ANNOUNCEMENT – CONSTRUCTION BID

Spencer Run
Streambank Stabilization Project

The Blair County Conservation District (BCCD) – 1407 Blair Street Hollidaysburg, Pennsylvania is accepting bids to construct the Spencer Run – Streambank Stabilization Project located in Allegheny Township, Blair County, Pennsylvania. The project will consist of constructing approximately 125’ of mudsill, two log vanes, filling an eroded bank, planting live stakes, and seeding along Spencer Run in Blair County, PA.

This is a request for qualified contractors to provide a full project bid on constructing the stream bank stabilization improvements.

Work is to begin by (Upon Execution of Agreement and when Satisfactory Conditions Exist)
Work is to be completed by **August 31**, **2019**

See attached description of work to be performed.

Name of Firm: ____________________________________________________________________

Phone Number: ___________________________________________________________________

Authorization Signature (Signed in Ink): ____________________________________________________________________

Fed Tax ID (EIN) ___________________________________________________________________

Proposals can be Hand Delivered or Mailed in sealed envelope (three copies) and must be received by **3:00 PM April 22, 2019**. Deadline extensions may be granted at BCCD’s discretion. Address proposals to:

**Spencer Run - Bid**
**Blair County Conservation District**
**1407 Blair Street**
**Hollidaysburg, PA 16648**
REQUEST FOR CONSTRUCTION BID

Spencer Run – Streambank Stabilization
March 29, 2019

The Blair County Conservation District (BCCD), requests bids from qualified contractors to construct the Spencer Run – Streambank Stabilization Project. Bids will include full project bid for constructing the streambank stabilization project along Spencer Run, in Allegheny Township, Blair County, Pennsylvania.

Scope:
Blair County Conservation District and BluAcres, LLC has designed a streambank stabilization structures to stabilize a bank along Spencer Run on the Carson Valley Cemetery Property, located at Spencer Creek Drive, Duncansville, PA 16635 (Allegheny Township, Blair County; 40°26’49.9745”N / 78°26’12.7365”W).

Stream Bank Stabilization Improvements Will Include:
- Constructing approximately 125’ of Modified Mudsill.
- Construct Two (2) Log Vanes.
- Fill Bank with approximately 450 Ton of Rock/Soil Fill.
- Provide Erosion Control.
- Control Water and Divert Stream Flows During Construction.
- Stabilize Areas with COIR Matting.
- Plant approximately 1650 Sq. Ft. with Live Stakes.
- Seed approximately 0.1 acres with erosion control seeding and mulching.

Timeframe:
Work may begin upon execution of agreement and when conditions (Low Stream Flows) occur and must be completed by August 31, 2019.

Site Showing:
A non-mandatory site showing will be conducted on April 4th, 2019 at 1:00 PM at the site. Bidders are encouraged to attend.

Contractor’s Contact Info:
Please provide the following for contacting the Contracting Representative.

a. Phone Number: _______

b. E-mail address: _______

General:
Bid-Packages may be obtained electronically at www.blairconservationdistrict.org or at the Blair County Conservation District Office:
Proposal:
Submit an original and three (3) copies of the written proposal, which should not be over six (6) pages in length. Please list only the equipment and personnel that will be made available for this work. The proposals should contain the following:

1. A brief overview of your business,
2. Statement of related experience,
3. A general statement of organization and qualifications,
4. The names of at least three (3) references that you have done similar work for over the past five years.
5. Statement of price. Please fill in your bid price in Attachment A titled “Bid Schedule”. Those proposals not adhering to these instructions will be removed from consideration.
7. Signed cover sheet including Federal Tax ID#.

Evaluation and Selection:
Proposals will be evaluated by the staff of BCCD and its designees. BCCD reserves the right to designate secondary contractors and award work at its discretion.

Submittal of Proposal:
Proposals will be received by Hand Delivered or Mailed envelope until 3:00 PM April 22, 2019 addressed to:

Donna Fisher
Blair County Conservation District
1407 Blair Street
Hollidaysburg, PA 16648
814.696.0877 x5 (o): dfisher@blairconservationdistrict.org
**General Requirements:**

1. **CONTRACTOR’S REPRESENTATIONS:** The contractor, by making a Bid, represents that (a) the contractor has read and understands the proposal documents, terms and conditions, and the bid is made in accordance therewith; and (b) the bid is based upon the materials, equipment, systems, or services specified.

