

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS

PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201206111

NORTH MAINTENANCE

FEDERAL AID NUMBER- ESTP-N009(8)

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CONTRACT TITLE- PAVEMENT & REHABILITATION – NORTH XI, 2012

PLANS PREPARED BY:

George L. Cates

DESIGN TECHNICIAN

DATE RECOMMENDED:

4/11/12

[Signature]

GROUP ENGINEER, CONSTRUCTION – NORTH II

DATE RECOMMENDED:

4/11/12

James T. Pappas III

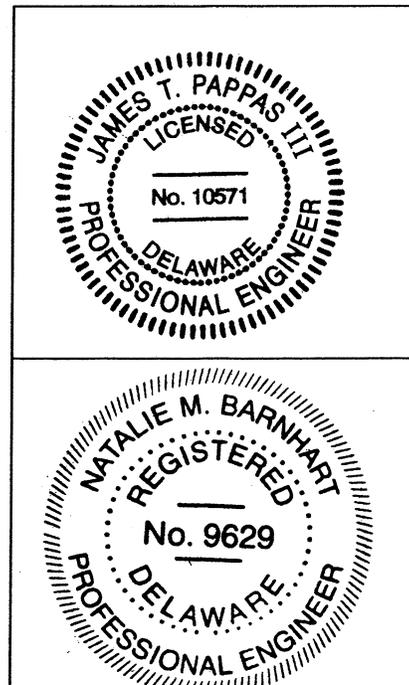
ASSIST. DIRECTOR, DESIGN

DATE RECOMMENDED:

4/11/12

Natalie Barnhart

CHIEF ENGINEER



DEPARTMENT OF TRANSPORTATION

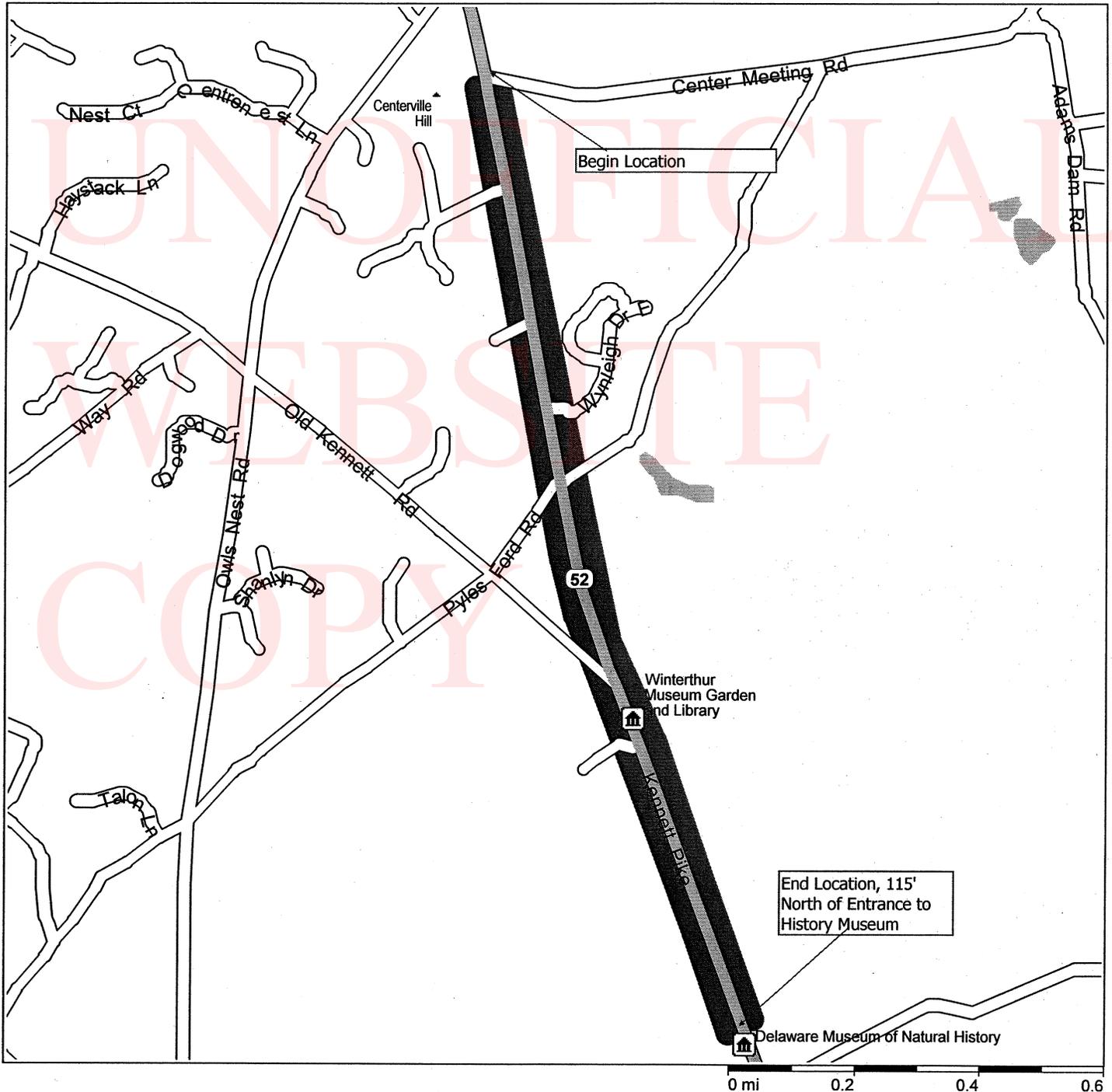
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KENNETT PIKE FROM CENTER MEETING ROAD TO MUSEUM; KENNETT PIKE FROM PA LINE TO HM JT. NORTH OF SNUFF MILL ROAD; KENNETT PIKE FROM SUNNYSIDE ROAD TO I-95 RAMP

