



DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201206102

NORTH MAINTENANCE

FEDERAL AID NUMBER- N/A

PAGE 1 OF 25

CONTRACT TITLE- PAVEMENT & REHABILITATION - NORTH II, 2012

PLANS PREPARED BY: *George L. Cate*
DESIGN TECHNICIAN

DATE RECOMMENDED: 11/17/11

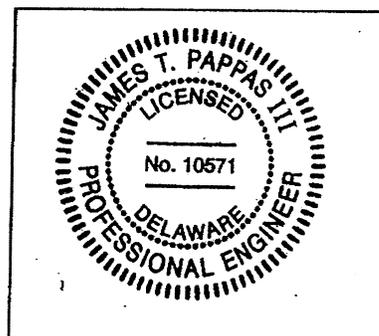
DATE RECOMMENDED: N/A

Chris Cava
GROUP ENGINEER, CONSTRUCTION - NORTH II

N/A N/A
ASSIST. DIRECTOR, CONSTRUCTION - NORTH

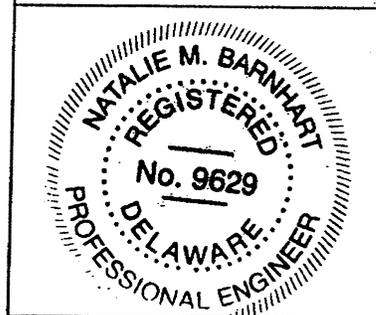
