted, copy of which is attached. Upon award, the Contractor will be identified in Section III of the form as the "Building Contractor" and it will be submitted for approval to the Kentucky Division of Water. The Contractor shall be responsible for advancing the work in a manner that is compliant with all applicable and appropriate KYTC specifications for sediment and erosion control as well as meeting the requirements of the KYR10 permit and the KDOW.

If there are any questions regarding this note, please contact Danny Peake, Director, Division of Environmental Analysis, TCOB, 200 Mero Street, Frankfort, KY 40622, Phone: (502) 564-7250.

Contract ID: 191051 Page 42 of 71



KENTUCKY POLLUTION DISCHARGE

ELIMINATION SYSTEM (KPDES)

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

Click here for Instructions (Controls/KPDES_FormKYR10_Instructions.htm)

Click here to obtain information and a copy of the KPDES General Permit. (http://dep.ky.gov/formslibrary/Documents/KYR10Permit/Page.pdf)

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

Application for New Permit Coverage If change to existing permit coverage is requested, describe ELIGIBILITY: Stormwater discharges associated with construction activitie construction activities that cumulatively equal one (1) acre of EXCLUSIONS: The following are excluded from coverage under this general	es disturbing i	for which mod		erage is being	4	ber:(√) ermit Number	
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The following are excluded from coverage under this general	il permit:			ore, including, i	n the case of a	common plan o	of development, contiguous
Are conducted at or on properties that have obtained an ir implementation of a Best Management Practices (BMP) plant 2) Any operation that the DOW determines an individual pent 3) Any project that discharges to an Impaired Water listed in developed.	ndividual KPI 1; mit would bel	ter address th	e discharges fr	om that operat	on:		
SECTION I FACILITY OPERATOR INFORMATION (PERM	MITTEE)						
Company Name:(V) Kentucky Transportation Cabinet		First Name (Jason	√)		M.I.: W	Last Name:(√)
Mailing Address:(*) (5501 KY Dam Road	City:(*) Paducah			State:(*) Kentucky	***************************************	•	Zip:(*) 42003
eMail Address (*) jason.looper@ky.gov	10 93		Business Ph 270-898-2			Alternate Ph	
SECTION II GENERAL SITE LOCATION INFORMATION							
Project Name:(*) US 641 Widening - SYP Item #01-314.10	101		Status of Ow State Gov	mer/Operator(* remment)	SIC Code(*)	nway and Street Const 🔻
Company Name:(√) KYTC		First Name (✓) M.I.: Jason w			Last Name (√) Looper		
Site Physical Address;(*) US 641 - Calloway County			Ö		777		
City:(*) Murray			State (*) Kentucky		•	Zip:(*) 42071	
			DMS to DD Co		Longitude(d 88.31528	i ecimal degrees))(*)
SECTION III - SPECIFIC SITE ACTIVITY INFORMATION (7)						
Project Description:(*) Widen US 641 south of Murray, Calloway County, KY from	Glendale Ro	ad Extending	South to Middle	Fork of Clark	River		500
a. For single projects provide the following information							

Anticipated Start Date(-/-) 12/1/2019 D. For common plane of development provide the Noticeving information Total Number of Acres in Project (-/-) # Acres (n.) India Number of Acres in Project (-/-) # Acres (n.) # Acres (n.) India Number of Acres in Project (-/-) # Acres (n.) India Number of India in development, if applicable (-/-) # Acres (n.) Number of India in development, if applicable (-/-) # India Number of India in development, if applicable (-/-) # India Number of India in development (-/) # India Number of India in development (-/) Number of India in development (-/) Number of India in development (-/) Number of India in development (-/	PUNTY 0641 005-007 lumber of Acres in Project:(√)	Kentucky EEC eForms Contract Pa Total Number of Acres Disturbed:(√)
12/1/2021 D. For common plans of development provide the following information Total Number of Acres 1 Disurbed (1) # Acrest 1 # Acres		18.22
D. For common plans of development provide the following information Total Number of Acres in Project;(-/) # Acreto) # Acreto #	ated Start Date:(√)	Anticipated Completion Date:(\(\)
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Number of Individual lots in development, if applicable (*) # lot(s) Number of lots in development (*) Project Acras Anticipated Start Date (*) Disturbed Acras Anticipated Start Date (*) Anticipated Start Date (*) Anticipated Start Date (*) **Example Completion Date (*) **Example Completi	lumber of Acres in Project:(/)	Total Number of Acres Disturbed:(√)
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If You decade a company of activity (/)		
If Yes, describe scope of activity: (✓) describe scope of activity		
Is a Clean Water Act 404 permit required?:(*)	describe scope of activity: ⟨✓⟩	describe scope of activity
No		

