

THE STATE OF DELAWARE



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

PAVEMENT AND REHABILITATION, NORTH IX, 2019

CONTRACT NUMBER - T201906109.01

PRIMAVERA ID - 19-06109

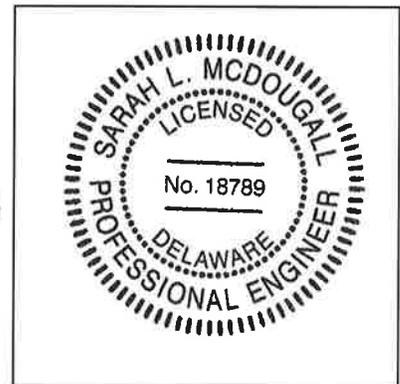
FEDERAL AID NUMBER - ESTP-2019(18)

COUNTY: NEW CASTLE

PLANS PREPARED BY: Mike Beulah  
DESIGNER

UNOFFICIAL  
WEBSITE  
COPY

Sarah McDougall      1/9/2020  
DELDOT - TRANSPORTATION SOLUTIONS      DATE  
PAVEMENT MANAGEMENT - (PM)



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

APPROVED FOR ADVERTISEMENT

[Signature]      1/9/2020  
DIRECTOR OF TRANSPORTATION SOLUTIONS      DATE

DEPARTMENT OF TRANSPORTATION

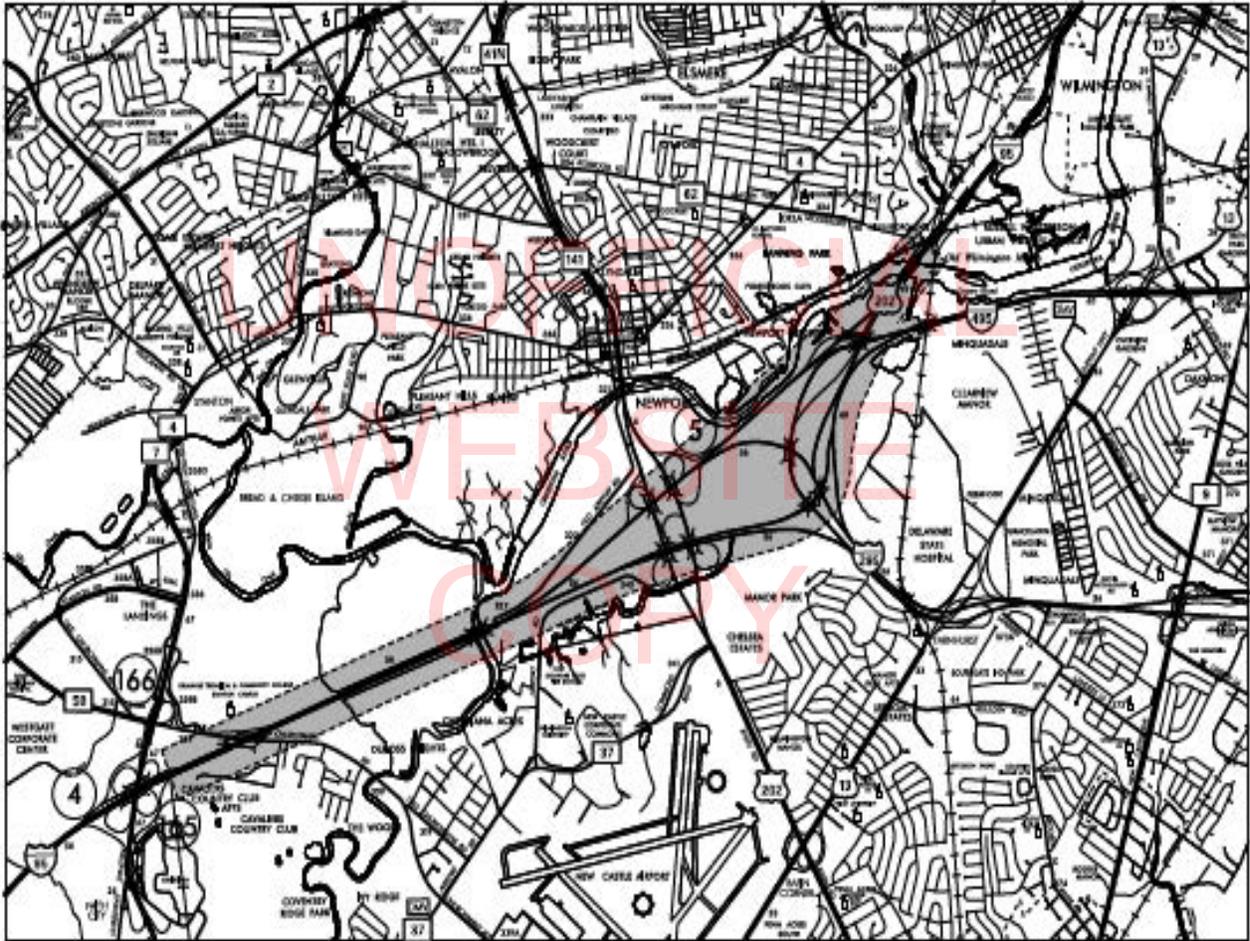
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JOHN F KENNEDY MEMORIAL HWY (I-95) - CHURCHMANS RD - CHRISTIANA RIVER BRIDGE

