

STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
MAINTENANCE AND OPERATIONS



PLANS AND SPECIFICATIONS FOR
Contract Number: T201506701
Micro-Surfacing, North, FY15-16

PLANS PREPARED BY: *he kc*
NORTH DISTRICT CONTRACTS ENGINEER

DATE: 02/13/15

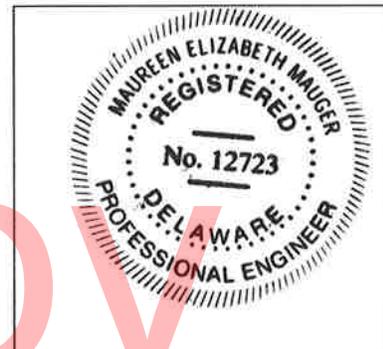
DATE RECOMMENDED: 2/13/15

Pamela G. Mauer
NORTH DISTRICT DESIGN ENGINEER



DATE RECOMMENDED: 13 February 2015

Maureen Elizabeth Mauer
NORTH DISTRICT MAINTENANCE ENGINEER



DATE APPROVED: 2/13/15

Paul
NORTH DISTRICT ENGINEER



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Micro-Surfacing, North, FY15-16

GENERAL

1. Construction of this contract shall conform to Delaware Department of Transportation Standard Specifications dated August 2001, as amended by the Supplemental Specifications, the Special Provisions, the most recent Standard Construction Details, and these Notes.
2. Whenever the word "Contractor" is used in this Contract, it shall refer to the person or persons, company, or corporation furnishing the services required.
3. Whenever the word "Department" or "Engineer" is used, it shall refer to the person or persons representing the Delaware Department of Transportation (DelDOT).
4. The District reserves the right to prioritize, substitute, add, or delete locations at any time during the contract.
5. Location listings indicate general limits of construction, types of improvements, and estimated quantities. During the bidding period, any questions pertaining to the locations shall be directed to the contract administrator. After award, such questions shall be referred to the North District Engineer or his representative.
6. The Contractor shall submit the required copies of a detailed progress schedule as outlined in Standard Specification 108.04 prior to or at the preconstruction meeting. Details shall include a description of each work activity, planned days of work, multiple crews of shifts, and scheduled working hours. During the contract, the Contractor shall submit two week (or as required) "look ahead" schedules to the DelDOT Engineer no later than noon of each Thursday. Failure to comply will result in suspension of all contract work with the time charges continuing to be assessed.
7. The Contractor shall not trespass on private property unless the District has acquired a "Temporary Trespass Agreement" from the property owner. If the work is within a permanent easement, the work shall not begin until the adjacent property owners have been notified. Prior to starting work on private property, the Contractor shall notify affected property owners of proposed work dates.
8. The Contractor is reminded that Section 105.07 of the Standard Specifications requires the General Contractor to have a competent superintendent or foreman on the project at all times.
9. The Contractor shall protect all driveways from damage due to equipment and work operations. Any damage will be the responsibility of the Contractor to remedy. Additionally, all grass and soil areas within State right-of-way that have been damaged by equipment during this contract shall be restored at Contractor's expense.
10. All costs for the following work shall be incidental to the bid price for micro-surfacing Pay Item 403510 as applicable: Clipping back vegetation from the edges of the roadway, shoulders, and the first three (3) feet of paved driveway entrances; picking up

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- and disposing of waste and excess material; and cleaning the existing pavement prior to the micro-surfacing.
11. For Pay Item 401823 (WMA Superpave BCBC), the maximum allowable lift thickness is six (6) inches depth. Minimum allowable lift thickness is three (3) inches.
 12. Trash, rubbish, debris or brush, and excavated material not needed on the project 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). Properly disposing of construction related wastes shall be the sole responsibility of the Contractor.
 13. Removal of all warm-mix, base course material, and unsuitable soil shall be paid under Item 406001 (Warm-Mix Patching).
 14. Removal of material under Pay Item 406001 (Warm-Mix Patching) shall be performed by use of a milling machine, unless directed otherwise by the Engineer, and all milled material shall remain the property of the Contractor. The Engineer may require use of other removal methods for small patching locations. The minimum width for pavement repair is 6 feet, unless directed otherwise by the Engineer. All warm mix materials shall be placed utilizing a paving machine.
 15. All milled patch areas must be backfilled with Superpave B.C.B.C. the same day.
 16. After pavement milling, all raised edges of manholes, drainage inlets, water valve boxes, and similar objects shall be ramped with Warm-mix temporary roadway material (TRM) at a 20:1 slope or flatter. Payment shall be incidental to Item 406001 (Warm-Mix Patching). Pavement milling or cold patch material will not be allowed for this purpose. All warm-mix TRM shall be removed prior to paving operations.
 17. The Contractor shall take care in removing pavement around utilities, butt joints, curbs, and similar objects, so that existing pavement beyond the specified depths is not damaged. Any damage caused by the Contractor's operations may result in placing leveling courses at the Contractor's expense. The removal and clean-up of the warm-mix residue wedge remaining after milling operations shall be incidental to Item 406001 (Warm-Mix Patching). The removal of existing raised pavement markers shall be incidental to Item 406001.
 18. The Contractor shall submit detailed drawings that show the existing pavement markings for each project work location. The drawings shall be submitted to the Engineer at the Preconstruction meeting. The drawings shall include, but not be limited to, the existing striping lengths, lane and shoulder widths, turn lane lengths, location of stop bars, turn arrows, crosswalks, and railroad crossings. These drawings will be reviewed by the DelDOT Traffic Section to determine if any changes to the final pavement markings are required. Final pavement markings shall conform to all existing patterns unless otherwise directed by the Engineer.

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19. The Department will provide striping layout at locations where no pavement markings previously exist if required by DelDOT Traffic Section.
20. Unless otherwise directed by the Engineer or shown on the approved striping drawings, white edge lines shall wrap around the radius of all side streets and major commercial entrances to a tangent point. Yellow centerlines shall be continuous around median islands.
21. DelDOT will not compensate the Contractor for erroneous pavement markings. Any erroneous pavement markings placed by the Contractor shall be corrected immediately by the Contractor at their expense. Erroneous markings or shadows that exceed one (1) inch in width shall be removed by either sand or water blasting as directed by the Engineer. No other removal methods will be allowed. A flat black paint or driveway sealer shall be applied in the area of the removed marking to mask the repair. Any damage to the pavement caused by the removal of erroneous markings shall be repaired/replaced to the satisfaction of the Engineer at Contractor's expense.
22. Final pavement markings shall conform to all existing patterns, and shall be placed 14 calendar days after placement of the final course of micro-surface. Failure to comply will result in suspension of all other contract work, with time charges continuing to be assessed. If the Contractor fails to document the existing pavement markings in an acceptable manner, he shall be required to provide at his own expense, a new pavement marking plan, signed and sealed by a Professional Engineer in the State of Delaware.
23. At the end of each work day and before traffic is returned to unrestricted roadway use, temporary striping shall be placed at locations that require permanent striping. Placement of temporary markings shall receive prior approval from the Engineer. Temporary pavement striping must match the permanent striping in all regards. Temporary pavement markings shall be paid at the applicable contract unit price. The Contractor is responsible for maintaining the temporary markings in good condition, such that the pavement is properly delineated at all times. Any refreshing of the markings will be at the Contractor's expense.
24. The Contractor shall provide all residents and businesses who live adjacent to the work zone a minimum 72 hour written notice prior to the start of construction work. This notification shall include the scope of work, working hours, anticipated start and completion dates, Contractor name and address, and DelDOT contact numbers. Failure to give proper notice will result in a suspension of the work requiring notice, until proper notice is provided. Time chargers will ensue if deemed applicable. Access to all business and residences within the project limits shall be maintained throughout the duration of this contract. Any temporary closure of a driveway for tie-in purposes shall be coordinated with the Engineer and/or property owner in advance of the closure.

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25. The Contractor shall submit certified weight tickets to DelDOT for all aggregate, mineral filler, and emulsion delivered to the job site. These tickets will be checked against the measured yields to ensure final yields meet those stated in the specification.
26. Underground 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.
27. Unless specified otherwise, surfacing widths shall match existing widths.
28. If the contractor elects to utilize a continuous feed machine (subject to prior approval for that particular location by the Engineer), the machine must first be calibrated to the satisfaction of the Engineer and a test strip, as the Engineer directs, shall then be applicable to determine the actual maximum allowable speed of the machine during material application.
29. Aggregate shall not contain MICA.
30. If any railroad property or facilities are near or within the proposed limits of work or if the proposed work encroaches upon the railroad's Right-Of-Way, the contractor shall be responsible for obtaining the required clearances and insurances for each involved railroad in accordance with Item 763502. DelDOT's Railroad Section Manager must be contacted at (302)760-2183 to coordinate the execution of the appropriate agreements and authorizations required from any railroad company involved, including coordination for railroad flagging, if necessary.

MAINTENANCE OF TRAFFIC

31. Work shall be performed in a manner that shall ensure the least practical obstruction to the traveling public, and shall conform to the requirements of the latest version of the manual entitled "Delaware Department of Transportation Manual on Uniform Traffic Control Devices (DEMUTCD) for Streets and Highways, Part 6 Temporary Traffic Control", herein referred to as the "Delaware MUTCD" (including revisions in affect at the time of advertisement for bids).
32. Work hours shall be from 8:00 AM to 4:00 PM, Monday through Friday, unless directed otherwise by the District Safety Officer. The Contractor shall comply with these time restrictions.

