

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
CONSTRUCTION PLANS AND SPECIFICATIONS FOR

PAVEMENT AND REHABILITATION, NORTH II, 2024

CONTRACT NUMBER - T202406102

UNIFIER PROJECT ID – 2024-00091

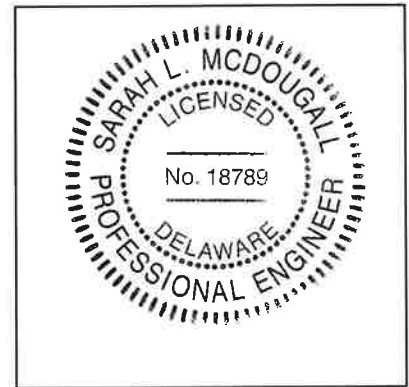
FEDERAL AID NUMBER - ESTP-2025(04)

COUNTY: NEW CASTLE

PLANS PREPARED BY: Mike Beulah
DESIGNER

Sarah L McDougall
DELDOT – TRANSPORTATION SOLUTIONS
PAVEMENT MANAGEMENT - (PM)

12-2-24
DATE



THIS SEAL APPLIES TO ALL SHEETS
BEARING THE "PM" SECTION
DESIGNATION

APPROVED FOR ADVERTISEMENT

Shrey
DIRECTOR OF TRANSPORTATION SOLUTIONS

12/04/2024
DATE

DEPARTMENT OF TRANSPORTATION

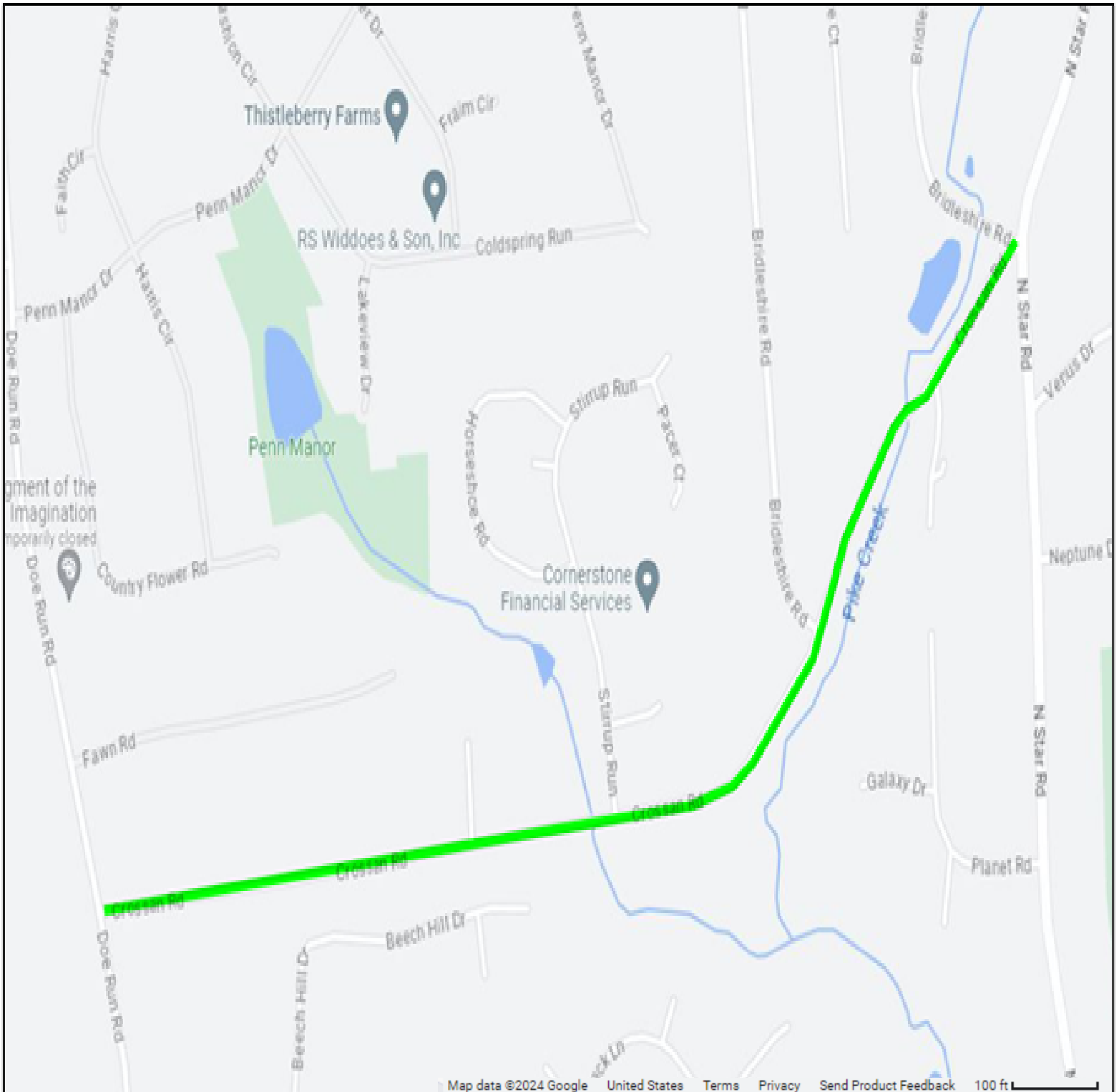
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FOLLOWING LOCATIONS WILL BE REHABILITATED - VALLEY RD AND CROSSAN RD