LOCATION MAP

Loc. #1 - Kennett Pike from Center Meeting Road to HM Jt. Near Museum



DEPARTMENT OF TRANSPORTATION

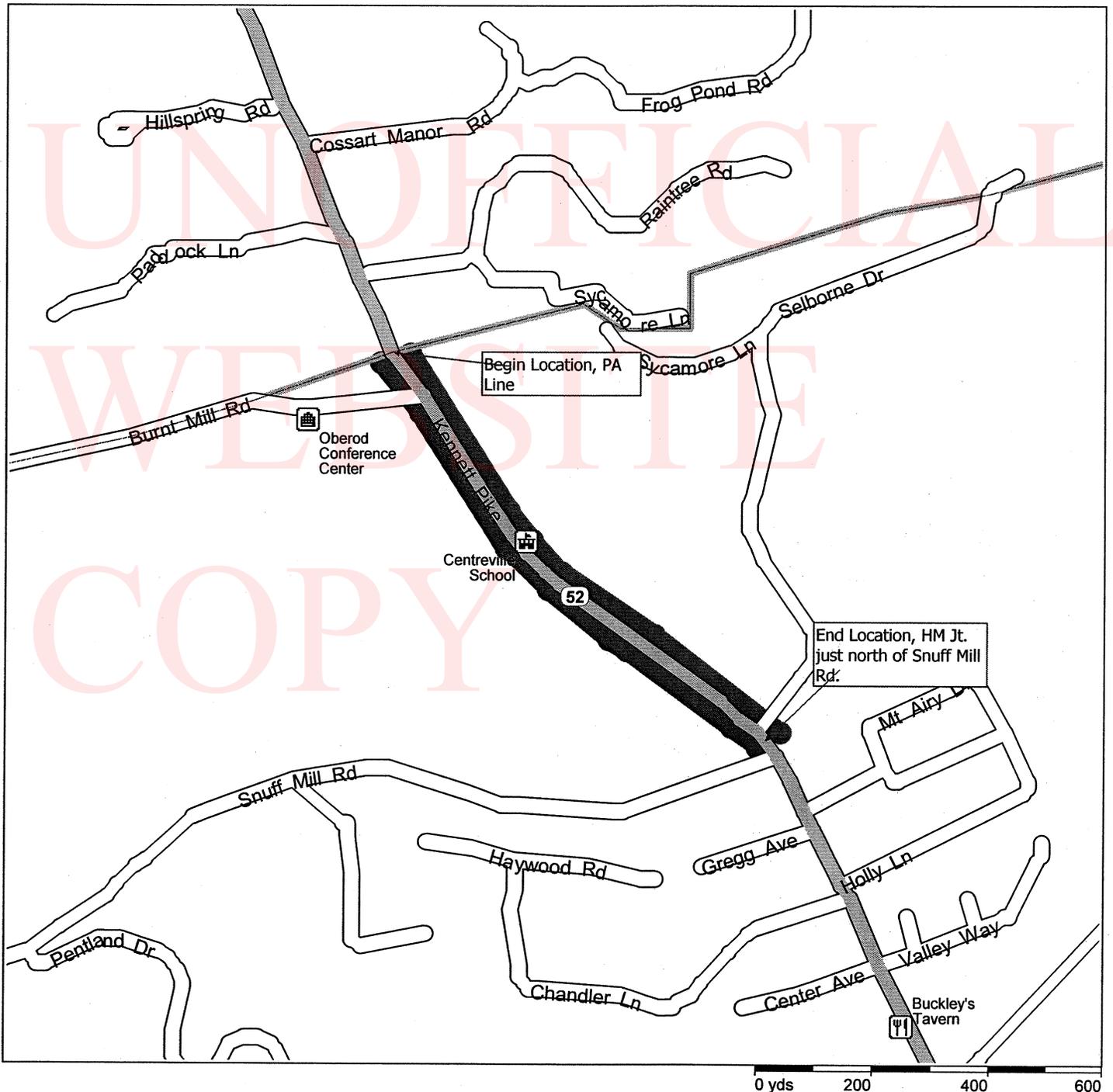
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KENNETT PIKE FROM CENTER MEETING ROAD TO MUSEUM; KENNETT PIKE FROM PA LINE TO HM JT. NORTH OF SNUFF MILL ROAD; KENNETT PIKE FROM SUNNYSIDE ROAD TO I-95 RAMP

LOCATION MAP

Loc. #2 - Kennett Pike from PA Line to HM Jt. North of Snuff Mill Rd.



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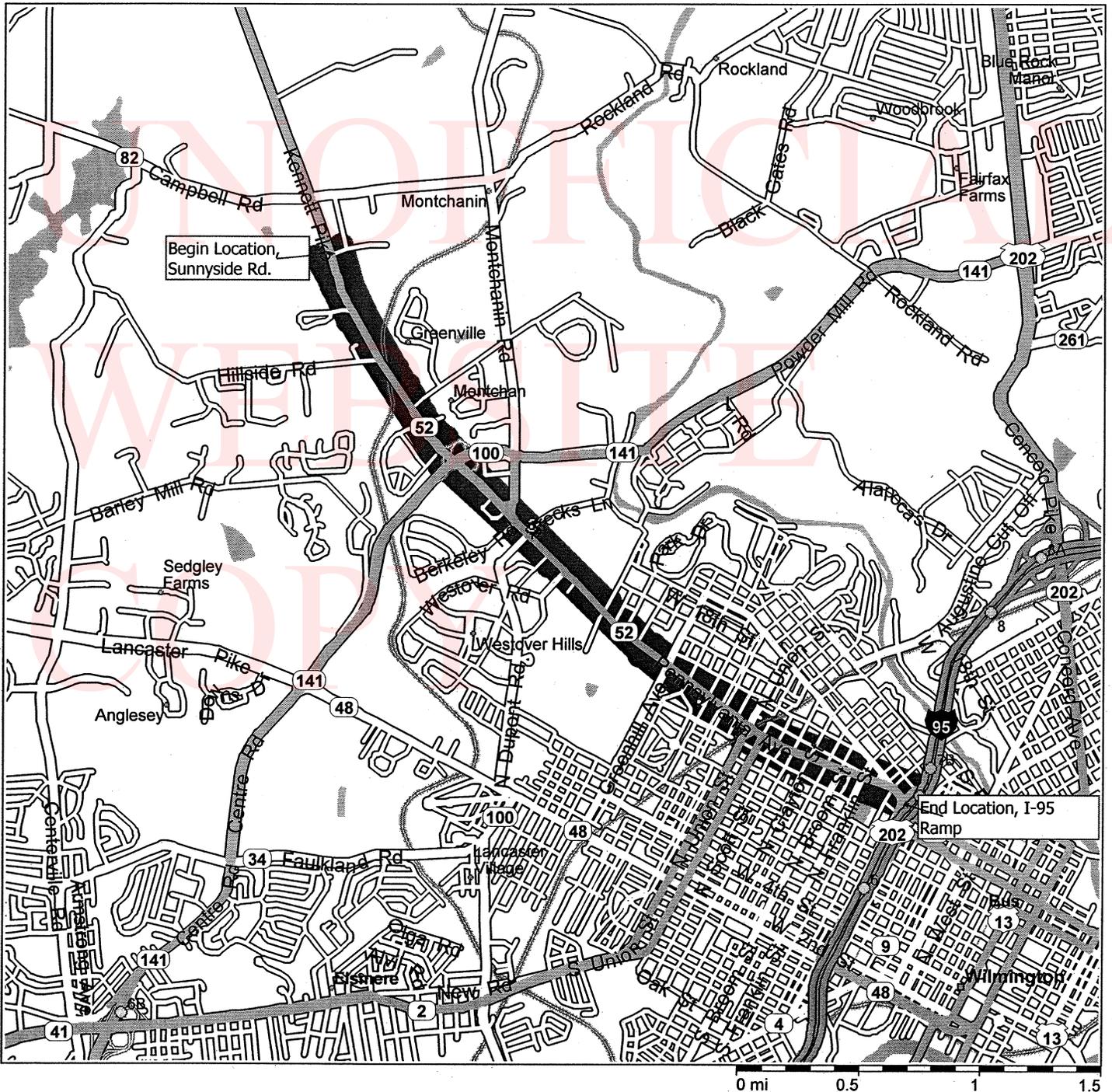
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KENNETT PIKE FROM CENTER MEETING ROAD TO MUSEUM; KENNETT PIKE FROM PA LINE TO HM JT. NORTH OF SNUFF MILL ROAD; KENNETT PIKE FROM SUNNYSIDE ROAD TO I-95 RAMP