LOCATION MAP

END CONTRACT  
T201906109



BEGIN CONTRACT  
T201906109

LOCATION MAP  
NOT TO SCALE

**GENERAL CONTRACT PLAN NOTES**

**REVISED 01/2020**

**THE FOLLOWING GENERAL NOTES ARE PRESENT IN ALL N.C.C. PAVEMENT AND REHABILITATION CONTRACTS AND ARE TO BE USED WHEN APPLICABLE UNLESS CHANGED/REVISED BY CONSTRUCTION PLAN NOTES.**

**GENERAL**

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2016 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

**GENERAL CONTRACT PLAN NOTES**

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.

**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. WITHIN THE MAINLINE WORK AREA, PERMANENT ADVANCE WARNING SIGNS WITH THE LEGENDS "ROAD WORK 1500 FT", "ROAD WORK 1000 FT", AND "ROAD WORK 500 FT" 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. 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.

**GENERAL CONTRACT PLAN NOTES**

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 BACKFILLED TO GRADE WITH COMPACTED MILLING MATERIAL ONLY. THIS 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 INCIDENTAL TO THE CURB RAMP ITEMS. 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. 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 801XXX - 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

**GENERAL CONTRACT PLAN NOTES**

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.

**GENERAL CONTRACT PLAN NOTES**

10. AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR SHALL BE REQUIRED FOR ALL LOCATIONS SPECIFIED IN THE CONTRACT PLANS. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. 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.

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. **HOLIDAY AND SPECIAL EVENTS**

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

- DECEMBER 24 THROUGH DECEMBER 27 (CHRISTMAS DAY)
- DECEMBER 31 THROUGH JANUARY 3 (NEW YEAR'S DAY)
- FRIDAY PRIOR TO EASTER THROUGH EASTER SUNDAY
- THURSDAY PRIOR TO MEMORIAL DAY THROUGH THE TUESDAY FOLLOWING MEMORIAL DAY
- DOVER INTERNATIONAL SPEEDWAY RACE WEEKENDS (THURSDAY PRIOR TO THE RACE EVENT THROUGH THE DAY AFTER THE RACE EVENT)
- JULY 3 THROUGH JULY 5 (INDEPENDENCE DAY)
- THURSDAY PRIOR TO LABOR DAY THROUGH THE TUESDAY FOLLOWING LABOR DAY
- WEDNESDAY PRIOR TO THANKSGIVING DAY THROUGH THE MONDAY FOLLOWING THANKSGIVING DAY

**GENERAL CONTRACT PLAN NOTES**

- FIREFLY MUSIC FESTIVAL – WEDNESDAY PRIOR TO THE EVENT THROUGH THE MONDAY FOLLOWING THE EVENT

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**

13. SIGNING AND STRIPING PLANS WILL BE PROVIDED AT THE PRECONSTRUCTION MEETING. THE CONTRACTOR WILL NOT BE REQUIRED TO SUBMIT DETAILED DRAWINGS OF THE EXISTING PAVEMENT MARKINGS.