LOCATION MAP

LOCATION #1 - CROSSAN ROAD FROM DOE RUN ROAD TO UPPER PIKE CREEK ROAD



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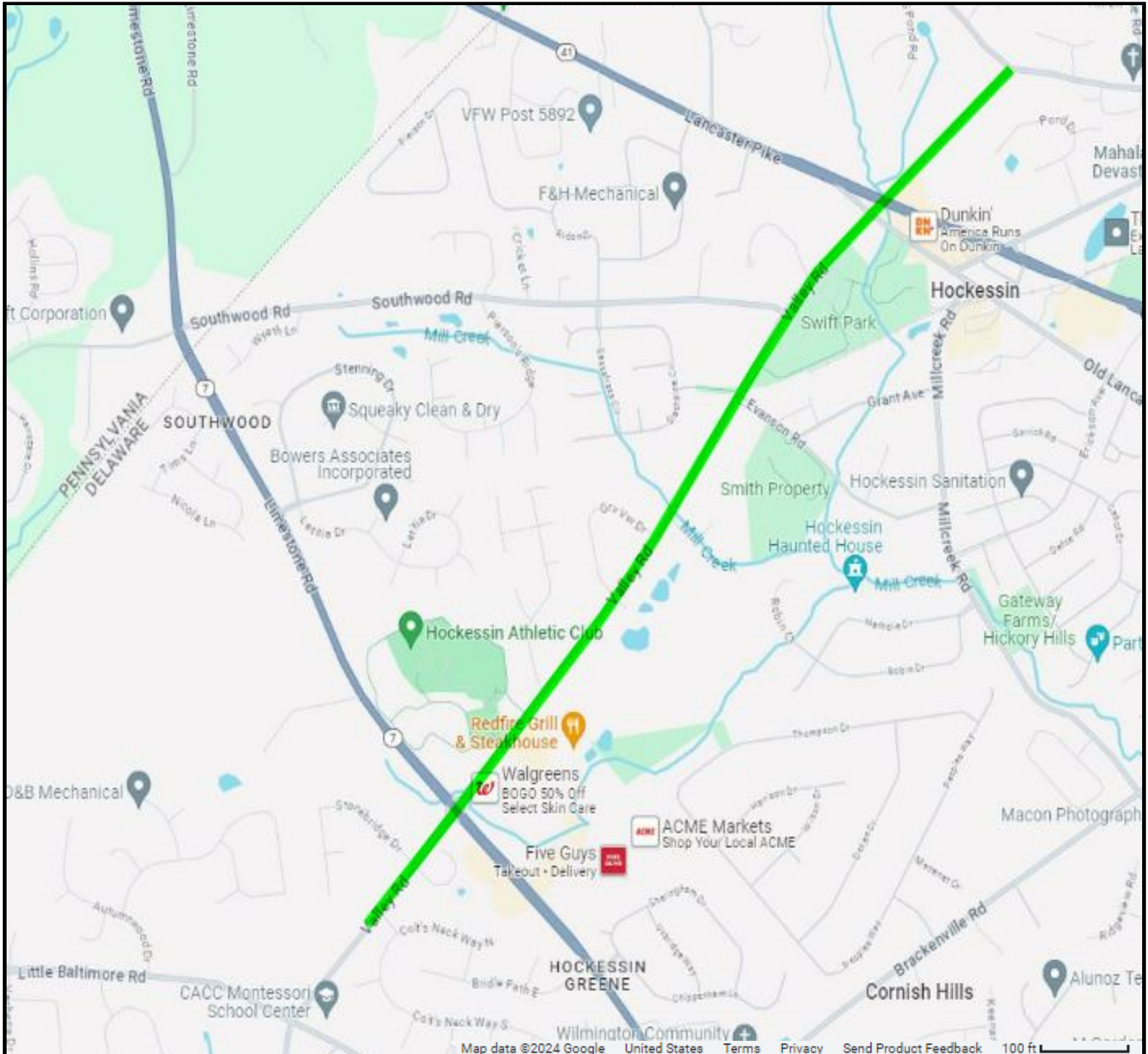
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FOLLOWING LOCATIONS WILL BE REHABILITATED - VALLEY RD AND CROSSAN RD

LOCATION MAP

LOCATION #2 - VALLEY ROAD FROM OLD WILMINGTON ROAD TO 305' WEST OF HUNTER WAY



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GENERAL CONTRACT PLAN NOTES

REVISED 11/2024

THE FOLLOWING GENERAL PLAN NOTES ARE TO BE USED WHEN APPLICABLE. ALL NOTES MAY NOT APPLY TO THE REFERENCED CONTRACT.

GENERAL

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", JANUARY 2024 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", 2024.

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.

DELDOT'S EXISTING RIGHT OF WAY OR EASMENT AREAS. SHOULD THE NEED OCCUR TO TRESPASS ONTO PRIVATE PROPERTY; IT WILL BE THE RESPONSIBILITY OF THE PROJECT MANAGER TO SECURE SUCH TRESPASS NEEDS.

4. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.4 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.

