STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
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DOVER, DELAWARE 19903

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GOVERNOR

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VIA WEBSITE POSTING

February 4, 2016

Contract No. T201507407.01
Federal Aid Project No. BHN-N056(43)
BR 1-717 On I-95 NB Over SR1
New Castle County

Ladies and Gentlemen:

Enclosed is Addendum No. 1 for the referenced contract consisting of the following:

1. One (1) page, Bid Proposal Cover revised, to be substituted for the same page in the Proposal.
2. One (1) page, Table of Contents, page vi, revised, to be substituted for the same page in the Proposal.
3. The following Special Provision, on pages 130-132 has been deleted: 743501.
4. One (1) page, Special Provision 601502 -Temporary Protective Shield, pages 67-68 revised, to be substituted for the same pages in the Proposal.
5. One (1) page, Special Provision 605522 -Urethane Paint System, Existing Steel, page 86 revised, to be substituted for the same page in the Proposal.
6. Quantities have been changed on the following item numbers:
743004,743006,743015,743024
7. The following bid item has been deleted from the Bid Proposal Forms:
743501.
8. The following bid items have been added to the Bid Proposal Forms:
743013, 743023.
9. Bid pages 2, 3,4, 5 have been revised, to be substituted for the same pages in the Proposal.
10. Two (2) pages, Plan Sheet 7 of 65 and 11of 65, revised, to be substituted for the same pages.
11. Expedite File, Addendum No. 1.

Please note the revision listed above and submit your bid based upon this information.

Sincerely,

signature on file

James H. Hoagland
Contract Services Administrator

:jhh
Enclosure

Addendum No. 1
February 4, 2016

STATE OF DELAWARE

DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT T201507407.01

FEDERAL AID PROJECT NO. BHN-N056(43)

BR 1-717 ON I-95 NB OVER SR1

NEW CASTLE COUNTY

ADVERTISEMENT DATE: January 11, 2016

COMPLETION TIME: 74 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DELAWARE DEPARTMENT OF TRANSPORTATION
AUGUST 2001

Bids will be received in the Bidder's Room at the Delaware Department of Transportation's Administration Building, 800 Bay Road, Dover, Delaware until 2:00 P.M. local time **February 9, 2016**

743501 - WARNING LIGHTS, TYPE B
743504 - WARNING SIGNS
743507 - TEMPORARY BARRICADES, TYPE III
743525 - TEMPORARY WARNING SIGNS

Description:

This work consists of furnishing, installing and maintaining these temporary traffic control devices in accordance with the contract documents and with the latest edition of the manual titled "Delaware Manual on Uniform Traffic Control Devices (MUTCD)," hereafter referred to as the "Delaware MUTCD", including all revisions as of the date of the advertisement of this Contract and as directed by the Engineer.

As required under the section entitled "Certification" temporary traffic control devices shall be crashworthy in accordance with the National Cooperative Highway Research Program (NCHRP) Report 350, the memorandum issued August 28, 1998 by The USDOT Federal Highway Administration, and/or in accordance with the latest edition of the Manual for Assessing Safety Hardware (MASH), published by the American Association of State Highway and Transportation Officials (AASHTO). In case of conflict between the Delaware MUTCD and the requirements of NCHRP Report 350 and/or MASH, the requirements of NCHRP Report 350 and/or MASH shall govern.

Materials and Construction Methods:

Materials and construction of all signs and barricades shall meet all requirements including retroreflectorization of the Delaware MUTCD.

Unless specified on the Plans, all temporary traffic control devices shall be either new or restored to a satisfactory condition. All reconditioned and/or restored temporary traffic control devices must be approved by the Engineer before their use. Bases of warning signs, when required, shall be weighted with sandbags to resist overturning.

Lane closures necessary for the installation of barricades and the placement of other temporary traffic control devices shall be in accordance with the requirements of the Delaware MUTCD. Type III barricades shall have a minimum width of 4' and shall be placed in accordance with the applicable sections of the Delaware MUTCD. Type B warning lights with yellow lenses shall be placed above all diversion barricades as shown on the plans or as directed by the Engineer. Type B warning lights with red lenses shall be placed above all closure barricades as shown on the plans or as directed by the Engineer. Type B warning lights shall not be used for any other purpose except as described above.

Temporary traffic protection devices shall be suitably maintained at all times. Such maintenance shall include washing sign faces, replacing deficient batteries and lights, aligning lights properly, replacing retroreflective materials, relocating barriers, and any other maintenance of traffic protection devices deemed necessary by the Engineer to maintain traffic in a safe and effective manner.

Warning signs and temporary warning signs shall be retroreflective and shall have rounded corners as per FHWA publication "Standard Highway Signs". Warning signs shall be installed in accordance with the applicable sections of the Delaware MUTCD.

For purposes of measurement and payment the following definitions for signs shall apply:

> Warning Signs (Item 743504) are those signs that are generally permanently installed at the beginning of a sustained construction phase (i.e., a construction phase exceeding 24 hours) and/or at the beginning of the project and shall remain in place for the duration of the sustained phase and/or project.

Temporary Warning Signs (Item 743525) are those signs erected for a particular operation or phases of the project that do not exceed 24 hours and may remain in place just during working hours such as "Flagger Ahead" signs.

Any permanent warning signs used on the project shall be securely mounted on break away supports such that the supports are installed in the ground per the sign post manufacturers recommendations. Permanent warning signs shall not be mounted on portable sign stands except in the following situations:

- Any signs that are placed on a concrete island in the median of a divided highway may be mounted on portable sign stands with proper ballasting material in order to avoid drilling through the concrete to ground mount the sign.
- If a documented utility conflict exists and field adjustments to the sign location cannot be made, the sign may be mounted on a portable sign stand with proper ballasting material. Documentation of the utility conflict shall be provided to the Engineer.

All holes or trenches within paved roadways or sidewalks which could not be practically backfilled and paved prior to restoring the area to traffic, shall be covered by protective covers consisting of temporary steel plates, furnished, installed and secured in place by the Contractor at no extra cost to the Department.

All temporary traffic control work and related items shall either be performed entirely by the Contractor's own organization or totally subcontracted. Maintenance of the equipment shall not be subject to this requirement.