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).

14. 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.

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

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**GENERAL CONTRACT PLAN NOTES**

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

**TRAFFIC SIGNAL NOTES**

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

18. 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 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.

**PROJECT**

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

20. 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.

21. 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

**GENERAL CONTRACT PLAN NOTES**

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.

22. 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.

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

24. EXCAVATION UP TO 2' 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 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.

25. 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.

**GENERAL CONTRACT PLAN NOTES**

26. 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.

27. 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.

28. 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.

29. DRAINAGE INLETS, WHICH ARE 4' GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 602.03 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 602XXX.

30. 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 503.03.7 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.

31. 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.

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GENERAL CONTRACT PLAN NOTES

32. ANY RECYCLED ASPHALT PAVEMENT MATERIAL REQUIRED TO MAKE PEDESTRIAN CONNECTIONS ADA COMPLIANT IF NOT COMPLETED IN THE SAME SHIFT AT CURB, SIDEWALK, CURB RAMPS, ISLANDS, ETC. WILL BE INCIDENTAL TO THE PAY ITEM ASSOCIATED WITH THE WORK. RECYCLED ASPHALT PAVEMENT MATERIAL IS THE ONLY APPROVED MATERIAL FOR THIS PRACTICE.

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. 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.

35. 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.

**GENERAL CONTRACT PLAN NOTES**

36. 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.

37. 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 1/8 INCH FROM A REFERENCE LINE BETWEEN POINTS NOT GREATER THAN 10 FEET APART ALONG THE DIRECTION OF TRAFFIC. THE CONTRACTOR SHALL CORRECT UNACCEPTABLE DEVIATIONS IN THE PATCH AREAS.

38. 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 PERFORMED UTILIZING A MILLING MACHINE AND PAVER UNLESS DIRECTED OTHERWISE.

COPY

**DELAWARE DEPARTMENT OF TRANSPORTATION**

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**NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019**

**LOCATION 1 56(JOHN F KENNEDY MEMORIAL HIGHWAY) FROM CHURCHMANS RD TO CHRISTINA RIVER BRIDGE**

LENGTH 5793.6384 m 19008.0000 L.F.

**GENERAL IMPROVEMENTS**

PAV'T. MILLING BIT. CONCRETE; BIT. CONCRETE PATCHING; SMA OVERLAY; IMPROVEMENTS TO RAMP "G" AT CHURCHMANS ROAD; RUMBLE STRIPS BIT. PAV'T.; GUARDRAIL; REMOVAL OF PAV'T. STRIPING; PAV'T. MARKINGS, RPM'S; SIGNING

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 1**

201000	CLEARING AND GRUBBING	1.00	L.S.
202000	EXCAVATION AND EMBANKMENT	3,154.00	C.Y.
209004	BORROW, TYPE C	214.00	C.Y.
211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	18,150.00	L.F.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	1,284.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	443.00	TON
401015	SUPERPAVE TYPE B, PG 70-22	651.00	TON
401016	SUPERPAVE TYPE B, PG 76-22	1,000.00	TON
401021	SUPERPAVE TYPE BCBC, PG 64-22	1,298.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	382.00	TON
401031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	503.00	TON
401501	BITUMINOUS ASPHALT TACK COAT	285.00	GAL
401517	STONE MATRIX ASPHALT (SMA) WEARING SURFACE	35,079.00	TON
402000	BITUMINOUS CONCRETE PATCHING	17,250.00	SY-IN
501504	INTERFACE JOINT SEALING REPAIR	8,250.00	L.F.
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	64.00	EACH
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	9,999.00	L.F.
708500	GEOTEXTILE, PAVEMENT INTERLAYER, SPECIAL	22,000.00	S.Y.
709001	PERFORATED PIPE UNDERDRAINS, 6"	974.00	L.F.
709011	UNDERDRAIN OUTLET PIPE, 6"	20.00	L.F.
709017	UNDERDRAIN OUTLET	1.00	EACH
720021	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	16,872.00	L.F.
720022	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	50.00	L.F.
720023	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 3-31	130.00	L.F.
721001	GUARDRAIL END TREATMENT, TYPE 1-31, TEST LEVEL 3	6.00	EACH