CALLOWAY COUNTY FD04 SPP 018 0641 005-007	
FD04 SPP 018 0641 005-007	

Kentucky EEC eForms

Contract ID: 191051 Page 44 of 71

	R INFORMATION								
First Name:(*)	M.I.:	Last Name:(1	*}		Company Name:(*)				
Jason	W	Looper		кутс					
Mailing Address:(*)		City:(*)			State:(*)		Zip:(*)		
5501 KY Dam Road		Paducah			Kentucky	▼	42003		
eMail Address:(*)				Business Ph	hone:(*)	Alternate Ph	one:		
}ason.looper@ky.gov				27089824	131	27021023	98		
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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

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.
- 9) 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.

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- 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

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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 TURF REINFORCING MAT

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

2.0 MATERIALS.

- 2.1 Turf Reinforcement Mat (TRM). Use a Turf Reinforcement Mat defined as permanent rolled erosion control product composed of non-degradable synthetic fibers, filaments, nets, wire mesh and/or other elements, processed into a three-dimensional matrix of sufficient thickness and from the Department's List of Approved Materials. Mats must be 100% UV stabilized materials. For TRMs containing degradable components, all physical property values must be obtained on the non-degradable portion of the matting exclusively. Ensure product labels clearly show the manufacturer or supplier name, style name, and roll number. Ensure labeling, shipment and storage follows ASTM D-4873. The Department will require manufacturer to provide TRMs that are machine constructed web of mechanically or melt bonded nondegradable fibers entangled to form a three dimensional matrix. The Department will require all long term performance property values in table below to be based on non degradable portion of the matting alone. Approved methods include polymer welding, thermal or polymer fusion, or placement of fibers between two high strength biaxially oriented nets mechanically bound by parallel stitching with polyolefin thread. Ensure that mats designated in the plans as Type 4 mats, are not to be manufactured from discontinuous or loosely held together by stitching or glued netting or composites. Type 4 mats shall be composed of geosynthetic matrix that exhibits a very high interlock and reinforcement capacities with both soil and root systems and with high tensile modulus. The Department will require manufacturer to use materials chemically and biologically inert to the natural soil environments conditions. Ensure the blanket is smolder resistant without the use of chemical additives. When stored, maintain the protective wrapping and elevate the mats off the ground to protect them from damage. The Department will not specify these materials for use in heavily acidic coal seam areas or other areas with soil problems that would severally limit vegetation growth.
 - A) Dimensions. Ensure TRMs are furnished in strips with a minimum width of 4 feet and length of 50 feet.
 - B) Weight. Ensure that all mat types have a minimum mass per unit area of 7 ounces per square yard according to ASTM D 6566.
 - C) Performance Testing: The Department will require AASHTO's NTPEP index testing. The Department will also require the manufacturer to perform internal MARV testing at a Geosynthetic Accreditation Institute Laboratory Accreditation Program (GAI-LAP) accredited laboratory for tensile strength, tensile elongation, mass per unit area, and thickness once every 24,000 yds of production or whatever rate is required to ensure 97.7% confidence under ASTM D4439& 4354. The Department will require Full scale testing for slope and channel applications shear stress shall be done under ASTM D 6459, ASTM D 6460-07 procedures.

