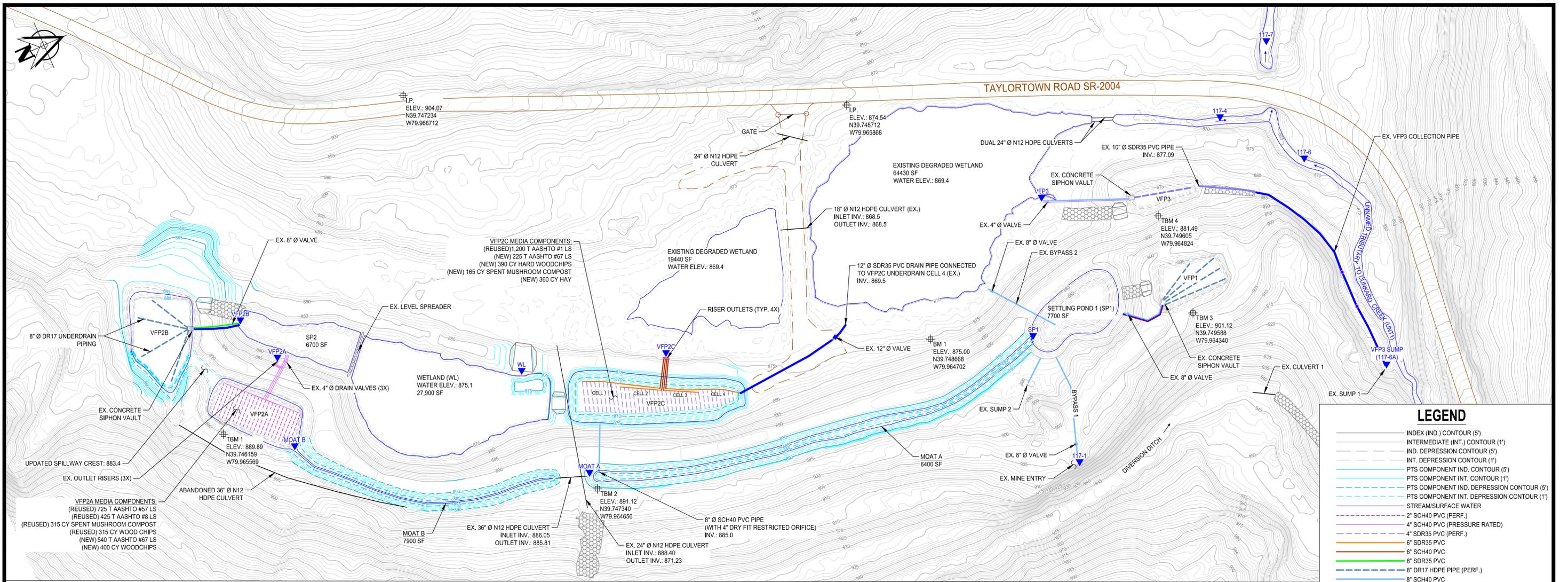


Appendix 4
As-Built Plan

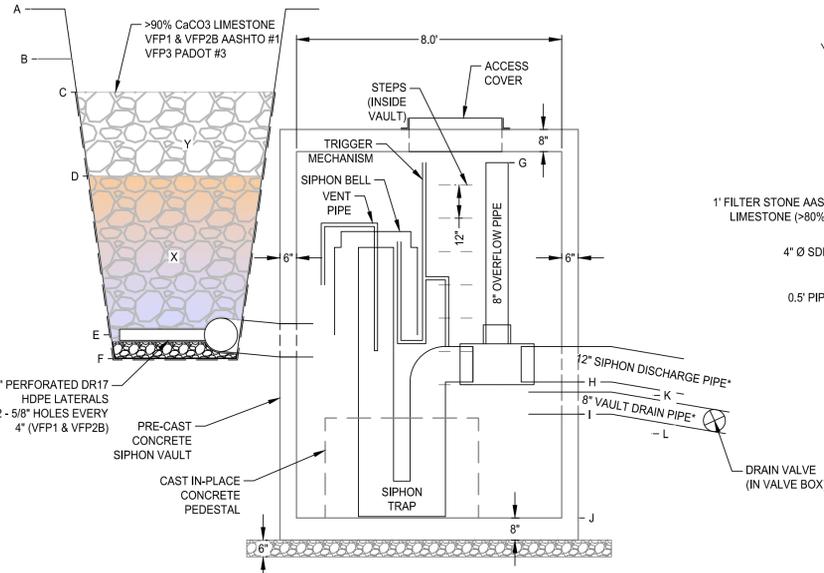


- GENERAL NOTES**
- Base map contours derived from a bare-earth digital elevation model constructed from LIDAR data (QL2) collected in Fall 2019/Spring 2020 by US Geologic Survey [PA State Plane - South (US Survey Foot) NAD83, Vertical datum - NAVD88]. Select topographic and cultural features from 2018 Pennsylvania Emergency Management Agency (PEMA) 0.5-foot orthoimagery obtained from www.pasda.psu.edu.
 - All dimensions are in feet unless otherwise noted. All slope designations are H:V. Contours are 1' interval.
 - This is an updated plan to document work completed in 2025 and is intended to be a supplement to the "Matthew's Restoration Area, Passive Treatment System Operation and Maintenance Plan, December 2007."

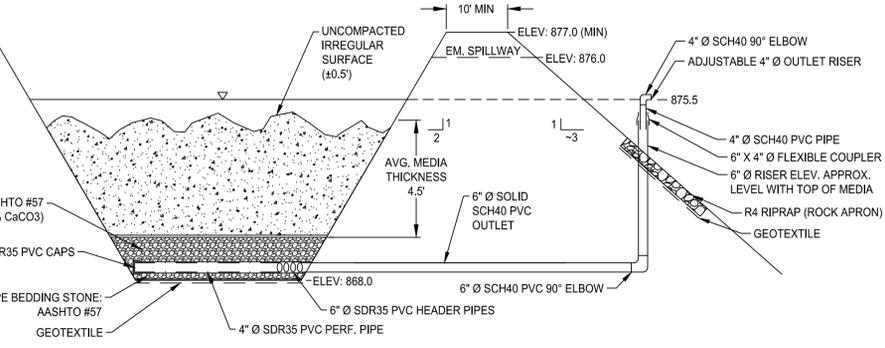
| ELEVATION | MARK | VFP1 | VFP2B | VFP3 |
|-------------------------------|------|---------|---------|---------|
| TOP OF POND | A | 899.0 | 890.1 | 881.9 |
| EMERGENCY SPILLWAY | B | 898.5 | 888.5 | 879.8 |
