

September 19th 2023
Chestnut Hill Community
Association
Development Review Committee
Meeting

- 1. Project Summary
- 2. Existing Conditions
- 3. Project Details
- 4. Technical drawings
- 5. Community Outreach and Important Dates

VALLEY GREEN RUN RESTORATION & PEDESTRIAN BRIDGE









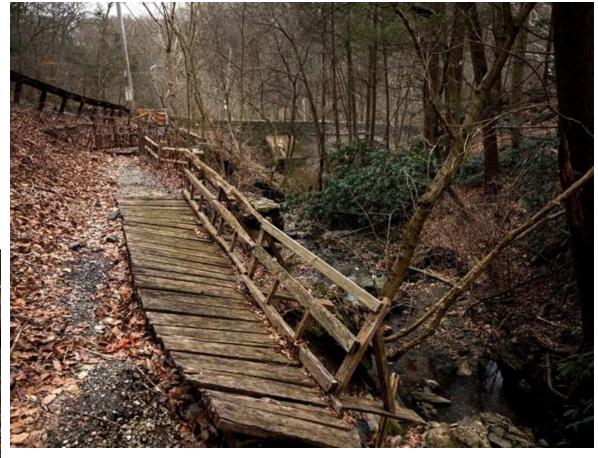
Summary:

- Continue restoration efforts of Valley
 Green Run, while adding a new signature feature to the Park.
- Project is led by Skelly & Loy, with CVMNEXT Construction and Krieger + Associates Architects subcontracting, in partnership with Philadelphia Parks & Recreation, and the Philadelphia Water Department
- Both stream restoration and pedestrian bridge design work is complete and permit ready
- Joint permit from PA DEP & USACE has been issued
- Construction expected to commence Spring 2024
- Valley Green Road, below Wolcott Drive, will be closed for duration of construction

Current Conditions:

- Severe bank erosion on both sides of Valley Green Run, contributing 400 cubic feet of sediment discharge annually
- Unsafe pedestrian access along Valley Green Road due to collapsed wooden boardwalk





Goals:

- Reduce sediment discharge through bank stabilization and restoration of streambed with naturalistic, boulder-bed, step-pools
- Restore safe pedestrian access to Valley Green Area with construction of pedestrian walkway





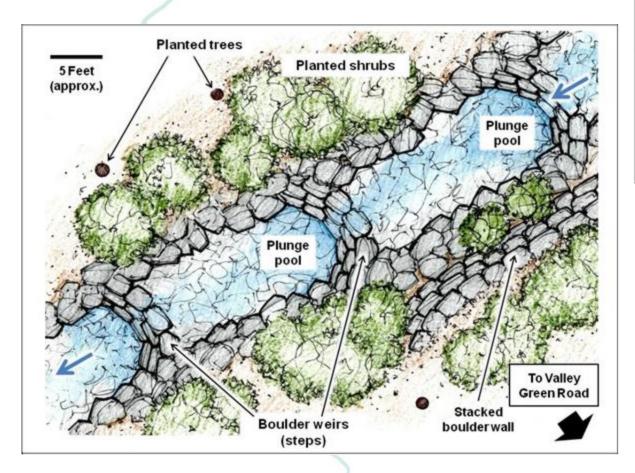


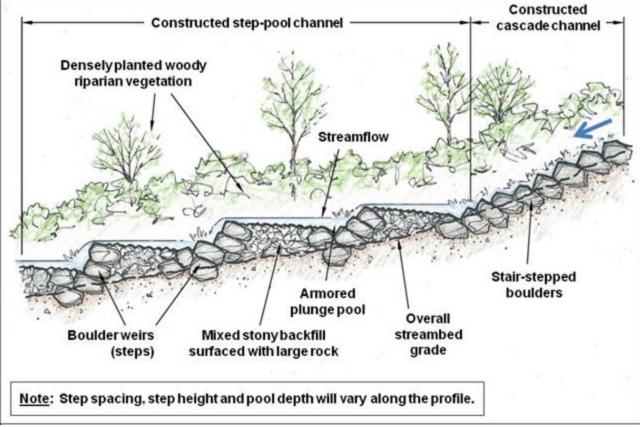


VALLEY GREEN RUN RESTORATION

Streambank restoration:

 Construction of boulder step-pools and bank revetments to reduce speed and force of water, and create resilience



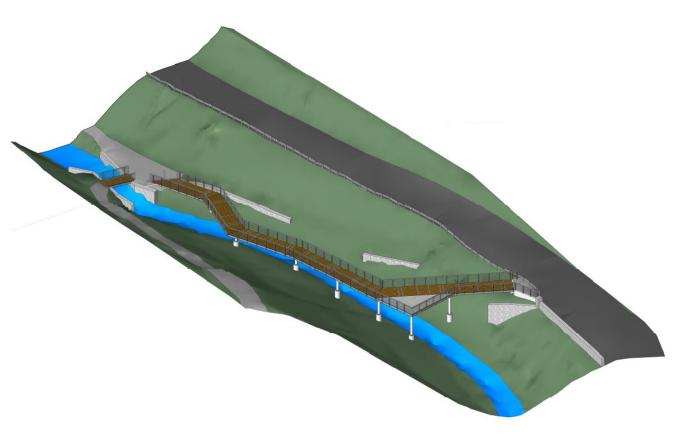


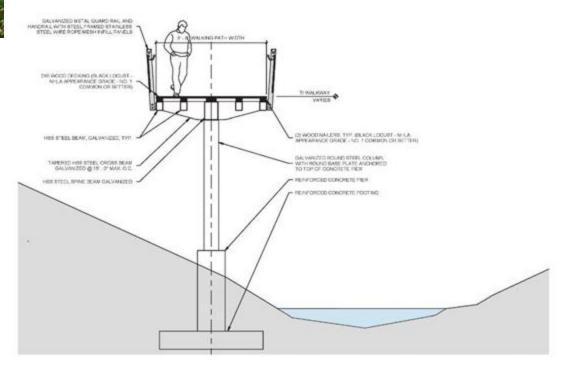
- Shift centerline of stream away from Valley Green Road to protect it
- Regrade of the streambank to accommodate riparian plantings
- Restore ecological function of riparian buffer to filter nonpoint source pollution coming from Valley Green Road

VALLEY GREEN RUN PEDESTRIAN BRIDGE

Bridge Design:

- Length will be approximately 200 feet long and have an added viewing platform
- To maximize resiliency, bridge will not be load bearing on streambank

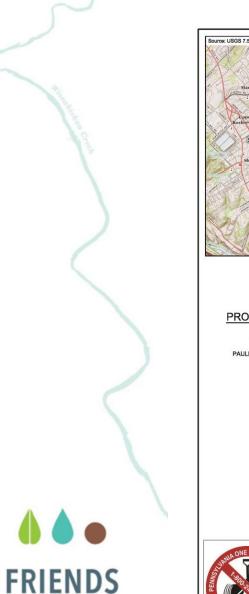




It will have a galvanized steel superstructure, supported by concrete piers and footings

The bridge will have a Black Locust wood decking and the viewing platform will have steel grating

The guardrail and handrail will be stainless steel with a steel wire rope mesh infill





O' 2000' 4000'

PROJECT CONTACT INFORMATION

FRIENDS OF THE WISSAHICKON RUFFIAN TITTMANN, EXECUTIVE DIRECTOR PAULINE BERKOWITZ, CAPITAL PROJECTS COORDINATOR (215) 247-0417

> SKELLY AND LOY, INC. MICHAEL LOWER, P.E. DANIEL AUNGST, P.E. CALVIN BUSH, P.E. (717) 232-0593



VALLEY GREEN RUN RESTORATION

PHILADELPHIA, PENNSYLVANIA

PREPARED FOR



FRIENDS OF THE WISSAHICKON

40 WEST EVERGREEN AVE, SUITE 108 PHILADELPHIA, PA 19118 PREPARED BY



449 EISENHOWER BOULEVARD SUITE 300 HARRISBURG, PENNSYLVANIA 17111-2302

	GENERAL DRAWINGS			
G-101	COVER			
G-102	NOTES			
	ERSA DRAWINGS			
ERSA-101	EXISTING RESOURCES AND SITE ANALYSIS MAP			
	DEMOLITION DRAWINGS			
X-101	DEMOLITION PLAN			
	RESTORATION DRAWINGS			
R-101	SITE PLAN			
R-201	PROFILE			
R-301	SECTIONS			
R-501 THRU R-502	DETAILS			
EROSION &	SEDIMENT POLLUTION CONTROL DRAWINGS			
ES-101	EROSION & SEDIMENT POLLUTION CONTROL PLAN			
ES-501 THRU ES-503	EROSION & SEDIMENT POLLUTION CONTROL DETAILS			
	LANDSCAPE DRAWINGS			
LS-101	LANDSCAPE PLAN			

1000 to 1000 t	TEL: (717) 232-0693 - FAX: (717) 232-1799 - WWW skellykoy.com
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3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNIARGED, THE PENNISYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-860-242-1778 FOR THE LOCATION OF EXISTING UNDERFORCING UTLIFIES.

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7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOURDARDS SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS REGIS

A TOPROI, REQUIRED FOR THE ESTABLEMBENT OF VEGETATION SHALL BE STOCKHED AT THE LOCATION(S) SHOWN ON TH PLAN MAPPER) IN THE ARKINAT NECESSARY TO COMMETTE THE FRIEND REQUIRED OF A TOPROSED ARKINATATION TO SE STABLEDD BY VEGETATION, EACH STOCKHED SHALL BE PROTECTED IN THE MANRIER SHOWN ON THE PLAN DRAWINGS. STOCKHED HEIGHTS SHALL NOT EXCEED SEFETS. TECKNIPLE SLOPES SHALL BE ZENT OF RATTER.

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TH THE DEPARTMENT'S SOUD WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 289.1 ET SEG., 271.1, AND 287.1 ET. SEG. N ILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT E SITE.

11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN EAS PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

12. THE CONTINUED IS RESPONSIBLE FOR BRIGHING THAT ANY MATERIAL BROUGHT ON SITE IS CLAPA FILL FORM PROVIDED IN THE REVISION OF A RESILLAND FOR THE PROPERTY OF THE PROVIDED IN THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF A RESILLAND FOR THE PROPERTY OF A RESILLAND FOR THE PROPERTY OF A RESILLAND FOR THE PROPERTY OF THE PROPERTY OF

OVER UNDISTURBED VEGETATED AREAS.

