

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ACID MINE DRAINAGE ABATEMENT PROJECT  
ROCKY RIDGE SOUTH

TODD TOWNSHIP

HUNTINGDON COUNTY

CONTRACT NO. AMD 31(6959)101.1

DRAWING INDEX

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TOM RIDGE

GOVERNOR

JAMES M. SEIF

SECRETARY OF ENVIRONMENTAL PROTECTION

Prepared By

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF ABANDONED MINE RECLAMATION  
EBENSBURG DISTRICT



APPROVED

Charles H. Meyers  
CHARLES H. MEYERS P.E.  
DISTRICT ENGINEER - EBENSBURG  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

8-1-97  
DATE

# PROPERTY OWNERS

- 1 PENNSYLVANIA GAME COMMISSION  
2001 ELMERTON AVE.  
HARRISBURG, PA. 17110-9797
- 2 EAST BROAD TOP RAILROAD & COAL CO.  
BOX 158  
ROCKHILL FURNACE, PA. 17249

## LEGEND

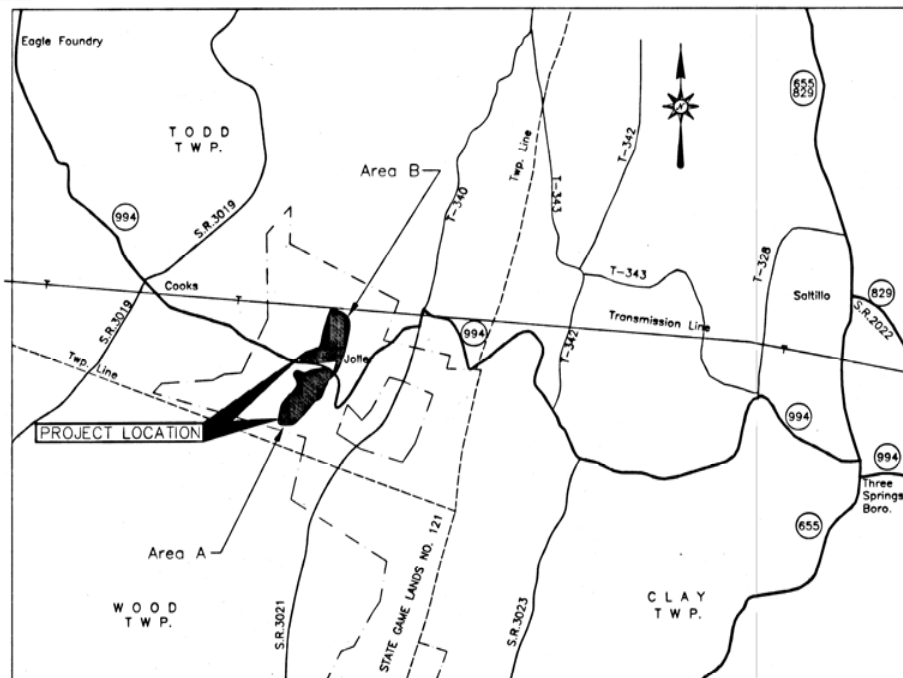
- LIMITS OF CONTRACTOR'S WORKING AREA (C.W.A.),  
GRADING (WHERE APPLICABLE), AND SEEDING (WHERE APPLICABLE)
- LIMITS OF GRADING AND SEEDING (WHERE APPLICABLE)
- 1280 --- PROPOSED CONTOURS
- 1280 --- EXISTING CONTOURS
- DITCH
- APPROXIMATE PROPERTY LINE
- CONSTRUCTION BASELINE
- UTILITY POLE
- OVERHEAD POWER LINE
- OVERHEAD TELEPHONE LINE
- UNDERGROUND TELEPHONE LINE
- DEEP MINE OPENING
- PIPES AND DRAINS
- SUBSURFACE DRAIN
- SPILLWAY
- MANHOLE
- RISER PIPE
- INLINE LEVEL CONTROL STRUCTURE
- 8 INCH. DIA. PVC BUTTERFLY VALVE
- SEDIMENT BASIN
- LIMIT OF SEDIMENT BASIN BACKFILL
- FILTER FABRIC FENCE
- DIVERSION DITCH
- TEMPORARY COLLECTION DITCH
- CLEANOUT
- PP --- 4" PERFORATED PIPE (PROPOSED)

## UNDER PUBLIC UTILITIES ACT NO. 187

The Contractor shall comply with the Act of December 10, 1974 (Public Law 852, No. 287), As Amended, which defines the procedures for notification to Public Utilities prior to excavation, drilling or demolition work using power equipment or explosives.

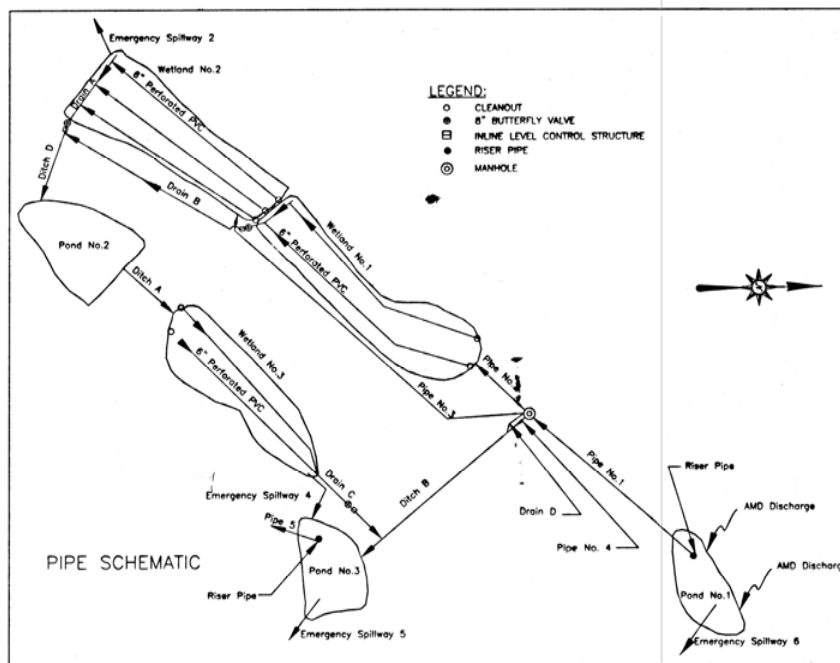
## UTILITY LISTINGS

COMPANY	TYPE OF FACILITY	ADDRESS	PHONE
Pennsylvania Electric Co.	Overhead Power Lines	405 West Plank Road P. O. Box 1928 Altoona, Pa. 16603	Contact: Tom Luther Bedford Foreman (814)-632-2741
Sprint/United Telephone	Overhead Telephone Lines	c/o Juls, Inc. 13 Brookwood Ave. Carlisle, Pa. 17013	(717)-249-5857

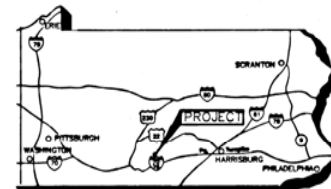


VICINITY MAP

Scale 1 in. = 2000 ft.



PIPE SCHEMATIC



LOCATION MAP

No Scale

## GENERAL NOTES:

1. Elevations of the features are to be taken from the Bench Marks shown on the Drawing(s).
2. Limits of Grading and Seeding as shown on the plan are approximate. Minor deviations may be permitted subject to the approval of the Engineer.
3. All areas outside of the seeding limits that are disturbed by the Contractor must be restored to as good as or better than the existing conditions.
4. All areas where 2 ft. contours are not shown shall be graded at a uniform slope between 10 ft. contour intervals.
5. Minor adjustments in the grade may be made by the Engineer to suit field conditions.
6. Location(s) of the utilities shown on the Drawings are based on the information provided by the utility companies. The accuracy of this information is not guaranteed. The Contractor shall contact the utility companies listed on this drawing prior to any construction activity.
7. Impoundment depths as shown on the cross sections are based on visual observations only and are not guaranteed. The Contractor shall dewater all impoundments existing, within the grading limits, at the time of construction of the project.
8. The property lines as shown on the drawing are approximate.
9. The soil cover area indicated on Site A basically includes the area northeast of ditch B and between ponds 1 and 3. Minor adjustments to this area may be necessary to suit field conditions.

