

# **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.:	24-21-MLDP	Date of Receipt/Filing:	October 28, 2024
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:	BOE	BRUBA	KER AG OPE	RAT	ION				
Plan No.:	2400	0-001 Plan Date: 10/7/2024							
Location:	2205	CAMP R	OAD, MANH	EIM,	PA 1'	7545			
Property Own	ner:	ROBERT	T BRUBAKER						
Owner Addre	ess:	2871 N.,	COLEBROOK	RO	AD, M	IANH	HEIM,	PA 175	45
Telephone No	o.:	717-575-	5255						
E-mail:									
Deed Referen	ice:	05409533	3	'	Tax Pa	arcel l	No.:	460-232	25921-324722-0-0000
Plan Type:			Sketch				Prelim	ninary	Final
			Lot Line Char	nge	X		Minor	Agricul	ltural or Land Development
Description:									OPERATION WITH
	THE	E CONSTI	RUCTION ON	AN	ADDI	TION	VAL 54	4' X 600	POULTRY BARN
Zoning Distri		AG							
Is a zoning ch	nange	necessary	7? NO	If y	es, ple	ase sp	ecify:		
Is/was a zoni	ng va	riance, spe	ecial exception	, or c	onditi	onal			If yes, attach ZHB decision.
use approval	neces	ssary?							
Total Acreage	e:	35							
Name of app	licant	(if other t	han owner):						
Address:									
Telephone No	o.:								
E-mail:									
Firm which prepared plan: NCS, INC.									
Address:		330 WEST ROUTE 897, REINHOLDS, PA 17569							
Phone No.:		717-220-3132							
Person respon	nsible	for plan:	BERT NYE	/ RO	BERT	RUT	ГΗ		
E-mail:		BNYE@1	NCSINCORP.	COM	/ ROI	B@N	CSINC	CORP.C	COM

**Proposed Lots and Units** 

	# of Lots	# of Units			# of Lots	# of Units
Total #			Mixed Use			
Agricultural	1	5	Single Family Deta	ached		
Commercial			Multifamily (attache	ed-sale)		
Industrial			Multifamily (attached-rental)			
Institutional			Other:			
Total Square Feet of Ground Floor Area (building footprint):			32400			
Total Square Feet of Existing Structures (all floors):			12960	0		
Total Square Feet of Proposed Structures (all floors):			32400			
Total Square Feet (or Acres) of Proposed Parkland/Other Public Use:			0			
Linear feet of new street:			0			
Identify all street(s) not prop	osed for de	edication:		NONE		

Type of water supply proposed:

Public (Live)		Community
Public (Capped)	X	Individual

# Type of sanitary sewage disposal proposed:

 <u> </u>		
Public (Live)		Community
Public (Capped)	X	Individual

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

Signature of Landowner of Applicant	Date

PENNSYLVANIA QUADRANGLE-MANHEIM

**DEVELOPER** SITE ADDRESS ROBERT L. BRUBAKER JR ANDREA R. BRUBAKER 2205 CAMP RD MANHEIM, PA 17545 PHONE: 717-575-5255

MAILING ADDRESS ROBERT L. BRUBAKER JI ANDREA R. BRUBAKER 2871 N COLEBROOK RD MANHEIM, PA 17545 PHONE: 717-575-5255

SOURCE OF TITLE

DEED: 05409533 ACCOUNT #460-2325921-324722-0-0000 LOT AREA: 35 AC.

NO NEW LOTS ARE CREATED WITH THIS PLAN

# **EXISTING FEATURES:**

SITE FEATURES ARE SHOWN PER AN ONSITE SURVEY ON 2/9/2024 BENCHMARK 1: TOP OF REBAR: ELEV. 546.00' BENCHMARK 2: TOP OF REBAR: ELEV. 546.35' BENCHMARK 3: TOP OF REBAR: ELEV. 546.29' BENCHMARK 4: TOP OF REBAR: ELEV. 547.68'

FLOODPLAIN INFORMATION PER FLOOD MAP #42071C0129F, DATED: APRIL 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.

NYE CONSULTING SERVICES, INC. 235 VILLAGE SPRING LANE,

REINHOLDS, PA 17569

EXISTING USE: AGRICULTURAL

THE PROPOSAL IS TO CONSTRUCT A NEW POULTRY OPERATION INCLUSIVE OF ONE POULTRY BARN (54' × 600'), GRAVEL PADS, AND ASSOCIATED STORMWATER MANGEMENT CONTROLS.

THE PROPOSED IMPERVIOUS COVERAGE IS 47,717 S.F. THE TOTAL IMPERVIOUS COVERAGE IS 63.467 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. (NCS, INC.)

ALL ENGINEERING ASSOCIATED WITH NCS, INC. IS COMPLETED UNDER THE RESPONSIBLE CHARGE OF ROBERT J. RUTH, P.E. OF NCS, INC

# SITING INFORMATION

BULK SITING DATA **REQUIRED** ZONING DISTRICT AGRICULTURAL MINIMUM LOT AREA: 40,000 SQ FT MAXIMUM LOT AREA MINIMUM LOT WIDTH FRONT YARD SETBACK 75 FEET SIDE YARD SETBACK 50 FEET REAR YARD SETBACK 50 FEET EXISTING DWELLING 300 FEET MAX LOT COVERAGE MAX BUILDING HEIGHT

WATER SERVICE SEWER SERVICE ON-LOT PRIVATE (NONE PROPOSED)

NO EMPLOYEES WILL BE UTILIZED AS PART OF THE PROPOSED USE

DRAWING NUMBER: 24000-001

AG PLANNING COMPLETED BY DARREN SHANK OF DSHANK CONSULTING, INC. THE OPERATION WILL NOT HAVE ANY EMPLOYEES OTHER THAN THE OWNER/OPERATOR

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. 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

# MINOR LAND DEVELOPMENT PLAN BOB BRUBAKER 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 5. AS-BUILT PLANS SHALL BE PROVIDED TO THE TOWNSHIP FOR REVIEW AND APPROVAL UPON COMPLETION OF THE

IMPROVEMENTS AND PRIOR TO THE RELEASE OF THE ESCROW ACCOUNT

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 BMI 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 SHALI PLACE ANY STRUCTURE FILL, LANDSCAPING OR VEGETATION INTO A STORMWATER MANAGEMENT FACILITY, A BMP

9. REQUIRED INSPECTIONS SHALL BE SCHEDULED THROUGH THE TOWNSHIP A MINIMUM OF 48 HOURS PRIOR TO THE TIME

10. THE DESIGN ENGINEER IS TO BE CONTACTED PRIOR TO THE INSTALLATION OF THE INFILTRATION BASIN TO REVIEW THE SITE PREPARATION AND PREFORM STORMWATER PERCOLATION TESTING TO ENSURE THE CONSTRUCTED INFILTRATION

11. MATERIALS AND CONSTRUCTION STANDARDS FOR STREETS, CURBS AND GUTTERS, AND SIDWALKS, 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

FACILITY OR WITHIN A DRAINAGE EASEMENT.

17. AN NPDES PERMIT APPLICATION HAS BEEN SUBMITTED TO THE LANCASTER COUNTY CONSERATION 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 ADDECT 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 AGRICULTURAL 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 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 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 JUDGEMENT AGAINST SUCH NORMAL AGRICULTURAL OPERATIONS

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 .

# RECORD PLANS/IMPROVEMENT GUARANTEES:

1. UPON 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.

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# ONE - CALL SYSTEM

Pennsylvania Act 121 (2008) requires 3 working days notice from excavators who are about to Dig, Blast, Auger, Bore, Grade, 「rench or Demolish anywhere in the Commonwealth. Contractor 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 EASEMEN'

2. 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.

3. 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

PROVISIONS FOR PERMANENT ACCESS OR MAINTENANCE EASEMENTS FOR ALL EXISTING AND PROPOSED PHYSICAL STORMWATER MANAGEMENT FACILITIES, SUCH AS PONDS AND (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 THI PROPERTY, SUPERIOR TO ALL LIENS OF RECORD AND NOT SUBORDINATE TO ANY EASEMENT OR RESTRICTION THAT WOULD INTERFERE WITH ITS PROVISIONS AND THE IMPLEMENTATION

# **CONTRACTOR NOTES:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL. TRENCH BARRICADING. COVERING, SHEETING AND SHORING, IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION, EXCAVATION, OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE 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 SHOWN.

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 OWNER.

7. THE CONTRACTOR IS RESPONSIBLE FOR ALL FIELD TESTING AND "RECORD DRAWINGS" AS REQUIRED BY THE VARIOUS AUTHORITY REQUIREMENTS.

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

A. UPON COMPLETION OF PRELIMINARY SITE PREPARATION INCLUDING STRIPPING OF VEGETATION,

STOCKPILING OF TOPSOIL AND CONSTRUCTION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL

B. UPON COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACING TOPSOIL, PERMANENT DRAINAGE, OR OTHER SITE DEVELOPMENT IMPROVEMENTS AND GROUND COVERS.

C. DURING THE CONSTRUCTION OF PERMANENT STORM WATER MANAGEMENT AND BMP FACILITIES MORE

i. CONSTRUCTION OF THE PROPOSED INFILTRATION BASIN BERM AND OUTLET CONTROL STRUCTURE

SUBGRADE PREPARATION FOR SOIL AMENDMENT PLACEMENT POST CONSTRUCTION INFILTRATION TEST

iv. SOIL AMENDMENT PLACEMENT PERMANENT STABILIZATION

vi. 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 GROUND COVERS AND PLANTINGS.

E. AFTER REVIEW OF THE AS-BUILT DRAWINGS, REQUIRED BY ARTICLE 6, BUT PRIOR TO FINAL RELEASE OF THE FINANCIAL SECURITY FOR COMPLETION 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

# SANITARY SEWER NOTES:

1. NO SEPTIC IS PROPOSED WITH THIS PROJECT.

# **WATER SERVICE NOTES:**

1. THIS PLAN PROPOSES TO SERVICE THE BARN WITH AN EXISTING WELL

2. WATER LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE RAPHO TOWNSHIP REQUIREMENTS.

3. A MINIMUM OF 4' COVER IS REQUIRED OVER ALL WATER LINES.

CERTIFICATION OF OWNERSHIP, ACKNOWLEDGMENT OF PLAN AND OFFER OF **DEDICATION COMMONWEAL**TH OF PENNSYLVANIA:

, BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED ROBERT L. BRUBAKER JR. AND ANDREA R. BRUBAKER, HUSBAND AND WIFE, 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 AND THAT ALL STREETS AND OTHER PROPERTYIDENTIFIED AS PROPOSED PUBLIC PROPERTY (EXCEPTING THOSE AREAS LABELED NOT FOR DEDICATION) ARE HEREBY DEDICATED TO THE PUBLIC USE.

NOTARY	LAND OWNER	
MY COMMISSION EXPIRES	LAND OWNER	

# 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

# STORMWATER MANAGEMENT PLAN CERTIFICATION

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE STORMWATER MANAGEMENT FACILITIES SHOWN AND DESCRIBED HEREON ARE DESIGNED IN CONFORMANCE WITH CHAPTER 119, SUBDIVISION AND LAND DEVELOPMENT, AND CHAPTER 113. STORMWATER MANAGEMENT.

ENGINEER

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

ENGINEER

CORRECT TO THE ACCURACY REQUIRED BY CHAPTER 119,

# **UNDERLAIN GEOLOGY**

**COUNTY OF LANCASTER:** 

REPRESENTS THAT THE PROPOSED INFILTRATION BASIN IS NOT UNDERLAIN BY LIMESTONE

SUBDIVISION AND LAND DEVELOPMENT,

# MOUNT JOY TOWNSHIP PLANNING COMMISSION

, 20 , THE MOUNT JOY TOWNSHIP PLANNING COMMISSION THIS PROJECT, INCLUDING THE COMPLETE SET OF PLANS AND INFORMATION WHICH ARE FILED WITH THE COMMISSION IN MOUNT JOY TOWNSHIP PLANNING COMMISSION FILE NO. BASED UPON ITS CONFORMITY WITH THE STANDARDS OF CHAPTER 119, SUBDIVISION AND LAND

SIGNATURES OF THE CHAIRMAN AND VICE CHAIRMAN OR THEIR DESIGNEES.

# MOUNT JOY BOARD OF SUPERVISORS

THE BOARD OF SUPERVISORS OF MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA APPROVED THE SUBDIVISION OR LAND DEVELOPMENT PLAN OF THE PROPERTY OF AS SHOWN HEREON.

MUNICIPAL SEAI

LANCASTER COUNTY PLANNING COMMISSION'S REVIEW CERTIFICATE

THIS PLAN, BEARING LCPC FILE NO. 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.

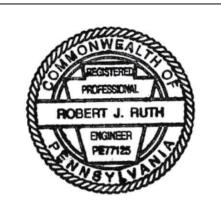
CHAIRMAN OR DESIGNEE

# LANCASTER COUNTY RECORDER OF DEEDS CERTIFICATE

RECORDED IN THE OFFICE FOR RECORDER OF DEEDS, IN AND FOR LANCASTER COUNTY, PENNSYLVANIA, IN SUBDIVISION PLAN BOOK WITNESS MY HAND AND SEAL OF OFFICE THIS

RECORDER

**RECEIVED** Oct 28 2024 MOUNT JOY TOWNSHIP



DRAWN BY: MRR CHECKED BY: RJR DATE: 10/7/2024 DEED REF: 05409533 UPI: 460-2325921-324722-0-0000

24-21-MLDP

SHEET I OF 16

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 > 0.25 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

STORMWATER MANAGEMENT CONTROLS

• 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

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 ACTIVATED.

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 PERMITTER

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) 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 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 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 OUALIFIES 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. HE 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

INTIL 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

STABILIZATION SPECIFICATIONS 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

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

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 THE EXCAVATOR, COUNTY CONSERVATION DISTRICT, EAST DONEGAL TOWNSHIP, DM/A AND NCS, INC 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 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 SEOUENCE.