Certification:

Temporary traffic control devices used on all highways open to the public in this State shall conform to the Delaware MUTCD. All devices shall be crashworthy in accordance with the National Cooperative Highway Research Program (NCHRP) Report 350, the memorandum issued August 28, 1998 by The USDOT Federal Highway Administration, and/or in accordance with the latest edition of the Manual for Assessing Safety Hardware (MASH), published by the American Association of State Highway and Transportation Officials (AASHTO).

The Contractor shall submit certification for temporary traffic control devices used specifically on this project at or prior to the pre-construction meeting.

Certification of compliance with NCHRP report 350 and/or MASH is required for the following categories of temporary traffic control devices:

Category I contains small and lightweight channelizing and delineating devices, which includes cones, tubular markers, flexible delineator posts and drums, all without any accessories or attachments.

Category II includes temporary traffic control devices that are not expected to produce significant vehicular velocity changes to impacting vehicles. These devices, which shall weigh 45 kg (100 lbs.) or less, include Type III barricades, portable sign supports with signs, and intrusion alarms. Also included are drums, cones, and vertical panels with accessories or attachments.

For Category I devices, the manufacturer or Contractor may self-certify that the devices meet the NCHRP-350 and/or MASH criteria. The Contractor shall supply the Federal Highway Administration 2000, that have not been crash tested in accordance with NCHRP that falls under Category II and III devices.

Method of Measurement:

Temporary Barricades, Type III erected by the Contractor shall be measured in unit of L.F./Day furnished and used as required and approved by the Engineer.

Warning Lights, Type B will be measured in units of Each/Day furnished and used, and approved by the Engineer.

Warning Signs shall be furnished and erected by the Contractor and measurement shall be made per Each for the duration of the sustained phase and/or project. Temporary Warning Signs shall be measured in unit of Each/Day furnished and erected.

Basis of Payment:

The number of temporary barricades measured as described above, shall be paid for at the Contract unit price bid per L.F./Day barricade for the item "Temporary Barricades, Type III" which prices and payments shall be full compensation for providing certification, furnishing, placing, maintaining, and relocating the barricades as required, all labor, equipment, tools, and all incidentals necessary to complete the work. Barricades stolen or damaged shall be replaced at the Contractor's expense.

The number of each type of warning lights measured as described above shall be paid for at the Contract unit price bid per Each/Day for the item, "Warning Lights, Type B" as required by the Contract, which prices and payments shall be full compensation for providing certification, furnishing, placing, maintaining and relocating the lights, all labor, equipment, tools, and all incidentals necessary to complete the work. Warning lights stolen or damaged shall be replaced at the Contractor's expense.

The number of Warning Signs, measured as described above, shall be paid for at the Contract unit price bid per Each for the item, "Warning Signs", and the Contract unit price bid per Each/Day for "Temporary Warning Signs" which prices and payments shall be full compensation for providing certification, furnishing, placing, maintaining, and relocating warning signs, and any temporary sign supports, hardware, materials and all labor, equipment, tools, and incidentals necessary to complete the work. Signs stolen or damaged shall be replaced at the Contractor's expense.

Payment for traffic control devices shall be based on the Contractor's daily certification, on a Department's form, that the number of temporary traffic control devices are fully operational (i.e., lights working, signs in good legible condition and in their proper position).

03/04/2010

601502 - TEMPORARY PROTECTIVE SHIELD

Description:

This work consists of furnishing all materials and installing a temporary protective shield at the locations described and in conformance with the details and notes on the Plans, as described in these Special Provisions, and/or as directed by the Engineer.

Protective shield is currently in place on Bridge 1-717 between ~~stringers 13 and 26 in spans L, M, N and P. The contractor shall provide additional shielding under the median and along the south fascia as specified herein~~ stringers 13 and 24 in spans M and N. The contractor shall also maintain the existing timber shielding during construction which shall consist of 1) examination and replacement of any damaged/deteriorated timbers in-kind and 2) elimination of any openings through which debris or construction materials may fall.

Materials and Construction Methods:

In order to protect vehicular traffic against damage from falling material, debris, and other demolition operations, while superstructure concrete is being removed, the Contractor shall furnish and erect temporary protective structures under the work area and 5' (1.5 m) minimum beyond all sides of full depth concrete deck removed.

The Protective Structures shall meet with the following:

1. The shields shall be supplemented with such additional suitable enclosures of tarpaulins or wire mesh as may be necessary in order to insure against the dropping of materials, tools, equipment, and other objects below the level of the shield.

2. Broken concrete and other debris shall not be allowed to accumulate on the shields, but shall be removed promptly. The shields shall not be used for storing or stockpiling construction materials.

3. Timber shall have an allowable flexure stress of 1600 psi (11 MPa) and the shield must be designed for 100 lb/sq. ft. (5 kPa) live load and a 60 mph (100 km/hr) wind load.

4. All plywood shall be new and shall be not less than 3/4" (19 mm) thick.

5. Bolts, nuts, washers, structural steel, etc. shall conform to Section 601 of the Standard Specifications.

6. The shield shall be assembled by means of bolts and nails, all as approved by the Engineer.

7. The flooring and siding of the shield shall have no cracks or openings through which material particles may fall.

8. The Contractor shall submit shop drawings for the shields, including erection plans, to the Engineer for approval, prior to the start of the work.

9. All connections of the protective structures to the steel work of existing bridge shall be made by means of clamps or other approved devices. The drilling of holes in the existing steel work, or welding thereto, will not be permitted.

10. Unless otherwise noted on the Plans, the minimum underclearance over roadways (pavement and shoulder) shall be as follows:

    14.5′ (4.42 m) for interstate and other controlled access highways

    14.0′ (4.27 m) for all other roadways

No portion of the temporary shield (including connection devices) shall encroach on under clearances.

11. The Contractor shall design the temporary protective shield system and submit the design sealed by Professional Engineer registered in the State of Delaware prior to commencing work. No additional payment will be made for this item of work regardless of type of temporary protective shield system used.

12. After protective shield has served its purpose, and approval has been given by the Engineer, the Contractor shall remove and dispose of the entire temporary protective shield, new and existing, away from the site to the satisfaction of the Engineer.

Method of Measurement:

The quantity of temporary protective shields will not be measured.

Basis of Payment:

The quantity of temporary protective shield will be paid for at the Contract lump sum price. Price and payment will constitute full compensation for furnishing all materials and performing the work as detailed and noted on the Plans, for removal and disposal of the protective shield materials, and for all labor, tools, equipment, and incidentals necessary to complete the work.