NO.	DATE	REVISION	APPROVED
1	10/19/97	1	Charles A. Meyer



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONTRACT NO. AMD 31(6959)101.1

AMD ABATEMENT PROJECT  
ROCKY RIDGE SOUTH

TODD TWP. HUNTINGDON COUNTY

LOCATION, VICINITY MAPS  
AND PIPE SCHEMATIC

ALL DIMENSIONS AND EXISTING  
CONDITIONS SHALL BE CHECKED  
AND VERIFIED BY CONTRACTOR  
AT THE SITE.

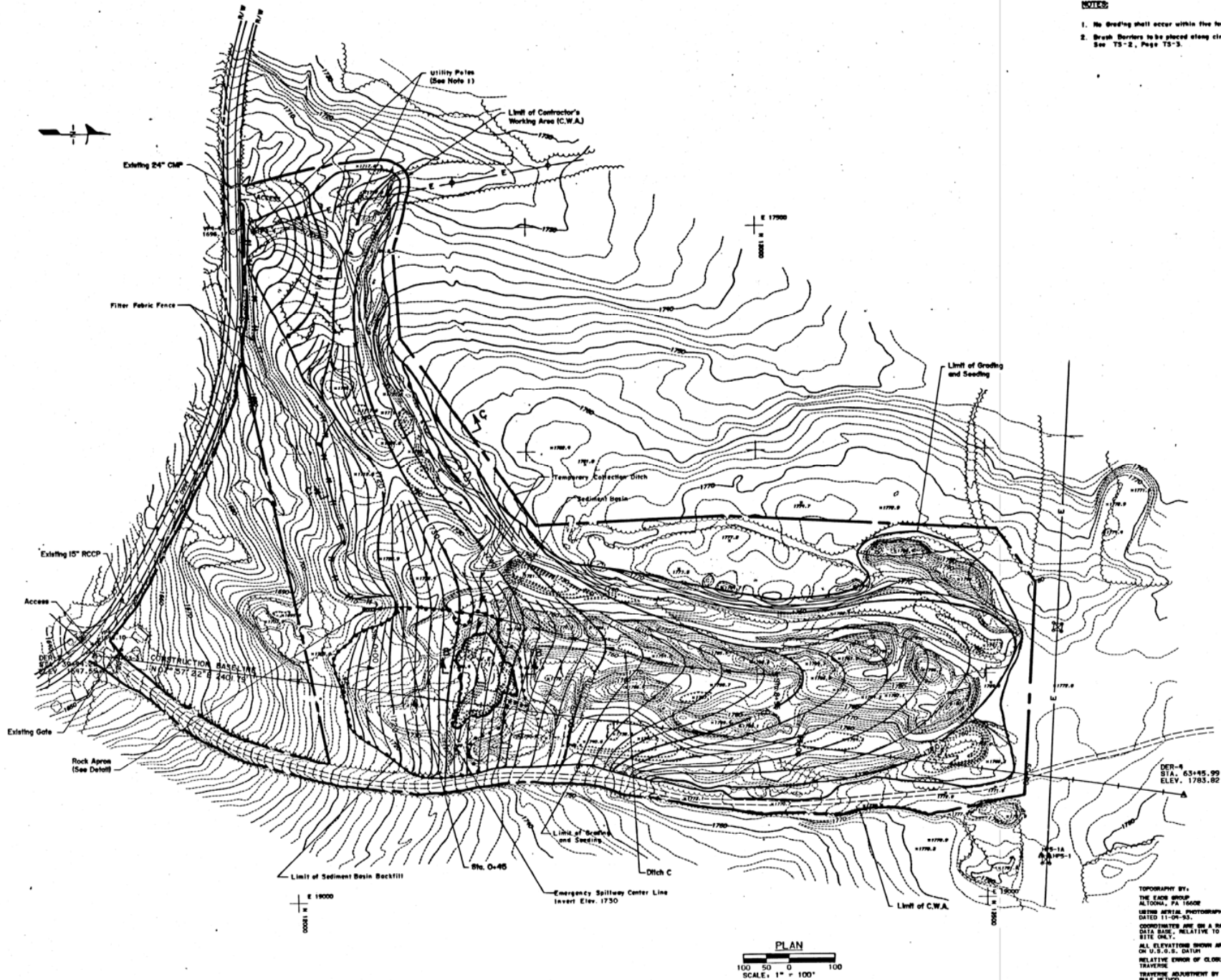
Drawn by: J. Lee  
Checked by: J. Lee  
Date: May 19, 1997  
Scale: As Shown

2 of 13



# NOTES

1. No Grading shall occur within five feet of wood poles.
2. Brush Barriers to be placed along circumference of Limit of Grading. See TS-2, Page TS-3.

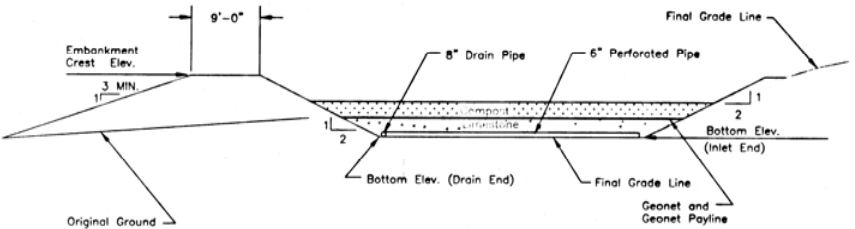


NO.	DATE	REVISION
NO. 1 DATE 11-07-83 REVISION DESIGNER REVIEWER DISTRICT ENGINEER		
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION CONTRACT NO. AMD 31 (6959) 101 AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH		
TODD TWP. HUNTINGDON CO. PA.		
PLAN - AREA B		
DRAWN BY CHECKED BY DATE	MAY 16, 1997 SCALE AS SHOWN	SHEET NO. 4 of 13

TOPOGRAPHY BY:  
 THE ECHO GROUP  
 ALTOONA, PA 16801  
 LISTED PROFESSIONAL PHOTOGRAPHY  
 DATED 11-07-83.  
 CONTOURS ARE ON A RANDOM  
 DATA BASE, RELATIVE TO THIS  
 SITE ONLY.  
 ALL ELEVATIONS SHOWN ARE BASED  
 ON U.S.C.S. DATUM.  
 RELATIVE TO THIS SITE ONLY.  
 TRAVELER ADJUSTMENT BY COMPASS  
 BEARINGS.  
 ALL DIMENSIONS AND EXISTING  
 CONDITIONS SHALL BE CHECKED  
 AND VERIFIED BY CONTRACTOR  
 AT THE SITE.

PLAN  
 100 50 0 100  
 SCALE: 1" = 100'

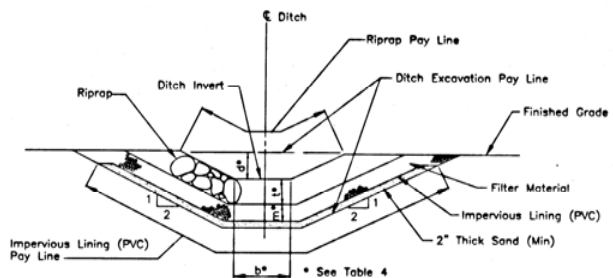
NOTE: See Table 1 for Elevations and Individual Layer Thicknesses



CONSTRUCTED WETLAND DETAIL  
No Scale

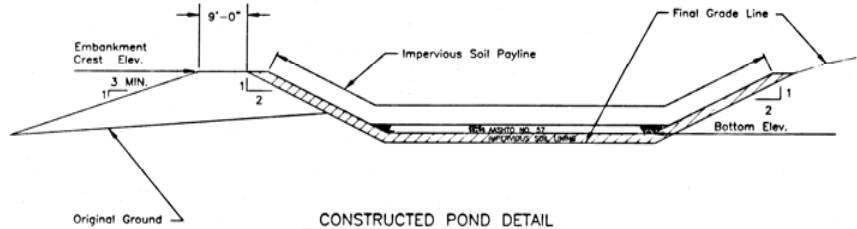
TABLE 1  
INFORMATION FOR WETLAND CONSTRUCTION

WETLAND NO.	ELEVATIONS			LAYER THICKNESS		WATER DEPTH
	EMBANKMENT CREST	INLET END	DRAIN END	LIMESTONE	COMPOST	
1	1615.0	1610.0	1609.0	1.5 ft.	1.5 ft.	0.5 ft. - 1.5 ft.
2	1615.0	1610.0	1609.0	1.5 ft.	1.5 ft.	0.5 ft. - 1.5 ft.
3	1574.0	1568.0	1567.0	2.0 ft.	2.0 ft.	0.5 ft. - 1.5 ft.