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 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

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

- . PERFORM CONSTRUCTION STAKEOUT AND FIELD MARK ALL E&S CONTROLS AND LIMITS OF DISTURBANCE.
- 2. INSTALL TEMPORARY ROCK CONSTRUCTION ENTRANCE PER PLAN SPECIFICATIONS AND DETAILS.
- 3. INSTALL TEMPORARY SILTSOCK PER PLAN SPECIFICATIONS AND DETAILS. 4. INITIATE ROUGH GRADING FOR INSTALLATION OF THE BARN AND DRIVEWAYS. TO THE EXTENT POSSIBLE, DISTURBANCE SHALL BE LIMITED TO THE AREA BEING
- GRADED AT ANY GIVEN TIME AND STABILIZED IMMEDIATELY. 5. INSTALL CONCRETE WASTE DISPOSAL AREA PER PLAN DETAILS AND SPECIFICATIONS. 6. INITIATE CONSTRUCTION OF THE BARN AND DRIVEWAYS. CONNECT TO EXISTING
- 7. INITIATE STRIPPING AND STOCKPILING OF TOPSOIL FROM AREAS WHICH ARE TO BE RE-GRADED FOR THE CONSTRUCTION OF THE INFILTRATION BASIN AND SWALES 1-2 WITH ROCK FILTERS 1-4. STRIPPING SHALL BE LIMITED TO THOSE AREAS WHICH ARE TO BE IMMEDIATELY RE-GRADED. STOCKPILE EXCESS SOIL AND TOPSOIL IN
- 8. INITIATE ROUGH GRADING FOR INSTALLATION OF INFILTRATION BASIN. 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.
- 9. INITIATE CONSTRUCTION OF THE INFILTRATION BASIN INCLUDING CRITICAL STAGES DEFINED IN STEPS 12-15. INSTALL PRINCIPAL SPILLWAY WITH ASSOCIATED OUTLET BARREL, ANTI-SEEP COLLARS, FLARED END SECTION, RIP-RAP 1 (RR-1), AND EMERGENCY SPILLWAY, SWALES 1 & 2. CONVEYANCE PIPES 1 & 2 WITH ASSOCIATED FLARED END SECTIONS AND RR-2 & RR-3. ALL SIDE SLOPES OF THE SWALES AND BASIN ALONG WITH THE BOTTOM OF THE SWALES SHALL BE IMMEDIATELY STABILIZED WITH EROSION CONTROL BLANKET AND STABILIZED IN
- 10. COMPLETE THE FINAL GRADING/PREFORM AND GRADING REPAIRS OF THE AREA PER THE SITE PLAN. REMOVE ALL SEDIMENT FROM E&S CONTROLS, INCLUDING ALL SILT SOXX, AND WORK INTO THE FINAL GRADING. E&S CONTROLS ARE TO REMAIN IN
- WHEN FINAL GRADE IS ACHIEVED, PERMANENT VEGETATIVE STABILIZATION SHALI 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 DRIVEWAYS AND LOADING AREAS WITH GRAVEL.

ACCORDANCE WITH THE PLAN.

- 12. 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.
- 13. PRIOR TO INSTALLING AMENDED TOPSOIL DESIGN ENGINEER TO PREFORM PERCOLATION TESTING TO ENSURE THE BASIN WILL FUNCTION AS DESIGNED.
- 14. INSTALL AMENDED TOPSOIL WITHIN THE BASIN BOTTOM TO THE FINAL DESIGN GRADE PER PLAN DETAILS AND SPECIFICATIONS.
- 15 PERMANENTLY STABILIZE ANY AREAS NOT FULLY ESTABLISHED WITH VEGETATION 16. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE LANCASTER COUNTY CONSERVATION DISTRICT FOR AN INSPECTION
- PRIOR TO THE REMOVAL OF THE TEMPORARY BMPS. 17. 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. REMOVAL THE SUBMISSION OF A NOTICE OF TERMINATION TO THE LANCASTER COUNTY CONSERVATION DISTRICT.

# PCSM PLAN

# **BOB BRUBAKER AG OPERATION**

MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

OWNER / OPERATOR ROBERT L. BRUBAKER JR. 2871 N COLEBROOK RD **MANHEIM, PA 17545** 

# 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.

OWNER / OPERATOR

# 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
STRUCTURES - 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 MAINTANCE ACTIVITY IN WRITTEN LOG.	> 1" RAIN EVENT & AS NEEDED YEAR 1 - MONTHLY YEAR 2 AND AFTER- SEMI-ANNUAL AT A MINIMUM

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 > 1" RAIN EVENT & AS -REMOVE ALL NOXIOUS WEEDS / DISEASED VEGETATION NEEDED YEAR 1 & -DURING A TIME OF DROUGHT WATERING MAYBE NECCESSARY AFTER - SEMI-ANNUAL -MOWING OF BASIN AND DISPOSE OF CUTTINGS IN LOCAL COMPOST FACILITY. MOW ONLY WHEN BASIN IS DRY TO PREVENT RUTTING AND COMPACTION

# RECORD MAINTANCE 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 MAINTANCE DEWATERING UNDERDRAIN OR INSTALL ABACT COMPOST FILTER SOCK AND PUMPED WATER FILTER BAG TO DEWATER. CONTACT DESIGN ENGINEER FOR SITE VISIT TO PROVIDE REMEDIATION > 1" RAIN EVENT YEAR 1 DIRECTION. -IF PONDING WATER OCCURS DUE TO COMPACTION TREAT THE YEAR 2 & AFTER AREA FOR COMPACTION IN ACCORDANCE WITH SOIL RESTORATION SEMI-ANNUAL

NOTES (RIP SOIL TO LOOSEN), ADD TOPSOIL AMENDMENT TO RESTORE BASIN BOTTOM TO FINAL DESIGN ELEVATION. -IF PONDING WATER OCCURS DUE TO SETTLEMENT/INCORRECT INSTALLATION. SCARIFY BOTTOM AREA ADD TOPSOIL AMENDMENT TO RESTORE BASIN BOTTOM TO FINAL DESIGN ELEVATION RECORD MAINTANCE ACTIVITY IN WRITTEN LOG

# PCSM BASIN CONSTRUCTION NOTES

NFILTRATION 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 ENGINEER IMMEDIATELY

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)

NSTALL 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

CONSTRUCTION. 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 DESIGN.

# 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

# TRENCH LEVEL SPREADER OPERATION & MAINTENANCE PROCEDURES

PCSM PLAN DRAWING INDEX

P2 OF 8 PCSM PLAN: EXISTING RESOURSE MAP

P3 OF 8 PCSM PLAN: CONTROL GRADING PLAN

P6 OF 8 PCSM PLAN: PROFILES AND EASEMENT P7 OF 8 PRE-DEVELOPMENT DRAINAGE MAP

P8 OF 8 POST-DEVELOPMENT DRAINAGE MAP

P1 OF 8 PCSM PLAN: NOTES

P4 OF 8 PCSM PLAN: SITE DETAILS 1

P5 OF 8 PCSM PLAN: SITE DETAILS 2

INSPECTION AND MAINTANCE TASKS INSPECTION SCHEDULE

> 1" RAIN EVENT OR AS NEEDED

YEAR 1- MONTHLY

YEAR 2 & AFTER

SEMI-ANNUAI

> 1" RAIN EVENT YEAR 1 -

BIWEEKLY

YEAR 2 - QUARTERLY

YEAR 3 & AFTER

> 1" RAIN EVENT

YEAR 1 - MONTHLY

YEAR 2 AND AFTER - SEMI

ANNUAL.

SEMI-ANNUAI

INSPECT THE LEVEL SPREADER FOR DEBRIS AND/OR EROSION. SEDIMENT AND DEBRIS SHOULD BE ROUTINELY REMOVED (BUT NEVER LESS THAN SEMIANNUALLY), OR UPON OBSERVATION, WHEN BUILDUP OCCURS IN THE CLEAN OUTS - RECORD MAINTANCE 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

- MONTHLY

-REMOVE ALL NOXIOUS WEEDS / DISEASED VEGETATION -VEGETATIVE COVER SHOULD BE SUSTAINED AT 85% AND REPLACED IF DAMAGE GREATER THAN 50% IS OBSERVED. -RECORD MAINTANCE ACTIVITY IN WRITTEN LOG

UNLEVEL AREAS, RILLS, GULLIF NSPECT 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

PERMANENT STABILIZATION CONSTRUCTION NOTES

THAN 72 HOURS.) -RECORD MAINTANCE ACTIVITY IN WRITTEN LOG

 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 EROSION CONTROL & CONSERVATION PLANTING ON NONCROPLAND. 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.

SEEDING MIX: BASINS S	SEEDING 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

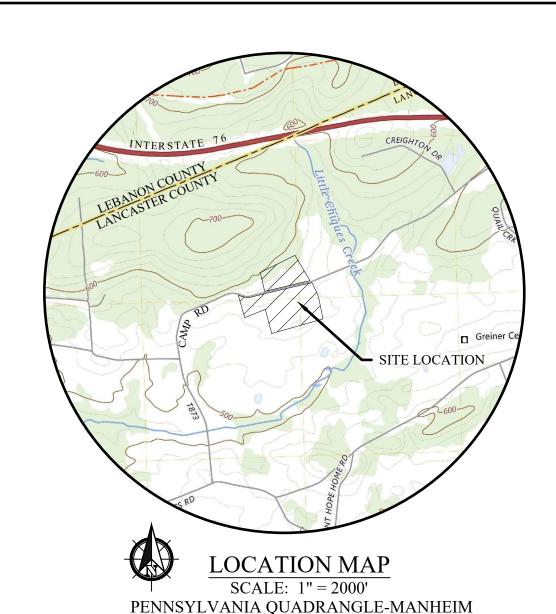
SUPPLIED BY: F.M. BROWN'S SONS, INC. SINKING SPRING, PA, PHONE: 800-345-3344, FAX: 610-678-7023 WWW.FMBROWN.COM

SEED APPLICATION RATES STANDARD WORKSHEET 21

RATE OF ANCHOR MATERIAL APPLICATION: SEEDING SEASON DATES:

### (TEMPORARY) ANNUAL RYEGRASS SPECIES: % PURE LIVE SEED: 95% APPLICATION RATE: 175 LB. / ACRE 10-10-10 (X-X-X) FERTILIZER TYPE: FERTILIZER APPLICATION RATE: 500 LB. / ACRE LIMING RATE: 1.0 T. / ACRE MULCH TYPE: STRAW OR HAY MULCHING RATE 3.0 T. / ACRE (PERMANENT) TOPSOIL PLACEMENT DEPTH 6.0 INCH 55% TALL FESCUE / 19% HARD FESCUE / 10% SWITCHGRASS / 109 SPECIES: PERENNIAL RYE GRASS / 6% WHITE CLOVER % PURE LIVE SEED: 150 LB. / ACRE APPLICATION RATE 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

MARCH 15 - OCTOBER 15



# **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

• 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, DAMAGI 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

 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

AND INVASIVE VEGETATION. THE SWALE INLET AND OUTLET SHOULD ALSO BE INSPECTED FOR SIGNS OF

# 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 REPEATED OVER TIME DUE TO COMPACTION FROM USE AND/OR SETTLING.

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

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

STABILIZE BMP AS PER PLAN SPECIFICATIONS 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.

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

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 STABILIZE BMP AS PER PLAN SPECIFICATION AND DETAILS

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

25% - 100% (DRY WEIGHT BASIS) ORGANIC MATTER CONTENT ORGANIC PORTION FIBROUS AND ELONGATED MOISTURE CONTENT 30% - 60% PARTICLE SIZE 30% - 50% PASS THROUGH 3/8" SIEVE SOLUBLE SALT CONCENTRATION 5.0 dS/m (mmhos/cm) MAXIMUM

# 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

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.