2.2 Classifications

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

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

	Turf I	Reinforcem	ent Matting	,	
Properties ¹	Type 1	Type 2	Type 3	Type 4	Test Method
Minimum tensile Strength lbs/ft	125	150	175	3000 by 1500	ASTM D6818 ²
UV stability (minimum % tensile retention)	80	80	80	90	ASTM D4355 ³ (1000-hr exposure)
Minimum thickness (inches)	0.25	0.25	0.25	0.40	ASTM D6525
Slopes applications	2H:1V or flatter	1.5H:1V or flatter	1H:1V or flatter	1 H: 1V or greater	
Shear stress lbs/ft ² Channel applications	6.0^{4}	8.0^{4}	10.04	12.04	ASTM D6459 ASTM D6460-07

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

2.3 Quality Assurance Sampling, Testing, and Acceptance

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

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

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

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

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

- **2.4 Fasteners.** When the mat manufacturer does not specify a specific fastener, use steel wire U-shaped staples with a minimum diameter of 0.09 inches (11 gauge), a minimum width of one inch and a minimum length of 12 inches. Use a heavier gauge when working in rocky or clay soils and longer lengths in sandy soils as directed by Engineer or Manufacturer's Representative. Provide staples with colored tops when requested by the Engineer.
- **3.0 CONSTRUCTION.** When requested by the Engineer, provide a Manufacturer's Representative on-site to oversee and approve the initial installation of the mat. When requested by the Engineer, provide a letter from the Manufacturer approving the installation. When there is a conflict between the Department's criteria and the Manufacturer's criteria, construct using the more restrictive. The Engineer and Manufacturer's Representative must approve all alternate installation methods prior to execution. Construct according to the Manufacturer's recommendations and the following as minimum installation technique:
- **3.1 Site Preparation.** Grade areas to be treated with matting and compact. Remove large rocks, soil clods, vegetation, roots, and other sharp objects that could keep the mat from intimate contact with subgrade. Prepare seedbed by loosening the top 2 to 3 inch of soil.
- **3.2 Installation.** Install mats according to Standard Drawing Sepias "Turf Mat Channel Installation" and "Turf Mat Slope Installation." Install mats at the specified elevation and alignment. Anchor the mats with staples with a minimum length of 12 inches. Use longer anchors for installations in sandy, loose, or wet soils as directed by the Engineer or Manufacturer's Representative. The mat should be in direct contact with the soil surface.
- **4.0 MEASUREMENT.** The Department will measure the quantity of Turf Reinforcement Mat by the square yard of surface covered. The Department will not measure preparation of the bed, providing a Manufacturer's Representative, topsoil, or seeding for payment and will consider them incidental to the Turf Reinforcement Mat. The Department will not measure any reworking of slopes or channels for payment as it is considered corrective work and incidental to the Turf Reinforcement Mat. Seeding and protection will be an incidental item.
- **5.0 PAYMENT.** The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	Pay Item	Pay Unit
23274EN11F	Turf Reinforcement Mat 1	Square Yard
23275EN11F	Turf Reinforcement Mat 2	Square Yard
23276EN11F	Turf Reinforcement Mat 3	Square Yard
23277EN11F	Turf Reinforcement Mat 4	Square Yard

June 15, 2012

SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

- **1.0 DESCRIPTION.** Install barcode label on sheeting signs. Section references herein are to the Department's Standard Specifications for Road and Bridge Construction, current edition.
- **2.0 MATERIALS.** The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sheeting sign. A unique number will be assigned to each barcode label.

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

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

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

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

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

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

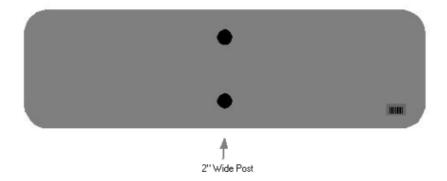
The installation of the permanent sign will be measured in accordance to Section 715.

