

ACT 287 LIST OF UTILITIES

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ACT 287 OF 1974 AS AMENDED BY ACT 187 OF 1996 FOR NOTIFICATION OF UTILITIES BEFORE EXCAVATION IN CONTRACT AREA. THE UNDERGROUND UTILITIES LOCATION CAL NUMBER IS 1-800-242-1776.

REA ENERGY COOPERATIVE INC PO BOX 70 INDIANA, PA. 157010070 CONTACT: CHRIS MASTERSON

CENTRAL MAINLINE SEWER AUTHORITY PO BOX 35

LILLY, PA. 159380035 CONTACT: OFFICE PERSONNEL

VERIZON PENNSYLVANIA INC 201 STANWIX ST 4TH FLOOR PITTSBURGH, PA, 15222 CONTACT: OFFICE PERSONNEL

FIRSTENERGY CORP 311 INDUSTRIAL PARK RD JOHNSTOWN, PA. 15904 CONTACT: MARTY KERCH

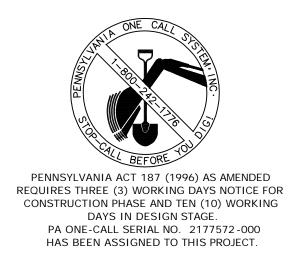
FIRSTENERGY CORP 405 W PLANK RD ALTOONA, PA. 16602 CONTACT: WAYNE HUNTER

PORTAGE TOWNSHI 416 MILLER SHAFT RD PORTAGE, PA. 15946 CONTACT: LISA FLYNN **EMAIL:** portagetownship@verizon.net

COMPANY: PORTAGE AREA SEWER AUTHORITY 606 CAMBRIA ST PORTAGE, PA. 15946 CONTACT: MIKE CIOKOTA

SHEET INDEX

<u>SHEET</u>	DESCRIPTION
1.00	COVER SHEET
2.00	EXISTING PLAN
3.00	FINAL PLAN
4.00	EROSION & SEDIMENTATION CONTROL PLAN
4.01	EROSION & SEDIMENT CONTROL DETAILS AND NOTES
5.00 - 5.01	BASELINE PROFILES
6.00	DETAILS



PORTAGE MUNICIPAL AUTH OF WTR DEPT 606 CAMBRIA STREET PORTAGE, PA. 15946 CONTACT: JOE STANCOVICH

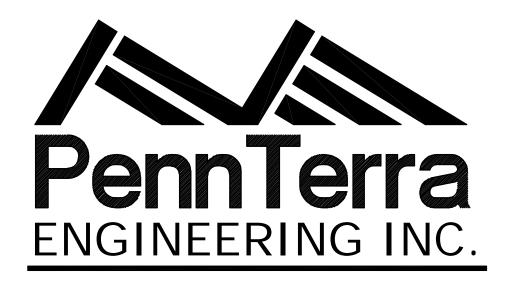
QWEST COMMUNICATIONS WY M32.12 700 W MINERAL AVE LITTLETON, CO. 80120 CONTACT: TONI TAYLOR EMAIL: toni.taylor@qwest.com

VERIZON NORTH 2201 EAST 30TH STREET ERIE, PA. 16510 **CONTACT:** MICHAEL A GEARY EMAIL: michael.geary@verizon.com

CONTACT: JANET GLACKEN

TRI TOWNSHIP WATER AUTHORITY 491 MILL RD SIDMAN, PA. 15955

PURITAN DISCHARGE PROPOSED FeAlMn BED PORTAGE TOWNSHIP CAMBRIA COUNTY, PENNSYLVANIA SPONSORED BY TROUT RUN WATERSHED ASSOCIATION CAMBRIA COUNTY CONSERVATION DISTRICT PA DEPARTMENT OF ENVIRONMENTAL PROTECTION