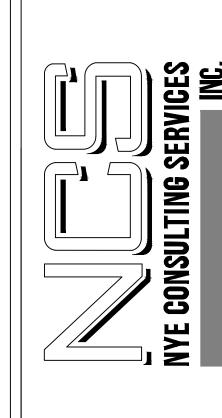
# RIPRAP OUTLET PROTECTION

SPECIFICATIONS

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

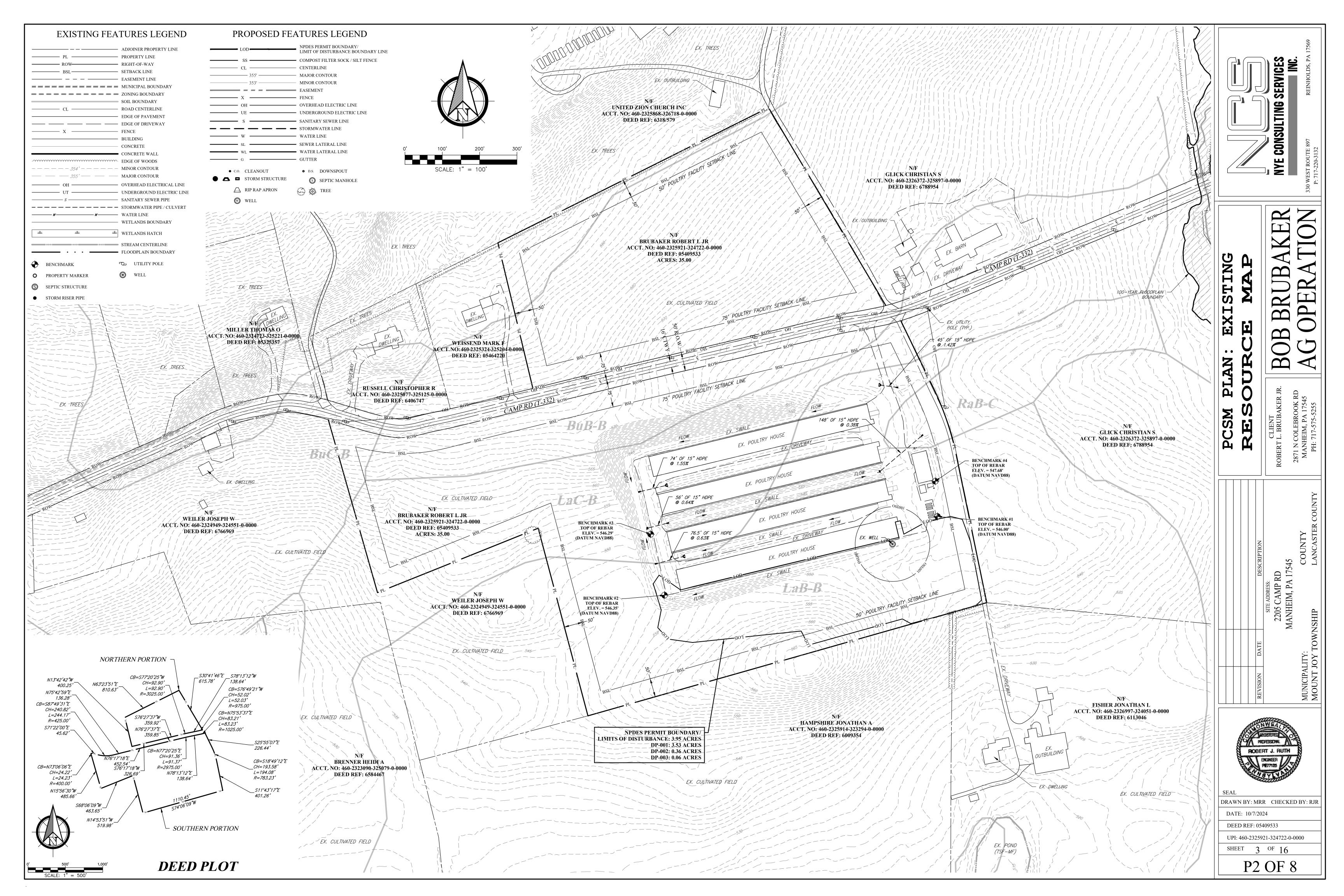


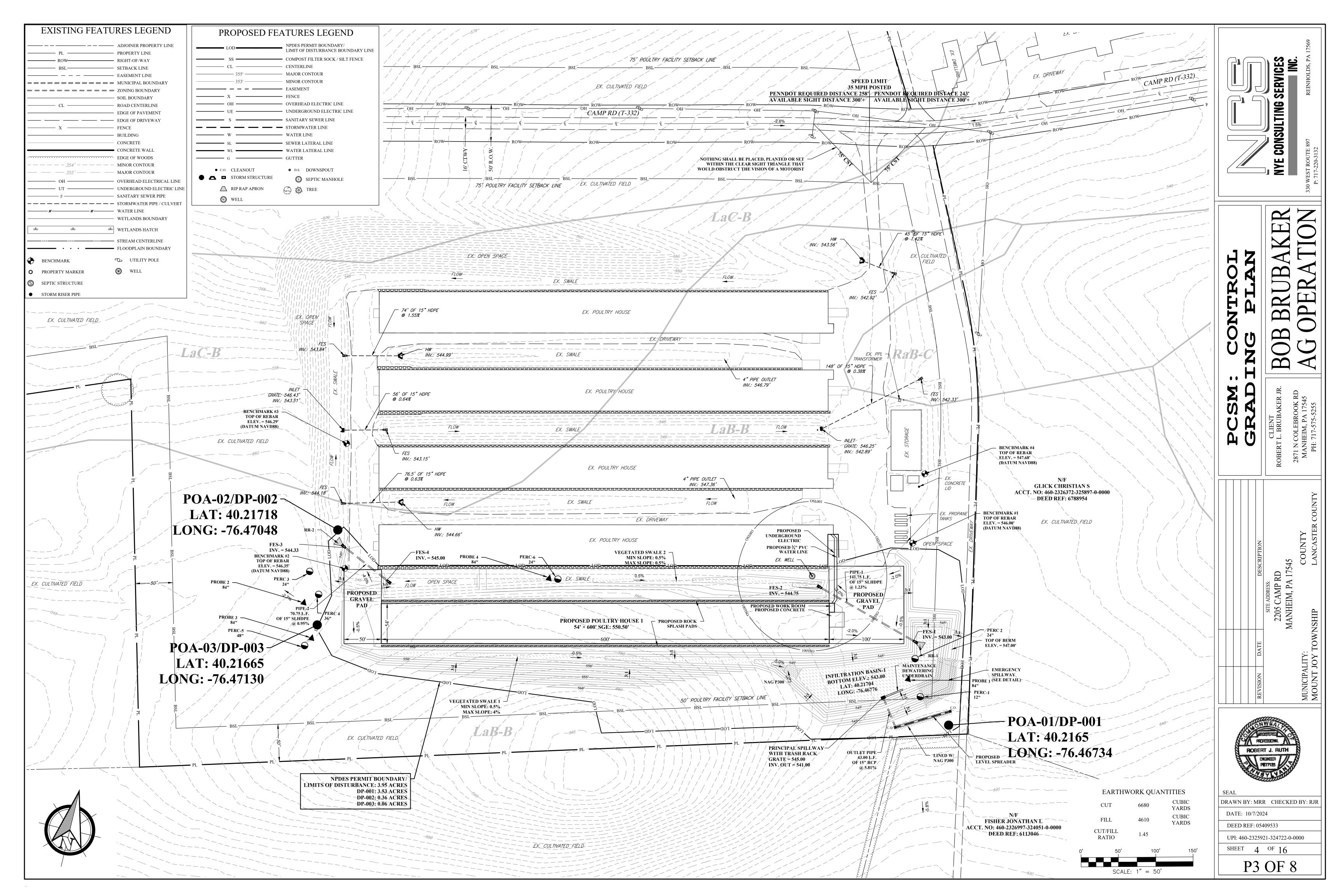
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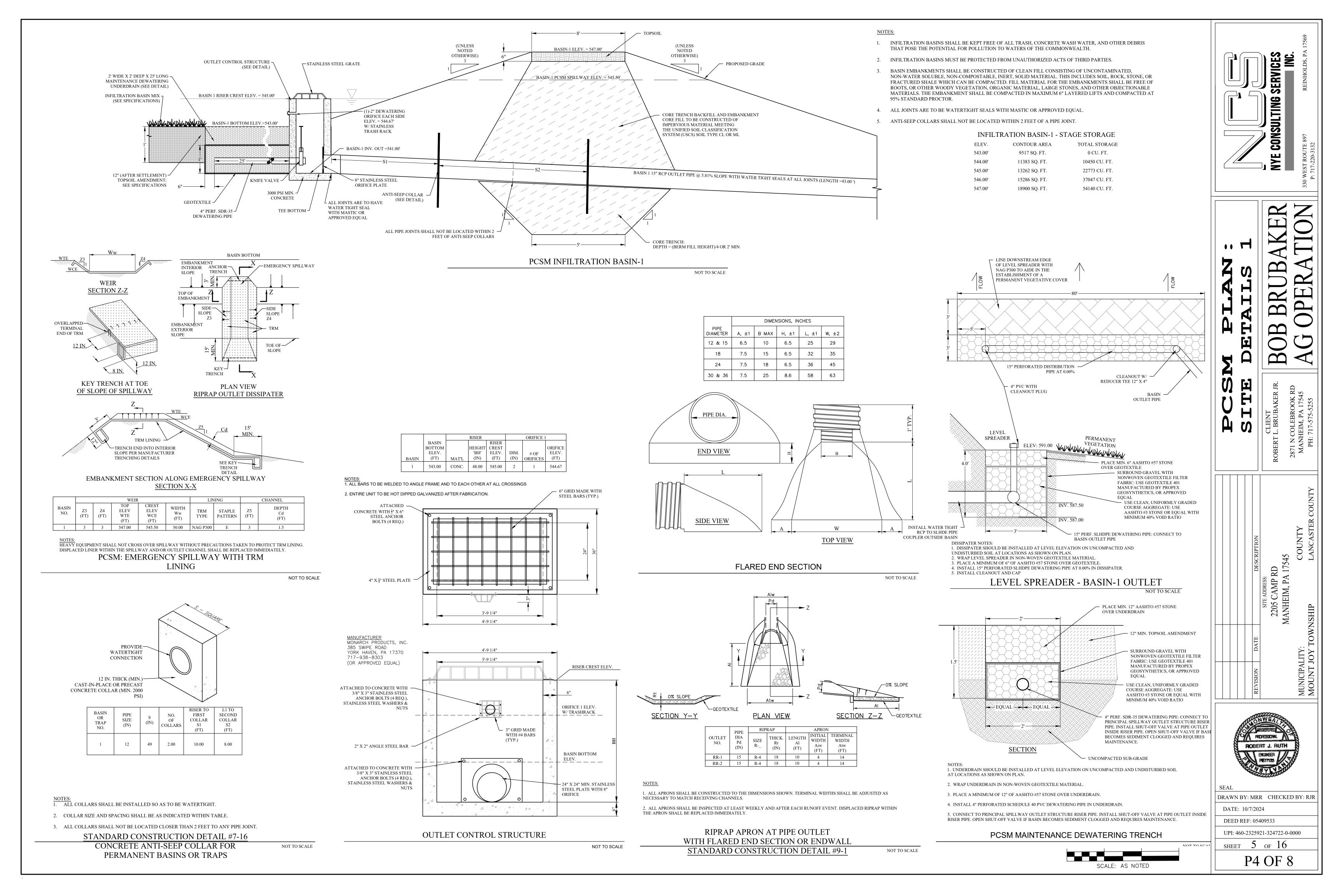
DRAWN BY: MRR CHECKED BY: RJR

DATE: 10/7/2024 DEED REF: 05409533 UPI: 460-2325921-324722-0-0000

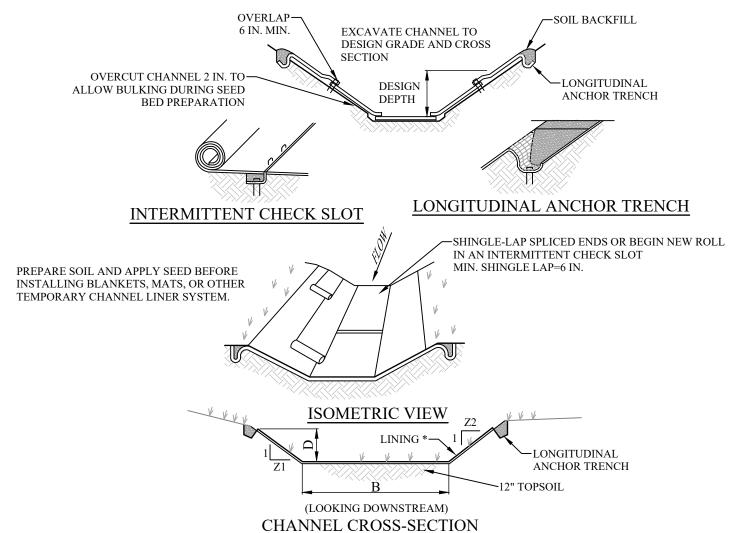
SHEET 2 of 16







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	2.00	3	3	NAG S150	VEG. CLASS C
SWALE-1 MAX.	3	2	0.98	3	3	NAG P300	VEG. CLASS C
SWALE-2MIN.	5	1.5	1.48	3	3	NAG S150	VEG. CLASS C
SWALE-2 MAX.	5	1.5	1.48	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

NOTES

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

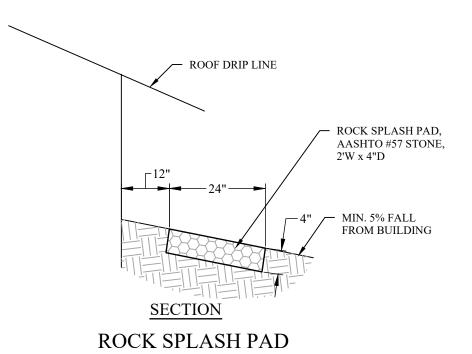
2. CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING 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" TO 12" STAND

# CHANNEL

# STANDARD CONSTRUCTION DETAIL #6-1

NOT TO SCALE



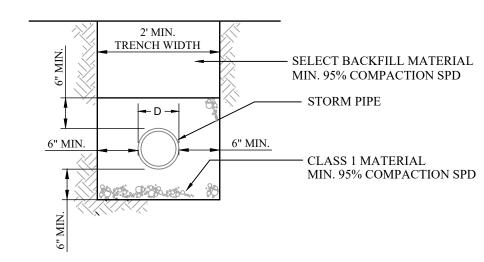
NOT TO SCALE

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.

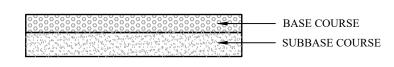
NOTES: - BACKFILL IS TO BE MECHANICALLY TAMPED IN 6" LAYERS. D = OUTSIDE DIAMETER OF PIPE

SPD = STANDARD PROCTOR DENSITY



TRENCH DETAIL

NOT TO SCALE

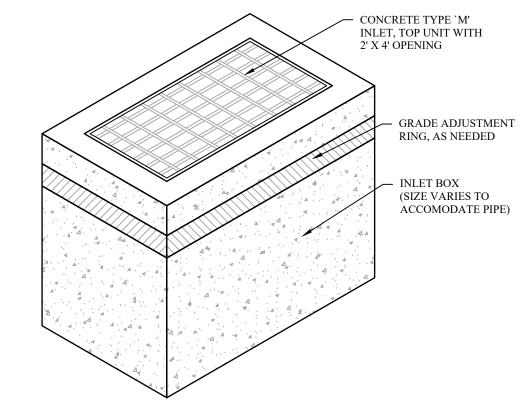


IOTES:

- 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.

# DRIVEWAY

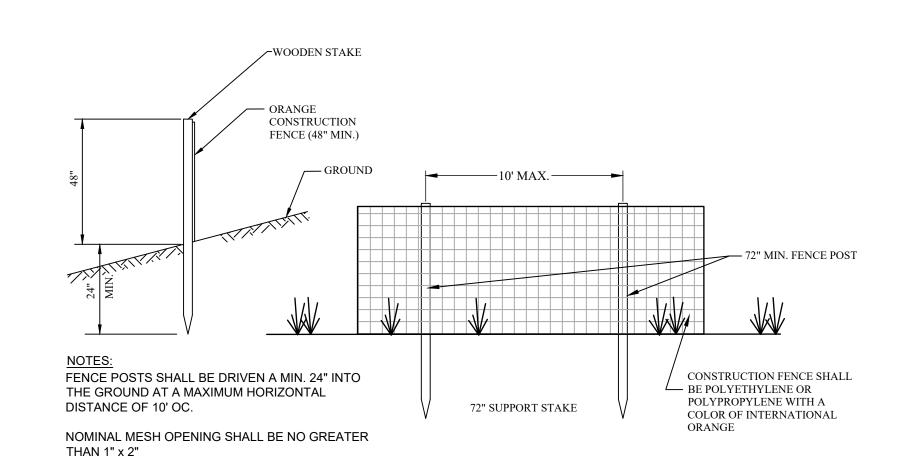
NOT TO SCALE



- NOTES:

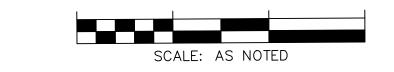
  1. MATERIAL AND CONSTRUCTION TO BE BASED ON PENNDOT STANDARDS.
- 2. ALL JOINTS ARE TO BE WATERTIGHT SEALED WITH MASTIC OR APPROVED EQUAL.