DATE RECOMMENDED: 11.17.11

James T. Pappas III
ASSIST. DIRECTOR, DESIGN



DATE RECOMMENDED: 11/17/11

Natalie Barnhart
CHIEF ENGINEER



DEPARTMENT OF TRANSPORTATION

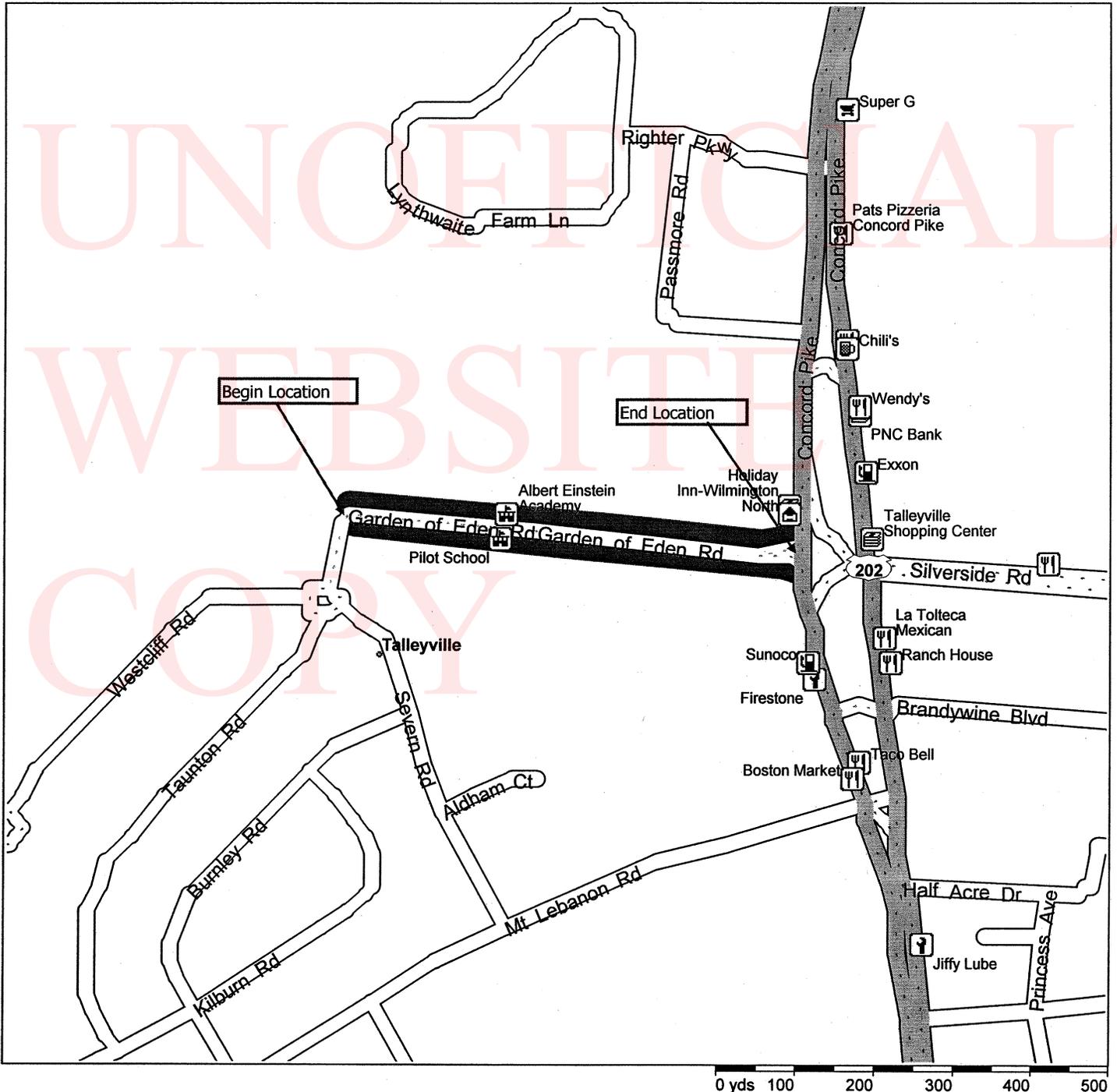
CONTRACT NUMBER- T201206102

PAGE 2 OF 25

CONCORD PIKE (RD4) FROM 500' NORTH OF MURPHY RD (RD210) TO 200' SOUTH OF NAAMANS RD (RD17); ROCKLAND RD (RD232) FROM WEST PARK DR TO ROCKSPRING RD (RD235); GARDEN OF EDEN RD (RD226) FROM END OF ROAD TO CONCORD PIKE (RD4)