LOCATION MAP

Loc. #3 - Kennett Pike from Sunnyside Rd. to I-95 Ramp



PAVEMENT & REHABILITATION, NORTH XI, 2012

GENERAL CONTRACT PLAN NOTES

REVISED 4/2012

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, DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THESE PLANS.

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 LOCATION OR QUANTITY 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. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS AND BUSINESSES WHO LIVE ADJACENT TO THE WORK ZONE A MINIMUM 48 HR. PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT CONTACT NUMBERS. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED. ACCESS TO ALL BUSINESSES 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.

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.

PAVEMENT & REHABILITATION, NORTH XI, 2012

GENERAL CONTRACT PLAN NOTES

MAINTENANCE OF TRAFFIC

5. THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULL OPENING ROADWAY TO TRAFFIC.

6. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY STRIPING SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT STRIPING. 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.

7. 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.

8. 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 ON 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 763XXX - MAINTENANCE OF TRAFFIC.

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.

THE CONTRACTOR SHALL BE REQUIRED TO REVIEW EACH CURB RAMP LOCATION AND

PAVEMENT & REHABILITATION, NORTH XI, 2012

GENERAL CONTRACT PLAN NOTES

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.

THE FOLLOWING CONSIDERATIONS SHALL BE TAKEN INTO ACCOUNT WHEN ADDRESSING ACCESSIBLE PEDESTRIAN MAINTENANCE OF TRAFFIC:

- ALL PEDESTRIANS, INCLUDING PERSONS WITH DISABILITIES, SHALL BE PROVIDED WITH A REASONABLY SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS MUCH AS PRACTICABLE THE EXISTING PEDESTRIAN FACILITIES.
- MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
- PROVIDE PEDESTRIAN ACCESS THROUGH OR AROUND THE WORK ZONE. IF A DETOUR IS CHOSEN THE CONTRACTOR MUST SUBMIT THE DETOUR ROUTE TO THE ENGINEER FOR REVIEW AND APPROVAL. THE DETOUR ROUTE MUST MEET OR EXCEED THE CURRENT CONDITIONS.
- WORK SHOULD BE PHASED SO THAT ALL AREAS OF AN INTERSECTION/SIDEWALK PATH ARE NOT UNDER CONSTRUCTION AT THE SAME TIME UNLESS A CLEAR PATH IS PROVIDED AND IDENTIFIED.
- TRAFFIC CONTROL DEVICES AND OTHER CONSTRUCTION MATERIALS AND FEATURES SHALL NOT INTRUDE INTO THE USABLE WIDTH OF THE SIDEWALK, TEMPORARY PATHWAY OR OTHER PEDESTRIAN FACILITY.
- SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7 FT ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHALL NOT PROJECT MORE THAN 4 IN. INTO ACCESSIBLE PEDESTRIAN ROUTE.

A SMOOTH, CONTINUOUS HARD SURFACE SHALL BE PROVIDED THROUGHOUT THE ENTIRE LENGTH AND WIDTH OF THE PEDESTRIAN ROUTE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO CURBS OR VERTICAL ELEVATION CHANGES GREATER THAN ¼ IN. IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

9. AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR SHALL BE REQUIRED FOR ALL LOCATIONS SPECIFIED IN THE CONTRACT PLANS. A COPY OF THE CERTIFICATION CARD FOR THE ATSSA TRAFFIC CONTROL SUPERVISOR SHALL BE SUBMITTED AT THE PRECONSTRUCTION MEETING. THE PAPER CERTIFICATE IS NOT ACCEPTABLE.

GENERAL CONTRACT PLAN NOTES

PAVEMENT MARKINGS

10. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO EXISTING STRIPING LENGTHS, LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, CROSSWALKS AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION. THESE DRAWINGS WILL BE REVIEWED BY THE DEPARTMENT'S 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.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, 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. ALL DOUBLE YELLOW CENTERLINES SHALL BE PLACED IN A 5-6-5 CONFIGURATION (2 EACH, 5" YELLOW STRIPES WITH A 6" GAP BETWEEN).
CONTRACT.

11. 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 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 REMOVAL OF ERRONEOUS MARKINGS SHALL BE REPAIRED / REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

12. STOP LINES "BARS" SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3B.16 OF THE 2011 DELAWARE MUTCD.

13. ALL CROSSWALKS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3B.18 OF THE 2011 DELAWARE MUTCD.

TRAFFIC SIGNAL NOTES

14. TRAFFIC DETECTION LOOPS SHALL BE PLACED IN THE FINAL WEARING SURFACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

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GENERAL CONTRACT PLAN NOTES

15. TRAFFIC DETECTION LOOPS THAT ARE CURRENTLY 5'x7' SHALL BE REPLACED WITH LOOPS THAT ARE 6'x6' AT THE SAME LOCATION. STOP BAR DETECTION LOOPS SHALL BE THE SAME SIZE AS CURRENTLY EXISTING, AND SHOULD BE PLACED STARTING TWO FEET BEHIND THE STOP BAR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SEPARATE SIGNAL PLANS HAVE BEEN DEVELOPED, THE PLANS SUPERSEDE THIS NOTE.

PROJECT

16. UNLESS SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

17. 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 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.

