

US Army Corps of Engineers. Philadelphia District

Wanamaker Building 100 Penn Square East Philadelphia, PA 19107-3390 ATTN: CENAP-OP-R

Public Notice

Public Notice No.

Date

CENAP-OP-R-2014-0022

MAR 06 **2015**

Application No.

File No.

In Reply Refer to:

REGULATORY BRANCH

This District has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

APPLICANT:

Pennsylvania Departments of Public Welfare and General Services

AGENT:

Alfred Benesch and Company

WATERWAY:

Hospital Creek

LOCATION:

Wernersville State Hospital, South Heidelberg Township, Berks County,

Pennsylvania

ACTIVITY: The applicant proposes to perform a total of 1,585 linear feet stream channel restoration along Hospital Creek within the Wernersville State Hospital property. The project can be broken into 4 subsections: A) 680 linear feet of stream restoration within the Mill Dam basin (including Mill Dam removal) immediately at and upstream of the dam, B) restoration of 495 linear feet of waterway immediately below the Mill Dam (including removal of the stilling basin area with ensuing, C) downstream restoration of 100 linear feet of stream below the Sportsman Road crossing, and D) the downstream restoration of 310 linear feet of stream just below the Main Street creek crossing including removal of a small concrete check dam. The proposed project would result in the disturbances to 2.51 acre of regulated waters including 0.37 acre of wetlands associated with the conversion of wetland to stream channel and 2.08 acres of open waters below the ordinary high water mark associated with stream channel re-construction and enhancement. It should be noted that the mill dam, a PADEP Category 1 Hazard Potential Dam, was drawn down in 1986 due to safety concerns and potential for a dam failure.

More specifically, please see the following project description.

A) Within the Mill Dam Basin (including the original mill dam area) -Activities would include the removal of the existing 248 linear foot concrete mill dam by utilizing an excavator in conjunction with a hydraulic hammer. In addition reconstruction of 680 linear feet of stream channel within the remaining basin (including the original dam site). The new 680 linear foot stream channel segment would include the construction of one (1) rock "J" hook and four (4) rock cross-vanes for grade control. The project would also result in the loss of a total of 0.31 acre

of emergent wetlands that developed within the basin sediments for channel construction and 0.06 acre of temporary impacts associated with silt fence construction. The 680 linear foot length of stream channel would be constructed of rock channel lining (3,860 cubic yards of R-7 Rip Rap and 600 cubic yards of AASHTO#57) and would also result in the permanent discharge of 0.99 acre of rock below the ordinary high water mark of the original basin outside of wetlands for channel construction and cross-vane/"J" hook construction.

B) Within the Stilling Basin and immediately below — Activities would include the removal of the existing 5,325 square foot concrete stilling basin just below the mill dam with creation of 100 linear feet of channel through the stilling basin and 395 linear feet downstream of the stilling basin by hydraulic hammer and excavator. The new 495 linear foot stream channel segment would include the construction of two (2) rock "J" hooks and two (2) rock cross-vanes for grade control. A 495 linear foot length of stream channel would be constructed of rock channel lining (3,340 cubic yards of R-7 Rip Rap and 540 cubic yards of AASHTO#57) and would also result in the discharge of 0.75 acre of rock below the ordinary high water mark of the existing creek for both permanent channel construction and cross-vane/"J" hook construction. One underground electrical line would be relocated from an aerial crossing on the existing steel bridge to an underground electrical line. This would require a trench approximately 4 ft wide by 68 linear foot long to be constructed perpendicular to the stream channel.

C) Downstream Segment (Just Upstream of Sportsman Road Creek Crossing) - Activities would include restoration of 100 linear feet of stream located 613 feet below the mill dam. A 100 linear foot length of stream channel would be restored with rock channel lining (1,700 cubic yards of R-7 Rip Rap and 300 cubic yards of AASHTO#57) and would also result in the discharge of 0.33 acre of rock below the ordinary high water mark of the existing creek for channel construction. No construction of cross-vanes or "J" hooks is proposed in this segment.

D) Downstream Segment (Just downstream of Main Street Creek Crossing)—Activities would include the removal of the existing 22 linear foot check dam located 180 linear feet below the Main Street creek crossing with restoration of 310 linear feet of existing channel. The new 310 linear foot stream channel segment would include the construction of two (2) rock crossvanes for grade control. A 310 linear foot length of stream channel would be restored with rock channel lining (410 cubic yards of R-7 Rip Rap and 50 cubic yards of AASHTO#57) and would also result in the discharge of 0.07 acre of rock below the ordinary high water mark of the existing creek for both channel construction through the check dam, stream reconstruction, and cross-vane/"J" hook construction.

Additionally, up to 500 linear feet of channel at any point in time would be temporarily dewatered by placement of an upstream sandbag or "Jersey" type barrier dam and pump system with sump pit (1,000 square feet of rock temporarily placed below the ordinary high water mark). The dam and pump system would be moved along the stream as work progresses. The applicant has stated the following: A) that all banks would be stabilized with rock and vegetated with willow whips, B) that no temporary mats, culverts, or fill would be required to be placed within the wetlands for temporary access, C) wetlands within and adjacent to the mill dam basin to remain undisturbed would be fenced along the perimeter prior to construction, and D) with the exception of the work described in the area "within the stilling basin and immediately below" there will be no utility lines (underground or aerial) disturbed for the completion of the project.

PURPOSE: The applicant's stated purpose and need for the dam removal and associated stream restoration is to reduce the likelihood of the property flooding during extreme flow events from dam overtopping and stream channel deficiencies and to create stream habitat both upstream and downstream of the dam. The applicant has also stated that the need for removal of the existing PADEP Category 1 Hazard Potential Dam is also to remove the potential for loss of life and substantial economic loss through damage to private property, major highways, railroads, and utilities associated with dam failure.

A preliminary review of this application indicates that the proposed work would not affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the proposed work should be submitted, in writing, within 15 days to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

Review of the National Register of Historic Places (Register) indicates that no registered properties are located within the permit area of the work. However, an historic properties investigation has been conducted within the permit area. Historic properties eligible for listing on the Register are within the permit area and will be adversely affected by the proposed action. Further investigations and coordination with the SHPO is required to avoid, minimize or mitigate the "Adverse Effect" to the historic property.

Compensatory mitigation: Pursuant to 33 CFR 332 (the "Mitigation Rule"), the applicant has submitted that various alternatives for avoidance, minimization, and compensation for aquatic resources, such as wetlands, lost have been reviewed. The spillway for the dam is insufficient to pass the PADEP Chapter 105 regulated storm event. Therefore changes to the facility are mandated by PADEP. In the design of changes options such as spillway widening and channel modifications were reviewed. The least impact to the wetlands was achieved with the selected stream layout and dam removal.

The project would create uplift in the aquatic environment by allowing fish migration from below the dam to reaches further upstream due to the removal of the obstruction. The removal of the dam and use of willow stakings would remove the thermal impacts of the impounded water, allowing for more cold water aquatic species. The construction of the habitat would provide for the additional improvement to the aquatic resources. The channel would be constructed in such a manner that will allow for a low flow channel and a bench. The bench would be similar to the existing wetland area as during high water events it would be inundated and may develop into wetland areas in time.

Although the project would directly remove a portion of the existing wetland located behind the dam, the project would maintain the stream channel and no permanent obstructions or encroachments will occur, allowing the area to remain an aquatic feature. The area being removed would be more conducive to natural reestablishment of wetlands if the natural habitat adjacent to the stream expands organically. Therefore compensatory mitigation should not be necessary nor is it intended for this project.

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

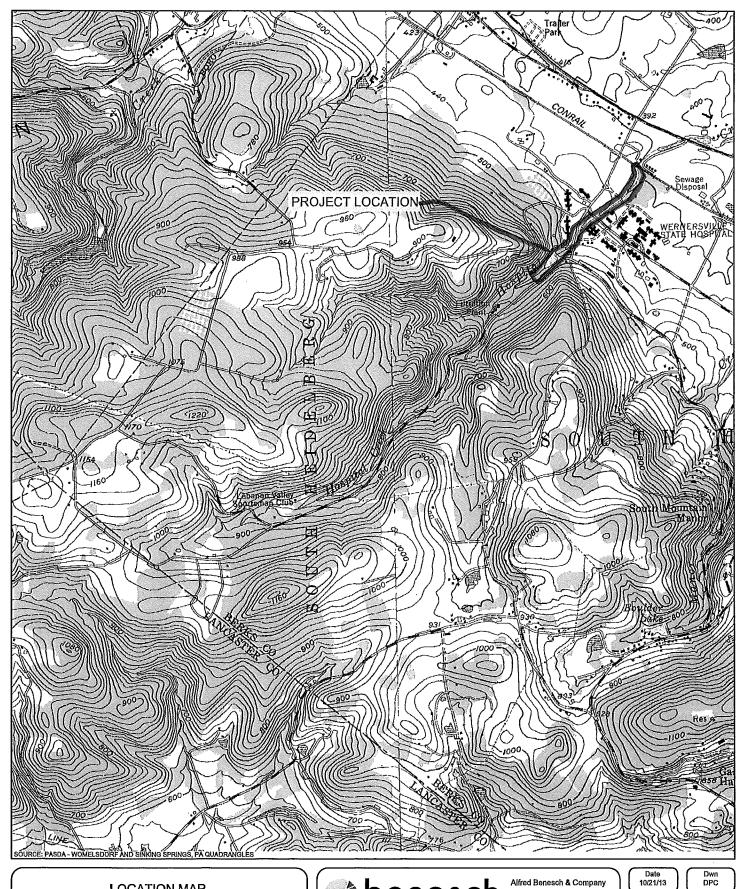
The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

Any person may request, in writing, to the District Engineer, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state in writing, with particularity, the reasons for holding a public hearing.

Additional information concerning this permit application may be obtained by calling David J. Caplan at 215-656-6731, via email at David.J.Caplan@usace.army.mil, or by writing to this office at the above address.

Frank J. Cianfrani

Chief, Regulatory Branch



LOCATION MAP REPAIR BREACH MILL DAM BREAST WERNERSVILLE STATE HOSPITAL SOUTH HEIDELBERG TOWNSHIP BERKS COUNTY, PENNSYLVANIA



Alfred Benesch & Company 400 One Norwegian Plaza Pottsville, Pennsylvania 17901 570-622-4055

Date 10/21/13

Scale 1:2000

LOCATION MAP

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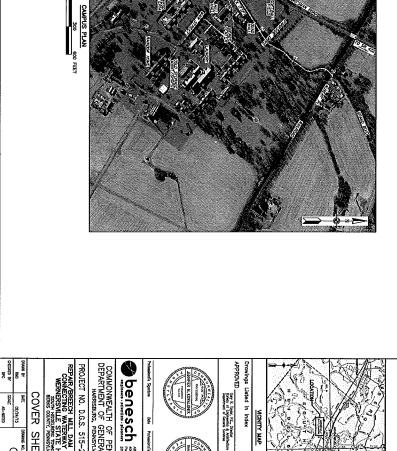
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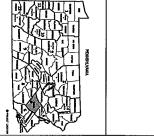
Tom Wolf, Governor HARRISBURG, PENNSYLVANIA Sheri Phillips, Secretary

PROJECT NO. D.G.S. 515—29 PHASE 1
REPAIR/BREECH MILL DAM BREAST AND CONNECTING
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WERNERSVILLE STATE HOSPITAL

SOUTH HEIDELBURG TOWNSHIP, BERKS COUNTY, PENNSYLVANIA



















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GENERAL DEMOLITION NOTES

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SOUTH HEIDELBERG TOWNSHIP MUNICIPAL AUTHORITY SISSA MOUNTAN HOME ROAD SINKING SPRINGS, PA 18608 (610) 878-9652 WERNERSMILLE MUNICIPAL AUTHORITY 250 N. BLA ST. WERNERSMILLE, PA. 18565 (810) 678—4711

SOUTH HEIDELBERG TOWNSHIP 555A MOUNTAIN HOME ROAD SINKING SPRINGS, PA 19608 (610) 678—9652 VERIZON PENNSYLVANIA, INC. 2651 LESZS BRIDGE ROAD READING, PA, 19805 CHRISTOPHER MACKREDS (810) 971—4250 UCI UTILITES INC.
225 MORGANTOWN ROAD
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WERNESWILL STATE HOSPITAL 160 MAN STREET P.O. BOX 300 WERNESWILL PA 19565 ROBERT ARTZ (\$10) 927-4751