2. **SUBMISSION OF PROPOSALS:** The bid and other documents required to be submitted with the proposal shall be received via Hand Delivered or Mailed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the proposals and shall be identified as a “Sealed Proposal”. Proposals shall be delivered and deposited at the designated location prior to the time and date for receipt of proposals. Proposals received after the time and the date for the proposal opening will be returned unopened. The vendor shall assume full responsibility for timely delivery at the location designated for receipt of proposals.

3. **MODIFICATION OR WITHDRAWAL OF PROPOSALS:** Prior to the time and date designated for receipt of proposals, a proposal submitted may be modified or withdrawn by notice to the party receiving proposals at the place designated for receipt of proposals. Such notice shall be in writing over the signature of the vendor and shall be received prior to the designated time and date for receipt of proposals. A modification shall be worded so as not to reveal the amount of the original proposal.

4. **OPENING OF PROPOSALS:** Bids shall be opened by BCCD shortly after the time and date proposals are due.

5. **REJECTION OF PROPOSALS:** BCCD shall have the right to reject any and all bids, in whole or part; and to reject proposals not accompanied by data required by the bid documents; or to reject a bid, which is in any way incomplete or irregular.

6. **ACCEPTANCE OF PROPOSAL (AWARD):** It is the intent of BCCD to award a contract to the contractor who can demonstrate the necessary experience to complete the scope of work. BCCD shall have the right to waive informalities or irregularities in a bid received and to accept the bid, which in the BCCD’s judgment, is in the BCCD’s own interests.

7. **TAX EXEMPTION:** The Blair County Conservation District is exempt from federal and state taxes and will not pay or reimburse such taxes.

8. **PREVAILING WAGE:** Successful bidders will be required to comply with the PA Department of Labor and Industry, Prevailing Minimum Wage (Act422 of 1961, P.L. 987 amended) if the bid exceeds the threshold of $25,000.00.

9. **PAYMENT:** Upon satisfactory completion of the project, a lump sum payment shall be made within 30 days of receipt of an invoice.
10. **INSURANCE:** Before the issuance of a contract, and before commencing any Work, the Vendor shall furnish a certificate, satisfactory to BCCD, from each insurance company showing that the above insurance is in force, stating policy numbers, dates of expiration, and limits of liability thereunder, and further providing that the insurance will not be canceled or changed until the expiration of at least thirty (30) days after written notice of such cancellation. The Blair County Conservation District must be listed as an “Additional Insured” on all policies.

- **INSURANCE:** Vendor shall furnish proof of coverage of Commercial General Liability Insurance. The minimum amount of insurance coverage required is $1,000,000.

- **COMPREHENSIVE AUTOMOBILE LIABILITY INSURANCE:** Vendor shall furnish proof of Comprehensive Automobile Liability Insurance covering all owned, non-owned, and hired automobiles used in connection with the services agreed upon in this contract. The minimum amount of coverage required is $1,000,000.

- **WORKMAN’S COMPENSATION INSURANCE:** per Pennsylvania statutory limits.

11. **MISCELLANEOUS:** Discussions and interviews may be held with contractors under final consideration prior to selection for award; however, proposals may be accepted without such discussions or interviews. In the event that mutually acceptable terms cannot be reached within a reasonable period of time, BCCD reserves the right to undertake negotiations with the next most advantageous vendor without undertaking a new procurement process.

12. **SIGNING OF CONTRACT:** The contract **MUST** be signed and returned to BCCD along with insurance documentation before any transactions take place. Otherwise, the contract will be awarded to the next lowest responsible vendor.
## ATTACHMENT A