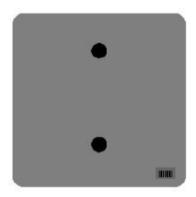
5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

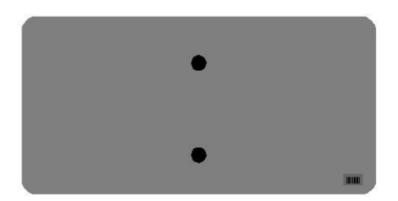
CodePay ItemPay Unit24631ECBarcode Sign InventoryEach

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

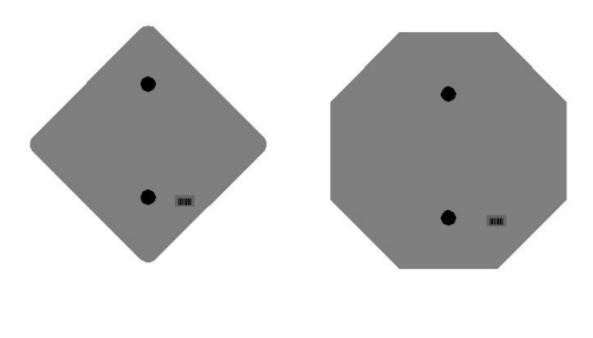
One Sign Post

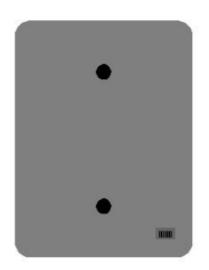


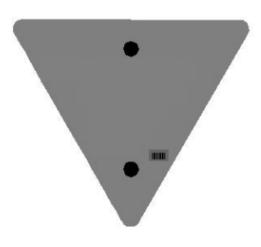




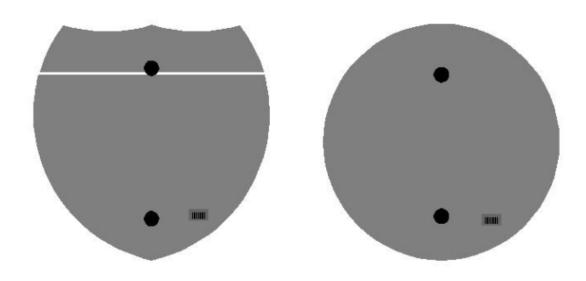
One Sign Post

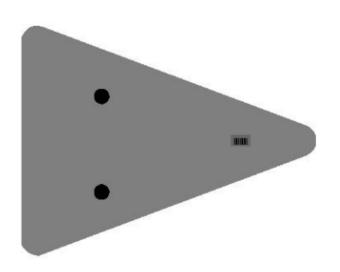






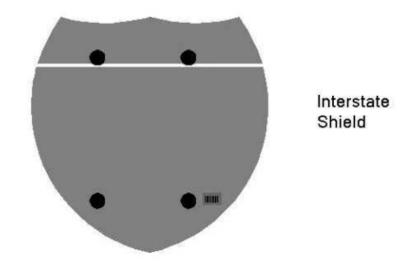
One Sign Post

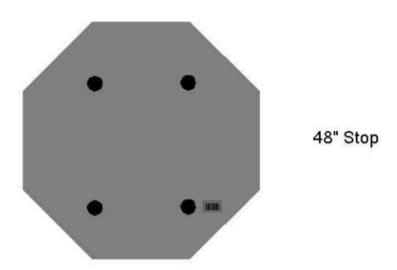




CALLOWAY COUNTY FD04 SPP 018 0641 005-007

Double Sign Post

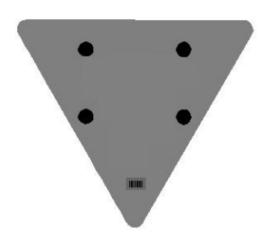




2 Post Signs







PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

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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: https://www.eProcurement.ky.gov.

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.

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EMPLOYEE RIGHTSUNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE

\$7.25

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.



