



DEPARTMENT OF TRANSPORTATION

ADDITIONS / REVISIONS

SCALE: 1/8" = 1'-0"

CONSULTANT: WHITMAN, REARDOT & ASSOCIATES, LLP

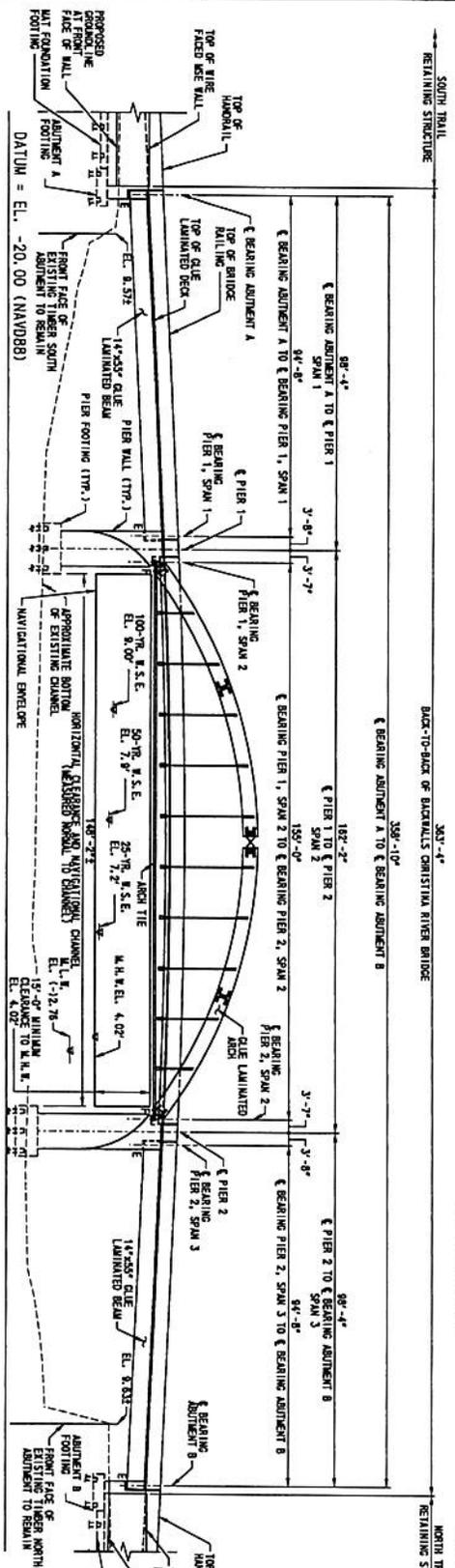
BRIDGE NO. X  
COUNT

SHEET NO. 2 OF 3  
TOTAL SHEETS

INDUSTRIAL TRACK TRAIL BRIDGE  
OVER WILMINGTON CHRISTINA RIVER  
(NEW CASTLE COUNTY)  
FINAL PLANS 12/11/2015

ELEVATION

SCALE: 1/8" = 1'-0"



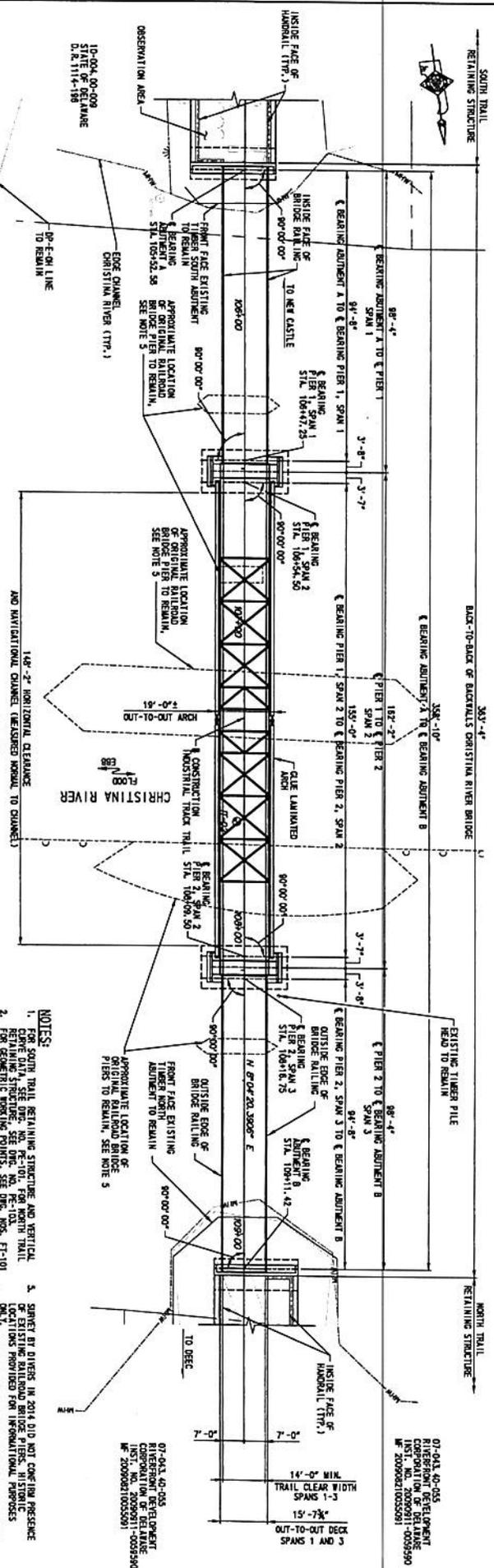
SOUTH TRAIL  
REMAINING STRUCTURE

BACK-TO-BACK OF BLACKWALTS CHRISTINA RIVER BRIDGE

NORTH TRAIL  
REMAINING STRUCTURE

PLAN

SCALE: 1/8" = 1'-0"



SOUTH TRAIL  
REMAINING STRUCTURE

BACK-TO-BACK OF BLACKWALTS CHRISTINA RIVER BRIDGE

NORTH TRAIL  
REMAINING STRUCTURE

NOTES:

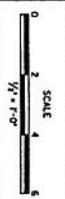
1. SOUTH TRAIL REMAINING STRUCTURE AND VERTICAL CURVE DATA TO BE VERIFIED BY THE CONTRACTOR. SEE DRAWING FOR REMAINING STRUCTURE. SEE DOWNS FOR REMAINING STRUCTURE. SEE DOWNS FOR REMAINING STRUCTURE.
2. FOR GEOMETRIC WORKING POINTS, SEE DOWNS. SEE DOWNS FOR GEOMETRIC WORKING POINTS, SEE DOWNS. SEE DOWNS FOR GEOMETRIC WORKING POINTS, SEE DOWNS.
3. SURVEY BY OTHER IN 2014 DID NOT CONFIRM PRESENCE OF REMAINING STRUCTURE. SEE DOWNS FOR REMAINING STRUCTURE. SEE DOWNS FOR REMAINING STRUCTURE.
4. ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE FOR INFORMATIONAL PURPOSES ONLY.
5. APPROXIMATE LOCATION OF ORIGINAL RAILROAD BRIDGE PIERS TO REMAIN. SEE NOTE 5.
6. ONLY DIMENSIONED VESSES (VTV) PER ASSAY LB97 7TH EDITION, 2014. UNBID OPEN WATER BRIDGE (LEFT) BRIDGE LOWER DISPLACEMENT + 200K. DESIGN COLLISION ON M.H.W. MEAN HIGH WATER. M.H.W. + 2' MEAN HIGHER WATER. MEAN HIGH WATER CLEARANCE ESTABLISHED BASED ON M.H.W. FREEDOM.

07-043-10-002  
BROGELSCO  
CORPORATION OF DELAWARE  
1811 N. NO. 20090911-002590  
# 200909110025901

07-043-10-002  
BROGELSCO  
CORPORATION OF DELAWARE  
1811 N. NO. 20090911-002590  
# 200909110025901

**DELAWARE**  
DEPARTMENT OF TRANSPORTATION

APPENDIX 7 / REVISIONS



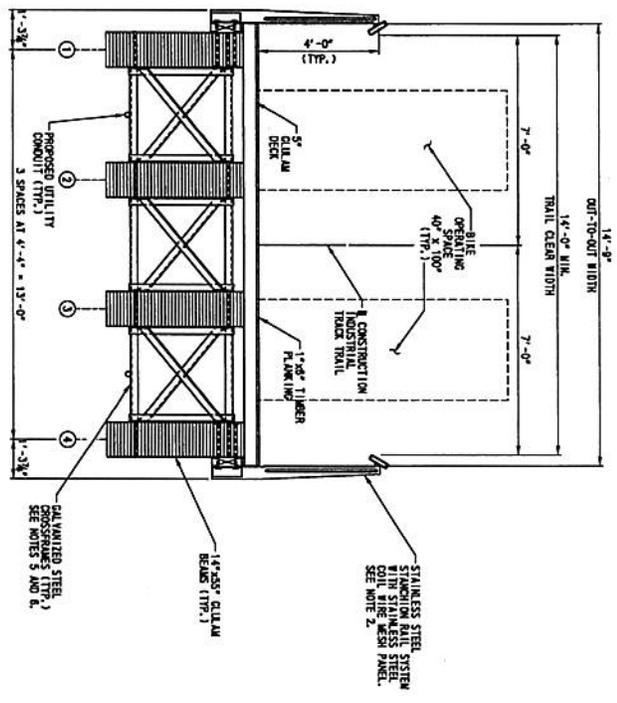
CONSULTANT: WHITMAN, TREVINO & ASSOCIATES, LLP

CONTRACT	BRIDGE NO.	<b>X</b>
CHART	DESIGNED BY: MAH	
ORDERED BY: WAD		

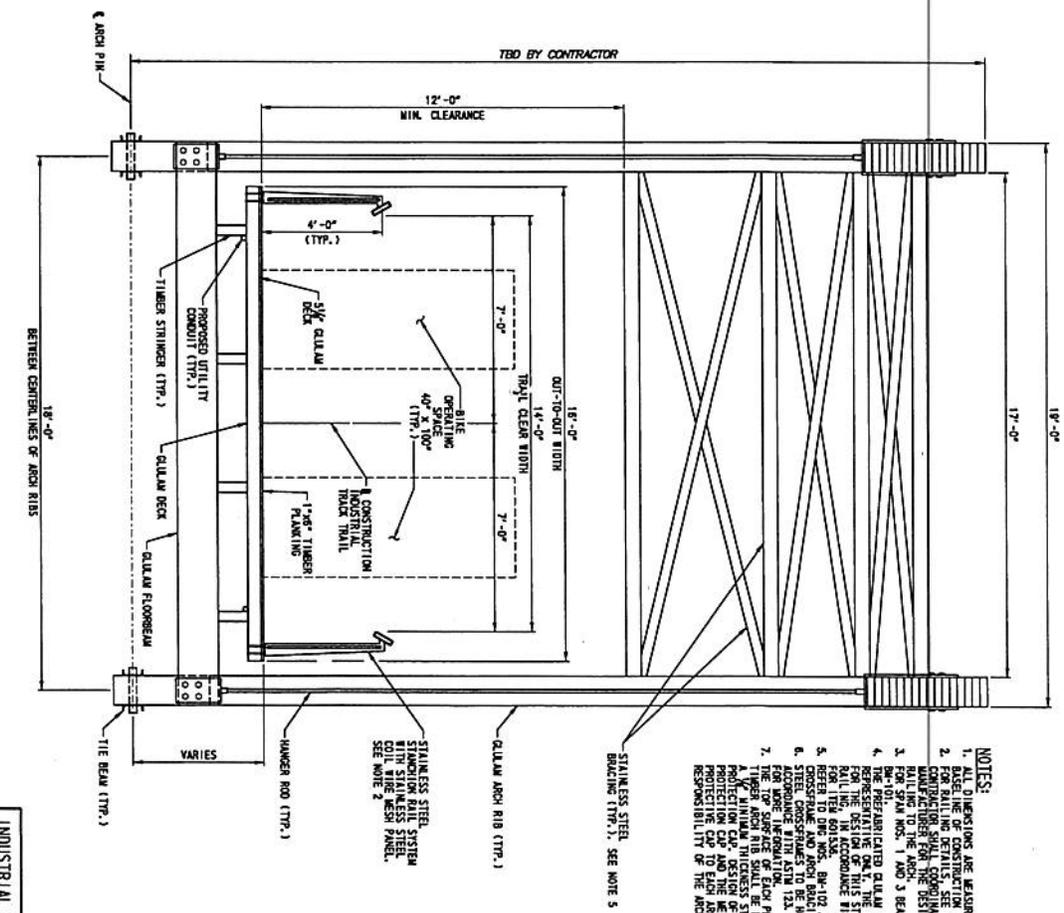
TYPICAL SECTIONS

SHEET NO.	3 OF 3
TOTAL SHEETS	

TYPICAL SECTION - SPANS 1 AND 3  
SCALE 1/4"=1'-0"



TYPICAL SECTION - SPAN 2 (GLULAM ARCH)  
SCALE 1/4"=1'-0"



- NOTES:**
1. ALL DIMENSIONS ARE MEASURED PERPENDICULAR TO THE BASE LINE OF CONSTRUCTION INDUSTRIAL TRACK TRAIL.
  2. FOR RAILING DETAILS SEE DET. NO. 18-101, THE MANUFACTURER'S SPECIFICATIONS AND THE DESIGN AND ATTACHMENT OF THE RAILING TO THE ARCH. 3 BEAM ELEVATIONS, SEE DET. NO. 18-101 AND 18-102.
  3. THE PREFABRICATED GLULAM ARCH SPAN IS REPRESENTATIVE OF THIS CONSTRUCTION AND IS RESPONSIBLE FOR THE DESIGN AND ATTACHMENT OF THE RAILING TO THE ARCH. 3 BEAM ELEVATIONS, SEE DET. NO. 18-101 AND 18-102.
  4. THE TOP SURFACE OF EACH PREFABRICATED GLULAM ARCH SPAN SHALL BE PROTECTED WITH STAINLESS STEEL PROTECTION CAP AND THE METHOD OF ATTACHMENT OF THE PROTECTION CAP SHALL BE THE RESPONSIBILITY OF THE ARCH FABRICATOR.
  5. STEEL CROSSMEMBERS TO BE NOT-DIPPED GALVANIZED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR THE BRIDGE.
  6. CROSSMEMBERS AND ARCH BRACING AND BR-102 FOR MORE INFORMATION REFER TO DRAWING BR-102.
  7. THE TOP SURFACE OF EACH PREFABRICATED GLULAM ARCH SPAN SHALL BE PROTECTED WITH STAINLESS STEEL PROTECTION CAP AND THE METHOD OF ATTACHMENT OF THE PROTECTION CAP SHALL BE THE RESPONSIBILITY OF THE ARCH FABRICATOR.

INDUSTRIAL TRACK TRAIL BRIDGE  
OVER CHRISTINA RIVER  
MILE 5.25  
AT WILMINGTON, DELAWARE  
(NEW CASTLE COUNTY)  
FINAL PLANS 12/11/2015

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commander  
United States Coast Guard  
Fifth Coast Guard District

431 Crawford Street  
Portsmouth, Va. 23704-5004  
Staff Symbol: dpb  
Phone: (757) 398-6587  
Fax: (757) 398-6334  
Email: Terrance.A.Knowles@uscg.mil

16591  
16 JAN 2014

## ***PUBLIC NOTICE #5-1362***

**TO WHOM IT MAY CONCERN:** All interested parties are notified that the Commander Fifth Coast Guard District is processing an application from the Delaware Department of Transportation, (DelDOT) for the proposed construction of a new pedestrian bridge over navigable waterways of the United States.

