

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. CENAP-OP-R-2016-956	Date	
Application No.	File No.	
CENAP-OP-R-2016-956		CENAP-OP-R-2016-956-85

In Reply Refer to:

REGULATORY BRANCH

This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and 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: City of Wilmington, Department of Public Works

AGENT: Rummel, Klepper & Kahl, LLP

WATERWAY: Christina River

LOCATION: South Walnut Street, Wilmington, New Castle County, Delaware

Tax Map Parcels 26-050.00-44, 46, 56, 58, 74, 75, and 80

(Lat. 39.73034°N/Long.-75.54959°W).

ACTIVITY: The applicant is proposing to create a wetland park in south Wilmington bordered by South Walnut Street to the west, A Street to the north, Buttonwood Street to the east, and Garasches Lane to the south as part of a wetland restoration/community resiliency project with the dual goal of creating an accessible, highly functioning wetland system and providing increased stormwater management capacity to Wilmington's Southbridge neighborhood. The design includes excavating approximately 95,000 cubic yards of material, with approximately 16,000 cubic yards of this material to be reused on site. An additional 30,000 cubic yards of clean topsoil will be added. The proposed restoration will permanently impact approximately 4.51 acres of waters of the United States associated with the regrading of the existing wetland. An additional temporary impact of approximately 0.14 acre of impact to waters of the United States is associated with construction access and sediment control measures. The applicant proposes to create approximately 5.35 acres of wetlands and open water, as well as enhance approximately 12.18 acres of wetlands and open water on the site.

Additionally, the applicant proposes to introduce tidal flow from the Christina River by replacing an existing 48" flap gate located under A Street, with a 48", self-regulating tide gate. The self-regulating tide gate will be configured to allow tidal inflow only during the bottom half of the tidal prism, therefore, it will be closed during high tides and tidal surges to prevent tidal flooding of the site and the surrounding low-lying properties. The tidal inflow during the lower half of the tidal prism will inundate the site up to elevation -1.0' which is the lowest elevation of the

proposed marsh. Further, the applicant proposes to add a 48" tidal flap gate to the Christina River in the northeast corner of the site, along the Church Street easement to decrease the residence time of stored flood waters. In order to facilitate the ebb and flow from the self-regulating tide gate, a network of tidal channels will be constructed throughout the site as well as 2 deep water pools that will provide habitat for water-dependent species.

Finally, a trail system will be installed through the wetland to allow for use of the wetland park for recreational purposes, as well as connecting Southbridge to nearby shopping and the Wilmington Riverfront. The trail system will include pile supported, elevated sections over the restored wetlands and tidal channels, as well as at-grad sections along the upland islands. The trail system will be constructed to provide for vehicle usage for maintenance access to an existing utility line within the park.

Prior to the 1800's, the project site consisted of a more expansive wetland and open water system. In order to provide for suitable land, conducive to industry, fill material such as tannery and/or pyrite waste, slag, cinders, ash from incinerators and dredge spoils were added to increase elevation. As a result, the current wetland complex is severely degraded, with a monoculture of *Phragmites australis* and contaminants including arsenic, lead, PCB's, some pesticides, polycyclic aromatic hydrocarbons, volatile organic compounds and semivolatile organic compounds. The monoculture of *Phragmites australis* will be removed via herbicide treatment, mechanical removal, and grading to alter the hydrology. A Proposed Plan of Remedial Action to address the contaminants is currently under review by the Delaware Department of Natural Resources and Environmental Control.

The proposed work and dimensions of the structures are indicated on the attached plans identified as Sheet 1 through Sheet 21.

PURPOSE: The purpose of the project is to create an accessible, highly functioning wetland park system and provide increased stormwater management capacity to Wilmington's Southbridge neighborhood.

AVOIDANCE/MINIMIZATION/COMPENSATION STATEMENT:

On April 10, 2008, the U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency published a *Final Rule on Compensatory Mitigation for the Losses of Aquatic Resources* (33 CFR 325 and 332 and 40 CFR 230). The rule took effect on June 9, 2008. In accordance with 33 CFR Part 325.1(d)(7) of the rule, the applicant has stated that the proposed project has been designed to avoid and minimize adverse effects on the aquatic environment to the maximum extent practicable, and has further documented that compensatory mitigation is not necessary. The following aspects and features of the project demonstrate the applicant's efforts in this regard.

The project is designed to restore and enhance a severely degraded wetland complex as well as establish additional wetlands on site. The project will result in improved wetland function and a net gain of aquatic resources. Consequently, the applicant is not proposing to conduct any compensatory mitigation for the work and the project is considered self-mitigating.

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 indicates that no registered properties or properties listed as eligible for inclusion therein are located within the permit area of the work. The Philadelphia District has determined that the permit area has been so extensively modified that little likelihood exists for the proposed project to impact a historic property. The District has determined that the project will have no effect on properties eligible for or listed in the National Register of Historic Places.

Essential Fish Habitat: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act 1996 (Public Law 104-267), requires all Federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH).

Effects of the Project: The project is not located in Essential Fish Habitat identified in the <u>Guide</u> to Essential Fish Habitat Designations in the Northeastern United States.

In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management (CZM) Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact of the proposed and/or existing activity on the State's coastal zone should be sent to this office, with a copy to the State's Office of Coastal Zone Management.

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 Michael D. Yost at 302-736-9763, by email at michael.d.yost@usace.army.mil, or by writing this office at the above address.

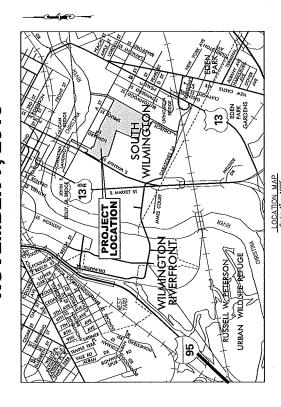
Edward E. Bonner Chief, Regulatory Branch



CITY OF WILMINGTON, DELAWARE DEPARTMENT OF PUBLIC WORKS **SOUTH WILMINGTON**

CONTRACT NO. PW XXXXX NOVEMBER 7, 2016

WETLANDS PARK



	INDEX	INDEX OF DRAWINGS
SHEET #	DWG.	TITLE
-	TOT	TITLE SHEET
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59	GP01-GP05	GRADING PLANS
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16-21	1501-1506	LANDSCAPING PLANS

