

**COMMONWEALTH OF KENTUCKY
DEPARTMENT FOR FACILITIES AND SUPPORT SERVICES
DIVISION OF ENGINEERING AND CONTRACT ADMINISTRATION**

INVITATION TO BID NO: RFB-219-26
FOR: 24059 AMLBAML
AML Project
Boyd County, Kentucky

DATE: March 24, 2026

RFB-785-2600000438

ADDENDUM NO. One (1)

BIDDER SHALL CONFORM TO THE FOLLOWING CHANGES AS SAME SHALL BECOME BINDING UPON THE CONTRACT TO BE ISSUED IN RESPONSE TO THIS INVITATION TO BID.

- Item 1: Refer to attached addendum for all additions, deletions, and/or changes to specifications and/or drawings.
- Item 2: Bidders must use Revised Bid Schedule 3/24/2026 in lieu of previously issued.

END OF ADDENDUM

Invitation to Bid No. RFB-219-26
For: 24059 AMLBAML
AML Project
Boyd County, Kentucky

Susan Ward, Statewide Procurement Analyst II
Division of Engineering and Contract Administration

REVISED BID SCHEDULE 3/24/2026

RFB-219-26

**24059AMLBAML RECLAMATION PROJECT
BOYD COUNTY, KENTUCKY
BID SCHEDULE**

| <u>NO.</u> | <u>ITEM</u> | <u>M.O.P.</u> | <u>UNIT</u> | <u>QUANTITY</u> | | <u>* Low APL</u> | <u>UNIT PRICE</u> | <u>TOTAL</u> |
|------------|--|---------------|-------------|-----------------|---|------------------|--------------------|--------------|
| 1 | MOBILIZATION | L.S. | L.S. | 1.0 | X | NA | ≤ NA = \$ | 12,500.00 |
| 2 | UTILITY RELOCATION/REPLACEMENT | A.C.U. | A.C.U. | 1.0 | X | NA | ≤ \$ 5,000.00 = \$ | 5,000.00 |
| 3 | LANDSCAPE ALLOWANCE | A.C.U. | A.C.U. | 1.0 | X | NA | ≤ \$ 5,000.00 = \$ | 5,000.00 |
| 4 | STRUCTURE REMOVAL/REPLACEMENT | L.S. | L.S. | 1.0 | X | NA | ≤ \$ 2,000.00 = \$ | 2,000.00 |
| 5 | SITE PREPARATION | U.P. | ACRE | 1.5 | X | \$750.00 | ≤ \$ = \$ | |
| 6 | DOMESTIC, INDUSTRIAL, & MINING DEBRIS DISPOSAL | U.P. | TON | 50.0 | X | \$8.00 | ≤ \$ = \$ | |
| 7 | 60 KSI REINFORCING STEEL | U.P. | LBS | 1,405.0 | X | \$0.75 | ≤ \$ = \$ | |
| 8 | CONCRETE- FORMED & FINISHED | U.P. | CY | 125.0 | X | \$350.00 | ≤ \$ = \$ | |
| 9 | FILTER FABRIC | U.P. | SY | 55.0 | X | \$1.00 | ≤ \$ = \$ | |
| 10 | GEO-GRID | U.P. | SY | 50.0 | X | \$2.00 | ≤ \$ = \$ | |
| 11 | NO. 2 STONE BACKFILL | U.P. | TON | 125.0 | X | \$25.00 | ≤ \$ = \$ | |
| 12 | CLASS II BACKFILL | U.P. | TON | 50.0 | X | \$25.00 | ≤ \$ = \$ | |
| 13 | SILT BARRIER - BALES & FENCE | U.P. | LF | 400.0 | X | \$1.00 | ≤ \$ = \$ | |
| 14 | EARTHWORK - GRADEWORK | U.P. | ACRE | 1.5 | X | \$2,500.00 | ≤ \$ = \$ | |
| 15 | EROSION CONTROL BLANKET- ECB | U.P. | SY | 200.0 | X | \$1.25 | ≤ \$ = \$ | |
| 16 | PLASTIC TRENCH- VEHICULAR TRAFFIC | U.P. | LF | 16.0 | X | \$10.00 | ≤ \$ = \$ | |
| 17 | RETAINING WALL SUBDRAIN | U.P. | LF | 40.0 | X | \$14.00 | ≤ \$ = \$ | |
| 18 | NON-REINFORCED CONCRETE BLOCK WALL- TYPE II | U.P. | SF | 420.0 | X | \$25.00 | ≤ \$ = \$ | |
| 19 | SEEDBED PREPARATION | U.P. | ACRE | 0.5 | X | \$75.00 | ≤ \$ = \$ | |
| 20 | AGRICULTURAL LIMESTONE | U.P. | TON | 25.0 | X | \$30.00 | ≤ \$ = \$ | |
| 21 | FERTILIZER | U.P. | TON | 1.0 | X | \$1,000.00 | ≤ \$ = \$ | |
| 22 | SEED | U.P. | LBS | 40.0 | X | \$6.00 | ≤ \$ = \$ | |
| 23 | MULCH- STRAW & HAY | U.P. | ACRE | 0.5 | X | \$150.00 | ≤ \$ = \$ | |
| 24 | COVER CROP | U.P. | BUSHEL | 5.0 | X | \$15.00 | ≤ \$ = \$ | |
| 25 | RESIDENTIAL SEEDING | U.P. | ACRE | 1.0 | X | \$750.00 | ≤ \$ = \$ | |
| 26 | TOPSOIL | U.P. | CY | 650.0 | X | \$0.00 | ≤ \$ = \$ | |
| 27 | DENSE GRADE AGGREGATE | U.P. | TON | 75.0 | X | \$20.00 | ≤ \$ = \$ | |
| 28 | ROADWAY STONE | U.P. | TON | 100.0 | X | \$15.00 | ≤ \$ = \$ | |
| 29 | BASEMENT WINDOW WELLS | U.P. | EACH | 3.0 | X | \$0.00 | ≤ \$ = \$ | |
| 30 | RESIDENTIAL GUTTERS | L.S. | L.S. | 1.0 | X | \$0.00 | ≤ \$ = \$ | |
| | | | | | | | BID TOTAL = \$ | |

NOTE: THE AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST PAGE MUST BE PROPERLY EXECUTED FOR THE TOTAL BID AMOUNT TO BE VALID.

* Any Unit Price outside the Allowable Price Limit (APL) range may be considered an unbalanced bid and may have to be justified in writing if such bid is deemed the low responsive bid.

Project Description
24059AMLBAML Reclamation Project
Boyd County, Kentucky

The project is located at 401 Four Mile Road, Rush, KY 41168 in Boyd County, KY. The project coordinates are 38.3129 N, 82.7340 W. Access to the site is via state roads, yard, and previously used construction access road

This project is a follow-up project to a prior AML project to address remaining site issues, including gradework, handling of waste concrete, and spreading of offsite topsoil for proper revegetation of the residential site. A pre-cast concrete block wall and ramp will be constructed for basement access. Drainage will be tied into previously installed subdrain, and gutters will be installed on the house to carry water to the existing drainage structures. A previously disturbed concrete pad and driveway will be replaced. An existing porch awning will be reinstalled. Repairs to previously disturbed utilities will be made as well.

Project limits include 3.5 acres, which includes 0.5 acres being used for the waste area. There will be a total expected disturbance of 1.5 acres. Within the stable area, a total of one tree will be disturbed. If required, AML will make a payment to the Imperiled Bat Conservation Fund in accordance with a determination from USFWS.

Waste material, including concrete debris, will be disposed of or broken up and buried on site as necessary.

Revegetation of the site, including agricultural limestone, fertilizer, mulch and seed will be done according to standard AML design specifications. Roadway stone will be used where needed to establish and maintain existing drives and access roads. The strict implementation and enforcement of standard AML sediment and erosion control Best Management Practices will prevent significant amounts of sediments disturbed by project related activities from entering area streams to create indirect impacts to aquatic resources.

**24059 AML BAML RECLAMATION PROJECT
BOYD COUNTY, KENTUCKY**

The project is located at 401 Four Mile Road, Rush, KY 41168 in Boyd County, KY. The project coordinates are 38.3129 N, 82.7340 W. Access to the site is via state roads and a residential driveway, yard and access road.

This project is a follow-up project to a prior AML project to address remaining site issues, including gradework, handling of waste concrete, and spreading of offsite topsoil for proper revegetation of the residential site. A pre-cast concrete block wall and ramp will be constructed for basement access. Drainage will be tied into previously installed subdrain, and gutters will be installed on the house to carry water to the existing drainage structures. A previously disturbed concrete pad and driveway will be replaced. An existing porch awning will be reinstalled. Repairs to previously disturbed utilities will be made as well.

A. STANDARD DOCUMENTS

The AML Standard Details and Technical Specifications are posted on the Division's website at <https://eec.ky.gov/aml>

Once on the web page, please click "Contractor Information" tab located on the right side. AML standard technical specification and detail are located under this tab. Contractors are strongly encouraged to review the complete AML website for additional information.

