



LAWRENCE COUNTY
CONSERVATION DISTRICT

Conserving Natural Resources for Our Future

January 27, 2010
North Beaver Township
Attn: Supervisors
861 Mt. Jackson Road
New Castle, PA 16102

Re: Erosion and Sediment Control Plan Review
Wampum Road Bridge No. 2 Replacement
North Beaver Twp.
Lawrence County

Dear Supervisors,

The District has completed its review of the Erosion and Sediment Control Plan for the above referenced project.

The plan adequately addresses erosion and sediment pollution control and meets the minimum requirements of the Department of Environmental Protection's (DEP) rules and regulations, Chapter 102, Erosion and Sediment Control and The Clean Streams Law, provided all Best Management Practices (BMPs) are properly implemented and maintained until the project has been permanently stabilized.

This acknowledgement does not relieve the applicant from applying for and obtaining any and all additional permits or approvals from local, state or federal agencies for the construction activity described.

Please notify the District at least seven working days prior to commencing earth disturbance activities. This plan must be fully implemented and available on-site at all times.

If you have any questions, you may contact this office at the above number.

Sincerely,

Becca M. Naber
District Technician

Enclosures

cc: CD file
Bill Humphrey, Frank B. Taylor Engineering
Dep NNRO





DEPARTMENT OF THE ARMY
PITTSBURGH DISTRICT, CORPS OF ENGINEERS
WILLIAM S. MOORHEAD FEDERAL BUILDING
1000 LIBERTY AVENUE
PITTSBURGH, PA 15222-4186

August 26, 2011

REPLY TO

Operations Division
Regulatory Branch
2011-279

North Beaver Township
C/o William Humphrey
Frank B. Taylor Engineering
149 Taylor Drive
New Castle, Pennsylvania 16101

Dear Mr. Humphrey:

I refer to your permit application, received in this office on April 28, 2011, regarding your proposal replace the Wampum No. 2 Bridge located on Wampum Road (T-395), Lawrence County, Pennsylvania. Temporary impacts to Hickory Run include a causeway and stream encroachment (crushed rock/clean material) to be used during construction of the pier (10 feet x 80 feet) and far abutment (12 feet x 60 feet). Permanent impacts to Hickory Run will include the newly constructed far abutment (50 feet), and 40 feet of rip rap downstream of the far abutment. It is also noted that the pier and near abutment are not within the Ordinary High Water Mark therefore no permit is required for such activities.

It is our understanding that the Pennsylvania State Historic Preservation Officer has determined the existing bridge to be eligible for inclusion on the National Register of Historic Places. Subsequently, a Letter of Agreement (LOA) has been signed by the Federal Highway Administration, the Pennsylvania State Historic Preservation Officer, and the Pennsylvania Department of Transportation regarding this project. As a special condition of this permit, the LOA (attached) must be implemented.

Furthermore, no work shall occur between March 1 and June 15. The Pennsylvania Fish & Boat Commission manages Hickory Run as a stocked trout fishery and recommends no in-stream work between these dates. This special condition must be followed for this permit to be valid.

Our review and agency coordination has determined that the proposed project qualifies for Federal authorization by PA SPGP-4. The applicant is authorized to perform the work in accordance with the terms and conditions outlined in the enclosure.

This verification is valid for the length of the Pennsylvania Department of Environmental Protection (PADEP) permit, not to exceed three years, or until the PASPGP-4 expires (June 30, 2016), is modified, reissued, or revoked. You must remain informed of changes to the PASPGP-4. We will issue (a) public notice(s) announcing the changes as they occur.

Activities authorized under the PASPGP-4 that have commenced construction or are under contract to commence construction, will remain authorized provided the activity is completed within 12 months of the date of the PASPGP-4's expiration (June 30, 2016), modification, or revocation; or until the expiration date of the project specific verification, whichever is less.

If you have any questions, please contact Alex Kostra at (412) 395-7141 or via e-mail at Alexander.A.Kostra@usace.army.mil and reference file number 2011-279 in all correspondence with our office concerning this project.

Sincerely,



Nancy Mullen
Chief, Northern Section
Regulatory Branch

Enclosure

Copies Furnished

Karl Gross
Pennsylvania Department of Environmental Protection
230 Chestnut Street
Meadville, Pennsylvania 16335

LETTER OF AGREEMENT
BETWEEN
THE FEDERAL HIGHWAY ADMINISTRATION, THE PENNSYLVANIA STATE HISTORIC
PRESERVATION OFFICER
AND THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
REGARDING IMPLEMENTATION OF THE PROPOSED
WAMPUM ROAD OVER HICKORY RUN BRIDGE REPLACEMENT
NORTH BEAVER TOWNSHIP, LAWRENCE COUNTY PENNSYLVANIA

WHEREAS, the Federal Highway Administration (FHWA), the Advisory Council on Historic Preservation (ACHP), the State Historic Preservation Officer (SHPO) and the Pennsylvania Department of Transportation (PennDOT) have signed a Programmatic Agreement (PA) regarding implementation of the Federal Aid Highway Program in Pennsylvania (March 18, 2010); and

WHEREAS, pursuant to Stipulation III.B.7 of the PA, PennDOT has determined that one National Register of Historic Places (NR) eligible property is located within the APE: the NR eligible Wampum Road over Hickory Run Bridge; and

WHEREAS, pursuant to Stipulation III.B.10 of the PA, PennDOT has determined that the Project will have an adverse effect on the Wampum Road over Hickory Run Bridge; and

NOW, THEREFORE, the FHWA, SHPO, and PennDOT agree that the following stipulation will be completed by PennDOT in order to mitigate the adverse effects of the Project:

1. PennDOT will record the Wampum Road over Hickory Run Bridge to state level standards. The historic narrative will include a discussion of the reinforced concrete thru arch type within Pennsylvania and across the nation. The recordation will also employ photogrammetry to augment the information. The recordation will be completed within 5 years of the execution of this agreement. If this recordation is not complete within 5 years the parties to this agreement shall meet to develop a new agreement.

This letter agreement does not supercede other provisions of the PA.

FEDERAL HIGHWAY ADMINISTRATION

BY: [Signature] DATE: 7/8/11

PENNSYLVANIA STATE HISTORIC PRESERVATION OFFICER

BY: [Signature] DATE: 6/24/2011

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

BY: [Signature] DATE: 6/17/11

Approved as to Legality and Form

By: [Signature] June 30, 2011
For Chief Counsel
[Signature] June 4, 2011

Commonwealth of Pennsylvania
Department of Environmental Protection
Northwest Regional Office
Watershed Management Program - Permitting and Technical Services Section

WATER OBSTRUCTION AND ENCROACHMENT PERMIT

The Department of Environmental Protection ("Department"), established by the Act of December 3, 1970, P.L. 834 (71 P.S. §§510.1 et seq.) and empowered to exercise certain powers and perform certain duties under and by virtue of the Act of November 26, 1978, P.L. 1375, as amended by the Act of October 23, 1979, P.L. 204 (32 P.S. §§693.1 et seq.) known as the "Dam Safety and Encroachments Act"; Act of October 4, 1978, P.L. 851 (32 P.S. §§679.101 et seq.) known as the "Flood Plain Management Act"; Act of June 22, 1937, P.L. 1987, (35 P.S. §§691.1 et seq.), known as "The Clean Streams Law"; and the Administrative Code, Act of April 9, 1929, P.L. 177, as amended, which empowers the Department to exercise certain powers and perform certain duties by law vested in and imposed upon the Water Supply Commission of Pennsylvania and the Water and Power Resources Board, hereby issues this permit to:

North Beaver Township
861 Mt. Jackson Road
New Castle, PA 16102

giving its consent to remove an existing single span concrete arch structure and to construct and maintain a 25.38 ft out to out prestressed concrete box beam bridge having 2 clear spans of 54.25 ft supported by a center pier and abutments with an underclearance of 13.54 ft a skew of 75° across Hickory Run along T-395 Wampum Road in North Beaver Township, Lawrence County approximately ½ mile South of its intersection with S.R. 18.

The issuance of this permit also constitutes approval of a Water Quality Certification under Section 401 of the Federal Water Pollution Control Act [33 U.S.C.A. 1341(a)].

This permit is issued in response to an application filed with the Department of Environmental Protection on April 7, 2011, and with the understanding that the work shall be performed in accordance with the maps, plans, profiles and specifications filed with and made a part of the application on April 7, 2011, April 15, 2011, June 24, 2011, and July 12, 2011 subject, however, to the provisions of the Dam Safety and Encroachments Act, the Flood Plain Management Act, The Clean Streams Law, the Administrative Code, the Rules & Regulations promulgated thereunder and the following conditions and restrictions. **If the work authorized by this permit is not completed on or before December 31, 2015, this permit, if not previously revoked or specifically extended by the Department in writing, shall become void without further notification.**

1. The permittee shall sign this permit thereby expressly certifying the permittee's acceptance of, and agreement to comply with, the terms and conditions of this permit. The permittee shall return a signed copy of this permit to the Department. This permit will not be effective until the signed copy is received by the Department;

2. The Department, in issuing this permit, has relied on the information and data which the permittee has provided in connection with his permit application. If, subsequent to the issuance of this permit, such information and data prove to be false, incomplete or inaccurate, this permit may be modified, suspended, or revoked, in whole or in part, and the Department may, in addition, institute appropriate legal proceedings;

3. This permit does not give any property rights, either in real estate or material, nor any exclusive privileges, nor shall it be construed to grant or confer any right, title, easement, or interest in, to, or over any land belonging to the Commonwealth of Pennsylvania; neither does it authorize any injury to private property or invasion of private rights, nor any infringement of Federal, State, or Local laws or regulations; nor does it obviate the necessity of obtaining Federal assent when necessary;

4. The work shall at all times be subject to supervision and inspection by representatives of the Department, and no changes in the maps, plans, profiles, and specifications as approved shall be made except with the written consent of the Department. The Department, however, reserves the right to require such changes or modifications in the maps, plans, profiles, and specifications as may be considered necessary. The Department further reserves the right to suspend or revoke this permit if in its opinion the best interest of the Commonwealth will be subserved thereby;

5. This permit authorizes the construction, operation, maintenance and normal repair of the permitted structures conducted within the original specifications for the water obstruction or encroachment, and in accordance with the regulations of the Department and term and conditions of this permit. Any repairs or maintenance involving modifications of the water obstruction or encroachment from its original specifications, and any repairs or reconstruction involving a substantial portion of the structure as defined by regulations of the Department shall require the prior written approval and permit of the Department;

6. All construction debris, excavated material, brush, rocks, and refuse incidental to this work shall be removed entirely from the stream channel and placed either on shore above the influence of flood waters, or at such dumping ground as may be approved by the Department;

7. There shall be no unreasonable interference with the free discharge of the river or stream or navigation during construction;

8. If future operations by the Commonwealth of Pennsylvania require modification of the structure or work, or if, in the opinion of the Department of Environmental Protection, the structure or work shall cause unreasonable obstruction to the free passage of floodwaters or navigation, the permittee shall, upon due notice, remove or alter the structures, work or obstructions caused thereby, without expense to the Commonwealth of Pennsylvania, so as to increase the flood carrying capacity of the channel or render navigation reasonably free, easy, and unobstructed, in such manner as the Department may require. No claim shall be made against the Commonwealth of Pennsylvania on account of any such removal or alteration;

9. The permittee shall notify the Department, in writing, of the proposed time for commencement of work at least 15 days prior to the commencement of construction;

10. If construction work has not been completed within the time specified in this permit and the time limit specified in this permit has not been extended in writing by the Department or if this permit has been revoked for any reason, the permittee shall, at his own expense and in a manner that the Department may prescribe, remove all or any portion of the work as the Department requires and restore the watercourse and floodplain to their former condition;

11. The permittee shall fully inform the engineer or contractor, responsible for the supervision and conduct of the work, of the terms, conditions, restrictions and covenants of this permit. Prior to the commencement of construction, the permittee shall file with the Department in writing, on a form provided by the Department, a statement signed by the permittee and an individual responsible for the supervision or conduct of the work acknowledging and accepting the general and special conditions contained in this permit. Unless the acknowledgment and acceptance have been filed, this permit is void. A copy of this permit and the acknowledgment shall be available at the work site for inspection upon request by an officer or agent of the Department or another Federal, State, County, or municipal agency;

12. The permittee shall operate and maintain the structure or work authorized herein in a safe condition in accordance with the permit terms and conditions and the approved maps, plans, profiles, and specifications;

13. This permit may not be transferred without prior written approval from the Department, such approval being considered upon receipt of the properly executed "Application of Transfer of Permit" form;

14. If and when the permittee desires to discontinue use or abandon the activity authorized herein, he must remove all or part of the structure or work authorized and take other actions as are necessary to protect safety and the environment in accordance with a permit issued by the Department;

15. If the use of explosives in any waterways is required, the permittee shall secure the prior written permit from the Pennsylvania Fish and Boat Commission, pursuant to the Pennsylvania Fish and Boat Code, Act 1980-175 Title 30 Pennsylvania Consolidated Statutes, Section 2906. Requests should be directed to the Pennsylvania Fish and Boat Commission, Division of Environmental Services, 450 Robinson Lane, Bellefonte, PA 16823-9620, telephone 814-359-5140;

16. Permittee shall implement and monitor an Erosion and Sedimentation Control Plan prepared in accordance with Chapter 102 so as to minimize erosion and prevent excessive sedimentation into the receiving watercourse or body of water;

17. The project site shall at all times be available for inspection by authorized officers and employees of the Pennsylvania Fish and Boat Commission. Prior to commencement and upon completion of the work authorized by this permit, the permittee shall notify the Pennsylvania Fish and Boat Commission's Northwest Region office at 814-337-0444;

18. The project site shall at all times be available for inspection by authorized officers and employees of the County Conservation District. Prior to commencement and upon completion of the work authorized by this permit, the permittee shall notify the Lawrence County Conservation District at 724-652-4512;

19. **Work may not commence until a signed copy of the Acknowledgement of Appraisal of Permit Conditions is received by the Department.** Any work authorized by this permit conducted prior to the Department's receipt of the signed Acknowledgement of Appraisal of Permit Conditions is a violation of the Dam Safety and Encroachments Act and the Clean Streams Law, and you may be subject to fines and penalties pursuant to those Acts.

20. SPECIAL CONDITIONS

- A. Streambank disturbance shall be kept to a minimum and stabilized with indigenous vegetation within 20 days of final earthmoving to prevent erosion and provide cover, shading, and food source for aquatic life.
- B. Since Hickory Run is a stocked trout stream, no work shall be done in the stream channel between March 1 and June 15 without the prior written approval of the Pennsylvania Fish & Boat Commission.

- C. The permittee shall maintain the structures herein authorized free of flood debris and silt deposits. When removal of silt and debris is necessary, it shall be accomplished in accordance with the Department's "Standards for Channel Cleaning at Bridges and Culverts," a copy of which is attached and made part of this permit.

Future bridge and culvert rehabilitation and maintenance work is subject to the following conditions:

1. No reduction of span, underclearance or waterway opening of the structure will occur.
 2. No roadway grade will be altered, other than that required for normal resurfacing.
 3. No substantial modification of the structure from its original specifications.
 4. When work involves repairs to piers, footers or wingwalls, the construction area should be enclosed wherever possible within a cofferdam of sandbags or other non-polluting material.
 5. The placement of riprap, where necessary, shall not constrict the normal channel width nor shall it interfere with any navigation on the stream or migration of fish.
- D. A regularly scheduled inspection of the structures shall be made to provide for continued operation and maintenance during the lifetime of the facility.
- E. The causeway and/or cofferdam must be constructed of rock, free of fines and silts, or other non-erodible material.
- F. This permit also authorizes the temporary installation of cofferdams and a partial width causeway which upon completion of the project shall be completely removed and the area restored and stabilized.
- G. Demolition or excavated materials shall not be deposited in any wetland, watercourse, floodway, floodplain or other body of water without applying for and receiving the written permit of the Department of Environmental Protection.
- H. Water pumped from the construction area shall be diverted into a sediment bag and/or device, or in an appropriate area to prevent sediment from being discharged into any waters of the Commonwealth.

- I. Project construction shall take place when the stream is at low flow.
- J. The permittee and his agents will be watchful for archaeological artifacts and will assure the ground disturbance activities will cease immediately upon discovery of archaeological artifacts, and immediately notify the DEP Regional Office and the Pennsylvania Historical and Museum Commission at P. O. Box 1026, Harrisburg, PA 17120-10261, telephone 717-783-8947.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Lori A. Boughton

Lori A. Boughton
Regional Manager
Watershed Management

AUG 15 2011

Date

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT
DIVISION OF WATERWAYS, WETLANDS AND STORMWATER MANAGEMENT

STANDARDS FOR CHANNEL CLEANING AT BRIDGES AND CULVERTS

1. A work schedule which includes a written description of each structure, a description of the proposed work and a map showing each project location shall be submitted concurrently to the Department of Environmental Protection, the Pennsylvania Fish and Boat Commission, and the Conservation District of the county in which the project is located not less than 30 days in advance of initiating work. The work schedules shall be submitted to the appropriate Department of Environmental Protection Regional Office listed on Exhibit B and to the appropriate Pennsylvania Fish and Boat Commission Regional Headquarters listed on Exhibit A.

Addresses for County Conservation Districts may be obtained from the Department of Environmental Protection or may be found in local telephone directories.
2. The owner shall notify the appropriate Pennsylvania Fish and Boat Commission's Regional Headquarters (Exhibit A) and the appropriate County Conservation District 10 days in advance of starting work each time at any location identified in the proposed work schedule. Notification by postcard is suggested.
3. The work schedule shall be in the possession of the person in charge on the site whenever work is being performed. The project description and limits must be clearly indicated on the work schedule.
4. No work may be done in stocked trout streams between March 1 and June 15 except for emergencies. Emergency work must be approved by the Department of Environmental Protection in consultation with the Pennsylvania Fish and Boat Commission.
5. Work in the stream channel shall be limited to 50 feet upstream and 50 feet downstream from the bridge or culvert. In addition, work should be accomplished by working from the stream banks. In those cases where this is not possible, the operation of equipment in the water is to be minimized.
6. Channels may be excavated to a width no greater than the width of the normal low flow channel immediately upstream and downstream of the bridge or culvert. The remainder of the channel width shall be maintained as an elevated flood plain and may be excavated only to six inches above water level at the time of work.
7. Material removed shall be disposed of at a location which precludes re-entry into the stream and in a manner which does not obstruct flood flows in the floodway. If material removed from the stream is needed for backfill or bank restoration, it should be faced to the ordinary high water level with riprap suitably sized according to the anticipated stream velocity. All disturbed areas above the level of the riprap must be stabilized or seeded. Excess excavated material shall not be deposited in any wetland, river, lake, water course, floodway, or other regulated waters of the Commonwealth without first applying for and receiving the written permit of the Department of Environmental Protection.
8. Tree and shrub growth on stream banks shall not be disturbed unless absolutely necessary.
9. If an access road is constructed, stormwater diversion shall be provided to assure that water will not flow along the access road directly into the stream or the work area.

10. Erosion and sediment pollution control measures must be properly implemented and closely monitored to minimize erosion and prevent sediment from entering the stream channel.
11. Where it is necessary for construction equipment to cross the stream, a temporary stream crossing shall be provided by the permittee for this purpose unless the stream flow is shallow and the stream bed consists of solid or nonerodible material. The temporary crossing must be authorized by and comply with the conditions of General Permit BDWM-GP-8, Temporary Road Crossings. Any fill material provided for temporary crossings shall be clean granular material and entire fill shall be kept to an absolute minimum elevation to avoid obstructing flood flows and creating backwater flooding condition upstream. The owner is responsible for any damages resulting from the obstruction of flood flows by this temporary stream crossing. Upon completion of the project, the temporary crossing shall be removed in its entirety and the disturbed areas restored to their original condition. Copies of, and authorization to use, BDWM-GP-8 are available from the Department offices listed on Exhibit B.
12. The Department shall have the discretion to require a separate individual permit application to be submitted for any project or portion thereof, which the Department determines to have a potential significant effect on safety or protection of life, health, property, or the environment.
13. Any repairs or maintenance involving modification of the structure from its original specifications and any repairs or reconstruction or replacement involving a substantial portion of the structure shall require the prior written permit of the Department.

EXHIBIT A

FISH AND BOAT COMMISSION'S OFFICES

Headquarters Address

County Responsibility

NORTHWEST REGION

Regional Manager
11528 Highway 98
Meadville, PA 16335-7320
814-337-0444

Butler, Clarion, Crawford, Erie,
Forest, Lawrence, Mercer, Venango
and Warren

SOUTHWEST REGION

Regional Manager
236 Lake Road
Somerset, PA 15501-1644
814-445-8974

Allegheny, Armstrong, Beaver,
Cambria, Fayette, Greene, Indiana,
Somerset, Washington and
Westmoreland

NORTHCENTRAL REGION

Regional Manager
P.O. Box 5306
Pleasant Gap, PA 16823
814-359-5250

Cameron, Centre, Clearfield,
Clinton, Elk, Jefferson, Lycoming,
McKean, Montour, Northumberland,
Potter, Snyder, Tioga and Union

SOUTHCENTRAL REGION

Regional Manager
1704 Pine Road
Newville, PA 17241
717-486-7087

Adams, Bedford, Blair, Cumberland,
Dauphin, Franklin, Fulton,
Huntingdon, Juniata, Lebanon,
Mifflin, Northumberland (Mahatango
Creek in Jordan and Lower Mahanoy
Townships only) Perry and York

SOUTHEAST REGION

Regional Manager
P.O. Box 9
Elm, PA 17521
717-626-0228

Berks, Bucks, Chester, Delaware,
Lancaster, Lehigh, Montgomery,
Northampton, Philadelphia and
Schuylkill

NORTHEAST REGION

Regional Manager
P.O. Box 88
Sweet Valley, PA 18656
570-477-5717

Bradford, Carbon, Columbia,
Lackawanna, Luzerne, Monroe,
Pike, Sullivan, Susquehanna, Wayne
and Wyoming

DIVISION OF ENVIRONMENTAL SERVICES
450 Robinson Lane, Bellefonte, PA 16823-9620
814-359-5147

EXHIBIT B

DEPARTMENT OF ENVIRONMENTAL PROTECTION
REGIONAL OFFICES
PERMITTING AND TECHNICAL SERVICES SECTION

Regional Office

County Responsibility

Southcentral Regional Office
909 Elmerton Avenue, Second Floor
Harrisburg, PA 17110
(717) 705-4707

Adams, Bedford, Berks, Blair, Cumberland,
Dauphin, Franklin, Fulton, Huntingdon,
Juniata, Lancaster, Lebanon, Mifflin, Perry
and York

Southeast Regional Office
2 East Main Street
Norristown, PA 19401
(484) 250-5970

Bucks, Chester, Delaware, Montgomery and
Philadelphia

Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222-4745
(412) 442-4000

Allegheny, Armstrong, Beaver, Cambria,
Fayette, Greene, Indiana, Somerset,
Washington and Westmoreland

Northwest Regional Office
230 Chestnut Street
Meadville, PA 16335
(814) 332-6984

Butler, Clarion, Crawford, Elk, Erie, Forest,
Jefferson, Lawrence, McKean, Mercer,
Venango and Warren

Northeast Regional Office
2 Public Square
Wilkes-Barre, PA 18711-0790
(570) 826-2511

Carbon, Lackawanna, Lehigh, Luzerne,
Monroe, Northampton, Pike, Schuylkill,
Susquehanna, Wayne and Wyoming

Northcentral Regional Office
208 W. Third Street, Suite 101
Williamsport, PA 17701
(570) 327-3574

Bradford, Cameron, Centre, Clearfield,
Clinton, Columbia, Lycoming, Montour,
Northumberland, Potter, Snyder, Sullivan,
Tioga and Union

Central Office

Bureau of Watershed Management
Division of Waterways, Wetlands and Stormwater Management
P.O. Box 8775
Harrisburg, PA 17105-8775
717-787-6827

PENNDOT FORM EDD-VI



ENVIRONMENTAL DUE DILIGENCE (EDD) PHASE 1
VISUAL INSPECTION FORM

DATE: _____

SR/SEC: _____ COUNTY: _____

SEGMENT: _____

ECMS Project#: _____

ACTIVITY: _____

Location: _____

Visual Site Inspection (EDD-PHASE 1):

- *Stressed Vegetation* Yes [] No []
- *Staining on Soils* Yes [] No []
- *Staining Along PennDOT ROW
or on ROW Materials* Yes [] No []
- *Detectable Odors* Yes [] No []
- *Historic Fill* Yes [] No []

Comments: Attached additional pages or information as necessary.

Findings

Check one:

- Due diligence inspection performed and no visual evidence of a spill or release in project ROW, or borrow material entering the ROW was detected.
- Due diligence inspection performed and evidence of a spill or release in project ROW or borrow materials was detected. Phase 2 documents attached.
- Due diligence not applicable for this project. No project waste or fill required.

