

## **MOUNT JOY TOWNSHIP**

LANCASTER COUNTY, PENNSYLVANIA

## Application for Consideration of a Subdivision and/or Land Development Plan

For Mount Joy Township Use Only:

M.J.T.P.C. File No.:	25-13-MLDP	Date of Receipt/Filing:	August 1, 2025
School District:	Donegal	X Elizabethtown	

The undersigned hereby applies for approval under Chapter 119, Subdivision and Land Development, of the Code of the Township of Mount Joy for the Plan submitted herewith and described below:

### Plan & Project Information

Plan Name: ADAM BRANDT AG OPERATION									
Plan No.:		<u> </u>	Plan Date: 12-18-2024						
Location:	7573	B ELIZAB	ETHTOWN RO	OAI	ELIZAB	ETHTC	WN, P	A 17022	
Property Ow	ner:	ADAM I	BRANDT						
Owner Addr	ess:	7573 ELIZ	ZABETHTOW	N R	OAD ELIZ	ZABET	HTOW:	N, PA 17022	
Telephone N		717-405-							
E-mail:									
Deed Referer	ice:	6770530			Tax Parce	No.:	460863	1500000	
Plan Type:			Sketch		X	Prelin	ninary	X	Final
			Lot Line Chan	ige		Minor	Agricu	ltural or Land	Development
Description:	The (68')	proposal i x420'), mai	is to construct a nure storage (60	a nev 0'x88	w poultry o 3'). eaa roo	peration (65'x6	n inclusi 35'), grav	ive of two poul vel drivewav. a	try barns ravel &
			, and associate						
Zoning Distri	ict:	AGRICU	ULTURAL						
Is a zoning change necessary? N/A If yes, please specify: N/A									
Is/was a zoni	ng va	riance, sp	ecial exception,	or c	conditional	ין	N/A	If yes, attach	ZHB decision.
use approval							. 4/ 2 \$		
Total Acreage	e:	88.95 acr	es Disturbar	ice -	7.88 acres	3			
Name of app	licant	(if other t	han owner):	SA	AME AS C	WNER			
Address:									
Telephone N	0.:								
E-mail:									
	repai		NYE CONSU						
	Address: 330 WEST ROUTE 897 REINHOLDS, PA 17569								
Phone No.: 717-380-6745									
1	nsible		BERT NYE						
E-mail:		BNYE@1	NCSINCORP.C	COM	1				

**Proposed Lots and Units** 

	# of Lots	# of Units			# of Lots	# of Units
Total #			Mixec.	Use		
Agricultural			Single Famil	v Detached		
Commercial			Multifamily (a	ttached-sale)		
Industrial			Multifamily (att	ached-rental)		
Institutional			Other:			
Total Square Feet of Ground Floor Area (building footprint):				67,237	<u> </u>	<del>- L</del>
Total Square Feet of Existing						
Total Square Feet of Propo	67,237					
Total Square Feet (or Acres						
Linear feet of new street:	N/A					
Identify all street(s) not pro	oposed for de	edication:	N/A			······································

Type of water supply proposed:

Public (Live)	Community
Public (Capped)	Individual

Type of sanitary sewage disposal proposed:

Public (Live)	Community	
Public (Capped)	Individual	

The undersigned hereby represents that, to the best of his knowledge and belief, all information listed above is true, correct and complete.

Signature of Landowner of Applicant

7/21/2025

PENNSYLVANIA OUADRANGLE- ELIZABETHTOWN

573 ELIZABETHTOWN ROAD **ELIZABETHTOWN PA 17022** PHONE: 717-405-1528 **MAILING ADDRESS** 

**DEVELOPER** 

SITE ADDRESS

ADAM BRANDT

ADAM BRANDT

7733 ELIZABETHTOWN ROAD ELIZABETHTOWN PA 17022 PHONE: 717-405-1528

SOURCE OF TITLE

DEED: 6770530 ACCOUNT #460-2311863-311915-0-0000 LOT AREA: 88.95 AC

NO NEW LOTS ARE CREATED WITH THIS PLAN

### **EXISTING FEATURES:**

SITE FEATURES ARE SHOWN PER AN ONSITE SURVEY ON 2/11/2025

BENCHMARK 1: BASE: ELEV. 446.487' BENCHMARK 2: TOP OF REBAR: ELEV. 444.269 BENCHMARK 3: TOP OF REBAR: ELEV. 434.282' BENCHMARK 4: TOP OF REBAR: ELEV. 424.433'

330 W PA-897

REINHOLDS, PA 17569

FLOODPLAIN INFORMATION PER FLOOD MAP #42071C0117F, DATED: 4-5-2016

VORTEX ENVIRONMENTAL, INC. HAS COMPLETED AN ONSITE WETLANDS EVALUATION AND THE WETLANDS IDENTIFIED OUTSIDE THE PROJECT AREA HAVE BEEN SHOWN ON THE PLANS.

**PROPOSED FEATURES:** DESIGN PROVIDED BY: NYE CONSULTING SERVICES, INC

EXISTING USE: AGRICULTURAL PROPOSED USE: AGRICULTURAL

THE PROPOSAL IS TO CONSTRUCT A NEW POULTRY OPERATION INCLUSIVE OF TWO POULTRY BARNS (68'X420'), MANURE STORAGE (60'X88'), EGG ROOM (65' X 65'), GRAVEL DRIVEWAY, GRAVEL PADS, AND ASSOCIATED STORMWATER MANAGEMENT CONTROLS.

PROPOSED IMPERVIOUS COVERAGE: THE PROPOSED IMPERVIOUS COVERAGE IS 157,115 S.F. THE TOTAL IMPERVIOUS COVERAGE IS 157,115 S.F

THE INCREASE IN RUNOFF IS MITIGATED WITH THE INSTALLATION OF INFILTRATION BASIN 1.THE FACILITIES HAVE BEEN DESIGN IN ACCORDANCE WITH THE GOVERNING ORDINANCE AND THE PA DEP

ADDITIONAL DESIGN INFORMATION CAN BE LOCATED WITHIN THE STORMWATER MANAGEMENT REPORT PREPARED BY: NYE CONSULTING SERVICES, INC.

## SITING INFORMATION

BULK SITING DATA	REQUIRED	PROPOSEI
ZONING DISTRICT	AGRICULTURAL	AGRICULTURA
MINIMUM LOT AREA	25 ACRES	88.95 ACRES
MAXIMUM LOT AREA	N/A	N/A
MINIMUM LOT WIDTH	100 FEET	894 FEET
MINIMUM LOT DEPTH	150 FEET	1,038 FEET
FRONT YARD SETBACK	50 FEET	673 FEET
SIDE YARD SETBACK	20 FEET	75 FEET
REAR YARD SETBACK	50 FEET	391 FEET
MANURE STORAGE SETBACK	200 FEET	270 FEET
MAX LOT COVERAGE	25%	4.86%
MAX BUILDING COVERAGE	20%	1.82%
MAX BUILDING HEIGHT	N/A	N/A
WATER SERVICE	ON-LOT PRIVATE	

SEWER SERVICE ON-LOT PRIVATE (NONE PROPOSED) \* NO EMPLOYEES WILL BE UTILIZED AS PART OF THE PROPOSED USE

UNITS OF OCCUPANCY:

THE OPERATION WILL NOT HAVE ANY EMPLOYEES OTHER THAN THE OWNER/OPERATOR 2. THE OPERATION WILL GENERATE AN AVERAGE OF 1 TRUCK PER DAY,

. AGRICULTURAL NUISANCE DISCLAIMER. ALL LANDS WITHIN THE AGRICULTURAL ZONE ARE LOCATED WITHIN AN AREA WHERE LAND IS USED FOR COMMERCIAL AGRICULTURAL PRODUCTION, OWNERS, RESIDENTS AND OTHER USERS OF THIS PROPERTY MAY BE SUBJECTED TO INCONVENIENCE. DISCOMFORT AND THE POSSIBILITY OF INJURY TO PROPERTY AND HEALTH ARISING FROM NORMAL AND ACCEPTED AGRICULTURAL PRACTICES AND OPERATIONS, INCLUDING, BUT NOT LIMITED TO, NOISE, ODORS, DUST, THE OPERATION OF MACHINERY OF ANY KIND, INCLUDING AIRCRAFT, THE STORAGE AND DISPOSAL OF MANURE, THE APPLICATION OF FERTILIZERS, SOIL AMENDMENTS, HERBICIDES AND PESTICIDES. OWNERS, OCCUPANTS AND USERS OF THIS PROPERTY SHOULD BE PREPARED TO ACCEPT SUCH INCONVENIENCES. DISCOMFORT AND POSSIBILITY OF INJURY FROM NORMAL AGRICULTURAL OPERATIONS, AND ARE HEREBY PUT ON OFFICIAL NOTICE THAT SECTION 4 OF THE PENNSYLVANIA ACT 133 OF 1982, THE "RIGHT TO FARM LAW," MAY BAR THEM FROM OBTAINING A LEGAL JUDGMENT AGAINST SUCH NORMAL AGRICULTURAL OPERATIONS. 4. THE DESIGN AND CONSTRUCTION OF THE MANURE STORAGE FACILITY SHALL BE IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S PUBLICATION MANURE MANAGEMENT MANUAL FOR ENVIRONMENTAL PROTECTION, AND ANY REVISIONS, SUPPLEMENTS, AND REPLACEMENTS THEREOF, PUBLISHED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

## CLEAN AND GREEN PROGRAM NOTICE

NOTICE: ACCORDING TO COUNTY RECORDS, THE SUBJECT PROPERTY IS SUBJECT TO THE PENNSYLVANIA FARMLAND AND FOREST LAND ASSESSMENT ACT OF 1974, (A.K.A. THE CLEAN AND GREEN ACT), ACT 319 OF 1974, P.L. 973; 72 P.S. 5490.1, AS AMENDED AND AS FURTHER AMENDED BY ACT 156 OF 1998, AS AMENDED, THESE ACTS PROVIDE FOR PREFERENTIAL PROPERTY TAX ASSESSMENT AND TREATMENT. IT IS THE PROPERTY OWNER'S RESPONSIBILITY TO BE AWARE OF THE LAWS, RULES AND REGULATIONS APPLICABLE TO HIS OR HER PROPERTY, INCLUDING THE PROVISION THAT: (A) PREFERENTIAL PROPERTY TAX ASSESSMENT AND TREATMENT WILL REMAIN IN EFFECT CONTINUOUSLY UNTIL THE LAND OWNER CHANGES THE AGRICULTURAL USE FROM THE APPROVED CATEGORY, OR IF A TRANSFER, SPLIT-OFF OR SEPARATION OF THE SUBJECT LAND OCCURS: (B) IF A CHANGE IN USE OCCURS, OR IF A CONVEYANCE, TRANSFER SEPARATION, SPLIT-OFF OR SUBDIVISION OF THE SUBJECT LAND OCCURS, THE PROPERTY OWNER WILL BE RESPONSIBLE FOR NOTIFYING THE COUNTY ASSESSOR WITHIN 30-DAYS; (C) THE PAYMENT OF ROLL-BACK TAX, PLUS INTEREST, FOR THE PERIOD OF ENROLLMENT, OR A PERIOD NOT TO EXCEED 7-YEARS, WHICHEVER IS LESS, MAY BE REQUIRED; (D) IF THE PROPERTY OWNER FAILS TO NOTIFY THE COUNTY ASSESSOR WITHIN THE 30-DAY PERIOD. PRIOR TO THE LAND CONVEYANCE, THE PROPERTY OWNER MAY BE SUBJECT TO A \$100.00 CIVIL PENALTY; (E) IF THE PROPERTY OWNER FAILS TO PAY THE ROLL-BACK TAX, A MUNICIPAL LIEN COULD BE PLACED ON THE PROPERTY UNDER EXISTING DELINQUENT

# PRELIMINARY/FINAL LAND DEVELOPMENT PLAN ADAM BRANDT AG OPERATION

MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

### **TOWNSHIP NOTES:**

- 1. NO OUTDOOR LIGHTING SHALL BE DIRECTLY VISIBLE FROM ADJOINING PROPERTIES
- 2. NO NEW LOTS ARE CREATED WITH THIS PLAN AND NO KNOWN EASEMENTS EXIST WITH THE PROPERTY
- 3. THE APPROVED SITE PLAN SHALL BE ON-SITE THROUGHOUT THE ENTIRE PROJECT. 4. A MINIMUM 18 INCHES OF COVER TO THE SURFACE SHALL BE PROVIDED OVER PIPES

IMPROVEMENTS AND PRIOR TO THE RELEASE OF THE ESCROW ACCOUNT

- 5. AS-BUILT PLANS SHALL BE PROVIDED TO THE TOWNSHIP FOR REVIEW AND APPROVAL UPON COMPLETION OF THE
- 6. THE LANDOWNER SHALL KEEP ON FILE WITH THE TOWNSHIP THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PERSON OR COMPANY RESPONSIBLE FOR MAINTENANCE ACTIVITIES; IN THE EVENT OF A CHANGE, NEW INFORMATION SHALL BE SUBMITTED TO THE TOWNSHIP WITHIN 10 DAYS OF THE CHANGE
- 7. THE LANDOWNERS ARE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER FACILITIES.
- 8. NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE OR ALTER STORMWATER MANAGEMENT FACILITIES AND/ OR BMP FACILITIES WHICH MAY HAVE BEEN INSTALLED ON A PROPERTY UNLESS A STORMWATER MANAGEMENT PERMIT HAS BEEN OBTAINED TO PERMIT SUCH MODIFICATION, REMOVAL, FILLING, LANDSCAPING OR ALTERATION, NO PERSON SHALL PLACE ANY STRUCTURE FILL LANDSCAPING OR VEGETATION INTO A STORMWATER MANAGEMENT FACILITY A RMP
- 9. REQUIRED INSPECTIONS SHALL BE SCHEDULED THROUGH THE TOWNSHIP A MINIMUM OF 48 HOURS PRIOR TO THE TIME THE INSPECTION IS REQUESTED
- 10. THE DESIGN ENGINEER IS TO BE CONTACTED PRIOR TO THE INSTALLATION OF THE INFILTRATION BASIN TO REVIEW THE SITE PREPARATION AND PERFORM STORMWATER PERCOLATION TESTING TO ENSURE THE CONSTRUCTED INFILTRATION FACILITY WILL FUNCTION AS DESIGNED
- 11. MATERIALS AND CONSTRUCTION STANDARDS FOR STREETS, CURBS AND GUTTERS, AND SIDEWALKS, SHALL CONFORM TO REGULATIONS AND STANDARDS OF THE TOWNSHIP. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF TRAFFIC CONTROLS, SIGNS, AND PAVEMENT MARKINGS. ALL STREET SIGNS SHALL BE PROVIDED AS PER PENNDOT REQUIREMENTS AND SHALL INCLUDE REGULATION SIZE LETTERING.
- 12. PROVISIONS OF STORM SEWERAGE INLETS, CATCH BASINS AND MANHOLES SHALL MEET THE REQUIREMENTS OF THE TOWNSHIP AS REGARDS TO BOTH DESIGN AND LOCATION.

13. NOTHING IS BEING PROPOSED TO BE DEDICATED TO THE TOWNSHIP

- 14. ALL PROPOSED IMPROVEMENTS SHALL MEET MOUNT JOY TOWNSHIP REQUIREMENTS OR PENNDOT 408 STANDARDS
- 15. ALL SIGNAGE FOR THE PROPOSED OPERATION SHALL CONFORM TO THE REQUIREMENTS OF MOUNT JOY TOWNSHIP ZONING ORDINANCE SECTION 460-83 AND DESIGNS SHALL BE APPROVED PRIOR TO PLACEMENT THROUGH THE ISSUANCE

16. NO KNOWN EASEMENTS EXIST ON THE PROPERTY

- 17. AN NPDES PERMIT APPLICATION HAS BEEN SUBMITTED TO THE LANCASTER COUNTY CONSERVATION DISTRICT
- 18. PRIOR TO MODIFYING THE DRIVEWAY, A PERMIT MUST BE OBTAINED FROM MOUNT JOY TOWNSHIP
- 19. EXCAVATION, THE PLACING OF FILL OR STRUCTURES, AND ANY ALTERATIONS THAT MAY ADVERSELY AFFECT THE FLOW OF STORMWATER WITHIN ANY PORTION OF THE EASEMENT IS PROHIBITED. NATURAL CONDITIONS, INCLUDING VEGETATED COVER SHALL BE PRESERVED. IF POSSIBLE. IF APPROPRIATE MAINTENANCE, INCLUDING MOW OF VEGETATION WITHIN THE EASEMENT, MAY BE REQUIRED
- 20. ALL LANDS WITHIN THE EFFECTIVE AGRICULTURAL PRESERVATION DISTRICT ARE LOCATED WITHIN AN AREA WHERE LAND IS USED FOR COMMERCIAL AGRICULTURAL PRODUCTION OWNERS, RESIDENTS, AND OTHER USERS OF ANY PORTION OF THIS PROPERTY MAY BE SUBJECTED TO INCONVENIENCE, DISCOMFORT, AND THE POSSIBILITY OF INJURY TO PROPERTY AND HEALTH ARISING FROM NORMAL AND ACCEPTED AGRICULTURAL PRACTICES AND OPERATIONS INCLUDING BUT NOT LIMITED TO NOISE, ODORS, DUST, THE OPERATION OF MACHINERY OF ANY KIND INCLUDING AIRCRAFT. THE STORAGE AND DISPOSAL OF MANURE. THE APPLICATION OF FERTILIZERS. SOIL AMENDMENTS. HERBICIDES AND PESTICIDES OWNERS. OCCUPANTS, AND USERS OF ANY PORTION OF THIS PROPERTY SHOULD BE PREPARED TO ACCEPT THESE CONDITIONS (SUCH INCONVENIENCES. DISCOMFORT. AND POSSIBILITY OF INJURY FROM NORMAL AGRICULTURAL RIGHT TO FARM LAW MAY BAR THEM FROM OBTAINING A LEGAL JUDGEMENT AGAINST SUCH NORMAL AGRICULTURAL
- 21. THE PROPOSED DUSK TO DAWN LIGHTING SHALL CONFORM TO THE REQUIREMENTS OF TOWNSHIP ZONING ORDINANCE FOR NIGHTTIME USE AND SHALL HAVE A FULL CUT-OFF LENSE TO .
- 22. FOLLOWING THE APPROVAL OF THE AS-BUILT PLAN BY THE TOWNSHIP ENGINEER, THE ENGINEER SHALL SUBMIT THE SWM SITE PLAN FOR RECORDATION IN THE OFFICE OF THE RECORDER OF DEEDS.

## RECORD PLANS/IMPROVEMENT GUARANTEES:

LIPON COMPLETION OF ALL REQUIRED IMPROVEMENTS. AND PRIOR TO FINAL INSPECTIONS OF IMPROVEMENTS. THE DEVELOPER SHALL SUBMIT A PLAN LABELED "AS-BUILT PLAN." SHOWING THE ACTUAL LOCATION, DIMENSION AND ELEVATION OF ALL EXISTING IMPROVEMENTS. IN ADDITION, THE PLAN SHALL DEMONSTRATE THAT THE EXISTING GRADING, DRAINAGE STRUCTURES AND/OR DRAINAGE SYSTEMS AND EROSION AND SEDIMENT CONTROL PRACTICES. INCLUDING VEGETATIVE MEASURES. ARE IN SUBSTANTIAL CONFORMANCE WITH THE PREVIOUSLY APPROVED DRAWINGS AND SPECIFICATIONS. THE PLAN SHALL SPECIFICALLY IDENTIFY ALL DEVIATIONS FROM THE PREVIOUSLY APPROVED. DRAWINGS. THE APPLICANT'S ENGINEER SHALL CERTIFY THAT THE CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY WAS COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AS ORIGINALLY SUBMITTED AND APPROVED BY THE TOWNSHIP.

## DRAWING INDEX

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\* DRAWINGS TO BE RECORDED

PROPOSED PRO	JECT SCHEDULE
BULK EXCAVATION & SWM CONTROLS	30-45 DAYS
BUILDING CONSTRUCTION	DAY 45-165
POPULATE POULTRY BARNS	DAY 165-175
FINALIZE ALL SITE WORK AND STABILIZATION	DAY 165 - 210
AC DIHIT / NOT	DAY 210 265

## ONE - CALL SYSTEM



Pennsylvania Act 121 (2008) requires 3 working days notice rom excavators who are about to Dig, Blast, Auger, Bore, Grade, rench or Demolish anywhere in the Commonwealth. ontractor Shall Place A One-Call (1-800-242-1776) Prior to

### **EASEMENT NOTES**:

- NOTHING SHALL BE PLACED, PLANTED, SET OR PUT WITHIN THE AREA OF AN EASEMENT THAT WOULD ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT OR CONFLICT WITH THE EASEMENT AGREEMENT.
- MUNICIPAL AND COUNTY OFFICIALS AND THEIR AGENTS OR EMPLOYEES SHALL HAVE ACCESS TO ANY AND ALL DRAINAGE EASEMENTS AND/OR DRAINAGE FACILITIES AND SHALL HAVE THE RIGHT AT THEIR DISCRETION TO MAINTAIN OR REPAIR THE FACILITIES AS NECESSARY TO RESTORE THEM TO THE DESIGN CONDITIONS
- . WHERE ANY ELECTRIC OR TELEPHONE TRANSMISSION OR PETROLEUM PRODUCT TRANSMISSION LINE TRAVERSES A PROPERTY, THE MINIMUM DISTANCE REQUIRED BETWEEN EACH STRUCTURE AND THE CENTER LINE OF SUCH TRANSMISSION LINE WILL BE IN ACCORDANCE WITH THE APPLICABLE UTILITY. RIGHTS OF ACCESS, MAINTENANCE, AND ANY ADDITIONAL CONDITIONS FROM THE UTILITY COMPANY MUST BE INCLUDED WITH THE RIGHT-OF-WAY AGREEMENT
- 4. A MINIMUM TWENTY-FOOT WIDE ACCESS EASEMENT AROUND ALL STORMWATER MANAGEMENT FACILITIES THAT WOULD PROVIDE INGRESS FROM AND EGRESS TO A PUBLIC RIGHT-OF-WAY. EASEMENTS SHALL BE PROVIDED TO ALLOW FOR THE COLLECTION AND DISCHARGE OF WATER, THE INSPECTION, MAINTENANCE, REPAIR AND RECONSTRUCTION OF THE DRAINAGE FACILITIES, AND THE PASSAGE OF MACHINERY FOR WORK.
- 5. PROVISIONS FOR PERMANENT ACCESS OR MAINTENANCE EASEMENTS FOR ALL EXISTING AND PROPOSED PHYSICAL STORMWATER MANAGEMENT FACILITIES, SUCH AS PONDS AND INFILTRATION STRUCTURES, AS NECESSARY TO IMPLEMENT THE OPERATION AND MAINTENANCE (O&M) PLAN. ALL SUCH AGREEMENTS SHALL BE DULY RECORDED IN THE OFFICE OF THE RECORDER DEEDS AND SHALL CONSTITUTE A BINDING PERMANENT COVENANT UPON THE PROPERTY, SUPERIOR TO ALL LIENS OF RECORD AND NOT SUBORDINATE TO ANY EASEMENT OR RESTRICTION THAT WOULD INTERFERE WITH ITS PROVISIONS AND

### **CONTRACTOR NOTES:**

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRENCH BARRICADING, COVERING, SHEETING AND SHORING, IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS
- 2. UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION, EXCAVATION OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE NOT BEEN FIELD VERIFIED. NYE CONSULTING SERVICES, INC. DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE UNDERGROUND UTILITY INFORMATION REFLECTED ON THESE DRAWINGS IS CORRECT AND ACCURATE. NYE CONSULTING SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE INCURRED AS A RESULT OF UNDERGROUND UTILITIES OMITTED OR INACCURATELY
- 3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE DONE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 4. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL UNDERGROUND AND ABOVE GROUND STRUCTURES, FEATURES, AND MATERIALS AS REQUIRED FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THIS PLAN.
- 5. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS.
- 6. THE CONTRACTOR SHALL COORDINATE ANY AND ALL UTILITY SERVICE EXTENSIONS/TERMINATIONS WITH THE UTILITY
- 7. THE CONTRACTOR IS RESPONSIBLE FOR ALL FIELD TESTING AND "RECORD DRAWINGS" AS REQUIRED BY THE VARIOUS
- 8. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITIES AT LEAST 10 DAYS PRIOR TO THE COMMENCEMENT OF
- CONSTRUCTION AND A MINIMUM OF 72 HOURS PRIOR TO THE START OF IMPROVEMENTS REQUIRING PROFESSIONAL OVERSITE.
- 9. THE CONTRACTOR SHALL CALL PA ONE-CALL PRIOR TO BEGINNING CONSTRUCTION.
- 10. IF SINKHOLES ARE ENCOUNTERED DURING CONSTRUCTION, THE SERVICES OF A REGISTERED GEOLOGIST SHALL BE OBTAINED TO ASSIST IN RECOMMENDING CONSTRUCTION TECHNIQUES AND PERMANENT FACILITIES NECESSARY TO AVOID FURTHER SINKHOLE CREATION AND WITH REGARD TO THE REPAIR OF ANY EXISTING SINKHOLES.

### **SCHEDULE OF INSPECTIONS**

- 1. THE DEVELOPER SHALL PROVIDE THE TOWNSHIP AT LEAST TWENTY-FOUR (24) HOURS NOTICE PRIOR TO THE START OF CONSTRUCTION OF ANY IMPROVEMENTS THAT ARE SUBJECT TO OBSERVATION
- 2. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE COST OF ALL OBSERVATIONS.
- 3. THE TOWNSHIP SHALL OBSERVE ALL PHASES OF THE INSTALLATION OF ANY TEMPORARY OR PERMANENT STORM WATER MANAGEMENT FACILITIES DURING CONSTRUCTION.
- GENERAL SITE CONSTRUCTION

  A. UPON COMPLETION OF PRELIMINARY SITE PREPARATION INCLUDING STRIPPING OF VEGETATION, STOCKPILING OF TOPSOIL AND CONSTRUCTION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES. B. UPON COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACING TOPSOIL, PERMANENT DRAINAGE, OR OTHER SITE DEVELOPMENT
- C. DURING THE CONSTRUCTION OF PERMANENT STORM WATER MANAGEMENT AND BMP FACILITIES MORE SPECIFICALLY LISTED BELOW.
- CONSTRUCTION OF THE PROPOSED INFILTRATION BASIN BERM AND OUTLET CONTROL STRUCTURE SUBGRADE PREPARATION FOR SOIL AMENDMENT PLACEMENT
- POST CONSTRUCTION INFILTRATION TEST SOIL AMENDMENT PLACEMENT
- PERMANENT SITE STABILIZATION INCLUDING SWALE-1 & SWALE-2 D. UPON THE FINAL COMPLETION OF PERMANENT STORM WATER MANAGEMENT AND BMP FACILITIES, INCLUDING THE ESTABLISHMENT OF
- E. AFTER REVIEW OF THE AS-BUILT DRAWINGS, REQUIRED BY ARTICLE 6, BUT PRIOR TO FINAL RELEASE OF THE FINANCIAL SECURITY FOR
- OMPLETION OF FINAL GRADING, VEGETATIVE CONTROLS REQUIRED BY THE BMP STANDARDS, OR OTHER SITE RESTORATION WORK.
- F. IN ADDITION TO THE ABOVE OUTLINED OBSERVATIONS, ADDITIONAL OBSERVATIONS WILL BE MADE AT THE REQUEST OF THE DEVELOPER FOR REDUCTION OF FINANCIAL SECURITIES. RANDOM OBSERVATIONS SHOULD BE MADE AT THE FREQUENCY DESIRED BY THE TOWNSHIP. AT THE TIME OF ANY OF THE ABOVE LISTED OBSERVATIONS, ALL ONGOING CONSTRUCTION (I.E. STORM DRAINAGE, SANITARY SEWER, WATER, EROSION CONTROL, ETC.) SHOULD ALSO BE CHECKED FOR COMPLIANCE WITH THE APPROVED PLANS AND THE FINDINGS REPORTED. SINCE THE ABOVE OBSERVATIONS ARE MANDATORY, IT IS RECOMMENDED THAT REQUESTS FOR REDUCTION OF FINANCIAL SECURITY BE SUBMITTED TO COINCIDE WITH THE ABOVE OBSERVATIONS

## **SANITARY SEWER NOTES:**

- N/A NO SEPTIC IS PROPOSED WITH THIS PROJECT
- **WATER SERVICE NOTES:**
- 2. WATER LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE TOWNSHIP REQUIREMENTS.
- 3. A MINIMUM OF 4' COVER IS REQUIRED OVER ALL WATER LINES.
- 4. WELLS SHALL BE LOCATED UPHILL FROM NEARBY SEWAGE DISPOSAL FACLITIES
- 5. WELLS SHALL NOT BE CLOSER THAN ONE HUNDRED FEET (100') FROM ANY SEWAGE DISPOSAL FACILITY NOR LESS THAN FIFTY FEET (50-) FROM LAKES, STREAMS. PONDS, PROPERTY LINES. QUARRY HOLES. ETC.
- 6. WELLS SHALL BE CASED TO BEDROCK AND SET TIGHTLY AT LEAST SIX FEET (6\*) INTO SOLID ROCK, SO AS TO PROVIDE A COMPLETE SEAL FROM SURFACE WATER FROM HIGHER STRATA THAT MIGHT RUN DOWN ALONG THE PIPE. IF A TIGHT SEAL CANNOT BE ACHIEVED BY DRIVING THE PIPE AND ROTATING AND FORCING THE CASING AND ITS SHOES INTO THE ROCK. THEN INTERNAL CEMENT GROUTING SHALL BE USED AND ALLOWED TO SET UP BEFORE FURTHER DRILLING IS DONE BELOW THE CASING CASING USED SHALL BE NEW AND SHALL HAVE TIGHT THREADED OR TIGHTLY WELDED JOINTS.
- 7. HERE SHALL BE A MINIMUM OF TWENTY FEET (20\*) OF CASING BELOW THE FINAL OR FINISHED GRADE
- 8. SUCH WELLS SHALL HAVE A PRODUCTION CAPACITY OF AT LEAST FIVE (5) GALLONS PER MINUTE OF SAFE, POTABLE

## **EXISTING PLANS AND AGREEMENTS:**

- 2. DOCUMENT #2015-0321-J LOT-LINE CHANGE PLAN
- I, ROBERT J. RUTH, CERTIFY THAT THIS LIST IS COMPLETE AND CORRECT.