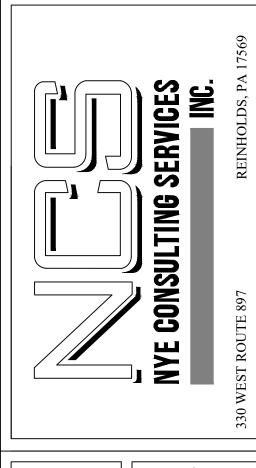
# TYPE M INLET



# ORANGE CONSTRUCTION FENCE

NOT TO SCALE





# BOB BRUBAKE

CLIENT ROBERT L. BRUBAKER JR. 2871 N COLEBROOK RD MANHEIM, PA 17545

DATE DESCRIPTION
SITE ADDRESS:
2205 CAMP RD
MANHEIM, PA 17545
ALITY:
COUNTY



SEAL

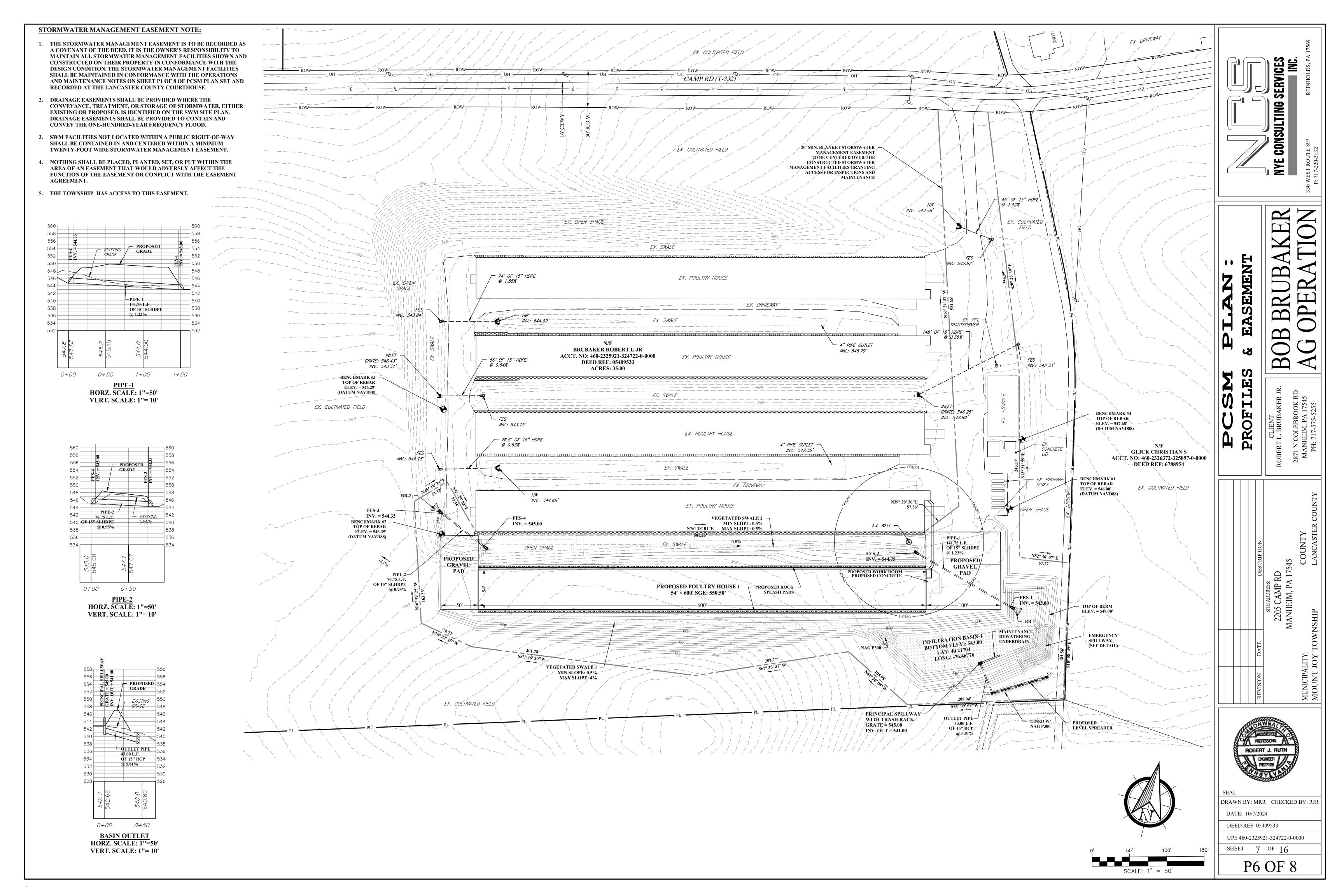
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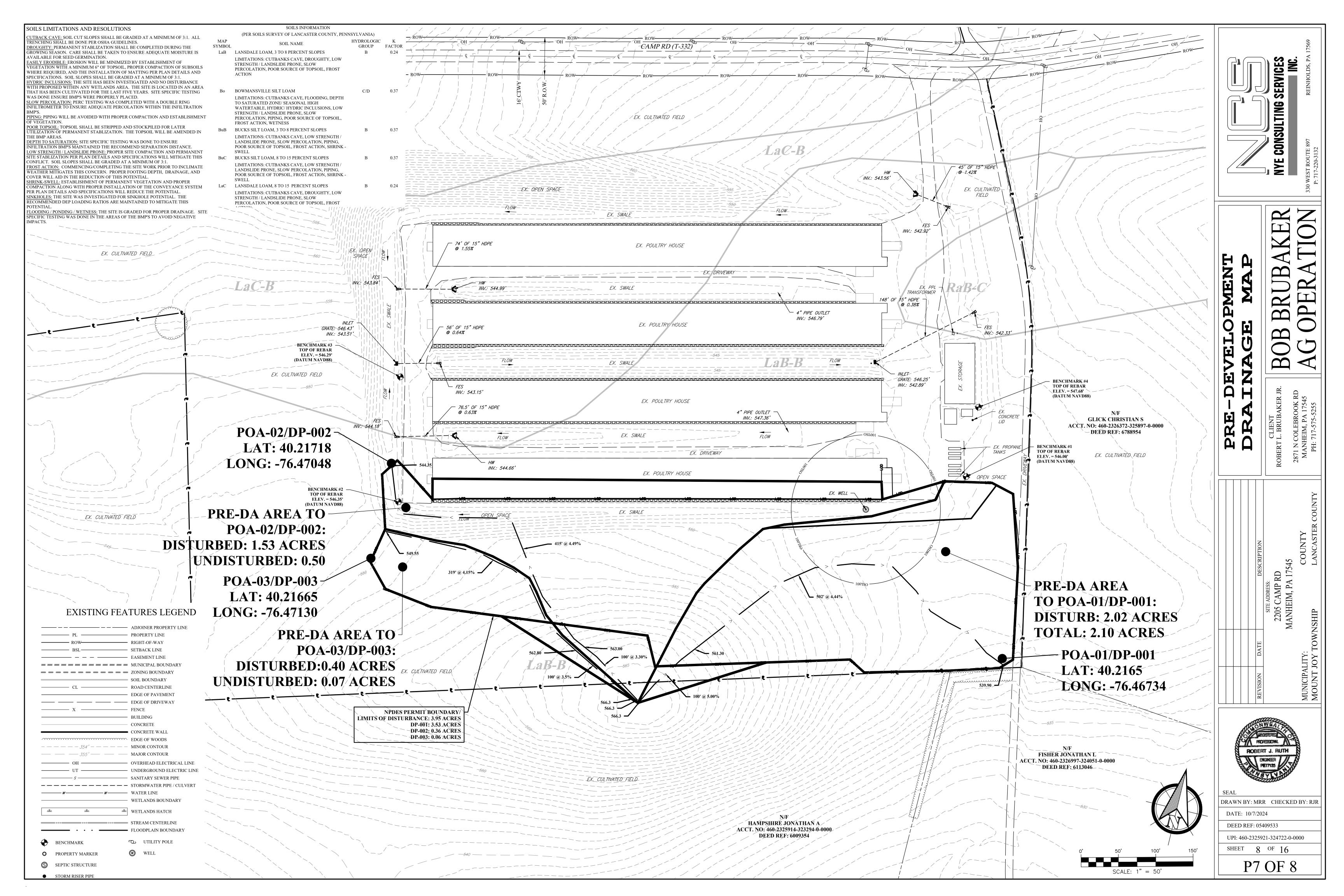
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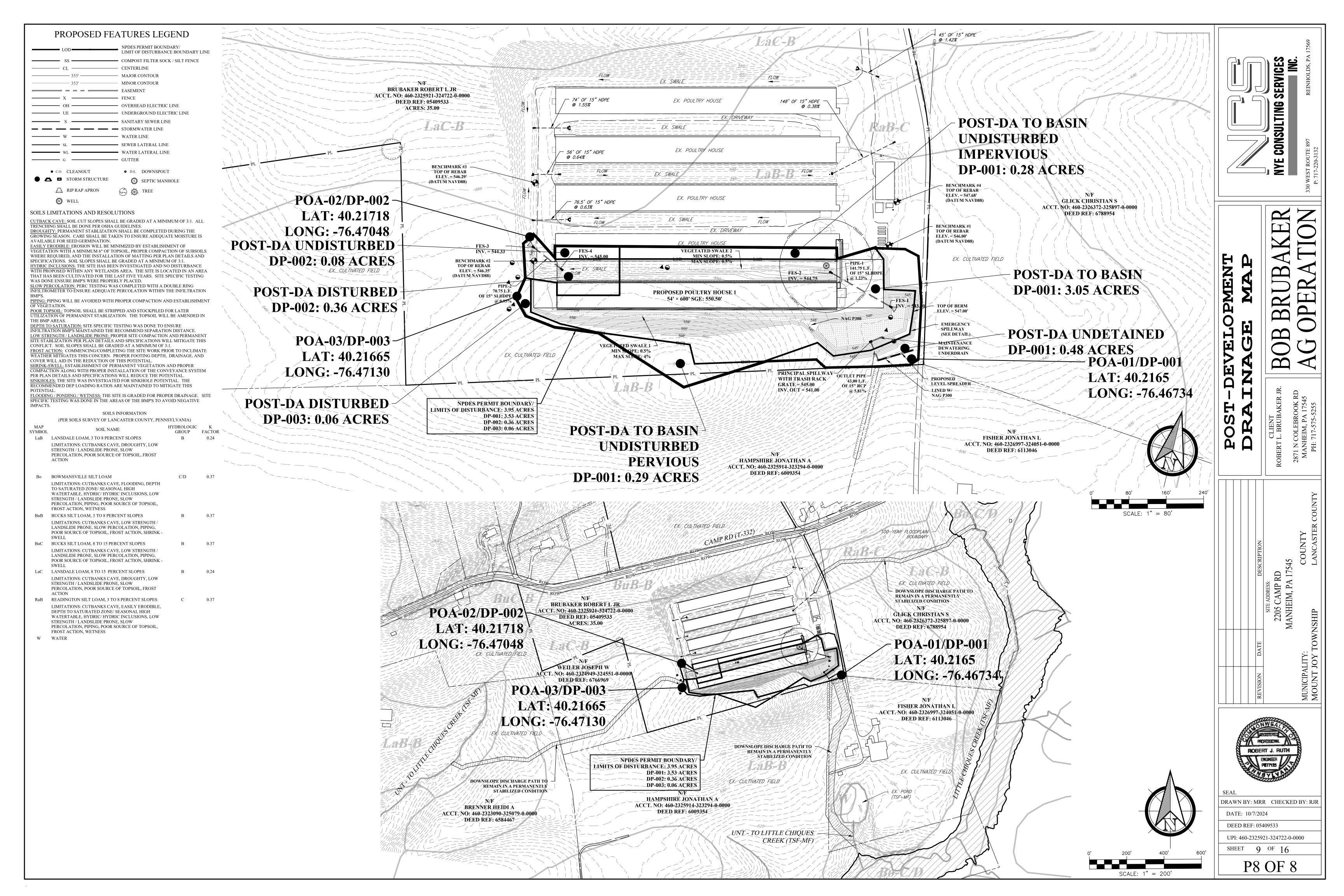
DEED REF: 05409533

UPI: 460-2325921-324722-0-0000

SHEET 6 OF 16
P5 OF 8







PHONE: (717) 380-6745

DP-003: 0.06 ACRES

MUNICIPALITY: MOUNT JOY TOWNSHIP

THE PROPOSAL IS TO CONSTRUCT A NEW POULTRY OPERATION INCLUSIVE OF ONE POULTRY BARN (54' × 600'), GRAVEL PADS, AND ASSOCIATED STORMWATER MANGEMENT CONTROLS.

IMITS OF DISTURBANCE/NPDES PERMIT BOUNDARY IS 3.95 ACRES DP-002: 0.36 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

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 OR 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 VOLUME RESULTING FROM PROPOSED IMPROVEMENTS. IT CONTRIBUTES TO GROUNDWATER RECHARGE, REDUCES FLOW RATES, MITIGATES THERMAL IMPACTS BY UNDERGROUNI WATER INFILTRATION, AND ENHANCES WATER QUALITY

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 ACCESSIBLE 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 IETHODS, NO AREA EXCEEDING 15.000 SOUARE FEET. INTENDED FOR VEGETATION

「ABILIZATION, 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 PPLICATION FOLLOWS THE PLAN. AREAS NOT AT FINISHED GRADE, TO BE REACTIVATED 'ITHIN 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 ONSTRUCTION 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 QUIPMENT MUST REMAIN WITHIN THIS BOUNDARY.

# HE CG-1 IS BEING MET AND DOWNSTREAM WATERCOURSES WILL NOT BE DEGRADED

OMPOST SOCKS ARE INSTALLED ON UNDISTURBED GROUND AND STORMWATER WILL FLOW HROUGH VEGETATED AREAS.

# E PROPOSED IMPROVEMENTS ARE CLUSTERED, LEAVING A LARGER PORTION OF THE LAND

OCKS HAVE BEEN INSTALLED AROUND THE SITE PERIMETER. ALL WORK AND EQUIPMENT MUST REMAIN WITHIN THIS DESIGNATED BOUNDARY.

# &S PLAN UTILIZES OTHER MEASURES OR CONTROLS THAT PREVENT OR MINIMIZE GENERATION OF INCREASED STORMWATER RUNOFI

THAN 4 DAYS, IMMEDIATE STABILIZATION IS REQUIRED, DISTURBED AREAS MUST BE PROMPTLY SEEDED. MULCHED. OR OTHERWISE PROTECTED TO PREVENT ACCELERATED. EROSION 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

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

NTICIPATED CONSTRUCTION WASTES ARE NORMAL CONSTRUCTION MATERIALS DURING

# RECYCLING OR DISPOSAL OF MATERIALS

OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT EGULATIONS 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

HERE ARE NO KNOWN SOIL CONDITIONS OR GEOLOGIC FORMATIONS WHICH HAVE THE OTENTIAL TO CAUSE POLLUTION AFTER EARTH DISTURBANCE ACTIVITIES ARE COMPLETED.

URING THE E&S STAGE. SEVERAL MEASURES ARE IMPLEMENTED TO PREVENT POLLUTION

# 1. 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.
- 4. A TEMPORARY TOPSOIL STOCKPILE FACILITATES FUTURE SOIL MANAGEMENT. . ADDITIONALLY, A PUMPED WATER FILTER BAG MAY BE UTILIZEI HESE COMBINED EFFORTS MINIMIZE POLLUTION RISKS DURING CONSTRUCTION.

. A CONCRETE WASHOUT AREA MANAGES CONSTRUCTION WASTE.

VHERE POTENTIAL FOR POLLUTION IDENTIFIED, MEASURES PROVIDED

O MITIGATE POTENTIAL THERMAL IMPACTS. THE PROJECT INCORPORATES PROPOSED BMPS. UNOFF FROM IMPERVIOUS AREAS WILL FLOW TOWARDS VEGETATED ZONES AND JLTIMATELY REACH THE INFILTRATION BASIN. WHERE WATER RETENTION AND

INDERGROUND INFILTRATION OCCUR. ADDITIONALLY, RUNOFF WILL BE PIPED INDERGROUND. THE GRAVEL AREAS WILL UNDERGO FILTRATION THROUGH VEGETATED

EMPERATURE WILL PROMPTLY DECREASE.

