

The purpose of the project is to construct a passive treatment system that will discharge into Whiskey Run a tributary of Blackleggs Creek in southwestern Indiana County, Pennsylvania. The receiving stream has a Chapter 93 classification of a cold water fishery that impaired by acid mine drainage.

Erosion and Sediment Controls

1. At least 7 days prior to starting any earth disturbance activities (including clearing and grubbing), the owner and/or operator shall invite all contractors, the landowner, appropriate municipal officials, the E&S plan preparer, the PCSM plan preparer, and a representative from the (insert appropriate County) conservation district to an informational meeting to discuss the proposed project.
2. Upon installation or stabilization of all perimeter sediment control BMPs and at least 3 days prior to proceeding with the bulk earth disturbance activities, the permittee or co-permittee shall provide notification to the Department or authorized conservation district.
3. At least 3 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call System Inc. shall be notified at 1-800-242-1776 for the location of existing underground utilities.
4. All earth disturbance activities shall proceed in accordance with the sequence provided on the plan drawings. Deviation from that sequence must be approved by the (insert appropriate County) conservation district or by the Department prior to implementation. Each step of the sequence shall be completed before proceeding to the next step, except where noted.

1. Mark in the field all limits of disturbance and environmentally sensitive areas (including steep slopes, riparian buffers, wetlands, springs, and floodways).
2. Construct a rock construction entrance at the beginning of the access road off of State Route 3023.
3. Install silt sock as shown on sheet 1 of the plans and according to the detail shown on sheet 2.
4. Clear and grub site.
5. Construct mine water collection system. Keep mine water directed into existing channel until treatment system is completed.
6. Excavate cells in numerical order. Stabilize disturbed areas immediately once final grade has been established. In the event of any temporary cessation of work in excess of 4 days, disturbed areas must be stabilized.
7. Construct spillways and rock-lined channels as shown on plans.
8. Finish all final grading and stabilize site.
9. Once site is stabilized, remove temporary BMPs

Straw Mulch	2.5 tons/acre or 100 bales/acre.*
Fertilizer (10-20-20)	400 lbs/acre
Perennial Rye Grass	10 lbs/acre
Red Fescue Grass	10 lbs/acre
White Dutch Clover	5 lbs/acre
Crimson Clover	5 lbs/acre
Birdsfoot Trefoil	3 lbs/acre
Rye or Wheat Grain	2 bushel/acre
Lime	4 tons/acre*

*Must use chain flail mulcher or mulched by hand if using square bales. No mulcher with knives can be used.

For erosion and sediment control, the location for silt sock is shown on the plans. Silt sock shall be erected before earth disturbance activities begin. The maximum sediment storage level behind the silt socks shall be 1/3 of the total height of the trap. Sediment to be disposed of in the proposed disposal area as indicated on sheet 1 of the plans. Silt socks shall be stabilized with vegetation. Erosion control BMPs shall be installed as follows:

Maintenance shall include inspections of all erosion and sediment BMPs after each runoff event and on a weekly basis. All preventative and remedial maintenance, including clean out, repair, replacement, reggrading, reseeding, remulching and renetting must be performed immediately. If the E&S BMPs fail to perform as expected, corrective action shall be taken immediately. The date of inspection shall be noted on the plans. The date that E&S BMPs were inspected as well as deficiencies found and the date they were corrected shall be maintained on the site and made available to regulatory agency officials at the time of inspection.

Access to the site will be from State Route 20323. The access road shall use the same route as the existing dirt road as shown on the plans. The access road will be constructed from SR 20323 for a distance of approximately 600 feet at which point the road ends at CR 1. The road will use AASHTO #2 and #3 aggregate. The road shall be constructed to the same width as the existing road. The road shall be constructed to the same width as the access road where it intersects with SR 20323, a rock construction entrance shall be constructed. The rock construction entrance shall be 50 ft long, 15 ft wide and 8 inches thick and contain 25 tons of AASHTO #1 aggregate. At no time shall rock be tracked out onto SR 20323. In the event the rock cleaning pan becomes clogged with soil, the rock must be removed and replaced with new AASHTO #1 aggregate. A stockpile shall be maintained on site for the rock cleaning pan. The rock cleaning pan shall be maintained in good working order. In the event the rock cleaning pan is damaged, it shall be replaced immediately. If excessive amounts of sediment are being deposited on roadway, extend length of rock construction entrance by 50 ft increments until condition is alleviated or install wash rack. Washing the roadway or sweeping the deposits into roadway ditches, sewer, culverts, or other drainageways is not acceptable.