OCTOBER 12, 2009 LAST REVISED: MARCH 2, 2011

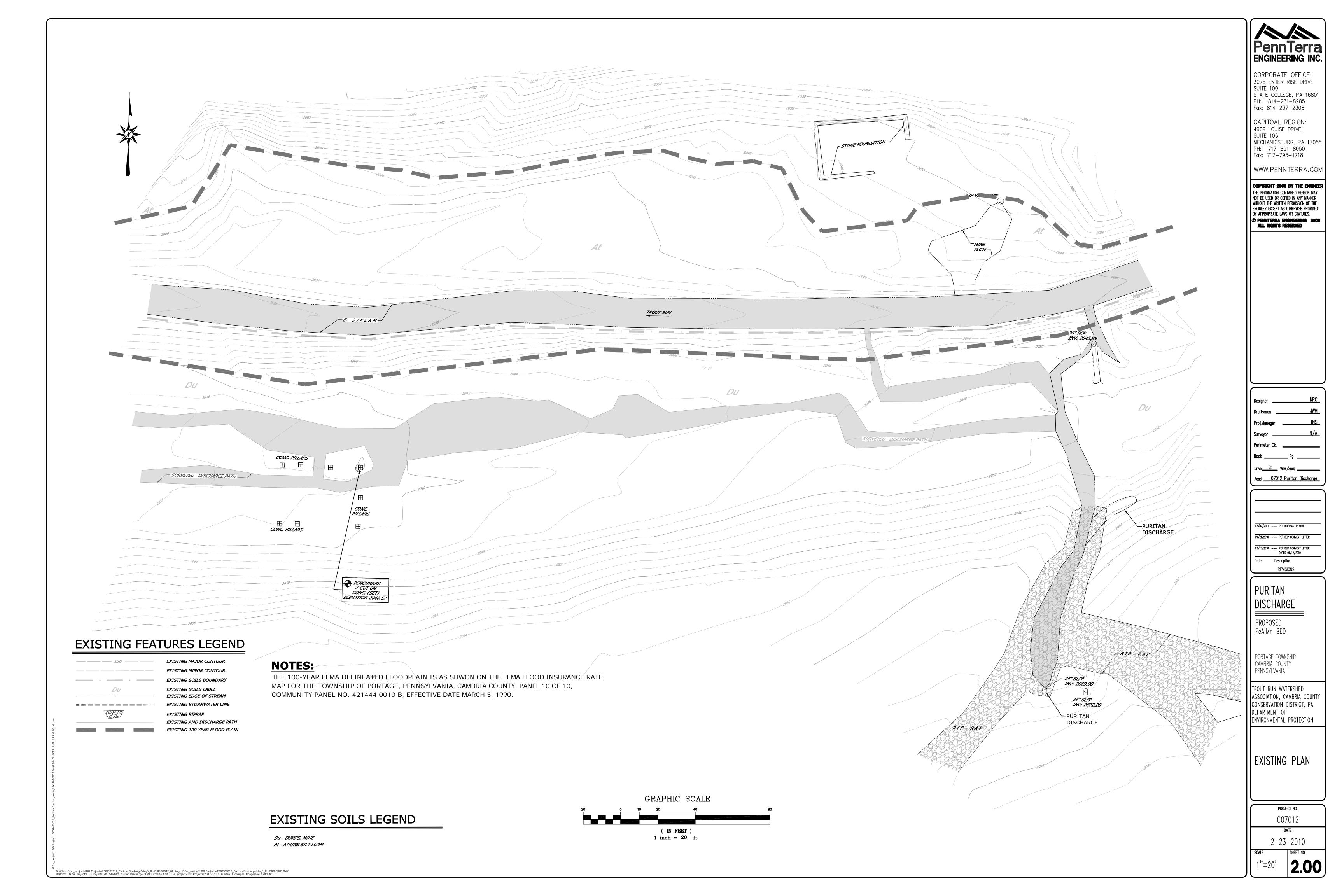


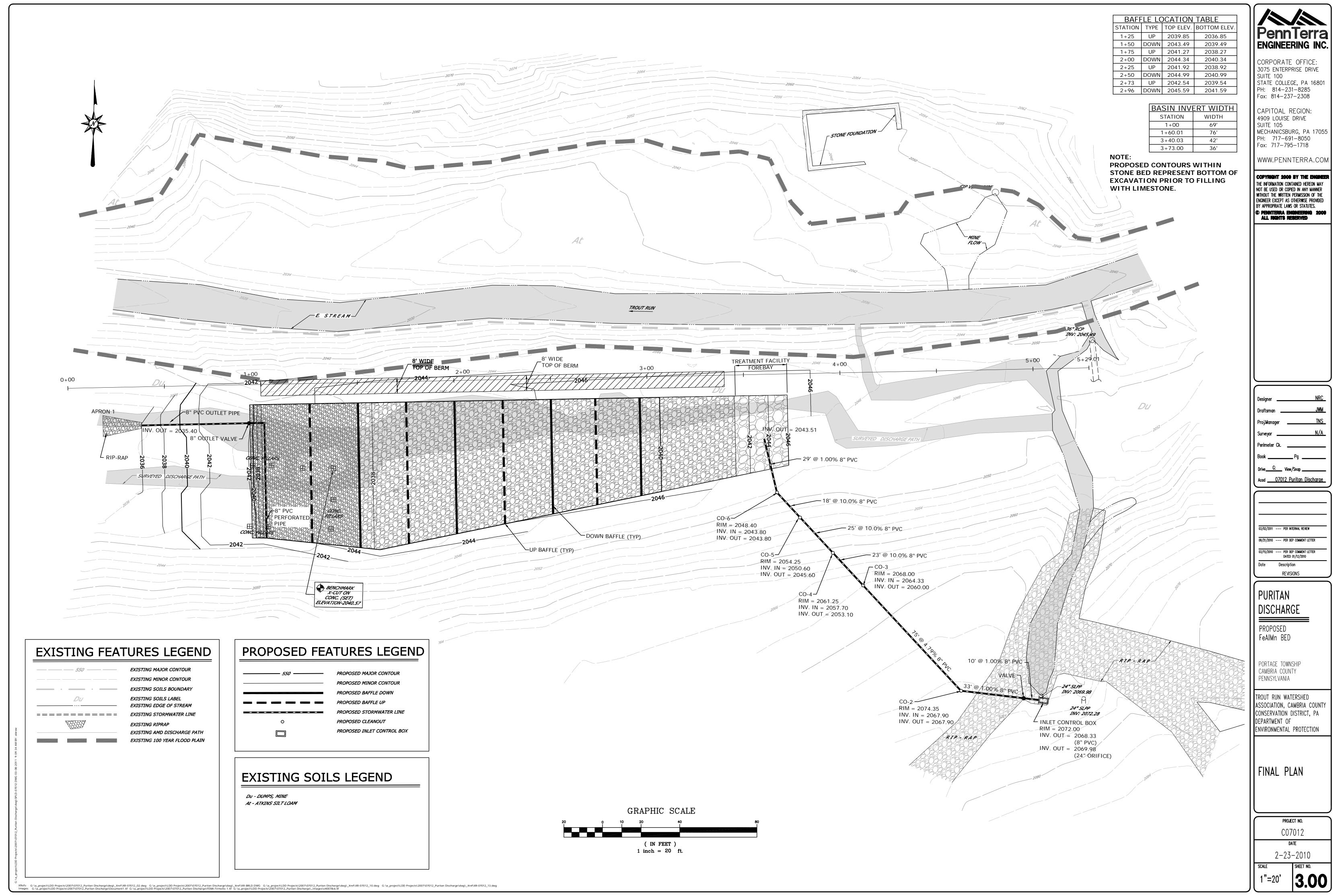
CORPORATE OFFICE: 3075 ENTERPRISE DRIVE SUITE 100 STATE COLLEGE, PA 16801 PH: 814-231-8285 Fax: 814-237-2308