MOUNT JOY TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT

SECTION 119-52.J(3)(a), 119-53.B(2), 119-53.C - REQUIREMENT TO IMPROVE THE FRONTAGE ALONG

### CERTIFICATION OF OWNERSHIP, ACKNOWLEDGMENT OF PLAN AND OFFER OF **DEDICATION**

COMMONWEALTH OF PENNSYLVANIA COUNTY OF LANCASTER

MY COMMISSION EXPIRES

**CERTIFICATION** 

STORMWATER MANAGEMENT

, BEFORE ME, THE UNDERSIGNED ON THIS, THE OFFICER. PERSONALLY APPEARED ADAM & ALISA BRANDT, WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT THEY ARE THE OWNERS AND/OR EQUITABLE OWNERS AND/OR DEVELOPERS OF THE PROPERTY SHOWN ON THIS PLAN, THAT THEY ACKNOWLEDGE THE SAME TO BE THEIR ACT AND PLAN, AND DESIRE THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

NOTARY LAND OWNER - ADAM BRAND

LAND OWNER - ALISA BRANDT

### LAND OWNER STORMWATER MANAGEMENT ACKNOWLEDGEMENT

I. HEREBY ACKNOWLEDGE THAT. THE PROPOSED STORMWATER MANAGEMENT SYSTEM TO BE A PERMANENT FIXTURE THAT CAN ONLY BE ALTERED OR REMOVED, AFTER APPROVAL OF A REVISED PLAN BY THE MUNICIPALITY.

LAND OWNER - ADAM BRANDT

### PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE ENGINEERING DETAILS SHOWN AND DESCRIBED HEREON ARE TRUE AND CORRECT AND ARE DESIGNED IN CONFORMANCE WITH THE MOUNT JOY TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND IN ACCORDANCE WITH THE LAWS OD THE COMMONWEALTH OF PENNSYLVANIA.

MOUNT JOY TOWNSHIP SWM SITE PLAN APPROVAL

, 20 , THE MOUNT JOY TOWNSHIP PLANNING COMMISSION APPROVED THIS PROJECT, AND ALL CONDITIONS HAVE BEEN MET. THIS APPROVAL INCLUDES THE COMPLETE SET OF PLANS AND INFORMATION WHICH ARE FILED WITH THE TOWNSHIP IN MOUNT JOY TOWNSHIP PLANNING COMMISSION FILE NO. UPON ITS CONFORMITY WITH THE STANDARDS OF CHAPTER 113,

CHAIRMAN VICE CHAIRMAN

## CERTIFICATE OF ACCURACY (TOPOGRAPHY)

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY CHAPTER 119, SUBDIVISION AND LAND DEVELOPMENT, , 20 .

**ENGINEER** 

## CARBONATE GEOLOGY CERTIFICATE

, CERTIFY THAT THE PROPOSED STORMWATER/BMP FACILITY (CIRCLE ONE) IS/IS NOT UNDERLAIN BY CARBONATE GEOLOGY.

**ENGINEER** 

## CERTIFICATE OF ACCURACY (DEED PLOT AND EASEMENTS)

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY CHAPTER 119, SUBDIVISION AND LAND DEVELOPMENT

## MOUNT JOY TOWNSHIP PLANNING COMMISSION

, 20 , THE MOUNT JOY TOWNSHIP PLANNING COMMISSION APPROVED THIS PROJECT, INCLUDING THE COMPLETE SET OF PLANS AND INFORMATION WHICH ARE FILED WITH THE COMMISSION IN MOUNT JOY TOWNSHIP PLANNING COMMISSION BASED UPON ITS CONFORMITY WITH THE STANDARDS OF CHAPTER 119, SUBDIVISION AND LAND DEVELOPMENT

SIGNATURES OF THE CHAIRMAN AND VICE CHAIRMAN OR THEIR

DESIGNEES.

## LANCASTER COUNTY PLANNING COMMISSION'S REVIEW CERTIFICATE

THIS PLAN, BEARING LCPC FILE NO. WAS REVIEWED BY STAFF OF THE LANCASTER COUNTY PLANNING DEPARTMENT ON REQUIRED BY THE PENNSYLVANIA MUNICIPALITIES PLANNING CODE, ACT 247, OF 1968, AS AMENDED. THIS CERTIFICATE DOES NOT REPRESENT NOR GUARANTEE THAT THIS PLAN COMPLIES WITH THE VARIOUS ORDINANCES, RULES, REGULATIONS, OR LAWS OF THE LOCAL MUNICIPALITY, THE COMMONWEALTH, OR THE FEDERAL GOVERNMENT.

CHAIRMAN OR DESIGNEE



DRAWN BY: BJN CHECKED BY: RJR

DATE: 12-18-2024 DEED REF: 6770530

UPI: 4608631500000 SHEET I OF 17

EDIMENT REMOVED FROM BMPS CAN BE SPREAD ON SITE AND IMMEDIATELY STABILIZED BY ADDING SEED AND STRAW SO IT CAN BE INCORPORATED INTO THE SOIL STRUCTURE. FIND SOURCE OF SEDIMENT POLLUTION AND STABILIZE IMMEDIATELY

OIL AND OTHER DEBRIS SHOULD BE DISPOSED OF PER ENVIRONMENTAL LAWS.

MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BMPS AFTER EACH MAJOR RUNOFF EVENT > 1 INCH RAINFALL DEPTH) AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING RESEEDING. RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF THE BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE

A LOG SHOWING DATES THAT BMPS WERE INSPECTED, AS WELL AS ANY DEFICIENCIES FOUND, AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF THE INSPECTION

PLEASE NOTE – IF AFTER PERFORMING MAINTENANCE ROUTINES. THE FOLLOWING DO NOT OPERATE PROPERLY, CONTACT DESIGN ENGINEER.

ORIVEWAY/PARKING AREAS • INSPECT REGULARLY FOR OIL AND DEBRIS ACCUMULATION.

GRASS LAWN AREA • MOW REGULARLY (WEEKLY). INSPECT GRASS AREAS REGULARLY (WEEKLY) FOR GARBAGE/OTHER DEBRIS; REMOVE AS ENCOUNTERED. MAINTAIN EXISTING VEGETATION. RE-VEGETATE ANY BARE SPOTS AS SOON AS POSSIBLE.

STORMWATER MANAGEMENT CONTROLS INSPECT REGULARLY FOR DEBRIS ACCUMULATION, EROSION, AND VEGETATIVE COVER.

MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (> 1 INCH RAINFALL DEPTH):

• INSPECT AND CORRECT EROSION PROBLEMS AND DAMAGE TO VEGETATION ENSURE THAT SOIL IS COVERED WITH VEGETATION OR MULCH TO PROTECT FROM EROSION • SOIL RESTORATION MAY BE REQUIRED IF EROSION IS SIGNIFICANT.

### WASTE DISPOSAL AND RECYCLING

ALL BUILDING MATERIALS AND 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.

BORROW/WASTE AREAS/FILL

ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM ANOTHER SITE, THE

RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH PERMITTEE

L. CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE) 3. CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS FOR REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL." ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING

. ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT UALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIV. FECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL". FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE

ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO

REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER OREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY ÆGETATION, ORGANIC MATERIAL, LARGE STONES AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENTS SHALL BE COMPACTED IN MAXIMUM 6" LAYERED LIFTS AT 95% DENSITY.

## TEMPORARY AND PERMANENT STABILIZATION

EROSION AND SEDIMENT CONTROL BMPS SHALL BE IMPLEMENTED AND MAINTAINED JNTIL PERMANENT STABILIZATION IS COMPLETED AND PCSM BMPS ARE OPERATIONAL. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 NCHES -- 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL

IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE TABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT FOR A PERIOD EXCEEDING 4 DAYS, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE. WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE FEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT

HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE. STRAW MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70%

VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON

EACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF

DIVERSION CHANNELS, SEDIMENTATION BASINS, SEDIMENT TRAPS AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.

### CONSTRUCTION SEQUENCE NOTES

EARTH DISTURBANCES: ALL EARTH DISTURBANCES, INCLUDING CLEARING, GRUBBING, CUTS, AND FILLS, MUST BE PERFORMED IN LINE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST ALWAYS BE AVAILABLE AT THE PROJECT SITE. ANY CHANGES TO THE APPROVED PLAN MUST BE NOTIFIED TO THE REVIEWING AGENCY BEFORE IMPLEMENTATION.

PRECONSTRUCTION MEETING: AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER/OPERATOR SHOULD INVITE ALL RELEVANT PARTIES TO AN ON-SITE PRECONSTRUCTION MEETING. THEY MUST BRING A COPY OF THEIR NPDES PERMIT AND A COPY OF THE STAMPED PLAN TO

NOTIFICATION TO PENNSYLVANIA ONE CALL SYSTEM: AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN UNMARKED AREA, THE PENNSYLVANIA ONE CALL SYSTEM MUST BE NOTIFIED FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

EARTH DISTURBANCE ACTIVITIES: ALL EARTH DISTURBANCE ACTIVITIES MUST PROCEED ACCORDING TO THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. ANY DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY THE LOCAL COUNTY CONSERVATION DISTRICT OR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

NOTIFICATION TO DEPARTMENT: UPON INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS BEFORE PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES. THE PERMITTEE OR CO-PERMITTEE MUST NOTIFY THE DEPARTMENT OR AUTHORIZED LOCAL COUNTY CONSERVATION DISTRICT.

EROSION AND SEDIMENT BMPS: EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.

AREAS TO BE FILLED: AREAS TO BE FILLED MUST BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER

ORIECTIONABLE MATERIAL

CLEARING, GRUBBING, AND TOPSOIL STRIPPING: CLEARING, GRUBBING, AND TOPSOIL STRIPPING MUST BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE.

CONSTRUCTION VEHICLES: AT NO TIME SHOULD CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES AS SHOWN ON THE PLAN MAPS.

LIMITS OF DISTURBANCE: THE LIMITS OF DISTURBANCE (LOD), STREAMS, AND WETLANDS SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES TOPSOIL: TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHOULD BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE NECESSARY AMOUNT TO COMPLETE THE FINISH GRADING OF ALL EXPOSED

EROSION CONTROL BLANKETING: EROSION CONTROL BLANKETING SHOULD BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

AREAS THAT ARE TO BE STABILIZED BY VEGETATION.

FINAL STABILIZATION: AFTER FINAL STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT BMPS.

UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.

BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE. THE OPERATOR MUST ASSURE THAT EACH SPOIL OR BORROW AREA HAS AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT, AND WHICH IS BEING IMPLEMENTED AND MAINTAINED ACCORDING TO CHAPTER 102 REGULATIONS FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS. THE OPERATOR SHALL ALSO NOTIFY THE LOCAL COUNTY CONSERVATION DISTRICT IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS WHEN THEY HAVE BEEN IDENTIFIED.

## CONSTRUCTION SEQUENCE

1. PERFORM CONSTRUCTION STAKEOUT AND FIELD MARK ALL E&S CONTROLS AND LIMITS OF DISTURBANCE.

2. INSTALL TEMPORARY ROCK CONSTRUCTION ENTRANCE PER PLAN SPECIFICATIONS

3. INSTALL TEMPORARY SILTSOCK PER PLAN SPECIFICATIONS & DETAILS 4. INITIATE STRIPPING AND STOCKPILING OF TOPSOIL FROM AREAS WHICH ARE TO BE RE-GRADED FOR THE CONSTRUCTION OF THE INFILTRATION BASIN. STRIPPING SHALL BE LIMITED TO THOSE AREAS WHICH ARE TO BE IMMEDIATELY RE-GRADED.

STOCKPILE EXCESS SOIL AND TOPSOIL IN DESIGNATED AREA.

- 5. INITIATE ROUGH GRADING FOR INSTALLATION OF INFILTRATION BASIN, VEGETATED SWALE 1, 2, AND PIPES 1, 2. AVOID HEAVY EQUIPMENT WITHIN THE BASIN BOTTOM TO PREVENT COMPACTION. TO THE EXTENT POSSIBLE, DISTURBANCE SHALL BE LIMITED TO THE AREA BEING GRADED AT ANY GIVEN
- 6. CRITICAL STAGE INITIATE CONSTRUCTION OF THE INFILTRATION BASIN, VEGETATED SWALE 1, 2 AND PIPES 1 AND 2, AND RIP RAP 1. INSTALL PRINCIPAL SPILLWAY WITH ASSOCIATED OUTLET BARRELL, ANTISEEP COLLARS, FLARED END SECTION, RIP-RAP 1, AND EMERGENCY SPILLWAY. INSTALL BASIN PROTECTION 24' SILTSOCK. INSTALL ASSOCIATED INLET FILTER BAGS AND ROCK FILTERS IN SWALES 1, 2 TO PREVENT SEDIMENT FROM ENTERING THE BASIN.

7. INITIATE STRIPPING AND STOCKPILING OF TOPSOIL FROM AREAS WHICH ARE TO BE

- RE-GRADED FOR THE POULTRY BARNS, MANURE STORAGE BUILDING, EGG ROOM, GRAVEL DRIVEWAY, AND ASSOCIATED GRAVEL PADS. STRIPPING SHALL BE LIMITED TO THOSE AREAS WHICH ARE TO BE IMMEDIATELY RE-GRADED. STOCKPILE EXCESS SOIL AND TOPSOIL IN DESIGNATED AREA. 8. INITIATE ROUGH GRADING FOR INSTALLATION OF POULTRY BARNS, MANURE
- STORAGE BUILDING, EGG ROOM, GRAVEL DRIVEWAY, AND ASSOCIATED GRAVEL PADS. TO THE EXTENT POSSIBLE, DISTURBANCE SHALL BE LIMITED TO THE AREA BEING GRADED AT ANY GIVEN TIME.
- 9. INSTALL CONCRETE WASTE DISPOSAL AREA PER PLAN DETAILS AND
- 10. INITIATE CONSTRUCTION OF THE POULTRY BARNS, MANURE STORAGE BUILDING EGG ROOM, GRAVEL DRIVEWAY, AND ASSOCIATED GRAVEL PADS. INSTALL
- UNDERGROUND UTILITIES INCLUDING WELLS, WATER LATERALS, AND ELECTRIC 11. COMPLETE THE FINAL GRADING OF THE AREA PER THE SITE PLAN. REMOVE ALL SEDIMENT FROM E&S CONTROLS, INCLUDING ALL SILT SOCKS, AND WORK INTO THE FINAL GRADING. E&S CONTROLS ARE TO REMAIN IN PLACE.
- 12. WHEN FINAL GRADE IS ACHIEVED, PERMANENT VEGETATIVE STABILIZATION SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS. ANY SLOPE EXCEEDING 3:1 SHALL HAVE EROSION CONTROL BLANKET INSTALLED ON THE SLOPE PER PLAN SPECIFICATIONS AND DETAILS. STABILIZE ALL PRIVATE DRIVE, DRIVEWAYS, AND
- OVERFLOW PARKING AREAS WITH GRAVEL. 13. ONCE THE SITE IS STABILIZED PER THE PERMANENT STABILIZATION SPECIFICATIONS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE LANCASTER COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO THE COMMENCEMENT OF PCSM IMPROVEMENTS. PCSM IMPROVEMENTS CAN ONLY COMMENCE ONCE THE LANCASTER COUNTY CONSERVATION DISTRICT HAS BEEN CONTACTED AND THE SITE IS STABILIZED PER THE PERMANENT STABILIZATION SPECIFICATIONS.
- 4. BEGIN EXCAVATION FOR INSTALLATION OF THE PCSM TOPSOIL AMENDMENT WITHIN THE BASIN BOTTOM. AVOID COMPACTION WITHIN THE BASIN BOTTOM. ONCE SUBGRADE IS EXPOSED TREAT BOTTOM FOR COMPACTION PER PLAN
- DETAILS AND SPECIFICATIONS. 15. PRIOR TO INSTALLING AMENDED TOPSOIL DESIGN ENGINEER TO PERFORM INFILTRATION TESTING TO ENSURE THE BASIN WILL FUNCTION AS DESIGNED. 16. INSTALL AMENDED TOPSOIL WITHIN THE BASIN BOTTOM TO THE FINAL DESIGN
- GRADE PER PLAN DETAILS AND SPECIFICATIONS. 17. INSTALL THE LEVEL SPREADER W/ NAG P300 LINED BERM PER PLAN DETAILS AND
- SPECIFICATIONS. 18. PERMANENTLY STABILIZE ANY AREAS NOT FULLY ESTABLISHED WITH VEGETATION. 19. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT
- INSPECTION PRIOR TO THE REMOVAL OF THE TEMPORARY BMPS. 20. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, REMOVAL OF ALL TEMPORARY BMPS AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OPERATORS SHALL CONTACT THE LANCASTERCOUNTY

CONSERVATION DISTRICT FOR A FINAL INSPECTION.

STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS

SHALL CONTACT THE LANCASTERCOUNTY CONSERVATION DISTRICT FOR AN

# PCSM PLAN ADAM BRANDT AG OPERATION

MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

**ADAM BRANDT** 7573 ELIZABETHTOWN ROAD

ELIZABETHTOWN PA 17022

POST CONSTRUCTION STORMWATER MANAGEMENT OPERATION AND MAINTENANCE ACKNOWLEDGEMENT OF RESPONSIBILTY.

I HEREBY ACKNOWLEDGE THAT, I AM RESPONSIBLE FOR THE POST-CONSTRUCTION OPERATION AND MAINTENANCE OF ALL STORMWATER MANAGEMENT CONVEYANCES AND BEST MANAGEMENT PRACTICES AS STATED BELOW AND NO MODIFICATIONS CAN BE MADE WITHOUT OBTAINING THE APPROVAL FROM THE CONSERVATION DISTRICT

OWNER / OPERATOR

AND COMPACTION

INFILTRATION BASIN

THE BASIN IS EQUIPPED WITH A PRINCIPAL SPILLWAY OUTLET STRUCTURE THAT IS LINKED TO

THE BASIN ALSO FEATURES AN EMERGENCY SPILLWAY, WHICH IS A VEGETATED, BROAD-CRESTED WEIR. THE CREST AND EXIT SLOPE OF THIS EMERGENCY SPILLWAY ARE TO BE CONSISTENTLY MAINTAINED AND STABILIZED WITH PERMANENT VEGETATIVE COVER AND PERMANENT EROSION CONTROL MATTING

ADDITIONALLY, THE BASIN INCLUDES A MAINTENANCE DEWATERING UNDERDRAIN. THIS UNDERDRAIN HAS A SHUT-OFF VALVE SITUATED INSIDE THE RISER PIPE OF THE PRINCIPAL SPILLWAY, FOR NORMAL OPERATION OF THE BASIN, THIS SHUT-OFF VALVE SHOULD REMAIN CLOSED. HOWEVER, IF THE BASIN BECOMES CLOGGED WITH SEDIMENT, FAILS TO DEWATER PROPERLY, AND REQUIRES MAINTENANCE, THE SHUT-OFF VALVE SHOULD BE OPENED.

OPERATION & MAINTENANCE PROCEDURES

INSPECTION AND MAINTANCE TASKS INSPECTION SCHEDULE

> 1" RAIN EVENT & AS

NEEDED

YEAR 1 - MONTHLY

YEAR 2 AND AFTER-

SEMI-ANNUAL AT A

> 1" RAIN EVENT & AS

NEEDED YEAR 1 &

AFTER - SEMI-ANNUAI

> 1" RAIN EVENT YEAR 1

YEAR 2 & AFTER

SEMI-ANNUAL

- MONTHLY

INSPECT THE BASIN, PRINCIPAL SPILLWAY, EMERGENCY SPILLWAY, EMERGENCY SPILLWAY MATTING, AND RIP-RAP APRONS (INLETS AND OUTLETS) FOR DEBRIS AND/OR EROSION. - IMMEDIATELY REMOVE DEBRIS AND/OR EROSION RESTORING TO ORIGINAL CONDITION AND RECORD MAINTENANCE ACTIVITY IN WRITTEN LOG.

INSPECT THE AMOUNT OF PERMANENT VEGETATIVE COVER ON THE SOIL SURFACE OF THE BASIN AND ITS EMERGENCY SPILLWAY. -SEED ANY BARE SPOTS WITH SPECIFIED SEED MIX -REMOVE ALL NOXIOUS WEEDS / DISEASED VEGETATION -DURING A TIME OF DROUGHT WATERING MAYBE NECESSARY -MOWING OF BASIN AND DISPOSE OF CUTTINGS IN LOCAL COMPOST FACILITY. MOW ONLY WHEN BASIN IS DRY TO PREVENT RUTTING

RECORD MAINTENANCE ACTIVITY IN WRITTEN LOG. STANDING / PONDING WATER - DEWATERING INSPECT THE BASIN FOR STANDING/PONDING WATER -INSPECT THE BASIN DEWATERS WITHIN 24 HOURS -IF BASIN FAILS TO DEWATER OPEN KNIFE VALVE IN MAINTENANCE DEWATERING UNDERDRAIN OR INSTALL ABACT COMPOST FILTER SOCK AND PUMPED WATER FILTER BAG TO DEWATER. CONTACT DESIGN ENGINEER FOR SITE VISIT TO PROVIDE REMEDIATION

-IF PONDING WATER OCCURS DUE TO COMPACTION. TREAT THE AREA FOR COMPACTION IN ACCORDANCE WITH SOIL RESTORATION NOTES (RIP SOIL TO LOOSEN), ADD TOPSOIL AMENDMENT TO -IF PONDING WATER OCCURS DUE TO SETTLEMENT/INCORRECT INSTALLATION. SCARIFY BOTTOM AREA ADD TOPSOIL AMENDMENT TO RESTORE BASIN BOTTOM TO FINAL DESIGN ELEVATION.

## PCSM BASIN CONSTRUCTION NOTES

RECORD MAINTENANCE ACTIVITY IN WRITTEN LOG

INFILTRATION FACILITIES: THESE RELY ON PERMEABLE SOIL CONDITIONS TO DEWATER AND FUNCTION PROPERLY. SOIL, GEOLOGIC, AND/OR INFILTRATION TESTING WAS CONDUCTED BY A QUALIFIED PROFESSIONAL TO ENSURE SUITABLE CONDITIONS FOR STORMWATER MANAGEMENT CONTROL.

CONSTRUCTION PRECAUTIONS: THE CONTRACTOR MUST ENSURE THAT COMPACTION DOES NOT OCCUR DURING THE CONSTRUCTION OF THE INFILTRATION FACILITY, WHICH WOULD COMPROMISE THE PERMEABILITY OF THE FACILITY FLOOR. ONLY LIGHT CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN THE BASIN INTERIORS.

BASIN DEPTH: A MINIMUM DEPTH OF 24" IS REQUIRED BETWEEN THE BOTTOM OF THE BASIN AND THE SEASONAL HIGH WATER TABLE AND/OR BEDROCK. IF BEDROCK IS PRESENT WITHIN 24" OF THE BOTTOM OF THE BASIN, OVER-EXCAVATE 24" AND FILL THE AREA WITH UNCOMPACTED NATIVE MATERIAL.

SINKHOLE ACTIVITY: IF EVIDENCE OF SINKHOLE ACTIVITY OR PINNACLES OF CARBONATE ROCK ARE ENCOUNTERED IN THE AREA OF THE BASIN, HALT EXCAVATION AND NOTIFY THE

POST-INSTALLATION: IF ANY INFILTRATION FACILITY DOES NOT FUNCTION AS DESIGNED OR FAILS TO DEWATER WITHIN 72 HOURS OF A STORM EVENT THE FACILITY SHOULD BE DEWATERED, UNCLOG ANY ORIFICES, TREAT BOTTOM AREA FOR COMPACTION AND RESTORE THE FACILITY TO THE COMPLY WITH THE STANDARDS SET FORTH WITHIN THE DESIGN (IE INFILTRATION RATES)

INSTALL PRINCIPAL SPILLWAY AND EMERGENCY SPILLWAY. 2. INSTALL MAINTENANCE DEWATERING UNDERDRAIN IF SPECIFIED. 3. REMOVE ALL SEDIMENT FROM BASIN IF BASIN WAS USED AS E&S CONTROL DURING

4. TREAT COMPACTION AND INSTALL 12" MINIMUM TOPSOIL AMENDMENT PER SOIL AMENDMENT AND RESTORATION NOTES 5. COMPLETE FINAL GRADING TO ACHIEVE PROPOSED DESIGN ELEVATIONS

6. IMMEDIATELY AFTER FINAL GRADE IS ACHIEVED FOR PCSM BASIN, PERMANENT VEGETATIVE STABILIZATION SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS PER PLAN SPECIFICATIONS AND DETAILS. ANY SLOPE 3:1 OR STEEPER SHALL HAVE EROSION CONTROL MATTING INSTALLED ON THE SLOPE PER PLAN SPECIFICATIONS AND DETAILS. 7. PREFORM PCSM INFILTRATION TESTING TO ENSURE FACILITY IS CONSISTENT WITH THE

## PCSM VEGETATED SWALE CONSTRUCTION NOTES

IF A VEGETATED SWALE IS UTILIZED FOR RUNOFF CONVEYANCE DURING CONSTRUCTION, IT SHOULD BE IMMEDIATELY GRADED AND STABILIZED. ANY AREAS THAT ARE DAMAGED SHOULD BE FULLY RESTORED TO ENSURE THE SWALE'S FUTURE FUNCTIONALITY.

THE CONSTRUCTION SEQUENCE IS AS FOLLOWS: CARRY OUT A ROUGH GRADING OF THE VEGETATED SWALE. ENSURE THAT THE EQUIPMENT AVOIDS CAUSING EXCESSIVE COMPACTION AND/OR LAND DISTURBANCE. REINTRODUCE THE TOPSOIL AMENDMENT INTO THE VEGETATED SWALE IN ACCORDANCE WITH THE PLAN DETAILS AND SPECIFICATIONS. REFER TO THE SOIL AMENDMENT AND RESTORATION NOTES FOR MORE INFORMATION. IF NECESSARY, CONSTRUCT ROCK FILTERS.

PERFORM FINAL GRADING OF THE VEGETATED SWALE. INSTALL PERMANENT SEEDING AND PROTECTIVE LINING IN LINE WITH THE APPROVED PLANS AND THE SEEDING MIX

## PCSM PLAN DRAWING INDEX

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P4 OF 8 PCSM PLAN: SITE DETAILS

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## PCSM PLAN DRAWING INDEX

P1 OF 8 PCSM PLAN NOTES P2 OF 8 PCSM EXISTING FEATURES

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P6 OF 8 EASEMENT

PRE-DEVELOPMENT DRAINAGE AREA MAP POST-DEVELOPMENT DRAINAGE AREA MAP

### OPERATION & MAINTENANCE PROCEDURES

> 1" RAIN EVENT YEAR 1

BIWEEKLY

YEAR 2 - QUARTERLY

YEAR 3 & AFTER

INSPECTION AND MAINTANCE TASKS INSPECTION SCHEDULE INSPECT THE LEVEL SPREADER FOR DEBRIS AND/OR EROSION. > 1" RAIN EVENT OR AS NEEDED - SEDIMENT AND DEBRIS SHOULD BE ROUTINELY REMOVED (BUT YEAR 1- MONTHLY NEVER LESS THAN SEMIANNUALLY), OR UPON OBSERVATION, WHEN YEAR 2 & AFTER -

TRENCH LEVEL SPREADER

BUILDUP OCCURS IN THE CLEAN OUTS. RECORD MAINTENANCE ACTIVITY IN WRITTEN LOG THE AREA BELOW A LEVEL SPREADER SHOULD BE INSPECTED FOR CLOGGING, DENSITY OF VEGETATION, DAMAGE BY FOOT OR

VEHICULAR TRAFFIC, EXCESSIVE ACCUMULATIONS, AND CHANNELIZATION -MAINTAINING A VIGOROUS VEGETATIVE COVER ON THE AREAS BELOW A LEVEL SPREADER IS CRITICAL FOR MAXIMIZING POLLUTANT REMOVAL EFFICIENCY AND EROSION PREVENTION. IF VEGETATIVE COVER IS NOT FULLY ESTABLISHED WITHIN THE

DESIGNATED TIME, IT MAY NEED TO BE REPLACED WITH AN ALTERNATIVE SPECIES. -REMOVE ALL NOXIOUS WEEDS / DISEASED VEGETATION -VEGETATIVE COVER SHOULD BE SUSTAINED AT 85% AND REPLACED IF DAMAGE GREATER THAN 50% IS OBSERVED. -RECORD MAINTENANCE ACTIVITY IN WRITTEN LOG

ISPECT THE LEVEL SPREADER LIP TO ENSURE IT IS LEVEL REGRADING AND RESEEDING MAY BE NECESSARY IN THE AREAS BELOW THE LEVEL SPREADER. REGRADING MAY ALSO BE REQUIRED WHEN POOLS OF STANDING WATER ARE OBSERVED ALONG THE SLOPE. (IN NO CASE SHOULD STANDING WATER BE ALLOWED FOR LONGER

> 1" RAIN EVENT YEAR 1 - MONTHLY YEAR 2 AND AFTER - SEMI

-RECORD MAINTENANCE ACTIVITY IN WRITTEN LOG

### PERMANENT STABILIZATION CONSTRUCTION NOTES

 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.

2. ALL TOPSOIL SHALL BE REPLACED AT A DEPTH OF AT LEAST 6" IN ORDER TO PROMOTE STORMWATER INFILTRATION AND PERMANENT VEGETATIVE STABILIZATION ON ALL DISTURBED AREAS TO BE PERMANENTLY REVEGETATED.

3. ALL TOPSOIL SHALL BE LOOSENED TO A DEPTH OF AT LEAST 4". ALL OBJECTIONABLE MATERIAL LARGER THAN 2" SHALL BE REMOVED.

4. CONTRACTOR SHALL PROVIDE SOIL TESTING PH BEFORE IMPLEMENTING PERMANENT SEEDING. LIMESTONE AND FERTILIZER SHALL BE APPLIED UNIFORMLY TO AREAS TO BE SEEDED, AND WORKED INTO THE SOIL TO A DEPTH OF 2". IN THE ABSENCE OF SOILS TESTING, APPLY LIMESTONE AND FERTILIZER PER THE APPLICATION RATE SPECIFIED BELOW A. LIMESTONE - PULV. AG., AT 6 TONS/ACRE

B. FERTILIZER - 100 LBS/AC N, 200 LBS/AC P205, 200 LBS/AC K20 \* BASED ON <u>EROSION CONTROL & CONSERVATION PLANTING ON NONCROPLAND.</u>

5. MULCH OF LONG STEM STRAW SHALL BE APPLIED AT AN EVEN APPLICATION OF 3 TONS/ACRE WITH A SURFACE COVERING OF 100%, MULCH SHALL BE EITHER MECHANICALLY STABILIZED OR STABILIZED BY USE OF A TACKIFIER.