SIGNATURE: _____

PRINTED NAME: _____

TITLE: _____

ORGANIZATION: _____

*** FORM MUST BE MAINTAINED FOR A MINIMUM 5 YEARS IN THE PROJECT FILE***

PENNDOT EDD-VII

CLEAN FILL ENVIRONMENTAL DUE DILIGENCE [EDD] PHASE 2

DATE : _____

SR/SEC : _____ ECMS PROJECT # : _____

SEGMENT : _____

COUNTY : _____

ACTIVITY : _____

LOCATION : _____

A Phase 1 EDD was conducted for the above project and has identified evidence of a potential spill or release of regulated substances to the material. A Phase 2 EDD was performed.

Findings Check all that apply:

- 1. Based on the results of the Phase 2 investigations, it has been determined that **no** spill or release has occurred.
- 2. Based on the results of the Phase 2 investigations, there is documented evidence that a spill or release has occurred. **MUST COMPLETE ITEM 3**
- 3. If Item 2 is checked, Item 3 must be completed: The materials were Collected and sampled, in accordance with Appendix A of the PADEP Management of Fill Guidance, and
 - All regulated substances analyzed were reported as non-detectable. Form FP-001 must be completed along with the laboratory data, and provided to the property owner of the fill receiving site. Attach documentation.
 - The concentration of regulated substances detected were below the levels indicated in Table FP-1a/1b. Form FP-001 must be completed along with the laboratory data, and provided to the property owner of the fill receiving site. Attach documentation.
 - The concentration of regulated substances detected exceeds the levels in Table FP-1a/1b, but are below the levels indicated in Table GP-1a/1b. **The material is Regulated Fill** and must be approval by the PENNDOT Project Manager for use. If approved, PADEP General Permit WMGR096 must be obtained.
 - The concentration of regulated substances detected exceeds the levels in Table GP-1a/1b. **The materials are a waste.** Manage in accordance with applicable PA Solid Waste Management Act waste regulations. Attach documentation.

SIGNATURE : _____

PRINTED NAME : _____

TITLE : _____

ORGANIZATION : _____

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

NOTE: PERSONS INVOLVED IN PERFORMING EDD ACTIVITIES DO NOT NEED TO COMPLETE ALL STEPS OF THIS PROCESS. ONLY THOSE REQUIRED FOR PROPERLY CHARACTERIZING MATERIALS TO DETERMINE THEY ARE CLEAN FILL.

EDD Phase 2: STEP 1

- **Property ownership and use histories (deed reviews) for evidence of potential releases of wastes or chemicals from operations along the PennDOT ROW:**

Land and Property Use and Ownership Types Found (Check All That Apply):

- *Public* []
- *Private* []
- *Agricultural* []
- *Industrial* []
- *Commercial* []
- *Residential* []
- *Unused* []
- *Other* []

(Specify) _____

- **Searching environmental databases to determine the existence of potential impacts from any types of waste sites or related activities that exist or may have existed within the vicinity of the PennDOT ROW: (See Appendix 1)**

Databases Searched (Check All That Apply):

- *PennDOT* []
- *PA DEP* []
- *US EPA* []
- *Other* []

(Specify) _____

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

- **Conducting Interviews with All Relevant Parties to determine whether there had been any incidents that involved the release of substances directly to the PennDOT ROW:**

Interviews Conducted (Check All That Apply):

- *Former Property Owners* []
- *Current Property Owners* []
- *Former Land Owners* []
- *Current Land Owners* []
- *Fire Departments* []
- *Hazardous Materials Teams* []
- *Regulatory Agencies* []

(Specify) _____

- **Examination of aerial photographs in order to determine all land uses within the vicinity of the ROW:**

- Aerial Photographs Evaluated Yes [] No []; if “Yes”: refer to Appendix 1 for a Pennsylvania Department of Conservation and Natural Resources (PA DCNR) web site address for locating aerial photographs.

- **Examination of Sanborne or other fire insurance maps (*there is an additional cost for obtaining these*), in order to determine the existence of businesses that may have had any prior releases of **regulated substances** to the PennDOT ROW:**

- *Sanborne Fire Insurance Maps Examined* []; refer to Appendix 1 for web site address and telephone number for obtaining these maps;
- *Alternate Fire Insurance Maps Examined* []

(Specify) _____

EDD Phase 2 STEP 2:

- **Sampling and Analysis of PennDOT ROW Materials. If there is documented evidence of a spill or release, materials must be tested to determine if they are clean fill, **regulated fill, or** to characterize for proper waste disposal.**
- **Sampling and analysis should be conducted in accordance with Appendix A of the PA DEP Management of Fill Guidance: 258-2182-773 April 24, 2004.**

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

Pennsylvania Department of Environmental Protection (PA DEP) -Related Sites

- ***Pennsylvania Municipal and Residual Waste Facilities*** (web link: www.dep.state.pa.us/dep/deputate/airwaste/wm/mrw/Docs/Landfill_list.htm); (this website contains descriptions of all Pennsylvania landfills and incinerators (site name, permit number, host county, municipality, and contact person), all arranged by PA DEP region; for more information, click on either the facility name link (this leads to the PA DEP Environmental Facility Application and Compliance Tracking System (E-Facts) information about any specific facility) or contact person (e-mail) link).
- ***Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) Sites*** (web link: www.pasitefinder.state.pa.us/Site_listing.asp); this website contains information on all Act 2 sites that have been completed to date and updates that are made to the website when needed; click on the “more details” box associated with each site listed to obtain an interactive “E-Map” location/link for any site selected along with pertinent site information).
- ***Pennsylvania Hazardous Sites Cleanup Act (HSCA) Sites*** (web link: www.dep.state.pa.us/dep/deputate/airwaste/wm/hscp/docs/HSCA_Site_List.pdf); this website brings up a list of Pennsylvania HSCA sites that are arranged by PA DEP Region and shows municipality, county, number and dates for HSCA responses (interim and remedial levels), in addition to the site status (complete, listed on Pennsylvania Priority List, or de-listed).
- ***Pennsylvania Storage Tank Release and Active Storage Tank Sites*** (web link for storage tank releases: www.dep.state.pa.us/dep/deputate/airwaste/wm/Tanks/Document/tank_release.htm); this website contains a listing of all known storage tank incidents, and is arranged by PA DEP region (with each regional incident alphabetized by county); other details included are facility I. D. #, site name, address, city, county, incident description, confirmation date, type of incident (underground storage tank release (petroleum or hazardous material), or above-ground storage tank release; click on the “*Tank Incidents*” PDF or Adobe Acrobat Files to see the entire list of storage tank releases to date); web link for active storage tanks: www.dep.state.pa.us/dep/deputate/airwaste/wm/tanks/storagetanks/tank_listings.htm; click on the PA DEP Regional links to obtain Excel spreadsheet lists of storage tanks; information similar to what can be found on the storage tank release sites (except releases) can be found on the active storage tanks list).

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

United States Environmental Protection Agency (US EPA)-Related Sites

- ***Pennsylvania Comprehensive Environmental Response and Liability Act (CERCLA/Superfund) Sites*** (web link: www.epa.gov/reg3hwmd/super/PA/index.htm); this website contains information on all Pennsylvania Superfund sites, including name, address, city, county, zip code, US EPA I. D. number, and National Priority List (NPL) status; click on the site name to learn more about any Superfund site).
- ***Pennsylvania Resource Conservation and Recovery Act (RCRA) Facilities*** (web link: www.epa.gov/reg3wcmd/ca/pa.htm); this website contains information for all Pennsylvania RCRA sites, including facility name (click on this for more details), US EPA I. D. number, location (click on this link to get a map showing the site in relation to nearby roadways), environmental indicators (human exposure, groundwater – click on either of these to get the documentation sheets for either or both), and clean up status (initiated, remedy selected, complete with or without controls, construction completed)).
- ***Toxic Release Inventories (TRI)*** (web link: www.epa.gov/tri); this website is from the US EPA, and contains some background information about TRI is and how it is used; releases for specific areas can be found by entering a zip code on the title page; from here, the user can view the facilities that are part of the TRI for the zip code entered, and the extent of releases that have occurred over the years (starting with 1989, and continuing through 2001, the latest year for which TRI information is available); click on the name of any facility shown to obtain a detailed report about the releases and related activities associated with the facility (onsite, off-site, air emissions, water discharges, land disposal)).
- ***Comprehensive Federal and State Site Environmental Database (Enviro-Facts)*** (web link: www.epa.gov/enviro/index_java.html); this website contains information about virtually every type of environmental matter known, both in terms of facilities and the media affected by these facilities' collective activities; under the “**topics**” tab, click on the links related to “*waste*”, “*water*”, “*air*”, “*toxics*”, “*land*”, “*radiation*”, “*maps*”, and “*other*”, to determine the type of media information desired; under the “**advanced capabilities**” tab, click on the “*queries*”, “*maps*”, or “*reports*” links to locate more specific information; from here, the user will be led to a page where queries about any type of environmental site can be entered using a zip code, county or State abbreviation; click on the “find it” link to locate information about one or multiple environmental sites, or, to generate map locations for the any type of environmental site activity desired; the map is interactive, and the user can “zoom in” for closer details about the site; this database may include information on sites from the aforementioned Municipal and Residual Waste, Storage Tanks, RCRA, HSCA, CERCLA, Act 2, and TRI databases; sites with National Pollutant Discharge Elimination System (NPDES) and radiation-related permits also included in this database).

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

Sites for Aerial Photographs and Fire Insurance Maps

- ***Aerial Photographs:*** Aerial photographs may be accessed via the Pennsylvania Department of Conservation and Natural Resources (PA DCNR) web site (web link: www.dcnr.state.pa.us/topogeo/gismaps/aerials.aspx.htm; click on the “Proceed to the new DCNR” link, then click on the “Aerial Photos” option; this will lead to a link for the U. S. Geological Survey’s Aerial Photo Finder; information can be sought, and site location maps can be generated by selecting the “zip code”, “populated place”, or “map location” options).
- ***Sanborne Fire Insurance Maps:*** These maps may be obtained from EDR Sanborne, Inc., at 1-800-352-0050, or at www.edrnet.com; click on the “Sanborne Maps” link, and then click on the phrase “Download Sample” to view an example of this map type. **There is an additional cost for obtaining these maps.**

ENVIRONMENTAL DUE DILIGENCE (EDD) PHASE 1
VISUAL INSPECTION FORM

DATE: 3/16/09

SR/SEC: T-395

COUNTY: Lawrence

SEGMENT: N/A

ECMS Project#: 57113

ACTIVITY: Bridge Replacement

Location: Approx. 3000' south of the SR0018 and T-395 intersection

Visual Site Inspection (EDD-PHASE 1):

- Stressed Vegetation Yes [] No [x]
- Staining on Soils Yes [] No [x]
- Staining Along PennDOT ROW
or on ROW Materials Yes [] No [x]
- Detectable Odors Yes [] No [x]

Comments: See Attachments for: comments and location map

Findings

Check one:

Due diligence inspection performed and no visual evidence of a spill or release in project ROW was detected.

Due diligence inspection performed and evidence of a spill or release in project ROW was detected. Phase 2 documents attached.

Due diligence not applicable for this project. No waste or fill.

SIGNATURE: 

PRINTED NAME: Susan M. Edmiston

TITLE: Technician

ORGANIZATION: FRANK B. TAYLOR ENGINEERING

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

(See reverse for public burden disclosure.)

1. Type of Federal Action: <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	2. Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	3. Report Type: <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change For Material Change Only: year _____ quarter _____ date of last report _ _
4. Name and Address of Reporting Entity: <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, <i>if known</i> : Congressional District, <i>if known</i> : 4c	5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime: Congressional District, <i>if known</i> :	
6. Federal Department/Agency:	7. Federal Program Name/Description: CFDA Number, <i>if applicable</i> : _____	
8. Federal Action Number, if known:	9. Award Amount, if known: \$	
10. a. Name and Address of Lobbying Registrant <i>(if individual, last name, first name, MI):</i>	b. Individuals Performing Services <i>(including address if different from No. 10a)</i> <i>(last name, first name, MI):</i>	
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature: _____ Print Name: _____ Title: _____ Telephone No.: _____ Date: _____	
Federal Use Only:		Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract,

which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer

shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (ii) The classification is utilized in the area by the construction industry; and
- (iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the

contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at

<http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages.

Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary

to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed,

or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification

or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each

participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

- a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.
- b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.
- d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).
- e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
- f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.
- g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each

participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-- Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR
APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL
ACCESS ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

Steel Escalation Option

The undersigned hereby certifies that he/she is authorized to make a decision, on behalf of the Bidder, regarding application of the provisions of the Standard Special Provision entitled "Price Adjustment for Steel Cost Fluctuations" to the following project:

ECMS Project No. _____ S.R. _____, Section _____ Letting Date _____

SSP SUBSECTION	CATEGORY NAME	OPTION-IN*	OPTION-OUT**
4.a	Guide Rail and Metal Median Barrier	<input type="checkbox"/>	<input type="checkbox"/>
4.b	Reinforcement Bars	<input type="checkbox"/>	<input type="checkbox"/>
4.c	Piles	<input type="checkbox"/>	<input type="checkbox"/>
4.d	Steel Sign Structure(s)	<input type="checkbox"/>	<input type="checkbox"/>
4.e	Fabricated Structural Steel	<input type="checkbox"/>	<input type="checkbox"/>
4.f	Precast Reinforced Concrete Box Culvert(s) / Prestressed Concrete Bridge Beam(s)	<input type="checkbox"/>	<input type="checkbox"/>

* Checking here **elects** the option to apply the provisions of the SSP entitled "Price Adjustment for Steel Cost Fluctuations" to the steel used in applicable materials placed as part of the work items in the indicated category.

** Checking here **declines** the option to apply the provisions of the SSP entitled "Price Adjustment for Steel Cost Fluctuations" to the steel used in applicable materials placed as part of the work items in the indicated category.

CONTRACTOR NAME

X _____
SIGNATURE

PRINTED NAME

DATE

The apparent low bidder is required to submit this form via fax to (717) 705-1504 by 3:00 pm prevailing local time within 7 calendar days after the bid opening. When the seventh calendar day after the bid opening falls on a day PennDOT offices are closed, submit this form via fax by 3:00 pm prevailing local time on the next business day.

If a properly completed form is not provided by the apparent low bidder within the time specified, the Department will consider the option to apply the price adjustment provisions to the project to be declined (i.e. Option-OUT will be selected for the project). If the form, when provided within the time specified, has been completed such that the Department is unable to ascertain the bidder's intention with regard to the inclusion of any one of the applicable steel product categories, the Department will consider the option to apply the price adjustment provisions to that product category to be declined (i.e. Option-OUT will be selected for the category). No further opportunity to elect steel escalation for the project or an individual steel product category will be made available to the bidder.

Mitigation Tracking System Signature Page

Project Name: Wampum Bridge #2

MPMS #: 57113

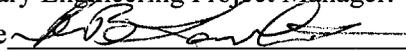
SR/Section: N/A

Project Location: Lawrence County

Part 1: Preliminary Engineering

All items listed in the approved environmental documents and permits have been incorporated into the CE Evaluation Part B, Section E (attached) to facilitate monitoring of the project's commitments and mitigation requirements:

Preliminary Engineering Project Manager:

Signature  Date 2-27-2012

Part 2: Design Field View

All items listed in the approved CE Evaluation Part B, Section E (attached) have been accounted for in the project's design field view plans.

Design Project Manager:

Signature N/A Date _____

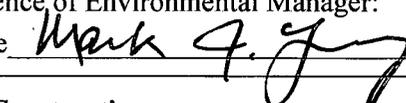
Part 3: Final Design

All items listed in the approved into the CE Evaluation Part B, Section E (attached) have been incorporated into the project's final plans, specifications, and estimates package (PS&E).

Final Design Project Manager:

Signature  Date 7-25-2012

Concurrence of Environmental Manager:

Signature  Date 7/25/12

Part 4: Construction

All items listed in the approved CE Evaluation Part B, Section E (attached) have been accomplished at the project area.

Construction Project Manager:

Signature _____ Date _____

Concurrence of Environmental Manager:

Signature _____ Date _____

Part 5: Maintenance & Operations

All items listed in the approved CE Evaluation Part B, Section E (attached) have been accomplished at the project area.

Environmental Manager:

Signature* _____ Date _____

* Include multiple signature lines for annual sign-offs if necessary.

CE Evaluation Part B, Section E

Resources To Be Avoided and Mitigation Measures

The mitigation measures summarized in this section should be incorporated into the project's design documents. In order to track and transfer mitigation commitments through the project development process, [Environmental Commitments & Mitigation Tracking System \(ECMTS\)](#) documentation should be prepared and submitted to the appropriate channels, including the Contract Management Unit, as the project moves through Final Design and Construction. Mitigation is automatically completed for the resource specific areas in this document. Non-resourced specific mitigation should be added to this page for documentation purposes.

Mitigation measures are COMMITMENTS of both the Department and FHWA and are agreed to and approved by the District Executive for Level 1 CEEs and by the Division Administrator of FHWA for Level 2 CEEs.

Impacts and mitigation commitments are based on Preliminary Design and may change as the project moves through Final Design and Construction. Final design information and final mitigation commitments are included in the ECMTS documentation.

1. Specific Permanent Impacts

Streams (B:A-1):0 *linear feet*
Wetlands (B:A-1):0 *acres*
State Gamelands (B:A-2): *acres*

2. Specific Mitigation Commitments

STREAMS (B:A-1)

Project Specific Restoration/Enhancement: *linear feet*

Advanced Compensation/Banking: *linear feet*

Other:

Mitigation Remarks: Design related mitigation: A Notice to Contractor will be included in the construction contract informing the contractor that in-stream activities will be restricted from March 1 – June 15 due to trout stocking of Hickory Run.

Construction related mitigation: In-stream activities will be restricted from March 1 through June 15 due to trout stocking of Hickory Run.

WETLANDS (B:A-1)

Project Specific Replacement/Construction: *acres*

Banking: *acres*

Bank to be Debited:

Restoration: *acres*

Preservation: *acres*

In-Lieu Fee: *whole dollars*

Other:

Mitigation Remarks:

STATE GAMELANDS (B:A-2)

Project Specific Replacement: *acres*

Banking: *acres*

Bank to be Debited:

Other:

Mitigation Remarks:

3. Other Mitigation Commitments

RESOURCE SPECIFIC

Threatened & Endangered Plants & Animals - Avoidance Measures (B:A-3)

Cut trees between November 16 and March 31 (this measure is necessary to avoid killing or injuring endangered bats). Where possible, retain shagbark hickory trees, dead and dying trees, and large diameter trees (> 12 inches d.b.h.) to serve as roost trees for bats. Where possible, also retain forested riparian corridors and forested wetlands.

Threatened & Endangered Plants & Animals - Other Mitigation (B:A-3)

Design related mitigation: A Notice To Contractor will be included in the contract informing the contractor that any tree clearing will need to be completed between November 16 and March 31.

Construction related mitigation: The contractor will conduct all tree clearing activities between November 16 and March 31

Cultural Resources (B:A-4)

Design related mitigation: PennDOT will record the Wampum Road over Hickory Run Bridge to state level standards. The historic narrative will include a discussion of the reinforced concrete thru arch type within Pennsylvania and across the nation. The recordation will also employ photogrammetry to augment the information. The recordation will be completed within 5 years of the execution of this agreement. If this recordation is not complete within 5 five years the parties to this agreement shall meet to develop a new agreement.

Section 4(f) Resources (B:A-5)

PennDOT will record the Wampum Road over Hickory Run Bridge to state level standards. The historic narrative will include a discussion of the reinforced concrete thru arch type within Pennsylvania and across the nation. The recordation will also employ photogrammetry to augment the information. The recordation will be completed within 5 years of the execution of this agreement. If this recordation is not complete within 5 five years the parties to this agreement shall meet to develop a new agreement.

NON-RESOURCE SPECIFIC

Other 1

Environmental related mitigation: Threatened and endangered species coordination will be updated as needed until the project is let.

Other 2

Construction related mitigation: All waste material generated from the project must be disposed of in an environmentally sensitive manner. Impacts to wetlands, streams, floodplains and contaminated areas are prohibited. Coordination with the District Environmental Unit must take place prior to wasting any material.

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

PENNDOT Waste/Borrow Areas

Erosion and Sedimentation Pollution Control Plan Submission for Areas Less Than One Acre

Pennsylvania Department of Transportation
Engineering District 11-0
Environmental Unit
45 Thoms Run Road
Bridgeville, PA 15017

Mark J. Young, District Environmental Manager
412-429-4858
markyoung@state.pa.us

George M. Kronz, Assistant Environmental Manager
412-429-4856
gkronz@state.pa.us

Todd C. Crouch, Assistant Environmental Manager
412-429-4950
tcrouch@state.pa.us

Nicholas P. Krobot, Assistant Environmental Project Manager
412-429-5084
nikrobot@state.pa.us

J. Tyler Mercer, SEMP Process Owner
412-429-4950
jarmercer@state.pa.us

March 2011

PennDOT Waste/Borrow Area – Helpful Links

Pennsylvania Department of Environmental Protection

<http://www.dep.state.pa.us>

The Pennsylvania Association of Conservation Districts, Inc.

<http://pacd.org/>

Pennsylvania Spatial Data Access – for a wide variety of mapping

<http://www.pasda.psu.edu>

United States Geological Survey

<http://www.usgs.gov>

Pennsylvania Municipality Information

<http://www.pamunicipalitiesinfo.com>

Flood Hazard Mapping

<http://www.fema.gov/hazard/flood/info.shtm>

National Wetlands Inventory Mapping

<http://wetlands.fws.gov/>

Aerial Photographs and Mapping

<http://msrmaps.com/Default.aspx>

Soil Survey Mapping

<http://soilmap.psu.edu>

Contractor Contact (name & number)

Date _____

_____ County

_____ Township/Municipality

S.R.: _____ Section: _____

Waste Area Erosion and Sedimentation Control Plan

For PennDOT Construction Project

Ms. Donna Simmons, Manager
Allegheny County Conservation District
Lexington Technological Park
Building #1, Suite 102
400 North Lexington Avenue
Pittsburgh, PA 15208
(Phone: 412.241.7645)
(Fax: 412.242.6165)

Mr. James Shaner
Beaver County Conservation District
156 Cowpath Road
Aliquippa, PA 15001
(Phone: 724.378.1701)
(Fax: 724.857.1044)
jim.shaner@bccdpa.us

Ms. Joanne McCready, Manager
Lawrence County Conservation District
Lawrence County Government Center
430 Court Street
New Castle, PA 16101
(Phone: 724.652.4512)
(Fax: 724.657.2008)
lcd@lawerncecd.org

NOTE – Call Conservation District to confirm that you have the current Manager’s name and title, and the current review application. Coordinate field view with County Conservation District’s and the District Environmental Unit as needed.

Dear _____:

_____ (Contractor) is currently proposing to waste material from the above-referenced project. The waste area will be located at _____. (Give the waste site location, municipality, and county)

All work will be completed in accordance with the Best Management Practices that are identified in the attached plan. The E&S Plan will be available on site at all times during construction activities.

If you have any questions, please contact _____, at the telephone number listed above.

Sincerely,

Attachment

(Name)

(Title)

Cc:

Mark J. Young, PennDOT Environmental Manager

_____ (PennDOT Construction Project Manager)



Lexington Technology Park, Building 1, Ste. 102 - 400 North Lexington Street - Pittsburgh, PA 15208-2566
Phone (412) 241-7645 - Fax (412) 242-6165

**APPLICATION FOR EROSION AND SEDIMENT POLLUTION
CONTROL PLAN ADEQUACY REVIEW**

THIS APPLICATION MUST BE COMPLETED AND ACCOMPANIED BY THE REQUIRED FEE, PLANS AND NARRATIVES TO BE CONSIDERED FOR TECHNICAL REVIEW

Project Name: _____

Municipality: _____ Municipal Engineer: _____

Total Project Acreage: _____ [Fee Basis] Total Disturbed Acreage: _____

Fee Submitted: \$ _____ Existing Permits: _____

Applicant: _____ Phone: _____

Address: _____

City: _____ State: _____ Zip: _____

Landowner(s): _____ Phone: _____

Address: _____

City: _____ State: _____ Zip: _____

Responsible Party for Earthmoving: _____ Phone: _____

Address: _____

City: _____ State: _____ Zip: _____

A negotiable check or money order payable to the Allegheny County Conservation District must accompany this Application based upon the fee schedule for the **TOTAL** project acreage of the site. The check or money order cannot be more than **ten (10)** days old.

The Landowner(s) agree to comply with all the requirements of the Commonwealth of Pennsylvania, Title 25 [Clean Streams Law], Chapter 102 [Erosion and Sediment Pollution Control Rules and Regulations], and to obtain any other permits which may be required by Federal, State, County or Municipal Law or Ordinance.

