PUBLIC NOTICE
REQUEST FOR PERMISSION TO ALTER A
U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

TITLE: County of Sussex, Delaware – PS 202 Interconnect Project - Installation of Sanitary Sewer Force Main via Horizontal Directional Drilling beneath the Lewes and Rehoboth Canal Federal Navigation Channel.

PUBLIC NOTICE IDENTIFICATION NUMBER: NAP-2020-00066-85

PUBLIC NOTICE COMMENT PERIOD:

Begins: 21 February 2020
Expires: 22 March 2020

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work at or near a federal project of the United States, as described below and shown on attached figures. Written comments are being solicited from anyone having an interest in the requested alteration. Comments will become part of the U.S. Army Corps of Engineers’ (USACE’s) administrative record and will be considered in determining whether to approve the request. Comments supporting, opposing, or identifying concerns that should be considered by the USACE in its decision process are all welcome.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply USACE endorsement of the project as described.

1. REQUESTER: In compliance with 33 USC 408 (Section 14 of the Rivers and Harbors Act of 1899; hereinafter Section 408), the County of Sussex, Delaware has requested permission to install, via the Horizontal Directional Drilling (HDD) method, one (1) sanitary sewer force main beneath the Lewes and Rehoboth Canal Federal Navigation Channel.

2. LOCATION: The proposed project is located immediately south of the Route 1 road crossing in Rehoboth Beach, Sussex County, Delaware; at approximate coordinates: 38.708242°N, 75.093262°W (NAD 83).

3. LOCATION MAP(S)/DRAWING(S): See attached Drawings.

4. REQUESTER’S PROPOSED ACTION: Install, via the HDD method, one (1) approximately 1,025.0-foot long, 8.0-inch-diameter, sanitary sewer force main to approximately 25.0-feet beneath the existing floor of the Lewes and Rehoboth Canal Federal Navigation Channel from upland entry and exit pits.
5. REGULATORY AUTHORITY: This request will be reviewed according to the provisions of Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408). A requestor has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), Section 404 of the Clean Water Act (33 USC Section 1344) and/or Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413). Any Section 10/404/103 permit decision associated with the proposed alteration is separate from and will not be included in the Section 408 permission decision. An approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.

6. ENVIRONMENTAL COMPLIANCE: A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the Philadelphia District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. Based on information provided by the applicant to date, current Corps regulations governing NEPA implementation, and/or the contents of existing NEPA documentation if available, it is likely that the proposed action will be determined to be categorically excluded from the need to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS). This determination will be finalized following completion of agency coordination and prior to issuance of the Section 408 Permission Decision.

7. EVALUATION: As part of its evaluation, USACE will first make a determination that the submittal from the requestor is complete. The Philadelphia District is working closely with the requestor to ensure that all required technical plans, maps, drawings, and specifications are provided and are complete. Once the package is complete, a District-led review will be conducted to determine, in accordance with Engineering Circular (EC) 1165-2-216, whether the proposed alteration will impair the usefulness of the USACE Project or be injurious to the public interest, as follows:

   A. Impair the Usefulness of the Project Determination. The Philadelphia District’s Section 408 review team will determine if the proposed alteration will limit the ability of the federally authorized project to function as authorized, or will compromise or change any authorized project conditions, purposes or outputs.

   B. Injurious to the Public Interest Determination. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to the USACE project may have on the public interest requires a careful weighing of all those factors that are relevant in each particular case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to
approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

8. **SOLICITATION OF COMMENTS:** The USACE 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 the proposed activity. Any comments received will be considered by USACE to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are considered in making a final determination whether the proposed action will be categorically excluded from the need to prepare further NEPA documentation. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

   A. It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to the Philadelphia District Corps of Engineers, Office of Counsel to obtain copies of said materials under the FOIA.

   B. It is presumed that all parties viewing this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.

9. **COMMENT SUBMISSION AND ADDITIONAL INFORMATION:** Written comments on the described work should reference the USACE Public Notice Identification Number found on the first page of this notice. Comments must reach this office no later than the stated expiration date of the Public Notice to become part of the record and be considered in the decision. Comments or requests for additional information should be mailed or emailed to the following address:

   Email: JuanCarlos.Corona@usace.army.mil
   Mailing Address:
   U.S. Army Corps of Engineers
   Philadelphia District
   ATTN: Juan Carlos Corona
   7th Floor
   100 Penn Square East
   Philadelphia, PA 19107-3390
1. THE CONTRACTOR SHALL BE PRESENT AND ASSIST IN THE FINAL WALK INSPECTION.