18. BUTT JOINTS SHALL BE PLACED AT ALL INTERSECTING HOT MIX ROADS AND ANY OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. BUTT JOINTS AT DRAINAGE STRUCTURES NOT TO BE RESURFACED SHALL BE AS PER THE INCLUDED PLAN DETAIL OR LOCATION NOTES. BUTT JOINTS CUT PRIOR TO THE DAY OF THE PAVEMENT OVERLAY SHALL BE RAMPED WITH HOT MIX TRM. IN MILLING AREAS, THERE WILL BE NO SEPARATE PAYMENT FOR BUTT JOINTS. AFTER PAVEMENT MILLING, ALL TRANSVERSE VERTICAL DIFFERENCES, RAISED EDGES OF MANHOLES, CATCH BASINS, WATER VALVE BOXES, ETC...SHALL BE RAMPED WITH HOT-MIX TRM AT A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS WILL NOT BE ALLOWED FOR USE AS RAMPING MATERIAL.

19. TAPER MILLING IS INTENDED FOR MILLING IN THE AREA OF FIXED STRUCTURES (I.E. CURBS GUARDRAIL, ETC.) THE MILLED DEPTH AT THE STRUCTURE SHALL BE THE DEPTH OF THE PROPOSED OVERLAY AND 0" AT A DISTANCE OF +/- 6½' FROM THE STRUCTURE. THE COMPUTED DEPTH FOR PAYMENT PURPOSES IS THE AVERAGE OF THE TWO DEPTHS.

20. ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED.

GENERAL CONTRACT PLAN NOTES

21. EXCAVATION UP TO 1' IN FRONT OF CURB WILL BE INCIDENTAL TO ITEM 701XXX. HOT MIX PLACED IN FRONT OF CURB WILL BE PAID UNDER ITEM 401XXX. USE OF CONCRETE AS FILL IN FRONT OF CURB WILL NO LONGER BE ACCEPTED UNLESS DIRECTED BY THE ENGINEER. AT EACH LOCATION, BACKFILLING SHALL BE PERFORMED IMMEDIATELY UPON REMOVAL OF FORMS FOR CURB OR SIDEWALK. TOPSOIL, SEEDING, SEALING OF VALLEY GUTTERS, REMOVING OF FORMS, AND PARGING OF CATCH BASINS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION OF THE ITEM OF WORK. ITEM 732XXX, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL BEHIND CURB AND AROUND SIDEWALK OR/AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" IS PRESENT IN MATERIAL USED FOR BACKFILL. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BE REMOVED FROM THE CONTRACT AT THE CONTRACTORS EXPENSE. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

22. ALL ADJUSTMENTS SHALL BE MADE NO MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO THE PLACEMENT OF THE FINAL COURSE OF HOT MIX UNLESS OTHERWISE APPROVED BY THE ENGINEER. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

23. ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, IS TO BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FROM THE TIME THE AREA WAS MILLED. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

24. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC. 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 HOT MIX RESIDUE WEDGE REMAINING AFTER MILLING OPERATIONS SHALL BE INCIDENTAL TO THE MILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE MILLING AND/OR RECLAMATION ITEMS.

25. ALL PORTLAND CEMENT CONCRETE MUST BE RECEIVED FROM AN APPROVED PRODUCTION PLANT UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONLY CALIBRATED VOLUMETRIC CONCRETE TRUCKS WILL BE PERMITTED TO PROVIDE ON-SITE MIXTURES. THIS PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORKING HOURS AND NIGHTTIME RESTRICTED WORK.

PAVEMENT & REHABILITATION, NORTH XI, 2012

GENERAL CONTRACT PLAN NOTES

26. DRAINAGE INLETS, WHICH ARE 4' GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 708.07 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 710001.

27. THE PORTLAND CEMENT CONCRETE USED WITHIN ITEM 701002 - ADJUST AND REPAIR EXISTING MAN HOLES AND ITEM 750000 - ADJUST WATER VALVE BOX SHALL CONFORM TO THE REQUIREMENTS OF CLASS A CONCRETE AS STATED WITHIN SECTION 503.02 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

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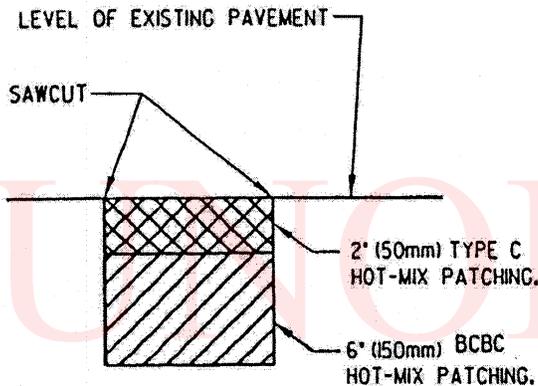
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NORTH MAINTENANCE KENNETT PIKE FROM CENTER MEETING ROAD TO MUSEUM; KEN

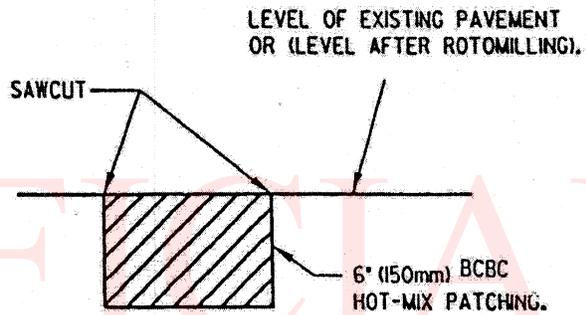
DETAILS SHEET



HOT MIX PATCH - NO OVERLAY

N.T.S.

- UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 8" (200mm) WHEN DIRECTED BY THE ENGINEER.



HOT MIX PATCH - OVERLAY SECTION

N.T.S.

- UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 6" (150mm) WHEN DIRECTED BY THE ENGINEER.

NOTE: PREFERRED EXCAVATION METHOD TO BE BY ROTOMILLING. SAWCUTTING EDGES SHALL BE AS DIRECTED BY ENGINEER AND DEPENDENT ON THE CONDITION LEFT BY THE ROTOMILLING OPERATION. BACKFILL FOR UNDERCUT EXCAVATION SHALL BE SUPERPAVE BCBC PATCH (SEPERATE LIFT). MINIMUM WIDTH OF PATCHING 6' (1.8M). THIS DETAIL SHALL BE USED FOR ALL HOT MIX PATCHES UNLESS OTHERWISE SHOWN ON THE PLANS. ALL HOT MIX TO BE PLACED USING A PAVER.