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33. No lane closures will be permitted on holidays or holiday weekdays, unless approved by the Engineer.
34. All flaggers utilized by the Contractor for this project shall be ATSSA certified. All flaggers shall have their certification cards with them while working. Absence of a certification card will be justification for flagger dismissal from the site and corresponding suspension of work. All construction and Contractor vehicles and self-propelled equipment shall be equipped with an operating roof mounted amber flashing light. All personnel shall wear a retro reflective safety vest while they are within the right-of-way or adjacent to it. All retro reflective safety vests must be minimum ANSI Class 2.
35. 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 may be the ATSSA supervisor.
36. 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 emergency 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 advance-warning signs. The Contractor shall be responsible for placement of detour trailblazers. Payment will be under Item 763643 (Maintenance of Traffic, All Inclusive).
37. Any existing signs that conflict with any temporary or permanent construction signs shall be covered by the Contractor as needed, or as directed by the Engineer. The Contractor shall stake out locations of permanent 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. Immediately prior to the final inspection, the Contractor and the Engineer shall again inventory the traffic signs and account for any lost or damaged signs. The Contractor shall replace or reimburse the Department for any lost or damaged signs.
38. 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 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.

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39. 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 763643.
40. All equipment shall be removed from the job sites on a daily basis, except when allowed by the DelDOT approved Traffic Safety Plan, or as approved by the Engineer.
41. Traffic control devices shall be provided and placed in accordance with the Delaware MUTCD. The Contractor shall refer to the configuration requirements for each Typical Application scenario at each work location. The proposed traffic control device configuration will be addressed in the Contractor's Traffic Control Plan.
42. 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. 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.
43. 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 Plans. The Department also reserves the right to stop the Contractor's operations if the Engineer deems the operation unsafe.
44. Drums will be required in work areas where the completion time will extend beyond one (1) daylight operation.
45. Payment for relocation and re-positioning of Traffic Control devices shall be incidental to the respective unit price Pay Items for Maintenance of Traffic included in this Contract. There shall be no additional compensation for relocation or re-positioning of traffic control devices.
46. All permanent warning signs shall be retroreflective, and constructed of rigid material complying with Delaware MUTCD NCHRP 350 requirements.
47. A truck mounted attenuator, Type II (Item 743010) shall be required on roads for shoulder work, travel lane work and for other operations as outlined in the Delaware MUTCD, or as directed by the Engineer.

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48. **Pedestrian Maintenance of Traffic:** This work shall consist of providing and maintaining an accessible pedestrian route throughout the project's limits in accordance with the Americans with Disabilities Act of 1990 (ADA) Title II, paragraph 35.130. Payment shall be made under Item 763643.
49. The contractor shall be required to review each curb ramp location and submit the appropriate maintenance of traffic detail and devices to the Engineer for each location at least 2-weeks before construction for review, comment, and approval.

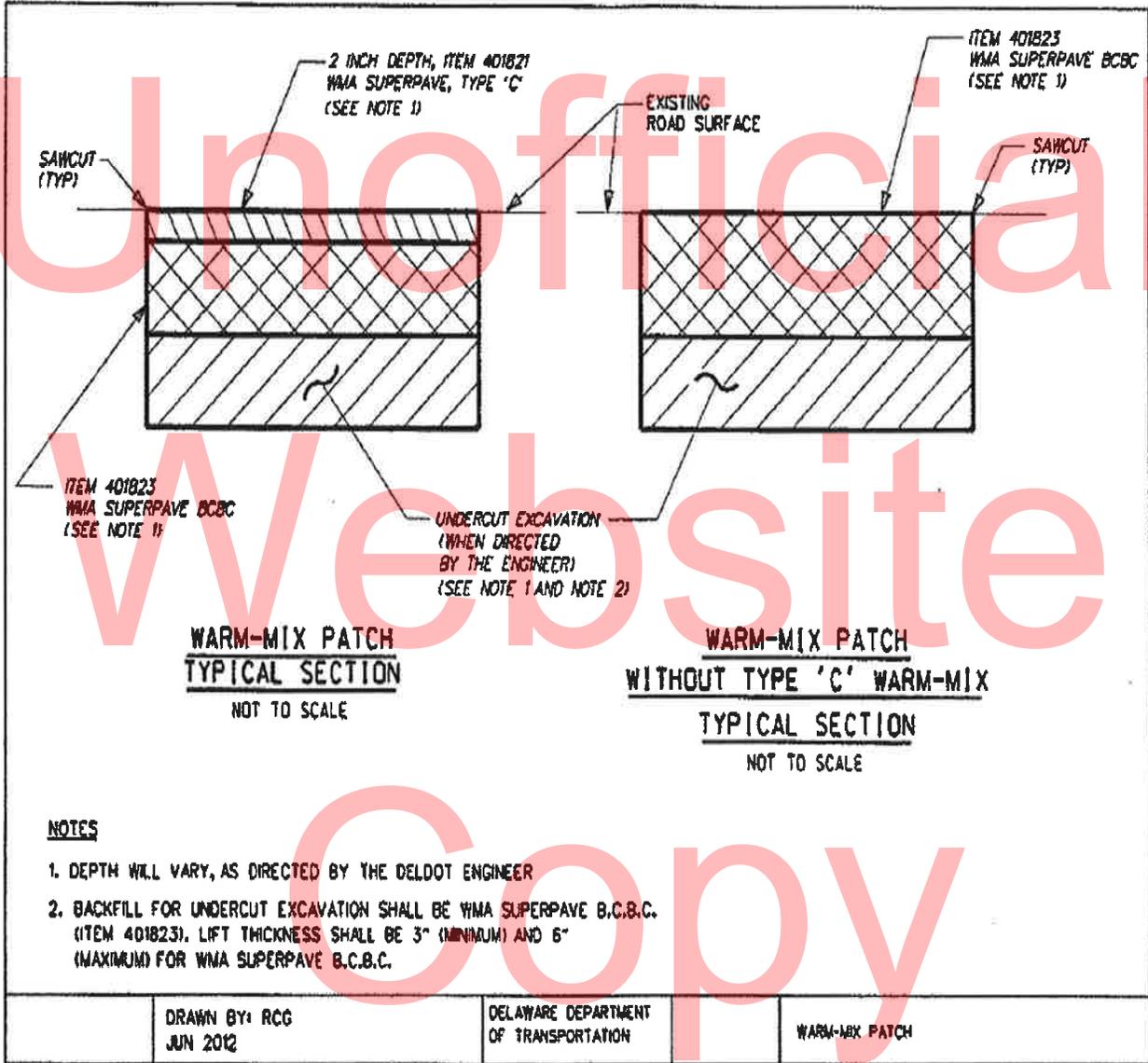
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DETAIL SHEET



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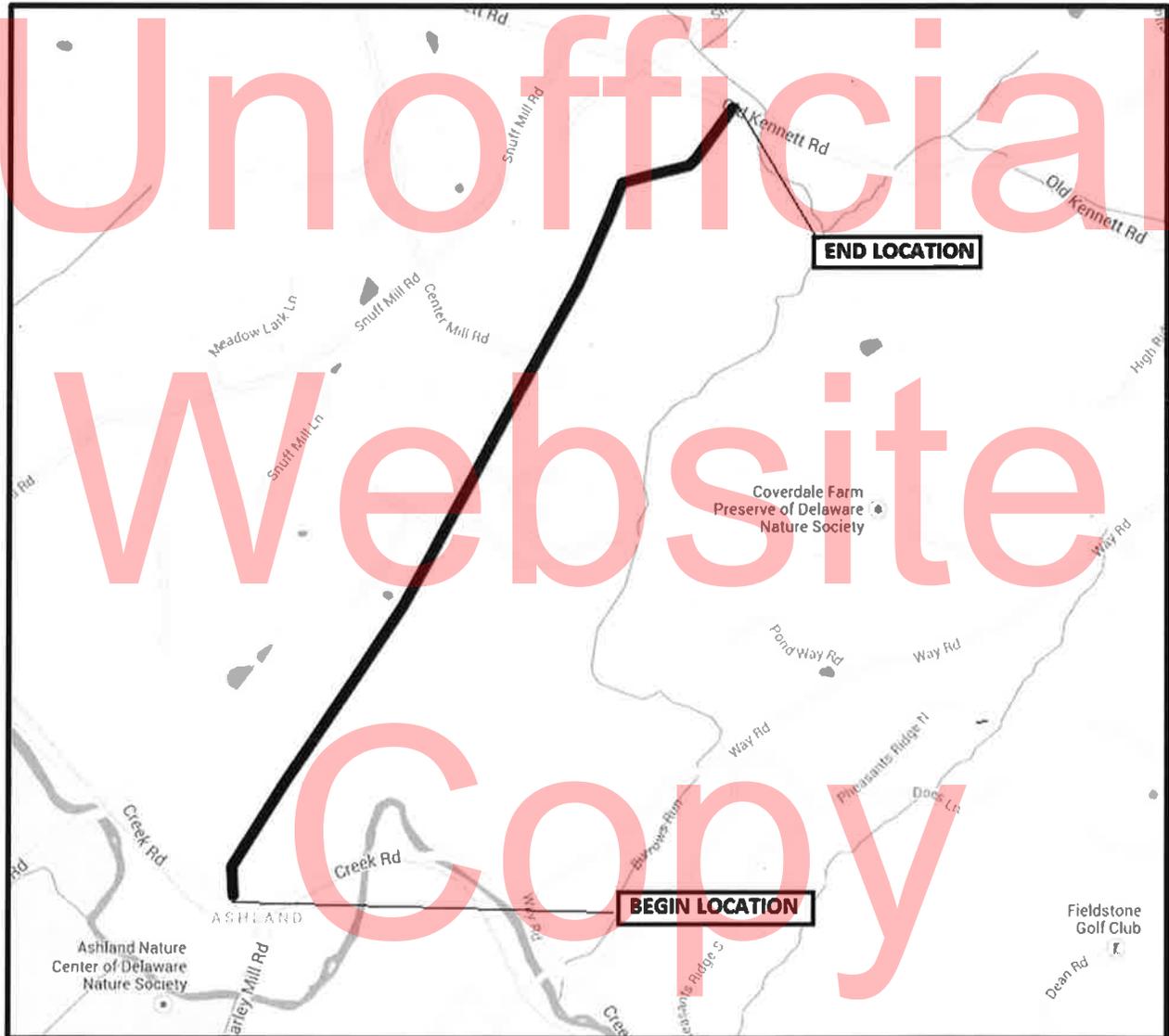
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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #1 – Ashland School Rd, from Creek Rd to Old Kennett Rd



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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 1

ASHLAND SCHOOL RD FROM MOUNT CUBA RD TO OLD KENNETT RD

LENGTH 2.4457 km 1.52 MIL

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	25.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	14,400.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	500.00 SY-IN
406507	CRACK SEALING	3,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	100.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00 HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.