CITY OF WILMINGTON, DELAWARE DEPARTMENT OF PUBLIC WORKS

BRYAN LENNON ASSISTANT WATER DIVISION DIRECTOR

RUMMEL, KLEPPER & KAHL, LLP

REVISION THE CONTRACTOR SHALL NOTIFY THE WATER DIVISION AT LEAST 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. CONSTRUCTION SHALL CONFORM TO APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, REQUIREMENTS, SPECIFICATIONS AND STANDARDS. EXISTING UTLITES ARE SHOWN FROM THE BEST ANALABLE RECORDS. THE OMITACITOR SHALL STEED IN 11 THE AREA FROMING DEPENDENCES ASSET AND ELECTRICAD PROPT OF PERFORMING SIZE AND ELECTRICAD PROPT OF PERFORMING SIZE AND ELECTRICAD PROPT OF THE CONTRACTORS SHALL BE MAREAVELT TO REPORTED. THE CONTRACTOR IS RESPONDED. FOR EXPONDED THE CONTRACTOR IS RESPONDED. FOR CONTRACTOR AND THE UTLITY OWNER. SHOULD THE CONTRACTOR WAS FINED CORRECTIONS OF ASSAURES THE CONTRACTOR ASSAURS RESPONSIBILITY FOR THE SAUD CORRECTIONS AND ASSAURS RESPONSIBILITY FOR THE SAUD CORRECTIONS. THE CONTRACTOR SHALL NOTIFY AISS UTILITY 72-HOURS PRIOR TO THE START OF CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SILT AND DEBRIS OUT OF THE STORM DRAINAGE. SYSTEM, STREAMS, AND RIVERS FOR THE DURATION OF THIS CONTRACT. ALL NECESSARY ADJUSTICATIONS TO EXISTING MANACLES, IN ETS, ETC, ARE TO BE COMPLETED BY CONTRACTION. THE CONTRACTION IS RESPONDED. FOR SEASONS SIGNAL SEASONS SIGNAL SEASONS SIGNAL SEASONS SIGNAL SEASONS SIGNAL SEASONS THAT ARE DAMAGED OF REDIVING DAMAGED OF REDIVING DAMAGED OF REDIVING SIGNAL SEASONS SIGNA THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADWAYS, DRIVEWAYS, STRECTURES, SIGNED AND CONTRACT DAMAGE ARREST, CUTTINES, PARCHAETS, CARR AND EXPLINATES, AND EXPLINATES, WORK ON THIS AND EXPLINATION WHICH AND ANY DAMAGED TEALS. PROJECT, AND SHALL REPAIR TO ORIGINAL CONDITION OR REPLICE IN-KND ANY DAMAGED TEALS. THESE DRAIMASS WERE PREPARED ON AS-BUILT AND OTHER CONSTRUCTION DOCUMENTS WHICH MAY NOT BE COMMENTED. YOUR OTHERS DRAIMAND SHALL BE FOR ESTIMATING PURPOSES OUT.Y AND ALL DMENSIONS SOLLED SHALL BE CONSIDERED APPROXIMATE. ESTIMATING PURPOSES OUT.Y AND ALL DMENSIONS SOLLED SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL PROVIDE ABEQUATE MEANS OF CLEANING TRICKS AND/OR EQUIPMENT OF MICH TRANSLAND ON A PRESENDENT-OF-WINK. THE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND CONTRACTOR AND OBTAIN WAILTER MEASURES SHALL SHALL THE ROLDINKY IS MAINTAINED BY A MUD AND DUST FIRE CONDITION AND LABLES. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DIMENSIONS OF ALL NEW CONSTRUCTION. ALL CONSTRUCTION SYALL ER IN ACCORDANCE WITH THE COUNTEST DOCUMENTS. GENERAL CONTROLL OF THE WASHINGTON SYALLER OF SOMETHICITON CONTRACTS, DELAWARE EXPARATION OF TRANSPORTATION SYALANDES SECRIFICATIONS FOR ROLL MAY DEPOSE CONSTRUCTION AND ANY OTHER DOCUMENTS. SECRIFICATION REPORTANCE WITHIN THESE DOCUMENTS. RIMMEL, MEEPER, AND KARL LE AND THE COTT OF WINNETON ARE AND TESTORISEE. FROM CONTRACTOR'S UTILIZATION OF WORKERS, MATERALS AND EXCHIPIENT OF SAFETY MEASURES. IN THEIR PERFECTION OF WORKER, THE CONTRACTOR MEASURES. ALL RESPONSIBILITY AND LIBBILITY FOR PERFORMING. THE CONTRACTOR MEASURES ALL RESPONSIBILITY AND LIBBILITY FOR PERFORMING. THE WORK CONTRACT. A MODIFICATION OF METEROPHAINS THE WORK CONTRACT. A MODIFICATION OF METEROPHAINS THE WORK CONTRACT. A MODIFICATION OF METEROPHAINS THE WORK CONTRACT. THE CONTRACTOR IS REQUIRED TO VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION WORN TO ACCEPTINES. PHYMANTON VIDEO INSPECTION OF NEW PIPES SHALL BE INCLIDED IN THE PRICE FOR PROPOSED STORM DRAIN PIPING. DATE APPD BOLD TEXT AND LINES DENOTE NEW WORK, THIN TEXT AND LINES DENOTE EXISTING ITEMS. SHOLLD THE CONTRACTOR DISCOLER ANY CONFLICTS IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MISCH BRIGH WAS TREAM WAS THE MANDHAILTY TO THE ENGINEER'S ATTRIBUTION STATE AND ACCULTANT WAS THE COLUMN ANY THE COLUMN ANY THE COLUMN THE STALLD AND THE FIGHTED DIMENSIONS SHOWN ON THESE PLANS, THE FIGHTED DIMENSIONS SHOWN. THE COMTRACTOR SHALL NOT IMPACT IN ANY FASHION THE AREA CUTSIDE THE LIMITS OF CONSTRUCTION. AT THE END OF EACH WORKING SHIFT, ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IN PLACE AND FULLY FUNCTIONAL. WHERE PROPESSED CONSERTE SORWALKS, RE OMSTRICTIED TO MEET DESERME SUEWILK, THE EISTING SIDEMIKE SHALL BE SAWOLT AT THE THEN POINT ON MEET THE WENDER SISTING SIDEMIKE SHALL LES SAWOLT AT THE THEN POINT ON MEET THE WENDER SHALL BE FULL DEPTH AND SHALL BE MALLIDED IN PROPOSED SIDEMIKE THEM. THE CONTRACTOR MUST OBTAIN ALL SPECIAL PERMITS RECUIRED TO CONSTRUCT THE PROMEST. THESE MAY INCLUSE BUT ARE INCL LAMED TO CITY STREET CLOSURE PREMITS. FIC., OBTAINNIST THE PERMITS IN LIND JUSTIFY A DELAY IN THE CONSTRUCTION SCHEDULE. ALL BRICK, CONORETE AND ASPHALT SANEUTING SHALL BE DONE WITH A WET SAW. TO CONTROL DISACT, COSTS, SASSOCIATED WITH THE ELYMSHANG AND APPLICATION OF WATER OF DUSTS CONTROL SHALL BE INJUSTING. TO THE CONTROL BID TEXAS. APPROVED DESIGNED: MRS 5 CHECKED: JTR DRAWN: RACK RUMMEL, KLEPPER & KAHL, LLP Engineer Construction Monagora Planters Scientists Scientists Bit Mosher Street Bathmere ND 21217-4250 83 7. œ ő, r:

GENERAL NOTES

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CITY OF WILMINGTON
DEPARTMENT OF PUBLIC WORKS
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CONTRACT NO. N/A

SOUTH WILMINGTON
WETLANDS PARK
GENERAL NOTES

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DWG, GNO1

DWC: GN01
SHEET NO.: 2 OF 21
DATE: NOVEMBER 7, 2016 REV: 0.

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1	GUARDRAIL - STEEL BEAM
4	GUARDRAIL - WIRE ROPE
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% □	MALBOX
¥	PARKING METER AND POST
1	PAVEMENT - FLEXIBLE
	PAVEMENT - RIGID
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0	PILLAR OR MISCELLANEOUS POST
₹	TRAFFIC SIGN AND POST
qaaa	WALL - BRICK OR BLOCK
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0	TREE - DECIDUOUS
đ	TREE STUMP
e	SHRUBBERY
	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

-	RIGHT-OF-WAY SYMBOLS
c _B w.	PROPERTY MARKER - CONCRETE MON.
÷	PROPERTY MARKER - IRON PIPE
00+00t	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
£	EXISTING PROPERTY LINE
EASEMENT TYPE-	EXISTING EASEMENT
bA	EXISTING DENIAL OF ACCESS
R/W-DA	EXISTING R/W & DENIAL OF ACCESS

CW-S. GITY OF WILMINGTON SEWER

——CWGS.—— GITY OF WILMINGTON STORM DRAN

——CW-WB.—— GITY OF WILMINGTON WATER

——DP-E.—— DELMARVA POWER-ELECTRIC

——DP-E.-OH —— DELMARVA POWER-ELECTRIC

WELL HEAD
MANHOLE - UNDETERMINED OWNER

WELL

UTILITY COMPANY FACILITIES

— DP-6 — DELMARVA POWER-CAS
— VER-C VERZON
— ATT-C AMERICAN TELEPHONE & TELEGRAPH
— CDW — CDWCAST
— NGC-S — NEW GASTLE COUNTY SEWER

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_	RIGHT-OF-WAY SYMBOLS
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3d	PROPOSED PERMANENT EASEMENT
	PROPOSED RICHT-OF-WAY
R/W-DA	PROPOSED R/W & DENIAL OF ACCESS
TCE	TEMPORARY CONSTRUCTION EASEMENT

UTILITY BOX
UTILITY POLE GUY WIRE ANCHOR

UTLITY POLE
WATER - FIRE HYDRANT
WATER METER
WATER VALVE

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& DIRECTIONAL FLOW ARROW

	CITY OF W DEPARTMENT OF JEFREY J. STARK CONTRACT
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WILMINGTON
OF PUBLIC WORKS
ARREY COMMESSIONER
ACT NO. N/A

SOUTH WILMINGTON WETLANDS PARK LEGEND

DESIGNED: MRS DRAWN: RJP снескер, ЈТК RUMMEL, KLEPPER & KAHL, LLP Engineers | Construction Monogers | Floring Scientists | St. Monober Street Bottmore ND 21217-4250