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MAINTENANCE OF TRAFFIC

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

6. WITHIN THE MAINLINE WORK AREA, PERMANENT ADVANCE WARNING SIGNS WITH THE LEGENDS "ROAD WORK AHEAD" "ROAD WORK NEXT XX MILES" FOR MAINLINES SHALL BE INSTALLED IN ADVANCE OF THE WORK AREA IN BOTH DIRECTIONS. AN "END ROAD WORK ZONE" SIGN SHALL BE LOCATED 500 FEET DOWNSTREAM FROM THE WORK AREA INCLUDING SIDE STREETS. ON INTERSECTING ROADWAYS WITHIN THE PROJECT LIMITS, A "ROAD WORK AHEAD" SIGN SHALL BE PLACED AT A DISTANCE NOT LESS THAN 500 FEET DOWNSTREAM OF THE WORK AREA. ALL PERMANENT ADVANCE WARNING SIGNS SHALL BE GROUND-MOUNTED ON TWO NCHRP-350 OR MASH APPROVED BREAKAWAY POSTS AND SHALL BE MOUNTED IN COMPLIANCE WITH THE DE-MUTCD. PERMANENT ADVANCE WARNING SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7 FEET, MEASURED FROM THE ROADWAY TO THE BOTTOM OF THE SIGN. THE USE OF SKID-MOUNTED SIGN SUPPORTS IS NOT ALLOWED UNLESS THE CONTRACTOR CAN DEMONSTRATE THAT A UTILITY CONFLICT EXISTS, WHICH SHALL BE VERIFIED BY THE ENGINEER; OR CONCRETE MEDIANS PREVENT THE INSTALLATION OF THE PERMANENT SIGNS IN THE APPROPRIATE LOCATION.

7. 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.

8. 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.

9. 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 TEMPORARILY BACKFILLED TO GRADE WITH COMPACTED MILLING MATERIAL ONLY. THIS TEMPORARY MATERIAL WILL BE INCIDENTAL TO THE CURB RAMP ITEM. THE DRESSING UP OF THE AREA BEING PAID AS A CURB RAMP WITH TOPSOIL AND SEED WILL BE PAID AT CONTRACT UNIT PRICES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND

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ALONG PEDESTRIAN FACILITIES AT ALL TIMES DURING CONSTRUCTION. EARTH, STONE AND GRAVEL SURFACES ARE NOT ACCEPTABLE FOR PROVIDING PEDESTRIAN ACCESS. IF CURB RAMP CANNOT BE COMPLETED IN A SINGLE OPERATION AND 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 801500 - MAINTENANCE OF TRAFFIC - ALL INCLUSIVE.

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 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 BY THE DISTRICT TRAFFIC SAFETY OFFICER

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.

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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.

10. AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR IF REQUIRED WILL BE NOTED IN THE PLANS ON THE LOCATIONS COMMENT PAGE. THAT PERSON'S SOLE RESPONSIBILITY SHALL BE THE MANAGEMENT AND SUPERVISION OF THE PROJECT'S TEMPORARY TRAFFIC CONTROL ACTIVITIES. THIS PERSON SHALL NOT HAVE ANY OTHER ROLE ON THE PROJECT. RESPONSIBILITIES AND REQUIREMENTS OF THE ATSSA SUPERVISOR ARE DEFINED IN SECTION 812 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR THE ATSSA SUPERVISOR WILL BE INCIDENTAL TO ITEM 801500 MAINTENANCE OF TRAFFIC ALL INCLUSIVE.

11. MESSAGE BOARDS SHALL BE PLACED 10 DAYS IN ADVANCE OF THE WORK AND SHALL REMAIN IN PLACE FOR 5 DAYS AFTER THE START OF WORK. LOCATIONS OF MESSAGE BOARDS AND MESSAGES DISPLAYED SHALL BE REVIEWED AND APPROVED BY THE DISTRICT SAFETY OFFICER.

12. FOR ITEM 806001 TRAFFIC OFFICERS, REQUIRED INVOICES WILL BE REVIEWED FOR ACCURACY. ANY MAJOR INACCURACIES WILL BE ADJUSTED ACCORDINGLY. FOR EXAMPLE, IF INVOICE SHOWS CHARGED HOURS ON A CERTAIN DATE AND WE HAVE DOCUMENTATION THAT NO WORK OCCURED THAT DATE OR NO OFFICERS WERE PRESENT THE INVOICE WILL BE ADJUSTED ACCORDINGLY. TRAFFIC OFFICERS ARE NOT REQUIRED FOR STANDARD LANE CLOSURES. ONLY NEEDED IN SIGNALIZED INTERSECTIONS OR AS DIRECTED BY THE ENGINEER.

IF TRAFFIC OFFICERS ARE USED FOR NON-SIGNAL RELATED ACTIVITIES, THEY ARE TO ENFORCE ALL TRAFFIC VIOLATIONS. THE OFFICER MUST SUBMIT STATS AT THE END OF EACH SHIFT, FAILURE TO DO SO MAY RESULT IN NO PAYMENT.