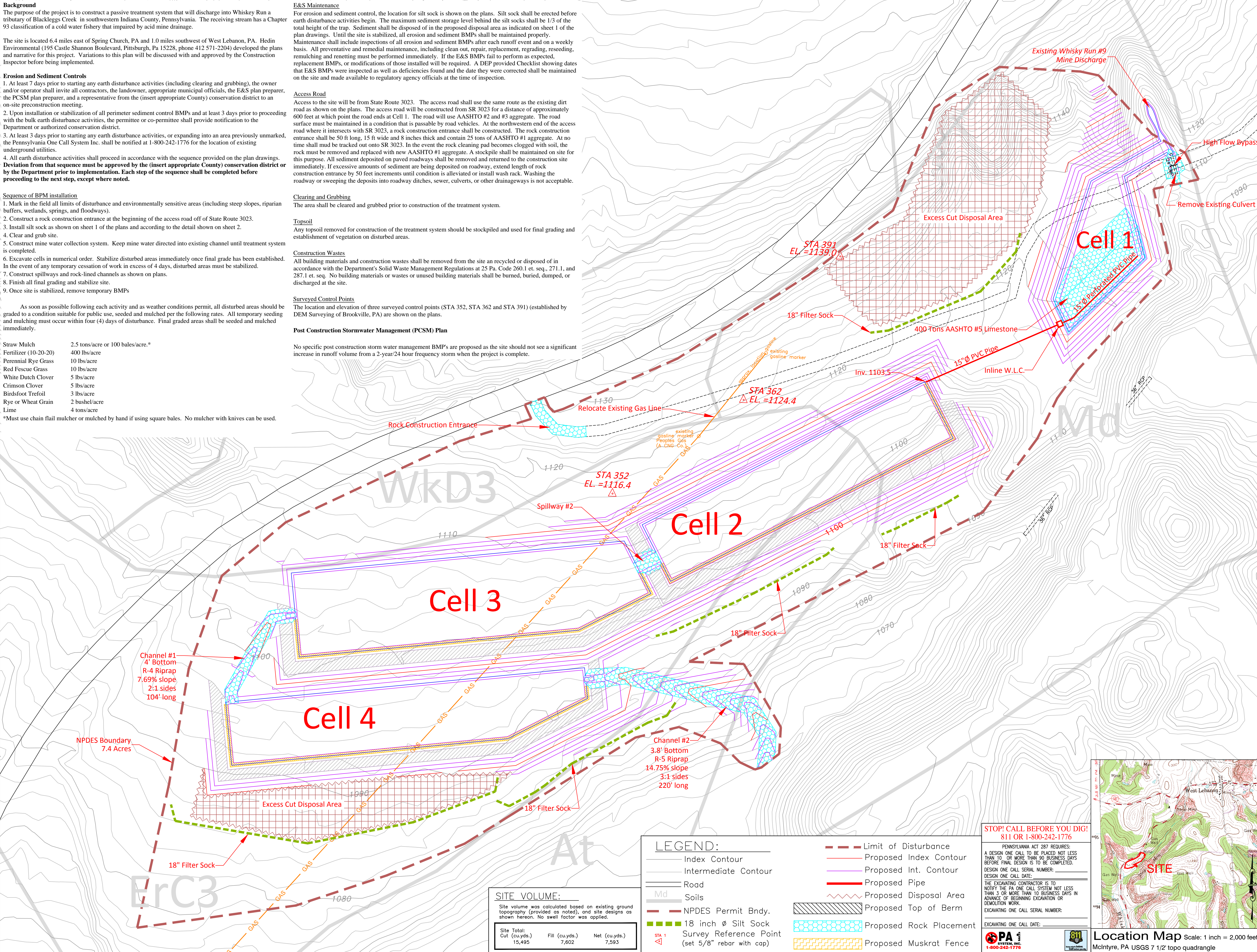
The area shall be cleared and grubbed prior to construction of the treatment system.