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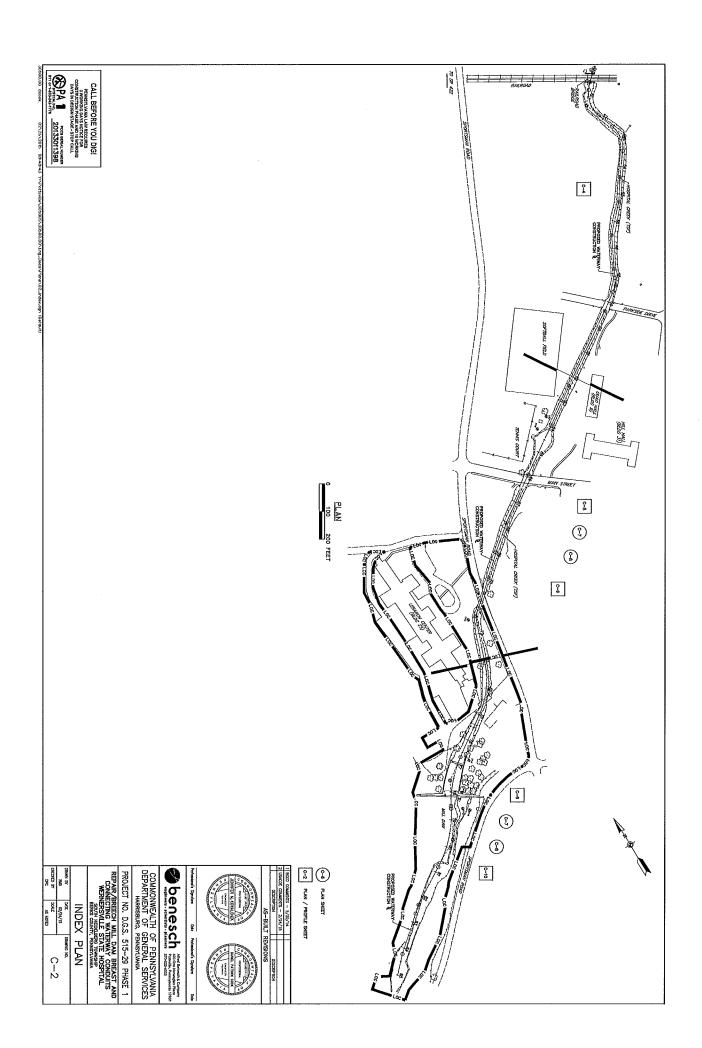
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA

PROJECT NO. D.G.S. 515-29 PHASE 1

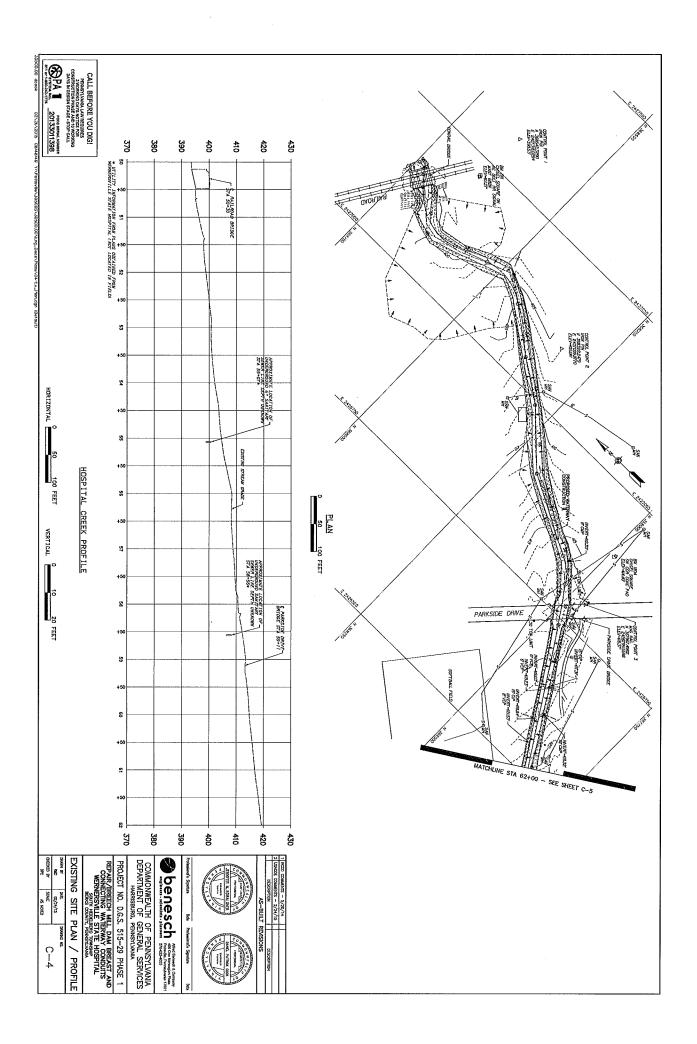
REPAIR/BREECH MILL DAM BREAST AND CONNECTING WATERWAY CONDUITS WERNERSVILLE STATE HOSPITAL SOUTH HOBELEG TOWNSHIP BERGS COUNTY, PENASTIVAMA

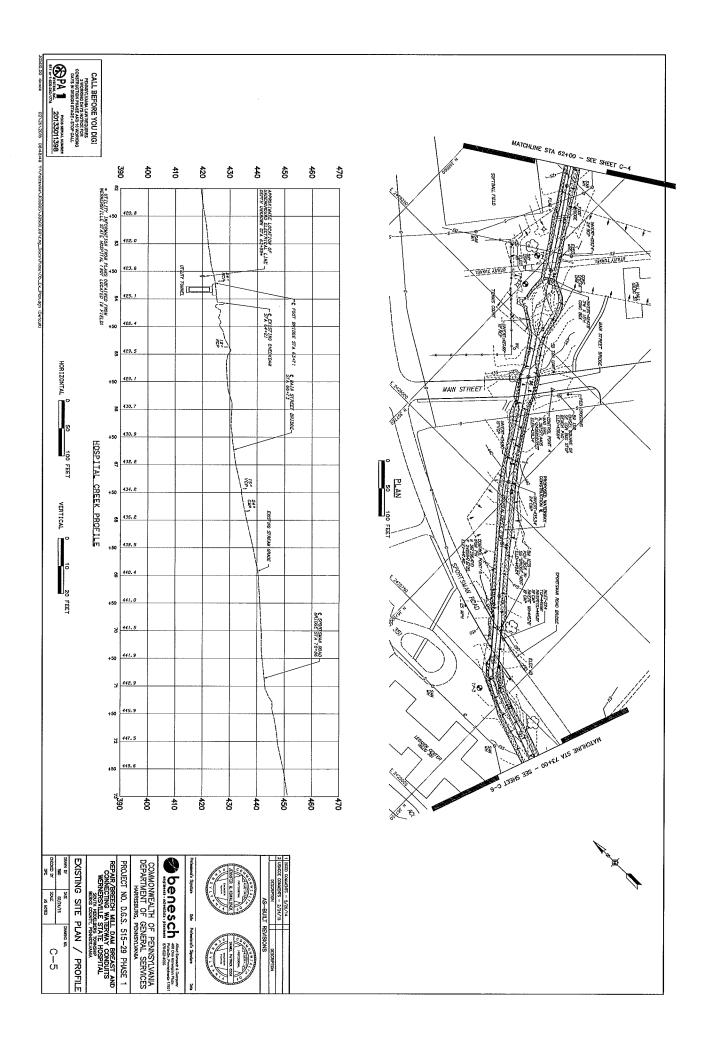
GENERAL NOTES

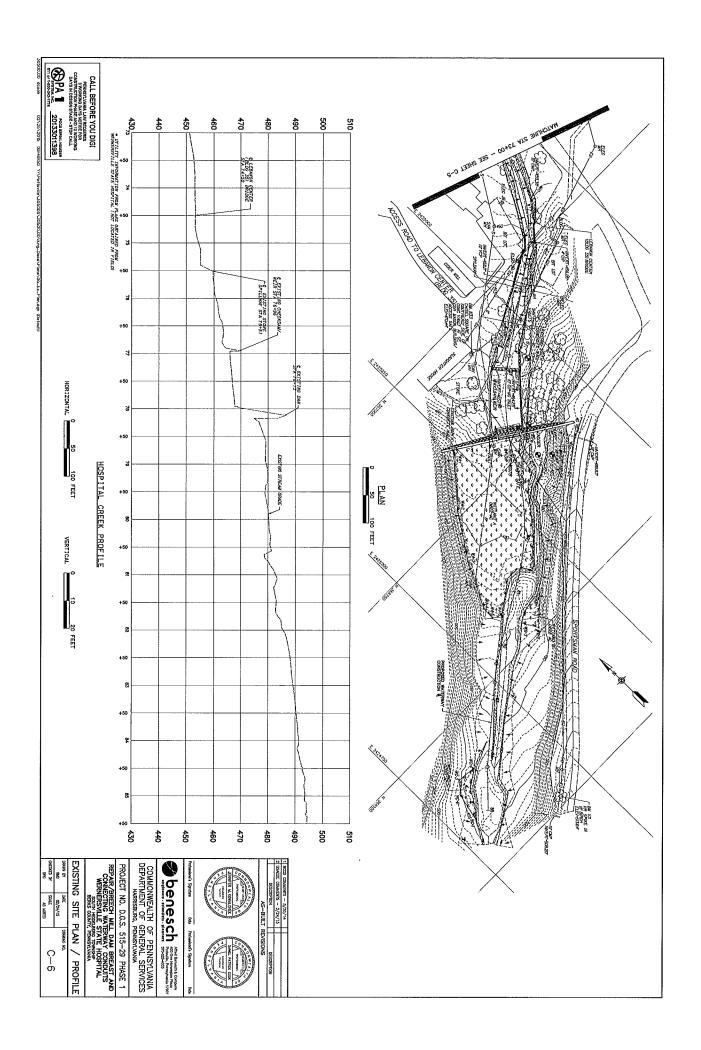
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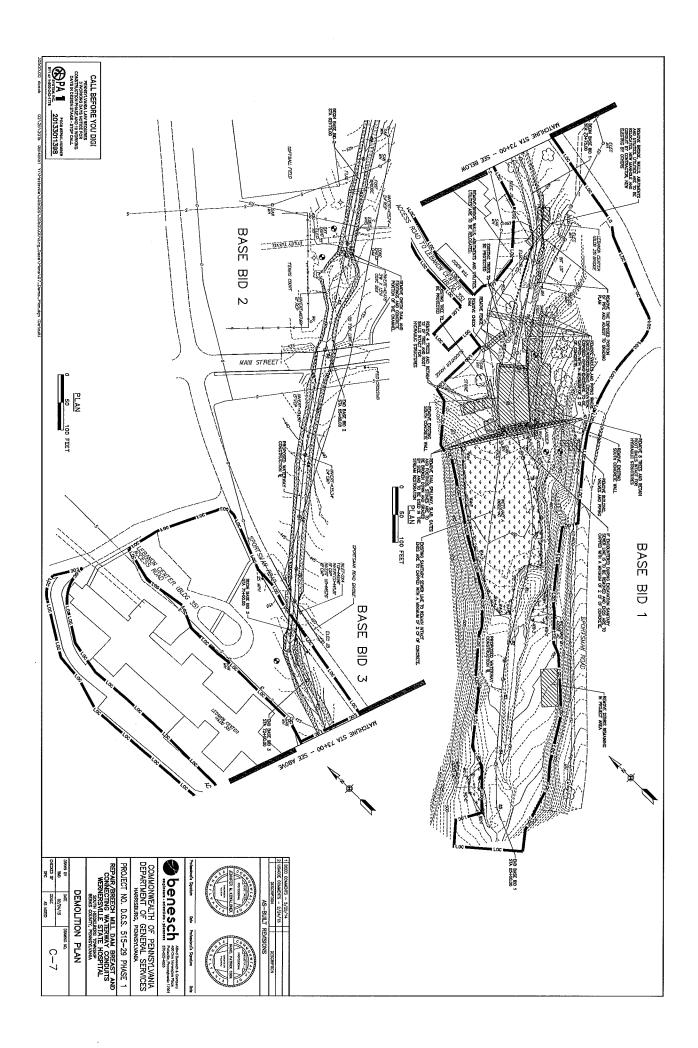


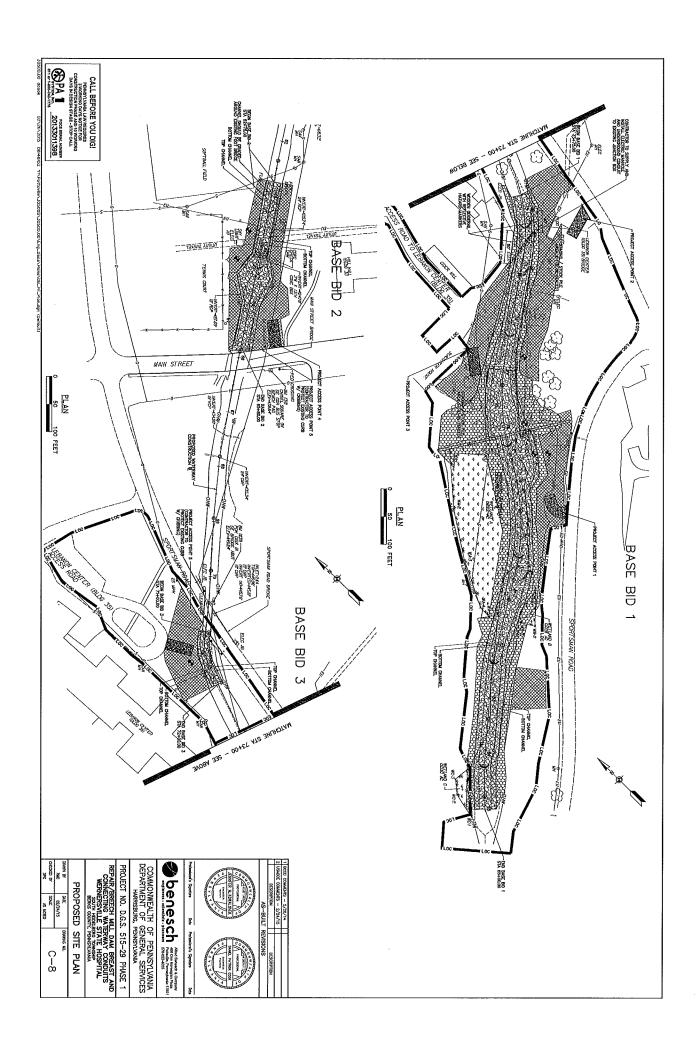
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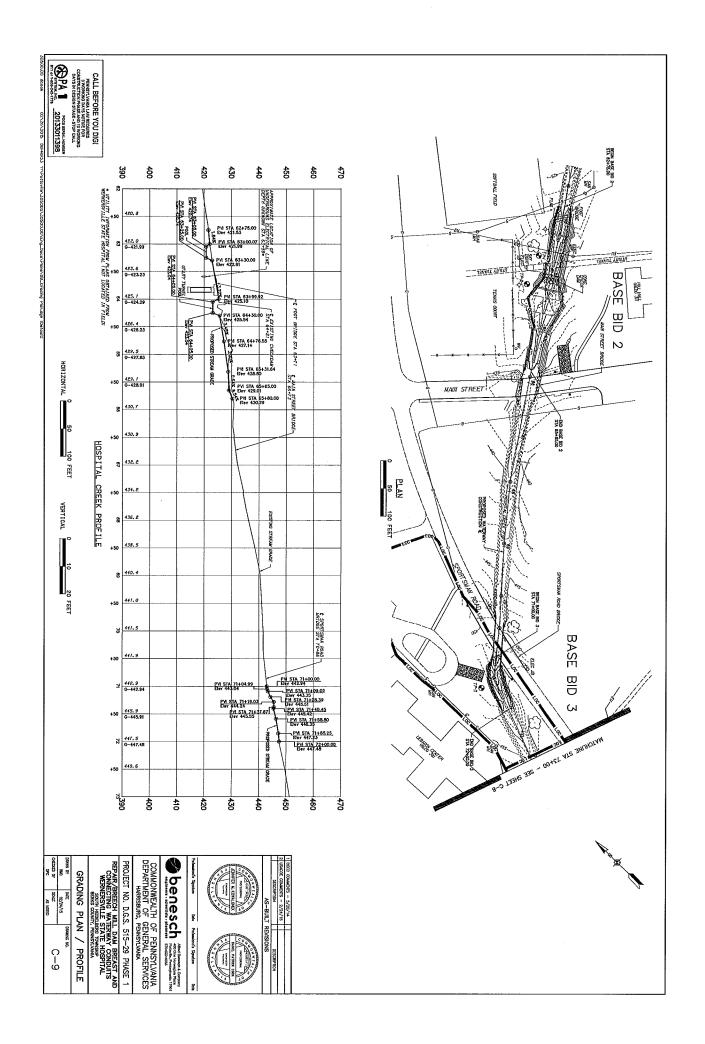