14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE ONTO VALLEY
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16. A LOG SHOWING DATES THAT EAS BIMPS 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

17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE INN OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIPTION THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE

18. ALL BERMINT REMOVED FROM IMPROMEMENT LIB CIRPORED OF IN THE MANIER DESCRIBED ON THE PLAN DRAWMOR.

18. AREAS WHICH ARE TO BE TOPOSILED SHALL BE SCARRED TO A INHIMAM DEPITH OF 3 TO 5 HOCHES — 6 TO 12 HICHES ON IMPLICATION TO SEEDING AND MILLORING, FILL OFFICE OFFICE SHALL HAVE A MINIMAL OF 2 HICHES OF TOPICA.

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IN PLACE PRIOR TO SEEDING AND MULTIPING, HILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCRES OF TOPPOUL.

20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EXOSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER
RELATED PROBLEMS, FILL INTENDED TO SUPPART SULDINGS, STRUCTURES AND CONDUITS, ETC. SHALL SE COMPACTED.

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

22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS
 FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR BUBBURFACE DRAIN OR OTHER APPROVED METHOD.

26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES COMPETENT BESTOCK AND ROCK PILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN SO PEET OF A SURFACE WATER, I OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.

22. MMEDIATRLY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBMARIA OF THE PROJECT, THE OPERATION BHALL STREAMED AREA STREAMED AREAS DURNON IN-MISSIONATION SUCKIMIS MALLOH ON PROTECTIVE SEAWERTHS SHALL SEA APPLIED AS DESCRIBED IN THE PLAN. AREA ON AT PROSEDUD CONCERNMENT WILL SHE SECRETARIES HAVE SEA STREAMED IN COCKRIBED IN THE PLAN AREA STREAMED IN ADMINISTRATION SHOWN SHE WHICH HAVE NOT SHEET AND AREA STREAMED AREA SHALL SET STREAMED IN ADMINISTRATION SHOWN SHEET STREAMED AND AREA SHALL SHALL SHEET STREAMED AND ADMINISTRATION SHOWN SHEET STREAMED AND AREA SHEET STREAMED.

26. PERMANENT STRALLEZITION DE PINIED AS A NIMIMMU UNE COMA, PERENNAL, 755 VEGETATIVE COVER OR CHIERI PERMAN NON-MEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESISTA CACLEARIST ACCULTANT DE ROSSION, CUT AND FILL SCOPES SHALL BE CAPABLE OF RESISTING FALLINE DUE TO SUMPRIO, SUDINO, OR OTHER NOVEMBETS.

29. ESS DEBOS SHALL DESHAN I INSTANTANIA DE SICILII NITILI ALI ADEAS TOBILITANY TO TIMEN ADES SCHARLEST VETABLICED.

28. EAS BIMPS SHALL REBAIN FLINCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEN ARE REFINAMENTLY STABLIZED OR UNTIL THEY ARE PRIVACED BY OWNER BIMP APPROVED BY THE LOCAL CONSERVATION DESIGNED OR THE DESTABLIZATION. SO, UNDO COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABLIZATION OF ALL DISTURBED AREAS, TO CHARLE AND ON DESTATOR SHALL CONTROL OF CONSERVATION DISTRECT FOR AN INTERFECTION PROPERTY.

31. ATTER FINAL SITE STABLIZATION HAS BEEN ACHEVED. TEMPORARY EROSION AND BESIMENT SHIPS MUST BE RESIDUED CONNECTED TO PERMANERAT FOR CONSTRUCTION TO RESIDUED AND RESIDUED AN

32. UPON COMPLETION OF ALL SAFET INSTRUMENTS AND FEMALEST TRANSLATIONS OF ALL DETIRED PAREA, THE OWNER ARRORD CHRONIC SHALL CORRECT TO COMPLEX CONTROL OF THE TRANSLATIONS OF ALL DETIRED PAREA, THE OWNER ARRORD CHRONIC SHALL CORRECT TO PREVIOUS SERVICE SHALL CONTROL OF THE CARRON THE SAFET AND ARRORD CHRONIC SHALL CORRECT TO SHALL CONTROL OF THE CARRON THE CARRON THE CARRON CHRONIC SHALL CORRECT TO SHALL CONTROL OF THE CARRON THE SAFET AND ARROWS CORRECT TO SHALL CORRECT TO SHALL CORRECT TO SHALL CORRECT TO THE PERSON LANGE CLARK STRUMENT SHALL CORRECT TO SHALL CORRECT TO SHALL CORRECT TO THE PERSON LANGE CLARK STRUMENT SHALL CORRECT TO SHALL CORRECT TO THE PERSON LANGE CLARK STRUMENT SHALL CORRECT TO SHALL CORRECT TO THE PERSON LANGE CLARK STRUMENT SHALL CORRECT TO THE PERSON

AS PLAN NOTES - PENNSYLVANIA ADDITIONAL

1. CONCRITE WARM WATER SHALL BE HANDLED IN THE MANIOR DESCRIBED ON THE PLAN DRAWNOS. IN NO CASE SHALL IT SE ALLOWED TO ENTRY ANY SHAPACE WHERE OR GROUNDATER SHYTEMS. 2. ALL CHAMPLES SHALL SE LEFF FRES OF DISTRICTION IN LONG BUT NOT LIMITED TO FILL ROCKS, LEAVES, WOODY DEBRIS. ACCUMALATED SECURITIES, DESCRIBED FROM THE ANY SHAPE OF THE PROPERTY OF T

3. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE MINIDIATELY SUCCEPTED AND THE CHANNEL RESTORED TO THE ORIGINAL GROSS-SECTION AND PROTECTHE LINKS, ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONNECTED PAST THE WIND REPORT AND THE MANNER DESCRIBED IN THIS PLAN UNIT. SUCH RESTORATION IS COMPLETE.

CHANNEL SHANDER REPORT DESCRIPTION MATTERS OR GRADINULINGOR WITH THE RESPECTANTLY OVERSECURATED BY THAT THE

A. CHANNELS HAVING REPARP, REPOR MATTRESS OR GARDION LINKINGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DEBENSION WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINKING.

5. EROSION CONTROL BLANKETING SHALL BE SISTALLED ON ALL SLOPES 36-1/1/08 (TEEPER WITHIN SO FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AFMAS SPECIALD ON THE PLAN MAY BARDION BETAL HEIGHTS.

FILL MATERIAL FOR EMBANIMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL LARI COMES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANIMENT SHALL BE COMPACTED IN MAXIMUM 6" LAYERED LIFTS NI DÉNOITY.

E&S PLAN NOTES - PHILADELPHIA STANDARD

 AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PAMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION ALL PAMPING OF WATER FROM ANY WORKLARDS SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTRUCED VIGETATED AREAS.

INLET PROTECTION MUST BE PROVIDED FOR ALL INLETS OWNED BY PWD THAT ARE LOCATED WITHIN ONE BLOCK OF THE ROJECT SITE.

3. PMD IS NOT RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE DUE TO FAILURE ANY EROSION AND SEDIMENT CONTROL PRACTICES. (APPLICANT TO INDICATE RESPONSIBLE PARTY). A INDICECTION AND MAINTENANCE OF ALL EDIMENT AND SCRIBAGE CONTROL RESPONSIBLE PARTY.

4. IMPECTION AND MAINTENANCE OF ALL ENGINEN AND SEDMENT CONTROL BEST MANAGEMENT PRACTICES SHALL OCCUR ON A MEERLY BASIS SEPORE ANY ANTI-OPATED PREDICTION OF VERTILS.
5. THE MOSIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 20 FEET. THE MASSIMUM SLOPE FOR STOCKPILE AREAS SHALL NOT ENGED 2:1.

6. THE ROCK CONSTRUCTION ENTRANCE THEORIESS SHALL BE CONSTANTLY MANYAMED ON-SITE. A STOCKIPLE SHALL BE MANTANIZED ON HITE FOR THIS PHYROSE AT THE BOD OF EACH CONSTRUCTION DAY, ALL EDIMENTS DESCRIPTED ON PANYA ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SMOPT INTO ANY ROADSIDE DITCH, STORM SEVERE, OR SURFACE WASTE.

7. IF ITED FAMOU TEMES BEACH DIS RETALLED A LIVING SPACE, BOTH BODD OF EACH FERCE SECTION HHOLD DIS EXTENSION OF THE STATE OF THE SECTION HHOLD DISCUSSION TO SECTION HAD SECTION HIDDER TO SECTION HAD SECTION TO SECTION HAD SECTION TO SECTION HIDDER TO SECTION HAD SECTION HAD SECTION TO SECTION HAD SECTION HAD SECTION TO SECTION HAD SECTION

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14. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWNOS, DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY PWD AND THE PA DEP PRIOR TO BAPLEMENTATION.

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

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17. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER MELAS OUTSIDE THE LIMIT OF DISTURBANCE CONCLAIMEDS SHOWN ON THE FLAI MAN'S. THESE MEASS MAD'T BE CLEARLY MANGED AND TRACED OF SEPCISE CLEARNS AND CHESING OPERATIONS SECRI.

18. A LOG SHOWNED ATTES THE CASS SHAPS WERE INSPECTED AS WELL AS MAY DEFOLIBIORIES FOUND AND THE DATE THEY WERE CONCRECTED SHALL BE MARTANED ON THE SITE AND SE MIND ANALASE TO PROAT THE TIME OF INSPECTION.

16. ALLO DEVANUE DE MATHAMED ON THE SITE AND BE IMPOEMBLE TO FIND AT THE OFF INSPECTION.

18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE FOLLOWING MANNER, USE ALL SEDIMENT REMOVED.

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 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.

22. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE INCHES IN THICKNESS.

22. PLI. MATERIAS SHALL BE FREE OF FROZEN PARTICLES. BRUSH, ROOTS, SOJ. OR OTHER FOREIGN OR OBJECTIONABLE MATERIAS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FLLS.

24. FROZEN MATERIALS OR SOFT, MUCKY, OR HOULY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

25. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

28. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

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CAPABLE OF RUSSISTING PALLORE LOCE TO SCHIPPING, SCHIPMIC OF THE MOVEMENTS.

30. EAS BIRPS SHALL REMAIN FUNCTIONAL AS SUCH UNTEL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTEL THEY ARE REPLACED BY ANOTHER BIRP APPROVED BY PWO AND PA CEP.