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13. HOLIDAY AND SPECIAL EVENTS

TRAVEL LANE AND RAMP CLOSINGS ON MULTILANE HIGHWAYS AND INTERSTATES SHALL NOT BE PERMITTED DURING THE FOLLOWING HOLIDAY/EVENT PERIODS:

- REFER TO SECTION 801 OF STANDARD SPECIFICATIONS

ADDITIONAL TIME RESTRICTIONS MAY APPLY AS NOTED IN THE PROJECT PLANS OR AS DIRECTED BY THE ENGINEER. ANY REQUESTS TO WAIVE ANY RESTRICTIONS MUST BE MADE IN WRITING TO THE ENGINEER FOR REVIEW AND APPROVAL. A COPY OF THE REQUEST SHALL BE PROVIDED TO THE DISTRICT SAFETY OFFICER FOR REVIEW.

PAVEMENT MARKINGS

14. THE CONTRACTOR WILL ONLY BE REQUIRED TO SUBMIT DETAILED DRAWINGS AND/OR VIDEO FOOTAGE OF THE EXISTING PAVEMENT MARKINGS IF DIRECTED BY THE ENGINEER. SIGNING AND STRIPING PLANS IN MOST CASES WILL BE PROVIDED AT THE TIME OF ADVERTISEMENT.

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 6-6-6 CONFIGURATION (2 EACH, 6" YELLOW STRIPES WITH A 6" GAP BETWEEN).

15. 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.

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

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17. ALL CROSSWALKS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3B.18 OF THE 2011 DELAWARE MUTCD. PAVEMENT MARKING QUANTITIES WILL BE INCLUDED ON THE SIGNING AND STRIPING PLANS AT ADVERTISEMENT.

TRAFFIC SIGNAL NOTES

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

19. TRAFFIC DETECTION LOOPS THAT ARE CURRENTLY 5'x7' SHALL BE REPLACED WITH LOOPS THAT ARE 6'x6' AT THE SAME LOCATION, OR AS DIRECTED BY THE ENGINEER. STOP BAR DETECTION LOOPS SHALL BE THE SAME SIZE AS CURRENTLY EXISTING, AND SHOULD BE PLACED STARTING ONE FOOT BEHIND THE STOP BAR, BUT PLACEMENT MAY BE ADJUSTED TO ADDRESS FIELD REQUIREMENTS. IF SEPARATE SIGNAL PLANS HAVE BEEN DEVELOPED, THE PLANS SUPERSEDE THIS NOTE. PRIOR TO DISCONNECTING ANY LOOPS; NON-INTRUSIVE DETECTION DEVICE(S) MUST BE INSTALLED AND WORK.

IF A LOCATION (INTERSECTION) WILL BE UTILIZING TEMPORARY DETECTION EQUIPMENT IT WILL BE NOTED ON THE LOCATION COMMENTS PAGE. DELDOT TRAFFIC SECTION WILL PROVIDE AND INSTALL THE EQUIPMENT.

PROJECT

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

21. 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 ITEM 401XXX. PREPARING UNPAVED DRIVEWAY ENTRANCES BEYOND THE FIRST 3' SHALL BE PAID UNDER THE APPROPRIATE CONTRACT ITEMS: 202000 AND/OR 301XXX.

22. 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

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A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS WILL NOT BE ALLOWED FOR USE AS RAMPING MATERIAL.

23. 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.

24. MILLILING OF BITUMINOUS PAVEMENT IN PREPERATION FOR OVERLAY IS TO INCLUDE MILLING EXISTING CONCRETE PATCHES AND/OR COMPOSITE PAVING AND SHALL BE CONSIDERED INCIDENTAL TO ITEM 760010. ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED.

25. EXCAVATION UP TO 2' IN FRONT OF CURB WILL BE INCIDENTAL TO ITEM 701XXX AND ITEMS 702000, 705008, 705009, AND 705010. HOT MIX PLACED IN FRONT OF CURB WILL BE PAID UNDER ITEM 401XXX. USE OF CONCRETE AS FILL IN FRONT OF CURB WILL NOT 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 908XXX, 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.

26. 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.

27. 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.

28. 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

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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.

29. ALL PORTLAND CEMENT CONCRETE MUST BE RECEIVED FROM AN APPROVED PRODUCTION PLANT. 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.

30. DRAINAGE INLETS, WHICH ARE 4' GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 602.3 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 602XXX.

31. THE PORTLAND CEMENT CONCRETE USED FOR ITEM 602130 - ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET, ITEM 602132 - ADJUST AND REPAIR EXISTING MAN HOLES AND ITEM 710002 - ADJUST WATER VALVE BOX SHALL CONFORM TO THE REQUIREMENTS OF CLASS A CONCRETE (6 HOUR ROADWAY MIX) AS STATED WITHIN SECTION 503.3.7 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS. ALSO, THE PERIMETER OF THE UTILITY ADJUSTMENT WILL BE SEALED AND WILL BE CONSIDERED INCIDENTAL TO THE APPLICABLE ADJUSTMENT ITEM.

32. WHEN JACKHAMMERING OR THE USE OF A BREAKER IS NECESSARY ON CONTRACTS THAT OCCUR DURING THE NIGHTTIME HOURS THE JACKHAMMERING AND BREAKING MUST CEASE AT 12:00AM REGARDLESS OF ANY NOISE WAIVER THAT MAY EXIST. IF A NOISE WAIVER EXISTS IT WILL BE NOTED ON THE LOCATIONS COMMENT PAGE.