RIPRAP DITCH WITH IMPERVIOUS LINING (PVC)  
No Scale

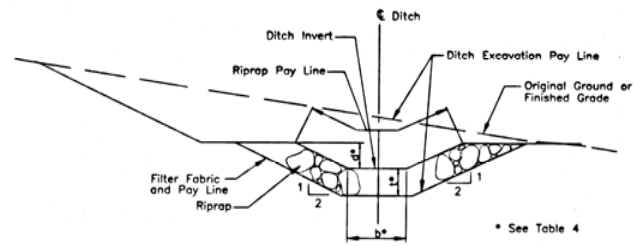
NOTE: See Table 2 for Elevations and Individual Layer Thickness



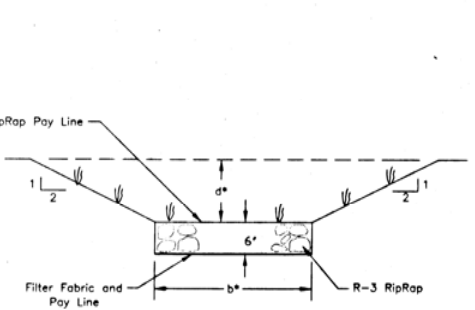
CONSTRUCTED POND DETAIL  
No Scale

TABLE 2  
INFORMATION FOR POND CONSTRUCTION

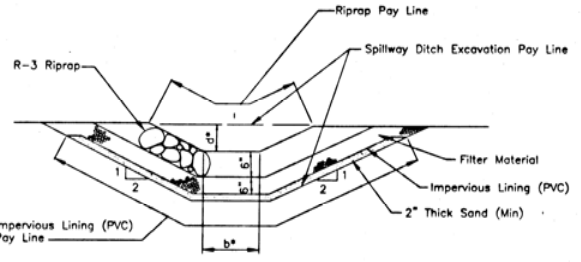
POND NO.	ELEVATIONS		IMPERVIOUS SOIL THICKNESS	ASHTO NO. 57 THICKNESS
	EMBANKMENT CREST	BOTTOM		
1	1626.0	1618.7	8 in.	6 in.
2	1578.0	1569.0	NONE	NONE
3	1548.0	1541.7	8 in.	6 in.



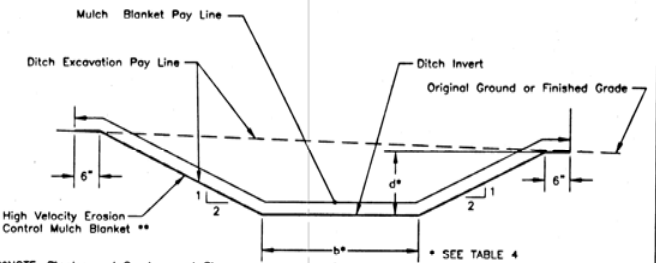
RIPRAP DITCH  
No Scale



SPILLWAY NOS. 2, 4, 5 AND 6 \* SEE TABLE 3  
No Scale



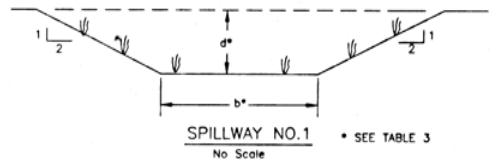
SPILLWAY NO. 3 \* SEE TABLE 3  
No Scale



DITCH WITH HIGH VELOCITY EROSION CONTROL MULCH BLANKET  
No Scale

TABLE 4  
INFORMATION FOR DITCH CONSTRUCTION

DITCH	b	d	t	m	MATERIAL	LENGTH
A	2 FT.	1.0 FT.	6 IN.	6 IN.	R-3 Riprap (Limestone) With Impervious Lining (PVC) (No Filter Fabric)	90 FT.
B	3 FT.	1.0 FT.	12 IN.	6 IN.	R-4 Riprap (Limestone) With Impervious Lining (PVC) (No Filter Fabric)	300 FT.
C Sta. 0+45 to Sta. 8+95	3 FT.	1.0 FT.	—	—	High Velocity Erosion Control Mulch Blanket	895 FT.
D Sta. 0+00 to Sta. 0+45	3 FT.	1.0 FT.	12 IN.	—	R-4 Riprap	
D	1 FT.	1.0 FT.	6 IN.	—	R-3 Riprap (Limestone)	80 FT.

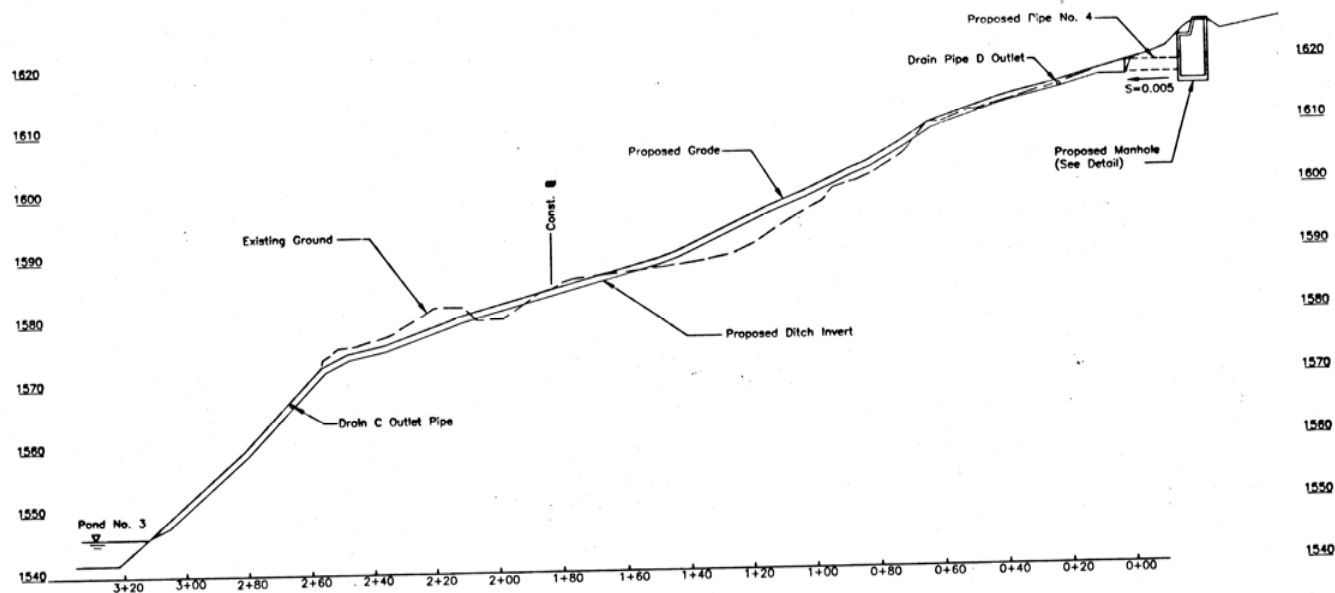


SPILLWAY NO. 1 \* SEE TABLE 3  
No Scale

TABLE 3  
INFORMATION FOR SPILLWAY CONSTRUCTION

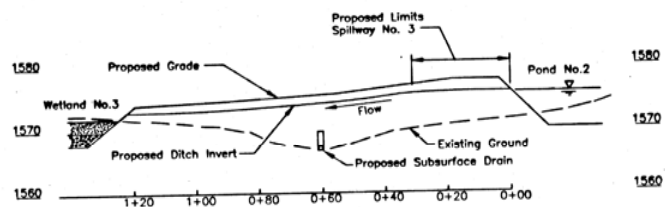
SPILLWAY NO.	b	d	APPROX. LENGTH
1	4 FT.	1.0 FT.	8 FT.
2	3 FT.	0.5 FT.	60 FT.
3	2 FT.	1.5 FT.	27 FT.
4	4 FT.	0.5 FT.	95 FT.
5	4 FT.	0.5 FT.	45 FT.
6	4 FT.	0.5 FT.	25 FT.