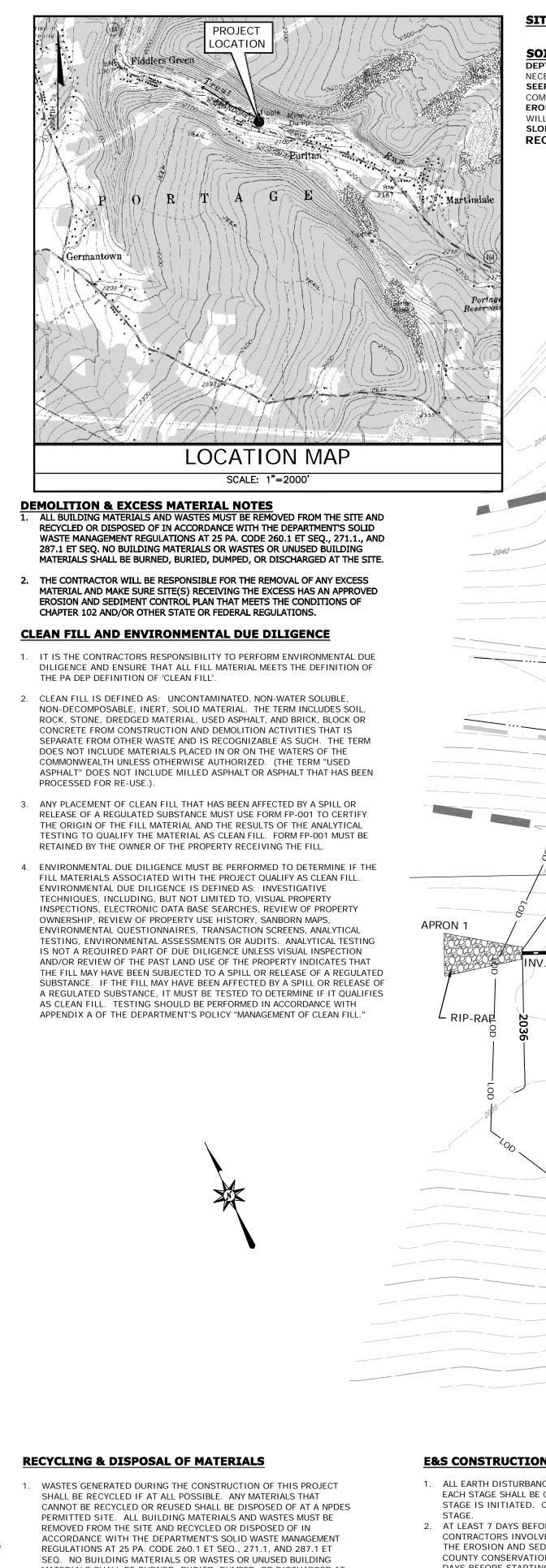
CAPITOL REGION: 4909 LOUISE DRIVE SUITE 105 MECHANICSBURG, PA 17055 PH: 717-691-8050 Fax: 717-795-1718 WWW.PENNTERRA.COI

