

## LACKAWANNA COUNTY

AJ Munchak, Chairman, Board of Commissioner Robert C. Cordaro, Commissioner Michael J. Washo, Commissioner

FABCOR, INC.

AS-BUILT DRAWINGS

MAY 12, 2008



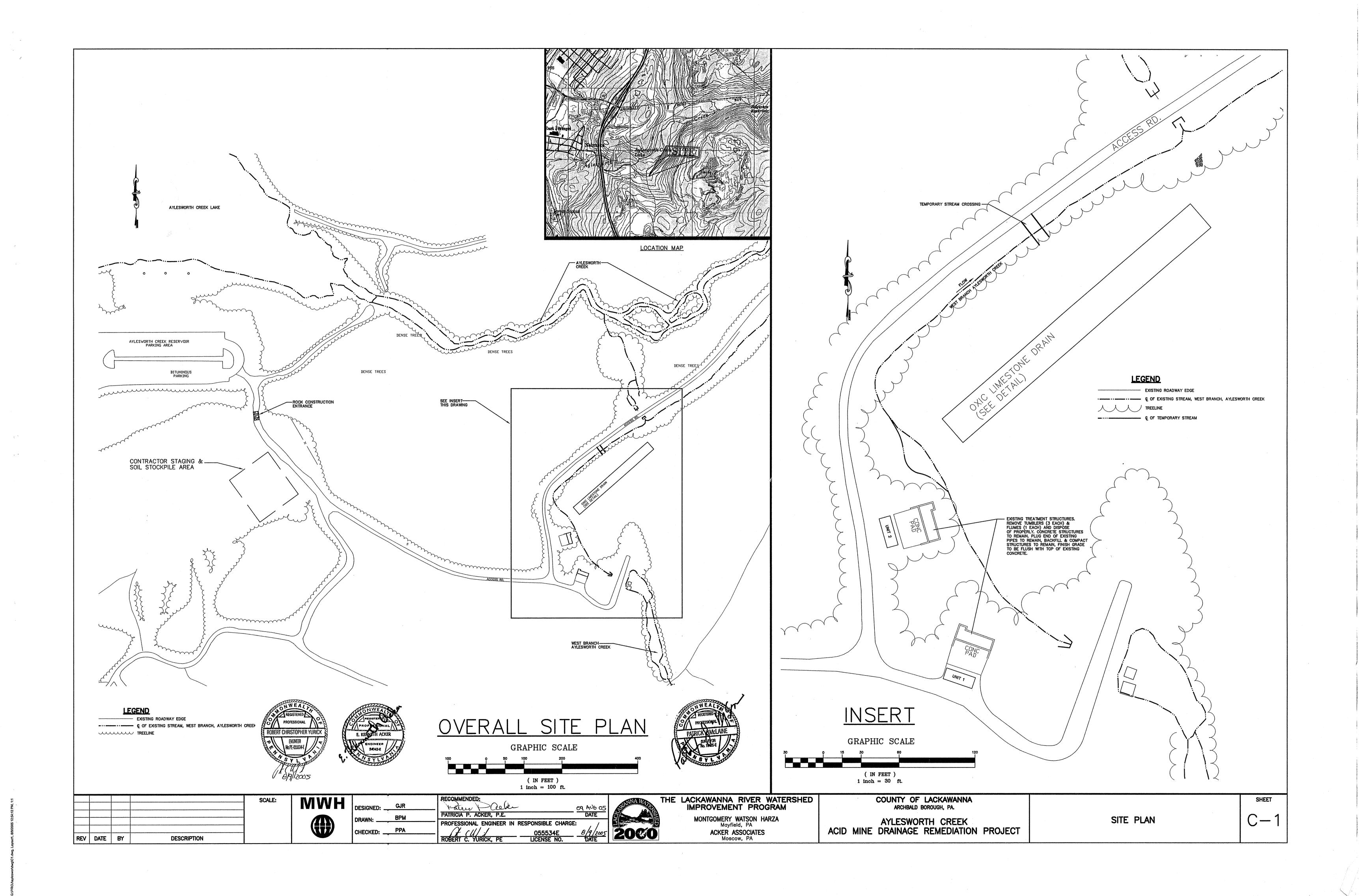
THE LACKAWANNA RIVER WATERSHED IMPROVEMENT PROGRAM