**DATE:** ______________

Spencer Run  
Streambank Stabilization Project  
Blair County, Pennsylvania

### BID SCHEDULE

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th># UNITS</th>
<th>EST. COST PER UNIT</th>
<th>TOTAL ESTIMATED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mobilization</td>
<td>Includes all necessary costs associated with mobilizing and demobilizing equipment to and from site.</td>
<td>LS</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Modified Mudsill</td>
<td>Includes all necessary costs associated with constructing the Modified Mudsill.</td>
<td>LF</td>
<td>125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Log Vane</td>
<td>Includes all labor and equipment necessary to construct the J-Hook structure as specified.</td>
<td>EA</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Water Control</td>
<td>Includes all labor and material necessary to control on-site water as needed and in accordance with the E&amp;S Plan as specified.</td>
<td>LS</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Rock and Bank Fill</td>
<td>Includes all labor and material necessary to fill the slope protection as specified.</td>
<td>TON</td>
<td>450</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Seeding</td>
<td>Includes all labor, material and equipment necessary to perform seeding of bank and all disturbed areas for the effective control of potential erosion.</td>
<td>AC</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Erosion Control</td>
<td>Includes labor, material and equipment to control erosion onsite as deemed necessary and as specified by the Erosion and Sedimentation Control Plan.</td>
<td>LS</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Plant Live Stakes</td>
<td>Includes labor, material and equipment to acquire, maintain, and plant live stakes as specified on the Plans.</td>
<td>SQ FT</td>
<td>1650</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL=**

---

**County, Pennsylvania**
SPENCER RUN
STREAMBANK STABILIZATION PROJECT
ALLEGHENY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA

PREPARED BY:
BluAcres LLC
Wetlands and Wildlife Habitat

PREPARED FOR:
BLAIR COUNTY CONSERVATION DISTRICT
1407 BLAIR STREET
HOLLIDAYSBURG, PENNSYLVANIA 16648

GENERAL NOTES:
1. THIS STREAM STABILIZATION PLAN HAS BEEN PREPARED FOR THE BLAIR COUNTY CONSERVATION DISTRICT FOR THE PURPOSE OF STABILIZING BANK EROSION ALONG SPENCER RUN.
2. BASEMAP WAS GENERATED FROM SITE SURVEYS DATED MARCH 24, 2017 AND INTERPOLATED WITH UDAAR CONTOURS FROM PA MAP PROGRAM, SURROUNDING SITE FEATURES (I.E., TREES, ROADS, AND STREAMS) APPROXIMATED USING PHAAR AERIAL IMAGERY.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION AND TO COMPLY WITH THE PROVISIONS OF PENNSYLVANIA ACT 187 (1986) BEFORE PERFORMING ANY EXCAVATION WORK.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO PRIVATE PROPERTY INCLUDING BUT NOT LIMITED TO FENCES AND PRIVATE ROADS RESULTING FROM ACTIVITIES ASSOCIATED WITH COMPLETING THIS PLAN. REPAIRS FOR ANY SUCH DAMAGES WILL BE MADE AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE PROPERTY OWNER.

STOP, BEFORE YOU DIG
CALL PA ONE CALL
DIAL 811 or 1-800-242-1776

COVER SHEET
SPENCER RUN STREAMBANK STABILIZATION
ALLEGHENY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA
NOTES:
1. Basemap generated from site survey dated March 31, 2017 and interpreted with LiDAR contours from the PAMAP program. Surrounding features, surrounding site features (e.g., trees, roads, and streams) approximated using PAMAP Aerial Imagery.

2. Horizontal and vertical control is based on NAD83, PA South State Plane Coordinates and NAVD98 Elevations. RTK GPS methods were used and the state plane coordinates and NAVD98 elevations of the base station "NAD-100" were determined by ORPS (On-Line Positioning User Service) holding the CORS Station "PS008" (PENN STATE UNIV., PUNXSUTAWNEY, and INDIANA). All coordinates are true state plane.

3. On-Site Control, Horizontal and Vertical:
   NAD-100 N: 406543.960 E: 1777319.34 Z: 1048.54’ NAD
   BM: N: 406545.110 E: 1777164.81 Z: 1045.68’ TOP HYDRANT

4. Bold items indicate the proposed construction items.
NOTES:
ROCK AND SOIL FILL SHALL BE CLEAN, NON-POLLUTING FILL WITH
SUFFICIENT SIZE TO PROMOTE VEGETATIVE GROWTH 8-12 IN.
LIFTS ENCASED IN CORN NET.
LEGEND

- LIVE STAKES / SEEDING AREA
- SEEDING AREA

PLANTING SPECIFICATIONS:

THE ROCK/SOIL FILL AREA SHALL BE PLANTED WITH THE FOLLOWING:

LIVE STAKES (1650 SQ FT)

LIVE STAKES SHALL BE 3 FOOT STAKES AND OF THE FOLLOWING SPECIES:

- STREAMBED WILLOW (Salix purpurea)
- RED OSIER DOGWOOD (Cornus sericea)
- BLACK WILLOW (Salix nigra)

SEEDING SPECIFICATIONS:

APPROX. SEEDING AREA (0.10 AC)

SEEDING APPLICATION RATES AND SPECIES
SEEDING TO OCCUR BETWEEN NOVEMBER 15 TO OCTOBER 15.

CONDUCT A SOIL TEST AND IF LIME OR FERTILIZER IS NEEDED FOLLOW THE APPLICATION RATE. ENSURE LIME SHOULD BE APPLIED AT A RATE OF 2 TON/ACRE AND FERTILIZER SHOULD BE APPLIED AT A RATE OF 300 LB OF 10-20-20 OR EQUIVALENT.

SEEDING AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2-3 BALE/1000 SQ FT OR 3 TONS/ACRE.

SEEDING MIX SHALL BE THE FOLLOWING:

- 50% ANNUAL RYEGRASS (Lolium multiflorum)
- 50% PERENNIAL RYEGRASS (Lolium perenne)

SEEDING RATE: 50 LBS/AC.

PLANTING METHOD: BY HAND OR MECHANICAL SPREADER
LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>MINIMUM STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVERAGE WIDTH STRENGTH</td>
<td>ASTM D-4894</td>
<td>60 LB/IN</td>
</tr>
<tr>
<td>GRASS TENSILE</td>
<td>ASTM D-4832</td>
<td>225 LB</td>
</tr>
<tr>
<td>PUNCTURE</td>
<td>ASTM D-4833</td>
<td>110 LB</td>
</tr>
<tr>
<td>MULLEN BURST</td>
<td>ASTM D-3786</td>
<td>350 PSI</td>
</tr>
<tr>
<td>UV RESISTANCE</td>
<td>ASTM D-4355</td>
<td>70%</td>
</tr>
<tr>
<td>AOS % RETAINED</td>
<td>ASTM D-475</td>
<td>80 SIEVE</td>
</tr>
</tbody>
</table>

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

A SUGGESTED MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE LOCATED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

A SUGGESTED MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HO OR EV WATERSHEDS. WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.
TABLE 4.2
COMPOST STANDARDS

<table>
<thead>
<tr>
<th>ORGANIC CONTENT MATTER</th>
<th>25% - 100% (DRIED WEIGHT BASIS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORGANIC PORTION</td>
<td>FERROUS AND ELONGATED</td>
</tr>
<tr>
<td>pH</td>
<td>5.5 - 8.5</td>
</tr>
<tr>
<td>MOISTURE CONTENT</td>
<td>30% - 60%</td>
</tr>
<tr>
<td>PARTICLE SIZE</td>
<td>308-505 PASS THROUGH 3/8&quot; SIEVE</td>
</tr>
<tr>
<td>SOLUBLE SALT CONTENT</td>
<td>5.0 ds/m (mmhos/cm) Maximum</td>
</tr>
</tbody>
</table>

TABLE 4.1
COMPOST SOCK FABRIC
MINIMUM SPECIFICATIONS

<table>
<thead>
<tr>
<th>MATERIAL TYPE</th>
<th>3 mt HOPE</th>
<th>5 mt HOPE</th>
<th>5 mt HOPE</th>
<th>MULTIFILAMENT POLYPROPYLENE (MPF)</th>
<th>HEAVY DUTY MULTIFILAMENT POLYPROPYLENE (MDMPF)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PHOTO-DEGRADABLE</td>
<td>PHOTO-DEGRADABLE</td>
<td>ISO-DEGRADABLE</td>
<td>PHOTO-DEGRADABLE</td>
<td>PHOTO-DEGRADABLE</td>
</tr>
<tr>
<td>SOCK DIAMETERS</td>
<td>12&quot;</td>
<td>18&quot;</td>
<td>18&quot;</td>
<td>12&quot;</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>