## 6. HYDROSEED IS NOT CONSIDERED STABILIZATION UNTIL IT GERMINATES.

|SEED APPLICATION RATES STANDARD WORKSHEET 21

RATE OF ANCHOR MATERIAL APPLICATION:

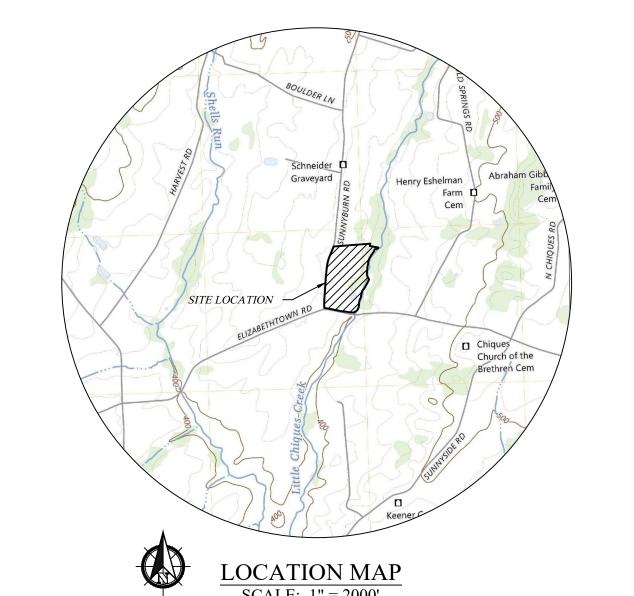
SEEDING MIX: LOW MAINTENANCE BASIN SE	EDING MIX: EMBANKMENTS	SEEDING MIX: SWALES/LOWLANDS/VFS
CONSERVATION FORMULATIONS: BASIN MIX: CONSERVE - LOW MAINTENANCE BASIN 50% TALL FESCUE 18% HARD FESCUE 10% PERENNIAL RYEGRASS 10% CREEPING RED FESCUE 6% WHITE CLOVER 6% REDTOP	CONSERVATION FORMULATIONS: EMBANKMENTS: CONSERVE - HIGH & DRY  55% TALL FESCUE 19% HARD FESCUE 10% SWITCHGRASS 10% PERENNIAL RYEGRASS 6% WHITE CLOVER	CONSERVATION FORMULATIONS: SWALES & LOWLANDS: CONSERVE - LOWLAND 54% TALL FESCUE 24% POA TRIVIALIS 10% PERENNIAL RYEGRASS 6% REDTOP 6% REED CANARYGRASS
SEEDING RATE: 200 LBS PER ACRE	SEEDING RATE: 150 LBS PER ACRE	SEEDING RATE: 200 LBS PER ACRE

SUPPLIED BY: F.M. BROWN'S SONS, INC. SINKING SPRING, PA, PHONE: 800-345-3344, FAX: 610-678-7023 WWW.FMBROWN.COM

(TEMPORARY)

### ANNUAL RYEGRASS SPECIES: % PURE LIVE SEED: 95% APPLICATION RATE: 175 LB. / ACRE 10-10-10 (X-X-X) FERTILIZER TYPE: 500 LB. / ACRE FERTILIZER APPLICATION RATE LIMING RATE: 1.0 T. / ACRE MULCH TYPE: STRAW OR HAY MULCHING RATE 3.0 T. / ACRE (PERMANENT) TOPSOIL PLACEMENT DEPTH 55% TALL FESCUE / 19% HARD FESCUE / 10% SWITCHGRASS / 1 PERENNIAL RYE GRASS / 6% WHITE CLOVER % PURE LIVE SEED: APPLICATION RATE 150 LB. / ACRE 10-20-20 (X-X-X) FERTILIZER TYPE: FERTILIZER APPLICATION RATE: 500 LB. / ACRE 6.0 T. / ACRE LIMING RATE: MULCH TYPE: STRAW MULCHING RATE: 3.0 T. / ACRE ANCHOR MATERIAL TACKIFIER ANCHORING METHOD: SPRAY SLURRY

100 LB. / ACRE



### **VEGETATED SWALE O&M NOTES:**

VEGETATED SWALES: THESE ARE INSTALLED TO PROMOTE WATER QUALITY AND STORMWATER INFILTRATION. THEY SHOULD BE MAINTAINED AND STABILIZED WITH PERMANENT VEGETATIVE COVER. ANY DAMAGED AREAS SHOULD BE FULLY RESTORED TO ENSURE FUTURE FUNCTIONALITY OF THE SWALE.

PENNSYLVANIA QUADRANGLE-ELIZABETHTOWN

 INSPECTION AND MAINTENANCE: A SCHEDULE OF INSPECTION AND MAINTENANCE ACTIVITIES IS RECOMMENDED. THESE ACTIVITIES SHOULD BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR

SHORT TERM RESPONSIBILITIES: THESE INCLUDE INSPECTING AND CORRECTING EROSION PROBLEMS, DAMAGE TO VEGETATION, SEDIMENT AND DEBRIS ACCUMULATION, VEGETATION ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, POOLS OF STANDING WATER, AND LITTER. VEGETATION SHOULD BE MOWED AND TRIMMED TO ENSURE SAFETY, AESTHETICS, PROPER SWALE OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION. THE SWALE INLET AND OUTLET SHOULD ALSO BE INSPECTED FOR SIGNS OF

 LONG TERM RESPONSIBILITIES: THESE INCLUDE PLANTING ALTERNATIVE GRASS SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT, RESEEDING BARE AREAS, INSTALLING APPROPRIATE EROSION CONTROL MEASURES WHEN NATIVE SOIL IS EXPOSED OR EROSION CHANNELS ARE FORMING. ROTOTILLING AND REPLANTING SWALE IF STANDING WATER EXISTS FOR MORE THAN 48 HOURS. INSPECTING AND CORRECTING CHECK DAMS WHEN SIGNS OF ALTERED WATER FLOW ARE IDENTIFIED. WATERING DURING DRY PERIODS. FERTILIZING, APPLYING PESTICIDE ONLY WHEN ABSOLUTELY NECESSARY, REMOVING DEBRIS AND/OR SEDIMENT FROM SWALES, AND MOWING ALL GRASSES AT LEAST TWICE EACH YEAR, IF PERMANENT VEGETATIVE COVER FALLS BELOW 70% OF THE SOIL SURFACE OF THE SWALES. RE-SEED OR OVER-SEED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS.

### SOIL AMENDMENT & RESTORATION CONSTRUCTION NOTES

SOIL AMENDMENT AND RESTORATION INVOLVE THE PROCESS OF REJUVENATING DISTURBED SOILS BY RESTORING SOIL POROSITY THROUGH PHYSICAL TREATMENT AND/OR ADDING A SOIL AMENDMENT, SUCH AS TOPSOIL COMPOST OR COMPOSTED MANURE SOLIDS. THE SOIL RESTORATION PROCESS MAY NEED TO BE

TREATING COMPACTION BY RIPPING/SUBSOILING/TILLING/SCARIFICATION CONSTRUCTION SEQUENCE: SUBSOILING IS ONLY EFFECTIVE WHEN PERFORMED ON DRY SOILS. RIPPING, SUBSOILING, OR SCARIFICATION OF THE SUBSOIL SHOULD BE PERFORMED WHERE SUBSOIL HAS BECOME COMPACTED BY EQUIPMENT OPERATION, DRIED OUT AND CRUSTED, OR WHERE NECESSARY TO REMOVE EROSION RILLS.

RIPPING (SUBSOILING) SHOULD BE PERFORMED USING A SOLID-SHANK RIPPER AND TO A DEPTH OF 20 INCHES, (8 INCHES FOR MINOR COMPACTION). THIS SHOULD BE PERFORMED BEFORE TOPSOIL AMENDMENT IS PLACED AND AFTER ANY EXCAVATION IS SUBSOILING SHOULD NOT BE PERFORMED WITH COMMON TILLAGE TOOLS SUCH AS A DISK OR CHISEL PLOW

BECAUSE THEY ARE TOO SHALLOW AND CAN COMPACT THE SOIL JUST BENEATH THE TILLAGE DEPTH. INFILTRATOR CONSTRUCTION SEQUENCE: PRIOR TO THE REPLACEMENT OF TOPSOIL AMENDMENT IN THE BMP, TREAT COMPACTED AREAS BY RIPPING, SUBSOILING, TILLING, OR SCARIFYING AS OUTLINED. DISTRIBUTE TOPSOIL AMENDMENT OVER THE INFILTRATION BMP. ON-SITE TOPSOIL WITH AN ORGANIC

CONTENT OF AT LEAST 5 PERCENT CAN BE PROPERLY STOCKPILED AND USED. COMPOSTED MANURE SOLIDS

## STABILIZE BMP AS PER PLAN SPECIFICATIONS AND DETAILS.

STABILIZE BMP AS PER PLAN SPECIFICATION AND DETAILS.

VEGETATED CONVEYANCE CONSTRUCTION SEQUENCE: PRIOR TO THE REPLACEMENT OF TOPSOIL AMENDMENT IN THE BMP, TREAT COMPACTED AREAS BY RIPPING, SUBSOILING, TILLING, OR SCARIFYING AS OUTLINED. DISTRIBUTE TOPSOIL WITH A HIGH ORGANIC CONTENT BACK WITHIN VEGETATED SWALES. ON-SITE TOPSOIL WITH A CONTENT OF AT LEAST 5 PERCENT CAN BE PROPERLY STOCKPILED AND USED.

### TABLE 4.2: COMPOST STANDARDS (FROM PA DEP E&S CONTROL MANUAL)

SOLUBLE SALT CONCENTRATION

25% - 100% (DRY WEIGHT BASIS) ORGANIC PORTION FIBROUS AND ELONGATED 5.5 - 8.5 MOISTURE CONTENT PARTICLE SIZE 30% - 50% PASS THROUGH 3/8" SIEVE

MAY BE USED TO AMEND SOIL AT A RATE OF 5%-15%. GREEN MANURE MAY NOT BE USED.

STORMWATER PIPES & APPURTENANCES MAINTENANCE: STORMWATER PIPES AND APPURTENANCES, INCLUDING FLARED END SECTIONS, SHOULD BE MAINTAINED TO ENSURE STRUCTURAL INTEGRITY, DESIGN FLOW CAPACITY, AND UNIMPEDED CONVEYANCE

5.0 dS/m (mmhos/cm) MAXIMUM

INSPECTION: REGULAR INSPECTIONS SHOULD BE CONDUCTED TO CHECK FOR DEBRIS AND/OR SEDIMENT IN STORMWATER PIPES AND APPURTENANCES, AND TO ASSESS THEIR STRUCTURAL INTEGRITY.

MAINTENANCE ACTIONS: ANY DEBRIS AND/OR SEDIMENT FOUND IN STORMWATER PIPES AND APPURTENANCES SHOULD BE REMOVED OR FLUSHED OUT. ANY DAMAGED STORMWATER PIPES AND APPURTENANCES SHOULD BE REPAIRED OR REPLACED.

## RIPRAP OUTLET PROTECTION

RIPRAP OUTLET PROTECTION: RIPRAP OUTLET PROTECTION SHOULD BE MAINTAINED ACCORDING TO THE ORIGINAL DESIGN SPECIFICATIONS TO PREVENT EROSION.

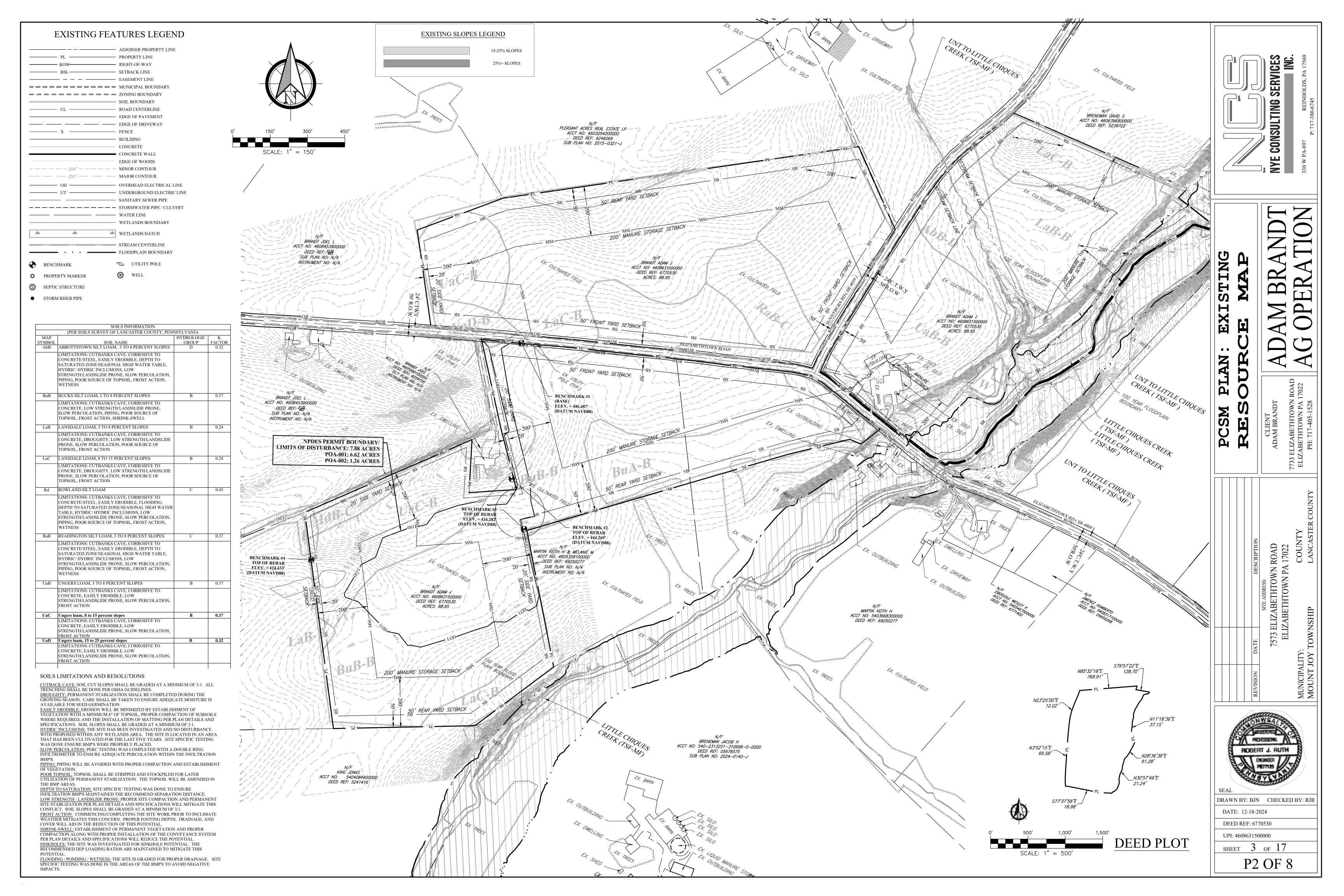
INSPECTION: REGULAR INSPECTIONS SHOULD BE CONDUCTED FOR EROSION AT OUTLETS AND FOR LOSS OF

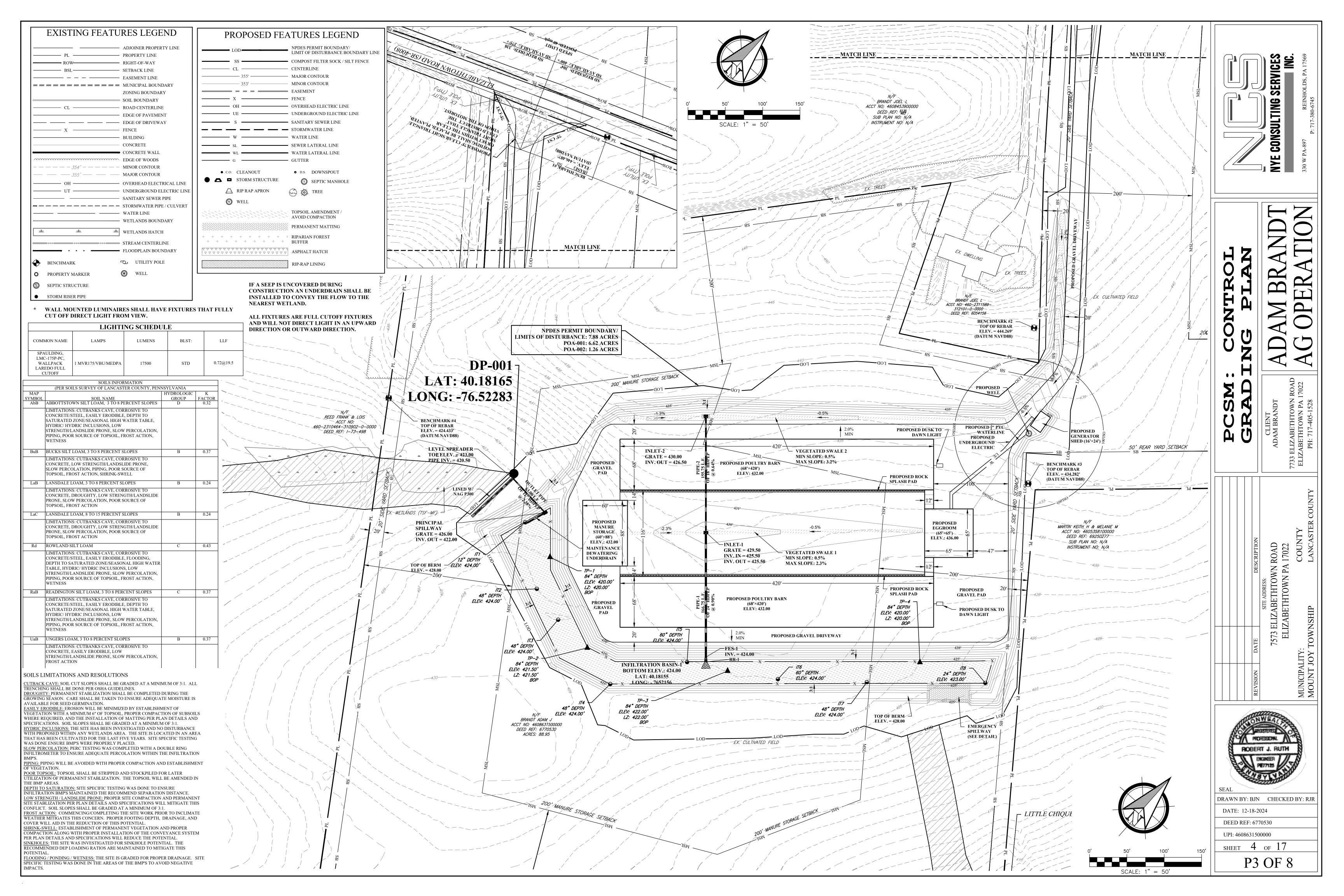
MAINTENANCE: IF THE SPECIFIED RIPRAP SIZE IS INADEQUATE TO PREVENT EROSION, RIPRAP OF A LARGER SIZE SHOULD BE INSTALLED. RIPRAP SHOULD BE REPLACED AS NEEDED TO MAINTAIN THE ORIGINAL DESIGN SPECIFICATIONS

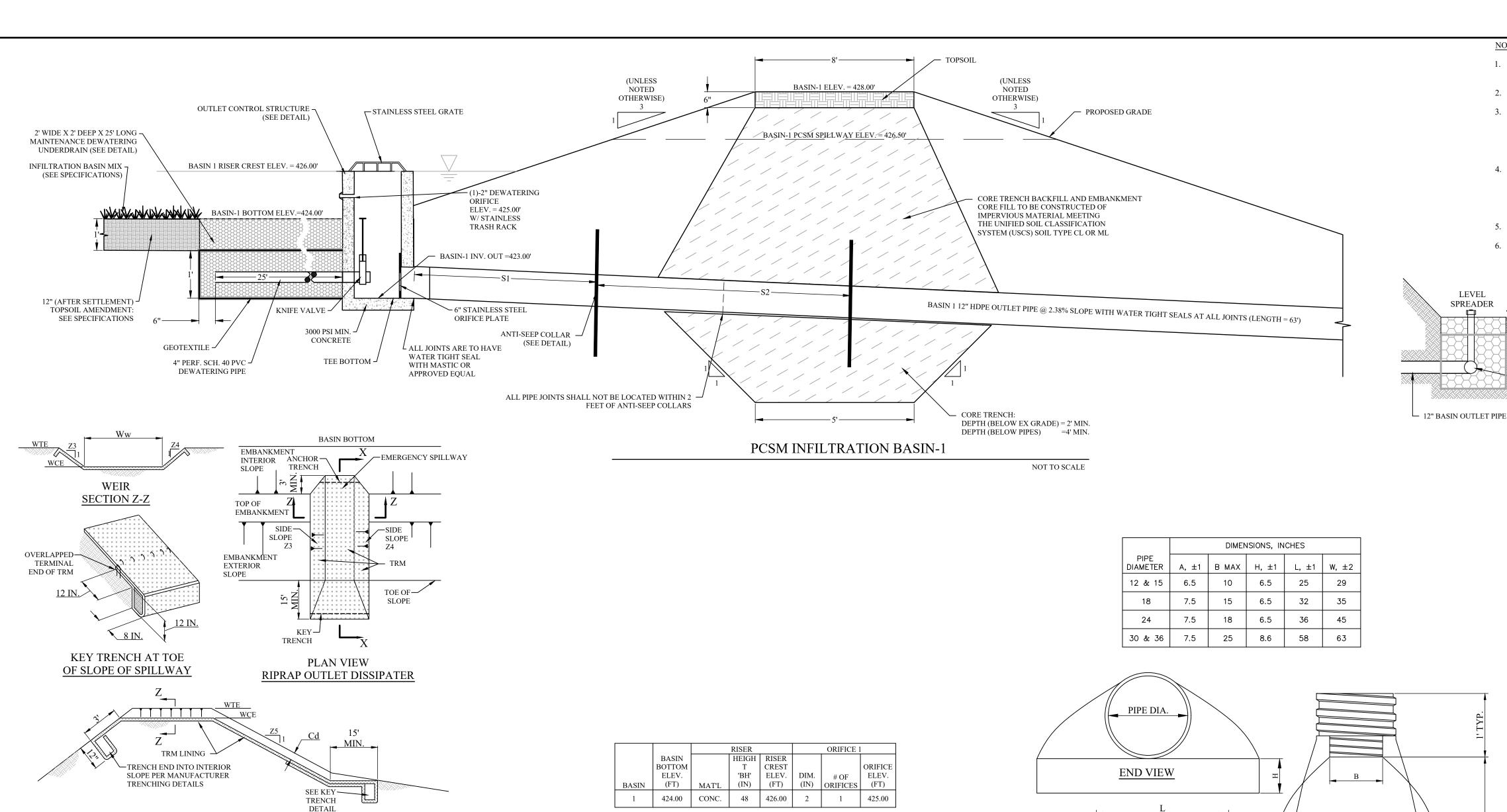


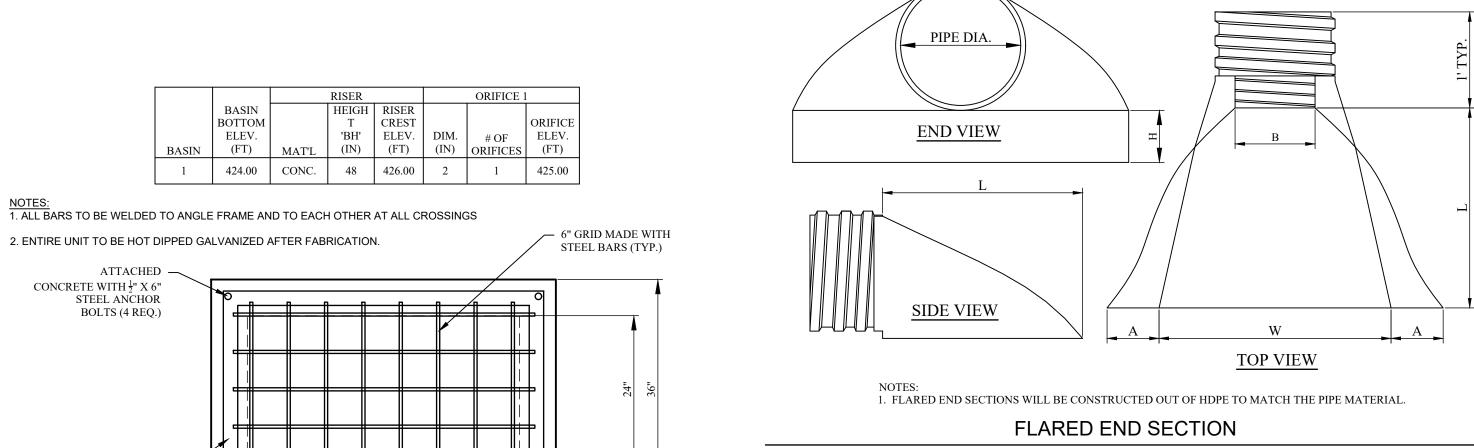
DRAWN BY: BJN CHECKED BY: RJR DATE: 12-18-2024

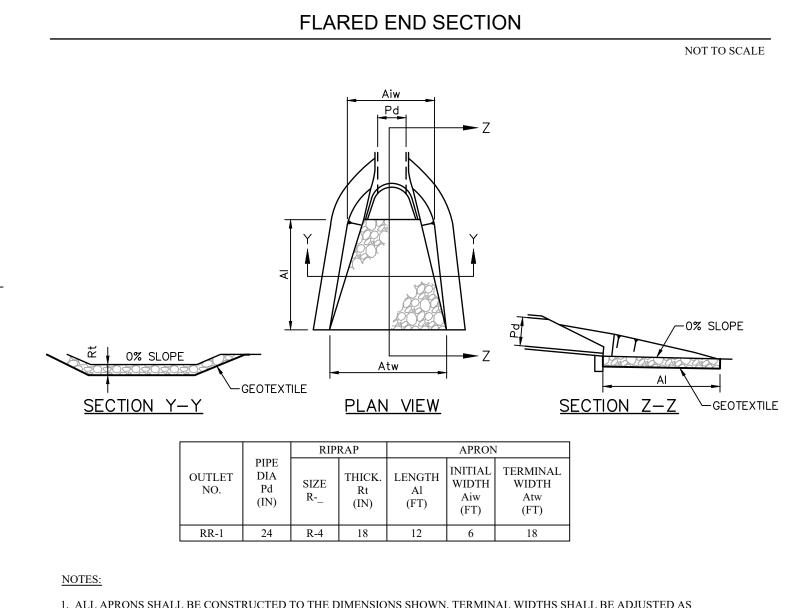
DEED REF: 6770530 UPI: 4608631500000











1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

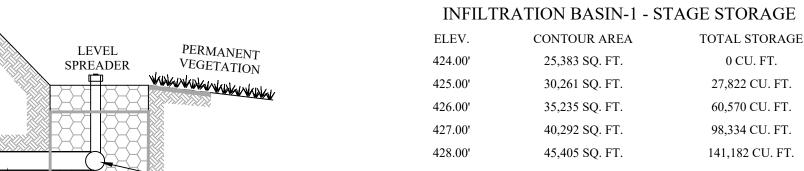
2. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT, DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY

> RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL STANDARD CONSTRUCTION DETAIL #9-1

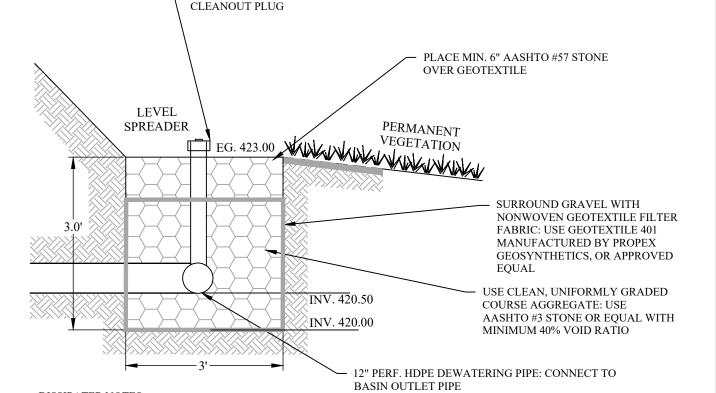
NOT TO SCALE

### NOTES:

- INFILTRATION BASINS SHALL BE KEPT FREE OF ALL TRASH, CONCRETE WASH WATER, AND OTHER DEBRIS THAT POSE THE POTENTIAL FOR POLLUTION TO WATERS OF THE COMMONWEALTH.
- 2. INFILTRATION BASINS MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES.
- BASIN EMBANKMENTS SHALL BE CONSTRUCTED OF CLEAN FILL CONSISTING OF UNCONTAMINATED, NON-WATER SOLUBLE, NON-COMPOSTABLE, INERT, SOLID MATERIAL. THIS INCLUDES SOIL, ROCK, STONE, OR FRACTURED SHALE WHICH CAN BE COMPACTED. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF RUBBISH, ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, STONES GREATER THAN SIX INCHES, FROZEN MATERIAL, AND OTHER OBJECTIONABLE MATERIALS.
- THE EMBANKMENTS/CLAY CORE SHALL BE COMPACTED BY SHEEPSFOOT OR PADFOOT ROLLER. THE LOOSE LIFT THICKNESS SHALL BE NINE INCHES OR LESS, DEPENDING ON THE ROLLER SIZE, AND THE MAXIMUM PARTICLE SIZE IS SIX INCHES OR LESS 2/3 OF THE LIFT THICKNESS. FIVE PASSES OF THE COMPACTING EQUIPMENT OVER THE ENTIRE SURFACE OF EACH LIFT IS REQUIRED. EMBANKMENT COMPACTION TO VISIBLE NONMOVEMENT IS ALSO REQUIRED.
- 5. ALL JOINTS ARE TO BE WATERTIGHT SEALS WITH MASTIC OR APPROVED EQUAL
- 6. ANTI-SEEP COLLARS SHALL NOT BE LOCATED WITHIN 2 FEET OF A PIPE JOINT.



