

STATE OF DELAWARE  
DEPARTMENT OF TRANSPORTATION  
MAINTENANCE AND OPERATIONS



PLANS AND SPECIFICATIONS FOR  
Contract Number: T201607701  
Federal Aid Project Number: ESTP -N060(17)  
Deck Patching, North, Interstate, Open End, FY16- FY18

PLANS PREPARED BY: *ML*  
NORTH DISTRICT CONTRACTS ENGINEER

DATE: 7/6/15

DATE RECOMMENDED: July 6, 2015

*Pamela G. May*  
NORTH DISTRICT DESIGN ENGINEER



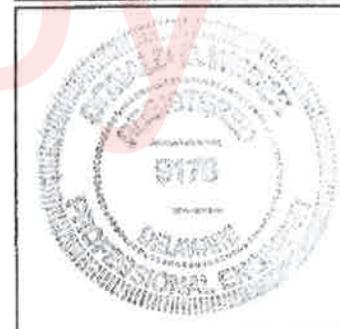
DATE RECOMMENDED: 6 July 2015

*Maureen Elizabeth Mauger*  
NORTH DISTRICT MAINTENANCE ENGINEER



DATE APPROVED: 7/7/15

*[Signature]*  
NORTH DISTRICT ENGINEER



# DELAWARE DEPARTMENT OF TRANSPORTATION

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## CONTRACT DESCRIPTION

The purpose of this open-ended contract is to patch bridge decks along or over Interstate I-95/I-495/I-295 including associated ramps. Work shall include crack sealing decks, and concrete repair. All work shall be done as directed by the Engineer on the individual work orders.

The specific work sites are not listed herein, but will be assigned as available by the North District Maintenance offices.

## GENERAL NOTES

1. All work shall be performed in accordance with the Delaware Department of Transportation Standard Specifications dated August 2001 (as amended by the Supplemental Specifications), the Special Provisions, the Standard Construction Details, and these Notes.
2. The contract shall be for a period of three (3) years from the date of Initial Notice To Proceed, with the option to extend the contract for one (1) additional one-year period. If it is determined that a contract extension is needed and agreed upon by both parties, unit prices for all pay items during the extension shall remain the same as bid in the original contract. The one-year extension must be approved by both parties in writing, at least 30 days prior to the expiration of the existing contract. The Performance Bond shall be submitted with the contract extension and shall be subject to any such agreed upon renewal for the extension period. Failure on the part of the Contractor to submit the Performance Bond for the extension period prior to the last working day before the end of the previous period shall result in the contract being cancelled. It shall be the contractor's responsibility to obtain the forms necessary to renew the Performance Bond each year the contract is in force.
3. An updated Performance Bond shall be submitted at the beginning of each fiscal year. Failure on the part of the Contractor to submit the Performance Bond shall result in the Contract being cancelled.
4. Whenever the word "Contractor" is used in this contract, it shall refer to the person or persons, company or corporation furnishing the services required.
5. Whenever the word "Department" or "Engineer" is used, it shall refer to the person or persons, representing the Delaware Department of Transportation (DelDOT).
6. Tasking of work for Fiscal Years 2016, 2017, 2018, and 2019 (beginning July 1, 2018) and later is contingent upon authorization of Federal and State funding.
7. It is anticipated that all work will occur within DelDOT's existing right of way or easement areas. Should the need occur to trespass onto private property; it will be the responsibility of the DelDOT Project Manager to secure such trespass needs.