TENSILE STRENGTH

<table>
<thead>
<tr>
<th></th>
<th>26 psi</th>
<th>26 psi</th>
<th>44 psi</th>
<th>202 psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULTRAVIOLET STABILITY</td>
<td>235 AT 1000 hr.</td>
<td>235 AT 1000 hr.</td>
<td>1050 AT 1000 hr.</td>
<td>1050 AT 1000 hr.</td>
</tr>
<tr>
<td>MINIMUM FUNCTIONAL LONGEVITY</td>
<td>6 MONTHS</td>
<td>9 MONTHS</td>
<td>6 MONTHS</td>
<td>1 YEAR</td>
</tr>
</tbody>
</table>
DESCRIPTION:

The Biô-MAT 70 blanket is woven from machine twisted bristle cor. times. The BEST quality cor. fiber. This 100% biodegradable, strong and durable blanket provides higher erosion resistance while supporting growth and development of vegetation. These semi-permanent mats have functional field longevity of 4-6 years. If the vegetation fails to establish, the open weave in the mat allows seeding over the mat. Biô-MAT 70 blankets are manufactured to conform to the following physical properties.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>Biô-MAT 70</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT</td>
<td>ASTM D 3776</td>
<td>2.3 oz/SY (78g/m²)</td>
</tr>
<tr>
<td>WIDE WIDTH TENSILE STRENGTH WET</td>
<td>ASTM D 4595</td>
<td>1488 lbs/ft (21.7 kN/m)</td>
</tr>
<tr>
<td>Machine Direction</td>
<td></td>
<td>1032 lbs/ft (15.1 kN/m)</td>
</tr>
<tr>
<td>CROSS DIRECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WIDE WIDTH TENSILE STRENGTH DRY</td>
<td>ASTM D 4595</td>
<td>1740 lbs/ft (25.4 kN/m)</td>
</tr>
<tr>
<td>Machine Direction</td>
<td></td>
<td>1176 lbs/ft (17.2 kN/m)</td>
</tr>
<tr>
<td>CROSS DIRECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELONGATION AT FAILURE WET</td>
<td>ASTM D 4595</td>
<td>38%</td>
</tr>
<tr>
<td>Machine Direction</td>
<td></td>
<td>25%</td>
</tr>
<tr>
<td>CROSS DIRECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPEN AREA</td>
<td>CALCULATED</td>
<td>48%</td>
</tr>
<tr>
<td>THICKNESS</td>
<td>ASTM D 1777</td>
<td>0.35 inch (9 mm)</td>
</tr>
<tr>
<td>RECOMMENDED SHEAR STRESS</td>
<td>4.54 lbs/sq.ft. (215N/sq.m.)</td>
<td></td>
</tr>
<tr>
<td>RECOMMENDED FLOW</td>
<td>12 fps (3.7 m/s)</td>
<td></td>
</tr>
<tr>
<td>RECOMMEND SLOPE</td>
<td>1:1</td>
<td></td>
</tr>
<tr>
<td>MINIMUM THINSE COUNT PER FOOT</td>
<td>27 x 16</td>
<td></td>
</tr>
</tbody>
</table>

**STANDARD CONSTRUCTION DETAIL #11-1**

**EROSION CONTROL BLANKET INSTALLATION**

**NOT TO SCALE**

**NOTES:**

Seed and soil amendments shall be applied according to the rates in the plan drawings prior to installing the blanket.

Provide anchor trench at toe of slope in similar fashion as at top of slope.

Slope surface shall be free of rocks, clogs, sticks, and grass.

Blanket shall have good continuous contact with underlying soil throughout entire length. Lay blanket loosely and stake or staple to maintain direct contact with soil. Do not stretch blanket.

The blanket shall be staked in accordance with the manufacturer's recommendations.

**MAINTENANCE:**

Blanketed areas shall be inspected weekly and after each runoff event until perennial vegetation is established to a minimum uniform 70% coverage throughout the blanketed area. Damaged or displaced blankets shall be restored or replaced within 4 calendar days.