P-001: UNT - TO LITTLE CHIQUES CREEK / TSF-MF DP-002: UNT - TO LITTLE CHIQUES CREEK / TSF-MF DP-003: UNT - TO LITTLE CHIQUES CREEK (TSF-MF)

# **E&S SHEET INDEX**

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E&S PLAN: DRAINAGE MAP E5 OF 7 E&S PLAN: SITE DETAILS 1 E6 OF 7 E&S PLAN: SITE DETAILS 2

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## 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 THE EXCAVATOR, COUNTY CONSERVATION DISTRICT, EAST DONEGAL TOWNSHIP DM/A AND NCS, INC 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 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 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 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

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 SEOUENCE

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

- 2. INSTALL TEMPORARY ROCK CONSTRUCTION ENTRANCE PER PLAN SPECIFICATIONS
- . INSTALL TEMPORARY SILTSOCK PER PLAN SPECIFICATIONS AND DETAILS. 4. INITIATE ROUGH GRADING FOR INSTALLATION OF THE BARN AND DRIVEWAYS. TO THE EXTENT POSSIBLE, DISTURBANCE SHALL BE LIMITED TO THE AREA BEING GRADED AT ANY GIVEN TIME AND STABILIZED IMMEDIATELY
- INSTALL CONCRETE WASTE DISPOSAL AREA PER PLAN DETAILS AND SPECIFICATIONS. 6. INITIATE CONSTRUCTION OF THE BARN AND DRIVEWAYS. CONNECT TO EXISTING
- 7. INITIATE STRIPPING AND STOCKPILING OF TOPSOIL FROM AREAS WHICH ARE TO BE RE-GRADED FOR THE CONSTRUCTION OF THE INFILTRATION BASIN AND SWALES 1-2 WITH ROCK FILTERS 1-4. STRIPPING SHALL BE LIMITED TO THOSE AREAS WHICH ARE TO BE IMMEDIATELY RE-GRADED. STOCKPILE EXCESS SOIL AND TOPSOIL IN
- 8. INITIATE ROUGH GRADING FOR INSTALLATION OF INFILTRATION BASIN. **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
- LL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED 9. INITIATE CONSTRUCTION OF THE INFILTRATION BASIN INCLUDING CRITICAL STAGES DEFINED IN STEPS 12-15. INSTALL PRINCIPAL SPILLWAY WITH ASSOCIATED OUTLET BARREL, ANTI-SEEP COLLARS, FLARED END SECTION, RIP-RAP 1 (RR-1), AND EMERGENCY SPILLWAY, SWALES 1 & 2. CONVEYANCE PIPES 1 & 2 WITH ASSOCIATED FLARED END SECTIONS AND RR-2 & RR-3. ALL SIDE SLOPES OF THE SWALES AND BASIN ALONG WITH THE BOTTOM OF THE SWALES SHALL BE IMMEDIATELY
- STABILIZED WITH EROSION CONTROL BLANKET AND STABILIZED IN ACCORDANCE WITH THE PLAN. THE SITE IS UNDERLAIN WITH KARST GEOLOGY. DISTURBED AREAS ARE TO BE IMMEDIATELY 10. COMPLETE THE FINAL GRADING/PREFORM AND GRADING REPAIRS OF THE AREA PER THE SITE PLAN. REMOVE ALL SEDIMENT FROM E&S CONTROLS, INCLUDING ALL SILT SOXX, AND WORK INTO THE FINAL GRADING. E&S CONTROLS ARE TO REMAIN IN
  - 11. 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 DRIVEWAYS AND LOADING AREAS

- 2. 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 13. PRIOR TO INSTALLING AMENDED TOPSOIL DESIGN ENGINEER TO PREFORM
- PERCOLATION TESTING TO ENSURE THE BASIN WILL FUNCTION AS DESIGNED. CONES, MINIMIZING THEIR IMPACT. AS RUNOFF LEAVES IMPERVIOUS SURFACES, ITS AMBIENT 14. INSTALL AMENDED TOPSOIL WITHIN THE BASIN BOTTOM TO THE FINAL DESIGN GRADE PER PLAN DETAILS AND SPECIFICATIONS.
  - 15 PERMANENTLY STABILIZE ANY AREAS NOT FULLY ESTABLISHED WITH VEGETATION 16. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE LANCASTER COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO THE REMOVAL OF THE TEMPORARY BMPS
  - 17. 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. REMOVAL THE SUBMISSION OF A NOTICE OF TERMINATION TO THE LANCASTER COUNTY CONSERVATION DISTRICT.

# EROSION AND SEDIMENTATION CONTROL PLAN

# BOB BRUBAKER AG OPERATION

MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

# 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

7. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN

OTHER APPROVED METHOD. 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

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

# **OPERATION AND MAINTENANCE:**

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

WITH EACH CLEANING

MOSQUITOES. [25 PA. CODE § 102.11(A)(1)]

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

 $\cdot$  SOIL RESTORATION MAY BE REQUIRED IF EROSION IS SIGNIFICANT.

# MAINTENANCE:

1. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN 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 THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP 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 TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE 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, ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. 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 BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN

4. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THI POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR 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 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 MANAGEMENT PRACTICES (BMPS) ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALI 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 SHALL TEMPORARY EROSION AND SEDIMENTATION CONTROL STRUCTURES BE REMOVED.

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

STORMWATER INLETS, WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED.

# **STABILIZATION NOTES:**

COVER SEEDING:

MULCHING TO DETERMINE THE PROPER SOIL AMENDMENTS AND APPLICATION RATES FOR PROPOSED SEED MIXTURES.

A. COMPLETE GRADING AND EROSION CONTROL MEASURES. B. ALL GRADING AND TILLING OPERATIONS ARE TO BE COMPLETED AT RIGHT ANGLES TO THE SLOPE C. GRADED AREA SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF

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

3-5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS. D. BEFORE SEEDING BEGINS. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4-8 INCHES MINIMUM – 2 INCHES ON FILL E. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN

THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED WHEREVER POSSIBLE PRIOR TO SEEDING G. APPLY LIME AS SPECIFIED UNDER SOIL CONDITIONING AND FERTILIZATION. APPLY FERTILIZER AS SPECIFIED. (NOTE – THE ACTUAL PH OF THE SOIL SHALL BE TESTED

H. APPLY SEED AS SPECIFIED UNDER SEEDING THE ENTIRE AREA DISTURBED BY THE WORK OF THIS PROJECT, EXCEPT WHERE NOTED, SHALL BE SEEDED AS FOLLOWS:

FOR THE PROPER APPLICATION OF FERTILIZER TO BE APPLIED TO ENSURE

GERMINATION OF SEED BASED ON FIELD CONDITIONS).

# ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR THE SUBSURFACE DRAIN OR TEMPORARY SEEDING

1. FERTILIZATION – THE FOLLOWING SHALL BE SPREAD AND WORKED INTO TOPSOIL · AGRICULTURAL LIME: 1 TON PER ACRE, 40 LBS. PER 1,000 SQ.FT. OR 410 LBS. PER 1,000 · 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 SQ. FT. ANNUAL RYE GRASS - MARCH 1 TO JUNE 15, SUDAN GRASS - MAY 15 TO

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,

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

PERMANENT SEEDING - THE DISTURBED AREAS, DRAINAGE CHANNELS AND SWALES SHALL BE PERMANENTLY SEEDED (STABILIZED) AS FOLLOWS:

1. 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

2. PERMANENT SEEDING SHALL BE DONE IMMEDIATELY. A. GRASS SEEDING - KY 31 TALL FESCUE 88%: REDTOP 12% - 2 LBS. PER 1.000 SO. FT APPLY FROM APRIL 1 TO JUNE 15 OR AUGUST 15 – OCTOBER 1. WHEN SEEDINGS ARE WATERED REGULARLY, SEEDING DATES MAY BE EXTENDED FROM JUNE 15 TO

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

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

ALL SEEDED AREAS SHOULD BE MULCHED OR BLANKETED TO MINIMIZE POTENTIAL FOR FAILURE TO ESTABLISH ADEQUATE VEGETATIVE COVER.

JGUST 15. APPLY SEED UNIFORMLY BY BROADCASTING, HYDRAULIC APPLICATION

DISTURBED AREAS IN NON-GERMINATING SEASONS.

MULCHES SHOULD BE APPLIED AS FOLLOWS: 1. STRAW – 3 TONS PER ACRES, 140 LBS, PER 1,000 SO.FT, OR 1,240 LBS, PER 1,000 SO.YD. – EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN 2. HAY – 3 TONS PER ACRES, 140 LBS. PER 1,000 SQ.FT. OR 1,240 LBS. PER SQ.YD. -TIMOTHY, MIXED CLOVER AND TIMOTHY, OR OTHER NATIVE FOR AGE GRASSES 3. WOOD CHIPS – 4-6 TONS PER ACRE. 185-275 LBS. PER 1,000 SQ.FT. OR 1,650-2,500 LBS. 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 IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3J:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45°F ARE TYPICALLY REQUIRED. APPLICATION · SHOULD GENERALLY BE HEAVIEST AT EDGES OF SEEDED AREAS AND AT CRESTS OF RIDGES AND BANKS TO PREVENT LOSS BY WIND. THE REMAINDER OF THE AREA SHOULD HAVE BINDER APPLIED UNIFORMLY. BINDERS MAY BE APPLIED AFTER 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 SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL

MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH

SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT A WHERE EXCESSIVE SOIL EROSION, TRACKING OR FLOWING OF SEDIMENT IS EVIDENT

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

THE AFFECTED AREA AND MAINTAINED UNTIL PERMANENT STABILIZATION IS

ACHIEVED. CRUSHED STONE SHALL CONFORM TO AASTO DESIGNATION M43. SIZE NO. MAINTENANCE - MULCHED AREAS SHALL BE CHECKED PERIODICALLY AND IMMEDIATELY AFTER EACH RAINFALL EVENT FOR DAMAGE, UNTIL THE MULCHING I NO LONGER NECESSARY FOR PROTECTION AGAINST EROSION. DAMAGED PORTIONS OF THE MULCH OR TIE DOWN/MATERIAL SHALL BE REPAIRED AS SOON AS

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

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.

ET.SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS

SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE

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 ANALYTICAL TESTING.

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 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-1R FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL." ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASI 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 OF THE PROPERTY RECEIVING THE FILL.

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 TECHNIQUES, 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 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 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.

5. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS

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 SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE

OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE

WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. FROZEN MATERIALS

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.

DISTURBANCE ACTIVITY.

TEMPORARY AND PERMANENT STABILIZATION 1. FROSION 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

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. 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, PERENNIA 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

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

BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.

WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE

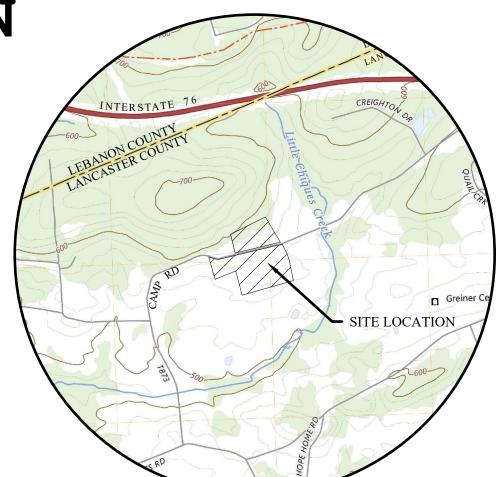
EARTHWORK QUANTITIES YARDS FILL YARDS RATIO

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 MATERIALS

BASIC CONSTRUCTION BUILDING MATERIAL WASTE IS ASSOCIATED WITH THIS



NPDES PERMIT FOR CONSTRUCTION ACTIVITY NOTES

1. THE PERMITTEE AND THE CO-PERMITTEE MUST ENSURE THAT VISUAL SITE INSPECTION

CONDUCTED BI-WEEKLY AS WELL AS AFTER EACH PRECIPITATION EVENT. THE INSPECTOR

MUST BE QUALIFIED AND A WRITTEN ACCOUNT OF THE INSPECTIONS AND THE CORRECTIV

PENNSYLVANIA QUADRANGLE-MANHEIM

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

3. ALL MONITORING RECORDS SHALL BE KEPT FOR A PERIOD OF 3 YEARS FROM THE DATE OF TERMINATION OF THE NPDES PERMI

4. ALL REASONABLE STEPS WILL BE TAKEN TO PREVENT OR MINIMIZE ANY DISCHARGES

ALTERNATE BMP WILL BE EMPLOYED AND THE PERMIT ISSUING AGENCY CONTACTED.

CONTACT WILL BE FOLLOWED BY A WRITTEN REPORT WITHIN 5 DAYS.

WHICH HAVE THE REASONABLE LIKELIHOOD OF EFFECTING HUMAN HEALTH OR THE ENVIRONMENT IN VIOLATION OF THE NPDES PERMIT 5. UPON REDUCTION OF EFFECTIVENESS OR FAILURE OF A BMP IMMEDIATE ACTION WILL B TAKEN TO RESTORE THE BMP TO NORMAL OPERATION. IF THIS CANNOT BE DONE THEN AN

6. ALL PERMITTEES AND CO-PERMITTEES WILL COMPLY WITH THE TERMS AND CONDITIONS OF THE NPDES PERMIT. ANY NON-COMPLIANCE MAY BE GROUNDS FOR ENFORCEMENT ACTION. THE PERMITTEES COULD BE SUBJECT TO CRIMINAL AND/OR CIVIL PENALTIES FOR VIOLATIONS OF THE TERMS OF THE PERMIT

7. THE OWNER OR OPERATOR OF THIS FACILITY COVERED BY THE PERMIT SHALL MAKE THE

PLANS AVAILABLE TO THE PUBLIC IF REQUESTED. EROSION AND SEDIMENTATION CONTROL PLANS MUST BE AVAILABLE AT THE SITE AT ALL TIMES. 8. THE STAGING OF EARTHMOVING AND MAINTENANCE REQUIREMENTS CONTAINED IN

THIS PLAN MUST BE FOLLOWED UNLESS AMENDED AND APPROVED BY THE LANCASTER

COUNTY CONSERVATION DISTRICT. 9. ALL BUILDING MATERIALS AND WASTE MUST BE REMOVED FROM THE SITE AND DISPOSED OF OR RECYCLED IN ACCORDANCE WITH THE SOLID WASTE MANAGEMENT REGULATIONS. NO MATERIAL MAY BE BURIED, DUMPED OR DISCHARGED ON SITE.

SEVEN (7) DAYS PRIOR TO THE START OF CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING. 11. ALL BORROW AND SPOIL AREAS SHALL HAVE AN EROSION CONTROL PLAN APPROVED BY THE LANCASTER COUNTY CONSERVATION DISTRICT PRIOR TO THEIR USE. AREAS THAT

10. THE LANCASTER COUNTY CONSERVATION DISTRICT SHALL BE CONTACTED AT LEAST

ARE OUTSIDE OF THE ORIGINAL PERMIT BOUNDARIES OR NOT COVERED BY ANOTHER NPDES PERMIT WILL BE CONSIDERED A MAJOR REVISION TO THE PERMIT. 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.

15. THE LANCASTER COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED BY SUBMISSION OF A TRANFER FORM OF ANY CHANGES IN OWNERSHIP WITHIN 30 DAYS. 16. UPON COMPLETION OF THE PROJECT A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO THE LANCASTER COUNTY CONSERVATION DISTRICT.

17. THE PERMITTEE SHALL FURNISH PROOF OF THE INSTALLATION OF THE POST

LANCASTER COUNTY CONSERVATION DISTRICT. 18. 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 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

CONSTRUCTION STORMWATER MANAGEMENT FACILITIES, IF REQUESTED BY DEP OR THE

19. AUTHORIZED REPRESENTATIVES OF THE LANCASTER COUNTY CONSERVATION DISTRICT OR OTHER AGENCIES, AS NOTED IN THE NPDES PERMIT, HAVE THE RIGHT OF ENTRY TO THI CONSTRUCTION SITE AS DEFINED IN PART 2, SECTION B, PARAGRAPH H. 20. A PREPAREDNESS, PREVENTION AND CONTINGENCY PLAN (PPC) SHALL BE AVAILABLE

# SEED APPLICATION RATES STANDARD WORKSHEET 21 (TEMPORARY)

AT THE SITE AT ALL TIMES.