LOCATION MAP

Loc. #1 - Garden of Eden Road from End of Road to Concord Pike



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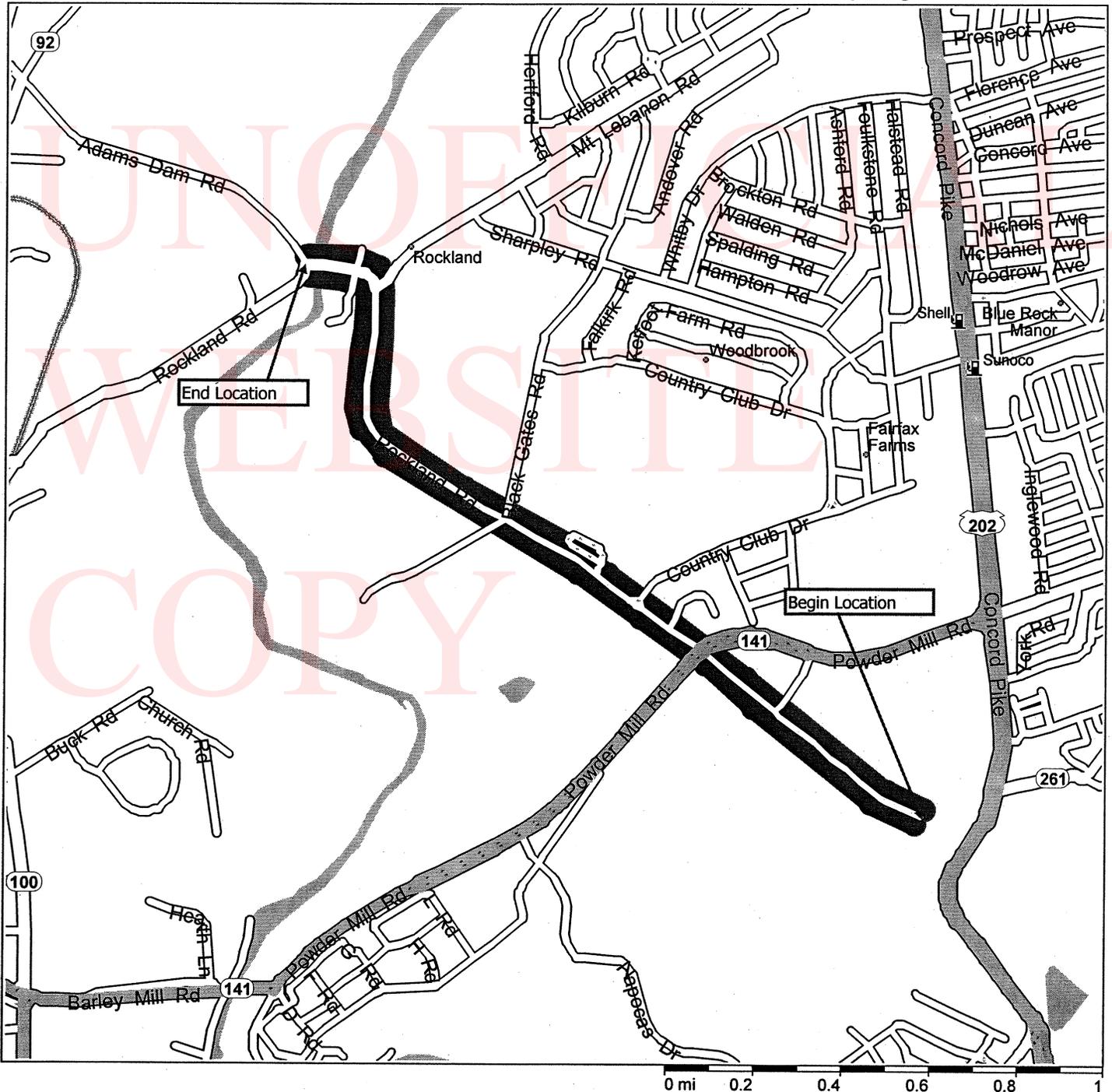
CONTRACT NUMBER- T201206102

PAGE 3 OF 25

CONCORD PIKE (RD4) FROM 500' NORTH OF MURPHY RD (RD210) TO 200' SOUTH OF NAAMANS RD (RD17); ROCKLAND RD (RD232) FROM WEST PARK DR TO ROCKSPRING RD (RD235); GARDEN OF EDEN RD (RD226) FROM END OF ROAD TO CONCORD PIKE (RD4)