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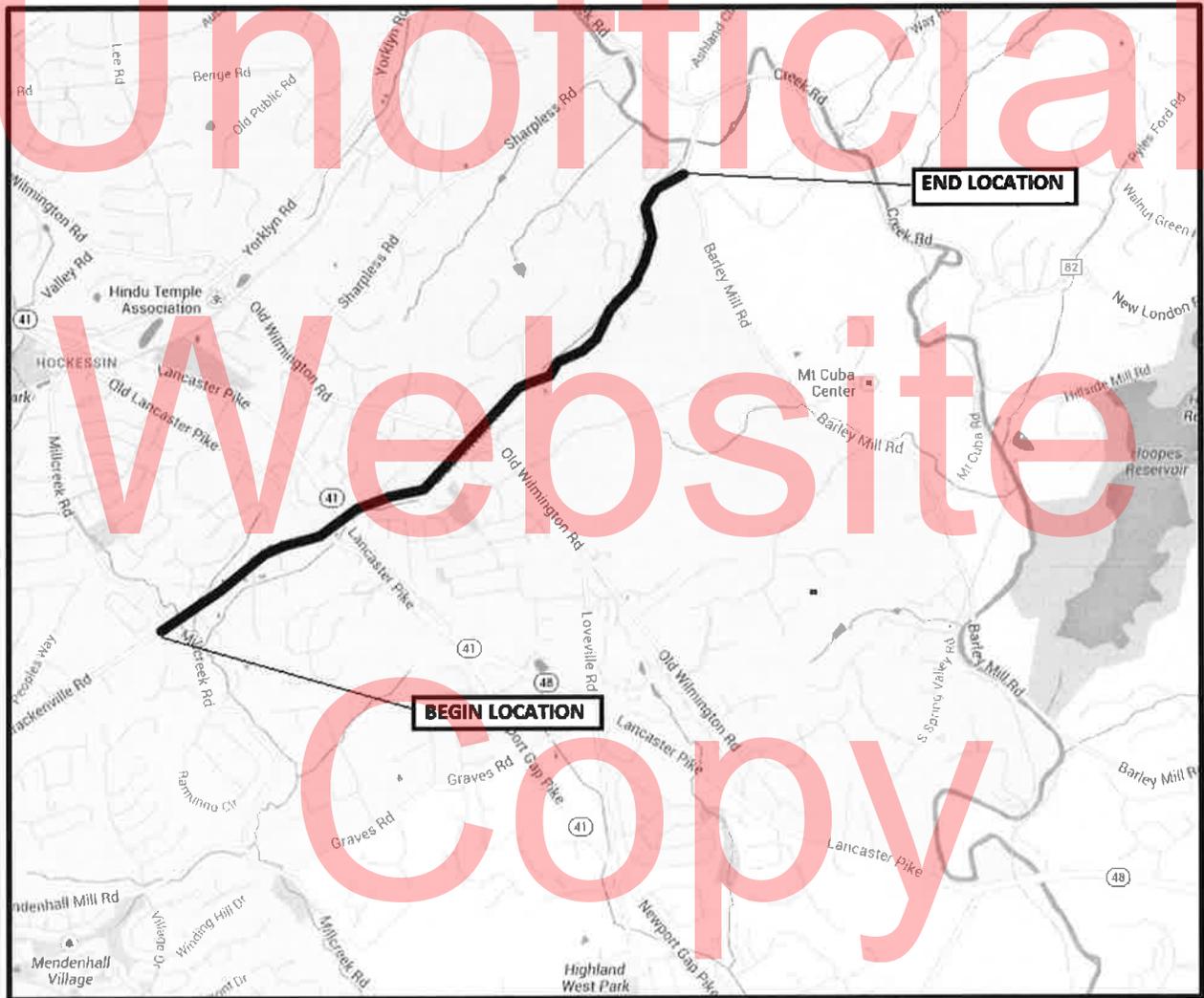
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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #2 – Brackenville Rd, from Millcreek Rd to Barley Mill Rd



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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 2

BRACKENVILLE RD FROM MILLCREEK RD TO BARLEY MILL RD

LENGTH 3.8777 km 2.41 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING, AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	200.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	31,100.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	2,000.00 SY-IN
406507	CRACK SEALING	9,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	700.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	20.00 HOUR
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	460.00 L.F.
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	200.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	33,000.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	200.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	2,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	32,500.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	400.00 L.F.

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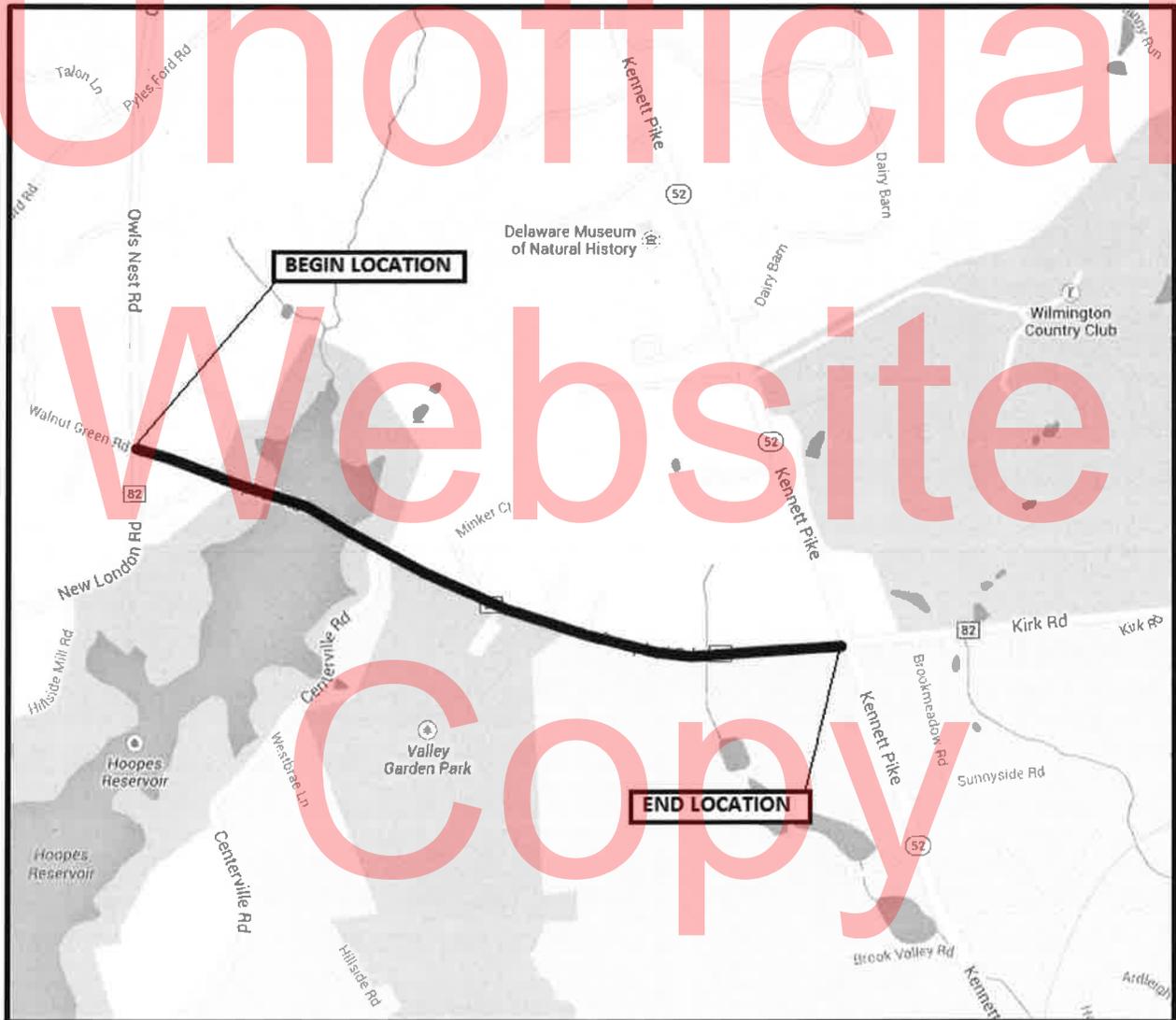
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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #3 – Campbell Rd, from New London Rd to Kennett Pike



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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 3

CAMPBELL RD FROM NEW LONDON RD TO KENNETT PIKE

LENGTH 1.9308 km 1.2 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	25.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	15,700.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	500.00 SY-IN
406507	CRACK SEALING	2,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	100.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	20.00 HOUR
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	115.00 L.F.
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	25.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	14,600.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	25.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	1,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	14,400.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.

