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EDWARD B. WALSH & ASSOCIATES, INC.  
Complete Civil Engineering Design / Consultation Services  
Lionville Professional Center  
125 Dowlin Forge Road  
Exton, PA 19341

February 3, 2012

Board Of Supervisors  
East Goshen Township  
1580 Paoli Pike  
West Chester, Pa. 19380

**RE: Hershey Mill Dam Spillway Design and Permitting  
East Goshen Township, Chester County, PA**

Dear Board Members:

In accordance with your request, EBWA has prepared a proposal for Civil Engineering and Professional Land Surveying services necessary to evaluate the existing dam and spillway and to provide a modified system that will meet DEP regulations. The proposal includes the necessary engineering to prepare a plan set that includes the necessary details for construction. In addition the proposal includes the required preparation of the DEP applications for the review of the dam and spillway design and permitting for the dam to remain.

Edward B. Walsh and Associates, Inc. (EBWA) proposes the following:

**I. Site Survey and Base Plan Preparation:**

- 1. Site Survey of Existing Features:
  - a. Survey to be performed of existing features and topography in area proposed for improvements.
  - b. Survey cross-sections of pond area including the embankment and area downslope of the embankment.
- 2. Finalize Base Plan in CAD File of parcel showing additional features surveyed.

Total I.....\$2,910.00

**II. Pond Spillway Design:**

- 1. Determine flow rate to dam.

REGISTERED PROFESSIONAL ENGINEERS & LAND SURVEYORS  
Pennsylvania, New Jersey, Delaware, Maryland & North Carolina  
610-903-0060 FAX 610-903-0080  
www.ebwalshinc.com  
Established 1985

2. Perform modeling to determine spillway sizing and embankment improvements needed to meet DEP regulations.
3. Perform geotechnical analysis of existing embankment at spillway.
4. Prepare construction improvement plan set including the following:
  - Existing features plan
  - Proposed grading and improvement plan
  - Erosion control to be implemented for construction
  - Construction staging
  - Spillway and embankment details
  - Rock energy dissipater design and specification
  - Construction and erosion control details

Total II.....\$23,125.00

**III. DEP Dam Permit:**

1. Prepare application package including the following:
  - Environmental Assessment
  - Risk Assessment
  - Dam Permit
  - General Information Form
  - Operation and Maintenance Program
  - PNDI Search
  - NPDES Permitting

2. Meet with client and DEP staff (budget 16 hours)

Total III.....\$11,125.00

**Grand Total I, II, III & IV (Preliminary/Final Plans).....\$37,160.00**

Please note that the above does include normal revisions to the plan and hydrological analysis as requested by DEP. This proposal does not however, include major revisions to the plan as requested by the Client, DEP and/or the Township beyond the Permit requirements. In addition this proposal does not include construction inspection or retaining wall designs for the proposed berm height modification.

This proposal is valid for a period of 90 days from the date of this proposal, after which EBWA reserves the right to update. Any other work not included within the scope of this project will be

subject to your prior approval and will be billed on a time and material basis at the following hourly rates:

Principal	=	\$150.00/Hour
Landscape Architect	=	\$125.00/Hour
Project Mgr./Sr. Eng. & Surveyor	=	\$130.00/Hour
Project Mgr./Engineer	=	\$100.00/Hour
Prof. Land Surveyors	=	\$ 95.00/Hour
Chief of Survey	=	\$ 95.00/Hour
Environmental Scientist	=	\$ 90.00/Hour
Designer I	=	\$ 95.00/Hour
Draftsperson/CADD	=	\$ 95.00/Hour
Draftsperson	=	\$ 85.00/Hour
Inspector	=	\$ 78.00/Hour
Survey Crew (2-Man Crew)	=	\$135.00/Hour

\*\* The above-referenced rates are subject to annual adjustments in January of each year.

Payment terms are net thirty (30) days. Invoices are sent monthly on work performed each month. If this proposal meets with your approval, please sign, date and forward one (1) copy to my attention. We can schedule the work upon your authorization to proceed.

I would like to take this opportunity to thank you for giving EBWA the opportunity to provide you with this proposal and I look forward to the prospect of working with you on this project.

Very truly yours,  
EDWARD B. WALSH & ASSOC., INC.



Adam J. Brower, P.E.  
Project Engineer

**PROPOSAL ACCEPTANCE:**

\_\_\_\_\_  
**Authorized Signature**

\_\_\_\_\_  
**Date**