**DELAWARE DEPARTMENT OF TRANSPORTATION**

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**NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019**

**LOCATION 1 56(JOHN F KENNEDY MEMORIAL HIGHWAY) FROM CHURCHMANS RD TO CHRISTINA RIVER BRIDGE**

**LENGTH 5793.6384 m 19008.0000 L.F.**

**GENERAL IMPROVEMENTS**

PAV'T. MILLING BIT. CONCRETE; BIT. CONCRETE PATCHING; SMA OVERLAY; IMPROVEMENTS TO RAMP "G" AT CHURCHMANS ROAD; RUMBLE STRIPS BIT. PAV'T.; GUARDRAIL; REMOVAL OF PAV'T. STRIPING; PAV'T. MARKINGS, RPM'S; SIGNING

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 1**

721006	END ANCHORAGE 31	8.00	EACH
721009	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)	3.00	EACH
721010	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	4.00	EACH
721013	GUARDRAIL TO BARRIER CONNECTION, EXIT TYPE 27	2.00	EACH
721014	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27	2.00	EACH
724006	PERMANENT IMPACT ATTENUATOR, TYPE 6	4.00	EACH
760006	RUMBLE STRIPS, BITUMINOUS PAVEMENT	61,723.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	603,357.00	SY-IN
760012	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, VARIABLE DEPTH	6,509.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	10,016.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	1,540.00	L.F.
763501	CONSTRUCTION ENGINEERING	1.00	L.S.
802003	ARROW PANELS TYPE C	118.00	EA-DY
803001	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	219.00	EA-DY
804001	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	2,232.00	EA-DY
805001	PLASTIC DRUMS	4,643.00	EA-DY
806001	** TRAFFIC OFFICERS	1,548.00	HOURLY
807001	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	1,720.00	L.F.
807004	RELOCATE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	30,100.00	L.F.
807007	REFLECTOR PANELS	36.00	EACH
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	388.00	EA-DY
809001	INSTALL TEMPORARY IMPACT ATTENUATOR	37.00	EACH
809005	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	2.00	EACH
809006	RELOCATE TEMPORARY IMPACT ATTENUATOR	35.00	EACH
810001	TEMPORARY WARNING SIGNS AND PLAQUES	1,500.00	EA-DY

**DELAWARE DEPARTMENT OF TRANSPORTATION**

**CONTRACT T201906109.01**

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**NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019**

**LOCATION 1 56(JOHN F KENNEDY MEMORIAL HIGHWAY) FROM CHURCHMANS RD TO CHRISTINA RIVER BRIDGE**

LENGTH 5793.6384 m 19008.0000 L.F.

**GENERAL IMPROVEMENTS**

PAV'T. MILLING BIT. CONCRETE; BIT. CONCRETE PATCHING; SMA OVERLAY; IMPROVEMENTS TO RAMP "G" AT CHURCHMANS ROAD; RUMBLE STRIPS BIT. PAV'T.; GUARDRAIL; REMOVAL OF PAV'T. STRIPING; PAV'T. MARKINGS, RPM'S; SIGNING