**WATERWAY AND LOCATION:** Christina River, at mile 5.25, near Wilmington in New Castle County, DE.

**CHARACTER OF WORK:** As part of the New Castle Industrial Track Trail, DelDOT proposes to construct a new fixed pedestrian bridge over the Christina River where the railroad bridge had been removed. The bridge will be supported by concrete piles. There will be no fender system on the new bridge but the piers in the water will be designed to withstand the force of a barge impact.

**PROPOSED MINIMUM NAVIGATIONAL CLEARANCES FOR PEDESTRIAN BRIDGE:**  
Vertical Clearance – 15 feet above mean high water. Horizontal Clearance – 148 ft. between face of the pilings.

**ENVIRONMENTAL CONSIDERATIONS:** The Federal Highways Administration (FHWA) is the lead federal agency for this project for compliance under the National Environmental Policy Act. A Categorical Exclusion determination was approved by FHWA on September 25, 2015. The document is available for review at the office of the Commander (dpb), Fifth Coast Guard District Federal Building, on the 1<sup>st</sup> Floor, at 431 Crawford Street, in Portsmouth, VA 23704-5004. The 100-year flood elevation is 9.00 feet. DelDOT intends to bridge the river by placing two piers in the waterway. The bridge will be constructed such that wetland impacts are minimized. Due to coordination with the Delaware Department of Natural Resources (DNREC) construction procedures will be utilized which minimize impacts to potential populations of anadromous fishes with no in-water work or pile driving being conducted between March 15 and June 30, the typical spawning season for several species. DelDOT has applied for a Joint Federal/State Application. This project was approved by the Army Corps of Engineers (USACE) under their Nationwide Permit #23 which includes DNREC's Coastal Zone Management (CZM) consistency determination and Water Quality Certification.

**ENDANGERED/THREATENED SPECIES:** The US Fish and Wildlife Service (FWS) and the National Marine Fisheries Service completed the Endangered Species Act (ESA) Section 7 consultation and concurred with DelDOT that authorization of the project was not likely to adversely affect any species listed by either agency as threatened or endangered under the ESA of 1973, as amended. All interested parties should comment if any listed species or potentially listed species, are present in the proposed project area. A review of other protected species during the process resulted in locating a Bald Eagle nest at the Russell Petersen Wildlife Refuge

in March 2015. FWS indicated that due to the inactive nest that the proposed project would not require an eagle disturbance permit.

**ESSENTIAL FISH HABITAT:** National Marine Fisheries Service stated that project impact to Essential Fish Habitat to be no more than minimal.

**WETLANDS:** This project was approved by USACE under Nationwide Permit #23. There will be approximately 0.018 acres of permanent open water impacts due to the bridge pier foundations and approximately 0.0043 acres of USACE permanent wetland impact due to concrete pier columns for proposed bridge/elevated walk way.

**HISTORIC PROPERTIES:** Delaware State Historic Preservation Officer reviewed the project and concurred that no historic properties eligible for or listed in the National Register of Historic Places would be affected by the proposed project

**ENVIRONMENTAL JUSTICE:** Based upon environmental documentation submitted for this project, it appears that the proposed bridge project will have no adverse environmental justice impacts upon minority and low-income populations. Information and data contrary to this no-adverse-impact position should be submitted in response to this notice.

**SOLICITATION OF COMMENTS:** Interested parties are requested to express their views, in writing, on the proposed construction of the bridge giving sufficient detail to establish a clear understanding of their reasons for support of or opposition to the proposed project. Comments will be received for the record at the office of the Commander (dpb), Fifth Coast Guard District, Federal Building, 431 Crawford Street, Portsmouth, VA 23704-5004 through 15 FEB 2016. Copies of location maps and plans are attached.

//s//

HAL R. PITTS  
Bridge Program Manager  
By direction of the Commander  
Fifth Coast Guard District

**This is a web-searchable copy and is not the official, signed version; however, other than the signature being omitted, it is a duplicate of the official version.**