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8. It is anticipated that all work will occur within DelDOT's right of way. Should the need occur to trespass onto railroad property, including highway-rail crossings; please contact DelDOT's railroad coordinator.
9. No utility relocation involvement is anticipated. Should any conflicts be encountered during construction requiring adjustment and/or relocation of the agencies' existing facilities, the necessary relocation work shall be accomplished by the respective agencies' forces, as directed by the Engineer. Any adjustments and/or relocations of municipally owned facilities shall be done by the State's contractor in accordance with the respective agencies' standard specifications as directed by the Engineer.
10. Underground and aerial utilities may be present at all locations. Therefore, all standard practices and procedures regarding utilities shall be followed. The Contractor shall contact Miss Utility of Delaware prior to starting each work order. The Contractor is responsible for the support and protection of all utilities when excavating. The Contractor is responsible for ensuring proper clearances, including safety clearances, from overhead utilities for construction equipment. The Contractor is advised to check the site for access purposes for his equipment, and make arrangements directly with utility companies for field adjustments for adequate clearances if necessary.
11. The work shall be scheduled via work orders per specific bridge from the Department. The work order will indicate the general scope of work required. Any questions during construction shall be referred to the Engineer or the field representative.
12. Prosecution and Progress of Work:

Issuance of each work order constitutes the notice to proceed with the work described on the work order.

If there is a verified non-availability of materials, time charges shall commence on the first (1<sup>st</sup>) working day following the delivery date of materials.

Failure to start assigned work orders in the allowed time constitutes "Failure to Pursue the Work" and subjects the Contractor to Liquidated damages as outlined in Section 108.09 of the Standard Specifications. If work on a specific work order is not completed within the allotted time, Liquidated Damages will be assessed in accordance with Subsection 108.09 and based on the total value of that work order.

Each work order shall be considered a separate unit of work. The Engineer will make payment monthly for the completed invoices as outlined in Section 109.07. Upon the substantial completion of the work at an individual location, the Engineer will stop time at that location and perform a semi-final inspection for the work order location in accordance with Subsection 105.20. The Engineer reserves the right to require the Contractor to add Work or make repairs to completed locations at the Engineer's expense until such a location has been accepted by the Department. The Contractor must repair all defects in the work

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caused by poor workmanship or materials at his/her own expense until the Department accepts the Contract after the Final Inspection.

A Semi-Final and Final Inspection will be completed on an annual basis for work orders completed in a calendar year. Upon satisfactory completion of the Final Punchlist, the Department will accept the location and release the Contractor from responsibility for the Work at that location. If a work order is sufficiently large and complex as determined by the Engineer, a Final Inspection may be held upon the individual completion of that work order.

13. Payment will be monthly for the completed work as outlined in Section 109.07.
14. Clearing and grubbing of trees, shrubs and other vegetation less than six (6) inches in diameter within ten (10) feet of the bridge structure shall be incidental to the applicable repair, replacement or excavation Pay Item. There shall be no separate payment for clearing and removal of trees, shrubs and vegetation less than six (6) inches in diameter within the area of the bridge structure. Grubbing activities performed in wetland areas require environmental permit approvals obtained by DeIDOT prior to commencement of work.
15. No environmental permits are required for this work provided no jurisdictional wetlands or waters are impacted. If there is any question as to whether or not a water or wetland is jurisdictional, contact the DeIDOT Environmental Section at (302) 760-2264.
16. Work within waters/wetlands shall not begin on locations requiring environmental permits until all applicable permits have been obtained by DeIDOT. Confirm permit status with DeIDOT Engineer prior to commencement of applicable work.
17. Excavated material not needed on the project shall be removed from the site at the Contractor's expense.
18. Proper disposal of construction related wastes shall be the sole responsibility of the Contractor. In the event there is suspicion of Hazmat material, inform the Engineer as soon as possible.
19. Section 101.91(4) is amended. There will not be a winter shutdown from December 16<sup>th</sup> to March 15<sup>th</sup>. The Department reserves the right to issue work and charge time between these dates.
20. Trash, rubbish, debris or brush that hampers repair / maintenance work in this Contract (as determined by the Engineer), shall be removed within the project limits and shall be incidental to Pay Item 763000 (Initial Expense).
21. Grass and soil areas within State right-of-way that have been damaged by equipment during this contract, shall be restored with topsoil, seed and mulch at Contractor's own expense to the satisfaction of the Engineer.