LOCATION MAP

Loc. #2 - Rockland Road from West Park Drive to Rockspring Road



DEPARTMENT OF TRANSPORTATION

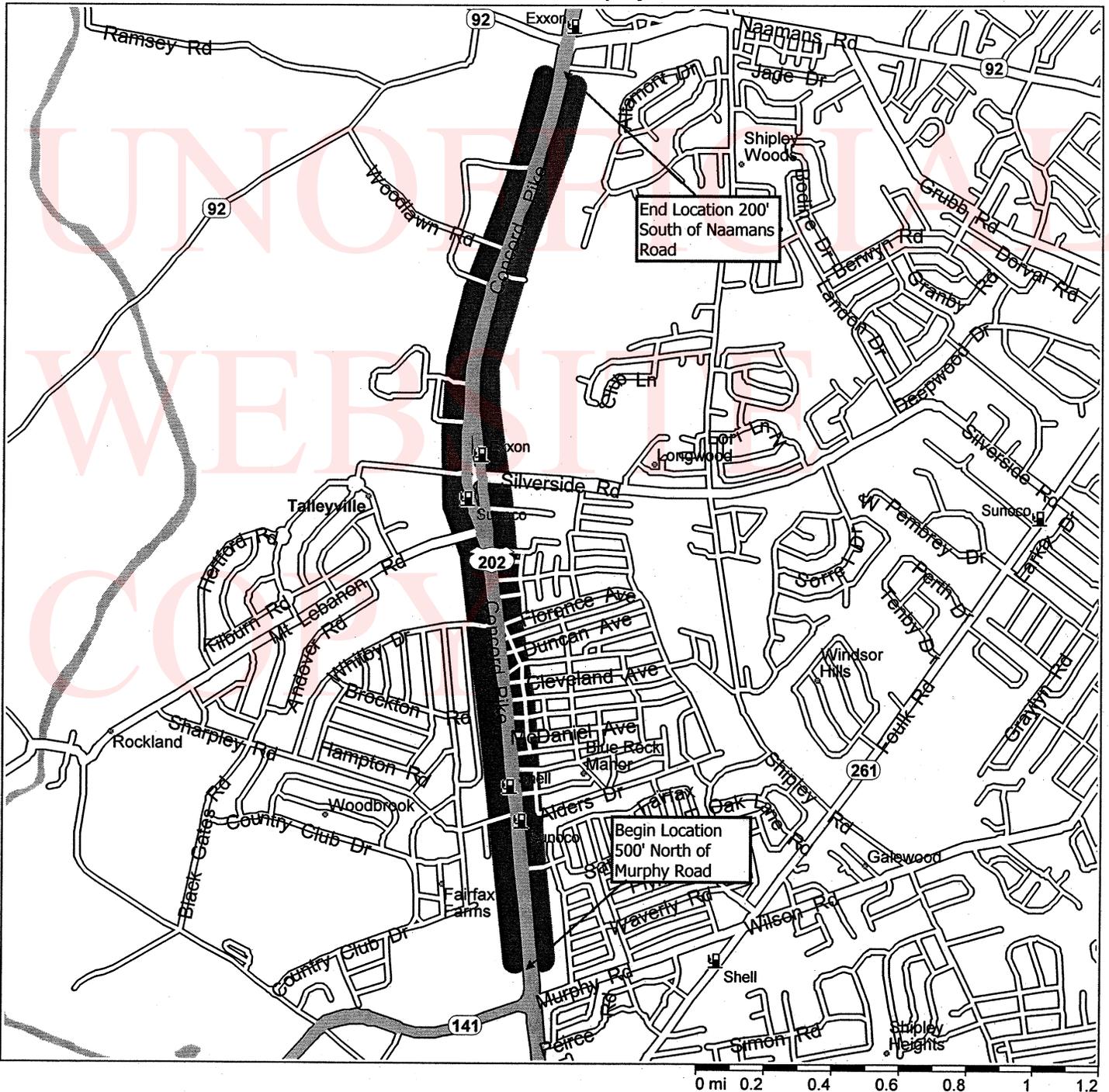
CONTRACT NUMBER- T201206102

PAGE 4 OF 25

CONCORD PIKE (RD4) FROM 500' NORTH OF MURPHY RD (RD210) TO 200' SOUTH OF NAAMANS RD (RD17); ROCKLAND RD (RD232) FROM WEST PARK DR TO ROCKSPRING RD (RD235); GARDEN OF EDEN RD (RD226) FROM END OF ROAD TO CONCORD PIKE (RD4)

LOCATION MAP

Loc. #3 - Concord Pike from 500' North of Murphy Road to 200' South of Naamans ...



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.

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 II, 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.

