



COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

Andy Beshear  
GOVERNOR

Jim Gray  
SECRETARY

January 27, 2021

CALL NO. 337  
CONTRACT ID NO. 213007  
ADDENDUM # 1

Subject: MONROE COUNTY, CB06 086 0100 028-029  
Letting January 29, 2021

- (1) Revised - Traffic Control Plan - Pages 23-25(a) of 48
- (2) Added - Geotechnical Landslide Recommendation Memorandum - Pages 1-5 of 5

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in black ink that reads "Rachel Mills".

Rachel Mills, P.E.  
Director  
Division of Construction Procurement

RM:mr  
Enclosures

## TRAFFIC CONTROL PLAN FOR SLIDE CORRECTION DRILLED RAILROAD RAIL PILING

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### TRAFFIC CONTROL GENERAL

Except as specified herein, maintain and control traffic in accordance with the Standard and Supplemental Specifications and the Standard and Sepia Drawings, current editions. Except for the roadway and traffic control bid items listed, furnish all other items necessary to maintain and control traffic incidental to the Contract lump sum price Maintain and Control Traffic.

Contrary to Section 106.01, furnish new, or used in like new condition, traffic control devices, at the beginning of the work and maintain the devices in like new condition until completion of the work.

### PROJECT PHASING & CONSTRUCTION PROCEDURES

At the discretion of the Engineer, the Department may specify days and hours when lane closures will not be allowed. Prior to beginning work, provide a proposed lane closure and work schedule for the approval of the Engineer. The Department will provide public notification except for the school and emergency services as provided for Phase I. Notify the Engineer immediately and obtain prior approval of any proposed deviations from the approved schedule.

**PHASE I:** - Notify the US Postal Service, Monroe County Schools, and Emergency Services 2 weeks in advance of any road closures. Install detour signs as detailed in detour plan for phase I.

**PHASE II:** - Road closures will only be allowed while Monroe county schools are dismissed for the summer break and school busses have stopped their routes. Dismissal is expected at the end of May and expected return mid-August. Obtain engineers approval for allowed closure dates.

Close KY 100 28-29 mile point slide location to through traffic and maintain the road closure during this phase. Perform all repairs except milling, final resurfacing, and striping. Compact the asphalt base to the compaction required in Section 403.03.10. Seal the asphalt base with leveling and wedging. Complete this part of Phase II and reopen the road to a minimum one way alternating traffic within 25 calendar days.

**PHASE III:** - Once recycled railroad cribbing, backfill, and culvert pipe installation is completed, milling, final resurfacing, and permanent striping shall not be done until after a minimum of 7 days of open road vehicular traffic. Level and wedge any settlement of the repair areas until the Engineer determines the backfill and culvert pipe area are sufficiently stabilized for placement of final surface.

**PHASE IV:** – Once the Engineer determines the backfill and culvert pipe area are sufficiently stabilized, level and wedge any settlement of the repair areas and perform milling, final resurfacing, and permanent striping.

During Phases III and IV, maintain alternating one way traffic during working hours. Unless directed otherwise by the Engineer, provide a minimum clear lane width of eight (8) feet. Do not leave **lane** closures in place during non-working hours unless sufficient alternating one lane traffic

## Traffic Control Plan for Slide Correction

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can be maintained. Shoulder closures may be maintained during nonworking hours; however do not park vehicles or store materials on a closed shoulder during non-working hours. If traffic should be stopped due to construction operations under a lane closure, and a school bus on an official run arrives on the scene, immediately make provisions for the passage of the bus. Except for placement of the final course of asphalt surface, the Engineer will permit night work. Obtain the Engineer's approval of the method of lighting prior to use. Road closures will not have a signed detour.

All work necessary for installing and maintaining all closures road/lane shall be incidental to Maintain control traffic.

### **CHANGEABLE MESSAGE SIGNS**

The Department will furnish, operate, and maintain Changeable Message Signs. One sign is to be setup at intersection of KY 100 and KY 2439. Another shall be setup at the intersection of KY 100 and Hickory Ridge Road. Additional maybe directed by the engineer.

### **SIGNS**

Contrary to section 112.04.02, the Department will measure only long term signs (signs intended to be continuously in place for more than 3 days) for payment. The Department will not measure; short term signs (signs intended to be left in place for 3 days or less) for payment, but shall be incidental to Maintain and Control Traffic. Contrary to Section 112.04.02, the Department will measure individual signs only once for payment, regardless of how many times they are erected or relocated.

Relocate and reset or cover existing permanent signs as required by the work. Obtain the Engineer's approval before removing or covering an existing sign. The Department will not measure relocating and resetting or covering existing permanent signs, but shall be incidental to Maintain and Control Traffic.

During or upon completion of construction, the Department will erect any additional permanent signing deemed necessary by the Engineer. The Engineer will coordinate the Department's operations with the Contractor's work.

### **BARRICADES**

The Department will not measure Barricades used in lieu of barrels and cones for channelization or delineation, but shall be incidental to Maintain and Control Traffic according to Section 112.04.01. The Department will measure Barricades used for protection of pavement removal areas according to Section 112.04.04.