NO.	DATE	REVISION	APPRO
DESIGNED BY	<i>[Signature]</i>		
CHECKED BY	<i>[Signature]</i>		
APPROVED BY	<i>[Signature]</i>		
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
CONTRACT NO. AMD 31(6959)101.1			
AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH			
TODD TWP. HUNTINGDON COUNTY			
WETLAND AND DITCH DETAILS			
DATE	SCALE	SHEET NO.	
May 15, 1997	As Shown	5 of 13	



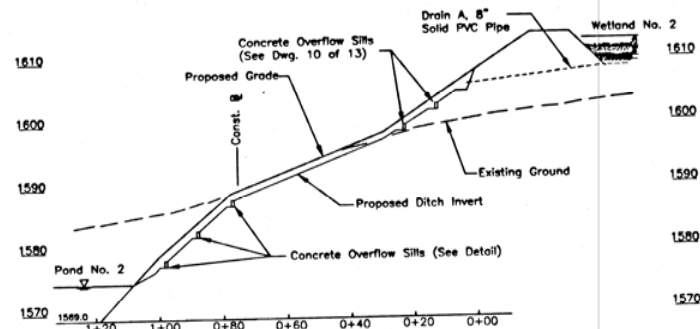
**DITCH B PROFILE**

Scale: 1" = 10' Vertical  
1" = 20' Horizontal



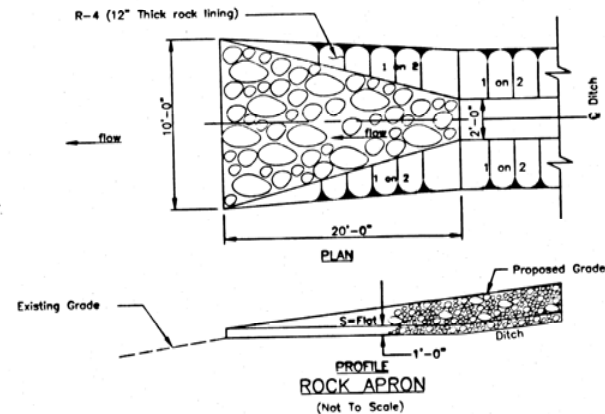
**DITCH A PROFILE**

Scale: 1" = 10' Vertical  
1" = 20' Horizontal



**DITCH D PROFILE**

Scale: 1" = 10' Vertical  
1" = 20' Horizontal



NO.	DATE	REVISION
1	May 14, 1997	As Shown



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONTRACT NO. AMD 31(6959)10

AMD ABATEMENT PROJECT  
ROCKY RIDGE SOUTH

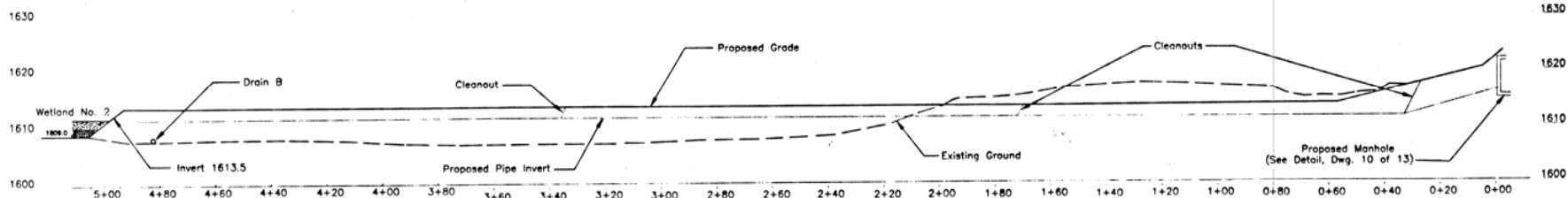
TODD TWP. HUNTINGDON CO.

**DITCH PROFILES AND DETAILS**

DESIGNED BY LEEC  
CHECKED BY LEEC  
DATE MAY 14, 1997  
SCALE As Shown

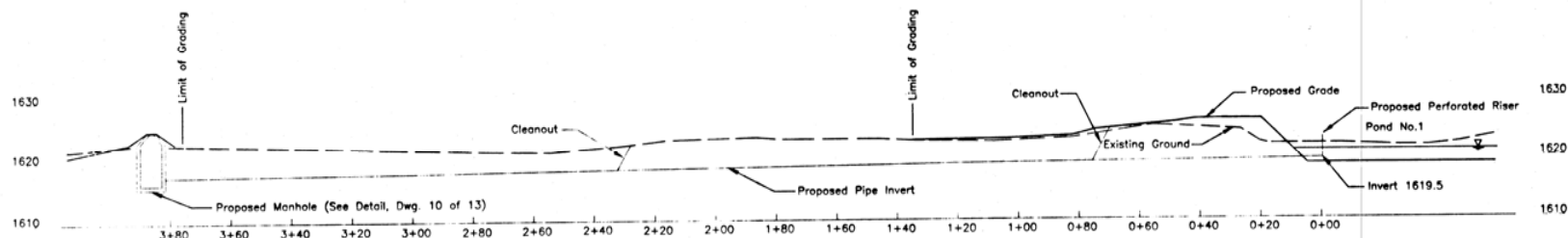
6 of 1





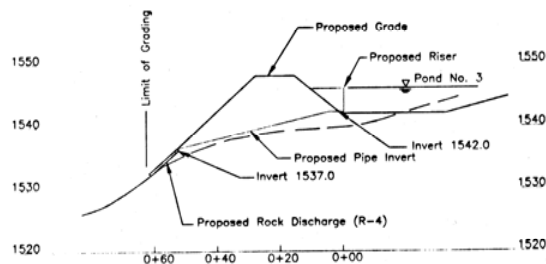
**PIPE NO. 3 PROFILE**

Scale: 1"=10' Vertical  
1"=20' Horizontal



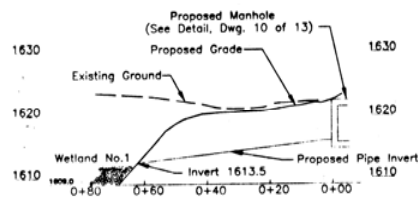
**PIPE NO. 1 PROFILE**

Scale: 1"=10' Vertical  
1"=20' Horizontal



**PIPE NO. 5 PROFILE**

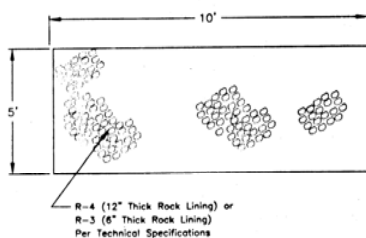
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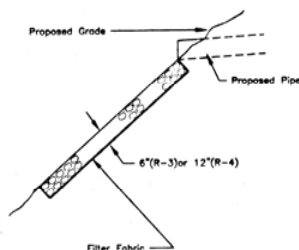
**PIPE NO. 2 PROFILE**

Scale: 1"=10' Vertical  
1"=20' Horizontal

RISER DATA TABLE				
POND NO.	RISER CREST ELEV.	RISER INVERT ELEV.	PERFORATION INVERT ELEV.	SIZE/MATERIAL
1	1623.0	1619.5	1621.0	15" Dia. C.P.P. (Heavy Duty)
3	1546.0	1542.5	N.A.	24" Dia. C.P.P. (Heavy Duty)



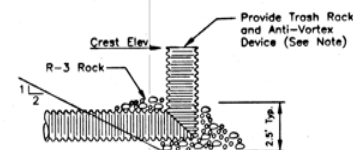
**ROCK DISCHARGE**  
NO SCALE



**TABLE 5  
PIPE INFORMATION**

PIPE NO.	NOMINAL DIA.	MATERIAL	COMMENTS
1	15 in.	*C.P.P. (Smooth Interior)	Include 15" Dia. Riser (See Detail)
2	8 in.	PVC	Manhole To Wetland No. 1
3	8 in.	PVC	Manhole To Wetland No. 2
4	24 in.	*C.P.P. (Smooth Interior)	Manhole To Ditch B
5	24 in.	*C.P.P. (Smooth Interior)	Include 24" Dia. Riser (See Detail)

\*Corrugated Polyethylene Pipe



**RISER DETAIL**

No Scale  
(See Riser Data Table For Elevations)

NOTE: Trash Rack and Anti-Vortex Device shall be constructed of Durable, Corrosive-Resistant Materials and shall be removable.

NO.	DATE	REVISION	APPR
1	10/30/1996		
2	10/30/1996		
3	10/30/1996		



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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AMD ABATEMENT PROJECT  
ROCKY RIDGE SOUTH

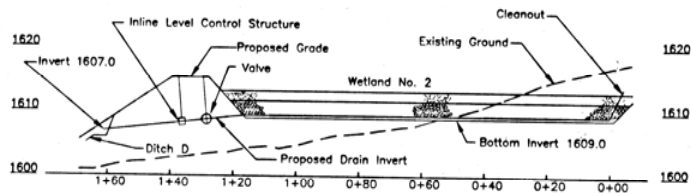
TODD TOWNSHIP HUNTINGDON COUNTY

PIPE PROFILES AND DETAILS

ALL DIMENSIONS AND EXISTING  
CONDITIONS SHALL BE CHECKED  
AND VERIFIED BY CONTRACTOR  
AT THE SITE.