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 II, 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 710002 - 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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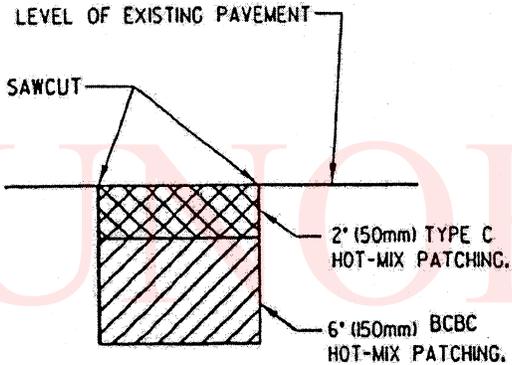
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201206102

PAGE 12 OF 25

NORTH MAINTENANCE CONCORD PIKE (RD4) FROM 500' NORTH OF MURPHY RD (RD210) 1

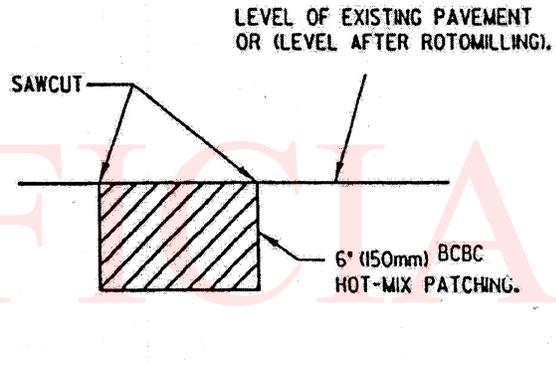
DETAILS SHEET



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

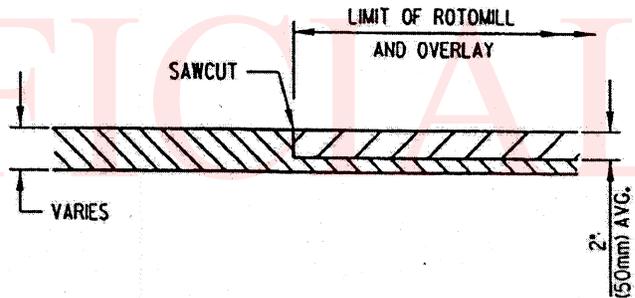
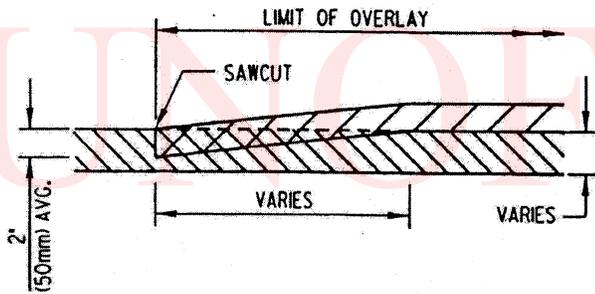
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201206102

PAGE 13 OF 25

NORTH MAINTENANCE CONCORD PIKE (RD4) FROM 500' NORTH OF MURPHY RD (RD210) 1

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.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206102

PAGE 14 OF 25

**NORTH
MAINTENANCE**

PAVEMENT & REHABILITATION, NORTH II, 2012

LOCATION 1 226(GARDEN OF EDEN RD) FROM END OF ROAD TO CONCORD PIKE (RD4)

LENGTH 518.16 m 1700 L.F. AADT 1290

GENERAL IMPROVEMENTS

TAPER MILL @ CURBS, HOT-MIX PATCHING, 2" WMA TYPE C 64-22 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	70.00 TON
401755	RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE	50.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1,000.00 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	700.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	25.00 TON
406001	HOT-MIX PATCHING	18,200.00 SY-IN
708060	REPLACE DRAINAGE INLET GRATE(S)	1.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	1.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	3.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00 EACH
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743007	** TRAFFIC OFFICERS	80.00 HOUR
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	400.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	40.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	145.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	6,145.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	145.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	6,145.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	6.00 EACH
760502	PAVEMENT MILLING, TAPER CUT	1,000.00 SY-IN
761001	BUTT JOINTS, HOT MIX	400.00 S.Y.
762001	SAW CUTTING, HOT MIX	500.00 L.F.