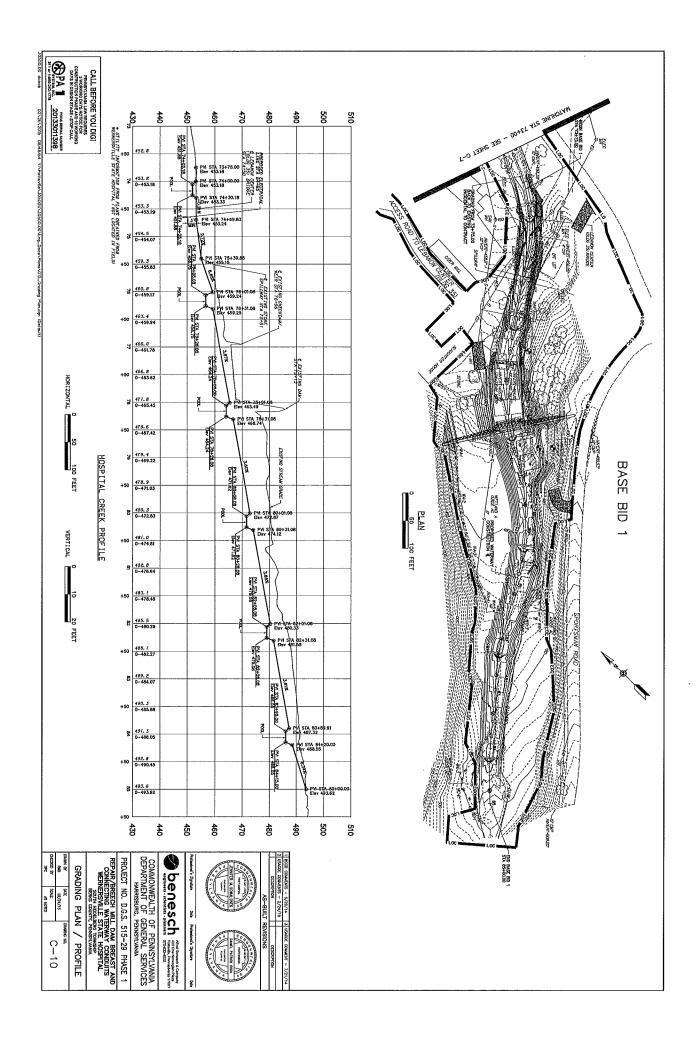


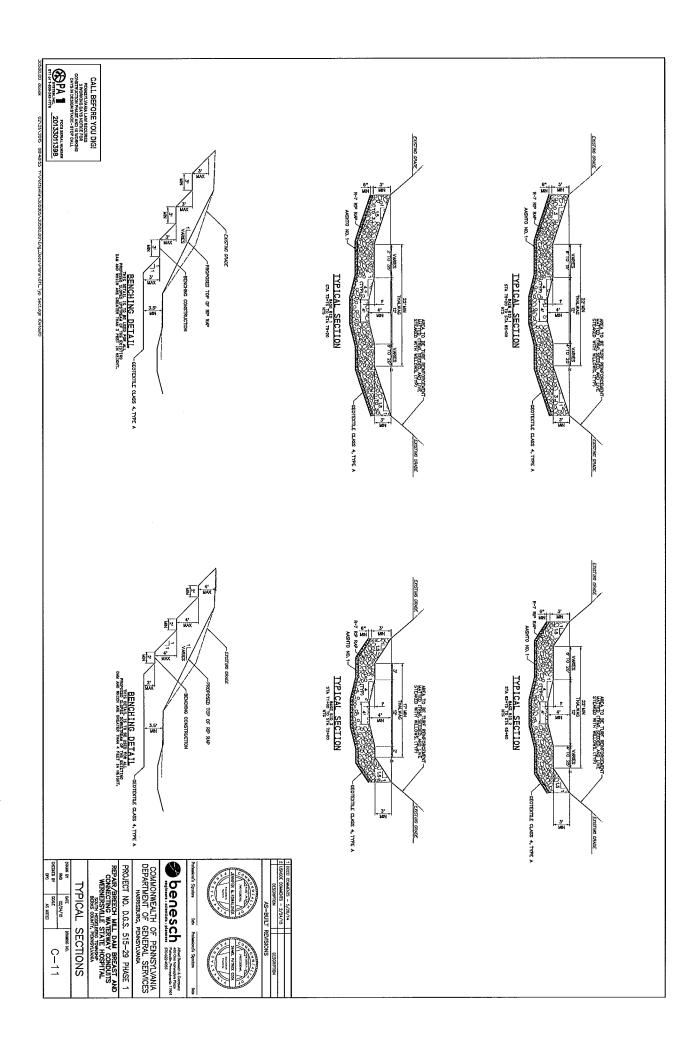


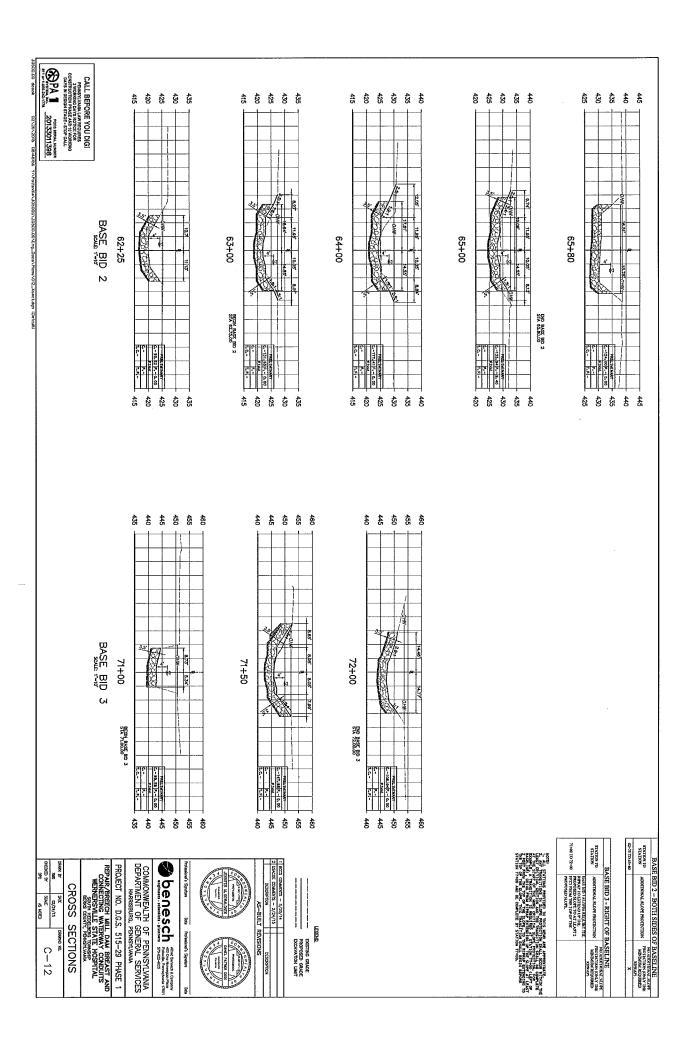


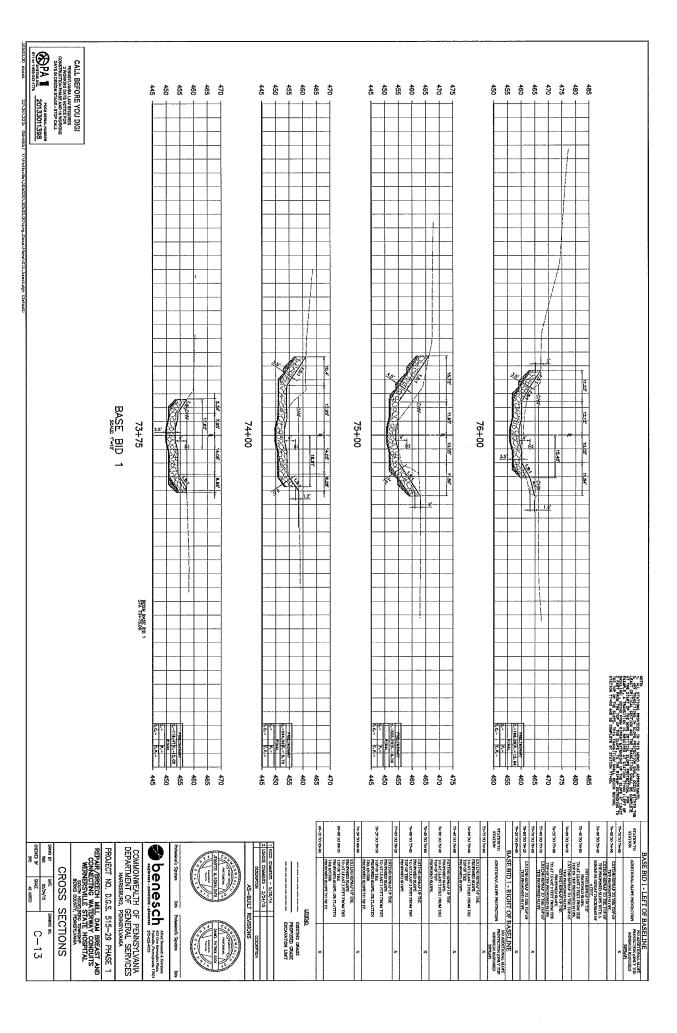


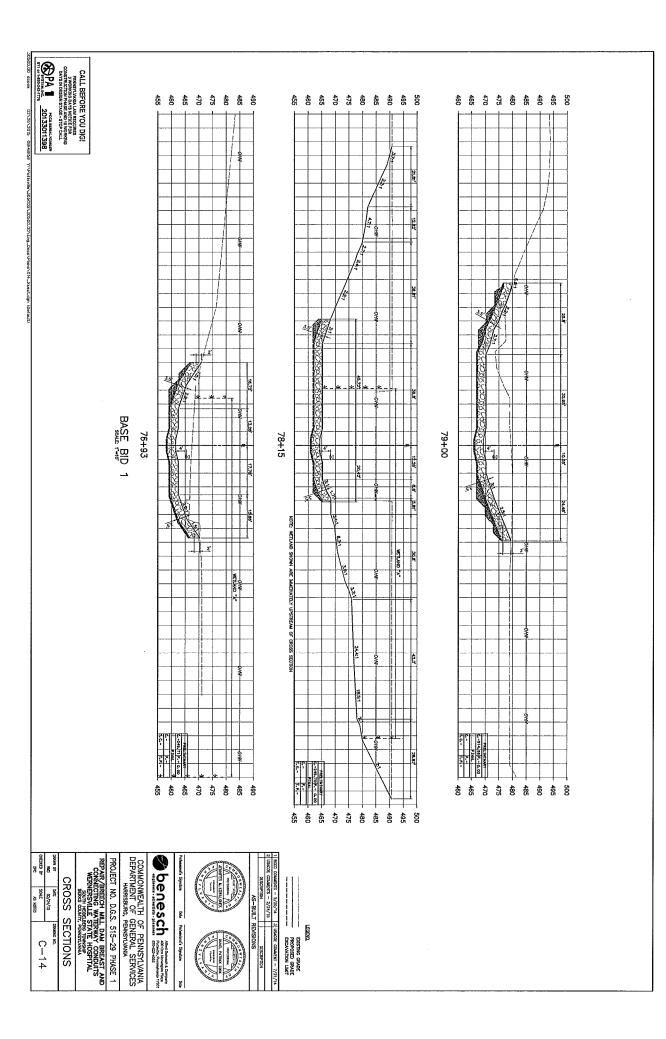


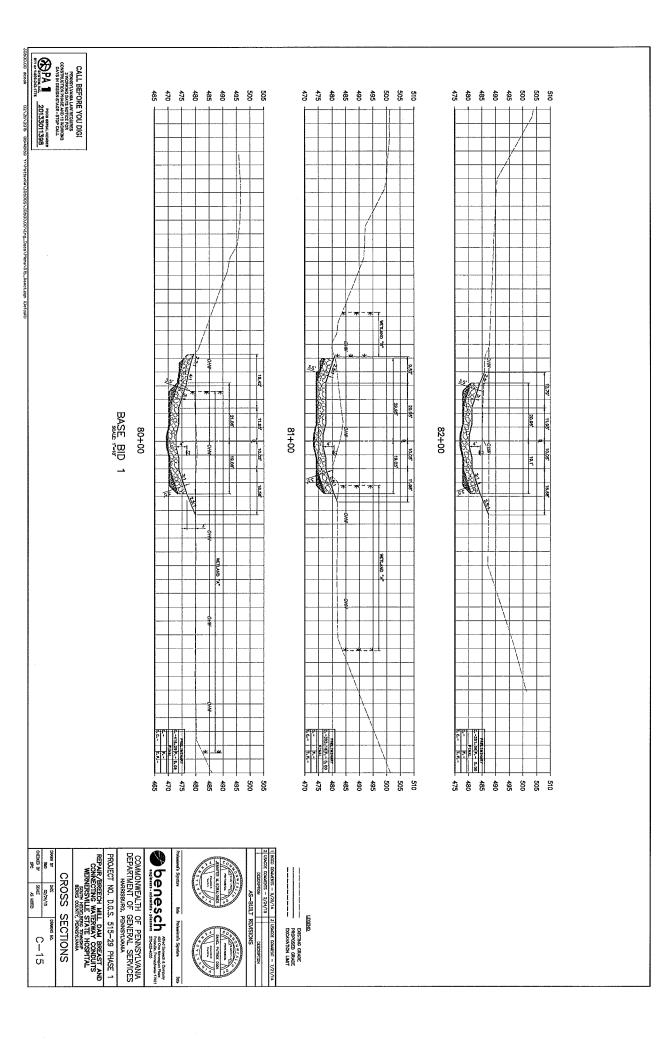


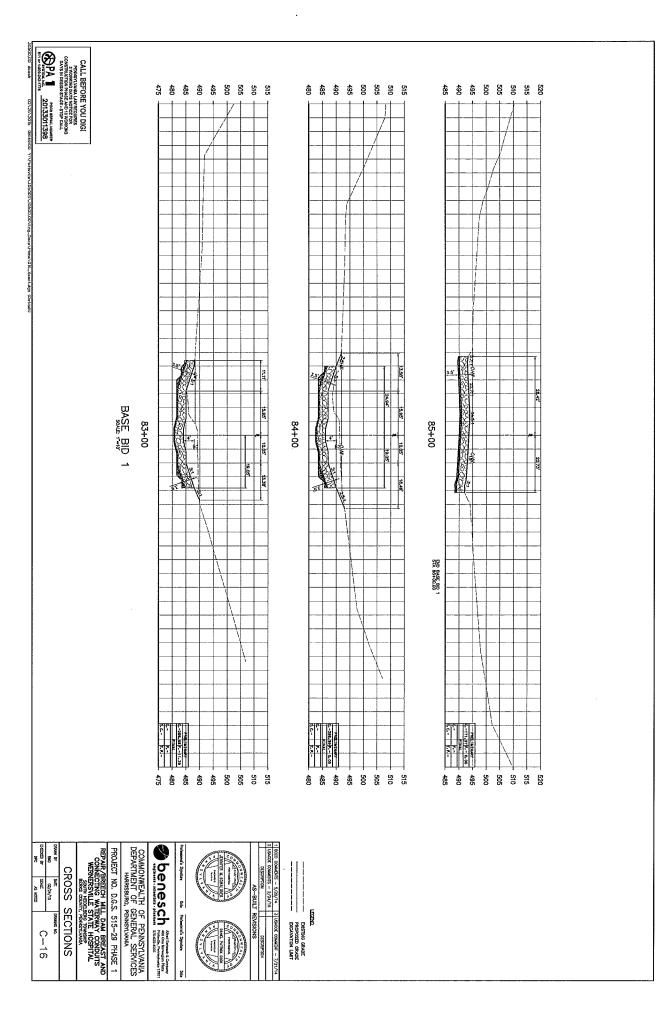


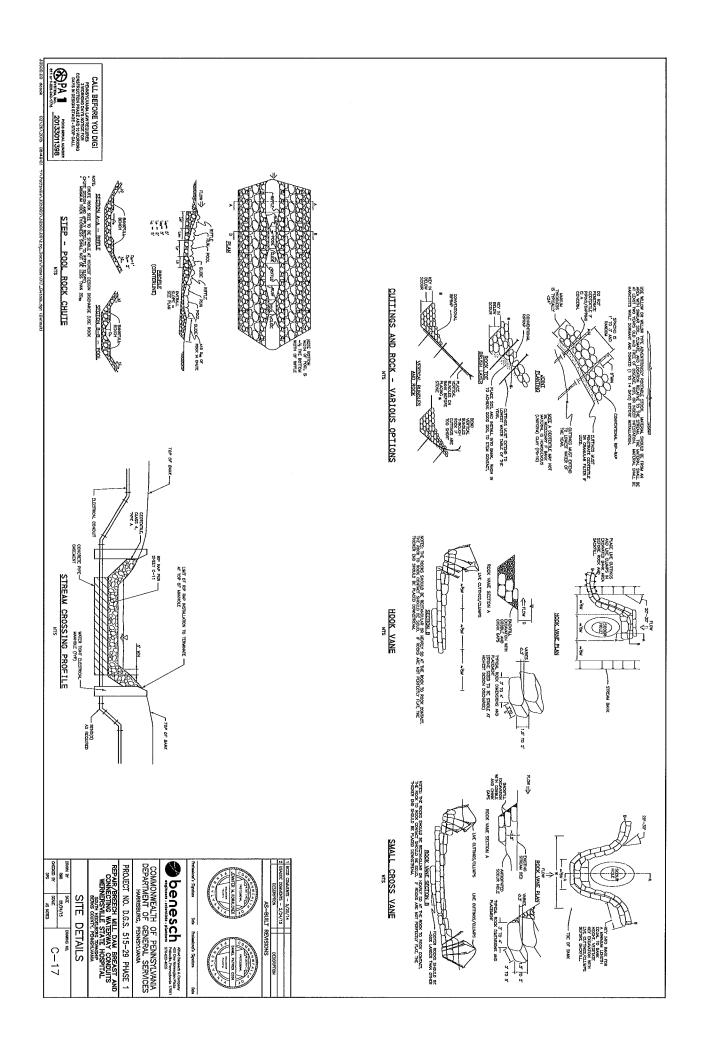


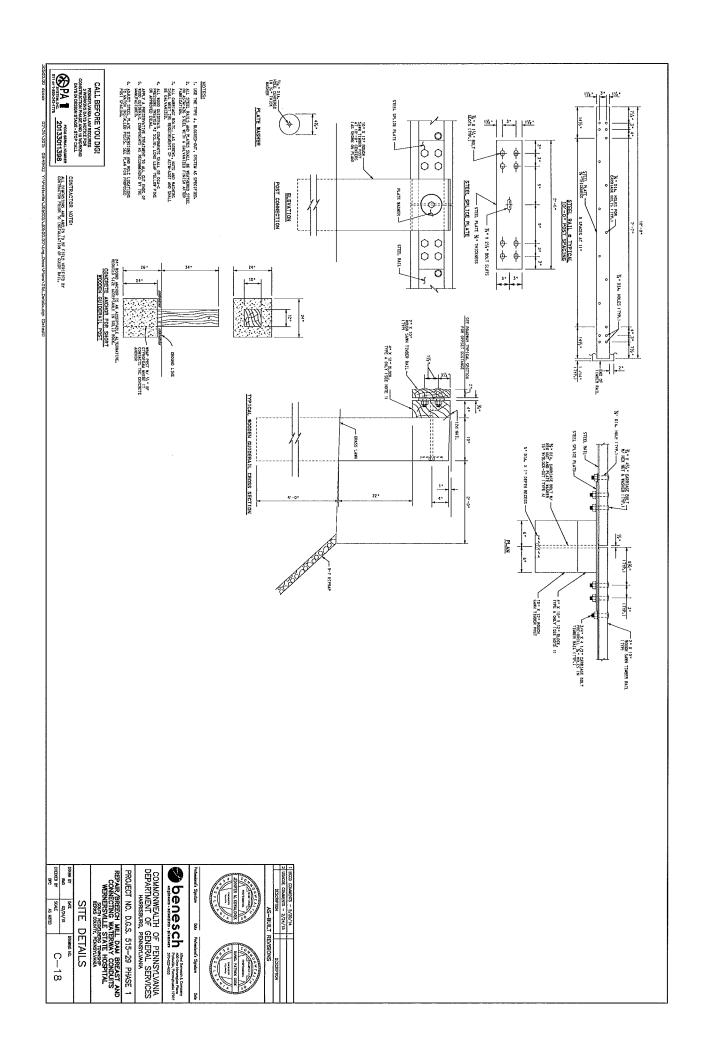


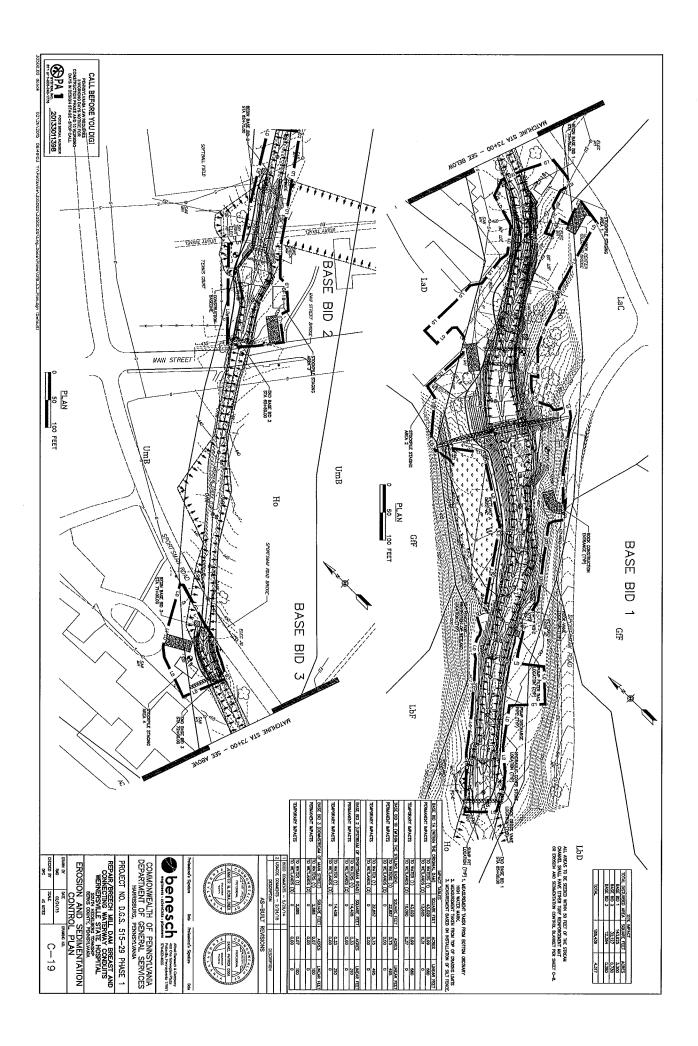












EROSION CONTROL POLICIES

6. MACDINITY IPON INSCONTRING INFORESTEN DEGULSTANCES POSMO THE POTRITIK FOR PORCHENIZIO ERISMANADUR STANDITOS TO MANUEZ THE POTRITIK DE EROSSINIANO SERMADIT POLLUTINI AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE RECOVAL OFFICE OF DEP. 4. NATURAL VECETATION SHALL BE RETAINED AND PROTECTED PRIDR TO AND DURING CONSTRUCTION. N. ACCHENACE, WITH THE CURRENT POLICES AND PRACTICES N. THE COMMONWEATH OF PORVINCE/MAIN TO CONTROL RESIDENT HE COMMONWEATH OF CONFIDENCE SWALL, AT RESIDENCE, BECUMED TO COMPONE WITH THE PALLWARD AS APPLICABLE AND IN ACCHONACE WITH INSTRUCTIONS OF THE BERGY COLUMN CONCENTATION CONTROL