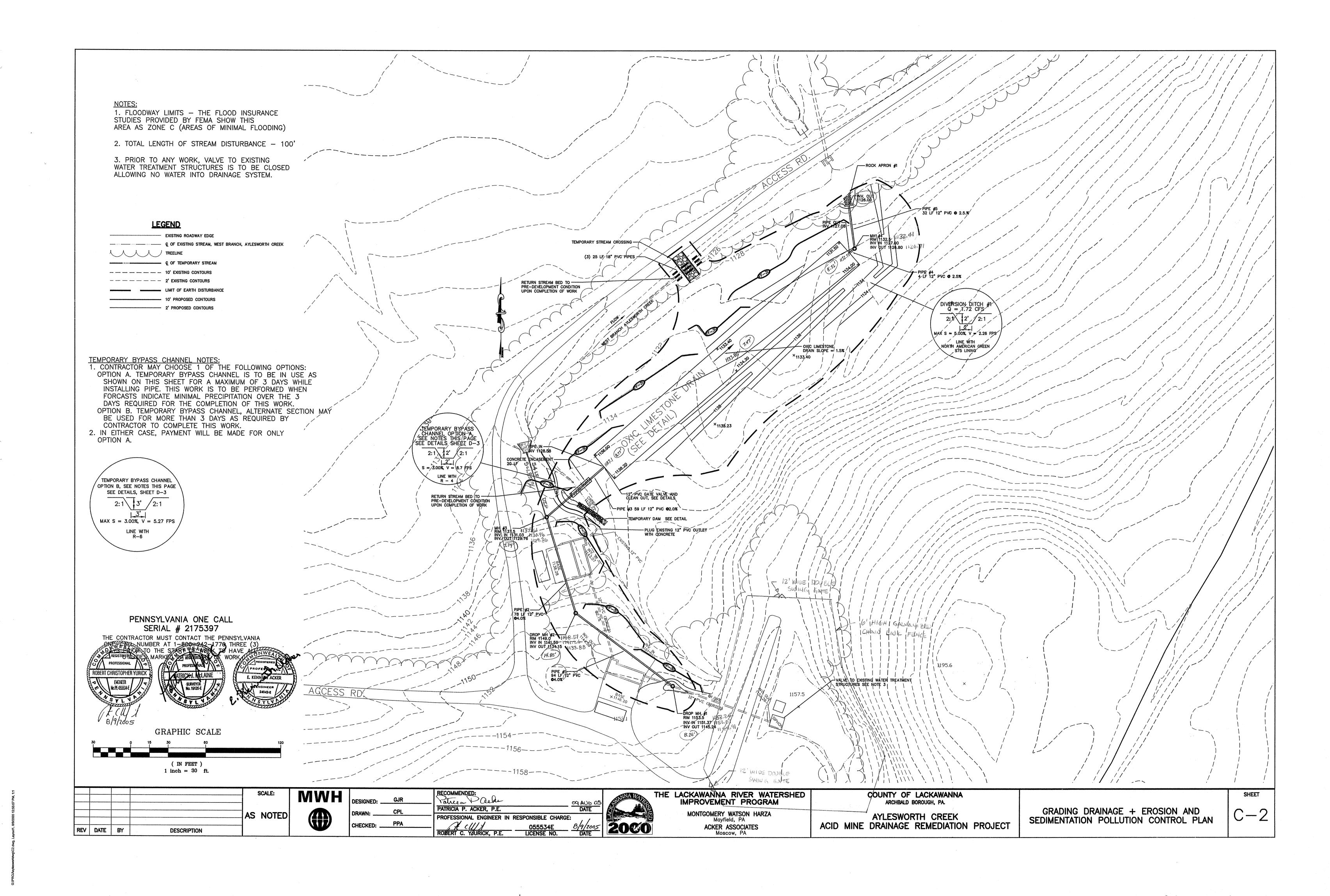
MONTGOMERY WATSON HARZA ACKER ASSOCIATES
Mayfield, PA Moscow, PA

