

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRANSPORTATION SOLUTIONS  
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201306702 CANAL  
FEDERAL AID NUMBER- NONE  
CONTRACT TITLE- MICRO-SURFACING, CANAL FY 2013

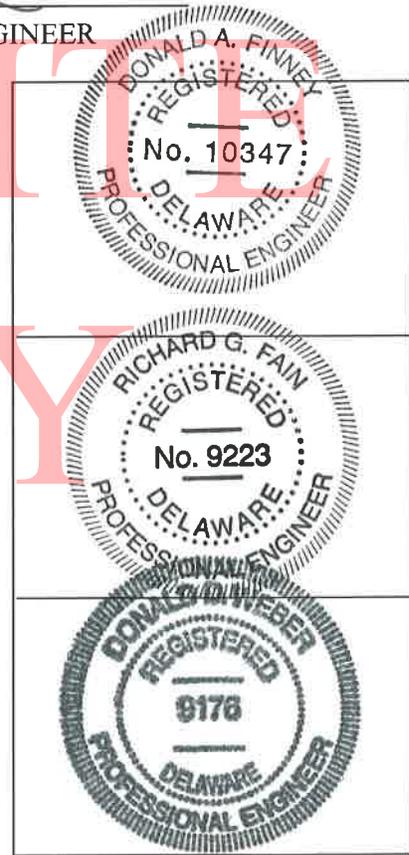
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PLANS PREPARED BY: Sonyz Lett  
CANAL DISTRICT DESIGN ENGINEER

DATE RECOMMENDED: 9.27.13  
[Signature]  
CANAL DISTRICT CONTRACTS ENGINEER

DATE RECOMMENDED: 10/2/13  
[Signature]  
CANAL DISTRICT MAINTENANCE ENGINEER

DATE APPROVED: 10/4/13  
[Signature]  
CANAL DISTRICT ENGINEER



UNOFFICIAL  
WEBSITE  
COPY

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DEPARTMENT OF TRANSPORTATION

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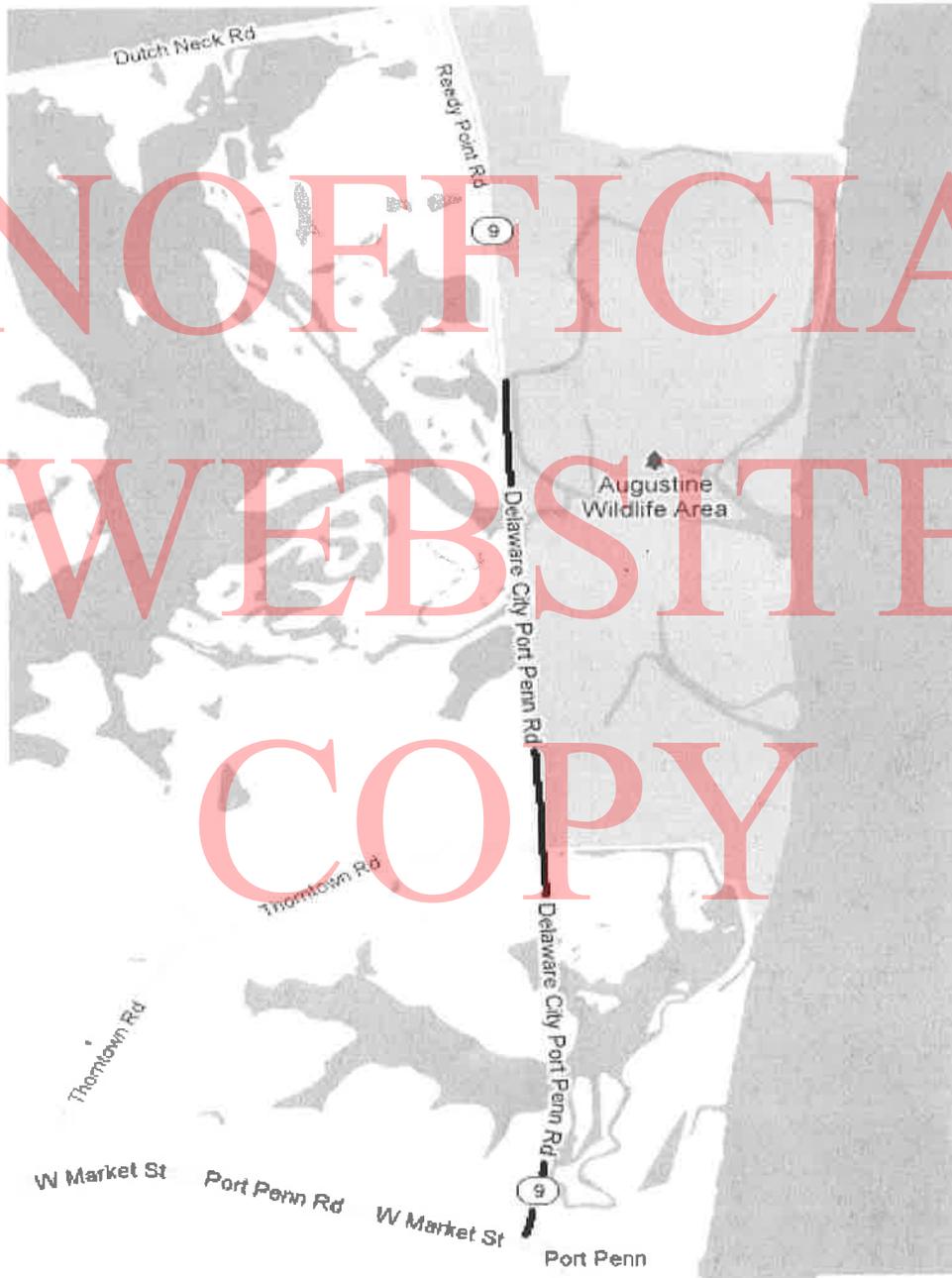
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VARIOUS LOCATIONS