Landowner(s) Signature(s): _____ Date: _____

THE COMPLETE PLAN CHECKLIST IS ATTACHED ON THE BACK OF THIS PAGE. ALL ITEMS LISTED ON THE CHECKLIST MUST BE INCLUDED IN THE PLAN SUBMITTAL OR THE PLAN WILL NOT BE CONSIDERED FOR TECHNICAL REVIEW.

COMPLETE PLAN (✓) CHECKLIST

1. **TOPOGRAPHIC FEATURES OF THE PROJECT AREA**
 - A. The existing topographic features of the project area and surrounding area are shown on plan maps included in the drawings
 - B. A location map has been provided (U.S.G.S. Quadrangle)
2. **TYPE, DEPTH, SLOPE AND EXTENT OF THE SOILS**
 - A. A soils map has been provided
 - B. Physical characteristics of the soil are addressed in the narrative
3. **PROPOSED ALTERATION TO THE AREA**
 - A. The limits of the project are shown on the plan drawings
 - B. Existing and proposed contours are shown on plan drawings
4. **AMOUNT OF RUNOFF FROM THE PROJECT AREA AND UPSTREAM WATERSHED**
 - A. Calculations are provided showing anticipated peak flows for the design storms
5. **STAGING OF EARTHMOVING ACTIVITIES**
 - A. Detailed step-by-step construction sequence has been provided
6. **TEMPORARY CONTROL MEASURES AND FACILITIES**
 - A. Plan map(s) show locations of proposed temporary control measures and facilities
 - B. Construction details have been provided
 - C. Supporting computations have been provided
7. **PERMANENT CONTROL MEASURES AND FACILITIES**
 - A. Plan map(s) show locations of proposed permanent control measures and facilities
 - B. Construction details have been provided
 - C. Supporting computations have been provided
8. **MAINTENANCE PROGRAM**
 - A. A maintenance program has been provided
9. **COMPLETE PLAN SETS (CHECK A OR B)**
 - A. Three (3) sets of the Erosion and Sediment Pollution Control Plan sheets & three (3) sets of the narrative for **non-NPDES** and four (4) sets for **Phase I NPDES GENERAL PERMITS** (five plus (5+) acres disturbed) or four (4) sets for **Phase II NPDES GENERAL PERMITS** (1 to 5 acres disturbed/a point source discharge to waters of the Commonwealth)
 - B. Four (4) sets of the Erosion and Sediment Pollution Control Plan sheets and four (4) sets of the narrative for **NPDES INDIVIDUAL PERMITS** (projects within a **high quality or exceptional value watershed**)

TECHNICAL REVIEW FEE SCHEDULE

TIMBER HARVESTING

<u>TOTAL PROJECT ACREAGE</u>	<u>FEE</u>	<u>TOTAL PROJECT ACREAGE</u>	<u>FEE</u>
⇒ 0 – 2.0	\$585	⇒ 0 - 24.99	\$208.00
2.1 – 4.0	\$949	25.0 - 49.99	\$468.00
4.1 – 10.0	\$1,586	50.0 - 249.99	\$533.00
10.1 – 25.0	\$2,808	250.0 & OVER	\$598.00
25.1 – 40.0	\$3,718		(plus \$6.00/acre over 250)
40.1 – 55.0	\$4,667		
55.1 – 70.0	\$5,590		
70.1 & OVER	\$5,590 (plus \$50/acre over 70)		

1st Rev. – 20% of initial fee
 2nd Rev. – 30% of initial fee
 3rd Rev. – 100% of initial fee

⇒ **CHAPTER 105 PERMITS** – 0-2 Acres = \$200



Beaver County Conservation District

156 Cowpath Road, Aliquippa, PA 15001 Phone (724) 378-1701 FAX (724) 857-1044

**BEAVER COUNTY CONSERVATION DISTRICT APPLICATION
EROSION & SEDIMENTATION CONTROL ADEQUACY REVIEW
EFFECTIVE 1/12/04**

THIS APPLICATION MUST BE COMPLETED IN FULL AND ACCOMPANIED BY THE REQUIRED FEE(S), PLANS AND NARRATIVE BEFORE IT WILL BE ACCEPTED FOR ADEQUACY REVIEW.

MUNICIPALITY _____ NAME OF PROJECT _____

TOTAL PROJECT ACRES _____ TOTAL DISTURBED ACRES _____

RECEIVING STREAM _____ CHAPTER 93 CLASSIFICATION _____

APPLICANT _____ TELEPHONE # _____

APPLICANT'S ADDRESS _____

NAME OF PLAN PREPARER _____ TELEPHONE # _____

MAILING ADDRESS _____

OFFICIAL RESPONSIBLE FOR EARTHMOVING _____

MAILING ADDRESS _____

TELEPHONE # _____

Make an E&S Review Check Payable to: "Beaver County Conservation District" or "B.C.C.D."

Make NPDES Permit Check Payable to: "District Clean Water Fund".

This application must be completed by the applicant or his agent, submitted with the required plan information, and the required fee(s). Incomplete submissions will not be accepted for review.

The applicant agrees to comply with all the requirements of the Pennsylvania's Erosion and Sedimentation Pollution Control Rules and Regulations, and further agrees to obtain all necessary Federal, State, County and Local permits associated with the subject project.

Signature of Applicant/Agent

Date

Lawrence Conservation District

E&S Pollution Control Plan Review and NPDES Permit Filing Application
Effective January 7, 2009- All information is required to process your application.

Project Name: _____
 Municipality: _____
 Receiving Stream(s): _____ Chp. 93 classification: _____
 Applicant: _____
 Address: _____
 Telephone: _____
 Plan Preparer/ Firm: _____
 Address: _____
 Telephone: _____
 Total Project Acreage: _____ Total Disturbed Acreage: _____

E&S Plan Review-earth disturbances<5,000sq. Ft.,a plan accompanying a Chp. 105 General Permit, a timber harvest < 25 acres

1. Three copies of the E&S Plan Narrative and Drawings
2. A completed District application form
3. \$60.00 Review Fee made payable to the Lawrence Conservation District

E&S Plan associated with a Spoil and Borrow Site-less than 5 acres without a point source discharge to a surface water of the Commonwealth and not associated with an NPDES Permit

1. Two copies of the E&S Plan Narrative and Drawings
2. Location Map, USGS 7.5 minute quad, or legible copy
3. Signed copy of Landowner/Contractor Agreement
4. A completed District application form
5. \$40.00 Review Fee made payable to the Lawrence Conservation District

NPDES Applicants

1. Three completed copies of the Notice Intent or Individual Permit Application. One must be the original notarized form
2. Appropriate Filing Fee-\$250.00/General Permit, or \$500.00/Individual Permit made payable to the Lawrence County Clean Water Fund
3. A completed District application form
4. Completed Applicant Checklist and the required materials specified
5. Appropriate District Review Fee made payable to the Lawrence Conservation District

ESCP Permit-timber harvest/road maintenance projects >25 acres

1. One original and two copies of the ESCP Application. One must be the original notarized form.
2. A completed ESCP Applicant Checklist and the required materials specified on the form
3. Filing fee of \$500.00 made payable to the Lawrence County Clean Water Fund
4. A completed District application form
5. Appropriate District Review Fee made payable to the Lawrence Conservation District

ESCGP-1 for Earth Disturbances Associated with Oil and Gas

For Earth Disturbance Activities associated with Oil and Gas Exploration/Production/Processing /Treatment Operations/Transmission Facilities

1. Contact the District for submission requirements

Carefully read the statement of policy. This form must be signed by the applicant. The District will no longer accept acknowledgement from a consultant.

Applicant's Signature: _____ Date: _____

District use only

Date received: Notes:	NPDES \$ _____ Check # _____
	Review \$ _____ Check # _____
	Revision \$ _____ Check # _____
	Revision \$ _____ Check # _____

Total Project Acres	Initial Fee	Revision Fee
0-.99	\$60.00	\$25.00
1.0-4.99	\$375.00	\$75.00
5-14.99	\$650.00	\$150.00
15-24.99	\$1,500.00	\$250.00
25-50.99	\$1,800.00	\$400.00
51-69.99	\$2,100.00	\$550.00
70-99.99	\$2,500.00	\$625.00
100 and over	\$2,500.00+10/acre*	25%of initial fee

*\$10 per acre over 100 acres rounded to the nearest total project acre

*Timber Harvest ≥ 25 acres, refer to chart above for assessed fee

Please read the following carefully, the policies outlined below will be strictly adhered to:

Statement of Policy

- NPDES Permit Processing Fees for earthmoving sites are current permit filing fees, which are charged in addition to the above review fee. All applications for NPDES Permits with over 5.0 acres of contiguous disturbed ground will require review of the E&S plan.
- All applications for Individual NPDES Permits with earth disturbance between 1.0 and 4.99 acres resulting in a point source discharge to a surface water of the Commonwealth will require review, General NPDES permits will be reviewed as staff resources and responsibilities permit.
- Application packages will receive administrative review to be conducted within the timeframes specified by the Program guidance. Administratively incomplete applications will be subject to the filing fee upon resubmission of the deficient items. Administratively incomplete packages will be returned if deficient items are not satisfied by the end of the 60 day time frame. Any resubmission following return of the application will be subject to all associated fees.
- The above schedule reflects an initial review. Resubmission during the technical review of a project will require submission of the revision fee. Payment of the fee is expected at the time of resubmission. Fees paid for any and all technical reviews will not be returned unless the project is withdrawn by the applicant prior to completion of the administrative review. Requests for refund of review fees should be requested in writing at the time of the withdrawal of the application.
- Once approved, major plan revisions in cases of project phasing or major revamping of the original plan will be subject to the appropriate filing and review fees, as well as, submission of any administrative requirements.
- State government agencies and schools are the only entities exempt from the administrative filing fee.
- Erosion and Sedimentation Pollution Control Plans (E&S) for minimal earthmoving projects will be assessed a fee on a case-by-case basis but not less than the Base Fee. In some cases, the fee may be waived for projects with limited earthmoving, but the District is the sole determinant of that waiver. Determination of qualification for a waiver of fee should be requested in writing prior to submission of the project for review.
- Erosion and Sedimentation Pollution Control Plans for Spoil and Borrow Areas <5.0 acres include an in office investigation of site conditions that may support wetlands as defined by the 1987 Federal Manual. Neither the District, nor Lawrence County assumes any responsibility for the placement of fill, destruction, or alteration of any wetland areas that may be present at the site. The Lawrence Conservation District recommends consultation with those agencies having specific permitting authority.
- On an occasion municipal entities, owners and consultants will request the technical assistance of the District regarding the necessity of permitting under the program's authority. In these instances, the District will make determinations regarding the necessity of permitting under the program's authority based upon submission of a technically complete set of plan drawings in accordance with the requirements of 25 PA Code 102 et seq., and its' associated guidance materials. The determination will be based solely on the information provided at that time. Any changes to the project's location, scope of work, or BMP discharge locations will nullify any determination made by the District.

NPDES Permitting Process for Earthmoving Sites

Individual NPDES Permit

- The earthmoving activity is in a special protection High Quality (HQ) or Exceptional Value (EV) watershed.
- The earthmoving activity that will alter existing water quality standards.
- The earthmoving activity may result in pollutant or toxic discharge.
- Permit Filing Fee: \$500.00
- District reviews E&S Plan and PPC Plan. Additional BMP considerations for water quality protection in HQ/EV watersheds. Before permit is issued, it must be published in the PA Bulletin for public review. After District review is complete, recommendation for permit action is sent to the Department of Environmental Protection for final processing.

General NPDES Permit

- The earthmoving activity disturbs more than 5.0 acres in a regular watershed.
- The earthmoving activity disturbs between 1.0 and 4.99 acres resulting in a point source discharge to a surface water of the Commonwealth.
- Permit filing fee: \$250.00
- District reviews E&S Plan and issues approval for permit.

The Conservation District will review this plan solely to determine whether it is adequate to satisfy the requirements of 25 PA Code 102 et seq., the erosion control regulations of the Department of Environmental Protection. By a determination that the plan is adequate to meet those requirements, neither the District nor Lawrence County assumes any responsibility for the implementation of the plan or the proper construction and operation of the facilities contained in the plan. The design, structural integrity and installation of the control measures are the responsibility of the landowner and/or the earthmover. Before any construction may begin, the appropriate and necessary local, state and federal permits must be secured from the agency having specific permitting authority.

Insert a copy of the Waste/Borrow Agreement. Include any relative information/attachments.

Attach
Waste/Borrow
Agreement

PENNDOT – Waste/Borrow Area E&S Package – COLOR PHOTOGRAPHS REQUIRED – NO PHOTOCOPIES

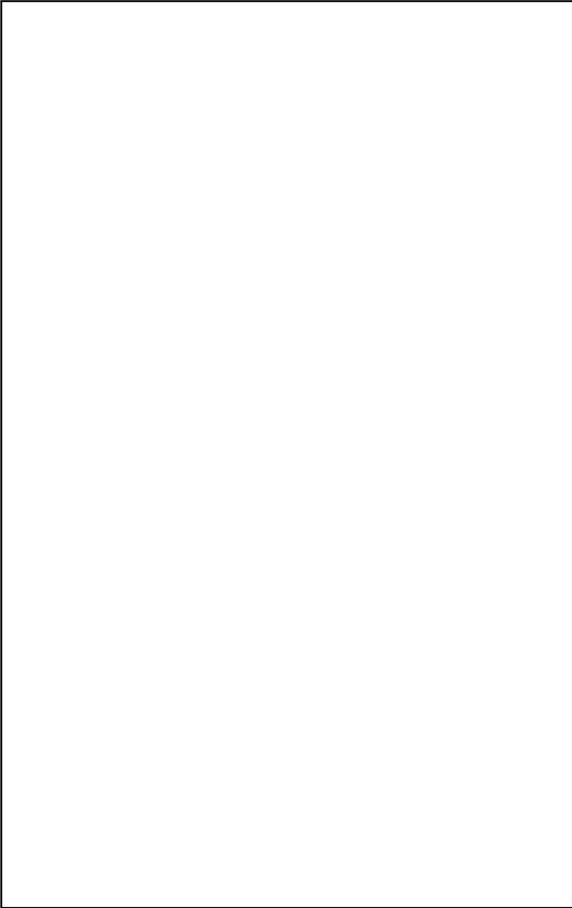


Photo 1 - _____

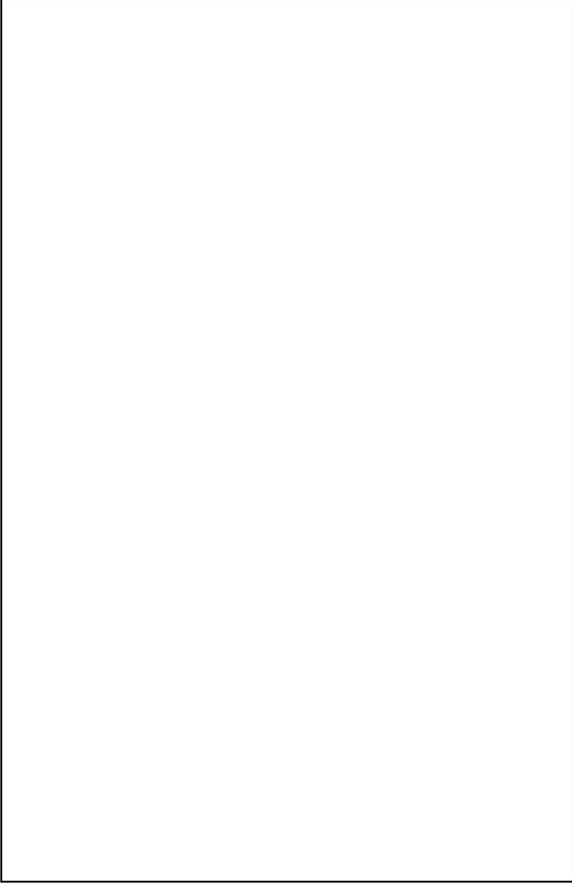


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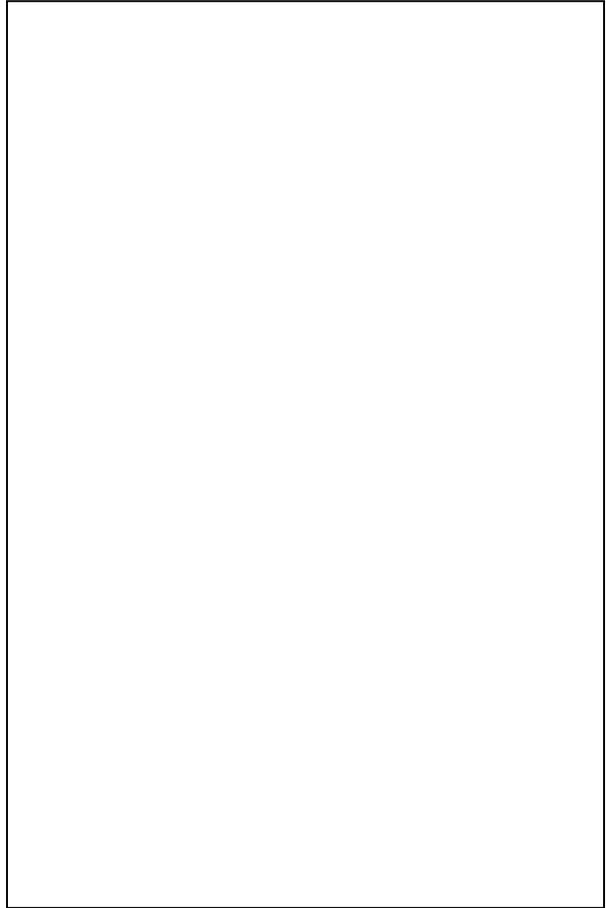


Photo 3 - _____

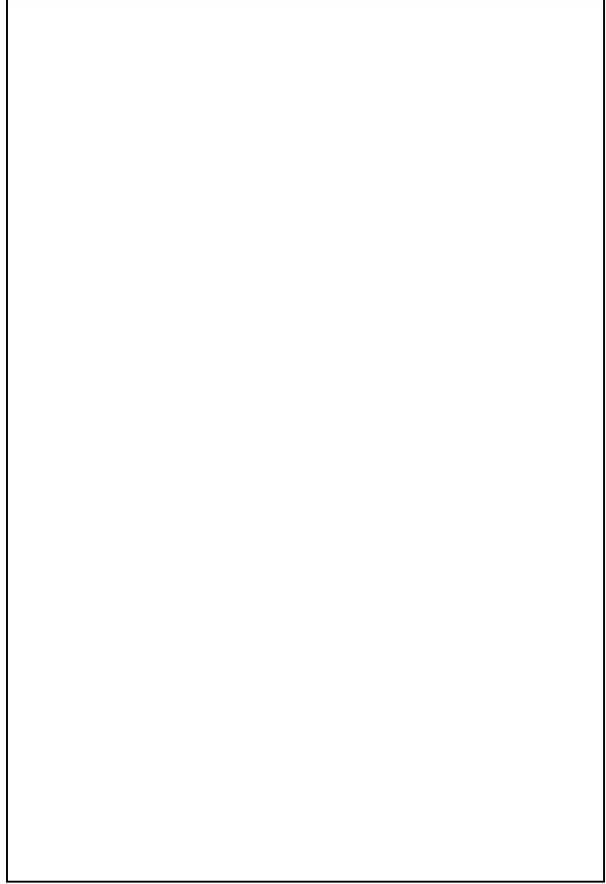


Photo 4 - _____

Waste/Borrow Area Photographs – COLOR PHOTOGRAPHS REQUIRED – NO PHOTOCOPIES

PENNDOT – Waste/Borrow Area Soils Map – from County Soil Survey

Soils Map available from County Soil Survey

Denote Map/Sheet Number on bottom of page (see below)

Clearly delineate the project area on the map

Denote soil name/types on attached Soils Checklist. Use additional pages as necessary.

Insert Soils Map
Here

Map Unit Number _____

PENNDOT – Waste/Borrow Area USGS Map – from 7-minute series topographic map

Clearly delineate site on USGS topographic map.
Include Quadrangle name (see below).

Insert USGS Map
Here

USGS Quadrangle Name - _____

PENNDOT - Waste/Borrow Area Soils Checklist

Allegheny County Soil Survey

Waste / Borrow (circle one) Area

Soil Name _____ (Existing on site or Borrow Material)

Drainage Characteristics - *From detailed soil description* Hydric? _____
poor, well, excessively (circle one)

Restrictive Soil Features *From Table 3 - Soil interpretations for engineering uses*

If Borrow Material, what will the material be used for? _____
Suitability as topsoil, sand and gravel, or road fill? _____
Soil features affecting above use of the material? _____

Potential for Wetland Plants - *From Table 7 - Suitability of soils for elements of habitat and wildlife*
poor, very poor, good (circle one)

Erosion Hazard - *From Table 8 - Soil interpretations for woodland*
slight, moderate, severe (circle one)

Waste Material (to be brought in)

Shoulder Cuttings _____	Quantity _____
Bituminous/Blacktop _____	Quantity _____
Concrete Slabs _____	Quantity _____
Gravel/Sed Deposit _____	Quantity _____
Urban or Roadway Fill _____	Quantity _____
Other _____	Quantity _____

Beaver, Lawrence County Soil Survey

Waste / Borrow (circle one) Area

Soil Name _____ (Existing on site or Borrow Material)

Drainage Characteristics - *From detailed soil description*
poor, well, excessively (circle one)

Erosion Hazard - *From Table 7- Woodland Management and Productivity Table*
slight, moderate, severe (circle one)

Potential for Wetland Plants - *From Table 9 - Wildlife Habitat Potential Table*
poor, very poor, good (circle one)

Restrictive Soil Features *From Table 10 - Building Site Development*

List applicable use from Table 10 _____

Corresponding restrictive feature _____

Restrictive Soil Features *From Table 12 - Construction Materials*

If Borrow Material, what will the material be used for? _____

Suitability as topsoil, sand and gravel, or road fill? _____

Restrictive Soil Features *From Table 13 - Water Management*

List applicable use from Table 13 _____

Corresponding restrictive feature _____

Waste Material (to be brought in)

Shoulder Cuttings _____ **Quantity** _____

Bituminous/Blacktop _____ **Quantity** _____

Concrete Slabs _____ **Quantity** _____

Gravel/Sed Deposit _____ **Quantity** _____

Urban or Roadway Fill _____ **Quantity** _____

Other _____ **Quantity** _____

PennDOT – Waste/Borrow Area Survey Drawing Contents

The following items are required for inclusion on the survey drawings of the Waste/Borrow Area:

Legend

North Arrow

Roadway name/ State Route (SR) number

Scale

All waterways, wetlands, floodways with Chapter 93 Classification

Existing Grade

Changes to grade as a result of site preparation and waste/borrow operations

Site Boundary

Location of BMP's (both temporary and permanent)

Match Lines (if multiple sheets)

Specify which BMP will be utilized and denote the location on the survey drawings. Be sure to number the BMP's in order of installation and the site-specific sequence of waste and/or borrow activities.

Site Preparation

- _____ - **Installation of Rock Construction Entrance**
- _____ - **Installation of Silt Barrier Fence (18")**
- _____ - **Installation of Silt Barrier Fence (30")**
- _____ - **Installation of Compost Filter Sock**
- _____ - **Install Temporary Inlet Protection (where necessary)**
- _____ - **Initial site grading prior to receiving material (if applicable)**

Conduct Waste/Borrow Operations

- _____ - **Maintain Silt Barrier Fence**
- _____ - **Install Silt Fence Rock Filter Outlets where needed**
- _____ - **Temporary Stabilization**
- _____ - **Erosion Control Blankets**
- _____ - **Maintain Rock Construction Entrance and clear paved areas of soil and debris**

Completion of Waste/Borrow Operations

- _____ - **Stabilize area as per Stabilization Specification**
- _____ - **Seed and Mulch with appropriate soil supplements**
- _____ - **Erosion Control Blankets**
- _____ - **Maintain areas to be stabilized in order to achieve uniform 70% perennial vegetative cover**

Site Closure and Inspection

- _____ - **Site acceptance is dependent upon the inspection of the Project Engineer and/or the Project Environmental Manger**
- _____ - **Site closure will be incorporated into the final inspection and acceptance of the overall project**
- _____ - **BMP's will be removed only after a uniform 70% perennial vegetative cover has been established**

PENNDOT Waste/Borrow Area - Contact Information and Inspection Responsibilities

Consultant/Contractor - Site identification and completion of E&S Plan

NAME PHONE

PENNDOT Project Environmental Manager - Site selection approval and initial review of E&S Plan

NAME PHONE

Consultant/Contractor - Installation and maintenance of BMPs weekly and following each rain event

NAME PHONE

PENNDOT Construction Project Manager - Ensure field implementation and weekly inspection of BMPs

NAME PHONE

PENNDOT Construction Inspector - Inspection of BMPs weekly and following each rain event

NAME PHONE

Consultant/Contractor Inspector - Inspection of BMPs weekly and following each rain event

NAME PHONE

Note - E&S Controls are to be maintained by the contractor immediately following inspection until a uniform 70% perennial vegetative cover is achieved throughout the disturbed area.