NO. DATE APPD APPROVED

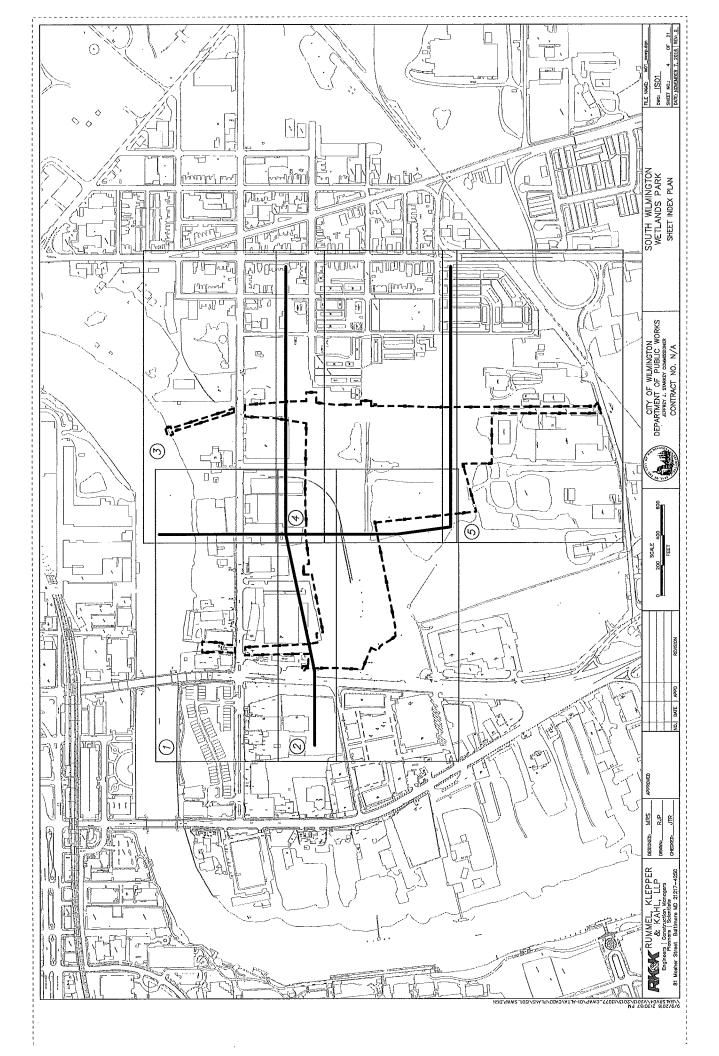
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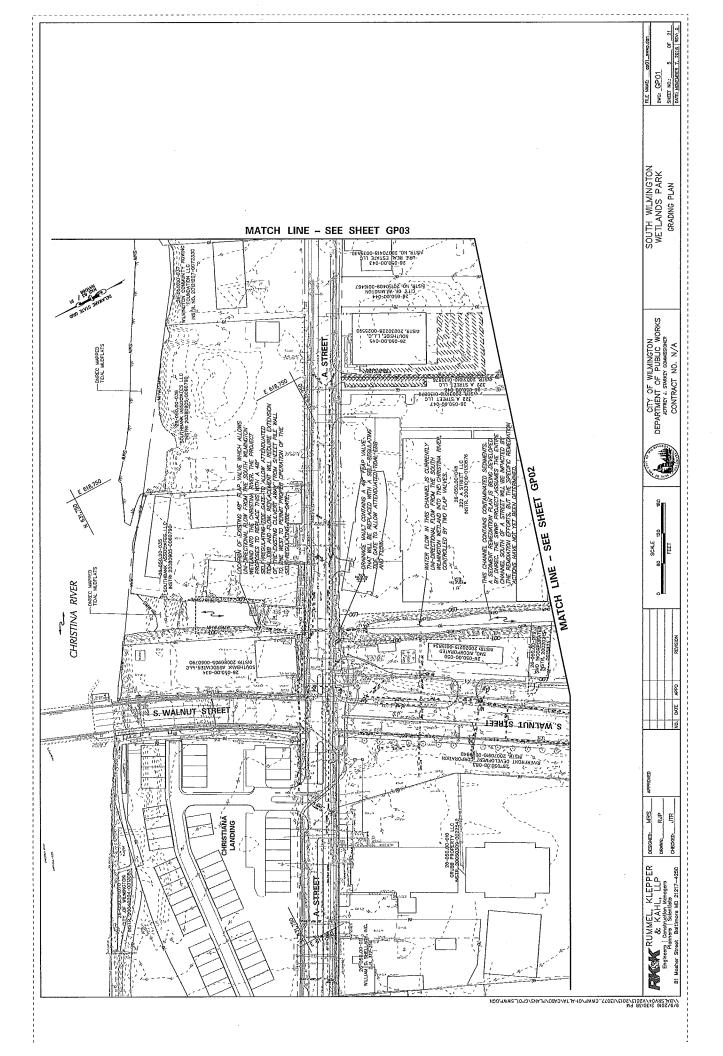
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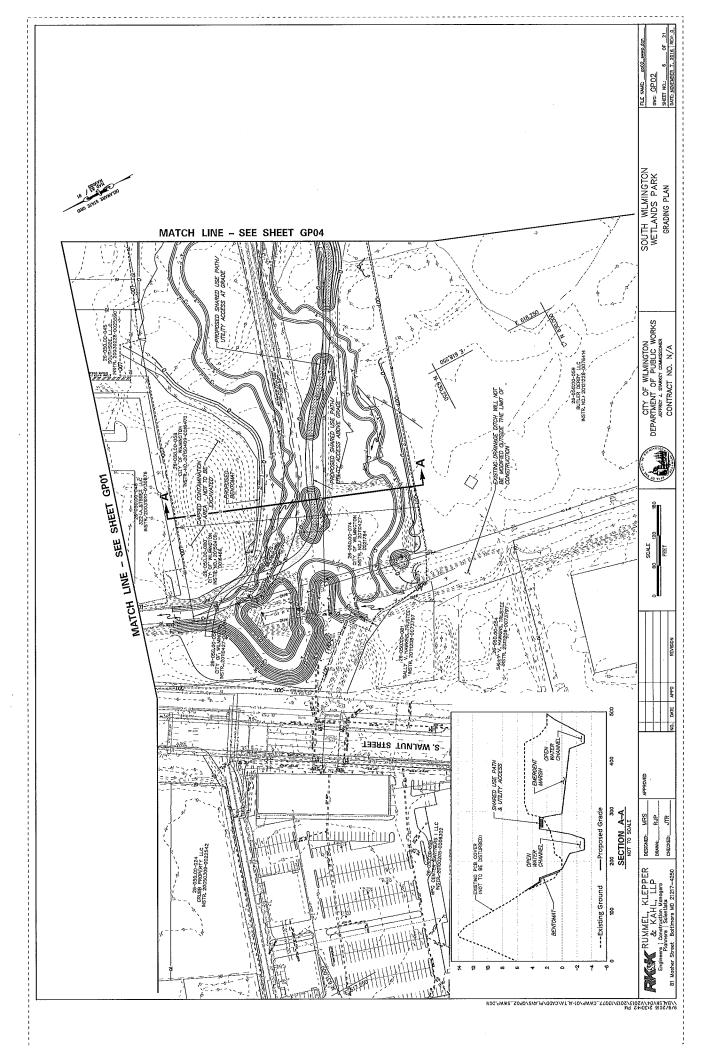
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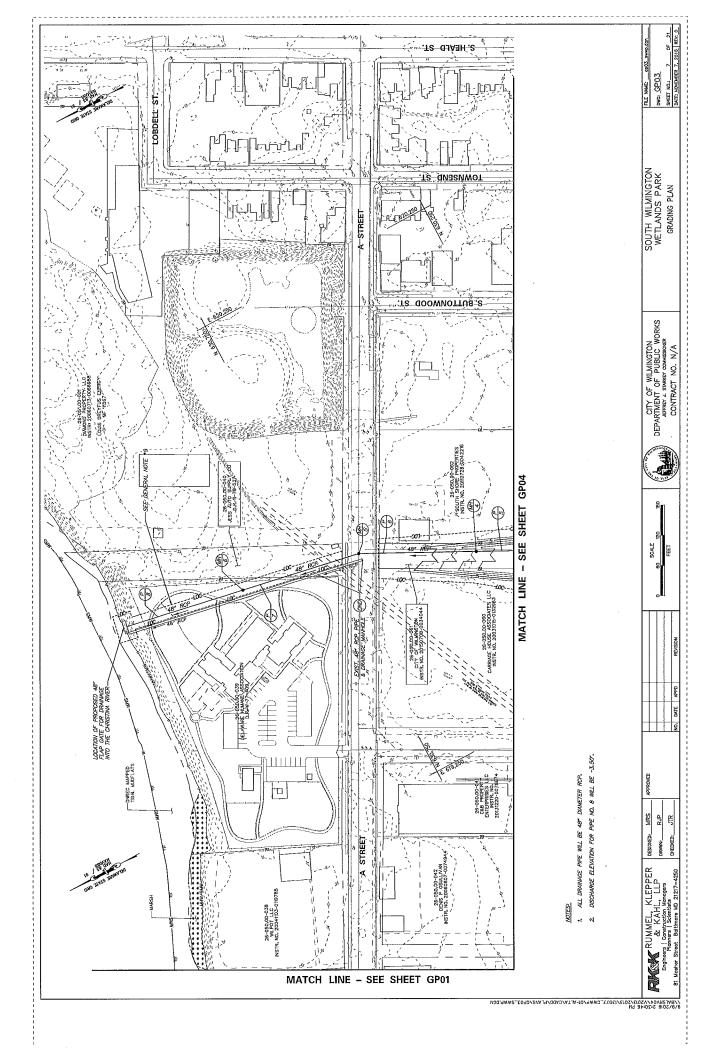
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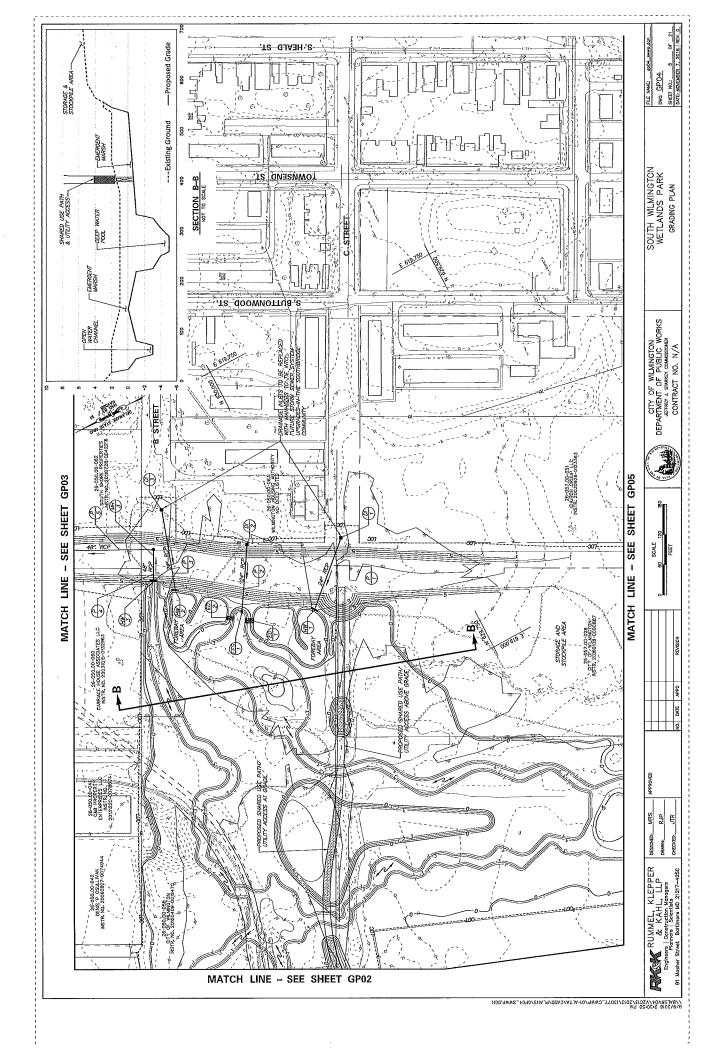
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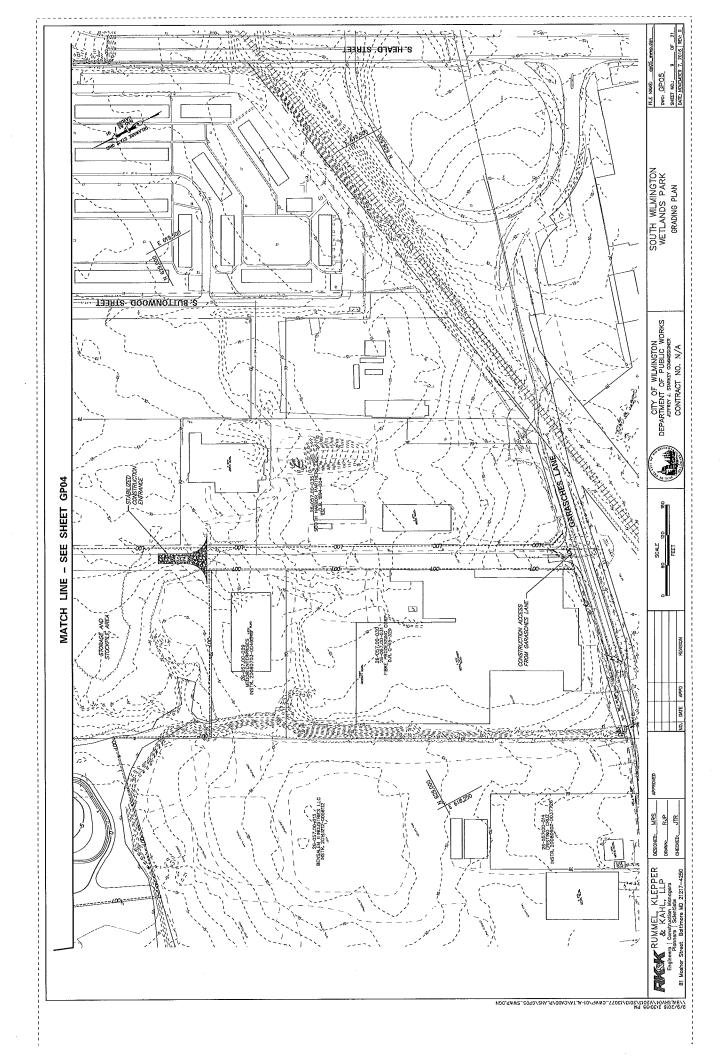