B. ALLOWABLE PRICE LIMIT

The lowest Allowable Price Limit (APL) is listed on the Bid Schedule as part of the bid documents. Unit Price, Plan Quantity, and Lump Sum are all methods of payment. Significantly low or high values entered by the CONTRACTOR on the Bid Schedule may be considered an unbalanced bid and may have to be justified in writing if such bid is deemed the low responsive bid.

An example would be if a CONTRACTOR assumes there may not be a need for the entire design quantity for Roadway Stone and entered a \$10 value for Roadway Stone when the cost at the quarry is significantly higher. Another example would be if the CONTRACTOR enters a value of \$30 per linear foot for "SILT BARRIER - BALES & FENCE" to front load payments for work items used near the beginning of the project. The CONTRACTOR is also cautioned that other considerations for rejection may be enforced such as the low bid being higher than the budgeted dollar amount for this project.

C. CONTRACT LENGTH

All work shall be completed within **ninety (90)** calendar days from the effective date of the Award of Contract. Within the bounds of prudent project performance, it shall be the responsibility of the CONTRACTOR to plan and implement construction sequences which follow the intent of these CONTRACT DOCUMENTS, particularly as, reflected in the Drawings and Special Conditions and to protect any portion of the contract which may be completed before others.

D. CONTRACTOR'S INFORMATION SHEET

The AML CONTRACTOR/SUBCONTRACTOR INFORMATION FORM sheet must be filled out and submitted with the bid. Failure to submit the AML Contractor/SubContractor Information Form sheet with the bid will be the basis for declaring the bid "Non-Responsive"

E. SPECIAL CONDITIONS & PROJECT NOTES

- On occasion, a property owner may require a CONTRACTOR to add them on their General Liability and/or Automobile Insurance as an "Additional Insured." AML will inform the CONTRACTOR when this requirement is being made by the property owner. In these cases, the CONTRACTOR must submit to AML copies of their certificate of insurance documenting the "Additional Insured" before they will be allowed to mobilize equipment and forces on to said properties. Any fees, rate increases, or other costs incurred by the CONTRACTOR for this requirement, if any, will be considered incidental to mobilization and as such no compensation will be made by AML. The "Additional Insured" must remain on the CONTRACTOR's policy(s) for the full length of the contract.
- *The Contractor is not responsible for the IBCF Fees. If required, IBCF Fees will be paid by AML after a contract is awarded and prior to any disturbance to trees. NO trees will be disturbed without prior written AML approval.*
- *Topsoil shall be approved by AML prior to delivery and use. Topsoil shall be used to establish residential vegetation and shall be free of substantial rock. Topsoil will be used to top dress the site following final grading and shall receive minimal compaction.*
- *Gutters shall be continuous. Discharges shall be connected to the existing subdrains or into installed buried lines leading away from the house*

F. DAVIS BACON SCALE WAGES

The CONTRACTOR and all SUBCONTRACTORS are required to pay scale wages as defined in the contract documents. If all employment categories that may be used have not been listed and specified in the contract document, then the contractor must make his best determination of what the missing wage rate will be. Subsequently after the bid is awarded, the contractor must request the specific rate from the Department of Labor. AML will not issue change orders for additional compensation if the wage rate determined by DOL is higher than the rate the contractor used to develop his bid. If wage rates are not included for a specific category, AML suggests that the contractor assume the highest operator or laborer wages that are listed when developing his bid.

G. PERMITS & FEES – AML will be responsible for obtaining any permits that are checked below. (Check all that apply)

- KYTC Encroachment Permit
- KY DOW Water Permits
- USACE Permit

The CONTRACTOR is responsible for all other permits and/or fees necessary to begin the project. The CONTRACTOR is advised that on occasion, other permits and/or fees may be required by federal, state,

and local government(s). Other types of permits and/or fees are not the responsibility of AML and as such, these will be the complete and total responsibility of the CONTRACTOR to obtain. These must be obtained before AML will allow mobilization of equipment and forces on to said properties. All costs associated with other permits or fees will be the responsibility of the CONTRACTOR. Please refer to “General Provisions” in the AML Technical Specifications.

BID ITEM DESCRIPTION
24059AMLBAML RECLAMATION PROJECT
BOYD COUNTY, KENTUCKY

| NO | ITEM | DESCRIPTION |
|----|---|---|
| 1 | MOBILIZATION | <p>This item consists of the mobilization and demobilization of the CONTRACTOR’S forces and equipment in accordance with the “Mobilization/Demobilization” AML Standard Technical Specification. The amount of this bid item is not to exceed 5 percent of the sum of the lump sum bid price.</p> <p>Measurement: Not Applicable.</p> <p>Payment: Payment shall be made at increments set in the AML Technical Specifications totaling the Lump Sum price.</p> |
| 2 | UTILITY RELOCATION / REPLACEMENT | <p>This consists of furnishing all materials, equipment, and labor necessary to replace utilities damaged by construction or relocate any utilities that are in the construction area in accordance with the “Utility Relocation” AML Standard Technical Specification. The CONTRACTOR is required to supply the ENGINEER with all documentation to support cost incurred to qualify for reimbursement.</p> <p>Special Considerations: None</p> <p>Major Incidentals: These will be listed in writing by the ENGINEER prior to beginning the work.</p> <p>Measurement: Not Applicable.</p> <p>Payment: Payment shall be made for Actual Documented Costs for “UTILITY RELOCATION/REPLACEMENT” approved by the ENGINEER. The payment shall be a direct reimbursement for actual documented costs to the CONTRACTOR in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |

| | | |
|---|----------------------------|---|
| 3 | LANDSCAPE ALLOWANCE | <p>This item of work shall consist of furnishing all materials, equipment, and labor necessary to replace damaged landscape structures, plants and trees as depicted on Drawings and as directed by ENGINEER in accordance with the “Revegetation” AML Standard Technical Specification. The CONTRACTOR is required to supply the ENGINEER with all documentation to support cost incurred to qualify for reimbursement.</p> <p>Special Considerations: None</p> <p>Inspector Notes: Conduct a picture inventory of landscape items that may be affected before construction starts and keep an item list of those landscape items that are affected.</p> <p>Major Incidentals: These will be listed in writing by the ENGINEER prior to beginning the work.</p> <p>Measurement: Not Applicable</p> <p>Payment: Payment for Actual Documented Costs “LANDSCAPE ALLOWANCE” approved IN ADVANCE by the ENGINEER. The payment shall be a direct reimbursement for the removal/replacement of landscape features as approved/directed by the ENGINEER in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |
|---|----------------------------|---|

| | | |
|---|---------------------------------------|---|
| 4 | STRUCTURE REMOVAL/ REPLACEMENT | <p>This item represents the ENGINEER'S best estimate of removal/replacement cost of designated qualifying structural features “in kind” to facilitate normal construction activities as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Structure Removal / Replacement” AML Standard Technical Specification. The CONTRACTOR is required to supply the ENGINEER with all documentation to support cost incurred to qualify for reimbursement.</p> <p>Special Considerations: None</p> <p>Inspector Notes: Inventory of structures, pictures, and dimensions, before construction starts. Any structures that are removed shall be accompanied by pictures.</p> <p>Major Incidentals: These will be listed in writing by the ENGINEER prior to beginning the work.</p> <p>Measurement: None</p> <p>Payment: Payment shall be made for Actual Documented Costs for “STRUCTURE REMOVAL/REPLACEMENT” approved IN ADVANCE by the ENGINEER. The payment shall be a direct reimbursement for actual documented costs to the CONTRACTOR in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |
|---|---------------------------------------|---|

| | | |
|----------|--|---|
| <p>5</p> | <p>SITE PREPARATION</p> | <p>This item of work shall consist of furnishing all materials, equipment, and labor as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Site Preparation” AML Standard Technical Specification.</p> <p><u>Special Considerations:</u> None</p> <p><u>Major Incidentals:</u> Clearing, grubbing, windrowing, burning, pipe removal and disposal, pipe cleanout, temporary diversion ditch construction, domestic debris removal and disposal, concrete & bituminous asphalt debris removal and disposal, access improvement/construction, in-kind fence repair/replacement, and temporary stream diversion.</p> <p><u>Measurement:</u> Actual Quantities shall be measured with a handheld GPS and rounded up to the next whole 0.5 acre actually cleared and grubbed (excludes slurry and refuse areas).</p> <p><u>Payment:</u> Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “SITE PREPARATION” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, materials, equipment, and other items necessary to complete the work.</p> |
| <p>6</p> | <p>DOMESTIC, INDUSTRIAL, & MINING DEBRIS DISPOSAL</p> | <p>This item of work shall consist of furnishing all material, equipment, and labor necessary to remove industrial and mining debris within the project limits as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Industrial Mining Debris Removal” and “Site Preparation” AML Standard Technical Specifications.</p> <p><u>Special Considerations:</u> None</p> <p><u>Measurement:</u> Actual Quantities shall be measured based on weigh tickets supplied to the ENGINEER as ton(s) hauled to an appropriate landfill.</p> <p><u>Payment:</u> Payment shall be the product of Actual Accepted Quantities and the Unit Price for “DOMESTIC, INDUSTRIAL, & MINING DEBRIS DISPOSAL” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, materials, equipment, and incidentals.</p> |