Note - E&S controls must be maintained by the contractor following all waste and/or borrow activities until Final Acceptance of the overall project has been granted by the Department.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES

(USED FOR IN-STREAM WORK - 9999 ACTIVITIES, GP-3, GP-7, AND GP-8)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				1 OF 13
IN-STREAM E&S BMPs				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	

STAGING OF ACTIVITIES AND EROSION AND SEDIMENTATION ISSUES FOR GENERAL OR GENERIC PERMITS

- A PROTECTIVE SILT FENCE BARRIER IS REQUIRED DOWN SLOPE OF ANY AREAS TO BE DISTURBED. THE SILT FENCE MUST BE INSTALLED PROPERLY PRIOR TO ANY EARTH DISTURBANCE ACTIVITY.
- ROCK CONSTRUCTION ENTRANCES ARE REQUIRED WHEN EQUIPMENT WILL TRAVERSE BETWEEN VEGETATED AND PAVED AREAS.
- FOR PERMITTED ACTIVITIES THAT INCLUDE ACCESS OR CROSSING INTO WETLANDS, EQUIPMENT SHOULD MOVE ACROSS OR BE SITUATED ON TOP OF WETLAND MATTING. THE USE OF ROCK AND GEOTEXTILE IN WETLAND AREAS SHOULD BE AVOIDED.
- BEST MANAGEMENT PRACTICES MUST BE FOLLOWED FOR WORK AROUND OR WITHIN STREAM CHANNELS.
- FOLLOWING THE COMPLETION OF THE PERMITTED ACTIVITY AND REMOVAL OF ANY IN-STREAM OBSTRUCTIONS, ALL DISTURBED AREAS MUST BE STABILIZED WITH SEED AND MULCH AS PER STABILIZATION BMP AND SPECIFIED WITHIN THE PERMIT OR ASSOCIATED E&S PLAN.
- EROSION AND SEDIMENTATION CONTROLS THAT PROTECT A WATERCOURSE FROM RUNOFF FROM UNSTABILIZED AREAS SHOULD BE MAINTAINED IN PLACE AND INSPECTED WEEKLY OR AFTER EACH STORM EVENT.
- SEEDED AND MULCHED AREAS MUST BE MAINTAINED UNTIL A UNIFORM 70% PERENNIAL VEGETATIVE COVER IS ESTABLISHED. THIS MAY REQUIRE REAPPLICATION, DEPENDING ON THE AMOUNT OF RAINFALL IN ANY GIVEN YEAR AND THE SEASON WITHIN WHICH THE WORK WAS ORIGINALLY DONE. ONCE UNIFORM 70% PERENNIAL COVERAGE IS OBTAINED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT FENCE AND ANY OTHER E&S CONTROL ITEM.

GUIDELINES FOR STREAM BANK ACCESS AND CHANNEL EXCAVATION

1. ALL WORK SHOULD BE DONE FROM THE TOP OF BANK. WHERE THIS IS NOT POSSIBLE, A TEMPORARY CROSSING MUST BE PROVIDED FOR ANY EQUIPMENT WORKING WITHIN THE CHANNEL. AN ADDITIONAL PERMIT MAY BE REQUIRED FOR IN CHANNEL WORK AND THE PROJECT ENVIRONMENTAL MANAGER AND PROJECT ENGINEER MUST BE NOTIFIED OF THE NEED FOR ANY TEMPORARY CROSSING. SEPARATE PERMITS ARE REQUIRED FOR TEMPORARY CROSSINGS
2. ANY CLEARING AND GRUBBING AROUND STREAM BANK AREAS TO PROVIDE FOR EQUIPMENT ACCESS SHOULD AVOID THE REMOVAL OF TREE STUMPS AND THEIR ASSOCIATED ROOT SYSTEMS IN ORDER TO MAINTAIN THE STABILITY OF THE STREAM BANK.
3. ALL EXCAVATED CHANNEL MATERIALS THAT ARE TO BE SUBSEQUENTLY USED AS BACKFILL SHOULD BE PLACED IN A TEMPORARY STOCKPILE AREA OUTSIDE OF THE CHANNEL. A SILT FENCE MUST BE INSTALLED BETWEEN THE STOCKPILE AREA AND ANY SURROUNDING WATERCOURSE/WETLAND.
4. ANY EXCAVATED MATERIALS THAT ARE NOT TO BE REUSED ON SITE ARE TO BE REMOVED TO A WASTE AREA THAT HAS BEEN PREVIOUSLY APPROVED BY THE PROJECT ENVIRONMENTAL MANAGER AND THE COUNTY CONSERVATION DISTRICT. MATERIAL MAY NOT BE WASTED IN A FLOODWAY, FLOODPLAIN OR WETLAND AREA. PROPER EROSION AND SEDIMENTATION CONTROLS ARE REQUIRED FOR THE PROTECTION OF ANY NEIGHBORING WATERCOURSE AND THE STABILIZATION OF THE WASTED MATERIAL.
5. UPON COMPLETION OF WORK, THE BANKS AND/OR CHANNEL ENTRANCES MUST BE RESTORED TO THEIR ORIGINAL GRADE AND STABILIZED AS PER PENNDOT PUB. 408 AND ANY SPECIFICATIONS PROVIDED FOR IN THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR PERMIT. ADDITIONAL PROTECTION OF THE STREAM SHOULD BE PROVIDED FOR AGAINST RUNOFF FROM ANY DISTURBED AREAS ALONG THE BANK THAT HAVE NOT YET BEEN STABILIZED.

EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK BEST MANAGEMENT PRACTICES (BMP6)

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

- I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
(USED FOR IN-STREAM WORK)
SILT BARRIER FENCE - 18" & 30" HEIGHT

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
11				2 OF 13	
IN-STREAM E&S BMPs					
REVISION NUMBER	REVISIONS			DATE	BY
				12/09	NK

NOTES:

INSTALL SILT BARRIER FENCE TO PREVENT SEDIMENT-LADEN WATERS FROM TRAVELLING OFF SITE. SILT BARRIER FENCE WILL BE INSTALLED PER SPECIFICATION PRIOR TO ANY EARTH DISTURBANCE ACTIVITIES.

NOTE: THE PROJECT ENGINEER, PROJECT ENVIRONMENTAL MANAGER AND THE APPLICABLE COUNTY CONSERVATION DISTRICT MUST APPROVE ANY MODIFICATION TO THIS SPECIFICATION.

INSTALLATION:

INSTALL SILT BARRIER FENCE AS PER SPECIFICATION. THE FOOTER OF THE SILT BARRIER FENCE MUST BE BELOW THE COMPACTED GROUND SURFACE AS PER SPECIFICATION.

EXTEND END OF SILT BARRIER FENCE AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

FOR CLASS 3A GEOTEXTILE, UTILIZE 8 FOOT MAXIMUM POST SPACING. FOR CLASS 3B GEOTEXTILE, UTILIZE 4 FOOT MAXIMUM POST SPACING.

NOTE: WHERE TO INSTALL - DOWNSLOPE OF AREAS FROM RUNOFF.

MAINTENANCE: - WEEKLY (AND FOLLOWING EACH MEASURABLE RAIN EVENT)

SEDIMENT MUST BE REMOVED WHERE THE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE

ANY SECTION OF THE SILT BARRIER FENCE THAT HAS BEEN UNDERMINED OR TOPPED WITH SEDIMENT WILL BE IMMEDIATELY REPLACED WITH A SILT FENCE ROCK FILTER OUTLET (SEE E&S BMPs SHEET 3 OF 13)

SITE CLOSURE AND INSPECTION:

FOLLOWING EARTH DISTURBANCE ACTIVITIES, THE SILT BARRIER FENCE MUST BE INSPECTED AND MAINTAINED WEEKLY AND AFTER EACH MEASURABLE RAIN EVENT.

THE SILT BARRIER FENCE WILL BE MAINTAINED UNTIL A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED AT THE SITE. SEE STABILIZATION SPECIFICATION.

FOLLOWING SITE STABILIZATION, THE SILT BARRIER FENCE WILL BE REMOVED AND DISPOSED OF IN A PROPER FASHION.

SLOPE - PERCENT	MAXIMUM SLOPE LENGTH (FT) ABOVE FENCE	
	18" HIGH FENCE	30" HIGH FENCE *
2 (OR LESS)	150	500
5	100	250
10	50	150
15	35	100
20	25	70
25	20	55
30	15	45
35	15	40
40	15	35
45	10	30
50	10	25

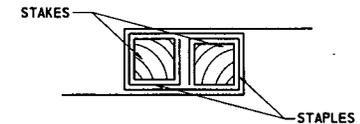
* REINFORCED 30" HIGH FENCE

EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK BEST MANAGEMENT PRACTICES (BMPs)

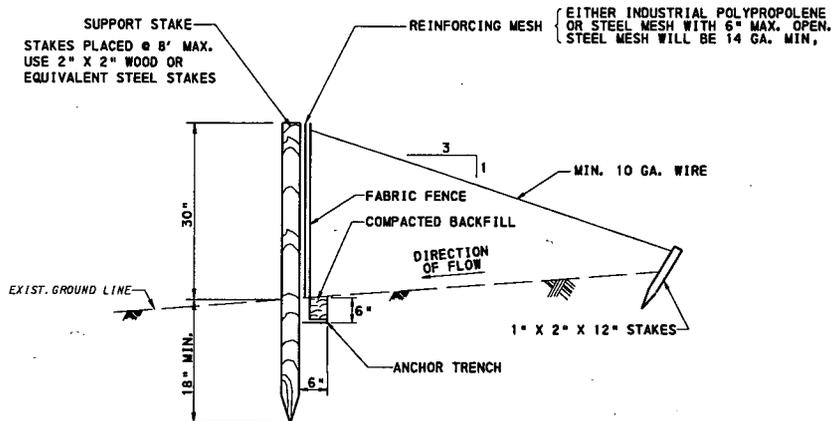
NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH ≤ 10 FEET

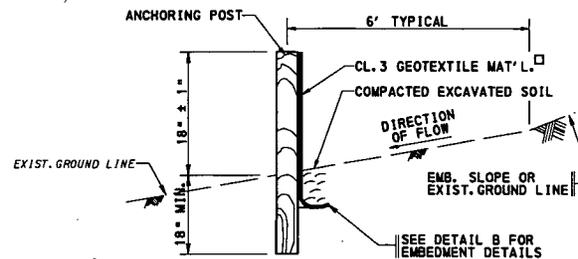
- A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
- B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.



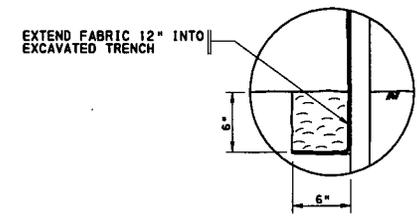
JOINING FENCE SECTIONS



SILT BARRIER FENCE - 30" HIGH



SILT BARRIER FENCE - 18" HIGH



**DETAIL B
SILT BARRIER FENCE**

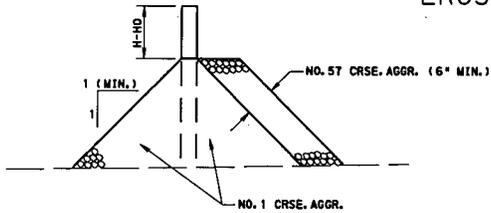
LEGEND

- CLASS 3A - 8'-0" MAX. POST SPACING
- CLASS 3B - 4'-0" MAX. POST SPACING

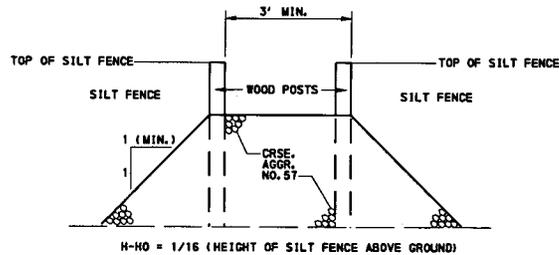
EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (USED FOR IN-STREAM WORK)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				3 OF 13
IN-STREAM EAS BMPs				
REVISION	REVISIONS	DATE	BY	
		12/09	NK	

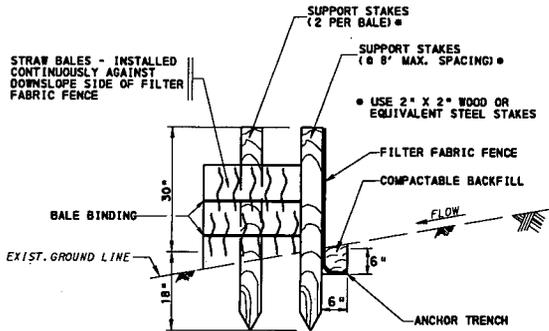
SILT FENCE ROCK FILTER OUTLET



1. SILT FENCING MUST BE INSTALLED PARALLEL TO EXISTING CONTOURS OR CONSTRUCTED ON LEVEL ALIGNMENTS. ENDS OF FENCING MUST BE EXTENDED AT LEAST 8 FEET, TRAVELING UP SLOPE AT 45 TO THE ALIGNMENT OF THE MAIN FENCING SECTION.
2. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE GROUND HEIGHT OF SILT FENCING.
3. ANY SILT FENCING IN LOW AREAS THAT IS COLLAPSED BY PONDED WATER WILL BE REPLACED WITH ROCK FILTER OUTLETS IMMEDIATELY.



SILT FENCING - ROCK FILTER OUTLET DETAIL



FILTER FABRIC FENCE REINFORCED BY STAKED STRAW BALES

FILTER FABRIC FENCE MUST BE INSTALLED AT EXISTING LEVEL GRADE. BOTH SIDES OF EACH FENCE SECTION MUST BE AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. (SEE SILT FENCE ROCK FILTER OUTLET)

NOTES:

INSTALL SILT FENCE ROCK FILTER OUTLETS TO PREVENT UNDERMINING OR OVERTOPPING OF THE SILT BARRIER FENCE IN AREAS OF CONCENTRATED FLOWS OR PONDED WATER. ROCK FILTERS WILL BE INSTALLED PER SPECIFICATION AS A SILT BARRIER FENCE MAINTENANCE MEASURE.

NOTE: THE PROJECT ENGINEER, PROJECT ENVIRONMENTAL MANAGER AND ACCEPTABLE COUNTY CONSERVATION DISTRICT MUST APPROVE ANY MODIFICATION TO THIS SPECIFICATION.

INSTALLATION

INSTALL ROCK FILTER OUTLETS AS PER SPECIFICATION. ROCK FILTERS WILL BE INSTALLED DURING SILT BARRIER FENCE MAINTENANCE IN AREAS WITH PONDED WATER OR CONCENTRATED FLOWS AND AREAS WHERE THE SILT BARRIER FENCE HAS BEEN UNDERMINED OR OVERTOPPED WITH SEDIMENT.

MAINTENANCE - DAILY AND FOLLOWING EACH MEASURABLE RAIN EVENT

THE NO. 1 AND NO. 57 COARSE AGGREGATE MUST BE MAINTAINED TO PREVENT OVERTOPPING OF THE ROCK FILTER.

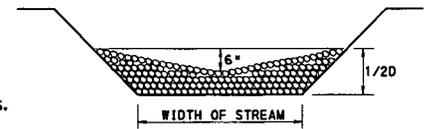
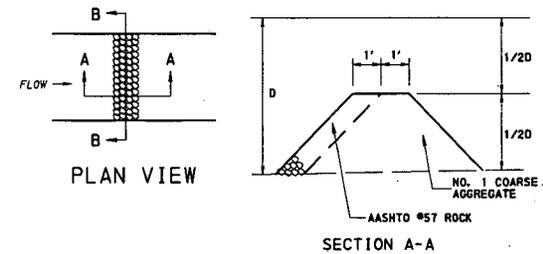
REMOVE THE ACCUMULATED SEDIMENT FROM THE ROCK FILTER TO MAINTAIN THE FLOW OF WATER THROUGH THE FILTER. DEPOSIT ACCUMULATED SEDIMENT WITHIN THE DISTURBANCE AREA. STABILIZE DISTURBED AREAS AS PER THE STABILIZATION SPECIFICATION.

SITE CLOSURE AND INSPECTION

FOLLOWING EARTH DISTURBANCE ACTIVITIES, THE SILT BARRIER FENCE AND ROCK FILTER OUTLETS MUST BE INSPECTED AND MAINTAINED WEEKLY AND AFTER EACH MEASURABLE RAIN EVENT. SEE STABILIZATION SPECIFICATION.

FOLLOWING SITE STABILIZATION, ALL COARSE AGGREGATE WILL BE REMOVED AND DISPOSED OF IN A PROPER FASHION.

SMALL ROCK FILTER (IN CHANNEL)



CROSS SECTION SECTION B-B

ROCK FILTER NOTES

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTER. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

CENTER MUST BE LOWER THAN SIDES TO DIRECT HIGH WATER OVERFLOW AWAY FROM STREAM BANK. CENTER IS TYPICALLY 6" LOWER THAN SIDES.

THIS FILTER MAY ONLY BE USED IN CONJUNCTION WITH METHODS 2 OR 3 AND TO FILTER RUNOFF FROM WITHIN A DIVERTED CHANNEL.

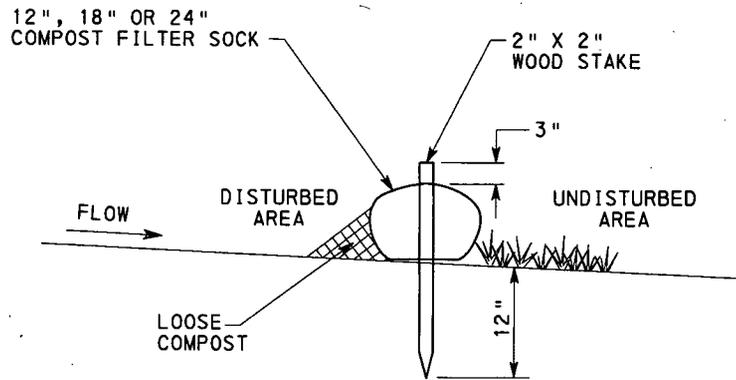
EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK BEST MANAGEMENT PRACTICES (BMPs)

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

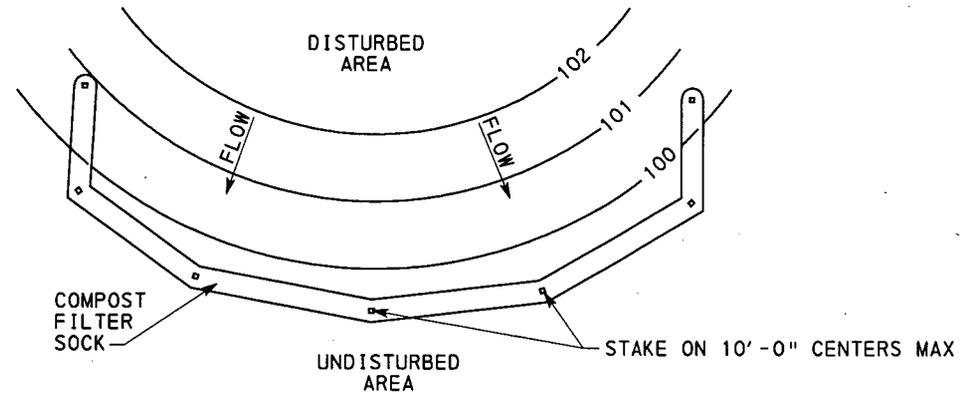
- I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
 (USED FOR IN-STREAM WORK)
COMPOST FILTER SOCK

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				4 OF 13
IN-STREAM E&S BMPs				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	



SECTION VIEW



PLAN VIEW

NOTES:

INSTALL COMPOST FILTER SOCK TO PREVENT SEDIMENT-LADEN WATER FROM TRAVELLING OFF SITE. COMPOST FILTER SOCK WILL BE INSTALLED PER SPECIFICATION PRIOR TO ANY EARTH DISTURBANCE ACTIVITIES.

NOTE: THE PROJECT ENGINEER, PROJECT ENVIRONMENTAL MANAGER AND THE APPLICABLE COUNTY CONSERVATION DISTRICT MUST APPROVE ANY MODIFICATION TO THIS SPECIFICATION.

INSTALLATION:

PLACE COMPOST FILTER SOCK ON LEVEL GRADE. EXTEND BOTH ENDS OF THE COMPOST FILTER SOCK AT LEAST 8' - 0" UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT.

MAINTENANCE - WEEKLY (AND FOLLOWING EACH MEASURABLE RAIN EVENT):

REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK. REPLACE BIODEGRADABLE FILTER SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS

SITE CLOSURE AND INSPECTION

FOLLOWING EARTH DISTURBANCE ACTIVITIES, THE SILT BARRIER FENCE MUST BE INSPECTED AND MAINTAINED WEEKLY, AND AFTER EACH MEASURABLE RAIN EVENT. FOLLOWING SITE STABILIZATION, THE COMPOST FILTER SOCK WILL BE REMOVED AND DISPOSED OF IN A PROPER FASHION.

EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK BEST MANAGEMENT PRACTICES (BMPs)

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

- I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
(USED FOR IN-STREAM WORK)

ROCK CONSTRUCTION ENTRANCE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				5 OF 13
IN-STREAM E&S BMP#				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	

NOTES:

INSTALL ROCK CONSTRUCTION ENTRANCE TO ALLOW FOR TRANSITION BETWEEN VEGETATED AND PAVED AREAS. CONSTRUCTION ENTRANCE MUST BE INSTALLED PRIOR TO EARTH DISTURBANCE ACTIVITIES AS PART OF SITE PREPARATION.

NOTE: THE PROJECT ENGINEER, PROJECT ENVIRONMENT MANAGER AND THE APPLICABLE COUNTY CONSERVATIVE DISTRICT MUST APPROVE ANY MODIFICATION TO THIS SPECIFICATION.

INSTALLATION:

LAY OUT GEOTEXTILE MATERIAL TO ACCOMODATE THE DIMENSIONS AS SPECIFIED. PLACE ROCK ON GEOTEXTILE TO PROVIDE FOR CONSTRUCTION ENTRANCE SURFACE.

FOR NARROW OR SHORT ACCESS AREAS, THE LENGTH OF CONSTRUCTION ENTRANCE MAY BE MODIFIED TO CORRESPOND TO THE TOTAL LENGTH OF ACCESS. THIS WOULD APPLY TO SITUATIONS WHERE THE TOTAL LENGTH OF ACCESS IS LESS THAN 50 FEET. AN EXAMPLE WOULD BE WHERE THE TOTAL LENGTH OF THE ACCESS IS 30 FEET, SPANNING THE DISTANCE BETWEEN A PAVED ROADWAY AND THE TOP OF A STREAM BANK WHERE EQUIPMENT WOULD BE STAGED. ACCESS INTO WET AREAS MAY NOT BE CONDUCTIVE TO EXTENDING THE ROCK AND GEOTEXTILE.

A ROCK CONSTRUCTION ENTRANCE MAY BE SHORTENED, AND A COMBINATION OF ALTERNATIVE METHODS (SUCH AS SWAMP PADS OR WETLAND CROSSING MATS) MAY BE UTILIZED, WHERE WET AREAS PROHIBIT THE RECOVERY OF THE ROCK CONSTRUCTION ENTRANCE MATERIALS AFTER COMPLETION OF THE ACCESS/ACTIVITY.

MAINTENANCE: -WEEKLY (AND FOLLOWING EACH MEASURABLE RAIN EVENT)

ROCK CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS UTILIZING AASHTO #1 ROCK OR LARGER.

AT THE END OF THE WORKDAY, ALL SEDIMENT/SOIL DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE DISTURBED AREA/SITE. WASHING OF THE ROADWAY IS NOT PERMITTED.

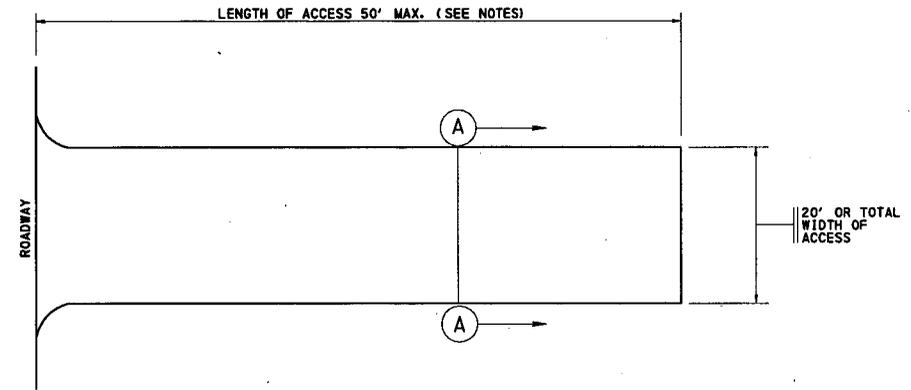
SITE CLOSURE AND INSPECTION:

THE ROCK CONSTRUCTION ENTRANCE WILL BE REMOVED AFTER EARTH DISTURBANCE ACTIVITIES HAVE BEEN COMPLETED AND VEHICLES AND/OR EXCAVATING EQUIPMENT WILL NO LONGER ACCESS THE SITE.