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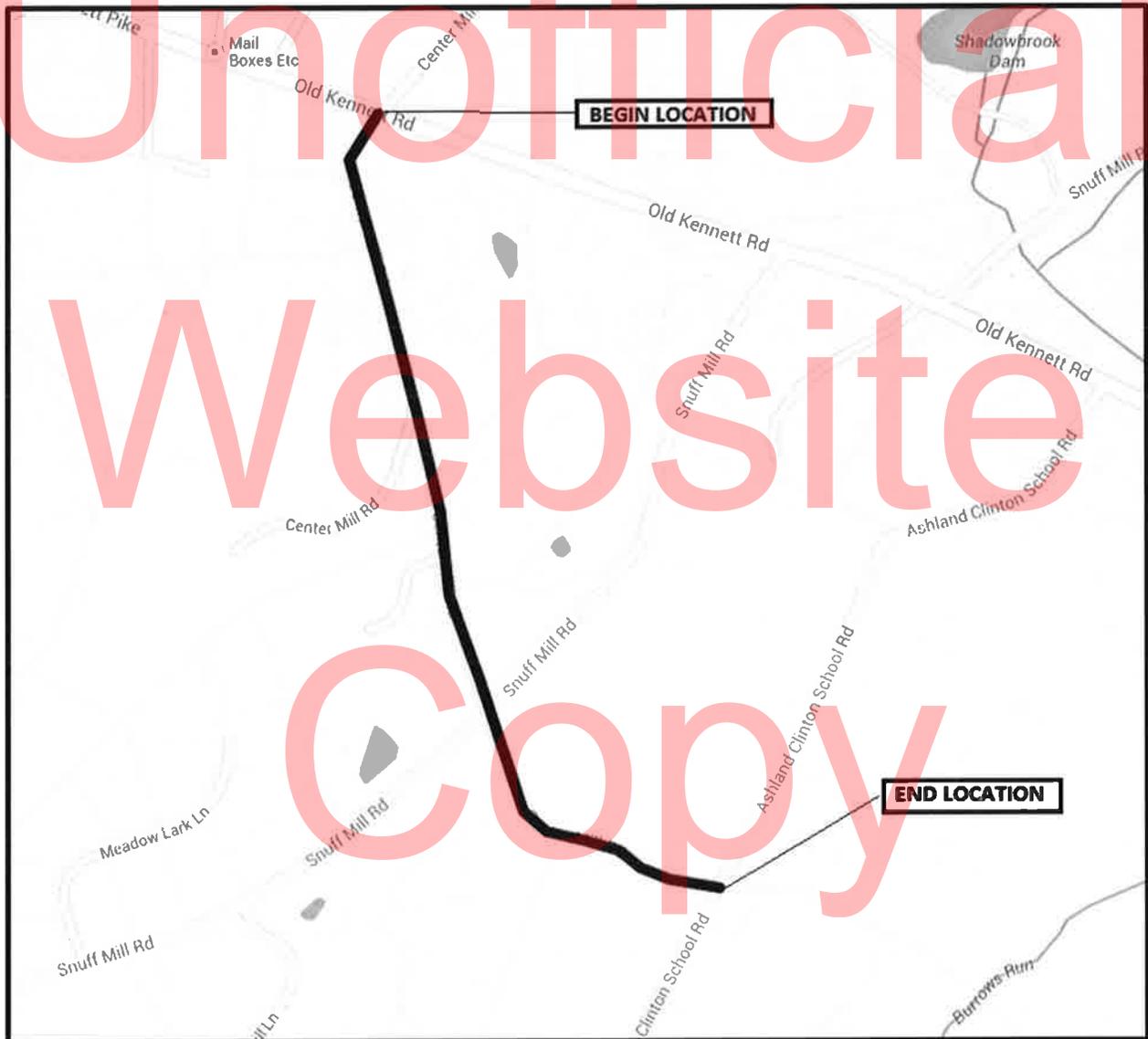
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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #4 - Center Mill Rd, from Old Kennett Rd to Ashland Clinton School Rd



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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 4

CENTER MILL RD FROM OLD KENNETT RD TO ASHLAND CLINTON SCHOOL RD

LENGTH 1.2068 km 0.75 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 4

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, F 64-22, PATCHING	25.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	6,800.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	500.00 SY-IN
406507	CRACK SEALING	2,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	100.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00 HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.

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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 5

CENTERVILLE RD FROM HILLSIDE RD TO BARLEY MILL RD

LENGTH 1.6895 km 1.05 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING, MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 5

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	400.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	14,350.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	2,500.00 SY-IN
406507	CRACK SEALING	8,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	300.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	20.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	11,300.00 L.F.
748530	REMOVAL OF PAVEMENT STRIPING	1,500.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	11,250.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	1,000.00 L.F.

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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 6

CORNER KETCH RD FROM SR 72 TO CORNER KETCH RD

LENGTH 2.4779 km 1.54 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING, AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 6

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	100.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	22,500.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	1,000.00 SY-IN
406507	CRACK SEALING	6,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	150.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	150.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	32,900.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	150.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	3,500.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	32,800.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.

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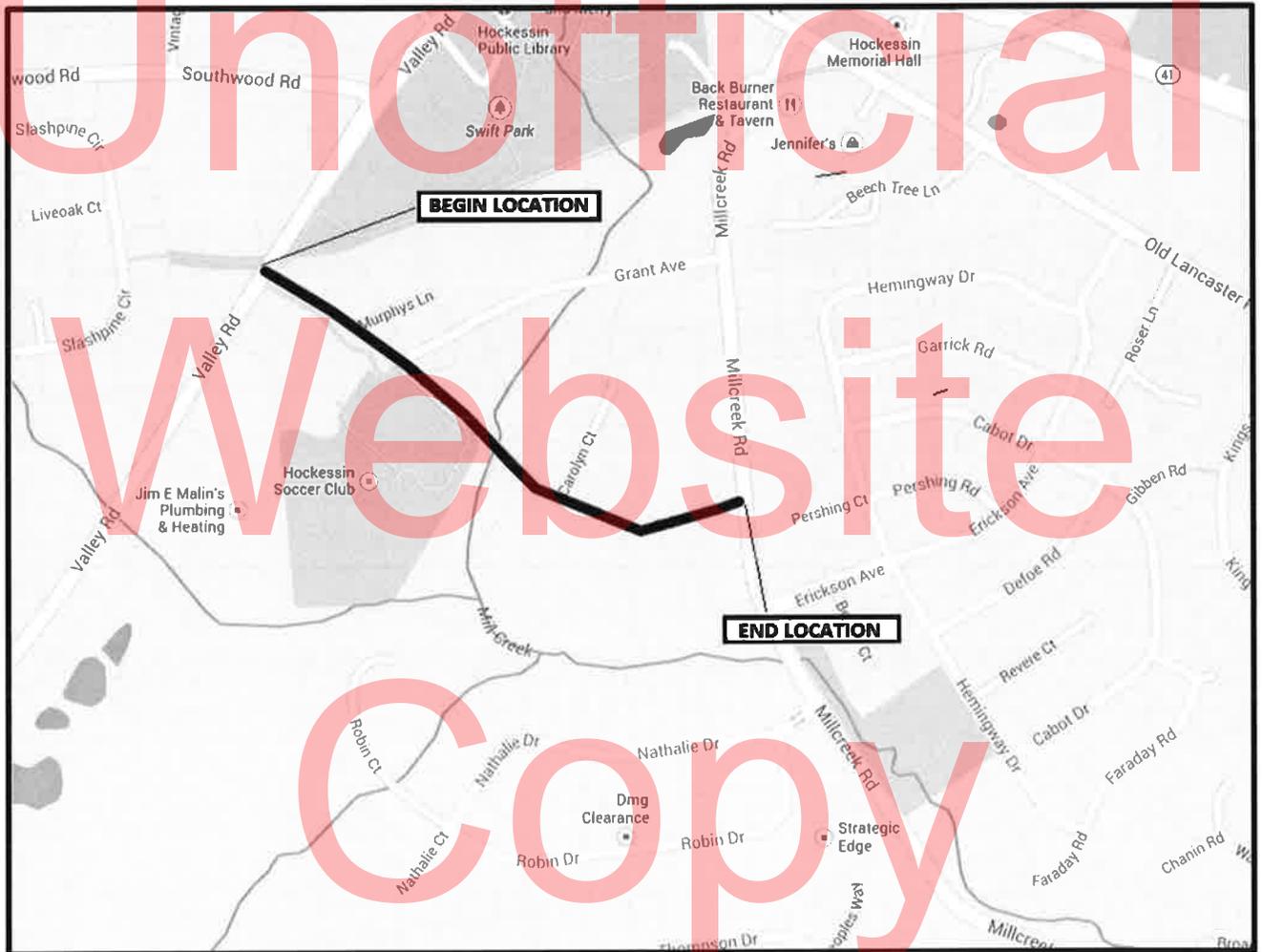
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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #7 – Evanson Rd, from Valley Rd to Millcreek Rd



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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 7

EVANSON RD FROM VALLEY RD TO DOE RUN RD

LENGTH 0.7723 km 0.48 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 7

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, F 64-22, PATCHING	25.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	6,300.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	300.00 SY-IN
406507	CRACK SEALING	2,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	100.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	1,600.00 L.F.
748530	REMOVAL OF PAVEMENT STRIPING	500.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,500.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.