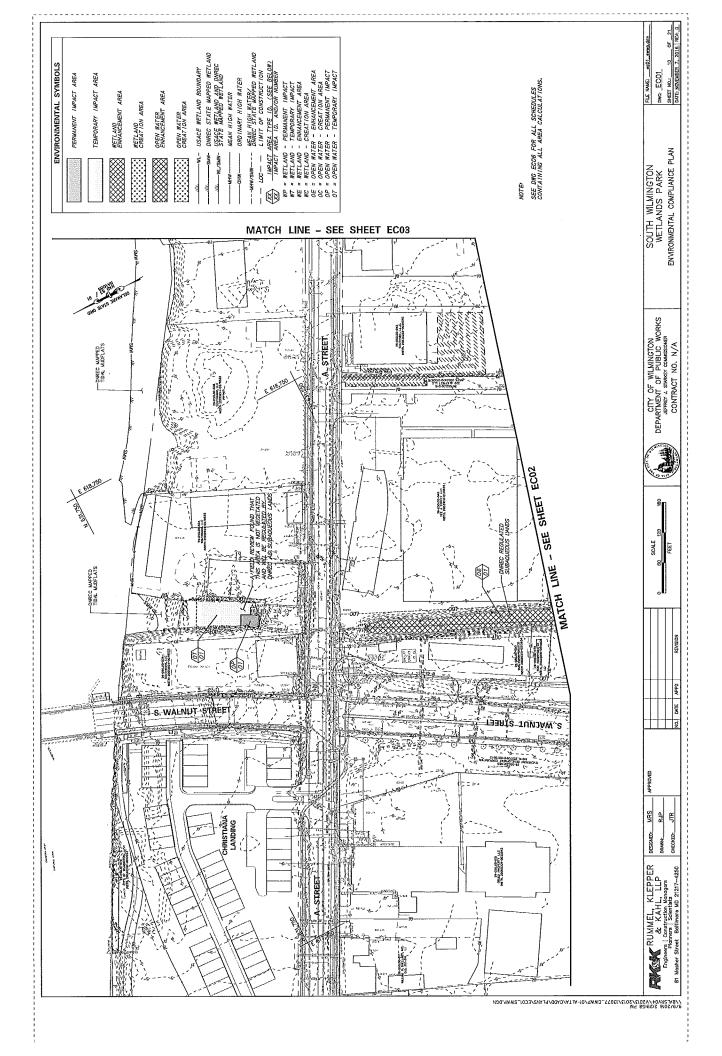


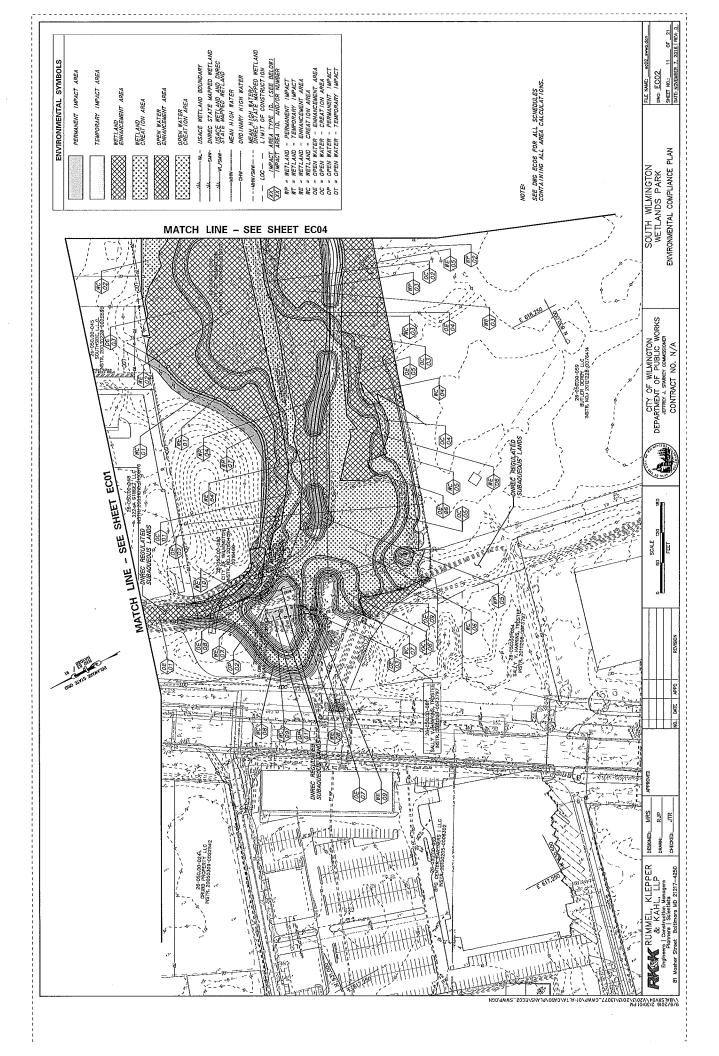


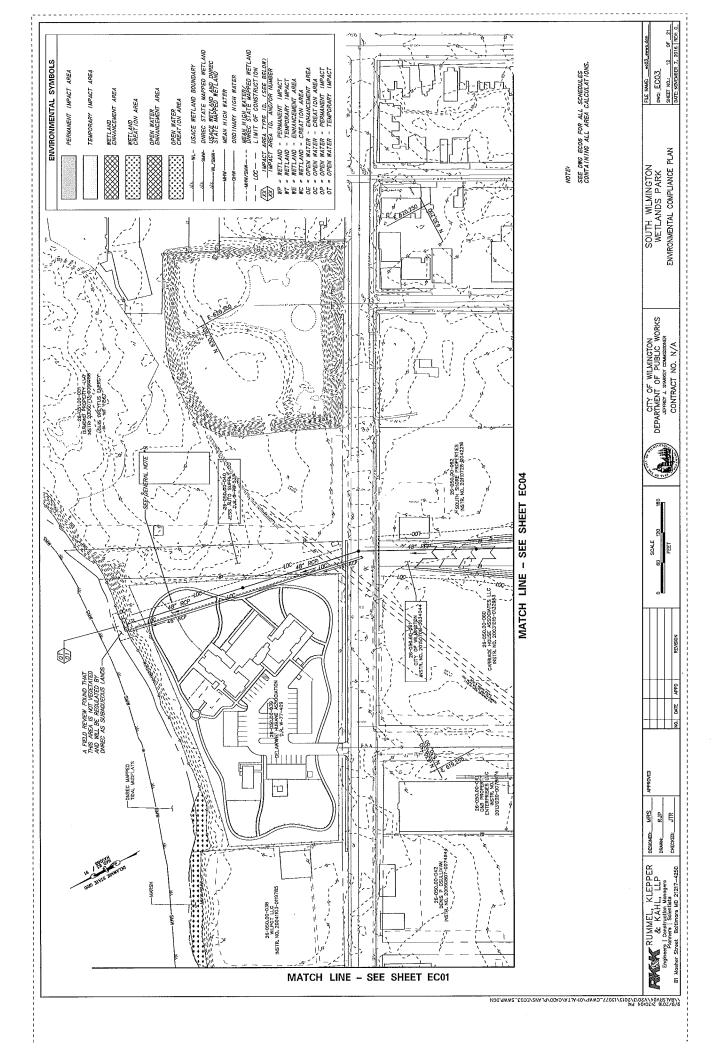


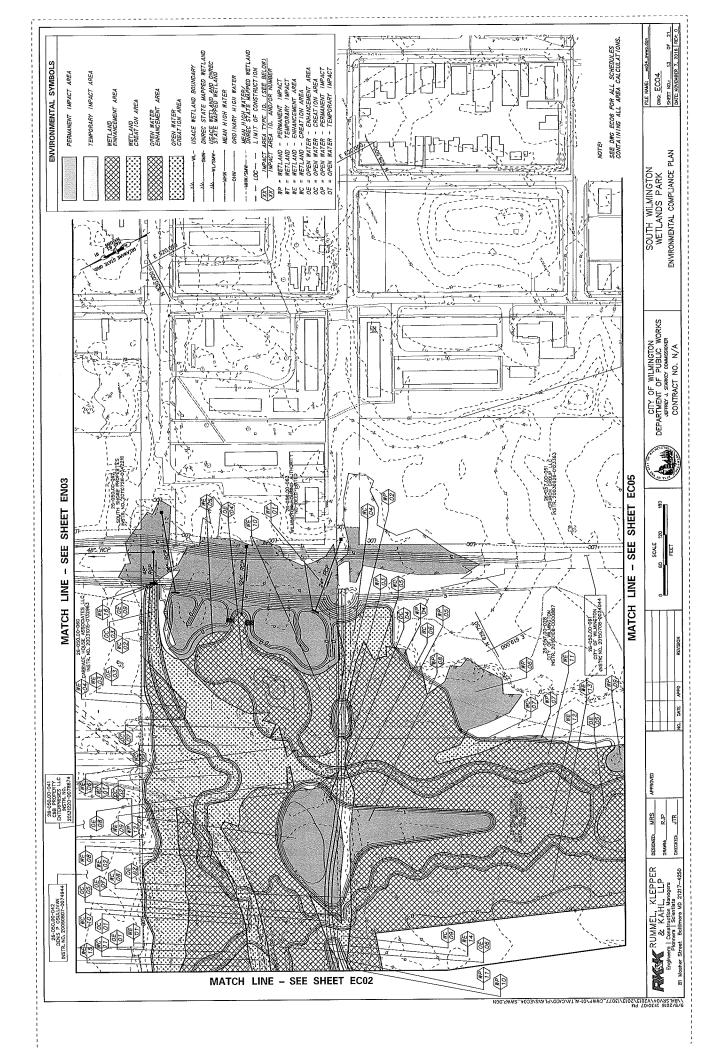


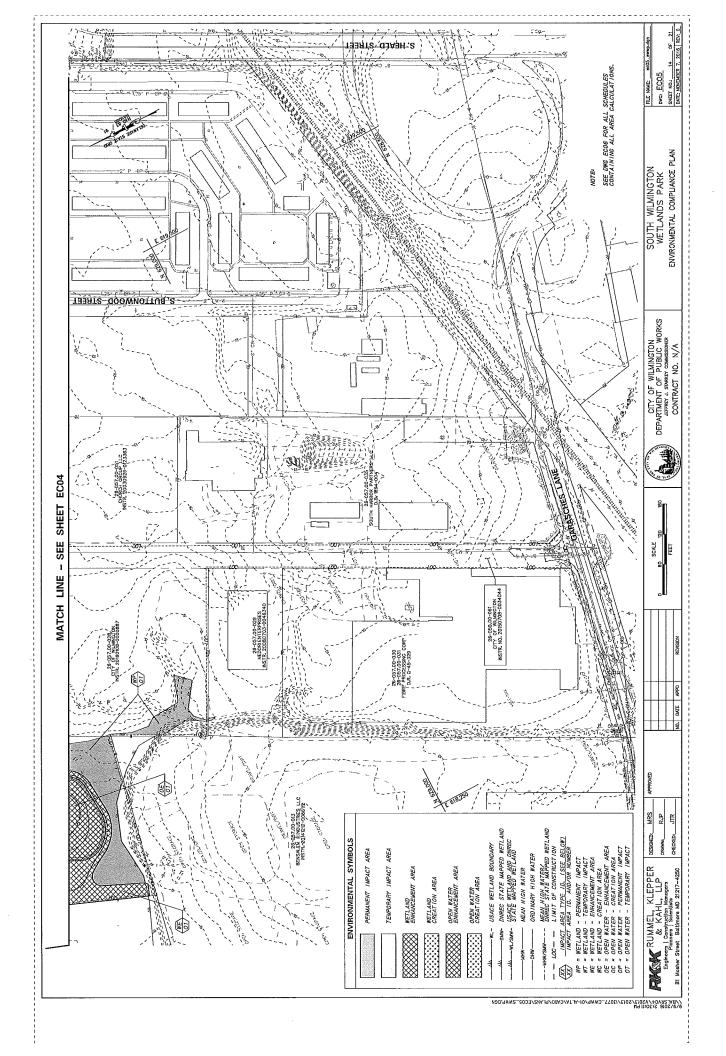












SHEET ECO1

	OPEN WATER ENHANCEMENT AREA SCHEDULE	CEMENT AR	EA SCHEDU	=
01	DESCRIPTION	AREA (SF)	AREA (AC)	JURISDICTION
1-0E-01	-OE-O1 GRADING	10, 458, 10	0.2401	USACE/DNREC
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01	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	JURISDICT ION
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TEMPORARY OPEN WATER IMPACT AREA SCHEDULE
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SHEET EC02

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0/	DESCR	DESCRIPT ION		AREA	AREA (SF)	AREA (AC)	AREA (AC) JURISDICTION
2-00-01	2-0C-01 EXCAVATION			15, 46.	15, 463, 14	0.3779	USACE
2-0C-02	2-0C-02 EXCAVATION			373.28	28	0.0086	USACE
2-00-03	2-0C-03 EXCAVATION			997. 63	63	0.0229	USACE
2-0C-04	2-0C-04 EXCAVAT 10N			1, 134. 57	. 57	0.0260	USACE
2-00-05	2-0C-05 EXCAVATION			7, 870, 75	7. 75	0. 1807	USACE
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	OPEN WATER ENHANCEMENT AREA SCHEDULE	CEMENT AR	EA SCHEDU	当
01	DESCRIPT ION	AREA (SF)	AREA (AC)	JURISDICTION
2-0E-01	2-0E-01 GRADING	6, 591. 54	0. 1513	USACE/DNREC
2-0E-02	2-0E-02 GRADING	981.66	0.0225	USACE
2-0E-03	2-0E-03 GRADING	16, 271. 59	0.3735	TOYSO
2-0E-04	2-0E-04 GRADING	6, 854, 93	0.1574	USACE
2-0E-05	2-0E-05 GRADING	6, 422, 68	0.1474	USACE
2-0E-06	2-0E-06 GRADING	103, 25	0.0024	USACE
2-0E-07	2-0E-07 GRAD ING	262, 29	0900 0	USACE/DNREC
2-05-08	2-0E-08 GRADING	131.45	0.0030	USACE/DNREC
2-0E-09	2-0E-09 GRADING	3, 222, 15	0.0740	USACE/DNREC

	PERMANENT OPEN WATER IMPACT AREA SCHEDULE	TER IMPACT	AREA SCHE	DOLE
01	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	JURISDICTION
2-0P-01	GRADING	1, 489.82	0.0342	USACE/DNREC
2-0P-02	2-0P-02 GRADING	1, 433. 49	0.0329	USACE/DWREC
2-0P-03	2-OP-O3 GRADING	312.21	0.0072	USACE/DNREC
	WETLAND	WETLAND CREATION AREA	\REA	