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 1**

817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	250.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	633,488.00	L.F.
817005	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	40.00	L.F.
817006	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	899.00	L.F.
817009	TEMPORARY MARKINGS, TAPE, 4"	478.00	L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	61,724.00	L.F.
817014	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	13,963.00	L.F.
817018	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"	608.00	L.F.
817020	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 5"	22,722.00	L.F.
817021	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 10"	3,348.00	L.F.
817022	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 8"	610.00	L.F.
817023	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 13"	6.00	L.F.
817027	RAISED/RECESSED PAVEMENT MARKER	2,375.00	EACH
817030	REMOVAL OF RAISED/RECESSED PAVEMENT MARKER HOUSING	2,375.00	EACH
817031	REMOVAL OF PAVEMENT STRIPING	95,772.00	S.F.
817032	REMOVAL OF PAVEMENT MARKING TAPE	160.00	S.F.
818501	INSTALLATION OF SIGN OVERLAY OVER 16 S.F.	1.00	EACH
819018	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	12.00	EACH
819019	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS	193.00	S.F.
822002	INSTALLATION OF SIGN ON/OVER HIGHWAY STRUCTURE	60.00	S.F.
830001	CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	8.00	EACH
831514	FURNISH AND INSTALL 2-1/2" SCHEDULE 80 PVC CONDUIT (TRENCH)	10.00	L.F.
831515	FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT (TRENCH)	13.00	L.F.
831516	FURNISH AND INSTALL 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	968.00	L.F.
831545	FURNISH AND INSTALL 4" HDPE SDR-13.5 CONDUIT (BORE)	166.00	L.F.

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019

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LOCATION 1 56(JOHN F KENNEDY MEMORIAL HIGHWAY) FROM CHURCHMANS RD TO  
CHRISTINA RIVER BRIDGE

LENGTH 5793.6384 m 19008.0000 L.F.

**GENERAL IMPROVEMENTS**

PAV'T. MILLING BIT. CONCRETE; BIT. CONCRETE PATCHING; SMA OVERLAY;  
IMPROVEMENTS TO RAMP "G" AT CHURCHMANS ROAD; RUMBLE STRIPS BIT. PAV'T.;  
GUARDRAIL; REMOVAL OF PAV'T. STRIPING; PAV'T. MARKINGS, RPM'S; SIGNING

**COMMENTS:**

Please see attached sheets for comments

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**MATERIAL ESTIMATE FOR LOCATION 1**

831564	FURNISH AND INSTALL 1-1/2" GALVANIZED STEEL CONDUIT (TRENCH)	74.00	L.F.
834004	POLE BASE, TYPE 3C	1.00	EACH
834005	POLE BASE, TYPE 4A	2.00	EACH
846001	FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	1,124.00	L.F.
905001	SILT FENCE	199.00	L.F.
907017	COMPOST FILTER LOGS	220.00	L.F.
908004	TOPSOIL, 6" DEPTH	5,903.00	S.Y.
908014	PERMANENT GRASS SEEDING, DRY GROUND	5,903.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	5,903.00	S.Y.
908023	STABILIZED CONSTRUCTION ENTRANCE	32.00	TON

\*\* DENOTES FIXED PRICE ITEM

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019

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LOCATION 1 56(JOHN F KENNEDY MEMORIAL HIGHWAY) FROM CHURCHMANS RD TO  
CHRISTINA RIVER BRIDGE

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COMMENTS:

CONTRACT COMMENTS

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Item 202000 is utilized for removal of existing asphalt maintenance strip and subgrade preparation for new maintenance strip.

ADA Improvement Locations:

No ADA improvements anticipated

Entrance and Driveway Locations:

No entrance and driveway locations anticipated

Utility Adjustments:

No utility adjustments anticipated

REMEDY OF REPAIR

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The following general improvements will be performed:

Mainline and Shoulder - Bituminous Concrete Patching

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Bituminous Concrete Patching locations will be as directed by Engineer - 6" pavement milling (402000) with 6" Bituminous Concrete, Type B 160 Gyration, PG 76-22 (401013) placed in two lifts. All milling and base paving must occur during the same shift.

Mainline and Shoulder - Stone Matrix Asphalt

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2" Pavement Milling (760010), 2" Overlay w/Stone Matrix Asphalt (401517).

ALL MILLING AND PAVING MUST OCCUR DURING THE SAME SHIFT

ALL STONE MATRIX ASPHALT MUST BE DELIVERED TO A MATERIAL TRANSFER VEHICLE

THE MAINLINE TRAVEL LANES SHALL MEET THE SURFACE REQUIREMENTS, AS SPECIFIED IN ITEM 401580 - RIDE QUALITY OF HOT-MIX PAVEMENT OF THE SPECIAL PROVISIONS

COMPLETION DATE

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All work on this contract must be completed in 175 calendar days.