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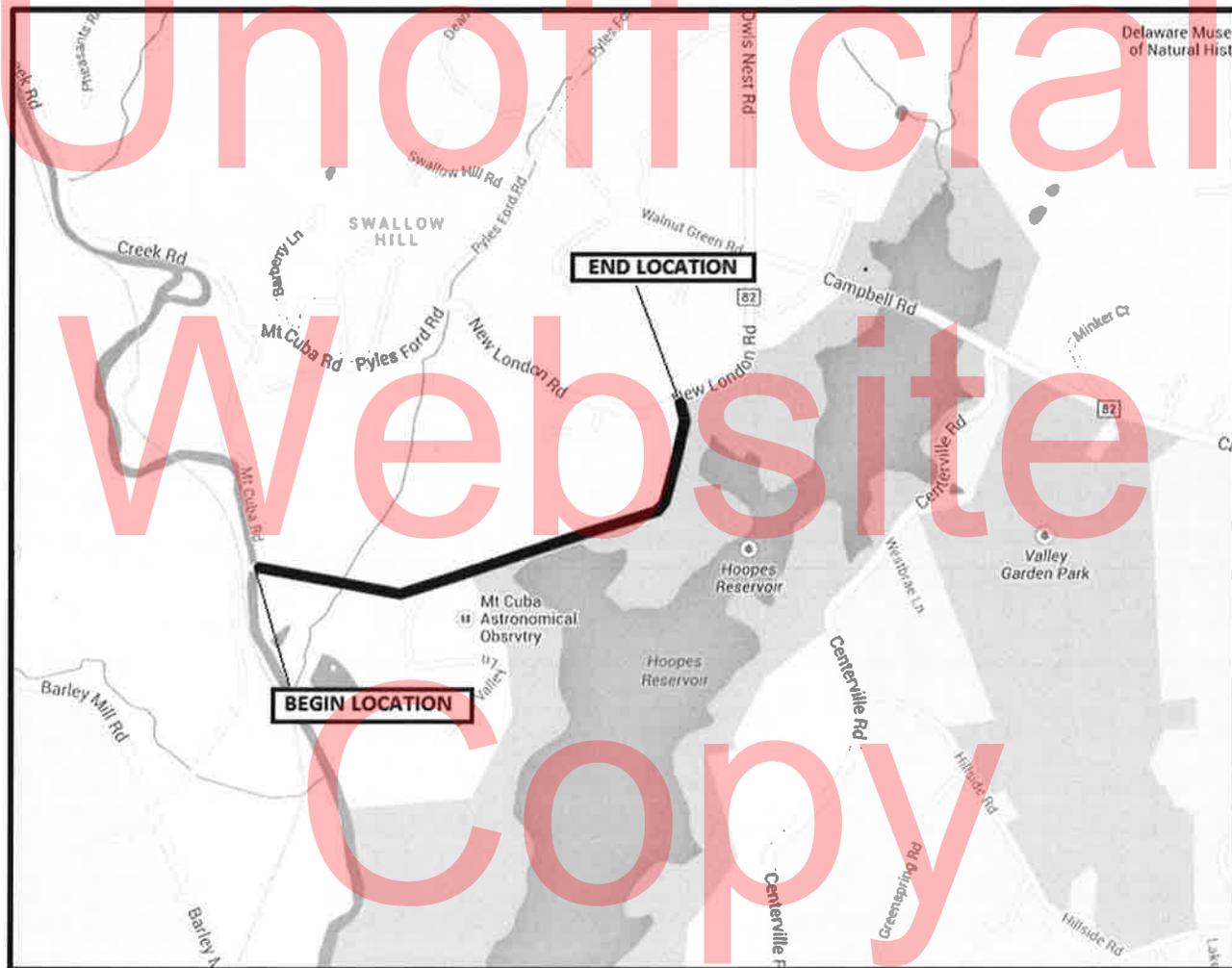
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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #8 – Hillside Mill Rd, from Mt. Cuba Rd, to Rt 82



CONTRACT T201506701

NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 8

HILLSIDE MILL RD FROM MT CUBA RD TO RT 82

LENGTH 1.3355 km 0.83 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 8

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	25.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	7,900.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	500.00 SY-IN
406507	CRACK SEALING	2,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	100.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00 HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.

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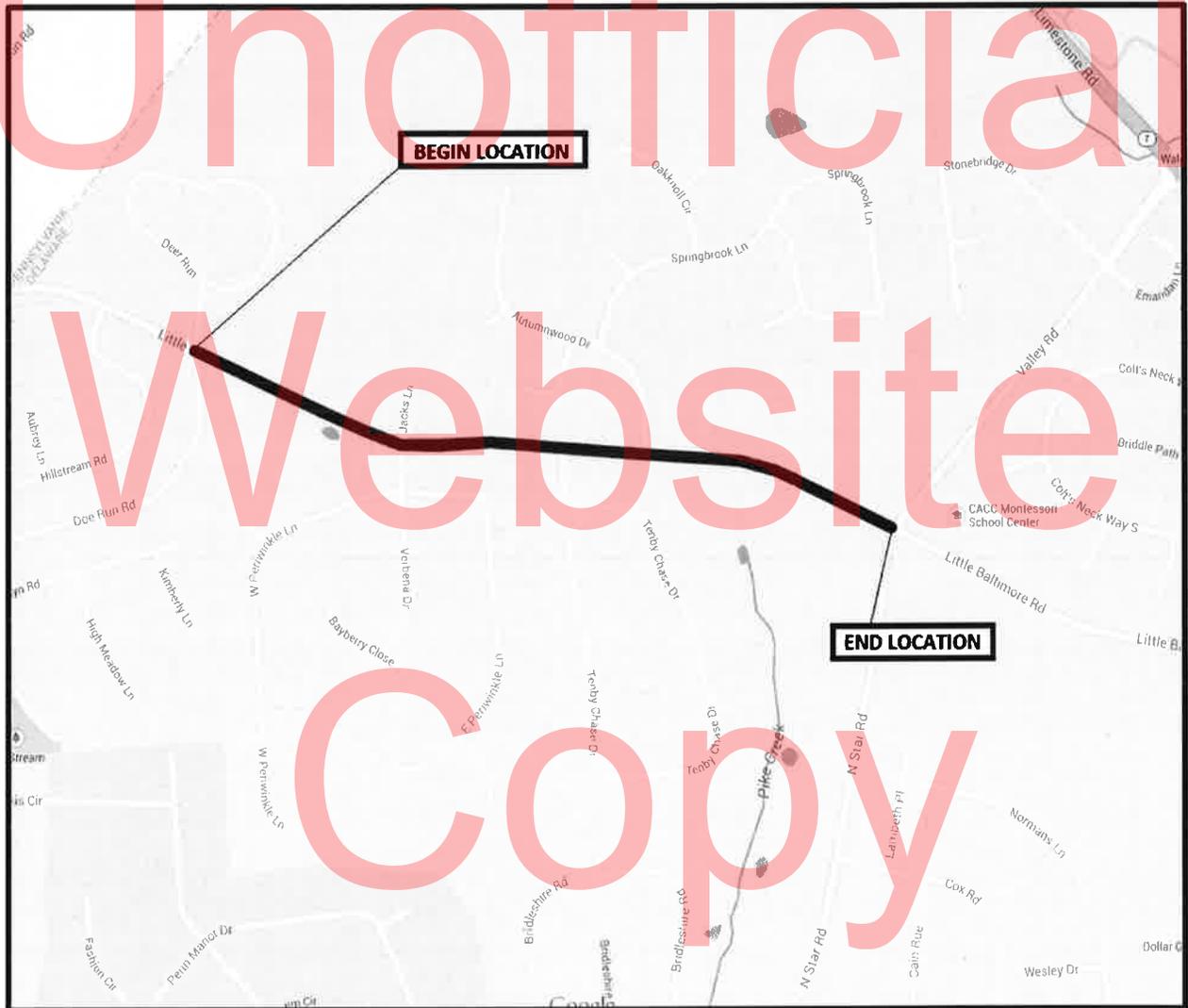
CONTRACT NUMBER – T201506701

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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #9 – Little Baltimore Rd, from Doe Run Rd to Valley Rd



NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 9

LITTLE BALTIMORE RD FROM VALLEY RD TO DOE RUN RD

LENGTH 1.2872 km 0.8 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING, AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 9

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, F 64-22, PATCHING	100.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	12,800.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	1,000.00 SY-IN
406507	CRACK SEALING	4,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	100.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	20.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	60.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	8,200.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	60.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	1,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	8,100.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	400.00 L.F.

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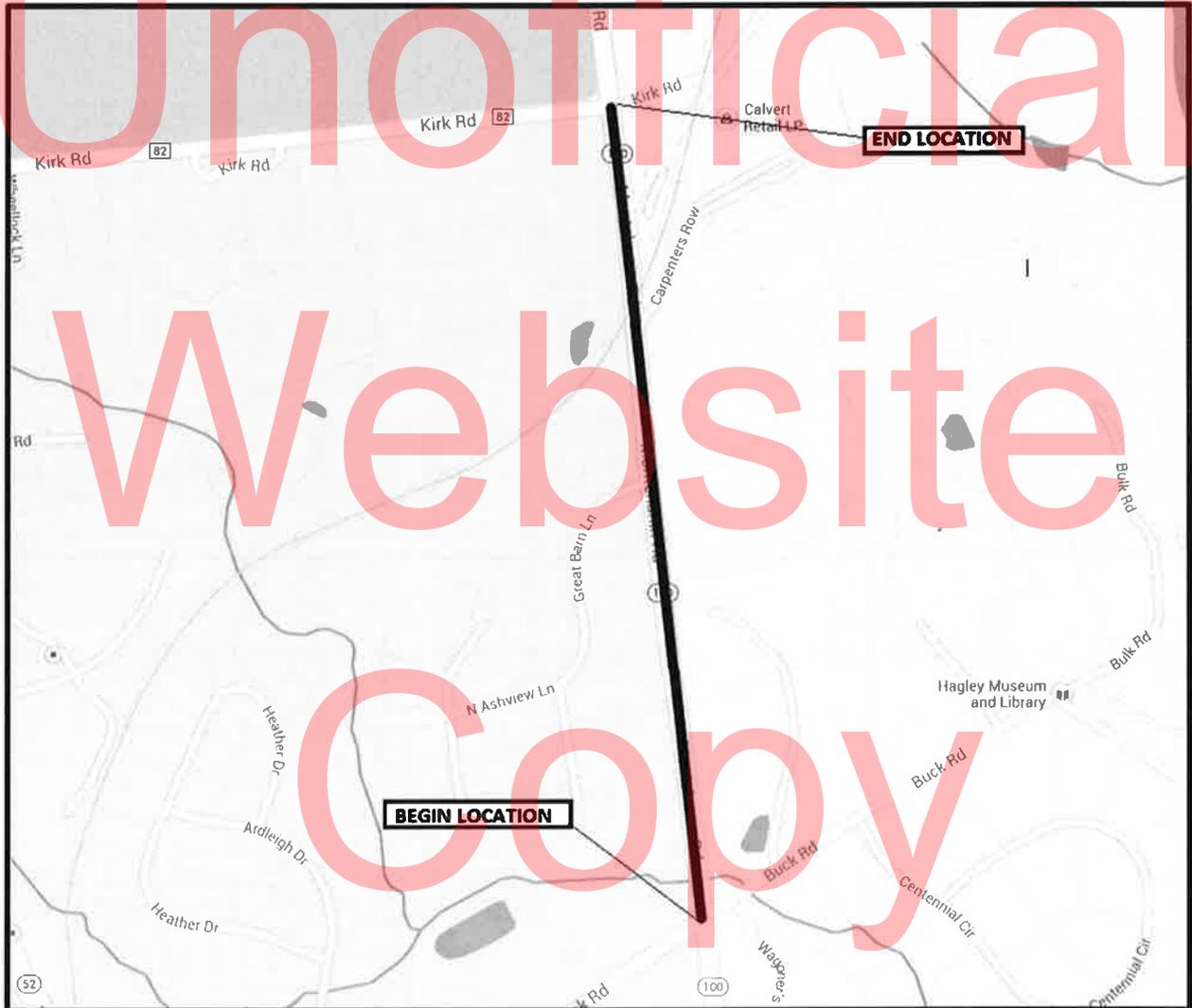
CONTRACT NUMBER- T201506701

