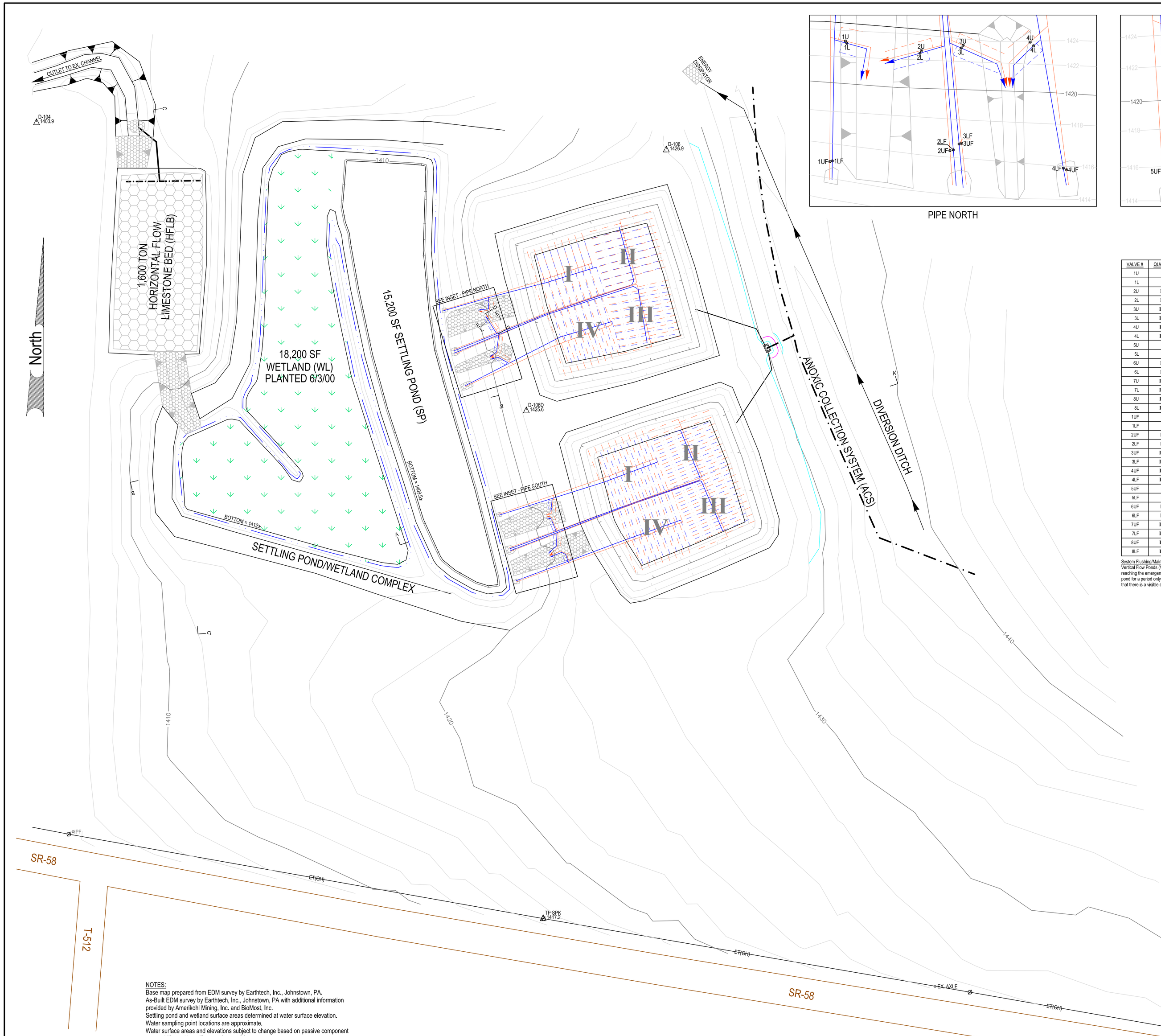
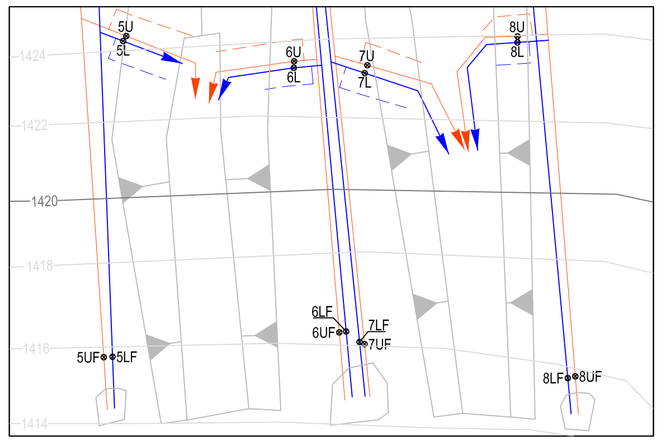
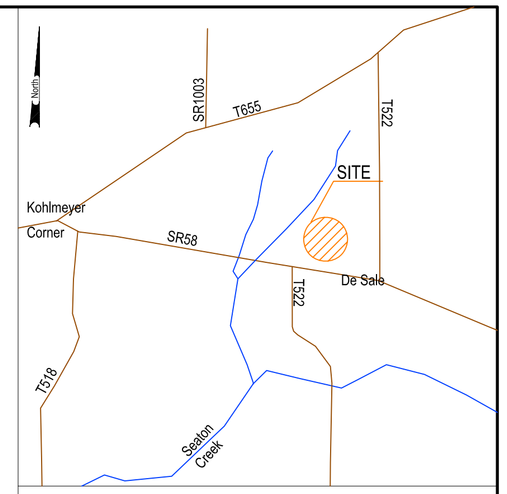