141,182 CU. FT. 12" PERF. HDPE DEWATERING PIPE: CONNECT TO BASIN OUTLET PIPE LINE DOWNSTREAM EDGE OF LEVEL SPREADER WITH NAG P300 TO AIDE IN THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER -80' SEE PLAN -



DISSIPATER NOTES: 1. DISSIPATER SHOULD BE INSTALLED AT LEVEL ELEVATION ON UNCOMPACTED AND

12" PERFORATED DISTRIBUTION ·

4" PVC WITH

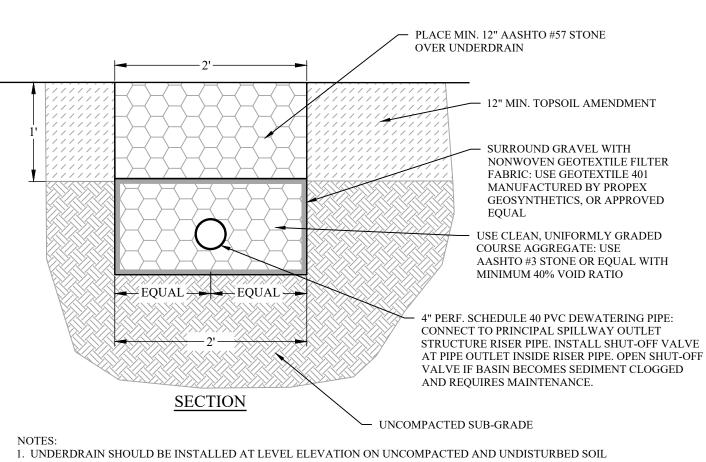
PIPE AT 0.00%

CLEANOUT W/

REDUCER TEE 12" X 4"

- UNDISTURBED SOIL AT LOCATIONS AS SHOWN ON PLAN. 2. WRAP LEVEL SPREADER IN NON-WOVEN GEOTEXTILE MATERIAL 3. PLACE A MINIMUM OF 6" OF AASHTO #57 STONE OVER GEOTEXTILE.
- 4. INSTALL 12" PERFORATED HDPE DEWATERING PIPE AT 0.00% IN DISSIPATER. 5. INSTALL CLEANOUT AND CAP

LEVEL SPREADER - BASIN-1 OUTLET



AT LOCATIONS AS SHOWN ON PLAN.

- 2. WRAP UNDERDRAIN IN NON-WOVEN GEOTEXTILE MATERIAL.
- 3. PLACE A MINIMUM OF 12" OF AASHTO #57 STONE OVER UNDERDRAIN. 4. INSTALL 4" PERFORATED SCHEDULE 40 PVC DEWATERING PIPE IN UNDERDRAIN.
- 5. CONNECT TO PRINCIPAL SPILLWAY OUTLET STRUCTURE RISER PIPE. INSTALL SHUT-OFF VALVE AT PIPE OUTLET INSIDE RISER PIPE. OPEN SHUT-OFF VALVE IF BASIN BECOMES SEDIMENT CLOGGED AND REQUIRES MAINTENANCE.

## PCSM MAINTENANCE DEWATERING TRENCH

NOT TO SCALE

DRAWN BY: BJN CHECKED BY: RJR DATE: 12-18-2024 DEED REF: 6770530 UPI: 4608631500000

ISULTING

S

SHEET 5 OF 17 P4 OF 8

WIDTH ELEV ELEV STAPLE TRM WCE WTE TYPE PATTERN (FT) (FT) 426.50 60 NAG P300 HEAVY EQUIPMENT SHALL NOT CROSS OVER SPILLWAY WITHOUT PRECAUTIONS TAKEN TO PROTECT TRM LINING. DISPLACED LINER WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY. PCSM: EMERGENCY SPILLWAY WITH TRM LINING PROVIDE— WATERTIGHT CONNECTION 12 IN. THICK (MIN.) CAST-IN-PLACE OR PRECAST CONCRETE COLLAR (MIN. 2000 BASIN PIPE SIZE FIRST SECOND COLLAR COLLAR TRAP NO. (IN) COLLARS S1

EMBANKMENT SECTION ALONG EMERGENCY SPILLWAY

SECTION X-X

DEPTH

NOT TO SCALE

4"  $X_{4}^{1}$ " STEEL PLATE

MANUFACTURER MONARCH PRODUCTS, INC.

YORK HAVEN, PA 17370

ATTACHED TO CONCRETE WITH -

STAINLESS STEEL WASHERS &

3/8" X 3" STAINLESS STEEL

ANCHOR BOLTS (4 REQ.),

2" X 2" ANGLE STEEL BAR

ATTACHED TO CONCRETE WITH

STAINLESS STEEL WASHERS &

3/8" X 3" STAINLESS STEEL

ANCHOR BOLTS (4 REQ.),

NUTS

(OR APPROVED EQUAL)

385 SWIPE ROAD

717-938-8303

4'-9 1/4"

4'-9 1/4"

3'-9 1/4"

OUTLET CONTROL STRUCTURE

3" GRID MADE

WITH #4 BARS

'A 4 . . A

(TYP.)

NOTES:

1. ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.

12

2. COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE 3. ALL COLLARS SHALL NOT BE LOCATED CLOSER THAN 2 FEET TO ANY PIPE JOINT.

STANDARD CONSTRUCTION DETAIL #7-16

2.00

CONCRETE ANTI-SEEP COLLAR FOR NOT TO SCALE PERMANENT BASINS OR TRAPS

(FT)

10.00

(FT)

8.00

NOT TO SCALE

RISER CREST ELEV.

ORIFICE 1 ELEV.

W/ TRASHRACK

BASIN BOTTOM

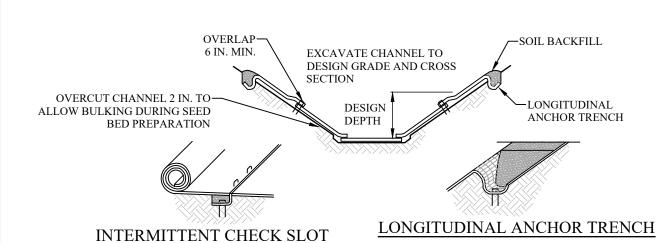
24" X 24" MIN. STAINLES

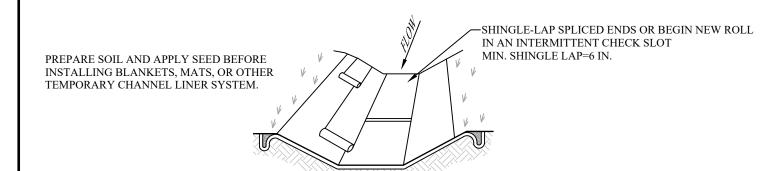
STEEL PLATE WITH 6"

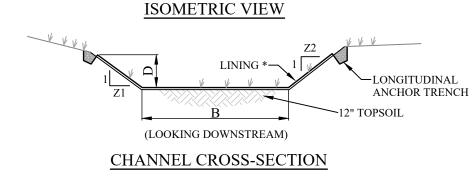
ELEV.

ORIFICE

CHANNEL ID.	BOTTOM WIDTH B (FT)	PROPOSED DEPTH	REQ. DEPTH D (FT)	Z1 (FT)	Z2 (FT)	TEMPORARY LINING *	PERMANENT LINING
SWALE-1 MIN.	5	2	1.49	3	3	NAG S150	VEG. CLASS C
SWALE-1 MAX.	5	2	1.49	3	3	NAG S150	VEG. CLASS C
SWALE-2MIN.	5	2	1.70	3	3	NAG S150	VEG. CLASS C
SWALE-2 MAX.	5	2	1.06	3	3	NAG S150	VEG. CLASS C







\* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

1. ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

2. CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

3. PERMANENT LINING (CLASS C) SHALL BE A PERMANENT GRASS SEEDING MIXTURE AND BE MAINTAINED AT A 6"

## CHANNEL

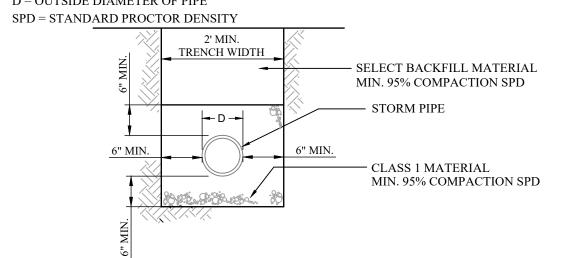
STANDARD CONSTRUCTION DETAIL #6-1

NOT TO SCALE

### **CLASSIFICATION OF MATERIALS:**

CLASS 1 - THIS MATERIAL SHALL CONSIST OF 2A COARSE AGGREGATE OR 2 RC STONE FREE OF SLAG, EXCEPT IN WET OR UNSTABLE AREAS WHERE THE BEDDING MAY BE NO. 8 OR NO. 57 COARSE AGGREGATE. ALL MATERIALS SHALL CONFORM TO PennDOT PUBLICATION 408, SECTION 703.3.

NOTES: - BACKFILL IS TO BE MECHANICALLY TAMPED IN 6" LAYERS. BACKFILL MATERIAL SHALL BE FREE OF LARGE (NOT EXCEEDING SIX INCHES IN ANY DIMENSION), OBJECTIONABLE, OR DETRITUS MATERIAL. SELECT NON-AGGREGATE MATERIAL SHOULD BE INDIGENOUS TO THE SURROUNDING MATERIAL FOR NON-VEHICULAR AREAS. D = OUTSIDE DIAMETER OF PIPE



TRENCH DETAIL

BASE COURSE

— SUBBASE COURSE

NOTES:

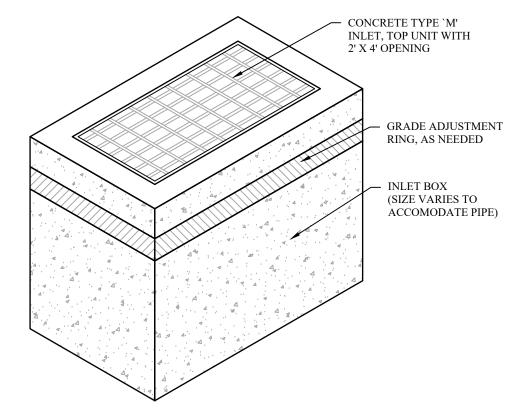
BASE COURSE SHALL BE STONE AGGREGATE MATERIAL CONSISTING OF 8 INCHES OF COMPACTED 2A MODIFIED AND SHALL BE COMPACTED TO THE REQUIRED DEPTH WITH A VIBRATING ROLLER.

2. SUBBASE SHALL BE COMPACTED WITH A VIBRATING ROLLER PRIOR TO APPLYING THE BASE COURSE.

### DRIVEWAY

NOT TO SCALE

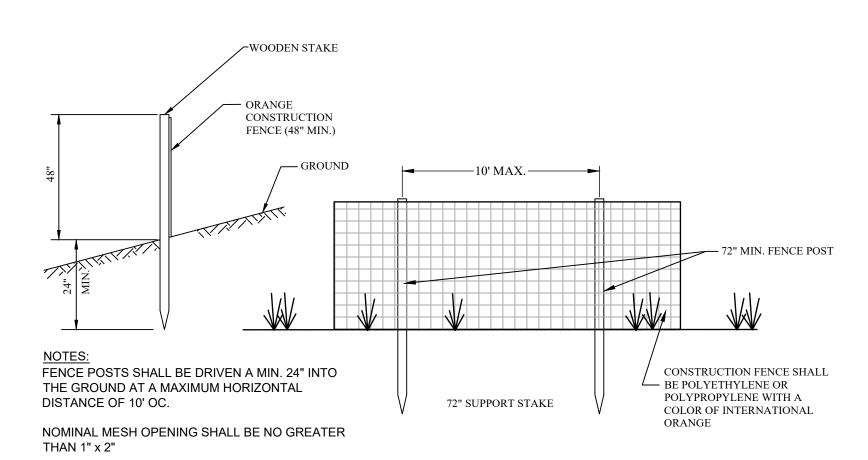
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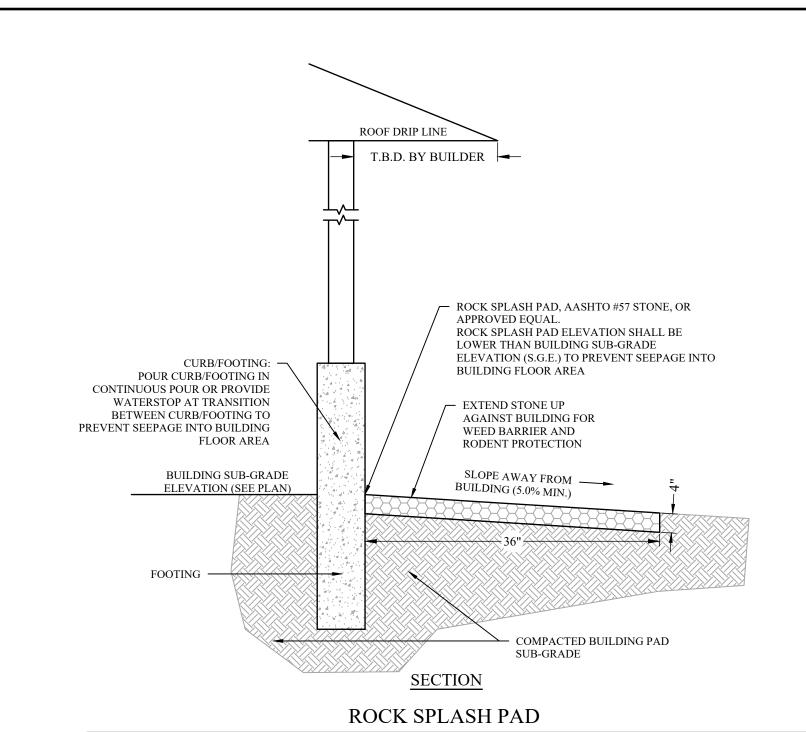
NOTES: 1. MATERIAL AND CONSTRUCTION TO BE BASED ON PENNDOT STANDARDS.

2. ALL JOINTS ARE TO BE WATERTIGHT SEALED WITH MASTIC OR APPROVED EQUAL.

## TYPE M INLET



ORANGE CONSTRUCTION FENCE



NOT TO SCALE

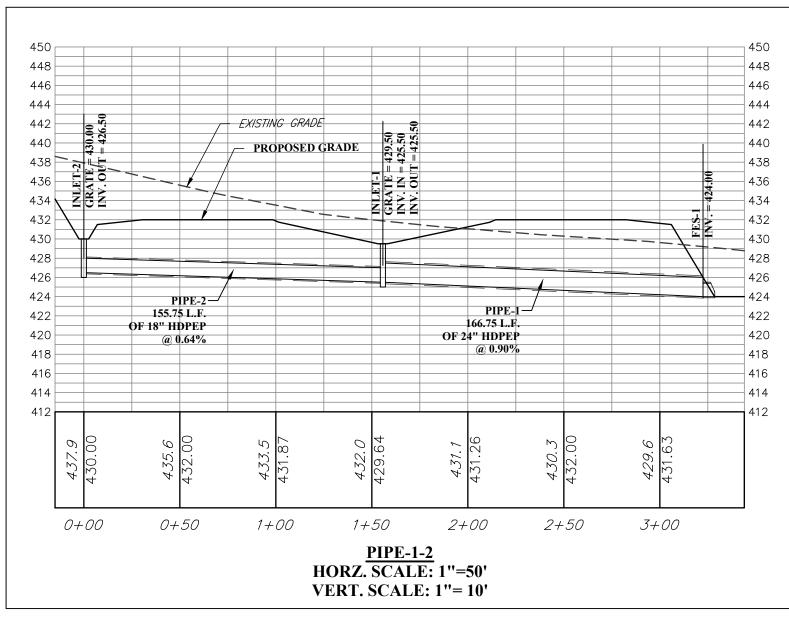
DRAWN BY: BJN CHECKED BY: RJR

DATE: 12-18-2024 DEED REF: 6770530

UPI: 4608631500000

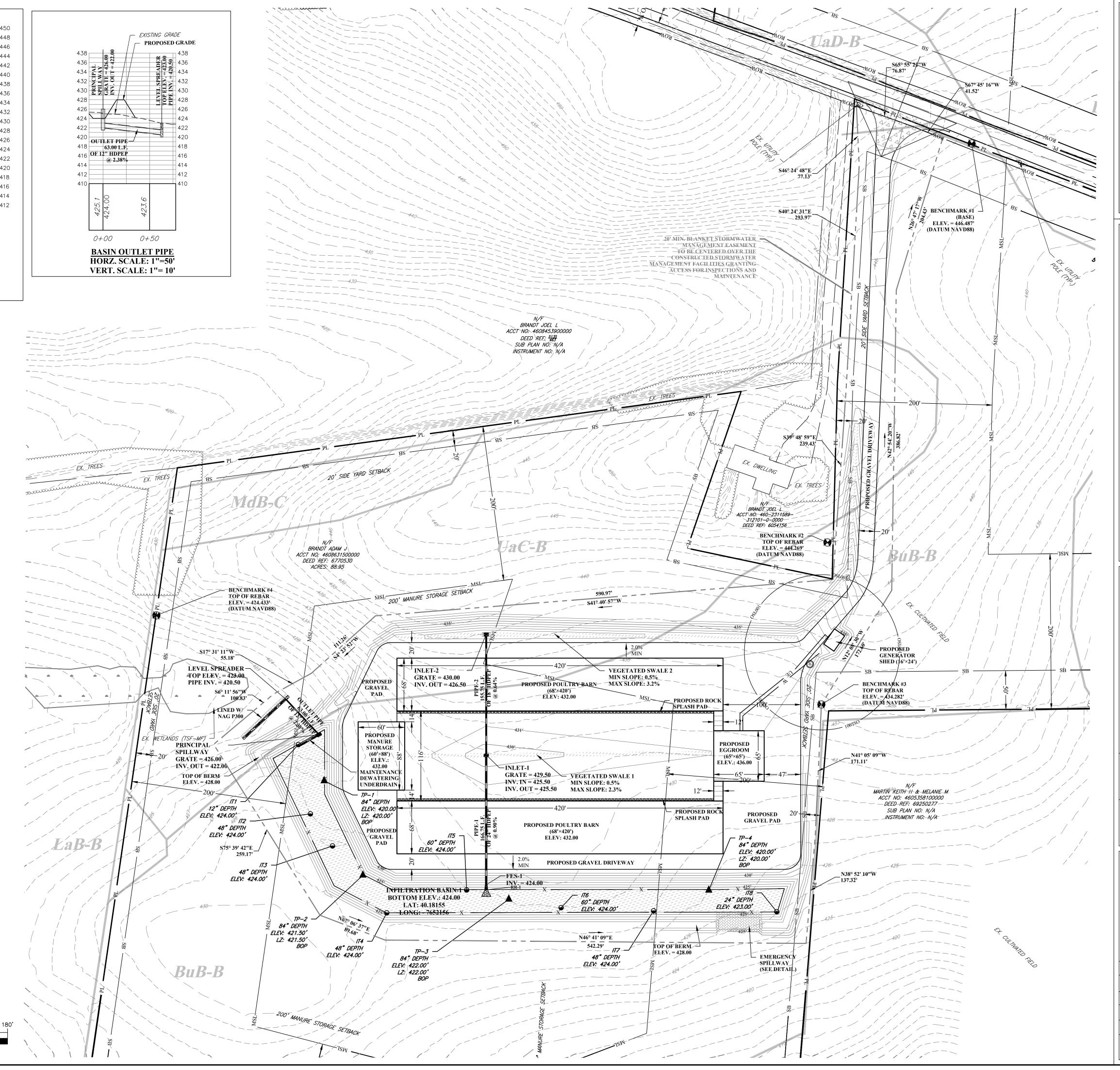
SHEET 6 OF 17 P5 OF 8

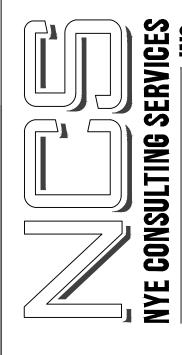
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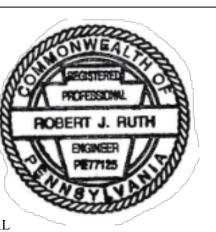
### STORMWATER MANAGEMENT EASEMENT NOTE:

- THE STORMWATER MANAGEMENT EASEMENT IS TO BE RECORDED AS A COVENANT OF THE DEED. IT IS THE OWNER'S RESPONSIBILITY TO MAINTAIN ALL STORMWATER MANAGEMENT FACILITIES SHOWN AND CONSTRUCTED ON THEIR PROPERTY IN CONFORMANCE WITH THE DESIGN CONDITION. THE STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED IN CONFORMANCE WITH THE OPERATIONS AND MAINTENANCE NOTES ON SHEET P1 OF 8 OF PCSM PLAN SET AND RECORDED AT THE LANCASTER COUNTY COURTHOUSE.
- DRAINAGE EASEMENTS SHALL BE PROVIDED WHERE THE CONVEYANCE, TREATMENT, OR STORAGE OF STORMWATER, EITHER EXISTING OR PROPOSED, IS IDENTIFIED ON THE SWM SITE PLAN. DRAINAGE EASEMENTS SHALL BE PROVIDED TO CONTAIN AND CONVEY THE ONE-HUNDRED-YEAR FREQUENCY FLOOD.
- SWM FACILITIES NOT LOCATED WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE CONTAINED IN AND CENTERED WITHIN A MINIMUM TWENTY-FOOT WIDE STORMWATER MANAGEMENT EASEMENT.
- 4. NOTHING SHALL BE PLACED, PLANTED, SET, OR PUT WITHIN THE AREA OF AN EASEMENT THAT WOULD ADVERSLY AFFECT THE FUNCTION OF THE EASEMENT OR CONFLICT WITH THE EASEMENT AGREEMENT.
- 5. THE TOWNSHIP HAS ACCESS TO THIS EASEMENT.





SEMENT



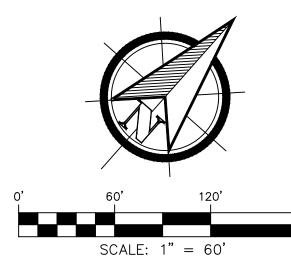
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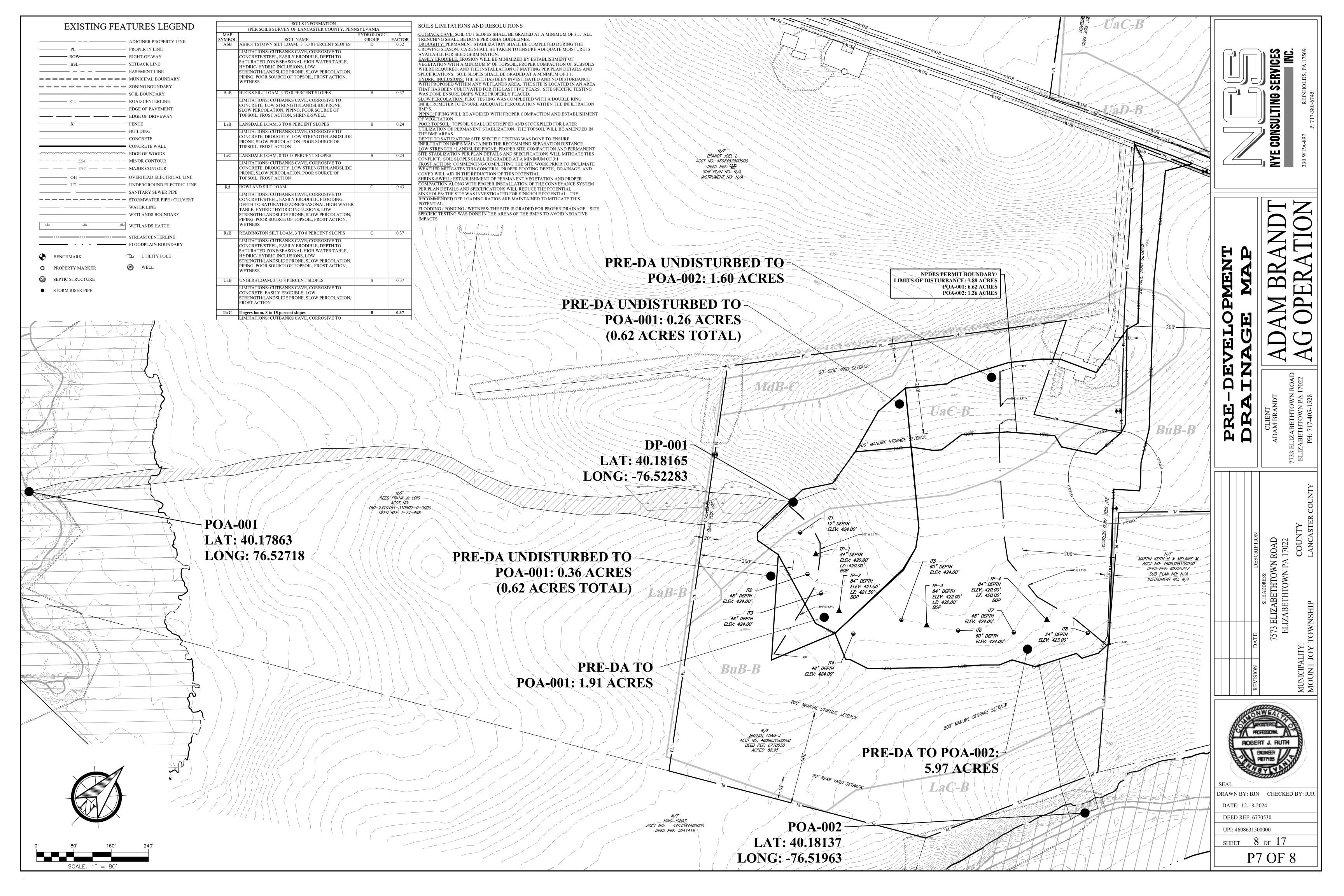
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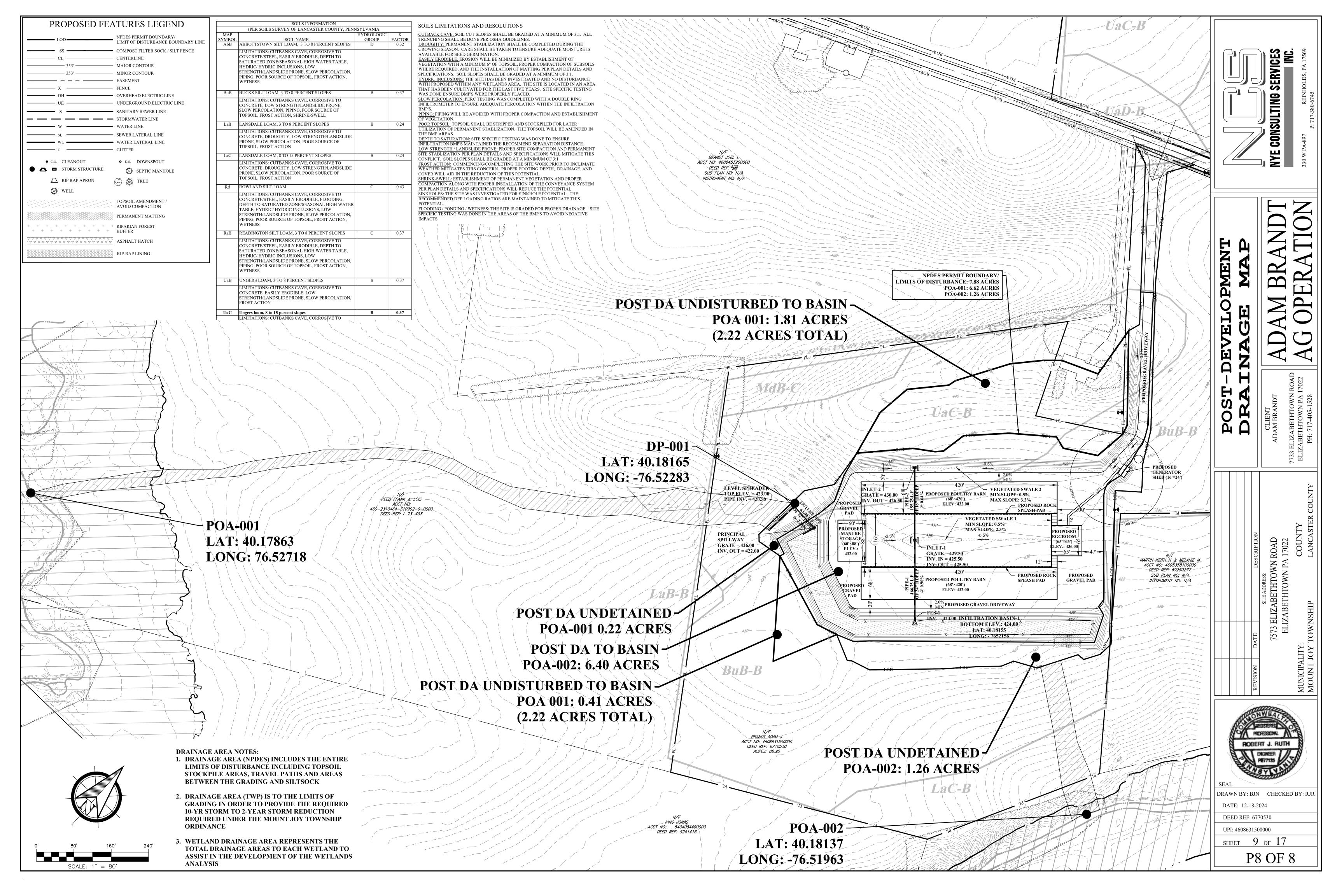
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SHEET 7 OF 17

P6 OF 8







### MUNICIPALITY: MOUNT JOY TOWNSHIP

COUNTY: LANCASTER

IE PROPOSAL IS TO CONSTRUCT A NEW POULTRY OPERATION INCLUSIVE OF TWO POULTRY ARNS (68' X 420'), MANURE STORAGE (60' X 88'), EGG ROOM (65' X 65'), GRAVEL DRIVEWAY, GRAVEL PADS, AND ASSOCIATED STORMWATER MANAGEMENT CONTROLS.

### HE PROJECT IS LOCATED IN EAST MOUNT JOY TOWNSHIP, LANCASTER COUNTY

### PDES PERMIT BOUNDARY / LIMITS OF DISTURBANCE IS 7.88 ACRES

HE PAST AND PRESENT LAND USE HAS BEEN AGRICULTURAL CULTIVATED FIELDS. THE PROPOSED LAND USE WILL BE AGRICULTURAL AND THE COVERAGE WILL CONSIST OF BUILDINGS, GRAVEL, CONCRETE, AND OPEN SPACE.