33. WHEN CONTRACT INCLUDES ITEMS 503001 AND 503002 PATCHES WILL BE PRESUMED TO BE STANDARD PATCH SIZES AND LOCATIONS WILL BE DETERMINED AT THE CONSTRUCTION PRE-WALK. THE USE OF STEEL PLATES WILL BE PROHIBITED. ROADWAY MUST BE RETURNED TO UNRESTRICTED USE AT THE END OF EACH WORK DAY. ALL PCC PAVEMENT WILL BE PRESUMED TO BE 9".

34. PCC PATCHING: WHEN THE PATCH SURFACE WILL BE PART OF THE FINAL SURFACE OF THE ROADWAY, THE PATCH SURFACE SHALL BE FINISHED TO MATCH THE TEXTURE OF THE ADJACENT PAVEMENT. THE PATCH SURFACE CROSS SECTION SHALL MATCH THE PRECEDING AND FOLLOWING PAVEMENT SURFACES. THE ENGINEER MAY TEST FOR EXCESSIVE DEVIATIONS WITH A 10 FOOT STRAIGHTEDGE. WHEN TESTED WITH A STRAIGHTEDGE, EXCESSIVE DEVIATIONS ARE SURFACE DEVIATIONS GREATER THAN

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1/4 INCH FROM A REFERENCE LINE BETWEEN POINTS 10 FEET APART ALONG THE DIRECTION OF TRAFFIC. THE CONTRACTOR SHALL CORRECT UNACCEPTABLE DEVIATIONS IN THE PATCH AREAS.

35. ITEM 763621 CONSTRUCTION ENGINEERING, REHABILITATION WILL COMPENSATE THE CONTRACTOR FOR THE FOLLOWING SURVEY ACTIVITIES. ANY LAYOUT ASSOCIATED WITH ADA IMPROVEMENTS, PROVIDING GRADES FOR UTILITY ADJUSTMENTS IF NECESSARY, THE LAYOUT OF LANE LINES FOR PAVING, GRADES FOR THE INSTALLATION OF DRAINAGE STRUCTURES OR OTHER ITEMS OF WORK AS DETERMINED BY THE ENGINEER OR PROGRAM MANAGER. THIS ITEM WILL NOT COMPENSATE THE CONTRACTOR FOR THE LAYOUT OF STRIPING AS THIS IS THE RESPONSIBILITY OF THE STRIPING SUBCONTRACTOR. THE HOURLY PAYMENT WILL BE BASED UPON ACTUAL HOURS OF SURVEYING PERFORMED IN THE FIELD. IT WILL NOT INCLUDE TIME SPENT IN VEHICLE OR OFFICE. THE SURVEY CREW WILL BE RESPONSIBLE UPON ARRIVAL AND DEPARTURE ON THE JOBSITE TO CONTACT A MEMBER OF THE INSPECTION STAFF SO THAT HOURS CAN BE TRACKED FOR PAYMENT. THE CONSEQUENCE FOR NOT DOING THIS WILL BE NON-PAYMENT FOR THE SURVEYING SERVICES.

36. UPON RECEIPT OF THE MONTHLY PAY ESTIMATE ANY ISSUES OR DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER/PROGRAM MANAGER IF POSSIBLE BEFORE THE ISSUANCE OF THE NEXT PAY ESTIMATE. TO ALLOW FOR INVOICES FROM SUBCONTRACTORS ETC., A 60 DAY TIME PERIOD TO REPORT DISCREPANCIES WILL BE PERMITTED. ANY DISCREPANCIES BEYOND THE 60 DAY TIME PERIOD WILL NOT BE ENTERTAINED.

37. BITUMINOUS CONCRETE PATCHING: PATCH DEPTH SHOULD BE PRESUMED TO BE 6" UNLESS ADJUSTED BY THE ENGINEER OR AN INDIVIDUAL REPRESENTING THE DELAWARE DEPARTMENT OF TRANSPORTATION. ALL BITUMINOUS PATCHING WILL BE PERFORMED UTILIZING A MILLING MACHINE AND PAVER UNLESS DIRECTED OTHERWISE.

38. CLEARING AND GRUBBING INCLUDES OBTAINING WIDTH AND HEIGHT REQUIREMENTS FOR PAR AND CLEARING OF SIGHT DISTANCE IN FRONT OF SIGNS (INCLUDING EXISTING SIGNS).

39. IN ORDER TO MAINTAIN EFFECTIVE COMMUNICATION WITH THE TRAVELING PUBLIC, ONLY PLACE SIGNS, BANNERS, FLAGS, OR OTHER DISPLAYS WITHIN THE PROJECTS LIMITS THAT MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ANY SIGNS OR OTHER MATERIALS WHICH DEVIATE FROM THE MUTCD, MUST BE PREAPPROVED BY THE ENGINEER. THE ONLY SIGNAGE AND MATERIALS WHICH MAY BE DISPLAYED UPON VEHICLES AND EQUIPMENT WITHIN THE PROJECT AREA ARE SIGNS DENOTING THE NAME OF THE CONTRACTOR AND ANY SUBCONTRACTORS AND OTHER SIGNS AND/OR MATERIALS REQUIRED AND APPROVED PURSUANT TO THE MUTCD AND THE ENGINEER. CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SIGNS OR MATERIALS WITHIN THE PROJECT THAT DOES NOT MEET THESE REQUIREMENTS

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**CONTRACT NUMBER- T202406102 NORTH MAINTENANCE
PAVEMENT AND REHABILITATION, NORTH II, 2024**

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GENERAL CONTRACT PLAN NOTES

IMMEDIATELY UPON NOTIFICATION BY THE ENGINEER. FAILURE TO REMOVE SIGNS OR OTHER MATERIALS FOLLOWING NOTIFICATION FROM THE ENGINEER WILL RESULT IN LIQUIDATED DAMAGES BEING ASSESSED IN THE MANNER AND AMOUNT SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 108.9A

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

LOCATION 1 293(CROSSAN ROAD) FROM DOE RUN ROAD (RD290) TO UPPER PIKE CREEK ROAD (RD295)

LENGTH 1657.5024 m 5438.0000 L.F. AADT 482

GENERAL IMPROVEMENTS

2" BITUMINOUS MILLING; BITUMINOUS PATCHING; 2" TYPE C OVERLAY; PAVEMENT MARKINGS

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

301003	GABC	48.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	1,330.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	327.00	TON
401600	HMA/WMA ENVIRONMENTAL PRODUCT DECLARATION (EPD)	1.00	L.S.
401690	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING AND MILLING SURCHARGE	42.00	TON
402000	BITUMINOUS CONCRETE PATCHING	5,637.00	SY-IN
403000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS (TRM) CONCRETE	20.00	TON
710002	ADJUST WATER VALVE BOXES	1.00	EACH
711500	ADJUST AND REPAIR EXISTING SANITARY MANHOLE	11.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	22,937.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	166.00	L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	5.00	HOUR
802003	ARROW PANELS TYPE C	19.00	EA-DY
803001	PROVIDE AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	30.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY	304.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, OVERTIME	30.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	82.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	34,480.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	164.00	S.F.
817006	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	70.00	L.F.
817042	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 6"	17,240.00	L.F.
818001	SUPPLY OF FLAT SHEET ALUMINUM SIGN PANEL, TYPE IV, RETROREFLECTIVE SHEETING	27.00	S.F.
818003	SUPPLY OF FLAT SHEET ALUMINUM SIGN PANEL, TYPE XI, RETROREFLECTIVE SHEETING	21.00	S.F.

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

LOCATION 1 293(CROSSAN ROAD) FROM DOE RUN ROAD (RD290) TO UPPER PIKE CREEK ROAD (RD295)

LENGTH 1657.5024 m 5438.0000 L.F. AADT 482

GENERAL IMPROVEMENTS

2" BITUMINOUS MILLING; BITUMINOUS PATCHING; 2" TYPE C OVERLAY; PAVEMENT MARKINGS

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

819011	GALVANIZED TELESCOPING STEEL SIGN POSTS, 12' X 2", COMPLETE W/ BASEPOSTS AND HARDWARE	4.00	EACH
819018	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	29.00	EACH
908001	TOPSOIL	245.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	1,210.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	1,210.00	S.Y.

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

LOCATION 1 293(CROSSAN ROAD) FROM DOE RUN ROAD (RD290) TO UPPER PIKE CREEK ROAD (RD295)

COMMENTS:

Recommended Traffic Control:

TA-10, Road Closures with Detours

Restricted Work Hours:

See allowable lane closures matrix on sheet 5 of the construction plans.

Curb Ramp/Triangular Channelizing Island Locations:

None

Entrance and Driveway Locations - Cut Back Distances:

Doe Run @ Crossan Road - 27'

House #729 - 9'

Northstar Road @ Upper Pike Creeek Road - 51'

House #844 - 9'

(feet) = length of tie-in to joint

Utility Adjustments:

Water Valve (1)

Sanitary Manhole (11)

Notes:

FINAL PAVEMENT SHALL MEET THE SURFACE REQUIREMENTS, AS SPECIFIED IN ITEM 401580 - RIDE QUALITY OF BITUMINOUS CONCRETE PAVEMENT

SEE LOCATION #2 VALLEY ROAD FOR NOTE REFERENCING ITEM 201000 CLEARING AND GRUBBING.

DELAWARE DEPARTMENT OF TRANSPORTATION

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

LOCATION 2 294(VALLEY ROAD) FROM OLD WILMINGTON ROAD (RD275) TO 305' WEST OF HUNTER WAY (NC-127080-F)