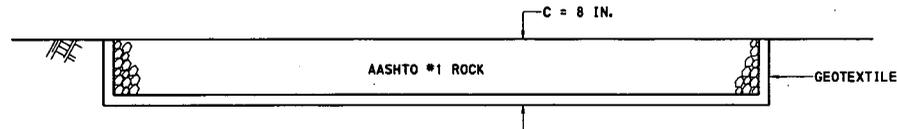
ALL ROCK THAT HAS BEEN DEPOSITED IN THE ENTRANCE WILL BE REMOVED. THE GEOTEXTILE MUST BE REMOVED AND PROPERLY DISPOSED OF. THE AREA WHERE THE ENTRANCE WAS LOCATED MUST BE STABILIZED WITH SEED AND MULCH AS PER STABILIZATION SPECIFICATIONS.

SEEDING AND MULCH WILL BE INSPECTED IN ACCORDANCE WITH THE STABILIZATION SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE ROCK CONSTRUCTION ENTRANCE. INSPECTIONS WILL BE PERFORMED BY THE PENNDOT PROJECT ENGINEER, THE CONSULTANT PROJECT MANAGER OR A DESIGNATED CONSTRUCTION INSPECTOR.

SITE CLOSURE WILL ONLY BE AUTHORIZED BY THE PENNDOT PROJECT ENGINEER. CLOSURE AND ACCEPTANCE OF THE SITE MAY AFFECT ACCEPTANCE OF THE OVERALL PROJECT.



PLAN VIEW



SECTION A-A

ROCK CONSTRUCTION ENTRANCE

**EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK
BEST MANAGEMENT PRACTICES (BMPs)**

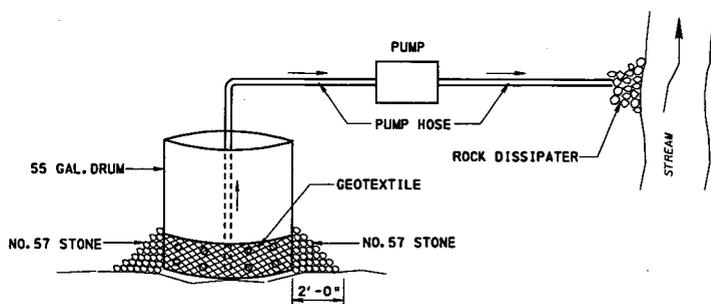
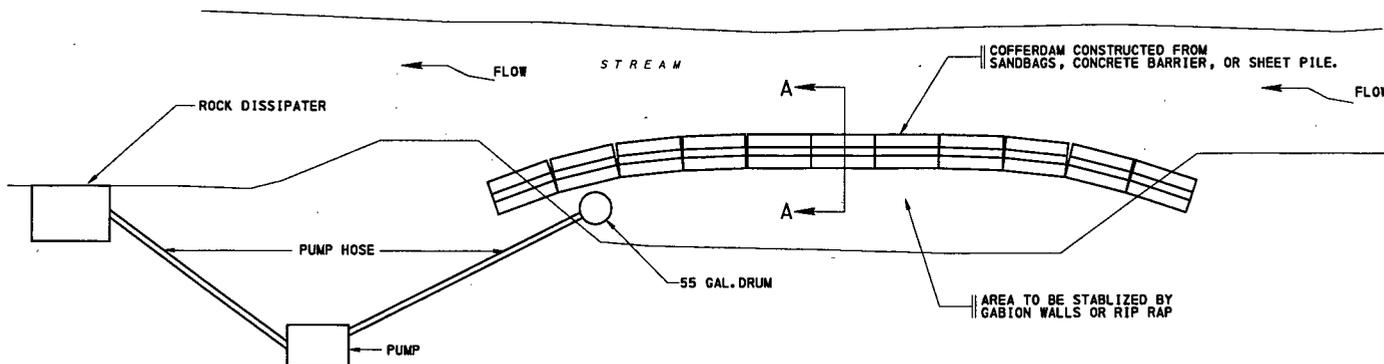
NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

- I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

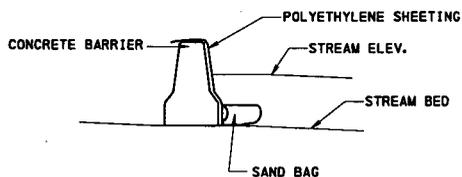
EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
(USED FOR IN-STREAM WORK)

METHOD 1A - COFFERDAM WITH FILTER BARREL

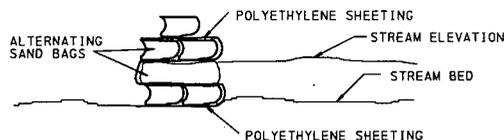
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				6 OF 13
IN-STREAM E&S BMPs				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	



E&S STANDARD



SECTION A-A
COFFERDAM



ALTERNATIVE
SECTION A-A

NOTES:

1. COFFERDAM IS PLACED WITHIN THE CHANNEL TO DIVERT THE FLOW OF THE STREAM AWAY FROM, AND ISOLATE, THE WORK AREA. NO EXCAVATION OR EQUIPMENT IS PERMITTED WITHIN THE FLOW OF THE WATERCOURSE.
2. FILTER BARREL IS PLACED WITHIN THE ISOLATED WORK AREA TO REMOVE AND FILTER SEDIMENT-LADEN WATER FROM THE WORK AREA. THE BARREL SHOULD BE PLACED ON THE DOWNSTREAM SIDE OF THE COFFERDAM. A SMALL AREA MAY NEED TO BE EXCAVATED SO THAT ALL THE WATER FROM THE WORK AREA FLOWS TOWARD THE BARREL. THE WATER IS DISCHARGED ONTO A ROCK DISSIPATER TO PREVENT SCOURING. THE SEDIMENT-LADEN WATER IS FILTERED FIRST THROUGH THE STONE, AND THEN THROUGH THE PERMEABLE GEOTEXTILE MEMBRANE BEFORE BEING PUMPED OUT OF THE BARREL. THE STONE SURROUNDING THE FILTER BARREL SHOULD BE PERIODICALLY AGITATED TO PREVENT CLOGGING OF THE FILTER.

NOTES:

1. TO DEWATER COFFERDAM, DEWATER WITH 55 GALLON DRUM AND PUMPING DEVICE.
2. DRILL A SERIES OF 1" HOLES ON BOTTOM FOURTH OF DRUM AND WRAP WITH A PERMEABLE GEOTEXTILE. EXCAVATE SMALL AREA LARGE ENOUGH FOR 55 GALLON DRUM AND #57 STONE. PLACE DRUM IN EXCAVATED AREA. SURROUND WITH #57 (OR EQUIVALENT) STONE. THIS AREA MUST BE ON DOWNSTREAM SIDE OF COFFERDAM AND MUST BE THE LOWEST POINT SO THAT ALL WATER THAT SEEPS THROUGH COFFERDAM FLOWS TO DRUM.
3. PLACE PUMP HOSE IN BOTTOM OF DRUM AND PUMP FILTERED WATER TO ROCK DISSIPATER ADJACENT TO STREAM.
4. ROCK DISSIPATER SHOULD BE LARGE ENOUGH TO PREVENT SCOURING. IT SHOULD BE PLACED ADJACENT TO STREAM SO THAT WATER FLOWS BACK INTO STREAM.
5. REMOVE ALL CONTROLS FROM PROJECT AREA AFTER COMPLETION OF WORK AND AREA IS STABILIZED.

EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK
BEST MANAGEMENT PRACTICES (BMPs)

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \geq 10 FEET

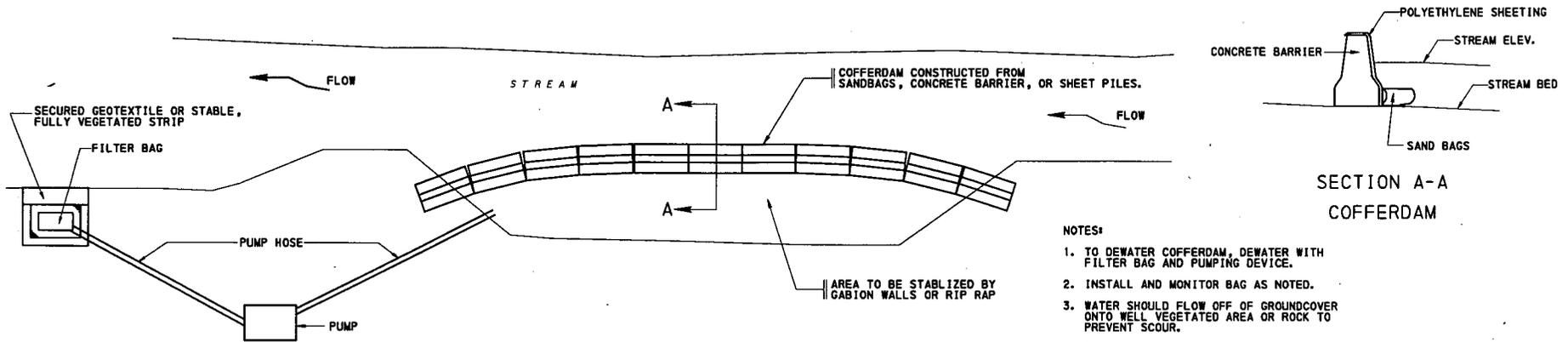
A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.

B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
(USED FOR IN-STREAM WORK)

METHOD 1B - COFFERDAM WITH SEDIMENT FILTER BAG

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				7 OF 13
IN STREAM E&S BMPs				
REVISION	REVISIONS	DATE	BY	
		12/05	NK	



SECTION A-A
COFFERDAM

NOTES:

1. TO DEWATER COFFERDAM, DEWATER WITH FILTER BAG AND PUMPING DEVICE.
2. INSTALL AND MONITOR BAG AS NOTED.
3. WATER SHOULD FLOW OFF OF GROUND COVER ONTO WELL VEGETATED AREA OR ROCK TO PREVENT SCOUR.
4. REMOVE ALL CONTROLS FROM PROJECT AREA AFTER COMPLETION OF WORK AND AREA IS STABILIZED.
5. SEED AND MULCH TO ESTABLISH VEGETATIVE COVER AS PER STABILIZATION SPECIFICATION.

NOTES:

1. COFFERDAM IS PLACED WITHIN THE CHANNEL TO DIVERT THE FLOW OF THE STREAM AWAY FROM, AND ISOLATE, THE WORK AREA. NO EXCAVATION OR EQUIPMENT IS PERMITTED WITHIN THE FLOW OF THE WATERCOURSE.
2. SEDIMENT-LADEN WATER IS PUMPED OUT OF THE WORK AREA INTO A NON-WOVEN GEOTEXTILE FILTER BAG. THE WATER IS THEN FILTERED AS IT SEEPS OUT OF THE BAG AND FLOWS ACROSS A VEGETATED OR GEOTEXTILE COVERED AREA BEFORE REENTERING THE WATERCOURSE BELOW THE WORK AREA.

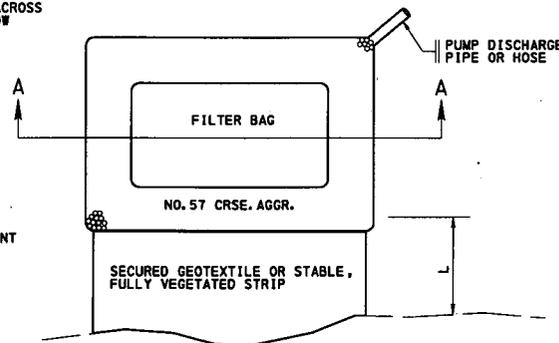
NOTES:

PLACE SEDIMENT FILTER BAG ON A FLAT STABILIZED AREA OVER A BED OF NO. 57 COURSE AGGREGATE OR ON A FLAT, WELL VEGETATED AREA. DO NOT PLACE SEDIMENT FILTER BAG IN WETLANDS OR ALLOW DISCHARGE TO FLOW INTO THE WORK ZONE. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

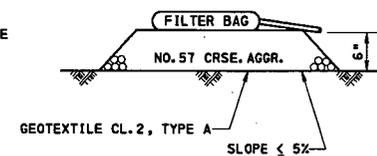
USE A PUMP WITH A RATING IN GALLONS PER MINUTE NOT TO EXCEED 50 PERCENT OF THE MAXIMUM FLOW RATE LISTED ON THE BAG LABEL OR A MAXIMUM OF 4" DIAMETER HOSE OR PIPE. DOUBLE CLAMP (BAND CLAMPS) THE PUMP DISCHARGE HOSE FIRMLY TO THE BAG. MONITOR AND EVALUATE THE ENTIRE PUMPING OPERATION TO ENSURE THAT THE BAG CONTINUES TO FUNCTION PROPERLY.

REPLACE THE BAG WHEN THE CONTAINED SILT REDUCES THE BAGS FLOW TO APPROXIMATELY 50 PERCENT OF THE RATE OF THE INITIAL DISCHARGE, OR WHEN DIRECTED BY THE INSPECTOR-IN-CHARGE. PROPERLY DISPOSE OF THE SEDIMENT AND THE COURSE AGGREGATE BED IN A MANNER SATISFACTORY TO THE ENGINEER. PROVIDE A NEW COURSE AGGREGATE BED FOR EACH SEDIMENT FILTER BAG.

FOR STREAM BANK PROTECTION PLACE FILTER BAG ADJACENT TO A WELL VEGETATED STREAM BANK AREA. UTILIZE GEOTEXTILE TO PROVIDE ADDITIONAL STREAM BANK PROTECTION IF EROSION OCCURS. GEOTEXTILE MAY EXTEND DOWN THE STREAM BANK TO THE STREAM IF VEGETATION IS INSUFFICIENT TO PREVENT EROSION OR IF HEAVY FLOODS RESULT IN STREAM BANK EROSION. GEOTEXTILE MUST BE PROPERLY SECURED WITH STAPLES OR STAKES. REMOVE ALL ROCK AND GEOTEXTILE FOLLOWING THE WORK ACTIVITY. STABILIZE STREAM BANK WHERE EROSION HAS OCCURRED. (SEE STABILIZATION SPECIFICATION)



SEDIMENT FILTER BAG



SECTION A-A

CONDITION OF GROUND SUPPORTING AND ADJACENT TO FILTER BAG	L (FT)
DENSE GRASS	3
SPARSE GROUND COVER OR BASE GROUND	6

EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK BEST MANAGEMENT PRACTICES (BMPs)

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

1. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
(USED FOR IN-STREAM WORK)
METHOD 2 - COFFERDAM DEWATERING DEVICE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				8 OF 13
IN-STREAM E&S BMPs				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	

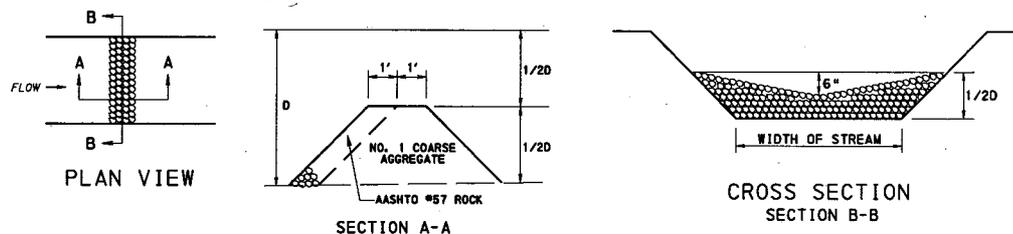
NOTES:

1. A DAM IS CONSTRUCTED PERPENDICULAR TO THE STREAM CHANNEL TO PREVENT THE FREE FLOW OF WATER THROUGH THE WORK AREA. THE WATER IS PUMPED FROM THE UPSTREAM END OF THE DAM AROUND THE WORK AREA AND DISCHARGED ONTO A ROCK DISSIPATOR.
 2. THE DAM IS CONSTRUCTED SO THAT ANY HIGH FLOW/STORM EVENT WATER WILL OVERTOP THE CENTER, PREVENTING BANK SCOUR.
 3. THE WATER NEVER ENTERS THE WORK AREA AND IS ALREADY FREE OF SEDIMENT SO A FILTER SYSTEM IS NOT UTILIZED.
- NOTE: THE ORIENTATION OF THE COFFERDAM OR DAM MAY VARY. IT IS THE INTENT OF THESE PRACTICES TO EITHER PREVENT WATER FROM FLOWING INTO THE WORK AREA OR FILTER SEDIMENT-LADEN WATER AS IT IS REMOVED FROM THE WORK AREA, PRIOR TO BEING DISCHARGED.
- NOTE: A ROCK FILTER MUST BE PLACED WITHIN THE STREAM CHANNEL DOWNSTREAM FROM THE WORK AREA, BUT ABOVE THE DISCHARGE AREA TO FILTER ANY RUNOFF FROM THE WORK AREA. THIS FILTER WILL ALSO PREVENT THE BACKFLOW OF WATER INTO THE WORK/EXCAVATION AREA.

NOTES:

1. PLACE SANDBAGS/PLYWOOD/JERSEY BARRIERS/SHEET PILES IN STREAM ABOVE WORK AREA. THE DAM SHOULD PREVENT MOST WATER FROM SEEPING INTO THE WORK AREA.
2. PUMP WATER BELOW WORK AREA.
3. PUMP "CLEAN" WATER INTO ROCK DISSIPATOR TO PREVENT EROSION. PLACE SMALL ROCK FILTER BELOW WORK AREA BUT UPSTREAM OF ROCK DISSIPATOR.
4. PLACE ROCK FILTER DOWNSTREAM OF WORK AREA AND UPSTREAM OF ROCK DISSIPATOR.
5. STABILIZED WALL SHOULD BE BENCHED IN BELOW THE STREAM BED TO PREVENT SCOURING UNDER WALL.
6. THE DAM SHOULD BE SLIGHTLY LOWER IN THE CENTER. IF STREAM LEVEL RISES, WATER WILL OVERTOP IN THE CENTER INSTEAD OF SIDES. THIS WILL PREVENT SCOURING ON BANKS.
7. REMOVE ALL CONTROLS FROM PROJECT AREA AFTER COMPLETION OF WORK AND AREA IS STABILIZED.

**SMALL ROCK FILTER
(IN CHANNEL)**



ROCK FILTER NOTES

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTER. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

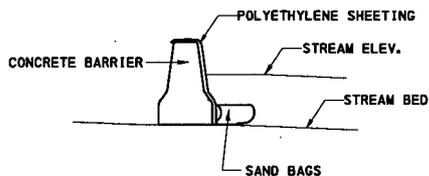
CENTER MUST BE LOWER THAN SIDES TO DIRECT HIGH WATER OVERFLOW AWAY FROM STREAM BANK. CENTER IS TYPICALLY 6" LOWER THAN SIDES.

THIS FILTER MAY ONLY BE USED IN CONJUNCTION WITH METHODS 2 OR 3 AND TO FILTER RUNOFF FROM WITHIN A DIVERTED CHANNEL.

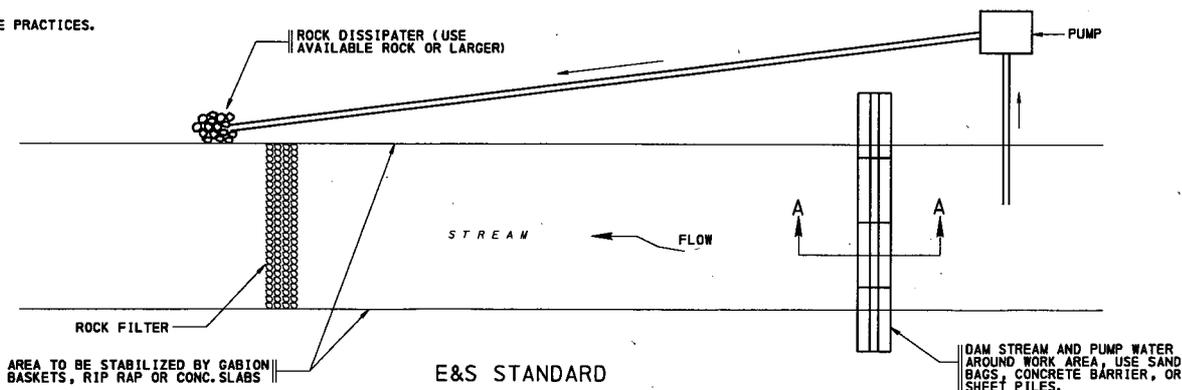
**EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK
BEST MANAGEMENT PRACTICES (BMPs)**

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

1. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.



**SECTION A-A
COFFERDAM**

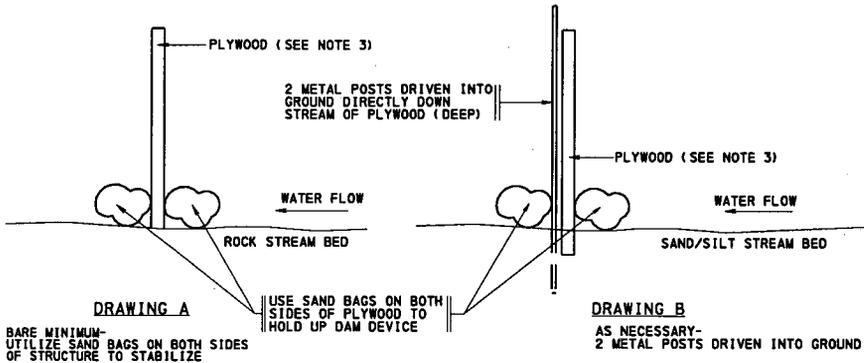


AREA TO BE STABILIZED BY CABTON BASKETS, RIP RAP OR CONC. SLABS

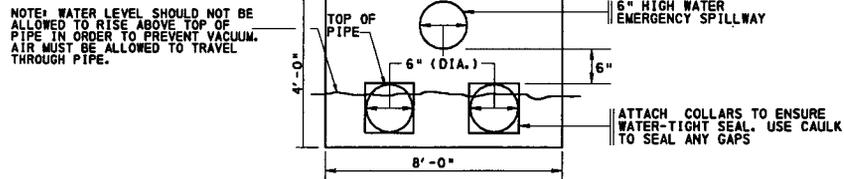
DAM STREAM AND PUMP WATER AROUND WORK AREA. USE SAND BAGS, CONCRETE BARRIER, OR SHEET PILES.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (USED FOR IN-STREAM WORK) METHOD 3 - STREAM FLUME

DISTRICT 11	COUNTY	ROUTE	SECTION	SHEET 9 OF 13
IN-STREAM ERS BMPs				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	



NOT TO SCALE



DAM DEVICE FOR STREAM FLUME

1. A DAM/FLUME DEVICE IS CONSTRUCTED WITHIN THE CHANNEL AND THE WATER IS CARRIED BY GRAVITY THROUGH PIPES AND BEYOND THE WORK AREA. THE PIPES DISCHARGE ONTO ROCK DISSIPATORS WITHIN THE CHANNEL TO PREVENT SCOUR.
2. THE DAM/FLUME DEVICE IS TRENCHED BELOW THE STREAMBED AND SUPPORTED WITH SAND BAGS. THE WATER LEVEL BUILDS BEHIND THE DAM AND PROVIDES THE PRESSURE NECESSARY TO PASS THROUGH THE PIPES.

NOTE: A ROCK FILTER MUST BE PLACED WITHIN THE STREAM CHANNEL DOWNSTREAM FROM THE WORK AREA, BUT ABOVE THE DISCHARGE AREA, TO FILTER ANY RUNOFF FROM THE WORK AREA. THIS FILTER WILL ALSO PREVENT THE BACKFLOW OF WATER INTO THE WORK/EXCAVATION AREA.

EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK BEST MANAGEMENT PRACTICES (BMPs)

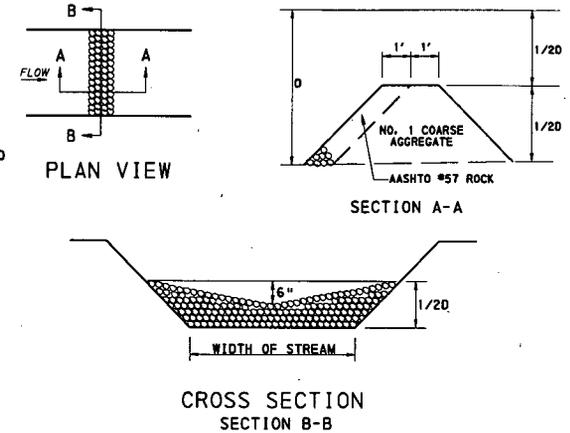
NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

1. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

NOTES:

1. USE 1.22M X 2.44M (4' X 8') SHEET OF TREATED/MARINE GRADE PLYWOOD FOR STRUCTURE. THIS WILL BE USED ON SMALL STREAMS (WIDTH $<$ 3M (10') TO DAM STREAM AND RUN WATER BEYOND WORK AREA.
2. PLACE 2 HOLES TOWARD CENTER OF PLYWOOD FOR 152MM (6") CORRUGATED PLASTIC PIPE. THE BOTTOM OF THE HOLE SHOULD BE 102MM TO 152MM (4" TO 6") FROM THE BOTTOM OF THE PLYWOOD; 102MM (4") IF STREAM BOTTOM IS ROCK; 152.4MM (6") IF STREAM BOTTOM IS SANDY (SILTY).
3. STABILIZED WALL SHOULD BE BENCHED IN BELOW THE STREAM BED TO PREVENT SCOURING UNDER WALL. SMALL TRENCH, 50.8MM (2") TO 101.6MM (4") DEEP, SHOULD BE HAND DUG INTO STREAM BED TO PLACE DAM DEVICE (IF BOTTOM OF STREAM IS ROCK, SAND BAGS SHOULD BE USED).
4. TO PREVENT DAM DEVICE FROM FALLING OVER, SOME TYPE OF DEVICE SHOULD BE USED TO PREVENT THIS FROM OCCURRING SEE DRAWING "A" OR "B".
5. USE ADAPTORS/FITTINGS/COLLAR TO ENSURE A TIGHT FIT WHERE THE 152.4MM (6") PIPES GO INTO PLYWOOD, NO WATER SHOULD LEAK THROUGH THE DEVICE. USE CAULK TO SEAL ADAPTORS/FITTINGS/COLLARS.
6. WORK SHOULD BE DONE DURING LOW FLOW WHEN POSSIBLE.
7. FOR STREAM WIDER THAN 2.44M (8'), PLACE SAND BAGS ON BOTH SIDES OF PLYWOOD TO DAM REMAINDER OF STREAM.
8. OUTLET OF 152MM (6") PIPES MUST BE BELOW WORK AREA AND OUTLET ONTO ROCK DISSIPATORS.
9. WORK AREA SHOULD BE KEPT AS DRY AS POSSIBLE DURING BANK STABILIZATION. WORK SHOULD BE COMPLETED DURING LOW FLOW PERIODS WHEN POSSIBLE.
10. PLACE SMALL ROCK FILTER DOWNSTREAM OF WORK AREA AND UPSTREAM OF ROCK DISSIPATER.
11. REMOVE ALL CONTROLS AFTER COMPLETION OF WORK AND AREA IS STABILIZED.
12. DEPENDING UPON FLOW CONDITIONS, THREE 6" PIPES MAY BE REQUIRED TO CARRY WATER BEYOND WORK AREA.

SMALL ROCK FILTER (IN CHANNEL)

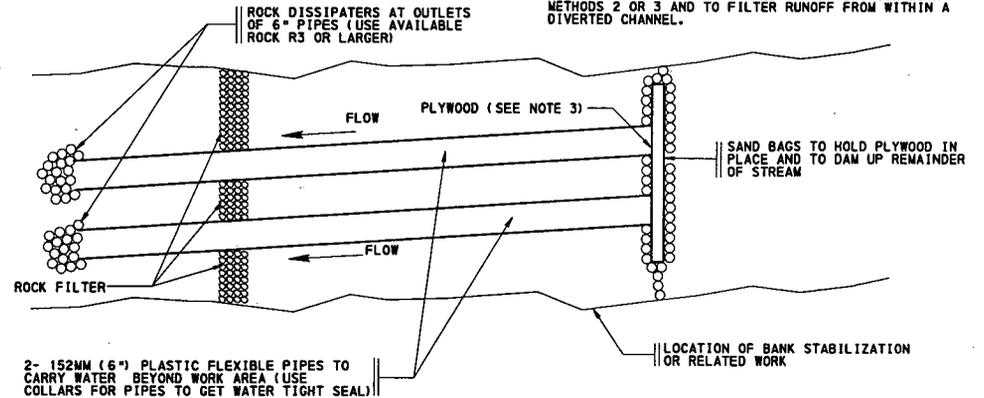


ROCK FILTER NOTES

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH $\frac{1}{4}$ THE HEIGHT OF THE FILTER. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

CENTER MUST BE LOWER THAN SIDES TO DIRECT HIGH WATER OVERFLOW AWAY FROM STREAM BANK. CENTER IS TYPICALLY 6" LOWER THAN SIDES.

THIS FILTER MAY ONLY BE USED IN CONJUNCTION WITH METHODS 2 OR 3 AND TO FILTER RUNOFF FROM WITHIN A DIVERTED CHANNEL.



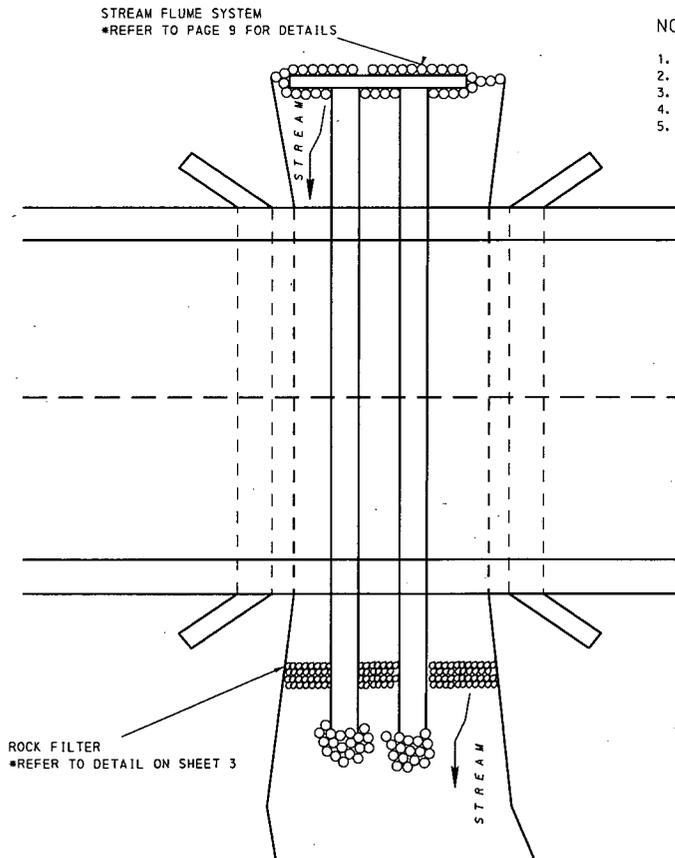
E & S STANDARD FOR DAM DEVICE AND FLUME SYSTEM

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
(USED FOR IN-STREAM WORK)

DETAIL FOR INSTALLING A CMP INSIDE A STRUCTURE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				10 OF 13
IN-STREAM E&S BMP#				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	

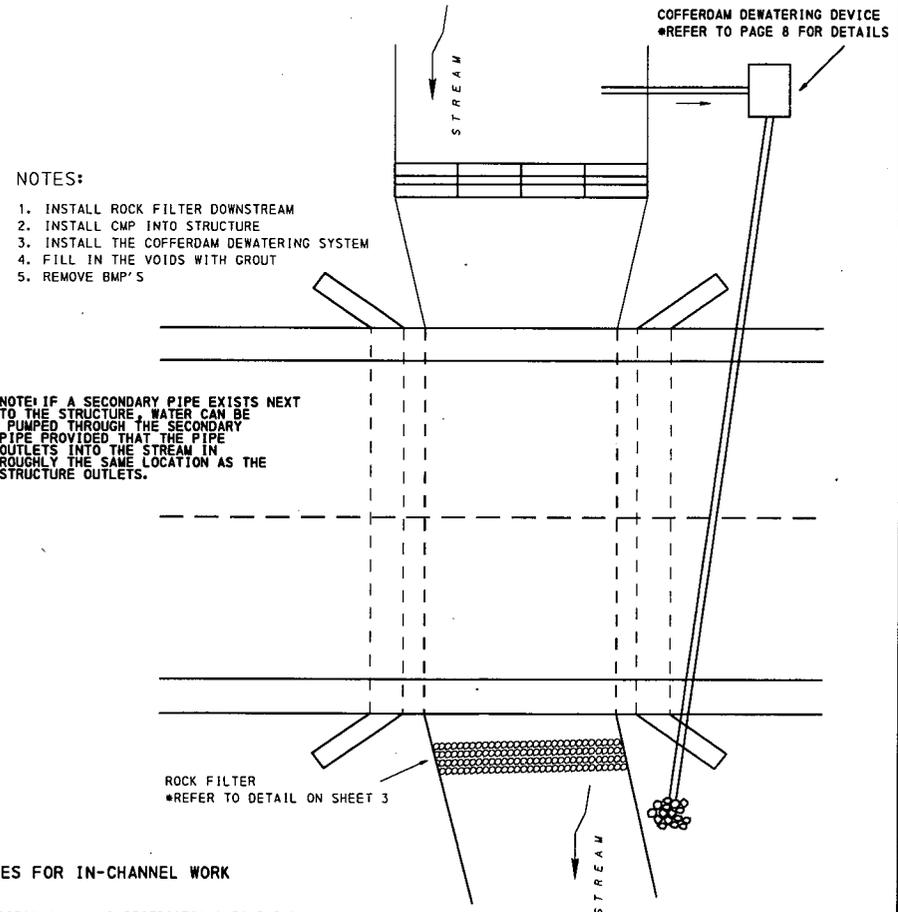
FLUME SYSTEM



NOTES:

1. INSTALL ROCK FILTER DOWNSTREAM
2. INSTALL CMP INTO STRUCTURE
3. INSTALL THE FLUME SYSTEM
4. FILL IN THE VOIDS WITH GROUT
5. REMOVE BMP'S

COFFERDAM DEWATERING DEVICE



NOTES:

1. INSTALL ROCK FILTER DOWNSTREAM
2. INSTALL CMP INTO STRUCTURE
3. INSTALL THE COFFERDAM DEWATERING SYSTEM
4. FILL IN THE VOIDS WITH GROUT
5. REMOVE BMP'S

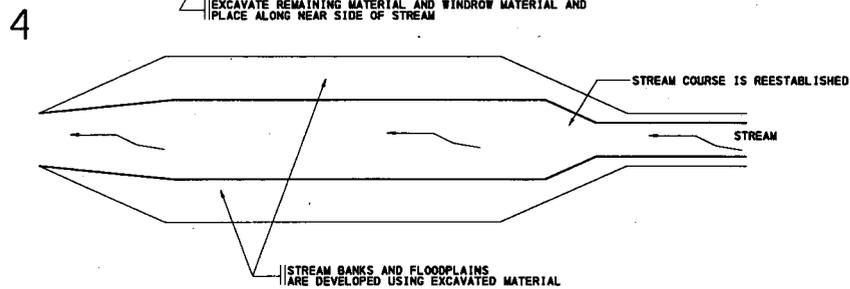
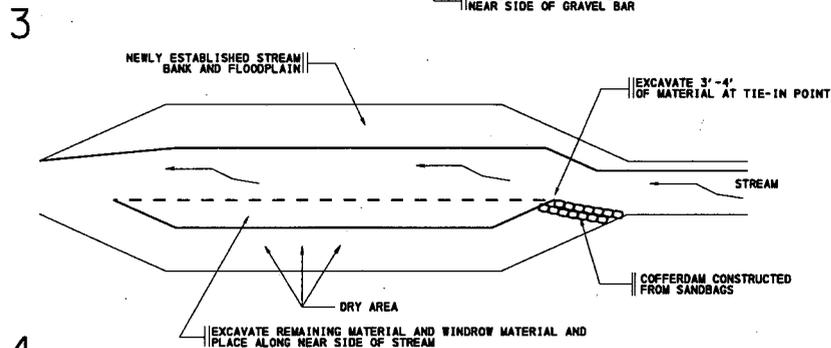
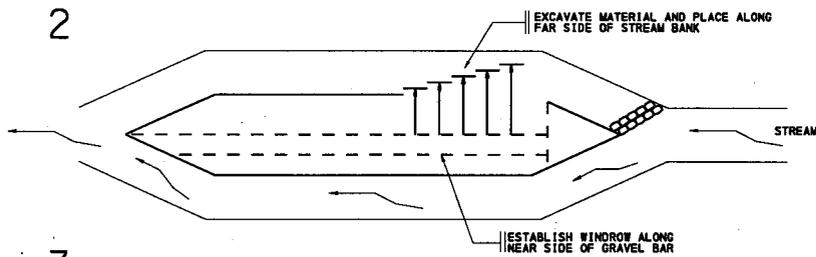
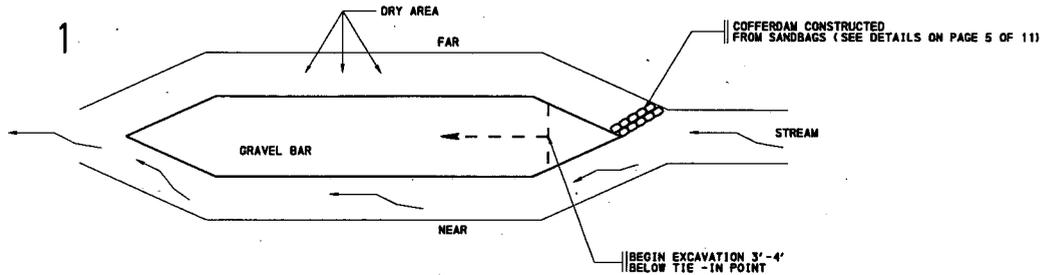
EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK
BEST MANAGEMENT PRACTICES (BMPs)

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

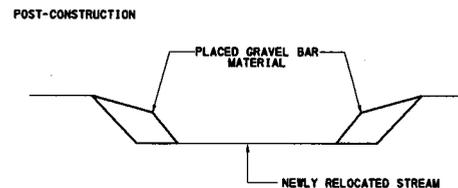
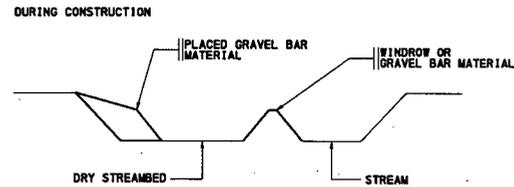
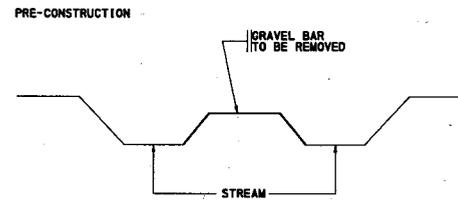
- I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (USED FOR IN-STREAM WORK) GRAVEL BAR REMOVAL - SPECIAL CONDITIONS

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				11 OF 13
IN-STREAM E&S BMP#				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	



CROSS SECTIONS:



CONSTRUCTION SEQUENCE

- 1 CONSTRUCT A COFFERDAM (WITH SANDBAGS) AT FAR SIDE OF STREAM-DIRECTING STREAM TO THE NEAR. ONCE STREAM IS DIVERTED, CROSS DRY STREAM BED TO ACCESS GRAVEL BAR.
- 2 BEGIN EXCAVATION AT UPSTREAM SIDE OF GRAVEL BAR, 3'-4' DOWNSTREAM OF TIE-IN POINT.
- 3 WORKING DOWNSTREAM, PLACING EXCAVATED MATERIAL ALONG FAR STREAM BANK AND ESTABLISH WINDROW ON REMAINING GRAVEL BAR.
- 4 EXCAVATE MATERIAL IN CULVERT AS NEEDED.
- 5 EXCAVATE THE 3'-4' FROM UPSTREAM AREA AND CONSTRUCT COFFERDAM (SANDBAGS) TO DIVERT STREAM TO NEWLY ESTABLISHED STREAM COURSE.
- 6 PULL WINDROW MATERIAL TO NEAR SIDE OF STREAM TO ESTABLISH FLOODPLAIN AREA AND PLACE MATERIAL BEHIND SANDBAGS TO ESTABLISH A PERMANENT DIVERSION. REMOVE SAND BAGS.

NOTES:

- DO NOT CROSS ANY FLOWING STREAM; WATER MUST BE DIVERTED PRIOR TO ANY IN-STREAM ACTIVITIES.
- PRIOR TO EXCAVATION, REMOVE VEGETATION FROM GRAVEL BAR AND SIDE CAST THE PLANTS; REPLACE VEGETATION ON NEWLY ESTABLISHED STREAM BANKS AFTER COMPLETION.
- REESTABLISH STREAM CONDITION (WIDTH) SIMILAR TO UPSTREAM- PROVIDE SOME POOL AND RIFFLE AREAS.

EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK BEST MANAGEMENT PRACTICES (BMPs)

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

- I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
(USED FOR IN-STREAM WORK)
STABILIZATION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				12 OF 13
IN-STREAM E&S BMPs				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	

NOTES:

THE FOLLOWING SEEDING AND MULCH SPECIFICATIONS MAY BE FURTHER REFERENCED IN PENNDOT PUBLICATION 408 SECTIONS 800, 801, 802, 803, 804 AND 805.

DISTURBED AREAS WILL BE SEEDED AND MULCHED AS PER THE FOLLOWING SPECIFICATIONS IN ORDER TO STABILIZE ANY EARTH DISTURBANCE AND PROVIDE A NATURAL COVER FOR THE SITE FOLLOWING EARTH DISTURBANCE.

SLOPES GREATER THAN 3:1 WILL REQUIRE THE USE OF MULCH CONTROL NETTING OR COCONUT COIR MAT FOR THE ESTABLISHMENT OF VEGETATION UPON THE SLOPE.

THE ACCEPTABLE STABILIZATION OF DISTURBED AREAS WILL ENTAIL A UNIFORM 70% PERENNIAL VEGETATIVE COVER.

INSTALLATION

A. TOPSOIL PLACEMENT

LOOSEN GRADED AREAS IN PREPARATION FOR TOPSOIL PLACEMENT AS PER PENNDOT PUBLICATION 408 SECTION 802. PLACE ACCEPTABLE TOPSOIL FROM OUTSIDE SOURCE OR STOCKPILE (SEE PENNDOT PUBLICATION 408 SECTIONS 801, 802 AND 803) TO ESTABLISH A MINIMUM TOPSOIL DEPTH OF DEPTH OF 4" - 6" MEASURED AFTER COMPACTION

B. SOIL SUPPLEMENTS

BLEND SOIL SUPPLEMENTS INTO TOPSOILED AREAS TO A DEPTH OF AT LEAST 2". THE BLENDING OF THE SUPPLEMENTS MAY BE PERFORMED DURING TILLAGE OPERATIONS. UTILIZE THE FOLLOWING:

SUPPLEMENT	APPLICATION RATE
PULVERIZED AGRICULTURAL LIMESTONE	800 POUNDS PER 1,000 SY
10-20-20 ANALYSIS COMMERCIAL FERTILIZER	140 POUNDS PER 1,000 SY

FOLLOWING THE APPLICATION OF THE SEED MIX APPLY ONE OF THE FOLLOWING

SUPPLEMENT	APPLICATION RATE
38-0-0 UREAFORM FERTILIZER	50 POUNDS PER 1,000 SY
32-0-0 TO 38-0-0 SULFUR COATED AREA FERTILIZER	59 TO 60 POUNDS PER 1,000 SY
31-0-0 IBDU FERTILIZER	61 POUNDS PER 1,000 SY

NOTE: HYDROSEEDING THAT COMBINES SOIL SUPPLEMENTS WITH THE SEED MIX AND A MULCH BINDER IS ACCEPTABLE. THE APPLICATION RATES MUST BE SPECIFIED AS PART OF THE E&S PLAN AND APPROVED BY THE PROJECT ENVIRONMENTAL MANAGER.

C. SEEDING

APPLY FORMULA B SEED MIX WITH APPLICABLE SOIL SUPPLEMENTS AS PER THE FOLLOWING TABLE:

FORMULA AND SPECIES	% BY MASS	MIN % PURITY	MIN % GERM.	MAX % WEED SEED	SEEDING RATE LBS PER 1000 SY
FORMULA B					21.0 TOTAL
- PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT	20	98	90	0.15	4.0
- CREEPING RED FESCUE OR CHEWING'S FESCUE	30	98	85	0.15	6.0
- KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 25% OF THE TOTAL BLUEGRASS COMPONENT	50	98	80	0.20	11.0

NOTE: HYDROSEEDING THAT COMBINES SOIL SUPPLEMENTS WITH THE SEED MIX AND A MULCH BINDER IS ACCEPTABLE. THE APPLICATION RATES MUST BE SPECIFIED AS PART OF THE E&S PLAN AND APPROVED BY THE PROJECT ENVIRONMENTAL MANAGER.

D. MULCH AND BINDER

APPLY MULCH AND BINDER UTILIZING MATERIALS AS SPECIFIED IN PENNDOT PUBLICATION 408 SECTION 805.

APPLY MULCH AT THE FOLLOWING RATE:

MULCH MATERIAL	APPLICATION RATE
HAY OR STRAW	1,200 POUNDS PER 1,000 SY MINIMUM INCREASE AS SPECIFIED BY PROJECT MANAGER

APPLY MULCH BINDER IN ACCORDANCE WITH THE FOLLOWING APPLICATION RATES:

MULCH BINDER MATERIAL	APPLICATION RATE
RECYCLED CELLULOSE FIBER	160 POUNDS PER 1,000 SY
WOOD FIBER	160 POUNDS PER 1,000 SY

NONASPHALTIC EMULSION	APPLICATION RATE
POLYVINYL ACETATE	AT MANUFACTURER'S RECOMMENDED RATE
RECYCLED CELLULOSE FIBER/WOOD FIBER MIXTURE	160 POUNDS PER 1,000 SY

WATER-IN SEED AND MULCH AFTER ITS APPLICATION.

NOTE: HYDROSEEDING THAT COMBINES SOIL SUPPLEMENTS WITH THE SEED MIX AND A MULCH BINDER IS ACCEPTABLE. THE APPLICATION RATES MUST BE SPECIFIED AS PART OF THE E&S PLAN AND APPROVED BY THE PROJECT ENVIRONMENTAL MANAGER.

NOTE: COIR MATTING THAT CONTAINS THE APPROPRIATE SEED MIX, BINDER AND FERTILIZER MAY BE SUBSTITUTED FOR BROADCAST APPLICATION. SEE EROSION CONTROL MATS AND MULCH BLANKETS.

E. MULCH CONTROL NETTING OR COCONUT COIR MATTING

CONTROL NETTING AND COIR MATTING ARE TO BE UTILIZED FOR THE STABILIZATION OF SLOPES GREATER THAN 3:1 THAT HAVE BEEN TREATED WITH SOIL SUPPLEMENTS AND SEED MIX.

UTILIZE MULCH CONTROL NETTING OR COCONUT COIR MAT OVER SEEDED AND MULCHED AREAS. SECURE NETTING AT A RATE OF 1 STAPLE PER SQUARE YARD.

NOTE: COIR MATTING THAT CONTAINS THE APPROPRIATE SEED MIX, BINDER AND FERTILIZER MAY BE SUBSTITUTED FOR BROADCAST APPLICATION. SEE EROSION CONTROL MATS AND MULCH BLANKETS.

F. HYDROSEEDING

HYDROSEEDING THAT COMBINES SOIL SUPPLEMENTS WITH THE SEED MIX AND A MULCH BINDER IS ACCEPTABLE. THE APPLICATION RATES MUST BE SPECIFIED AS PART OF THE E&S PLAN AND APPROVED BY THE PROJECT ENVIRONMENTAL MANAGER. FOLLOW ESTABLISHED GUIDELINES IN PENNDOT PUBLICATION 408 SECTION 805.

DO NOT HYDROSEED WITHIN 24 HOURS OF AN ANTICIPATED OR PAST RAINFALL.

G. EROSION CONTROL MATS AND MULCH BLANKETS

FOR SLOPED AREAS GREATER THAN 3:1, UTILIZE MATTING AND TACKIFIER TO SPECIFICATIONS OUTLINED IN PENNDOT PUBLICATION 408 SECTION 806.

MATTING MAY REPLACE OR ENHANCE THE SEPARATE APPLICATION OF SEED AND MULCH.

NOTE: MATS AND BLANKETS MUST BE IDENTIFIED IN WRITING AND APPROVED BY THE PROJECT ENVIRONMENTAL MANAGER PRIOR TO USE.

**EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK
BEST MANAGEMENT PRACTICES (BMPs)**

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

- I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH ≤ 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (USED FOR IN-STREAM WORK)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11				13 OF 13
IN-STREAM EAS BMPs				
REVISION NUMBER	REVISIONS	DATE	BY	
		12/09	NK	

STABILIZATION (CON'T. FROM PAGE 12 OF 13)

MAINTENANCE

INSPECT THE APPLIED SUPPLEMENTS, SEED, MULCH AND/OR MATTING WEEKLY AND FOLLOWING EACH RAIN EVENT. IMMEDIATELY REAPPLY TO BARREN AREAS.