31. ATTER FIVAL 9TE STABLEATION HIS BEES ACHEVED, TEMPORARY EAR BAPE MIST BE REMOKED ON CONFIRETED TO PREMAMENT FOR CONSTITUCTION STORMATTER MANUGEMENT PRACTICES, AREA DISTURBED DERING RESOLVED, OR CONVERSION OF THE EAR BAPE SHALL BE STABLED IMMEDIATE; IN ORDER TO ENJURE RAPPORTURE TATION OF DISTURBED REALS, BLUCH REMOVALCON/PRISIONAL NET DISE DONE ON FUNDING THE CONTINUATION SEASON.

32. SEDMENT BASING AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASINTRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS, (WHEN APPLICABLE)

33. DURING CONSTRUCTION, THE SELECTED CONTRACTOR IS EXPECTED TO FOLLOW THE POSMP APPROVED BY PWD. NO CHANGE OR DEVIATION FROM THE APPROVED POSMP IS PERMITTED WITHOUT PRIOR APPROVAL FROM PWD.

ALL WORK ASSOCIATION WITH MOY WATTER CONSTANCE AND SERVINE INVESTMENT SHELL SEE DOME IN ACCORDING WITH THE CITY OF PERLACE SHEAP METER SHEPACHEMENT WATER SHEW IS PREADED FOR THE AND CORRECTION OF THE CONTROL ON THE CONTROL OF THE C

36. ALL BULLING MATERIALS AND WASTES SHALL BE HEAVYED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE PACEPTS SOLD WASTE WARAGEMENT REGILATIONS AT 25P A CODE 2011 FT BEG., 271.1, MO 287.1 ET SEC, NO BULLIDIN MATERIALS OR WASTES OR UNUSED BULDING MATERIALS SHALL BE BURNED, BURNED, DURPED, OR RE-DISPORAGED AT THE SITE.

37. A DUIT CONTRIC REBRIT WILL BE REQUIRED WHICH COMPLITIES VIBROLISHING A BUILDING OR STRUCTURE THAT IS MORE. THAN THREE IS OFFICES, REARIEST HAN FORTY (AG PET TALL, OR RECORD-BASES MORE THAT THE TH-OHIGHNE) FOLIONS DELIAR FEET. COMPLITELY OF PATHLLY PERIOLISHING ANY BUILDING OR STRUCTURE BY MAY DISHOV, OR EMAGAINS IN EARTHWORKS, EMPRICA AS CEPTANG, CHURLINNS, OR EARTH DESTRUCTURE OF ANY LASH ID DECISES OF SO GROWER TELT.

 IF ALL OUT AND FILL MATERIALS WILL BE USED ON THE SITE. A CLEAN FILL DETERMINATION IS NOT REQUIRED BY THE CONTRACTION ULBEST HERE IS A BELIEF THATA SAFE IO, OR RELASE OF A REQUIATED SUBSTANCE COCURRED ON SITE.
 2. BHOALD THE SITE REQUIRE FILL IMPORTED FROM AN OFF SITE LOCATION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PERFORMING DISTRICTMENTAL FULL DISLOPCIA, WIN THE DETERMINATION OF CLEAN FILL.

3. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH PAIDEP'S POLICY "MANAGEMENT OF FILL", DOCUMENT NUMBER 298-2185,773.

EMPRISONETY, DUE DUESCHE E DUESCHE AN EMPERISONETE TUDHNOUSE, NULLIONE, BUT NOT LIMITED TO, VISUAL, USE STORY, SANCON MANY, DIVIDENCENT, OLESTICHNANGES, THRONGACTION GENERAL ANY, ITCA, TESTINE, REPORTIONALITA, SESSIONETS OR AUDITS, ANALYTICA, ESCENTIONANGES, THRONGACTION GENERAL ANY, ITCA, TESTINE, SHOW, INSPECTION AND AUDITS, ANALYTICA, TESTINO IS NOT A REQUIRED PART OF DIE DUESCHE URLES WILLA, INSPECTION AND AUDITS, ANALYTICA, AND AUDITS, ANALYTICA, AND AUDITS, AND AUDITS, AND AUDITS, ANALYTICA, AND AUDITS, ANALYTICA, AUGITS, ANALYTICA, ANALY

6. CLEAN FILL IS DEFINED AS LINCONTAMINATED, NON-WAITER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TORM INCLUDES BOIL, ROCK, STORD, DIEDERD MATERIAL, USED ASPINALY, AND RECK, BLOCK OR CONCENTE FROM CONTRICTION OF THE COMMON PROPERTY OF RECONSTRUCTION AS BOUTEN THE BOILD ROSE NOT NOLUBE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH INJUSTED STHERWISE AUTHORIZED (THE TERM "USED ASPHALT" DOES NOT INCLUDE MALED ASPHALT OR SHIPMALT THAT WAS BOT PROCESSED FOR REJUST.)

FILM METERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SISTENCE STILL COLLIFIES AS CLEAN FILL PROVIDED THE TENNO REVISED BY THE THE LIMITED ACCORDANCE OF THE TOTAL TO ACCORDANCE ASSESSMENT AND ASSESSMENT AS

FILL MILE FORCH FIND COSES NOT JOILLINE TO SCILL OF THE THE THE PROPERTY OF THE SENSE FOR THE SENSE

MONAL CONSTRAINTS WITHIN WISSAHICKON VALLEY PARK

1. THE NOTES IN THE ABOVE SECTION TITLED "CUT AND FILL MINTERNAL" ARE THE MINIMAL REQUIREMENTS FOR COMPLICATION WITH PACKETS WANDERFOR FOR LIFE CONFIDENCE HIS REQUIRED FOR THE MINIMA REQUIRED FOR COMPLICATION OF THE MINIMA REQUIRED FOR COMPLICATION OF THE MINIMA REQUIRED FOR THE MINIMA REQUIRED FOR MINIMA REQUIRED MINIMA REQUIRED FOR MINIMA REQUIRED MIN

3. WHILE DEFINED AS CLEAN FILL IN NOTE & BADVIS (CUT AND FILL MITERIALS), FILL MATERIALS AFFECTED BY A SYLL OR, RELEASE OF A REQUIATED SUBSTANCE ARE UNACCEPTURE. FOR USE WITHIN WISSAHOXON VALLEY PARK, AND SHALL NOT BE URBD FOR FILL MATERIAL, WITHIN WISSAHOXON VALLEY PARK.

1. ALL EROSION CONTROL BMPS SHALL BE INSPECTED AND MAINTAINED AT LEAST WEEKLY, BEFORE ANY ANTICIPATED PREOFITATION, AND AFTER ALL PREOFITATION EVENTS.

3. THE CONTRACTOR SHALL BE RESPONDED E. DOE COMMISSION THE SEGUL AS INSECTIONS OF THE BMPS AND EXP.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING THE REGULAR INSPECTIONS OF THE BMPS AND FOR PERFORMING ANY REQUIRED MAINTENANCE.

 THE FOLLOWING MAINTENANCE INSTRUCTIONS, CLEANOUT LEVELS, AND REPAIR TIME FRAMES SHALL BE STRICTLY ADHERED TO.

INP. STANDARD BL. TEINER (IN 1984)
MARTIDHANCE, BEREF WEBELY AND AFTER BACH RUNOFF EVENT. INITIATE MEDDE REPAIRS IMMEDIATELY AFTER INSPECTION.
ANY SECTION INDEPENDED OR OVERTOPPED SHALL BE REPLACED WITH A ROOK RUTER OUTLET.
ANY SECTION INDEPENDED OR OVERTOPPED SHALL BE REPLACED WITH A ROOK RUTER OUTLET.
REPAIR TRUTH FAMEL. ACCUMANTED SEDIMENT SHALL BE REMOVED WITHIN 2M HOURS. ROOK FLITER OUTLET REPLACEMENTS
SHALL BE ACCOUNTEDED IMMEDIATELY.

SPAN, SEL CONCOPT PLATER FOOK. NOT BE FERNATTED TO CHOOSE RETER BOOKS. RESPECT WEIGHT AND AFTER EACH RUNOFF CHOSE TRETTED RECORDS ANGELINELY AFTER RESPECTION.

CHOSE TRETTED RECORD REPORTED RECORDS ANGELINELY AFTER RESPECTION.

FINANCIAL RECORD RECORDS ANGELINELY AFTER RESPECTION.

FINANCIAL RECORD RECORDS ANGELINE ANGELINE RESPECTIVE TO MANUFACTURERS RECORDS ANGELINE ANGELINE RECORDS ANGELINE

SMP: WOOD CHIP FILTER SEMM
MAKTEMANCE: ASSIVED WEEKEN AND AFTER EACH RUNOFF EVENT; INITIATE NEEDED REPAIRS IMMEDIATELY AFTER INSPECTION.
CLENKOT! LEVEL: 1/2 THE HIGHT OF THE SETAL
EXPART TIME TRANSIC ACCUMALATED SEMMENT SHALL BE REMOVED WITHIN 24 HOURS.

SMP. ROCK CONSTRUCTION ENTRANCE/EXIT.

MANTENING: THOOLOGS SHALL BE CONSTRUCTLY MAINTAINED TO THE SPECIFED DIMENSIONS BY ACKING ROCK. A STOCKPILE

MANTENING: THOOLOGS SHE FOR THE SPRONGE. REMOVE, AND REPLACEMENT MAY BE REQUIRED IF ROCK IS TOO CLOSED.

REPLACEMENT THE FRAME: SEDIMENT TRACKED ONTO ROMOWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE

MARGINTE!

MEGINTE!

BMP: PLAMPED WATER FLITER BAG
MANTIDMENCE: INNOVER FLITER BAG
MANTIDMENCE: INNOVER THAT I SPANE BAGS SHALL BE KEDT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FALLED OR
AGE FLLLID. LEEP UNA FINANCE STOCKED ROATING AND THESE OF DEBRIS.
KEDVAR THAT FRAME: IP PROSE LISE AND DETECTED, CEASE PLAMPHG IMMEDIATELY AND DO NOT RESUME PLAMPHG UNTIL THE
PROBLEMS ARE OFFICERED.