PIPE NORTH



PIPE SOUTH



LOCATION MAP - SCALE: 1" = 2000'

VALVE DATA CHART

VALVE #	QUAD. #	TIER	VFP	PURPOSE
1U	I	UPPER	NORTH (VFPN)	DISCHARGE REGULATION
1L	I	LOWER	NORTH (VFPN)	DISCHARGE REGULATION
2U	II	UPPER	NORTH (VFPN)	DISCHARGE REGULATION
2L	II	LOWER	NORTH (VFPN)	DISCHARGE REGULATION
3U	III	UPPER	NORTH (VFPN)	DISCHARGE REGULATION
3L	III	LOWER	NORTH (VFPN)	DISCHARGE REGULATION
4U	IV	UPPER	NORTH (VFPN)	DISCHARGE REGULATION
4L	IV	LOWER	NORTH (VFPN)	DISCHARGE REGULATION
5U	I	UPPER	SOUTH (VFPS)	DISCHARGE REGULATION
5L	I	LOWER	SOUTH (VFPS)	DISCHARGE REGULATION
6U	II	UPPER	SOUTH (VFPS)	DISCHARGE REGULATION
6L	II	LOWER	SOUTH (VFPS)	DISCHARGE REGULATION
7U	III	UPPER	SOUTH (VFPS)	DISCHARGE REGULATION
7L	III	LOWER	SOUTH (VFPS)	DISCHARGE REGULATION
8U	IV	UPPER	SOUTH (VFPS)	DISCHARGE REGULATION
8L	IV	LOWER	SOUTH (VFPS)	DISCHARGE REGULATION
1UF	I	UPPER	NORTH (VFPN)	SYSTEM FLUSHING
1LF	I	LOWER	NORTH (VFPN)	SYSTEM FLUSHING
2UF	II	UPPER	NORTH (VFPN)	SYSTEM FLUSHING
2LF	II	LOWER	NORTH (VFPN)	SYSTEM FLUSHING
3UF	III	UPPER	NORTH (VFPN)	SYSTEM FLUSHING
3LF	III	LOWER	NORTH (VFPN)	SYSTEM FLUSHING
4UF	IV	UPPER	NORTH (VFPN)	SYSTEM FLUSHING
4LF	IV	LOWER	NORTH (VFPN)	SYSTEM FLUSHING
5UF	I	UPPER	SOUTH (VFPS)	SYSTEM FLUSHING
5LF	I	LOWER	SOUTH (VFPS)	SYSTEM FLUSHING
6UF	II	UPPER	SOUTH (VFPS)	SYSTEM FLUSHING
6LF	II	LOWER	SOUTH (VFPS)	SYSTEM FLUSHING
7UF	III	UPPER	SOUTH (VFPS)	SYSTEM FLUSHING
7LF	III	LOWER	SOUTH (VFPS)	SYSTEM FLUSHING
8UF	IV	UPPER	SOUTH (VFPS)	SYSTEM FLUSHING
8LF	IV	LOWER	SOUTH (VFPS)	SYSTEM FLUSHING

System Flushing/Maintenance:
Vertical Flow Ponds (VFPN & VFPS) need to be flushed prior to the water elevation in the VFP reaching the emergency spillway elevation. Flushing to be performed one valve at a time per pond for a period only long enough to reduce the sludge in the discharge water to a degree that there is a visible change, i.e. the discharge begins to run clear.