** DENOTES FIXED PRICE ITEM

NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH II, 2012

LOCATION 1 226(GARDEN OF EDEN RD) FROM END OF ROAD TO CONCORD PIKE (RD4)

COMMENTS:

Restricted work Hours: 8:00 AM to 4:00 PM

Recommended Traffic Control: Case TA-10 Roadway
Case TA-3 Shoulders

Curb Ramp Locations:

No curb ramps anticipated at this location

Entrance and Driveway locations:

Gratz School 15'
Albert Einstein Academy 15'
Jewish Community Center 25'
Pilot School 2 @15' each
#18 10'
#10 5'
#8 10'
Quality Inn 2 @ 5" each

Manhole Adjustments:

3 - NCCDSS
6 - Water valves by others

General Notes:

Albert Einstein Academy, Gratz School, Pilot School, Jewish Community center at this location
Summertime location

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206102

PAGE 16 OF 25

NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH II, 2012

LOCATION 2 232(ROCKLAND RD (RD232)) FROM WEST PARK DR TO ROCKSPRING RD (RD235)

LENGTH 3465.576 m 11370 L.F. AADT 7669

GENERAL IMPROVEMENTS

1 1/2" PROFILE, HOT-MIX PATCHING, 1 1/2" WMA TYPE C 64-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

302005	GRADED AGGREGATE BASE COURSE, TYPE B	100.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	150.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	700.00 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	3,700.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	100.00 TON
406001	HOT-MIX PATCHING	12,700.00 SY-IN
705001	P.C.C. SIDEWALK, 4"	500.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	230.00 S.F.
705008	CURB RAMP, TYPE 1	680.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,750.00 S.F.
705010	CURB RAMP, TYPE 5	390.00 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	5.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	11.00 EACH
743003	ARROWPANELS, TYPE C	30.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743007	** TRAFFIC OFFICERS	480.00 HOUR
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	1,300.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	130.00 HOUR
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	2,910.00 L.F.
746776	LOOP DETECTOR SPLICE	27.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	3,575.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	98,560.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	7,150.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	49,280.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	22.00 EACH

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206102

PAGE 17 OF 25

NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH II, 2012

LOCATION 2 232(ROCKLAND RD (RD232)) FROM WEST PARK DR TO ROCKSPRING RD (RD235)

LENGTH 3465.576 m 11370 L.F. AADT 7669

GENERAL IMPROVEMENTS

1 1/2" PROFILE, HOT-MIX PATCHING, 1 1/2" WMA TYPE C 64-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	60.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	67,300.00 SY-IN
762001	SAW CUTTING, HOT MIX	500.00 L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	11.00 HOUR

** DENOTES FIXED PRICE ITEM

COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206102

PAGE 18 OF 25

NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH II, 2012

LOCATION 2 232(ROCKLAND RD (RD232)) FROM WEST PARK DR TO ROCKSPRING RD (RD235)

COMMENTS:

Restricted work Hours; 8:00 AM to 4:00 PM

Recommended Traffic Control; Case TA-10 Roadway
Case TA-3 Shoulders

Curb Ramp Locations:

W. Park Dr. - 2
Ronald McDonald House - 4
Childrens Dr. - 3 - signalized
Carillon Court - 1
Country Club Dr. - 4
Mid Block DCC - 2
Mt. Lebanon Rd. - 1
N. Rockland Falls Rd. - 4

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:

N. Rockland Falls Rd. 50
N. Rockland Falls Rd. 25'
Nemours Mansion and Garden 25'
Childrens Dr. 25'
Carillion Court 25'
Black Gates Rd. 25'
Mt. Lebanon Rd. 25'
Driveway @ DuPont - 2 @ 25'
Brantwyn 25'

Manhole Adjustments:

11 - NCCDSS
1 - Delmarva Gas by others

General Notes:

A.I. DuPont Hospital, Ronald McDonald House and DuPont Country Club at this location