| | | |
|----------|--|--|
| <p>7</p> | <p>60-KSI REINFORCING STEEL</p> | <p>This item consists of furnishing all materials, equipment, and labor necessary to properly installing 60 KSI reinforcing steel of various diameters and lengths as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Concrete” and “Steel” AML Standard Technical Specifications. This bid item covers steel used for: reinforcement in concrete ditches (all types), footers, retaining walls, concrete piles & cap reinforcement, anchors, <u>Special Considerations:</u> See AML Technical Specification for overlap Steel Item 2.2.6. No splicing shall be permitted for length of steel less than 10 feet in length. Splicing of lengths between 10 feet and 20 feet is allowed. No lengths less than 4 feet is allowed including the overlap. For lengths greater than 20 feet splicing is allowed. Minimum length of steel shall be 10 foot including overlap. Maximum of 10 % payment for overlap steel. <u>Major Incidentals:</u> Coatings, excess steel, connections, cut-offs, testing, and waste materials <u>Measurement:</u> Actual Quantities shall be measured as pounds of reinforcing steel placed and accepted by the ENGINEER. Actual Quantities may be obtained by using a CRSI chart that shows lbs/lf for each size bar and multiplying the length of each bar used. <u>Payment:</u> Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “60-KSI REINFORCING STEEL” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment as specified shall constitute full compensation for all labor, materials, equipment, and incidentals.</p> |
| <p>8</p> | <p>CONCRETE-FORMED & FINISHED</p> | <p>This item consists of furnishing all materials, equipment, and labor necessary to construct concrete field cast items as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Concrete” AML Standard Technical Specification. This bid item covers concrete used for: concrete ditches (all types), retaining walls (all types), footers, caps, and any other purpose that requires formwork and/or finishing. All formwork, no matter the size/scale or changes are incidental, including increases in heights of walls. <u>Special Considerations:</u> None <u>Inspector Notes:</u> Collect manufacturer certificates for each unit. <u>Major Incidentals:</u> Formwork (including height/width increases), admixtures, finishing, materials testing. <u>Measurement:</u> Actual Quantities shall be measured as the next whole cubic yard installed and accepted by the ENGINEER. <u>Payment:</u> Payment shall be the product of the Actual Accepted Quantities and the Unit Price for “CONCRETE- FORMED & FINISHED” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, materials, equipment, and incidentals.</p> |

| | | |
|----|-----------------------------|---|
| 9 | FILTER FABRIC | <p>This item consist of furnishing all materials, equipment, and labor, necessary to install filter fabric utilized in ditch construction as depicted on the Drawings and as directed by the ENGINEER in accordance with “Filter Fabric” AML Standard Technical Specification. This includes all types of filter fabric used on a jobsite. The standard details list the type and quantity of fabric for each purpose.</p> <p>Special Considerations: None</p> <p>Inspector Notes: Collect manufacturer certificates for each unit.</p> <p>Major Incidentals: Staples</p> <p>Measurement: Actual Quantities shall be measured as the next whole square yard installed and accepted by the ENGINEER.</p> <p>Payment: Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “FILTER FABRIC” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |
| 10 | GEOGRID | <p>This item consist of furnishing all materials, equipment, and labor, necessary to install geogrid, including all labor, materials, and accessories as depicted on the Drawings and as directed by the ENGINEER in accordance with “Geo-grid” AML Standard Technical Specification. All geo-grid is bi-axial, except for tails behind Non-reinforced Block Walls- Type I.</p> <p>Special Considerations: None</p> <p>Inspector Notes: Collect manufacturer certificates for each unit.</p> <p>Major Incidentals: Staples</p> <p>Measurement: Actual Quantities shall be measured as the next whole square yard installed and accepted by the ENGINEER.</p> <p>Payment: Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “GEOGRID” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |
| 11 | NO. 2 STONE BACKFILL | <p>This item shall consists of furnishing all materials, equipment, and labor necessary to place No. 2 stone aggregate as depicted on the Drawings and as directed by the ENGINEER in accordance with “Crushed Aggregate and Channel Lining” AML Standard Technical Specification.</p> <p>Special Considerations: None</p> <p>Measurement: Actual Quantities shall be measured based on weigh tickets supplied to the ENGINEER as ton(s) installed and accepted by the ENGINEER.</p> <p>Payment: Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “NO. 2 STONE BACKFILL” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, materials, equipment, and incidentals.</p> |

| | | |
|----|--------------------------|---|
| 12 | CLASS II BACKFILL | <p>This item consists of furnishing all materials, equipment, and labor necessary to place Class II aggregate as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Crushed Aggregate and Channel Lining” AML Standard Technical Specification.</p> <p><u>Special Considerations:</u> None</p> <p><u>Measurement:</u> Actual Quantities shall be measured based on weigh tickets supplied to the ENGINEER as ton(s) of each type of aggregate installed and accepted by the ENGINEER.</p> <p><u>Payment:</u> Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “CLASS II BACKFILL” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, materials, equipment, and incidentals.</p> |
|----|--------------------------|---|

SILT CONTROL

| | | |
|----|--|---|
| 13 | SILT BARRIER– BALES & FENCE | <p>This item consists of furnishing all materials, equipment, and labor necessary to maintain silt control as depicted on the Drawings, AML Standard Details, and as directed by the ENGINEER in accordance with the “Silt Control” AML Standard Technical Specification. Hay/straw bales shall be placed with an overlap equal to 0.4 bales per linear foot of silt control fencing. Silt fence shall be trenched and removed at the end of the project. <u>Failure to remove silt control fence (geotextile fabrics) shall result in forfeiture of demobilization.</u></p> <p><u>Special Considerations:</u> None</p> <p><u>Major Incidentals:</u> Maintenance, silt fence trenching and removal</p> <p><u>Measurement:</u> Actual Quantities shall be measured as the next whole linear foot installed and accepted by the ENGINEER.</p> <p><u>Payment:</u> Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “SILT BARRIER - BALES & FENCE” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for materials, equipment, labor, and incidentals.</p> |
|----|--|---|

EARTHWORK

| | | |
|----|------------------------------|---|
| 14 | EARTHWORK – GRADEWORK | <p>This item consist of furnishing all materials, equipment, and labor necessary to accomplish the required excavating, placement, and grading of material as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Earthwork” AML Standard Technical Specification.</p> <p>Special Considerations: None</p> <p>Measurement: Actual Quantities shall be measured with a handheld GPS and rounded up to the next whole 0.5 acre.</p> <p>Payment: Payment shall be the product of the Plan Quantity Volume and the Unit Price bid for “EARTHWORK-GRADEWORK” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, materials, equipment, and other items necessary to complete the work—this includes all transportation and gradework efforts associated with designated waste areas.</p> |
|----|------------------------------|---|

DRAINAGE CONTROL

SURFACE DRAINAGE

| | | |
|----|---|--|
| 15 | EROSION CONTROL BLANKET-ECB (BENCHES, DITCHES, & SLOPES) | <p>This item consist of furnishing all materials, equipment, and labor necessary to install all types of erosion control blanket (ECB) as depicted on the Drawings, AML Standard Details, and as directed by the ENGINEER in accordance with the “Erosion Control Blanket” AML Standard Technical Specification. Subgrade preparation shall be incidental. Placement of ECB for slope protection will also be covered by this bid item.</p> <p>Special Considerations: None</p> <p>Major Incidentals: Excavation, subgrade preparation</p> <p>Measurement: Actual Quantities shall be measured as the next whole square yard, including overlaps, installed and approved by the ENGINEER.</p> <p>Payment: Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “EROSION CONTROL BLANKET-ECB” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation full compensation for all labor, materials, equipment, and incidentals.</p> |
|----|---|--|

| | | |
|----|---|---|
| 16 | PLASTIC TRENCH DRAIN-VEHICULAR TRAFFIC | <p>This item consist of furnishing all materials, equipment, and labor necessary to install plastic trench drains and painted ductile iron grates as depicted on the Drawings, AML Standard Details, and as directed by the ENGINEER. These grates are designed for vehicular traffic and have average throat width of 9-12” and depth of 6”. They are made of HDPE or plastic/concrete resin and set in a concrete apron with the grates bolted to the unit.</p> <p>Special Considerations: None.</p> <p>Major Incidentals: Painted ductile iron grates, bolts, rebar anchors (for trench), connectors, seals, end caps.</p> <p>Measurement: Actual Quantities shall be measured to the next whole linear installed and accepted by the ENGINEER.</p> <p>Payment: Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “PLASTIC TRENCH DRAIN- VEHICULAR TRAFFIC” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, materials, equipment, and incidentals.</p> |
|----|---|---|