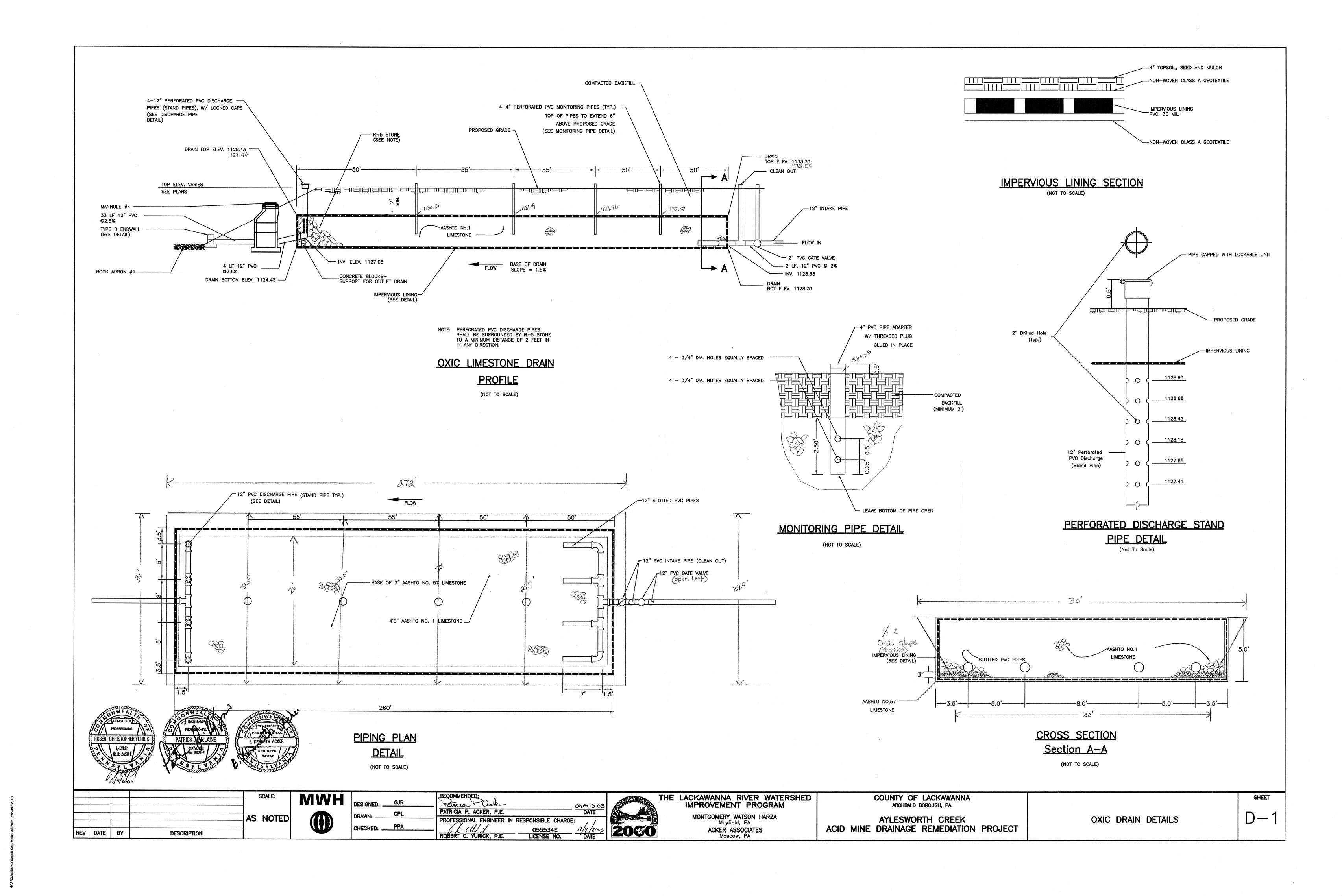
DRAWINGS FOR THE CONSTRUCTION OF

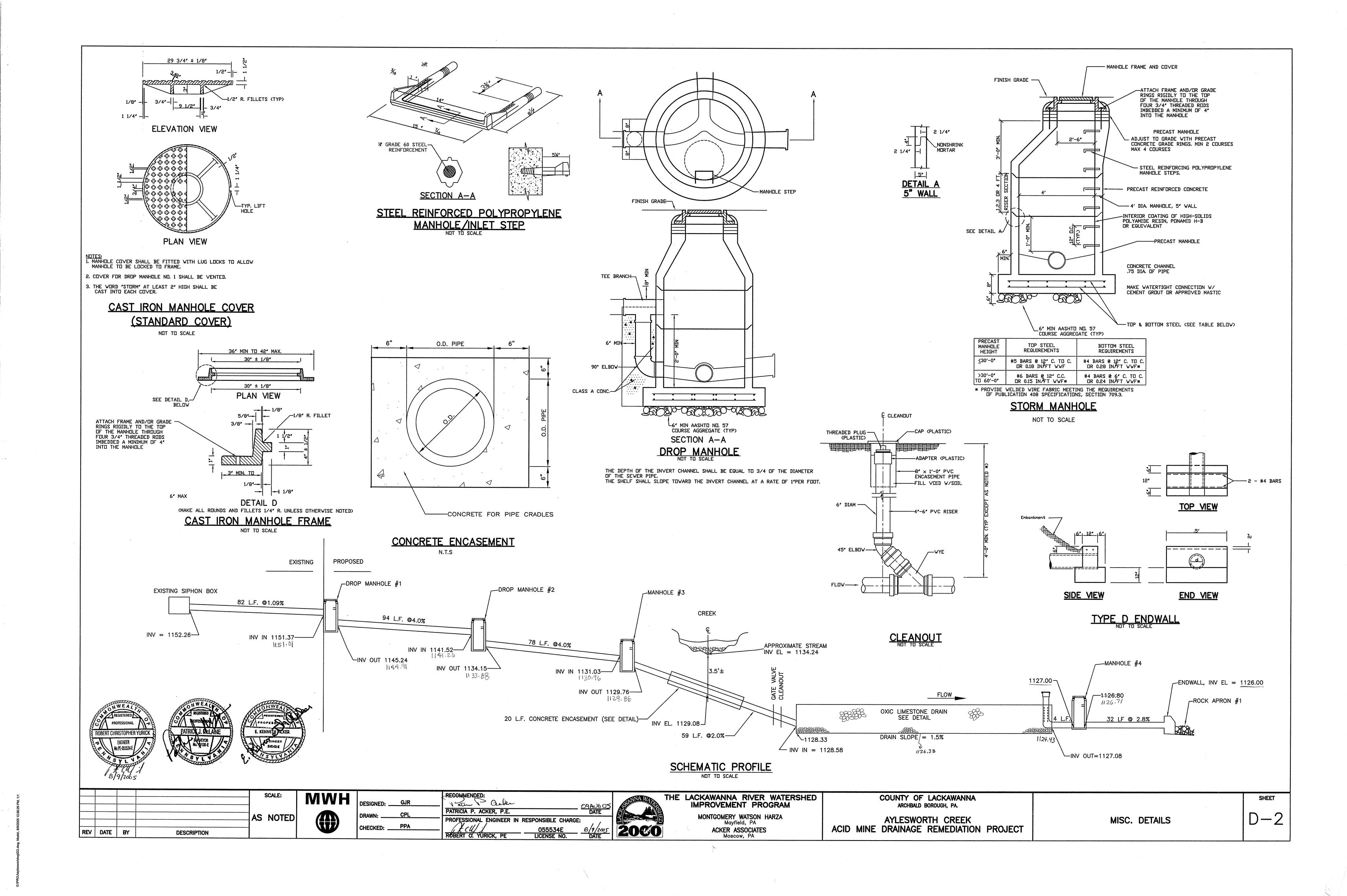
## AYLESWORTH CREEK ACID MINE DRAINAGE REMEDIATION PROJECT

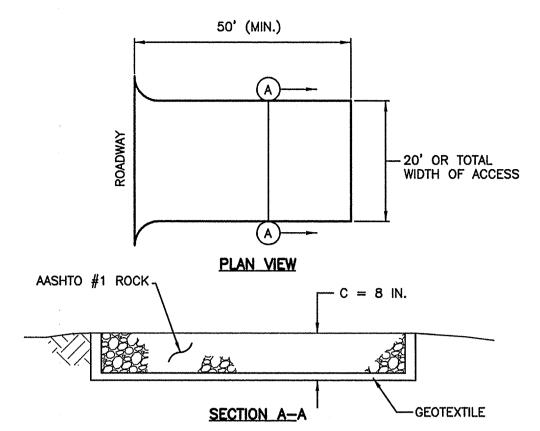
AUGUST 2005





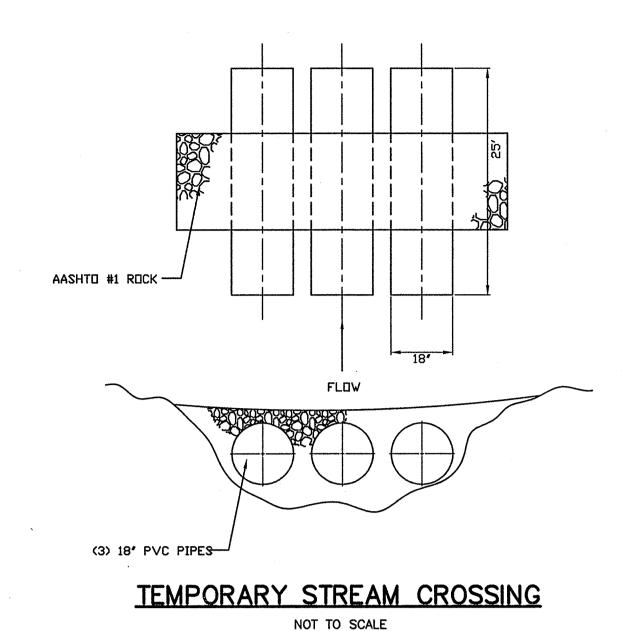


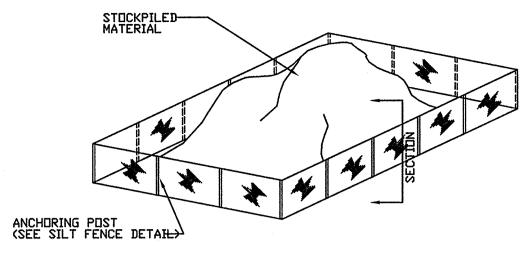


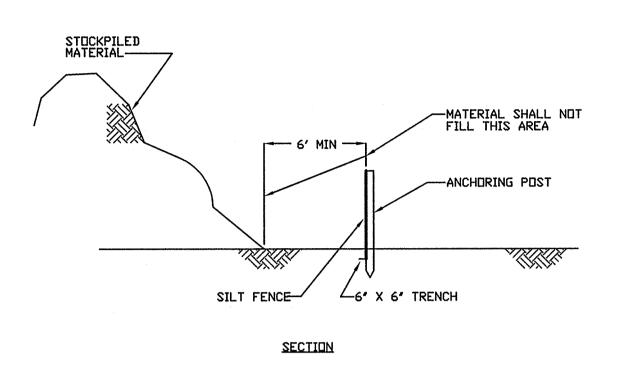


MAINTENANCE: Rock Construction Entrance thickness shall be constantly maintained to the specified dimensions by adding rock. A stockpile shall be maintained on site for this purpose. At the end of each construction day, all sediment deposited on paved roadways shall be removed and returned to the construction site.