| TOP OF LIMESTONE | C | 897.0 | 884.8 | 878.1 |
| MAX. WATER ELEVATION (APPX.) | D | 896.8 | 882.9 | 878.3 |
| MIN. WATER ELEVATION (APPX.) | E | 891.8 | 877.9 | 874.6 |
| POND BOTTOM | F | 891.0 | 877.5 | 873.0 |
| 8" OVERFLOW* CREST IN VAULT | G | 897.2 | 883.3 | 878.5 |
| INV. 12" DISCHARGE* AT VAULT | H | 890.5 | 876.8 | 872.3 |
| INV. 8" DRAIN* AT VAULT | I | 889.6 | 875.8 | 869.5 |
| BOTTOM INSIDE VAULT | J | 886.5 | 872.6 | 869.5 |
| INV. 12" DISCHARGE AT OUTLET | K | 887.4 | 874.2 | 870.1 |
| INV. 8" DRAIN AT OUTLET | L | 887.6 | 874.6 | 870.3 |
| *ACTIVE* TREATMENT LIMESTONE | X | 1,100 T | 2,700 T | 1,000 T |
| *STORAGE* TREATMENT LIMESTONE | Y | 1,200 T | 1,800 T | 200 T |

* VFP3: 6" OVERFLOW; 8" DISCHARGE (FROM 6" SIPHON); 4" DRAIN

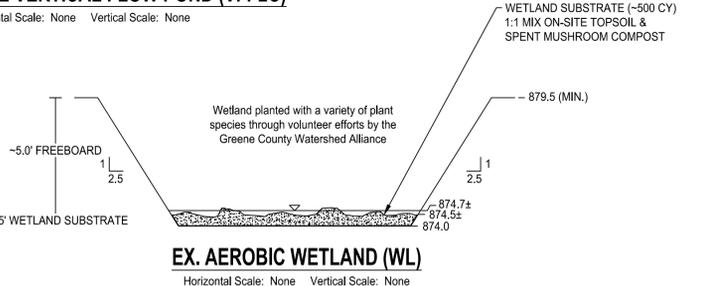
NOTE:
 1. Typical dimensions shown for VFP1 and VFP2B vault with Fluid Dynamic Siphons, Inc. model 1248 siphon; VFP3 uses model 648 siphon with smaller vault - VFP3 siphon does not have a trigger mechanism.
 2. VFP1, VFP2B, and VFP3 siphon bells are mounted to wall- or floor-mounted brackets (not shown for clarity).