Any topsoil removed for construction of the treatment system should be stockpiled and used for final grading and establishment of vegetation on disturbed areas.

All building materials and construction wastes shall be removed from the site and recycled or disposed of in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 260.1 et. seq., 271.1, and 287.1 et. seq. No building materials or wastes or unused building materials shall be burned, buried, dumped, or discharged at the site.

The location and elevation of three surveyed control points (STA 352, STA 362 and STA 391) (established by DEM Surveying of Brookville, PA) are shown on the plans.

No specific post construction storm water management BMP's are proposed as the site should not see a significant increase in runoff volume from a 2-year/24 hour frequency storm when the project is complete.



Sheet

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

The graphic scale bar is a horizontal bar divided into 10 equal segments, each representing 20 feet. The segments are labeled 0, 20, 40, 60, 80, and 100. The segments are colored in a repeating pattern of black and white. To the left of the scale bar is a north arrow pointing upwards, and to the right is a break symbol consisting of two parallel lines with a diagonal slash between them.

E&S Control Plan			
Whisky Run #9			
Passive Treatment System			
MUNICIPALITY: Young Township	DATE: see revision block	FILE NAME: Whisky LIDAR.dwg	
COUNTY: Indiana County, PA	DRAWN BY: NAW	SCALE: as shown	

