



**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.transportation.ky.gov/

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

December 10, 2012

CALL NO. 109  
CONTRACT ID NO. 121381  
ADDENDUM # 1

Subject: Clark County, NH 0061 (054)  
Letting December 14, 2012

- (1) Revised - Plan Sheets - R2C & R63
- (2) Revised - Bid Items - Pages 97-101 of 101

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

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

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

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith  
Director  
Division of Construction Procurement

RG:ks  
Enclosures



An Equal Opportunity Employer M/F/D

# GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
CLARK	7-8101.01	R2c

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

ITEM	DESCRIPTION	UNIT	PROJECT TOTALS	
78	CRUSHED AGGREGATE SIZE NO 2 ⑥ ⑩	TON	11,867	
1310	REMOVE PIPE	LIN FT	192	
1585	REMOVE DROP BOX INLET	EACH	1	
1845	ISLAND INTEGRAL CURB	LIN FT	24	
1982	GUARDRAIL DELINEATORS - MONO-DIRECTIONAL WHITE	EACH	28	
1983	GUARDRAIL DELINEATORS - MONO-DIRECTIONAL YELLOW	EACH	22	
1987	GUARDRAIL DELINEATORS - BI-DIRECTIONAL WHITE	EACH	8	
2014	BARRICADE - TYPE III	EA	7	
2058	REMOVE PCC PAVEMENT	SO YD	64	
23250ED	REMOVE GRAVEL ENTRANCE	SO YD	305	
2091	REMOVE PAVEMENT	SO YD	760	
2159	TEMPORARY DITCHES ③	LIN FT	16,250	
2230	EMBANKMENT IN PLACE ⑫	CU YD	230,431	
2242	WATER ②	M GAL	504	
2262	R/W FENCE - WOVEN WIRE TYPE 1	LIN FT	10,483	
2265	REMOVE FENCE	LIN FT	1,078	
2351	GUARDRAIL - STEEL W BEAM - S FACE	LIN FT	4,962.5	
2363	GUARDRAIL CONNECTOR TO BRIDGE END TYPE A	EACH	4	
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH	6	
2381	REMOVE GUARDRAIL ⑦	LIN FT	2,014	
24096EC	REMOVE AND RESET END TREATMENT	EACH	1	
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH	6	
2429	RIGHT-OF-WAY MONUMENT, TYPE 1	EACH	19	
2430	RIGHT-OF-WAY MONUMENT, TYPE 1A	EACH	2	
2432	WITNESS POST	EACH	6	
2482	CHANNEL LINING CLASS IA	TON	3,075	
2483	CHANNEL LINING CLASS II	TON	5,351	
2484	CHANNEL LINING CLASS III	TON	1,793	
2545	CLEARING AND GRUBBING ①	LP SUM	1	
2562	SIGNS (TEMPORARY FOR MAINTENANCE OF TRAFFIC)	SO FT	1,464	
2568	MOBILIZATION	LP SUM	1	
2569	DEMOBILIZATION	LP SUM	1	
2599	FABRIC GEOTEXTILE TYPE IV ⑥	SO YD	18,350	
2600	FABRIC GEOTEXTILE TYPE IV FOR PIPE	SO YD	6,600	
2625	REMOVING HEADWALL	EACH	8	
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM	1	
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2	
2690	SAFELOADING	CU YD	5.5	
2696	SHOULDER RUMBLE STRIPS - SAWED	LIN FT	18,206	
2701	TEMPORARY SILT FENCE ③	LIN FT	16,250	
2703	SILT TRAP TYPE A ③	EACH	112	
2704	SILT TRAP TYPE B ③	EACH	66	
2705	SILT TRAP TYPE C ③	EACH	99	
2706	CLEAN SILT TRAP TYPE A ③	EACH	336	
2707	CLEAN SILT TRAP TYPE B ③	EACH	198	
2708	CLEAN SILT TRAP TYPE C ③	EACH	297	
2709	CLEAN TEMPORARY SILT FENCE ③	LIN FT	16,250	
2726	STAKING	LP SUM	1	
2731	REMOVE STRUCTURE - 5 SPAN CONCRETE CONTINUOUS TEE BEAM BRIDGE ⑧	LP SUM	1	
2775	ARROW PANEL	EACH	2	
24035EC	CONC MED BAR END FOR CRASH CUSHION TY IX	EACH	2	
2929	CRASH CUSHION TYPE IX	EACH	2	
5950	EROSION CONTROL BLANKET ③④	SO YD	14,223	
5952	TEMPORARY MULCH ③	SO YD	270,362	
5953	TEMP SEEDING AND PROTECTION ③	SO YD	9,573	