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LOCATION MAP



LOCATION 1-PORT PENN ROAD

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VARIOUS LOCATIONS

LOCATION MAP



LOCATION 2-MECHANIC ST

VARIOUS LOCATIONS

LOCATION MAP



LOCATION 3-POLKTOWN PLACE

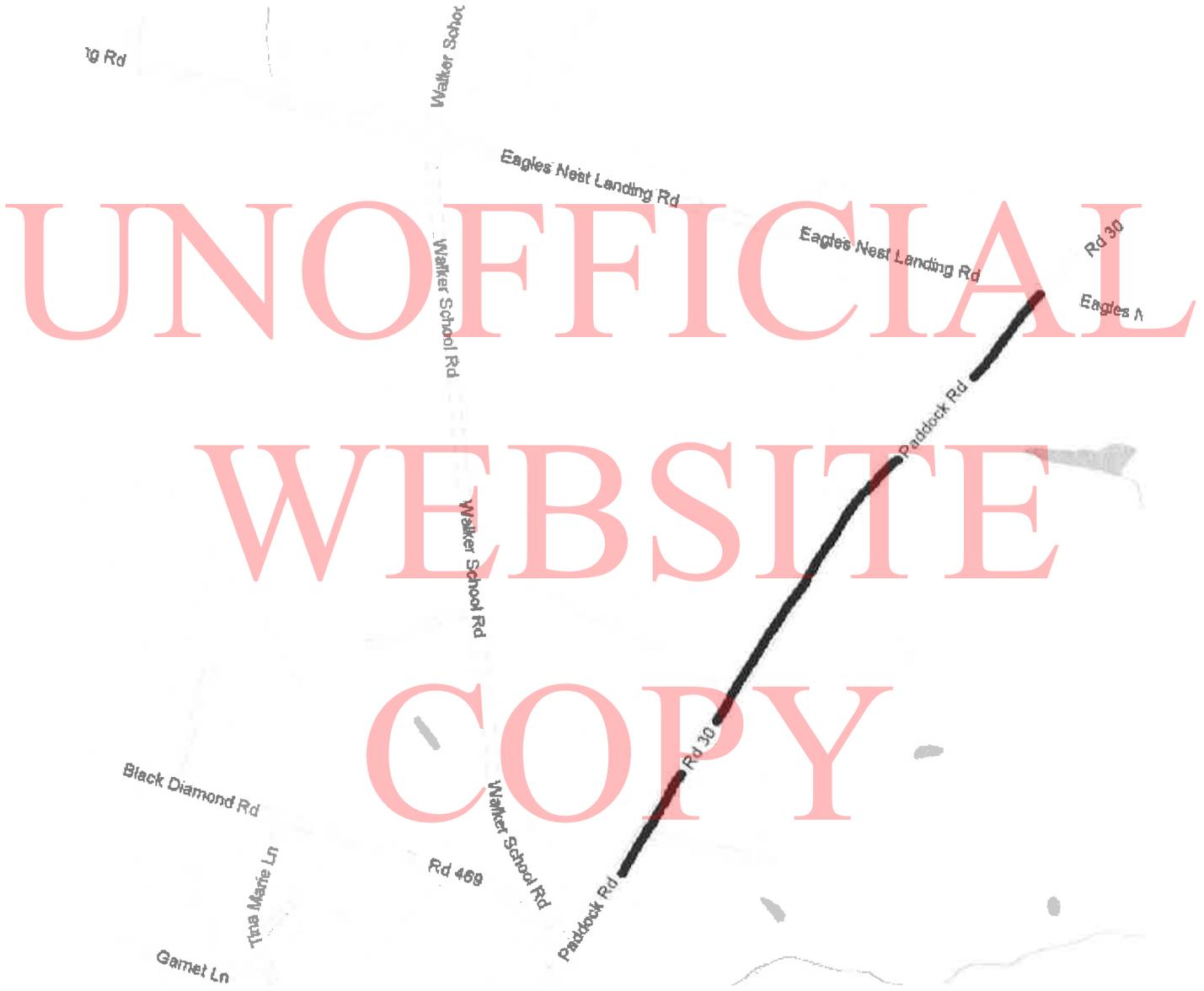
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LOCATION MAP



LOCATION 4-PADDOCK ROAD

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VARIOUS LOCATIONS

LOCATION MAP



LOCATION 5-OLD KIRKWOOD ROAD

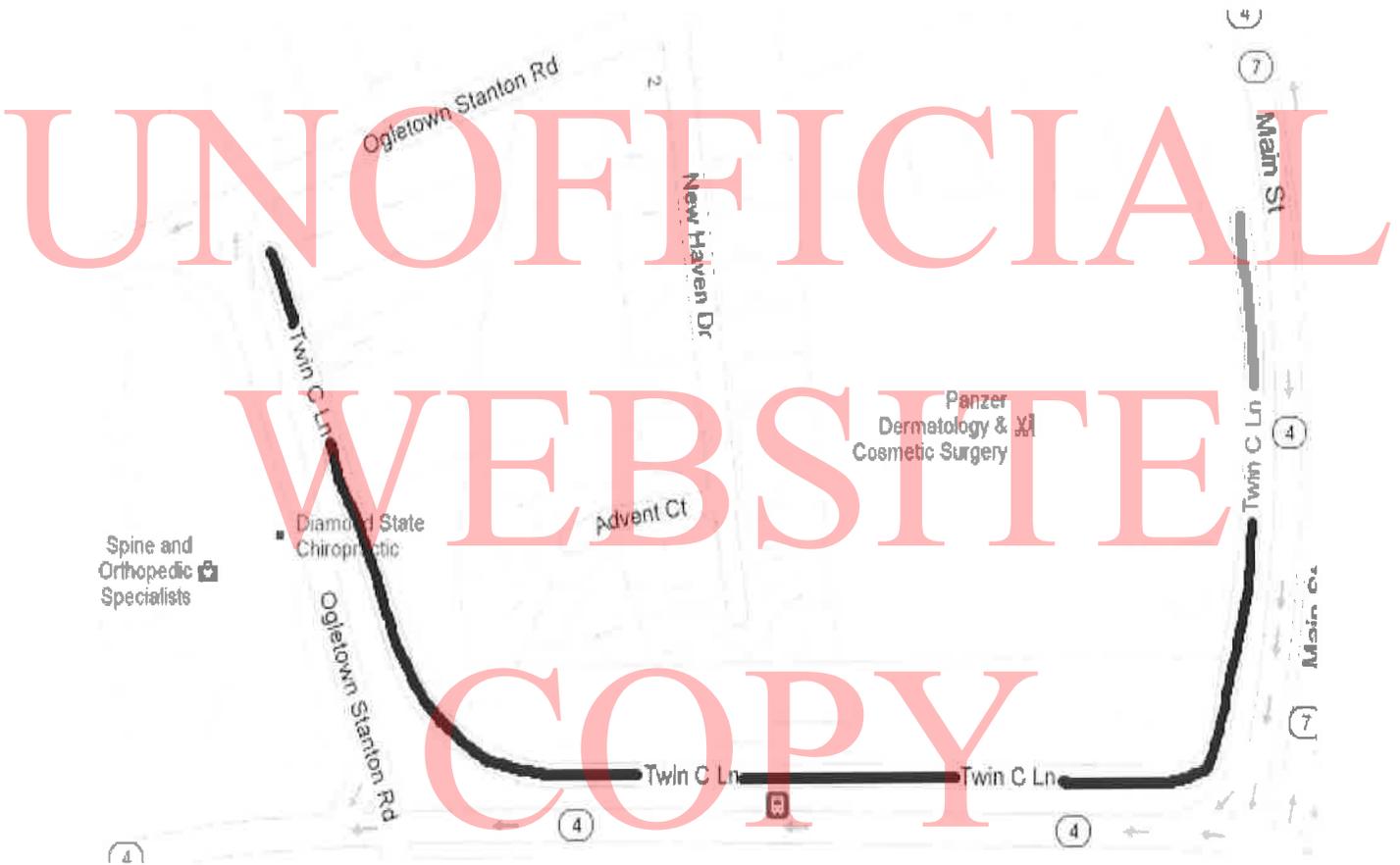
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LOCATION MAP



LOCATION 6-TWIN C ROAD

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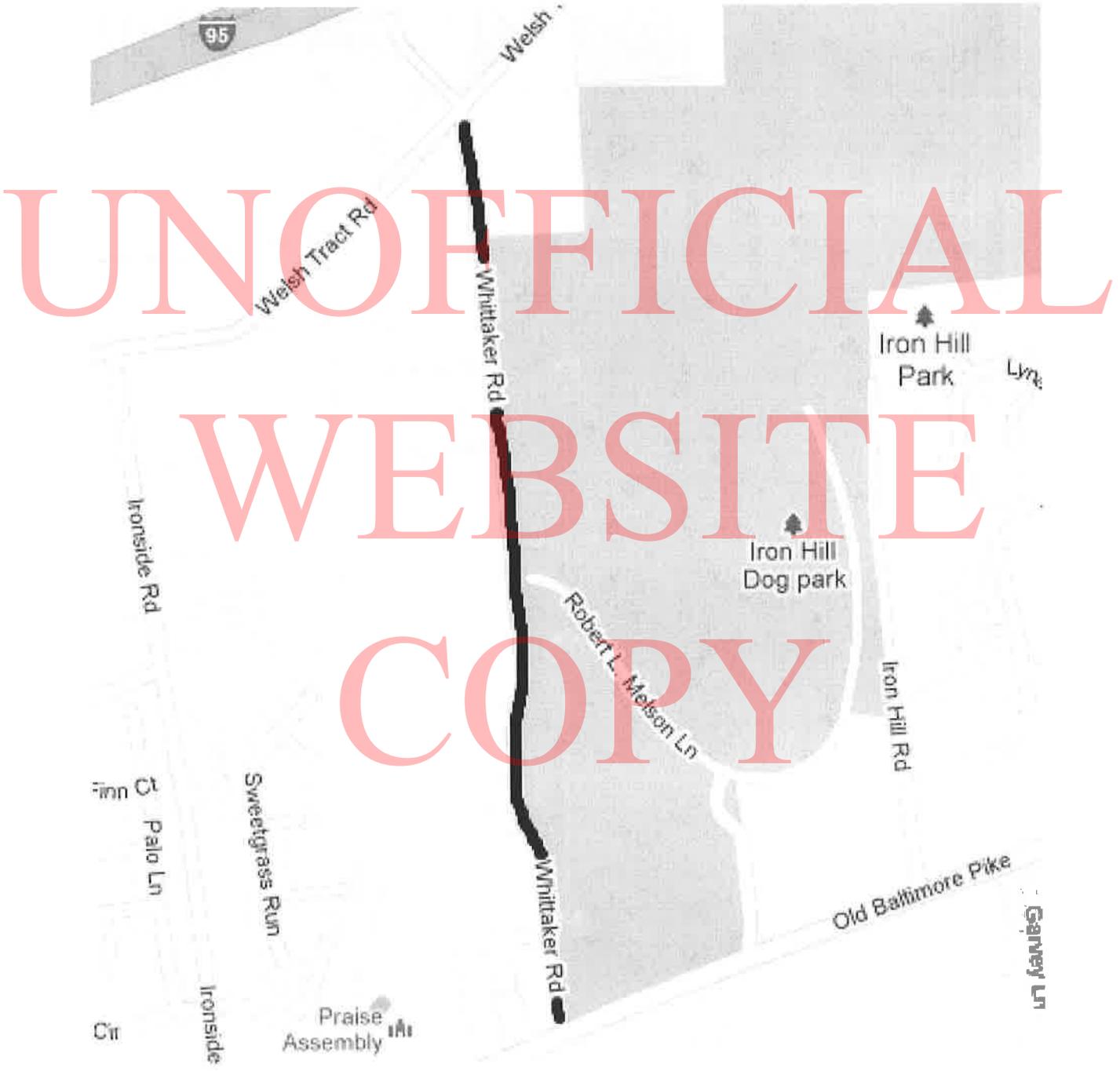
LOCATION MAP



LOCATION 7-VANCE NECK ROAD

VARIOUS LOCATIONS

LOCATION MAP



LOCATION 8-WHITAKER ROAD

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VARIOUS LOCATIONS

LOCATION MAP



LOCATION 9-DEL LAWS ROAD

VARIOUS LOCATIONS

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LOCATION 10-SHALLCROSS LAKE ROAD

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LOCATION MAP



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LOCATION 11-CHURCHTOWN ROAD

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LOCATION 12-UNION CHURCH ROAD

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LOCATION MAP



LOCATION 13-GREARS CORNER ROAD

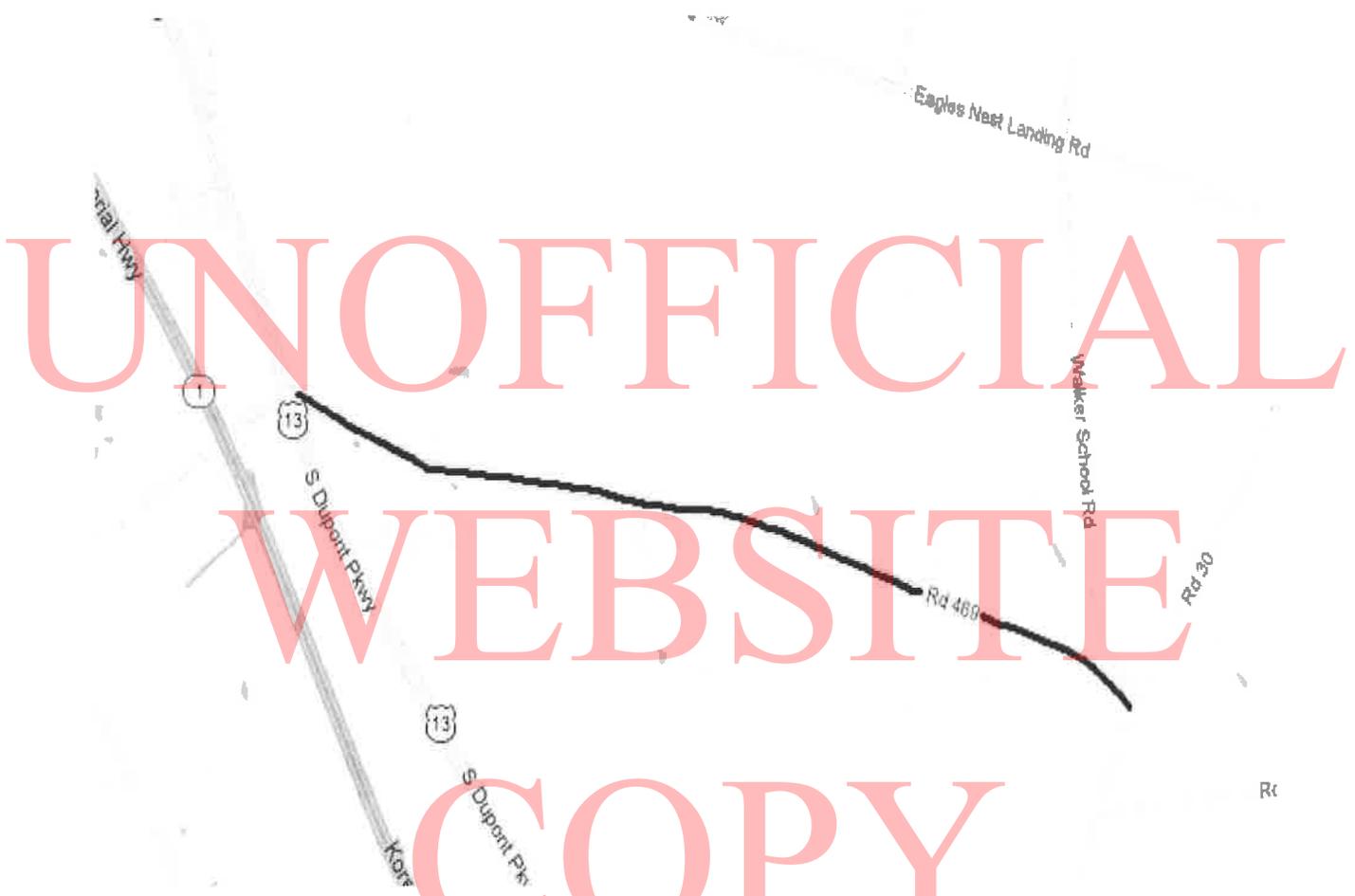
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LOCATION MAP



LOCATION 14-BLACK DIAMOND ROAD

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VARIOUS LOCATIONS

LOCATION MAP



LOCATION 15-ANCHOR INN ROAD

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**GENERAL CONTRACT PLAN NOTES**

**SECTION 100**

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DETAILS, DATED 2001 INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

2. THE PURPOSE OF THIS CONTRACT IS TO MAKE GENERAL IMPROVEMENTS TO ROADS AND/OR STREETS WITHIN THE DISTRICT HEREIN SPECIFIED. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE LOCATIONS AND/OR QUANTITIES FOR THIS CONTRACT. SUCH ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. NO ITEM PRICES ARE TO BE RENEGOTIATED DUE TO EITHER AN INCREASE OR DECREASE IN QUANTITY USAGE RESULTING FROM SAID ADDITIONS OR DELETIONS.

3. LOCATION LISTINGS INDICATE GENERAL LIMITS OF CONSTRUCTION, MAJOR TYPES OF IMPROVEMENTS, AND ESTIMATED QUANTITIES. DURING THE BIDDING PERIOD, ANY QUESTIONS PERTAINING TO LOCATIONS SHALL BE DIRECTED TO THE CONTRACT ADMINISTRATOR. AFTER THE AWARD, SUCH QUESTIONS SHALL BE REFERRED TO THE APPROPRIATE DISTRICT ENGINEER OR HIS REPRESENTATIVE.

4. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04 PRIOR TO OR AT THE PRECONSTRUCTION MEETING. DETAILS SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE PLANNED DAYS OF WORK, MULTIPLE CREWS OR SHIFTS, AND SCHEDULED WORKING HOURS. DURING THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/ MANAGER NO LATER THAN NOON OF EACH THURSDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

5. 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.

**SECTION 300**

6. SECTION 302007, GRADED AGGREGATE BASE COURSE TYPE B, SHALL BE USED AS BASE MATERIAL FOR NEW CONSTRUCTION OF P.C.C. CURBS, SIDEWALK, AND VALLEY GUTTER.

**SECTION 400**

7. THE COST OF CLIPPING BACK THE EDGES OF THE ROADWAY, SHOULDERS, AND THE FIRST 3' OF UNPAVED DRIVEWAY ENTRANCES, PICKING UP AND DISPOSING OF WASTE AND EXCESS MATERIAL, AND CLEANING THE EXISTING PAVEMENT PRIOR TO AN OVERLAY SHALL BE INCIDENTAL TO SECTION 401( ). PREPARING UNPAVED DRIVEWAY ENTRANCES BEYOND THE FIRST 3' SHALL BE PAID UNDER THE APPROPRIATE CONTRACT ITEMS: 202000 AND/OR 30200X. UNLESS SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

8. AS DIRECTED BY THE DELDOT MATERIALS AND RESEARCH SECTION, LIFT THICKNESS WILL CONFORM TO THE FOLLOWING MINIMUM AND MAXIMUM DEPTHS. TYPE C: 1.25" to 2.00"; TYPE B: 2.25" to 3.00";

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**GENERAL CONTRACT PLAN NOTES**

BCBC: 3.00" to 6.00".

**SECTION 700**

9. PAYMENT FOR SECTION 762001 - SAW CUTTING HOT MIX SHALL BE A SEPARATE PAY ITEM WHETHER OR NOT AN OVERLAY IS A PART OF THE PROPOSED IMPROVEMENTS (WITH THE EXCEPTION OF BUTT JOINTS, DETAILS, AND NOTES TO THE CONTRARY).

10. BUTT JOINTS SHALL BE CONSTRUCTED AT ALL INTERSECTING HOT MIX ROADS AND ANY OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. BUTT JOINTS AT RAILROAD CROSSINGS AND AT BRIDGE OR DRAINAGE STRUCTURES NOT TO BE RESURFACED SHALL BE AS PER THE INCLUDED PLAN DETAIL. BUTT JOINTS CUT PRIOR TO THE DAY OF THE PAVEMENT OVERLAY SHALL BE RAMPED WITH HOT MIX TRM INCIDENTAL TO ITEM 761001 BUTT JOINT. ONLY HOT MIX WILL BE ALLOWED FOR THIS PURPOSE. BUTT JOINTS, IN FULL MILL AREAS SHALL BE INCIDENTAL TO THE PAVEMENT MILLING ITEM. ALL HOT MIX TRM SHALL BE REMOVED PRIOR TO THE PAVING OPERATION.

11. WHERE IMPROVEMENTS CALL FOR PLACEMENT OF A 3.5" (90 mm) HOT MIX OVERLAY IT SHALL BE INTERPRETED AS 2 SEPARATE LIFTS. (1.25" (30 mm) TYPE C HOT MIX PLACED OVER 2.25" (60 mm) OF TYPE B HOT MIX)

12. TAPER MILL IMPLIES PAVEMENT MILLING IN THE AREA OF FIXED STRUCTURES, SUCH AS CURBING, WHERE THE MILLED DEPTH AT THE STRUCTURE WILL BE THE DEPTH OF THE PROPOSED OVERLAY AND ZERO INCHES (ZERO mm) AT 6 FEET +/- (2 METERS +/- ) AWAY FROM THE STRUCTURE. MILLED DEPTH COMPUTATION WILL BE THE AVERAGE OF THESE TWO.

13. MILLED MATERIAL, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. LATERAL GRADE ADJUSTMENTS IN FULL WIDTH PAVEMENT MILLING OPERATIONS SHALL BE PAID UNDER ITEM 760000 OR 760006 WHICHEVER IS SPECIFIED OR DIRECTED BY THE ENGINEER AT THAT PARTICULAR LOCATION.

14. AFTER PAVEMENT MILLING, ALL RAISED EDGES OF MANHOLES, DRAINAGE INLETS, WATER VALVE BOXES, ETC. SHALL BE RAMPED WITH HOT MIX TRM AT A 20:1 OR FLATTER SLOPE INCIDENTAL TO ITEM 760507 PROFILE MILLING. ALL ADJUSTMENTS SHALL BE MADE NOT MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO THE PLACEMENT OF THE FINAL COURSE OF HOT-MIX PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. PAVEMENT MILLING OR COLD PATCH MATERIAL WILL NOT BE ALLOWED FOR THIS PURPOSE. ALL HOT MIX TRM SHALL BE REMOVED PRIOR TO THE PAVING OPERATIONS.

15. PAVING IS TO BE COMPLETED CURB TO CURB INCLUDING TURN LANES AND INTERSECTIONS WITHIN SEVEN (7) CALENDAR DAYS OF PAVEMENT MILLING FOR A PARTICULAR DAYS PAVEMENT MILLING LOCATION. THIS RESTRICTION APPLIES TO EACH DAYS PAVEMENT MILLING OPERATION, NOT AN ENTIRE PROJECT LOCATION. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

16. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURB EDGES, ETC., WHEN CLEANING AFTER A PAVEMENT MILLING OPERATION. CARE SHOULD BE TAKEN SO AS NOT TO GOUGE OR DIG DEEPER THAN THE REQUIRED DEPTH. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR PLACING LEVELING COURSES AT HIS OWN EXPENSE.

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**GENERAL CONTRACT PLAN NOTES**

17. THE BASIS OF MEASUREMENT AND PAYMENT FOR ITEM 760006 - PAVEMENT MILLING, 2" (50 mm) DEPTH, SHALL INCLUDE AN AVERAGE OF THE MILLED DEPTH PER LOCATION FROM 1" (25 mm) TO 2.25" (56 mm) (INCLUSIVE) FOR MEASUREMENT AND PAYMENT PURPOSES. PAYMENT FOR PAVEMENT MILLING DEPTHS WHOSE AVERAGE IS GREATER THAN 2.25" (56 mm) SHALL BE NEGOTIATED BY THE ENGINEER.

18. WHERE IMPROVEMENTS CALL FOR HOT MIX MILLING AND OVERLAY BOTH SHALL BE INTERPRETED AS A TWO-INCH DEPTH UNLESS NOTED DIFFERENTLY IN THE CONTRACT LOCATION OR OTHERWISE DIRECTED BY THE ENGINEER OR HIS DESIGNEE.

19. DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 SHALL BE REPLACED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/ FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO 708060 REPLACING CATCH BASIN GRATES. FINAL PAYMENT FOR REPLACED GRATES/ FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.

20. EXCAVATION FOR THE REPLACEMENT OF P.C.C. CURBS, SIDEWALK OR VALLEY GUTTER SHALL BE INCIDENTAL TO THE PRICE BID FOR THESE RESPECTIVE ITEMS. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PROJECT. IN THE CASE OF NEW SIDEWALK EXCAVATION WILL BE PAID TO THE WIDTH OF THE NEW SIDEWALK UNDER ITEM 202000. ITEM 732004, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL FOR CURB AND SIDEWALK WHEN SO DIRECTED BY THE ENGINEER. WHEN REPLACEMENT OF CURB AND GUTTER HAS BEEN COMPLETED AND THE FORMS REMOVED AT EACH LOCATION OF THIS CONTRACT, BACKFILLING SHALL BE DONE IMMEDIATELY. COMPLETE RESTORATION, TOPSOIL, SEEDING, AND REMOVAL OF ALL MATERIALS FOR CURB & GUTTER OR SIDEWALK; SEALING OF VALLEY GUTTERS AND PARGING OF DRAINAGE INLETS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" SHOULD BE PRESENT IN MATERIAL USED FOR BACKFILL.

21. CURB RAMPS SHALL BE INSTALLED IN COMPLIANCE WITH THE MOST CURRENT DELAWARE STANDARD CONSTRUCTION DETAILS AT ALL EXISTING SIDEWALK LOCATIONS WITHIN THE LIMITS OF THE PROJECT AS DIRECTED BY THE ENGINEER IN THE FIELD. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE CURB RAMP TYPE.

22. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PARTIALLY SAW AND FILL WITH AN APPROVED SEALER EXISTING CRACKED CURB AND/OR SIDEWALK. THIS WORK WILL BE INCIDENTAL TO ITEM 762002 SAWCUT - CONCRETE FULL DEPTH.

23. PERTAINING TO PCC & PATCHING, SAWCUTTING IS TO BE PERFORMED PRIOR TO THE REMOVAL OF HOT MIX UNLESS APPROVAL IS GIVEN BY THE ENGINEERS REPRESENTATIVE.

24. AT EACH LOCATION, THE CONTRACTOR SHALL NOTE ALL EXISTING PAVEMENT MARKINGS AND SUBMIT A DRAWING WHICH DEPICTS THE STRIPING PATTERN TO THE DEPARTMENT PRIOR TO THE START OF ANY WORK AT THE LOCATION.

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**GENERAL CONTRACT PLAN NOTES**

INTERNATIONAL ("PIANO KEY") CROSSWALK SYMBOLS CONSISTENT WITH THE MOST CURRENT DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WILL BE PLACED AT ALL EXISTING CROSSWALK LOCATIONS OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE STRIPING ITEMS. THE CONTRACTOR WILL BE RESPONSIBLE TO CORRECT ANY ERRONEOUS MARKINGS IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS AND SHALL BE PLACED WITHIN FIVE (5) CALENDAR DAYS (MAXIMUM) AFTER PLACEMENT OF THE FINAL COURSE OF HOT MIX. 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 REGISTERED IN THE STATE OF DELAWARE.

AT THE END OF EACH DAYS OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY MARKINGS SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT MARKING, WHEN:

- A. EXISTING PAVEMENT IS MILLED AND HOT MIX WILL NOT BE PLACED THE SAME DAY;
- B. MORE THAN A SINGLE COURSE OF HOT MIX IS TO BE PLACED
- C. PERMANENT ROADWAY STRIPING CANNOT BE PLACED ON THE SAME DAY AS THE PLACEMENT OF THE FINAL COURSE OF HOTMIX.

TEMPORARY PAVEMENT STRIPING MUST MATCH PERMANENT PAVEMENT 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 TEMPORARY MARKINGS WILL BE AT THE CONTRACTOR'S EXPENSE.

PLACEMENT OF TEMPORARY MARKINGS SHALL RECEIVE PRIOR APPROVAL FROM THE ENGINEER. PAYMENT FOR TEMPORARY PAVEMENT MARKING SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 748(xxx) - TEMPORARY MARKINGS, FOR CONDITIONS A ,B & C LISTED ABOVE.

ALL TEMPORARY OR PERMANENT WARNING SIGNS WILL BE COVERED WITH RETROFLECTIVE FLUORESCENT SHEETING ON ALUMINUM PANELS, ELIMINATING THE NEED FOR TYPE "B" WARNING LIGHTS ON THESE SIGNS. ALL OF THESE SIGNS SHALL BE MOUNTED ON BREAKAWAY POSTS SUCH THAT THE BOTTOM OF THE SIGN IS 7 FEET ABOVE THE GROUND UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

25. THE CONTRACTOR, WITH THE ENGINEER, SHALL INVENTORY ALL SIGNS ON ALL ROADS SUBJECT TO IMPROVEMENTS. NECESSARY SIGNS SHALL BE MAINTAINED IN OPERATION DURING CONSTRUCTION AND ANY OTHER SIGNS SHALL BE PROPERLY STORED WITH THE CONTRACTOR, WHO SHALL BE RESPONSIBLE FOR LOSS OR DAMAGE. IMMEDIATELY PRIOR TO FINAL INSPECTION, THE CONTRACTOR AND ENGINEER SHALL AGAIN INVENTORY THE TRAFFIC SIGNS AND ACCOUNT FOR ANY LOST OR DAMAGED SIGNS. LOST OR DAMAGED SIGNS, AT THE DISCRETION OF THE ENGINEER SHALL BE REPLACED IN KIND AT THE CONTRACTORS EXPENSE.