SUBSURFACE DRAINS

| | | |
|----|--------------------------------|--|
| 17 | RETAINING WALL SUBDRAIN | <p>This item of work shall consist of furnishing all materials, equipment, and labor necessary to install subsurface drains as depicted on the Drawings, AML Standard Details, and as directed by the ENGINEER in accordance with the “Crushed Aggregate and Channel Lining”, “Filter Fabric”, and “Subsurface Drains” AML Standard Technical Specifications.</p> <p>Special Considerations: None</p> <p>Major Incidentals: Pipe, filter fabric, aggregate backfill</p> <p>Measurement: Actual Quantities shall be measured as the next whole linear foot installed and accepted by the ENGINEER.</p> <p>Payment: Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “RETAINING WALL SUBDRAIN” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |
|----|--------------------------------|--|

DRILLING & WALL STRUCTURES

| | | |
|----|--|---|
| 18 | NON-REINFORCED CONCRETE BLOCK WALL- TYPE II | <p>This item consists of furnishing all materials, equipment, and labor necessary to construct a pre-cast concrete block wall as depicted on the Drawings, AML Standard Details, and as directed by the ENGINEER in accordance with the “Non-Reinforced Concrete Block Walls” AML Standard Technical Specification.</p> <p>Special Considerations: None</p> <p>Major Incidentals: Blocks, pins, adhesive, subgrade preparation</p> <p>Measurement: Actual Quantities shall be measured as the next whole square foot installed and approved by the ENGINEER.</p> <p>Payment: Payment shall be the product of the Actual Accepted Quantities installed and the Unit Price for “NON-REINFORCED CONCRETE BLOCK WALL- TYPE II” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, materials, equipment, and incidentals.</p> |
|----|--|---|

REVEGETATION

| | | |
|----|----------------------------|--|
| 19 | SEEDBED PREPARATION | <p>This item shall consist of furnishing all materials, equipment, and labor for the purpose of revegetation of the disturbed areas as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Revegetation” AML Standard Technical Specification.</p> <p>Special Considerations: None</p> <p>Measurement: Actual Quantities shall be measured to the next whole full acre approved by and accepted by the ENGINEER.</p> <p>Payment: Payment for revegetation shall the product of the Actual Accepted Quantities and the respective Unit Price bid for "SEEDBED PREPARATION” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all materials, labor, equipment, and incidentals.</p> |
|----|----------------------------|--|

| | | |
|-----------|--------------------------------------|--|
| <p>20</p> | <p>AGRICULTURAL LIMESTONE</p> | <p>These items shall consist of furnishing all materials, equipment, and labor for the purpose of revegetation of the disturbed areas as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Revegetation” AML Standard Technical Specification. DAML will use the current Limestone Sample Results published by the KY Department of Agriculture to determine a Relative Neutralizing Value (RNV) for weight adjustment.</p> <p><u>Special Considerations:</u> None</p> <p><u>Inspector Notes:</u> Collect supplier tickets.</p> <p><u>Major Incidentals:</u> Application and incorporation</p> <p><u>Measurement:</u> Actual Quantities shall be measured based on weigh tickets supplied to the ENGINEER as ton(s) of appropriately sized 85% calcium carbonate (min.) aggregate installed and accepted by the ENGINEER. Material not meeting the minimum sizing and/or calcium carbonate content will be adjusted by multiplying the weight ticket tons supplied by the ratio of the RNV to the minimum RNV rounded to the nearest ton. Material meeting or exceeding all the minimum values is not adjusted.</p> <p><u>Payment:</u> Payment for revegetation shall the product of the Actual Accepted Quantities and the respective Unit Price bid for "AGRICULTURAL LIMESTONE" in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all materials, labor, equipment, and incidentals.</p> |
| <p>21</p> | <p>FERTILIZER</p> | <p>These items shall consist of furnishing all materials, equipment, and labor for the purpose of revegetation of the disturbed areas as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Revegetation” AML Standard Technical Specification.</p> <p><u>Special Considerations:</u> None</p> <p><u>Measurement:</u> Actual Quantities shall be measured to the next whole half ton approved by and accepted by the ENGINEER.</p> <p><u>Payment:</u> Payment for revegetation shall the product of the Actual Accepted Quantities and the respective Unit Price bid for "FERTILIZER" in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all materials, labor, equipment, and incidentals.</p> |

| | | |
|----|-------------------------------|---|
| 22 | SEED | <p>These items shall consist of furnishing all materials, equipment, and labor for the purpose of revegetation of the disturbed areas as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Revegetation” AML Standard Technical Specification. Seed mixture will be listed on the Drawings, Project Description, and/or Special Conditions.</p> <p><u>Special Considerations:</u> None</p> <p><u>Inspector Notes:</u> Collect manufacturer certificates for each unit.</p> <p><u>Major Incidentals:</u></p> <p><u>Measurement:</u> Actual Quantities shall be measured to the next whole pound of pure live seed approved by and accepted by the ENGINEER.</p> <p><u>Payment:</u> Payment for revegetation shall the product of the Actual Accepted Quantities and the respective Unit Price bid for "SEED" in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all materials, labor, equipment, and incidentals.</p> |
| 23 | MULCH- STRAW & HAY | <p>These items shall consist of furnishing all materials, equipment, and labor for the purpose of revegetation of the disturbed areas as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Revegetation” AML Standard Technical Specification.</p> <p><u>Special Considerations:</u> None</p> <p><u>Measurement:</u> Actual Quantities shall be measured to the next half acre approved by and accepted by the ENGINEER.</p> <p><u>Payment:</u> Payment for revegetation shall the product of the Actual Accepted Quantities and the respective Unit Price bid for "MULCH- STRAW & HAY" in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all materials, labor, equipment, and incidentals.</p> |
| 24 | COVER CROP | <p>These items shall consist of furnishing all materials, equipment, and labor for the purpose of revegetation of the disturbed areas as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Revegetation” AML Standard Technical Specification. Cover crop will be winter wheat in the fall and winter and German Foxtail Millet in the spring and summer months.</p> <p><u>Special Considerations:</u> None</p> <p><u>Measurement:</u> Actual Quantities shall be measured to the next whole bushel approved by and accepted by the ENGINEER.</p> <p><u>Payment:</u> Payment for revegetation shall the product of the Actual Accepted Quantities and the respective Unit Price bid for “COVER CROP” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all materials, labor, equipment, and incidentals.</p> |

| | | |
|----|----------------------------|--|
| 25 | RESIDENTIAL SEEDING | <p>This item shall consist of furnishing all materials, equipment, and labor for the purpose of revegetation of the disturbed areas as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Revegetation” AML Standard Technical Specification.</p> <p><u>Special Considerations:</u> None</p> <p><u>Major Incidentals:</u> Seedbed preparation, agriculture limestone, fertilizer, seed, and mulch</p> <p><u>Measurement:</u> Actual Quantities shall be measurement as the next tenth of an acre seeded as approved by the ENGINEER.</p> <p><u>Payment:</u> Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “RESIDENTIAL SEEDING” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, materials, equipment, and incidentals.</p> |
|----|----------------------------|--|

| | | |
|----|----------------|---|
| 26 | TOPSOIL | <p>This item shall consist of furnishing all materials, equipment, and labor necessary to place, and compact topsoil as depicted on the Drawings and as directed by the ENGINEER</p> <p><u>Special Considerations:</u></p> <p><u>Measurement:</u> Actual Quantities shall be measured based on tickets supplied to the ENGINEER as cubic yards of topsoil installed and accepted by the ENGINEER.</p> <p><u>Payment:</u> Payment shall be the product of the Actual Accepted Quantities and Unit Price bid for "TOPSOIL" in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |
|----|----------------|---|

ACCESS REPAIR & SAFETY

| | | |
|----|------------------------------|---|
| 27 | DENSE GRADE AGGREGATE | <p>This item shall consist of furnishing all materials, equipment, and labor necessary to place, and compact dense grade aggregate (DGA) as depicted on the Drawings and as directed by the ENGINEER in accordance with “Crushed Aggregate and Channel Lining” AML Standard Technical Specification.</p> <p><u>Special Considerations:</u> This item is for temporary paved roadway repairs and base preparation prior to bituminous repair. DGA for pipe backfill is incidental to the pipe.</p> <p><u>Measurement:</u> Actual Quantities shall be measured based on weigh tickets supplied to the ENGINEER as ton(s) of aggregate installed and accepted by the ENGINEER.</p> <p><u>Payment:</u> Payment shall be the product of the Actual Accepted Quantities and Unit Price bid for "DENSE GRADE AGGREGATE FOR ROADWAYS" in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |
|----|------------------------------|---|

| | | |
|----|------------------------------|--|
| 28 | ROADWAY STONE | <p>This item shall consist furnishing all materials, equipment, and labor necessary to place and compact as necessary the various gradations of stone as depicted on the Drawings and as directed by the ENGINEER in accordance with the “Crushed Aggregate and Channel Lining” AML Standard Technical Specification.</p> <p>Special Considerations: None</p> <p>Measurement: Actual Quantities shall be measured based on weigh tickets supplied to the ENGINEER as ton(s) of each type of channel lining, and/or aggregate installed and accepted by the ENGINEER.</p> <p>Payment: Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “ROADWAY STONE” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |
| 29 | BASEMENT WINDOW WELLS | <p>This item consists of furnishing all materials, equipment, and labor necessary to properly installing window wells as shown on the Drawings and as directed by the ENGINEER</p> <p>Special Considerations: None</p> <p>Major Incidentals: Materials & Placement</p> <p>Measurement: Not applicable</p> <p>Payment: Payment shall be the product of the Actual Accepted Quantities and the Unit Price bid for “BASEMENT WINDOW WELLS” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for all labor, equipment, materials, and incidentals.</p> |
| 30 | RESIDENTIAL GUTTERS | <p>This item consists of furnishing all materials, equipment, and labor necessary to properly installing continuous residential gutters and downspouts as shown on the Drawings and as directed by the ENGINEER</p> <p>Special Considerations: None</p> <p>Major Incidentals: Materials & Placement</p> <p>Measurement: Not applicable</p> <p>Payment: Payment shall be made at the Lump Sum price bid for “RESIDENTIAL GUTTERS” in accordance with the “General Provisions” AML Standard Technical Specification. Such payment shall constitute full compensation for materials, equipment, labor, and incidentals.</p> |