LEGEND

- PASSIVE SYSTEM COMPONENT
- CONTOUR - INDEX
- CONTOUR - INTERMEDIATE
- WATER
- PROPERTY LINE
- TREELINE
- ET(OH) — UTILITY LINE (E-ELECTRIC; T-TELEPHONE)
- Ø — UTILITY POLE
- PAVED/IMPROVED ROAD
- UNIMPROVED ROAD
- TRAILS
- OUT BUILDING OR OTHER STRUCT.
- DESIGN DISCHARGE POINT
- 4" PVC SCH 40 SOLID (UPPER TIER)
- 4" PVC SCH 40 PERFORATED (UPPER TIER)
- 4" PVC SCH 40 SOLID (UPPER TIER) - OVERFLOW
- 4" PVC SCH 40 SOLID (LOWER TIER)
- 4" PVC SCH 40 PERFORATED (LOWER TIER)
- 4" PVC SCH 40 SOLID (LOWER TIER) - OVERFLOW
- 6" PVC SCH 40 PIPE (SOLID)
- 8" PVC SCH 40 SOLID
- 8" PVC SCH 40 PERFORATED
- 8" SOLID N-12 PIPE
- 8" PERFORTED N-12 PIPE
- RIP RAP (R-4) SPILLWAY/CHANNEL
- △ 1548.96 — MARKED SURVEY POINT WITH SURFACE ELEV.
- A — A' — AS BUILT CROSS SECTION
- I — PIPE QUADRANT NUMBER

NOTES:
Base map prepared from EDM survey by Earthtech, Inc., Johnstown, PA.
As-Built EDM survey by Earthtech, Inc., Johnstown, PA with additional information provided by Amerikohl Mining, Inc. and BioMost, Inc.
Settling pond and wetland surface areas determined at water surface elevation.
Water sampling point locations are approximate.
Water surface areas and elevations subject to change based on passive component permeability and/or spillway outlet conditions.
Wetland planting completed by volunteer participants of the Slippery Rock Watershed Coalition.