BMP. ROOK IT.TER OUTLET
MANTENANCE RESPECT WEBSTY AND ATTER EACH RUNOFF EXISIT. INITIATE NEEDED REPAIRS MANEDATELY AFTER RESPECTION.
MANTENANCE RESPECT WEBSTY AND ATTER EACH REPAIRS.
MEMORY EXISTS TO THE RESPECT OF THE FLITS.
REPAIR THE FRAME. REPLICE FLITS STONE OR COMPLETELY RESULD THE ROOK FLITER BY THE BID OF THE WORK DAY, OR
SOCKER FRANK STORCEASTED.

BMP, ROCK FLITER
MAKET DAVING RESPECT WEBSLY, AND AFTER EACH PLINOFF EYEST. INITIATE NEEDED REPAIRS MAKEDIALLY AFTER INSPECTION.
CARROLL RESPECTIVE MAKEDIA OF THE RESPECTIVE REPLACED.
CARROLL RESPECTIVE RESPECTIVE FLITERS.
REPAIR THE FRAME REPLACE FLITER STONE OR COMPLETELY RESULD THE ROCK FLITER SY THE DID OF THE WORK DAY, OR SOORRE FEMILE FOR SOFTCAST.

BMP. FATER BAG INLET PROTECTION
MAINTENANCE INSPECTIVE AND AFTER EACH PLANOFF EVENT, INTIATE REPAIRS MANEDATELY AFTER INSPECTION
CLANGLY, LEVEL REMOVE SERMINISTY WHEN 12 FALL ON WHEN TOW CAPACITY HAS BEEN REDUCED TO A LEVEL WHERE THE
REPAIR TIME FRAME: REMOVE ACCUMULATED SERMENT OR REPLACE IMMEDIATELY
REPAIR TIME FRAME: REMOVE ACCUMULATED SERMENT OR REPLACE IMMEDIATELY

MATTENESC. INSPECT ONE PER HUR DURING PRASS PLASHS OFERATIONS. AD ADDITIONAL LYCES OF SAMEBAGS AS BEDIEBED TO MARTIN POLICIAL DESIR SE ELEMY HE SETUDION FIRST TOTAL MOST OF SAMEBAGS. ADDITIONAL LYCES OF SAMEBAGS. AND BEDIEBED TO MARTIN POLICIAL DESIR SE ELEMY HE SETUDION FIRST TOTAL FRANCIS OF SAMEBAGS. ADDITIONAL DESIR PARTIN PAGE DESIR PARTIN PAGE DESIR PAGE DESIR

BILE, FARE PIPAGES.

MAINTENANCE ARRES BYSTEM SHALL BE INSPECTED ONCE PER HOUR CURING OPERATIONS. DISCHARGE LINE SHALL BE INSPECTED FOR LEASE, BYANGS SOCKEEN AND O'LLET ENERGY DESIRATIONS SHALL BE INSPECTED FOR CLOSS AND TO VERIFY COMMETT ASSESSING THE CONTROL OF THE COMMETT ASSESSING THE COMMETT.

4. ALL SEDIMENT REMOVED FROM EROSION CONTROL BMPS SHALL BE USED AS FILL MATERIAL WITHIN THE PROJECT LIMITS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WEEKLY INSPECTIONS OF THE SITE BMPS AND INSPECTIONS.

ENERAL PROJECT STARTUP SEQUEN

 AT LEAST SEVEN (7) DAY'S PRIOR TO ANY EARTH DISTURBANCE, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE A PRECONSTRUCTION MEETING.

2. AT LEAST THREE (3) DAYS PRIOR TO (APPLICANT TO NAME EACH SMP) INSTALLATION, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-5387) MUST BE CALLED TO SCHEDULE AN INSPECTION (FOR EACH SMP).

 ALL STONE THAT MAKES UP THE (APPLICANT TO NAME EACH INFILTRATION SMP) MUST REMAIN FREE OF SEDIMENT. IF SEDIMENT ENTERS THE STONE, THE CONTRACTOR MAY BE REQUIRED TO REMOVE THE SEDIMENT AND REPLACE IT WITH CLEAN WASHED STONE.

4. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER ANDORS OPERATOR BHALL CONTRACT ROPECTIONS CONDITIONS OF PWD (OFFICE: 216-685-987) FOR A FINAL BRIFECTION PHOOD TO REBOOKAL/CONTRIBUTION OF THE EAS BMF.

CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABLEZATION.

8. THE RPDES NOTICE OF TERMINATION (N.O.T.) MUST BE SUBMITTED TO PA DEP UPON COMPLETION OF CONSTRUCTION (WHEN ARRE) LYABLE (1).

 WATER PUMPED FROM WORK AREAS SHOULD BE TREATED FOR SEDIMENT REMOVAL PRIOR TO DISCHARGING TO A "SURF WATER" (WHEN APPLICABLE).

ONSTRUCTION SEQUENCE

1. LOCATE INLETS REQUIRING PROTECTION AND INSTALL FILTER BAG INLET PROTECTION. INLET PROTECTION MUST BE INSTALLED PRIOR TO ANY EARTH DISTURBANCE ACTIVITIES.

- $2. \ \textbf{INSTALL TEMPORARY PROTECTIVE FENCE AS SHOWN ON THE PLAN TO MINIMIZE THE FOOTPRINT OF DISTURBANCE.}\\$
- 3. EXCAVATE AND INSTALL ROCK CONSTRUCTION ENTRANCE(S).

IL USE ACCESS ROUTES AS SHOWN ON THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN, STABILZE ACCESS ROUTE(S) AS NECESBARY WITH COARSE AGGREGATE, COARSE WOOD CHIPS, OR OTHER DURABLE MATERIALS TO BE REMOVED FOLLOWING THE COMPLETION OF CONSTRUCTION, MINIMIZE THE DESTRUCTION OF EXISTING VEGETATION WHENEVER POSSIBLE.

 IDENTIFY STOCKPLE LOCATIONS AND INSTALL SILT FENCE, COMPOST FILTER SOCK, OR WOOD CHP FILTER BERM. REFER TO PLANS FOR TYPICAL LOCATIONS. PLACE EXCAVATED AND STORED MATERIALS IN STOCKPILE LOCATIONS. IMMEDIATELY STABILIZE STOCKPLE(S).

- 6. INSTALL COMPOST SOCK WASHOUT.
- 7. DEMOLISH EXISTING STRUCTURES AND TREES ACCORDING TO THE DEMOLITION PLAN.

B. NETALL TEMPORARY COFFERDAM AND PLANS IPPAGES OR OTHER APPROVED WATER MANAGEMENT BMP, RETER TO PLANS FOR TYPICAL SETUP LOCATION. THE CONTRICTOR IS REPROSENDED FOR SIZE OF THE RELECTED WATER MANAGEMENT BMP, IN ACCURDANCE WITH THE EPOSION AND SEDMENT POLLUTION CONTROL, PROGRAM MANUAL, INSTALL PLIMPED WATER FILTER BMD DEWNITER WORK PLANS.

 COMMENCE CONSTRUCTION OF STREAM CHANNEL STRUCTURES AND CHANNEL GRADING IN ACCORDANCE WITH DESIGN DRAWINGS AND SPECIFICATIONS WORKING FROM THE UPSTREAM END OF PROJECT AREA TO THE DOWNSTREAM END.

10. INSTALL 16' HDPE PIPE, AND 4' STANDARD PWD SHALLOW INLET AS SHOWN ON THE PLANS. STORMWATER CONVEYANCE PIPES AND INLET MAY BE INSTALLED CONCURRENTLY WITH STREAM CHANNEL CONSTRUCTION WORK.

11. INSPECT INSTALLED STRUCTURES FOR ANY DEFICIENCIES AND CORRECT IMMEDIATELY

CONTROL BLANKET AND PLANTINGS IN ACCORDANCE WITH THE DESIGN DRAWINGS, NOTES, AND SPECIFICATIONS.

 REMOVE WATER MANAGEMENT BMPS.
 AT THE END OF EACH WORKDAY APPLY TEMPORARY OR PERMANENT SEEDING (AS APPROPRIATE) AND MULCH TO AREAS DISTURBED DURNS THE WORKDAY.

PROJECT CLOSEOUT SEQUENCE

 UPON PROJECT COMPLETION, HAUL ANY LEFTOVER MATERIAL OFF THE SITE TO AN APPROVED LOCATION. SEED AND MULCH STOCKPILE AREAS AND ANY REMAINING DISTURBED AREAS. 2. REMOVE TEMPORARY ACCESS ROUTES AND PARKING/STAGING AREAS, BACKFILL AND STABILIZE ALL DISTURBED AREAS AS REQUIRED.

 REMOVE STABILIZED ROCK CONSTRUCTION ENTRANCES, BACKFILL AND STABILIZE ALL DISTURBED AREAS AS REQUIRED.
 REVIGENTATE ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS FOR PERSAMENT EROSION AND SEDIMENT CONTROL MESAPERS.

5. UPON REACHING SITE STABILIZATION, REMOVE ANY REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL BMPS.

EXISTING LEGEND



EXISTING TRE

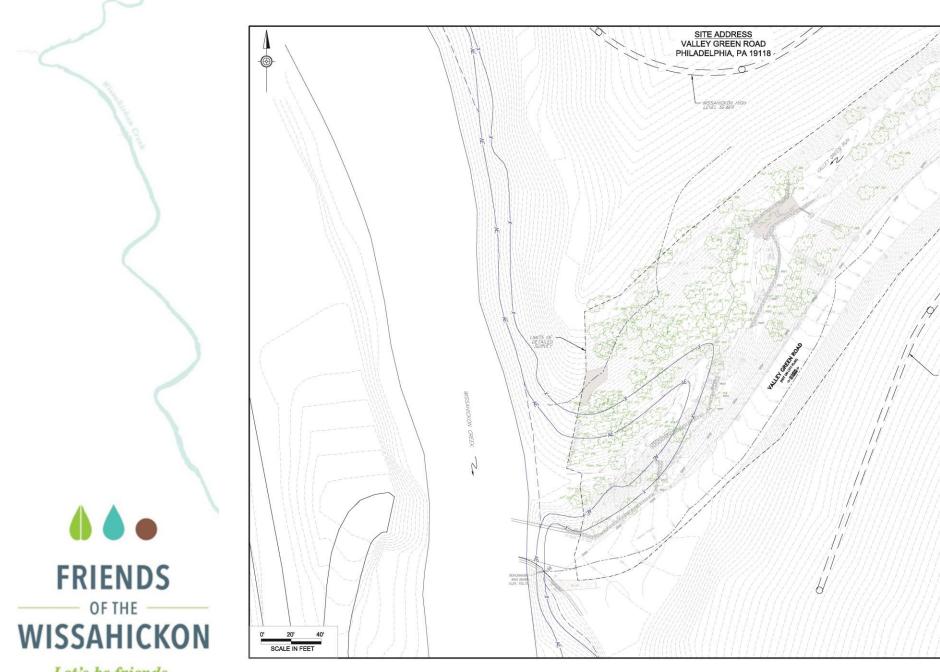
FRIENDS OF THE WISSAHICKON
VALLEY GREEN RUN RESTORATIO
PHILADELPHIA, FIRE
MATERIAL PROPERTY CONTROL OF THE PHILADELPHIA, F