AND IN ACCHONACE WITH INSTRUCTIONS OF THE BERGY COLUMN CONCENTATION OF THE BERGY COLUMN CONCENTATION OF THE BERGY COLUMN CONCENTRATION OF THE BERGY COLUMN COLUMN CONCENTRATION OF THE BERGY COLUMN COLUM S. AT NO THE SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAY MAYOR THESE AREAS MUST BE CLEARLY WARED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN. L. A COPY OF THE APPROVED DRAWINGS (STAAPED SIGNED AND DATED BY THE REVIEWING NOENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. CLEARM, CRUBINA, AND TORSOIL STRIPPING SMALL BE LINTED TO THOSE AREAS DESCRIBENT FACH STAGE, OF THE CONSTRUCTIVE SCALENCE OF REASON, ACCESSING AREASON AND STRIPS SPECIED BY THE CONSTRUCTIVE SCALENCE FOR THAT STAGE OR PRASE IN PROJECT WHIT. HE BUR'S SPECIED BY THE CONSTRUCTIVE SCALENCE FOR THAT STAGE OR PRASE HAVE BED BEFORE JACILLENING MAY REVISIONS TO THE JAPOVED EROSSIN AND SEDURAT CONTROL 4. OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVELESS OF THE BOYLD ELS CONTROL PLAN, THE CHERATOR MUST RECEIVE JAPOVIAL OF THE REVISIONS FROM BETORS COUNTY CONSERVATION DESTRUCT.