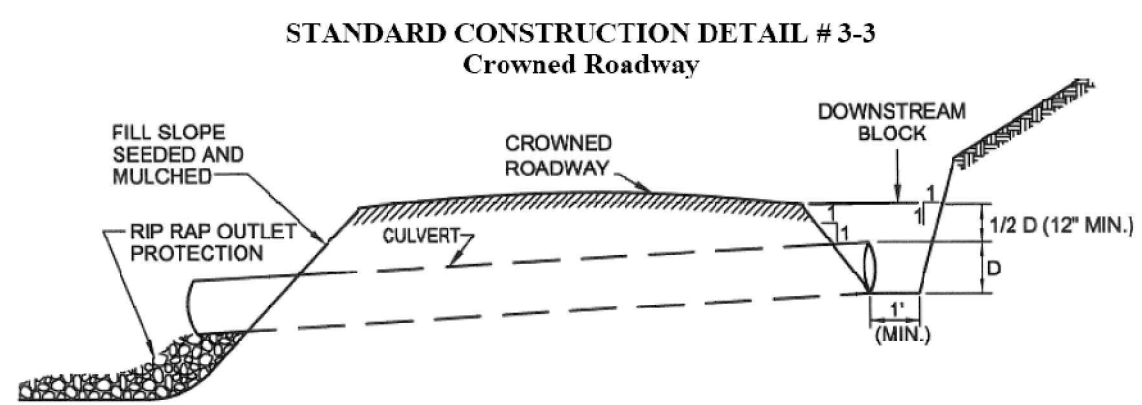


HedinEnvironmental

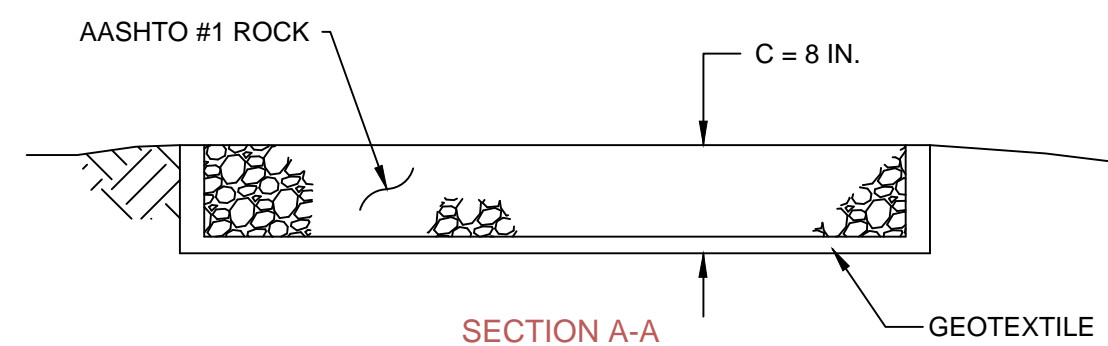
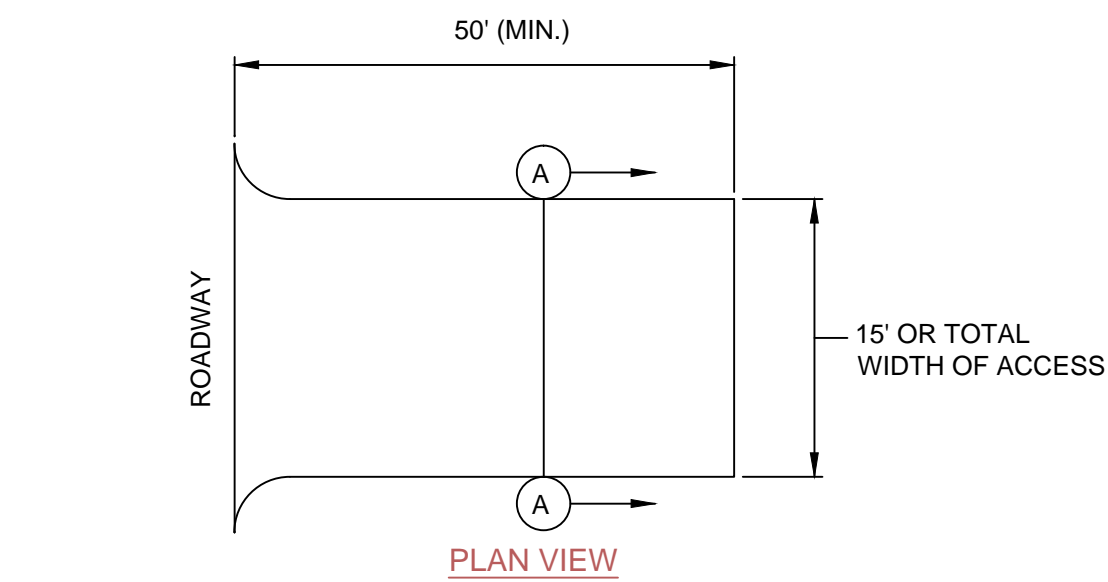
195 Castle Shannon Blvd.
Pittsburgh, PA 15228
www.hedinenv.com