## COMPOST FILTER SOCK - ABACT PROTECTS DOWNSLOPE AREAS FROM SEDIMENT LADEN

- RUNOFF DURING THE CONSTRUCTION PROCESS ROCK CONSTRUCTION ENTRANCE - MINIMIZE SEDIMENT DEPOSITS ON THE ROADWAY
- CONCRETE WASHOUT ALL CONCRETE WASHWATER SHALL BE COLLECTED IN THE WASHOUT AND RECYCLED PER 25 PA. CODE 260.1 ET SEQ., 271.1 AND 287.1 ET. SEQ **PUMPED WATER FILTER BAG** - TO MANAGE TRENCH OPERATIONS AND MAINTAIN OF
- CONVERT THE BASIN, ABACT DEWATERING WILL BE UTILIZED. SITE PROTECTION - TO PREVENT ACCELERATED EROSION CONDITIONS. THE PROJECT INCLUDES AN EROSION CONTROL BLANKET
- SITE STABILITY TO STABILIZE ALL DISTURBED AREAS, A COMBINATION OF PERMANENT SEEDING AND PAVEMENT/GRAVEL WILL BE EMPLOYED.

INFILTRATION BASIN - THE DESIGNED INFILTRATION BASIN SERVES MULTIPLE PURPOSES: CAPTURING, RETAINING, AND INFILTRATING THE INCREASED VOLUMI RESULTING FROM PROPOSED IMPROVEMENTS. IT CONTRIBUTES TO GROUNDWATER RECHARGE, REDUCES FLOW RATES, MITIGATES THERMAL IMPACTS BY UNDERGROUND WATER INFILTRATION, AND ENHANCES WATER QUALITY

MAINTENANCE OF EACH BMP - INSPECTION SCHEDULE AND LOG INFO: ACH RUNOFF EVENT AND WEEKLY. IMMEDIATE PREVENTIVE AND REMEDIAL WORK. NCLUDING CLEANING. REPAIRING. REPLACING. RE-GRADING. RESEEDING. RE-MULCHING AND RE-NETTING. IS ESSENTIAL. IF THE E&S BMPS DO NOT PERFORM AS EXPECTED. REPLACEMENT BMPS OR MODIFICATIONS WILL BE NECESSARY

COMPREHENSIVE LOG DOCUMENTING INSPECTION DATES FOR EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES (BMPS). ALONG WITH ANY IDENTIFIED DEFICIENCIES AND THE CORRESPONDING CORRECTION DATES, MUST BE KEPT ON-SITE. THIS LOG WILL BE CCESSIBLE TO REGULATORY AGENCY OFFICIALS DURING INSPECTIONS

### E&S PLAN MINIMIZES THE EXTENT AND DURATION OF EARTH DISTURBANCE ) MINIMIZE THE DURATION OF EARTH DISTURBANCE. WE HAVE STRATEGICALLY EOUENCED THE CONSTRUCTION. IMPLEMENTING APPROPRIATE TEMPORARY STABILIZATION

METHODS, NO AREA EXCEEDING 15,000 SOLIARE FEET, INTENDED FOR VEGETATION TABILIZATION. SHOULD REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. FTER CEASING EARTH DISTURBANCE ACTIVITIES IN ANY AREA OR SUBAREA FOR MORE

HAN 4 DAYS. IMMEDIATE STABILIZATION IS REQUIRED. THE SITE MUST BE PROMPTLY EEDED. MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND EDIMENTATION, DURING NON-GERMINATING MONTHS, PROTECTIVE MULCH OR BLANKET PPLICATION FOLLOWS THE PLAN. AREAS NOT AT FINISHED GRADE. TO BE REACTIVATED VITHIN 1 YEAR. MAY FOLLOW TEMPORARY STABILIZATION SPECIFICATIONS. THOSE NOT EACTIVATED WITHIN 1 YEAR MUST ADHERE TO PERMANENT STABILIZATION

LEARING. GRUBBING. AND TOPSOIL STRIPPING ARE LIMITED TO SPECIFIED AREAS IN EACH CONSTRUCTION STAGE, GENERAL SITE CLEARING, GRUBBING, AND TOPSOIL STRIPPING ANNOT BEGIN UNTIL THE E&S BMPS SPECIFIED FOR THAT STAGE ARE INSTALLED AND UNCTIONING AS DESCRIBED IN THE E&S PLAN.

HE ENTIRE LIMIT OF DISTURBANCE BOUNDARY MUST BE CLEARLY MARKED WITH STAKES. FLAGGING. OR ORANGE CONSTRUCTION FENCING BEFORE WORK BEGINS. ALL WORK AND OUIPMENT MUST REMAIN WITHIN THIS BOUNDARY.

E CG-1 IS BEING MET AND DOWNSTREAM WATERCOURSES WILL NOT BE DEGRADED. OMPOST SOCKS ARE INSTALLED ON UNDISTURBED GROUND AND STORMWATER WILL FLOW

### E&S PLAN MINIMIZES SOIL COMPACTION

UNAFFECTED. TO PROTECT INFILTRATION AREAS FROM COMPACTION. COMPOST FILTER OCKS HAVE BEEN INSTALLED AROUND THE SITE PERIMETER. ALL WORK AND EQUIPMENT MUST REMAIN WITHIN THIS DESIGNATED BOUNDAR'S

## GENERATION OF INCREASED STORMWATER RUNOFF

HAN 4 DAYS, IMMEDIATE STABILIZATION IS REQUIRED. DISTURBED AREAS MUST BE ROMPTLY SEEDED, MULCHED, OR OTHERWISE PROTECTED TO PREVENT ACCELERATED ROSION AND SEDIMENTATION UNTIL FUTURE EARTH DISTURBANCE ACTIVITIES OCCUR. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING WILL BE APPLIED AS SPECIFIED. AREAS NOT AT FINISHED GRADE, TO BE REACTIVATED WITHIN 1 YEAR, MAY OLLOW TEMPORARY STABILIZATION SPECIFICATIONS. THOSE NOT REACTIVATED WITHIN 1 YEAR MUST ADHERE TO PERMANENT STABILIZATION SPECIFICATIONS

MINIMIZE INCREASED STORMWATER RUNOFF, THE PROJECT INCLUDES A ROCK ONSTRUCTION ENTRANCE AND COMPOST SOCKS (AS NOTED). ADDITIONALLY, A RATE AND OLUME CONTROL FACILITY WILL FURTHER MITIGATE STORMWATER RUNOFF.

## INTICIPATED CONSTRUCTION WASTES INTICIPATED CONSTRUCTION WASTES ARE NORMAL CONSTRUCTION MATERIALS DURING

RECYCLING OR DISPOSAL OF MATERIALS
ALL BUILDING MATERIALS AND 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

ERE ARE NO KNOWN SOIL CONDITIONS OR GEOLOGIC FORMATIONS WHICH HAVE THE OTENTIAL TO CAUSE POLLUTION AFTER EARTH DISTURBANCE ACTIVITIES ARE COMPLETED. HE SITE IS UNDERLAIN WITH KARST GEOLOGY. DISTURBED AREAS ARE TO BE IMMEDIATELY

### VHERE POTENTIAL FOR POLLUTION IDENTIFIED, MEASURES PROVIDED *OAVOID/MINIMIZE/OR MITIGATI*

- URING THE E&S STAGE, SEVERAL MEASURES ARE IMPLEMENTED TO PREVENT POLLUTION I. A ROCK CONSTRUCTION ENTRANCE ENSURES CONTROLLED SITE ACCESS. . COMPOST SOCKS (AS SPECIFIED) ARE STRATEGICALLY PLACED ON UNDISTURBED GROUND, ALLOWING STORMWATER TO FLOW THROUGH TO VEGETATED AREAS.
- . A CONCRETE WASHOUT AREA MANAGES CONSTRUCTION WASTE 4. A TEMPORARY TOPSOIL STOCKPILE FACILITATES FUTURE SOIL MANAGEMENT
- ADDITIONALLY, A PUMPED WATER FILTER BAG MAY BE UTILIZED. HESE COMBINED EFFORTS MINIMIZE POLLUTION RISKS DURING CONSTRUCTION

UNOFF FROM IMPERVIOUS AREAS WILL FLOW TOWARDS VEGETATED ZONES AND LTIMATELY REACH THE INFILTRATION BASIN, WHERE WATER RETENTION AND NDERGROUND INFILTRATION OCCUR. ADDITIONALLY, RUNOFF WILL BE PIPED NDERGROUND. THE GRAVEL AREAS WILL UNDERGO FILTRATION THROUGH VEGETATED ONES, MINIMIZING THEIR IMPACT. AS RUNOFF LEAVES IMPERVIOUS SURFACES, ITS AMBIENT MPERATURE WILL PROMPTLY DECREASE.

DA-001: SHELLS RUN (TSF-MI POA-002: LITTLE CHIOUES CREEK (TSF-MF)

## E&S SHEET INDEX

- E1 OF 7 E&S PLAN: COVER SHEET AND NOTES E2 OF 7 E&S PLAN: PROJECT AREA MAP
- E3 OF 7 E&S PLAN: CONTROL GRADING PLAN
- E4 OF 7 E&S PLAN: DRAINAGE MAP
- E5 OF 7 E&S PLAN: SITE DETAILS E6 OF 7 E&S PLAN: SITE DETAILS 2
- E7 OF 7 E&S PLAN: SITE DETAILS 3

### EARTH DISTURBANCES: ALL EARTH DISTURBANCES, INCLUDING CLEARING, GRUBBING, CUTS, AND FILLS, MUST BE PERFORMED IN LINE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST ALWAYS BE AVAILABLE AT THE PROJECT SITE. ANY CHANGES TO THE APPROVED PLAN MUST BE NOTIFIED TO THE REVIEWING AGENCY BEFORE IMPLEMENTATION.

### PRECONSTRUCTION MEETING: AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER/OPERATOR SHOULD INVITE ALL RELEVANT PARTIES TO AN ON-SITE PRECONSTRUCTION MEETING. THEY MUST BRING A COPY OF THEIR NPDES PERMIT AND A COPY OF THE STAMPED PLAN TO

NOTIFICATION TO PENNSYLVANIA ONE CALL SYSTEM: AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN UNMARKED AREA, THE PENNSYLVANIA ONE CALL SYSTEM MUST BE NOTIFIED FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

EARTH DISTURBANCE ACTIVITIES: ALL EARTH DISTURBANCE ACTIVITIES MUST PROCEED ACCORDING TO THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. ANY DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY THE LOCAL COUNTY CONSERVATION DISTRICT OR THE DEPARTMENT OF

NOTIFICATION TO DEPARTMENT: UPON INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS BEFORE PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE MUST NOTIFY THE DEPARTMENT OR AUTHORIZED LOCAL COUNTY CONSERVATION DISTRICT

EROSION AND SEDIMENT BMPS: EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS

ENVIRONMENTAL PROTECTION.

AREAS TO BE FILLED: AREAS TO BE FILLED MUST BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.

CLEARING, GRUBBING, AND TOPSOIL STRIPPING: CLEARING, GRUBBING, AND TOPSOIL STRIPPING MUST BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE.

CONSTRUCTION VEHICLES: AT NO TIME SHOULD CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES

LIMITS OF DISTURBANCE: THE LIMITS OF DISTURBANCE (LOD), STREAMS, AND WETLANDS SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES. TOPSOIL: TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHOULD BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE NECESSARY AMOUNT TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION.

EROSION CONTROL BLANKETING: EROSION CONTROL BLANKETING SHOULD BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

FINAL STABILIZATION: AFTER FINAL STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT BMPS.

UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.

BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE OPERATOR MUST ASSURE THAT EACH SPOIL OR BORROW AREA HAS AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT, AND WHICH IS BEING IMPLEMENTED AND MAINTAINED ACCORDING TO CHAPTER 102 REGULATIONS FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS. REGARDLESS OF THEIR LOCATIONS. THE OPERATOR SHALL ALSO NOTIFY THE LOCAL COUNTY CONSERVATION DISTRICT IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS WHEN THEY HAVE BEEN IDENTIFIED.

### CONSTRUCTION SEQUENCE

- HE PROPOSED IMPROVEMENTS ARE CLUSTERED, LEAVING A LARGER PORTION OF THE LAND

  1. PERFORM CONSTRUCTION STAKEOUT AND FIELD MARK ALL E&S CONTROLS AND LIMITS OF DISTURBANCE.
  - INSTALL TEMPORA 3. INSTALL TEMPORARY SILTSOCK PER PLAN SPECIFICATIONS & DETAILS.
  - 4. INITIATE STRIPPING AND STOCKPILING OF TOPSOIL FROM AREAS WHICH ARE TO BE RE-GRADED FOR THE CONSTRUCTION OF THE INFILTRATION BASIN STRIPPING SHALL BE LIMITED TO THOSE AREAS WHICH ARE TO BE IMMEDIATELY RE-GRADED. STOCKPILE EXCESS SOIL AND TOPSOIL IN DESIGNATED AREA . INITIATE ROUGH GRADING FOR INSTALLATION OF INFILTRATION BASIN, VEGETATED SWALE
  - 2, AND PIPES 1, 2. AVOID HEAVY EQUIPMENT WITHIN THE BASIN BOTTOM TO PREVENT COMPACTION. TO THE EXTENT POSSIBLE, DISTURBANCE SHALL BE LIMITED TO THE AREA BEING GRADED AT ANY GIVEN TIME. 6. CRITICAL STAGE INITIATE CONSTRUCTION OF THE INFILTRATION BASIN, VEGETATED SWALE AND PIPES 1 AND 2, AND RIP RAP 1. INSTALL PRINCIPAL SPILLWAY WITH ASSOCIATED
  - OUTLET BARRELL, ANTISEEP COLLARS, FLARED END SECTION, RIP-RAP 1, AND EMERGENCY SPILLWAY. INSTALL BASIN PROTECTION 24" SILTSOCK. INSTALL ASSOCIATED INLET FILTER BAGS AND ROCK FILTERS IN SWALES 1, 2 TO PREVENT SEDIMENT FROM ENTERING THE BASIN. . INITIATE STRIPPING AND STOCKPILING OF TOPSOIL FROM AREAS WHICH ARE TO BE RE-GRADED FOR THE POULTRY BARNS, MANURE STORAGE BUILDING, EGG ROOM, GRAVEL DRIVEWAY, AND ASSOCIATED GRAVEL PADS. STRIPPING SHALL BE LIMITED TO THOSE AREAS WHICH ARE TO BE IMMEDIATELY RE-GRADED. STOCKPILE EXCESS SOIL AND TOPSOIL IN
  - DESIGNATED AREA. . INITIATE ROUGH GRADING FOR INSTALLATION OF POULTRY BARNS, MANURE STORAGE BUILDING, EGG ROOM, GRAVEL DRIVEWAY, AND ASSOCIATED GRAVEL PADS. TO THE EXTENT POSSIBLE, DISTURBANCE SHALL BE LIMITED TO THE AREA BEING GRADED AT ANY GIVEN
  - 9. INSTALL CONCRETE WASTE DISPOSAL AREA PER PLAN DETAILS AND SPECIFICATIONS. 10. INITIATE CONSTRUCTION OF THE POULTRY BARNS, MANURE STORAGE BUILDING, EGG ROOM,
  - GRAVEL DRIVEWAY, AND ASSOCIATED GRAVEL PADS. INSTALL UNDERGROUND UTILITIES INCLUDING WELLS, WATER LATERALS, AND ELECTRIC. 11. COMPLETE THE FINAL GRADING OF THE AREA PER THE SITE PLAN. REMOVE ALL SEDIMENT FROM E&S CONTROLS, INCLUDING ALL SILT SOCKS, AND WORK INTO THE FINAL GRADING.
  - E&S CONTROLS ARE TO REMAIN IN PLACE 12. WHEN FINAL GRADE IS ACHIEVED, PERMANENT VEGETATIVE STABILIZATION SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS. ANY SLOPE EXCEEDING 3:1 SHALL HAVE EROSION CONTROL BLANKET INSTALLED ON THE SLOPE PER PLAN SPECIFICATIONS AND DETAILS.
  - STABILIZE ALL PRIVATE DRIVE, DRIVEWAYS, AND OVERFLOW PARKING AREAS WITH GRAVEL 13. ONCE THE SITE IS STABILIZED PER THE PERMANENT STABILIZATION SPECIFICATIONS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE LANCASTER COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO THE COMMENCEMENT OF PCSM IMPROVEMENTS. PCSM IMPROVEMENTS CAN ONLY COMMENCE ONCE THE LANCASTER COUNTY
  - CONSERVATION DISTRICT HAS BEEN CONTACTED AND THE SITE IS STABILIZED PER THE PERMANENT STABILIZATION SPECIFICATIONS. CRITICAL STAGES 14-18 14. BEGIN EXCAVATION FOR INSTALLATION OF THE PCSM TOPSOIL AMENDMENT WITHIN THE BASIN BOTTOM. AVOID COMPACTION WITHIN THE BASIN BOTTOM. ONCE SUBGRADE IS
  - EXPOSED TREAT BOTTOM FOR COMPACTION PER PLAN DETAILS AND SPECIFICATIONS. 15. PRIOR TO INSTALLING AMENDED TOPSOIL DESIGN ENGINEER TO PERFORM INFILTRATION TESTING TO ENSURE THE BASIN WILL FUNCTION AS DESIGNED
  - 16. INSTALL AMENDED TOPSOIL WITHIN THE BASIN BOTTOM TO THE FINAL DESIGN GRADE PER PLAN DETAILS AND SPECIFICATIONS. 17. INSTALL THE LEVEL SPREADER W/ NAG P300 LINED BERM PER PLAN DETAILS AND
  - 18. PERMANENTLY STABILIZE ANY AREAS NOT FULLY ESTABLISHED WITH VEGETATION. 19. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALI CONTACT THE LANCASTERCOUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO THE REMOVAL OF THE TEMPORARY BMPS.
  - 20. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, REMOVAL OF ALL TEMPORARY BMPS AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS. THE OWNER AND/OPERATORS SHALL CONTACT THE LANCASTERCOUNTY CONSERVATION DISTRICT FOR A

### MANAGEMENT PRACTICES (BMPS) ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED. REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED. ONLY AFTER DISTURBED AREAS ARE STABILIZED WITH A 70% UNIFORM PERENNIAL GROWTH

6. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED, AS WELL AS ANY DEFICIENCIES FOUND, AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON

STORMWATER INLETS, WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, MUST

# EROSION AND SEDIMENTATION CONTROL PLAN ADAM BRANDT AG OPERATION

## MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

**STABILIZATION NOTES:** 

MULCHING TO DETERMINE THE PROPER SOIL AMENDMENTS AND APPLICATION RATES

B. ALL GRADING AND TILLING OPERATIONS ARE TO BE COMPLETED AT RIGHT

3-5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS.

THE DISTURBED AREA TO A DEPTH OF 4-8 INCHES MINIMUM – 2 INCHES ON FILL

THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED

C. GRADED AREA SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF

D. BEFORE SEEDING BEGINS. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS

E. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN

OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION

G. APPLY LIME AS SPECIFIED UNDER SOIL CONDITIONING AND FERTILIZATION. APPLY

FERTILIZER AS SPECIFIED. (NOTE - THE ACTUAL PH OF THE SOIL SHALL BE TESTED

1. FERTILIZATION – THE FOLLOWING SHALL BE SPREAD AND WORKED INTO TOPSOIL

· 10-10-10 FERTILIZER: 500 LBS. PER ACRE, 12.5 LBS. 1,000 SQ. FT. OR 100 LBS. PER

2. TEMPORARY SEEDING (OR MULCHING IN WINTER) SHALL BE DONE IMMEDIATELY.

AUGUST 15 AT RATE OF 55 LBS PER ACRE, WINTER RYE - SEPTEMBER 15 TO OCTOBER

15 AT RATE OF 168 LBS, PER ACRE, APPLY SEED UNIFORMLY, OCTOBER 15 - MARCH 1,

PERMANENT SEEDING - THE DISTURBED AREAS, DRAINAGE CHANNELS AND SWALES

I. FERTILIZATION - THE FOLLOWING SHALL BE SPREAD AND WORKED INTO TOPSOIL

AGRICULTURAL LIME: 6 TONS PER ACRE, 240 LB. PER 1,000 SQ. FT. OR 2,480 LB. PER

A. GRASS SEEDING - KY 31 TALL FESCUE 88%: REDTOP 12% - 2 LBS. PER 1.000 SO. FT

WATERED REGULARLY, SEEDING DATES MAY BE EXTENDED FROM JUNE 15 TO

APPLY FROM APRIL 1 TO JUNE 15 OR AUGUST 15 – OCTOBER 1. WHEN SEEDINGS ARE

JGUST 15. APPLY SEED UNIFORMLY BY BROADCASTING, HYDRAULIC APPLICATION

ALL SEEDED AREAS SHOULD BE MULCHED OR BLANKETED TO MINIMIZE POTENTIAL

1 STRAW - 3 TONS PER ACRES 140 LBS PER 1 000 SO FT OR 1 240 LBS PER 1 000 SO YD

3. WOOD CHIPS – 4-6 TONS PER ACRE. 185-275 LBS. PER 1,000 SQ.FT. OR 1,650-2,500 LBS.

IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3

MACHINERY SHOULD BE OPERATED ON THE CONTOUR. NOTE: CRIMPING OF HAY OR

APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A

INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3J:1V. THE

STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID

SOIL TEMPERATURE HIGHER THAN 45°F ARE TYPICALLY REQUIRED. APPLICATION

SHOULD GENERALLY BE HEAVIEST AT EDGES OF SEEDED AREAS AND AT CRESTS OF

MULCH IS SPREAD OR SPRAYED INTO THE MULCH AS IT IS BEING BLOWN ONTO THE

SOIL. APPLYING STRAW AND BINDER TOGETHER IS GENERALLY MORE EFFECTIVE

SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN

OR ANTICIPATED, A MINIMUM OF 4" OF CRUSHED STONE SHALL BE PLACED WITHIN

IMMEDIATELY AFTER EACH RAINFALL EVENT FOR DAMAGE, UNTIL THE MULCHING I

NO LONGER NECESSARY FOR PROTECTION AGAINST EROSION. DAMAGED PORTIONS

YARDS

YARDS

THE AFFECTED AREA AND MAINTAINED UNTIL PERMANENT STABILIZATION IS

EARTHWORK QUANTITIES

1.47

RATIO

IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL

ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

- RIDGES AND BANKS TO PREVENT LOSS BY WIND. THE REMAINDER OF THE AREA

2. HAY – 3 TONS PER ACRES, 140 LBS. PER 1,000 SQ.FT. OR 1,240 LBS. PER SQ.YD. -

PER 1,000 SQ. YD. – MAY PREVENT GERMINATION OF GRASSES AND LEGUMES.

STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY

AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN

POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO

TIMOTHY, MIXED CLOVER AND TIMOTHY, OR OTHER NATIVE FORAGE GRASSES

– EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN

2. PERMANENT SEEDING SHALL BE DONE IMMEDIATELY.

COVER GRASS WITH 1/4" OF SOIL AND STRAW MULCH.

DISTURBED AREAS IN NON-GERMINATING SEASONS.

MULCHES SHOULD BE APPLIED AS FOLLOWS:

FOR FAILURE TO ESTABLISH ADEQUATE VEGETATIVE COVER.

MULCHING SPECIFICATIONS

10-20-20 FERTILIZER: 1,000 LB. PER ACRE, 25 LB. PER 1,000 SQ. FT OR 210 LB. PER 1,000

SQ. FT. ANNUAL RYE GRASS - MARCH 1 TO JUNE 15, SUDAN GRASS - MAY 15 TO

USE 2 IN. OF MULCH AS GROUND COVER OVER WINTER. MULCH WITH STRAW

· AGRICULTURAL LIME: 1 TON PER ACRE, 40 LBS. PER 1,000 SQ.FT. OR 410 LBS. PER 1,000

THE ENTIRE AREA DISTURBED BY THE WORK OF THIS PROJECT, EXCEPT WHERE

FOR THE PROPER APPLICATION OF FERTILIZER TO BE APPLIED TO ENSURE

## GENERAL EROSION AND SEDIMENT CONTROL PLAN NOTES

COVER SEEDING:

ANGLES TO THE SLOPE

FOR PROPOSED SEED MIXTURES.

WHEREVER POSSIBLE PRIOR TO SEEDING

NOTED, SHALL BE SEEDED AS FOLLOWS:

TO A DEPTH OF 3 TO 4 INCHES:

H. APPLY SEED AS SPECIFIED UNDER SEEDING

GERMINATION OF SEED BASED ON FIELD CONDITIONS).

A. COMPLETE GRADING AND EROSION CONTROL MEASURES.

GENERAL EROSION AND SEDIMENT CONTROL PLAN NOTES 1. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C. PROTECTION OF STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102 EROSION CONTROL. MULCHED.

2. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL IT IS RECOMMENDED THAT SOIL TESTING BE DONE PRIOR TO SEEDING AND PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.

3. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF SITE PREPARATION THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS

4. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE REVIEWING AGENCY, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS. REGARDLESS

5. BEFORE INITIATING ANY REVISIONS TO THE EROSION AND SEDIMENT CONTROL PLAN OR PREPARATION REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED

F. COMPACTED SOILS SHOULD BE SCARIFIED 6-12 INCHES ALONG CONTOUR E&S CONTROL PLAN. THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM 6. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE

PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. DISCHARGE POINTS SHOULD BE ESTABLISHED TO PROVIDE FOR MAXIMUM DISTANCE TO ACTIVE WATERWAYS. 7. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN

ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR THE SUBSURFACE DRAIN OR 8. CONCRETE WASHOUT SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN

DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS. CONCRETE WASHOUT MUST BE A MINIMUM OF 50 FEET FROM DRAINS, DITCHES AND WATERWAYS ON A MAXIMUM SLOPE OF 2%. MATERIAL MUST BE REMOVED WHEN IT REACHES 75% OF TOTAL STORAGE AND LINERS MUST BE REPLACED WITH EACH CLEANING

9. STAGNANT WATER: PA CODE TITLE 25 ENVIRONMENTAL PROTECTION, CHAPTER 243. NUISANCES, SECTION 243.12 STAGNANT WATER STATES: A PERSON MAY NOT MAINTAIN OR

A. SEEDING (TEMPORARY) - ACCORDING TO SEASON, AT RATE OF ONE (1) LB. 1,000 PERMIT TO BE MAINTAINED, A POND, PRIVY VAULT, CESSPOOL, WELL, CISTERN, RAIN BARREL OR OTHER RECEPTACLE CONTAINING WATER UNLESS THE RECEPTACLE IS CONSTRUCTED OR MAINTAINED IN A MANNER TO PREVENT THE BREEDING OF MOSQUITOES. [25 PA. CODE § 102.11(A)(1)]

### OPERATION AND MAINTENANCE

SHALL BE PERMANENTLY SEEDED (STABILIZED) AS FOLLOWS: ALL WASTES REMOVED FROM BMPS MUST BE HANDLED PROPERLY. PLASTICS AND PAPER ITEMS CAN BE RECYCLED. LAWN/YARD WASTE CAN BE PLACED WITH A COMPOST CENTER TO BE MADE INTO COMPOST OR MULCH.

SEDIMENT REMOVED FROM BMPS CAN BE SPREAD ON SITE AND IMMEDIATELY STABILIZED BY ADDING SEED AND STRAW SO IT CAN BE INCORPORATED INTO THE SOIL STRUCTURE. FIND SOURCE OF SEDIMENT POLLUTION AND STABILIZE IMMEDIATELY.

### OIL AND OTHER DEBRIS SHOULD BE DISPOSED OF PER ENVIRONMENTAL LAWS

MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BMPS AFTER EACH MAJOR RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING. RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF THE BMPS FAI INSTALLED WILL BE REQUIRED.

A LOG SHOWING DATES THAT BMPS WERE INSPECTED. AS WELL AS ANY DEFICIENCIES FOUND, AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF THE

PLEASE NOTE – IF AFTER PERFORMING MAINTENANCE ROUTINES, THE FOLLOWING DO NOT MULCHING MAY ALSO BE USED AS A TEMPORARY STABILIZATION OF SOME OPERATE PROPERLY, CONTACT DESIGN ENGINEER.

## FACILITY MAINTENANCE REQUIREMENTS

DRIVEWAY/PARKING AREAS · INSPECT REGULARLY FOR OIL AND DEBRIS ACCUMULATION.

· MOW REGULARLY (WEEKLY). INSPECT GRASS AREAS REGULARLY (WEEKLY) FOR GARBAGE/OTHER DEBRIS; REMOVE AS ENCOUNTERED. MAINTAIN EXISTING VEGETATION. 4. HYDROMULCH - 1 TON PER ACRE, 47 LBS. PER 1,000 SQ.FT. OR 415 LBS. PER SQ.YD. RE-VEGETATE ANY BARE SPOTS AS SOON AS POSSIBLE

## SOIL RESTORATION

MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (> 1 INCH RAINFALL DEPTH): · INSPECT AND CORRECT EROSION PROBLEMS AND DAMAGE TO VEGETATION  $\cdot$  ENSURE THAT SOIL IS COVERED WITH VEGETATION OR MULCH TO PROTECT FROM

SOIL RESTORATION MAY BE REQUIRED IF EROSION IS SIGNIFICANT.

## MAINTENANCE:

1. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN SHOULD HAVE BINDER APPLIED UNIFORMLY. BINDERS MAY BE APPLIED AFTER RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

2. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH MANNER DESCRIBED IN THIS PLAN. REMOVAL CAN BE COMPLETED THROUGH USE OF MECHANICAL OR HAND TOOLS. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.

3. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. THE SEDIMENT TRAPPING CONTROLS, AS MAY BE SHOWN, SHALL BE CLEANED OUT AS PER THE CORRESPONDING DETAIL. SEDIMENT SHALL WHERE EXCESSIVE SOIL EROSION, TRACKING OR FLOWING OF SEDIMENT IS EVIDENT BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.

4. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR MAINTENANCE - MULCHED AREAS SHALL BE CHECKED PERIODICALLY AND SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR REGIONAL OFFICE OF THE DEPARTMENT. STOCKPILES OF THE MULCH OR TIE DOWN/MATERIAL SHALL BE REPAIRED AS SOON AS OF WOOD CHIPS, HAY BALES, CRUSHED STONE OR OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS WITH EROSION.

5. UNTIL THE SITE ACHIEVES FINAL STABILIZATION, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. THE OPERATOR SHALL ASSURE THAT THE BEST SHALL TEMPORARY EROSION AND SEDIMENTATION CONTROL STRUCTURES BE REMOVED

THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF

BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED.

ANALYTICAL TESTING.

OF THE PROPERTY RECEIVING THE FILL.