Erosion and Sediment Control Best Management Practices (BMP) Plan

January 2017

OVERVIEW

This Best Management Practices (BMP) plan is a guide for Kentucky Division of Abandoned Mine Lands (DAML) projects. It contains information regarding preventing, reducing and controlling erosion, sediment, and pollutant runoff from Abandoned Mine Land (AML) Reclamation and Acid Mine Drainage (AMD) Abatement project construction sites. The information in this BMP will aid DAML staff and contractors in selecting, installing, and maintaining erosion prevention and sediment control measures during the different stages of construction. This BMP plan, in accordance with DAML Technical Specifications and Standard Drawings, is intended to protect Kentucky's streams from potential water quality impacts resulting from DAML projects.

This general BMP document is to outline the various pollution prevention measures used on AML Reclamation or AMD Abatement Projects. The primary sources of pollutants are solids mobilized during storm events and precipitants from mineralized mine drainage. Other sources of pollutants include oil/fuel/grease from servicing and operating construction equipment, concrete washout water, sanitary wastes, and trash/debris.

EROSION PREVENTION AND SEDIMENT CONTROL MEASURES

Plans for Reclamation and AMD abatement construction projects will include erosion control measures on the planview sheets when possible, and will depict Disturbed Drainage Areas (DDAs) and related information. The construction notes and project description may describe other control measures. The Contractor and Engineer may select an additional BMP for the project as the project changes and construction progresses. Projects that do not have DDAs annotated in the plans will employ the same concepts selecting and implementing this general BMP plan.

Address disturbed areas or sources of sediments by the most effective means in the specific work area. Direct non-storm water discharges to sediment basins/traps or to a filter fence enclosure in a flat vegetated infiltration area or filtered via another approved commercial product. All deep mine and surface impoundment water will be tested and treated, when as necessary, to meet the DAML Water-Treatment and Disposal Technical Specification unless stricter limitations are listed in an existing Total Daily Maximum Load (TMDL) limit.

PERMITS

The DAML shall review each project during project development to determine whether any permits are required to implement the project work. When a permit is required, DAML will make every effort to obtain the permit prior to letting the project for bidding. Permit specific conditions shall trump any standard conditions and/or practices. All permits must be maintained onsite and produced when requested by regulatory authorities including representative of the permitting authority.

Common permits types for DAML projects:

- 401 Water Quality Certification (WQC)
 - Issued by the KY Division of Water
- 402 KY Pollution Discharge Elimination System (KPDES)
 - DAML activities are covered under the AML KPDES General Permit
- 404 US Army Corps of Engineers (USACE)
 - Issued by the US Army Corps of Engineers- Nashville District, Louisville District, or Huntington District (Depending upon major drainage basin)
- KY Stream Construction (Floodplain)
 - Issued by the KY Division of Water
- Local Floodplain Permit
 - Issued by the County/Municipality
- Local Storm Water Construction
 - Issued by the County/Municipality

A) Field Review Walk-Thru:

The DAML will conduct a project review between the Project Engineer, Construction Branch Personnel, Project Design Technician, and Field Office Staff, to review the construction plans and identify any changes needed prior to letting the project for bidding. The group will evaluate the locations and types of site specific BMP and any other erosion prevention and sediment control measures chosen for incorporation into the final design plans.

B) Site Visit Meeting

DAML will present the project specific BMP and permit requirements/conditions to the potential contractors during the site visit meeting.

C) Pre-Construction Conference

Prior to the actual beginning of the project, DAML will hold a pre-construction conference between representatives of the DAML, the Contractor, including any Subcontractors, as well as other interested agencies and parties. Items discussed will include the time and sequence for construction, planned methods of operation, payment, and other relevant questions including any permit requirements and the erosion and sediment control plan.

D) Construction Access

This is the first land-disturbing activity. Construction entrances shall be a minimum of twenty (20) feet wide by fifty (50) feet long, measured from the shoulder of the public road, and consist of No. 2 aggregate over a heavy weight non-woven filter fabric base. As soon as construction begins, stabilize bare areas with gravel and temporary mulch and/or vegetation.

E) Clearing and Grubbing

Use the following techniques for clearing and grubbing activities:

- 1) Leave areas undisturbed when possible.
- 2) Construct silt basins to provide silt volume for large areas.
- 3) Construct Silt Trap(s) Type A for small areas.
- 4) Construct Type B silt traps for areas with rapid runoff and sediment-laden runoff.
- 5) All silt traps should have a 3:1 flow length to width ratio. Add spreader bars, baffles, or turbidity curtains to maintain the flow path ratio when site conditions require traps sizes smaller than the standard detail dimensions.
- 6) Install geotextile bags and/or rock checks in front of existing drop inlets.
- 7) Construct diversion ditches to catch sheet runoff and carry it to basins or traps or to divert it around areas to be disturbed.
- 8) Maintain brush and/or other barriers to slow and/or divert runoff.
- 9) Construct silt fences/hay bales to catch sheet runoff on short slopes. For longer slopes, multiple rows of silt fence/hay bales may be considered.
- 10) Apply temporarily mulch to area not actively being disturbed or for any area left undisturbed for fourteen (14) days.
- 11) Employ non-standard or innovative methods.

F) Stream Crossings / Work Along Streams

- 1) Temporary low-water stream crossings follow the guidelines included in the DAML Technical Specifications and those established by the KY Division of Water Floodplain Management Section. Removal of a temporary crossing may be required to accommodate large storm events.
- 2) Do not completely block stream flow (even temporary). Instead, utilize some form of pass thru mechanism during all AML projects.
- 3) Work within a stream channel shall not cause flooding of properties upstream, downstream or within the project area or cause downstream water quality degradation. Minimize equipment contact time with the stream water by diverting water around equipment working in or along streams.
- 4) No flowing water will interact with any uncured concrete placed in the stream channel.
- 5) Divert all stream water around the work areas in accordance to methods listed in the DAML Stream Protection & Relocation technical specification, AML Standard Details Section 60, and as by the appropriate permit guidelines.
- 6) Temporary out of channel stream diversion must use one of the three approved methods: pipe diversion, sandbag/stone channel diversion, and/or fabric-based channel diversion. Do not construct any temporarily diverted channel on bare, erodible soil. No temporary diversion shall be permanent without a 401, 404, and other appropriate permits.

G) Deep Mine and Surface Water Impoundments

The DAML Resident Inspector will test the mine water from deep mines and surface impoundments on the project area to determine the pH and total iron content. Treat the water until it meets the DAML Water-Treatment and Disposal Technical Specification or an existing TMDL, whichever is stricter, before release through a silt control structure(s).

Monitoring & Recording

The DAML Inspector will maintain a log of the pH and total iron content results prior to releasing and during each release day. Perform a minimum of two (2) tests downstream each day to ensure the maintenance of water quality during release and is not degrading the receiving stream.

Types of structures/facilities include:

- 1) Silt Traps Type A (20'L x 5'W x 2'D min dugout)
- 2) Silt Traps Type B (20'L x 5'W x 2'D min dugout with rock berm)
- 3) Silt Check - Rock checks with filter fabric core lining installed in channels and in front of pipes
- 4) Temporary silt control fence with Class II filter berm
- 5) Sediment collection bags

H) Cut and Fill and Placement of Drainage Structures

Areas at final grade will be seeded and mulched within five (5) days. Soil stock piles and areas that are not at final grade but where construction will cease for a period of fourteen (14) days or longer, shall receive temporary mulch no later than fourteen (14) days from the last construction activity in that area.