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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #10 – Montchanin Rd, from Buck Rd to Kirk Rd



NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 10

MONTCHANIN RD FROM BUCK RD TO KIRK RD

LENGTH 1.1263 km 0.7 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING, AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 10

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	100.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	9,100.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	1,000.00 SY-IN
406507	CRACK SEALING	7,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	150.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	260.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	14,400.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	260.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	2,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	14,300.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.

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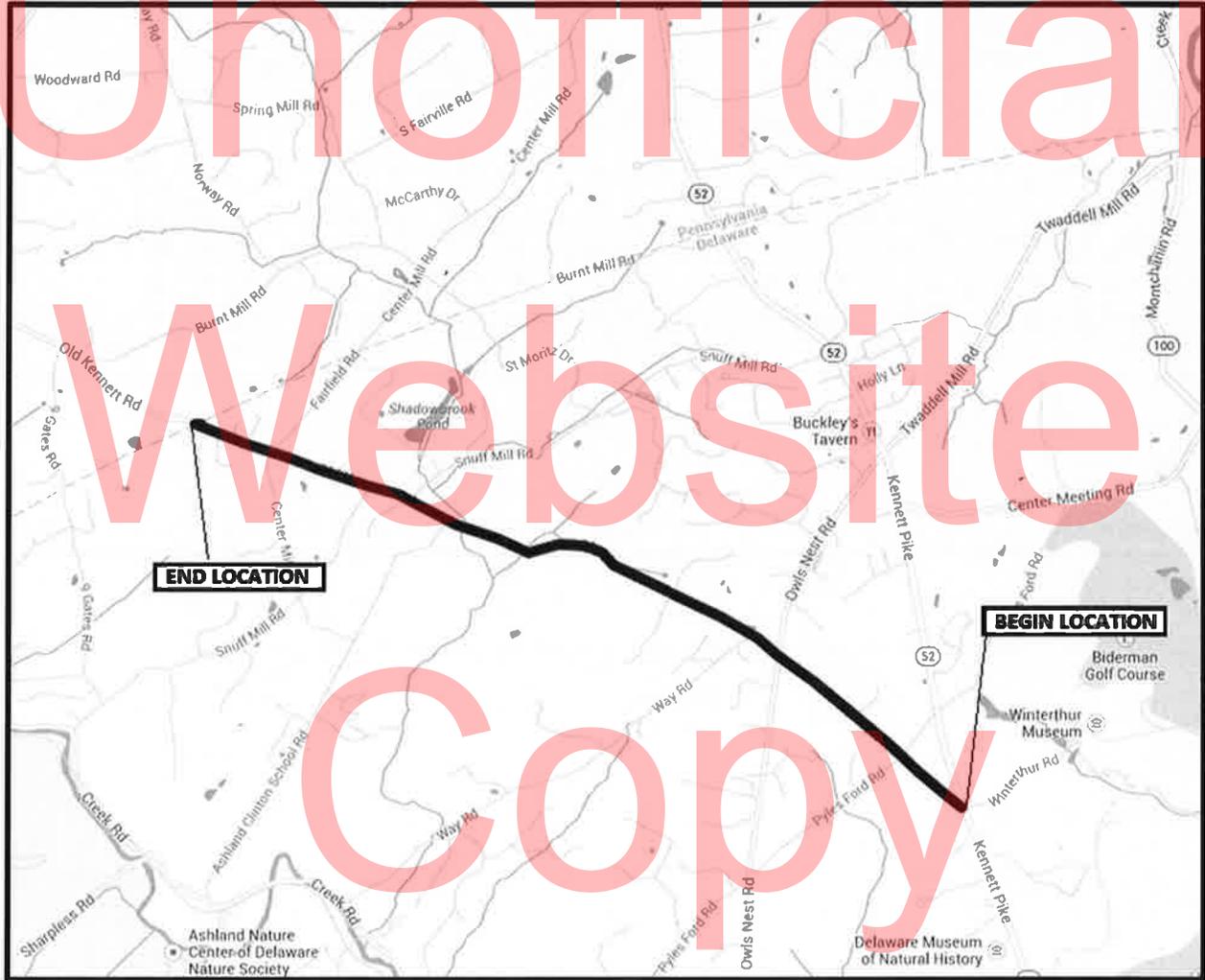
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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #11 - Old Kennett Rd, from Kennett Pike to PA Line



CONTRACT T201506701

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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 11

OLD KENNETT RD FROM KENETT PIKE TO PA LINE

LENGTH 4.6983 km 2.92 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING, AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 11

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	300.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	37,800.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	2,000.00 SY-IN
406507	CRACK SEALING	7,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	700.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	20.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	130.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	38,600.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	130.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	3,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	38,500.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	600.00 L.F.

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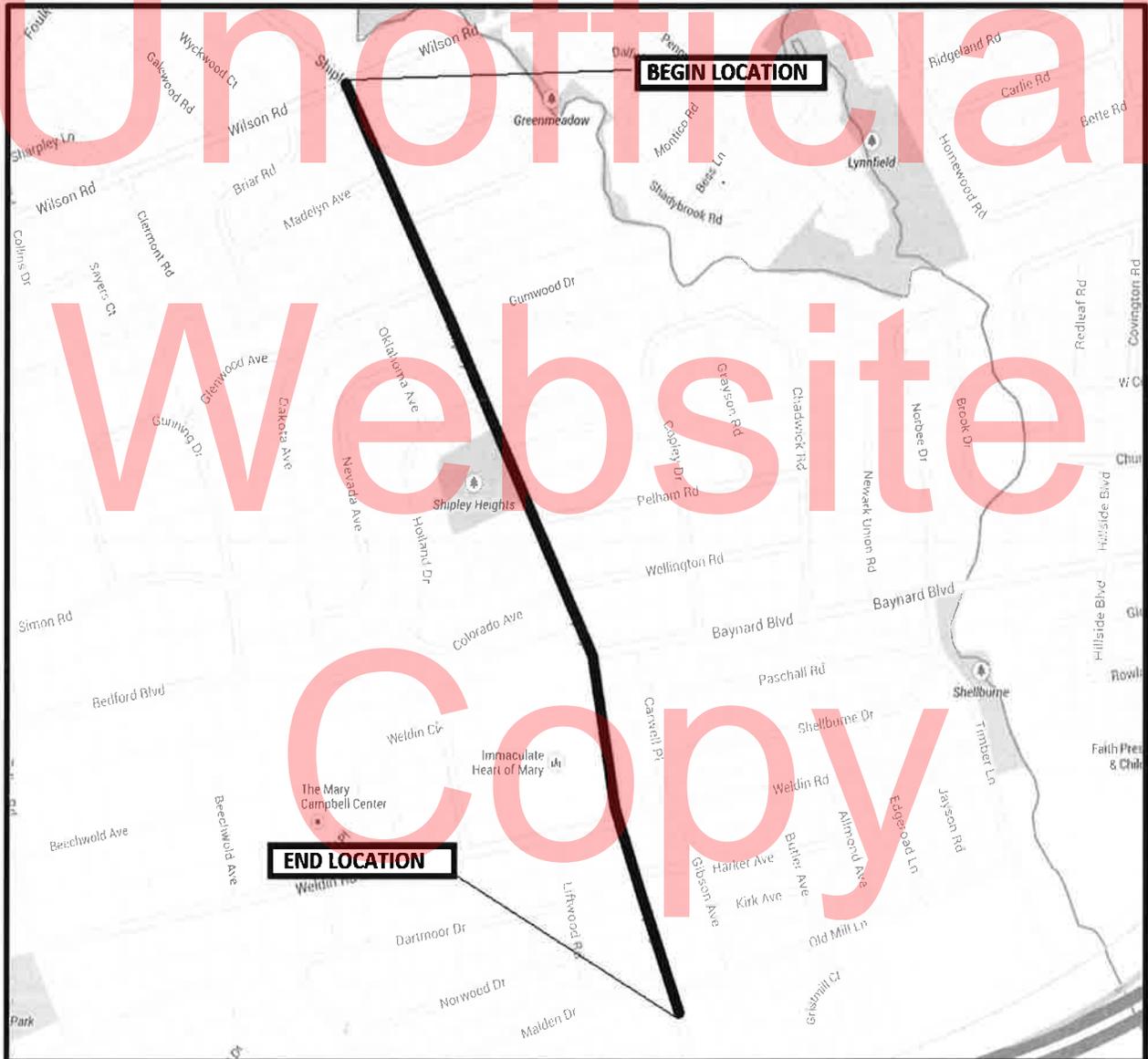
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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #12 - Shipley Rd, from Shipley Rd to Wilson Rd



CONTRACT T201506701

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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 12

SHIPLEY RD FROM WILSON RD TO SHIPLEY RD

LENGTH 1.5125 km 0.94 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING, AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 12

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	200.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	14,000.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	2,000.00 SY-IN
406507	CRACK SEALING	4,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	200.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00 HOUR
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	230.00 L.F.
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	160.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	18,000.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	160.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	1,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	17,800.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	200.00 L.F.