2/2/16 ~~12/10/15~~

Curing Agent:	A polyfunctional polyisocyanate resin based on Hexamethylene diisocyanate with an NCO content of 21.3 - 21.8% and an average NCO equivalent weight of 195.
Light Stabilizer:	The base component (Component A) must contain 1% of a hindered amine light stabilizer. This is calculated from the resin solids of component A and Component B.
Initial Gloss:	80%(minimum) @ 60? per ASTM D523
Solids Content:	Total solids of the mixed product will be 75.0 ± 2.0 percent by weight as determined by ASTM D 2369 using a 4 hour air dry time plus 1 hour oven dry at 110°F (43.3°C).
Pot Life:	3 hours minimum at 77°F (25°C) and 50% relative humidity
Color:	As specified in the Plans
Coverage:	3 mils (75 µm) DFT minimum
VOC:	Not to exceed 2.8 lbs/gal (0.335 kg/liter)

All M.I.O. (Micaceous Iron Oxide) filled products must conform to ASTM D5532, Type I and have a certification of conformance from the Raw Materials Manufacturer. Each single coat of paint shall be a color different from the others. The color of the primer and intermediate coat shall be at the Contractor's option, and shall provide contrast with the underlying substrate or previously applied pant. The color of the finish paint shall be as specified in the Contract Plans.

A moisture-cured polyurethane topcoat will be acceptable provided the manufacturer submits data showing a 70% minimum gloss after 24 months exposure in southern Florida on panels facing due south at 45° from the horizon on a color the same or similar to the ones in the Plans.

The coatings manufacturer shall supply, in writing, the minimum and maximum recoat times of the primer and intermediate coat. If the Contractor fails to complete the painting during these established time periods, the surface area shall be cleaned at the Contractor's expense if necessary as determined by the Engineer.

Basis of Acceptance - All components of the system (primer, intermediate and finish coats) will be accepted on the basis of the manufacturer's written certification that the batch(s) produced meets their product specification and this Item. In addition, the Contractor shall submit a 1 quart (liter) sample of each component of the system (primer, intermediate and finish coats) to the DelDOT Materials and Research Section (call (302) 760-2401 for details) 30 days prior to the start of painting. The samples submitted shall be from paint to be used on the bridge with the same batch numbers and shall be labeled with the manufacturer's name, product name, component part, batch number, date of manufacture, and the bridge on which it is to be used. The Department will perform testing on the paint submitted. The Department reserves the right to take random samples of the paint at anytime during the construction and application.

Only paint arriving on the site in new, unopened containers shall be used. Containers of paint shall be labeled with the manufacturer's name, product name, component part, batch number, date of manufacture, and shelf life date. Paint in containers having expired shelf life dates shall be immediately removed from the work site.

Construction Methods:

All structural steel ~~members, railings, fascia, downspouts and other miscellaneous steel items that have previously been painted shall~~ described above shall be cleaned and painted.

Surface Preparation - Surfaces to be cleaned shall be identified in the following manner:

Blast clean surfaces for total removal in accordance with Item 605533. Pressure wash surfaces for overcoating in accordance with Item 605622.

DELAWARE DEPARTMENT OF TRANSPORTATION PAGE: 2
SCHEDULE OF ITEMS DATE:

CONTRACT ID: T201507407.01 PROJECT(S): BHN-N056(43)

All figures must be typewritten.

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0100	602733 POLYESTER POLYMER CONCRETE OVERLAY	2321.000 SYIN				
0110	604000 BAR REINFORCEMENT, EPOXY COATED	20500.000 LB				
0120	605511 PREFABRICATED EXPANSION JOINT SYSTEM, 3"	530.000 LF				
0130	618516 ULTRA HIGH PERFORMANCE CONCRETE	2302.000 CF				
0140	720050 GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	162.500 LF				
0150	720585 GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	1.000 EACH				
0160	725002 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	1.000 EACH				
0170	743000 MAINTENANCE OF TRAFFIC	LUMP	LUMP			
0180	743003 ARROWPANELS, TYPE C	54.000 EADY				
0190	743004 FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	144.000 EADY				

DELAWARE DEPARTMENT OF TRANSPORTATION PAGE: 3
SCHEDULE OF ITEMS DATE:

CONTRACT ID: T201507407.01 PROJECT(S): BHN-N056(43)

All figures must be typewritten.

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0200	743005 FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	70.000 EADY				
0210	743006 PLASTIC DRUMS	5162.000 EADY				
0220	743010 FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.000 EADY				
0230	743015 FURNISH AND MAINTAIN PORTABLE PCC SAFETY BARRIER	2217.000 LF				
0240	743016 RELOCATION PORATBLE SAFETY BARRIER	1274.000 LF				
0250	743024 TEMPORARY WARNING SIGNS AND PLAQUES	3737.000 EADY				
0270	748019 TEMPORARY MARKINGS, PAINT, 4"	39388.000 LF				
0280	748518 BLACKOUT TAPE, 6"	12156.000 LF				
0290	748530 REMOVAL OF PAVEMENT STRIPING	359.000 SF				
0300	748548 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1656.000 LF				

DELAWARE DEPARTMENT OF TRANSPORTATION PAGE: 4
SCHEDULE OF ITEMS DATE:

CONTRACT ID: T201507407.01 PROJECT(S): BHN-N056(43)

All figures must be typewritten.

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0310	748557 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"	570.000 LF				
0320	748558 BLACKOUT TAPE, 12"	978.000 LF				
0330	748564 RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 5"	2190.000 LF				
0340	748565 RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 10"	702.000 LF				
0350	748566 RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 8"	210.000 LF				
0360	760003 PAVEMENT - MILLING, HOT-MIX, VARIABLE DEPTH	1111.000 SY				
0370	763000 INITIAL EXPENSE	LUMP	LUMP			
0380	763501 CONSTRUCTION ENGINEERING	LUMP	LUMP			
0390	905001 SILT FENCE	288.000 LF				
0400	905004 INLET SEDIMENT CONTROL, DRAINAGE INLET	3.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION PAGE: 5
SCHEDULE OF ITEMS DATE:

CONTRACT ID: T201507407.01 PROJECT(S): BHN-N056(43)

All figures must be typewritten.