10	DESCRIPT ION	AREA (SF)	AREA (AC)	AREA (AC) JURISDICTION
2-WC-01	2-WC-01 EXCAVATION	12, 359, 59	0. 2837	USACE
2-WC-02	2-WC-02 EXCAVATION	3, 823, 63	0.0878	USACE
2-WC-03	2-WC-03 EXCAVATION	1, 079. 34	0.0248	USACE
2-WC-04	2-WC-04 EXCAVATION	374, 25	0.0086	USACE
2-WC-05	2-WC-05 EXCAVATION	12, 662, 94	0. 2907	USACE
2-WC-06	2-WC-06 EXCAVATION	38, 290, 28	0.8790	USACE
2-WC-07	2-WC-07 EXCAVATION	1, 963, 33	0.0451	USACE
2-WC-08	2-WC-08 EXCAVATION	2, 490. 43	0.0572	USACE
2-110-09	2-WC-09 EXCAVATION	1, 889. 77	0.0434	USACE

	WETLAND	WETLAND CREATION A	AREA	
0/	DESCRIPTION	AREA (SF)	AREA (AC)	JURISDICT 10
2-110-01	2-WC-01 EXCAVATION	12, 359, 59	0. 2837	USACE
2-WC-02	EXCAVAT 10N	3, 823, 63	0.0878	USACE
2-110-03	2-WC-03 EXCAVATION	1, 079. 34	0.0248	USACE
2-WC-04	2-WC-04 EXCAVATION	374. 25	9800 0	USACE
2-WC-05	2-WC-05 EXCAVATION	12, 662, 94	0.2907	USACE
2-110-06	2-WC-06 EXCAVATION	38, 290, 28	0.8790	USACE
2-110-07	2-WC-07 EXCAVATION	1, 963, 33	0.0451	USACE
2-WC-08	EXCAVAT 10N	2, 490. 43	0.0572	USACE
2-110-09	2-WC-09 EXCAVATION	1.889.77	0. 04.34	JJ850

SHEET EC02 CONTINUED

	WETLAND	WETLAND ENHANCEMENT AREA	AREA	
0/	DESCRIPTION	AREA (SF)	AREA (AC)	JURISDICTION
2-WE-01	GRADING	33, 133, 18	9092 '0	USACE
2-WE-02	2-WE-02 GRADING	28, 150, 57	0.6462	USACE
2-WE-03	2-WE-03 GRADING	11, 552.06	0.2652	USACE
2-WE-04	2-WE-04 GRADING	23, 216, 05	0.5330	USACE
2-WE-05	2-WE-D5 GRADING	25, 006, 59	0.5741	USACE
2-WE-06	2-WE-06 GRADING	7, 508.89	0.1724	USACE/DNREC
2-WE-07	2-WE-07 GRADING	194,14	0.0045	USACE/DWREC
2-WE-08	2-WE-OB GRADING	106.10	0.0024	USACE/DWREC
2-WE-09	2-WE-09 GRADING	72.00	0.0017	USACE/DNREC
2-WE-10	2-WE-10 GRADING	2, 861, 95	0.0657	USACE/DNREC

	PERMANENT WETLAND IMPACT AREA SCHEDULE	IMPACT A	REA SCHEDI	JLE
0/	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	JURISDICTION
2-WP-01 F1LL	771.	7, 623, 92	0.1750	USACE
2-WP-02 F	7713	346, 15	0.0079	USACE
2-WP-03 F	771:	1, 710, 30	0.0393	USACE
2-WP-04 F	771:	5, 030, 79	0, 1155	USACE
2-WP-05 F	7713	2, 923, 17	0.0671	USACE