ITEM	DESCRIPTION	UNIT	PROJECT TOTALS	
5966	TOPDRESSING FERTILIZER ③	TON	1	
5985	SEEDING AND PROTECTION ③	SO YD	113,304	
5989	SPECIAL SEEDING CROWN VETCH ③	SO YD	26,191	
6510	PAVE STRIPING - TEMP. PAINT - 4 INCH	LIN FT	12,180	
6530	PAVE STRIPING REMOVAL - 4 INCH	LIN FT	12,180	
20430ED	SAW CUT ⑤	LIN FT	4,774	
10020NS	FUEL ADJUSTMENT	DOLLAR	88,915	
10030NS	ASPHALT ADJUSTMENT	DOLLAR	81,589	
20738NSH2	TEMP CRASH CUSHION ⑨	EACH	2	
3171	CONCRETE BARRIER WALL TYPE 9T ⑨	LIN FT	1,000	
3262	CLEAN PIPE STRUCTURE	EACH	12	
20742NC	CATTLE GUARD	EACH	1	
2596	FABRIC-GEOTEXTILE TYPE I ⑪	SO YD	525	
23649EC	DRAIN POND	LS	1	
20368EST24	RIPARIAN ZONE SEEDING ⑬	LS	1	
20209EP69	GRANULAR PILE CORE	CU YD	689	
23131ER70I	PIPELINE VIDEO INSPECTION	LIN FT	525	
2223	GRANULAR EMBANKMENT	CU YD	11,191	
6514	4 INCH WHITE, PAVE STRIPING - PERM PAINT	LIN FT	9,879	
6514	4 INCH YELLOW, PAVE STRIPING - PERM PAINT	LIN FT	10,956	
6515	6 INCH WHITE, PAVE STRIPING - PERM PAINT	LIN FT	19,777	
6515	6 INCH YELLOW, PAVE STRIPING - PERM PAINT	LIN FT	13,983	
6546	12 INCH WHITE PAVEMENT MARKING CHEVRON - THERMO	SO FT	1,515	
6547	12 INCH YELLOW PAVEMENT MARKING CHEVRON - THERMO	SO FT	1,504	
6568	24 INCH WHITE, THERMO STOP BAR	LIN FT	285	
23791EC	PAVE STRIPING - CHEVRON MARKING	SO FT	1,043	
6574	PAVEMENT MARKING THERMO CURVE ARROW	EA	7	
6575	PAVEMENT MARKING THERMO COMBINATION ARROW	EA	3	
6592	PAVEMENT MARKER TYPE V-B W/R	EA	134	
6593	PAVEMENT MARKER TYPE V-B Y/R	EA	127	

**NOTES:**

- ① APPROXIMATELY 55.86 ACRES.
- ② FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY.
- ③ EROSION CONTROL QUANTITIES ARE BASED ON THE PROBABLE AMOUNT OF EROSION CONTROL FEATURES AS ESTIMATED BY THE DESIGNER.
- ④ INCLUDES 2674 S.Y. EROSION CONTROL BLANKET FOR RAMP GORES AND BRIDGE ABUTMENTS.
- ⑤ FOR RAMP TIE INS TO MOUNTAIN PARKWAY.

EARTHWORK (C.Y.)

UNDERCUT	4,527
EMB BENCH	18,765
ROCK REFILL	2,489
ROCK	12,475
COM	69,028
EMB	197,325
GRAN. EMB	11,191
SURF. DT. LT.	1,715
SURF. DT. RT.	6,949
PIPE DT. EXCAV.	1,314
TRANS. BENCH	7,325

NOTE:

THE EARTHWORK SHOWN ABOVE IS FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY.

⑥ QUANTITIES ASSOCIATED WITH GEOTECHNICAL RECOMMENDATIONS #9 AND #23 FROM THE GEOTECHNICAL ENGINEERING ROADWAY REPORT. KENTUCKY COARSE AGGREGATE 2'S, 3'S OR 23'S MAY BE USED IN ACCORDANCE WITH THE CURRENT EDITION OF SECTION 805 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

- ⑦ CONTRACTOR SHALL BE RESPONSIBLE FOR THE DELIVERY OF REMOVED GUARDRAIL TO THE CLARK COUNTY MAINTENANCE FACILITY.
- ⑧ EXISTING BRIDGE AT APPROXIMATE RT. STA.174+75.62 KY 974.
- ⑨ FOR MAINTENANCE OF TRAFFIC DURING BRIDGE CONSTRUCTION.
- ⑩ INCLUDES 17 TONS FOR PERFORATED PIPE HEADWALLS.
- ⑪ QUANTITIES ASSOCIATED WITH GEOTECHNICAL RECOMMENDATION #25.
- ⑫ ITEMS INCLUDED IN TOTAL ARE EMB, EMB BENCH, TRANS. BENCH, ROCK REFILL, AND UNDERCUT. THE UNDERCUT IS ONLY AN ESTIMATION AND TO BE USED AT THE ENGINEER'S DISCRETION.
- ⑬ FOR SEED TYPES, SEE SPECIAL NOTE FOR GRAY BAT MINIMIZATION MEASURES IN THE PROPOSAL.

FOR PERMANENT SIGNING QUANTITIES, SEE SHEET T1.

USER: \$\$\$USER\$\$\$  
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 FILE NAME: \$\$\$designs\$files\$specifications\$\$\$  
 E-SHEET NAME: \_\_\_\_\_

# GENERAL SUMMARY

△ REVISED 12-06-12

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- ⑧ EXISTING BRIDGE AT APPROXIMATE RT. STA.174+75.62 KY 974.
- ⑨ FOR MAINTENANCE OF TRAFFIC DURING BRIDGE CONSTRUCTION.
- ⑩ INCLUDES 17 TONS FOR PERFORATED PIPE HEADWALLS.
- ⑪ QUANTITIES ASSOCIATED WITH GEOTECHNICAL RECOMMENDATION #25.
- ⑫ ITEMS INCLUDED IN TOTAL ARE EMB, EMB BENCH, TRANS. BENCH, ROCK REFILL, AND UNDERCUT. THE UNDERCUT IS ONLY AN ESTIMATION AND TO BE USED AT THE ENGINEER'S DISCRETION.
- ⑬ FOR SEED TYPES, SEE SPECIAL NOTE FOR GRAY BAT MINIMIZATION MEASURES IN THE PROPOSAL.

FOR PERMANENT SIGNING QUANTITIES, SEE SHEET T1.