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22. Portable Light Assemblies will be required for all night time operations and as directed by the Engineer. Payment for portable lighting shall be under pay item 743005.
23. All costs for access beneath bridges (such as scaffolding, bucket trucks, ladders, etc.) shall be included in the bid price for each applicable maintenance and repair pay item. The Contractor is responsible for ensuring compliance with all applicable OSHA safety regulations related to access for maintenance and repair beneath all bridges.
24. Epoxy or Methacrylate based crack sealer shall be applied to bridge decks under Pay Item 602629 (Crack Sealing Bridge Decks, Etc.) in locations directed by the Engineer. The Contractor shall submit the Product Data sheet for the proposed material for use prior to commencement of work. The Product Data Sheet shall specify drying time for crack sealer. The product drying time shall allow for lane opening to traffic within six (6) hours (or less) of application.
25. If temporary PCC barrier including the necessary end treatments is required, it is incidental to the applicable deck patching repair item.
26. Partial depth saw cutting will be done at the direction of the Engineer and is incidental to the applicable deck patching repair item.
27. When repairing bottom side of concrete decks, perform repairs in accordance with the following requirements, unless directed otherwise by the DelDOT Engineer:
  - For spall and delamination repairs less than 3" depth, use pay item 602575 (Deck Repair, 1" to 3" Depth). For repairs greater than or equal to 3" depth, use pay item 602577 (Deck Repair, Full Depth) as determined by DelDOT Engineer. Consult with the Engineer prior to performing deep spall repairs on underside of deck. Lane closures on bridge deck may be required.
  - When directed by the Engineer, perform sounding under the supervision of the Engineer or the Field Representative for delamination of concrete around visible cracks, spalls and other deterioration. Mark out repairs and await direction from the Engineer. Sounding and marking of concrete shall be incidental to the applicable repair item.
  - If reinforcing steel is exposed, then all exposed steel shall be thoroughly cleaned of rust and other contaminants to the satisfaction of the Field Representative. Payment shall be included in the unit bid price for Items 602575 and 602577.
28. All concrete spall repair performed under Pay Item 602575, 602576, and 6025577 shall be performed in accordance with the requirements as stated in the respective Special Provision, and in accordance with the following additional requirements:

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- Perform abrasive blasting of reinforcing steel as necessary to remove corrosion and other contaminants prior to placement of patching mortar or concrete. The Contractor is responsible for containing and cleaning up the abrasive material.
- Prepared concrete surface shall be roughened by abrasive blasting prior to placement of patch mortar or concrete. This roughening improves the mechanical bond when patch material is applied. The Contractor will be responsible for containing and cleaning up the abrasive material which is incidental to the applicable patching item.