CONSISTENT WASHOUT AREAS WILL REQUIRE ADDITIONAL TREATMENTS TO DECREASE WATER VELOCITY AND TO ENSURE THE BONDING OF THE SEED AND MULCH.

MAINTAIN APPLIED SUPPLEMENTS, TOPSOIL AND SEED UNTIL A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED OVER ALL DISTURBED AREAS.

SITE CLOSURE AND INSPECTION

FOLLOWING SITE ACTIVITIES, ALL STABILIZATION MEASURES AND BMPs ARE TO BE INSPECTED WEEKLY AND FOLLOWING EACH RAIN EVENT. THE CONTRACTOR WILL MAINTAIN THE STABILIZATION MEASURES AND BMPs IMMEDIATELY FOLLOWING THEIR INSPECTION UNTIL THE SITE IS CLOSED AND ACCEPTABLE TO THE DEPARTMENT.

ONCE A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED, ALL BMPs WILL BE REMOVED WHILE AVOIDING THE DISTURBANCES OF RECENTLY STABILIZED AREAS.

TO COMPLETE SITE CLOSURE, THE PROJECT ENGINEER AND PROJECT ENVIRONMENTAL MANAGER MUST BE NOTIFIED. THE CLOSURE OF A WASTE/BORROW AREA WILL BE CONTINGENT ON THE FINAL INSPECTION AND ACCEPTANCE OF THE OVERALL PROJECT BY PENNDOT.

CONTACT INFORMATION

CONTRACTOR: _____ NAME _____ PHONE _____

PENNDOT PROJECT MANAGER: _____ NAME _____ PHONE _____

PROJECT ENVIRONMENTAL MANAGER: _____ NAME _____ PHONE _____

FOR USE WITH HYDROSEED APPLICATION

MANUFACTURER	APPLICATION RATE

FOR USE WITH EROSION CONTROL MATS AND MULCH BLANKETS

TYPE / MANUFACTURER	THICKNESS

EROSION AND SEDIMENTATION MEASURES FOR IN-CHANNEL WORK BEST MANAGEMENT PRACTICES (BMPs)

NOTE: REFERENCE THE ASSOCIATED PERMIT FOR STIPULATIONS, MODIFICATIONS OR RESTRICTIONS TO THESE PRACTICES.

- I. SMALL STREAM CHANNELS - NORMAL FLOW WIDTH \leq 10 FEET
 - A. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS.
 - B. NORMAL FLOW SHOULD BE CONVEYED PAST THE WORK AREA BY A PIPE, CULVERT, DIVERSION CHANNEL AND/OR PUMP AND FILTER SYSTEM.

**Bridge / Structures Related Effective Policy Letters
For Contractor's Alternate Designs**

In addition to applicable portions of Design Manual Part 4, Pub 408, BC and BD standards, and AASHTO Bridge Specifications all applicable portions of the following design policy (strike-off) letters will apply for alternate designs developed by the contractor. These policy letters cover a variety of issues, concepts, and specifications. Unless specifically permitted by the Alternate Specifications Part A or Part B, the contractor is not permitted to utilize new concepts.

Number	Date	Subject
431-04-01	1/13/04	Quality Control of Design Submissions
431-06-01	1/24/06	Moratorium on Non-Composite Adjacent Prestressed Concrete Box Beam Bridges
431-09-14	12/2/09	Publication 15M, Design Manual Part 4 Change No. 1
431-10-12	8/29/10	Bridge Design Standards, BD-600M Series (Pub. 218M): September 2010 Edition
431-10-13	11/16/10	Bridge Construction Standards, BC-700M Series (Pub. 219M): October 2010 Edition
431-11-03	4/4/11	Publication 218M, BD-628M Modifications to Approach Slab Joints and Waterproofing Details Implementation into Active Projects in Construction
431-11-06	7/13/11	Modification to Publication 15M, Design Manual Part 4 Implementation Measures to Mitigate Corrosion Of Substructure J-Bar Reinforcement
431-11-08	7/29/11	Publication 15M, Design Manual Part 4 Addition of Section B 2.9P and Quality Assurance Form D-519 to Design Manual Part 4 for Construction Loading on Bridges
431-11-09	8/26/11	Publication 15M, Design Manual Part 4 Revision of Appendix J - Approved Commercially Available or Consultant - Developed Software
431-11-10	12/21/11	Summary of New Bridge and Structure Products
431-12-01	1/20/12	Publication 219M, BC-799M - Mechanically Stabilized Earth (MSE) Retaining Walls - Modifications to Drainage Pipe Requirements for 100-Year Design Life and Implementation into Active Projects
431-12-02	2/13/12	Implementation of AAAP Cement Concrete

PREVAILING WAGES PROJECT RATES

Project Name: T-395 Wampum Bridge #2

Awarding Agency: PENNDOT

Contract Award Date: 10/3/2012

Serial Number: 12-05193

Project Classification: Heavy/Highway

Determination Date: 8/22/2012

Assigned Field Office: Pittsburgh

Field Office Phone Number: 412-565-5300

Toll Free Phone Number: 877-504-8354

Lawrence County

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	8/1/2010		\$30.33	\$20.04	\$50.37
Asbestos & Insulation Workers	8/1/2011		\$31.63	\$20.04	\$51.67
Asbestos & Insulation Workers	8/1/2012		\$32.93	\$20.04	\$52.97
Boilermakers	6/1/2008		\$33.90	\$20.06	\$53.96
Boilermakers	8/1/2010		\$37.52	\$22.49	\$60.01
Boilermakers	6/1/2011		\$38.10	\$24.36	\$62.46
Bricklayers (Cement Masons)	12/1/2010		\$27.25	\$16.45	\$43.70
Bricklayers (Cement Masons)	6/1/2011		\$27.95	\$16.65	\$44.60
Bricklayers (Cement Masons)	12/1/2011		\$28.30	\$17.20	\$45.50
Carpenters, Soft Floor Layers	6/1/2009		\$26.84	\$11.00	\$37.84
Carpenters, Soft Floor Layers	6/1/2010		\$27.65	\$11.32	\$38.97
Carpenters, Soft Floor Layers	6/1/2011		\$28.48	\$11.65	\$40.13
Carpenters, Soft Floor Layers	6/1/2012		\$29.33	\$11.99	\$41.32
Dockbuilder, Pile Drivers	1/1/2010		\$29.95	\$12.25	\$42.20
Dockbuilder, Pile Drivers	1/1/2011		\$30.35	\$13.10	\$43.45
Dockbuilder, Pile Drivers	1/1/2012		\$30.85	\$13.70	\$44.55
Dockbuilder, Pile Drivers	1/1/2013		\$31.45	\$14.20	\$45.65
Drywall Finisher	6/1/2009		\$24.45	\$13.59	\$38.04

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Drywall Finisher	6/1/2010		\$24.55	\$14.49	\$39.04
Drywall Finisher	6/1/2011		\$25.00	\$15.04	\$40.04
Drywall Finisher	6/1/2012		\$25.55	\$15.49	\$41.04
Drywall Finisher	6/1/2013		\$26.15	\$15.89	\$42.04
Electric Lineman	3/1/2006		\$35.15	\$14.64	\$49.79
Electricians & Telecommunications Installation Technician	3/2/2009		\$29.20	\$18.67	\$47.87
Electricians & Telecommunications Installation Technician	12/28/2009		\$30.00	\$19.62	\$49.62
Electricians & Telecommunications Installation Technician	12/27/2010		\$30.85	\$20.52	\$51.37
Electricians & Telecommunications Installation Technician	12/26/2011		\$31.57	\$20.55	\$52.12
Elevator Constructor	1/1/2011		\$41.13	\$21.99	\$63.12
Elevator Constructor	1/1/2012		\$42.28	\$23.84	\$66.12
Glazier	6/1/2010		\$25.16	\$12.39	\$37.55
Glazier	6/1/2011		\$25.16	\$13.13	\$38.29
Glazier	6/1/2012		\$25.36	\$13.53	\$38.89
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2011		\$27.06	\$18.96	\$46.02
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2012		\$27.06	\$19.96	\$47.02
Laborers (Class 01 - General)	6/1/2009		\$20.92	\$9.27	\$30.19
Laborers (Class 01 - See notes)	6/1/2009		\$20.92	\$9.27	\$30.19
Laborers (Class 01 - See notes)	12/1/2009		\$20.92	\$9.72	\$30.64
Laborers (Class 01 - See notes)	6/1/2010		\$20.92	\$9.72	\$30.64
Laborers (Class 01 - See notes)	1/1/2011		\$20.92	\$10.26	\$31.18
Laborers (Class 01 - See notes)	1/1/2012		\$21.42	\$11.32	\$32.74
Laborers (Class 01 - See notes)	1/1/2013		\$21.67	\$12.12	\$33.79
Laborers (Class 01 - See notes)	1/1/2014		\$21.92	\$12.92	\$34.84
Laborers (Class 01 - See notes)	1/1/2015		\$22.17	\$13.72	\$35.89
Laborers (Class 02 - See notes)	6/1/2009		\$21.07	\$9.27	\$30.34
Laborers (Class 02 - See notes)	12/1/2009		\$21.07	\$9.72	\$30.79
Laborers (Class 02 - See notes)	6/1/2010		\$21.07	\$9.72	\$30.79
Laborers (Class 02 - See notes)	1/1/2011		\$21.07	\$10.26	\$31.33
Laborers (Class 02 - See notes)	1/1/2012		\$21.57	\$11.32	\$32.89

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 02 - See notes)	1/1/2013		\$21.82	\$12.12	\$33.94
Laborers (Class 02 - See notes)	1/1/2014		\$22.07	\$12.92	\$34.99
Laborers (Class 02 - See notes)	1/1/2015		\$22.32	\$13.72	\$36.04
Laborers (Class 03 - See notes)	6/1/2009		\$21.20	\$9.27	\$30.47
Laborers (Class 03 - See notes)	12/1/2009		\$21.20	\$9.72	\$30.92
Laborers (Class 03 - See notes)	6/1/2010		\$21.20	\$9.72	\$30.92
Laborers (Class 03 - See notes)	1/1/2011		\$21.20	\$10.26	\$31.46
Laborers (Class 03 - See notes)	1/1/2012		\$21.70	\$11.32	\$33.02
Laborers (Class 03 - See notes)	1/1/2013		\$21.95	\$12.12	\$34.07
Laborers (Class 03 - See notes)	1/1/2014		\$22.20	\$12.92	\$35.12
Laborers (Class 03 - See notes)	1/1/2015		\$22.45	\$13.72	\$36.17
Laborers (Class 04 - See notes)	6/1/2009		\$21.67	\$9.27	\$30.94
Laborers (Class 04 - See notes)	12/1/2009		\$21.67	\$9.72	\$31.39
Laborers (Class 04 - See notes)	6/1/2010		\$21.67	\$9.72	\$31.39
Laborers (Class 04 - See notes)	1/1/2011		\$21.67	\$10.26	\$31.93
Laborers (Class 04 - See notes)	1/1/2012		\$22.17	\$11.32	\$33.49
Laborers (Class 04 - See notes)	1/1/2013		\$22.42	\$12.12	\$34.54
Laborers (Class 04 - See notes)	1/1/2014		\$22.67	\$12.92	\$35.59
Laborers (Class 04 - See notes)	1/1/2015		\$22.92	\$13.72	\$36.64
Landscape Laborer	7/1/2009		\$18.25	\$9.05	\$27.30
Landscape Laborer	7/1/2010		\$18.25	\$9.90	\$28.15
Landscape Laborer (Skilled)	7/1/2009		\$18.67	\$9.05	\$27.72
Landscape Laborer (Skilled)	7/1/2010		\$18.67	\$9.90	\$28.57
Landscape Laborer (Tractor Operator)	7/1/2009		\$18.97	\$9.05	\$28.02
Landscape Laborer (Tractor Operator)	7/1/2010		\$18.97	\$9.90	\$28.87
Marble Finisher	6/1/2009		\$19.17	\$10.55	\$29.72
Marble Finisher	12/1/2009		\$19.32	\$11.05	\$30.37
Marble Finisher	6/1/2010		\$19.52	\$11.70	\$31.22
Marble Finisher	6/1/2011		\$20.57	\$11.85	\$32.42
Marble Finisher	12/1/2011		\$20.97	\$12.05	\$33.02
Marble Mason	6/1/2009		\$19.42	\$8.48	\$27.90

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Marble Mason	12/1/2009		\$19.42	\$8.91	\$28.33
Marble Mason	12/1/2011		\$19.42	\$9.60	\$29.02
Millwright	6/1/2011		\$34.42	\$15.08	\$49.50
Millwright	6/1/2012		\$35.89	\$16.11	\$52.00
Millwright	6/1/2013		\$36.49	\$16.76	\$53.25
Millwright	6/1/2014		\$37.35	\$17.15	\$54.50
Operators (Class 01 - see notes)	6/1/2009		\$28.99	\$14.80	\$43.79
Operators (Class 01 - see notes)	6/1/2010		\$30.22	\$15.32	\$45.54
Operators (Class 01 - see notes)	6/1/2011		\$31.05	\$15.80	\$46.85
Operators (Class 01 - see notes)	6/1/2012		\$32.09	\$17.45	\$49.54
Operators (Class 01 - see notes)	6/17/2012		\$31.59	\$16.80	\$48.39
Operators (Class 01 - see notes)	6/1/2014		\$32.59	\$18.10	\$50.69
Operators (Class 02 -see notes)	6/1/2009		\$25.80	\$14.80	\$40.60
Operators (Class 02 -see notes)	6/1/2010		\$26.78	\$15.32	\$42.10
Operators (Class 02 -see notes)	6/1/2011		\$27.36	\$15.80	\$43.16
Operators (Class 02 -see notes)	6/17/2012		\$27.66	\$16.80	\$44.46
Operators (Class 02 -see notes)	6/1/2013		\$28.01	\$17.45	\$45.46
Operators (Class 02 -see notes)	6/1/2014		\$28.36	\$18.10	\$46.46
Operators (Class 03 - see notes)	6/1/2009		\$24.08	\$14.80	\$38.88
Operators (Class 03 - see notes)	6/1/2010		\$25.06	\$15.32	\$40.38
Operators (Class 03 - see notes)	6/1/2011		\$25.64	\$15.80	\$41.44
Operators (Class 03 - see notes)	6/17/2012		\$25.84	\$16.80	\$42.64
Operators (Class 03 - see notes)	6/1/2013		\$26.09	\$17.45	\$43.54
Operators (Class 03 - see notes)	6/1/2014		\$26.34	\$18.10	\$44.44
Operators (Class 03 - see notes)	6/1/2014		\$26.34	\$18.10	\$44.44
Painters Class 6 (see notes)	6/1/2009		\$24.77	\$12.81	\$37.58
Painters Class 6 (see notes)	6/1/2010		\$25.28	\$13.53	\$38.81
Painters Class 6 (see notes)	6/1/2011		\$25.72	\$14.09	\$39.81
Painters Class 6 (see notes)	6/1/2012		\$26.25	\$14.56	\$40.81
Painters Class 6 (see notes)	6/1/2013		\$26.78	\$15.03	\$41.81
Painters Class 6 (see notes)	6/1/2014		\$27.28	\$15.58	\$42.86

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Pile Driver Divers (Building, Heavy, Highway)	1/1/2010		\$44.39	\$12.25	\$56.64
Pile Driver Divers (Building, Heavy, Highway)	1/1/2011		\$45.53	\$13.00	\$58.53
Pile Driver Divers (Building, Heavy, Highway)	1/1/2012		\$46.28	\$13.60	\$59.88
Pile Driver Divers (Building, Heavy, Highway)	1/1/2013		\$47.18	\$14.10	\$61.28
Plasterers	6/1/2009		\$26.13	\$11.70	\$37.83
Plasterers	6/1/2010		\$26.13	\$12.15	\$38.28
Plasterers	6/1/2011		\$26.58	\$12.15	\$38.73
Plasterers	6/1/2012		\$27.03	\$12.15	\$39.18
Plumbers and Steamfitters	5/1/2009		\$32.20	\$16.44	\$48.64
Plumbers and Steamfitters	5/1/2010		\$33.38	\$17.38	\$50.76
Plumbers and Steamfitters	5/1/2011		\$34.16	\$17.96	\$52.12
Plumbers and Steamfitters	5/1/2012		\$35.07	\$18.42	\$53.49
Plumbers and Steamfitters	5/1/2013		\$35.97	\$18.88	\$54.85
Pointers, Caulkers, Cleaners	7/1/2009		\$25.88	\$13.33	\$39.21
Pointers, Caulkers, Cleaners	12/1/2009		\$25.98	\$13.83	\$39.81
Pointers, Caulkers, Cleaners	6/1/2010		\$25.98	\$14.33	\$40.31
Pointers, Caulkers, Cleaners	12/1/2010		\$26.36	\$14.53	\$40.89
Pointers, Caulkers, Cleaners	6/1/2011		\$26.87	\$14.53	\$41.40
Pointers, Caulkers, Cleaners	12/1/2011		\$27.10	\$15.03	\$42.13
Roofers	6/1/2011		\$22.30	\$14.56	\$36.86
Roofers	6/1/2012		\$22.68	\$15.03	\$37.71
Sheet Metal Workers	7/1/2010		\$31.46	\$20.81	\$52.27
Sheet Metal Workers	1/1/2011		\$31.18	\$21.09	\$52.27
Sheet Metal Workers	7/1/2011		\$31.58	\$21.84	\$53.42
Sheet Metal Workers	1/1/2012		\$31.55	\$21.87	\$53.42
Sheet Metal Workers	7/1/2012		\$31.93	\$22.69	\$54.62
Sprinklerfitters	1/1/2010		\$33.85	\$17.60	\$51.45
Sprinklerfitters	1/1/2011		\$33.35	\$18.45	\$51.80
Sprinklerfitters	4/1/2011		\$34.18	\$18.45	\$52.63
Sprinklerfitters	1/1/2012		\$34.18	\$18.60	\$52.78

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Sprinklerfitters	4/1/2012		\$35.21	\$18.65	\$53.86
Sprinklerfitters	1/1/2013		\$35.21	\$18.80	\$54.01
Stone Masons	12/1/2007		\$27.55	\$13.47	\$41.02
Stone Masons	12/1/2009		\$28.92	\$15.20	\$44.12
Stone Masons	6/1/2010		\$29.32	\$15.85	\$45.17
Stone Masons	12/1/2010		\$29.75	\$16.22	\$45.97
Stone Masons	6/1/2011		\$30.65	\$16.22	\$46.87
Stone Masons	12/1/2011		\$30.97	\$16.80	\$47.77
Terrazzo Finisher	6/1/2009		\$25.61	\$12.04	\$37.65
Terrazzo Finisher	12/1/2009		\$25.76	\$12.54	\$38.30
Terrazzo Finisher	12/1/2010		\$26.36	\$13.19	\$39.55
Terrazzo Finisher	6/1/2011		\$27.06	\$13.49	\$40.55
Terrazzo Finisher	12/1/2011		\$27.06	\$13.49	\$40.55
Terrazzo Setter	6/1/2009		\$26.15	\$13.05	\$39.20
Terrazzo Setter	12/1/2009		\$26.30	\$13.55	\$39.85
Terrazzo Setter	6/1/2010		\$26.90	\$14.20	\$41.10
Terrazzo Setter	12/1/2010		\$26.90	\$14.20	\$41.10
Terrazzo Setter	6/1/2011		\$27.60	\$14.50	\$42.10
Terrazzo Setter	12/1/2011		\$27.60	\$14.50	\$42.10
Tile Finisher	6/1/2009		\$20.77	\$10.05	\$30.82
Tile Finisher	12/1/2009		\$20.92	\$11.05	\$31.97
Tile Finisher	6/1/2010		\$21.12	\$11.70	\$32.82
Tile Finisher	6/1/2011		\$22.17	\$11.85	\$34.02
Tile Finisher	12/1/2011		\$22.57	\$12.05	\$34.62
Tile Setter	6/1/2009		\$26.85	\$13.45	\$40.30
Tile Setter	12/1/2009		\$27.10	\$13.95	\$41.05
Tile Setter	6/1/2010		\$27.40	\$14.60	\$42.00
Tile Setter	6/1/2011		\$28.39	\$15.01	\$43.40
Tile Setter	12/1/2011		\$28.41	\$15.69	\$44.10
Tilesetters & Marble Masons	1/1/2010		\$29.95	\$12.25	\$42.20
Tilesetters & Marble Masons	1/1/2010		\$29.95	\$12.25	\$42.20

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Tilesetters & Marble Masons	1/1/2011		\$30.35	\$13.00	\$43.35
Tilesetters & Marble Masons	1/1/2011		\$30.35	\$13.00	\$43.35
Tilesetters & Marble Masons	1/1/2012		\$30.85	\$13.60	\$44.45
Tilesetters & Marble Masons	1/1/2012		\$30.85	\$13.60	\$44.45
Tilesetters & Marble Masons	1/1/2013		\$31.45	\$14.10	\$45.55
Tilesetters & Marble Masons	1/1/2013		\$31.45	\$14.10	\$45.55
Truckdriver class 1(see notes)	1/1/2009		\$24.23	\$11.44	\$35.67
Truckdriver class 1(see notes)	1/1/2010		\$24.98	\$12.04	\$37.02
Truckdriver class 1(see notes)	1/1/2011		\$25.48	\$12.79	\$38.27
Truckdriver class 1(see notes)	1/1/2012		\$25.88	\$13.49	\$39.37
Truckdriver class 1(see notes)	1/1/2013		\$26.25	\$14.22	\$40.47
Truckdriver class 2 (see notes)	1/1/2009		\$24.38	\$11.51	\$35.89
Truckdriver class 2 (see notes)	1/1/2010		\$25.13	\$12.11	\$37.24
Truckdriver class 2 (see notes)	1/1/2011		\$25.64	\$12.85	\$38.49
Truckdriver class 2 (see notes)	1/1/2012		\$26.02	\$13.57	\$39.59
Truckdriver class 2 (see notes)	1/1/2013		\$26.40	\$14.29	\$40.69
Truckdriver class 3 (see notes)	1/1/2009		\$24.91	\$11.75	\$36.66
Truckdriver class 3 (see notes)	1/1/2010		\$25.64	\$12.37	\$38.01
Truckdriver class 3 (see notes)	1/1/2011		\$26.15	\$13.11	\$39.26
Truckdriver class 3 (see notes)	1/1/2012		\$26.53	\$13.83	\$40.36
Truckdriver class 3 (see notes)	1/1/2013		\$26.90	\$14.56	\$41.46

PREVAILING WAGES PROJECT RATES

Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter Welder	1/1/2009		\$28.23	\$12.16	\$40.39
Carpenter Welder	1/1/2010		\$29.16	\$12.56	\$41.72
Carpenter Welder	1/1/2011		\$29.42	\$13.57	\$42.99
Carpenter Welder	1/1/2012		\$29.69	\$14.40	\$44.09
Carpenter Welder	1/1/2013		\$30.07	\$15.12	\$45.19
Carpenters	1/1/2009		\$27.53	\$12.16	\$39.69
Carpenters	1/1/2010		\$28.48	\$12.56	\$41.04
Carpenters	1/1/2011		\$28.72	\$13.57	\$42.29
Carpenters	1/1/2012		\$28.99	\$14.40	\$43.39
Carpenters	1/1/2013		\$29.37	\$15.12	\$44.49
Cement Finishers	1/1/2009		\$26.72	\$12.97	\$39.69
Cement Finishers	1/1/2010		\$27.62	\$13.42	\$41.04
Cement Finishers	1/1/2011		\$28.02	\$14.27	\$42.29
Cement Finishers	1/1/2012		\$28.22	\$15.17	\$43.39
Cement Finishers	1/1/2013		\$28.60	\$15.89	\$44.49
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2011		\$27.06	\$18.96	\$46.02
Laborers (Class 01 - See notes)	1/1/2009		\$23.30	\$12.65	\$35.95
Laborers (Class 01 - See notes)	1/1/2010		\$23.75	\$13.55	\$37.30
Laborers (Class 01 - See notes)	1/1/2011		\$23.99	\$14.56	\$38.55
Laborers (Class 01 - See notes)	1/1/2012		\$24.07	\$15.58	\$39.65
Laborers (Class 01 - See notes)	1/1/2013		\$24.13	\$16.62	\$40.75
Laborers (Class 02 - See notes)	1/1/2009		\$23.46	\$12.65	\$36.11
Laborers (Class 02 - See notes)	1/1/2010		\$23.91	\$13.55	\$37.46
Laborers (Class 02 - See notes)	1/1/2011		\$24.15	\$14.56	\$38.71
Laborers (Class 02 - See notes)	1/1/2012		\$24.23	\$15.58	\$39.81
Laborers (Class 02 - See notes)	1/1/2013		\$24.29	\$16.62	\$40.91
Laborers (Class 03 - See notes)	1/1/2009		\$23.85	\$12.65	\$36.50
Laborers (Class 03 - See notes)	1/1/2010		\$24.30	\$13.55	\$37.85
Laborers (Class 03 - See notes)	1/1/2011		\$24.54	\$14.56	\$39.10
Laborers (Class 03 - See notes)	1/1/2012		\$24.62	\$15.58	\$40.20