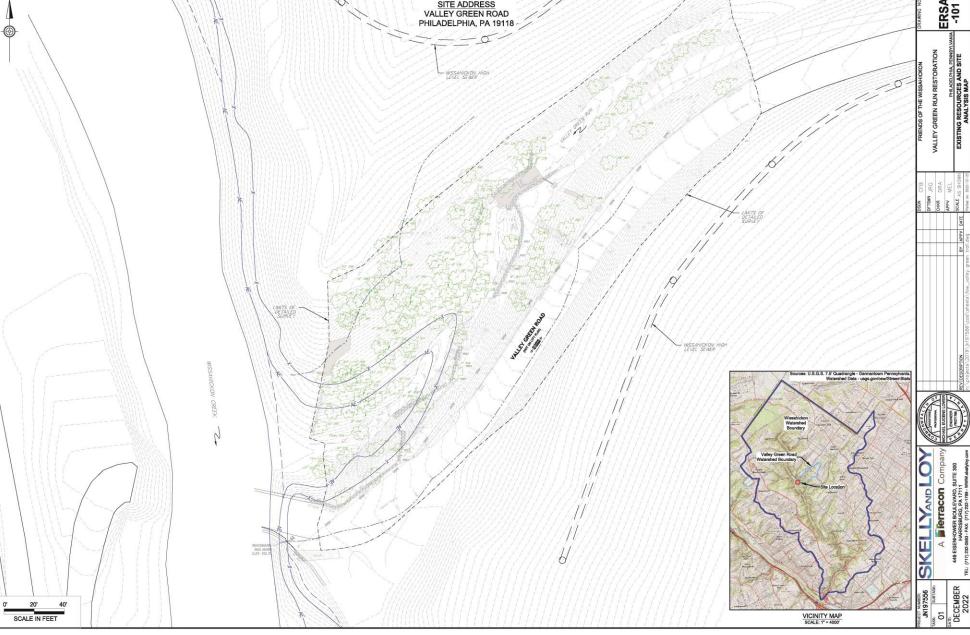
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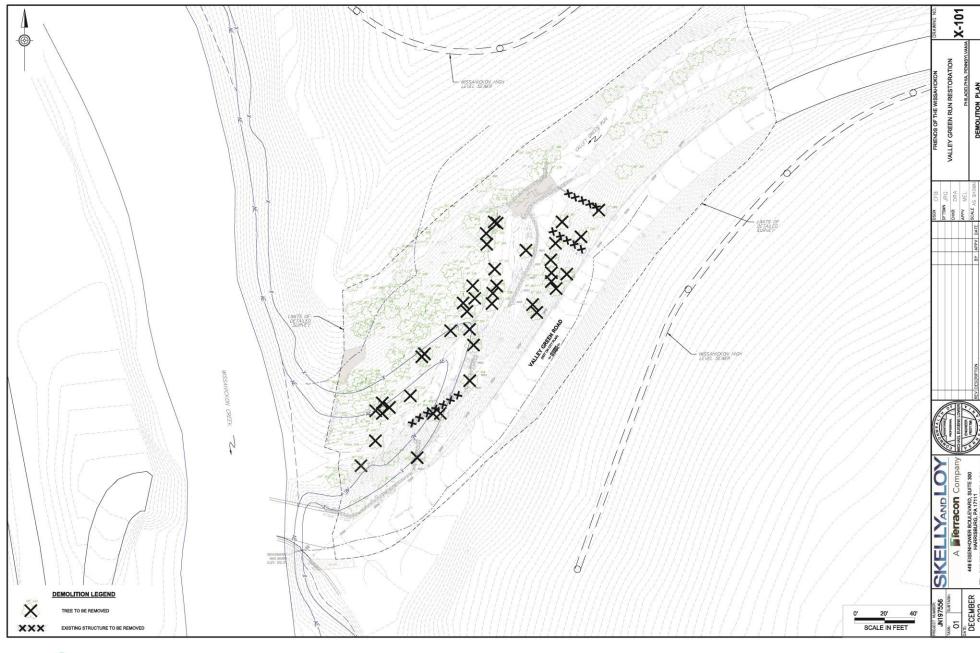
A FIETTACON COMPA
449 EISPHOWER BOLLEVARD, SUITE 300
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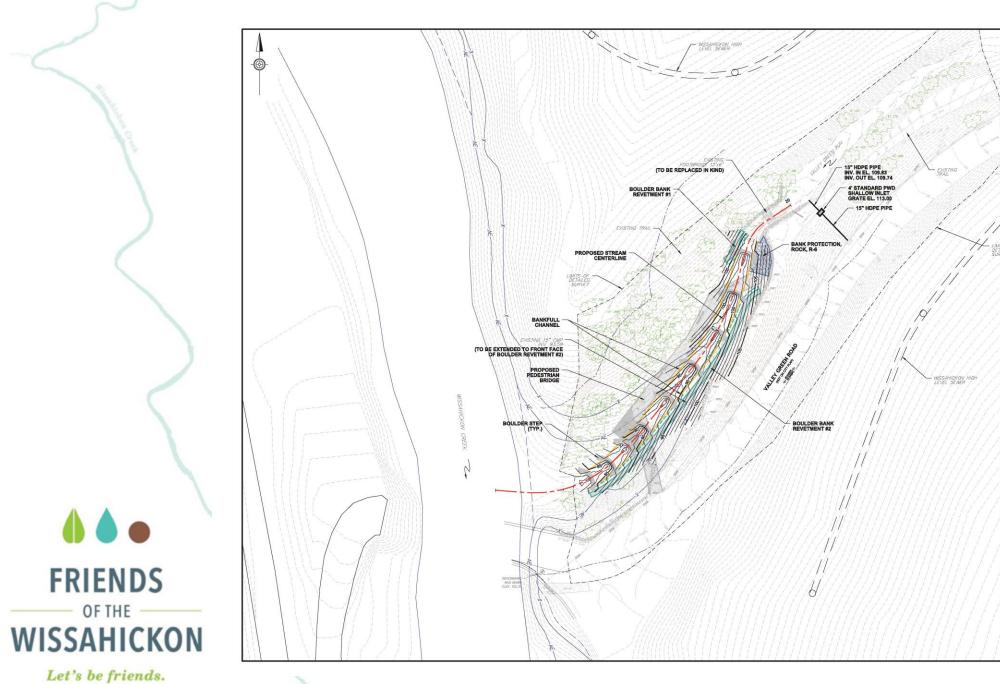
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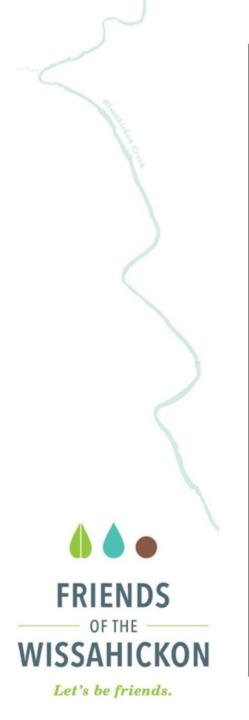