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0410	743013 FURNISH PORTABLE PCC STRUCTURE MOUNTED SAFETY BARRIER	215.000 LF				
0420	743023 TEMPORARY BARRICADES, TYPE III	945.000 LFDY				
	SECTION 0001 TOTAL					
	TOTAL BID					

Addendum No. 1
February 4, 2016

BRIDGE PROJECT NOTES

1. DESCRIPTION:

THE WORK INVOLVES REPLACEMENT OF THE EXISTING C.I.P. BRIDGE DECK AND PARAPETS WITH FULL-DEPTH PRECAST CONCRETE ELEMENTS AS SHOWN HEREIN. THE CONTRACTOR MAY ELECT TO ALTER THE PROPOSED PANEL CONFIGURATIONS TO SUIT HIS REQUIREMENTS SUBJECT TO A COMPLETE SUBMISSION OF DESIGN CALCULATIONS AND DRAWINGS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE AND APPROVED BY THE ENGINEER.

2. REMOVAL OF STRUCTURES AND OBSTRUCTIONS:

ITEMS TO BE REMOVED UNDER ITEM NO. 211000 "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" ASSOCIATED WITH BRIDGE 1-717 SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
EXISTING DECK SLAB AND SHEAR CONNECTORS
EXISTING PARAPETS ON BRIDGE
EXISTING PARAPETS ON WINGWALLS ON BRIDGE APPROACHES
EXISTING DECK JOINTS

⚠3. DEMOLITION:

THE CONTRACTOR SHALL PREVENT DEBRIS FROM FALLING INTO THE AREAS BELOW THE BRIDGE SUCH AS THE MEDIANS AND ROADWAYS. CONTRACTOR SHALL CONSTRUCT ADEQUATE PROTECTIVE SHIELDS TO PREVENT DEBRIS FROM FALLING FROM THE BRIDGE. THE CONTRACTOR SHALL PROMPTLY REMOVE FALLEN DEBRIS TO THE SATISFACTION OF THE ENGINEER. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.

TIMBER SHIELDING CURRENTLY EXISTS BETWEEN STRINGERS 13 AND 24 IN SPANS M AND N. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SHIELDING THROUGHOUT THE ENTIRE LENGTH OF THE BRIDGE UNDER THE BRIDGE MEDIAN, BETWEEN STRINGER 24 AND 26 AND ALONG THE SOUTH FASCIA AS WELL AS BETWEEN STRINGERS 13 AND 24 IN SPANS L AND P.

THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL SHIELDING, PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ITEM NO. 601502. EXISTING SHIELDING CURRENTLY INSTALLED SHALL BE REMOVED BY THE CONTRACTOR UPON COMPLETION.

DURING WORK THE CONTRACTOR SHALL USE CARE TO COLLECT ALL DEBRIS AND WATER USED FOR CONSTRUCTION PROMPTLY AND PREVENT ANY POLLUTION OF THE PROJECT AREA. THE COLLECTION AND DISPOSAL OF CONSTRUCTION WATER AND DEBRIS WILL NOT BE MEASURED, BUT WILL BE CONSIDERED INCIDENTAL TO THE WORK ITEM WHICH GENERATED THE WATER AND DEBRIS.

BLASTING OR USE OF EXPLOSIVES IS NOT PERMITTED FOR ANY PART OF THE CONCRETE REMOVAL OPERATIONS.

4. SIGNING:

TO AVOID DAMAGE, SIGNS WITHIN PROJECT LIMITS MAY BE REMOVED DURING CONSTRUCTION IF NEEDED, BUT MUST BE REINSTALLED TO MATCH EXISTING CONDITIONS BEFORE REOPENING THE ROADWAY. ALL WORK RELATED TO MOVING AND REINSTALLING THE SIGN SHALL BE INCIDENTAL TO ITEM NO. 211100 "REMOVAL OF STRUCTURES AND OBSTRUCTIONS." IF THE SIGN IS DAMAGED DURING CONSTRUCTION, THE SIGN MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE.

5. PORTLAND CEMENT CONCRETE (P.C.C.):

USE PORTLAND CEMENT CONCRETE FOR PRECAST ELEMENTS AS FOLLOWS:
(f'c = 28-DAY COMPRESSIVE STRENGTH)
CLASS A (DECK PANELS, PARAPETS, MOMENT SLAB), (f'c = 5 ksi)

A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO DELDOT WITH APPROVAL OF THE ENGINEER.

ALL DECK PANEL JOINTS SHALL USE ULTRA HIGH PERFORMANCE CONCRETE (UHPC). UHPC TO BE IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISION 618516.

ALL EXPANSION JOINT BLOCKOUTS SHALL USE HIGH EARLY STRENGTH CONCRETE (HESC) WITH 4.5 ksi COMPRESSIVE STRENGTH AT 24 HOURS. HESC TO BE IN ACCORDANCE WITH THE SPECIAL PROVISION 602603.

ALL EXPOSED EDGES SHALL BE CHAMFERED ¾" UNLESS OTHERWISE NOTED.

USE AN APPROVED EPOXY BONDING COMPOUND BETWEEN OLD AND NEW CONCRETE SURFACES. THE BONDING COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF SECTION 602 OF THE STANDARD SPECIFICATION. COST SHALL BE INCIDENTAL TO THE PERTINENT CONCRETE PAY ITEM.

CONTRACTOR SHALL SUPPLY CONCRETE FOR THE BRIDGE DECK AND PARAPETS THAT INCLUDES A SHRINKAGE-REDUCING/COMPENSATING ADMIXTURE. THE ADMIXTURE MAY BE SUPPLIED BY ONE PRODUCT THAT PROVIDES BOTH EXPANSION AND PORE WATER SURFACE TENSION OR TWO SEPARATE PRODUCTS EACH ADDED AT DOSAGE RECOMMENDED BY MANUFACTURER'S TECHNICAL DATA SHEETS AND HAVING THE FOLLOWING CHARACTERISTICS:

A. DESIGNED TO PROVIDE BOTH OF THE FOLLOWING CHARACTERISTICS:

I. EXPANDS AT A RATE THAT CLOSELY COMPENSATES FOR THE SHRINKAGE OF THE CONCRETE MIX.

II. REDUCES THE CAPILLARY SURFACE TENSION OF THE CONCRETE PORE WATER.

B. PROVIDES AT LEAST 80% SHRINKAGE REDUCTION AS MEASURED AND DOCUMENTED BY FIELD PERFORMANCE.

C. FORMULATED FOR USE IN FREEZING AND THAWING WEATHER

ALL ADMIXTURES MUST BE COMPATIBLE WITH ALL OTHER CONCRETE-MIX DESIGN CONSTITUENTS. CALCIUM CHLORIDE IS NOT PERMITTED; NO CHEMICAL ADMIXTURES WHICH CONTAIN MORE THAN 0.1% CHLORIDE BY WEIGHT, WILL BE PERMITTED. DOSAGE RATE AND MIXING SEQUENCE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

6. STRUCTURAL STEEL:

PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270, GRADE 50 OR 50W (ASTM A709, GRADE 50 OR 50W) DESIGNATION, EXCEPT WHEN NOTED OTHERWISE.