**BluAcres, LLC**

**Wetlands and Wildlife Habitat**

**EROSION AND SEDIMENT CONTROL DETAILS**

**Spencer Run Streambank Stabilization**

**Allegheny Township**

**Blair County, Pennsylvania**

**3/19/2019**

**9 of 12**
LIVE STAKES DETAIL

ITEM NO. 4804-XXXX
N.T.S.

NOTES:

1. CREATE PILOT HOLE BY DRIVING A 3 FOOT SECTION OF REBAR INTO EMBANKMENT SLOPE.

2. REMOVE REBAR AND DRIVE LIVE STOUT STAKES INTO PILOT HOLE A MINIMUM OF 28" INTO GROUND WITH NO MORE THAN 8" EXPOSED ABOVE GROUND.

3. LIVE STAKES SHALL HAVE A DIAMETER OF 1.0 TO 1.5 INCHES.

4. SPACE LIVE STOUT STAKES 3 FEET APART.
GENERAL CONSERVATION NOTES AND SPECIFICATIONS

INTENT OF CONSERVATION PROGRAM
The intent of this Program is to prevent accelerated erosion of the exposed site soils during the construction and permanent life periods of the project. The Program requires retention of sediments on the construction site to minimize the impact of erosion disturbance on existing streams and adjacent property owners. These objectives will be achieved by minimizing the exposure time of potentially erosive soils to runoff and installation of the temporary and permanent conservation practices in proper sequence with construction. The intent of this Program should be understood and implemented through the local, state, and federal agencies. Various construction trades are approved by this Program and directed to prevent undue disturbance of prepared and protected surfaces.

SURFACE STABILIZATION CRITERIA
All graded soil surfaces, including stockpiles, are subject to erosion and shall be stabilized immediately either as temporary or permanent cover in accordance with specifications below. Crushed stone on pavement substrates is considered adequate protection. Disturbed areas which remain unclassified for more than 30 days shall be re-eroded within 1 year may be seeded with a quick growing temporary seeding mixture and mulched at a rate of 2-3 Bales/1000 SF or 3 Tons/Acre. Disturbed areas which are directly adjacent to a stream or lake shall not be re-eroded within 1 year must be seeded with a permanent seed mixture and mulched at a rate of 2-3 Bales/1000 SF or 3 Tons/Acre. During non-germination periods, which shall be applied at a rate of 2-3 Bales/1000 SF or 3 Tons/Acre. Germination periods shall be from March 15th to October 15th. At the beginning of the next germination period, mulched areas shall be covered, fertilized, and seeded with either a temporary or permanent seed mixture, and reseeded at a rate of 2-3 Bales/1000 SF or 3 Tons/Acre.

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:
A. TEMPORARY COVER ON DISTURBED AREAS
Disturbed areas which are not at finished grade and which will be reseeded within one year may be seeded and mulched with a temporary cover. Preparation of the surface, fertilization, and seeding with either annual or winter rye grass shall be done in compliance with Pennsylvania DEP and the county Conservation District (DC) standards for temporary cover for critical areas. Ground limestone shall be applied at the rate of 10 lbs/1000 SF per acre. Fertilizer for temporary stabilization shall be applied at a rate of 50-50-50 per acre. The fertilizer and lime shall be worked into the soil to a depth of four (4) inches prior to seeding. Annual rye grasses shall be applied at a rate of 12 lbs/1000 SF or 3 tons per acre. 2-3 Bales/1000 SF or 3 Tons/Acre with hay straw at a rate of 2-3 Bales/1000 SF or 3 Tons/Acre and non-asphaltic emulsion, in accordance with the CCO standard for "mulching.

B. PERMANENT COVER ON DISTURBED AREAS
All areas in critical areas shall be covered and mulched with a permanent cover. Areas should be seeded with at least 2-3 Bales/1000 SF or 3 Tons/Acre. Ground limestone shall be applied at the rate of 10 lbs/1000 SF per acre or 6-8-12 NPK. Fertilizer for permanent stabilization shall be applied at a rate of 20-20-20 at the rate of 2-3 Bales/1000 SF or 3 Tons/Acre. New seedings on slopes and within organic drainage channels will be similarly mulched with straw, and fed from the seed beds until vegetation is established.