## ROCK CONSTRUCTION ENTRANCE NOT TO SCALE







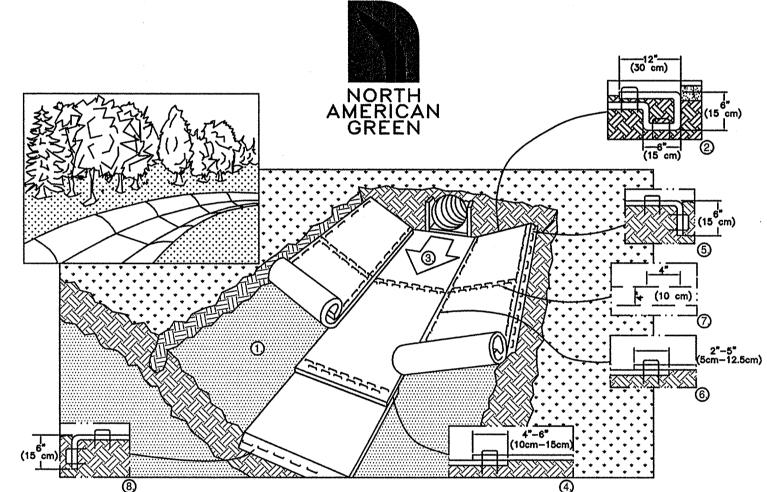
STOCKPILE CONTROL

TABLE A SEEDING TYPES AND RATES										
	% by	Minimum %		Max. %	Seeding Rate					
FORMULA and SPECIES	Weight	Purity	Germination	Weed Seed	Lbs./1000 S.F.					
Formula B					21.0 Total					
<ul> <li>Perennial Ryegrass Mix (Loliun perenne)         A combination of improved certified varieties with no one variety exceeding 50% of the total.     </li> </ul>	20	98	90	0.15	4.0					
Creeping Red Fescue or Chewings Fescue.	30	98	85	0.15	6.0					
<ul> <li>Kentucky Bluegrass Mix (Poa pratensis)         A combination of improved certified var—lettes with no one variety exceeding 25% of the total.     </li> </ul>	50	98	80	0.20	11.0					
Formula C					9.0Total					
Crownvetch (Coronilla varia)	45	99	70	0.10	4.0					
<ul> <li>Annual Ryegrass (Lolium multiflorum)</li> </ul>	55	98	90	0.15	5.0					
Formula D					21.0 Total					
<ul> <li>Tall Fescue (Festuca arundinacea var. Kentucky 31)</li> </ul>	70	98	85	0.15	15.0					
Creeping Red Fescue or Chewings Fescue.	30	98	85	0.15	6.0					
Formula E					10.0 Total					
Annual Ryegrass (Lollum multiflorum).	100	98	90	0.15	10.0					
Formula L				:	21.0 Total					
<ul> <li>Hard Fescue Mix (Festuca longifolia). A combination of improved certified var— leties with no one variety exceeding 50%</li> </ul>	60	98	85	0.15	12.5					
<ul> <li>Creeping Red Fescue. of the total.</li> </ul>	40	98	85	0.15	8.5					
Formula W					10.5 Total					
<ul> <li>Tall Fescue (Festuca arundinacea var. Kentucky 31).</li> </ul>	70	98	85	0.15	7.5					
<ul> <li>Birdsfoot Trefoil Mix (Lotus corniculatus).</li> <li>A mixture of 1/2 Viking and 1/2 of either Empire, Norcen or Leo.</li> </ul>	20	98	80	0.10	2.0					
• Redtop (Argostis alba)	10	92	80	0.15	1.0					

LIME, FERTILIZER AND MULCHING REQUIREMENTS

TEMPORARY COVER: a.) Apply agricultural grade crushed limestone at a rate of One(1) ton per acre or as required by soil test.
b.) Apply 10-10-10 fertilizer at a rate of 500 lbs. per acre
c.) Apply straw mulch as per PADOT 408 specifications at a rate of 3 tons per acre.

PERMANENT COVER: a.) Apply agricultural grade crushed limestone at a rate of Six(6) tons per acre.
b.) Apply 10-20-20 fertilizer at a rate of 1,000 lbs. per acre.
c.) Apply straw mulch as per PADOT 408 specifications at a rate of 6 tons per acre.