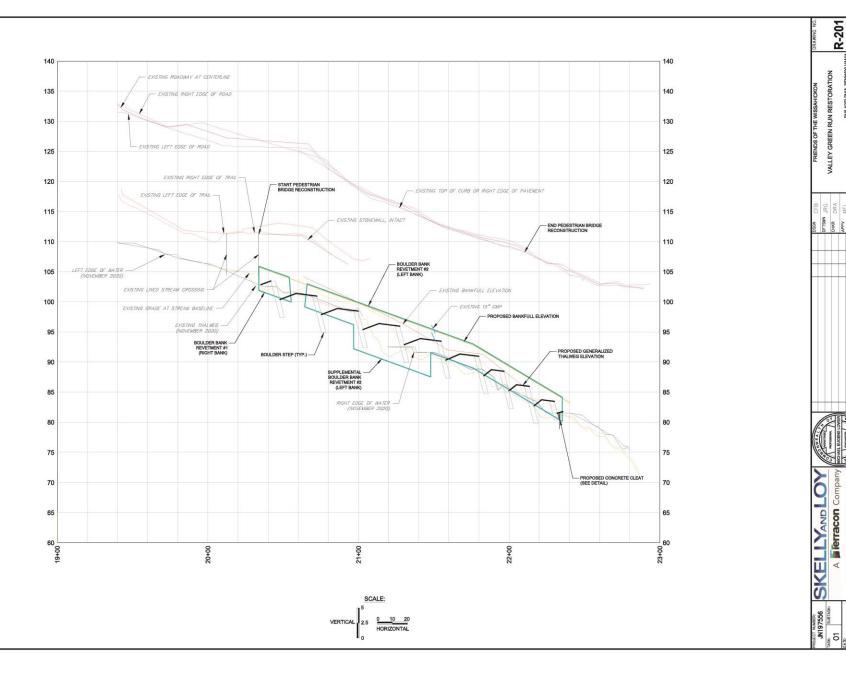


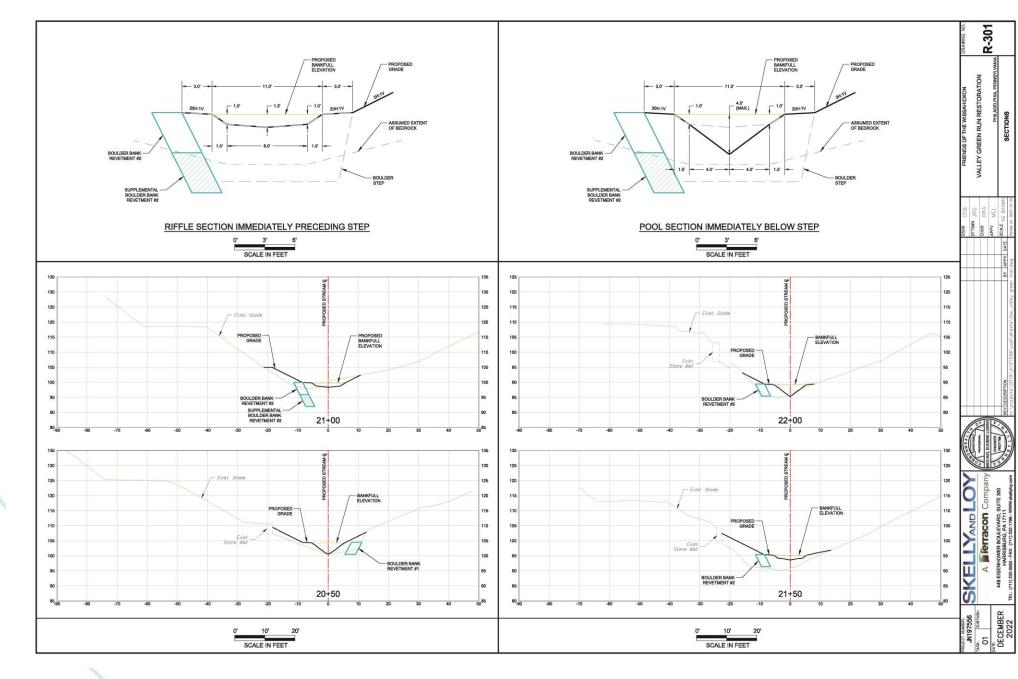




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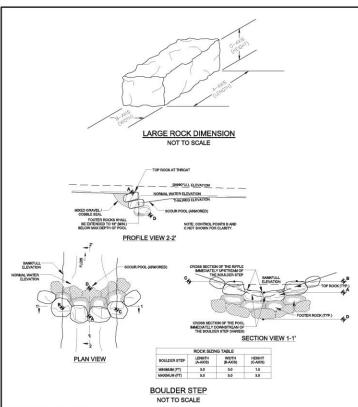








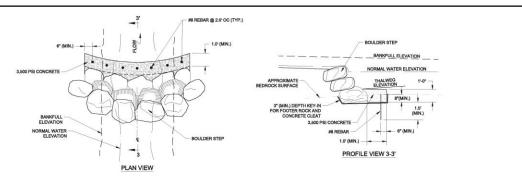




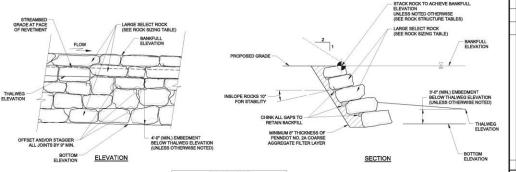
- ALL BOLLDER STEP STRUCTURES SHALL BE CONSTRUCTED UNDER THE DIRECT SUPERVISION OF, AND SUBJECT TO THE APPROVAL OF, A SUPERVISING ENGINEER (OR STREAM RESTORATION SPECIALIST, WITH DEPOSED EN FLUVAL GEOMORPHOLOGY MO NATURE, CHANNER, RECONSTRUCTION.
- THE BOULDER STEP STRUCTURES SHALL BE INSTALLED IN GENERAL ACCORDANCE WITH THE PLAN DITALS AND IN THE LOCATIONS SHOWN IN THE PLANS, OR AS OTHERWISE APPROVED BY THE ENGINEER ALL IN-STREAM STRUCTURES MAY BE FEELD AULISTED AS INSECTION THE OESTING INPROVEMENTS TO OHNNIEL COMMEY/AND AND STRUCTURES IN

- BEGINNING WITH THE POOTER ROCKS, ROCKS IN THE STEP STRUCTURE SHALL BE DISTINCTLY INSLOPED (CANTED) IN AN UPSTREAM DIRECTION. THIS ANGLE SHALL GENERALLY VARY BETWEEN 6 TO 15 DEGREES AS MEASURED ALLOND THE UPPER. PLAT FACE OF THE ROCK.

- NO SIGNIFICANT VOIDS SHALL EXST BETWEEN ACJOINNG ROCKS IN THE BOLLDER STEP STRUCTURE. IN ORDER TO PREVENT EXCESSIVE PPING BETWEEN ROCKS AND ENCOURAGE SEALING OF THE STRUCTURE, ALL SIGNIFICANT AND AND VOIDS SETWEEN ACJOINNO ROCKS SHALL BE CHINCED (FROM THE LIPSTREAM SIDE ONLY) WITH SMALLER ROCK FRAGMENTS. ALL VOIDS GREATER THAN OR COLUMN TO'S NON-SIS SEES SHALL BE ROWNINGLY CHINCED.
- BANKS ADJACENT TO THE BOULDER STEP STRUCTURE SHALL BE REGRADED OR RE-SHAPED AFTER INSTALLATION OF THE STEP STRUCTURE, AS DIRECTED BY THE ENGINEER, TO PROVIDE THE PROPER DIRECTOR CHANNEL DIMENSIONS.



CONCRETE CLEAT NOT TO SCALE



	ROCK SIZIN	IG TABLE	
BOULDER BANK REVETMENT	(A-AXIS)	(B-AXIS)	HEIGHT (C-AXIS)
MINIMUM (FT)	3.0	3.0	1.5
MAXIMUM (FT)	5.0	5.0	3.0

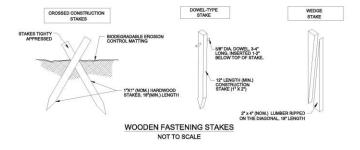
BOULDER BANK REVETMENT NOT TO SCALE

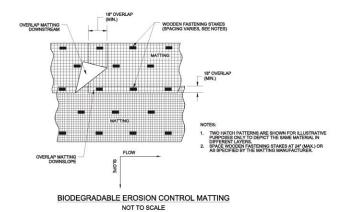
- 3. SLOPE THE BOTTOM OF ALL ROCK EXCAVATION AWAY FROM THE CHANNEL TO ENSURE THAT THE FIRST AND SUBSEQUENT COURSES OF ROCK ARE INSLOPED 10 DEGREES



501

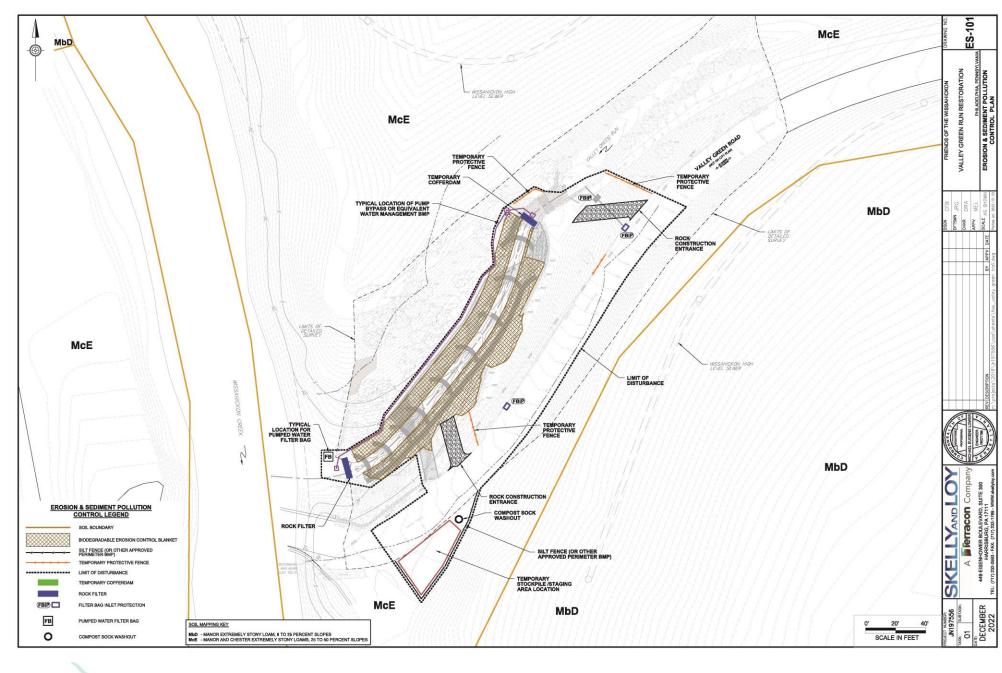


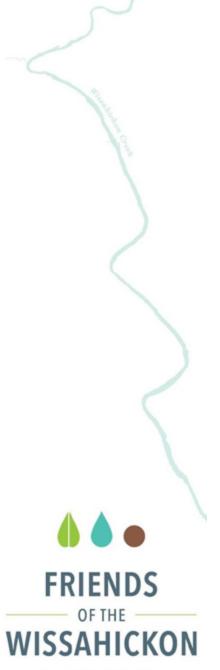


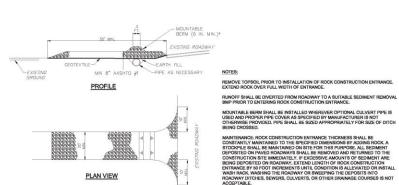


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* MOUNTABLE BERN USED TO PROVIDE PROPER COVER FOR PIPE

INSTALL THE FENCE USING A METAL "T" OR "U" POST DRIVEN INTO THE GROUND TO A DEPTH OF 12 TO 18 INCHES. POSTS SHOULD BE SPACED EVERY 9 FET. NOTE: NOTCHED POSTS ARE IDEAL TO PREVENT THE FENCE FROM SUPPHING.

SECURE THE FENCE TO THE POST USING THREE WIRE TIES, WRAPPED AROUND THE FENCE STRAND AND THE POST. TENSION WIRE OR ROPE MAY BE USED AS A TOP STRINGER AND WOVEN THROUGH THE TOP ROW OF STRANDS TO PREVENT POTENTIAL BAGGING.

TWO ROLLS OF SAFETY FENCE MAY BE OVERLAPPED AT THE INTERSECTION OF A POST AND SECURED WITH WIRE TIES.

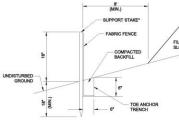
TEMPORARY PROTECTIVE FENCE

ES-3-1 ROCK CONSTRUCTION ENTRANCE









* STAKES SPACED @ 8" MAXIMUM. USE 2" X 2" ($\pm^3 i$ ") WOOD OR EQUIVALENT STEEL (U OR T) STAKES.