Design Criteria Developed By
Hedin Environmental

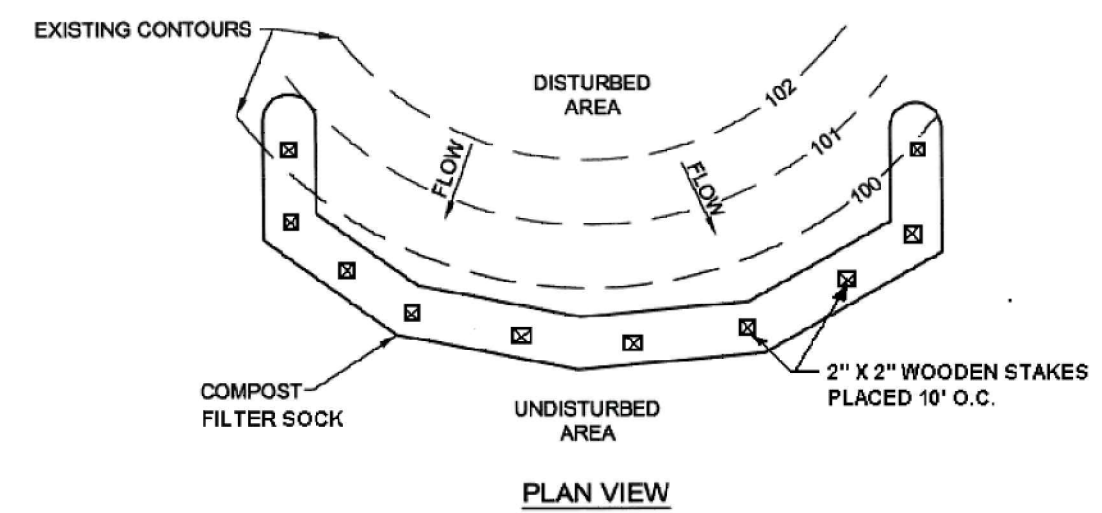
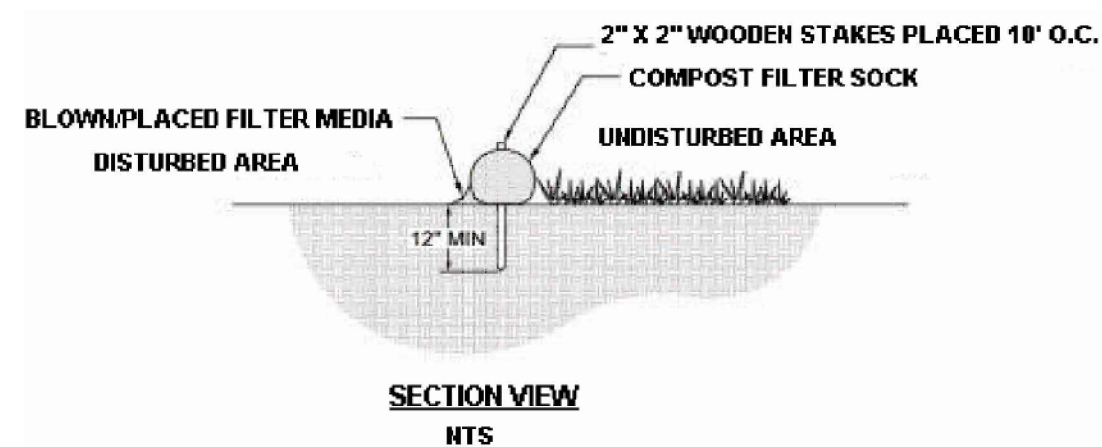
8				
7				
6				
5				
4				
3				
2	6/22/12	Change layout and add new E&S text		
1	5/31/12	Hatch disposal area, expand site bdry, misc. edits		
No.	Date	Description		NW
				By



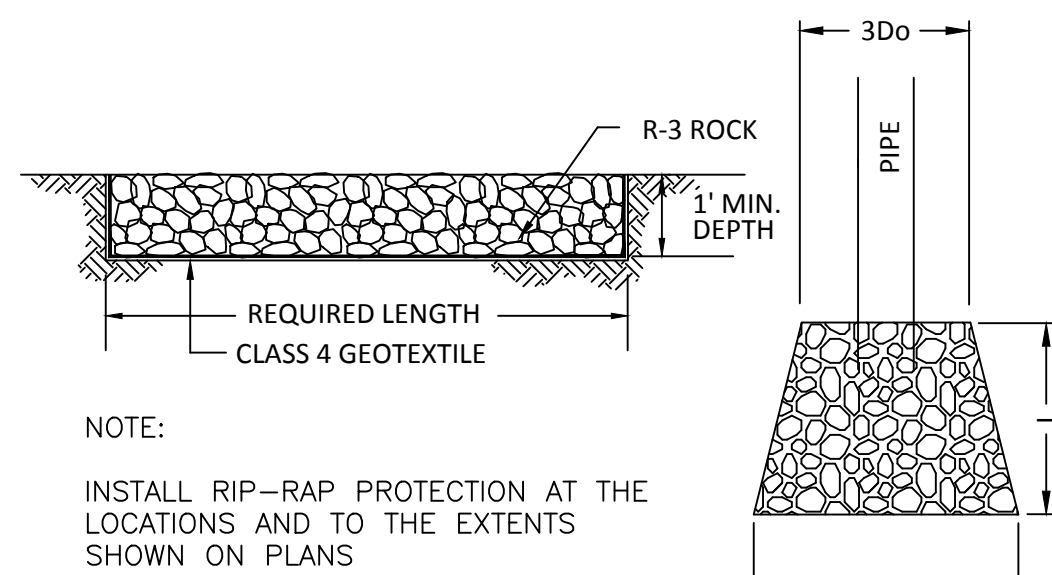
PA DEP
INSTALL CULVERTS EVERY 500' ALONG ACCESS ROAD
Access Road Detail
NO SCALE