Restricted Work Hours: "SEE TABLE"

Recommended Traffic Control: "SEE CONSTRUCTION PLAN NOTES"

All lanes must be restored to unrestricted use with all pavement markings at the end of each work shift.

ROAD USER COSTS (RUC) AND LIQUIDATED DAMAGES

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DELAWARE DEPARTMENT OF TRANSPORTATION

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019

LOCATION 1 56(JOHN F KENNEDY MEMORIAL HIGHWAY) FROM CHURCHMANS RD TO CHRISTINA RIVER BRIDGE

A. Failure to reach Substantial Completion and have all work completed within proposed contract time.

All work on this contract shall be completed within 175 calendar days.

The Road User Cost (RUC) for this contract will be up to \$240,000.00 per Calendar Day.

Road User Costs and Liquidated Damages will be assessed for each Calendar Day that the Contractor's work activities impact the travel lanes beyond the original contract time and any approved time extensions.

Liquidated damages only will be assessed for each Calendar Day over the original contract time and approved time extensions if the Contractor's work does not impact any travel lanes. The Engineer will be the sole approving authority as to when the contract is complete.

B. I-95 Temporary Lane and Shoulder Restriction Road User Cost for Failure to Re-open Lanes

The Contractor must maintain all through lanes and shoulders of I-95 fully open to traffic except during allowable temporary closure periods specified in the contract plans.

The Department will assess the Contractor Road User Cost for failure to have appropriate lanes of I-95 fully open to traffic as outlined on the "Restricted Work Hours" table:

Road User Cost for Contractor's Failure to Re-open Lanes of Northbound or Southbound I-95

Time Appropriate Lanes Re-Opened	Road User Cost
Prior to 6:00 am	\$ 0.00
6:00 am - 6:14 am	\$ 15,000.00
6:15 am - 6:29 am	\$ 30,000.00
6:30 am - 6:44 am	\$ 45,000.00
6:45 am - 6:59 am	\$ 60,000.00
7:00 am - 7:14 am	\$ 75,000.00
7:15 am - 7:29 am	\$ 90,000.00
7:30 am - 7:44 am	\$ 105,000.00
7:45 am - 7:59 am	\$ 120,000.00
Not open by 8:30 am	\$ 180,000.00

For every hour, or portion thereof, after 7:59 am, \$60,000.00 will be assessed up to a day total of \$240,000.00.

Official time will be kept by the Engineer or his/her representative.

Example Calculation for Assessment of Road User Cost in 15-minute periods:

Lanes opened at 7:20 am	
6:00 am - 6:14 am =	\$ 15,000.00
6:15 am - 6:29 am =	\$ 30,000.00
6:30 am - 6:44 am =	\$ 45,000.00
6:45 am - 6:59 am =	\$ 60,000.00
7:00 am - 7:14 am =	\$ 75,000.00
7:15 am - 7:20 am =	\$ 90,000.00

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019

LOCATION 1 56(JOHN F KENNEDY MEMORIAL HIGHWAY) FROM CHURCHMANS RD TO CHRISTINA RIVER BRIDGE

Total RUC Cost = \$ 90,000.00

Example Calculation for Assessment of Road User Cost After 5:59 am on Tuesday:

Lanes opened at 9:00 am	
6:00 am - 6:14 am =	\$ 30,000.00
6:30 am - 6:44 am =	\$ 45,000.00
6:45 am - 6:59 am =	\$ 60,000.00
7:00 am - 7:14 am =	\$ 75,000.00
7:15 am - 7:29 am =	\$ 90,000.00
7:30 am - 7:44 am =	\$ 105,000.00
7:45 am - 7:59 am =	\$ 120,000.00
8:00 am - 9:00 am =	\$ 180,000.00
9:01 am - 10:00 am =	\$ 240,000.00
Total RUC Costs =	\$ 240,000.00

Holiday and Major Events

Travel lane and ramp closings on multilane highways and Interstates shall not be permitted during the following holiday/event periods:

- December 24 through December 27 (Christmas Day)
- December 31 through January 3 (New Year's Day)
- Friday prior to Easter through Easter Sunday
- Thursday prior to Memorial Day through the Tuesday following Memorial Day

Dover International Speedway Race Weekends (Thursday prior to the race event through the day after the race event)

- July 3 through July 5 (Independence Day)
- Thursday prior to Labor Day through the Tuesday following Labor Day
- Wednesday prior to Thanksgiving Day through the Monday following Thanksgiving Day
- Firefly Music Festival - Wednesday prior to the event through the Monday following the event

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.