2. THE CONTRACTOR SHALL NOT RESTRICT SCHOOL BUS ACCESS OR ANY EMERGENCY VEHICLES.

3. POLYETHYLENE ENCASEMENT SHALL BE USED FOR DUCTILE IRON PIPE AND FITTINGS AND ON DUCTILE IRON FITTINGS WHEN USING PVC PIPE, CONFORMING TO AWWA SPECIFICATION C105.

4. POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE AND FITTINGS:
   - The contractor shall provide a meter certified within the last year or a source-water cement grout.
   - Flushing must have sufficient flowrate to achieve a fluid velocity of 2.5 feet per minute.
   - CONTRACTOR SHALL OPEN AND CLOSE VALVES SEVERAL TIMES UNDER EXPECTED LINE PRESSURE.
   - FLUSHING SHALL CONTINUE UNTIL THREE PIPE VOLUMES HAVE PASSED THROUGH THE NEW PIPE.
   - PRESSURE TESTING:
     - Pressure test will be conducted at the test pressure.
     - Test pressure shall be maintained for at least an additional 15 minutes.
     - If the pressure drop is 3 PSI or greater but less than 5 PSI during testing, the test failed and the contractor shall continue the test for another two (2) hours. If the pressure drop over the four (4) hour period is greater than 5 PSI, the test failed and the contractor shall provide additional testing until the cause of the leakage is explored and the necessary repairs are made.

5. CONTRACTOR SHALL PROVIDE ADDITIONAL TESTING OF THE ELEMENTS AS NOTED:
   - CONTRACTOR SHALL PROVIDE A METER CERTIFIED WITHIN THE LAST YEAR OR A SOURCE-WATER CEMENT GROUT.
   - FLUSHING MUST HAVE SUFFICIENT FLOW RATE TO ACHIEVE A FLUID VELOCITY OF 2.5 FEET PER MINUTE.
   - CONTRACTOR SHALL OPEN AND CLOSE VALVES SEVERAL TIMES UNDER EXPECTED LINE PRESSURE.
   - FLUSHING SHALL CONTINUE UNTIL THREE Pipe VOLUMES HAVE PASSED THROUGH THE NEW Pipe.
   - PRESSURE TESTING:
     - PRESSURE TEST WILL BE CONDUCTED AT THE TEST PRESSURE.
     - TEST PRESSURE SHALL BE MAINTAINED FOR AT LEAST AN ADDITIONAL 15 MINUTES.
     - IF THE PRESSURE DROP IS 3 PSI OR GREATER BUT LESS THAN 5 PSI DURING TESTING, THE TEST FAILED AND THE CONTRACTOR SHALL PROVIDE ADDITIONAL TESTING UNTIL THE CAUSE OF THE LEAKAGE IS EXPLORED AND THE NECESSARY REPAIRS ARE MADE.

6. CONTRACTOR SHALL PROVIDE ADDITIONAL TESTING OF THE ELEMENTS AS NOTED:
   - CONTRACTOR SHALL PROVIDE A METER CERTIFIED WITHIN THE LAST YEAR OR A SOURCE-WATER CEMENT GROUT.
   - FLUSHING MUST HAVE SUFFICIENT FLOW RATE TO ACHIEVE A FLUID VELOCITY OF 2.5 FEET PER MINUTE.
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HORIZONTAL DIRECTIONAL DRILLING UTILITY CONSTRUCTION NOTES

PROFESSIONAL ENGINEER IN THE STATE OF DELAWARE AND APPROVED BY OWNER BEFORE

DESCRIBES THE PILOT HOLE, HOLE OPENING AND PULLBACK PROCEDURES. AT A MINIMUM, THE
DRILLING (HDD) CONSTRUCTION METHODS AS SHOWN ON THE CONTRACT DRAWINGS,
OWNER AND ENGINEER. THIS PLAN SHALL BE DESIGNED AND SEALED BY A LICENSED
GEOTECHNICAL INVESTIGATIONS HAVE BEEN COMPLETED THROUGHOUT THE PROJECT AREA
SUPERVISORS AND PERSONNEL. A PRELIMINARY BORE-PATH HAS BEEN EVALUATED TO DEFINE
STRINGING AREA, ROLLER SPACING, GUIDELINES FOR THE BENTONITE PROPERTIES (I.E.,
WORK.