ALL BUILDING MATERIALS AND 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 SEO., 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

BORROW/WASTE AREAS/FILL 1. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

2. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO

3. IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM ANOTHER SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH PERMITTEE A. CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK STONE. DREDGED MATERIAL. USED ASPHALT. AND BRICK. BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE) B. CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL OUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS FOR REGULATED. SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1R FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL." ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO OUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER

C. ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT OUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIOUES, INCLUDING, BUT NOT LIMITED TO. VISUAL PROPERTY INSPECTIONS. ELECTRONIC DATA BASE SEARCHES REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY SANBORN MAPS. ENVIRONMENTAL OUESTIONNAIRES. TRANSACTION SCREENS ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS ANALYTICAL TESTING IS NOT A REOUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASI OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE. IT MUST BE TESTED TO DETERMINE I IT OUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL". FILI MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH TH DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE

4. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES

9 INCHES IN THICKNESS

5. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED

6. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE

7. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD

OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS. 8. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

9. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENTS SHALL BE COMPACTED IN MAXIMUM 8" LAYERED LIFTS AT 95% DENSITY.

## TEMPORARY AND PERMANENT STABILIZATION

1. EROSION AND SEDIMENT CONTROL BMPS SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED AND PCSM BMPS ARE OPERATIONAL. THE CONTRACTOR SHALL ALSO IMMEDIATELY STABILIZE DISTURBED AREAS UPON COMPLETETION OR TEMPORARY CESSATION OF EARTH DISTURBANCE ACTIVITY.

2. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES — 6 TO 12 INCHES ON COMPACTED SOILS – PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL

3. IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND

4. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES. DURING NON-GERMINATING MONTHS. MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS

5%. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT A 5. HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE. STRAW MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.

6. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL ACHIEVED. CRUSHED STONE SHALL CONFORM TO AASTO DESIGNATION M43. SIZE NO. 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

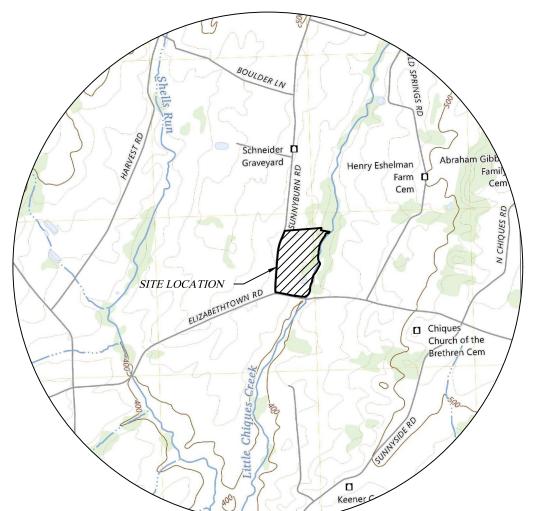
> 7. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.

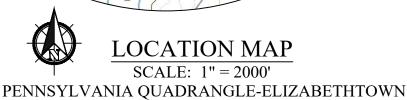
DIVERSION CHANNELS, SEDIMENTATION BASINS, SEDIMENT TRAPS AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.

## CONSTRUCTION WASTE NOTES:

- 1. EARTH MOVING (CUT/FILL) IS ASSUMED TO BE BALANCED, EXCESS TOPSOIL WILL
- BE DISTRIBUTED IN SWALES, EMBANKMENTS, AND BASINS. GRAVEL WILL BE IMPORTED FOR THE ROAD SURFACE MATERIAL MAY BE IMPORTED FOR SOIL AMENDMENT
- SEE STANDARD EROSION AND SEDIMENT CONTROL NOTES FOR DISPOSAL OF

4. BASIC CONSTRUCTION BUILDING MATERIAL WASTE IS ASSOCIATED WITH THIS





### NPDES PERMIT FOR CONSTRUCTION ACTIVITY NOTES

 THE PERMITTEE AND THE CO-PERMITTEE MUST ENSURE THAT VISUAL SITE INSPECTIONS OF BMP'S ARE CONDUCTED WEEKLY AS WELL AS AFTER EACH PRECIPITATION EVENT. THE NSPECTOR MUST BE OUALIFIED AND A WRITTEN ACCOUNT OF THE INSPECTIONS AND THE CORRECTIVE ACTION TAKEN MUST BE KEPT

2. WHEN BMP'S ARE FOUND TO BE INOPERATIVE OR HAVE FAILED THE PERMITTEE OR CO-PERMITTEE SHALL CONTACT THE PERMIT ISSUING AGENCY IMMEDIATELY. THIS CONTACT WILL BE FOLLOWED BY A WRITTEN REPORT WITHIN 5 DAYS.

ALL MONITORING RECORDS SHALL BE KEPT FOR A PERIOD OF 3 YEARS FROM THE DATE

4. ALL REASONABLE STEPS WILL BE TAKEN TO PREVENT OR MINIMIZE ANY DISCHARGES WHICH HAVE THE REASONABLE LIKELIHOOD OF EFFECTING HUMAN HEALTH OR THE

5. UPON REDUCTION OF EFFECTIVENESS OR FAILURE OF A BMP IMMEDIATE ACTION WILL BE TAKEN TO RESTORE THE BMP TO NORMAL OPERATION. IF THIS CANNOT BE DONE THEN AN ALTERNATE BMP WILL BE EMPLOYED AND THE PERMIT ISSUING AGENCY CONTACTED. 6. ALL PERMITTEES AND CO-PERMITTEES WILL COMPLY WITH THE TERMS AND CONDITIONS

. THE OWNER OR OPERATOR OF THIS FACILITY COVERED BY THE PERMIT SHALL MAKE THE PLANS AVAILABLE TO THE PUBLIC IF REQUESTED. EROSION AND SEDIMENTATION

ACTION. THE PERMITTEES COULD BE SUBJECT TO CRIMINAL AND/OR CIVIL PENALTIES FOR

OF THE NPDES PERMIT. ANY NON-COMPLIANCE MAY BE GROUNDS FOR ENFORCEMENT

3. THE STAGING OF EARTHMOVING AND MAINTENANCE REQUIREMENTS CONTAINED IN THIS PLAN MUST BE FOLLOWED UNLESS AMENDED AND APPROVED BY THE LANCASTER

9. ALL BUILDING MATERIALS AND WASTE MUST BE REMOVED FROM THE SITE AND

CONTROL PLANS MUST BE AVAILABLE AT THE SITE AT ALL TIMES.

REGULATIONS. NO MATERIAL MAY BE BURIED, DUMPED OR DISCHARGED ON SITE. 10. THE LANCASTER COUNTY CONSERVATION DISTRICT SHALL BE CONTACTED AT LEAST SEVEN (7) DAYS PRIOR TO THE START OF CONSTRUCTION TO SCHEDULE A

BY THE LANCASTER COUNTY CONSERVATION DISTRICT PRIOR TO THEIR USE. AREAS THAT ARE OUTSIDE OF THE ORIGINAL PERMIT BOUNDARIES OR NOT COVERED BY ANOTHER NPDES PERMIT WILL BE CONSIDERED A MAJOR REVISION TO THE PERMIT.

11. ALL BORROW AND SPOIL AREAS SHALL HAVE AN EROSION CONTROL PLAN APPROVED

12. SHOULD THERE BE ADDITIONAL PHASES TO THE PROJECT EACH PHASE SHALL HAVE AN EROSION CONTROL PLAN APPROVED BY THE LANCASTER COUNTY CONSERVATION DISTRICT PRIOR TO THE START OF CONSTRUCTION OF THAT PHASE.

13. ALL EARTHMOVERS SHALL BE ADDED TO THE NPDES PERMIT AS PERMITTEES OR

CO-PERMITTEES PRIOR TO EARTHMOVING. 14. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID

REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE

ONLY DURING THE GERMINATING SEASON. 14. THE LANCASTER COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED BY SUBMISSION OF A TRANSFER FORM OF ANY CHANGES IN OWNERSHIP WITHIN 30 DAYS.

SUBMITTED TO THE LANCASTER COUNTY CONSERVATION DISTRICT

16. THE PERMITTEE SHALL FURNISH PROOF OF THE INSTALLATION OF THE POST CONSTRUCTION STORMWATER MANAGEMENT FACILITIES, IF REQUESTED BY DEP OR THE LANCASTER COUNTY CONSERVATION DISTRICT

17. THE PERMITTEE AND CO-PERMITTEE MAY BE SUBJECT TO CRIMINAL AND/OR CIVIL

PENALTIES FOR VIOLATIONS OF THE TERMS AND CONDITIONS OF THIS GENERAL PERMIT

UNDER SECTION 602 AND 605 OF THE CLEAN STREAMS LAW, 35 P.S. SECTIONS 691.602 AND

15. UPON COMPLETION OF THE PROJECT A NOTICE OF TERMINATION (NOT) SHALL BE

691.605, AND UNDER THE CLEAN WATER ACT AS SPECIFIED IN 40 C.F.R. SECTIONS 122.41(A)(2) AND (3), WHICH ARE INCORPORATED BY REFERENCE. 18. AUTHORIZED REPRESENTATIVES OF THE LANCASTER COUNTY CONSERVATION DISTRICT

OR OTHER AGENCIES, AS NOTED IN THE NPDES PERMIT, HAVE THE RIGHT OF ENTRY TO THE CONSTRUCTION SITE AS DEFINED IN PART 2, SECTION B, PARAGRAPH H. 19. A PREPAREDNESS, PREVENTION AND CONTINGENCY PLAN (PPC) SHALL BE AVAILABLE AT THE SITE AT ALL TIMES.

## SEED APPLICATION RATES STANDARD WORKSHEET 21

	(TEMPORARY)
SPECIES:	ANNUAL RYEGRAS
% PURE LIVE SEED:	95%
APPLICATION RATE:	175 LB. / ACRE
FERTILIZER TYPE:	10-10-10 (X-X-X)
FERTILIZER APPLICATION RATI	E: 500 LB. / ACRE
LIMING RATE:	1.0 T. / ACRE
MULCH TYPE:	STRAW OR HAY
MULCHING RATE:	3.0 T. / ACRE

RATE OF ANCHOR MATERIAL APPLICATION:

(I ERIVIAIVEIVI)					
OPSOIL PLACEMENT DEPTH:	6.0 INCH				
SPECIES:	55% TALL FESCUE / 19% HARD FESCUE / 10% SWITCHGRASS / 10% PERENNIAL RYE GRASS / 6% WHITE CLOVER				
% PURE LIVE SEED:	95%				
APPLICATION RATE:	150 LB. / ACRE				
FERTILIZER TYPE:	10-20-20 (X-X-X)				
RTILIZER APPLICATION RATE:	500 LB. / ACRE				
LIMING RATE:	6.0 T. / ACRE				
MULCH TYPE:	STRAW				
MULCHING RATE:	3.0 T. / ACRE				
ANCHOR MATERIAL:	TACKIFIER				
ANCHORING METHOD:	SPRAVSLURRV				

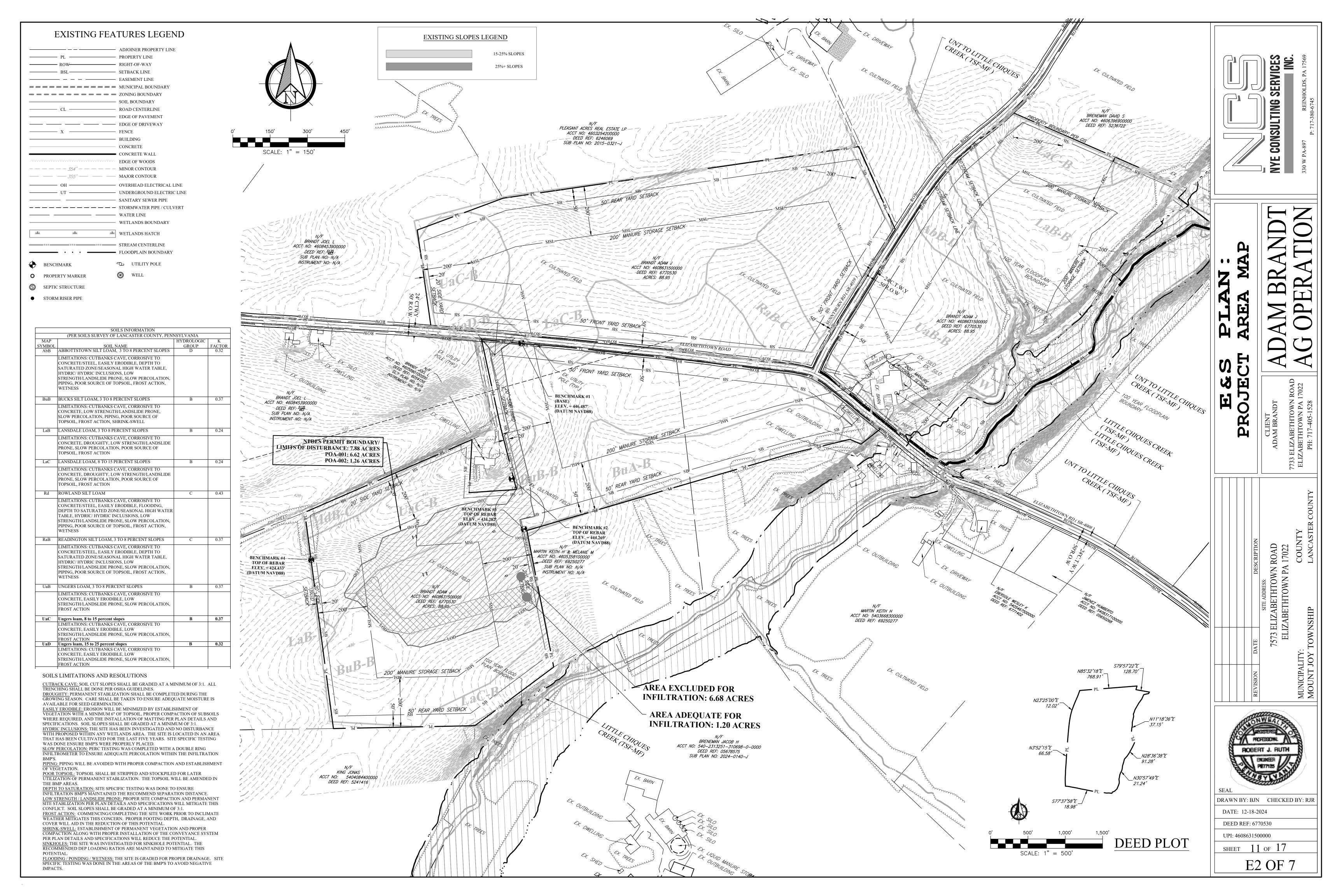
100 LB. / ACRE

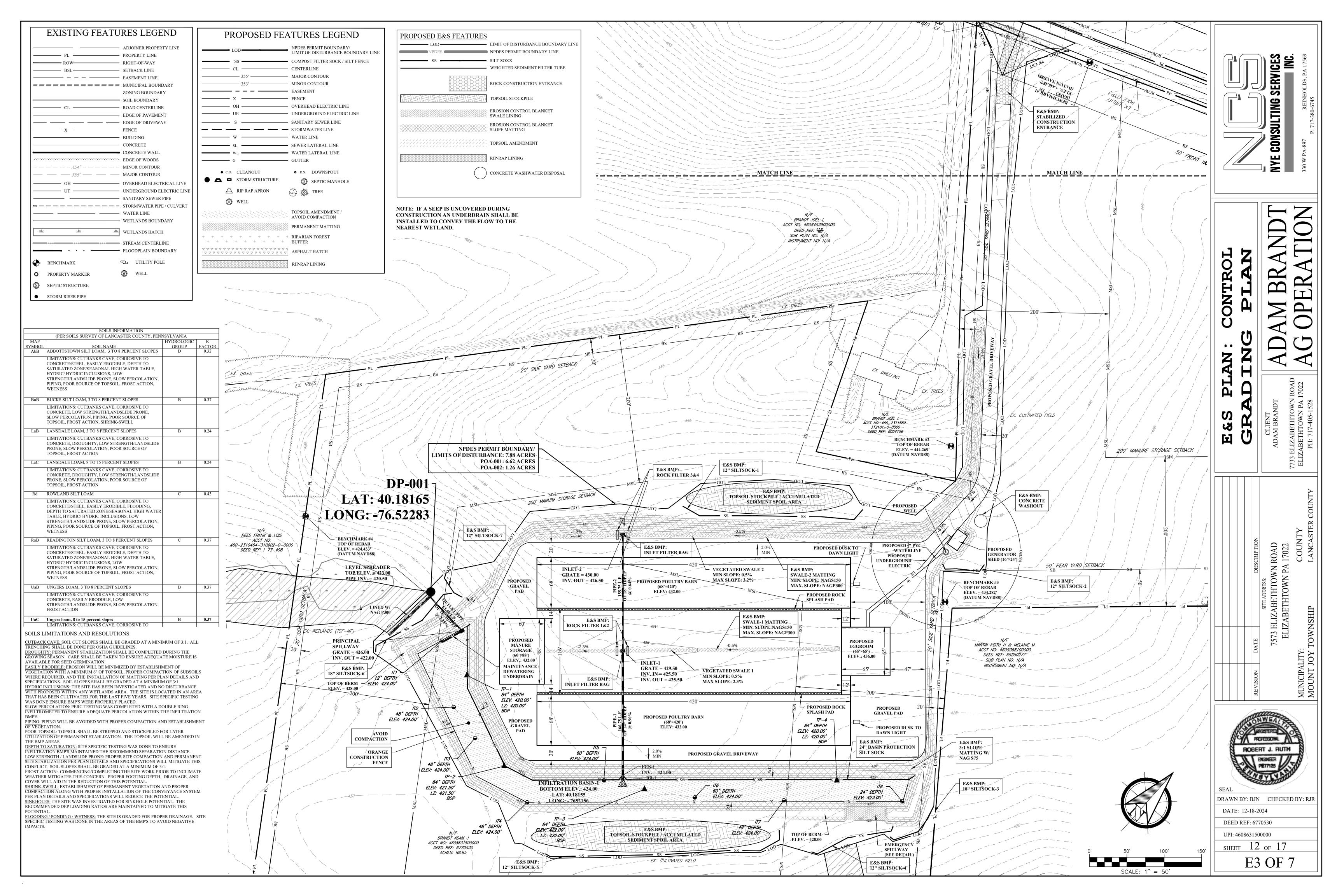


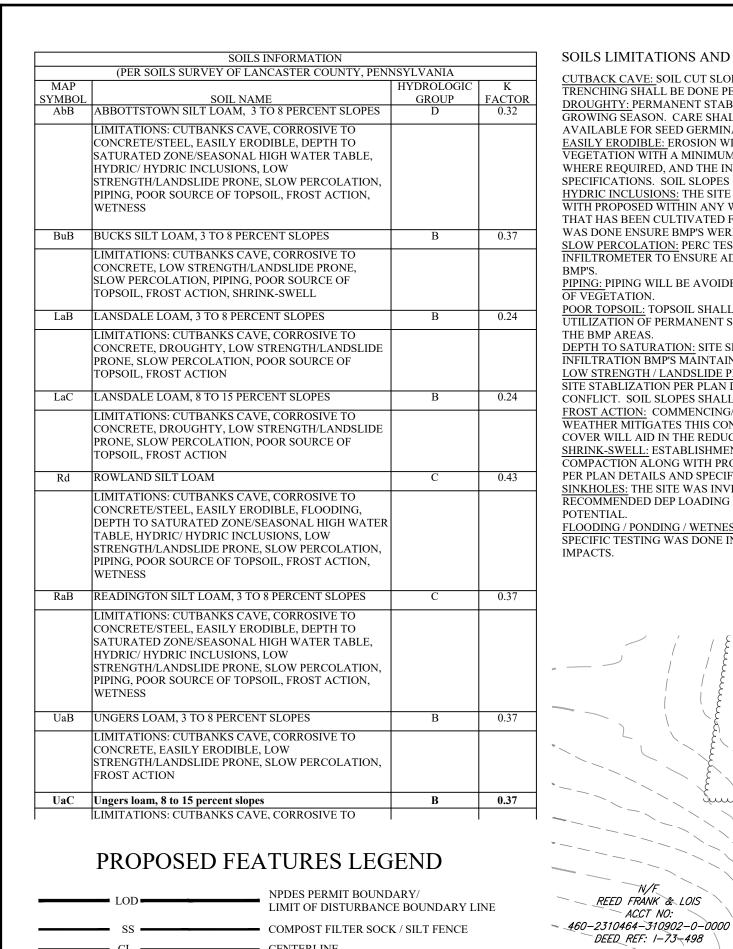
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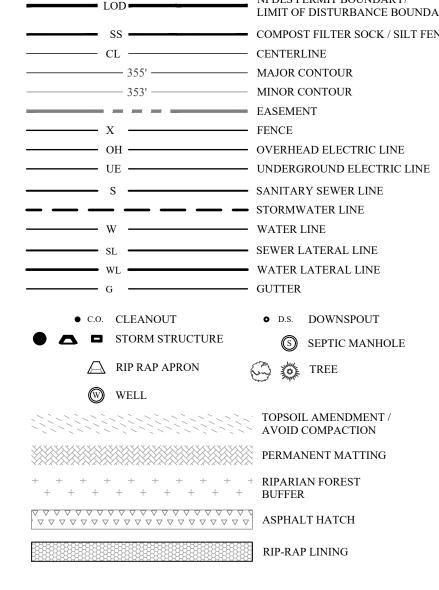
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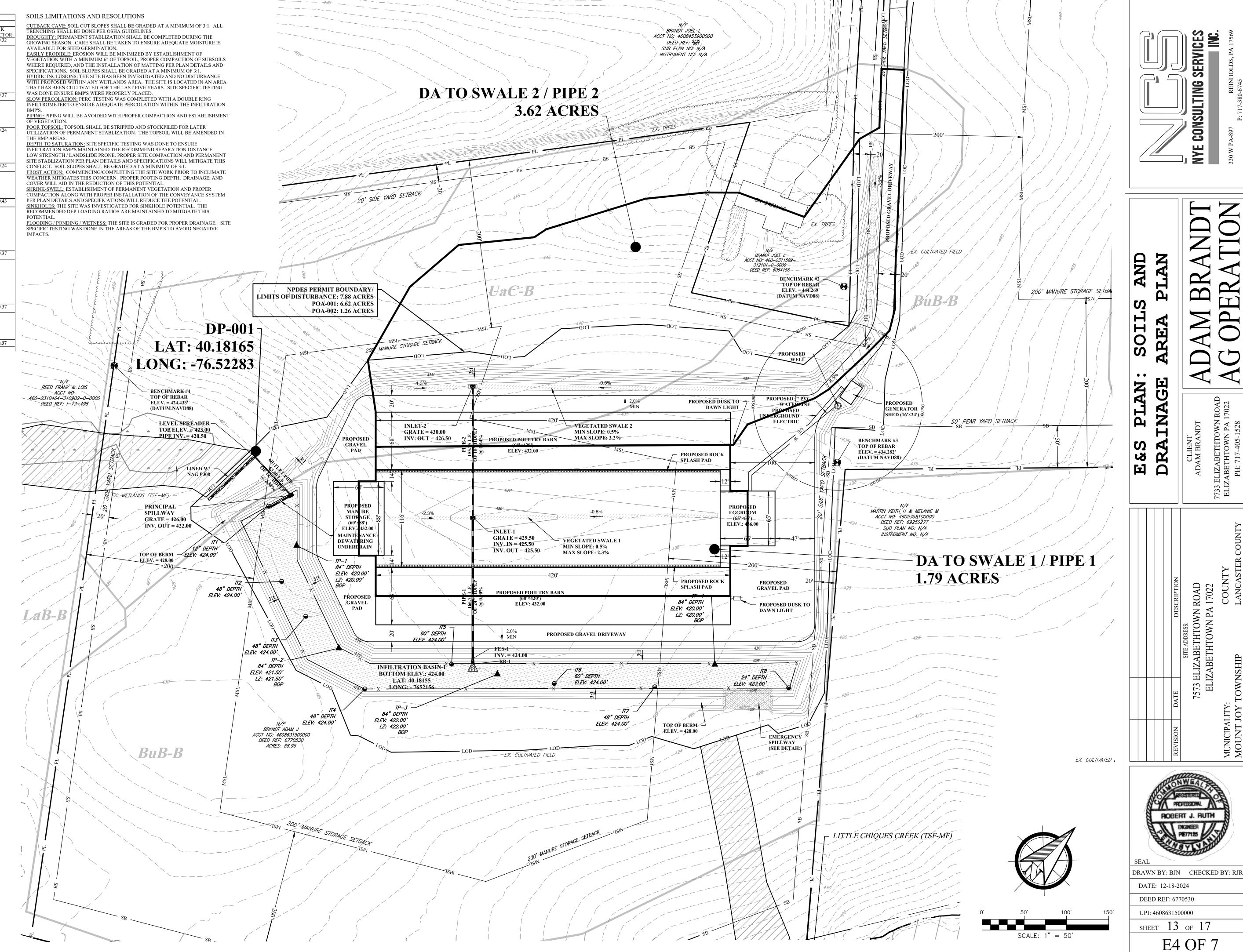








DRAINAGE AREA BOUNDARY



SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

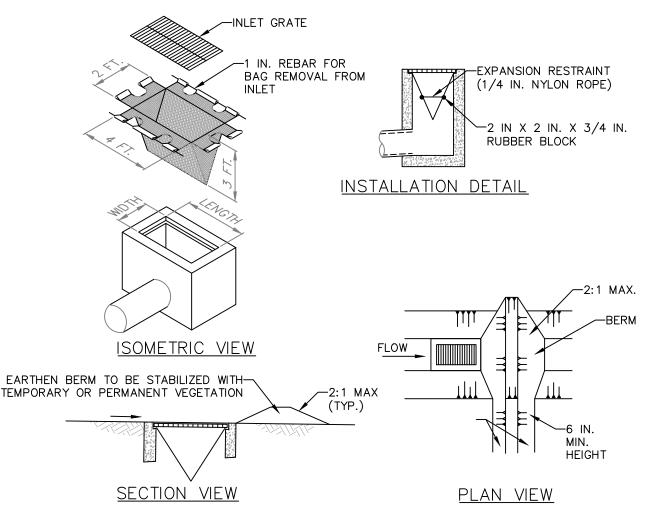
THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

### EROSION CONTROL BLANKET INSTALLATION

STANDARD CONSTRUCTION DETAIL #11-1

IMPERVIOUS SECTION A-A GEO MEMBRANE LINER 2" x 2" x 36" WOODEN STAKES PLACED 5' O.C



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR

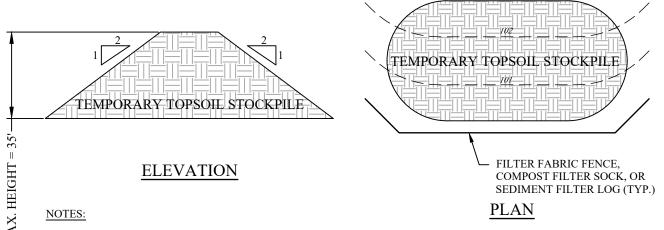
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

### STANDARD CONSTRUCTION DETAIL #4-16 FILTER BAG INLET PROTECTION - TYPE M INLET

NOT TO SCALE



TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION.

STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET IN HEIGHT. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER. STOCKPILE AREAS SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE SEDIMENT BARRIER PROTECTION BMP'S, SUCH AS FILTER FABRIC FENCE, COMPOST FILTER SOCK OR SEDIMENT FILTER LOGS, SHALL BE MAINTAINED IN ACCORDANCE WITH THE PLAN DETAILS AND SPECIFICATIONS.

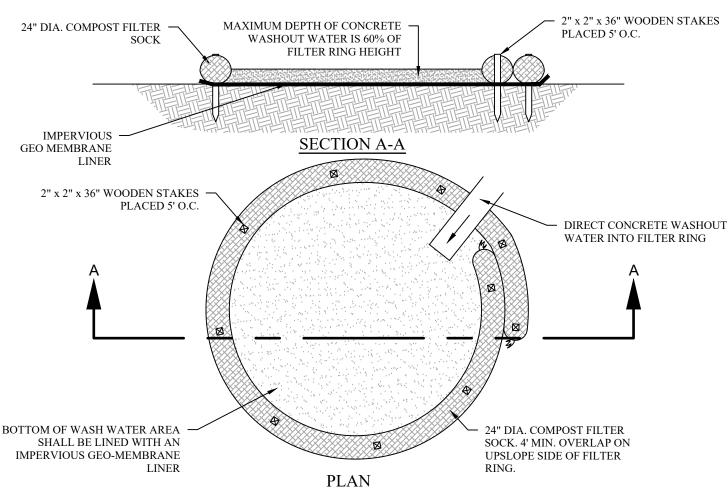
ALL STOCKPILE SEDIMENT BARRIER PROTECTION BMP'S SHALL REMAIN IN PLACE UNTIL TOPSOIL STOCKPILE AREAS HAVE

STOCKPILE SEDIMENT BARRIER PROTECTION BMP'S SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SEDIMENT BARRIERS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS, PLAN DETAILS AND SPECIFICATIONS, OR REPLACED WITHIN 24 HOURS OF INSPECTION.

TOPSOII. STOCKPILE AREAS WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS

### TEMPORARY TOPSOIL STOCKPILE

NOT TO SCALE



1 INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE

2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE SOCKS IN PYRAMIDAL CINFIGURATION FOR ADDED HEIGHT. 3. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUND WATER SYSTEMS. 4. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS. 5. DISPOSAL AREA SHALL BE ADEQUATELY SIZED PER CONTRACTOR ACCORDING TO ACCOMMODATE THE ESTIMATE OF VOLUME NEEDS

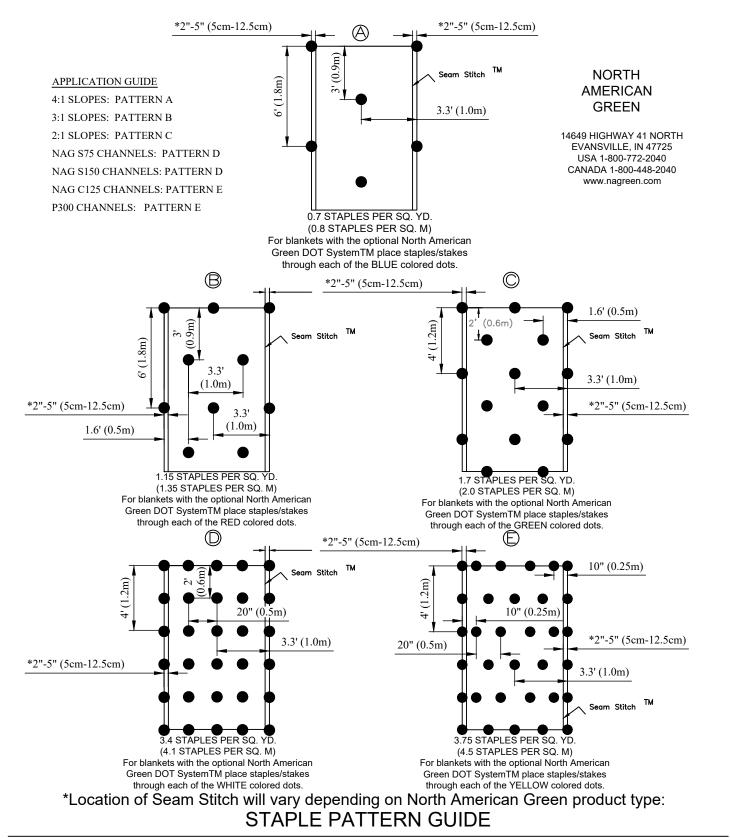
NOT TO SCALE

INSPECT FILTER SOCK AND GEOMEMBRANE FOR DAMAGE FROM CONSTRUCTION ACTIVIES PRIOR TO EACH CONCRETE POUR. ANY DAMAGE MUST BE ADEQUATELY REMEDIATED TO ENSURE NO WASH WATER ENTERS SURFACE WATERS OR GROUND WATER.