Traffic Control/General Notes

1. All traffic control and related work shall either be performed entirely by the Contractor's own organization, or totally subcontracted.
2. The contractor shall be required to have an American Traffic Safety Services Association (ATSSA) certified Traffic Control Supervisor on-site at all times during active work. The ATSSA Traffic Control Supervisor's sole responsibility will be the maintenance of traffic on this contract. No work will be permitted unless an ATSSA Traffic Control Supervisor is on-site.
3. All vehicles and equipment (including material delivery trucks) within the work zone shall be equipped with flashing lights. Vehicle emergency flashers are not acceptable.

NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019

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LOCATION 1 56(JOHN F KENNEDY MEMORIAL HIGHWAY) FROM CHURCHMANS RD TO  
CHRISTINA RIVER BRIDGE

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Flashing lights shall be a light bar or other high-powered strobe system that is mounted on the vehicle in such a manner as to be clearly visible from all directions around the vehicle. These warning lights shall be visible from a distance of not less than 500 feet under normal atmospheric conditions at night.

4. Access to all DelDOT Maintenance entrances must be maintained at all times.
5. Flaggers are not permitted on Interstate 95.
6. Coordination may be necessary with other contracts
7. Care must be taken to protect drainage inlets from debris (millings, etc.) during construction. Any cleanout required due to the contractor not taking care in protecting the basins will be done at the contractor's expense.
8. If manhole/drainage inlet adjustments are performed prior to paving, care must be taken as to not seal the manhole covers or drainage inlet grates with asphalt, hot-mix or any other debris. If this occurs they will be cleaned and made functional at the contractor's expense.

UNOFFICIAL  
WEBSITE  
COPY

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019

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CONTRACT QUANTITIES SUMMARY SHEET

201000	CLEARING AND GRUBBING	1.00	L.S.
202000	EXCAVATION AND EMBANKMENT	3,154.00	C.Y.
209004	BORROW, TYPE C	214.00	C.Y.
211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	18,150.00	L.F.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	1,284.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	443.00	TON
401015	SUPERPAVE TYPE B, PG 70-22	651.00	TON
401016	SUPERPAVE TYPE B, PG 76-22	1,000.00	TON
401021	SUPERPAVE TYPE BCBC, PG 64-22	1,298.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	382.00	TON
401031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	503.00	TON
401501	BITUMINOUS ASPHALT TACK COAT	285.00	GAL
401517	STONE MATRIX ASPHALT (SMA) WEARING SURFACE	35,079.00	TON
402000	BITUMINOUS CONCRETE PATCHING	17,250.00	SY-IN
501504	INTERFACE JOINT SEALING REPAIR	8,250.00	L.F.
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	64.00	EACH
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	9,999.00	L.F.
708500	GEOTEXTILE, PAVEMENT INTERLAYER, SPECIAL	22,000.00	S.Y.
709001	PERFORATED PIPE UNDERDRAINS, 6"	974.00	L.F.
709011	UNDERDRAIN OUTLET PIPE, 6"	20.00	L.F.
709017	UNDERDRAIN OUTLET	1.00	EACH
720021	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	16,872.00	L.F.
720022	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	50.00	L.F.
720023	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 3-31	130.00	L.F.
721001	GUARDRAIL END TREATMENT, TYPE 1-31, TEST LEVEL 3	6.00	EACH
721006	END ANCHORAGE 31	8.00	EACH
721009	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)	3.00	EACH
721010	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	4.00	EACH