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### MAINTENANCE OF TRAFFIC

1. All work shall be performed in a manner that will reasonably provide the least practicable obstruction to all road users, including vehicular, pedestrian and bicycle traffic, and shall conform to the requirements of the 2011 Delaware Manual On Uniform Traffic Control Devices, Part 6, Including all revisions up to the date of advertisement for bids.
2. Time restrictions will be outlined in the Transportation Management Plan, which will be prepared by Traffic Safety at least three weeks in advance of starting work at each location unless otherwise directed by the Engineer.
3. No lane closures will be permitted on holidays, holiday weekends or during special events as outlined in Section 743 of the Standard Specifications and/or the Transportation Management Plan, unless approved by the Engineer with consultation with the Safety Section.
4. The Contractor shall have an American Traffic Safety Services Association (ATSSA) Certified Supervisor assigned to this project. The Contractor's general superintendent for this project or another ATSSA certified member of the Contractor's project staff shall not be the ATSSA supervisor.
5. If a road closure is required, the Contractor shall be required to submit the proposed detour route to the DelDOT Safety Officer for approval. Payment for detour plan preparation shall be included in the bid price for Item 763000 (Initial Expense). The Department will coordinate with the Safety Section and be responsible for the necessary notifications. The detour route requires approval by the Department prior to closure. A two week detour review lead time shall be required for any requested detour. The Contractor shall be responsible for furnishing and maintaining the Maintenance of Traffic apparatus at the closure (i.e. Type III Barricade, Road Closed signs, etc.) and all signs. The Contractor shall be responsible for placement of detour trailblazers. Payment will be under Item 743024 (Temporary Warning Signs and Plaques).
6. Any existing signs that conflict with any construction signs shall be covered by the Contractor as needed, or as directed by the Engineer. The Contractor shall stake out locations of warning signs in the field and receive approval from the Engineer for the location and method of mounting prior to ordering the signs. The Contractor, with the Engineer, shall inventory all existing signs within the Contract limits. Signs that must remain in place during the project shall be maintained by the Contractor. Any other existing signs shall be removed and properly stored by the Contractor to prevent loss or damage.
7. The Contractor shall submit a site-specific Traffic Control Plan for approval two (2) weeks before the start of each location. The Traffic Control Plan must be in accordance

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with the latest revision of the Delaware Manual on Uniform Traffic Control Devices, Part 6, and must clearly indicate orientation of traffic control devices to be used for each site.

8. The safety measures outlined within this Contract and the Delaware MUTCD are not necessarily sufficient in every instance to guarantee the protection of the traveling public or the persons working on the project. Therefore, the provisions of this Contract do not relieve the Contractor of the sole responsibility for the safety of all persons working within or traveling through the work zone throughout the duration of the project. The Contractor shall implement any additional safety measures that are not expressly required by the Contract and are necessary to ensure the safety of all persons. The Contractor shall submit to the Engineer justification for deviations from the Traffic Control Plan or Traffic Management Plan. Final approval of the deviations or additions shall rest with the Engineer. All costs for this work shall be incidental to Item 763000 (Initial Expense).
9. Any deficiencies related to temporary traffic control that are reported to the Contractor in writing shall be corrected within 24 hours or as directed by the Engineer. Corrective actions on severe deficiencies as determined by the Engineer shall be taken immediately unless otherwise directed by the Engineer. Failure to comply will result in non-payment for those devices that are found to be deficient for the duration of the deficiency. Severe deficiencies that are not corrected immediately could result in possible suspension of work until items identified are brought back into compliance and/or the holding of the pay estimate until the severe deficiencies are corrected.
10. At the end of each workday, the Contractor shall correct all pavement edge drop-offs in accordance with the Delaware MUTCD. This corrective work shall be accomplished with Hot Mix Temporary Road Material. All ruts and potholes shall be filled with TRM as soon as possible, but no later than by the end of each workday. Placement of TRM shall be completed in accordance with the applicable sections of the Delaware Standard Specifications. If temporary elimination of a drop-off hazard cannot be accomplished, then the area shall be properly marked and protected with additional temporary barriers, barricades, warning signs, etc. as required by the Delaware MUTCD, and as approved by the Engineer. Payment for all work described in this Project Note shall be incidental to applicable Maintenance of Traffic Pay Items in the Contract. There shall be no additional compensation provided to the Contractor for this work.
11. If the Contractor does not complete the contract work within the contract completion time as listed on the Work Order (including approved time extensions), the Contractor shall be responsible for providing the necessary temporary traffic control devices that are required to complete any remaining work. The cost of such temporary traffic control shall be borne by the Contractor. No additional payment will be made to the Contractor to maintain traffic in accordance with the Delaware MUTCD, specifications, and these project notes.
12. All equipment shall be removed from the job sites on a daily basis, except when allowed by the Engineer.