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH AASHTO/AWS D1.5 BRIDGE WELDING CODE, AND CONTRACT DOCUMENTS. MAKE TACK WELDS WITH THE SAME TYPE OF ELECTRODE AND INCORPORATE IN THE FINAL WELD.

FOR FIELD WELDING, ONLY LOW HYDROGEN E70XX ELECTRODES SHALL BE USED.

ALL BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS AASHTO M164 (ASTM A325) UNLESS OTHERWISE NOTED.

PROVIDE WELDED STUD SHEAR CONNECTORS MANUFACTURED FROM STEEL CONFORMING TO ASTM A108.

STRUCTURAL STEEL DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S SOLE EXPENSE.

7. BAR REINFORCEMENT:

REINFORCING STEEL SHALL CONFORM TO AASHTO M31 (ASTM A615), GRADE 60.

REINFORCING STEEL SHALL HAVE A 3" CLEAR COVER IF CAST AGAINST EARTH OR A 2" CLEAR COVER ELSEWHERE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

ALL REINFORCING STEEL SHALL BE PROTECTED WITH FUSION BONDED EPOXY. EPOXY COATED REINFORCING STEEL SHALL CONFORM TO AASHTO M284 (ASTM A775).

ANY FIELD CUTTING OR FIELD BENDING OF NEW OR EXISTING REINFORCEMENT MUST BE APPROVED BY THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO THE REINFORCEMENT ITEM.

WELDING OF REINFORCEMENT DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED.

EXISTING DETERIORATED REINFORCEMENT SHALL BE REPLACED IN-KIND, AS DIRECTED BY THE ENGINEER.

REINFORCING STEEL DAMAGED DURING CONCRETE REMOVAL SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT CONTRACTOR'S SOLE EXPENSE.

8. MAINTENANCE OF TRAFFIC:

MAINTENANCE OF TRAFFIC SHALL BE AS PER THE CONSTRUCTION PHASING AND MAINTENANCE OF TRAFFIC (MOT) PLANS. THIS PLAN SHALL REMAIN IN EFFECT UNTIL THE FINAL PPC OVERLAY HAS BEEN PLACED. COST FOR ALL MOT ITEMS WILL BE INCLUDED IN ITEM NO'S. 743xxx.

⚠ 9. TEMPORARY MOUNTED BARRIERS:

THE CONTRACTOR SHALL PREPARE A WORKING DRAWING SUBMITTAL OF THE PROPOSED MEANS AND METHODS TO ANCHOR THE PORTABLE P.C.C. STRUCTURE MOUNTED BARRIER DESIGNED FOR TL-5 IMPACT LOADING, AND THE REPAIRS OF THE BOLT HOLES IN THE DECK TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL ADJUST THE LOCATION OF ANCHORS TO AVOID CONFLICT WITH BAR REINFORCEMENT IN THE DECK. PAYMENT INCIDENTAL TO ~~ITEM NO. 602568 "PRECAST DECK PANELS."~~ ITEM NO. 743013 "FURNISH PORTABLE PCC STRUCTURE MOUNTED SAFETY BARRIER."

10. SAWCUTTING:

ALL CONCRETE AREAS TO BE RECONSTRUCTED SHALL BE SAWCUT AT THE POINT WHERE THE NEW CONCRETE IS TO TIE INTO THE EXISTING CONCRETE. ALL HOT-MIX OR P.C.C. SAWCUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL USE WET DIAMOND BLADE SAW CUTTING FOR CONCRETE REMOVAL OPERATIONS.

11. DESIGN SPECIFICATIONS:

(A) 2015 DELDOT BRIDGE DESIGN MANUAL.

(B) 2014 AASHTO LRFD BRIDGE SPECIFICATIONS, 7TH EDITION, CUSTOMARY U.S. UNITS.

(C) PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH THE DELDOT STANDARD SPECIFICATIONS AND STANDARD SPECIAL PROVISIONS.

12. LOADING:

DESIGN LIVE LOADS INCLUDE HL-93 LOADING WHICH CONSISTS OF A DESIGN TRUCK OR DESIGN TRAIN OR TANDEM WITH DYNAMIC LOAD ALLOWANCE AND LANE LOAD.

LIVE LOAD DISTRIBUTION TO STRINGERS IS BASED ON THE AASHTO APPROXIMATE METHOD (4.6.2.2) OR THE LEVER RULE.

THERMAL LOADS AND MOVEMENTS ARE BASED ON THE "MODERATE" TEMPERATURE RANGE STIPULATED IN THE AASHTO LRFD DESIGN SPECIFICATIONS AS 0°F - 120°F. THE NORMAL TEMPERATURE IS CONSIDERED TO BE 68°F.

REINFORCEMENT DISTRIBUTION REQUIREMENTS ARE BASED ON CLASS 1 EXPOSURE CRITERIA FOR DECKS.

BARRIERS HAVE BEEN DESIGNED TO MEET NCHRP 350 TEST LEVEL 5 (TL-5) REQUIREMENTS.

13. STORAGE OR STOCKPILING OF MATERIALS OR EQUIPMENT ON THE BRIDGE DECK IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER. TO REQUEST STORAGE OR STOCKPILING AREAS ON THE BRIDGE, THE CONTRACTOR SHALL SUBMIT STRUCTURAL ANALYSIS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE LISTING THE RESULTANT STRESSES IN THE BRIDGE ALONG WITH SPECIFIC LOCATIONS, DIMENSIONS, AND WEIGHTS OF EQUIPMENT OR MATERIALS TO BE STORED. REFER TO DELDOT SUPPLEMENTAL SPECIFICATION TO THE STANDARD SPECIFICATIONS 104.15 AS REVISED NOV. 24, 2014.