I, Unit i ne ste is stallizza al eas bust de mayando propert, mantenance Mast Allide Responsans of al leg dens after each andre form aon a negre ses, all prospiatate and religious mantenance were, maldians clam out, repara, mediately, e esse base fall o program as decettica until de persona austrolisas of notae esta-leg unit dens program austrolisas of notae esta-leg unit de readuren. 7. ALL PUMPAG OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER MOISTIMEDE VECETATED AREAS, DISCUMBED POINTS HOULD BE ESTABLISHED TO PROVIDE FOR MAXIMUM DISTANCE TO ACTIVE WATERWAYS. ALL GRADED AREAS SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE STRUCTION SCOURNCE, MID VECETATED AREAS MUST BE STABILIZED IMAZDIATELY WITH SEED IN MULCH EMODI-PIERE ON PAPER-PIERS MILLON AT THE RATE OF 1,500 LES PER AGE, OR PER MANIFACTUREN ECOMMENDATION, MAY BE APPUED BY A HYDROSEDDER, USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

NA COMPRETE WASH WATER SHALL BE HANDLED IN THE MAINER DESCREED ON THE PLAN POWNINGS, IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR PROMOMENTER STEELES. SEDMENT PROJECTO DATO. ANY PERILE ROUSWAY OR SENSUALS SHALL BE RETIRENDE TO. STREAMY THE EARL PLOCK WORK ON AND DESPOSED IN THE LAWREN DESCRIBED THIS PLAN. IN AD JOSPES IN THE LAWREN DESCRIBED THIS PLAN. IN AN OLSE SHALL THE SEDMENT BE WASHED, SHOVELED, OR SHEPT INTO ANY USDEL DITCH'S TOWN SENTER, OR SHEPMALE WATER. ALL EXCAVATION FOR UTILITY LIKE NET/ALLATION SHALL BE LIMPTED TO THE AMOINT THAT BE DECAVATED INSTALLED, BUSPILLED AND STRIBULED, WITHIN ONE WORKING DAY. ALL AVATED MATERIAL SHALL BE DEPOSITED ON THE UPSLOPE SIDE OF THE TREMON. ELSOO FACETIES AND BUS SHALL BE CORRECTLY NETALLED AND MARTAED. THE EAS V PREPAREL AS WILL AS EXPENSIVATIVES OF THE BEARS COUNTY CONSERVATION DISTRICT BE CONTACTED FOR SUPPLICIONAL NEGROATION REGARDING THE MANTENANCE AND STRUCTION OF THE PROPOSED LEAFER BUPS.

OD. A LOG SHOWING DATES THAT EAS BUTS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MANYAMED ON THE SITE AND BE MADE AVAILABLE TO REQULATORY ACENCY OFFICIALS AT THE TIME OF INSPECTION.

HOUSE SEASON THE STANDARD CONTRACTOR OF THE STAN AL RECOVERA NO DEPOSA, OF CONTINUETRON MASTE SMAL, RE M ACCORDANCE WITH ALL RECOVERANCE MASTE SMALL RE M ACCORDANCE WITH ALL AND STATE BUILDS, WAS RECOVERED AND MASCE MANAGEMENT WASTE MASCE MANAGEMENT AND ADMINISTRATION OF THE MASCE AND ADMINISTRATION OF THE MASCE THAT COLD ADVERSAL AND AND THE MASCE THAT COLD ADVERSAL AND SMALL RECOVERATION AND CONTRA MATERIALS THAT COLD ADVERSAL AND SMALL RECOVERATION OF THE MATERIALS THAT COLD ADVERSAL AND SMALL RECOVERATION OF THE MATERIALS THAT COLD ADVERSAL AND SMALL RECOVERATION OF THE MATERIALS THAT COLD ADVERSAL AND SMALL RECOVERATION OF THE MATERIALS THAT COLD ADVERSAL AND SMALL RECOVERATION OF THE MASCE OF CONTRACT AND ADVERSAL AND SMALL RECOVERATION OF THE MASCE OF

1. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET, STOCKPILE SLOPES MUST BE 2HITV TUNTER.

EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES SHITV OR STEEPER, WITHEN SO FELT OF A SURFACE WATER AND ON ALL OTHER DISTURBED ANEAS SPECIFIED ON THE FLAN MAPS MOVING BOTHLE SHEETER ON THE PLAN MAPS MOVING BOTHLE SHEETER. RAMED ARAGED AREAS SHALL BE FERMANDTLY STABILIZED MARDIATELY UPON REACHING PROMED GRADE, OUT SLOPES IN COMPETENT BEDROOK AND ROOK FILLS NEED NOT BE VEGETATED. NOME GRADE AREAS SHALL BE PERMANENTLY STABLIZED IMMEDIATILY UPON REACHING PROSECULAR COLFETINI BEDROCK AND ROCK FELLS NEED NOT BE VEGETATED. I, STRAW MULCH MUST BE APPLIED AT RATES OF AT LEAST 3.0 TONS PER ACRE. STRAW MUCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. N. LIPON TEDPORARY CESSATION OF AM EARTH DISTURBANCE OF AMY STACE OR PARE OF AM ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES EXCEDE A DAYS, THE SITTL SHALL RE MAZDATELY SEEDED, ALLCHED OR OTHERWEE PROTECTED FROM ACCELERATED FROMOSOM AND SEDMENTATION PROMOSE CTURES EARTH DETERMINES ACTIVITIES. 6. AREAS WIGH ARE TO BE TOPSOLED SHALL BE SOMBERD TO A MINIMAN DEPTH OF 4 MORES PRIOR TO LACEMENT OF 100-SOULAREAS TO BE VICENTID SHALL HAVE A NAMEWAY BUSES OF TOPSOLE AP PAGE PRIOR TO SEEDING AND MECHAN, FILL 31 OR GREATER SHALL HAVE VANISHAM OF 2 NORSE OF TOPSOLE. MEDANTA, MTDS, CARTH MOSTUBANCE, ACTIVITES, CECEE N. MY, AEX, 06, SIEJAEZ, 06 TRANSCE, THE OFFICE OF THE OFFICE OF

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PENASYLVANA LAW REQUIRES

SYCHEMO DAYS NOTICE FOR

CONSTRUCTION PHASE AND 18 WORKING

DAYS IN DESIGN STAGE-STOP CALL

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9. STREP AND STOCKPILE TOPSOIL FROM THE AREAS WHICH MUST BE DISTURBED FOR THE STREAM RECONSTRUCTION.

ILMULCH MATERIALS AND BINDERS SHALL BE ROLLED IN PLACE BY TRACKED VEHICLE OR OTHER SUITABLE EQUIPMENT. PERO AND THINK DEVICE B TO 10 PEROS TO WITHIN 2 TO 3 OF THE SOIL SUBFACE FORM A NATIONAL THINKS, TAKES BAY BE DEVICED REPORTED A FEET APPLYON MACH SCIENCE THE MALCH TO THE SOIL SUBFACE OF STRETCH PART THANKS THE MALCH TO THE SCHOOL FOR THE THE MALCH TO THE SCHOOL FOR THE THE MALCH TO THE SCHOOL FOR THE THE OWNER DEVICE THANKS. CAULCH ANCHONIC SHALL BE ACCOMPLISHED MAEDINTELY AFTER PLACAMENT TO MINITELISE BY WAYD ON WATER, THIS MAY BE DONE BY ONE OF THE FOLLOWING METHOUS, DPDIADNIC UPON THE SIZE OF THE SLOPE. AUCICH MATERIALS SHALL BE UNROTTED SALT HAY, HAY OR SMALL GRAN STRAW APPLIED AT THE RATE OF 3 TONS PER AGRE MULCH BLOWER SHALL NOT ORNO OR CHOP THE MATERIAL WOODCHPS FREE OF INSECTS AND DISEASE ARE PERMITTED AT A RATE OF 4-6 TONS PER ACRE. MULCH NETTING. STAPLE PAPER, AUTE, COTTON OR PLASTIC NETTINGS TO THE SOIL SUPPACE USE DECRANABLE NETTING IN AREAS TO BE NOWED. BARLICH SHALL BE SPREAD UNFORMLY BY HAND OR MECHANICALLY SO THAT APPROXMATELY $85 \times 70^\circ$ for the soil surface will be covered. TO MULCHING SHALL BE PROVIDED AS REQUIRED IN AREAS DIFFICULT TO VEGETATE, AND DURING OFF-SEASON OPERATIONS, MULCHING METHODS AND MATERIALS SHALL CONFORM TO THE FOLLOWING: S-PEMANENT STIBILIZATION IS DEFINED AS A MANUAL MIPPONL PREDMAN, 70% VESETATION COVER OR OTHER PERMANENT MAN-VESETATIONS COVER WITH A DESIRY SUFFEDIAT TO RESET ACCELERATED REGISEN, CUIT MAD ITAL SLOPES SHALL BE CAPABLE OF RESISTING FALURE DUE TO SLUMPING, SLOWG, OTHER OXYGENETIA. DAPPLICATIONS SHOULD BE HEAVIER AT EDGES WERE WIND CATCHES THE MULCH, IN VALLEYS AND AT CRESTS OF BANKS, REMANDER OF AREA SHOULD BE UNIFORM IN APPEARANCE.

Werker Eddesyn Sob, Eddeson, Procince or Royme, or Spylady is divingly for Americans, when the second secon F,OTHER:

, All Deling Mittary and Watter best te removed from the step recycling or deposed of in accordance with the cervatura is sound waste almost activated by activations of despite conjugate sool, seed it seed, 27th, and 28th feet, seed, no beling matternes of waters of waters beling to activate at the seed of the seed o 2.ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN EAS PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR DEP FILLY IMPLEMENTED PRIOR TO BEING ACTIVATED. MATERIAL NOTES

ATHE COMPARIONS E RESPONSEL FOR EXAMINE THAT MAY MATERIAL BROUGHT ON STITE CLEM THAT IN THE PROPERTY BE EXTENDED IT THE USED CASIFY FOR MAY THAT METERAL PETENDEN TESTING, ALL FILLS SHEET BE COMPACTING AS REQUIRED OF BEDIEVE DESIGN, SERVICE STITLDEN, TESTING, ALL FILLS SHEET BE COMPACTING AS REQUIRED OF BEDIEVE DESIGN, SERVICE STITLDEN, SEEDDOKE OR CHER SEALTED PROBLEMS THA INTOMO TO SUPPORT BELLINKES, STUDTIMES AND CHARLES, TICL SHALL BE COMPACTING AND CONCIDENCE WITH LOCAL PROBLEMENTS OR CORES. S.FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, RODI'S, SOD, OR OTHER FOREIGN OR OBLECTIONNELE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FLLS. HACKL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN IFROZEN WATERIALS OR SOFT, WUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE

9.SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD. 7.FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. JUNGERBONN) UTLITES CHTTMS THRUBH ANY ASTIF CHANEL SHALL ER IMMENTLY POSTULID NO THE CHANEL RESTORED OT STORMAL COSSECTION AND PROTECTIVE LINGS, ANY EXCETLED WHICH THE CHANEL SHALL ER CONFETED PACT THE WORK AREA IN THE MAINER DESCRIBED IN THIS PAUN UNITL EICH RESTORTIONED OF COMPLETE. MANEL NOTES SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL ROCKS. LALCY-MANELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL ROCKS. LEVES, WOODY DEBNS, ACCUMILATED SEDMENT, EXCESS VEGETATION, AND CONSTRUCTION METRIA-WASTES. isedment remond from BMPs smal be deposed of in landscaped areas outside of steep isopes, betlames, floodplams or drakkae swales and immedately stabilized, or placed in Opsol. Stockpiles

CONSTRUCTION SEQUENCE

NCHAMELS HAVING RIPRAP, RENO WATTRESS, OR CABRIN LARINGS WUST BE SUFFICIENTLY OF THE VICTORIAN TO SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE ROTORITE LARING.

4, ALL EARTH USTIMBRANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SECURICES PROVIDED ON THE FAIL PROVIDED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY DEP PRIOR TO MPLEMENTATION. 3. AT LEAST 3 DAYS PROR TO STAPTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY DAMANCES THE PENINGY LAWAR, ONE CALL SYSTEM ING. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. 4. ILLER 7 LAYS PROR 10 STAFFINS ANY EARTH SETTIBLANG ACTIVITIES BIGLIONG CLEWIG AND CHEBRICH, THE CHIEFACTOR SHALL MATTER LA SED CONTRICTIONS, INCH CARRY, APPROPRIAT, LAUFEL, CHEFALLS, HE ELS PLAN PETPART, HE POST CONSTRUCTION STORMATTE AMMODIATE PLAN PROPRIAT, THE LORDED PROST SHOWN RESPONDED FOR OVERSION OF ORTHOL STATUS OF BUILDERT NEW OF THE PERSONSTRUCTION METPING. CONTRACTOR SHALL INSTALL THE APPROVED BYPASS PUMPNIC/ STREAM DIVERSION SYSTEM AND 5. THE LIMITS OF DISTURBANCE (LOD), STREAMS AND WETLANDS SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES (I.E. SURVEY STACES, POSTS & ROPE, CONSTRUCTION FENCE, ETC.). I, ALL FAFTI BOTTERWICES, NOLIDING CLEARMS AND GREBBING ES WILL AS DITS AND FILL SHE PLOSE IN ALCOHOLOGY WITH THE PROPERTY OF A CHARLES AND DAVID BY THE REPORTED ESS PLAN. A DOOR OF THE REPORTED SHAWNESS FOR AND DAVID BY THE REPORTED ESS PLAN. A DOOR OF A CHARLES AND PART OF THE REPORTED THE THE PROPERTY OF A PROPERTY OF A CHARLES AND CHARL AT NO TIME SHOULD THE CONTACTOR PLACE EQUIPMENT IN THE EXISTING WETLANDS. PRIOR TO STARTIAL OF WOOK PLACE THE ROCK CONSTRUCTION ENTRANCE COMPOST FLITER SOCK MY AUDITIONAL TEMPORARY EROSION AND SEDMENTATION CONTROLS SUCH AS SEEDING FOR BILIZATION.