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13. All temporary traffic control devices used on all highways open to the public in this State shall be crashworthy in accordance with the National Cooperative Highway Research Program (NCHRP) Report 350 and the memorandum issued August 28, 1998 by The USDOT Federal Highway Administration Information: Crash Tested Work Zone Traffic Control Devices and/or MASH. It is the requirement of the Department that such certification be submitted for traffic control devices used on all projects, not just those involving the National Highway System.
14. The Department reserves the right to stop the Contractor's operations, if in the opinion of the Engineer the Contractor's operations are not in compliance with the Delaware MUTCD, the specifications, or the Contract Documents. The Department also reserves the right to stop the Contractor's operations if the Engineer deems the operation unsafe.
15. The Department will not make payment to the Contractor for any and all temporary traffic control devices where the Contractor sets up temporary traffic control to perform work, but fails to perform any work.
16. The Contractor shall maintain access to and along pedestrian facilities at all times during construction. Earth, stone, and gravel surfaces are not acceptable for providing pedestrian access. Where pedestrian routes are closed or blocked, alternate pedestrian access shall be provided using TA-28 and/or TA-29 of the 2011 Delaware Manual Of Uniform Traffic Control Devices or to the satisfaction of the Engineer. Pedestrian detour routes or alternate pedestrian facilities shall consist of ADA compliant facilities to the level of which exists on the pedestrian route. The cost for any provisions shall be incidental to Item 763000 (Initial Expense).

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**QUANTITY SUMMARY**

ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
401821	Bituminous Concrete, Superpave, Type C, 160 Gyration	TON	50.00
401822	Bituminous Concrete, Superpave, Type B, 160 Gyration	TON	100.00
602001	Portland Cement Concrete Masonry, Class A	CY	200.00
602575	Deck Repair, 1" To 3" Depth	SF	7,000.00
602576	Deck Repair, 3" To < Full Depth	SF	7,000.00
602577	Deck Repair, Full Depth	SF	4,000.00
602580	Partial Removal Of P.C.C. Masonry	CY	200.00
602629	Crack Sealing Bridge Decks, Approach Slabs, Sidewalk, ETC.	LF	2,000.00
605604	Joint Repair With Elastomeric Concrete, 2"	LF	500.00
605654	Asphaltic Plug Joint	LF	2,000.00
605692	Silicone Joint Seal	LF	2,000.00
743003	Arrowpanels, Type C	EADY	1,000.00
743004	Furnish And Maintain Portable Changeable Message Sign	EADY	300.00
743005	Furnish And Maintain Portable Light Assembly	EADY	300.00
743006	Plastic Drums	EADY	55,000.00
743007	Traffic Officers	HR	1,000.00
743010	Furnish And Maintain Truck Mounted Attenuator, Type II	EADY	300.00
743023	Temporary Barricades, Type III	LFDY	10,000.00
743024	Temporary Warning Signs And Plaques	EADY	1,500.00
743056	Flaggers, New Castle County, Federal	HR	1,000.00
743065	Flaggers, New Castle County, Federal, Overtime	HR	100.00
748019	Temporary Markings, Paint, 4"	LF	15,000.00
748020	Temporary Markings, Paint, 6"	LF	20,000.00
748507	Permanent Pavement Striping, Epoxy Resin Paint, White/Yellow, 6"	LF	10,000.00
748525	Temporary Markings, Tape, 4"	LF	500.00
748530	Removal Of Pavement Striping	SF	20,000.00
748547	Retroreflective Preformed Patterned Contrast Markings, 9"	LF	3,000.00
748549	Permanent Pavement Striping, Epoxy Resin Paint, White/Yellow, 10"	LF	500.00
748557	Permanent Pavement Striping, Epoxy Resin Paint, Black 3"	LF	4,000.00
760000	Pavement Milling, Hot-Mix	SY-IN	400.00
760001	Pavement Milling, Concrete	SY-IN	2,000.00
762002	Saw Cutting, Concrete, Full Depth	LF	6,000.00
763000	Initial Expense	LS	1.00