The Department will measure individual barricades only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged barricades directed by the Engineer to be replaced due to poor condition or reflectivity. Retain possession of the barricades upon completion of the work.

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## **PROJECT TRAFFIC COORDINATOR**

In addition to the requirements of Section 112.03.12(B), during any period when a lane closure is in place, the Project Traffic Coordinator shall arrange for qualified personnel to be present on the project at all times to inspect the traffic control and to maintain the signing and devices. Provide the project personnel with access on the project to a radio or telephone to be used in case of emergencies or accidents.

## **TEMPORARY ENTRANCES**

Within the project limits and during phases of work the Engineer will not require the Contractor to provide continuous access to farms, single family, duplex, or triplex residential properties during working hours; however, provide reasonable egress and ingress to each such property when actual operations are not in progress at that location. Limit the time during which a farm or residential entrance is blocked to the minimum required for actual operations in the vicinity of the entrance, and do not extend the time for the Contractor's convenience, and in no case allow an entrance closure to exceed six (8) hours. Notify all residents twenty-four hours in advance of any driveway or entrance closings and make any accommodations necessary to meet the access needs of disabled residents. Maintain direct access to all side streets and roads, schools, churches, commercial properties and apartments or apartment complexes of four or more units at all times.

## **PAVEMENT EDGE DROP-OFFS**

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

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

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. The Engineer will allow cones to be used in lieu of plastic drums, panels, and barricades during daylight working hours only. Wedge drop-offs within 10 feet of traffic with DGA or asphalt mixture for leveling and wedging as directed or approved by the Engineer with a 1:1 or flatter slope in daylight working hours, or 3:1 or flatter slope during nighttime hours or when work is not active in the drop-off area.

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

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Pedestrians and Bicycles – Protect pedestrians and bicycles as directed by the Engineer.

1-3802 Traffic Control Plan Slide Correction  
01/02/2012

**(L-119-2018)**

**M E M O R A N D U M**

**TO: Heath Crawford, PE  
Project Delivery & Preservation Branch II  
District 3, Bowling Green**

**FROM: Michael Carpenter, P.E.  
Geotechnical Branch Manager  
Division of Structural Design**

**BY: Adam Ross, P.E.  
Geotechnical Branch**

**DATE: January 22, 2019**

**SUBJECT: Monroe County  
KY 100 approximate MP 28.6  
Geotechnical Landslide Recommendation**

At the request of the District, the Geotechnical Branch conducted an evaluation of a landslide located on KY 100 in Monroe County at approximately MP 28.6. The failure area is approximately 200 feet in length and is affecting both driving lanes.

A subsurface exploration was conducted on December 18, 2018. The investigation consisted of three rockline soundings in the driving lane of the roadway. Depths to rock ranged from 13.5 feet to 21.0 feet. The roadside ditch above the failure area was noted to potentially hold water. The failure is assumed to be caused by excessive water in the embankment, and to be moving on top of bedrock.

The Geotechnical Branch recommends installing recycled railroad rails to form a retaining wall. The rails are to be drilled into bedrock at least 1/3 of their total length. It is assumed that 40 foot rails will be needed for this repair. Rails are to be placed in a double row 3.0 feet on centers and be cutoff 1.0 foot below roadway grade. The second row of rails is to be placed 2.0 feet behind the first row, and offset 1.5 feet from the rails in the first row and spaced 3.0 feet on centers as well, producing an effective spacing of 1.5 between rails.

### GEOLOGIST'S SUBSURFACE LOG

Project ID: <b><u>L-118-2018</u></b>		<b><u>Monroe - KY-100 MP 28.6-</u></b>			Project Type: <b><u>Landslide</u></b>				
Item Number: <b><u>03-0000.00</u></b>		Project Manager: <b><u>Adam Ross</u></b>							
Hole Number <b><u>1</u></b>		Immediate Water Depth <b><u>NA</u></b>		Start Date <b><u>12/18/2018</u></b>			Hole Type <b><u>sounding</u></b>		
Surface Elevation <b><u>'</u></b>		Static Water Depth <b><u>NA</u></b>		End Date <b><u>12/18/2018</u></b>			Rig_Number <b><u>0094-320</u></b>		
Total Depth <b><u>18.4'</u></b>		Driller <b><u>Mark Holbrook</u></b>		Latitude(83) <b><u>__</u></b>			<b><u>GQ-</u></b>		
Location <b><u>0+40.00 CL</u></b>		Geologist <b><u>__</u></b>		Longitude(83) <b><u>__</u></b>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5									5
10									10
15									15
20									20
25		(Bottom of Hole 18.4') (Refusal @ 18.4)							25
30									30
35									35
40									40
45									45
50									50
Top of Rock = 18.4' Elevation = '									