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL—O—SEED DO NOT SEED PREPARED AREA. CELL—O—SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

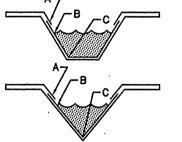
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP—SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.
 FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

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6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.

IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
 THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



CRITICAL POINTS

A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE
SLOPE VERTICES

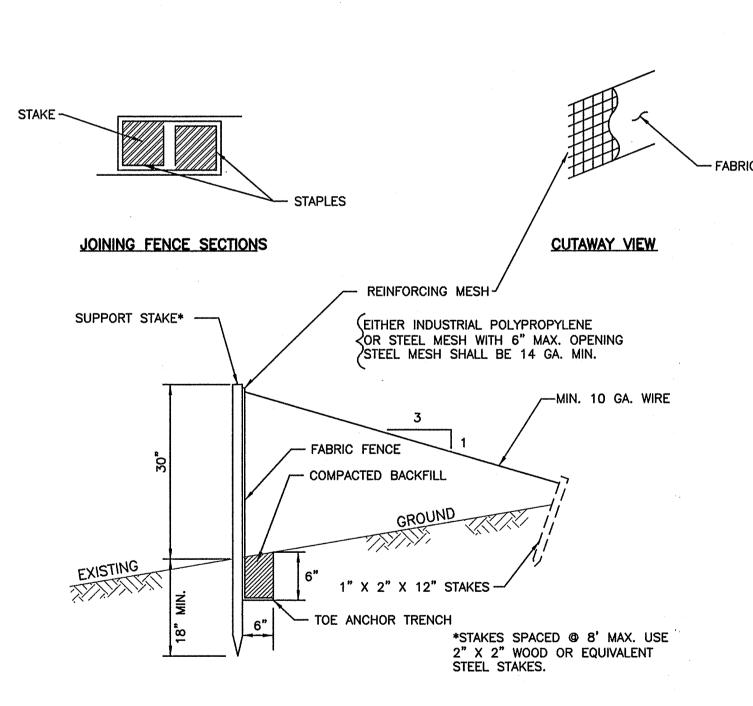
NOTE:

\* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

\*\* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725 USA 1-800-772-2040 CANADA 1-800-448-2040 www.nagreen.com

JUTE NETTING CHANNEL INSTALLATION

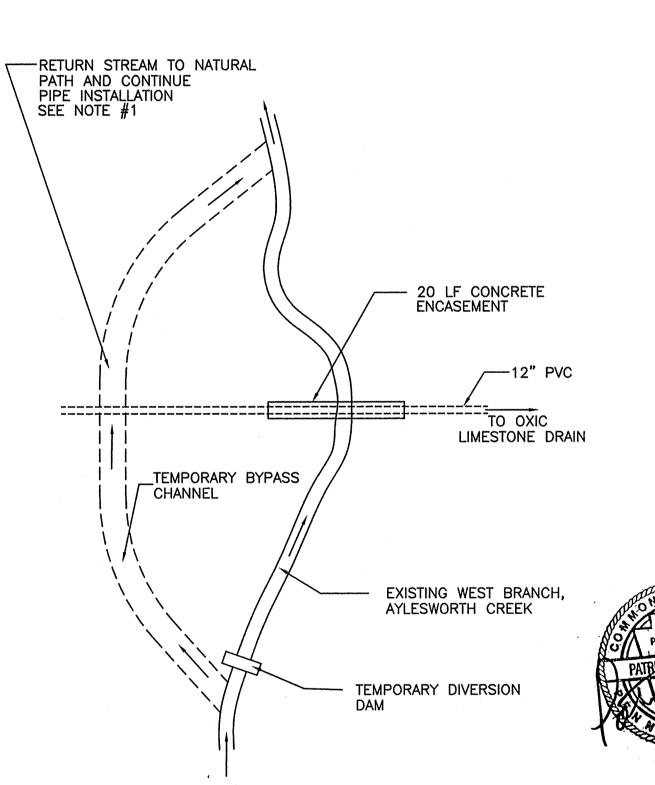


Filter Fabric Fence must be installed at existing level grade. Both ends of each fence section must be extended at least 8 feet upslope at 45 degrees to the main fence alignment.

Sediment must be removed where 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 Standard Construction Detail #18.