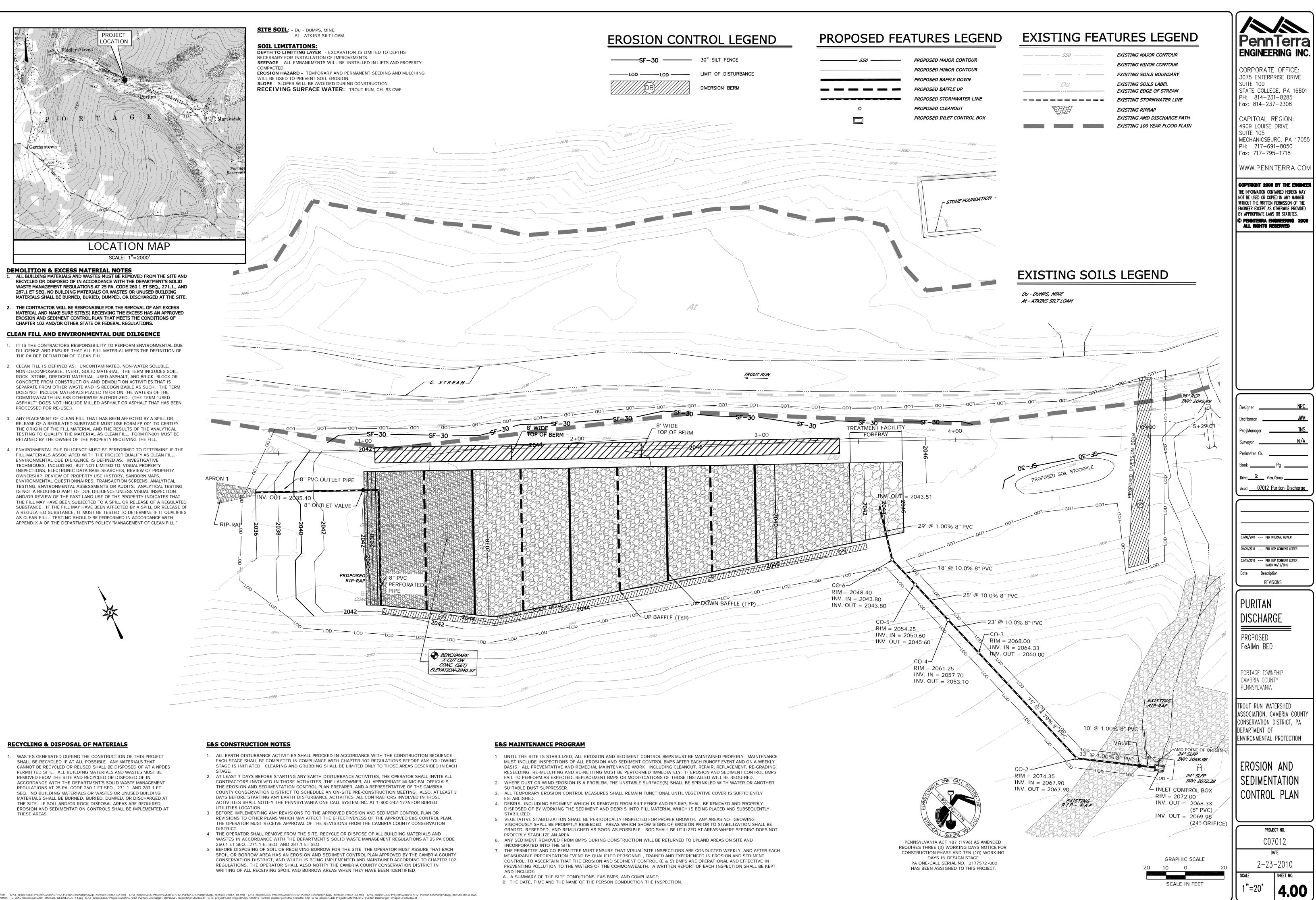
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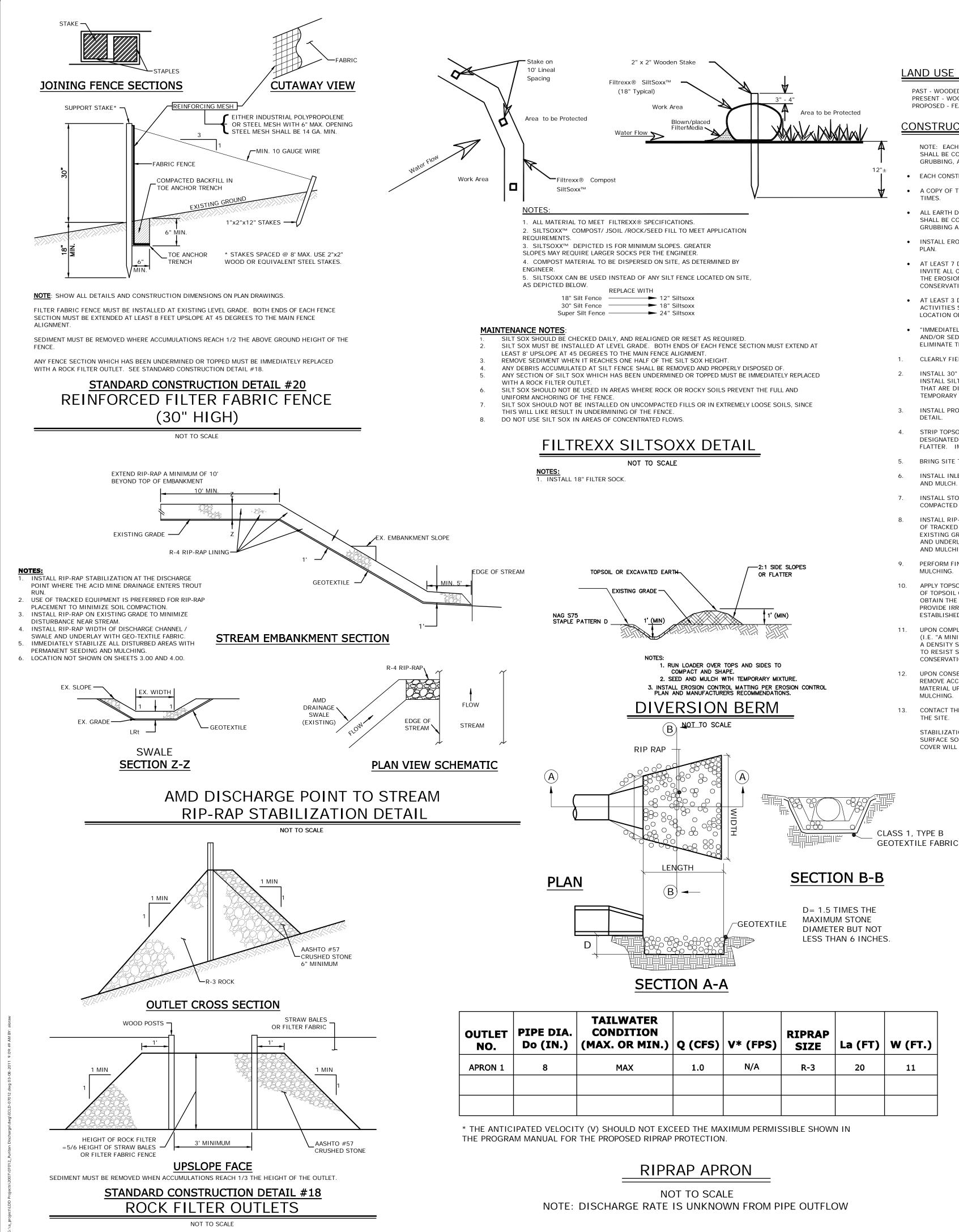








MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. IF SOIL AND/OR ROCK DISPOSAL AREAS ARE REQUIRED, EROSION AND SEDIMENTATION CONTROLS SHALL BE IMPLEMENTED AT THESE AREAS.



ILWATER NDITION (. OR MIN.)	Q (CFS)	V* (FPS)	RIPRAP SIZE	La (FT)	W (FT.)
MAX	1.0	N/A	R-3	20	11

PAST - WOODED SITE ADJACENT TO TROUT RUN. PRESENT - WOODED SITE ADJACENT TO TROUT RUN INPACTED BY AMD: PROPOSED - FEALMN BED TO TREAT AMD RUNOFF TO TROUT RUN

CONSTRUCTION SEQUENCE

NOTE: EACH CONSTRUCTION STAGE MUST BE COMPLETED PRIOR TO PROCEEDING TO THE NEXT STAGE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING, AND STRIPPING OF TOPSOIL SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