USER: \$\$\$USER\$\$\$  
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 E-SHEET NAME:



# GEOTECHNICAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
CLARK	7-8101.01	R63

**REVIS**ED 12-06-12

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

1) In accordance with Section 206 of the current Standard Specifications, the moisture content of embankment material shall not vary from the optimum moisture content as determined by KM 64-511 by more than +2 percent or less than -2 percent. This moisture content requirement shall have equal weight with the density requirement when determining the acceptability of embankment construction. Refer to the Family of Curves for moisture/density correlation.

2) All soils, whether from roadway or borrow, may require manipulation to obtain proper moisture content prior to compaction. Direct payment shall not be permitted for rehandling, hauling, stockpiling, and/or manipulating soils.

3) Excavation of surface ditches and channel changes adjacent to embankment areas shall be performed prior to the placement of the adjacent embankments. The material excavated for the channel changes and surface ditches is suitable for embankment construction if dried to proper moisture content in accordance with Section 206 of the current Standard Specifications.

4) The contractor is responsible for conducting any operations necessary to excavate the cut areas to the required typical section. These operations shall be incidental to the unit bid price for roadway excavation or embankment-in-place.

5) Foundation embankment benches shall be placed in accordance with Standard Drawing RGX-010 at the locations listed below and/or as directed by the Engineer.

**Mainline**

From Station 172+25 to Station 173+00  
 From Station 176+25 to Station 177+75

**Ramp B**

From Station 201+25 to Station 204+25  
 From Station 213+25 to Station 215+25  
 From Station 219+25 to Station 226+75

**Ramp C**

From Station 303+75 to Station 305+25

**Ramp D**

From Station 404+25 to Station 406+75  
 From Station 416+75 to Station 424+25

6) Perforated pipe for subgrade drainage shall be placed in vertical sags in accordance with RDP-005 at the following approximate locations and/or where designated by the Engineer.

**Ramp B**

Station 213+00

7) Transverse benching and/or perforated pipe underdrains shall be installed at the following approximate locations and any others designated by the Engineer. Contrary to Standard Drawing RDP-006, transverse benches and perforated pipe underdrains shall be placed on both the upgrade and downgrade cut to fill transitions.

**Mainline**

Station 149+50  
 Station 152+50  
 Station 156+80  
 Station 160+40  
 Station 167+00  
 Station 179+50

**Ramp B**

Station 201+75  
 Station 210+50

**Ramp C**

Station 303+50  
 Station 312+80

**Ramp A**

Station 108+00  
 Station 113+30

**Ramp D**

Station 400+00  
 Station 408+45  
 Station 411+30

8) The contractor shall conduct grading operations in such a manner that soil (free of rock larger than 4 inches and shale) from roadway excavation be stockpiled separately or otherwise manipulated so that ample quantities are available for a chemically stabilized roadbed meeting the specifications in Section 208 of the current Standard Specifications for Road and Bridge Construction. No direct payment will be allowed for such necessary manipulating as stockpiling, hauling and/or handling the material.

9) In areas where the chemical modification is not feasible (such as crossovers, tie-ins, etc.) a one foot granular subgrade will be required consisting of Kentucky Coarse Aggregate #2's, #3's or #23's in accordance with the current edition of Section 805 of the Standard Specifications for Road and Bridge Construction, and the material shall be classified as non-erodible. The aggregate shall be wrapped with Geotextile Fabric, Type IV in accordance with Section 214 & 843 of the Standard Specifications. The actual locations will be determined by the Engineer during construction. For purpose of calculating quantities, assume 1,000 linear feet of roadway for this treatment.

10) Any saturated, unstable material encountered in existing creek beds and/or drainage swales within embankment foundation limits shall be drained and stabilized with 2 ft of Kentucky Coarse Aggregate #2's, #3's, or #23's in accordance with the current edition of Section 805 of the Standard Specifications for Road and Bridge Construction. Positive drainage shall be maintained to prevent trapping water within the roadway embankment. This material shall be wrapped with Geotextile Fabric, Type IV, in accordance with Section 214 and 843 of the Standard Specifications for Road and Bridge Construction, current edition. The actual locations will be determined by the Engineer.

11) Borrow material, if required for subgrade, shall meet the minimum CBR value of 2.0

12) Where shale bedrock is encountered at the roadbed grade the roadbed shall be undercut 1 foot below the required grade and the limits of the roadbed shall extend the roadway excavation to the ditch lines, as specified in Section 204 of the current Standard Specifications for Road and Bridge Construction, in areas where shale is considered common excavation at the roadway grade, as directed by the Engineer. The refill shall be constructed with soil for chemical stabilization as specified in Section 208 of the Standard Specifications for Road and Bridge Construction, current edition. The excavation and replacement of this material is incidental to the unit bid price for roadway excavation or embankment-in-place.

13) Shale (above or below the RDZ, durable or nondurable) cannot be used in the subgrade.

14) Pile cores shall be constructed in accordance with Kentucky Standard Drawing RGX-100 and RGX-105, meeting the material requirements of the current edition of Special Provision 69. A granular pile core is anticipated and quantities shall be calculated for such. The final design shall meet the approval of the Engineer.

15) The New Albany Shale shall be encased in the embankments with a minimum of 2.5 ft (measured perpendicular to the fill slope) of non-durable gray shale and/or soil. A minimum of 4 ft cover (from finish grade) of soil shall be placed on top of the embankment (Shale cannot be used in the top 4 feet of the embankment). The embankment encasement shall be constructed in a maximum of 8-inch lifts. A minimum 0.5 ft of topsoil should be spread loosely and/or loosely compacted on the outside of these slopes for vegetation. Adequately vegetate these slopes immediately after completion to prevent erosion.

16) Embankments constructed with New Albany Shale will require controlled drainage to contain any potential acid runoff, as directed by the Engineer. This acidic mitigation will be required until the embankment encasement is completed. If the embankment encasement is simultaneously constructed with the embankment the additional mitigation will not be required.