Types of structures/facilities include:

- 1) Silt Traps Type B (20'L x 5'W x 2'D min dugout with rock berm)
- 2) Silt Checks - Bags in front of pipes after they are placed
- 3) Channel lining
- 4) Erosion control blanket
- 5) Temporary mulch and/or seeding for areas where construction activities will be ceased for 14 days or more
- 6) Non-standard or innovative methods

I) Temporary Shutdown

Items to be completed prior to shutdown include:

- 1) Clean out behind, repair or replace silt fence and/or hay bales
- 2) Clean out all silt traps

- 3) Apply temporary mulch and track into the soil
- 4) Sow cover crop (weather permitting)

J) Finish Work

- 1) Establish permanent seeding and protection
- 2) Remove non-permanent silt checks from ditches and drains if protected with other BMPs sufficient to control erosion and vegetation is established.
- 3) Remove non-permanent silt traps and basins.
- 4) Remove geotextile silt fence.
- 5) Planting trees and/or shrubs where they are included in the project.
- 6) Clean out behind, repair, and/or replace bale silt barriers
- 7) Clean out all permanent silt traps and basins

K) Post-Construction

The Contractor shall assume responsibility for all workmanship and materials for a period of one year from the date of final payment, as directed by the Contract Documents. Any work found to be defective due to failure to comply with the provisions and intent of the Contract Documents shall be corrected at the Contractor's expense. Problems determined not to be created by the landowner or due to the Contractor will be addressed by the DAML for a period of up to three years, pending available funding.

OTHER CONTROL MEASURES

L) Solid Materials

No solid materials, including rock and building materials, shall be discharged into waters of the U.S. except as authorized by the Clean Water Act (CWA) Section 401 and Section 404 permits.

M) Waste Materials

Collect and store waste materials that may leach pollutants (paint and paint containers, caulk tubes, oil/grease containers, liquids of any kind, soluble materials, etc.) in appropriate covered waste containers. Remove waste containers from the project site frequently as to not allow wastes to become a source of pollution. Instruct all personnel regarding the correct procedure for waste disposal and dispose of wastes in accordance with appropriate regulations.

N) Hazardous Waste

Manage and dispose of hazardous waste materials in the manner specified by local or state regulation. Notify the Resident Inspector if there are any hazardous wastes generated, and provide a plan for the management and disposal of such materials. Instruct site personnel with regard to proper storage and handling of hazardous wastes when required and use the practices to reduce the risks associated with all hazardous materials. Keep products in original containers

unless they are not re-sealable with the original labels and material safety data sheets (MSDS) will be reviewed and retained.

O) Spill Prevention

Use good housekeeping and material management practices to reduce the risk of spills or other exposure of materials and substances to the weather and/or runoff. Manufacturers' recommended methods for spill cleanup will be maintained on site and readily available upon request. Make personnel aware of procedures and the location of the information and cleanup supplies. Equipment and materials will include as appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.

Clean up all spills immediately after discovery. Keep the spill area well ventilated. Personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance. Report spills of toxic or hazardous material to the appropriate state/local agency as required by KRS 224 and applicable federal law. Wastes from spill cleanup will be disposed of in accordance with appropriate regulations. The spill prevention plan will be adjusted, as needed, to prevent spills from reoccurring and improve spill response and cleanup.

P) Petroleum Products

Monitor vehicles and equipment fueled and maintained on site for leaks, and receive regular preventative maintenance to reduce the chance of leakage. Protect petroleum products onsite will be stored in tightly sealed, clearly labeled containers from exposure to weather. The CONTRACTOR shall not have a total of over 1,300 gallons of petroleum products on site at any given time.

Q) Fertilizers

Store fertilizers in a covered area away from water. Transfer the contents of any partially used bag of fertilizer to a sealable plastic bin to avoid spills. Once applied, work into the soil and apply mulch to limit exposure to storm water.

R) Concrete Truck Washout

Concrete truck mixers and chutes will not be washed on pavement, near storm drain inlets, or within seventy (75) feet of any ditch, stream, wetland, lake, or sinkhole. Where possible, discharge excess concrete and wash water 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, excavate a shallow earthen washbasin away from ditches to receive the wash water.

INSPECTIONS

Use inspection and maintenance practices to maintain erosion and sediment controls:

- 1) The Contractor and DAML Resident Inspector will inspect all erosion prevention and sediment control measures at least once each week and following any rain of 0.1 inch or more.
- 2) The DAML Resident Inspector will record the silt control inspections by in their daily report.
- 3) Silt fences/hay bales will be inspected for bypassing, overtopping, undercutting, depth of sediment, tears, and to ensure attachment to secure posts.
- 4) Inspect silt traps and basins for depth of sediment, and built-up sediment and clean out when it reaches 50% of the design capacity and at the end of the job.
- 5) Inspect diversion dikes and berms and promptly repaired any breaches. Repair areas that are eroding or scouring and re-seeded / mulched as needed.
- 6) Inspect temporary and permanent seeding and mulching for bare spots, washouts, and healthy growth. Repair bare or eroded areas as needed.
- 7) Inspect all material storage and equipment servicing areas that involve the management of bulk liquids fuels and bulk solids weekly for conditions that represent a release or possible release of pollutants to the environment.

MAINTENANCE

Maintain all measures in good working order; initiate corrective actions within twenty-four (24) hours of being reported and completed with five (5) days, address critical failures immediately unless site conditions are too dangerous. Remove Built-up sediment from behind the silt fence/hay bales before it has reached halfway up the height of the fence.

ENFORCEMENT

At all times, representatives from DAML and enforcement agencies will have access to the project site. The ENGINEER reserves right to stop work until erosion prevention and sediment control problems are addressed to his/her satisfaction.

COMMONWEALTH OF KENTUCKY

FINANCE AND ADMINISTRATION CABINET DEPARTMENT FOR FACILITIES & SUPPORT SERVICES DIVISION OF ENGINEERING & CONTRACT ADMINISTRATION FRANKFORT, KENTUCKY

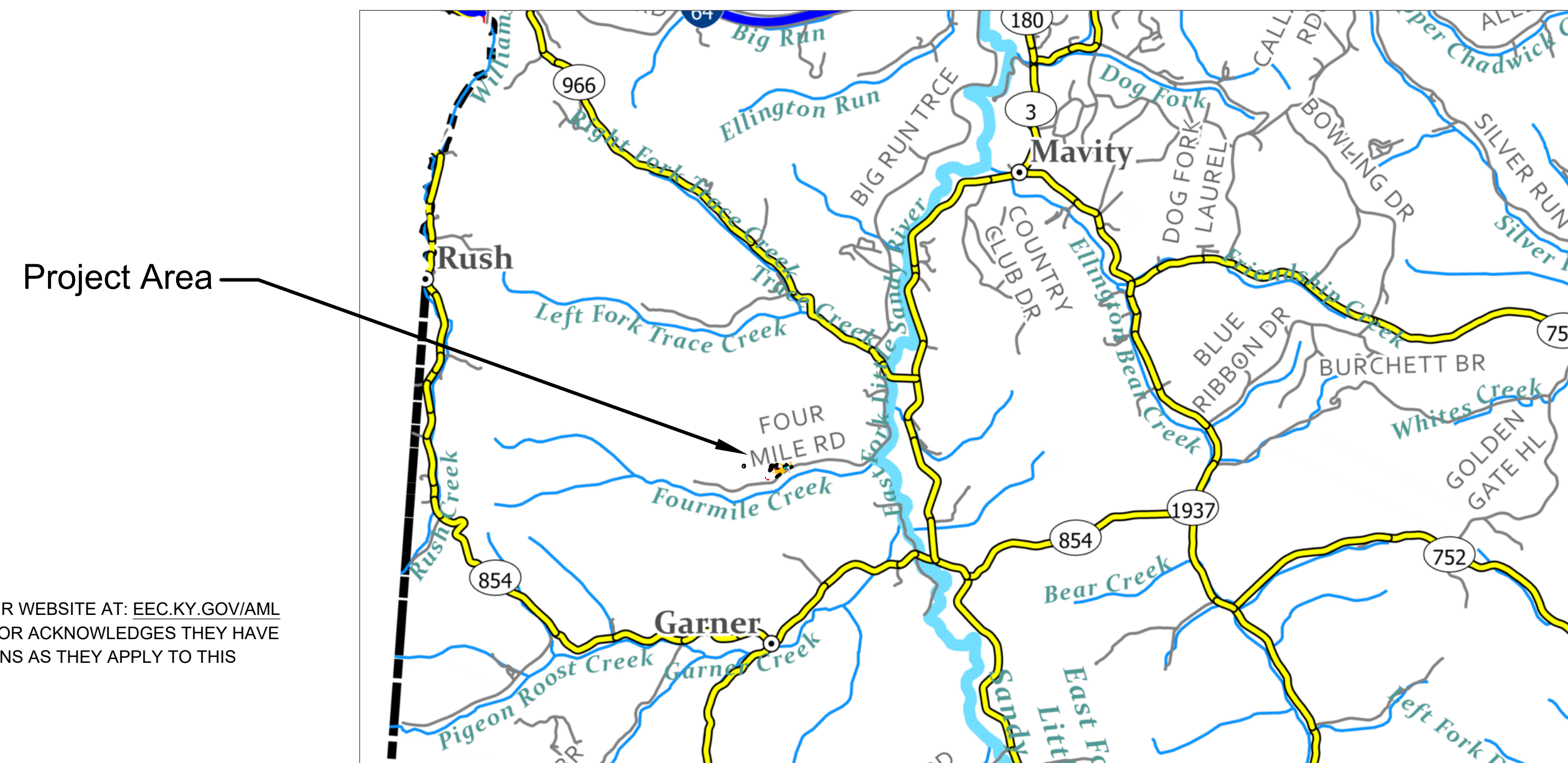
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES
DIVISION OF ABANDONED MINE LANDS