CONSTRUCTION SEQUENCE (CONT)

IL CONTRACTOR SHALL EXCAVATE AND RELIONE THE EXSTING DAM, AND SPILLWAY TO CRADE. THE CONTRACTOR SHOLLD RETIVAL THE EXISTING STONE FOR USE IN THE STREAM RESTORATION, THE CONTRACTOR SHALL RE-GRADE AND STABILIZE THE DISTURBED AREAS. TICONTRACTOR SHALL REMOVE TREES AND RETAIN ROOT BALLS FOR FUTURE USE AS HYDRAULIC STRUCTURES.

LICONTRACTOR SPLYL, REMONE SIZMANT TO PROPOSED SUBSIANE, ONCE DOCUMENTO THE CONTRACTOR SPLAL PAUSE COS-PICTLE AND REPAYS SIZZD IN MOCROSHANCE, WITH THE PLAN TO FINAL COME? THE CONTRACTOR SHOULD TAKE CAUTION TO CONSTRUCT THE PROPER THANWAL AND PROVIDE PROPER GRADE FOR THE MYDIAULIC STRUCTURES. IS HYDRAULIO STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLAN AND UNDER THE DIRECTION OF THE PENNSYLVANA FISH AND BOAT COMMISSION PERSONNEL. 14.CONTRACTOR SHALL CONTACT THE FISH AND BOAT COMMISSION AT LEAST 4 WEEKS PRIOR TO THE CONSTRUCT OF THE HYDRAULIC STRUCTURES.

MAPTER PINA STE STREATHIN HIS RETA HORIZO, IDEPORMY EAS BUTS LIST BE REMOIDED OF CONVETED OF DEBUGGET POST CONSTRUCTION STREAMING THE MANAGEMENT BUTS AND STREAM OF THE BUTS LIST BE STREATED MEDIATELY, A PORENT TO ENSURED BUTS BE STREATED MEDIATELY, A PORENT TO ENSURE DAVID REVOLUCION OF THE BUTS AND HORIZON MORPHONE STREAM TO MANAGEMENT OF THE CHARMANING STREAM OF PRIMARY EAST SCHOOL SHOULD BE COME HAVE UNIVERSITY OF THE STREAM OF T 17.ALL AREAS OUTSIDE OF THE CHANNEL SHALL BE STABILIZED WITH APPROPRIATE SEED MIXES,

SEEDING APPLICATION DATES

ORBERTAL SERIES SERIES MERIES NOTATION AND AT THE RAYES SERIES MERIES NOTATION AND AT THE RAYES SERIES IN THE RAYES SERIES SER

 FORMULA C -- RYEGRASS PORTION
MARCH 1 TO OCTOBER 15
CROWNVETCH PORTION
ANTIME EXCEPT SEPTEMBER
AND OCTOBER ◆ FORMULA W - APRIL 1TO JUNE 15
ALGUST 16 TO SEPTEMBER 15

HHERE PROJECT CONDITIONS MARRAYT, SECTION DATES MAY BE EXTENSED. IF EXTENSED, EITHER APRILY THAT, THE AREAST OR APRILY ORACLY SOUR OF THE PERMANENT SECTION ON SECTION IN WIRTHOO BY THE AROLESSIANL.

AL TRESHO SLOPES SHALL BE SEDED MOJOR MILITHD IN APPROVALITLY 'S FOOT MERBLEYTS WITH PERLIMENT PASSESS SEEDING SEPTIMES SHOWN IN THE SH ON TOPSOILED AREAS, WHERE TEMPORARY SEEDING OR MUTCHING HAS BEEN APPLIED, USE TILLAGE AND SOIL SUPPLEMENTS PRIOR TO PERMANENT SEEDING. CONTRACTOR SHALL PLACE TELEPORARY SEEDING AND MURCH TO THE AFFECTED AFECS MANEDIATELY FOLLOWING CONSTRUCTION, AND PLACE THE PERMANENT SEEDING IN THE APRIL 1 TO JUNE 15 SEEDING SEASON.

| * | m | ۲ | c | SEEDING AND SOIL SUPPLEMENT FORMULA | SCHEDULE OF SEE | | |
|---|----------------------|---|------------------------------|--|---|---------|--|
| - SELECTED DITCHES AND WETLANDS AS DIRECTED OR AS INDICATED | - TEMPORARY SEEEDING | - ALL SLOPES 31 AND FLATTER, AND SWALES, DITCHES | - ALL SLOPES STEEPER THAN 34 | APPLICATION | SCHEDULE OF SEEDING AND SOIL SUPPLEMENT | TABLE B | |

ANY DISTURBED AREA ON WHICH ACTIVITY HIS CEASED AND WHICH WILL REAMN EXPOSED FOR MORE THAN 4 DAYS UP THE SECOND AND WHICH WE MEDIATINE, DESIREDING AREA WHICH WE RESISTERED WHICH IT THE MAY BE SEEDED AND ALLOHO WITH A DURACE CONFINE TEDERATEY SEEDEN ANTIPE AND MALLOHO WHICH AND THE AND MALLOHO WHICH A PROMADED CHARE OF MALL NOT BE RESISTERED WHICH IT THE MUST BE SEEDED AND MALLOHO WHICH A PERMANENT SEED MALLOHO AND MALLOHO WHICH IT WAS MUST BE

NOTE: ALL DISTURBED AREAS MUST BE 85% STABILIZED BY NOVEMBER 1.

| | AULE A | | | | |
|---|----------|----------------|----------------|----------------|---------------------------------|
| FORMULA AND SPECIES | THOISW | RINGH POLICE | NO TANINA 10 | WEED SEED | SEEDING RATE PER |
| FORMULA CI GROWINVETCH (CORONILLA VARIA) ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) | 845 | 98 68 | 70 80 | 00 00 00 | 9.0 Total 4.0 5.0 |
| FORMULA LI HARD FESCUE MIXTURE (FESTUCA LONGIFOLIA) A COMBINATION OF MAPROVED CERTIFED VARIETIES WITH NO COMBINATION OF MAPROVED CRY FE THE TOTAL MARKET | 55 | 96 | 85 | 0.15 | 24,0 Total 13.0 |
| PESCOLE COMPUNENT. CREEPIG RED FESCULE ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) | 86 | 98 98 | 985 | 0.t | 25.5 |
| FORMULA EI ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) | 100 | 98 | 90 | 0.15 | 10.0 Total 10.0 |
| FORMULA W: TALL FESCUL (FESTUCA ARUNDINACEA VAR KENTUCKY 31) BIROSTOOT TREFOIL MIXTURE (LOTUS CORICULATUS) REDTOP (AGROSTIS ALBA) | 10 10 | 98 98 92 | 85 86 86 | 0.00 0.15 | 10.5 Total 7.5 2.0 1.0 |
| LAWN MIX PERENMAL RYEGRASS (PENNFINE) KENTUCKY RYEGRASS CREEPING RED FESCUE | 8228 | 98 98 | 85 85 | 000 000 | 45.0 Total |

SOIL SUPPLEMENTS APPLICATION RATES

SOM, SEPPLEMENT, DWEGGLY APRY CHEPOLOGYTS TO THE AREAS TO BE SECURIAL PICEP PRICES. TO BE SECURED STRIP FORMULA L. CHEPOLOGY REPAIR MORP THE MITTER TO BE SECURED STRIP FORMULA TO PROSECUE AREAS BLOOD THE MITTER TO BE SECURED STRIP FOR THE PROSECUE REPAIR STRIP FORMUL DESCRIPTION OF STRIP FOR THE PROPERTY IN THE MICHAEL STRIP FOR THE SECURITY WITH THE SEC. MAY BE PERFORMED UNION TILLING POPULATIONS.

PRIOR TO PROJECT COMPLETION, APPLY SLOW-RELEASE, NITROGEN FERTILIZER TO THE SURFACE OF FORMULA L SEEDED AREAS, DO NOT APPL SLOW-RELEASE NITROGEN FERTILIZER SUPPLEMENTS TO FORMULA C SEEDED AREA.

APPLY SOIL SUPPLEMENTS AS FOLLOWS, UNLESS OTHERWISE INDICATED

PULVERIZED AGRICULTURAL LIMESTONE - 800 POUNDS PER 1000 S.Y. 10-20-20 ANALYSIS COMMERCIAL FERTILIZER

32-0-0 TO 38-0-0 SULFUR COATED UREA FERTILIZER 59 TO 50 POUNDS / 1,000 S.Y. AS DIRECTED

38-0-0 UREAFORM FERTILIZER

 50 POUNDS PER 1000 S.Y. 140 POUNDS PER 1000 S.Y.

SOIL SUPPLEMENTS

1, PALVEREZE AGRICULTURAL LIMESTONS. COMPONING TO THE RECOVERABITS OF THE AGRICULTURAL LIMES AFTERWALS AFT OF 1978 P. L. S NO. 9, PERS. 132-0, AS MEDIBED COMPONING TO THE CURRENT STATE SPECIFICATIONS NO. 1-38 FOR GROUP 1, CLASS B, TYPE, MO. 400 HAVING AN EFFECTIVE RETIFICATION POPERS OF NOT LESS THAN 84.

2. COMMERCIAL FERELEZES. CONFORMER TO THE RECURRENATIS OF THE PRINTFLAMM CONTINUES AND ANALYSIS OF RESERVANCE AND AND THE PRINTFLAMM CONTINUES OF THE PRINTFLAMM CONTINUES OF THE PRINTFLAMM CONTINUES OF THE PRINTFLAMM CONTINUES OF THE PRINTFLAMM CONTINUES. OF THE PRINTFLAMM CONTINUES OF THE PRINTFLAMM AND CONTINUES. DEED FOR THE PRINTFLAMM AND CONTINUES. DEED FOR THE PRINTFLAMM CONTINUES. DEED FOR T

3. SLAW RELIES MIRRORY PETRICES, CONFROME TO THE RECHIRENTS OF THE PRINCIPLANT SEE CONSTITUENT AND FLAMT GOWTH SUBSTRUCE LAW, ALT OF RECEMBER 1, 1977, TH-1258, AND SE CREASED.

A MICRORY OF POINTLATIONS OF EITHER 28-0-0 USE-FORM, ZP-0-0 TO 38-TO SULTIN CONTROL USEA, JOHN DE JUNE AND LIFE ANALYSIS AS NOCHED AND THE TALLIFING SEADMOSPHER MALYSIS AS

• 38-0-0 UREAFORM
TOTAL NITROGEN (TN)
COLD WATER INSOLUBLE
NITROGEN (MR)
ACTIVITY INDEX (A)
UREA NITROGEN 25% uinimum
40% winimum
3.5% minimum - 38% MINIMUM

32-0-0 TO 38-0-0 COATED UREA WITH A 7-DAY DISSOLUTION RANGE OF 20% TO 30%

31-0-0 (800 WATER INSOLUBLE NITROGENIWIN) -272 MINIMUM COARSE GRADE (0.7 TO 2.5 MM)

OTHER ANALYSIS AS INDICATED, SEE POLICIES 30. 1 BOCD COMMENTS - 5/20/14
2 USACOE COMMENTS - 2/24/15
DESCRIPTION





benesch 400 0n Novoglan Pleza engineers - scientists - planners 570-023-4025

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA PROJECT NO. D.G.S. 515-29 PHASE 1

REPAIR BREECH MILL DAM BREAST AND CONNECTING WATERWAY CONDUITS WERNERSYNLLE STATE HOSPITAL SOUTH HIDDLERG TOWNSDP BERGE COUNTY, BERGE COUNTY,

| | AS HOTED | Po |
|---------------|----------|-----------|
| 07-0 | Spec | SCOKED BY |
| | 02/24/15 | RMD |
| TON CANAMAIG | DATE | DRAWN SY |
| L NOTES | CONTRO | |
| SEDIMENTATION | ON AND | EROSION |

MULCH TYPES

MLCKS, FRE FRM FROM DISTRIC, CAMES ETAS, AND ANY SISTEMASS TOOL OF PARTY FROM THE PARTY AND ANY SISTEMASS TOOL OF PARTY FROM MUSIC SISTEMAS STAND OF ROOM THE PARTY FROM TH

1.4 HAY. TMOTHY HAY, MAKED CLOVER AND TMOTHY HAY, OR OTHER ACCEPTABLE WIGHT. BY WEIGHT. 18. STRAW, ETHER WHEAT OR OAT STRAW, REASONABLY FREE OF VABLE SEED, WELL-CURED TO LESS THAN 20X MOISTURE CONTENT, BY WEIGHT. l seeded areas, either one or a combination of the following, as specified:

MULCH APPLICATION RATES

MACHINE SEDEN ARKS, PLACE MACHON, OR WOOD CELLACORY ON THE SEDEN OR WIND AN A SHEEK SEDEN ARE WOOD CELLACORY THE SEDEN OR WOOD CELLACORY THE SEDEN OR WOOD CELLACORY THE SEDEN OR WOOD CELLACORY OF THE KNO NICKELLY AREA OF THE THE KNO NICKELLY AREA OF THE KNO NICKELLY AREA

PLACE HAY OR STAM MATERIALLY, M. COMMINIST BLANCT, M. A.
MANUA RET. OF 1200 PROMISE RET (1000 SOURCE, WRITE, M. A.
MERORES AROUNTE, P. DRECTION, NAMELICE THE DATE OF
MILLITHON, LEPTOMOR LIPEN, THE MATERIAL LIPEN, SECON, CO.
MORTING, OR METODO OF APPLICATION, M. ACESTIMES EXCHANGEL
MORT HAZES METOD OF APPLICATION, MAY ACESTIMES FOR MALIOS HOW
MORT BRIEDS METOD AT THE TRATISHON MONTED.
MORT BRIEDS APPLIED AT THE TRATISHON MONTED.

WOOD FINELY, 160 POUNDS PER 1,000 SQUARE YARDS. RECYCLED-CELLULOSE FIBER, 100 POUNDS PER 1000 SQUARE YARDS

POLYVIN'L ACETATE, AT MANUFACTURER'S RECOMMENDED RATES RECYCLED CELLLAGE FIBER/WOOD FIBER WIXTURE, 180 POUNDS PER 1,000 SOUARE YARD NONASPHALTIC EMILSION, AT MANUFACTURER'S RECOMMENDED RATES

JPRY WOOD FREE #42.04 HYDRALLOFLY N JCOODDANCE WITH THE WARPSCHOREST WAR ARMA WARD WITHOUTDING IT, UNIT RE INCORPORATIO AS AN AITCRAF JARRY AFTER THE SEE SEEN AND SOL SUPPLIDATE WAYE RESENT HORIZION Y MADELLOFT LARGO MACHINET PER VICTO CAUMET WARDS, MACESS OFFICINESS. NECHTEL. ON TOPSOLED AREAS TEMPORARLY SEEDED AND/OR KILCHED INCORPORATE WITH TILLAGE PRIOR TO PERMANENT SEEDING. MULCH TEMPORARY SEEDED AREAS WITH HAY.

MULCH NETTING

1. PLASTIC. A UNIFORMLY EXTRUDED, RECTAHOULAR, PLASTIC MESH MEETING THE FOLLOWING REQUIREMENTS:

WEIGHT. MESH OPENNO -0.23 OUNCE PER SQUARE YARD, MNUMUM -NOWAL YALBY YA. -BLACK, GREEN, OR GLEAR

2. COCONUT COIR, UNDYED, BIODECRADABLE COCONUT COIR YARN WOVEN INTO A MESH MEETING THE FOLLOWNG REQUIREMENTS: MESH OPENING WEDCHT -NOWNAL 2 IN BY 2 IN -6 OUNCES PER SQ, YARD WINDLE

MULCH NETTING APPLICATION RATES

1. PLATIC. NETALL KETTHE OPER DESENTION ALLEY ESPEKE.
NETRIVALS. OPERAD ALACCET FAMILE WITHE BY NOT LESS THAN 4.
HORDINALS OPERAD ALACCET FAMILE WITHE BY NOT LESS THAN 4.
HORDINAL FAMILE OF MEAN OF THE OPERADAMETELY STANKE FIND
EMBAGEN FAMILE OF MEAN BY OPERADAMETELY STANKE FIND
SCHOOL YAND OF MEAN.

2. COCONUT COR. NSTALL NETTING OVER DESCANTED MALCH SURFACE, STRETCH FARRO TIONILY AND ANCHOR WITH WOOD STAKES ALDING ALL DOZE AT 0/5/10 7 FOOT NITRAVILS, OVERLAP ADJACENT FARRO WIDTHS BY NOT LESS THAN 8 MONES.

| FERTILIZER 10-20-20 GORMULA W & E) | LMC | SOL SUPPLEMENTS | TABLE C | |
|------------------------------------|-----|--|---------|--|
| 140 | 800 | APPLICATION RATE PER 1000 SQ, YD, (LBS.) | E C | |

SOIL TYPES:
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Get Schreiber at our
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Int our at our
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PA 1 CALL BEFORE YOU DIGI
PENASYLVANIA LAW REQUIRES
3 WORKING DAY'S NOTICE FOR
CONSTRUCTION PHASE AND 16 WORKING
DAY'S IN DESIGN STAGE-STOP CALL

MAINTENANCE AND OTHER EROSION CONTROL POLICIES IN ACCOUNT WITH CONTROL POLICIES IN ACCOUNT WITH CONTROL PARCEL AND RECORD IN THE COMMON OF PRINCIPLA AND RECORDS AND RECORD AND RECORDS AND R

PERFORM ALL WORK IN ACCORDANCE WITH CHAPTER 102, EROSION CONTROL REGILATIONS. , NSTALL ALL SOIL EROSION AND SEDMENT CONTROL PRACTICES PRIOR TO ANY MAJOR DISTURBANCE OR THEIR PROPER SEQUENCE, AND MANTAIN THEM UNTIL PERMANENT PROTECTION IS ESTABLISHED. ocautict all operations as specified n the drosson and secaladit polilition control play and Sich a langer to inhibee therebilty in streams, do hot discharge water containing sediments Polilutants into the streams.

, PERAMENTLY SEED OR SOD ALL EXPOSED AREAS MAEDATELY AFTER THAL GRADNO, MILEH AS ECCESSARY UNTL SEEDHO IS ESTABLISHED.

COMPRION JACES SHALL DE COMPRISON PRIMANENTY STIBULIZZA MORA A MERGIAL TOR PRIMANENT COCATANIC CONTRI NAS EINEN ALMONTO SE IN ESCRIBIONI JACES, SE CONTERNI MEN A MOSTIFIALE SE LAMACIDATE PRACTIC CIBAN PRIMA PREMANENTY LIMENTAS ACCURATION AND DIMONATANIA, PITTA MANA ESTIBULIZZA MANA BENDALINA CIBANICA CURRIALE MENTE SE REMONTA, MANCE SETURBIDI TORRIBA PROMONIA DE TORRIBA CONTROL SERVICIA PROMONIA PROMONIA PROMONIA PROMONIA PROMONIA PROMONIA PORTUGO CONTROL SERVICIA PROMONIA PR

I, DAN COMPETION OR THEFERMY CESSIMEN OF THE CHEM DETERMINE CHIMTH, OR MORE THE DETERMINE THE PROCESSION OF THE PROCESSION OF THE CHEM DETERMINE OF PROCESSION OF THE DETERMINE CHEMICAL STREET WHILE WE CHEMICAL STREET OF A PROCESSION OF THE THE PROCESSION OF THE EXCOLLANCE OF THE CHEMICAL STREET OF THE STREET OF A STREET OF THE STREET OF LITOCKPILE HEIGHTS MUST NOT EXCEED 35-FT. STOCKPILE SLOPES MUST BE 24 OR FLATTER.

TI SPRINCE OR APPLY DUST SUPPRESSOR OR OTHERWISE KEEP DUST WITHIN TOLERABLE LIMITS AT THE B. SEPARATE ALL WATER ORIGINATING OUTSBE OF THE PROJECT FROM THAT ORIGINATING WITHIN, DIVERSION CHANNELS, DEWATERING BASINS, AND STOCKPILES MUST BE STABILIZED MANEDIATELY.

2 CHICKES, ET, WILL BE BEJOND DITRELY OF THE SHIT TO A WAIT SHE APPRIVED BY THE MERCENAL THE CHINACTOR SHALL ASSURE THAT WE BESSION AS SERVENI TO SHITCH, PAN HAS BELL HERDER, APPROVED BY THE BERRES CHINTY CONSTRUCTION DETROIT, AND IS EXISAL MULTICIPITED OCCUPIENT, SHERVENI TO THE ATTEMPT OF THE SHERVENI SHERVENI SHE AND AN AREA SHERVENI SHERVE

s, in certain afle, due to stee l'attations and avaluale workspace, sediment fleter bass will be utilized, in leeu of demateria basies to control eroson and seziment eschariezs from Valeto decantaines.

S. STABILIZE ALL EXCAVATIONS/EMBANGMENTS MINEDIATELY UPON COMPLETION OF GRADING. 4. LL TOPSEL FROM THE OVERALL STIL PROPARATION HELDE STOCKHEID AT A STIL CHOOSEN BY THE OWITHERINE HAVE SEEDED TO PROTICET FROM BROSSEN SET FORCE HELDE SCRIPLLID HAVE NO SECURIARY CHAUND HELDE COMPLETE FROM STRUCTED FROM TO STOCKHE TO PROTICE SET FROM LICHNO THE STILL AT THE THE OF FAMA CHAUND THE TOPPOLE WELL BE COSTRIBUTED MAPCHALLY PROJUMENT THE STILL.

7, THE CONTRACTOR WILL BE RESPONSIVE FOR DEPLACEMEN AND PREPARED A REPRAINT ENSIGN AND EXPLANATE REPRESENCE AND THE CALLED WITH FOLLOWING THE CONSTRUCTION LIGHTS, THESE PLANS LIGHT BE SUMMITTED TO THE SHORT OF CONSTRUCTION LIGHTS, THESE PLANS LIGHT BE SUMMITTED TO THE SHORT OF CONSTRUCTION LIGHTS, THESE PLANS LIGHT BE SUMMITTED TO THE SHORT OF CONSTRUCTION DEPLACES THE OF SHICK MEXICAL. A TRE CONTRACTOR WILL BE DESPONSELE FOR THE PROPER REPORTING AND UNCEDS CONSTRUCTION. TREMEZICHOL, MO WARTHAMEKE OF ALL BROSON WAS SENDERTATION CONTRACES AND BEALTHEITHES ON THE THE UNIO JACKY WILL BE RESPONSELE FOR WANTARRO PERMARCHE EDISCON CONTROLS ON STILL WITH THAK STABLEGOOD.

a, clem semonyatno control denazs ovene constructon as regired, semient removem Trou eines simle denosed d'i il l'ancemed meus outsiel o' sitle supes, attiment, L'ocopelais de driange simles ard maediately stabilizadi, ar pluced n' topsoil stockfiles.

JAIT, THE SITE E STRUEZZA, LLL DODGOM MAD SZIMANET MENG MET BE MATINAND PROPERTY, MATCHANCE MED TAMBOL MEDICAN MAD SZIMANET BEST ATTER LOCAL RAWST MATCHAN MEDICAN MAS SZIMANET BEST ATTER LOCAL RAWST MATCHAN MEDICAN MAS SZIMANET BEST ATTER BETTAMBOD CENTRAL STRUET BEST AND SACTIFICATION OF PROPERTY BEST ATTERIOR OF THE MEDICAN MEDICAN MAS SZIMANET BEST AND MASS SZIM TER THAT ACCUMULATES IN OPEN TREMCHES OR CHONVATIONS WILL BE REMOVED THROUGH THE PUMPS AND DEMATERACE BUSINS PROR TO PPE, CONCRETE STRUCTURES, AND BACKFLL MORAL

AT THE CONTRACTOR SHALL REDOVE FROM THE STITL RECYCLE ON DISPOSE ALL DISCIDING WATERIALS AND ANDIES DA LECORDINATE WITH THE IDEPARTUANTS SOLD WISTE WANDEREDT RECLATIONS AT 20 PA TODE 2001 FT SCO., 2711 FT SCO., NO 2877 FT SCO. 2. COORDINATE ALL PRIPARESSO DIAMESES TO THE APPROVICE RECISION MAY SEEMENT PELLUTIONS CONTROL. AM WITH THE COPAMISTER FAN PRIPARESSOME, BASSO WARKS THE COPAMISTER NO PROPERESSOME. SEEMENT PELLUTIONS CONTROL PLAN TO THE CHERK AND PAPROVILL SERVET A RECISED RECISION AND SERVICE PELLUTIONS CONTROL PLAN TO THE DISERVANTIAN ESTRECT FOR RECIPIER AND DAPPROVILL

23. NOTIFY THE BENGS COUNTY CONSTRUCT ON DISTRICT 72. HOURS IN JOVANCE OF AMY LIND DISTRIBUNG TO THE FOLLOWING ADDRESS

ERKS COUNTY CONSERVATION DISTRICT USE COUNTY WELFARE ROAD TESPORT, PA. 1955.3 TISPORT, PA. 1955.3 TONE: (1610) 372-4657 GV. (1610) 478-7058

A, CZA, PEL S. DONDO JO INCOMMANTO, NEMANTO SCLIBEL, NAMPOZAMPOMEL HETY SCO.
MATCHAL, THE TIME NALESS SAL POCK STORE (PROCESSO PER NECE SECANO). REPORT MATCHAL THE TIME NA CONSTRUCTION AND CONS

PUMPED WATER FILTER BAGS GUIDANCE FILTERS WAS INVESTIGATED AND RELIED TO RATH WATER FORMED AND INTERPRETABLE AND RELIED TO SECURIOR TO WAITES OF THE COMMONDATION HIS VALUE OF SECURIOR TO RATE WATER PAPER FROM THE SEDIMENT STOWNER AND OF SECURIOR THROUGH.