17) Temporary mitigation procedures for neutralizing the runoff from areas containing New Albany Shale is required during construction. Possible procedures are to direct the runoff from the cuts and embankment containing exposed New Albany Shale along or through piles of crushed limestone and/or trench drains backfilled with agricultural crushed limestone. The trench drains may be utilized as temporary and/or permanent runoff treatment elements. Appropriate erosion control measures (such as silt checks, silt fences, hay bales, etc.) must be utilized to capture soil fines that would quickly clog these crushed stone filters.

18) The cut slopes in the New Albany Shale shall be over-excavated a minimum of 4 feet and shall be serrated. A minimum of 4 ft (measured perpendicular to the slope) of soil and/or non-durable gray shale shall be compacted horizontally on the serrated cut slopes. Compact this material in maximum 8-inch (loose thickness) lifts. A minimum 0.5-ft of topsoil should be spread loosely and/or loosely compacted on the outside of these slopes for vegetation. Adequately vegetate these slopes immediately after completion to prevent erosion. This procedure will apply as shown in the cut stability sheets for the following locations and any others as recommended by the Engineer. If the New Albany Shale is not disturbed mitigation is not required.

19) Interceptor ditches with berms shall be installed above all cut slopes in the New Albany Shale and along the toe of any embankments containing the New Albany Shale that would receive significant runoff from adjacent areas. This will minimize the volume of runoff requiring treatment and reduce any erosion of cut faces or soil treatment material.

20) Any stockpiling of the New Albany Shale will require controlled drainage, as directed by the Engineer.

21) The contractor shall follow the applicable regulations regarding the deposit of acidic materials for any New Albany Shale.

22) The New Albany Shale cannot be left exposed to weather during any seasonal shutdowns.

23) The marsh at Ramp B Station 203+20 shall be drained and undercut a minimum of 3 feet. Use of this excavated material shall be limited to final dressing of roadway slopes, as directed by the Engineer. The marsh shall be stabilized with Kentucky Coarse Aggregate 2's, 3's or 23's, in accordance with the current edition of Section 805 of the Standard Specifications for Road and Bridge Construction. The required thickness of this treatment is estimated to be 3 feet, but the actual thickness shall be determined by the Engineer. This material shall be wrapped with Geotextile Type IV, in accordance with Section 214 & 843 of the Standard Specifications for Road and Bridge Construction, current edition.

24) Appropriate treatment, as outlined in the Standard Specifications, shall apply to all cisterns, septic tanks, and associated lateral lines within the construction limits.

25) Protect the slopes adjacent to drainage ditches along the Mountain Parkway (Eastbound) to the 100-year high-water elevation with Cyclopean Stone Riprap meeting the requirements of Section 703 & 805 of the Standard Specifications for Road and Bridge Construction, current edition. The limits, size and thickness of the stone shall be designed for applicable flood flow velocities. Place a Type I Geotextile Fabric (Section 214 & 843 of the Standard Specifications) between the embankment and the slope protection as part of the scour abatement.

USER: \$\$\$USER\$\$\$  
 DATE: \$\$\$DATE\$\$\$  
 FILE NAME: \$\$\$designsfiles\$specifications\$\$\$  
 E-SHEET NAME: \_\_\_\_\_

**Commonwealth of Kentucky**  
**DEPARTMENT OF HIGHWAYS**  
 COUNTY OF  
**CLARK**

PROJECT: FD52 025 9000 010-011  
 NUMBERS: NH 0061 (054)

# GEOTECHNICAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
CLARK	7-8101.01	R63

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

1) In accordance with Section 206 of the current Standard Specifications, the moisture content of embankment material shall not vary from the optimum moisture content as determined by KM 64-511 by more than +2 percent or less than -2 percent. This moisture content requirement shall have equal weight with the density requirement when determining the acceptability of embankment construction. Refer to the Family of Curves for moisture/density correlation.

2) All soils, whether from roadway or borrow, may require manipulation to obtain proper moisture content prior to compaction. Direct payment shall not be permitted for rehandling, hauling, stockpiling, and/or manipulating soils.

3) Excavation of surface ditches and channel changes adjacent to embankment areas shall be performed prior to the placement of the adjacent embankments. The material excavated for the channel changes and surface ditches is suitable for embankment construction if dried to proper moisture content in accordance with Section 206 of the current Standard Specifications.

4) The contractor is responsible for conducting any operations necessary to excavate the cut areas to the required typical section. These operations shall be incidental to the unit bid price for roadway excavation or embankment-in-place.

5) Foundation embankment benches shall be placed in accordance with Standard Drawing RGX-010 at the locations listed below and/or as directed by the Engineer.

**Mainline**

From Station 172+25 to Station 173+00  
 From Station 176+25 to Station 177+75

**Ramp B**

From Station 201+25 to Station 204+25  
 From Station 213+25 to Station 215+25  
 From Station 219+25 to Station 226+75

**Ramp C**

From Station 303+75 to Station 305+25

**Ramp D**

From Station 404+25 to Station 406+75  
 From Station 416+75 to Station 424+25

6) Perforated pipe for subgrade drainage shall be placed in vertical sags in accordance with RDP-005 at the following approximate locations and/or where designated by the Engineer.

**Ramp B**

Station 213+00

7) Transverse benching and/or perforated pipe underdrains shall be installed at the following approximate locations and any others designated by the Engineer. Contrary to Standard Drawing RDP-006, transverse benches and perforated pipe underdrains shall be placed on both the upgrade and downgrade cut to fill transitions.