- EACH CONSTRUCTION STAGE MUST BE COMPLETED PRIOR TO PROCEEDING TO THE NEXT STAGE.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.
- INSTALL EROSION AND SEDIMENT CONTROLS PER THE CONSTRUCTION DETAILS AND LOCATIONS PROVIDED ON THE
- AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARE, AND A REPRESENTATIVE OF THE CAMBRIA COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- 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 THE LOCATION OF EXISTING UNDERGROUND UTILITIES
- "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 THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- CLEARLY FIELD MARK THE LOCATION OF THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLAN DRAWING.
- INSTALL 30" SILT FENCE AS ILLUSTRATED ON THE E&S PLANS ALONG THE PERIMETER OF THE DISTURBED AREAS. INSTALL SILT FENCE DOWNSTREAM OF ANY AREA WITH A POTENTIAL FOR STORM WATER RUNOFF. ANY SILT FENCES THAT ARE DISTURBED ARE TO BE IMMEDIATELY REINSTALLED AFTER DISTURBANCE OCCURS. IMMEDIATELY APPLY TEMPORARY SEED AND MULCH ON ALL DISTURBED AREAS.
- INSTALL PROPOSED DIVERSION BERMS IN THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE 3. DETAIL
- STRIP TOPSOIL FROM AREAS AS NECESSARY. PLACE TOPSOIL IN THE TOPSOIL STOCKPILE AT THE LOCATION DESIGNATED ON THE PLAN. STOCKPILES ARE NOT TO EXCEED 35 FEET IN HEIGHT AND SIDE SLOPES MUST BE 2:1 OR FLATTER. IMMEDIATELY STABILIZE STOCKPILE WITH TEMPORARY SEED AND MULCH.
- 5. BRING SITE TO GRADE PER PLAN. IMMEDIATELY STABILIZE DISTURBED AREAS WITH TEMPORARY SEED AND MULCH. INSTALL INLET BOX AND CONVEYANCE SYSTEM AS SHOWN ON PLAN. IMMEDIATELY STABILIZE WITH TEMPORARY SEED 6. AND MULCH
- INSTALL STONE BED AND BAFFLES PER THE PLAN. ALL EMBANKMENTS ARE TO BE INSTALLED IN MAXIMUM 12" LIFTS AND COMPACTED TO 95% DENSITY. IMMEDIATELY STABILIZE DISTURBED AREAS WITH TEMPORARY SEED AND MULCH.
- INSTALL RIP-RAP STABILIZATION AT THE DISCHARGE POINT WHERE THE ACID MINE DRAINAGE ENTERS TROUT RUN. USE OF TRACKED EQUIPMENT IS PREFERRED FOR PLACEMENT TO MINIMIZE SOIL COMPACTION. INSTALL RIP-RAP ON EXISTING GRADE TO MINIMIZE DISTURBANCE NEAR STREAM. INSTALL RIP-RAP WIDTH OF DISCHARGE CHANNEL / SWALE AND UNDERLAY WITH GEO-TEXTILE FABRIC. IMMEDIATELY STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEEDING AND MULCHING.
- PERFORM FINAL FINE GRADING OPERATIONS WHERE REQUIRED AND STABILIZE WITH PERMANENT SEEDING AND 9. MULCHING.
- 10 APPLY TOPSOIL TO ALL DISTURBED AREAS WHICH WILL WHICH WILL REQUIRE GRASS COVER. PLACE A MINIMUM OF 6" OF TOPSOIL ON ALL DISTURBED AREAS TO PROMOTE STORM WATER INFILTRATION. IMPORT TOPSOIL IF NECESSARY TO OBTAIN THE REQUIRED 6" DEPTH. PERMANENTLY STABILIZE THE SITE WITH PERMANENT SEEDING AND MULCHING. PROVIDE IRRIGATION DURING PERIODS OF DRY WEATHER UNTIL A UNIFORM PERENNIAL VEGETATIVE COVER IS ESTABLISHED.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS (I.E. "A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE FROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS"), THE OWNER AND/OR OPERATORS SHALL CONTACT THE CAMBRIA COUNTY CONSERVATION DISTRICT FOR A FINAL INSPECTION PRIOR TO THE REMOVAL OF THE SITE BMP'S.
- UPON CONSERVATION DISTRICT APPROVAL, REMOVE THE BMP'S AND IMMEDIATELY STABILIZE THE AFFECTED AREA: 12. REMOVE ACCUMULATED SEDIMENT BEHIND FILTER SOCK THEN REMOVE ALL FILTER SOCK AND PROPERLY DISPOSE OF MATERIAL UPON COMPLETION, IMMEDIATELY STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEEDING AND MULCHING
- 13. CONTACT THE CAMBRIA COUNTY CONSERVATION DISTRICT TO CONDUCT A FINAL INSPECTION PRIOR CLOSE TO OUT OF THE SITE.

STABILIZATION - UNIFORM EROSION RESISTANT PERENNIAL VEGETATION IS ESTABLISHED TO THE POINT WHERE THE SURFACE SOIL IS CAPABLE OF RESISTING EROSION DURING RUNOFF EVENTS. THE STANDARD FOR THIS VEGETATIVE COVER WILL BE A UNIFORM COVERAGE DENSITY OF 70% ACROSS THE DISTURBED AREA.