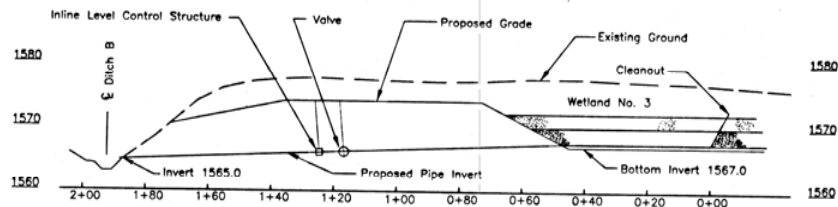
DATE	BY	DATE	BY
10/30/1996	LEE	10/30/1996	LEE
11/05/1996	LEE	11/05/1996	LEE

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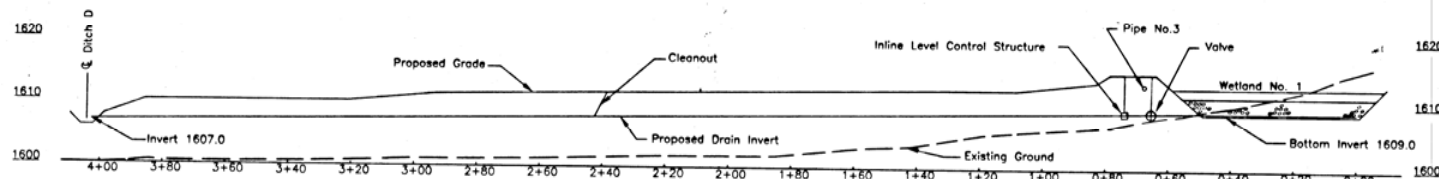
**DRAIN A PIPE PROFILE**

Scale: 1"=10' Vertical  
1"=20' Horizontal



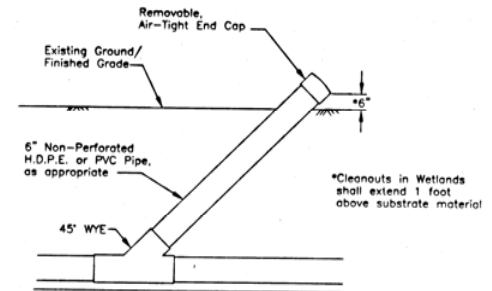
**DRAIN C PIPE PROFILE**

Scale: 1"=10' Vertical  
1"=20' Horizontal



**DRAIN B PIPE PROFILE**

Scale: 1"=10' Vertical  
1"=20' Horizontal

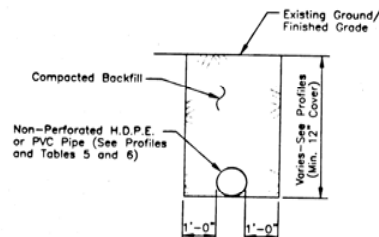


**CLEANOUT DETAIL**

No Scale

**TABLE 6  
DRAIN PIPE INFORMATION**

DRAIN	NOMINAL DIA.	MATERIAL	LENGTH	
			PERFORATED (See Note 1)	NON-PERFORATED
A	8 in.	PVC	Sta. 0+00 to Sta. 1+15	Sta. 1+15 to Sta. 1+60
B	8 in.	PVC	Sta. 0+00 to Sta. 0+46	Sta. 0+46 to Sta. 4+02
C	8 in.	PVC	Sta. 0+00 to Sta. 0+43	Sta. 0+43 to Sta. 1+88
D	6 in.	PVC	45 ft. (See Note 2)	

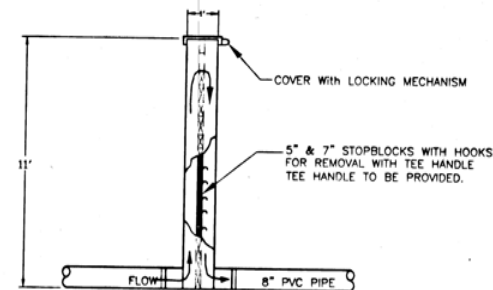


**PIPES AND DRAINS  
TYPICAL SECTION**

No Scale

**NOTES:**

- Contractor Shall Exercise Careful Backfilling Techniques During the Installation of the In-Line Level Control Structures.
- Contractor Shall Install the Structures According to Manufacture's Recommendations.



**ELEVATION**

Agri Drain - 8" PVC INLINE STOPBLOCK STRUCTURE or Approved Equal.

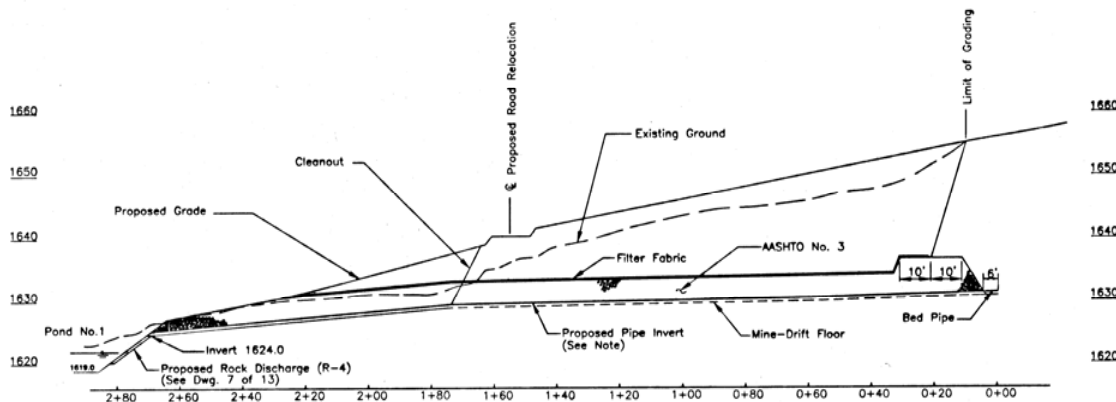
**PLAN VIEW**

**INLINE WATER LEVEL CONTROL STRUCTURE**

Scale: NONE

NO.	DATE	REVISION	APPRO.
1	7/28/97		
<p>COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION</p> <p>CONTRACT NO. AMD 31(6959)101.1</p> <p>AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH</p> <p>TODD TWP. HUNTINGDON COUNTY</p> <p>DRAIN PIPE PROFILES AND DETAILS</p>			
<p>DESIGNED BY: LEE/NTS CHECKED BY: J. C. C. C. APPROVED: Charles H. Meyer DISTRICT ENGINEER - ERIE/PA</p>			
<p>ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY CONTRACTOR AT THE SITE.</p>			
<p>DATE: July 28, 1997</p>		<p>SCALE: As Shown</p>	

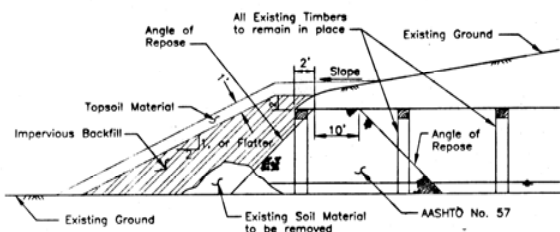




**MINE DRAIN PROFILE**

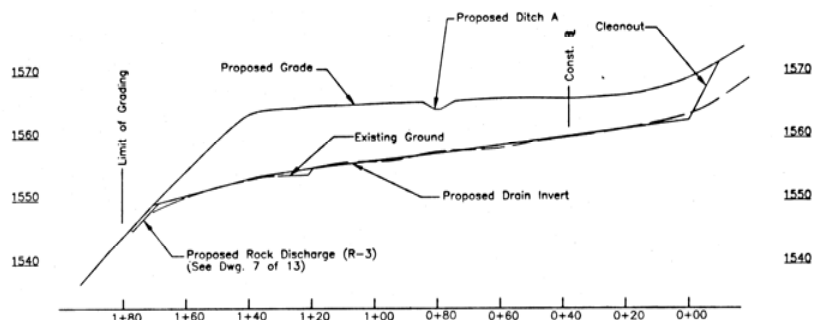
Scale: 1"=10' Vertical  
1"=20' Horizontal

NOTE: Perforated Sta. 0+00 to Sta. 1+70  
Non-Perforated Sta. 1+70 to Sta. 2+70



**MINE SEAL  
PROFILE ALONG C OF OPENING**

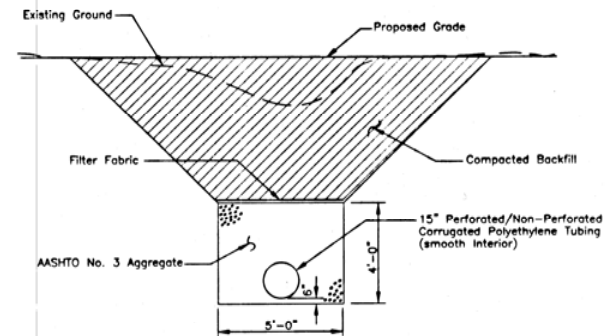
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**PROPOSED SUBSURFACE DRAIN PROFILE**

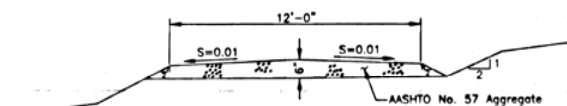
Scale: 1"=10' Vertical  
1"=20' Horizontal

NOTE: Sta. 1+60 to Sta. 1+70 to be  
constructed with Non-Perforated  
Tubing and R-3 Riprap.