26. WORK SHALL BE PERFORMED IN A MANNER THAT WILL ENSURE THE LEAST PRACTICAL OBSTRUCTION TO THE TRAVELING PUBLIC, CONSISTENT WITH SAFETY STANDARDS AND SHALL COMPLY WITH THE REQUIREMENTS OF THE MOST CURRENT DELAWARE MANUAL ON UNIFORM

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**GENERAL CONTRACT PLAN NOTES**

TRAFFIC CONTROL DEVICES (MUTCD) PART 6, HEREIN REFERRED TO AS THE TRAFFIC CONTROL MANUAL (INCLUDING REVISIONS IN EFFECT AT THE TIME OF ADVERTISEMENT FOR BIDS).

27. THE CONTRACTOR SHALL PROVIDE RESIDENTS WITH 24 HR. PRIOR WRITTEN NOTICE FOR ALL PHASES OF CONTRACT WORK INCLUDING BUT NOT LIMITED TO: SAWCUTTING FOR P.C.C. OPERATIONS, P.C.C. REMOVAL AND REPLACEMENT, PAVEMENT MILLING, AND PAVING. THIS NOTICE SHALL BE GIVEN TO ALL RESIDENTS WHOSE PROPERTY IS ADJACENT TO THE STREET ON WHICH WORK IS TO BE PERFORMED. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED.

28. BEFORE THE START OF A DAYS PAVEMENT MILLING OR PAVING OPERATIONS AND WHERE THERE IS EXISTING STRIPING, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE PROOF THAT ENOUGH MATERIAL OF AN APPROVED ALTERNATIVE STRIPING METHOD IS ON HAND AT THE SITE TO ENSURE STRIPING IS COMPLETE BEFORE TRAFFIC IS RETURNED TO THE ROADWAY.

29. SEEDING IN SUBDIVISIONS SHALL CONFORM TO 734.03 OF THE STANDARD SPECIFICATIONS - PERMANENT GRASS SEEDING SUBDIVISION CHART.

30. BEFORE WORK IS DONE AT ANY LOCATION, THE APPROPRIATE DISTRICT SAFETY OFFICER MUST APPROVE THE MOT FOR THAT LOCATION. ANY ANTICIPATED IMPACT TO TRAFFIC SIGNALS MUST BE REVIEWED BY THE DELDOT TRAFFIC SECTION PRIOR TO CONSTRUCTION. THEY CAN BE CONTACTED AT 302-659-4060.

31. ANY ERRONEOUS MARKING WILL NOT BE PAID FOR AND SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTORS EXPENSE. ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN WIDTH SHALL BE REMOVED BY EITHER SAND OR WATER BLASTING. 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 REMOVAL OF ERRONEOUS MARKINGS SHALL BE REPAIRED / REPLACED TO THE SATISFACRTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

32. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING THE NECESSARY NCHRP 350 CERTIFICATIONS FOR ALL DEVICES THAT WILL BE UTILIZED, FOR EACH LOCATION BEFORE THE START OF THE PRE-CONSTRUCTION MEETING. WRITTEN APPROVAL MUST BE RECEIVED BEFORE THE START OF WORK AT EACH AND EVERY LOCATION. TYPICALLY, THE WORK SHALL BE DONE USING TYPICAL APPLICATION 3 OR TYPICAL APPLICATION 10 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

33. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION AND SHALL BE IN COMPLIANCE WITH THE TRAFFIC CONTROL MANUAL AND NCHRP 350 AS DEFINED IN SECTION "A" OF THE MANUAL. THE DEVICES SHALL BE APROVED BY THE ENGINEER PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

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LOCATION 1 2(PORT PENN ROAD) FROM MARKET STREET TO REEDY POINT ROAD

LENGTH 2968.752 m 9740 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	60.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	24,980.00 S.Y.
406001	WARM-MIX PATCHING	970.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	11,690.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	84.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	33.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	41,760.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	33.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	38,960.00 L.F.
762001	SAW CUTTING, HOT MIX	220.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 2

22D(MECHANIC STREET) FROM DUPONT PKWY TO DEAD END

LENGTH 278.892 m 915 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 2

302007	GRADED AGGREGATE BASE COURSE, TYPE B	8.00 C.Y.
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	22.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	2,240.00 S.Y.
406001	WARM-MIX PATCHING	360.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	1,100.00 L.F.
705001	P.C.C. SIDEWALK, 4"	200.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	20.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	400.00 S.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	94.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	2,330.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,830.00 L.F.
762001	SAW CUTTING, HOT MIX	114.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL

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LOCATION 3 2A(POLKTOWN PLACE) FROM PORT PENN ROAD TO CANAL ROAD

LENGTH 1292.352 m 4240 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 3

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	68.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	84,800.00 S.Y.
406001	WARM-MIX PATCHING	1,120.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	5,090.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	1.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	64.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	700.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	700.00 L.F.
762001	SAW CUTTING, HOT MIX	252.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL

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LOCATION 4 30(PADDOCK ROAD) FROM BLACK DIAMOND RD TO EAGLES NEST LANDING RD

LENGTH 1728.216 m 5670 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICROSURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 4

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	18.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	13,860.00 S.Y.
406001	WARM-MIX PATCHING	292.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	6,804.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	84.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	23,220.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	22,680.00 L.F.
762001	SAW CUTTING, HOT MIX	170.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CONTRACT T201306702