24059AMLBAML
AML RECLAMATION PROJECT
BOYD COUNTY

24059AMLBAML RECLAMATION PROJECT

BOYD COUNTY, KENTUCKY

LOCATION: 401 4 Mile Road, Rush, KY
LATITUDE: 38.3129 LONGITUDE: -82.7340



Index of Sheets

| | |
|-----------------|---|
| PLANVIEW | 2 |
| CONCRETE DETAIL | 3 |
| WALL PROFILE | 4 |

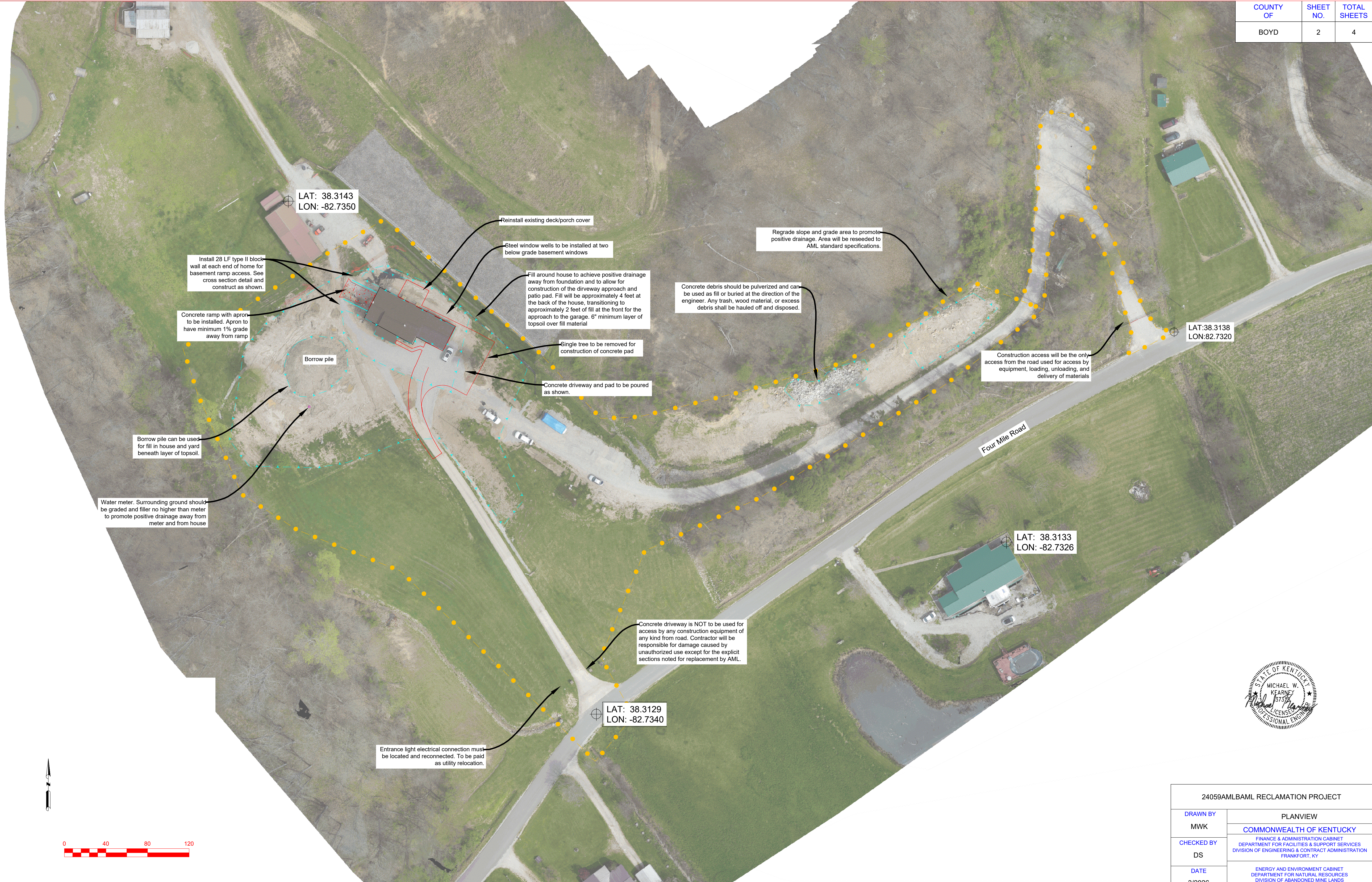


THE AML STANDARD DETAILS AND TECHNICAL SPECIFICATIONS ARE AVAILABLE ON OUR WEBSITE AT: EEC.KY.GOV/AML UNDER "CONTRACTOR INFORMATION". BY BIDDING ON THIS PROJECT THE CONTRACTOR ACKNOWLEDGES THEY HAVE REVIEWED AND UNDERSTAND THE STANDARD DETAILS AND TECHNICAL SPECIFICATIONS AS THEY APPLY TO THIS PROJECT.

UTILITY NOTE

PRIOR TO ANY EXCAVATION OR THE PLACEMENT OF FILL, THE CONTRACTOR IS REQUIRED TO CALL "KENTUCKY 811" TWO (2) BUSINESS DAYS PRIOR TO ANY EXCAVATION / EXCAVATION ACTIVITIES. IF THERE ARE UTILITIES IN THE WORK AREAS THAT ARE NOT MEMBERS OF "KENTUCKY 811", EACH UTILITY HAS TO BE CONTACTED DIRECTLY TO HAVE THEIR FACILITIES MARKED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ABIDE BY THE "UTILITY RELOCATION" TECHNICAL SPECIFICATION AND SECTION 22.3 OF THE "GENERAL PROVISIONS" TECHNICAL SPECIFICATION. DEPICTION OF THE UTILITIES ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL EXISTING UTILITIES.