REINFORCED FILTER FABRIC FENCE



Aiw
Pd
Pd
Atw
PLAN VIEW

<0% SLOPE>
Rt
SECTION Y-Y

SECTION 7-7

| RIPRAP | APRON | PIPE | DIA | THICK. LENGTH | WIDTH | WIDTH | WIDTH | Atw |

TEMPORARY BYPASS CHANNEL

NOT TO SCALE

. REFER TO CONSTRUCTION SEQUENCE

REGISTERED
PROFESSIONAL
ROBERT CHRISTOPHER YURICK
E. KENNETH ACKER
NOTHER
AMORE (55534)
PROFESSIONAL
PROFESSI

RIPRAP APRONS AT PIPE OUTLETS

NOT TO SCALE

					SCALE:
				AS	NOTED
REV	DATE	BY	DESCRIPTION		



	RECOMMENDED:	, , , , , , , , , , , , , , , , , , , ,	
ESIGNED: GJR	Votria Culer		09 406 05
RAWN: CPL	PATRICIA P. ACKER, P.E.		DATE
RAWN:	PROFESSIONAL ENGINEER IN	RESPONSIBLE CHARGE:	/
HECKED: PPA	CHCUII	055534E	8/9/2005
	RØBERT C. YURICK, P.E.	LICENSE NO.	DATE



THE LACKAWANNA RIVER WATERSHED IMPROVEMENT PROGRAM

MONTGOMERY WATSON HARZA

Mayfield, PA

ACKER ASSOCIATES

ARCHBALD BOROUGH, PA.

AYLESWORTH CREEK
ACID MINE DRAINAGE REMEDIATION PROJECT

COUNTY OF LACKAWANNA

MISC. DETAILS

D-3

SHEET

-GEOTEXTILE

STANDARD EROSION AND SEDIMENT CONTROL PLAN GENERAL NOTES

1. N/A

2. N/A

3. The operator shall assure that the approved erosion and sediment control plan is properly

4. Until the site achieves final stabilization, the operator shall assure that the best management practices are implemented, operated, and maintained properly and completely. Maintenance shall include inspections of all best management practice facilities and maintain and make available to Lackawanna County Conservation District complete, written inspection logs of all those inspections. All maintenance work, including cleaning, repair, replacement, regrading, and restabilization shall be performed

5. Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to eliminate potential for accelerated erosion and/or sediment

6. Before initiating any revisions to the approved erosion and sediment control plan or revisions to other plans which may affect the effectiveness of the approved E&S control plan, the operator must receive approval of the revisions from the Lackawanna County Conservation District.

7. N/A

8. N/A

9. The contractor is advised to become thoroughly familiar with the provisions of the Appendix 64, Erosion Control Rules and Regulations, Title 25, Part 1, Department of Environmental Protection, Subpart C, Protection of Natural Resources, Article III, Water Resources, Chapter 102, Erosion Control.

10. A copy of the approved erosion and sediment control plan must be available at the project site at all times.

11. N/A

12. N/A

13. Erosion and sediment BMPs must be constructed, stabilized, and functional before site disturbance begins within the tributary areas of those BMPs. E&SPCPM P168

14. After final site stabilization has been achieved, temporary erosion and sediment BMPs controls must be removed. Areas disturbed during removal of the BMPs must be stabilized immediately. E&SPCPM P168

15. At least 7 days before starting any earth disturbance activities, the operator shall invite all contractors involved in those activities, the landowner, all appropriate municipal officials, the erosion and sediment control plan preparer, and the Lackawanna County Conservation District to an on-site meeting. Also, at least 3 days before starting any earth disturbance activities, all contractors involved in those activities shall notify the Pennsylvania One Call System Incorporated at 1-800-242-1776 for buried utilities

16. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE, EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED, CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

17. Immediately after earth disturbance activities cease, the operator shall stabilize any areas disturbed by the activities. During non-germinating periods, mulch must be applied at the specified rates. Disturbed areas which are not at finished grade and which will be redisturbed within 1 year must be stabilized in accordance with the temporary vegetative stabilization specifications. Disturbed areas which are at finished grade or which will not be redisturbed within 1 year must be stabilized in accordance with the permanent vegetative stabilization specifications.

18. An area shall be considered to have achieved final stabilization when it has a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a densitey sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding and other movements.

19. N/A

20. N/A 21. N/A

22. N/A

23. N/A

REV DATE BY

24. At stream crossings, 50' buffer areas should be maintained. In buffers, clearing, sod disturbances, excavation, and equipment traffic should be minimized. Activities such as stacking logs, burning cleared brush, discharging rainwater from trenches, welding pipe sections, refueling and maintaining equipment should be accomplished outside of buffers.

25. Hay or straw mulch must be applied at 3.0 tons per acre.

26. Mulch with mulch control netting or erosion control blankets must be installed on all

27. Straw mulch shall be applied in long strands, not chopped or finely broken.

28. The operator shall remove from the site, recycle, or dispose of all building materials and wastes in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 260.1 et seq., 271.1 et seq., and 287.1 et seq. The contractor shall not Illegally bury, dump, or discharge and building material or wastes at the site.

29. Contractor shall be responsible for removale of all BMP's

DESCRIPTION

II. Construction Procedure

A. Construction Sequence

1. Contractor shall notify, in writing, the Lackawanna County Conservation District seven (7) days prior to beginning earthmoving activities.