VERTICAL FLOW POND AND SIPHON VAULT FOR VFP1, VFP2B & VFP3
 Horizontal Scale: None Vertical Scale: None



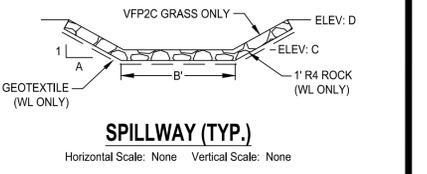
JENNINGS-TYPE VERTICAL FLOW POND (VFP2C)
 Horizontal Scale: None Vertical Scale: None



EX. AEROBIC WETLAND (WL)
 Horizontal Scale: None Vertical Scale: None

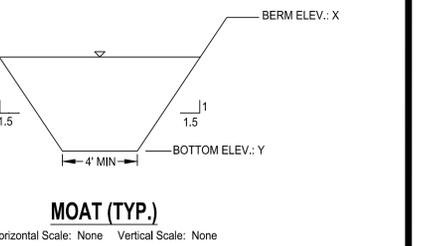
| | |
|----------|--|
| [Symbol] | INDEX (IND.) CONTOUR (5') |
| [Symbol] | INTERMEDIATE (INT.) CONTOUR (1') |
| [Symbol] | IND. DEPRESSION CONTOUR (5') |
| [Symbol] | INT. DEPRESSION CONTOUR (1') |
| [Symbol] | PTS COMPONENT IND. CONTOUR (5') |
| [Symbol] | PTS COMPONENT INT. CONTOUR (1') |
| [Symbol] | PTS COMPONENT IND. DEPRESSION CONTOUR (5') |
| [Symbol] | PTS COMPONENT INT. DEPRESSION CONTOUR (1') |
| [Symbol] | STREAM/SURFACE WATER |
| [Symbol] | 2" SCH40 PVC (PERF.) |
| [Symbol] | 4" SCH40 PVC (PRESSURE RATED) |
| [Symbol] | 4" SDR35 PVC (PERF.) |
| [Symbol] | 6" SDR35 PVC |
| [Symbol] | 6" SCH40 PVC |
| [Symbol] | 8" SDR35 PVC |
| [Symbol] | 8" DR17 HDPE PIPE (PERF.) |
| [Symbol] | 8" SCH40 PVC |
| [Symbol] | 10" SDR35 PVC |
| [Symbol] | 10" SDR35 PVC (PERF.) |
| [Symbol] | 10" SCH40 PVC |
| [Symbol] | 12" SCH40 PVC |
| [Symbol] | 12" SDR35 PVC |
| [Symbol] | 12" SDR35 PVC (PERF.) |
| [Symbol] | PAVED ROAD |
| [Symbol] | UNPAVED ROAD |
| [Symbol] | BENCHMARK |
| [Symbol] | ROCK-LINED EMERGENCY SPILLWAY |
| [Symbol] | EX. ROCK PROTECTION |
| [Symbol] | SAMPLING LOCATION |

| | WETLAND | VFP2C |
|---|---------|-------|
| A | 5 | 2 |
| B | 20 | 15 |
| C | 875.5 | 876.0 |
| D | 880.0 ± | 877.0 |



SPILLWAY (TYP.)
 Horizontal Scale: None Vertical Scale: None

| | MOAT A | MOAT B |
|---|-----------|-----------|
| X | 891 (MIN) | 890 (MIN) |
| Y | 884 (MAX) | 883 (MAX) |



MOAT (TYP.)
 Horizontal Scale: None Vertical Scale: None



CLIENT:
 STREAM RESTORATION INCORPORATED
 SLIPPERY ROCK, PA
 (724) 279-5080
 www.streamrestorationinc.org

| NO. | BY | DATE | DESCRIPTION |
|-----|-----|----------|---------------------------------------|
| 1 | TPD | Jan 2026 | Updated VFP2A Reused Media Quantities |

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER CODY A. NEELY PE065089

SIGNATURE / DATE
 SUBMITTED BY:

PROJECT DESIGNER - BioMost, Inc.

DATE: JUNE 2025
 LATITUDE: 39.7483
 LONGITUDE: -79.9659
 SCALE: 60' 30' 0' 60'
 UNLESS OTHERWISE NOTED

ACAD FILE NAME: 1176 AB (2025).dwg
 ALL EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE AS APPLICABLE

MAIDEN PASSIVE SYSTEM REHABILITATION
 DUNKARD TOWNSHIP GREENE COUNTY
AS-BUILT PLAN UPDATE & DETAILS
 1 of 1