ES-4-7 STANDARD SILT FENCE (18" HIGH)

1. FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3.

FABRIC PROPERTIES FOR SILT FENCE					
FABRIC PROPERTY	MINIMUM ACCEPTABLE VALUE	TEST METHOD			
GRAB TENSILE STRENGTH (LB)	120	ASTM D1682			
ELONGATION AT FAILURE (%)	20% MAX.	ASTM D1682			
MULLEN BURST STRENGTH (PSI)	200	ASTM D 3786			
TRAPEZOIDAL TEAR STRENGTH (LB)	50				
PUNCTURE STRENGTH (LB)	40	ASTM D 751 (MODIFIED)			
SLURRY FLOW RATE (GAL/MIN/SF)	0.3	ASTM 5141			
EQUIVALENT OPENING SIZE	30	US STD. SIEVE CW-02215			
ULTRAVIOLET RADIATION STABILITY (%)	80	ASTM G-26			

FABRIC WIDTH SHALL BE 30" MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.

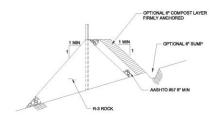
SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE, BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT (SEE FIGURE 4.1).

4. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVEGROUND HEIGHT OF THE FENCE.

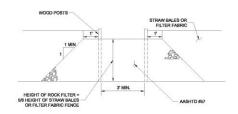
5. ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL ESX-45).

6. FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

ES-4-7 STANDARD SILT FENCE (18" HIGH)



OUTLET CROSS-SECTION



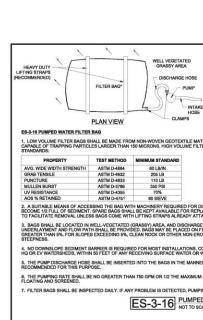
UP-SLOPE FACE

1. A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HO AND EY WAITERSHEDS.

2. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.



PRIOR TO PLACEMENT OF THE BERM, OBSTRUCTIONS SUCH AS TREE LINBS, LARGE ROCKS, ETC. SHALL BE REMOVED.





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

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY COME 12 FULL OF SEDMENT. SPACE BAGS SHALB ER EXPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA. AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS, WHERE THIS IS NOT POSSIBLE, A GEOTEXTLE UNDERLAYMENT AND ILOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FLITER STOKE TO INCREASE DISCHARGE CAPACITY, BAGS SHALL NOT BE FLACED 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 STEEPINESS.

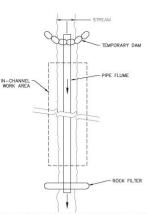
4. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS, COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

5. 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.

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

LITER BAGS SHALL BE INSPECTED DAILY, IF ANY PROBLEM IS DETECTED, PLAMPHOS SHALL CEASE IMARDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED

| PUMPED WATER FILTER BAG
| Not to scale



RIGID OR FLEXIBLE PIPE FLUME THROUGH A WORK AREA CONSTRUCTION SEQUENCE

I. INSTALL TEMPORARY PIPE THROUGH THE WORK AREA. PLACE OUTLET OF TEMPORARY PIPE TO MINIMIZE EROSION AT DISCHARGE SITE OR PROVIDE TEMPORARY ENERGY DISSIPATION MEASURES.

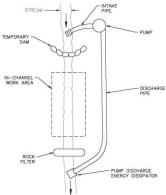
SECURELY AT INLET. 3. CONSTRUCT A ROCK FILTER DOWNSTREAM OF WORK AREA AND UPSTREAM OF TEMPORARY PIPE DISCHARGE.

TEMPORARY PIPE DISCHARGE.

4. PERFORM CONSTRUCTION ACTIVITIES WITHIN THE WORK AREA.

PERFORM CONSTRUCTION ACTIVITIES WITHIN THE WORK AREA.
 UPON COMPLETION OF CONSTRUCTION, REMOVE THE TEMPORARY COFFERDAM, TEMPORARY PIPE, AND ROCK FILTER.

OPTION 1
RIGID OR FLEXIBLE PIPE FLUME
THROUGH A WORK AREA



TEMPORARY COFFERDAM AND PUMP BYPASS CONSTRUCTION SEQUENCE

1. SET UP BYPASS PUMP AND TEMPORARY PIPING. PLACE OUTLET OF
TEMPORARY PIPE TO MINIMIZE EROSION AT DISCHARGE SITE OR PROVIDE

2. CONSTRUCT OUTLET PROTECTION IF NEEDED.

 CONSTRUCT TEMPORARY COFFERDAM UPSTREAM OF WORK AREA TO IMPOUND WATER FOR BYPASS PUMP INTAKE. USE FLOATING INTAKE FOR PUMPS WHERE POSSIBLE.

4. CONSTRUCT A ROCK FILTER DOWNSTREAM OF WORK AREA AND UPSTREAM OF TEMPORARY PIPE DISCHARGE.

5. CHECK OPERATION OF PUMP AND PIPING SYSTEM.

6. PERFORM CONSTRUCTION WITHIN THE WORK AREA.

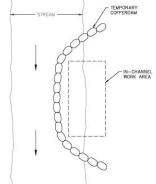
 UPON COMPLETION OF CONSTRUCTION, REMOVE THE TEMPORARY COFFERDAM, BYPASS PUMP, TEMPORARY PIPE AND ROCK FILTER.

> TEMPORARY COFFERDAM AND PUMP BYPASS AROUND IN-CHANNEL WORK AREAS

WATER MANAGEMENT BMP-OPTIONS



ES-3-15 SANDBAG DIVERSION DAM OR COFFERDAM NOT TO SCALE



IN-STREAM COFFERDAM CONSTRUCTION SEQUENCE

1. CONSTRUCT COFFEEDAM FROM THE EXISTING CHANNEL EMBANGMENT UPSTREAM OF THE PROJECT CONSTRUCTION AREA TURNING ROUGH IT PARALLEL UPSTREAM OF THE PROJECT CONSTRUCTION AREA TURNING ROUGH IT PARALLEL TORSIC REPORT OF THE PROJECT OF THE

2. DEWATER EXCAVATION IN ACCORDANCE WITH TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES NOTE 4.

S. PERFORM REQUIRED CONSTRUCTION ACTIVITIES IN THE AREA ENCLOSED BY THE COFFERDAM.

4. UPON COMPLETION OF CONSTRUCTION, REMOVE THE TEMPORARY COFFERDAM.

OPTION 3 IN-STREAM COFFERDAM DIVERSION

STANDARD E&S WORKSHEET # 21 Temporary and Permanent Vegetative Stabilization Specification

LOCATION, ENT OF TREADSLIPMS, PREADSLIPMS, PS.

PREPARABED BY: 07

DATE: 2002-12-19

*SPECIES: ANNUAL RYE

%	100	% PURE LIVE SEED:		
LB./ACRE	40	APPLICATION RATE:		
(X-X-X)	50-50-50	FERTILIZER TYPE:		
LB./ACRE	150	FERTILIZER APPL. RATE:		
T./ACRE	1	LIMING RATE:		
	STRAW	MULCH TYPE:		
TJACRE	3.0	MULCHING RATE:		
IN.		TOPSOIL PLACEMENT DEPTH:	(PERMANENT)	
	SEE LANDSCAPING SPECIFICATIONS	*SPECIES:		
%		% PURE LIVE SEED:		
LB./ACRE		APPLICATION RATE		
(X-X-X)		FERTILIZER TYPE:		
LB./ACRE		FERTILIZER APPL. RATE:		
TJACRE		LIMING RATE:		
		MULCH TYPE:		
T./ACRE		MULCHING RATE:		
		ANCHOR MATERIAL:		
		ANCHORING METHOD:		
LB./ACRE		E OF ANCHOR MATERIAL APPL.:	RATE	
		SEEDING SEASON DATES:		

specification will be used for this project:

(PERMANE)	NT - STEEP SLOPE) TOPSOIL PLACEMENT DEPTH:		
	*SPECIES:	Hard Feecus Mix (50%), Creeping R	ed Fescur (35%), Armusi Ryegrass I
	% PURE LIVE SEED:	97	
	APPLICATION RATE:	48	LB./AC
	FERTILIZER TYPE:	10-20-20	(X-)
	FERTILIZER APPL. RATE:	675	LB./AC
	LIMING RATE:	2	T./AC
	MULCH TYPE:	STRAW	7

ANCHOR MATERIAL: ENDIRIO CONTROL BLANKET
ANCHORINO METHOD:
STANDE SEE ENDIROL PLANS:

RATE OF ANCHOR MATERIAL APPL:

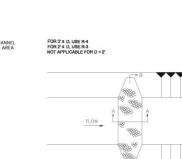
STANDE SEE ENDIROL PLANS:

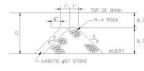
LB.
SEEDING SEASON DATES:
MARCH 15-JUNE AND AUGUST 1-OCTOBER 15

"If more than one species is used, includes application rate for each species."

Note: This worksheet should be added to the plan drawings.

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AASHTO #57 STONE SECTION A-A FOLCOWERS FULL CHARGE WITCH (MM)

SECTION B-B

PLAN VIEW

FILTER NO.	LOCATION	D (FT.)	RIPRAP SIZI
1	ALL ROCK FILTERS	3.0	R-4
	ALL ROOK PILILIO	0.0	104

1. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTER

2. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, INSTALLER SHALL REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

ES-4-14 ROCK FILTER

OESCAIPTION TO DECENTION (2018) AND 1875-56 (2007), shoets
PTION 2019\h1
0 10

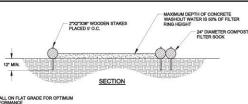
Let's be friends.

FRIENDS

OF THE

WISSAHICKON





TES:
INSTALL ON FLAT GRADE FOR OPTIMUM
PERFORMANCE
18* DIAMETER FILTER SOCK MAY BE STACKED
ONTO DOUBLE 24* DIAMETER SOCKS IN
PYRAMIDAL CONFIGURATION FOR ADDED
HEIGHT. 2"X2"X36" WOODEN STAKES PLACED 5" O.C. DIRECT CONCRETE WASHOUT WATER INTO FILTER RING 24° DIAMETER COMPOST FILTER SOCK, 4° MIN. OVERLAP ON UPSLOPE SIDE OF FILTER RING

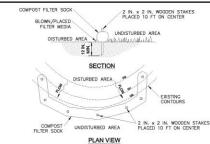
> PLAN ANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT

COMPOST SOCK WASHOUT NOT TO SCALE

Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo- degradable	Photo- degradable	Bio- 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-pl	y systems		
				HDPE biaxial n	
Inner C	ontainment Ne	tting	F	usion-welded iun	
2000000				" X 3/4" Max. apert	
Oute	er Filtration Me	sh	(Wove mechan	posite Polypropyle n layer and non-w nically fused via ne	oven fleece redle punch)
				3/16" Max. apertur	e size

	BLE 4.2 st Standards
Organic Matter Content	25% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.5
Moisture Content	30% - 60%
Particle Size	98% pass through 3/8" sieve
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum

ES-3-15 SOCK FABRIC AND COMPOST STANDARDS



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.