| COUNTY OF | SHEET NO. | TOTAL SHEETS |
|-----------|-----------|--------------|
| BOYD | 2 | 4 |

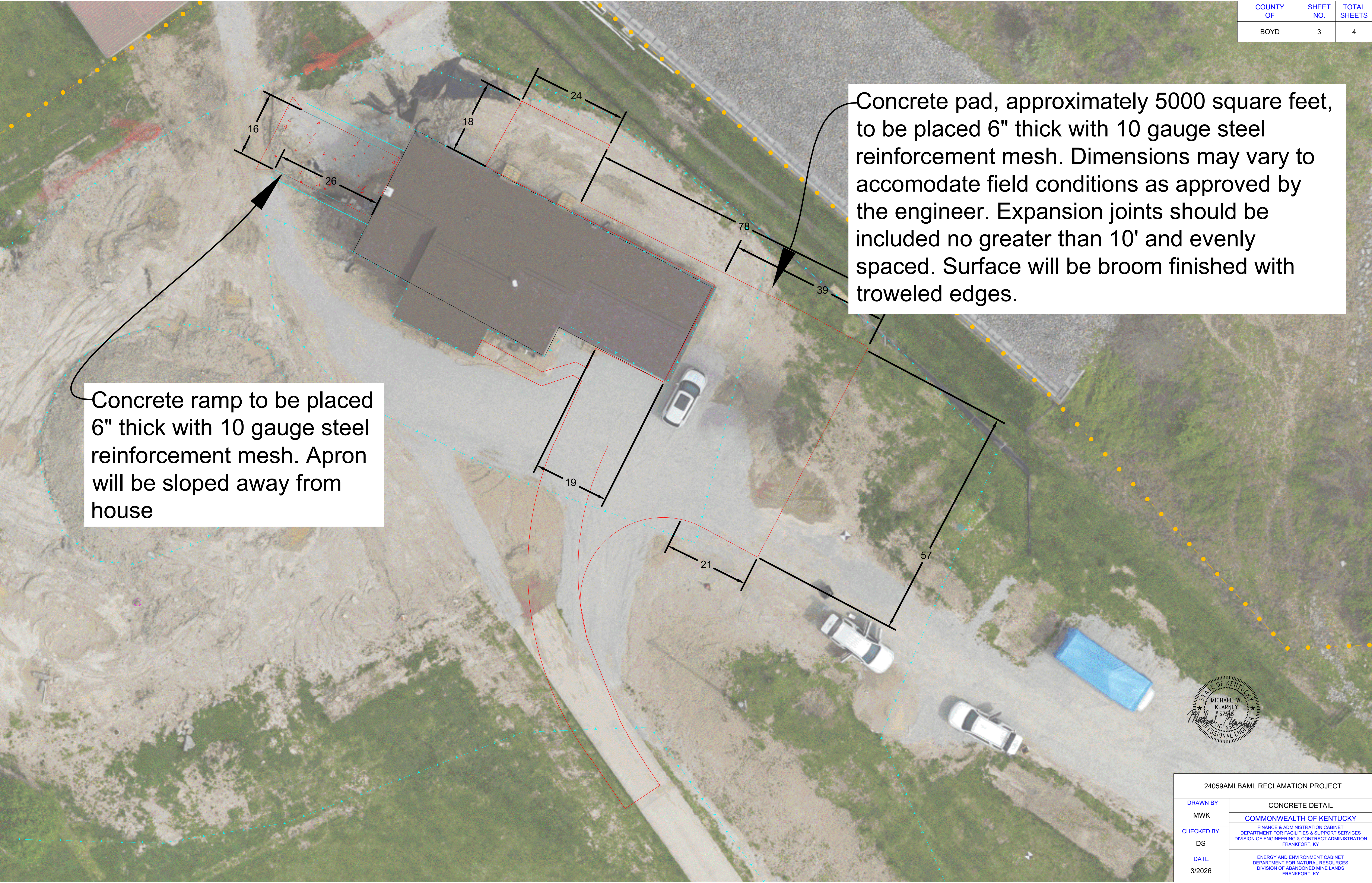


F:\Projects\AML\24059AML\MAML (Mark Riddle Phase IV)\1 Design Phase IV\1 Drawings\ACAD-MarkRiddleIV.dwg



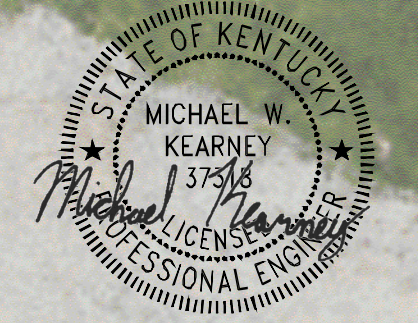
| 24059AMLBAML RECLAMATION PROJECT | |
|----------------------------------|--|
| DRAWN BY | PLANVIEW |
| MWK | COMMONWEALTH OF KENTUCKY |
| CHECKED BY | FINANCE & ADMINISTRATION CABINET DEPARTMENT FOR FACILITIES & SUPPORT SERVICES DIVISION OF ENGINEERING & CONTRACT ADMINISTRATION FRANKFORT, KY |
| DS | |
| DATE | ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR NATURAL RESOURCES DIVISION OF ABANDONED MINE LANDS FRANKFORT, KY |
| 3/2026 | |

| COUNTY OF | SHEET NO. | TOTAL SHEETS |
|-----------|-----------|--------------|
| BOYD | 3 | 4 |



Concrete pad, approximately 5000 square feet, to be placed 6" thick with 10 gauge steel reinforcement mesh. Dimensions may vary to accomodate field conditions as approved by the engineer. Expansion joints should be included no greater than 10' and evenly spaced. Surface will be broom finished with troweled edges.

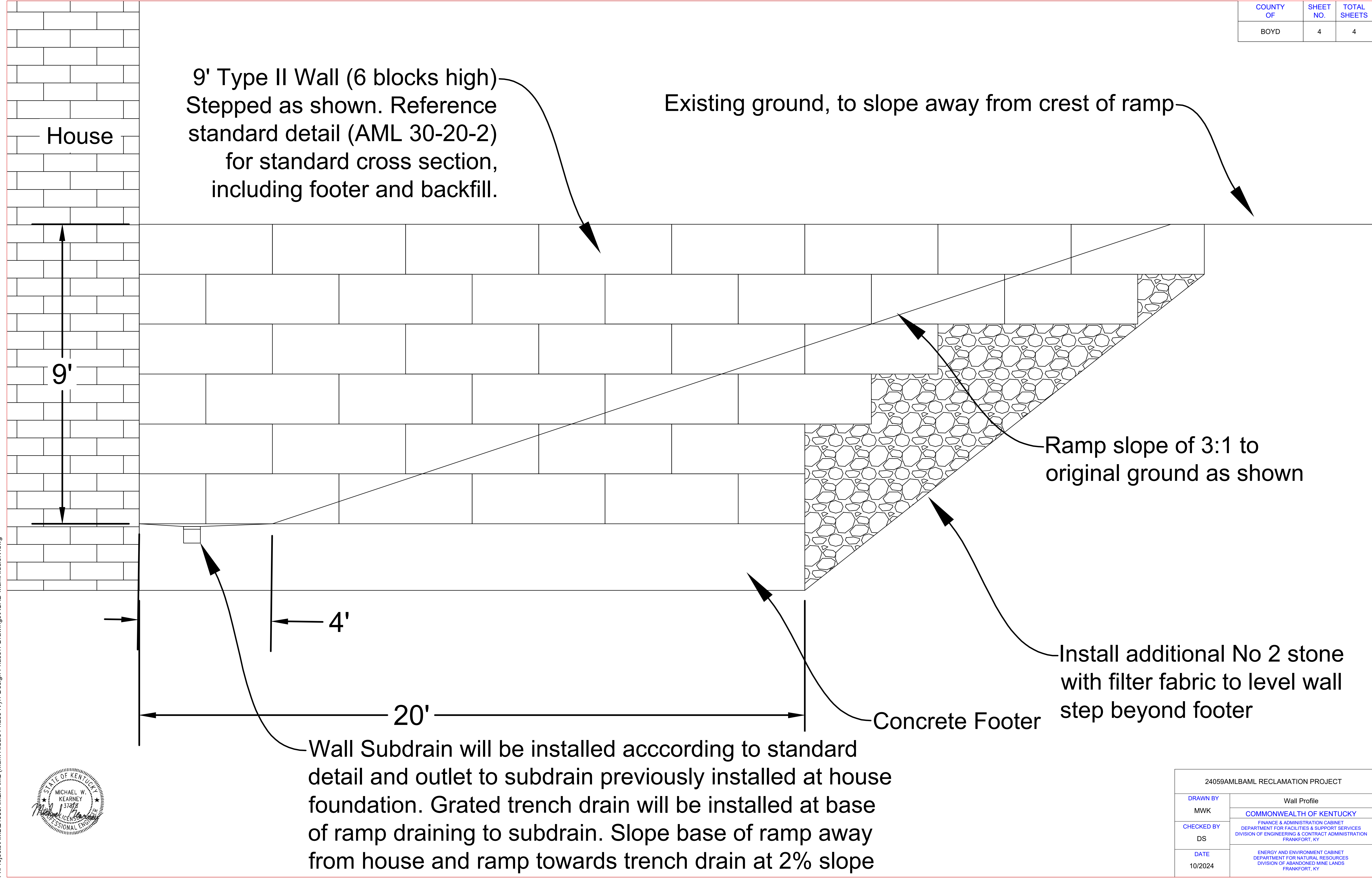
Concrete ramp to be placed 6" thick with 10 gauge steel reinforcement mesh. Apron will be sloped away from house



F:\Projects\AML\24059AML\MAML (Mark Riddle Phase IV)\1 Design Phase\1 Drawings\ACAD-MarkRiddleIV.dwg

| 24059AMLBAML RECLAMATION PROJECT | |
|----------------------------------|--|
| DRAWN BY | CONCRETE DETAIL |
| MWK | COMMONWEALTH OF KENTUCKY |
| CHECKED BY | FINANCE & ADMINISTRATION CABINET DEPARTMENT FOR FACILITIES & SUPPORT SERVICES DIVISION OF ENGINEERING & CONTRACT ADMINISTRATION FRANKFORT, KY |
| DS | |
| DATE | ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR NATURAL RESOURCES DIVISION OF ABANDONED MINE LANDS FRANKFORT, KY |
| 3/2026 | |

| COUNTY OF | SHEET NO. | TOTAL SHEETS |
|-----------|-----------|--------------|
| BOYD | 4 | 4 |



F:\Projects\AML\24059\AML\MAM.L (Mark Riddle Phase IV)\1 Design Phase\1 Drawings\ACAD-MarkRiddleIV.dwg



Wall Subdrain will be installed according to standard detail and outlet to subdrain previously installed at house foundation. Grated trench drain will be installed at base of ramp draining to subdrain. Slope base of ramp away from house and ramp towards trench drain at 2% slope

| 24059AMLBAML RECLAMATION PROJECT | |
|----------------------------------|--|
| DRAWN BY | Wall Profile |
| MWK | COMMONWEALTH OF KENTUCKY |
| CHECKED BY | FINANCE & ADMINISTRATION CABINET DEPARTMENT FOR FACILITIES & SUPPORT SERVICES DIVISION OF ENGINEERING & CONTRACT ADMINISTRATION FRANKFORT, KY |
| DS | |
| DATE | ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR NATURAL RESOURCES DIVISION OF ABANDONED MINE LANDS FRANKFORT, KY |
| 10/2024 | |