14. EXISTING CONDITIONS:

ALL EXISTING DIMENSIONS AND ELEVATIONS SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, GEOMETRY, AND ELEVATIONS AS NECESSARY PRIOR TO ORDERING ANY MATERIALS AND COMMENCING CONSTRUCTION TO ENSURE PROPER FIT OF THE PROPOSED CONSTRUCTION. PAYMENT SHALL BE INCIDENTAL TO THE ITEM BEING MANUFACTURED AND/OR INSTALLED.

THE CONTRACTOR SHALL NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE BY THE DEPARTMENT OR ITS AUTHORIZED AGENTS AS ACCURATE REPRESENTATION OF ANY OF THE CONDITIONS THAT WILL BE ENCOUNTERED IN THE FIELD.

THE INFORMATION SHOWN ON THESE PLANS FOR THE EXISTING BRIDGE MAY NOT BE ACCURATE AND SHOULD NOT TO BE CONSIDERED THE SOLE BASIS FOR COMPUTATION OF UNIT PRICES FOR BIDDING PURPOSES. THE CONTRACTOR SHALL ASSUME THAT CONDITIONS AFFECTING THE COST AND/OR QUANTITIES OF THE WORK TO BE PERFORMED MAY DIFFER FROM THOSE INDICATED AND MAY NEED TO BE VERIFIED.

15. MATERIALS, CONSTRUCTION AND WORKMANSHIP WILL BE IN ACCORDANCE WITH DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (THE LATEST EDITION AND SUPPLEMENTS THERETO WHICH ARE IN EFFECT AT THE DATE OF REQUEST FOR BIDS) AND THE PROJECT SPECIAL PROVISIONS, WHERE THERE IS CONFLICT BETWEEN THE DELDOT STANDARDS AND SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS, THE PROJECT SPECIAL PROVISIONS SHALL TAKE PRECEDENCE.

16. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE STATE, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE STATE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

17. UTILITIES:

THERE ARE NO KNOWN LIVE UTILITIES CARRIED ON BRIDGE 1-717. THE EXISTING 2" DIA. CONDUIT EMBEDDED IN THE SOUTH BARRIER IS ABANDONED AND TO BE REMOVED DURING DEMOLITION BY THE CONTRACTOR.

IF AN UNDOCUMENTED UTILITY IS LOCATED DURING CONSTRUCTION, WORK AROUND THE SERVICE SHALL CEASE AND THE ENGINEER SHALL BE CONTACTED. UNTIL THE ENGINEER ADVISES HOW TO PROCEED, THE UTILITY SHALL BE TEMPORARILY PROTECTED IF DEEMED NECESSARY BY THE DEPARTMENT.

18. PRECAST CONCRETE DECK PANELS:

THE CONTRACTOR SHALL ANALYZE THE PRECAST CONCRETE PANELS TO ASSESS POTENTIAL DAMAGING STRESSES DUE TO TRANSPORTATION, ERECTION AND OTHER CONSTRUCTION LOADS.

LIFTING SUPPORTS FOR HANDLING WILL BE DESIGNED AND DETAILED BY THE CONTRACTOR IN ACCORDANCE WITH PCI DESIGN HANDBOOK, SEVENTH EDITION WITH ALL INTERIMS AND ERRATA.

THE PRECAST CONCRETE DECK PANELS HAVE ¼" CONCRETE GRINDING ALLOWANCE FOR CORRECTING UNEVEN ROADWAY SURFACE AT JOINTS, PRIOR TO PLACEMENT OF POLYESTER POLYMER CONCRETE (P.P.C.) OVERLAY.

ALL FACE OF BLOCKOUTS SHOWN ON PANEL DETAILS SHALL HAVE A ROUGHENED SURFACE.

REFER TO SPECIAL PROVISION 602568 FOR PRECAST DECK PANELS.

REFER TO SPECIAL PROVISION 602733 FOR P.P.C. OVERLAY.

STABILITY OF INDIVIDUAL PANELS AND THE ENTIRE SUPERSTRUCTURE DURING INSTALLATION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

THE INSTALLATION SEQUENCE SHALL BE SHOWN ON THE ERECTION DRAWINGS SUBMITTED BY THE CONTRACTOR.

AFTER THE COMPLETION OF PANEL INSTALLATION, ELEVATIONS SHALL BE TAKEN AND COMPARED WITH THE REQUIRED ELEVATIONS. ADJUSTMENTS TO THE ELEVATIONS SHALL BE MADE SO THAT THE FINAL ROADWAY SURFACE WILL BE ACHIEVED AFTER PLACEMENT OF P.P.C. OVERLAY. THE DIAMOND GRINDING OPERATION SHALL BE PERFORMED WITHOUT VIOLATING THE 2.5" MINIMUM COVER. SURVEY INFORMATION TO DETERMINE THE THEORETICAL HAUNCH DEPTHS FOR SETTING ELEVATION OF THE PANELS SHALL BE DEVELOPED IMMEDIATELY AFTER REMOVAL OF THE EXISTING DECK TO AVOID PROJECT DELAY.

TO CALCULATE THE THEORETICAL HAUNCH DEPTHS, THE CONTRACTOR MAY TAKE ELEVATION READINGS AT THE TOP OF THE STRINGERS AT SPAN TENTH POINTS BEFORE AND AFTER THE EXISTING DECK IS REMOVED. THE CONTRACTOR MAY THEN USE THE CHANGE IN READINGS TO DETERMINE THE ANTICIPATED DEAD LOAD DEFLECTIONS OF THE NEW PRECAST DECK, ADJUSTED FOR DIFFERENCE IN WEIGHT, WHEN COMPUTING HAUNCH DEPTHS FOR SETTING THE SUPPORT ANGLES. FOR EASE OF ACCESS PRIOR TO REMOVING THE DECK, ELEVATIONS MAY BE TAKEN ALONG THE BOTTOMS OF THE STRINGERS. NOTE, DUE TO DIFFERENT PERIODS OF CONSTRUCTION, LOCKED-IN STRAINS RELEASED IN THE STRINGERS MAY NOT ACCURATELY PREDICT THE ANTICIPATED DEAD LOAD DEFLECTIONS FOR THE NEW PRECAST DECK.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CREATING THE HAUNCH DEPTH TABLE. SURVEY WORK SHALL BE INCIDENTAL AND INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 602568.

ALL REINFORCING STEEL EMBEDDED IN OR EXTENDING FROM PRECAST DECK PANELS, INCLUDING SHEAR TROUGHS AND BARRIER JOINTS, SHALL BE INCIDENTAL TO ITEM NO. 602568.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	
⚠ MODIFIED NOTE, JRB 2/2/16, JLC 2/2/16	

NOT TO SCALE

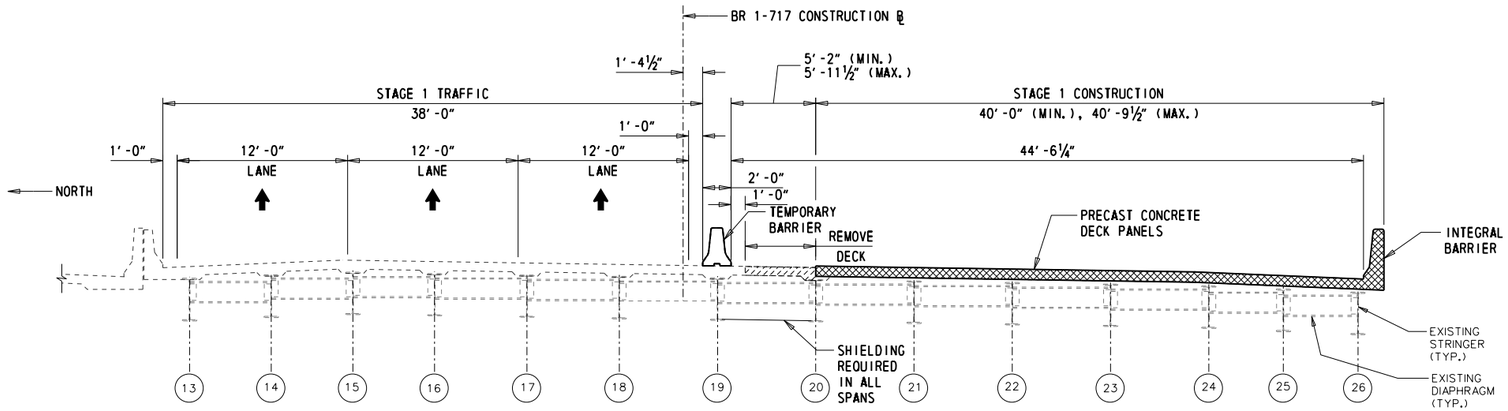
BR 1-717 ON I-95 NB OVER SR 1

CONTRACT	T201507407	BRIDGE NO.	1-717
COUNTY	NEW CASTLE	DESIGNED BY:	SCF
		CHECKED BY:	JRB

BRIDGE PROJECT NOTES

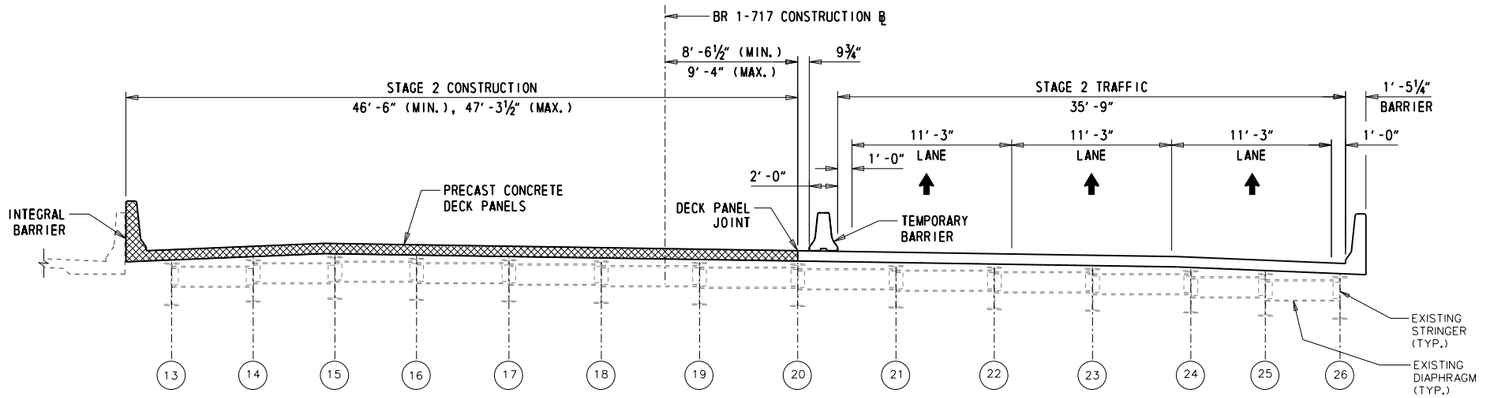
SHEET NO.
7
TOTAL SHTS.
64

Addendum No. 1
February 4, 2016



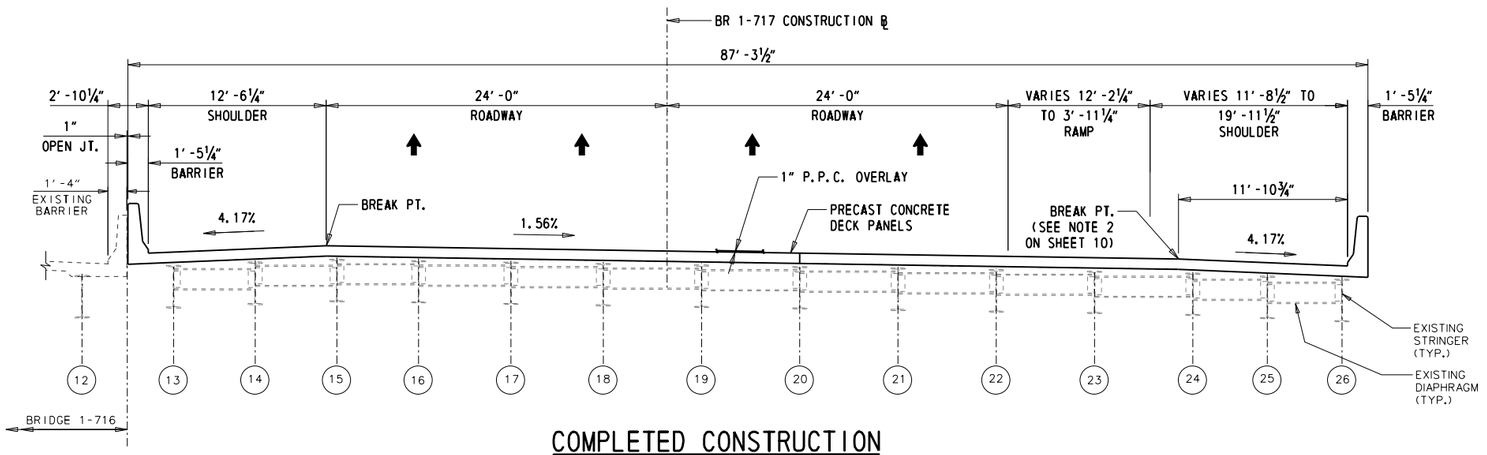
STAGE 1 CONSTRUCTION

SCALE: ⅛" = 1'-0"