**Mainline**

Station 149+50  
 Station 152+50  
 Station 156+80  
 Station 160+40  
 Station 167+00  
 Station 179+50

**Ramp B**

Station 201+75  
 Station 210+50

**Ramp C**

Station 303+50  
 Station 312+80

**Ramp A**

Station 108+00  
 Station 113+30

**Ramp D**

Station 400+00  
 Station 408+45  
 Station 411+30

8) The contractor shall conduct grading operations in such a manner that soil (free of rock larger than 4 inches and shale) from roadway excavation be stockpiled separately or otherwise manipulated so that ample quantities are available for a chemically stabilized roadbed meeting the specifications in Section 208 of the current Standard Specifications for Road and Bridge Construction. No direct payment will be allowed for such necessary manipulating as stockpiling, hauling and/or handling the material.

9) In areas where the chemical modification is not feasible (such as crossovers, tie-ins, etc.) a one foot granular subgrade will be required consisting of Kentucky Coarse Aggregate #2's, #3's or #23's in accordance with the current edition of Section 805 of the Standard Specifications for Road and Bridge Construction, and the material shall be classified as non-erodible. The aggregate shall be wrapped with Geotextile Fabric, Type IV in accordance with Section 214 & 843 of the Standard Specifications. The actual locations will be determined by the Engineer during construction. For purpose of calculating quantities, assume 1,000 linear feet of roadway for this treatment.

10) Any saturated, unstable material encountered in existing creek beds and/or drainage swales within embankment foundation limits shall be drained and stabilized with 2 ft of Kentucky Coarse Aggregate #2's, #3's, or #23's in accordance with the current edition of Section 805 of the Standard Specifications for Road and Bridge Construction. Positive drainage shall be maintained to prevent trapping water within the roadway embankment. This material shall be wrapped with Geotextile Fabric Type IV, in accordance with Section 214 and 843 of the Standard Specifications for Road and Bridge Construction, current edition. The actual locations will be determined by the Engineer.

11) Borrow material, if required for subgrade, shall meet the minimum CBR value of 2.0

12) Where shale bedrock is encountered at the roadbed grade the roadbed shall be undercut 1 foot below the required grade and the limits of the roadbed shall extend the roadway excavation to the ditch lines, as specified in Section 204 of the current Standard Specifications for Road and Bridge Construction, in areas where shale is considered common excavation at the roadway grade, as directed by the Engineer. The refill shall be constructed with soil for chemical stabilization as specified in Section 208 of the Standard Specifications for Road and Bridge Construction, current edition. The excavation and replacement of this material is incidental to the unit bid price for roadway excavation or embankment-in-place.

13) Shale (above or below the RDZ, durable or nondurable) cannot be used in the subgrade.

14) Pile cores shall be constructed in accordance with Kentucky Standard Drawing RGX-100 and RGX-105, meeting the material requirements of the current edition of Special Provision 69. A granular pile core is anticipated and quantities shall be calculated for such. The final design shall meet the approval of the Engineer.

15) The New Albany Shale shall be encased in the embankments with a minimum of 2.5 ft (measured perpendicular to the fill slope) of non-durable gray shale and/or soil. A minimum of 4 ft cover (from finish grade) of soil shall be placed on top of the embankment (Shale cannot be used in the top 4 feet of the embankment). The embankment encasement shall be constructed in a maximum of 8-inch lifts. A minimum 0.5 ft of topsoil should be spread loosely and/or loosely compacted on the outside of these slopes for vegetation. Adequately vegetate these slopes immediately after completion to prevent erosion.

16) Embankments constructed with New Albany Shale will require controlled drainage to contain any potential acid runoff, as directed by the Engineer. This acidic mitigation will be required until the embankment encasement is completed. If the embankment encasement is simultaneously constructed with the embankment the additional mitigation will not be required.

17) Temporary mitigation procedures for neutralizing the runoff from areas containing New Albany Shale is required during construction. Possible procedures are to direct the runoff from the cuts and embankment containing exposed New Albany Shale along or through piles of crushed limestone and/or trench drains backfilled with agricultural crushed limestone. The trench drains may be utilized as temporary and/or permanent runoff treatment elements. Appropriate erosion control measures (such as silt checks, silt fences, hay bales, etc.) must be utilized to capture soil fines that would quickly clog these crushed stone filters.

18) The cut slopes in the New Albany Shale shall be over-excavated a minimum of 4 feet and shall be serrated. A minimum of 4 ft (measured perpendicular to the slope) of soil and/or non-durable gray shale shall be compacted horizontally on the serrated cut slopes. Compact this material in maximum 8-inch (loose thickness) lifts. A minimum 0.5-ft of topsoil should be spread loosely and/or loosely compacted on the outside of these slopes for vegetation. Adequately vegetate these slopes immediately after completion to prevent erosion. This procedure will apply as shown in the cut stability sheets for the following locations and any others as recommended by the Engineer. If the New Albany Shale is not disturbed mitigation is not required.

19) Interceptor ditches with berms shall be installed above all cut slopes in the New Albany Shale and along the toe of any embankments containing the New Albany Shale that would receive significant runoff from adjacent areas. This will minimize the volume of runoff requiring treatment and reduce any erosion of cut faces or soil treatment material.

20) Any stockpiling of the New Albany Shale will require controlled drainage, as directed by the Engineer.

21) The contractor shall follow the applicable regulations regarding the deposit of acidic materials for any New Albany Shale.

22) The New Albany Shale cannot be left exposed to weather during any seasonal shutdowns.