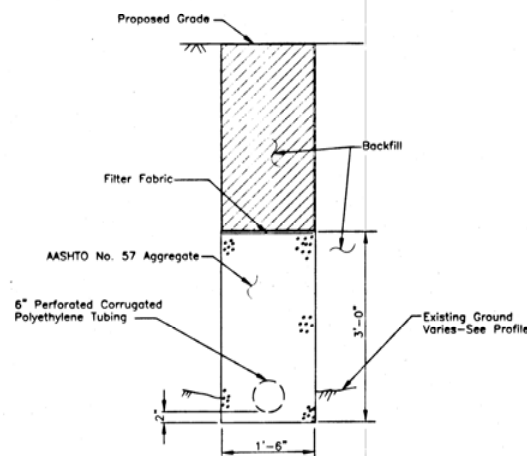
**MINE DRAIN  
TYPICAL SECTION**

No Scale



**ACCESS ROAD DETAIL  
TYPICAL SECTION**

No Scale



**SUBSURFACE DRAIN  
TYPICAL SECTION**

No Scale

ALL DIMENSIONS AND EXISTING  
CONDITIONS SHALL BE CHECKED  
AND VERIFIED BY CONTRACTOR  
AT THE SITE.

NO.	DATE	REVISION	APPR.
1	May 16, 1997		
2			
3			
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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONTRACT NO. AMD 31(6959)101.1

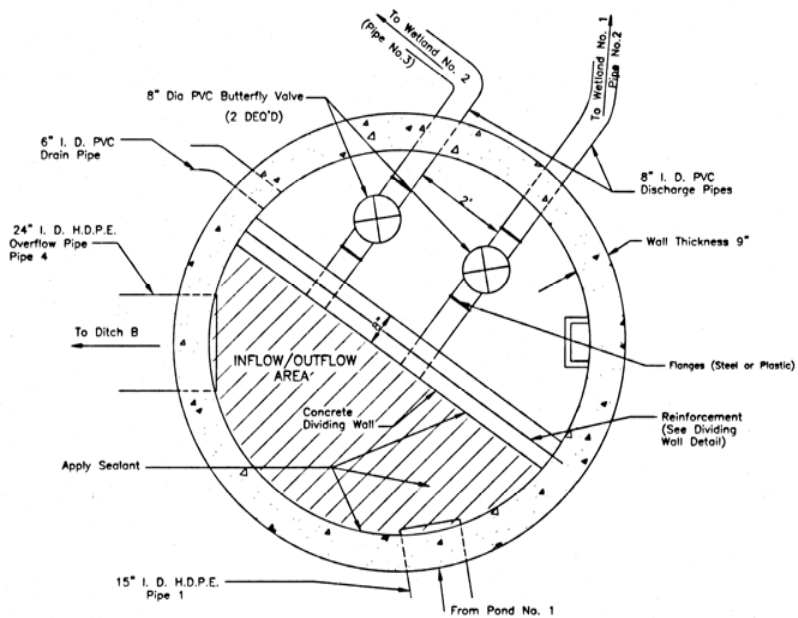
AMD ABATEMENT PROJECT  
ROCKY RIDGE SOUTH

TODD TWP. HUNTINGDON COUNTY

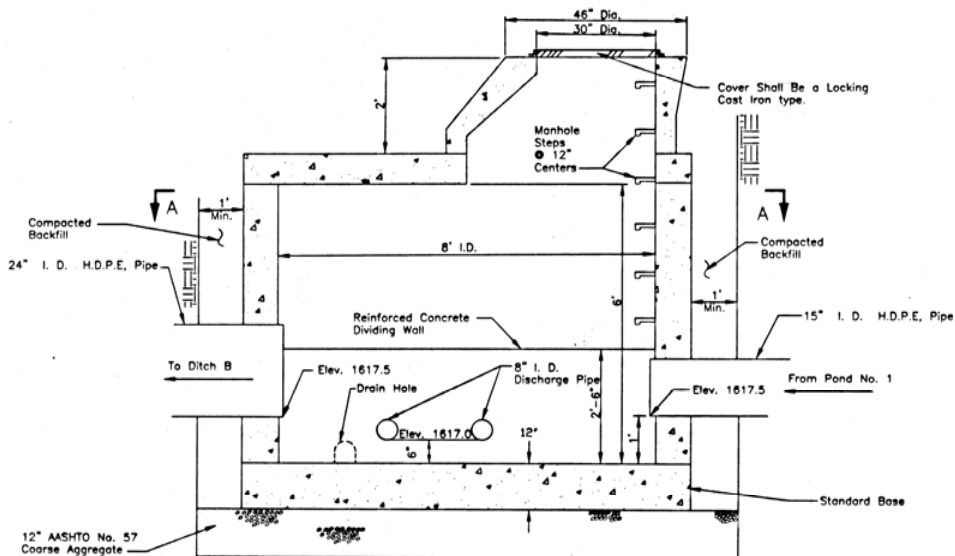
MINE DRAIN, MINE SEAL  
SUBSURFACE DRAIN PROFILES  
AND DETAILS

DESIGNED BY: LEEG/RTS  
CHECKED BY: May 16, 1997  
AS SHOWN BY: May 16, 1997

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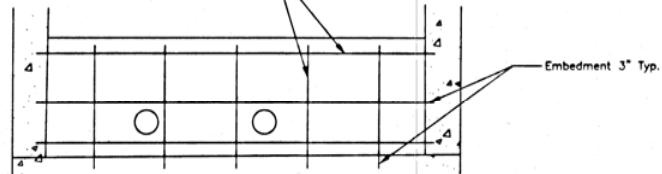


SECTION A A  
No Scale

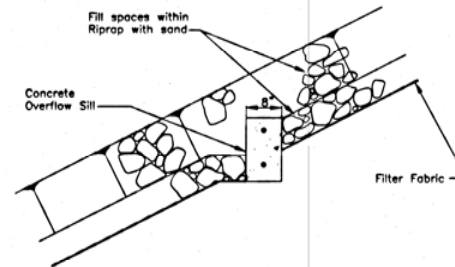


DETAIL 8' I. D. CONCRETE MANHOLE  
No Scale

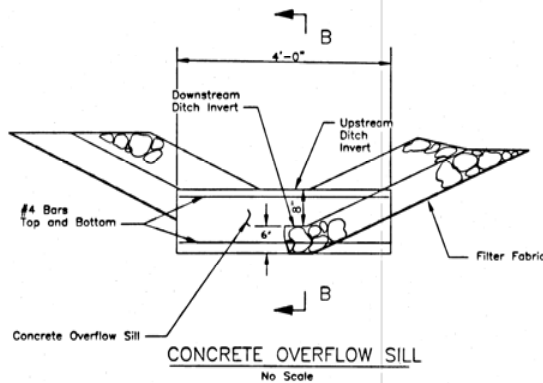
#4 Grade 60 Reinforcement Typ. (See Notes 2)