SHEET EC03

DULE	JURISDICTION	USACE/DNREC
AREA SCHE	AREA (AC)	0.0200
ER IMPACT	(SE) VBBV	871.53
TEMPORARY OPEN WATER IMPACT AREA SCHEDULE	IMPACT DESCRIPTION	3-01-01 CONSTRUCTION ACCESS/ E&S
	01	3-07-01

SHEET EC04

	OPEN WATER CREATION	CREATION A	REA	AREA SCHEDULE	-
01	DESCRIPTION	AREA (SF)	SF)	AREA (AC)	JURISDICTION
4-00-01	EXCAVATION	4, 053, 13	13	0.0930	USACE
4-0C-02	EXCAVAT ION	9, 399. 84	84	0.2158	USACE
4-00-03	EXCAVATION	4, 261.37	37	0.0978	USACE
4-0C-04	EXCAVATION	2, 357. 76	76	0.0541	USACE
4-0C-05	EXCAVATION	2, 373, 99	66	0.0545	USACE
4-0C-07	EXCAVATION	1,617.13	13	0.0371	USACE

	OPEN WATER ENHANCEMENT AREA SCHEDULE	CEMENT AR	EA SCHEDU	LE .
aı	DESCRIPTION	(SE) VEH	AREA (AC)	JURISDICT ION
4-0E-01	4-0E-01 GRADING	3, 542, 13	0.0813	USACE
4-0E-02	4-0E-02 GRAD ING	3, 806, 55	0.0874	USACE
4-0E-03	4-0E-03 GRAD ING	2, 968, 00	0.0681	USACE
4-0E-04	4-0E-04 GRADING	27, 720. 87	0, 6364	USACE
4-05-05	4-0E-05 GRAD ING	40, 136, 92	0.9214	USACE
4-0E-06	4-0E-06 GRAD ING	13, 352, 79	0.3065	USACE
4-0E-07	4-0E-07 GRAD ING	204.45	0.0047	USACE
4-0E-08	4-0E-08 GRADING	138.12	0.0032	USACE
4-05-09	4-0F-09 GR40/NG	29.80	0.0007	11SACE

SHEET EC04 CONTINUED

	WETLAND	WETLAND CREATION AREA	REA	
Q)	DESCRIPTION	AREA (SF)	AREA (AC)	JURISDICTION
4-WC-01	EXCAVATION	39, 463. 68	0906.0	USACE
4-WC-02	4-WC-02 EXCAVATION	1, 183, 35	0.0272	USACE
4-110-03	4-WC-03 EXCAVATION	36, 473, 76	0.8373	USACE
4-WC-04	EXCAVATION	10, 507, 29	0.2413	USACE
4-WC-05	EXCAVATION	2, 239. 88	0.0514	USACE
4-WC-06	4-WC-06 EXCAVATION	1, 920. 68	0.0441	USACE
4-WC-07	4-WC-O7 EXCAVATION	3, 411, 60	0, 0783	USACE
4-WC-08	EXCAVAT ION	610.57	0.0140	USACE
2-WC-09	2-WC-09 EXCAVATION	1, 684, 29	0.0387	USACE
4-WC-10	4-WC-10 EXCAVATION	625.82	0.0144	USACE
4-WC-11	EXCAVAT 10N	1, 827.92	0.0420	USACE

	NO															
	JURISDICTION	USACE														
AHEA	AREA (AC)	0.4469	0.0059	0.0553	0.0109	0, 1131	0.0076	0. 4669	0.0116	0. 2602	1.3172	1. 1958	1, 3723	0, 1137	0.0419	0.0011
HANCEMEN	AREA (SF)	19, 469, 00	258.08	2, 408, 23	473.84	4, 927. 41	331, 32	20, 339, 09	504, 23	11, 333, 18	57, 377, 91	52, 090, 34	59, 777, 52	4, 951, 90	1, 823, 60	48.88
WEILAND ENHANCEMENI AREA	DESCRIPTION	4-WE-01 GRADING	4-WE-02 GRADING	4-WE-03 GRADING	4-WE-04 GRADING	4-WE-OS GRADING	4-WE-O6 GRADING	4-WE-OB GRADING	4-WE-09 GRADING	4-WE-10 GRADING	4-WE-11 GRADING	4-WE-12 GRADING	4-WE-13 GRADING	4-WE-14 GRADING	4-WE-15 GRADING	4-WE-16 GRADING
	ai	4-WE-01	4-WE-02	4-WE-03	4-WE-04	4-WE-05	90-3#->	4-WE-08	4-WE-09	4-WE-10	4-WE-11	4-WE-12	4-WE-13	4-WE-14	4-WE-15	4-WE-16

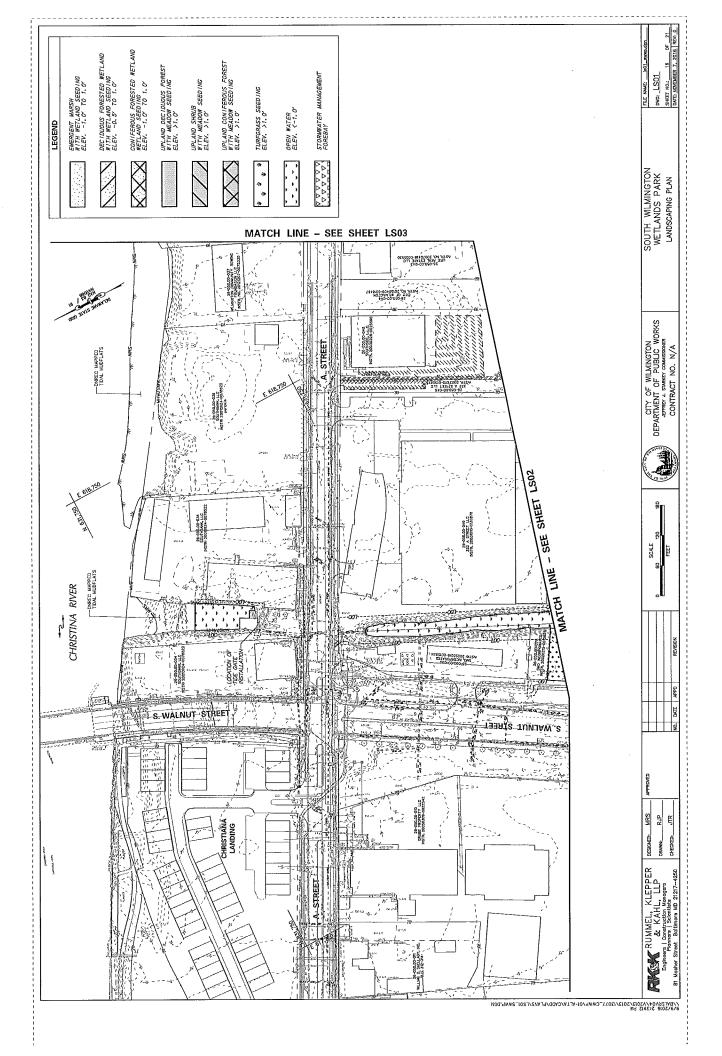
	PERMANENT WETLAND IMPACT AREA SCHEDULE	IMPACT AR	EA SCHEDI	JLE
91	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	AREA (AC) JURISDICTION
4-WP-01	7713	92, 576, 60	2, 1253	USACE
4-WP-02 FILL	77/3	704.37	0.0162	USACE
4-WP-03 F11L	7713	237. 74	0.0055	USACE
4-WP-04 F1LL	7714	279, 75	₹900 0	USACE
4-WP-05 FILL	7714	177. 29	0.0041	USACE
4-WP-06 F11L	7713	13, 235, 71	0.3039	USACE
4-WP-07 FILL	7713	647.22	0.0149	USACE
4-WP-08 F1LL	FILL	18, 113, 78	0.4158	USACE
4-WP-09 F1LL	7714	1, 645, 20	0.0378	USACE
4-WP-10 F1LL	7713	29, 16	0.0007	USACE
4-WP-11 F1LL	FILL	779, 30	0.0179	USACE
4-WP-12 FILL	F122	23, 843, 29	0.5474	USACE