MNTAINANCE OF TEMPORARY SEDIMENT CONTROL STRUCTURES
Maintenance of all temporary sediment control structures shall be in accordance with these plans. Until the site is stabilized, permanent sediment control structures shall be maintained properly. Maintenance includes inspections of all erosion and sedimentation controls after each storm event and on a weekly basis. All weekly inspections reports are to be kept on site. All maintenance work must be performed immediately.

EROSION AND SEDIMENT CONTROL NOTES
Spencer Road Bridge
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EROSION AND SEDIMENT CONTROL NOTES

1) All erosion and sediment control measures shall be consistent with Chapter 102 and PADEP’s Erosion and Sediment Pollution Control Program Manual (most recent version).
2) These plans reflect the minimum erosion requirements based on anticipated and proposed activities. Owner/applicant or his/her duly-authorized representative is responsible for implementation of the erosion control measures contained in this plan and any other processes that may be necessary for compliance with the prevailing regulations.
3) Ground disturbance activities shall be minimized to the extent practical and all areas shall be stabilized promptly.
4) All erosion measures shall be inspected weekly, at a minimum, and following all storm events. Defective, damaged or otherwise insufficient erosion measures shall be replaced without delay. Weekly inspection reports shall be kept on site.
5) All temporary and permanent soil stabilization to be conducted in accordance with PA DEP and the County Conservation District (CCD) Standards.
6) Temporary seeding of any disturbed areas or stockpiles (except properly covered or managed) shall be conducted within 4 days of disturbance. Temporary seeding to consist of 40 lbs/ac annual ryegrass, 1 ton/ac lime, 1,000 lbs/ac 0-5-5 fertilizer and 3 tons/ac hay or straw mulch.
7) Permanent seeding shall be conducted within 4 days of disturbance for those areas at final grade.
8) All areas to be inspected and maintained until stabilized. Erosion control measures to be removed when 70% uniform vegetative coverage is established.
9) This EAS plan is to be kept on-site at all times. Per governing regulations.
10) No changes to this EAS control plan shall be permitted unless authorized and approved by the County Conservation District.

TEMPORARY MEASURES – Compost filter sock, pump bypass, coffee beans, erosion control blanket and rock construction entrance are necessary and shall be installed according to the erosion control details. All temporary measures shall be properly maintained during the life of the project.

PERMANENT MEASURES – All areas that are disturbed within the limit of disturbance shall be permanently vegetated according to the planting plan and permanent seeding specifications.

ALL SLOPES 3:1 OR GREATER SHALL BE SEEDED ACCORDING TO THE PERMANENT SEED MIXTURE AND STABILIZED WITH EROSION CONTROL BLANKET.

PERMANENT SEED MIXTURE

All areas disturbed during construction and at final grade shall be seeded within four days of disturbance according to the following specification and rate:

ERINMX-104 or equivalent (1-800-873-3321)
SDT ANNUAL RYEGRASS (Lolium multiflorum)
SDT PERENNIAL RYEGRASS (Lolium perenne)
At a rate of 50 lbs/acre.

SEQUENCE OF CONSTRUCTION:

1) All earth disturbance activities shall proceed in accordance with the following sequence. Each stage shall be completed and immediately stabilized before any of the following stages are initiated: clearing, grubbing, and topsloping. Stripping shall be limited to only those areas described in each stage.
2) At least 3 days prior to construction, the contractor shall place a PA 1 call to have all utilities marked out prior to construction.
3) At the end of each workday, all disturbed areas must be stabilized with seeding/mulch and erosion control mulch blankets for slopes steeper than 3:1. Areas at final grade must be inspected at the end of each workday throughout construction. Any erosion must be corrected immediately.
4) Install temporary sediment control measures at locations shown on the plan view, as necessary for compliance with Chapter 102.
5) Stage earthwork activity to minimize erosion, complete upstream construction and excavation work prior to downstream work.
6) All work shall be done during low flow conditions, avoiding periods during or immediately following heavy precipitation.
7) Equipment work will be done from the streambank, where possible.
8) Install log vanes and modified mudsill and grade the streambanks in accordance with the plans.
9) Salvaged streambank material and rock/soil shall be used for grading slopes.
10) Plant live stakes according to the plans.
11) Seed and stabilize the work area.

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Wetlands and Wildlife Habitat Management
913-665-4300
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