## GEOLOGIST'S SUBSURFACE LOG

Project ID: <b><u>L-118-2018</u></b>		<b><u>Monroe - KY-100 MP 28.6-</u></b>			Project Type: <b><u>Landslide</u></b>				
Item Number: <b><u>03-0000.00</u></b>		Project Manager: <b><u>Adam Ross</u></b>							
Hole Number <b><u>2</u></b>		Immediate Water Depth <b><u>NA</u></b>		Start Date <b><u>12/18/2018</u></b>		Hole Type <b><u>sounding</u></b>			
Surface Elevation <b><u>'</u></b>		Static Water Depth <b><u>NA</u></b>		End Date <b><u>12/18/2018</u></b>		Rig_Number <b><u>0094-320</u></b>			
Total Depth <b><u>21.0'</u></b>		Driller <b><u>Mark Holbrook</u></b>		Latitude(83) <b><u>__</u></b>		<b><u>GQ-</u></b>			
Location <b><u>0+90.00 CL</u></b>		Geologist <b><u>__</u></b>		Longitude(83) <b><u>__</u></b>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5									5
10									10
15									15
20									20
25		(Bottom of Hole 21.0') (Refusal @ 21)							25
30									30
35									35
40									40
45									45
50									50
Top of Rock = 21.0' Elevation = '									

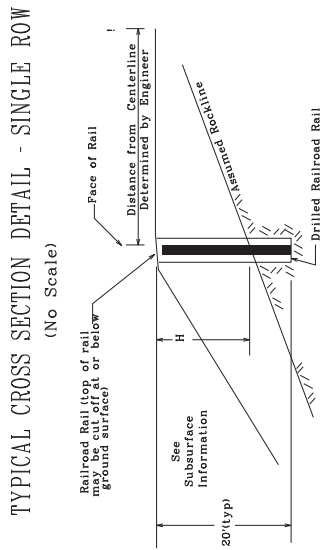
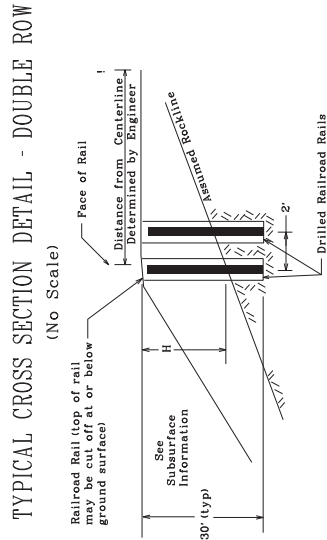
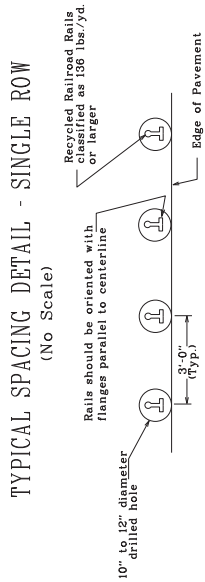
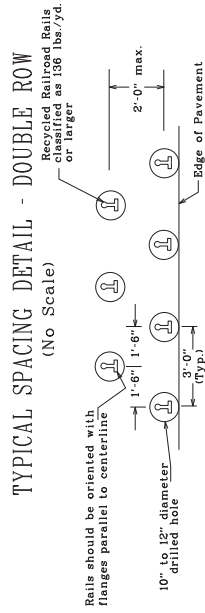


### GEOLOGIST'S SUBSURFACE LOG

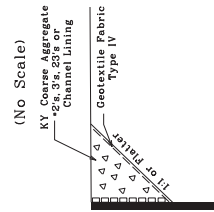
Project ID: <b><u>L-118-2018</u></b>		<b><u>Monroe - KY-100 MP 28.6-</u></b>			Project Type: <b><u>Landslide</u></b>				
Item Number: <b><u>03-0000.00</u></b>					Project Manager: <b><u>Adam Ross</u></b>				
Hole Number <b><u>3</u></b>		Immediate Water Depth <b><u>NA</u></b>		Start Date <b><u>12/18/2018</u></b>		Hole Type <b><u>sounding</u></b>			
Surface Elevation <b><u>'</u></b>		Static Water Depth <b><u>NA</u></b>		End Date <b><u>12/18/2018</u></b>		Rig_Number <b><u>0094-320</u></b>			
Total Depth <b><u>15.5'</u></b>		Driller <b><u>Mark Holbrook</u></b>		Latitude(83) <b><u>__</u></b>		<b><u>GQ-</u></b>			
Location <b><u>1+55.00 CL</u></b>		Geologist <b><u>__</u></b>		Longitude(83) <b><u>__</u></b>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5									5
10									10
15									15
20		(Bottom of Hole 15.5') (Refusal @ 13.5)							20
25									25
30									30
35									35
40									40
45									45
50									50

COUNTY OF	ITEM NO.	SHEET NO.

TYPICAL PLAN VIEW  
 (NO SCALE)



**TYPICAL CROSS SECTION WITH BACKFILL**  
 (Use with Either Double or Single Row)



DESIGNED BY: \_\_\_\_\_  
 DATE SUBMITTED: \_\_\_\_\_

COMTOWSEAL  
 DEPARTMENT OF HIGHWAYS  
 COUNTY OF \_\_\_\_\_

PROJECT NUMBER: \_\_\_\_\_