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206102

PAGE 19 OF 25

**NORTH
MAINTENANCE**

PAVEMENT & REHABILITATION, NORTH II, 2012

**LOCATION 3 4(CONCORD PIKE) FROM HOT-MIX JOINT 250' NORTH OF ASTRA-ZENECA
ENTRANCE TO 200' SOUTH OF NAAMANS RD (RD17)**

LENGTH 4308.348 m 14135 L.F. AADT 46111

GENERAL IMPROVEMENTS

2" PROFILE MILL, HOT-MIX PATCHING, 2" WMA TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

302005	GRADED AGGREGATE BASE COURSE, TYPE B	75.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	710.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	200.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	17,700.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	100.00 TON
406001	HOT-MIX PATCHING	3,600.00 SY-IN
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	1,000.00 L.F.
705001	P.C.C. SIDEWALK, 4"	5,700.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	400.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	5,800.00 S.F.
705010	CURB RAMP, TYPE 5	130.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	6.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	6.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	214.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	30.00 EACH
743003	ARROWPANELS, TYPE C	245.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	610.00 EA-DY
743007	** TRAFFIC OFFICERS	2,930.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	245.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	7,810.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	781.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	16.00 EACH
744506	CONDUIT JUNCTION WELL, TYPE 7, PRECAST POLYMER CONCRETE	1.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, PRECAST CONCRETE	4.00 EACH
744523	CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE	13.00 EACH
744525	REMOVAL OF EXISTING JUNCTION WELL	14.00 EACH

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206102

PAGE 20 OF 25

NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH II, 2012

LOCATION 3 **4(CONCORD PIKE) FROM HOT-MIX JOINT 250' NORTH OF ASTRA-ZENECA
ENTRANCE TO 200' SOUTH OF NAAMANS RD (RD17)**

LENGTH 4308.348 m 14135 L.F. AADT 46111

GENERAL IMPROVEMENTS

2" PROFILE MILL, HOT-MIX PATCHING, 2" WMA TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	371.00 L.F.
745533	SUPPLY OF 2 1/2" SCHEDULE 40 PVC CONDUIT	58.00 L.F.
745535	SUPPLY OF 1 1/2" SCHEDULE 40 PVC CONDUIT	109.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	304.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	39.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	215.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	22,350.00 L.F.
746776	LOOP DETECTOR SPLICE	288.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	1.30 C.Y.
746850	POLE BASE, TYPE 4	9.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	15,585.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	174,540.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	31,170.00 S.F.
748033	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	370.00 L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	710.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	87,270.00 L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	380.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	26.00 EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	22.00 EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	8.00 S.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	750.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	322,000.00 SY-IN
762001	SAW CUTTING, HOT MIX	2,400.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	100.00 L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	17.50 HOUR

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206102

PAGE 21 OF 25

NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH II, 2012

LOCATION 3 4(CONCORD PIKE) FROM HOT-MIX JOINT 250' NORTH OF ASTRA-ZENECA
ENTRANCE TO 200' SOUTH OF NAAMANS RD (RD17)

COMMENTS:

Restricted Work Hours: 7:30 PM to 5:30 AM
Work permitted NB Monday - Friday
Work permitted SB Sunday - Thursday
No Double Lane Closures Permitted Until 10:00PM

Recommended Traffic Control: Case TA-33 Roadway
Case TA-3A Shoulders
Case TA-37 Double Lane Closures
NO Lane Closures Permitted Beyond the
Restricted Work Hours

Curb Ramp Locations:

North Bound

Fairfax Shopping Center - 2 - signalized
Woodrow Ave. - 2 - signalized
McDaniel Ave. - 2
Nichols Ave. - 2 Cleveland Ave. - 2
Concord Ave. - 2 - signalized
Duncan Ave. - 2
SILVERSIDE RD. - 2 - signalized
SILVERSIDE THRU ROAD - 2 - signalized
Saladworks Entrance - 2
Widener University - 5