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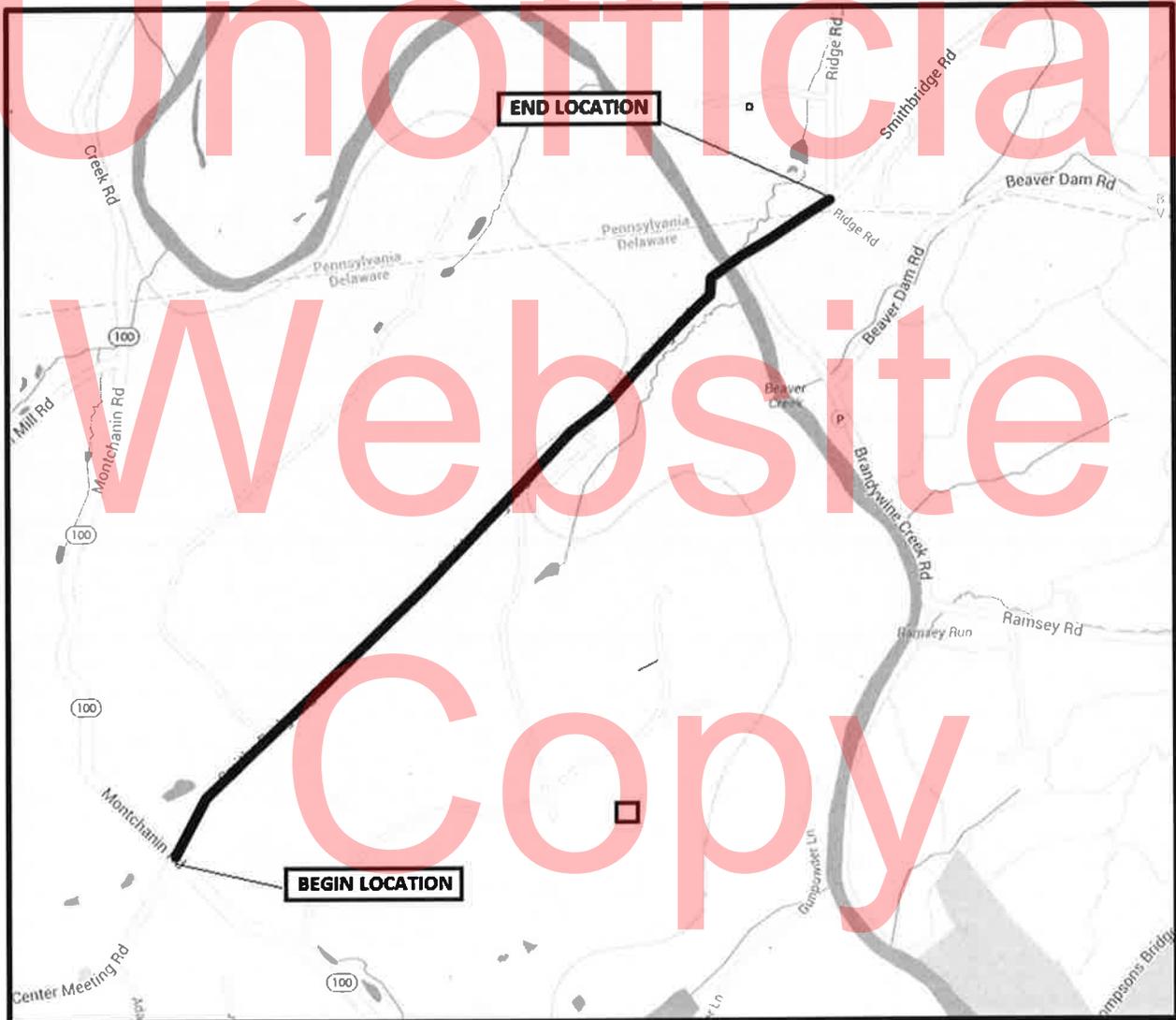
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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #13 - Smiths Bridge Rd, from Rt 100 to Ridge Rd



CONTRACT T201506701

NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 13

SMITH BRIDGE RD FROM RT 100 TO RIDGE RD

LENGTH 3.1215 km 1.94 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 13

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	25.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	19,900.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	500.00 SY-IN
406507	CRACK SEALING	3,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	100.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	20.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	25.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	17,000.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	25.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	1,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	16,500.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00 L.S.

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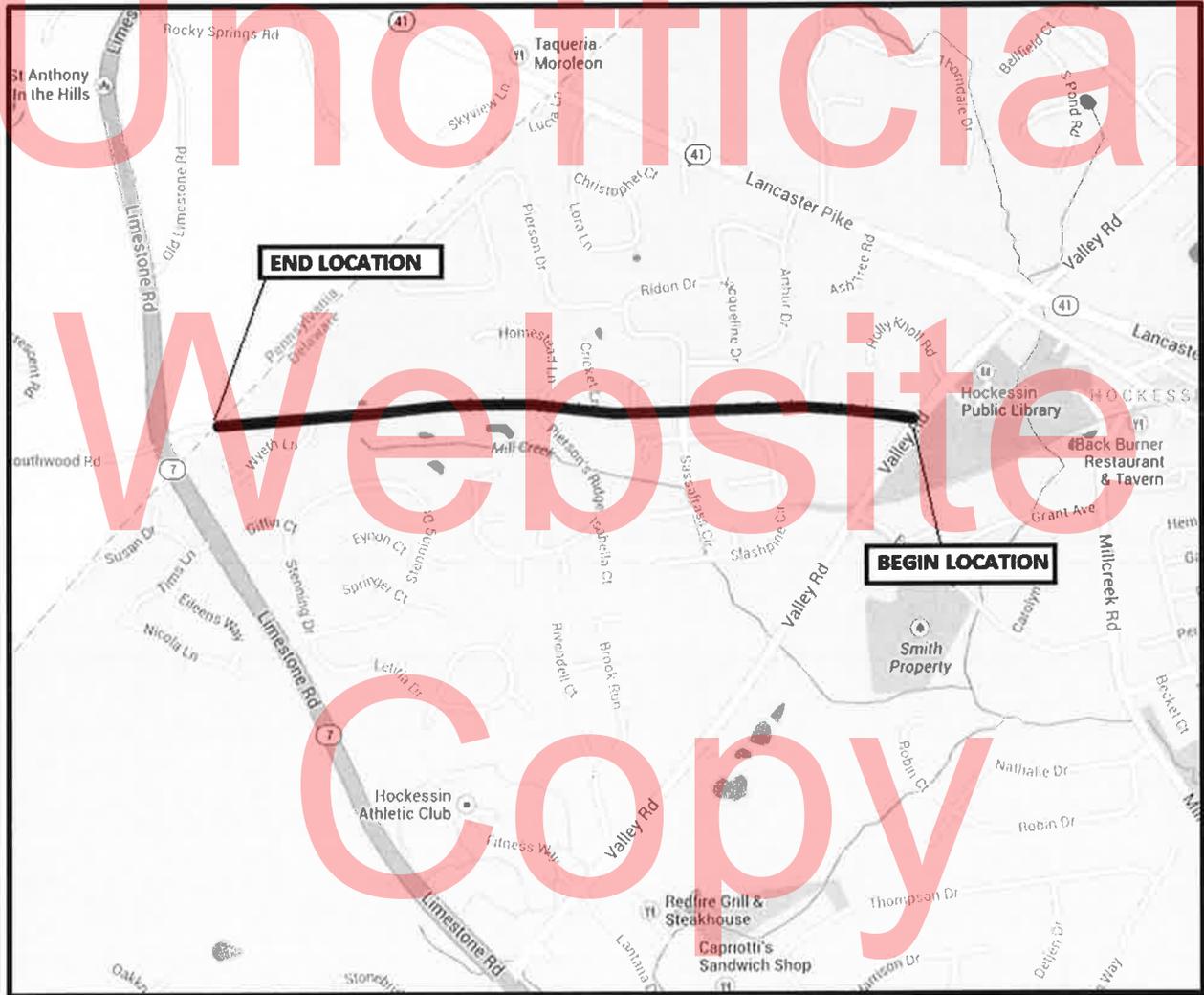
CONTRACT NUMBER – T201506701

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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #14 – Southwood Rd, from Valley Rd to PA Line



CONTRACT T201506701

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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 14

SOUTHWOOD RD FROM VALLEY RD TO PA LINE

LENGTH 1.7377 km 1.08 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 14

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, F 64-22, PATCHING	25.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	14,800.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	500.00 SY-IN
406507	CRACK SEALING	3,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	100.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	20.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	50.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	22,500.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	50.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	1,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	22,400.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.