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CANAL

MICRO-SURFACING, CANAL FY 2013

LOCATION 5 304(OLD KIRKWOOD ROAD) FROM RED LION ROAD TO RED LION ROAD

LENGTH 960.12 m 3150 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 5

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	40.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	7,700.00 S.Y.
406001	WARM-MIX PATCHING	640.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	3,780.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	90.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	9.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	40.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	7,710.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	40.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	6,300.00 L.F.
762001	SAW CUTTING, HOT MIX	232.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL

MICRO-SURFACING, CANAL FY 2013

LOCATION 6 336B(TWIN C. RD.) FROM DEAD END TO DEAD END

LENGTH 868.68 m 2850 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

TIME RESTRICTION: WEEKEND ONLY

MATERIAL ESTIMATE FOR LOCATION 6

302007	GRADED AGGREGATE BASE COURSE, TYPE B	4.00 C.Y.
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	22.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	7,600.00 S.Y.
406001	WARM-MIX PATCHING	360.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	3,550.00 L.F.
705001	P.C.C. SIDEWALK, 4"	400.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	40.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	800.00 S.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	5.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	1.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	44.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	5,700.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	5,700.00 L.F.
762001	SAW CUTTING, HOT MIX	140.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL

MICRO-SURFACING, CANAL FY 2013

LOCATION 7 37(VANCE NECK ROAD) FROM BLUEBIRD HAVEN TO SILVER RUN RD

LENGTH 5394.96 m 17700 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 7

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	187.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	48,880.00 S.Y.
406001	WARM-MIX PATCHING	3,104.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	21,240.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	84.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	78,170.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	20.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	70,800.00 L.F.
762001	SAW CUTTING, HOT MIX	680.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL

MICRO-SURFACING, CANAL FY 2013

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LOCATION 8 389(WHITAKER ROAD) FROM OLD BALTIMORE PIKE TO WELSH TRACT ROAD

LENGTH 1470.66 m 4825 L.F.

GENERAL IMPROVEMENTS

MICRO SURFACING

COMMENTS:

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MATERIAL ESTIMATE FOR LOCATION 8

403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	11,800.00 S.Y.
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	6,800.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	64.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00 HOUR
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	40.00 S.F.

\*\* DENOTES FIXED PRICE ITEM

COPY

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CANAL

MICRO-SURFACING, CANAL FY 2013

LOCATION 9

401(DEL LAWS ROAD) FROM PORTER ROAD TO WRANGLE HILL ROAD

LENGTH 1584.96 m 5200 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 9

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	17.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	16,712.00 S.Y.
406001	WARM-MIX PATCHING	276.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	7,300.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	84.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	270.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	21,600.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	270.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	20,800.00 L.F.
762001	SAW CUTTING, HOT MIX	76.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL

MICRO-SURFACING, CANAL FY 2013

LOCATION 10 428(SHALLCROSS LAKE ROAD) FROM MARL PIT ROAD (429) TO BOYDS CORNER ROAD

LENGTH 4864.608 m 15960 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 10

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	211.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	41,320.00 S.Y.
406001	WARM-MIX PATCHING	3,514.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	19,155.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	84.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	38.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	37,870.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	38.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	31,920.00 L.F.
762001	SAW CUTTING, HOT MIX	622.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL

MICRO-SURFACING, CANAL FY 2013

LOCATION 11

432(CHURCHTOWN ROAD) FROM MD LINE TO CHOPTANK ROAD

LENGTH 2682.24 m 8800 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICROSURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 11

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	44.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	22,960.00 S.Y.
406001	WARM-MIX PATCHING	724.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	10,560.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	84.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	37,380.00 L.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	40.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	35,200.00 L.F.
762001	SAW CUTTING, HOT MIX	258.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL

MICRO-SURFACING, CANAL FY 2013

LOCATION 12

456(UNION CHURCH ROAD) FROM BLACKBIRD LANDING ROAD TO RT 9

LENGTH 2063.496 m 6770 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 12

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	42.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	15,050.00 S.Y.
406001	WARM-MIX PATCHING	690.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	8,130.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	84.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	15,070.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	13,540.00 L.F.
762001	SAW CUTTING, HOT MIX	270.00 L.F.

\*\* DENOTES FIXED PRICE ITEM



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CANAL

MICRO-SURFACING, CANAL FY 2013

LOCATION 14 469(BLACK DIAMOND ROAD) FROM US 13 TO PADDOCK ROAD

LENGTH 3493.008 m 11460 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 14

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	111.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	28,020.00 S.Y.
406001	WARM-MIX PATCHING	1,840.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	13,760.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	84.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	30.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	25,920.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	30.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	22,920.00 L.F.
762001	SAW CUTTING, HOT MIX	500.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL

MICRO-SURFACING, CANAL FY 2013

LOCATION 15 51(ANCHOR INN ROAD) FROM US 13 TO US 13

LENGTH 755.904 m 2480 L.F.

GENERAL IMPROVEMENTS

PARTIAL DEPTH PATCHING 4" AND MICRO SURFACING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 15

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	30.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	6,070.00 S.Y.
406001	WARM-MIX PATCHING	478.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	2,980.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	1.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	64.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	54.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	5,840.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	54.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	4,960.00 L.F.
762001	SAW CUTTING, HOT MIX	204.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

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CANAL MICRO-SURFACING, CANAL FY 2013

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CONTRACT QUANTITIES SUMMARY SHEET

302007	GRADED AGGREGATE BASE COURSE, TYPE B	12.00 C.Y.
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	966.00 TON
403512	POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED	359,862.00 S.Y.
406001	WARM-MIX PATCHING	15,928.00 SY-IN
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	135,619.00 L.F.
705001	P.C.C. SIDEWALK, 4"	600.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	60.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,200.00 S.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	145.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	27.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	1,176.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	115.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	670.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	328,770.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	730.00 S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	40.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	299,110.00 L.F.
762001	SAW CUTTING, HOT MIX	4,114.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

\*\* DENOTES FIXED PRICE ITEM