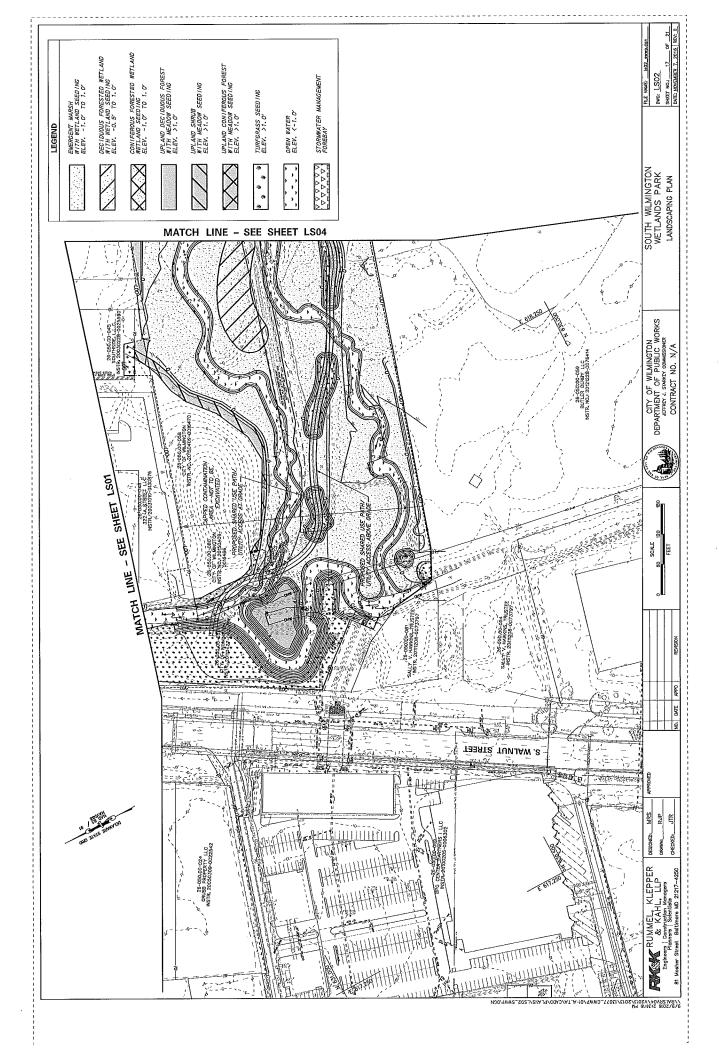
SHEET EC05

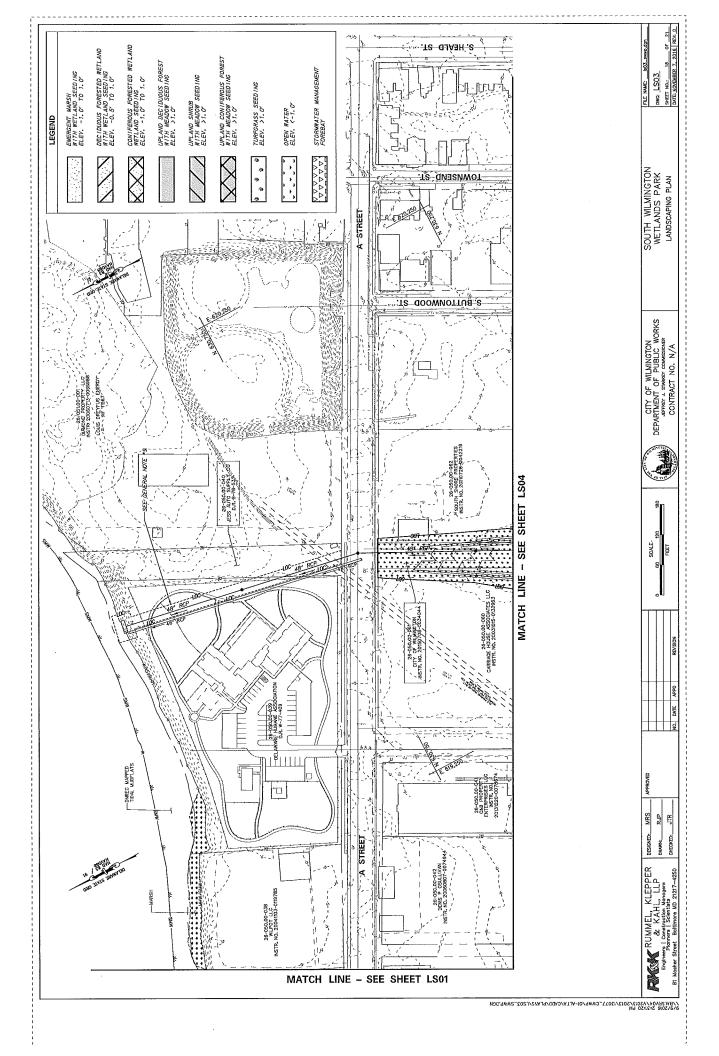
	OPEN	WATER EN	OPEN WATER ENHANCEMENT AREA SCHEDULE	REA SCHEDI	JLE
10	SEC	DESCRIPTION	AREA (SF)	AREA (AC)	JURISDICTION
5-0E-01	5-0E-01 GRADING		9, 196, 42	0, 2111	USACE

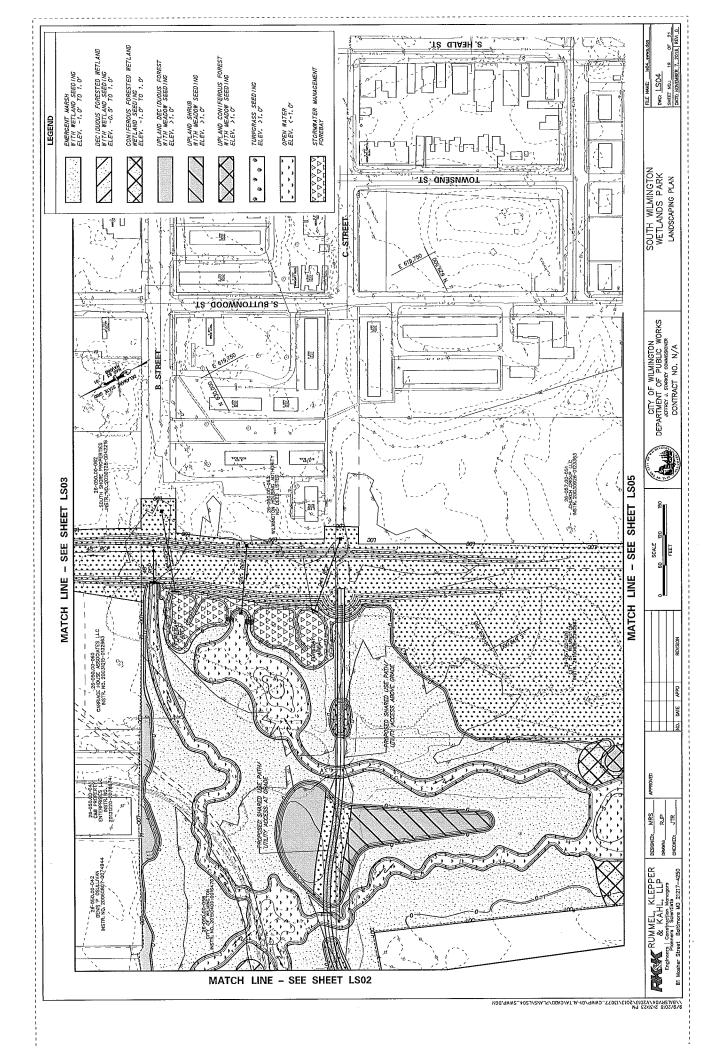
	OPEN WATER ENHANCEMENT AREA SCHEDULE	CEMENT AR	2000	<u></u>
10	DESCRIPTION	AREA (SF)	AREA (AC)	AREA (AC) JURISDICTION
5-0E-01	5-0E-01 GRADING	9, 196. 42	0, 2111	USACE
	WETLAND ENHANCEMENT AREA SCHEDULE	MENT AREA	SCHEDUL	
01	DESCRIPTION	AREA (SF)	AREA (AC)	AREA (AC) JURISDICTION
5-WE-01	5-WE-01 GRADING	10, 217, 79	0.2346	USACE

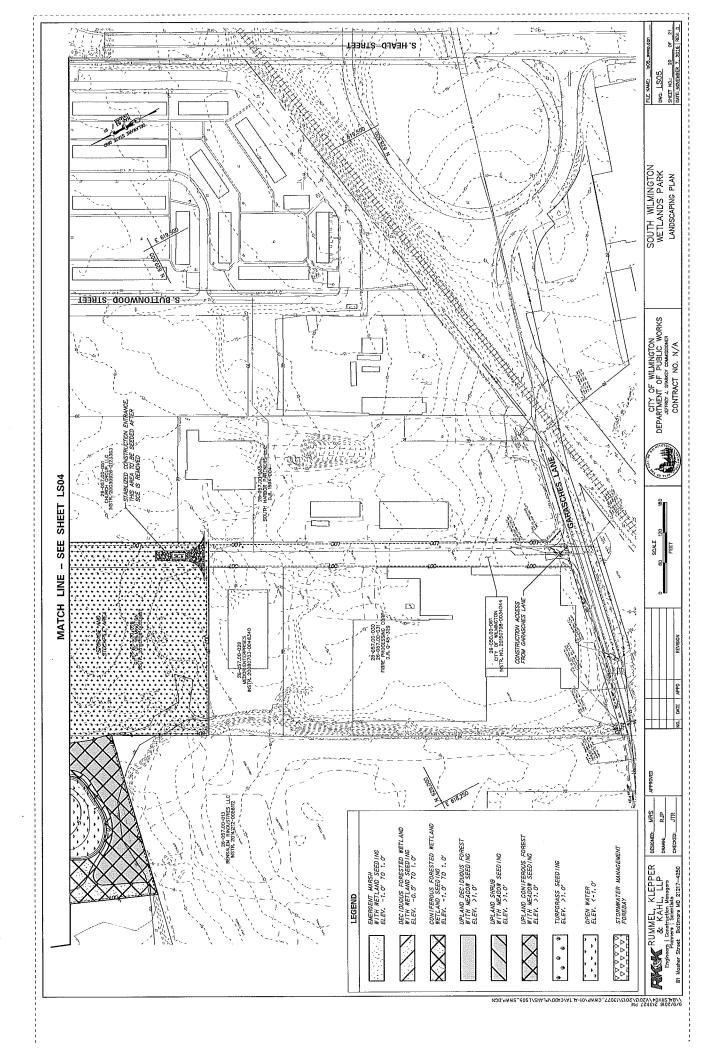
	PERMANENT WETLAND	IMPACT A	IMPACT AREA SCHEDUL	JLE
a/	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	AREA (AC) JURISDICTION
5-WP-01	7714	22, 880. 46	0. 5253	USACE











EMERGE	NT MA	RSH- Ele	ERGENT MARSH- Elevations -1.0 to 1.0	1.0	Size Planted (acres):	d (acres):		12.02	UPLAND	FOREST	CONI	EROUS-Elev	PLAND FOREST - CONFEROUS- Elevations Above 1.0
Minimum Spacing- feet est eventer (OC)	A Samuely Per rect	Frequency (%)	Species Quantity	Vegetation Strate/ Species Name	Common Name	Wetland Indicater Status	TYPE	Comment	Minimum Spacing- fect on	Ossasity per acre	£	Species Quantity	Vegetation Strata/ Species Name
2	10,890			EMERCENT HERBACEOUS					company (OC)				
		[<u>.</u>	19,635	Amphar advers	Yolow nond-lily	780	Berr Root		2	ş			TREES
		ř	ACT CF.	Petrondro vivoluica	Among areas	OBL	Pho-Peat Pot				9	86	Pinus torda
		×	244	Pontaciona conduto	Pickenshared	OBC	Pho-Pent Pot				30	40	Firms Virginiana
	I	ş	76 190	Santtonio Laticalia	Persedies Commenteed	a c	Phothest Bor				23	62	Pintas ecfaneria
			\$670	Volument for the numbers	Common (Incommon	ē	Plus/Boar Doe			-	\$	12	Nysea sylvatica
			200.01								ş	čī	lktr opoca
		1960	DK GPACE	SMILE CENTRALINE									SHIRUBS
1		į	34.0	Carbolastine confidentille	Common betrockenh	Jap	10.	observed abrotises of \$ to 10.		_	8	12	sustant of the same
0			2767	Control of the contro	College Concessions		-	20.00		ľ	0 001	77.	