CONCRETE DIVIDING WALL  
REINFORCEMENT DETAIL  
No Scale



CONCRETE OVERFLOW SILL SECTION B B  
No Scale



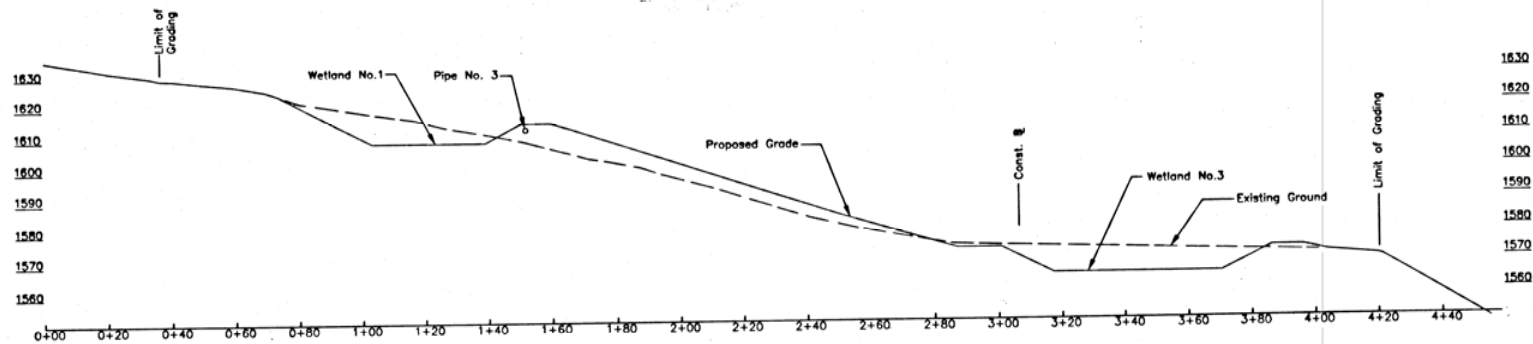
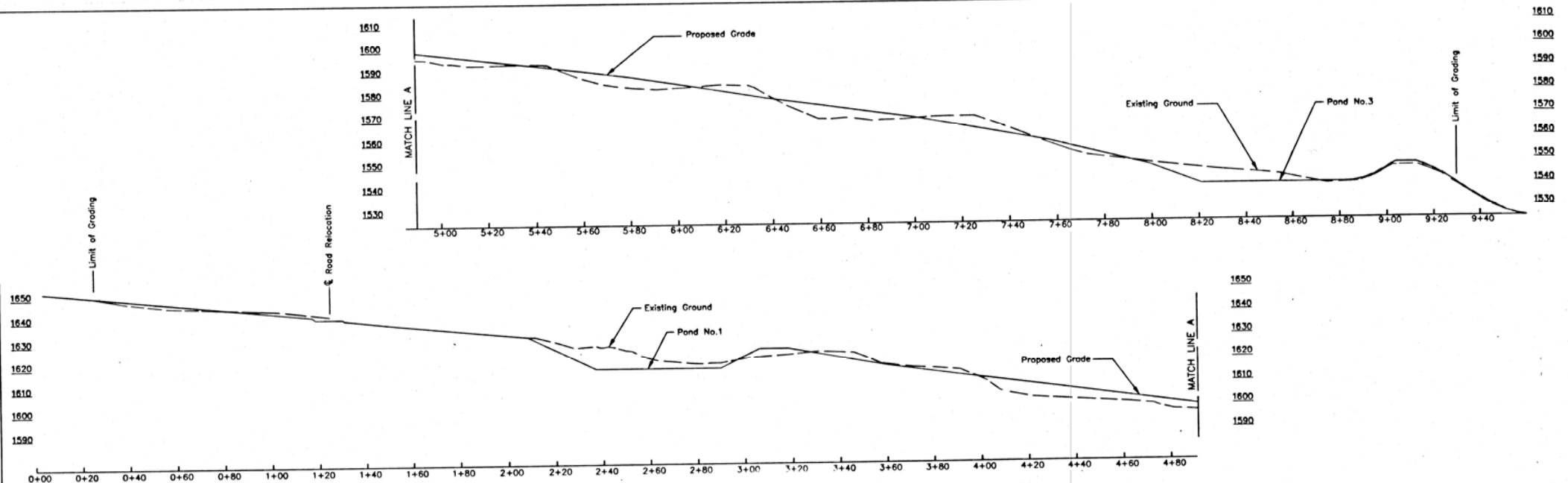
CONCRETE OVERFLOW SILL  
No Scale

NOTES:

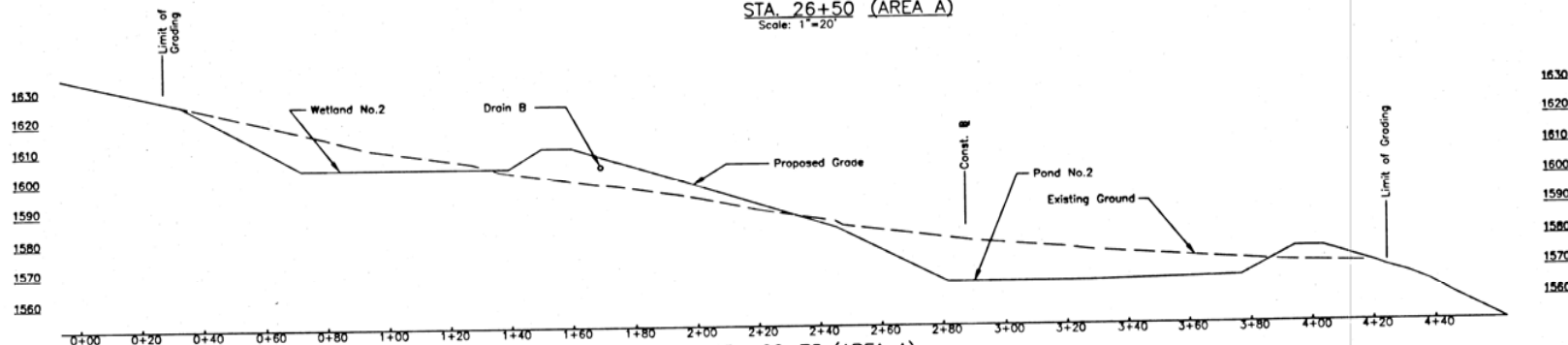
- ① Concrete shall be in accordance with PADOT Pub. 408 Section 704, Class A-A.
- ② Any splices in reinforcement shall have a minimum overlap of 12".

NO.	DATE	REVISION	APPR.
DESIGNED BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> TITLE: <i>[Signature]</i>			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
CONTRACT NO. AMD 31(6959)101.1			
AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH			
TODD TWP. HUNTINGDON COUNTY			
MANHOLE AND OVERFLOW SILL DETAILS			
DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> DATE: <i>[Signature]</i>	DATE: July 28, 1997 SCALE: As Shown	SHEET NO. 10 of 13	

ALL DIMENSIONS AND EXISTING  
CONDITIONS SHALL BE CHECKED  
AND VERIFIED BY CONTRACTOR  
AT THE SITE.



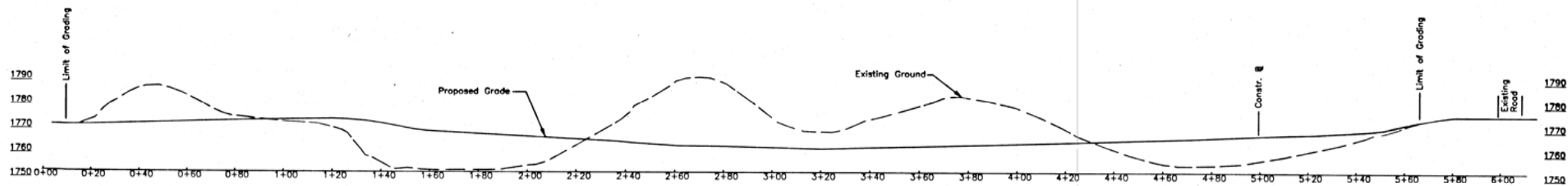
STA. 26+50 (AREA A)  
Scale: 1"=20'



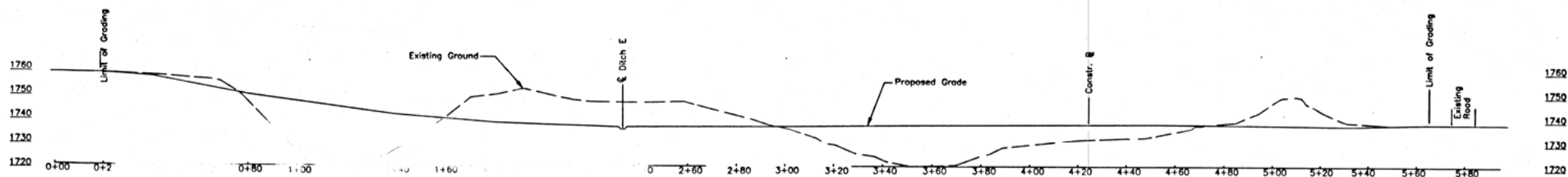
STA. 22+75 (AREA A)  
Scale: 1"=20'