GENERAL NOTES

- 1. TOPSOIL STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SIDE SLOPES MUST BE 2:1 OR FLATTER.
- 2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES
- 3. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARE, AND A REPRESENTATIVE OF THE CAMBRIA COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- 4. 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 THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 5. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE
- 6. 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 THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- 7. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE CAMBRIA COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO THE REMOVAL OF THE BMP'S.
- 8. ALL CHANNELS MUST BE KEPT FREE OF OBSTRUCTIONS SUCH AS FILL GROUND, FALLEN LEAVES & WOODY DEBRIS, ACCUMULATED SEDIMENT, AND CONSTRUCTION MATERIALS/WASTES. CHANNELS SHOULD BE KEPT MOWED AND/OR FREE OF ALL WEEDY, BRUSHY OR WOODY GROWTH. ANY UNDERGROUND UTILITIES RUNNING ACROSS/ THROUGH THE CHANNEL(S) SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL(S) REPAIRED AND STABILIZED PER THE CHANNEL CROSS-SECTION DETAIL.
- 9. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
- 10. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE THE DISTURBED AREAS. 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 FINAL GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
- 11. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROL BMPS MUST BE MAINTAINED PROPERLY MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 12. THE PERMITTEE AND CO-PERMITTEE MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED WEEKLY AND AFTER EACH MEASURABLE PRECIPITATION EVENT BY QUALIFIED PERSONNEL, TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL. TO ASCERTAIN THAT THE EROSION AND SEDIMENT CONTROL (F&S) BMPS ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION TO THE WATERS OF THE COMMONWEALTH. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT, AND INCLUDE:

1) A SUMMARY OF THE SITE CONDITIONS. E&S BMPS. AND COMPLIANCE: AND 2) THE DATE, TIME, AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION.

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MAINTENANCE PROGRAM

- 1. UNTIL THE SITE IS FULLY STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST REMAIN AND BE MAINTAINED PROPERLY. MAINTENANCE INCLUDES THE INSPECTION OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES AFTER EACH RAINFALL EVENT, AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANING OUT, REPAIR, REPLACEMENT, REGARDING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY AFTER DISCOVERY OF A PROBLEM.
- WHERE DUST OR WIND EROSION IS A PROBLEM, THE UNSTABLE SURFACE(S) SHALL BE SPRINKLED WITH WATER OR ANOTHER SUITABLE DUST SUPPRESSER.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN FUNCTIONAL UNTIL VEGETATIVE COVER IS SUFFICIENTLY ESTABLISHED.
- DEBRIS, INCLUDING SEDIMENT WHICH IS REMOVED FROM SILT FENCE AND DIVERSION CHANNEL, SHALL BE REMOVED AND PROPERLY DISPOSED OF BY WORKING THE SEDIMENT AND DEBRIS INTO FILL MATERIAL WHICH IS BEING PLACED AND SUBSEQUENTLY STABILIZED.
- VEGETATIVE STABILIZATION SHALL BE PERIODICALLY INSPECTED FOR PROPER GROWTH. ANY AREAS NOT 5. GROWING VIGOROUSLY SHALL BE PROMPTLY RESEEDED. AREAS WHICH SHOW SIGNS OF EROSION PRIOR TO STABILIZATION SHALL BE GRADED, RESEEDED, AND REMULCHED AS SOON AS POSSIBLE. SOD SHALL BE UTILIZED AT AREAS WHERE SEEDING DOES NOT PROPERLY STABILIZE AN AREA.
- MISCELLANEOUS ADJUSTMENTS AND CORRECTIONS SHALL BE MADE TO ANY EROSION CONTROL STRUCTURE AS DEEMED NECESSARY BY THE ENGINEER, MUNICIPAL OFFICIAL, OR COUNTY REPRESENTATIVE IN ORDER TO CORRECT UNFORESEEN PROBLEMS CAUSED BY STORMS PRIOR TO STABILIZATION.

SILT FENCE

- 1. SILT FENCE SHOULD BE CHECKED DAILY, AND REALIGNED OR RESET AS REQUIRED.
- REMOVE SEDIMENT WHEN IT REACHES ONE HALF OF THE SILT FENCE HEIGHT
- ANY DEBRIS ACCUMULATED AT SILT FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF. 4. ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED
- WITH A ROCK FILTER OUTLET. SILT FENCE SHOULD NOT BE USED IN AREAS WHERE ROCK OR ROCKY SOILS PREVENT THE FULL AND UNIFORM 5. ANCHORING OF THE FENCE
- SILT FENCE SHOULD NOT BE INSTALLED ON UNCOMPLICATED FILLS OR IN EXTREMELY LOOSE SOILS, SINCE
- THIS WILL LIKE RESULT IN UNDERMINING OF THE FENCE. 7. DO NOT USE SILT FENCE IN AREAS OF CONCENTRATED FLOWS

PERMANENT CONTROLS

- 1. PERMANENT SOIL PROTECTION WILL BE COMPLETED AS EARLY AS PRACTICAL.
- 2. PERMANENT SEEDING AND MULCHING WILL BE INCORPORATED INTO THE CONSTRUCTION PHASE DURING THE APPROVED PLANTING SEASON.
- 3. ALL AREAS DISTURBED BY CONSTRUCTION, OTHER THAN THOSE RECEIVING RIP-RAP, LANDSCAPING OR PAVING (INCLUDING GRAVEL) SHALL BE STABILIZED BY APPLYING A SEED MOISTURE TO ESTABLISH AN EROSION RESISTANT STAND OF VEGETATION. APPLY SEEDING, SOIL SUPPLEMENTS AND MULCH IN ACCORDANCE WITH SECTION 804 AND 805 OF THE SPECIFICATIONS. SEED AND MULCH FINISHED SLOPES WITHIN A PERIOD OF 20 CALENDAR DAYS AFTER EXCAVATION OR EMBANKMENT OPERATIONS HAVE BEEN COMPLETED. USE FORMULA B MIXTURE FOR SLOPES ADJACENT TO LAWN AREAS. USE NATIVE SEED MIXTURE FOR ALL SLOPES STEEPER THAN 3:1. USE FORMULA D MOISTURE ON ALL SLOPES 3:1 OR FLATTER.

FORMULA B - 20% PERENNIAL RYE GRASS MIXTURE AT 4.0 LBS PER 1,000 S.Y.

30% CREEPING RED FESCUE OR CHEWINGS FESCUE AT 6.0 LBS PER 1,000 S.Y. 50% KENTUCKY BLUE GRASS MIXTURE AT 11.0 LBS PER 1,000 S.Y.

NO FORMULA C IS TO BE USED ON THIS PROJECT. USE NATIVE SEED MIXTURE IN-LIEU OF.