South Bound

Delaware Corporate Center - 2
Sixth Ave Store - 2
Quality Inn - 2
Garden of Eden Rd. - 3
Garden Of Eden Rd. - Silverside Rd. - 1 - signalized

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:

North Bound

Fairfax Shopping Center 50'
Woodrow Ave. 30'

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206102

PAGE 22 OF 25

NORTH
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH II, 2012

**LOCATION 3 4(CONCORD PIKE) FROM HOT-MIX JOINT 250' NORTH OF ASTRA-ZENECA
ENTRANCE TO 200' SOUTH OF NAAMANS RD (RD17)**

NcDaniel Ave. 30'
Nichols Ave. 30'
Delaware Ave. 30'
Cleveland Ave. 30'
Cocord Ave. 30'
Duncan Ave. 30'
Beryl St. 30'
Prospect Ave. 30'
Concord Gallery 30'
Brandywine Ave. 30'
Silverside Rd. 70'

South Bound

Brandywine Commons 60'
Delaware Corporate Center 20'
Garden of eden Rd. 30'
Sharpley Rd. 40'

Manhole Adjustments:

17 - NCCDSS
13 - Verizon
10 - Delamarva Gas by others
35 - Water by others

General Notes:

THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE EXPOSED VOID.

Talleyville Fire Company, St. Mary Magdalen Church and Aldersgate Methodist Church at this location

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206102

PAGE 23 OF 25

NORTH PAVEMENT & REHABILITATION, NORTH II, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

302005	GRADED AGGREGATE BASE COURSE, TYPE B	225.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	930.00 TON
401755	RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE	50.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1,900.00 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	4,400.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	17,700.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	225.00 TON
406001	HOT-MIX PATCHING	34,500.00 SY-IN
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	1,000.00 L.F.
705001	P.C.C. SIDEWALK, 4"	6,200.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	630.00 S.F.
705008	CURB RAMP, TYPE 1	680.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	7,550.00 S.F.
705010	CURB RAMP, TYPE 5	520.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	12.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	12.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	222.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	44.00 EACH
743003	ARROWPANELS, TYPE C	275.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	30.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	610.00 EA-DY
743007	** TRAFFIC OFFICERS	3,490.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	245.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	9,510.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	951.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	16.00 EACH
744506	CONDUIT JUNCTION WELL, TYPE 7, PRECAST POLYMER CONCRETE	1.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, PRECAST CONCRETE	4.00 EACH

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206102

PAGE 24 OF 25

NORTH PAVEMENT & REHABILITATION, NORTH II, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

744523	CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE	13.00 EACH
744525	REMOVAL OF EXISTING JUNCTION WELL	14.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	371.00 L.F.
745533	SUPPLY OF 2 1/2" SCHEDULE 40 PVC CONDUIT	58.00 L.F.
745535	SUPPLY OF 1 1/2" SCHEDULE 40 PVC CONDUIT	109.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	304.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	39.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	215.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	25,260.00 L.F.
746776	LOOP DETECTOR SPLICE	315.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	1.30 C.Y.
746850	POLE BASE, TYPE 4	9.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	19,305.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	279,245.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	38,465.00 S.F.
748033	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	370.00 L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	710.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	142,695.00 L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	380.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	54.00 EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	22.00 EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	8.00 S.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	810.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	1,000.00 SY-IN
760507	PROFILE MILLING, HOT-MIX	389,300.00 SY-IN
761001	BUTT JOINTS, HOT MIX	400.00 S.Y.
762001	SAW CUTTING, HOT MIX	3,400.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	100.00 L.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206102

PAGE 25 OF 25

NORTH PAVEMENT & REHABILITATION, NORTH II, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

763000	INITIAL EXPENSE	LUMP SUM
763621	CONSTRUCTION ENGINEERING, REHABILITATION	28.50 HOUR
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

** DENOTES FIXED PRICE ITEM

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