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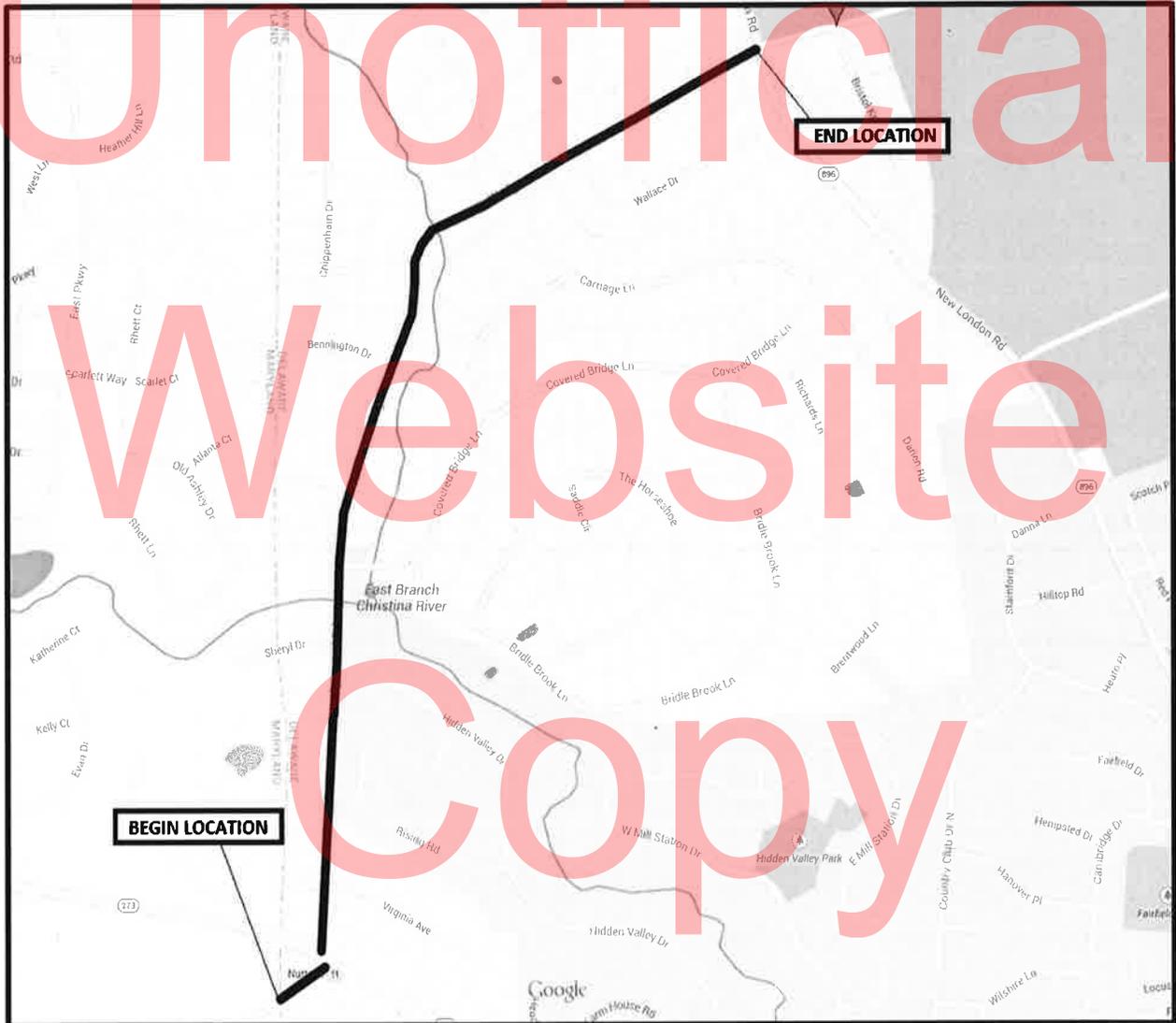
CONTRACT NUMBER – T201506701

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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #15 – Wedgewood Rd, from MD Line to New London Rd



CONTRACT T201506701

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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 15

WEDGEWOOD RD FROM MD LINE TO TWEEDS MILL RD

LENGTH 2.1882 km 1.36 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING, AND MICROSURFACING

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 15

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	200.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	14,800.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	2,000.00 SY-IN
406507	CRACK SEALING	10,000.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	150.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	100.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	13,000.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	100.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	2,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	12,900.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	200.00 L.F.

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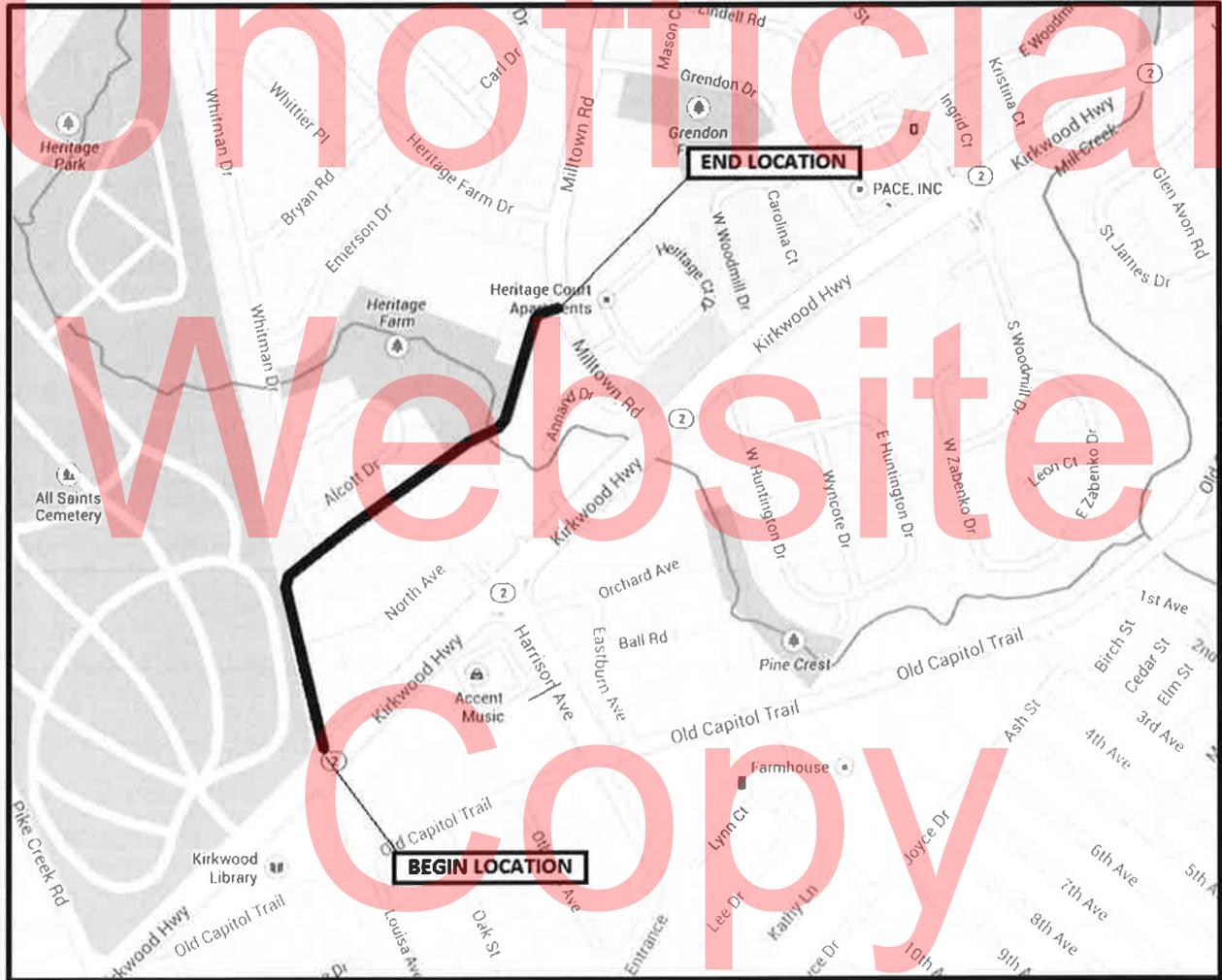
CONTRACT NUMBER – T201506701

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VARIOUS ROADS IN NORTH DISTRICT

LOCATION MAP

Location #16 – Wollaston Rd/Old Milltown Rd, from Kirkwood Hwy to Milltown Rd



CONTRACT T201506701

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NORTH
MAINTENANCE

MICRO-SURFACING, NORTH, FY15-FY16

LOCATION 16

WOLLASTON RD FROM KIRKWOOD HWY TO MILLTOWN RD

LENGTH 0.885 km 0.55 MILE

GENERAL IMPROVEMENTS

WARM MIX PATCHING, CRACK SEALING AND MICROSURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 16

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, P 64-22, PATCHING	25.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	6,700.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	500.00 SY-IN
406507	CRACK SEALING	3,000.00 L.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	50.00 S.F.
705008	CURB RAMP, TYPE 1	200.00 S.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	80.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	25.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	1,200.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	25.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	500.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,100.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00 L.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201506701

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**NORTH MICRO-SURFACING, NORTH, FY15-FY16
MAINTENANCE**

CONTRACT QUANTITIES SUMMARY SHEET

401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1,800.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING	248,950.00 S.Y.
406001	BITUMINOUS CONCRETE PATCHING	17,300.00 SY-IN
406507	CRACK SEALING	75,000.00 L.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	50.00 S.F.
705008	CURB RAMP, TYPE 1	200.00 S.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	160.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00 EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	3,230.00 HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	225.00 HOUR
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	805.00 L.F.
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	1,185.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	226,300.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	1,185.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	20,000.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	224,050.00 L.F.
762001	SAW CUTTING, BITUMINOUS CONCRETE	3,800.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00 L.S.
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM