

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
TRANSPORTATION SOLUTIONS, BRIDGE MAINTENANCE AND CONSTRUCTION
QUANTITY ESTIMATIONS AND SPECIFICATIONS FOR

Bridge Deck Sealing, Kent County, SR 1, FY27

CONTRACT NUMBER – T202607801

PROJECT ID: 2024-00187

FEDERAL AID NUMBER – BFP-2026(08)

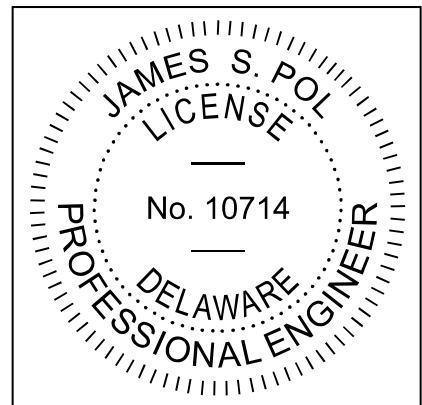
COUNTY: Kent

PLANS PREPARED BY: Trent Lukowski, Jayson Guzman, Austin Luszc

DelDOT – Project Engineers

James Pol, P.E.

DELDOT –PROJECT MANAGER
TRANSPORTATION SOLUTIONS



THIS SEAL APPLIES TO ALL SHEETS WITHIN THIS REPORT

APPROVED FOR ADVERTISEMENT

DIRECTOR OF TRANSPORTATION SOLUTIONS

03/18/2026

DATE

INDEX OF SHEETS	
Sheet Number	Sheet Name
1	Title Sheet
3	Contract Description
4	General Notes
5 - 6	Project Notes
7 - 8	Maintenance of Traffic Notes
9 - 11	Bridge Specific Notes
12	Sealing Requirements for Decks
13	Sealing Requirements for Approach Slabs
14	Maintenance of Traffic
15 - 18	Location Maps

CONTRACT DESCRIPTION

The purpose of this contract is to seal bridge decks, approach slabs and sidewalks for the 17 bridges included in this contract through the application of a silane-based concrete sealer, high molecular weight methacrylate concrete sealer, hot poured crack sealer and silicon joint sealer. Bridges in this contract are:

No	Bridge List	Facility Carried	Feature Intersected	Coordinates
1	2915N150	SR 1 NB	Duck Creek	Lat: 39°18'34.89" Long: -75°35'47.94"
2	2915S150	SR 1 SB	Duck Creek	Lat: 39°18'34.92" Long: -75°35'49.31"
3	2009D009	E. Commerce St	SR 1	Lat: 39°18'19.96" Long: -75°35'39.09"
4	2916N150	SR 1 NB	Mill Creek	Lat: 39°17'52.73" Long: -75°35'35.46"
5	2916S150	SR 1 SB	Mill Creek	Lat: 39°17'52.68" Long: -75°35'36.63"
6	2012C012	Smyrna-Leipsic Rd	SR 1	Lat: 39°17'29.64" Long: -75°35'36.66"
7	2917N150	SR 1 NB	SR 1 Interchange	Lat: 39°16'57.87" Long: -75°35'22.22"
8	2917S150	SR 1 SB	SR 1 Interchange	Lat: 39°16'57.6" Long: -75°35'23.39"
9	2918N150	SR 1 NB	Big Oak Rd	Lat: 39°16'20.89" Long: -75°34'56.25"
10	2918S150	SR 1 SB	Big Oak Rd	Lat: 39°16'20.44" Long: -75°34'57.36"
11	2084C084	Twin Willows Rd	SR 1	Lat: 39°15'14.01" Long: -75°34'43.82"
12	2919N150	SR 1 NB	Leipsic River	Lat: 39°14'31.34" Long: -75°34'53.69"
13	2919S150	SR 1 SB	Leipsic River	Lat: 39°14'31.76" Long: -75°34'54.81"
14	2927N150	SR 1 NB	Alston Branch	Lat: 39°14'2.47" Long: -75°34'42.39"
15	2927S150	SR 1 SB	Alston Branch	Lat: 39°14'1.35" Long: -75°34'42.89"
16	2014C014	Fast Landing Rd	SR 1	Lat: 39°13'37.85" Long: -75°34'21.15"
17	2345 245	Simms Woods Rd	SR 1	Lat: 39°13'17.41" Long: -75°33'53.98"

GENERAL NOTES

1. This project is to be completed in accordance with Delaware Department of Transportation “Standard Specifications for Road and Bridge Construction”, dated January 2026 and the Delaware Department of Transportation “Standard Construction Details”, dated 2026, including all revisions up to the date of advertisement.
2. An erosion control site reviewer shall be a person from the Contractor’s staff assigned to Erosion and Sediment Control Implementation and Maintenance and shall be required on specific projects. The name and DNREC certification number of each site reviewer so required shall be submitted to the Department prior to the execution of the contract. The name of the Delaware registered Professional Engineer providing direction and supervision of the site reviewer, as required in Section 12.3 of the Delaware Sediment and Stormwater Regulations, shall also be submitted to the Department prior to execution of the contract. The site reviewer requirements in effect on this project shall be as marked with an (x) below:

Erosion potential for this project	Site reviewer requirement
(X) Insignificant	None
() Minor	Contractor training program, as defined in Section 6.2 of the Delaware Sediment and Stormwater Regulations.
() Medium	Contractor training program, as defined in Section 6.2 of the Delaware Sediment and Stormwater Regulations.
() Major	Certified construction reviewer (CCR) as defined in Section 6.3 of the Delaware Sediment and Stormwater Regulations.

3. Electronic project files that will be made available to the Contractor include: None.
4. Project files that will be made available to the Contractor include: Archived Construction Plans.
5. The disturbed area for this project is 0 acres. Added impervious area for this project is 0 acres.
6. The Contractor shall be responsible for adhering to the Construction Site Pollution Prevention Specifications as detailed in Section 3.6 of the “Delaware Erosion and Sediment Control Handbook”. All costs associated with adhering to the standards shall be incidental to the overall contract.

PROJECT NOTES

1. There are several methods of sealing cracks, joints and surfaces identified in this contract. The following Item Numbers will be used as noted in Table 2, and Table 3:
 - a. 613002 – Silane-Based Concrete Sealer
 - b. 613003 – High Molecular Weight Methacrylate Concrete Sealer
 - c. 624010 – Silicone Joint Seal, 1”
 - d. 624011 – Silicone Joint Seal, 2”
 - e. 628011 – Crack Sealing Bridge Decks, Approach Slabs, Sidewalks, ETC
2. General notes specific to each location are included in Table 1. These notes are given as estimates only. The Contractor shall verify the location and dimension of all quantities before submitting bids.
3. Prepare the surface of the deck, approach slab, sidewalks and medians in accordance with the Standard Specification Section 613.3.B.4-8. This work is incidental to the following Item Number:
 - a. 613002 – Silane Based Concrete Sealer.
4. Once the surface of the deck, approach slab, sidewalks and medians are clean, apply the silane-based concrete sealer in accordance with Section 613 of the Standard Specification. Apply the silane sealer at the lowest coverage rate specified by the manufacturer’s product data sheet. Apply the sealer to provide complete coverage of the area. Promptly remove any excess material from the concrete surface. This work will be paid for by the following Item Number:
 - a. 613002 – Silane Based Concrete Sealer.
5. Once the silane has cured per the requirements of the manufacturer, seal cracks in the deck, approach slab, sidewalks and medians. Seal visible cracks and tight construction joints with methacrylate concrete sealer. Seal cracks in accordance with Sections 613 and 628 of the Standard Specification. Seal all cracks until refusal where the sealer is visible at the top of the void, completely filling and bonding the void to keep moisture out and protecting the concrete. If the sealer is not visible at the top of the void, repeat the sealing process. This work will be paid for by the following Item Number:
 - a. 628011 – Crack Sealing Bridge Decks, Approach Slabs, ETC.
6. For areas of heavy map cracking, as determined by the engineer, in the bridge decks and approach slabs, prepare and seal the area with a flood seal application of methacrylate in accordance with Section 613 of the Standard Specification. Seal all cracks until refusal where the sealer is visible at the top of the void, completely filling and bonding the void to keep moisture out and protecting the concrete. If the sealer is not visible at the top of the void, repeat the sealing process. This work will be paid for by the following Item Number:
 - a. 613003 – High Molecular Weight Methacrylate Concrete Sealer
7. For larger construction joints, joints between backwall headers and approach slabs, joints between approach slabs and parapets, transition joints, or other open joints, prepare and seal the joint with a silicone joint sealant in accordance with Section 624 of the Standard Specification. The preparation shall be done prior to the application of the silane-based concrete sealer. The silicone shall be applied after the application and manufacture’s specified curing period of the silane-based concrete sealer. This work will be paid by the following Item Numbers:
 - a. For joints up to 1”, 624010 – Silicone Joint Seal, 1”
 - b. For joints up to 2”, 624011 – Silicone Joint Seal, 2”

8. Trash, rubbish, and debris shall be removed within the project limits and shall be included in the initial deck, approach slab or sidewalk preparation and shall be incidental to the following Item Number:
 - a. 613002 – Silane Based Concrete Sealer.
9. During the cleaning operation, the Contractor shall protect/shield all striping and pavement markings, which will remain in place. When applying the sealant, the Contractor shall apply it directly on existing striping and pavement markings.
10. Remove all equipment from the job site daily, except when approved by the engineer.
11. Perform all work within the existing DelDOT right-of-way.
12. No equipment is allowed in any waterway or wetland.
13. There are no environmental permits, or environmental construction restrictions provided that all work activities are contained to the top side of the structure.
14. For all bridge locations, the contractor is to ensure that all material is kept to the surface of the bridge so that nothing falls on the roadway, railroad, or waterway below. Any shielding used or required to contain the material to the bridge deck shall be considered incidental to the following Item Number:
 - a. 613002 – Silane Based Concrete Sealer.
15. The Contractor may store the equipment needed for this project at a pre-approved area within the Limits of Construction (LOC). Requests for equipment or materials storage outside of the LOC must be coordinated with the DelDOT Environmental Stewardship Section. If the Contractor wishes to store equipment in the DelDOT maintenance yard, an Agreement will have to be executed between the Department and the Contractor. A generic copy of this Agreement is attached with the bidding documents. The Contractor should notify the DelDOT Construction Engineer if they wish to store equipment in a DelDOT Maintenance Yard. The Contractor must remove equipment when directed by the Department.
16. Areas in which the soil and vegetation have been damaged from the Contractors' operations, shall be repaired with topsoil, seed, and mulch in accordance with the requirements for Section 908 at no additional cost to the Department.
17. Assessment of the Road User Cost (RUC) will be made through the following Item Number:
 - a. 763525 – Road User Cost

MAINTENANCE OF TRAFFIC NOTES

1. Providing, installing, maintaining, and removing all MOT devices will be the responsibility of the contractor.
2. The Delaware MUTCD Typical Applications to be used during all sealing operations, along with the allowable days and hours for each location, have been listed by the Department in Table 4. If the contractor elects to deviate from the provided typical applications, the Contractor shall be responsible for preparing traffic control plans in accordance with the Standard Specification Section 104.8 Maintaining Traffic, for approval by the engineer. Any alternative traffic control plans prepared by the Contractor shall be signed and sealed by a professional engineer registered in the State of Delaware. No additional compensation will be paid if the contractor elects to formulate their own Maintenance of Traffic plans. This work will be paid under the following Item Numbers:
 - a. 801000 – Maintenance of Traffic
 - b. 802003 – Arrow Panels Type C
 - c. 803001 – Provide and Maintain Portable Changeable Message Sign
 - d. 804001 – Provide and Maintain Portable Light Assembly (Flood Lights)
 - e. 805001 – Plastic Traffic Control Drums
 - f. 806500 – Traffic Officers
 - g. 808002 – Provide and Maintain Truck Mounted Attenuator, Type II
 - h. 810001 – Temporary Warning Signs and Plaques
 - i. 811002 – Flagger, Kent County
 - j. 811014 – Flagger, Kent County, Overtime
3. The Contractor must always maintain at least one through lane and its adjacent shoulder in each direction.
4. The Contractor may work concurrently on up to 3 bridge locations with the approval of the engineer. The engineer reserves the right to restrict how many bridges may be worked on concurrently. If the Contractor elects to work on multiple locations, the Contractor shall maintain a minimum 1 mile separation between maintenance of traffic typical application set-ups and no typical application set-ups may be in conflict or overlap. The contractor must have a crew working at each location when the maintenance of traffic typical application is in place.
5. PCMS shall be placed at all locations, 10 days in advance of the work and remain in place for 5 days after the start of work. The first work activity will be setting up the associated maintenance of traffic as specified within the plans at each location. The location of the PCMS and messages displayed shall be reviewed and approved by the district safety officer. This work will be paid under the following Item Number:
 - a. 803001 – Provide and Maintain Portable Changeable Message Sign
6. All MOT shall only occur during the period shown in Table 4. The contractor shall strictly adhere to these time and day restrictions.

7. Storage of equipment shall be in accordance with Standard No. M-15 (2026) of the Standard Construction Details. PCMS boards shall be placed off the shoulder for emergency vehicle access.
8. On Limited Access Highways – Vehicles and equipment shall enter and exit the work area in the same direction as adjacent traffic. The Contractor’s vehicle(s) and equipment shall enter and exit the roadway at interchanges or unrestricted crossovers that are open to public use. The Contractor’s vehicle(s) and equipment shall not U-turn across medians or at crossovers restricted for authorized and emergency vehicles only.
9. American Traffic Safety Association (ATSSA) Certified Traffic Control Supervisor Requirement for the project:

()	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT AND THAT PERSON’S SOLE RESPONSIBILITY SHALL BE THE MANAGEMENT AND SUPERVISION OF THE PROJECT’S TEMPORARY TRAFFIC CONTROL ACTIVITIES. THIS PERSON SHALL NOT HAVE ANY OTHER ROLE ON THE PROJECT. RESPONSIBILITIES AND REQUIREMENTS OF THE ATSSA SUPERVISOR ARE DEFINED IN SECTION 812 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000.

Table 1 – Bridge Specific Notes

Bridge List	Bridge Specific Notes
2915N150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).
2915S150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).
2009D009	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck and approach slabs with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at east and 1 at west).
2916N150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck and approach slabs with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and Both parapets (2 at north and 2 at south).
2916S150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck and approach slabs with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and Both parapets (2 at north and 2 at south).
2012C012	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck and approach slabs with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at east and 1 at west) and at the interfaces of the approach slabs and both parapets (2 at east and 2 at west).

2917N150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck and approach slabs with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).
2917S150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck and approach slabs with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).
2918N150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck and approach slabs with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).
2918S150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).
2084C084	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck and approach slabs with methacrylate.
2919N150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).
2919S150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).
2927N150	<ul style="list-style-type: none"> - Silane bridge deck and approach slabs. - Methacrylate cracks in bridge deck and approach slabs. - Flood seal areas of heavy map cracking in bridge deck with methacrylate. - Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).

2927S150	<ul style="list-style-type: none">- Silane bridge deck and approach slabs.- Methacrylate cracks in bridge deck and approach slabs.- Flood seal areas of heavy map cracking in bridge deck with methacrylate.- Silicone joint seal all joints between the approach slabs and strip seal headers (1 at north and 1 at south) and at the interfaces of the approach slabs and both parapets (2 at north and 2 at south).
2014C014	<ul style="list-style-type: none">- Silane bridge deck and approach slabs.- Methacrylate cracks in bridge deck and approach slabs.
2345 245	<ul style="list-style-type: none">- Silane bridge deck and approach slabs.- Methacrylate cracks in bridge deck and approach slabs.- Flood seal areas of heavy map cracking in bridge deck with methacrylate.