30 15 0 30 60

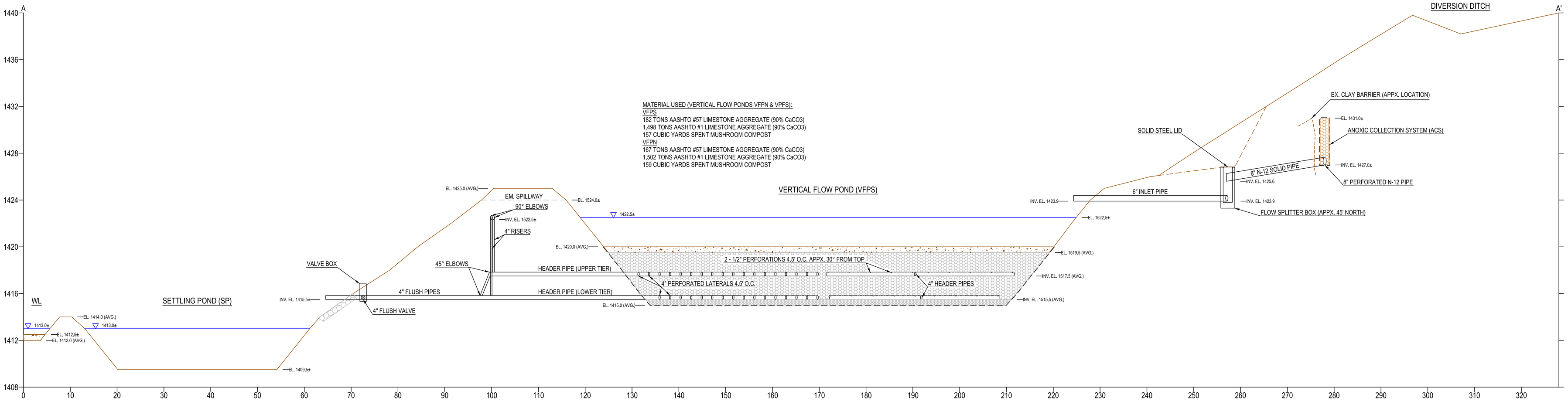
PREPARED BY	REVIEWED BY

SHEET 1 OF 2

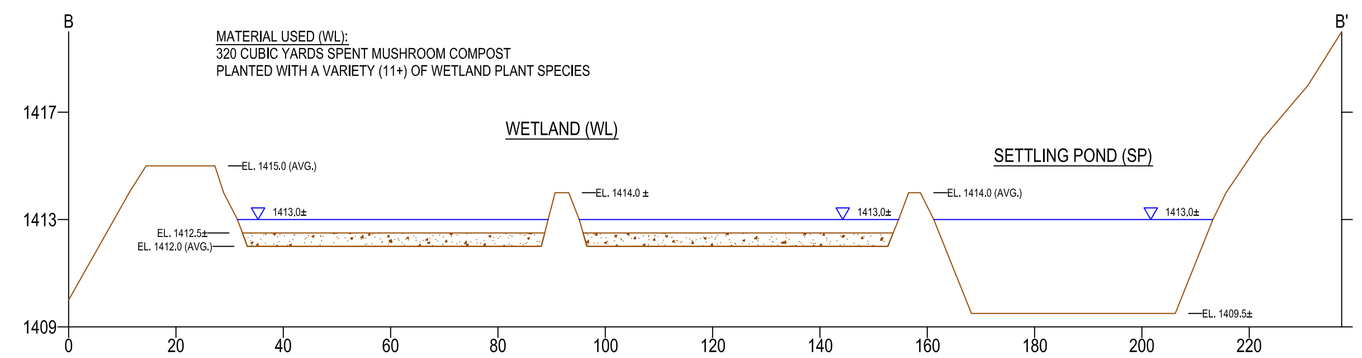
AS-BUILT PLAN
DE SALE RESTORATION AREA
PHASE I

Slippery Rock Watershed Coalition
STREAM RESTORATION INCORPORATED
situate in
Venango Township
Butler County, PA
Scale: 1" = 30' Date: 6/2000
BioMost, Inc., Cranberry Twp., PA