RATE OF ANCHOR MATERIAL APPLICATION:

SPECIES:		ANNUAL RYEGRASS
% PURE LIVE SEED:		95%
APPLICATION RATE:		175 LB. / ACRE
FERTILIZER TYPE:		10-10-10 (X-X-X)
FERTILIZER APPLICATION RATE:		500 LB. / ACRE
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% SPECIES: SWITCHGRASS / 10% 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 LIMING RATE: 6.0 T. / ACRE MULCH TYPE: STRAW MULCHING RATE: 3.0 T. / ACRE TACKIFIER ANCHOR MATERIAL ANCHORING METHOD: SPRAY SLURRY

100 LB. / ACRE

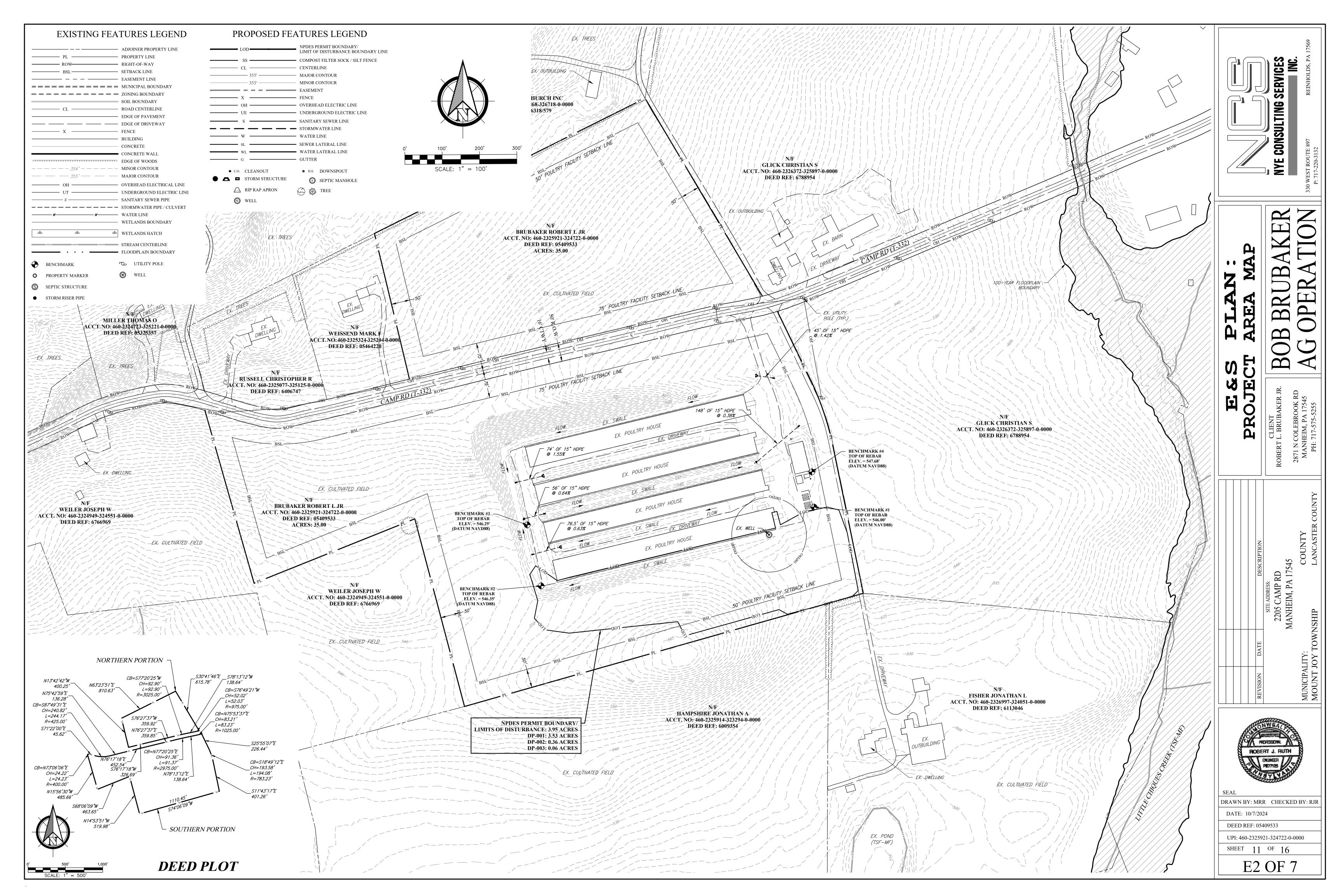
MARCH 15 - OCTOBER 1

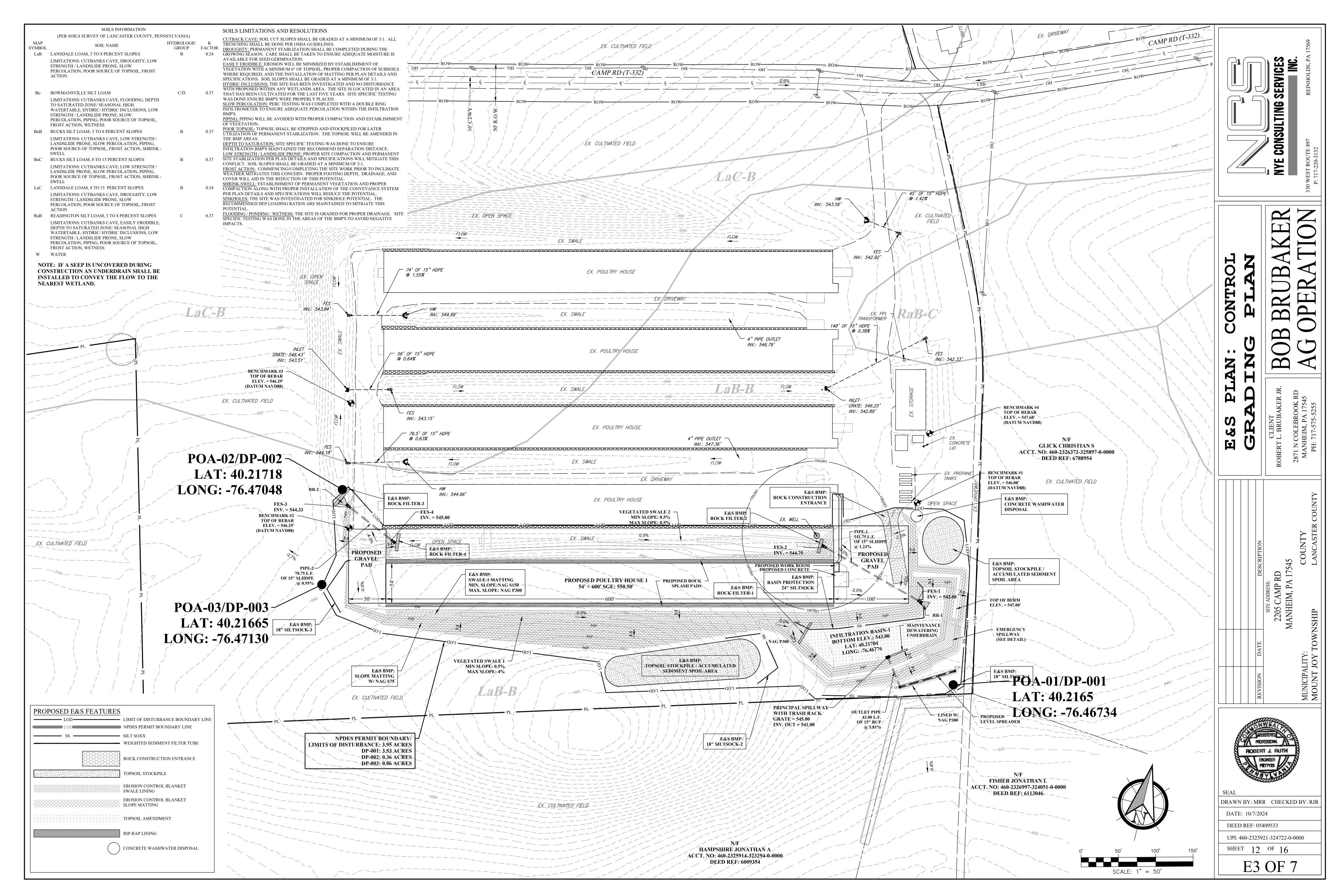
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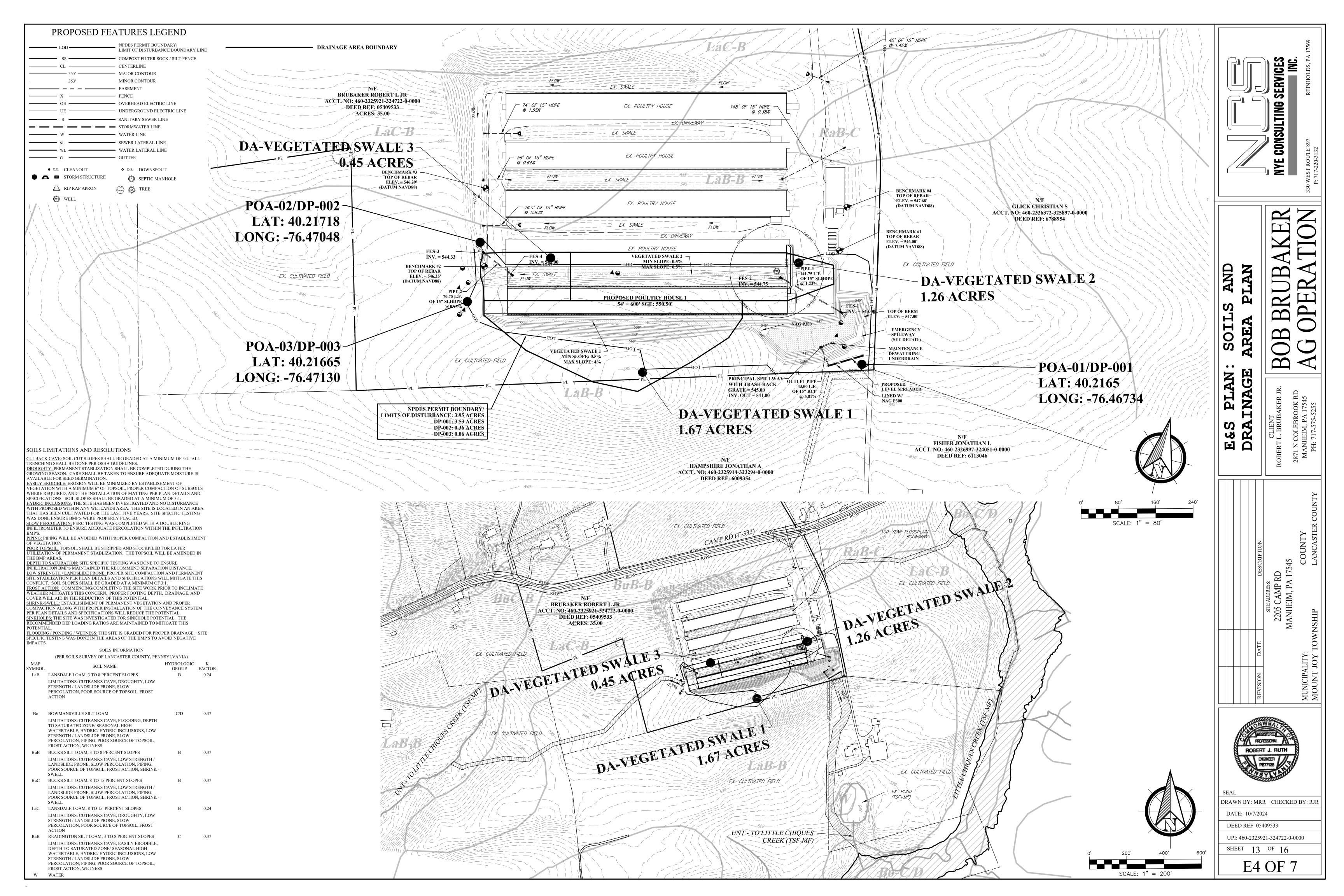
DRAWN BY: MRR CHECKED BY: RJR

DATE: 10/7/2024 DEED REF: 05409533

SHEET 10 of 16







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.

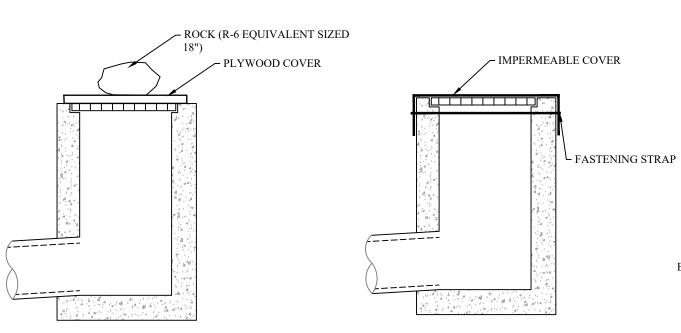
BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

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



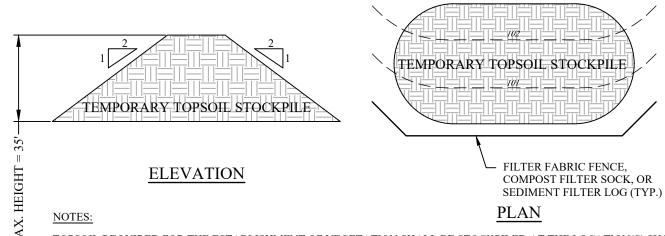
COVER TO BE INSPECTED AT MINIMUM OF A WEEKLY BASIS AND AFTER EACH RAIN EVENT TO ENSURE FUNCTIONING AS PROPOSED.

ANY DAMAGE OR DISPLACEMENT SHALL BE IMMEDIATELY REMEDIED

TEMP. EXISTING INLET SEAL

NOT TO SCALE

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.

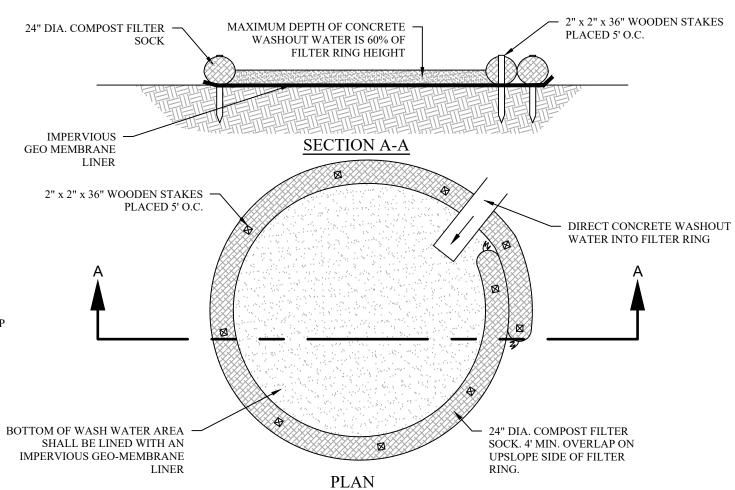
ALL STOCKPILE SEDIMENT BARRIER PROTECTION BMP'S SHALL REMAIN IN PLACE UNTIL TOPSOIL STOCKPILE AREAS HAVE

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.