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 8 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

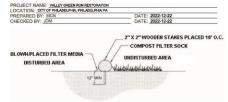
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT

COMPOST FILTER SOCKS

SOCK NO.	Dia. In.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
N/A	18"	TEMPORARY STOCKPILES	25% MAX	8° MIN
			12	

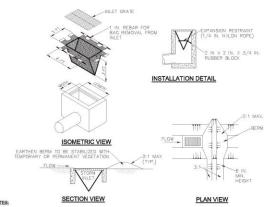
ES-4-1 COMPOST FILTER SOCK

STANDARD E&S WORKSHEET #1



SOCK NO.	Dia.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
N/A	18"	TEMPORARY STOCKPILES	25% MAX	8' MIN
			-	
			-	
			_	
			_	
			_	
			-	

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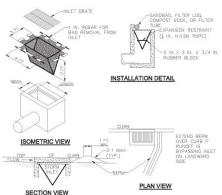
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP, BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

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

INLET FILTER DAGS SHALL BE INDRECTED ON A VERXLY BASIS AND AFTER FACH RUNGET FARENT BAGS SHALL BE EMPITED AND RIVESTO OR REPLACED.
WHEN HAUF FILL ON HYBEN FLOW CHARACTY HAS BEEN REVUICED SO AS TO COMES FLOODING OR STANSING OF THE NLET DAMAGED OR CLOSSED
BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MANTANED ON SITE FOR REPLACEMENT OF BAGS. ALL REDED REPLAIS SHALL BE INTINTED
MINERATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL LISS BAGS ASCORDING TO THE FLAN NOTES.

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

FILTER BAG INLET PROTECTION NOT TO SCALE



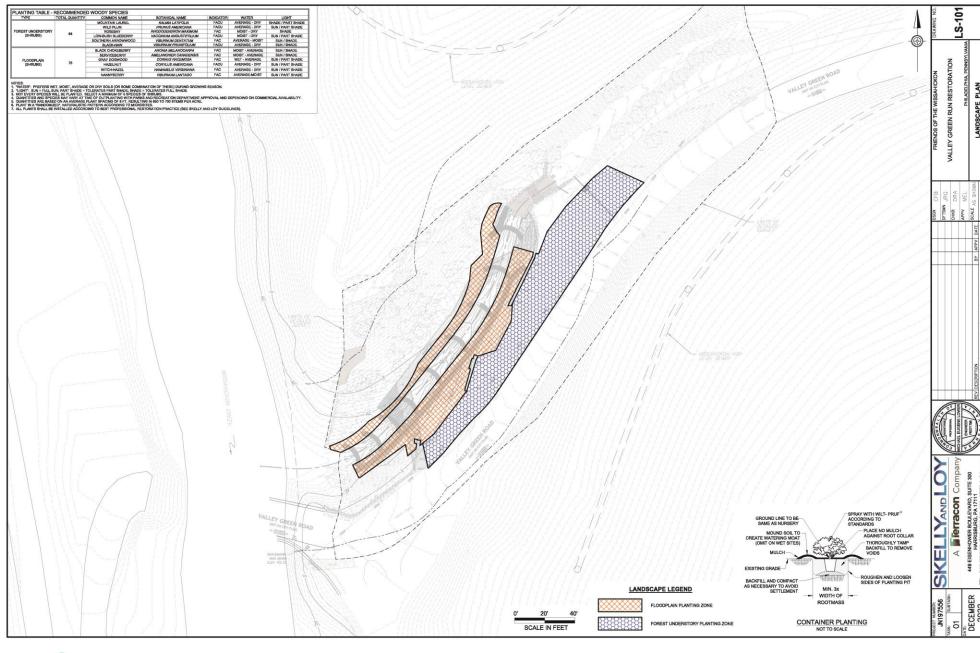
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

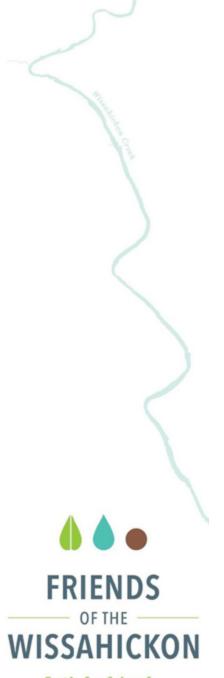
NEET PLITE BAGG SHALL BE REPRECISE ON A VEEKLY BASIS AND AFTER EACH KLINGET PARTY TAKES SHALL BE EMPTED AND RINGED OR REPLACED.
WHICH HALF PLAL OR WHEN FLOW MACHATY HAS BEEN BELOCUES OR AS TO CAUSE PLACED BY SYNSHING OF THE NEIT DAMAGED OR CAUGAGED BHALL BE REPLACED. A BUPPLY SHALL BE MANTANED ON SITE FOR REPLACEMENT OF BAGS, ALL REDED BEPARS SHALL BE MITTATED MANEDATELY AFTER THE REPRECIONLO ISSISTED OF CACCIMILATIONS DEBUTED TO WHICH THE MANED ATTER THE REPRECION DISTORES OF CACCIMILATIONS DEBUTED TO WHICH THE MANED AND THE STATES THE REPRECION DISTORES OF ACCIMILATION SENDER TO WHICH THE MACHATELY AFTER THE REPRECION DISTORES OF ACCIMILATION SENDER TO WHICH THE MACHATELY AFTER THE REPRECION. DISTORES OF ACCIMILATION SENDER TO WHICH THE MACHATELY AFTER THE REPRECION DISTORES OF ACCIMILATION SENDER.

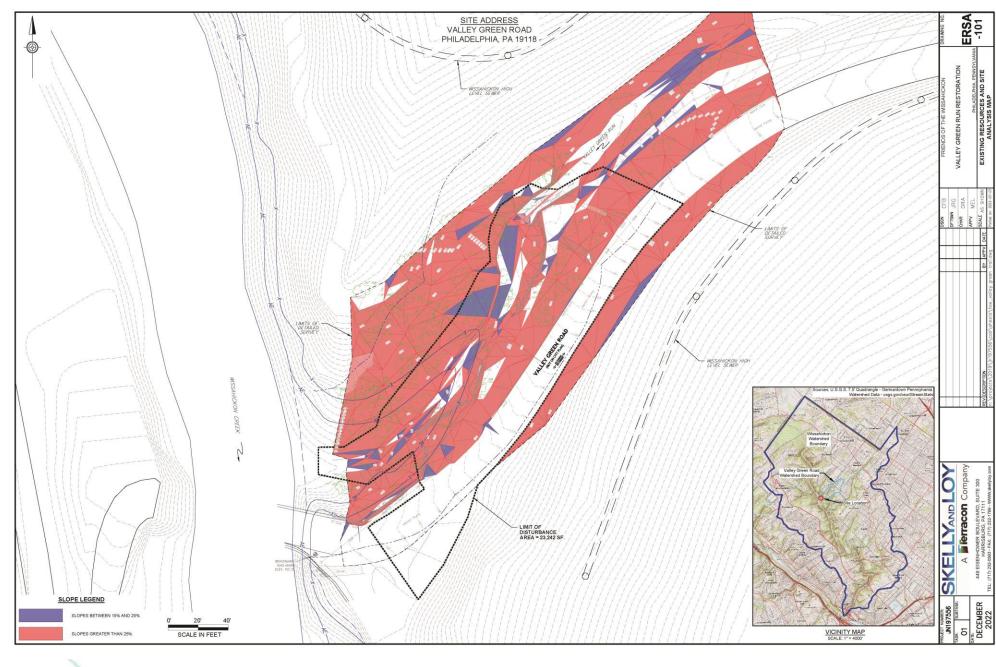
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

FILTER BAG INLET PROTECTION CURBED ROADWAY NOT TO SCALE



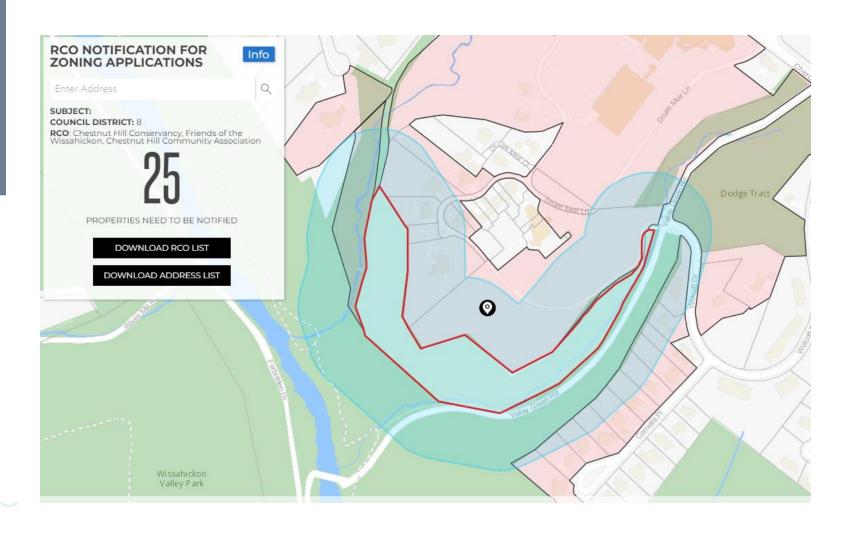






Community Outreach





Important Dates



- September 19 First DRC Meeting
- *September 22 Mail Neighbor Notice Letters
- *October 5th Potential Meetings with Chestnut Hill Conservancy and CHCA's Land Use, Planning and Zoning Committee
- October 17 Second DRC Meeting / OFFICIAL RCO Meeting
- October 26 CHCA Board Meeting
- November 14 at 9:30 a.m. ZBA Hearing



Thank you