FOREST	ED WE	TLAND-	DECIDIONS - 1	FORESTED WETLAND - DECIDUOUS - Elevations -0.5 to 1.0	Size Planted (acres):	d (acres):		0.37
Spacing	Onswitty	, L	Snacies Ossettiv	Vegetation Strata/	Contenso Name	Wertend	1700	S
center (OC)	No.	£		Species Name		Startes		
2	ş			TREES				
	L	ឧ	33	Acer ruhaum	Redmapte	FAC	3 GaL/4+5 ft.	
	L	ន	æ	(mercus photios	Wilbor oak	HACW	3 Gal/4-5 ft.	
	L	01	91	Quercia bloofor	Swamp white oak	FACW	3 Gal/4-5 ft	
	L	01	92	Platame occidentalis	American sycamore	PACW	3 Ca1/4-5 ft.	
		,	×	Niwau minatica	Bbck tapelo	FAC	3 Ga1/4 ft.	
		ş	×	Lispaidomhar scyrocifluo	Sweet-gun	DVA	3 Gn1/4 ft.	
		10	91	Magnolla virginiana	Sworthay magnolia	FACW	3 GaL/4 ft.	
	L			SHRURS				
	L	01	91	Clatino olaffolia	Constal sweet-pepperbush	FACW	3 GaU2 ft.	
		01	91	Her vericiliata	Common winterberry	W2A?	3 GeU2 ft.	
		100.0	163					

	N AF	LAND.	CONFEROUS	ORESTED WETLAND - CONFEROUS- Elevations -1.0 to 1.0	Size Planted (acres):	d (acres):		0.45
Minimum Spacing- freet on conter (OC)	in accept	French (76)	Species Ossutity	Vegetation Stratul Species Name	Cornerson Name	Wethard Indicator Status	TYPE	Comment
01	eş.			TREES				
	Ī	40	79	Toxodium disterm	Buld cyprose	OBL	3 GeL/2 ft	
		30	04	Pime tuedo	Lobbily pire	FAC	3 Gal/2 ft	
				SHRUBS				
	Г	٩	30	Hex giahma	Inkberry	FACW	3 Gel	
		SI.	29	liex verteiliata	Common windscheny	FACW	3 Gal/2 ft.	
		100,0	198					

Size Planted (acres):

WETLAND SEEDING - Elevations -1.0 to 1.0 All Emergent and Forested Wetlands

Seed Mix Application Rate (thu/scre)
Weibrd Seed Mix 40 LBS/ACRE

UPLANE	FORE	ST-DEC	UPLAND FOREST - DECIDUOUS- Elevations Above 1.0	tions Above 1.0	Size Planted (acres):	d (acres):		0.50
Minimum Spacing- feet on conter (OC)	Quantity per sore	E July	Species Quantity	Vegreation Strata/ Species Name	Common Name	Workand Indicator States	E SE	J
0	837			TREES				
	L	OF	46	Acermobase	Red mapic	FAC	3 Gal/4-5 ft.	
	L	ě	72	Ownros phelios	Willow oak	FACW	3 Gal/4-5 ft.	
		51	22	(heron falcata	Southern red cark	FACU	3 Gal/4-5 ft.	
		ř	72	Liquidambar straciflua	Sweet-gum	BAC	3 Gall-4 ft	
	L	51	ţ	Nyssa sylvatica	Black tupelo	byc	3 Ga1/4 ft.	
		Ý.	70	lkex opace	American holly	FAC	3 Gs1/2 ff.	
	L	9	48	Saccotrae alhidum	Securities	FACU	3 Ge1/4-5 ft	

VIZALIONY SELEDING - ALI ATRES ALDONY ELEVERIDIO I. J. DOU SECUED III INIȚIERS SUZE P. EMENCU (SECUE Sera Mit. Applemen Rate (Blace (Blace)) Applemen Method (Articles) Method
Application Rate (Bulacre)

TURFGRASS SE	EEDING	Size Plante	d (acres):	10.29
Seed Mfr.	Application Rate (Bulnere)	Application Method	Additional Notes Total Seed (Lb	Total Seed (Lbt.)
Meadow Seed Mr	230 LBS/ACRE	Hydroscod or dry broadcast spreader		2613

LAND	FORES	T-CON	FEROUS-Elev	UPLAND FOREST - CONIFEROUS- Elevations Above 1.0	Size Plant	Size Planted (acres):		0.56
Mhienen Spacing- feet on center (OC)		Quantity Frequency paracre (%)	Species Quantity	Vegetation Strata/ Species Name	Commune Name	Wethood Indicator States	TATE	Comment
2	ş			TREES				
		ş	86	Pitras toruks	Lobbly pine	FAC	3 GaU2 #	
ĺ		20	67*	Phone waymena	Virginia pero	PACU	3 Gal/2 #	
		n	29	Pinus ochbertu	Shortlenf pine	FACU	3 Gal/2 8	3qqueva
		s	21	Nymanyhatka	Black tupelo	FAC	3 Gal/4 1L	
		\$	ŽT	lkr opoca	American holly	FAC	3 Gal/2 ft.	
				SULTHS				
		3	21	yeonalio cerifera	Southern bayberry	FAC	3 Gel/2 ft.	
		100,0	246					

UPLAND	SHRUE	AREA-	AND SHRUB AREA- Elevations Above 1.0	e 1.0	Size Planted (neres)	d (acres):		6,63
Minimum Specing- feet on center (OC)		Quantity Frequency per acre (%)	Species Quantity	Vegetation Stratul Species Name	Consesses Name	Wetland Indicator Status	TVPE	Comment
8	189	20	19	Fiburnaum dentarum	Southern arrow-wood	FAC	3 Gal/2 ft.	
		20	10	Viburnum prunifolium	Smooth blackhaw	FACU	3 GeL/2 ft	
		07	19	Morella cerifera	Southern bayberry	PAC	3 Cal/2 ft	
		શ	٥١	When typhing	Staphorn stanse	4n	3 Gel/2 ft.	
		SS.	99	Aromia melanocarpa	Black chokeberry	FAC	3 Gal/2 d.	
		100.0	8					

WET	WETLAND SEEDING	SCA		Total Seeded Area = 11.58 Acres	S ACT
Ouently per sure	Prequency by Weight	Species Oy (Ba)	T A STATE	Common Name	Indicator
8					
	ន	828	Elvms virginicus	Vegera wildryc	FAC
	ន	928	Lecrain organides	Rice cut genes	OBL
	ន	9.20	Pankum vingatum	Wand panic prass	FAC
	,,	222	Dichanthelhan clandestiman	Decryoque medite grass	FACW
	2	6	Schoenoplecius pungens	Питер-нецали	FACW
	2	83	Scirpus experimen	Cottongrass Buhrah	OBIL
	64	54	Carex vnípinotiča	Common Fox sedge	FACW
	2	23	Eupatorium perfolanum	Common bonoses	FACW
	ž	2	Estrochtun dublum	Costal-plain traspetweed	FACW
	2	2	Ludwigia attemifalia	Seedbox	OBL
	2	2	Vernonia noveboracensis	New York ironweed	FACE
	2	23	Asciepian incomata	Swamp mikweed	OBI.
	*	22	Ridens cermia	Nodding Bur Mangold	OBL
	2	5	Minusiae ringense	Square stearand monkey flower	OBL
	2	9.3	Verbena hastata	Blue vervain	FAC
	8				
Total Amon	Total Amount Seed a	483			

Quendy					l
and and	Prequency by Walnut	Species	Section	Common House	Indicator
ş					
	R	153	Ehma virginicus	Varionia wildryc	FAC
	ន	15.3	Panksum virgatum	Wand penic jense	FAC
	13	11.5	Engensils speciabilis	Purple lovegrass	FACC
	1	7.6	Tridens flavus	Tall redtop genes	FACU
	ē	92	Schbachyrtum scopartum var.	Little false bluestom	FACU
	٥	П	Dichambolism clandentmum	Deer-tongue rosette grass	FACW
	2	85	Bulheckto hirta	Black-eyed Susan	FACU
	ş	3.8	Pensiumon digitalis	Forgiove beardongue	FAC
	•	3.8	Solidago rugosa	Wrinkle-lest goldowod	FAC
	2004				
Total Amo	Total Amount Seed =	2			

TURF	TURFGRASS SEEDING	EEDING		Total Seeded Area = 10.27 Acres	7 Acres
Quantity per acre (fbs)	Frequency Valenty	Species Ony (De)	Species	In Common Name	Indicater Sterior
ŝ					
	8	1567.8	Festica anadhacea	Tal facue	FAC
	ន	822.6	Poo protensis	Kertneky blue grass	FACU
	g.	261.3	Годин расим	Percential tyc prass	FACU
	₽	261.3	Agrostis gigantea	Redtop grass	FACW
	81				
Total Amo.	otal Amount Seed =	C192			



NOT TO SCALE

NO. DATE APPD

DEPARTMENT OF WILMINGTON
DEPARTMENT OF PUBLIC WORKS
JEFFREY L. STARKEY COMMISSIONER
CONTRACT NO. N/A

SOUTH WILMINGTON
WETLANDS PARK
LANDSCAPING DATA PLAN

| PIE NAME | 1906 #WED dgn | 1806 | 1806 | 1806 | 1806 | 1806 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1807 | 1

ORKS WETLA
LANDSCAP