FORMULA D - 70% TALL FESCUE AT 15 0 LBS PER 1 000 S Y 30% CREEPING RED FESCUE OR CHEWINGS FESCUE AT 6.0 LBS PER 1,000 S.Y.

SOILS SUPPLEMENTS

PULVERIZED AGRICULTURAL LIMESTONE - 800 LBS PER 1,000 S.Y.

10-20-20 ANALYSIS COMMERCIAL FERTILIZER AT 140 LBS PER S.Y.

38-0-0 UNIFORM FERTILIZER AT 50 LBS PER 1,000 S.Y

32-0-0 TO 38-0-0 SULFUR COATED AREA FERTILIZER AT 59 TO 50 LBS PER 1,000 S.Y.

31-0-0 IBDU FERTILIZER AT 61 LBS PER 1,000 S.Y.

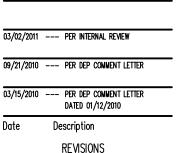
MULCHING HAY OR STRAW AT 1200 LBS PER 1,000 S.Y.

- 4. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE "EROSION AND SEDIMENTATION CONTROL HANDBOOK" AND THE CAMBRIA COUNTY CONSERVATION DISTRICT, WHERE APPLICABLE.
- 5. STABILIZATION- UNIFORM EROSION RESISTANT PERENNIAL VEGETATION IS ESTABLISHED TO THE POINT WHERE THE SURFACE SOIL IS CAPABLE OF RESISTING EROSION DURING RUNOFF EVENTS. THE STANDARD FOR THIS VEGETATIVE COVER WILL BE A UNIFORM COVERAGE DENSITY OF 70% ACROSS THE DISTURBED AREA. ANY EXCAVATED SOIL MATERIAL REMOVED FROM THE SITE SHALL ONLY BE PLACED IN AN AREA THAT HAS AN APPROVED EROSION CONTROL PLAN

EMPORARY CONTROLS

- 1. DURING CONSTRUCTION, THE CONTRACTOR SHALL KEEP THE SITE WELL DRAINED AT ALL TIMES. ANY WASTE MATERIAL ACCUMULATED DURING CONSTRUCTION, WHICH WILL NOT BE REUSED IN LATER CONSTRUCTION. SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A RESPONSIBLE AND LEGAL MANNER 3. ALL UNSTABILIZED SOIL STOCKPILED TEMPORARILY SHALL BE COVERED WITH A TARP OR OTHER SUITABLE STABILIZATION (SEEDED) IN ORDER TO PREVENT WASHOFF WHEN PRECIPITATION IS IMMINENT. 4. TEMPORARY SEEDING SHALL BE APPLIED TO THOSE AREAS THAT ARE A POTENTIAL EROSION PROBLEM DURING CONSTRUCTION AND TO THOSE AREAS EXPOSED FOR LONGER THAT 20 CALENDAR DAYS. IF CONDITIONS DO NOT PERMIT TEMPORARY SEEDING, MULCHING SHALL BE EMPLOYED. FORMULA E - 100% ANNUAL RYE GRASS AT 10.0 LBS PER 1,000 S.Y MULCHING HAY OR STRAW AT 1200 LBS PER 1,000 S.Y. 5. SILT BARRIER FENCE SHALL BE PLACED AT CRITICAL EROSION AREAS, AS SHOWN ON THE PLAN, IN ORDER TO PREVENT SEDIMENT FROM ENTERING ONTO PUBLIC ROADWAYS, ADJACENT PROPERTIES AND WATERWAYS. 6. WHERE DUST OR WIND EROSION IS A PROBLEM, THE UNSTABLE SURFACE(S) SHALL BE SPRINKLED WITH WATER OR OTHER SUITABLE DUST SUPPRESSER. 7. THE CONTRACTOR SHALL EMPLOY MEASURES DURING CONSTRUCTION TO PREVENT SPILLS OF FUELS OR LUBRICANTS. IF A SPILL OCCURS, IT SHALL BE CONTROLLED IMMEDIATELY TO PREVENT ITS ENTRY INTO NEARBY WATERWAYS. 8. ALL EARTHMOVING ACTIVITIES SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE THE AMOUNT OF DISTURBED AREA 9. RESPONSIBILITY FOR IMPLEMENTING EROSION AND SEDIMENTATION CONTROL SHALL BE DESIGNATED TO A MINIMUM OF ONE INDIVIDUAL WHO WILL BE PRESENT AT THE PROJECT SITE DAILY. 0. WHEN THE ENGINEER, MUNICIPAL OFFICIAL, OR COUNTY REPRESENTATIVE DETERMINES THAT EROSION CONTROL MEASURES ARE NECESSARY, THAT WERE NOT FORESEEN IN THE DESIGN STAGE, SAID OFFICIAL SHALL ESTIMATE THE EROSION POTENTIAL AND SELECT MEASURES ON THE BASIS OF BOTH COST EFFECTIVENESS AND THE CONSEQUENCES OF THE EROSION 11. ANY TEMPORARY EROSION CONTROL MEASURE APPLIED TO EXPOSED SOIL SURFACES SHALL REMAIN FUNCTIONAL UNTIL VEGETATION COVER IS SUFFICIENTLY ESTABLISHED.
- . ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE SUBJECT TO APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION FORM 408 SPECIFICATIONS, MOST RECENT EDITION.