PART IV

INSURANCE

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

current edition

PART V

BID ITEMS

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PROPOSAL BID ITEMS

Report Date 8/23/19

Report Date 0/23/18

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	15,117.00	TON		\$	
0020	00003		CRUSHED STONE BASE	411.00	TON		\$	
0030	00018		DRAINAGE BLANKET-TYPE II-ASPH	6,757.00	TON		\$	
0040	00100		ASPHALT SEAL AGGREGATE	34.00	TON		\$	
0050	00103		ASPHALT SEAL COAT	5.00	TON		\$	
0060	00190		LEVELING & WEDGING PG64-22	254.00	TON		\$	
0070	00212		CL2 ASPH BASE 1.00D PG64-22	604.00	TON		\$	
0800	00214		CL3 ASPH BASE 1.00D PG64-22	15,971.00	TON		\$	
0090	00221		CL2 ASPH BASE 0.75D PG64-22	356.00	TON		\$	
0100	00301		CL2 ASPH SURF 0.38D PG64-22	351.00	TON		\$	
0110	00309		CL2 ASPH SURF 0.50D PG64-22	234.00	TON		\$	
0120	00324		CL3 ASPH SURF 0.50B PG64-22	2,958.00	TON		\$	
0130	00356		ASPHALT MATERIAL FOR TACK	49.00	TON		\$	
0140	00358		ASPHALT CURING SEAL	33.00	TON		\$	
0150	02101		CEM CONC ENT PAVEMENT-8 IN	908.00	SQYD		\$	
0160	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0170	02677		ASPHALT PAVE MILLING & TEXTURING	152.00	TON		\$	
0180	02702		SAND FOR BLOTTER	80.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0190	00078	CRUSHED AGGREGATE SIZE NO 2	13,983.00	TON		\$	
0200	01000	PERFORATED PIPE-4 IN	11,877.00	LF		\$	
0210	01010	NON-PERFORATED PIPE-4 IN	120.00	LF		\$	
0220	01015	INSPECT & CERTIFY EDGE DRAIN SYSTEM	1.00	LS		\$	
0230	01024	PERF PIPE HEADWALL TY 2-4 IN	3.00	EACH		\$	
0240	01028	PERF PIPE HEADWALL TY 3-4 IN	7.00	EACH		\$	
0250	01310	REMOVE PIPE	70.00	LF		\$	
0260	01314	PLUG PIPE	3.00	EACH		\$	
0270	01717	FILL AND CAP INLET	2.00	EACH		\$	
0280	01740	CORED HOLE DRAINAGE BOX CON-4 IN	34.00	EACH		\$	
0290	01811	STANDARD CURB AND GUTTER MOD	7,142.00	LF		\$	
0300	01812	REMOVE CURB AND GUTTER	160.00	LF		\$	
0310	01875	STANDARD HEADER CURB	877.00	LF		\$	
0320	01891	ISLAND HEADER CURB TYPE 2	50.00	LF		\$	
0330	01935	MOUNTABLE MEDIAN TYPE 1	2.00	SQYD		\$	
0340	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	2.00	EACH		\$	
0350	01984	DELINEATOR FOR BARRIER - WHITE	21.00	EACH		\$	
0360	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	5.00	EACH		\$	
0370	02003	RELOCATE TEMP CONC BARRIER	260.00	LF		\$	
0380	02014	BARRICADE-TYPE III	12.00	EACH		\$	
0390	02091	REMOVE PAVEMENT	217.00	SQYD		\$	
0400	02159	TEMP DITCH	2,560.00	LF		\$	

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PROPOSAL BID ITEMS

Report Date 8/23/19

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LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	02160	CLEAN TEMP DITCH	1,280.00	LF		\$	
0420	02200	ROADWAY EXCAVATION	40,576.00	CUYD		\$	
0430	02203	STRUCTURE EXCAV-UNCLASSIFIED	415.00	CUYD		\$	
0440	02204	SPECIAL EXCAVATION	6,750.00	CUYD		\$	
0450	02219	PIPE UNDERCUT	1,430.00	CUYD		\$	
0460	02223	GRANULAR EMBANKMENT	5,338.00	CUYD		\$	
0470	02242	WATER	194.00	MGAL		\$	
0480	02351	GUARDRAIL-STEEL W BEAM-S FACE	412.50	LF		\$	
0490	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EACH		\$	
0500	02367	GUARDRAIL END TREATMENT TYPE 1	1.00	EACH		\$	
0510	02369	GUARDRAIL END TREATMENT TYPE 2A	1.00	EACH		\$	
0520	02381	REMOVE GUARDRAIL	412.00	LF		\$	
0530	02391	GUARDRAIL END TREATMENT TYPE 4A	2.00	EACH		\$	
0540	02397	TEMP GUARDRAIL	125.00	LF		\$	
0550	02429	RIGHT-OF-WAY MONUMENT TYPE 1	43.00	EACH		\$	
0560	02430	RIGHT-OF-WAY MONUMENT TYPE 1A	7.00	EACH		\$	
0570	02432	WITNESS POST		EACH		\$	
0580	02483	CHANNEL LINING CLASS II	1,431.00	TON		\$	
0590	02484	CHANNEL LINING CLASS III	92.00	TON		\$	
		CLEARING AND GRUBBING					
0600	02545	APPROXIMATELY 21 ACRES	1.00	LS		\$	
0610	02555	CONCRETE-CLASS B	135.00	CUYD		\$	
0620	02562	TEMPORARY SIGNS	1,056.00	SQFT		\$	
0630	02585	EDGE KEY	82.00	LF		\$	
0640	02596	FABRIC-GEOTEXTILE TYPE I	3,126.00	SQYD		\$	
0650	02598	FABRIC-GEOTEXTILE TYPE III	14,634.00	SQYD		\$	
0660	02599	FABRIC-GEOTEXTILE TYPE IV	6,000.00	SQYD		\$	
0670	02600	FABRIC GEOTEXTILE TY IV FOR PIPE	7,610.00	SQYD	\$2.00	\$	\$15,220.00
0680	02611	HANDRAIL-TYPE A-1	365.00	LF		\$	
0690	02650	MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0700	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0710	02690	SAFELOADING	31.00	CUYD		\$	
0720	02701	TEMP SILT FENCE	2,560.00	LF		\$	
0730	02703	SILT TRAP TYPE A	21.00	EACH		\$	
0740	02704	SILT TRAP TYPE B	21.00	EACH		\$	
0750	02705	SILT TRAP TYPE C	21.00	EACH		\$	
0760	02706	CLEAN SILT TRAP TYPE A	21.00	EACH		\$	
0770	02707	CLEAN SILT TRAP TYPE B	21.00	EACH		\$	
0780	02708	CLEAN SILT TRAP TYPE C	21.00	EACH		\$	
0790	02720	SIDEWALK-4 IN CONCRETE	3,654.00	SQYD		\$	
0800	02726	STAKING	1.00	LS		\$	
0810	02731	REMOVE STRUCTURE 4'X3' RCBC STA. 142+35	1.00	LS		\$	
0820	02731	REMOVE STRUCTURE DOUBLE 12.5'X6.5' RCBC STA. 148+21	1.00	LS		\$	
0830	02731	REMOVE STRUCTURE TRIPLE 8'X6.5' RCBC STA. 148+21	1.00	LS		\$	
0840	02775	ARROW PANEL		EACH		\$	
		RELOCATE CRASH CUSHION					
0850 0860	02898 03171	CONCRETE BARRIER WALL TYPE 9T	2.00 1,580.00	EACH LF		\$ \$	

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LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0870	05950	EROSION CONTROL BLANKET	19,292.00	SQYD		\$	
0880	05952	TEMP MULCH	67,760.00	SQYD		\$	
0890	05953	TEMP SEEDING AND PROTECTION	50,820.00	SQYD		\$	
0900	05963	INITIAL FERTILIZER	3.00	TON		\$	
0910	05964	MAINTENANCE FERTILIZER	4.00	TON		\$	
0920	05985	SEEDING AND PROTECTION	53,102.00	SQYD		\$	
0930	05990	SODDING	22,735.00	SQYD		\$	
0940	05992	AGRICULTURAL LIMESTONE	48.00	TON		\$	
0950	06406	SBM ALUM SHEET SIGNS .080 IN	263.00	SQFT		\$	
0960	06410	STEEL POST TYPE 1	565.00	LF		\$	
0970	06510	PAVE STRIPING-TEMP PAINT-4 IN	47,740.00	LF		\$	
0980	06514	PAVE STRIPING-PERM PAINT-4 IN	20,233.00	LF		\$	
0990	06550	PAVE STRIPING-TEMP REM TAPE-W	710.00	LF		\$	
1000	06551	PAVE STRIPING-TEMP REM TAPE-Y	541.00	LF		\$	
1010	06566	PAVE MARKING-THERMO X-WALK-12 IN	406.00	LF		\$	
1020	06568	PAVE MARKING-THERMO STOP BAR-24IN	170.00	LF		\$	
1030	06570	PAVE MARKING-PAINT CROSS-HATCH	2,598.00	SQFT		\$	
1040	06574	PAVE MARKING-THERMO CURV ARROW	31.00	EACH		\$	
1050	06575	PAVE MARKING-THERMO COMB ARROW	2.00	EACH		\$	
1060	06588	PAVEMENT MARKER TY IVA-BY TEMP	38.00	EACH		\$	
1070	06600	REMOVE PAVEMENT MARKER TYPE V	17.00	EACH		\$	
1080	08903	CRASH CUSHION TY VI CLASS BT TL3	5.00	EACH		\$	
1090	10020NS	FUEL ADJUSTMENT	57,438.00	DOLL	\$1.00	\$	\$57,438.00
1100	10030NS	ASPHALT ADJUSTMENT	81,378.00	DOLL	\$1.00	\$	\$81,378.00
1110	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	2.00	EACH		\$	
1120	20099ES842	PAVE MARK TEMP PAINT STOP BAR	72.00	LF		\$	
1130	20100ES842	PAVE MARK TEMP PAINT LINE ARROW	10.00	EACH		\$	
1140	20191ED	OBJECT MARKER TY 3	1.00	EACH		\$	
1150	20550ND	SAWCUT PAVEMENT	1,218.00	LF		\$	
1160	21289ED	LONGITUDINAL EDGE KEY	3,590.00	LF		\$	
1170	23158ES505	DETECTABLE WARNINGS	353.00	SQFT		\$	
1180	23274EN11F	TURF REINFORCEMENT MAT 1	418.00	SQYD		\$	
1190	24489EC	INLAID PAVEMENT MARKER	291.00	EACH		\$	
1200	24631EC	BARCODE SIGN INVENTORY	56.00	EACH		\$	
1210	24814EC	PIPELINE INSPECTION	1,804.00	LF		\$	
		TEMP GUARDRAIL ATTACH TO EXIST BOX					
1220	25032ED	CULV	1.00	LS		\$	
1230	25033ED	RELOCATE BRICK COLUMNS	1.00	LS		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1240	00440		ENTRANCE PIPE-15 IN	121.00	LF		\$	
1250	00441		ENTRANCE PIPE-18 IN	44.00	LF		\$	
1260	00443		ENTRANCE PIPE-24 IN	51.00	LF		\$	
1270	00450		ENTRANCE PIPE-15 IN EQUIV	36.00	LF		\$	
1280	00462		CULVERT PIPE-18 IN	144.00	LF		\$	
1290	00496		CULVERT PIPE-36 IN EQUIV	60.00	LF		\$	
1300	00498		CULVERT PIPE-42 IN EQUIV	60.00	LF		\$	