NO.	DATE	REVISION	APP.
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
CONTRACT NO. AMD 31(6959)101			
AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH			
TODD TWP.		HUNTINGDON TWP.	
CROSS SECTIONS			
DRAWN BY: LEE CHECKED BY: [Signature] DATE: July 29, 1997	SCALE: As Shown	SHEET NO. 11 OF 13	

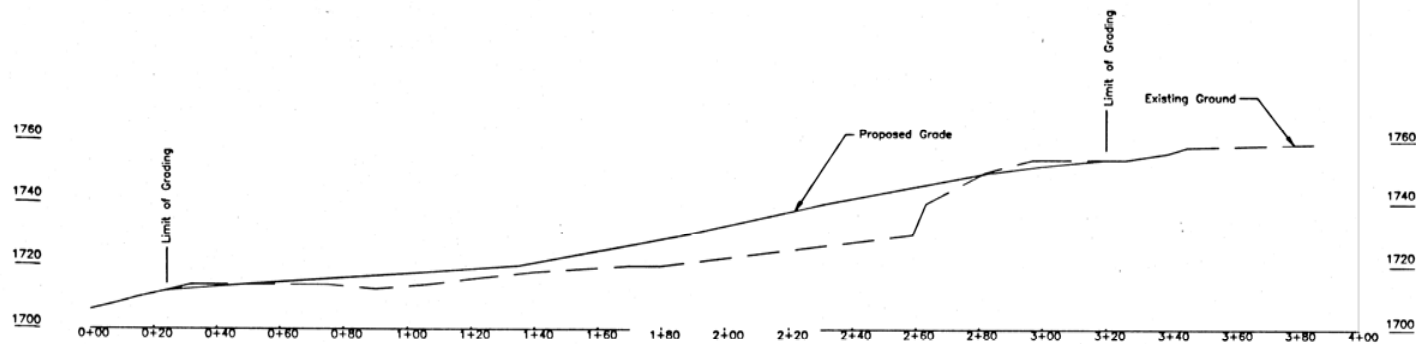
ALL DIMENSIONS AND EXISTING  
CONDITIONS SHALL BE CHECKED  
AND VERIFIED BY CONTRACTOR  
AT THE SITE.



STA. 56+20 (AREA B)  
Scale: 1"=20'



STA. 48+40 (AREA B)  
Scale: 1"=20'



SECTION C-C (AREA B)  
Scale: 1"=20'

NO.	DATE	REVISION	APPROVED



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONTRACT NO. AMD 31(6959)101.1

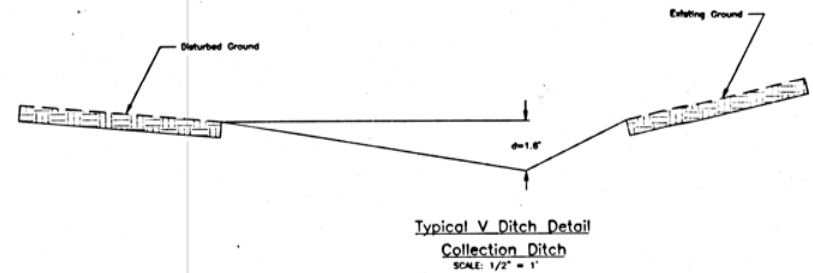
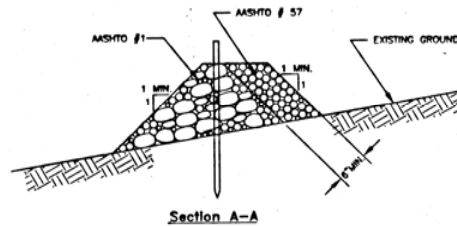
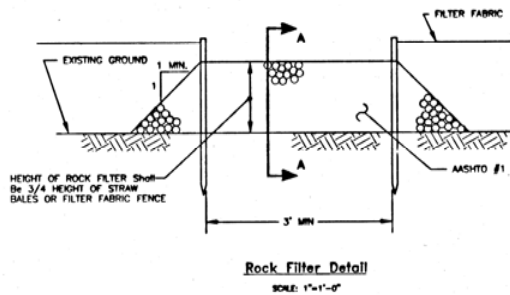
AMD ABATEMENT PROJECT  
ROCKY RIDGE SOUTH

TODD TWP. HUNTINGDON COUNTY

CROSS SECTIONS

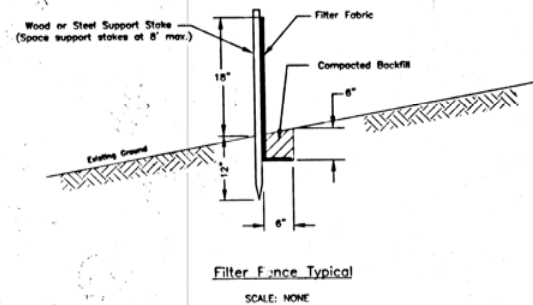
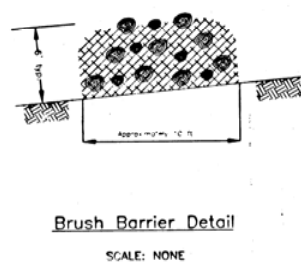
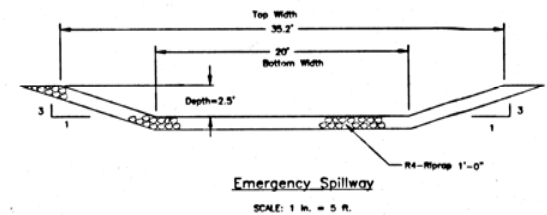
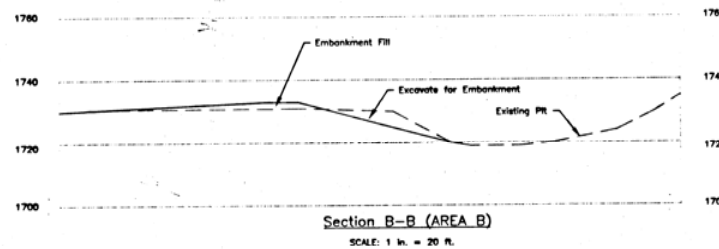
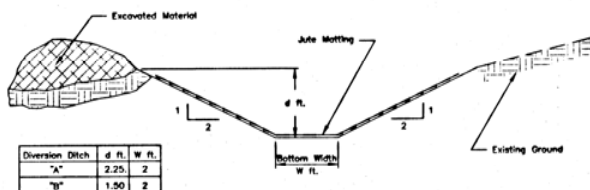
ALL DIMENSIONS AND EXISTING  
CONDITIONS SHALL BE CHECKED  
AND VERIFIED BY CONTRACTOR  
AT THE SITE.

DATE OF LET	DATE	REVISION
CHANGED BY	July 29, 1997	
AND THE NO.	DATE	
10000-10000	As Shown	



# STANDARD EROSION AND SEDIMENTATION CONTROL PLAN NOTES

- Erosion and sedimentation controls must be constructed, stabilized, and functional before site disturbance within the tributary area of those controls.
- After final site stabilization has been achieved, temporary erosion and sedimentation controls must be removed. Areas disturbed during removal of the controls must be stabilized immediately.
- Clean out stoke must be placed at half distance from point of concentrated inflow to the emergency spillway. When sediment has accumulated to clean out elevation on the stoke, it must be removed to restore basin capacity. The clean out elevation shall be 3.5 feet higher than the basin bottom elevation.
- Sedimentation basin must be protected from unauthorized acts of third party.
- Filter fabric fence must be installed at level grade. Both ends of each fence section must extend at least 10 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 Rock Filter Outlet Detail.
- Any disturbed area on which activity has ceased and which will remain exposed for more than 20 days must be stabilized immediately.
- Diversions, channels, sedimentation basin, and stockpiles must be temporarily stabilized immediately.
- Hay or straw mulch must be applied at rates of at least 3.0 tons per acre.
- Until the site is stabilized, all erosion and sedimentation must be maintained properly. Maintenance must include inspection of all erosion and sedimentation facilities after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding and remulching must be performed immediately.



REVISION		APP
 Chris B. Meyer PROJECT ENGINEER		
 COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION		
CONTRACT NO. AMD 31(6959)101		
AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH		
TODD TWP.	HUNTINGDON COUNTY	
E & S DETAILS		
DRAWN BY: SPS CHECKED BY: SPS DATE: 11-11-99 SCALE: AS SHOWN	DATE: MAY 1, 1999 SCALE: AS SHOWN	SHEET NO. 13 of 13