TOPSOIL 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

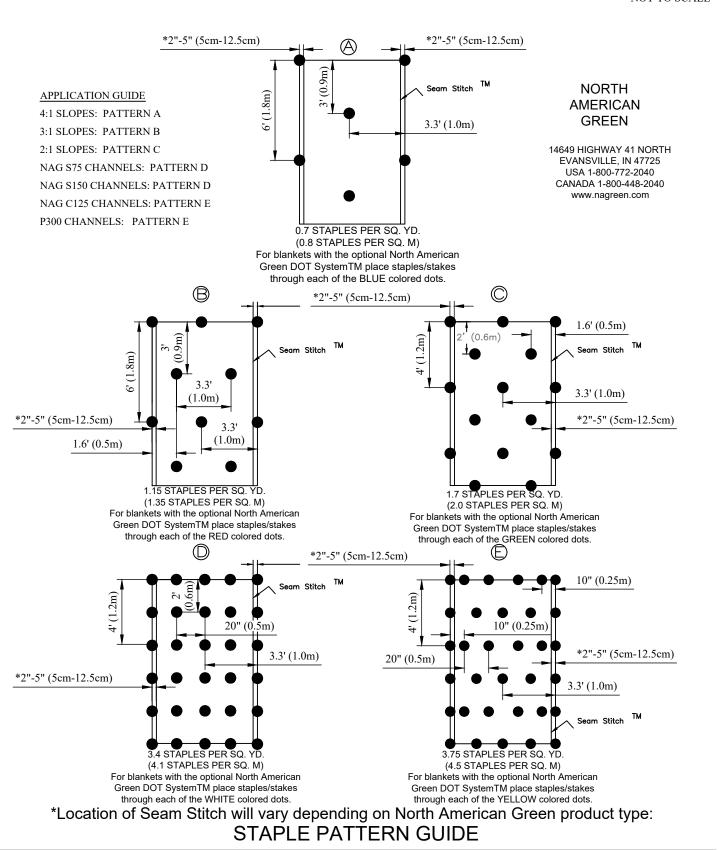
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE SOCKS IN PYRAMIDAL CINFIGURATION FOR ADDED HEIGHT. 3. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUND WATER SYSTEMS. 4. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING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

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.

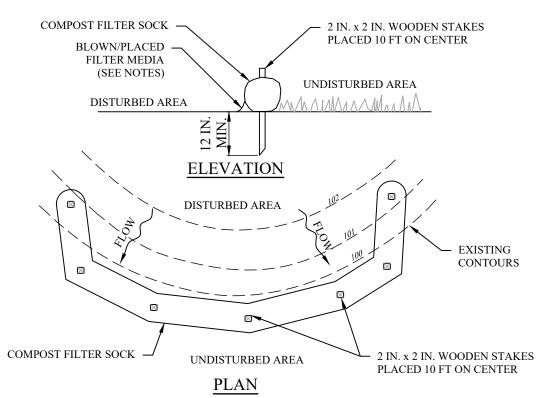
DISPOSE OF WASTE MATERIAL IN BETWEEN POURS. MATERIAL SHALL BE HAULED TO APPROVED **RECYCLING/DISPOSAL LOCATIONS OFF** 

# 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 STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL. 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 EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

OUTER FILTRATION MESH

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.

	TABLE 4.1 COM	IPOST SOCK FABR	IC MINIMUM SPEC	CIFICATIONS		
MATERIAL TYPE	3 MIL SLHDPE	5 MIL SLHDPE	5 MIL SLHDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMEN T POLYPROPYLENE (HDMFPP)	
MATERIAL CHARACTERISTICS	PHOTO - DEGRADABLE	PHOTO - 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"	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	1 YEAR	2 YEARS	
		TWO-PLY S	SYSTEMS			
	SLHDPE BIAXIAL NET					
INNER CONTAINMENT NETTING		CONTINUOUSLY WOUND				
		FUSION WELDED JUNCTURES				
		3/4" X 3/4" MAX. APERTURE SIZE				

SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.					
TABLE 4.2: COMP	OST STANDARDS				
ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)				
ORGANIC PORTION	FIBROUS & ELONGATED				
рН	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				

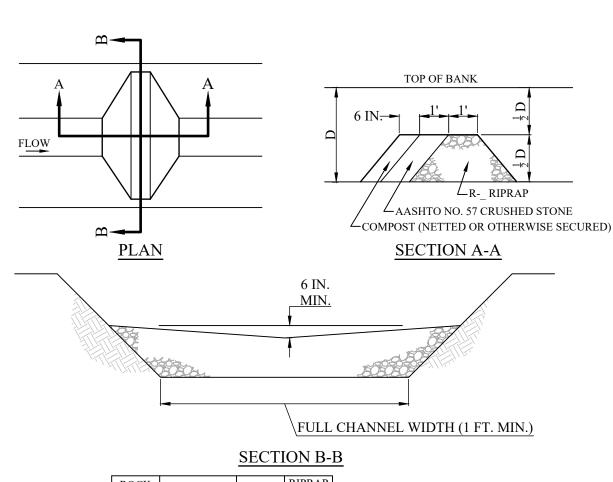
COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN

FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)

3/16" MAX. APERTURE SIZE

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

NOT TO SCALE

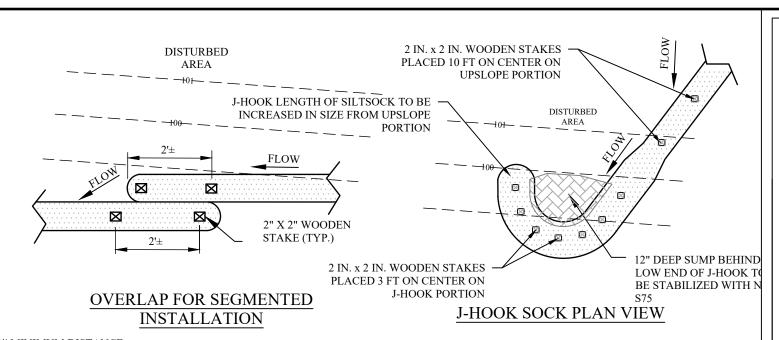


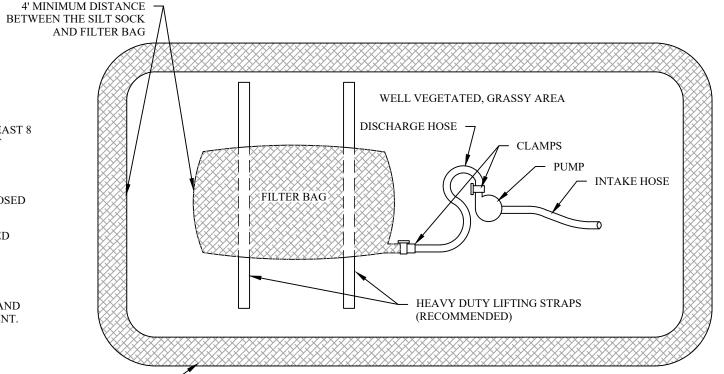
FOR D  $\geq$  3 FT. - USE R-4 SIZE FILTER | LOCATION FOR  $D \ge 2$  FT. TO D < 3 FT. - USE R-3 NOT APPLICABLE FOR D < 2 FT. SWALE-1 SWALE-2 FES-3 FES-4

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

LUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FO				
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. WHER 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

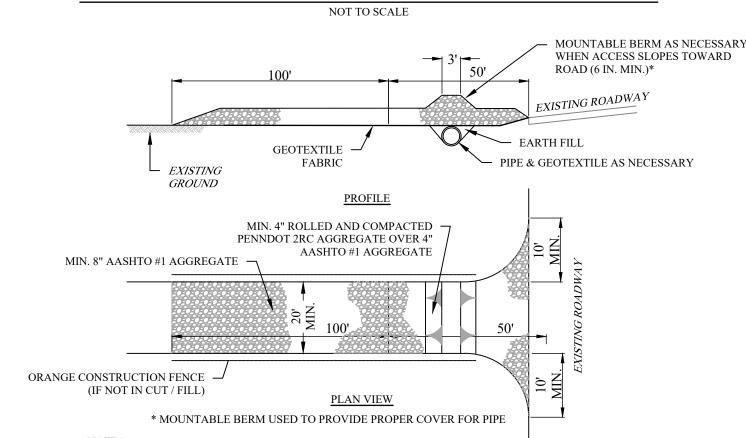
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HO OR EV WATERSHEDS. WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE

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

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



REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF

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

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. I EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION

SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH

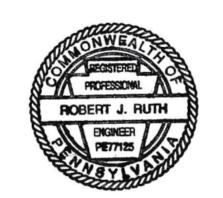
ROCK CONSTRUCTION ENTRANCE STANDARD CONSTRUCTION DETAIL #3-1

ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES I

NOT TO SCALE

ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE



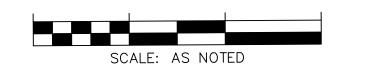


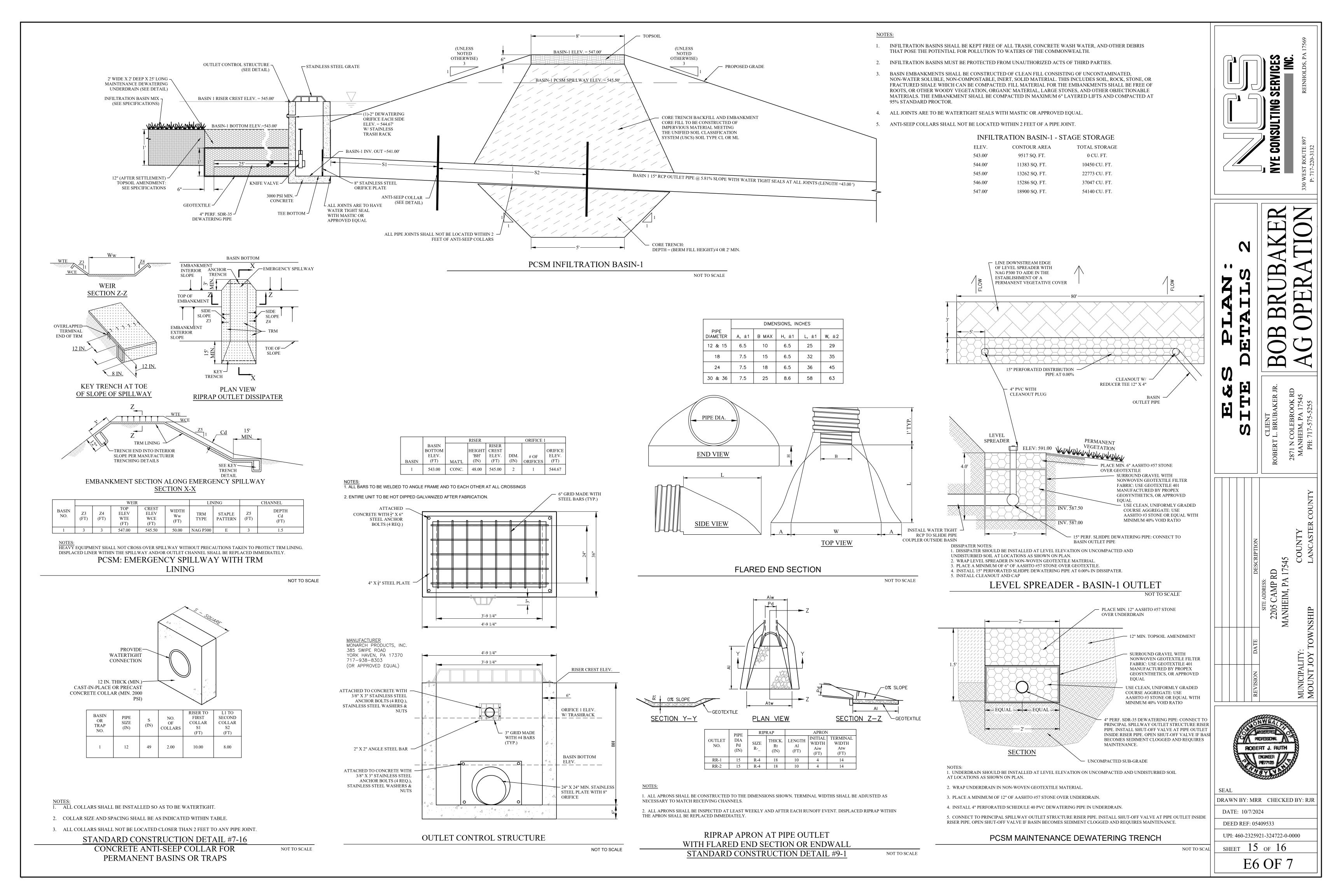
DRAWN BY: MRR CHECKED BY: RJR

DATE: 10/7/2024 DEED REF: 05409533

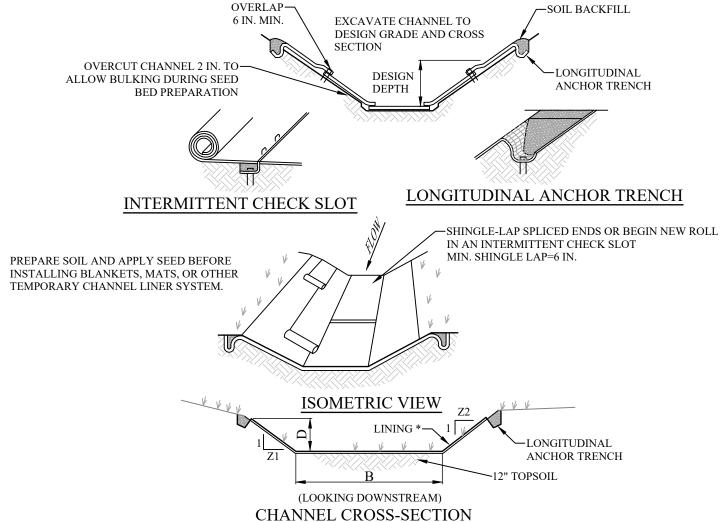
UPI: 460-2325921-324722-0-0000 SHEET 14 OF 16

E5 OF 7





CHANNEL	ВОТТОМ	PROPOSED	REQ. DEPTH	Z1	Z2	TEMPORARY	PERMANENT
ID.	WIDTH B (FT)	DEPTH	D (FT)	(FT)	(FT)	LINING *	LINING
SWALE-1 MIN.	5	2	2.00	3	3	NAG S150	VEG. CLASS C
SWALE-1 MAX.	3	2	0.98	3	3	NAG P300	VEG. CLASS C
SWALE-2MIN.	5	1.5	1.48	3	3	NAG S150	VEG. CLASS C
SWALE-2 MAX.	5	1.5	1.48	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

# NOTES

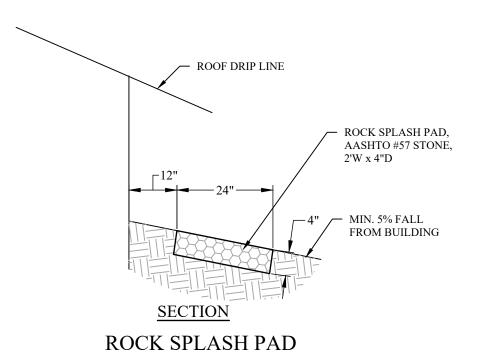
1. ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

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" TO 12" STAND.

# CHANNEL

STANDARD CONSTRUCTION DETAIL #6-1



NOT TO SCALE

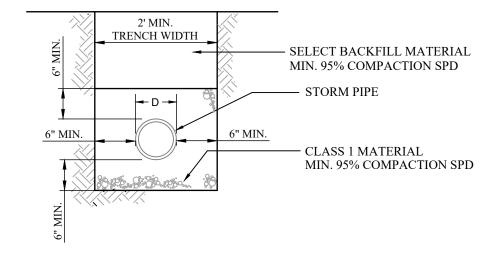
NOT TO SCALE

# 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.

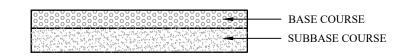
# NOTES: - BACKFILL IS TO BE MECHANICALLY TAMPED IN 6" LAYERS.