2. Install stabilized rock construction entrance pad at location shown on

3. Install silt fence as shown on plans, for both the Contractor Staging/Soil Stockpile Area and all other locations as indicated on plans.

4. Clear and grub work area.

5. Install temporary stream crossing.

6. Install and stabilize Diversion Ditch #1 with jute mesh netting. This work to be performed on a day when there is no precipitation and completed in

7. Beginning at Rock Apron #1, working upstream, install pipes and manhole up to Exic Drain, as indicated in the drawings.

8. Working upstream, install Exic Drain as indicated in the drawings.

9. Install temporary bypass channel, then temporary diversion dam of West Branch of Aylesworth Creek as shown on plans and detalls.

10. Temporary bypass channel is to be in use for a maximum of 3 days while installing pipe. This work is to be performed when forecasts indicate minimal precipitation over the 3 days required for completion of this

11. Install pipe from Dxic Drain to end of concrete encasement, including clean-out, and valve as shown on plans. Return the stream bed to its natural condition upon completion of this work.

12. After all disturbed areas within the existing channel are complete and stable remove temporary diversion dam and redirect stream back to existing channel.

13. Remove temporary stream section, stabilize and seed.

14. Upon completion of all work east of the West Branch of Aylesworth Creek, Remove Temporary Stream Crossing and return the stream bed to Its natural condition.

15. Working upstream, install remainder of pipes and manholes to connection with existing pipe. Only install as much pipe as can be backfilled at the end of each day.

16. Remove tumblers and spillways from existing Treatment Structures as indicated on the drawings and dispose of properly.

17. Backfill, compact, seed and stabilize Existing Structures as indicated on

18. a) Upon completion of an earth disturbance activity or any stage of phase of an activity, the site shall be immediately seeded, mulched or otherwise protected from accelerated erosion and sedimentation. b) For an earth disturbance activity or any stage of phase of an activity to be considered permanently stabilized, the disturbed areas shall be covered with an acceptable BMP, which permanently minimizes accelerated erosion and sedimentation.

19. Standard vegetative stabilization is uniform 70% perennial vegetative

20. Remove temporary erosion control measures when site is stabilized.

B. Interim Construction Regulrements

1. It shall be the Contractor's responsibility to install any and all interim measures as required to prevent erosion.

2. Any graded areas, which will remain exposed for a period of twenty (20) days or more, shall be seeded with temporary seeding and mulch.

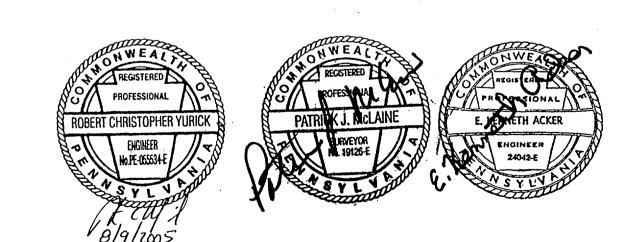
3. It shall be the Contractor's responsibility to maintain all erosion and sedimentation control devices until completion of the project and the stabilization of the graded areas.

4. The Contractor shall inspect erosion and sedimentation controls after each storm event.

C. Permanent Measures

The only permanent erosion and sedimentation control measures shall be seeding and rock apron #1,

The Contractor shall be responsible for the implementation and maintenance of all erosion and sedimentation control devices until completion of the project and stabilization of all graded areas.



RECOMMENDED: **DESIGNED:** . PATRICIA P. ACKER, P.E. CPL AS NOTED PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE: CHECKED: \_\_\_ ROBERT C. YURICK, P.E.

THE LACKAWANNA RIVER WATERSHED IMPROVEMENT PROGRAM MONTGOMERY WATSON HARZA Mayfield, PA ACKER ASSOCIATES

COUNTY OF LACKAWANNA ARCHBALD BOROUGH, PA.

AYLESWORTH CREEK ACID MINE DRAINAGE REMEDIATION PROJECT NOTES

SHEET

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B. Interim Construction Regulrements

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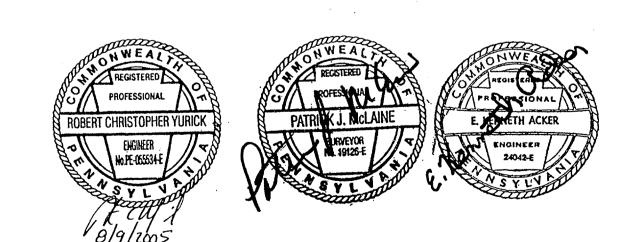
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ARCHBALD BOROUGH, PA. AYLESWORTH CREEK ACID MINE DRAINAGE REMEDIATION PROJECT

COUNTY OF LACKAWANNA

NOTES

SHEET

REV DATE BY