WHEN PCC PATCHING IS REQUIRED ON A COMPOSITE PAVEMENT (HOT-MIX OVER CONCRETE), THE CONTRACTOR MAY ELECT TO ELIMINATE ANY GRADE DIFFERENCE BETWEEN THE TOP OF THE CONCRETE PATCH AND THE TOP OF THE EXISTING HOT-MIX PAVEMENT BY EITHER PLACING HOT-MIX TRM MATERIAL (PAYMENT UNDER ITEM 402000) OR PLACING CONCRETE FLUSH WITH EXISTING HOT-MIX PAVEMENT (ADDITIONAL CONCRETE PAID AS ITEM 503503). IF CONCRETE IS PLACED FLUSH WITH EXISTING HOT-MIX, THE ROTOMILLING OF THE CONCRETE WILL BE PAID FOR AS ROTOMILLING HOT-MIX.

P.C.C. PATCHING NOTES

DELAWARE DEPARTMENT OF TRANSPORTATION

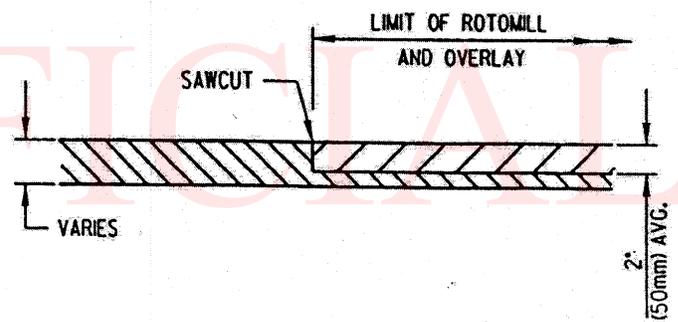
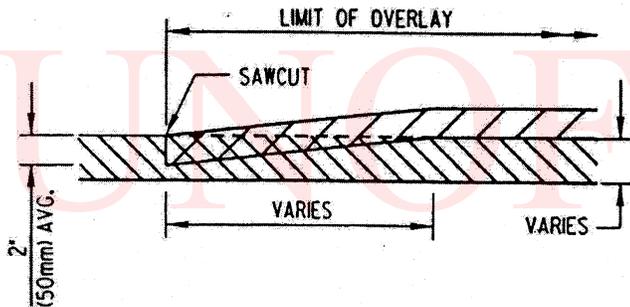
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NORTH MAINTENANCE

KENNETT PIKE FROM CENTER MEETING ROAD TO MUSEUM; KEN

DETAILS SHEET



LEGEND

-  — PROPOSED OVERLAY
-  — EXISTING PAVEMENT
-  — EXISTING PAVEMENT TO BE REMOVED

LEGEND

-  — PROPOSED FULL WIDTH ROTOMILL AND HOT MIX OVERLAY
-  — EXISTING PAVEMENT (TO REMAIN)

BUTT JOINT
FOR OVERLAY SECTION

PAYMENT UNDER ITEM 761001.

HOT MIX JOINT
FOR FULL WIDTH ROTOMILL SECTION

PAYMENT INCIDENTAL TO ITEM 760XXX, ROTOMILLING.

HOT MIX JOINT DETAIL

•NOTE: THE FOLLOWING LENGTHS ARE BASED ON THE POSTED SPEED OF THE ROADWAY:
 LESS THAN 50 MPH = 20 FT (6m) PER 1" (25mm) OF OVERLAY DEPTH.
 EQUAL TO OR GREATER THAN 50 MPH = 30 FT (9.1m) PER 1" (25mm) OF OVERLAY DEPTH.
 AT STOP SIGNS = 15 FT (4.6m) PER 1" (25mm) OF OVERLAY DEPTH.

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**NORTH
MAINTENANCE**

PAVEMENT & REHABILITATION, NORTH XI, 2012

**LOCATION 1 9(KENNETT PIKE - CENTER SECTION) FROM CENTER MEETING RD (RD221) TO
HOT-MIX JOINT NEAR MUSEUM**

LENGTH 2292.096 m 7520 L.F. AADT 12620

GENERAL IMPROVEMENTS

TAPERMILL @ CURB, HOT-MIX PATCH, , 2" TYPE C 76-22 OVERLAY

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

| | | |
|--------|--|-----------------|
| 302005 | GRADED AGGREGATE BASE COURSE, TYPE B | 50.00 TON |
| 401696 | ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE | 150.00 TON |
| 401755 | RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE | 600.00 TON |
| 401823 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING | 1,900.00 TON |
| 401833 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE) | 4,100.00 TON |
| 402000 | HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM) | 75.00 TON |
| 406001 | HOT-MIX PATCHING | 34,500.00 SY-IN |
| 710001 | ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET | 5.00 EACH |
| 710002 | ADJUSTING AND REPAIRING EXISTING MANHOLE | 2.00 EACH |
| 727502 | ADJUSTING EXISTING MONUMENT BOX | 2.00 EACH |
| 743004 | FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN | 10.00 EA-DY |
| 743005 | FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY | 200.00 EA-DY |
| 743007 | ** TRAFFIC OFFICERS | 160.00 HOUR |
| 743010 | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II | 20.00 EA-DY |
| 743050 | ** FLAGGER, NEW CASTLE COUNTY, STATE | 840.00 HOUR |
| 743062 | ** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME | 84.00 HOUR |
| 746774 | SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE | 400.00 L.F. |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC | 150.00 S.F. |
| 748019 | TEMPORARY MARKINGS, PAINT, 4" | 30,100.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND | 150.00 S.F. |
| 748502 | RAISED/RECESSED PAVEMENT MARKER | 55.00 EACH |
| 748548 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" | 30,100.00 L.F. |
| 748553 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL | 6.00 EACH |
| 749687 | INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST | 20.00 EACH |
| 749688 | INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH | 3.00 EACH |
| 760502 | PAVEMENT MILLING, TAPER CUT | 300.00 SY-IN |
| 761001 | BUTT JOINTS, HOT MIX | 1,900.00 S.Y. |

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NORTH
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PAVEMENT & REHABILITATION, NORTH XI, 2012

LOCATION 1 9(KENNETT PIKE - CENTER SECTION) FROM CENTER MEETING RD (RD221) TO
HOT-MIX JOINT NEAR MUSEUM

LENGTH 2292.096 m 7520 L.F. AADT 12620

GENERAL IMPROVEMENTS

TAPERMILL @ CURB, HOT-MIX PATCH, , 2" TYPE C 76-22 OVERLAY

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

762001

SAW CUTTING, HOT MIX

800.00 L.F.

** DENOTES FIXED PRICE ITEM

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PAVEMENT & REHABILITATION, NORTH XI, 2012

**LOCATION 1 9(KENNETT PIKE - CENTER SECTION) FROM CENTER MEETING RD (RD221) TO
HOT-MIX JOINT NEAR MUSEUM**

COMMENTS:

Restricted Work Hours: 7:30 PM to 5:30 AM

Recommended Traffic Control: Case TA10 - roadway
Case TA3 - shoulders

Curb Ramp Locations:

No curb ramps anticipated at this location

Entrance and Driveway Locations:

Somero Lane 15'
Pyles Ford Lane 2 @ 25' each
Old Kennett Rd. 25'
Log Church Rd. 25'
#5400 10'
#5300 10'
Cemetery Entrance 10'
Church entrance & exit 2 @ 5" each
#1 Log Church Rd. 10'
#5012 10'
#5008 5'
#5006 5'
#5000 15'
#5013-#5017 5'
Winterthur 5'
#5201 15'
Wynleigh 5'
#5405 10'
#5601-#5605 5'

Manhole Adjustments:

2 - Verizon
1 - Delmarva Gas valve by others
1 - Delmarva Gas manhole by others

General Notes:

Church, cemetery, museum at this location

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**NORTH
MAINTENANCE**

PAVEMENT & REHABILITATION, NORTH XI, 2012

**LOCATION 2 9(KENNETT PIKE - NORTH SECTION) FROM PA LINE TO HOT-MIX JOINT
NORTH OF SNUFF MILL RD (RD247)**

LENGTH 792.48 m 2600 L.F. AADT 12620

GENERAL IMPROVEMENTS

TAPER MILL @ CURB, HOT-MIX PATCHING, 2" TYPE C 76-22 OVERLAY

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

| | | |
|--------|--|-----------------|
| 302005 | GRADED AGGREGATE BASE COURSE, TYPE B | 50.00 TON |
| 401696 | ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE | 100.00 TON |
| 401755 | RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE | 300.00 TON |
| 401823 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING | 1,600.00 TON |
| 401833 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE) | 1,500.00 TON |
| 402000 | HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM) | 20.00 TON |
| 406001 | HOT-MIX PATCHING | 29,000.00 SY-IN |
| 710002 | ADJUSTING AND REPAIRING EXISTING MANHOLE | 1.00 EACH |
| 743004 | FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN | 10.00 EA-DY |
| 743005 | FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY | 200.00 EA-DY |
| 743007 | ** TRAFFIC OFFICERS | 160.00 HOUR |
| 743010 | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II | 15.00 EA-DY |
| 743050 | ** FLAGGER, NEW CASTLE COUNTY, STATE | 600.00 HOUR |
| 743062 | ** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME | 60.00 HOUR |
| 746774 | SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE | 700.00 L.F. |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 200.00 S.F. |
| 748019 | TEMPORARY MARKINGS, PAINT, 4" | 12,750.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND | 200.00 S.F. |
| 748502 | RAISED/RECESSED PAVEMENT MARKER | 100.00 EACH |
| 748548 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" | 12,750.00 L.F. |
| 748553 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL | 6.00 EACH |
| 749687 | INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST | 20.00 EACH |
| 749688 | INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH | 2.00 EACH |
| 760502 | PAVEMENT MILLING, TAPER CUT | 500.00 SY-IN |
| 761001 | BUTT JOINTS, HOT MIX | 1,000.00 S.Y. |

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NORTH
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PAVEMENT & REHABILITATION, NORTH XI, 2012

LOCATION 2 9(KENNETT PIKE - NORTH SECTION) FROM PA LINE TO HOT-MIX JOINT
NORTH OF SNUFF MILL RD (RD247)

LENGTH 792.48 m 2600 L.F. AADT 12620

GENERAL IMPROVEMENTS

TAPER MILL @ CURB, HOT-MIX PATCHING, 2" TYPE C 76-22 OVERLAY

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

762001 SAW CUTTING, HOT MIX

200.00 L.F.

** DENOTES FIXED PRICE ITEM

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NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH XI, 2012

LOCATION 2 9(KENNETT PIKE - NORTH SECTION) FROM PA LINE TO HOT-MIX JOINT NORTH
OF SNUFF MILL RD (RD247)

COMMENTS:

Restricted Work Hours: 7:30 PM to 5:30 AM

Recommended Traffic Control: Case TA10 - roadway
Case TA3 - shoulders

Curb Ramp Locations:

No curb ramps anticipated at this location

Entrance and Driveway Locations:

#6410 10'
#6301 2 @ 10' each
#6020-6022-6024 10'
Burnt Mill Rd. 25'
Centerville School 2 @ 25' each

Manhole Adjustments:

1 - Verizon

General Notes:

Centerville School at this location, patterned hot-mix at Centerville sign

COPY

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NORTH
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PAVEMENT & REHABILITATION, NORTH XI, 2012

LOCATION 3 **9(KENNETT PIKE - SOUTH & CITY SECTION) FROM SUNNYSIDE RD TO I-95 RAMP**

LENGTH 5565.648 m 18260 L.F. AADT 6041

GENERAL IMPROVEMENTS

2" PROFILE MILL, HOT-MIX PATCHING, PCC REPAIR IN PCC SECTION, 2" TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

| | | |
|--------|--|----------------|
| 302005 | GRADED AGGREGATE BASE COURSE, TYPE B | 200.00 TON |
| 401696 | ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE | 500.00 TON |
| 401755 | RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE | 1,000.00 TON |
| 401823 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING | 500.00 TON |
| 401833 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE) | 12,300.00 TON |
| 402000 | HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM) | 100.00 TON |
| 406001 | HOT-MIX PATCHING | 9,100.00 SY-IN |
| 501502 | DIAMOND GRINDING P.C.C. PAVEMENT | 20,600.00 S.Y. |
| 503001 | PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A | 1,260.00 S.Y. |
| 503002 | PATCHING P.C.C. PAVEMENT GREATER THAN 15' TO 100', TYPE B | 90.00 S.Y. |
| 503006 | DOWEL BARS | 3,400.00 EACH |
| 503501 | CRACK AND JOINT SEALING LESS THAN 3/4" WIDE | 20,000.00 L.F. |
| 503517 | P.C.C. PATCHING, PARTIAL DEPTH | 800.00 SY-IN |
| 701010 | PORTLAND CEMENT CONCRETE CURB, TYPE 1-8 | 1,000.00 L.F. |
| 705001 | P.C.C. SIDEWALK, 4" | 7,650.00 S.F. |
| 705002 | P.C.C. SIDEWALK, 6" | 300.00 S.F. |
| 705007 | SIDEWALK SURFACE DETECTABLE WARNING SYSTEM | 750.00 S.F. |
| 705008 | CURB RAMP, TYPE 1 | 1,600.00 S.F. |
| 705009 | CURB RAMP, TYPE 2, 3, AND/OR 4 | 9,300.00 S.F. |
| 708060 | REPLACE DRAINAGE INLET GRATE(S) | 5.00 EACH |
| 708061 | REPLACE DRAINAGE INLET FRAME(S) | 5.00 EACH |
| 710001 | ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET | 50.00 EACH |
| 710002 | ADJUSTING AND REPAIRING EXISTING MANHOLE | 44.00 EACH |
| 727502 | ADJUSTING EXISTING MONUMENT BOX | 6.00 EACH |
| 743003 | ARROWPANELS, TYPE C | 140.00 EA-DY |
| 743004 | FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN | 15.00 EA-DY |
| 743005 | FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY | 200.00 EA-DY |

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**NORTH
MAINTENANCE**

PAVEMENT & REHABILITATION, NORTH XI, 2012

**LOCATION 3 9(KENNETT PIKE - SOUTH & CITY SECTION) FROM SUNNYSIDE RD TO I-95
RAMP**

LENGTH 5565.648 m 18260 L.F. AADT 6041

GENERAL IMPROVEMENTS

2" PROFILE MILL, HOT-MIX PATCHING, PCC REPAIR IN PCC SECTION, 2" TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

| | | |
|--------|--|-----------------|
| 743007 | ** TRAFFIC OFFICERS | 2,100.00 HOUR |
| 743010 | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II | 140.00 EA-DY |
| 743050 | ** FLAGGER, NEW CASTLE COUNTY, STATE | 5,560.00 HOUR |
| 743062 | ** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME | 556.00 HOUR |
| 744505 | ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL | 21.00 EACH |
| 744520 | CONDUIT JUNCTION WELL, TYPE 1, PRECAST CONCRETE | 5.00 EACH |
| 744523 | CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE | 5.00 EACH |
| 744525 | REMOVAL OF EXISTING JUNCTION WELL | 6.00 EACH |
| 745521 | SUPPLY OF 4" SDR-13.5 HDPE CONDUIT | 250.00 L.F. |
| 745522 | SUPPLY OF 3" SCHEDULE 80 PVC CONDUIT | 30.00 L.F. |
| 745527 | SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT | 5.00 L.F. |
| 745542 | INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE | 250.00 L.F. |
| 745544 | INSTALLATION OF CONDUIT IN UNPAVED TRENCH | 440.00 L.F. |
| 745579 | SUPPLY OF 2 1/2" SCHEDULE 80 PVC CONDUIT | 410.00 L.F. |
| 746774 | SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE | 4,170.00 L.F. |
| 746776 | LOOP DETECTOR SPLICE | 57.00 EACH |
| 746830 | REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS | 12.00 C.Y. |
| 746847 | POLE BASE, TYPE 3 | 1.00 EACH |
| 746850 | POLE BASE, TYPE 4 | 22.00 EACH |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC | 11,800.00 S.F. |
| 748019 | TEMPORARY MARKINGS, PAINT, 4" | 146,900.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND | 23,600.00 S.F. |
| 748529 | RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND | 120.00 S.F. |
| 748536 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK 6" | 10,800.00 L.F. |
| 748547 | RETROREFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 9" | 200.00 L.F. |
| 748548 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" | 96,000.00 L.F. |
| 749687 | INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST | 160.00 EACH |

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NORTH
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PAVEMENT & REHABILITATION, NORTH XI, 2012

LOCATION 3 9(KENNETT PIKE - SOUTH & CITY SECTION) FROM SUNNYSIDE RD TO I-95
RAMP

LENGTH 5565.648 m 18260 L.F. AADT 6041

GENERAL IMPROVEMENTS

2" PROFILE MILL, HOT-MIX PATCHING, PCC REPAIR IN PCC SECTION, 2" TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

| | | |
|--------|---|------------------|
| 749688 | INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH | 20.00 EACH |
| 750000 | ADJUST WATER VALVE BOXES | 7.00 EACH |
| 758000 | REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC. | 1,000.00 S.Y. |
| 760507 | PROFILE MILLING, HOT-MIX | 223,650.00 SY-IN |
| 762001 | SAW CUTTING, HOT MIX | 2,900.00 L.F. |
| 762002 | SAW CUTTING, CONCRETE, FULL DEPTH | 5,500.00 L.F. |
| 763502 | MAINTENANCE OF RAILROAD TRAFFIC | 1.00 L.S. |
| 763621 | CONSTRUCTION ENGINEERING, REHABILITATION | 37.00 HOUR |

** DENOTES FIXED PRICE ITEM

NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH XI, 2012

LOCATION 3 9(KENNETT PIKE - SOUTH & CITY SECTION) FROM SUNNYSIDE RD TO I-95 RAMP

COMMENTS:

Restricted Work Hours: 7:30 PM to 5:30 AM

Recommended Traffic Control: Case TA10 - roadway
Case TA3 - shoulders

Curb Ramp Locations:

Pennsylvania Ave. - 8 - signalized
 Lincoln St. - 8 - signalized
 Bancroft Parkway - 8 - signalized
 Greenhill Ave. - 8 - brick - signalized
 Rising Sun Lane - 2 - signalized
 Hopeton Lane - A. I. DuPont Institute - 2 - signalized
 Briars Lane - 8 - brick - signalized
 A.I. DuPont School - 6 - signalized
 Wood Lane - 8 - signalized
 Scott St. south & north - 4
 N. Grant Ave. - 1
 Riverview Ave. south & north - 4
 Mount Salem Lane - 1
 One Greenville Shopping Center - 3 - brick
 N. Union St. - 2
 Pasture St. - 1

ANY WORK OR ACTIVITIES INCLUDING ADA REQUIREMENTS ASSOCIATED WORK THAT CANNOT BE COMPLETED DUE TO RIGHT-OF-WAY ISSUES WILL BE DELETED FROM THE CONTRACT.

Curb ramp and/or sidewalk construction (not including median islands) shall be completed during a single operation. The ramp/sidewalk shall be removed and placed back the same night/day and open to pedestrian traffic the following day. The use of a monolithic pour shall be permitted with a bond breaker to be placed at the back of the curb and edge of sidewalk. If the curb ramp/sidewalk cannot be completed in a single operation the excavated area must be backfilled to grade with COMPACTED milling material. This material will be incidental to the curb ramp item.

PLEASE NOTE: TOPSOIL AND SEEDING AROUND THE CURB RAMPS WILL BE INCIDENTAL TO THE CURB RAMP ITEMS.

Entrance and Driveway Locations:

Scott St. 2 @ 30' each
 Grant Ave. 20'
 Riverview Ave. 2 @ 20' each
 Mount Salem Lane 20'
 Greenville Shopping Center exit 20'
 One Greenville Crossing entrance 20'
 Pasture St. 10'
 N. Union St. 60'
 Lincoln St. 2 @ 30' each
 Bancroft Parkway 2 @ 20' each
 Greenhill Ave. 15'
 Rising Sun Lane 50'
 Hopeton Rd. 20'
 Hillside Rd. 70'
 Greenville Crossing 50'

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NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH XI, 2012

LOCATION 3 9(KENNETT PIKE - SOUTH & CITY SECTION) FROM SUNNYSIDE RD TO I-95 RAMP

Wood Lane 2 @ 25' each
Pennsylvania Ave. 2 2 30 each

Manhole Adjustments:

- 4 - DelDOT storm
- 25 - NCCDSS
- 15 - Verizon
- 7 - City of Wilmington water valves
- 3 - Delmarva Gas by others

General Notes:

Many schools, churches, DuPont Hospital and Brandywine Valley Railroad at this location

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NORTH PAVEMENT & REHABILITATION, NORTH XI, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

| | | |
|--------|--|-----------------|
| 302005 | GRADED AGGREGATE BASE COURSE, TYPE B | 300.00 TON |
| 401696 | ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE | 750.00 TON |
| 401755 | RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE | 1,900.00 TON |
| 401823 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING | 4,000.00 TON |
| 401833 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE) | 17,900.00 TON |
| 402000 | HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM) | 195.00 TON |
| 406001 | HOT-MIX PATCHING | 72,600.00 SY-IN |
| 501502 | DIAMOND GRINDING P.C.C. PAVEMENT | 20,600.00 S.Y. |
| 503001 | PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A | 1,260.00 S.Y. |
| 503002 | PATCHING P.C.C. PAVEMENT GREATER THAN 15' TO 100', TYPE B | 90.00 S.Y. |
| 503006 | DOWEL BARS | 3,400.00 EACH |
| 503501 | CRACK AND JOINT SEALING LESS THAN 3/4" WIDE | 20,000.00 L.F. |
| 503517 | P.C.C. PATCHING, PARTIAL DEPTH | 800.00 SY-IN |
| 701010 | PORTLAND CEMENT CONCRETE CURB, TYPE 1-8 | 1,000.00 L.F. |
| 705001 | P.C.C. SIDEWALK, 4" | 7,650.00 S.F. |
| 705002 | P.C.C. SIDEWALK, 6" | 300.00 S.F. |
| 705007 | SIDEWALK SURFACE DETECTABLE WARNING SYSTEM | 750.00 S.F. |
| 705008 | CURB RAMP, TYPE 1 | 1,600.00 S.F. |
| 705009 | CURB RAMP, TYPE 2, 3, AND/OR 4 | 9,300.00 S.F. |
| 708060 | REPLACE DRAINAGE INLET GRATE(S) | 5.00 EACH |
| 708061 | REPLACE DRAINAGE INLET FRAME(S) | 5.00 EACH |
| 710001 | ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET | 55.00 EACH |
| 710002 | ADJUSTING AND REPAIRING EXISTING MANHOLE | 47.00 EACH |
| 727502 | ADJUSTING EXISTING MONUMENT BOX | 8.00 EACH |
| 743003 | ARROWPANELS, TYPE C | 140.00 EA-DY |
| 743004 | FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN | 35.00 EA-DY |
| 743005 | FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY | 600.00 EA-DY |
| 743007 | ** TRAFFIC OFFICERS | 2,420.00 HOUR |

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NORTH PAVEMENT & REHABILITATION, NORTH XI, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

| | | |
|--------|--|-----------------|
| 743010 | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II | 175.00 EA-DY |
| 743050 | ** FLAGGER, NEW CASTLE COUNTY, STATE | 7,000.00 HOUR |
| 743062 | ** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME | 700.00 HOUR |
| 744505 | ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL | 21.00 EACH |
| 744520 | CONDUIT JUNCTION WELL, TYPE 1, PRECAST CONCRETE | 5.00 EACH |
| 744523 | CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE | 5.00 EACH |
| 744525 | REMOVAL OF EXISTING JUNCTION WELL | 6.00 EACH |
| 745521 | SUPPLY OF 4" SDR-13.5 HDPE CONDUIT | 250.00 L.F. |
| 745522 | SUPPLY OF 3" SCHEDULE 80 PVC CONDUIT | 30.00 L.F. |
| 745527 | SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT | 5.00 L.F. |
| 745542 | INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE | 250.00 L.F. |
| 745544 | INSTALLATION OF CONDUIT IN UNPAVED TRENCH | 440.00 L.F. |
| 745579 | SUPPLY OF 2 1/2" SCHEDULE 80 PVC CONDUIT | 410.00 L.F. |
| 746774 | SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE | 5,270.00 L.F. |
| 746776 | LOOP DETECTOR SPLICE | 57.00 EACH |
| 746830 | REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS | 12.00 C.Y. |
| 746847 | POLE BASE, TYPE 3 | 1.00 EACH |
| 746850 | POLE BASE, TYPE 4 | 22.00 EACH |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC | 12,150.00 S.F. |
| 748019 | TEMPORARY MARKINGS, PAINT, 4" | 189,750.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND | 23,950.00 S.F. |
| 748502 | RAISED/RECESSED PAVEMENT MARKER | 155.00 EACH |
| 748529 | RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND | 120.00 S.F. |
| 748536 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK 6" | 10,800.00 L.F. |
| 748547 | RETROREFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 9" | 200.00 L.F. |
| 748548 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" | 138,850.00 L.F. |
| 748553 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL | 12.00 EACH |
| 749687 | INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST | 200.00 EACH |

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NORTH PAVEMENT & REHABILITATION, NORTH XI, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

| | | |
|--------|---|------------------|
| 749688 | INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH | 25.00 EACH |
| 750000 | ADJUST WATER VALVE BOXES | 7.00 EACH |
| 758000 | REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC. | 1,000.00 S.Y. |
| 760502 | PAVEMENT MILLING, TAPER CUT | 800.00 SY-IN |
| 760507 | PROFILE MILLING, HOT-MIX | 223,650.00 SY-IN |
| 761001 | BUTT JOINTS, HOT MIX | 2,900.00 S.Y. |
| 762001 | SAW CUTTING, HOT MIX | 3,900.00 L.F. |
| 762002 | SAW CUTTING, CONCRETE, FULL DEPTH | 5,500.00 L.F. |
| 763000 | INITIAL EXPENSE | LUMP SUM |
| 763502 | MAINTENANCE OF RAILROAD TRAFFIC | 1.00 L.S. |
| 763621 | CONSTRUCTION ENGINEERING, REHABILITATION | 37.00 HOUR |
| 763643 | MAINTENANCE OF TRAFFIC, ALL INCLUSIVE | LUMP SUM |

** DENOTES FIXED PRICE ITEM

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