| | Public No | tice |
|--|--|------------------------------|
| US Army Corps of Engineers Philadelphia District | Public Notice No. CENAP-OP-R-2012-0800-45 | Date March 23, 2017 |
| Wanamaker Building 100 Penn Square East | Application No. 2012-0800-45 | File No. 2012-0800-45 |
| Philadelphia, PA 19107-3390 ATTN: CENAP-OP-R | 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 Turnpike Commission 700 South Eisenhower Boulevard Middletown, PA 17057
- AGENT: A.D. Marble 2200 Renaissance Boulevard Suite 260 King of Prussia, PA 19406

WATERWAY: East Branch of the Perkiomen Creek and Unnamed Tributaries, Indian Creek and Unnamed Tributaries, Unnamed Tributaries to the Skippack Creek, and Unnamed Tributaries to Ridge Valley Creek.

LOCATION: The project is located along 6.8 miles of the Northeast Extension of the Pennsylvania Turnpike, Interstate 476 (**I-476**), from milepost **A31.3** (just south of Fretz Road) to **A38.1** (just north of Clump Road), in Lower Salford, Salford, and Franconia Townships, Montgomery County, Pennsylvania. From 40.272962°N Lat. and -75.358451°W Long., **To** 40.343027°N Lat. and -75.387813 °W Long.

ACTIVITY: The applicant, The Pennsylvania Turnpike Commission (PTC) is proposing a total roadway reconstruction and widening of the Northeast Extension of the Pennsylvania Turnpike (**I-476**) from four to six travel lanes, from Milepost A31.3 to Milepost A38.1, in Lower Salford, Franconia, and Salford Townships, Montgomery County, Pennsylvania, as indicated on the attached plans **E-1 to E-10**. In general, the overall project consists of widening the existing roadway, shoulders, and medians including the full depth reconstruction of the existing roadway, widening mainline bridges, and the replacement of overhead bridges, drainage, stormwater management, and side road adjustments.

As stated above, the PTC proposes to widen **I-476** from four to six travel lanes. Specifically, the proposed work would involve mechanized land clearing operations of filling, grading, excavating, and vegetation clearing for; the extension of **16** existing roadway culverts, bridges, or pipes that would include the construction of new wing walls, the full replacement of **6** existing roadway culverts, the placement of rip-rap scour protection associated with the newly constructed culvert, bridge, or pipe extensions, cut and fill operations associated with side slope construction for roadway widening, the installation of stormwater management facilities, the construction of stormwater outfall structures and associated rip-rap, the permanent relocation of **9** streams and/or waterways, the construction of temporary access roads, and the installation of temporary cofferdams and by-pass pumps associated with dewatering activities. The above stated work is shown on the attached plans **E-11 to E-36 (two sided)**. Project impacts within aquatic resources (Streams and Wetlands) associated with the above mentioned work are described below.

Of the 39 streams/waterways located within the proposed project design area, 26 would be impacted due to project implementation. Approximately 8,148 linear feet and/or 1.13 acre of stream channel, below the Ordinary High Water Mark would be permanently impacted by the roadway reconstruction and widening activities. In addition, the proposed project would temporarily impact approximately 3,510 linear feet and/or 0.65 acre of stream channel, below the Ordinary High Water Mark. The PTC has indicated that all temporary stream/waterway impacts (fills, structures, etc.) would be removed and then restored (grades, contours, vegetation) to pre-construction conditions upon completion of the work. As stated above, the proposed project would impact a total of **8,148 linear feet** of stream channel. Of the total stream channel impact, 4,213 linear feet is associated with nine stream relocations, while 793 linear feet is associated with stream channel Loss that would require compensation for the unavoidable adverse impacts/affects to aquatic resources. To avoid and minimize adverse impacts/affects within streams and/or waterways, the PTC proposes to relocate 9 stream channels within the project design area. As shown on plans E-37 to E-39, the largest of the relocations occur within streams S-12 and S-13. Approximately 2,219 linear feet of stream channel would be created using natural stream channel design. The total of all stream channels relocated and/or created would be 4,383 linear feet. As mentioned above, the reconstruction and widening of I-476 would also impact Wetland resources within the project design area.

The PTC has identified Palustrine Open Water (POW), and Palustrine Emergent (PEM), Scrub-Shrub (PSS), and Forested (PFO) wetlands within the 6.8 miles of **I-476** from milepost A31.3 to A38.1. Of the **35** wetlands located within the proposed project design area, **16** would be impacted due to project implementation. The proposed project would **permanently** impact and/or fill approximately **1.08 acre of PEM**, **0.0008 acre of PSS**, **and 0.12 acre of PFO wetlands**, for a total of **1.20 acre** due to roadway reconstruction and widening activities. In addition, the proposed project would **temporarily** impact and/or fill approximately **0.26 acre** of **PEM** wetlands. The PTC has indicated that **all** temporary wetland impacts (fills, structures, etc.) would be removed and then restored (grades, contours, vegetation) to pre-construction conditions upon completion of the work. Furthermore, based on the information provided within the PTC's application, **indirect or secondary impacts** to aquatic resources are not anticipated as a result of project implementation. The PTC is providing Compensatory Mitigation for all unavoidable adverse impacts/affects, and/or the **loss** of aquatic resources associated with the I-476 roadway reconstruction and widening activities. A description of the proposed Compensatory Mitigation is provided below.

PURPOSE: The purpose of the project, as stated by the applicant, is to update the existing Northeast Extension, I-476 to meet current Department of Transportation and Federal Highway Administration standards to address current safety and traffic issues.

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 **30** days to the District Engineer, U.S. Army Corps of Engineers (USACE), Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

The National Historic Preservation Act requires Federal agencies to identify and address potential affects to historic properties or archaeological resources. The PTC has completed historic resource surveys along the entire 6.8 miles of the **I-476** corridor from milepost A31.3 to A38.1 and/or within the proposed project design area. The surveys have identified historic properties within the U.S. Army Corps of Engineers, Philadelphia District's permit area, in accordance with 33 CFR Part 325, Appendix C. At this time, further review and consultation is required in order for the USACE to meet its obligations under **Section 106 of the National Historic Preservation Act.**

Based on a review of the application, the PTC proposes to **avoid and minimize** impacts within streams/waterways and wetlands, and/or aquatic resources, to the maximum extent practicable, by designing the project to completely avoid aquatic resources, installing retaining walls, using steeper fill slopes (1.5 to 1), providing stream relocations to avoid piping/enclosing existing stream channels, depressing rip-rap to matching existing stream elevations, using open bottom culvert extensions, using protective fencing around wetlands, installing and working off of temporary timber matting within wetlands, including bio-retention and infiltration features for stormwater management facilities, and by using best management practices (BMP's). For all unavoidable Adverse Impacts/Affects, and/or **Loss** of aquatic resources (wetlands and streams), the PTC proposes the following Compensatory Mitigation described below.

To compensate for the unavoidable adverse impacts/affects, and/or the Loss of 1.20 acre of Palustrine wetlands and 793 linear feet of Riverine stream channel, the PTC has offered two candidate sites, as shown on plan E-40. The proposed Wetland compensation site is identified as parcel number 34-000-01393-00-4, known as the Davidheiser Property, located at 443 Creamery Road, in Telford, Pennsylvania, while the proposed Stream compensation site is identified as parcel number 34-00-02953-50-5, known as the Delp property, located at 715 Keller Creamery Road, in Telford, Pennsylvania. The proposed wetland compensation site is located along the East Branch of the Perkiomen Creek. Through the site selection process, the PTC has confirmed that the wetland compensation site was once part of the existing wetlands adjacent to the East Branch of the Perkiomen Creek. Wetlands on the site were historically filled to create pasture land. The PTC is required to provide approximately 1.32 acre of PEM (1.08 acre), PSS (0.0012 acre), and PFO (0.24 acre) wetland as compensation for project impacts. The PTC proposes to remove the historic fill material and Re-establish approximately 2.03 acre of wetland within the proposed wetland boundary, as shown on **plans E-41 to E-57**. The available acreage at the proposed compensation site provides an excess above the 1.32 acre required for wetland mitigation. During the construction of the wetland compensation site, 0.21 acre of wetlands would be impacted, but incorporated as part of the overall 2.03 acre compensation site. The proposed Stream Compensation site is located within Indian Creek, a perennial tributary to the East Branch of the Perkiomen Creek. The PTC propose to remove the existing Dam and Enhance and Rehabilitate 475 to 500 linear feet of the stream channel/Indian Creek immediately up-stream, as shown on plans E-58 to E-60. The proposed dam removal would provide for the shift from a reservoir to a free flowing stream channel that would improve water quality, restore historic fish passage, and allow other organisms, that have been absent due to poor water quality, to repopulate the stream channel.

At this time, the proposed compensation stated above is a **Conceptual proposal**. As an evaluation of this application continues, additional information may become available which could modify this Compensation Proposal.

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 Mr. Bryan P. Bellacima at (215) 656-6732, via email at bryan.p.bellacima@usace.army.mil, or writing this office at the above address.

Edward E. Bonner Chief, Regulatory Branch



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OCTOBER 2, 2015

PREPARED BY: A.D. MARBLE & COMPANY, INC. 375 EAST ELM STREET, SUITE 101 CONSHOHOCKEN, PA 19428

PREPARED FOR: THE PENNSYLVANIA TURNPIKE COMMISSION

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REVISIONS

DATE APPR. SCALE: AS INDICATED

DISTRICT: S COUNTY: MONTGOMERY TOWNSHIP / BOROUGH: FRANCONIA TOWNSHIP

A-031.007001-3-07 NETWORK NUMBER: 700363 FILE NAME: WM03.400 DRAWING TYPE: IV STRUCTURE NUMBER:

> ROADWAY AND BRIDGE RECONSTRUCTION FRR80 III MERRYSSA 3433410044377539

WETLAND MITIGATION PLAN MP ASS.7 - MP ASS.8 PLANTING AND HABITAT ENCHANCEMENT DETAILS

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10/2/2015 ***Projects#1283%CABO#1cm44-031.001001-2*CAD0 Files#08 Londscoping#02 Datalis _-,**Vis-det01.dgm

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| JTEM * | QUANTITY | KEY | COMMON NAME | SCIENTIFIC NAME | PLANT SIZE | CONTAINER SIZE # | DENSITY |
| 0808-3467 | 10 | Å | SERVICEBERRY | AMELANCHIER CANADENSIS | 1" CAL. , B&B | : | 15' 0. C. |
| 0808-3130 | 10 | BZ | RIVER BIRCH | BETULA NIGRA | 1 1/4" CAL B&B | 1 | 15' 0. C. |
| 0808-3240 | 12 | ٢s | SWEETGUM | L I QUI DAMBAR STYRAC I FLUA | 1 1/4" CAL | ; | 15' 0. C. |
| 4B08-XXXX | 01 | NR | AMERICAN ELM | ULMUS RUBRUM | 1 1/2" CAL. , B&B | : | 15' D.C. |
| 0808-XXXX | 20 | SN | BLACK GUM | NYSSA SYLVATICA | 1" CAL., B&B | ; | 15' 0. C. |
| 0808-3271 | 9 | PO | AMERICAN SYCAMORE | PLATANUS OCCIDENTALIS | 1" CAL., 8&8 | - | 15' 0. C. |
| 0808-3321 | 01 | ßВ | SWAMP WHITE DAK | QUERCUS BICOLOR | 1 1/2" CAL., B&B | - | 15' 0.C. |
| 0808-3330 | 12 | ę | PIN DAK | QUERCUS PALUSTRIS | 1" CAL., B&B | : | 15° 0.C. |
| 0808-7122 | 65 | сo | BUTTONBUSH | CEPHALANTHUS OCCIDENTALIS | 18-24" HT | 3 | 3-4' 0.C. |
| 4808-XXXX | 70 | CA | SILKY DOGWOOD | CORNUS AMOMUM | 18-24" HT CONT. | 3 | 3-4' 0.C. |
| 0808-4786 | 70 | LB | COMMON SPICEBUSH | LINDERA BENZOIN | 18-24" HT | 3 | 3-4' 0.C. |
| 0808-3961 | 65 | AA | RED CHOKEBERRY | ARONIA ARBUTIFOLIA | 18-24 HT. | 3 | 3-4' 0.C. |
| 0808-7112 | 70 | sc | ELDERBERRY | SAMBUCUS CANADENSIS | 24" HT. , CONT. | -1 | 3-4' 0.C. |
| 0808-4202 | 65 | 2 | COMMON WINTERBERRY | ILEX VERTICILLATA | 24 HT B&A | : | 7-11 0 0 |

| 28 LBS. PER 15 LBS. PER 20 LBS. PER 37 ACRE ACRE< | PLANTING DATES: PLANTING DATES: | PARICUM VIRGATUM SWITCHGRASS LIMPROVED VARIETYI 10Z Z.800 ANDROPOGON SCOPARIUS LITTLE BLUESTEN (IMPROVED VARIETY) 6Z 1.700 | ECHINACEA PURPUREA PURPLE CONEFLOWER 77 2.000 N | COREOPSIS TINCTORIA PLAINS COREOPSIS 7% 2.000 | HELIOPSIS HELIANTHOIDES OX EYE SUNFLOWER 72 2.000 B A | BUDGERK IN HIRT IN THE INCLUSION STRAN TZ 2.000 . 20 | SOBGLASTRIM NITANS INDIANGRASS 72 2.000 P | | DI UM PERENNE PERRENIAI RYEGRASS 102 2.800 | ANDROPOGON CERARDII BIC BLUESTEM, IMPROVED VARIETY) 312 8.500 | SEEDING - TALL NATIVE GRASS MIXTURE (ITEM NO. 2804-XXXX) | EUTHAMIA GRAMINIFOLIA GRASS LEAVED GOLDENROD [2%] 0.300] | ASCLEPIAS INCARNATA SWAMP MILKWEED 22 0.300 | VERNONIA NUVEBORACENSIS NY INONWEED ZZ 0.300 | | SZ 0. 750 5 | SCIRPUS CYPERINUS WOOLGRASS TZ 1.050 B 4 | SCIRPUS ATROVIRENS GREEN BULRUSH 7% 1.050 58 | JUNCUS EFFUSUS SOFT RUSH 102 1.500 4 | CAREX LURIDA LURID/SHALLOW SEDCE 102 1.500 E | ELYMUS VIRGINICUS VIRGINIA WILD RYE 20% 3.000 | CAREX VULPINOIDEA FOX SEDGE 252 3.750 | SEED-CUSTOM WETLAND MIXTURE FACW (ITEM NO. 4804-XXXX) | SOLIDAGO PATULA ROUGHLEAF GOLDENROD 0.5% 0.100 | LUDWIGIA ALTERNIFOLIA SEEDBOX 0.5% 0.100 | BIDENS CERNUA NODDING BUR MARICOLD 0.5% 0.100 | IRIS VERSICOLOR BLUE FLAG 0.5% 0.100 | ALISMA SUBCORDATUM WATER PLANTAIN 0.5% 0.100 | EUPATORIUM FISTULOSUM JOE PYE WEED 0.5% 0.100 | EUPATORIUM PERFOLIATUM BONESET 0.5% 0.100 | PENTHORUM SEDDIDES DITCH STONECROP 0.5% 0.100 | | DEMOCIES CENCIBILIES CENCITIVE EEDE 12 0.200 0 | MIMULUS RINGENS SQUARE STEMMED MONKEYFLOWER 12 0.200 | ASCLEPIAS INCARNATA SWAMP MILKWEED 12 0.200 22 | CAREX CRINITA FRINGED SEDCE 1% 0.200 , 世 | SPARGANIUM AMERICANUM EASTERN BUR REED 2% 0.400 H | GLYCERIA CANADENSIS RATTLESNAKE GRASS 22 0.400 a | JUNCUS EFFUSUS SOFT RUSH 3X 0.600 | VERBENA HASTATA BLUE VERVAIN 4% 0.800 | SPARCANIUM EURYCARPUM GIANT BUR REED 4Z 0.800 | CAREX SCOPARIA BLUNT BROOM SEDGE 6% 1.200 | CAREX LUPULINA HOP SEDGE 7% 1.400 | SCIRPUS ATROVIRENS GREEN BULRUSH 7% 1,400 | CAREX LURIDA LURID/SHALLOW SEDGE 20% 4.000 | CAREX VULPINGIDEA FOX SEDGE 35% 7.000 | SEED-CUSTOM WETLAND MIXTURE OBL (ITEM NO. 4804-XXXX) | SCIENTIFIC NAME COMMON NAME Z WEIGHT LOS. RATE |
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| WETLAND MITIGATION PLAN MP A35.7 - MP A35.8 EROSION AND SEDMENT POLLUTION CONTROL CONSTRUCTION SEQUENCE | Ad31.00 TOURS NO. NETWORK KUMBER: 703983 RELEVANE: V DRAWING TYPE: IV STRUCTURE NUMBER: V | PREPARED BY: AD. MURREL & COMPANY, INC. 375 EAST ELAN STREET, SUITE 131 CONSHOHOCKEN, PA 19428 PREPARED FOR THE PENNISY VANIA |
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| | | 08EFR 7, 2015 |
| | | 20. UPON COMPETING OF ALL EARTH DISTURBANCE ACTIVITES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS. THE CONTACTOR SHALL CONTACT THE MONTCOMMERT COMMYE CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO THE REMOVAL/CONVERSION OF THE ERS BMPS |
| | | 19. ORE GRADING AND SEEDING IS COMPLETE. AN AS-BUILT SURVEY MUST BE PERFORMED AND APPROVED BY TH REPRESENTATIVE AND THE USACE. COORDINATION WITH THE USACE SHALL BE AT THE DIRECTION OF THE PTC. |
| | | 16. SEED ALL AREAS WITH SEED-CLUSTOM WETLAND MIXTURE OBL, SEED-CLUSTOM WETLAND MIXTURE FACW OR SEEDING AND SOIL SUPPLEMENTS - TALL NATIVE GRASS MIXTURE IN ACCORDANCE WITH THE SEEDING PLANS. TOP SEEDING WITH A MULCH LAYER OF STRAW AT 3 TOMS/ACRE TO PREVENT EROSION. |
| | | 17. REMVE WELLAND WOOD WAITING AFTER PROPOSED WELLAND IS GRADED. SEED HERE AREAS WITH TEMPORARY OR PERMANENT SEED MIXTURES AND TOP SEED WITH A MULCH LAYER OF STRAW AT 3 TONS/ACRE TO PREVENT EROSION. |
| | | 16. THE CONSTRUCTION OF THE SEEPAGE BERN WILL OCCUR AFTER THE SEDIMENT TRAP IS REMOVED. REFER TO THE ROADWAY EKS PLANS FOR SEDIMENT TRAP INSTALLATION. |
| | | 15. GADING WILL INCLUDE DUGE-KKLAWATING TO A DEPHN OF 12. INCRES BELOW THE PROPOSED 248 CONTOUR WITHIN THE PROPOSED METANO AREA LSEE REPORTED CONDITIONS FLAW, PLACE I2. INCRES OF UNCOMPACTED LEAF COMPOSED WITHING CONTOUR WITHIN THE PROPOSED METANO AREA. COMBINATION WITH THE FOR DEED AN ALL PE REQUIRED TO BETEMAN IF UNCOMPACTED LEAF COMPOSITION WITH FE SAUDREED IN ANY ADDITIONAL AREAS WITHIN THE PROPOSED METANO AREA. COMDING WILL INCLUDE OF THE FORMAL TO A DEPHN OF 6. BELOW THE PROPOSED METANO AREA. COMDIST AND AT A DITIONAL AREAS WITHIN THE PROPOSED METANO AREA. COMDING WILL INCLUDE OF THE FORMATION ADDING FOR ONE FEMALE IF UNCOMPACTED LEAF COMPOSITION WITH FE SAUDREED IN ANY ADDITIONAL AREAS WITHIN THE PROPOSED METANO AREA. COMDING WILL INCLUDE OF THE FORMATION ADDING FOR A DITIONAL AND AREA. CONDING WILL INCLUDE OF THE FORMATION ADDITIONAL ADDITIONAL AND AREA. CONDING WILL INCLUDE OF THE FORMATION AND ADDITIONAL ADDITIONAL AND AREA. CONDING WILL INCLUDE OF THE FORMATION ADDITIONAL ADD |
| | | 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS TOPSOIL AND OTHER MATERIAL FROM THE SITE ONCE FINAL GRADING IS COMPLETE. |
| | | 13. EXXIAITE AND GRADE THE PROPOSED WEILAND ACCORDING TO GRADING PLANS, LOR GRADU PRESSARE (LCP) EQUIDENT WITH A PAILOR EFICEW AS BEILAND 5.2 PSI, MAST 3E USED WITHIN THE WEILAND LIMITS. PUMEDD FILTER BASS ARE TO ELUSED TO DERATER SITE SITE THE CONTRACTOR IS RESOUNCEDE EFOR DETERMINUMS THE APPOPRIATE NUMEER OF PUMES/RAACT TO BE USED TO DEWATER SITE. ADDITIONAL PUMPS TO BE ADDED AS WEEDED. |
| | | 12. CLEAR TREES AND SHRUBS WITHIN THE LIMITS OF DISTURBANCE. |
| | | 11. SALVAGE THREE TREES FOR ROOTWAD INSTALLATION. |
| | | 10. INSTALL WEILAND WOOD MATS OVER TEMPORARY WEILAND IMPACTS TO AVOID RUITING AS IMDICATED ON THE CONSTRUCTION DETAILS. |
| | | 9. INSTALL PROTECTIVE FENCE AROUND EXISTING WETLANDS AS SHOWN ON THE PLANS. |
| | | CURSTRUCT TWO TOUCTION ENTRANCE AT LUCATION INDICATED ON PLANS. INSTALL 12" COMPOST FILTER SOCK AT LOCATIONS INDICATED ON PLANS. |
| | | 6. FLAG LIMIT-OF-DISTURBANCE. |
| | | 5. ACCESS TO THE WETLAND SITE WILL BE FROM CREAMERY HOAD (SR 1018). |
| | 24. JEAN COMPETION OF ALL EARCH DISTURMANCE ACTIVITIES, INSTALLATION OF ALL PERMANENT ECCM BMPS, AND PERMANENT STABILIZATION OF ALL DISTURGED AREAS, THE OMERY AND/OR OFFENDE STABILIZATION, FE MONTOOMERY COUNTY CONSERVATION DISTRICT FOR A FINAL INSPECTION. | AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITES SHAL NOTIFY THE FEMSTLYNIA DAVE CALL SYSTEM INCORPORATED AT 1-00-222-1716 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION AND MAINTEMANCE OF ALL EROSION AND SEDIMENT POLLUTION CONTROLS AND RELATED ITEMS INCLUDED |
| | AFIER THE SEDURENT TRAP IS REMOVED. CONSTRUCT THE PROJECT SEPACE BEAM. INSTALL THE EBOSICM CONTROL MULCH MATTING, SEED WITH JALL MATIVE CRASS MIXTURE, AND PLANT WITH SHRUBS. REMOVE THE ROCK CONSTRUCTION ENTRANCE AND SIJBILIZE ACCESS | AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEANING AND GRUBBING, THE CONTRACTOR SMALL INVITE THE EESS FLAW PREPAREN. AL SUB-CONTRACTORS, A REPRESENTATIVE FROM THE FEMISYTY IDMRVIE COMMISSION AND A REPRESENTATIVE OF THE MONICOMERY COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. |
| | 21. LAGE CONSTRUCTIONE CONTLEV 21. LAGE CONSTRUCTIONE COLONGEN MALE PLANTING. ALL WORK SALL BE CONSTRUCTIONE COLONG PRESSURE EQUIPMENT TO THE MAXIMUM EXTERT POSSIBLE. WORK WITHIN THE WELLAND TAKAS ASAL BE DODRE EQUIPMENT TO THE MAXIMUM EXTERT POSSIBLE. WORK WITHIN THE WELLAND TAKAS ASAL BE DODRE EVENTS AND AT THE ORECOUND OF MAREPRESANTATIVE. | ALL EARLY DAVINGUARCE ACTIVITIES SMALL PROCEED IN ACCOMBACE ATTIVITIES CALLOWING SEDERAGE EARLY STATE SMALL EO COMPLETED NOM MAEDIATENT STABILIZED BEFORE ANN FOLLOWING STACE IS INITIATED. CLEARING, COMBING AND TOPSOIL STAPPING SMALL BE LINIED TO ONLY TOOSE AREAS DESCRIBED IN ACTIVITIES. ANY DEVIATION FROM THE CONSERVATION DISTRICT. |

| | ES SHALLOW EYCKVATTONG AMDSCADING | VERY LIMITED SOMEWHAT LIMITED | VERY LIMITED SOMEWHAT LIMITED | CITION BIS - MIL CHING CONSTRUCTION CONSTRUC | WETLAND MITIGATION PLAN METLAND MITIGATION PLAN MENT POLLUTION CONTROL SEEDING NOTES SEEDING NOTES | |
|-----------------------------|--|-------------------------------|--|--|--|--|
| IG PROPERTIES (LIMITATIONS) | LIMITATION BY USE EMBANKNENT LOCAL ROADS | SOMEWHAT LIMITED VERY LIMITED | VERY LIMITED VERY LIMITED | CLASS Construction and the first specific field in the first specifield in the first specific field | ROADWAY AND BRIDGE RECONSTRUCTION FROM MINIERCOSKAGON TOWATESS | DISTRICT: 5 COUNTY: MONTGOMERY TOWNSHIP / BOROUGH: FRANCONIA TOWNSHIP |
| SOILS ENGINEERING | HYDRIC DEPTH TO SOIL WATER TABLE TOP SOIL | N >80* FAIR | N 6" TO 31" FAIR | SECTION 804 - SEEDING CONSTRUCTS AND STATE Development of the second state of the second state of the second state of the second state state of the second st | WBS NO. A-031 JOTT001-3-07 CORK NUMBER: 7007001-3-07 CORK NUMBER: 7002 dgn WME TPER: 7007 dgn WME TPER: FIX | E: AS INDICATED |
| | SOIL TYPE | 4 SILT LOAM, WELL DRAINED | TAN SILT LOAM. MODERATELY < SLOPES, RGA | LS LS LS LS LS LS LS LS LS LS | NETV NETV REC | IONS DATE APPR. SCAL |
| | MODERATE FILTIT | PENN 8-157 | RARIT 0-32 | STARDLLIZATION. SPECIFICATION J. VUPAN FEMPONS SPECIFICATION J. PUPAN FEMPONS SPECIFICATION J. PUPAN FEMPONS SPECIFICATION S. PERSON PARAMENT SPECIFICATION S. PUBBAKES ACTIVITY SPECIFICATION<!--</td--><td>TURN-</td><td>NO. REVISI</td> | TURN- | NO. REVISI |
| SOILS LEGEND | 82 TO 152 20" - 40" | | | <pre>Creat Super S</pre> | PREPARED BY: A.C. MALS.TPET, SUITE 101 755 EAST ELIA.STPET, SUITE 101 CONSHOHOCKEN, PA 19428 PREPARED FOR: | THE PENNSYLVANIA TURNPIKE COMMISSION |
| | Poc PENN SILT LOAM | | SOLL TYPE DESCRIPTIONS | Another and the second state of the second sta | | 0-24+1X |

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OCTOBER 2, 2015 UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VECETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUMOFE EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER% S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES I/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEMHERE IN THE PLAN. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENGO OF THE BARRIER SHALL BE EXTENDED AT LEAST 0 FEET UP SLOPE AT AS DEGREES TO THE MAIN BARRIER ALIGNMET. MAXIMUM SLOPE LENGTH ABOVE ATV BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA. MOTES 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. B BIOBERADABLE CONDEST FILTER SOCKS SHALL GE REPLACED AFTER 6 MONTHS: PHOTOBERBADALE SOCKS AFTER 1 YEAR, POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURERY'S RECOMMENDATIONS. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. COMPOST/ FILTER SDCK COMPOST FILTER SOCK BLOWN/PLACED FILTER MEDIA DISTURBED AREA COMPOST FILTER SOCK DISTURBED AREA PLAN VIEW UNDISTURBED AREA aiw ZI SECTION UNDISTURBED AREA PREPARED FOR: THE PENNSYLVANIA TURNPIKE COMMISSION 10, 101 自 A.D. MARBLE & COMPANY, INC. 375 EAST ELM STREET, SUITE 101 CONSHOHOCKEN, PA 19428 2 IN. X 2 IN. WOODEN STAKES PLACED 10 FT ON CENTER E WOODEN STAKES PLACED 10 FT ON CENTER ß ٩ CONTOURS TURN-ULTRAVIOLET STABILITY Z ORIGINAL STRENGTH LASTM G-155) MATERIAL TYPE MINIMUM FUNCTIONAL LONGEVITY MESH OPENING SOCK DIAMETERS MATERIAL STRENGTH FABRICS INNER OUTER FILTRATION MESH CONTAINMENT NETTING COMPOSED OF BURLAP MAY BE PHOTO-DEGRADABLE 3 m1 HDPE ORGANIC MATTER CONTENT 6 MONTHS 23% AT 1000 HR. 3/8 " 18. 18. TABLE 4.1 COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS 24" 224" 5 mil HOPE 5 mil HOPE 9 MONTHS 23% AT 1000 HR. 26 PSI 3/8" TABLE 4.2 COMPOST STANDARDS TWO-PLY PHOTO-DEGRADABLE COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEEGE WOVEN LAYER AND NON-WOVEN FLEEGE 3/16" MAX. APERTURE SIZE USED ON PROJECTS LASTING 6 MONTHS OR LESS. BOX - 100% (DRY WEIGHT BASIS) FIBROUS AND ELONGATED 6 MONTHS 26 PSI SYSTEMS 3/8 " 18 ± 12 ± 24 = ± 24 = ± HDPE BIAXIAL NET CONTINUOUSLY WOUND FUSION-WELDED JUNCTURES 1/4° X 3/4° MAX. APERTURE SI PHOTO-DEGRADABLE 12" 18" 24" 32" MULTI-FILAMENT POLYPROPYLENE IMFPP) SCALE: AS INDICATED 1 YEAR 44 PSI 1002 AT 1000 HR. 3/8* A-031.00T001-3-07 KNUMBER: 7003863 E: WM_ESdl02.dgn HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP) PHOTO-DEGRADABLE 12" 18" 24" 32" 2 YEARS 100% AT 1000 HR. 202 PSI SIZE 1/8" ROADWAY AND BRIDGE RECONSTRUCTION FROM MILEPOST A31.34 TO A37.39 277774 Jan 1997 Jan 199 NOTES: GEOTEXTILE CLASS 4 TYPE A SHALL BE USED UNDER MITS. ITEM INCLUDES FURMISHING, INSTALLING, MAINTAINING AND REMOVAL OF WOOD MATS. LOCATIONS OF MATTING SHOW ON PLANS. ALL WOOD MEMBERS WETLAND CROSSING WOOD MATTING COUNTY: MONTGOMER _3/16" GALVANIZED STEEL CABLE WETLAND MITIGATION PLAN MP A35.7 - MP A35.8 EROSION AND SEDIMENT POLLUTION CONTROL DIRECTION OF TRAVEL L'ITTT 21 DETAILS SHEET: X

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| CITOBER 2. 2015 PREPARED BY: A.D. MAREL & COMPANY, INC. 375 EAST ELM STREET, SUITE 101 CONSIGNOCUEN, PA 19428 PREPARED FOR: PREPARED FOR: THE PENNYLYANIA TURNIPIKE COMMISSION PREPARED PREPARED FOR: TURNIPIKE COMMISSION PREPARED PREPARED FOR: TURNIPIKE COMMISSION PREPARED P | CUCKEN A STRIATA EQUIVATIONAL EQUIVATIONAL STRIATA STRIATA EQUIVATIONAL STRIATA EQUIVATIONAL STRIATA EQUIVATIONAL EQUIVATIONAL <thequivational< th=""> <thequivational< th=""></thequivational<></thequivational<> | TABLE 1 - PERMANENT SEED ING WIXTURES COMPARENT SEED ING WIXTURE SEED SEED-CUSTOR WETLAND WIXTURE ONL ITTER NO. ANALE X MELONIC ACCENT NO. SEED-CUSTOR WETLAND WIXTURE ONL ITTER NO. AGG-XXXXX CAREX_LURIDIX COMPARENT NO. COMPARENT NO. COMPARENT NO. CAREX_LURIDIX CAREX_LURIDIX CAREX_LURIDIX CAREX_LURIDIX CAREX_LURIDIX <th colsp<="" th=""></th> | |
|---|--|--|--|
| A-031_0011001-3-07 ROA Image: Provide and the state of the | ATED. | TEMPORARY SEEDING MIXTURES IF SEEDING OCCURS OUTSIDE OF THE PLANTING DATES FOR ALL AREAS APPLY THE FOLLDWING TO EACH WIXTURE FOR TEMPORARY SEEDING. MIX PERMANENT THE FOLLDWING RATE TAL MATIVE GRASS MIXTURE FOLLOWING RATE COUBLOB APPLICATION RATE: 158LB/AC1 + WINTER RYE (30LB5/AC) COUBLOB APPLICATION RATE: 158LB/AC1 + JAPANESE WILLET MIX PERMANENT CUSTOM WETLAND SEED MIXTURE (FACW) WITH JAPANESE WILLET & SEED TOGETHER AT THE FOLLOWING RATE CUSTOM WETLAND SEED MIXTURE (OBL) WITH JAPANESE MILLET & SEED TOGETHER AT THE FOLLOWING RATE CUSTOM WETLAND SEED MIXTURE (OBL) WITH JAPANESE MILLET & SEED TOGETHER AT THE FOLLOWING RATE CUSTOM WETLAND SEED MIXTURE (OBL) WITH JAPANESE MILLET & SEED TOGETHER AT THE FOLLOWING RATE CUSTOM WETLAND SEED MIXTURE (OBL) WITH JAPANESE MILLET & SEED TOGETHER AT THE FOLLOWING RATE CUSTOM WETLAND SEED MIXTURE (OBL) WITH JAPANESE MILLET CUSTOM WETLAND SEED MIXTURE (OBL/AC) COMBINED APPLICATION RATE: 130LB/AC) COMBINED APPLICATION RATE: 130LB/AC) | |
| ADWAY AND BRIDGE RECONSTRUCTION FROM MILEPOST A31,34 TO A37,39 EROSION AND SEDIMERT - PM 5 5 1 19 JORDUGH: FRANCOWA TOWNSHIP | UNITING UNI | HARROW 6 TO BEDDING | |
| 1100 PLAN 1,435.8 1,445.00 1,445.00 1,445.00 1,455.00 1,4 | | PPROVED | |

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