Rock Construction Entrance
NO SCALE



18" Filter Sock
NO SCALE

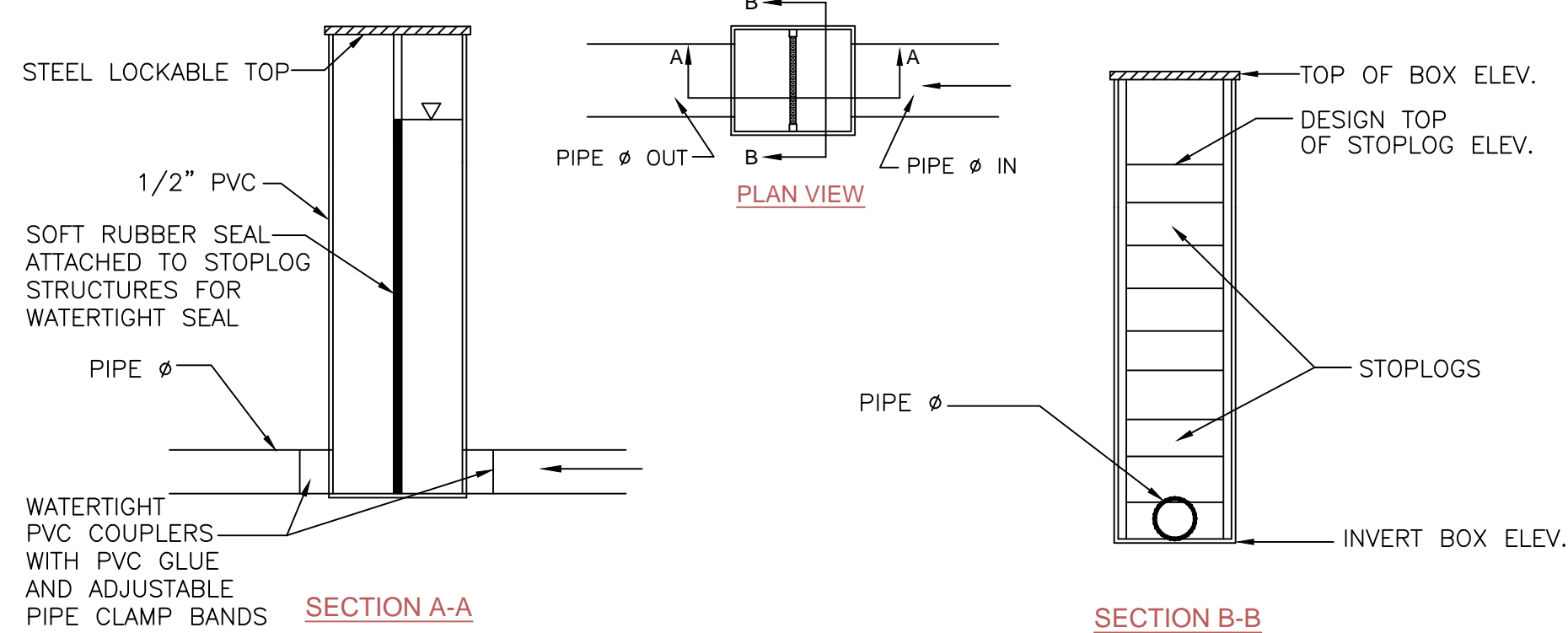


Rock Outlet Protection
NO SCALE



Bypass Weir
NO SCALE

E&S Details

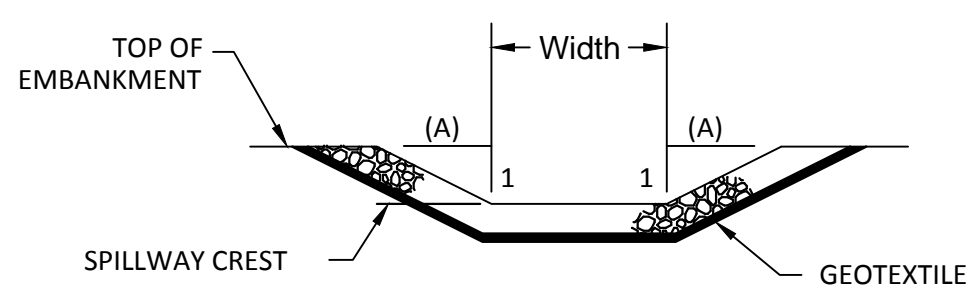


INLINE STRUCTURE	TOP OF BOX ELEV.	INVERT BOX ELEV.	STRUCTURE HEIGHT (FT)	INSIDE DIMENSION WIDTH	INSIDE DIMENSION DEPTH	PIPE Ø (IN)	PIPE TYPE	TOP STOPLOG ELEV.