23) The marsh at Ramp B Station 203+20 shall be drained and undercut a minimum of 3 feet. Use of this excavated material shall be limited to final dressing of roadway slopes, as directed by the Engineer. The marsh shall be stabilized with Kentucky Coarse Aggregate 2's, 3's or 23's, in accordance with the current edition of Section 805 of the Standard Specifications for Road and Bridge Construction. The required thickness of this treatment is estimated to be 3 feet, but the actual thickness shall be determined by the Engineer. This material shall be wrapped with Geotextile Type IV, in accordance with Section 214 & 843 of the Standard Specifications for Road and Bridge Construction, current edition.

24) Appropriate treatment, as outlined in the Standard Specifications, shall apply to all cisterns, septic tanks, and associated lateral lines within the construction limits.

25) Protect the slopes adjacent to drainage ditches along the Mountain Parkway (Eastbound) to the 100-year high-water elevation with Cyclopean Stone Riprap meeting the requirements of Section 703 & 805 of the Standard Specifications for Road and Bridge Construction, current edition. The limits, size and thickness of the stone shall be designed for applicable flood flow velocities. Place a Type I Geotextile Fabric (Section 214 & 843 of the Standard Specifications) between the embankment and the slope protection as part of the scour abatement.

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**Commonwealth of Kentucky**  
**DEPARTMENT OF HIGHWAYS**  
 COUNTY OF  
**CLARK**

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PROJECT: FD52 025 9000 010-011  
 NUMBERS: NH 0061 (054)



**PROPOSAL BID ITEMS**

Report Date 12/10/12

**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0010	00001		DGA BASE	19,259.00	TON		\$	
0020	00013		LIME STABILIZED ROADBED	52,114.00	SQYD		\$	
0030	00014		LIME	949.00	TON		\$	
0040	00020		TRAFFIC BOUND BASE	4,000.00	TON		\$	
0050	00100		ASPHALT SEAL AGGREGATE	137.00	TON		\$	
0060	00103		ASPHALT SEAL COAT	17.00	TON		\$	
0070	00221		CL2 ASPH BASE 0.75D PG64-22	15,101.00	TON		\$	
0080	00301		CL2 ASPH SURF 0.38D PG64-22	5,768.00	TON		\$	
0090	00358		ASPHALT CURING SEAL	108.00	TON		\$	
0100	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0110	02677		ASPHALT PAVE MILLING & TEXTURING	2,168.00	TON		\$	
0120	02702		SAND FOR BLOTTER	132.00	TON		\$	

**Section: 0002 - ROADWAY**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0130	00078		CRUSHED AGGREGATE SIZE NO 2	11,867.00	TON		\$	
0140	01310		REMOVE PIPE	192.00	LF		\$	
0150	01585		REMOVE DROP BOX INLET	1.00	EACH		\$	
0160	01845		ISLAND INTEGRAL CURB	24.00	LF		\$	
0170	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	28.00	EACH		\$	
0180	01983		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	22.00	EACH		\$	
0190	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	8.00	EACH		\$	
0200	02014		BARRICADE-TYPE III	7.00	EACH		\$	
0210	02058		REMOVE PCC PAVEMENT	64.00	SQYD		\$	
0220	02091		REMOVE PAVEMENT	760.00	SQYD		\$	
0230	02159		TEMP DITCH	16,250.00	LF		\$	
0240	02223		GRANULAR EMBANKMENT(ADDED: 12-10-12)	11,191.00	CUYD		\$	
0250	02230		EMBANKMENT IN PLACE(REVISED: 12-10-12)	230,431.00	CUYD		\$	
0260	02242		WATER	504.00	MGAL		\$	
0270	02262		FENCE-WOVEN WIRE TYPE 1	10,483.00	LF		\$	
0280	02265		REMOVE FENCE	1,078.00	LF		\$	
0290	02351		GUARDRAIL-STEEL W BEAM-S FACE	4,962.50	LF		\$	
0300	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		\$	
0310	02369		GUARDRAIL END TREATMENT TYPE 2A	6.00	EACH		\$	
0320	02381		REMOVE GUARDRAIL	2,014.00	LF		\$	
0330	02391		GUARDRAIL END TREATMENT TYPE 4A	6.00	EACH		\$	
0340	02429		RIGHT-OF-WAY MONUMENT TYPE 1	19.00	EACH		\$	
0350	02430		RIGHT-OF-WAY MONUMENT TYPE 1A	2.00	EACH		\$	
0360	02432		WITNESS POST	6.00	EACH		\$	
0370	02482		CHANNEL LINING CLASS IA	3,075.00	TON		\$	
0380	02483		CHANNEL LINING CLASS II	5,351.00	TON		\$	