1. DIRECTIONAL DRILLING/BORING OPERATIONS SHALL USE TECHNIQUES OF
2. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE AND MAINTAIN INSTRUMENTATION THAT WILL
3. DRILLING SHALL BE ACCOMPLISHED WITH FLUID ASSISTED MECHANICAL CUTTING.
4. THE DRILL RIG ENTRY PAD SHALL BE GRADED AS SHOWN ON THE CONSTRUCTION
5. MIX DESIGN

1. IN ADDITION TO NOTIFYING "MISS UTILITY OF DELMARVA / 811" FOR UTILITY
2. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS MEANS AND METHODS OF HDD
3. CONSISTENCY SHALL BE TESTED BY FILLING AN OPEN-ENDED 3 INCHES DIAMETER
4. THE CONTRACTOR SHALL USE A SWIVEL ASSEMBLY TO CONNECT THE PULL SECTION.
5. IF THERE IS A CONFLICT BETWEEN THE MANUFACTURER'S RECOMMENDATIONS AND THE
100% DESIGN
NOTE:
CB
BH-1
CB-93
Upon completion of drill Contractor shall fully bore path.

This document shall not be used for Project Check Sheet No.

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100% DESIGN
NOTES:

1. THIS IS A MINIMUM PATCH. IF THE EXISTING ROADWAY HAS A HEAVIER CROSS SECTION THAN SHOWN HERE, IT SHALL BE REPLACED WITH THAT CROSS SECTION, OR AS DIRECTED BY THE ENGINEER.

2. ADAPTED FROM DEL DOT STANDARD DETAIL P-4 (2013)

3. 2" MIN. PAVEMENT SURFACE OVERLAY SHALL BE DELDOT MIX 76-22, #401807 (160 C 76-22)

4. PATCH SHALL MATCH EXISTING ASPHALT PAVEMENT. TYPE B BINDER THICKNESS SHALL BE INCREASED TO 5" DEPTH AND PLACED IN TWO LIFTS, A 2" AND 3" LIFT FOR COMPACTION.

5. SEE TRENCH DETAIL

6. PLACE HOT MIX TO THE TOP OF THE EXISTING ROADWAY. USE BCBC UP TO 2" BELOW EXISTING GRADE AND PAVE 2" TYPE "C" HOT MIX OVER PATCH.

2" MIN. TYPE C HOT MIX OVERLAY (THICKNESS TO MATCH EXISTING)

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2" MIN. TYPE C HOT MIX OVERLAY (THICKNESS TO MATCH EXISTING)
1. ALL EROSION AND SEDIMENT CONTROL PLANS SHOWN CONFORM TO THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK REV. 7. APPROVED PLANS REMAIN VALID FOR FIVE YEARS FROM DATE OF APPROVAL.

2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE HELD TO DISCUSS ALL ASPECTS OF THE CONTRACT AS RELATED TO SEDIMENT AND STORMWATER CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.

3. PRIOR TO THE START OF CONSTRUCTION, FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.

4. SPOILS, STOCKPILED OR EXCAVATED MATERIAL MAY BE DISCHARGED INTO WETLANDS REGULATED BY THE ARMY CORPS OF ENGINEERS OR THE STATE OF DELAWARE.

5. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY DEVIATION FROM THESE PLANS.

6. THE FINAL AUTHORITY FOR ALL WETLANDS RELATED ISSUES REST WITH THE UNITED STATES ARMY CORPS OF ENGINEERS.

7. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS IN THE APPROVED PLAN. THE CONTRACTOR IS NOT RELIEVED OF ITS RESPONSIBILITY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.

8. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, THE DESIGNER IS RECOMMENDED TO ATTEND.

9. THE DESIGNER IS REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS NOT RELIEVED OF ITS RESPONSIBILITY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.