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LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1310	00522	STORM SEWER PIPE-18 IN	1,742.00	LF		\$	
1320	00524	STORM SEWER PIPE-24 IN	210.00	LF		\$	
1330	00526	STORM SEWER PIPE-30 IN	765.00	LF		\$	
1340	00528	STORM SEWER PIPE-36 IN	176.00	LF		\$	
1350	00529	STORM SEWER PIPE-42 IN	140.00	LF		\$	
1360	00530	STORM SEWER PIPE-48 IN	235.00	LF		\$	
1370	00558	STORM SEWER PIPE-36 IN EQUIV	76.00	LF		\$	
1380	01204	PIPE CULVERT HEADWALL-18 IN	2.00	EACH		\$	
1390	01370	METAL END SECTION TY 1-15 IN	6.00	EACH		\$	
1400	01371	METAL END SECTION TY 1-18 IN	2.00	EACH		\$	
1410	01391	METAL END SECTION TY 3-18 IN	1.00	EACH		\$	
1420	01393	METAL END SECTION TY 3-24 IN	2.00	EACH		\$	
1430	01394	METAL END SECTION TY 3-30 IN	2.00	EACH		\$	
1440	01395	METAL END SECTION TY 3-36 IN	2.00	EACH		\$	
1450	01396	METAL END SECTION TY 3-42 IN	2.00	EACH		\$	
1460	01456	CURB BOX INLET TYPE A	27.00	EACH		\$	
1470	01496	DROP BOX INLET TYPE 3	1.00	EACH		\$	
1480	01505	DROP BOX INLET TYPE 5B	2.00	EACH		\$	
1490	01544	DROP BOX INLET TYPE 11	5.00	EACH		\$	
1500	01644	JUNCTION BOX-30 IN	1.00	EACH		\$	
1510	01647	JUNCTION BOX-48 IN	1.00	EACH		\$	
1520	01767	MANHOLE TYPE C	3.00	EACH		\$	
1530	21880NN	METAL END SECTION TY 3-42 IN (EQUIV)	2.00	EACH		\$	
1540	21981NN	METAL END SECTION TY 3-36 IN (EQUIV)	4.00	EACH		\$	

Section: 0004 - BRIDGE-CULVERT

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1550	02403		REMOVE CONCRETE MASONRY	179.90	CUYD		\$	
1560	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1570	08100		CONCRETE-CLASS A	325.70	CUYD		\$	
1580	08150		STEEL REINFORCEMENT	32,577.00	LB		\$	

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1590	04792		CONDUIT-1 IN	110.00	LF		\$	
1600	04811		ELECTRICAL JUNCTION BOX TYPE B	2.00	EACH		\$	
1610	04820		TRENCHING AND BACKFILLING	200.00	LF		\$	
1620	04830		LOOP WIRE	2,000.00	LF		\$	
1630	04844		CABLE-NO. 14/5C	2,400.00	LF		\$	
1640	04850		CABLE-NO. 14/1 PAIR	1,000.00	LF		\$	
1650	04884		ANCHOR	2.00	EACH		\$	
1660	04886		MESSENGER-15400 LB	400.00	LF		\$	
1670	04895		LOOP SAW SLOT AND FILL	830.00	LF		\$	
1680	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		\$	
1690	20093NS835		INSTALL PEDESTRIAN HEAD-LED	8.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1700	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	20.00	EACH		\$	
1710	20188NS835		INSTALL LED SIGNAL-3 SECTION	8.00	EACH		\$	
1720	20266ES835		INSTALL LED SIGNAL- 4 SECTION	2.00	EACH		\$	
1730	20390NS835		INSTALL COORDINATING UNIT	1.00	EACH		\$	
1740	21743NN		INSTALL PEDESTRIAN DETECTOR	8.00	EACH		\$	
1750	23157EN		TRAFFIC SIGNAL POLE BASE	22.50	CUYD		\$	
1760	23222EC		INSTALL SIGNAL PEDESTAL	2.00	EACH		\$	
1770	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	100.00	LF		\$	
1780	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	40.00	LF		\$	
1790	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH		\$	
1800	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	

Section: 0006 - LANDSCAPING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1810	20000ES724		TREE EASTERN RED CEDAR	5.00	EACH		\$	
1820	20014ES724		EASTERN REDBUD	6.00	EACH		\$	
1830	20511NS724		PIN OAK	4.00	EACH		\$	
1840	20566NS724		FLOWERING DOGWOOD	10.00	EACH		\$	

Section: 0007 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC FP	AMOUNT
1850	02568	MOBILIZATION	1.00	LS	\$	
1860	02569	DEMOBILIZATION	1.00	LS	\$	