TLIPE BASS SHALL BE MAE FROM A NORWOVEN GEOTEVITE MATTEM, SEWN WITH HANS PREMOTH, DOUBLE STITCHED "I" TYPE SEMES, FLEER BASS SHOULD BE CAPABLE OF TRAPPRIO PARTICLES LARGER THAN 150 MCROICS. THE PURPLY EATT SHOULD BE SPECIFED ON THE PLAN DRAWNOS MEXT TO THE TYPICAL DETAIL, PURPLY AREAS WHILL WARE PERSONNOL ON THE SEEL OF THE PLICE BAG, AND THE TYPE AND AMOUNT OF SEDMENT DISCHARGED TO THE EAG. THE CONTRACTOR SHALL CONTACT THE GOVERNING CONSERVATION DISTRICT FOR LOCATION APPROVAL PRIOR TO PLACEMENT OF ANY FILTER BACS. "CILITAY BUCS SHOULD BE INSTIALLED ACCORDING TO THE DETHALS SHOWN IN TIMONAD CHASTRACTION INSTIALS, AND THE PADEE BEOSIEN AND SEEDMENT "OLLUTION CONTROL PROGRAM MANUAL GLARCH 2012), PAGES 53-55.

BAGS SHALL BE LOCATED IN A WELL-VEGETATED (CRASSY) AREA, AND DISCHARGE ONTO STALLE FROCKIN RECISTANT AREAS, WHOSE THIS IS 110T POSSIBLE, A CECUTENTLE FLAW PAIN SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES OREASTER THAN BIX. N SUTABLE MEANS OF ACCESSING THE BAG WITH MACHINERY FOR PURPOSES OF ISSPENSE, SHOULD BE PROVIDED, PALTER BAGS SHOULD BE REJOYED FROM SERVICE WHEN THEY BECOME QUET-HAF EITHL. SPARE DAIS SHOULD BE AVAILABLE TO REPLACE THOSE THAT HAVE FALED OR MEE FALLED.

THE PUMP DESCURACE HOSE SHALL BE NEETED NTO THE BACS IN THE HANKES SPECIFED AT THE MANUFACTURES HAD SECURELY CLAMPED, THE PUMPHOR WHE SHALL BE HOS DELIFEST THAN 750 OPPON 1095/THE MANUFACTURED BY THE SCHEDICE.

HALL CEASE MAIDIATELY AID NOT RESUME UNTL'THE PROBLEM IS DETECTED, PUMPNI LITER BAGS SHALL BE INSPECTED DAILY, IF ANY PROBLEM IS CORRECTED.

MAINTENANCE PROGRAM

LE PRIME OF SEMIOT LADI. WATER SHALL BE THOUGH A SEMIOT CONTROL BAP, SCH. M. A. PAMPED WATER FATER BAG DISCHARGING OVER MON-DISTRIBLID AFLIKE.

, after frum, site stabilization has been achieved, telegrapy boson and secondif bays hist be rejoved, areas disturbed during Emoval, of the bays arist be stabilized banedately.

DEMANTA PTE REPIT CONSERVED, PTIMES CASCE, THE
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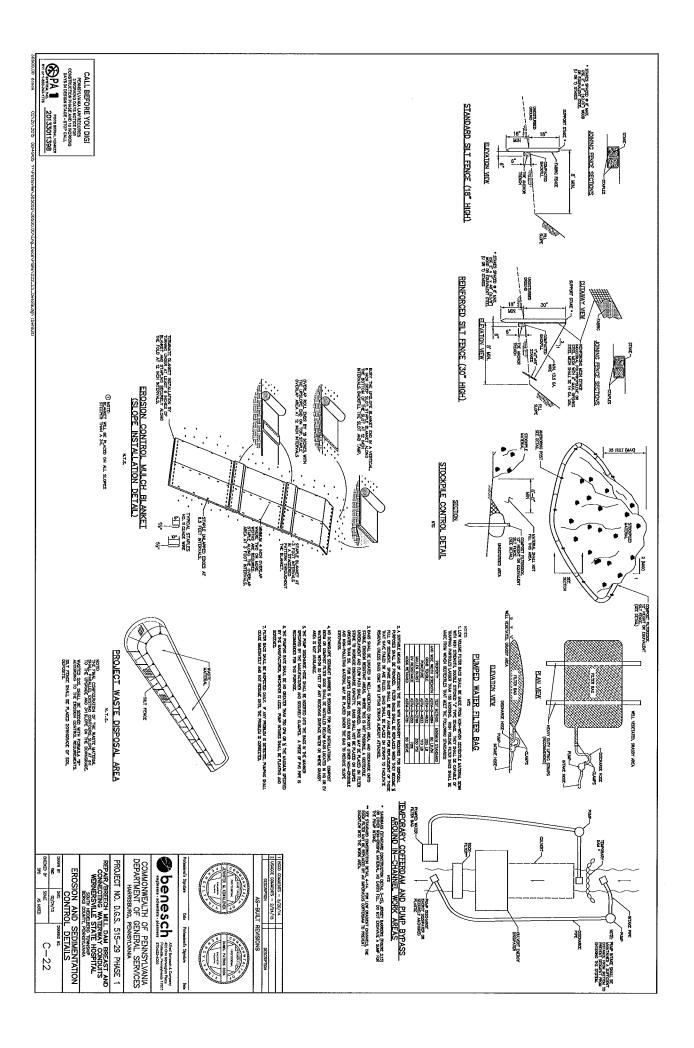
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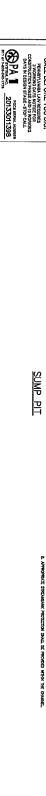
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA

PROJECT NO. D.G.S. 515-29 PHASE 1

REPAIR, PÉREECH MILL DAM BREAST AND
CONNECTION WITTENAY CONDUITS
WERNENS MILL STATE HOSPITAL
BERGE CHAPTE, PÉNETUNAS.
EROSION AND SEDIMENTATION
CONTROL NOTES
DOME 10. L. DOMES 10.

DATE 02/24/15 SCALE AS NOTED C-21





CALL BEFORE YOU DIG!

PENISYLVAMA LAW REQUIRES

A WORKING DAYS NOTICE FOR

CONSTRUCTION PALASE AND 19 WORKING

DAYS IN DESIGN STAGE-STOP CALL

| | S.O. DS/M. (MINOS/CM) MAXMUM | NCONTRATION |
|----------------|------------------------------------|-------------|
| | 30% - SOX PASS THROUGH 3/8" SCROON | 822 |
| | 30X - 80X | CALLAC. |
| OR DAY DIDE | 5.5 - 8.5 | |
| dro del addes | PEROUS AND ELEMENTED | ORTION |
| 10° TO 24° DIA | 23X - 100X (DRY WEIGHT BASKS) | X CONTONT |
| | TANDAROS | COMPOST |
| | | |

122

SIDE SLOPE OPTIONAL

3. TROUGH PLUES SWILL BE METHLED WITHIN THE TROUGH AN BOTH SEED OF THE STEPLE MONARD, (SHAMBAND ORGANIZATION FIELD, FIN-1).

4. MICH PLUTH MAJOR SEEDMENT THAN PROPERTY SHALL BE PRINCED TO A PRINCED TO MAY RECEIVED THE MAJOR SEEDMENT THAN PROPERTY TO DESCRIBE HER METH MAY RECEIVED SERVICE WHITE. 2. BYPACS PILLP INTACT SHALL BE MANTAND A SUFFICION DISTANCE TROU THE BOTTOM DATIONALS.

. HAZHROOUS OR PRILITIANT WITERIAL STORAGE AREAS SHULL BE LOCATED AT LEAST TOO FIET BACK FROM THE TOP OF STREAMBANK. Shear crossing wery autising same be inhermately kenoned from the shear crossing wery.

ALL DISTURBED AREAS WINEA SO FEET OF TOP-OF-BANK SAUL BE BLANGETED OR MANTED WITHIN 24 KOURS OF HITHAL DISTURBANCE FOR MADE STREAMS OR 48 HOURS OF HITHAL DISTURBANCE FOR MADES STREAMS UNLESS OTHERWISE AUTHORIZED.

WORK AREA WATER LEVEL

JUSHTO JEST STONE

| STRINGS | 2 | MOIS | | 8 | 1 DRAWORD | | THE PHYSICAL PARA | ACCURATE SALES | COMPOST SHOULD BE |
|----------------------------|------------------------------------|--------------|-----------|-----------------------|-----------------------------|-----------|---|---|---|
| SOUTHER ZAFT CONCENTRATION | ARTICLE SIZE | TURE CONTENT | 2 | REMUIE PORTION | HATTER CONTENT | SOURCE | WEIDIS OF THE COMPOST SHE STANDARDS CONTANED IN THE | MET PRE CAS IT DRY WATER THE FREE CAS BEFROOT MENT OF THE MIX. | A WELL DECOMPOSED, WEED NAME OF WOOD, BANKEY COMPOSED, THE COMP |
| SO DS/M (MXHOS/CM) MAXMUM | 30% - SOX PASS THROUGH 3/8" SCREDN | 30x - 50x | 3.5 - 8.5 | FIBROUS AND ELEMENTED | 25X - 100X (DRY WOOM BASIS) | STANDAROS | T SHOULD COURLY WITH THE STANDARDS AS SHOWN IN THE 1 THE PENNIOT PUBLICATION 408 ARE AN ACCOPTABLE | AL PROM WHICH IT WAS DESIRED. WOOD AND BANK ESSED WOOD PRODUCTS ARE NOT ACCEPTABLE AS | FREE ORGANIC MATTER DERVED FROM AGRICULTURE, NA CREMIC MATTER SOURCES. THE COMPOST ACT SHOULD POSSESS NO COMECTIONAME COORS AND |
| | | 9 | 2 | 81 | 13 | | ŀ | | |

PUMP INTAKE HOSE

PHESE CONTANADOT NETTING

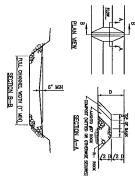
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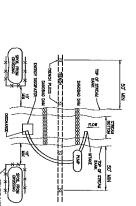
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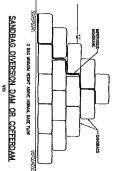
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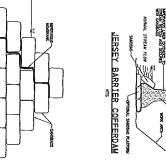
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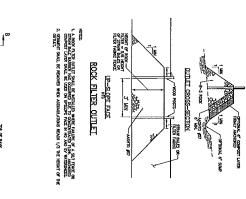
| ROCK FILTER | FULL CHANNEL WOTH (1" MIN) | 6° M3H | |
|-------------|----------------------------|--------|--|
| | S | | |











BLOWN / PLACED FETER MEDIA

COMPOST PILITER SOCK

SANDBAG TO HOLD SUPERVIOUS-

SECTION VIEW

VALVA CERTAINS

COMMUNICATIONS CONTINUES CONTINUES AND AN PARTICULAR CONTINUES CON

COMPOST FILTER SOCK

PLAN VIEW

PLACED TO D.C.

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BIODERHAMME FILTER SOOKS SMILL BE REPLACED AFTER 8 WHITES, PHOTEOGRAPHMEE SOOKS AFTER 1 TEAR, POLYRROPHIDME SOOKS SMILL BE REPLACED ACCORDANG TO WARRACHIREDY'S RECOMMENDATIONS.

soots shall be nopeltod wedray and arter each rannof eacht. Dawasso soots shall be Repared, according to havefacturen's openications of replace within 24 house of Nopelton.

I MON STANDIATION OF THE AREA THROUTHAY TO THE SOOK, STANDS SHILL BE RELIGIOD. THE SOOK HAY BELLITT IN RAIGE AND GEOCKIEDS ON REMONDS. IN THE LATTER CASE, THE WEST SMILL BE OF OPEN AND THE MICHES SPIRALA SA, A SOIL, EMPALADOR.

SINC FARRIC LANGUA SACCALON OF COLLABOL. NETAL DILL.

SINC HORE. O M. HORE MITTENDEL NETAL DILL.

SINC HORE. NAMINI SACCALON OF COLLABOL.

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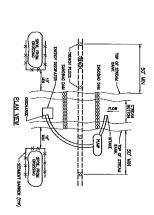
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| COMMONWEALTH OF PENNSYLVA | Alfred Barresch & Co 400 One Noneoptici Pottudile, Pennayhea 570-622-4005 |

PROJECT NO. D.G.S. 515-29 PHASE 1

REPAIR / BREZEY AND CONNECTING WITE TRANS CONSULTS WETERACK CONSULTS WETERACK STATE HOSPITAL SOLD SECONDARY CONSULTS SOLD SECONDARY CONSULTS SOLD SECONDARY CONSULTS CONTROL DETAILS

DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENISYLVANIA

Sompany n Pleza sesja 17801

UTILITY LINE STREAM CROSSING WITH PUMP BYPASS

GROBERO SALL NOT TACE PLACE WITCH SO FEET OF TOP-OF-BLAK UNTIL ALL MATERIALS REQUIRED TO COMPLETE CROSSING ARE ON SITE AND PIPE IS REJULY FOR INSTALLATION.

| Professional's Signature | Professional's Signature Date |
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| REVISIONS | AS-BUILT REVISIONS |
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2. LICHARDA PRICE ORGANIZATION CHRACK POTIONAL CALVOTT PRE IS 1933. AND PRICES OF CHRACK SPECIAL PRICES AND CHRACK SPECIAL PRICES AND CHRACK SPECIAL PRICES. SAN CHRACK SPECIAL PRICES.

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RELIANT TOPSOIL PRICE TO INSTALLATION OF ROCK CONSTRUCTION DITRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE. NOUNTABLE BODY 1000 TO PROVIDE PROPER COMES FORE FORE ROCK. CONSTRUCTION ENTRANCE.
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