10. PRIOR TO SEEDING, THE CONTRACTOR SHALL HAVE SOILS TEST TO DETERMINE LIME AND FERTILIZER REQUIREMENTS. LIME IS RECOMMENDED, UPTO THREE TIMES AS MUCH AS NEEDED TO REACH pH 7.0. TEST SOILS TO DETERMINE NITROGEN REQUIREMENTS.

11. IF MINOR FIELD ADJUSTMENTS ARE NEEDED, THE CONTRACTOR MUST GET APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR.

12. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, THE DESIGNER IS RECOMMENDED TO ATTEND.

13. WHEN SLOPES ARE 3:1 OR GREATER, EROSION CONTROL MATTING IS REQUIRED.

14. NO SPOILS, STOCKPILED OR EXCAVATED MATERIAL MAY BE DISCHARGED INTO WETLANDS REGULATED BY THE ARMY CORPS OF ENGINEERS OR THE STATE OF DELAWARE.

15. WHEN SLOPES ARE 4:1 OR GREATER, EROSION CONTROL MATTING OR OTHER APPROVED MATERIALS ARE REQUIRED.

16. EROSION AND SEDIMENT PRACTICES, AND SITE IN GENERAL, MUST BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT, BY THE CONTRACTOR OR RESPONSIBLE PERSON, AND ANY NEEDED MAINTENANCE PERFORMED IMMEDIATELY.
### Sussex County
#### PS 202 Interconnect

**Drafting**

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**Check**

- 0: T. DAHMER W. WHEELER
- 1: W. WHEELER K. GEORGE

**Design**

- L. BENNETT JANUARY 2020

**Issue No.**

- A ISSUED FOR 30% REVIEW TED WWW 08/22/19
- B ISSUED FOR 60% REVIEW TED WWW 09/12/19
- C ISSUED FOR 90% REVIEW TED WWW 10/02/19
- D ISSUED FOR 100% REVIEW TED WWW 01/24/20

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**Construction Site Waste Mgt & Spill Control**

**Notes:**

- This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.

**Scale:**

- NTSC

**Date:**

- 11/18/19

**Contractor Information:**

- GHD Inc.
- 16701 Melford Boulevard, Suite 330
- Bowie MD 20715 USA
- T 1 240 206 6810
- F 1 240 206 6811
- W www.ghd.com

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**Location of Sensory Area Protection**

**Methods of Sensory Area Protection**

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**Erosion and Sediment Control Details**

**Sheet 1 of 3**

**100% DESIGN**

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### Plot Details

- Plot Date: 24 January 2020
- Filename: P:\Drawings\10000000s\11186880 - Sussex County\Pump Station Interconnect\CADD\Drawings\Civil\111-86880-C010.dwg
- Plotted By: Tom Dahmer

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### Construction Notes

- This document shall not be used for construction unless signed and sealed for construction.

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### Reuse of Documents

- This document and any ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.

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### Plot Information

- Bar is one inch on original size sheet

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### Plot Date

- 24 January 2020

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### Plot Filename

- P:\Drawings\10000000s\11186880 - Sussex County\Pump Station Interconnect\CADD\Drawings\Civil\111-86880-C010.dwg
Standard Detail & Specifications
Geotextile Dewatering Bag

Construction Notes:
1. The dewatering bag contains a geotextile placed between the two layers of the bag and is filled with the liquid to be drained from the site. The bag is placed on the ground and the liquid is allowed to drain through the bag.
2. The bag is made of a geotextile material that allows the liquid to pass through while retaining the solid particles.
3. The bag is designed to be used in areas where the liquid needs to be drained without disturbing the surrounding soil.

Profile

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Profile

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Profile

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<tr>
<th>Thickness</th>
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<td>0.5 g/cm³</td>
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Profile

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<tr>
<th>Volume</th>
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<tbody>
<tr>
<td>5000 gallons</td>
<td>10 gpm</td>
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Profile

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<tr>
<th>Material</th>
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<tbody>
<tr>
<td>Geotextile</td>
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Profile

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<tr>
<td>Sediment control</td>
<td>Effective in reducing sediment and erosion</td>
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Profile

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<tr>
<td>Sussex County</td>
<td>PS 232 Interconnect</td>
<td>Erosion and Sediment Control Details</td>
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