STAGE 2 CONSTRUCTION

SCALE: ⅛" = 1'-0"



COMPLETED CONSTRUCTION

SCALE: ⅛" = 1'-0"

CONSTRUCTION SEQUENCE NOTES:

1. SET UP TRAFFIC CONTROL FOR STAGE 1 CONSTRUCTION IN ACCORDANCE WITH THE CONSTRUCTION PHASING, MAINTENANCE OF TRAFFIC STAGE 1 PLAN.
2. INSTALL TEMPORARY BARRIER FOR STAGE 1 CONSTRUCTION.
3. REMOVE EXISTING DECK AND SOUTH BARRIER TO THE LIMITS SHOWN IN STAGE 1 CONSTRUCTION.
4. REMOVE EXISTING SHEAR STUDS ON STRINGERS.
5. CLEAN TOP SURFACE OF EXISTING STRINGERS AND INSTALL NEW SHEAR STUDS.
6. INSTALL PRECAST PANELS WITH INTEGRAL BARRIERS TO THE EXTENTS SHOWN IN STAGE 1 CONSTRUCTION.
7. AFTER ULTRA HIGH STRENGTH CONCRETE (UHPC) AND HIGH EARLY STRENGTH CONCRETE (HESC) IN THE DECK PANEL JOINTS AND EXPANSION JOINT BLOCK OUTS HAS REACHED THEIR REQUIRED MINIMUM STRENGTH, SANDBLAST SURFACE, APPLY PRIME COAT AND PLACE 1" THICK P.P.C. DECK OVERLAY. P.P.C. OVERLAY EXTENDS THE FULL LENGTH OF THE BRIDGE AND THE APPROACH SLABS. DIAMOND GRIND PANELS AS NECESSARY PRIOR TO PLACING P.P.C. OVERLAY.
8. APPLY SILICONE ACRYLIC CONCRETE SEALER TO SOUTH BARRIER.
9. INSTALL LANE MARKING ON THE STAGE 1 CONSTRUCTION AREA IN ACCORDANCE WITH THE SIGNING, STRIPING AND CONDUIT PLANS.
10. WHILE THE UHPC AND HESC IS CURING, REMOVE EXISTING BARRIER AND TOP OF WINGWALLS ON THE SOUTH SIDE OF THE BRIDGE.
11. INSTALL PRECAST MOMENT SLAB AND BARRIER AT SOUTH SHOULDER.
12. SET UP TRAFFIC CONTROL FOR STAGE 2 CONSTRUCTION IN ACCORDANCE WITH THE CONSTRUCTION PHASING, MAINTENANCE OF TRAFFIC STAGE 2 PLAN.
13. ⚠ RELOCATE TEMPORARY BARRIER TO LOCATION SHOWN IN STAGE 2 CONSTRUCTION. STRUCTURE MOUNT TEMPORARY PCC BARRIER (STAGE 2 NORTHBOUND ONLY)
14. REMOVE EXISTING DECK AND NORTH BARRIER.
15. REMOVE EXISTING SHEAR STUDS ON STRINGERS.
16. CLEAN TOP SURFACE OF EXISTING STRINGERS AND INSTALL NEW SHEAR STUDS.
17. INSTALL PRECAST PANELS WITH INTEGRAL BARRIERS TO THE EXTENTS SHOWN IN STAGE 2 CONSTRUCTION.
18. AFTER UHPC AND HESC IN THE DECK PANEL JOINTS AND EXPANSION JOINT BLOCK OUTS HAS REACHED THEIR REQUIRED MINIMUM STRENGTH, SANDBLAST SURFACE, APPLY PRIME COAT AND PLACE 1" THICK P.P.C. OVERLAY. P.P.C. OVERLAY EXTENDS THE FULL LENGTH OF THE BRIDGE AND THE APPROACH SLABS. DIAMOND GRIND PANELS AS NECESSARY PRIOR TO PLACING P.P.C. OVERLAY.
19. APPLY SILICONE ACRYLIC CONCRETE SEALER TO NORTH BARRIER FACE. OUTSIDE FACE OF BARRIER SHALL BE PREVIOUSLY SEALED PRIOR TO INSTALLATION.
20. INSTALL LANE MARKING ON THE STAGE 2 CONSTRUCTION AREA IN ACCORDANCE WITH THE SIGNING, STRIPING AND CONDUIT PLAN.
21. WHILE UHPC AND HESC IS CURING, PARTIALLY DEMOLISH EXISTING BARRIERS ON THE NORTHERN WINGWALLS.
22. CLEAN THE EXPOSED CONCRETE SURFACE ON THE BARRIER AND CAST THE NEW CONCRETE TO FORM THE NEW BARRIER PROFILE AND TRANSITION TO MATCH THE BARRIER ON THE BRIDGE.
23. REMOVE TEMPORARY BARRIER AND REPAIR HOLES IN DECK.
24. REMOVE TRAFFIC CONTROL.
25. OPEN BRIDGE TO TRAFFIC.
26. DURING NIGHTTIME LANE CLOSURES, CLEAN SURFACES OF C.I.P. CONCRETE BARRIERS AND APPLY SILICONE ACRYLIC SEALER.

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	
⚠ MODIFIED NOTE, JLC 2/2/16	

SCALE AS NOTED

BR 1-717 ON
I-95 NB OVER SR 1

CONTRACT	BRIDGE NO.	1-717
T201507407	DESIGNED BY:	SCF
COUNTY	CHECKED BY:	JRB
NEW CASTLE		

SEQUENCE OF CONSTRUCTION

SHEET NO.
11
TOTAL SHTS.
64