Cell 1	1,112.0	1,104.0	8	14"	16"	15	PVC	1,107.0

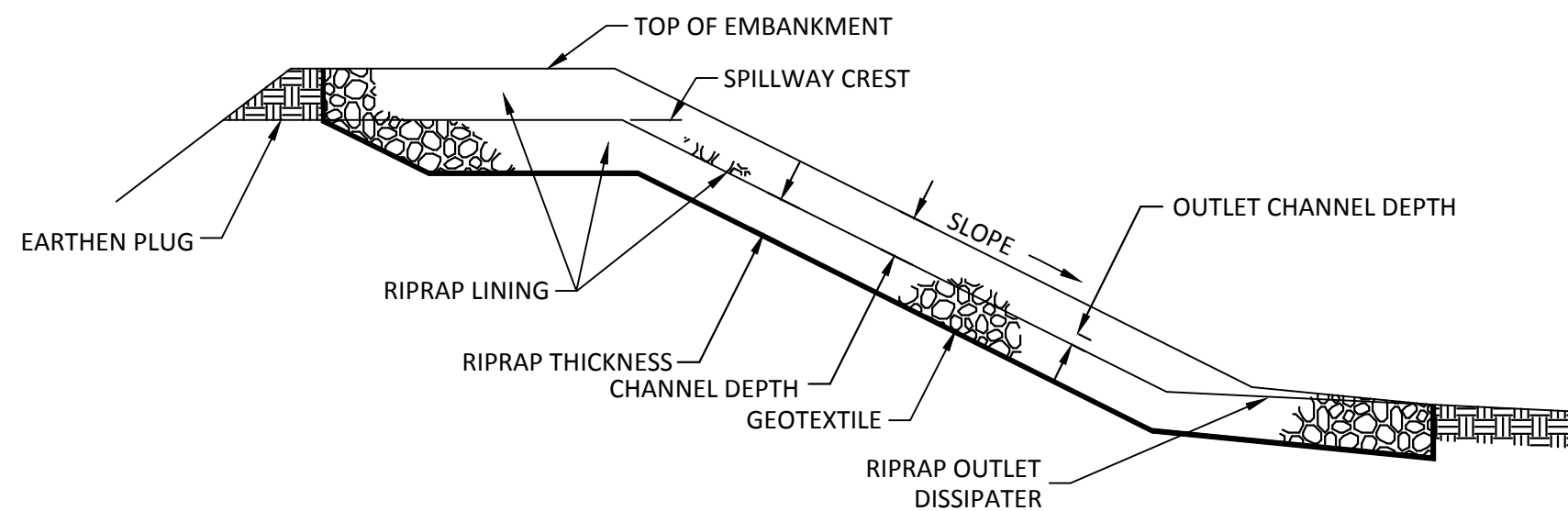
AgriDrain Inline Water Level Control Structure
NO SCALE

LOCATION	TOP OF BERM ELEV.	BOT. ELEV.	SPILLWAY ELEV.
Cell 1	All Cut	1,104.0	1,107.5
Cell 2	1,105.0	1,102.0	1,103.0
Cell 3	1,104.0	1,101.0	1,102.0
Cell 4	1,096.0	1,093.0	1,094.0