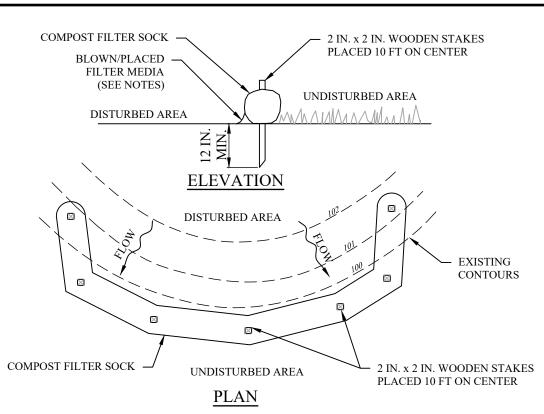
DISPOSE OF WASTE MATERIAL IN BETWEEN POURS. MATERIAL SHALL BE HAULED TO APPROVED RECYCLING/DISPOSAL LOCATIONS OFF

## FILTER SOCK CONCRETE WASH WATER DISPOSAL AREA

NOT TO SCALE



NOT TO SCALE



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE, BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

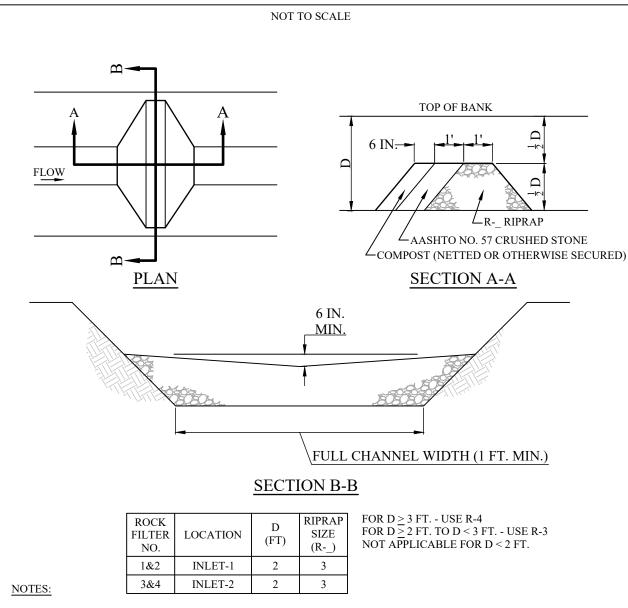
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT. THE E&S MANUAL CALLS FOR COMPOST TO BE PLACED IN FRONT OF THE SOCK. THE DESIGN ENGINEER HAS NO OBJECTION TO ELIMINATING THIS REQUIREMENT. THE CONTRACTOR SHOULD SEEK APPROVAL OF THE CONSERVATION DISTRICT IN PRIOR TO ELIMINATING THIS REQUIREMENT.

TABLE 4.1 COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS							
MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MIL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMEN T POLYPROPYLENE (HDMFPP)		
MATERIAL CHARACTERISTICS	PHOTO - DEGRADABLE	PHOTO - DEGRADABLE	BIO - PHOTO - DEGRADABLE DEGRADABLE		PHOTO - DEGRADABLE		
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32" 12" 18" 24" 32"		12" 18" 24" 32"		
MESH OPENING	3/8"	3/8"	3/8" 3/8" 3/8"		1/8"		
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI		
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.		
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	6 MONTHS 1 YEAR			
		TWO-PLY S	SYSTEMS	•			
HDPE BIAXIAL NET							
DINIED CONTAINMEN	IT NETTING	CONTINUOUSLY WOUND					
INNER CONTAINMEN	II NEITING	FUSION WELDED JUNCTURES					
		3/4" X 3/4" MAX. APERTURE SIZE					
OUTER FILTRATION MESH		COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)					
		3/16" MAX. APERTURE SIZE					
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.							

TABLE 4.2: COMPOST STANDARDS					
ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)				
ORGANIC PORTION	FIBROUS & ELONGATED				
pН	5.5 - 8.0				
MOISTURE CONTENT	35% - 55%				
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN				
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAX				

## COMPOST FILTER SOCK-ABACT STANDARD CONSTRUCTION DETAIL #4-1

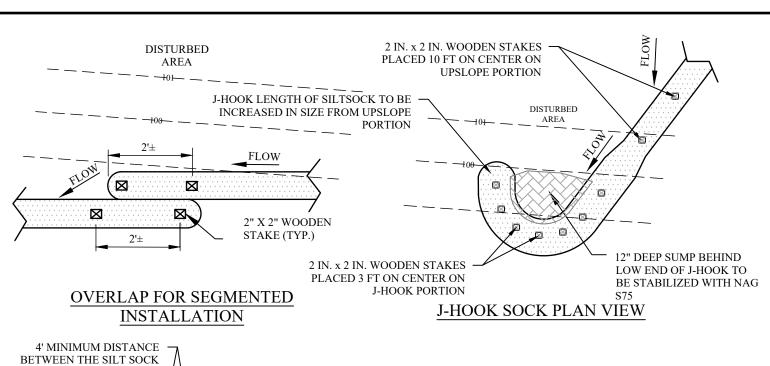


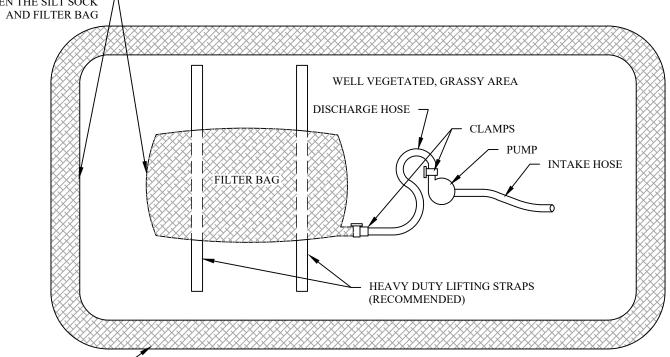
SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTERS IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER.

AND STABILIZE DISTURBED AREAS.

ROCK FILTER

NOT TO SCALE STANDARD CONSTRUCTION DETAIL #4-14





PLACE 18" SILTSOCK AROUND FILTER BAG FOR ABACT BMP FILTER BAG WELL VEGETATED, GRASSY AREA

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD	
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN	
GRAB TENSILE	ASTM D-4632	205 LB	
PUNCTURE	ASTM D-4833	110 LB	
MULLEN BURST	ASTM D-3786	350 PSI	
UV RESISTANCE	ASTM D-4355	70%	
AOS % RETAINED	ASTM D-4751	80 SIEVE	

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE

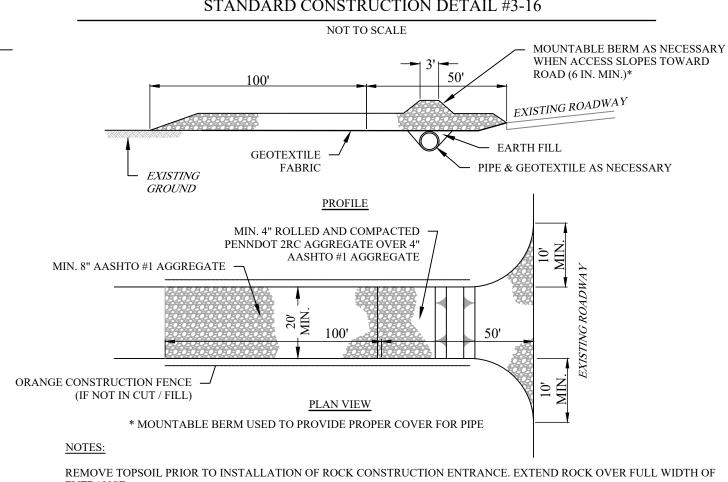
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

### PUMPED WATER FILTER BAG-ABACT STANDARD CONSTRUCTION DETAIL #3-16



RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS

SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED 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. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. II EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY. EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE

## ROCK CONSTRUCTION ENTRANCE STANDARD CONSTRUCTION DETAIL #3-1

NOT TO SCALE

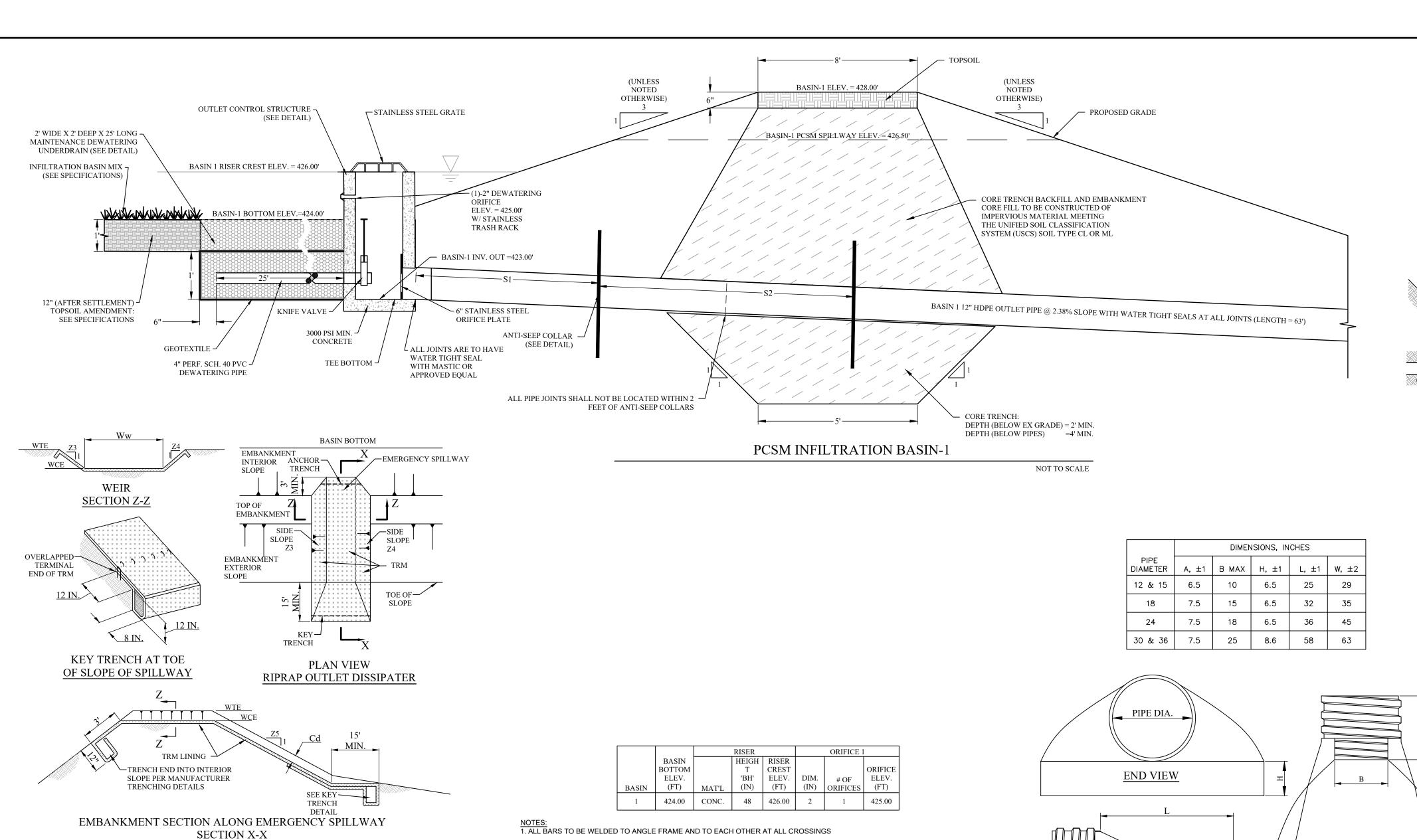


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2. ENTIRE UNIT TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.

4'-9 1/4"

4'-9 1/4"

3'-9 1/4"

OUTLET CONTROL STRUCTURE

3" GRID MADE

WITH #4 BARS

'A 4 . ' A

(TYP.)

ATTACHED

STEEL ANCHOR

BOLTS (4 REQ.)

4"  $X_{\frac{1}{4}}$ " STEEL PLATE

MANUFACTURER MONARCH PRODUCTS, INC.

YORK HAVEN, PA 17370

ATTACHED TO CONCRETE WITH -

STAINLESS STEEL WASHERS &

3/8" X 3" STAINLESS STEEL

ANCHOR BOLTS (4 REQ.),

2" X 2" ANGLE STEEL BAR

ATTACHED TO CONCRETE WITH

STAINLESS STEEL WASHERS &

3/8" X 3" STAINLESS STEEL

ANCHOR BOLTS (4 REQ.),

NUTS

(OR APPROVED EQUAL)

385 SWIPE ROAD

717-938-8303

CONCRETE WITH  $\frac{1}{2}$ " X 6"

DEPTH

NOT TO SCALE

NOT TO SCALE

WIDTH

HEAVY EQUIPMENT SHALL NOT CROSS OVER SPILLWAY WITHOUT PRECAUTIONS TAKEN TO PROTECT TRM LINING.

PCSM: EMERGENCY SPILLWAY WITH TRM

LINING

DISPLACED LINER WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.

STAPLE

PATTERN (FT)

TYPE

60 NAG P300

FIRST

S1

(FT)

10.00

COLLARS

2.00

COLLAR

COLLAR

(FT)

8.00

ELEV

WTE

428.00

PROVIDE—

WATERTIGHT

CONNECTION

PIPE SIZE

(IN)

12

NOTES:

1. ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.

2. COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE

3. ALL COLLARS SHALL NOT BE LOCATED CLOSER THAN 2 FEET TO ANY PIPE JOINT.

STANDARD CONSTRUCTION DETAIL #7-16

CONCRETE ANTI-SEEP COLLAR FOR

PERMANENT BASINS OR TRAPS

12 IN. THICK (MIN.)

CAST-IN-PLACE OR PRECAST

CONCRETE COLLAR (MIN. 2000

BASIN

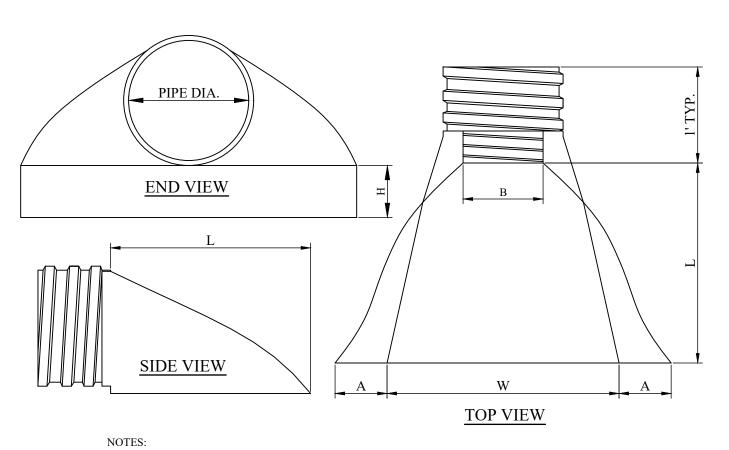
OR TRAP NO.

ELEV

WCE

(FT)

426.50



1. FLARED END SECTIONS WILL BE CONSTRUCTED OUT OF HDPE TO MATCH THE PIPE MATERIAL. FLARED END SECTION

PLAN VIEW SECTION Y-Y SECTION Z-Z

		RIPRAP		APRON			
OUTLET D NO. I	PIPE DIA Pd (IN)	SIZE R	THICK. Rt (IN)	LENGTH Al (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)	
RR-1	24	R-4	18	12	6	18	

— 6" GRID MADE WITH

STEEL BARS (TYP.)

RISER CREST ELEV.

ORIFICE 1 ELEV.

W/ TRASHRACK

BASIN BOTTOM

24" X 24" MIN. STAINLES

NOT TO SCALE

STEEL PLATE WITH 6"

ELEV.

ORIFICE

- 1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
- 2. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT, DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY

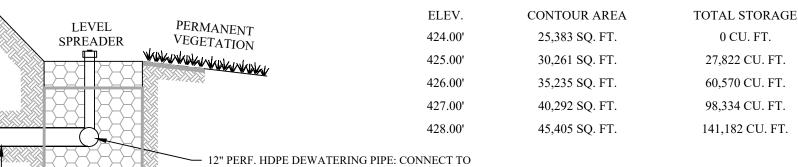
RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL STANDARD CONSTRUCTION DETAIL #9-1

NOT TO SCALE

### NOTES:

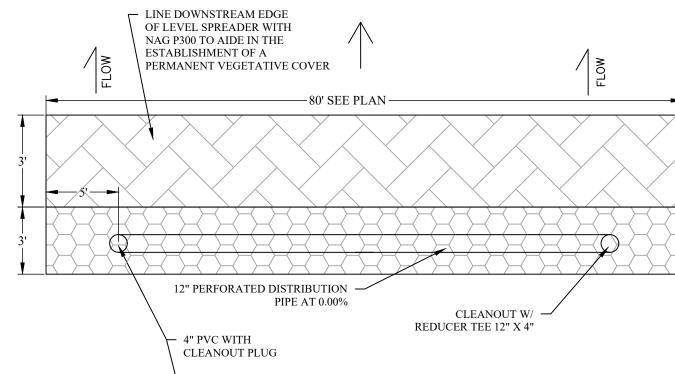
- INFILTRATION BASINS SHALL BE KEPT FREE OF ALL TRASH, CONCRETE WASH WATER, AND OTHER DEBRIS THAT POSE THE POTENTIAL FOR POLLUTION TO WATERS OF THE COMMONWEALTH.
- 2. INFILTRATION BASINS MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES.
- BASIN EMBANKMENTS SHALL BE CONSTRUCTED OF CLEAN FILL CONSISTING OF UNCONTAMINATED, NON-WATER SOLUBLE, NON-COMPOSTABLE, INERT, SOLID MATERIAL. THIS INCLUDES SOIL, ROCK, STONE, OR FRACTURED SHALE WHICH CAN BE COMPACTED. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF RUBBISH, ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, STONES GREATER THAN SIX INCHES, FROZEN MATERIAL, AND OTHER OBJECTIONABLE MATERIALS.
- THE EMBANKMENTS/CLAY CORE SHALL BE COMPACTED BY SHEEPSFOOT OR PADFOOT ROLLER. THE LOOSE LIFT THICKNESS SHALL BE NINE INCHES OR LESS, DEPENDING ON THE ROLLER SIZE, AND THE MAXIMUM PARTICLE SIZE IS SIX INCHES OR LESS 2/3 OF THE LIFT THICKNESS. FIVE PASSES OF THE COMPACTING EQUIPMENT OVER THE ENTIRE SURFACE OF EACH LIFT IS REQUIRED. EMBANKMENT COMPACTION TO VISIBLE NONMOVEMENT IS ALSO REQUIRED.
- 5. ALL JOINTS ARE TO BE WATERTIGHT SEALS WITH MASTIC OR APPROVED EQUAL
- 6. ANTI-SEEP COLLARS SHALL NOT BE LOCATED WITHIN 2 FEET OF A PIPE JOINT.

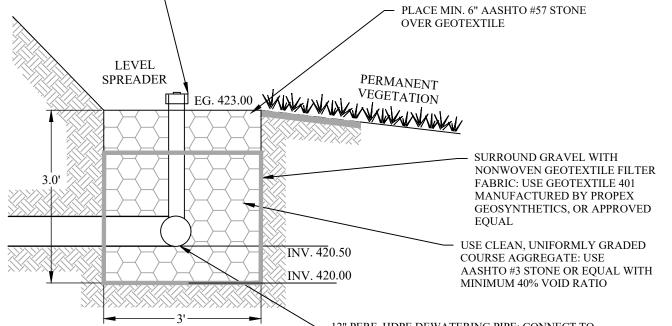
### INFILTRATION BASIN-1 - STAGE STORAGE



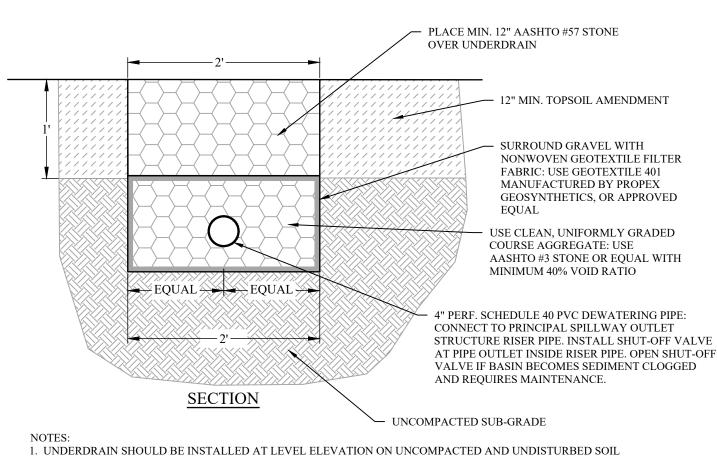
- 12" BASIN OUTLET PIPE

BASIN OUTLET PIPE





## LEVEL SPREADER - BASIN-1 OUTLET

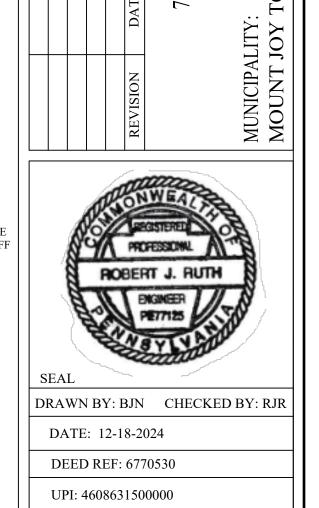


AT LOCATIONS AS SHOWN ON PLAN.

- 2. WRAP UNDERDRAIN IN NON-WOVEN GEOTEXTILE MATERIAL.
- 3. PLACE A MINIMUM OF 12" OF AASHTO #57 STONE OVER UNDERDRAIN.
- 4. INSTALL 4" PERFORATED SCHEDULE 40 PVC DEWATERING PIPE IN UNDERDRAIN.
- 5. CONNECT TO PRINCIPAL SPILLWAY OUTLET STRUCTURE RISER PIPE. INSTALL SHUT-OFF VALVE AT PIPE OUTLET INSIDE RISER PIPE. OPEN SHUT-OFF VALVE IF BASIN BECOMES SEDIMENT CLOGGED AND REQUIRES MAINTENANCE.

## PCSM MAINTENANCE DEWATERING TRENCH

NOT TO SCALE



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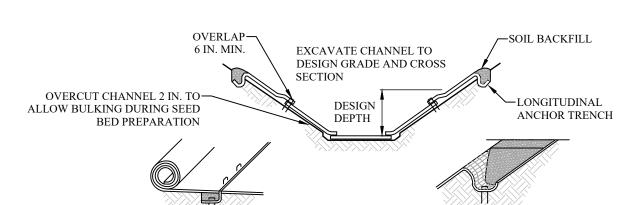
S

ISULTING

12" PERF. HDPE DEWATERING PIPE: CONNECT TO BASIN OUTLET PIPE DISSIPATER NOTES: I. DISSIPATER SHOULD BE INSTALLED AT LEVEL ELEVATION ON UNCOMPACTED AND UNDISTURBED SOIL AT LOCATIONS AS SHOWN ON PLAN. 2. WRAP LEVEL SPREADER IN NON-WOVEN GEOTEXTILE MATERIAL 3. PLACE A MINIMUM OF 6" OF AASHTO #57 STONE OVER GEOTEXTILE. 4. INSTALL 12" PERFORATED HDPE DEWATERING PIPE AT 0.00% IN DISSIPATER. 5. INSTALL CLEANOUT AND CAP

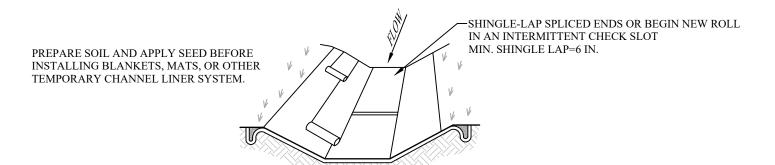
NOT TO SCALE

CHANNEL ID.	BOTTOM WIDTH B (FT)	PROPOSED DEPTH	REQ. DEPTH D (FT)	Z1 (FT)	Z2 (FT)	TEMPORARY LINING *	PERMANENT LINING
SWALE-1 MIN.	5	2	1.49	3	3	NAG S150	VEG. CLASS C
SWALE-1 MAX.	5	2	1.49	3	3	NAG S150	VEG. CLASS C
SWALE-2MIN.	5	2	1.70	3	3	NAG S150	VEG. CLASS C
SWALE-2 MAX.	5	2	1.06	3	3	NAG S150	VEG. CLASS C

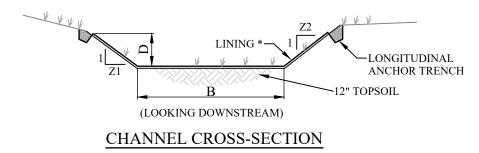


**INTERMITTENT CHECK SLOT** 

LONGITUDINAL ANCHOR TRENCH



### ISOMETRIC VIEW



\* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

NOTES:

1. ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS

2. CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER

DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

3. PERMANENT LINING (CLASS C) SHALL BE A PERMANENT GRASS SEEDING MIXTURE AND BE MAINTAINED AT A 6" TO 12" STAND.

## CHANNEL

## STANDARD CONSTRUCTION DETAIL #6-1

NOT TO SCALE

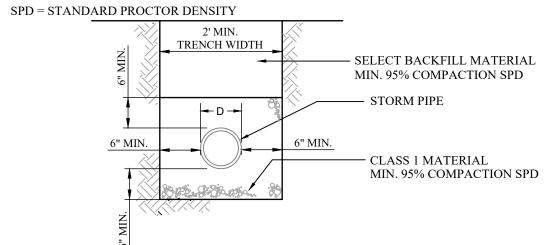
### CLASSIFICATION OF MATERIALS:

CLASS 1 - THIS MATERIAL SHALL CONSIST OF 2A COARSE AGGREGATE OR 2 RC STONE FREE OF SLAG, EXCEPT IN WET OR UNSTABLE AREAS WHERE THE BEDDING MAY BE NO. 8 OR NO. 57 COARSE AGGREGATE. ALL MATERIALS SHALL CONFORM TO PennDOT PUBLICATION 408, SECTION 703.3.

NOTES: - BACKFILL IS TO BE MECHANICALLY TAMPED IN 6" LAYERS.

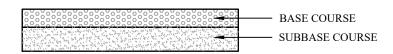
BACKFILL MATERIAL SHALL BE FREE OF LARGE (NOT EXCEEDING SIX INCHES IN ANY DIMENSION), OBJECTIONABLE, OR DETRITUS MATERIAL. SELECT NON-AGGREGATE MATERIAL SHOULD BE INDIGENOUS TO THE SURROUNDING MATERIAL FOR NON-VEHICULAR AREAS.

D = OUTSIDE DIAMETER OF PIPE



### TRENCH DETAIL

NOT TO SCALE



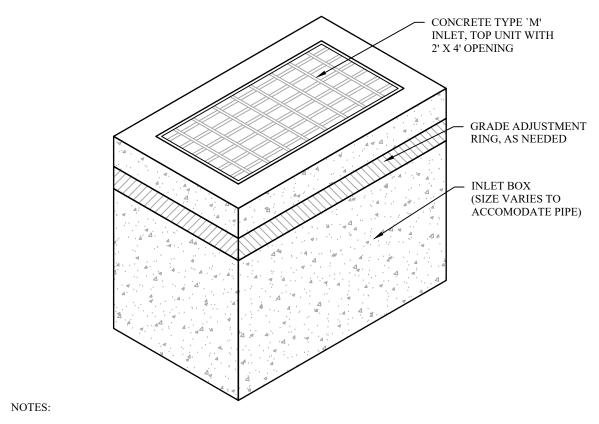
### NOTES:

- 1. BASE COURSE SHALL BE STONE AGGREGATE MATERIAL CONSISTING OF 8 INCHES OF COMPACTED 2A MODIFIED AND SHALL BE COMPACTED TO THE REQUIRED DEPTH WITH A VIBRATING ROLLER.
- 2. SUBBASE SHALL BE COMPACTED WITH A VIBRATING ROLLER PRIOR TO APPLYING THE BASE COURSE.