LENGTH 3123.2856 m 10247.0000 L.F. AADT 9682

GENERAL IMPROVEMENTS

2" BITUMINOUS MILLING; BITUMINOUS PATCHING; 2" TYPE C OVERLAY; PEDESTRIAN FACILITY UPGRADES, PAVEMENT MARKINGS

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

201000	CLEARING AND GRUBBING	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	475.00	S.Y.
301003	GABC	75.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	16.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	1,000.00	TON
401031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	15.00	TON
401046	SUPERPAVE TYPE C, PG 76-22 (NON-CARBONATE STONE)	6,020.00	TON
401600	HMA/WMA ENVIRONMENTAL PRODUCT DECLARATION (EPD)	1.00	L.S.
401690	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING AND MILLING SURCHARGE	319.00	TON
402000	BITUMINOUS CONCRETE PATCHING	17,241.00	SY-IN
403000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS (TRM) CONCRETE	200.00	TON
602100	DRAINAGE INLET GRATE(S)	5.00	EACH
602101	DRAINAGE INLET FRAME(S)	5.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	23.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00	EACH
701022	I.PCC CURB AND GUTTER, TYPE 3-6	16.00	L.F.
701023	I.PCC CURB AND GUTTER, TYPE 3-8	119.00	L.F.
702000	TRIANGULAR CHANNELIZING ISLANDS	2,000.00	S.F.
705001	PCC SIDEWALK, 4"	1,565.00	S.F.
705002	PCC SIDEWALK, 6"	350.00	S.F.
705007	DETECTABLE WARNING SURFACE	154.00	S.F.
705008	PEDESTRIAN CONNECTION, TYPE 1	241.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	616.00	S.F.

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

LOCATION 2 294(VALLEY ROAD) FROM OLD WILMINGTON ROAD (RD275) TO 305' WEST OF HUNTER WAY (NC-127080-F)

LENGTH 3123.2856 m 10247.0000 L.F. AADT 9682

GENERAL IMPROVEMENTS

2" BITUMINOUS MILLING; BITUMINOUS PATCHING; 2" TYPE C OVERLAY; PEDESTRIAN FACILITY UPGRADES, PAVEMENT MARKINGS

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

710002	ADJUST WATER VALVE BOXES	8.00	EACH
710503	ADJUST GAS VALVE BOXES	2.00	EACH
711500	ADJUST AND REPAIR EXISTING SANITARY MANHOLE	20.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	103,774.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,809.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	260.00	L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	80.00	HOUR
802003	ARROW PANELS TYPE C	70.00	EA-DY
803001	PROVIDE AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	50.00	EA-DY
806001	** TRAFFIC OFFICERS	560.00	HOUR
811001	FLAGGER, NEW CASTLE COUNTY	2,240.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, OVERTIME	224.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	4,913.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	110,284.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	9,826.00	S.F.
817006	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	11.00	L.F.
817015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	45.00	EACH
817042	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 6"	55,142.00	L.F.
818001	SUPPLY OF FLAT SHEET ALUMINUM SIGN PANEL, TYPE IV, RETROREFLECTIVE SHEETING	88.00	S.F.
818003	SUPPLY OF FLAT SHEET ALUMINUM SIGN PANEL, TYPE XI, RETROREFLECTIVE SHEETING	34.00	S.F.
819011	GALVANIZED TELESCOPING STEEL SIGN POSTS, 12' X 2", COMPLETE W/ BASEPOSTS AND HARDWARE	14.00	EACH
819018	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	74.00	EACH

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

LOCATION 2 294(VALLEY ROAD) FROM OLD WILMINGTON ROAD (RD275) TO 305' WEST OF HUNTER WAY (NC-127080-F)

LENGTH 3123.2856 m 10247.0000 L.F. AADT 9682

GENERAL IMPROVEMENTS

2" BITUMINOUS MILLING; BITUMINOUS PATCHING; 2" TYPE C OVERLAY; PEDESTRIAN FACILITY UPGRADES, PAVEMENT MARKINGS

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

824005	TUBULAR MARKER , WHITE, 28"	3.00	EACH
832509	INSTALL CAT5E VIDEO DETECTOR CABLE	799.00	L.F.
844521	INSTALL VIDEO DETECTION DEVICE	8.00	EACH
844525	RELOCATE MICROWAVE DETECTION DEVICE	8.00	EACH
846001	PROVIDE AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	1,177.00	L.F.
846002	PROVIDE AND INSTALL A 1-1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE	54.00	L.F.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	101.00	EACH
908001	TOPSOIL	300.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	1,500.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	1,500.00	S.Y.

** DENOTES FIXED PRICE ITEM

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

LOCATION 2 294(VALLEY ROAD) FROM OLD WILMINGTON ROAD (RD275) TO 305' WEST OF HUNTER WAY (NC-127080-F)

COMMENTS:

Recommended Traffic Control:

TA-10, TA-3, TA-33, TA-21A, TA-3A

Restricted Work Hours:

See allowable lane closures matrix on sheet 5 of the construction plans.

Curb Ramp/Triangular Channelizing Island Locations:

See construction plans

Entrance and Driveway Locations - Cut Back Distances:

Ramp off Lancaster Pike - 29'
Library Entrance - 45'
Entrance to Lantana Square - 28'
Walgreens Exit - 29'
Walgreens Entrance - 46'
Stonebridge Drive North - 67'
Stonebridge Drive South - 70'
Hunters Way - 34'
Brook Run - 38'
House #1183 - 18'
House #1163 - 8'
House #1154 - 7'
House #1135 - 5'
House #1131 - 6'
Office Building - 12'
House #912 - 11'
House #910 - 9'
House #904 - 8'
House #876 - 13'
House #870 - 11'
House #838 - 9'
House #834 - 12'
House #830 - 9'
House #746 - 11'
House #730 - 8'
House #466 - 14'
Old Wilmington Road - 54'

(feet) = length of tie-in to joint

Utility Adjustments:

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

LOCATION 2 294(VALLEY ROAD) FROM OLD WILMINGTON ROAD (RD275) TO 305' WEST
OF HUNTER WAY (NC-127080-F)

Water Valve (8)
Sanitary Manhole (20)
DelDOT Manholes (3)
Gas Valves (2)
Telephone Manholes (2)

Notes:

FINAL PAVEMENT SHALL MEET THE SURFACE REQUIREMENTS, AS SPECIFIED IN ITEM 401580 - RIDE
QUALITY OF BITUMINOUS CONCRETE PAVEMENT

SEE GENERAL CONTRACT PLAN NOTE #38 IN REFERENCE TO ITEM 201000 CLEARING AND GRUBBING. ALSO
PLEASE NOTE, ITEM 201000 CLEARING AND GRUBBING IS TO BE USED IF NEEDED ON ALL ORIGINAL
CONTRACT LOCATIONS ASSOCIATED WITH THIS CONTRACT. ALL CLEARING AND GRUBBING PERFORMED ON
THIS CONTRACT WILL BE PAID UNDER ITEM 201000 ON LOCATION #2 VALLEY ROAD. THE LUMP SUM PRICE
BID WILL COMPENSATE THE CONTRACTOR FOR ALL CLEARING AND GRUBBING PERFORMED AS PART OF THIS
CONTRACT (ORIGINAL CONTRACT LOCATIONS ONLY).

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

CONTRACT QUANTITIES SUMMARY SHEET

201000	CLEARING AND GRUBBING	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	475.00	S.Y.
301003	GABC	123.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	1,330.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	16.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	1,327.00	TON
401031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	15.00	TON
401046	SUPERPAVE TYPE C, PG 76-22 (NON-CARBONATE STONE)	6,020.00	TON
401600	HMA/WMA ENVIRONMENTAL PRODUCT DECLARATION (EPD)	1.00	L.S.
401690	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING AND MILLING SURCHARGE	361.00	TON
402000	BITUMINOUS CONCRETE PATCHING	22,878.00	SY-IN
403000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS (TRM) CONCRETE	220.00	TON
602100	DRAINAGE INLET GRATE(S)	5.00	EACH
602101	DRAINAGE INLET FRAME(S)	5.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	23.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00	EACH
701022	I.PCC CURB AND GUTTER, TYPE 3-6	16.00	L.F.
701023	I.PCC CURB AND GUTTER, TYPE 3-8	119.00	L.F.
702000	TRIANGULAR CHANNELIZING ISLANDS	2,000.00	S.F.
705001	PCC SIDEWALK, 4"	1,565.00	S.F.
705002	PCC SIDEWALK, 6"	350.00	S.F.
705007	DETECTABLE WARNING SURFACE	154.00	S.F.
705008	PEDESTRIAN CONNECTION, TYPE 1	241.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	616.00	S.F.
710002	ADJUST WATER VALVE BOXES	9.00	EACH
710503	ADJUST GAS VALVE BOXES	2.00	EACH
711500	ADJUST AND REPAIR EXISTING SANITARY MANHOLE	31.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	126,711.00	SY-IN

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

CONTRACT QUANTITIES SUMMARY SHEET

762000	SAW CUTTING, BITUMINOUS CONCRETE	1,975.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	260.00	L.F.
763000	INITIAL EXPENSE/DE-MOBILIZATION	LUMP	SUM
763621	CONSTRUCTION ENGINEERING, REHABILITATION	85.00	HOURLY
801500	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP	SUM
802003	ARROW PANELS TYPE C	89.00	EA-DY
803001	PROVIDE AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	80.00	EA-DY
806001	** TRAFFIC OFFICERS	560.00	HOURLY
811001	FLAGGER, NEW CASTLE COUNTY	2,544.00	HOURLY
811013	FLAGGER, NEW CASTLE COUNTY, OVERTIME	254.00	HOURLY
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	4,995.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	144,764.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	9,990.00	S.F.
817006	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	81.00	L.F.
817015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	45.00	EACH
817042	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 6"	72,382.00	L.F.
818001	SUPPLY OF FLAT SHEET ALUMINUM SIGN PANEL, TYPE IV, RETROREFLECTIVE SHEETING	115.00	S.F.
818003	SUPPLY OF FLAT SHEET ALUMINUM SIGN PANEL, TYPE XI, RETROREFLECTIVE SHEETING	55.00	S.F.
819011	GALVANIZED TELESCOPING STEEL SIGN POSTS, 12' X 2", COMPLETE W/ BASEPOSTS AND HARDWARE	18.00	EACH
819018	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	103.00	EACH
824005	TUBULAR MARKER , WHITE, 28"	3.00	EACH
832509	INSTALL CAT5E VIDEO DETECTOR CABLE	799.00	L.F.
844521	INSTALL VIDEO DETECTION DEVICE	8.00	EACH
844525	RELOCATE MICROWAVE DETECTION DEVICE	8.00	EACH
846001	PROVIDE AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	1,177.00	L.F.
846002	PROVIDE AND INSTALL A 1-1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH	54.00	L.F.

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH II, 2024

CONTRACT QUANTITIES SUMMARY SHEET

LOOP WIRE			
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	101.00	EACH
908001	TOPSOIL	545.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	2,710.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	2,710.00	S.Y.

** DENOTES FIXED PRICE ITEM