CORPORATE OFFICE: 3075 ENTERPRISE DRIVE SUITE 100 STATE COLLEGE, PA 1680 PH: 814-231-8285 Fax: 814-237-2308 CAPITOAL REGION: 4909 LOUISE DRIVE SUITE 105 MECHANICSBURG, PA 17055 PH: 717-691-8050 Fax: 717-795-1718 WWW.PENNTERRA.COM Copyright 2009 by the engine E INFORMATION CONTAINED HEREON MAY NOT BE USED OR COPIED IN ANY MANNER without the written permission of the Engineer except as otherwise provided BY APPROPRIATE LAWS OR STATUTES. © PENNITERRA ENGINEERING 200 All Rights reserved)raftsman o i.Manaae urvevor Perimeter C ive_____ View/Snap ______ 07<u>012 Puritan Discharae</u> 03/02/2011 --- PER INTERNAL REVIEW



PURITAN ISCHARG

PROPOSED FeAIMn BED

PORTAGE TOWNSHIP CAMBRIA COUNTY PENNSYLVANIA

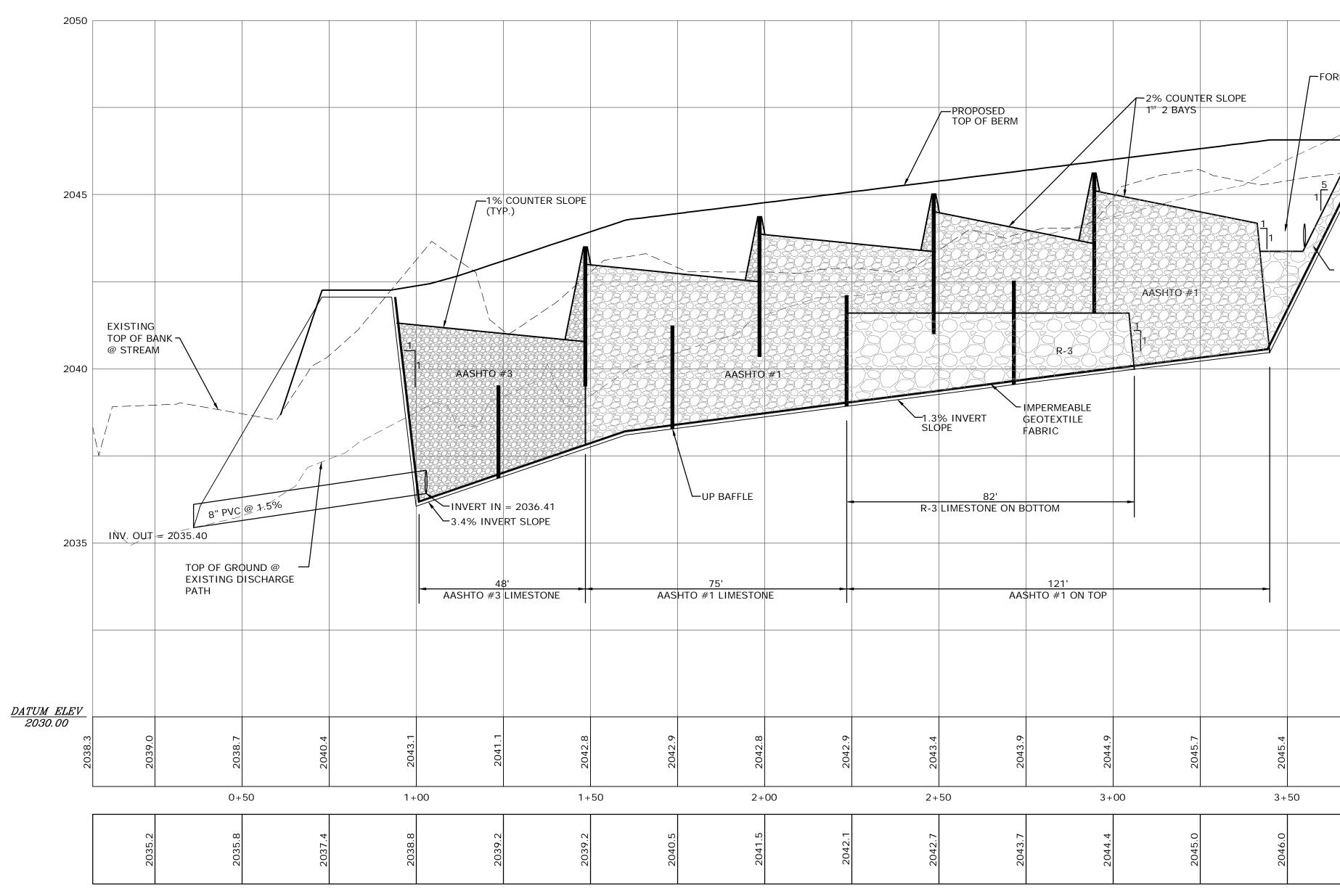
ROUT RUN WATERSHED SSOCIATION, CAMBRIA COUNT CONSERVATION DISTRICT, PA DEPARTMENT OF INVIRONMENTAL PROTECTION

EROSION AND SEDIMENTATION CONTROL DETAILS AND NOTES

> PROJECT NO. C07012

2-23-2010





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<u>SCALE:</u> HORIZ: 1" = 20' VERT: 1" = 2'

		PennTerra
		ENGINEERING INC. CORPORATE OFFICE: 3075 ENTERPRISE DRIVE SUITE 100
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REBAY		
1' OF R-3		
		Designer <u>NRC</u> Draftsman <u>JWM</u>
		Proj.Manager <u>TNS</u> Surveyor <u>N/A</u> Perimeter Ck
		Book Pg DriveG: View/Snap Acad07012 Puritan Discharge
		03/02/2011 PER INTERNAL REVIEW 09/21/2010 PER DEP COMMENT LETTER 03/15/2010 PER DEP COMMENT LETTER DATED 01/12/2010
		Date Description REVISIONS
		PURITAN DISCHARGE PROPOSED
2045.7		FeAIMn BED PORTAGE TOWNSHIP
2047.6		CAMBRIA COUNTY PENNSYLVANIA TROUT RUN WATERSHED
7		ASSOCIATION, CAMBRIA COUNTY CONSERVATION DISTRICT, PA DEPARTMENT OF ENVIRONMENTAL PROTECTION
		PROFILES
		PROJECT NO.
	GRAPHIC SCALE	C07012 date 2-23-2010
	(IN FEET) 1 inch = 20 ft.	SCALE SHEET NO. 5.00