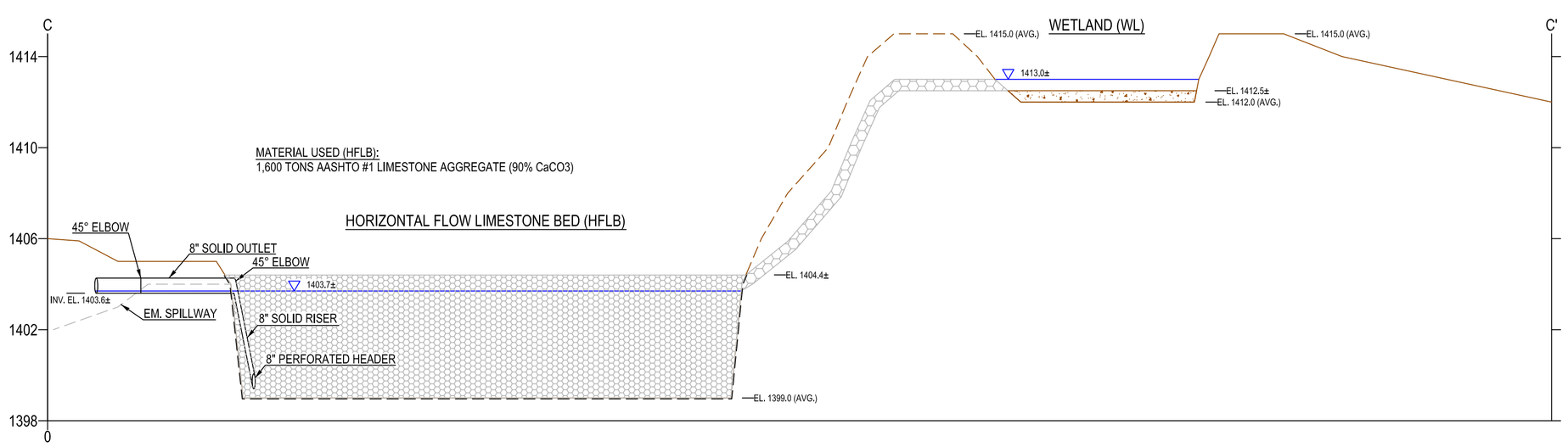
101003/101003ab/AB3



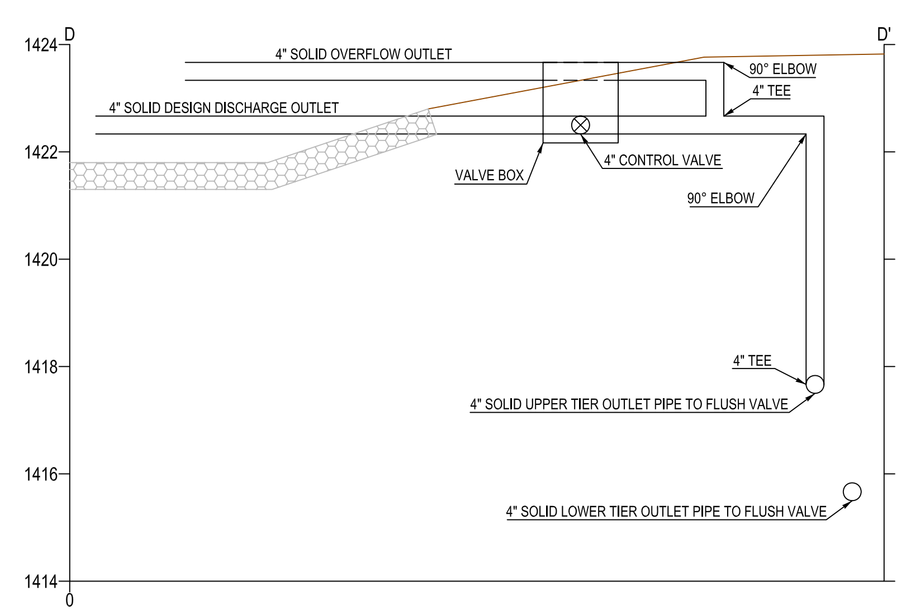
SECTION A - A'
SCALE: 1" = 10' HORIZONTAL
SCALE: 1" = 4' VERTICAL



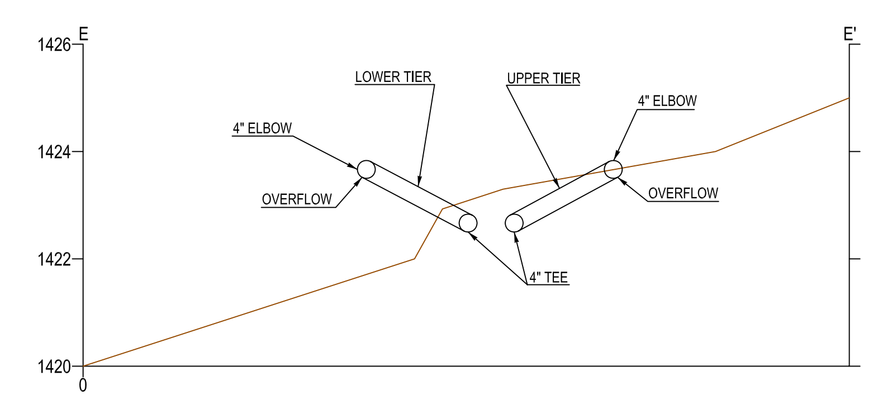
SECTION B - B'
SCALE: 1" = 20' HORIZONTAL
SCALE: 1" = 4' VERTICAL



SECTION C - C'
SCALE: 1" = 20' HORIZONTAL
SCALE: 1" = 4' VERTICAL



SECTION D - D'
SCALE: 1" = 2' HORIZONTAL
SCALE: 1" = 2' VERTICAL



SECTION E - E'
SCALE: 1" = 2' HORIZONTAL
SCALE: 1" = 2' VERTICAL

LEGEND

- LIMESTONE (AASHTO #57)
- LIMESTONE (AASHTO #1)
- RIP RAP (R-4)
- RIVER GRAVEL (AASHTO #57)
- SPENT MUSHROOM COMPOST
- GROUND SURFACE
- WATER
- PVC SCH 40 PIPE (SIZE AND TYPE AS NOTED)
- GEOTEXTILE

Note:
All valves are plastic/stainless steel slide-type gate valves.
Compost volumes are approximate.
All Spillways lined with R-4 Rip Rap (90% CaCO3)

SHEET 2 OF 2

PREPARED BY	REVIEWED BY	AS-BUILT CROSS SECTIONS DE SALE RESTORATION AREA PHASE I Slippery Rock Watershed Coalition STREAM RESTORATION INCORPORATED situate in Venango Township Butler County, PA Scale: 1" = 30' Date: 6/2000 BioMost, Inc., Cranberry Twp., PA

101003/101003abr/ABxls