**PROPOSAL BID ITEMS**

Report Date 12/10/12

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0390	02484		CHANNEL LINING CLASS III	1,793.00	TON		\$	
0400	02545		CLEARING AND GRUBBING(55.86 ACRES)	1.00	LS		\$	
0410	02562		SIGNS	1,464.00	SQFT		\$	
0420	02596		FABRIC-GEOTEXTILE TYPE I	525.00	SQYD		\$	
0430	02599		FABRIC-GEOTEXTILE TYPE IV	18,350.00	SQYD		\$	
0440	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	6,600.00	SQYD	\$2.00	\$	\$13,200.00
0450	02625		REMOVE HEADWALL	8.00	EACH		\$	
0460	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0470	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0480	02690		SAFELoading	5.50	CUYD		\$	
0490	02696		SHOULDER RUMBLE STRIPS-SAWED	18,206.00	LF		\$	
0500	02701		TEMP SILT FENCE	16,250.00	LF		\$	
0510	02703		SILT TRAP TYPE A	112.00	EACH		\$	
0520	02704		SILT TRAP TYPE B	66.00	EACH		\$	
0530	02705		SILT TRAP TYPE C	99.00	EACH		\$	
0540	02706		CLEAN SILT TRAP TYPE A	336.00	EACH		\$	
0550	02707		CLEAN SILT TRAP TYPE B	198.00	EACH		\$	
0560	02708		CLEAN SILT TRAP TYPE C	297.00	EACH		\$	
0570	02709		CLEAN TEMP SILT FENCE	16,250.00	LF		\$	
0580	02726		STAKING	1.00	LS		\$	
0590	02731		REMOVE STRUCTURE	1.00	LS		\$	
0600	02775		ARROW PANEL	2.00	EACH		\$	
0610	02929		CRASH CUSHION TYPE IX	2.00	EACH		\$	
0620	03171		CONCRETE BARRIER WALL TYPE 9T	1,000.00	LF		\$	
0630	03262		CLEAN PIPE STRUCTURE	12.00	EACH		\$	
0640	05950		EROSION CONTROL BLANKET	14,223.00	SQYD		\$	
0650	05952		TEMP MULCH	270,362.00	SQYD		\$	
0660	05953		TEMP SEEDING AND PROTECTION	9,573.00	SQYD		\$	
0670	05966		TOPDRESSING FERTILIZER	1.00	TON		\$	
0680	05985		SEEDING AND PROTECTION	113,304.00	SQYD		\$	
0690	05989		SPECIAL SEEDING CROWN VETCH	26,191.00	SQYD		\$	
0700	06510		PAVE STRIPING-TEMP PAINT-4 IN	12,180.00	LF		\$	
0710	06514		PAVE STRIPING-PERM PAINT-4 IN(YELLOW)	10,956.00	LF		\$	
0720	06514		PAVE STRIPING-PERM PAINT-4 IN(WHITE)	9,879.00	LF		\$	
0730	06515		PAVE STRIPING-PERM PAINT-6 IN(YELLOW)	13,983.00	LF		\$	
0740	06515		PAVE STRIPING-PERM PAINT-6 IN(WHITE)	19,777.00	LF		\$	
0750	06530		PAVE STRIPING REMOVAL-4 IN	12,180.00	LF		\$	
0760	06546		PAVE STRIPING-THERMO-12 IN W	1,515.00	LF		\$	
0770	06547		PAVE STRIPING-THERMO-12 IN Y	1,504.00	LF		\$	
0780	06568		PAVE MARKING-THERMO STOP BAR-24IN	285.00	LF		\$	
0790	06574		PAVE MARKING-THERMO CURV ARROW	7.00	EACH		\$	
0800	06575		PAVE MARKING-THERMO COMB ARROW	3.00	EACH		\$	
0810	06592		PAVEMENT MARKER TYPE V-B W/R	134.00	EACH		\$	
0820	06593		PAVEMENT MARKER TYPE V-B Y/R	127.00	EACH		\$	
0830	10020NS		FUEL ADJUSTMENT	88,915.00	DOLL	\$1.00	\$	\$88,915.00
0840	10030NS		ASPHALT ADJUSTMENT	81,589.00	DOLL	\$1.00	\$	\$81,589.00
0850	20209EP69		GRANULAR PILE CORE	689.00	CUYD		\$	
0860	20368ES724		RIPARIAN ZONE SEEDING(ADDED: 12-10-12)	1.00	LS		\$	
0870	20430ED		SAW CUT	4,774.00	LF		\$	
0880	20738NS112		TEMP CRASH CUSHION	2.00	EACH		\$	

**PROPOSAL BID ITEMS**

Report Date 12/10/12

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0890	20742NC		CATTLE GUARD	1.00	EACH		\$	
0900	23131ER701		PIPELINE VIDEO INSPECTION	525.00	LF		\$	
0910	23250ED		REMOVE GRAVEL ENTRANCE	305.00	SQYD		\$	
0920	23649EC		DRAIN POND	1.00	LS		\$	
0930	23791EC		PAVE STRIPING-CHEVRON MARKINGS	1,043.00	SQFT		\$	
0940	24035EC		CONC MED BAR END FOR CRASH CUSHION TY IX	2.00	EACH		\$	
0950	24096EC		REMOVE AND RESET END TREATMENT	1.00	EACH		\$	

**Section: 0003 - DRAINAGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0960	00440		ENTRANCE PIPE-15 IN	129.00	LF		\$	
0970	00441		ENTRANCE PIPE-18 IN	88.00	LF		\$	
0980	00461		CULVERT PIPE-15 IN	53.00	LF		\$	
0990	00462		CULVERT PIPE-18 IN	180.00	LF		\$	
1000	00466		CULVERT PIPE-30 IN	85.00	LF		\$	
1010	00468		CULVERT PIPE-36 IN	204.00	LF		\$	
1020	00469		CULVERT PIPE-42 IN	139.00	LF		\$	
1030	00470		CULVERT PIPE-48 IN	106.00	LF		\$	
1040	00471		CULVERT PIPE-54 IN	178.00	LF		\$	
1050	00473		CULVERT PIPE-66 IN	63.00	LF		\$	
1060	00476		CULVERT PIPE-84 IN	16.00	LF		\$	
1070	00522		STORM SEWER PIPE-18 IN	132.00	LF		\$	
1080	00524		STORM SEWER PIPE-24 IN	41.00	LF		\$	
1090	01450		S & F BOX INLET-OUTLET-18 IN	4.00	EACH		\$	
1100	01451		S & F BOX INLET-OUTLET-24 IN	1.00	EACH		\$	
1110	01453		S & F BOX INLET-OUTLET-36 IN	4.00	EACH		\$	
1120	01480		CURB BOX INLET TYPE B	2.00	EACH		\$	
1130	01505		DROP BOX INLET TYPE 5B	1.00	EACH		\$	
1140	01538		DROP BOX INLET TYPE 7	1.00	EACH		\$	
1150	01642		JUNCTION BOX-18 IN	1.00	EACH		\$	
1160	01653		JUNCTION BOX-SPECIAL	2.00	EACH		\$	
1170	01761		MANHOLE TYPE B	1.00	EACH		\$	
1180	08100		CONCRETE-CLASS A	84.12	CUYD		\$	
1190	08150		STEEL REINFORCEMENT	6,632.50	LB		\$	