Table 2 – Sealing Requirements for Decks

Bridge List	Silane-Based Concrete Sealer 613002 (SF)	High Molecular Weight Methacrylate Concrete Sealer 613003 (SF)	Silicone Joint Seal, 1" 624010 (LF)	Silicone Joint Seal, 2" 624011 (LF)	Crack Sealing Bridge Decks, Approach Slabs, Sidewalks, ETC 628011 (LF)
2915N150	X	X	X		X
2915S150	X	X	X		X
2009D009	X	X		X	X
2916N150	X	X	X		X
2916S150	X		X		X
2012C012	X			X	X
2917N150	X	X		X	X
2917S150	X	X		X	X
2918N150	X	X		X	X
2918S150	X	X		X	X
2084C084	X	X			X
2919N150	X			X	X
2919S150	X			X	X
2927N150	X	X		X	X
2927S150	X	X		X	X
2014C014	X				X
2345 245	X	X			X

Table 3 – Sealing Requirements for Approach Slabs

Bridge List	Silane-Based Concrete Sealer 613002 (SF)	High Molecular Weight Methacrylate Concrete Sealer 613003 (SF)	Crack Sealing Bridge Decks, Approach Slabs, Sidewalks, ETC 628011 (LF)
2915N150	X		X
2915S150	X		X
2009D009	X	X	
2916N150	X	X	
2916S150	X	X	
2012C012	X	X	X
2917N150	X	X	
2917S150	X	X	
2918N150	X	X	X
2918S150	X		X
2084C084	X	X	X
2919N150	X		X
2919S150	X		X
2927N150	X		X
2927S150	X		X
2014C014	X	X	X
2345 245	X		X

Table 4 - Maintenance of Traffic

Bridge List	Facility Carried	Feature Intersected	Latitude/ Longitude	MOT Cases	Allowable Lane Closure Hours	Allowable Closure Days
2915N150	SR 1 NB	Duck Creek	39.30969444 -75.59665	TA 33	9pm - 5am	Sun - Thu
2915S150	SR 1 SB	Duck Creek	39.3097 -75.59703056	TA 33	9pm - 5am	Sun - Thu
2009D009	E. Commerce St	SR 1	39.30554722 -75.59419167	TA 3 and TA 10	8am - 4pm	Mon - Fri
2916N150	SR 1 NB	Mill Creek	39.29798056 -75.59318611	TA 33	9pm - 5am	Sun - Thu
2916S150	SR 1 SB	Mill Creek	39.29796944 -75.59351111	TA 33	9pm - 5am	Sun - Thu
2012C012	Smyrna-Leipscic Rd	SR 1	39.29156667 -75.59351944	TA 3 and TA 10	8am - 4pm	Mon - Fri
2917N150	SR 1 NB	SR 1 Interchange	39.28274444 -75.58950556	TA 33	9pm - 5am	Sun - Thu
2917S150	SR 1 SB	SR 1 Interchange	39.28266667 -75.58983056	TA 33	9pm - 5am	Sun - Thu
2918N150	SR 1 NB	Big Oak Rd	39.27247222 -75.58229444	TA 33	9pm - 5am	Sun - Thu
2918S150	SR 1 SB	Big Oak Rd	39.27234722 -75.5826	TA 33	9pm - 5am	Sun - Thu
2084C084	Twin Willows Rd	SR 1	39.25389444 -75.57883889	TA 3 and TA 10	8am - 4pm	Mon - Fri
2919N150	SR 1 NB	Leipscic River	39.24203889 -75.58158333	TA 33	9pm - 5am	Sun - Thu
2919S150	SR 1 SB	Leipscic River	39.24215556 -75.58189444	TA 33	9pm - 5am	Sun - Thu
2927N150	SR 1 NB	Alston Branch	39.23402222 -75.57844167	TA 33	9pm - 5am	Sun - Thu
2927S150	SR 1 SB	Alston Branch	39.23371111 -75.57858333	TA 33	9pm - 5am	Sun - Thu
2014C014	Fast Landing Rd	SR 1	39.22718333 -75.57254444	TA 3 and TA 10	8am - 4pm	Mon - Fri
2345 245	Simms Woods Rd	SR 1	39.22150278 -75.56499722	TA 3 and TA 10	8am - 4pm	Mon - Fri

Location Maps