Elevation Table



SPILLWAY CROSS-SECTION



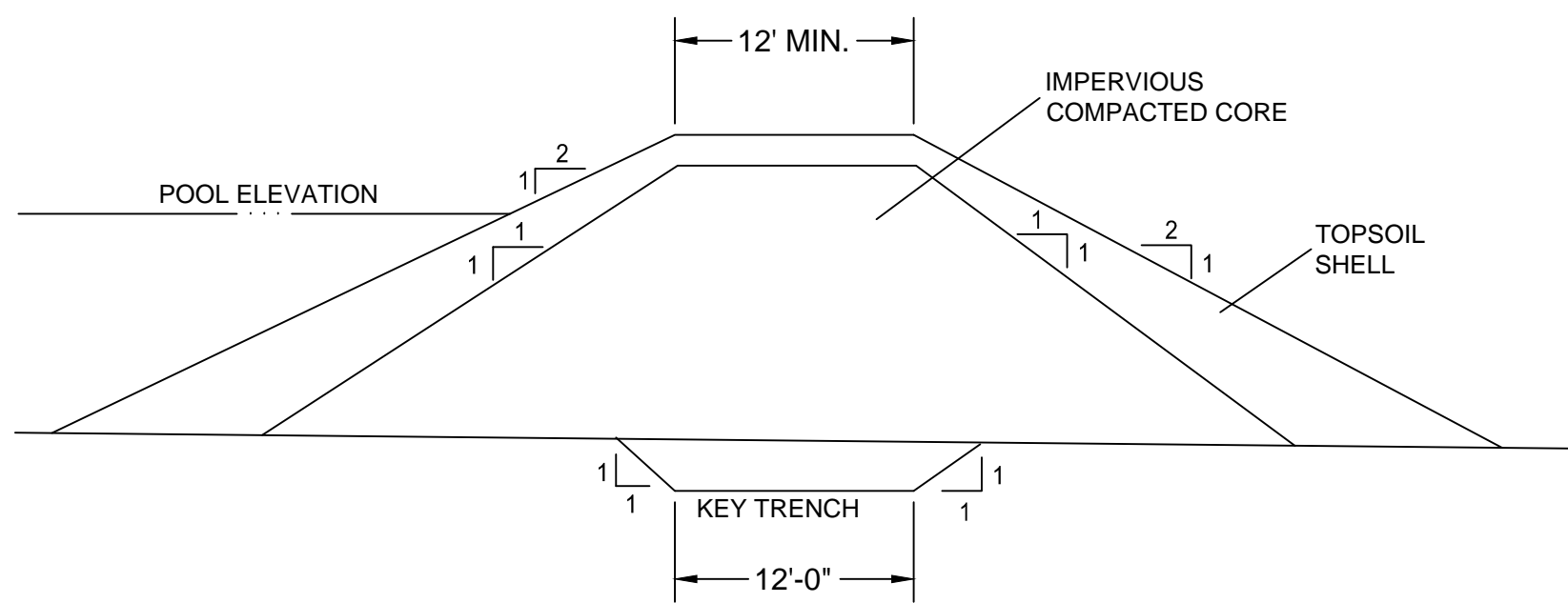
CHANNEL SECTION

Rock Lined Channel

NO SCALE

Channel	TOTAL LENGTH	BOT. WIDTH	SLOPE	(A) SIDE SLOPE	DESIGN FLOW	CHANNEL DEPTH	RIP RAP SIZE	RIP RAP THICKNESS	TOP BERM ELEV.	SPILLWAY CREST ELEV.
Channel 1	104'	4.0'	7.69%	2:1	1,100 GPM	2' MIN.	R-4 MIN.	18" MIN.	1,105.0	1,102.5
Channel 2	220'	3.8'	14.75%	3:1	1,100 GPM	2' MIN.	R-5 MIN.	27" MIN.	1,096.0	1,093.5

Channel Table



Typical Berm Section
NO SCALE

Sheet
22
of

Details

Whisky Run #9
Passive Treatment System

FILE NAME:	Whisky LIDAR.dwg
DATE:	September 7, 2011
MUNICIPALITY:	Young Township
COUNTY:	Indiana County, PA
DRAWN BY:	NAW
SCALE:	as shown



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Design Criteria Developed By
Hedin Environmental

By

Date

Description

Remove E&S maintenance text, move to sheet 1

16/22/12

2

3

4

5

6

7

8