**PROPOSAL BID ITEMS**

Report Date 12/10/12

**Section: 0004 - BRIDGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1200	02231		STRUCTURE GRANULAR BACKFILL	277.00	CUYD		\$	
1210	02555		CONCRETE-CLASS B	7.60	CUYD		\$	
1220	02998		MASONRY COATING	1,718.00	SQYD		\$	
1230	03299		ARMORED EDGE FOR CONCRETE	111.80	LF		\$	
1240	04797		CONDUIT-3 IN	676.00	LF		\$	
1250	04810		ELECTRICAL JUNCTION BOX	3.00	EACH		\$	
1260	08001		STRUCTURE EXCAVATION-COMMON	285.00	CUYD		\$	
1270	08002		STRUCTURE EXCAV-SOLID ROCK	250.00	CUYD		\$	
1280	08003		FOUNDATION PREPARATION(26869)	1.00	LS		\$	
1290	08003		FOUNDATION PREPARATION(26871)	1.00	LS		\$	
1300	08003		FOUNDATION PREPARATION(26870)	1.00	LS		\$	
1310	08019		CYCLOPEAN STONE RIP RAP	295.00	TON		\$	
1320	08020		CRUSHED AGGREGATE SLOPE PROT	369.00	TON		\$	
1330	08033		TEST PILES	183.00	LF		\$	
1340	08046		PILES-STEEL HP12X53	886.00	LF		\$	
1350	08094		PILE POINTS-12 IN	46.00	EACH		\$	
1360	08100		CONCRETE-CLASS A	2,196.30	CUYD		\$	
1370	08104		CONCRETE-CLASS AA	601.50	CUYD		\$	
1380	08150		STEEL REINFORCEMENT	213,216.00	LB		\$	
1390	08151		STEEL REINFORCEMENT-EPOXY COATED	147,853.00	LB		\$	
1400	08160		STRUCTURAL STEEL(26421 - 2,818 LBS)	1.00	LS		\$	
1410	08500		APPROACH SLAB	291.60	SQYD		\$	
1420	08636		PRECAST PC I BEAM TYPE 5	2,053.30	LF		\$	
1430	20392NS835		ELECTRICAL JUNCTION BOX TYPE C	4.00	EACH		\$	
1440	21532ED		RAIL SYSTEM TYPE III	594.20	LF		\$	

**Section: 0005 - SIGNING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1450	06400		GMSS GALV STEEL TYPE A	4,000.00	LB		\$	
1460	06405		SBM ALUMINUM PANEL SIGNS	977.00	SQFT		\$	
1470	06406		SBM ALUM SHEET SIGNS .080 IN	344.00	SQFT		\$	
1480	06407		SBM ALUM SHEET SIGNS .125 IN	239.00	SQFT		\$	
1490	06410		STEEL POST TYPE 1	991.00	LF		\$	
1500	06417		FLEXIBLE DELINEATOR POST-W	70.00	EACH		\$	
1510	06418		FLEXIBLE DELINEATOR POST-Y	32.00	EACH		\$	
1520	06490		CLASS A CONCRETE FOR SIGNS	18.00	CUYD		\$	
1530	06491		STEEL REINFORCEMENT FOR SIGNS	510.00	LB		\$	
1540	20419ND		ROADWAY CROSS SECTION	6.00	EACH		\$	
1550	21596ND		GMSS TYPE D	10.00	EACH		\$	

**PROPOSAL BID ITEMS**

Report Date 12/10/12

**Section: 0006 - LIGHTING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1560	04700		POLE 30 FT MTG HT	14.00	EACH		\$	
1570	04701		POLE 40 FT MTG HT	26.00	EACH		\$	
1580	04720		BRACKET 4 FT	3.00	EACH		\$	
1590	04722		BRACKET 8 FT	6.00	EACH		\$	
1600	04723		BRACKET 10 FT	8.00	EACH		\$	
1610	04725		BRACKET 15 FT	23.00	EACH		\$	
1620	04740		POLE BASE	40.00	EACH		\$	
1630	04750		TRANSFORMER BASE	40.00	EACH		\$	
1640	04760		POLE W/SECONDARY CONTROL EQUIP	1.00	EACH		\$	
1650	04770		HPS LUMINAIRE	40.00	EACH		\$	
1660	04780		FUSED CONNECTOR KIT	80.00	EACH		\$	
1670	04793		CONDUIT-1 1/4 IN	7,545.00	LF		\$	
1680	04795		CONDUIT-2 IN	505.00	LF		\$	
1690	04820		TRENCHING AND BACKFILLING	7,750.00	LF		\$	
1700	04835		WIRE-NO. 4	25,000.00	LF		\$	
1710	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	8.00	EACH		\$	
1720	21543EN		BORE AND JACK CONDUIT	450.00	LF		\$	
1730	23675EC		WIRE-NO. 12-INSTALL	6,100.00	LF		\$	

**Section: 0007 - MOBILIZATION / DEMOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1740	02568		MOBILIZATION	1.00	LS		\$	
1750	02569		DEMOBILIZATION	1.00	LS		\$	