**SECTION** 

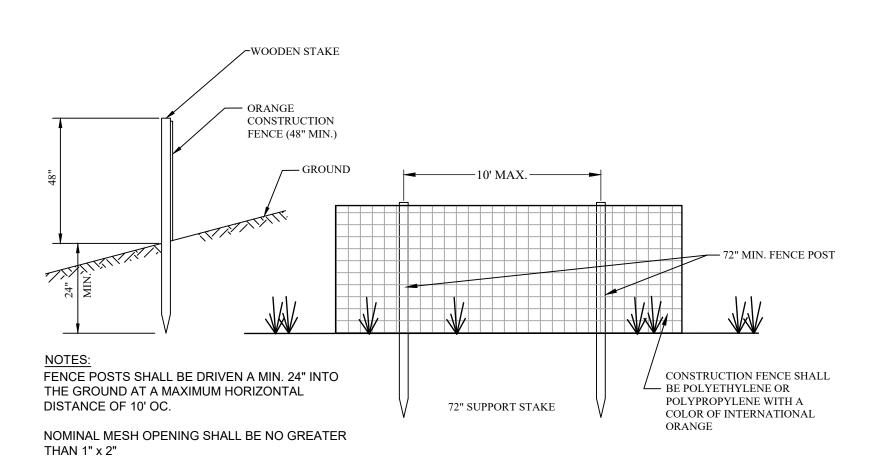
### DRIVEWAY

NOT TO SCALE



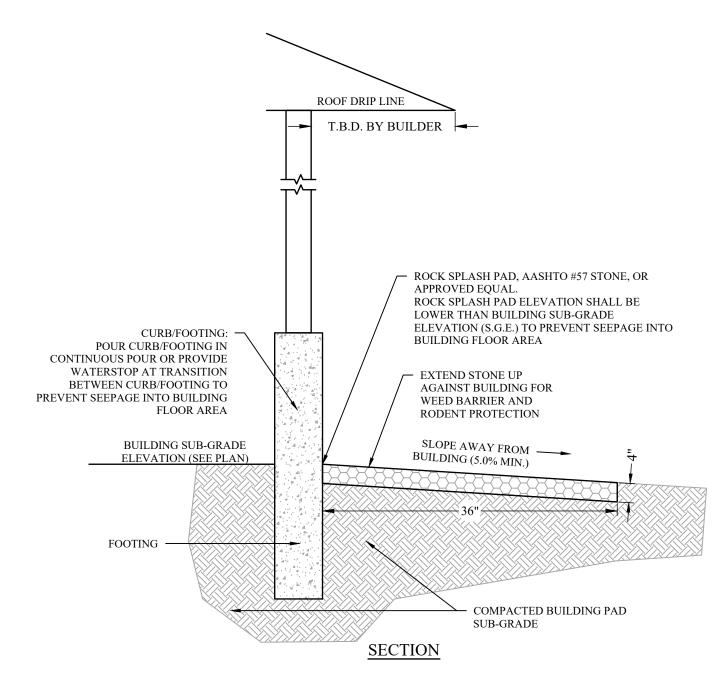
- 1. MATERIAL AND CONSTRUCTION TO BE BASED ON PENNDOT STANDARDS.
- 2. ALL JOINTS ARE TO BE WATERTIGHT SEALED WITH MASTIC OR APPROVED EQUAL.

## TYPE M INLET



## ORANGE CONSTRUCTION FENCE

NOT TO SCALE



ROCK SPLASH PAD

NOT TO SCALE



ADAM BRAND

ADAM BRANDT
S3 ELIZABETHTOWN ROAD

AD 22 UNTY ICASTER COINTY

SITE ADDRESS:

ZABETHTOWN ROAD
BETHTOWN PA 17022

SITE AD SITE AD TS73 ELIZABET ELIZABETHT

MUNICIPALITY:
MOUNT JOY TC

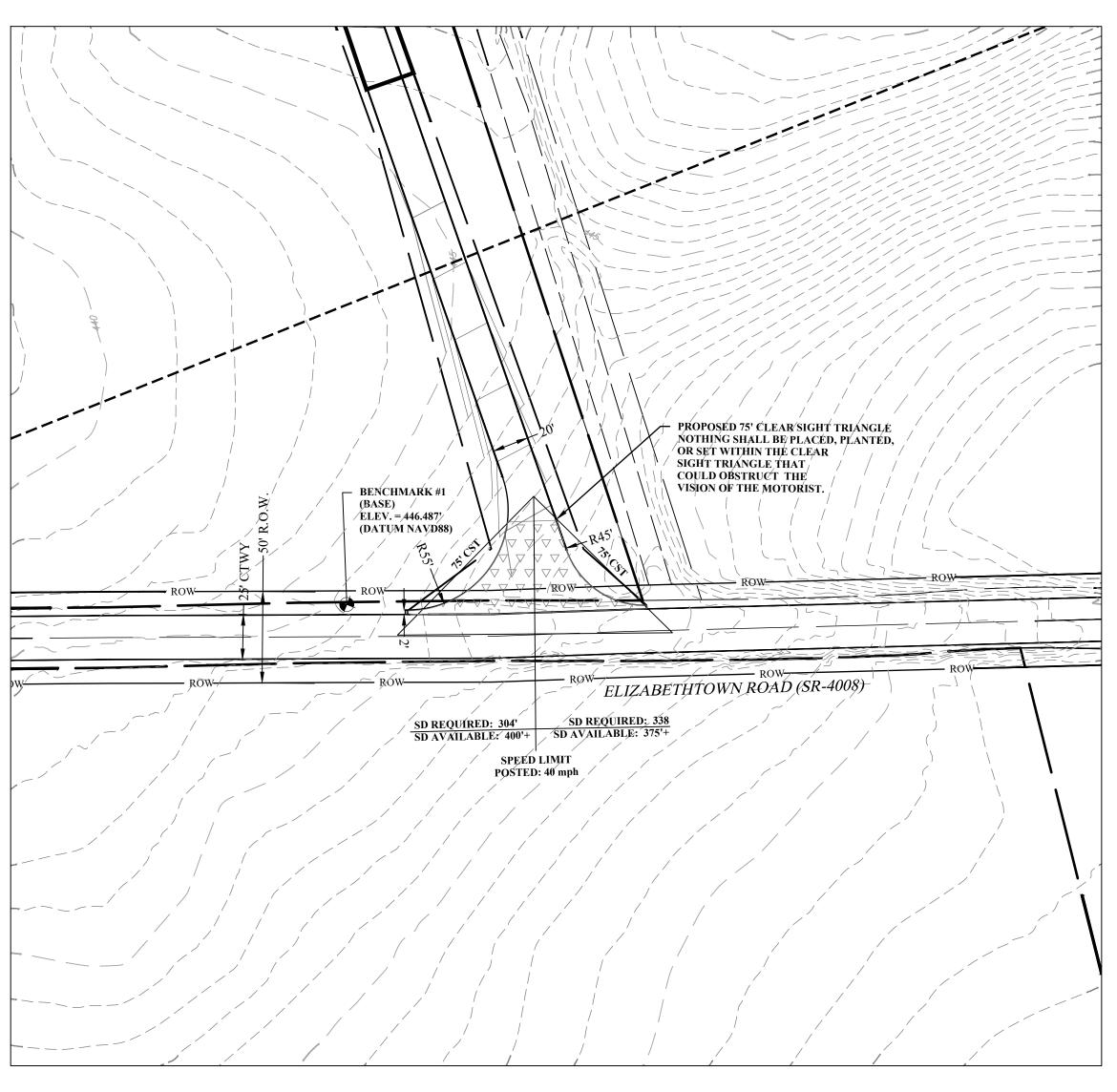


SEAL
DRAWN BY: BJN CHECKED BY: RJR

DEED REF: 6770530 UPI: 4608631500000

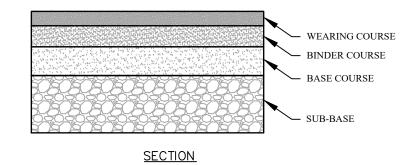
DATE: 12-18-2024

SHEET 16 OF 17 E7 OF 7



# $\frac{\mathbf{DRIVEWAY\,IMPROVEMENTS}}{\mathbf{PLAN}} \quad 1" = 50'$

CLEAR SIGHT TRIANGLE NOTES: 1. NOTHING SHALL BE PLACED PLANTED OR SET WITHIN THE AREA OF THE CLEAR SIGHT TRIANGLE WHICH OBSCURES THE VISION OF A MOTORIST ABOVE THE HEIGHT OF THIRTY (30") INCHES AND BELOW THE HEIGHT OF TEN (10) FEET MEASURING FROM THE CENTERLINE GRADES OF THE THE INTERSECTING DRIVEWAY AND STREET. 2. EXISTING VEGETATION SHALL BE MAINTAINED BELOW A HEIGHT OF THIRTY (30") INCHES AND ABOVE A HEIGHT OF TEN (10') FEET WHICH OBSCURES THE VISION OF A MOTORIST WITHIN THE AREA OF THE CLEAR SIGHT TRIANGLE.



WEARING COURSE: SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 0.0 < 0.3 MILLION ESAL'S, 12.5MM MIX, SRL-L, 2.0" DEPTH;

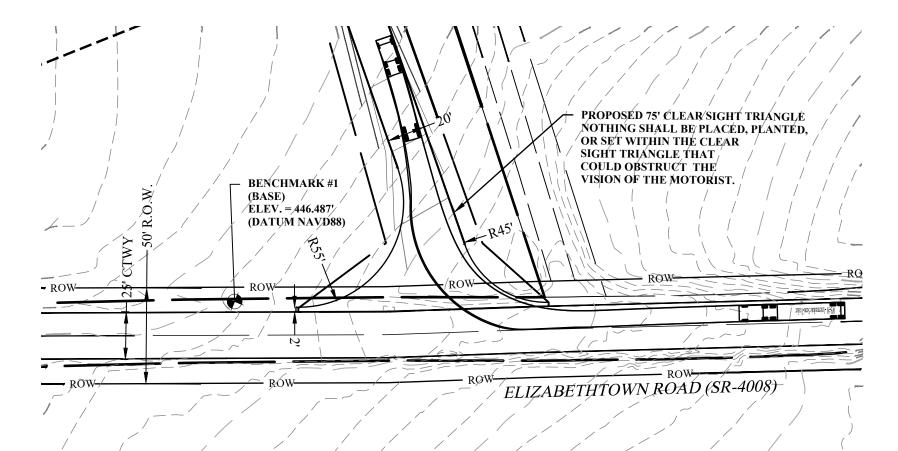
BINDER COURSE: SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG 64-22, 0.0 < 0.3 MILLION ESAL'S, 25MM MIX, 3" DEPTH;

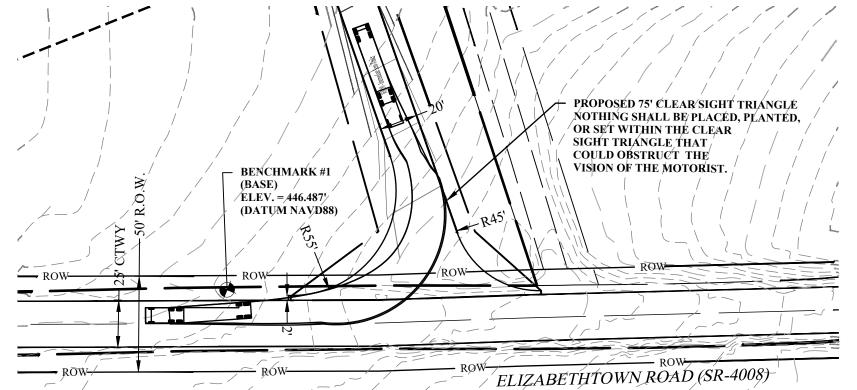
BASE COURSE: SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BASE COURSE, PG 64-22, 0.0 < 0.3 MILLION ESAL'S, 25MM MIX, 4" DEPTH;

SUB-BASE: MODIFIED 2A AGGREGATE, 8" COMPACTED DEPTH

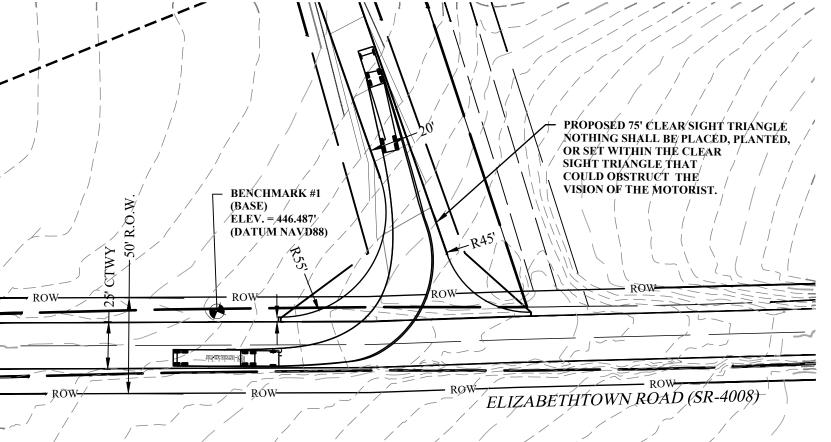
DRIVEWAY DETAIL

NOT TO SCALE

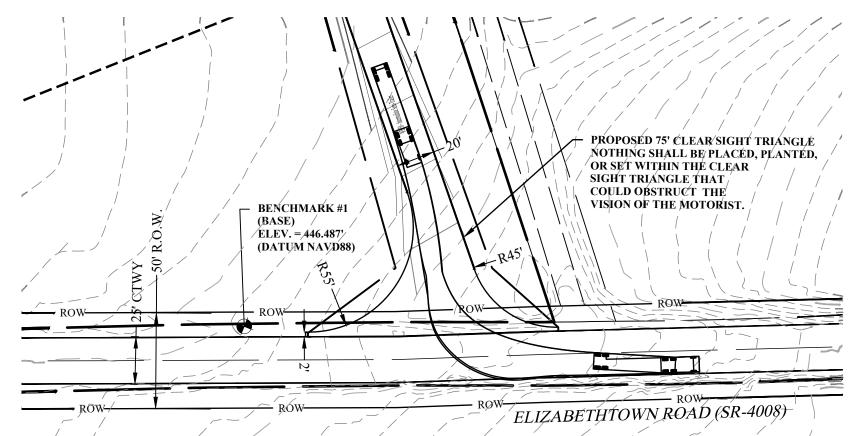














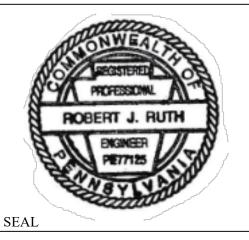








CONSULTING



DRAWN BY: BJN CHECKED BY: RJR

DEED REF: 6770530

DATE: 12-18-2024

UPI: 4608631500000 SHEET 17 OF 17

D1 OF 1





RECEIVED

Aug 01 2025

MOUNT JOY TOWNSHIP

NYE CONSULTING SERVICES, INC.

July 17, 2025

Mount Joy Township Board of Supervisors 8853 Elizabethtown Road, Elizabethtown, PA 17022

RE: Adam Brandt Land Development Plan 7573 Elizabethtown Road, Elizabethtown, PA 17022

Dear Board of Supervisors:

Please find below our requested modification of the Mount Joy Township Subdivision and Land Development Ordinance.

### **MODIFICATIONS/WAIVERS**

Section 119-52.J(3)(a), 119-53.B(2), 119-53.C – Requirement to improve the frontage along Elizabethtown Road.

- 1. The vehicular traffic is limited to an average of 1 truck per day.
- 2. The proposed improvements are minor in comparison to the overall lot size and will not greatly affect existing truck traffic patterns.
- 3. The driveway has been designed to allow safe movements and to allow the wheel path to remain on pavement so it doesn't break up the edge of the road.

In the event there are any questions regarding the above please feel free to contact the undersigned.

Sincerely yours,

Caleb Light 717-926-0816

235 VILLAGE SPRING LANE

**REINHOLDS PA, 17569** 

E: BNYE@NCSINCORP.COM

### LAW OFFICES

ANTHONY P. SCHIMANECK JOSELE CLEARY ROBERT E. SISKO JASON M. HESS

WILLIAM C. CROSSWELL RANDALL K. MILLER

OF COUNSEL

### MORGAN, HALLGREN, CROSSWELL & KANE, P.C.

P. O. BOX 4686

LANCASTER, PENNSYLVANIA 17604-4686

WWW.MHCK.COM

FAX (717) 299-6170

E-MAIL: attorneys@mhck.com

GEORGE J. MORGAN (1971 - 2021)

<u>RETIRED</u> CARL R. HALLGREN MICHAEL P. KANE

700 NORTH DUKE STREET LANCASTER, PA 17602 717-299-5251

> 1536 W MAIN STREET EPHRATA, PA 17522 717-733-2313

659 E WILLOW STREET ELIZABETHTOWN, PA 17022 717-361-8524

August 13, 2025

### VIA EMAIL

Kimberly Kaufman, Township Manager Mount Joy Township 8853 Elizabethtown Road Elizabethtown, PA 17022

Re: Preliminary/Final Land Development Plan for Adam Brandt Ag Operation

Our File No. 10221-1

Dear Kim:

I received a copy of the Preliminary/Final Land Development Plan for Adam Brandt Ag Operation (the "Plan"). The Plan proposes the development of a portion of the tract identified as Lancaster County Tax Account No. 460-86315-0-0000 (the "Property") which is located on the north and south sides of Elizabethtown Road and the east and west sides of Sunnyburn Road (the "Property"). The Plan proposes the development of a portion of the Property on the south side of Elizabethtown Road at the western portion of the Property. This letter will set forth comments on the Plan.

The Plan does not correctly identify the ownership of the Property. The deed referenced on the Plan at Document No. 6770530 indicates that title is held by Adam J. Brandt and Alisa M. Brant, husband and wife, with a 50 percent undivided interest; Joel L. Brandt and Kimberly K. Brandt, husband and wife, with a 25 percent undivided interest, and Aaron R. Brandt, with the remaining 25 percent undivided interest (collectively the "Landowners"). All of these persons must be identified as landowners, and all must sign the ownership certificate on the Plan.

The location map on the Plan indicates that the Property is located at the northeast corner of the intersection of Elizabethtown Road and Sunnyburn Road. The location map should be corrected to show the entirety of the Property.

The Property is a preserved farm pursuant to an agricultural land preservation grant of easement from the prior owners of the Property recorded at Record Book 3591, Page 24. The existence of the agricultural preservation easement should be noted on the Plan. The agricultural preservation easement will not prevent Landowners from entering into a Storm Water Management Agreement and Declaration of Easement. The agricultural preservation easement will prevent any other type of easement, such as a conservation easement to preserve the wetlands.

Kimberly Kaufman, Township Manager August 13, 2025 Page 2

The operations and maintenance requirements for the various types of storm water management facilities on Sheet 2 of the Plan must be included in the Storm Water Management Agreement. Landowners have granted a mortgage against the Property to the sellers, Robert N. Brandt and Marian A. Brandt which is recorded at Document No. 6770531. Mr. and Mrs. Brandt must execute a Joinder by Mortgagee to the Storm Water Management Agreement.

Elizabethtown Road is a state highway. The Planning Commission should condition approval on the issuance of a highway occupancy permit. The Plan must also be updated to include the note required by Section 508(6) of the Pennsylvania Municipalities Planning Code when a subdivision or land development plan proposes access to a state highway.

If you have any questions concerning any of these comments, please contact me. If you desire for me to prepare the Storm Water Management Agreement, please let me know.

Very truly yours,

Josele Cleary

JC:sle MUNI\10221-1(7)\250813\71

cc: Justin S. Evans, AICP, Assistant Zoning Officer (via email)
Patricia J. Bailey, Township Secretary (via email)
Benjamin S. Craddock, P.E. (via email)
Bert Nye, Project Manager (via email)

August 21, 2025

Kim Kaufman Township Manager Mount Joy Township 8853 Elizabethtown Road Elizabethtown, PA 17022

Via email: kkaufman@mtjoytwp.org

Re: Brandt Ag Operation

Preliminary/Final Land Development Plan

Township Permit No. 25-13-MLDP

LCEC Project No: 25-201



Dear Mr. Kaufman,

We have received a preliminary/final land development plan submission from Nye Consulting Services, Inc. for the above-referenced project. The submission included the following documents that were reviewed by our office:

- Preliminary/Final Land Development Plan dated December 18, 2024
- Erosion and Sediment Control Plan dated December 18, 2024
- Stormwater Management Report dated July 15, 2025
- Erosion and Sedimentation Control Report dated July 15, 2025
- Water and Sewer Report dated July 25, 2025
- Stormwater Management Report Wetlands report dated July 28, 2025
- Wetlands Drainage Map exhibit dated December 18, 2024
- Modification/Waiver Request Letter dated July 17, 2025
- O&M Agreement (draft) undated

Based upon my review of the submitted information, I offer the following comments for the Township to consider:

### **Zoning Ordinance**

- 1. The existing dwelling, barn, and building are within the front yard setbacks. These are existing non-conformities (135-195.D(1)).
- 2. The applicant shall confirm the number of proposed birds. Please note that poultry houses of more than 500 birds shall be located no closer than 300 feet to existing dwellings units not owned by the person conducting the poultry facility. The northernmost proposed poultry barn is less than 300 feet from the dwelling on the adjacent "Joel L. Brandt" property (135-212.A(1)).
- 3. The landowner shall provide written evidence from the Conservation District/PADEP of an approved, pending, or nonapplicable conservation and nutrient management plan, as well as confirmation from the relevant authority whether the proposed activity is regulated as a concentrated animal feeding operation, if applicable (135-212.D).

- 4. Evidence shall be provided that the proposed manure storage design is compliant with the requirements of the Zoning Ordinance (135-243).
- 5. An exterior lighting plan shall be submitted (135-298.D).
- 6. A clear sight triangle and stopping sight distances shall be shown at the proposed access point (135-299.E(2) & 119-31.D(12)).
- 7. Riparian corridors shall be established to include 75 feet on each side of the Little Chiques Creek and 30 feet on each side of any other stream or watercourse, measured from the top of each stream bank (135-306.B). The riparian corridors shall encompass, at a minimum, the entire 100 year floodplain (135-306.C). Please note that the zoning definition of a watercourse includes not just streams and rivers, but ponds, lakes and other bodies of water, whether natural or artificial. The applicant shall enter into a recordable agreement with the Township providing for the permanent maintenance of the riparian corridor, in a form acceptable to the Township Solicitor (135-306.F).
- 8. A 25 foot buffer surrounding the wetlands boundary shall be conserved (135-307.B). The applicant shall enter into a recordable agreement with the Township providing for the permanent maintenance of the wetland area, in a form acceptable to the Township Solicitor (135-307.E).

### **Subdivision and Land Development Ordinance**

- 9. The plan should be submitted as a preliminary land development plan (or a waiver requested to allow it to be processed as a preliminary/final plan) (119-25.C(2)).
- 10. The existing conditions plan shall be shown at a scale between 20 feet and 100 feet to the inch (119-31.A(1)).
- 11. The plans shall be signed and sealed by a registered engineer, surveyor or landscape architect (119-31.A(5)).
- 12. The location of the boundary with Rapho Township shall be shown on the plan (119-31.B(9)).
- 13. The plan shall identify the parent tract and all prior subdivisions of the parent tract, including the recording reference of each prior plan for the parent tract (119-31.B(13)).
- 14. The plans listed in the Existing Plans and Agreements table on the Cover Sheet shall be removed/corrected (119-31.B(14)).
- 15. Bearings and distances shall be provided for the entire subject tract (119-31.B(17)).
- 16. The names and subplan information of all adjacent landowners shall be shown on the plan (119-31.C(2)). The deed information for the adjacent "Breneman" property shall be corrected.
- 17. Stormwater management facilities within 200 feet of the subject tract shall be shown on the plans (119-31.C(3) & 113-43.I(5)).
- 18. The existing water supply and sewage disposal system shall be shown (119-31.C(4)(b)).
- 19. The units of occupancy and density shown on the Cover Sheet shall be corrected (119-31.D(3)).
- 20. Bearings and distances shall be provided for the existing rights-of-way for Elizabethtown Road and Sunnyburn Road (119-31.D(4)).

August 21, 2025 Page 2 of 5

- 21. The applicant shall supply proof that the driveway permit has been issued to permit a driveway or street intersection to be completed at the proposed location or certification from a professional engineer that consistent with the regulations of PennDOT a permit can be issued to permit a driveway to be completed at the proposed location (119-31.D(8)). Either a copy of the PennDOT HOP shall be provided prior to plan recording, or a certificate in accordance with Appendix No. 1 shall be added to the plan.
- 22. The clear sight triangle shown on Sheet 4 shall be revised to be consistent with Appendix No. 14 (119-31.D(12)).
- 23. The highway occupancy note shall be added to the plans (119-31.D(14)(d)).
- 24. A wetlands study shall be provided (119-32.B & 119-34.E(3)(c)).
- 25. All certificates shall be executed prior to final plan approval (119-35.E).
- 26. The certificate for the approval of the Mount Joy Township Planning Commission shall be removed (119-35.E(1)).
- 27. The certificate for ownership shall match Appendix No. 10 (119-35.E(1)(c)).
- 28. Written notice shall be provided from the DEP that approval of the sewer planning module has been granted or notice from the Department that such approval is not required (119-35.E(2)(a) and 119-60.A).
- 29. Written notices from the emergency service providers that will serve as the primary responders for the land development shall be submitted indicating that the building layout is satisfactory and will not present any obstacles or other problems for emergency responders to the land development (119-35.E.(2)(h)).
- 30. A Stormwater Management Agreement and Declaration of Easement in a form acceptable to the Township Solicitor shall be executed and recorded (119-35.E(4)(c), 119-56.E & 113-62).
- 31. Prior to final plan approval, recordable easements will be required for the storm drainage facilities located on adjoining tracts (119-35.E(4)(e)).
- 32. A land development agreement in a form acceptable to the Township Solicitor shall be executed (119-35.E(4)(f)).
- 33. A construction cost estimate and financial security shall be provided (119-41 & 113-60).
- 34. The frontages along Elizabethtown and Sunnyburn Roads (collector streets) shall be improved in accordance with 119-52.J or as indicated on the Township Official Map, whichever is greater. Improvements shall include pavement widening and dedication of additional right-of-way. The required right-of-way for a collector streets outside of the urban growth area is 60 feet, and the required cartway width is 32 feet (119-52.J(3)(a) & 119-53.B(2) / 119-53.C). The applicant has requested a waiver of this requirement.

<u>Waiver response</u>: The cartway for both Elizabethtown and Sunnyburn Roads are 24 feet. The existing rights-of-way for both Elizabethtown and Sunnyburn Roads are 50 feet. The applicant indicates that the vehicular traffic will be an average of one truck per day. In addition, the proposed improvements are only located on a portion of the overall lot and will not significantly impact existing truck traffic patterns. Finally, the driveway has been designed with 45' and 55' radii which, per the truck turning exhibits provided by the applicant, are sufficiently sized for the proposed truck traffic. Based on these considerations, I have no objections to a deferral of these requirements with the condition a deferral agreement be executed in a form acceptable to the Township Solicitor.

August 21, 2025 Page 3 of 5

- 35. If the Township determines that the road improvements required by 119-52.J(3)(a) are not feasible at the time of development, the developer shall deposit funds with the Township in the amount of 110% of the cost of improvements, or the applicant shall enter into an agreement that would defer road improvements to a time the Township would deem such road improvements as feasible (119-52.J(3)(d)).
- 36. The developer shall take all necessary action to obtain PennDOT permits and/or approvals to install the necessary improvements to the state roadway (119-52.J(3)(e)).
- 37. Deeds to lots which contain clear sight triangles shall provide that no structure, landscaping or grading shall be erected, installed or performed within the area of the clear sight triangle which would obscure the vision of motorists (119-52.L).

### **Stormwater Management Ordinance**

- 38. Evidence of NPDES and E&S permit approval by the Lancaster County Conservation District shall be provided (113-31.D, 113-45.B & 113-45.C).
- 39. The following erosion and sediment control items shall be addressed (113-31.E & 113-43.K):
  - a. The length of the rock construction entrance shown on the plans (100 feet) is inconsistent with the length of the rock construction entrance shown in the Rock Construction Entrance Standard Construction Detail #3-1 (150 feet).
  - b. The Slope Length Above Barrier in Standard E&S Worksheet #1 for Sock Nos. 3 & 4 shall be corrected. The upslope length appears to be 600+ feet.
  - c. Design information (slope length, grade, design chart, etc.) shall be provided for the proposed 24" Basin Protection compost filter sock.
  - d. The plans indicate that P300 matting is required for the "max" slope portions of the swale; however, the Channel detail shows S150 matting for all portions of the swales.
- 40. A minimum thirty-foot-wide access easement shall be provided for all stormwater facilities (113-31.Q).
- 41. Drainage area maps shall be provided showing the drainage area boundaries for the conveyance facilities (113-35.F).
- 42. The pond routing calculations show that the emergency spillway is used for the 100 year storm; therefore, a portion of the 100 year flow from the basin will be directed to POA-2 (113-35.F). This shall be accounted for in the pre / post rate control analysis.
- 43. The post-development curve number spreadsheet calculations do not include any cultivated areas; however, there appear to be cultivated areas within the post-development drainage areas (113-35.G).
- 44. The proposed 408 contour on the south side of the basin shall be revised to provide the proposed top of berm width (113-37.A(1)(a)[1]).
- 45. The maximum allowed width for a spillway is 50 feet (113-37.A(1)(e)[3]).
- 46. The invert for the basin discharge pipe is shown as 443.00 on the PCSM Infiltration Basin-1 detail and 442.00 at all other locations (113-37.A(5)).
- 47. The 6 inch orifice should be analyzed with a minimal length in the Pond Report in order to better represent an orifice plate and eliminate the possibility of outlet control conditions affecting the discharge (113-37.A(5)).

August 21, 2025 Page 4 of 5

- 48. The Trench Detail shall specify the backfill material above the Class 1 material (113-37.C(3)(a)).
- 49. Watertight joints shall be specified for the SLHDPE pipes (113-37.C(3)(d)).
- 50. The locations of the "min" and "max" sections of the swales shall be clearly shown on the plan so that the required swale depth and temporary mattings are clearly identified (113-37.C(5)).
- 51. The proposed grading for Swale 1 is inconsistent with the proposed side slopes shown in the Channel detail (113-37.C(5)).
- 52. The proposed grading does not provide required swale depth for Swale 2 where the driveway connects to the gravel pad (the "max" portion) (113-37.C(5)). Additional spot elevations shall be provided along the gravel pad to confirm that the required depth for Swale 2 is provided for the "min" portion of the swale.
- 53. The maximum swale slopes for Swale 1 and Swale 2 shown in Worksheet 11, are inconsistent with the maximum swale slopes shown on the plans (113-37.C(5)).
- 54. Swales shall be evaluated for stability and capacity based upon the "n" values specified (113-37.C.(5)(c)[1]).
- 55. The landowner shall execute the final documents prior to final plan approval (113-41.B).
- 56. The site location shown on the Location Map on the Cover Sheet shall be corrected (113-43.H).
- 57. Since a PennDOT Highway Occupancy Permit is required for the proposed driveway alterations, the permit(s) shall be part of the SWM site plan and must be obtained prior to unconditional SWM site plan approval (113-45.C).
- 58. An operation and maintenance (O&M) agreement shall be provided (113-62).

If you should have any questions or need additional information, please do not hesitate to contact me at bencraddock@lancastercivil.com or via telephone at 717-799-8599.

Sincerely.

Benjamin S. Craddock, PE, President

LANCASTER CIVIL

Bayamin S haddack

cc: Justin Evans, Assistant Zoning Officer (via email)

Patricia Bailey, Township Secretary / Assistant Zoning Officer (via email)

Josele Cleary, Esquire, Township Solicitor (via email)

Keith Hunnings, Township SEO (via email)

Bert Nye, PE, Nye Consulting Services (via email)

Renee Addleman, Planner, LCPC (via email)

August 21, 2025 Page 5 of 5