PREVAILING WAGES PROJECT RATES

Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 03 - See notes)	1/1/2013		\$24.68	\$16.62	\$41.30
Laborers (Class 04 - See notes)	1/1/2009		\$24.30	\$12.65	\$36.95
Laborers (Class 04 - See notes)	1/1/2010		\$24.75	\$13.55	\$38.30
Laborers (Class 04 - See notes)	1/1/2011		\$24.99	\$14.56	\$39.55
Laborers (Class 04 - See notes)	1/1/2012		\$25.07	\$15.58	\$40.65
Laborers (Class 04 - See notes)	1/1/2013		\$25.13	\$16.62	\$41.75
Laborers (Class 05 - See notes)	1/1/2009		\$24.71	\$12.65	\$37.36
Laborers (Class 05 - See notes)	1/1/2010		\$25.16	\$13.55	\$38.71
Laborers (Class 05 - See notes)	1/1/2011		\$25.40	\$14.56	\$39.96
Laborers (Class 05 - See notes)	1/1/2012		\$25.48	\$15.58	\$41.06
Laborers (Class 05 - See notes)	1/1/2013		\$25.54	\$16.62	\$42.16
Laborers (Class 06 - See notes)	1/1/2009		\$21.55	\$12.65	\$34.20
Laborers (Class 06 - See notes)	1/1/2010		\$22.00	\$13.55	\$35.55
Laborers (Class 06 - See notes)	1/1/2011		\$22.24	\$14.56	\$36.80
Laborers (Class 06 - See notes)	1/1/2012		\$22.32	\$15.58	\$37.90
Laborers (Class 06 - See notes)	1/1/2013		\$22.38	\$16.62	\$39.00
Laborers (Class 07 - See notes)	1/1/2009		\$24.20	\$12.65	\$36.85
Laborers (Class 07 - See notes)	1/1/2010		\$24.65	\$13.55	\$38.20
Laborers (Class 07 - See notes)	1/1/2011		\$24.99	\$14.56	\$39.55
Laborers (Class 07 - See notes)	1/1/2012		\$25.07	\$15.58	\$40.65
Laborers (Class 07 - See notes)	1/1/2013		\$25.13	\$16.62	\$41.75
Laborers (Class 08 - See notes)	1/1/2009		\$25.70	\$12.65	\$38.35
Laborers (Class 08 - See notes)	1/1/2010		\$26.15	\$13.55	\$39.70
Laborers (Class 08 - See notes)	1/1/2011		\$26.49	\$14.56	\$41.05
Laborers (Class 08 - See notes)	1/1/2012		\$26.57	\$15.58	\$42.15
Laborers (Class 08 - See notes)	1/1/2013		\$26.63	\$16.62	\$43.25
Operators (Class 01 - see notes)	1/1/2009		\$26.38	\$14.44	\$40.82
Operators (Class 01 - see notes)	1/1/2010		\$27.18	\$14.99	\$42.17
Operators (Class 01 - see notes)	1/1/2011		\$27.68	\$15.74	\$43.42
Operators (Class 01 - see notes)	1/1/2012		\$28.08	\$16.44	\$44.52
Operators (Class 01 - see notes)	1/1/2013		\$28.48	\$17.14	\$45.62

PREVAILING WAGES PROJECT RATES

Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Class 02 -see notes)	1/1/2009		\$26.12	\$14.44	\$40.56
Operators (Class 02 -see notes)	1/1/2010		\$26.92	\$14.99	\$41.91
Operators (Class 02 -see notes)	1/1/2011		\$27.42	\$15.74	\$43.16
Operators (Class 02 -see notes)	1/1/2012		\$27.82	\$16.44	\$44.26
Operators (Class 02 -see notes)	1/1/2013		\$28.22	\$17.14	\$45.36
Operators (Class 03 - See notes)	1/1/2009		\$22.47	\$14.44	\$36.91
Operators (Class 03 - See notes)	1/1/2010		\$23.27	\$14.99	\$38.26
Operators (Class 03 - See notes)	1/1/2011		\$23.77	\$15.74	\$39.51
Operators (Class 03 - see notes)	1/1/2012		\$24.17	\$16.44	\$40.61
Operators (Class 03 - See notes)	1/1/2013		\$24.57	\$17.14	\$41.71
Operators (Class 03)	1/1/2011		\$23.77	\$15.74	\$39.51
Operators (Class 04 - See notes)	1/1/2009		\$22.01	\$14.44	\$36.45
Operators (Class 04 - See notes)	1/1/2010		\$22.81	\$14.99	\$37.80
Operators (Class 04 - See notes)	1/1/2011		\$23.31	\$15.74	\$39.05
Operators (Class 04 - See notes)	1/1/2012		\$23.71	\$16.44	\$40.15
Operators (Class 04 - See notes)	1/1/2013		\$24.11	\$17.14	\$41.25
Operators (Class 05 - See notes)	1/1/2009		\$21.76	\$14.44	\$36.20
Operators (Class 05 - See notes)	1/1/2010		\$22.56	\$14.99	\$37.55
Operators (Class 05 - See notes)	1/1/2011		\$23.06	\$15.74	\$38.80
Operators (Class 05 - See notes)	1/1/2012		\$23.46	\$16.44	\$39.90
Operators (Class 05 - See notes)	1/1/2013		\$23.86	\$17.14	\$41.00
Painters Class 1 (see notes)	6/1/2009		\$27.24	\$12.81	\$40.05
Painters Class 1 (see notes)	6/1/2010		\$27.84	\$13.53	\$41.37
Painters Class 1 (see notes)	6/1/2011		\$27.84	\$15.03	\$42.87
Painters Class 1 (see notes)	6/1/2012		\$29.60	\$14.56	\$44.16
Painters Class 1 (see notes)	6/1/2013		\$30.38	\$15.03	\$45.41
Painters Class 1 (see notes)	6/1/2014		\$30.93	\$15.58	\$46.51
Painters Class 2 (see notes)	6/1/2009		\$27.77	\$12.81	\$40.58
Painters Class 2 (see notes)	6/1/2010		\$28.38	\$13.53	\$41.91
Painters Class 2 (see notes)	6/1/2011		\$28.38	\$15.03	\$43.41
Painters Class 2 (see notes)	6/1/2012		\$29.60	\$14.56	\$44.16

PREVAILING WAGES PROJECT RATES

Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Painters Class 2 (see notes)	6/1/2013		\$30.38	\$15.03	\$45.41
Painters Class 2 (see notes)	6/1/2014		\$30.93	\$15.58	\$46.51
Painters Class 3 (see notes)	6/1/2009		\$29.81	\$12.81	\$42.62
Painters Class 3 (see notes)	6/1/2010		\$30.48	\$13.53	\$44.01
Painters Class 3 (see notes)	6/1/2011		\$30.48	\$15.28	\$45.76
Painters Class 3 (see notes)	6/1/2012		\$31.70	\$14.56	\$46.26
Painters Class 3 (see notes)	6/1/2013		\$32.48	\$15.03	\$47.51
Painters Class 3 (see notes)	6/1/2014		\$33.03	\$15.58	\$48.61
Painters Class 4 (see notes)	6/1/2009		\$23.79	\$12.81	\$36.60
Painters Class 4 (see notes)	6/1/2010		\$24.38	\$13.53	\$37.91
Painters Class 4 (see notes)	6/1/2011		\$24.38	\$14.93	\$39.31
Painters Class 4 (see notes)	6/1/2012		\$25.36	\$14.56	\$39.92
Painters Class 4 (see notes)	6/1/2013		\$25.98	\$15.03	\$41.01
Painters Class 4 (see notes)	6/1/2014		\$26.42	\$15.58	\$42.00
Painters Class 5 (see notes)	6/1/2009		\$19.38	\$12.81	\$32.19
Painters Class 5 (see notes)	6/1/2010		\$19.81	\$13.53	\$33.34
Painters Class 5 (see notes)	6/1/2011		\$19.81	\$14.67	\$34.48
Painters Class 5 (see notes)	6/1/2012		\$20.61	\$14.56	\$35.17
Painters Class 5 (see notes)	6/1/2013		\$21.11	\$15.03	\$36.14
Painters Class 5 (see notes)	6/1/2014		\$21.47	\$15.58	\$37.05
Piledrivers	1/1/2009		\$28.85	\$12.00	\$40.85
Piledrivers	1/1/2010		\$29.95	\$12.25	\$42.20
Piledrivers	1/1/2011		\$30.35	\$13.10	\$43.45
Piledrivers	1/1/2012		\$30.85	\$13.70	\$44.55
Piledrivers	1/1/2013		\$31.45	\$14.20	\$45.65
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2010		\$30.27	\$26.09	\$56.36
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2012		\$34.87	\$26.86	\$61.73

PREVAILING WAGES PROJECT RATES

Heavy/Highway

Effective
Date

Expiration
Date

Hourly
Rate

Fringe
Benefits

Total

Notes:

If you can not find a classification under Heavy/Highway please refer to the Building classifications.

For further information on construction types review the ["Notes as Referenced in Predeterminations"](#) on the Labor and Industry Website. Go to www.dli.state.pa.us, scroll down to the picture labeled "Labor Law Compliance" and click the picture. Then scroll down on the left menu and click on the "Prevailing Wage" link.

PA Labor & Industry Internet

Prevailing Wage Notes

Notes for 33 County Heavy and Highway Laborers * (See below)

Allegheny, Armstrong, Beaver, Bedford, Blair, Butler, Cambria, Cameron, Centre, Clarion, Clearfield, Clinton, Crawford, Elk, Erie, Fayette, Forest, Franklin, Fulton, Greene, Huntingdon, Indiana, Jefferson, Lawrence, McKean, Mercer, Mifflin, Potter, Somerset, Venango, Warren, Washington & Westmoreland

HEAVY AND HIGHWAY

CLASS 1 - COMMON LABORER

Asphalt Curb Sealer
Batcher Man (Weight)
Boatman
Coffer Dam
Drill Runner's Assistant
Fence Construction (Including Fence Machine Operator)
GABION (Erectors and Placers)
Landscape Laborers
Radio Actuated Traffic Control Operator
RIP RAP Work
Sheeters and Shorers (Includes Lagging)
Water Boy
Wood Chipper
Asphalt Tamper
Blaster's Assistant
Brakeman
Concrete Curing Pitman, Puddler
Electric Bursh and/or Ginder
Form Stripper and Mover
Hydro Jet Blaster Nozzle Man
Manually Moved Emulsion Sprayer
(Bending, Aligning & Securing)
Scaffolds and Runways
Structural Concrete Top Surfacers
Walk Behind Street Sweeper
Welder's Assistant (Pipeline)

CLASS 2 - SEMI-SKILLED LABORER

Air Tool Operator (All Types)
Railroad Track Work
Burner
Carryable Pumps
Cribbing (Concrete or Steel)
Diamond Head Core Driller
Drill Runner's Assistant (Tunnel)
Highway Slab Reinforcement
Placers (Including Joint and Backer Setters)
Mechanical Joint Sealer; Dope Pot & Tar Kettle
Pipe Layers/Fusion Welders (Regardless of Materials)
Post Hole Auger (2 or 4 Cycle-Hand Operated)
Forklift (Walk Behind)
Asphalt, Batch and Concrete Plant
Operator (Manually Operated)
Caisson Men (Open Air)

Chain Saw Operator (Including Attachments)
Curb Machine Operator (Asphalt or Concrete-Walk Behind)
Form Setter (Road Forms Line Man)
Hydraulic Pipe Pusher
Liner Plates (Tile and Vitrified Clay)
Mechanical Compacting Equipment Operators
Mortar Mixer (Hand or Machine)
Muckers, Brakeman and All Other Labor (Includes Installation of Utility Lines)
Portable Single Unit Conveyor
Power Wheel Barrows and Buggies
Aid Porter or Similar
Sand Blaster
Vibrator Operator
All Railroad Track Work
Signal Man

CLASS 3 - SKILLED LABORER

HEAVY AND HIGHWAY

ASPHALT LUTEMAN/RAKER
BLACKSMITH
CEMENT MORTAR LINING CAR PUSHER
CEMENT MORTAR MIXER (PIPE RELINING)
CONCRETE SAW OPERATOR (WALK BEHIND)
CROWN SCREED ADJUSTER
ELEVATED ROADWAY DRAINAGE CONSTRUCTION
ERECTOR OF OVERHEAD SIGNS
MINERS AND DRILLERS (INCLUDING LINING M SUPPORTING AND FORM
WORKMAN, SETTING OF SHIELDS, MISCELLANEOUS EQUIPMENT
AND JUMBOS)
WALK BEHIND DITCHING MACHINE (TRENCHER OR SIMILAR)
BLASTER
BRICK, STONE & BLOCK PAVERS AND BLOCK CUTTERS (WOOD-BELGIAN-
ASPHALT)
CEMENT MORTAR PIPE RELINERS
CURB CUTTERS AND SETTERS
FORM SETTER (ROAD FORMS-LEAD MAN)
GUNITED OR DRY PACK GUN-NOZZLE AND MACHINE MAN
GROUT MACHINE OPERATOR
MULTI-PLATE PIPE (ALIGNING AND SECURING)
MANHOLE OR CATCH BASIN BUILDER
PLACING WIRE MESH ON GUNNITE PROJECTS
WAGON DRILL OPERATOR (AIR TRACK OR SIMILAR)
WELDER

CLASS 4

Reinforcing Steel Placers (Bending, Aligning and Securing - Caldweid)

CLASS 5

High Burner (Any Burning Not Done From Deck)
Elder (Pipeline)

CLASS 6

Uniformed Flag Person/Signal Person (As per PENN DOT Specifications on Hardhats and Vests)
Watchman

CLASS 7

Toxic/Hazardous Waste Removal Laborer – Level C and D

CLASS 8

Toxic/Hazardous Waste Removal Laborer Levels A and B

****These notes pertain to projects whose rates were determined subsequent to March 23, 2009. Questions regarding rates prior to that date should be directed to the Bureau of Labor Law Compliance at 1-800-932-0665.***

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PA Labor & Industry Internet

Prevailing Wage Notes

Definitions for Heavy & Highway Operators in the 33 County Area

Allegheny, Armstrong, Beaver, Bedford, Blair, Butler, Cambria, Cameron, Centre, Clarion, Clearfield, Clinton, Crawford, Elk, Erie, Fayette, Forest, Franklin, Fulton, Greene, Huntingdon, Indiana, Jefferson, Lawrence, McKean, Mercer, Mifflin, Potter, Somerset, Venango, Warren, Washington, & Westmoreland

GROUP 1 OPERATORS HEAVY & HIGHWAY CONSTRUCTION

CLASS 1

Asphalt Paving Machine, Autograder (C.M.I. and similar), Backfiller, Backhoe (360° Swing and 180° Swing), Cableway, Caisson Drill (Similar to Hugh Williams), Central Mix Plant, Compactor with Blade, Cooling Plant, Concrete Paving Mixer, Concrete Pump (Self-propelled), Cranes*, Tower Cranes (Stationary or Climbing), Derrick, Derrick Boat, Bulldozer (with a gross weight over 25,000 lbs.), Dragline, Dredge, Elevating Grader, Franki Pile Machine, Gradall (remote control or otherwise), Grader (Power fine grade), Hi-lift or Front End Loader (Bucket 4 cy. and over), Hoist (2 drums or more in 1 unit), Hydraulic Boom Truck (Pivotal Cab), Kocal, Locomotive (Std. Gauge), Mechanic, Metro-chip Harvester or similar, Milling Machine (Roto Mill or similar), Mix Mobile (with Self Loading Attachment), Mucking Machine (Tunnel), Pile Driver Machine, Pipe Extrusion Machine, Pre-splitter Drill (self contained), Refrigeration Plant, Rough Terrain Cranes (25 ton and over), Rough Terrain Cranes (under 25 ton), Scrapers, Shovel-Power, Slip Form Paver (C.M.I. and similar), Trenching Machine (30,000 lbs. and over), Trenching Machine (under 30,000 lbs.), Tunnel Machine (Jarva or similar), Vermeer Saw, Whirley, Working Mechanical Foreman (Class I + \$.35)

* Cranes with Boom or Mast length (including jib) 101 ft or over shall be paid an additional \$.50 per hour for each 50-foot increment of additional boom and/or jib length

CLASS II

Asphalt Plant Operator, Auger (Tractor Mounted), Belt Loader (Euclid or similar), Boring Machine, Cable Placer or Layer, Concrete Batch Plant (Electronically synchronized), Concrete Belt Placer (C.M.I. and similar), Concrete Finishing Machine and/or Spreader, Concrete Mixer (Over 1 cy.), Concrete Pump (Stationary), Core Drill (Truck or Skid mounted, similar to Penn Drill), Directional Drills (Over 3,000 lbs. Thrust), Bulldozer (with a gross weight of 25,000 lbs. and under), Ditch Witch-Saw, Force Feed Loader, Fork Lift (Lull or similar), Grader (Power, except fine grade), Head Grease Unit Operator (1st on job), Guard Rail Post Driver (Truck or Skid mounted), Hi-lift or Front End Loader (Bucket 4 cy. and under), Hydraulic Boom Truck (Non-Pivotal Cab), Job Work Boat (powered)(assistants will be deckhands), Jumbo Operator, Locomotive (narrow gauge), Minor Equipment Operator (4 or more units), Mucking Machine (not tunnel), Multi-Head Saw or Groover, Over-Head Crane, Power Asphalt Roller, Ross Carrier, Side Boom or Tractor Mounted Boom, Shuttle Buggy (Asphalt), Skid Steer Loader, Stone Crusher (Screening Plant-Washing Plants), Stone Spreader (Self Propelled), Truck Mounted Drill (Davey or similar), Welder, Well Point Pump Operator

CLASS III

Broom Finisher (C.M.I. or similar), Compactors/Rollers (Static or Vibratory) (Self Propelled), Curb Builder, Minor Equipment Operator (Two or Three units), Multi-Head Tie Tamper, Pavement Breaker (Self Propelled or Ridden), Soil Stabilizer Machine, Tire Repairman, Tractor (Snaking and Hauling), Well Driller and Horizontal Winch or "A" Frame Truck (When hoisting and lowering)

CLASS IV

Ballast Regulator, Compressor, Concrete Mixer (1cy. And under with skip), Concrete Saw (Ridden or self-propelled), Conveyor, Elevator (material hauling only), Fork-lift (Ridden or Self-propelled), Generator, Grout Pump, Heater (Mechanical), Hoist (Single Drum), Ladavator, Light Plant, Mulching Machine, Personnel Boat (powered), Pulverizer, Pumps, Spray Cure Machine (Power Driven), Sub-grader, Tie Puller, Tugger, Welding Machine (Gas or Diesel)

CLASS V

Deckhand, Farm Tractor, Fireman on Boiler, Mechanic's Helper, Oiler, Power Broom, Side Delivery Shoulder Spreader (attachment)

Content Last Modified on 8/21/2008 3:29:37 PM

PA Labor & Industry Internet Prevailing Wage Notes

ASBESTOS REMOVAL -- ASBESTOS WORKER/LABORER AMENDED FOR 11/21/97

The removal of asbestos containing materials should be handled as follows:

1. The removal of all insulation materials, whether they contain asbestos or not, from mechanical systems (pipes, boilers, ducts, flues, breachings, etc.) will be recognized as work to be classified as Asbestos Worker.
2. On all mechanical systems (pipes, boilers, ducts, flues, breachings, etc.) that are going to be scrapped, the removal of all insulating material, whether they contain asbestos or not, will be classified as Laborers.
3. The removal of all asbestos containing materials from walls, ceilings, floors, columns and all other non-mechanical structures and surfaces, etc., will be held to the classification of Laborers (with the exception of roofing materials).
4. The term "removal" shall not include sealing, labeling and dropping of scrap material into appropriate containers. After the drop, the final disposal will be classified as Laborers.
5. The loading at the designated area of all materials that have been removed, bagged and tagged, as well as clean-up and all unloading, burying and other work required at the disposal site should be classified as Laborers.

Content Last Modified on 11/15/2006 7:29:12 AM

PA Labor & Industry Internet Prevailing Wage Notes

Notes for Building, Heavy, Highway Truckdriver

Truckdriver Class 1

Single Axle

Truckdrivers Class 2

Tandem

Tri-Axle

Semi-Trailer (Combination)

Truckdrivers Class 3

Speciality Vehicles

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PA Labor & Industry Internet

Prevailing Wage Notes

Painters Notes for Building, Heavy, Highway Painters

Cameron, Crawford, Forest, Potter & Warren Counties

Painters Class 1 - Industrial Rates (Heavy/Highway)

Painters Class 2 - Commercial Rates (Building)

Allegheny, Fayette, Greene & Washington Counties

Painters Class 1 - Industrial Brush & Roll (Heavy/Highway)

Painters Class 2 - Industrial Sandblast & Spray (Heavy/Highway)

Painters Class 3 - Bridge, Hot Stack, & Transmission Towers (Heavy/Highway)

Painters Class 4 - Painter Tender I (Heavy/Highway)

Painters Class 5 - Painter Tender II (Heavy/Highway)

Painters Class 6 - Commercial Painting & Paperhanging (Building)

Armstrong, Beaver, Bedford, Blair, Butler, Cambria, Centre, Clarion, Clearfield, Elk, Fulton, Huntingdon, Indiana, Jefferson, Juniata, Lawrence, Mercer, Mifflin, Somerset, Venango & Westmoreland Counties

Painters Class 1 - Industrial Brush & Roll (Heavy/Highway)

Painters Class 2 - Industrial Sandblast & Spray (Heavy/Highway)

Painters Class 3 - Bridge, Hot Stack, & Transmission Towers (Heavy/Highway)

Painters Class 4 - Painter Tender I (Heavy/Highway)

Painters Class 5 - Painter Tender II (Heavy/Highway)

Painters Class 6 - Commercial Painting & Paperhanging (Building)

Bucks, Chester, Delaware, Montgomery & Philadelphia Counties

Painters Class 1 - Brush, Roller & Spray

Painters Class 2 - Bridge

Painters Class 3 - Wallcoverer

Adams, Berks, Bradford, Carbon, Clinton, Columbia, Cumberland, Dauphin, Franklin, Lackawanna, Lancaster,

Lebanon, Lehigh, Luzerne, Lycoming, Monroe, Montour, Northampton, Northumberland, Perry, Pike, Schuylkill, Snyder, Sullivan, Susquehanna, Tioga, Union, Wayne, Wyoming & York Counties

Painters Class 1 - Commercial*

Painters Class 2 - Industrial (includes Structural Steel, Industrial Spray & Sandblasting)*

Painters Class 3 - Bridge*

* \$1.00per hour above the rate for all classifications for work done in the following manner: Steel, Spray, Epoxy, HIPAC Coatings, Catalyzed Epoxy, Urethanes, Removers, Swing, Basket, and Sandblasting

Clinton County

Painters Class 1 - Spray

Painters Class 2 - Brush & Roller

Content Last Modified on 3/13/2008 1:19:41 PM

DISTRIBUTION OF CONTRACT TIME

CONTRACT NUMBER 15711113

TMP. RD.

COUNTY LAWRENCE	ROUTE T-395	SECTION 000	CITY - TOWNSHIP - BORO. NORTH BEAVER TMP.	PREPARED FOR LETTING OF 7/13/82	NOTICE TO PROCEED ANTICIPATED 10-22-82 ACTUAL	82 WORKING DAYS BASED ON 8 hrs / day CALENDAR DAYS ALLOWED 243	Date original schedule reviewed with contractor.	APPROVED REVISIONS Revision No. _____ For Adjustment of Schedule <input type="checkbox"/> For Adjustment of Contract Time <input type="checkbox"/>	APPROVED BY <i>[Signature]</i> DISTRICT ENGINEER	FEDERAL PROJECT NUMBER	DATE 7/18/82
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SCHEDULE OF OPERATIONS

YEAR	MONTH	OPERATION	W.D.
		A01 PROJECT PREPARATION AND MISCELLANEOUS	1-82, 1-82
		82 WD.	2-67, 3-40
		B02 EARTHWORK	64-70
		7 WD.	
		C03 SUBBASE	65-76, 79
		13 WD.	
		D04 BITUMINOUS PAVEMENTS AND BASE COURSES	
		E05 RIGID PAVEMENTS	
		F06 DRAINAGE	
		G07 CURBS AND GUTTERS	
		H08 LANDSCAPING	80
		1 WD.	
		I09 TRAFFIC ACCOMMODATION AND CONTROL	
		J10 STRUCTURES	1-64
		64 WD.	
		K11 SHOULDERS	
		L12 GUIDE RAIL, MEDIAN BARRIER, R/W FENCE	81
		1 WD	
		M13 TEMPORARY TRAFFIC ACCOMMODATION	1-82
		82 WD	
		CONCURRENT WORK BY OTHERS	