D = OUTSIDE DIAMETER OF PIPE SPD = STANDARD PROCTOR DENSITY



# TRENCH DETAIL

NOT TO SCALE



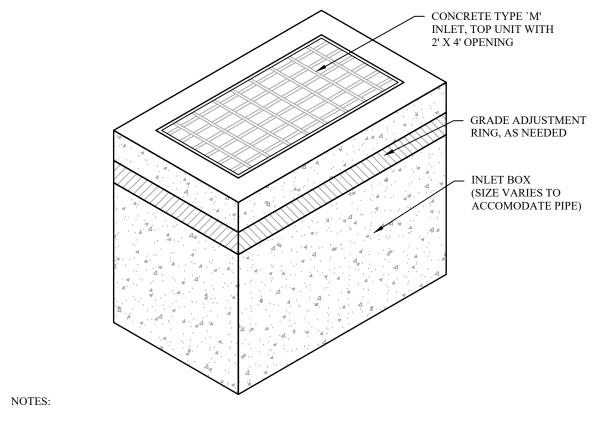
# NOTES:

- 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.

# DRIVEWAY

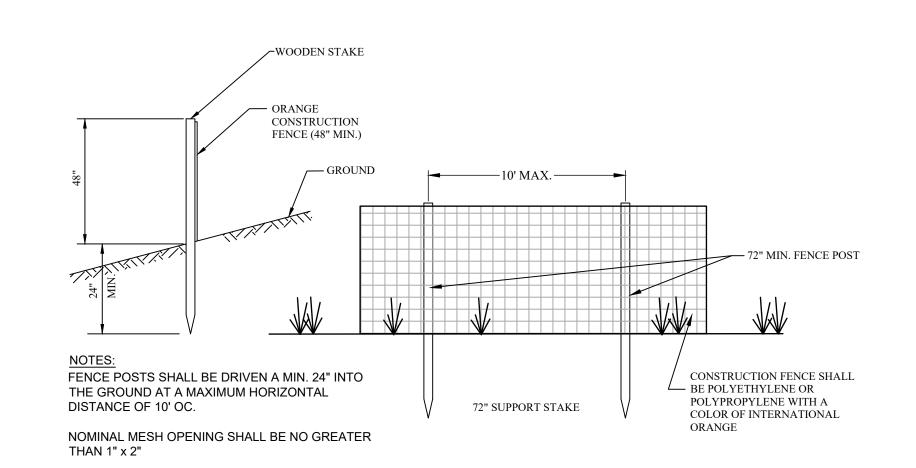
**SECTION** 

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



E DETAILS 3

R. BOB BRUBAK

ROBERT L. BRUBAKER JR. 2871 N COLEBROOK RD MANHEIM. PA 17545

CAMP RD
SIM, PA 17545
COUNTY

DATE SITE STE 2205 MANHI

MUNICIPALITY:



DRAWN BY: MRR CHECKED BY: RJR

DATE: 10/7/2024

DEED REF: 05409533

UPI: 460-2325921-324722-0-0000

SHEET 16 OF 16
E7 OF 7

SCALE: AS NOTED

November 21, 2024

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

Via email: kkaufman@mtjoytwp.org

Re: Robert Brubaker

Minor Land Development Plan Township Permit No. 24-21-MLDP

LCEC Project No: 25-182



Dear Mr. Kaufman,

We have received a minor land development plan submission from Nye Consulting Services Inc. for the above-referenced project. The submission consisted of the following documents:

- Application for Consideration of Subdivision and/or Land Development Plan undated
- Minor Land Development Plan dated October 7, 2024
- Stormwater Management Report dated October 7, 2024
- Erosion and Sedimentation Control Plan dated October 7, 2024
- Erosion and Sedimentation Control Report dated October 7, 2024
- Chapter 102 Permit Review Application and Fee Schedule undated
- NPDES NOI Checklist undated
- NPDES PAG-02 Notice of Intent dated October 16, 2024
- Discharges of Stormwater Associated With Construction Activities Erosion and Sediment Control (E&S) Module 1 dated October 11, 2024
- Discharges of Stormwater Associated With Construction Activities Erosion and Sediment Control (E&S) Module 2 dated October 11, 2024
- Erosion Potential Analysis for Ch. 102 Permits dated October 11, 2024
- PNDI municipal notification undated
- Draft PNDI Receipt dated October 14, 2024
- Ch. 102 Municipal Notification of Planned Land Development for Ch. 102 Permits October 1, 2024

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

### **Zoning Ordinance**

- 1. The maximum height requirements for buildings devoted to agricultural uses are exempt from height regulations (135-85.A). The maximum building height in the Bulk Siting Data table shall be revised to reflect this.
- 2. The minimum lot size listed in the Bulk Siting Data table shall be 25 acres (135-85.C(3)).

- 3. The minimum lot width listed in the Bulk Siting Data table shall be 100 feet (135-85.D).
- 4. The minimum lot depth shall be added to the Bulk Siting Data table (135-85.E).
- 5. The maximum building coverage shall be added to the Bulk Siting Data table (135-85.I(1)).
- 6. The "total impervious coverage" value under the "Proposed Features" on the Cover Sheet is inconsistent with the impervious coverage shown on the plans (135-85.I(2)).
- 7. 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 (135-212.D).
- 8. An exterior lighting plan shall be submitted if site lighting is proposed (135-298.D).
- 9. Slopes greater than 15% shall be shown on the plans, as well as a differentiation of slopes between 15% and 25% and those greater than 25% (135-305.A).
- 10. Cross access easements shall be provided for all joint-use driveways (135-321.C).

## **Subdivision and Land Development Ordinance**

- 11. The plans shall be signed and sealed by a registered engineer, surveyor or landscape architect (119-31.A(5)).
- 12. The subdivision plan book and page shall be shown on the plan for the subject tract (119-31.B(10)).
- 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 plan shall identify all prior plans, including all notes or restrictions affecting the current development, with a verification signed by the design professional that such list is complete and correct (119-31.B(14)).
- 15. The plan book record numbers of all adjacent landowners shall be shown on the plan (119-31.C(2)).
- 16. The existing driveways shall be dimensioned (119-31.C(3)(a)).
- 17. The location and size of the existing stormwater management facilities within Camp Road shall be added to the plan (119-31.C(3)(d)).
- 18. The existing drainage easement and replacement easement for on-lot septic as shown on the subdivision plan recorded in Book J-214, page 106 for Joseph B. and Barbara K. Zook and Elam B. and Sarah F. Zook shall be shown on the plans (119-31.C(4)(b)).
- 19. The existing sewage disposal system shall be shown on the plans (119-31.C(4)(b)).
- 20. The existing sanitary sewer lateral and water service lines shall be shown (119- 31.C(4)(b) & 113-43.I(2)).
- 21. The total number of lots, units of occupancy and density shall be provided on the plans (119-31.D(3)).
- 22. The proposed area and bulk requirements shall be added to the Bulk Siting Data table for the Agricultural District (119-31.D(9)).
- 23. A water and sewer feasibility report shall be provided (119-32.A & 119-35.E(3)(b)).

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- 24. A wetlands study shall be provided (119-32.B & 119-34.E(3)(c)).
- 25. The Recorder of Deeds Certificate shall be removed. The Lancaster Recorder of Deeds will apply a header along the top of the plan (typically within the first inch) when it is recorded. It is advised to leave a 11/4" margin along the top of the plan sheet to avoid having information covered by this header (119-35.A).
- 26. All certificates shall be executed prior to final plan approval (119-35.E).
- 27. 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) & 119-60.A).
- 28. 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)).
- 29. Legal descriptions for easements to be dedicated to the Township shall be provided (119-35.E(4)(a)).
- 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. A land development agreement in a form acceptable to the Township Solicitor shall be executed (119-35.E(4)(f)).
- 32. A construction cost estimate and financial security shall be provided (119-41 & 113-60).
- 33. The frontage along Camp Road shall be improved in accordance with 119-52.J or as indicated on the Township Official Map, whichever is greater. (119-52.J(3)(a) & 119-53.B(2) / 119-53.C). The required cartway width for a local street outside of the urban growth area is 24 feet.
- 34. 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)).
- 35. The clear sight triangle for the existing driveway shown on Sheet 4 of the plans shall be consistent with Appendix No. 14 (119-52.L(1)).
- 36. Drainage easements shall be provided for the existing stormwater facilities on the existing Lot 1. Drainage easements shall be a minimum of 30 feet wide. The applicant shall be responsible for completing a declaration of easement and stormwater management agreement in a form that is acceptable to the Township Solicitor (119-56.E).
- 37. Evidence of approval of the NPDES Permit and Erosion and Sedimentation Control Plan by the Lancaster County Conservation District shall be provided (119-58.A, 113-31.D, 113-45.C & 113-45.B).
- 38. Any action taken on waiver requests, dates, and any conditions of approval shall be added to the cover sheet (119-91.C & 113-96).

## **Stormwater Management Ordinance**

- 39. Compost filter sock shall be provided between the northern topsoil stockpile and Infiltration Basin-1 (113-31.E & 113-43.K).
- 40. The "Underlain Geology" certificate on the Cover Sheet shall be revised to be consistent with the carbonate geology certificate (113-31.J.(4)).
- 41. The test location names shown in the Soil Field Sheets and in the Data Collection Chart for 6 & 12 Inch Infiltration Rings worksheets in the Stormwater Management Report are inconsistent with the infiltration test and probe names shown on the plans (113-31.L).
- 42. The stabilized infiltration rate is to be determined within the same soil horizon as the bottom of the infiltration facility (113-31.L(2)(a)). The depth of percolation of test location "p2" is inconsistent with the depth of "Perc 2" shown on Sheet 4 of the plans. Due to this inconsistency, it is unclear if this requirement has been met.
- 43. To the maximum extent practicable, areas proposed for infiltration BMPs shall be protected from sedimentation and compaction during the construction phase to maintain maximum infiltration capacity. Staging of earthmoving activities and selection of construction equipment shall consider this protection (113-31.0). The plan shall show the provisions for protecting the infiltration basin during construction (e.g. construction fence around infiltration area).
- 44. Calculations shall be provided to show that the volume control requirements have been met (113-32.A(1)). Evidence (i.e. Worksheet 4 or DEP PCSM Spreadsheets) shall be provided for the volume control information (i.e. Infiltration Requirement, Infiltration Credit, 2-yr Pre-Development Volume, 2-yr Post-Development Volume, etc.) shown in Tables 4-6 (pages 8-10) in the Stormwater Management Report.
- 45. The Ordinance requires the loading ratio for the total drainage area to infiltration area to be less than 8:1 (113-32.A.(2)(c). A total loading ratio of 9:1 is proposed. Per Ordinance 312-2017 the Township Engineer can approve higher loading ratios (no modification is necessary).
  - <u>Approval response:</u> The loading ratio guideline is a recommendation intended to prevent infiltration of a substantial volume of water in a very small area (especially in Karst areas), to limit excessive depth of water in infiltration facilities and to avoid lengthy dewatering/drawdown times. The proposed impervious drainage area to infiltration area loading ratio meets the ordinance requirements and the total loading ratio is just over the recommended ratio. In addition, the proposed Infiltration Basin 1 is not in a Karst area and has been designed to capture a depth of 0.86 feet for the 2 year storm with a dewatering time of 24 hours, which will mitigate each of the risk factors described above. Given these considerations, I have no objection to the higher ratios.
- 46. The post-development Post-DA to Basin DP-001 drainage area boundaries should be revised to reflect the existing and proposed contours (113-35.B).
- 47. The hydrographs shown in the Hydrograph Return Period Recap worksheet for the proposed conveyance facilities shall be provided (113-35.F).
- 48. The pipe diameter shown in the Standard Construction #7-16 detail is inconsistent with the pipe diameter shown in the PCSM Infiltration Basin-1 detail (113-37.A(1)(b)[2]).
- 49. The impervious core shall provide a minimum trench depth of two feet below existing grade (113-37.A.(3)(a)[2][a]). The location of the key trench/clay core shall be shown on the plans.

November 21, 2024 Page 4 of 6

- 50. The core shall extend four feet below any pipe penetrations through the impervious core (113-37.A.(3)(a)[2][c]).
- 51. The side slopes of the proposed aboveground impervious core/key trench shall be 1H:1V or flatter (113-37.A.(3)(a)[2][a]).
- 52. Note 3 of PCSM Infiltration Basin-1 shall be revised to include the specification that the embankment fill material be free of rubbish, stones greater than six inches, or frozen material (113-37.A.(3)(c)).
- 53. A note shall be added to the plan to specify that embankments/clay core shall be compacted by sheepsfoot or padfoot roller. The loose lift thickness shall be nine inches or less, depending on roller size, and the maximum particle size is six inches or less 2/3 of the lift thickness. Five passes of the compaction equipment over the entire surface of each lift is required. Embankment compaction to visible nonmovement is also required (113-37.A.(3)(d)).
- 54. The minimum slope for swales shall be 1.0% (113-37.C(1)(d)[4]). Vegetated Swales 1 and 2 shall meet this requirement.
- 55. There are inconsistent maximum slopes shown in the Vegetated Swale 1 labels on Sheets 4 and 12 of the plans (113-37.C(1)(d)[4]).
- 56. The Trench Detail shall specify the backfill material above the Class 1 material (113-37.C(3)(a)).
- 57. A note shall be added to the plan to specify that backfill material 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 (113-37.C.(3)(a)).
- 58. Watertight joints shall be specified for the SLHDPE pipes (113-37.C(3)(d)).
- 59. The grading for Vegetated Swale 1 and 2 does not appear to match several of the values shown in the Channel Cross Section detail (113-37.C(5)).
- 60. Swales shall be evaluated for stability based upon an "n" value equal to 0.03 (113-37.C.(5)(c)[1][a]).
- 61. Flared end sections shall be the same material as the connecting pipe (113-37.C(9)(a)). The material of the flared end section shown in the Flared End Section detail shall be specified.
- 62. The landowner shall execute the final documents prior to final plan approval (113-41.B).
- 63. A SWM site plan approval certification shall be added to the plans (113-43.E).
- 64. Elevation labels shall be added to the existing minor contours (113-43.I.(1)).
- 65. A note identifying any recorded stormwater management agreements affecting the subject property (or that none exist) shall be included on the plans (113-43.I(6)).
- 66. The proposed 447 contour within Swale 2 shall be corrected (113-43.J(1)).
- 67. The proposed downspout locations shall be shown on the plans (113-43.J(5)).
- 68. The location of the inlet shown in the Type 'M' Inlet detail shall be shown on the plans (113-43.J(5)).
- 69. The location of the fence shown in the Orange Construction Fence detail shall be shown on the plans (113-43.J(5)).

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- 70. The expected project schedule shall be added to the plans (113-44.E).
- 71. A note shall be added to the plans to specify that following approval of the as-built plan by the Township Engineer, the applicant shall submit the SWM site plan for recordation in the office of the Recorder of Deeds (113-58.C).
- 72. An operation and maintenance (O&M) agreement shall be provided and recorded with the final plan (113-62).

If you should have any questions or need additional information, please do not hesitate to contact me at <a href="mailto:bencraddock@lancastercivil.com">bencraddock@lancastercivil.com</a> or via telephone at 717-799-8599.

Sincerely,

Benjamin S. Craddock, PE, President

LANCASTER CIVIL

Banjamin S Carlock

cc: Justin Evans, AICP, Community Development Director/Zoning Officer (via email)

Patricia Bailey, Township Secretary (via email)

Josele Cleary, Esquire, Township Solicitor (via email)

Bert Nye, Nye Consulting Services, Inc. (via email)

Robert Ruth, Nye Consulting Services, Inc. (via email)

Renee Addleman, Planner, LCPC (via email)