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019

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CONTRACT QUANTITIES SUMMARY SHEET

721013	GUARDRAIL TO BARRIER CONNECTION, EXIT TYPE 27	2.00	EACH
721014	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27	2.00	EACH
724006	PERMANENT IMPACT ATTENUATOR, TYPE 6	4.00	EACH
760006	RUMBLE STRIPS, BITUMINOUS PAVEMENT	61,723.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	603,357.00	SY-IN
760012	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, VARIABLE DEPTH	6,509.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	10,016.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	1,540.00	L.F.
763000	INITIAL EXPENSE/DE-MOBILIZATION	LUMP	SUM
763501	CONSTRUCTION ENGINEERING	1.00	L.S.
801000	MAINTENANCE OF TRAFFIC	LUMP	SUM
802003	ARROW PANELS TYPE C	118.00	EA-DY
803001	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	219.00	EA-DY
804001	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	2,232.00	EA-DY
805001	PLASTIC DRUMS	4,643.00	EA-DY
806001	** TRAFFIC OFFICERS	1,548.00	HOUR
807001	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	1,720.00	L.F.
807004	RELOCATE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	30,100.00	L.F.
807007	REFLECTOR PANELS	36.00	EACH
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	388.00	EA-DY
809001	INSTALL TEMPORARY IMPACT ATTENUATOR	37.00	EACH
809005	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	2.00	EACH
809006	RELOCATE TEMPORARY IMPACT ATTENUATOR	35.00	EACH
810001	TEMPORARY WARNING SIGNS AND PLAQUES	1,500.00	EA-DY
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	250.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	633,488.00	L.F.
817005	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	40.00	L.F.
817006	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	899.00	L.F.

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019

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CONTRACT QUANTITIES SUMMARY SHEET

817009	TEMPORARY MARKINGS, TAPE, 4"	478.00	L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	61,724.00	L.F.
817014	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	13,963.00	L.F.
817018	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"	608.00	L.F.
817020	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 5"	22,722.00	L.F.
817021	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 10"	3,348.00	L.F.
817022	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 8"	610.00	L.F.
817023	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 13"	6.00	L.F.
817027	RAISED/RECESSED PAVEMENT MARKER	2,375.00	EACH
817030	REMOVAL OF RAISED/RECESSED PAVEMENT MARKER HOUSING	2,375.00	EACH
817031	REMOVAL OF PAVEMENT STRIPING	95,772.00	S.F.
817032	REMOVAL OF PAVEMENT MARKING TAPE	160.00	S.F.
818501	INSTALLATION OF SIGN OVERLAY OVER 16 S.F.	1.00	EACH
819018	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	12.00	EACH
819019	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS	193.00	S.F.
822002	INSTALLATION OF SIGN ON/OVER HIGHWAY STRUCTURE	60.00	S.F.
830001	CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	8.00	EACH
831514	FURNISH AND INSTALL 2-1/2" SCHEDULE 80 PVC CONDUIT (TRENCH)	10.00	L.F.
831515	FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT (TRENCH)	13.00	L.F.
831516	FURNISH AND INSTALL 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	968.00	L.F.
831545	FURNISH AND INSTALL 4" HDPE SDR-13.5 CONDUIT (BORE)	166.00	L.F.
831564	FURNISH AND INSTALL 1-1/2" GALVANIZED STEEL CONDUIT (TRENCH)	74.00	L.F.
834004	POLE BASE, TYPE 3C	1.00	EACH
834005	POLE BASE, TYPE 4A	2.00	EACH
846001	FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	1,124.00	L.F.
905001	SILT FENCE	199.00	L.F.
907017	COMPOST FILTER LOGS	220.00	L.F.

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NORTH MAINTENANCE PAVEMENT AND REHABILITATION, NORTH IX, 2019

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CONTRACT QUANTITIES SUMMARY SHEET

908004	TOPSOIL, 6" DEPTH	5,903.00	S.Y.
908014	PERMANENT GRASS SEEDING, DRY GROUND	5,903.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	5,903.00	S.Y.
908023	STABILIZED CONSTRUCTION ENTRANCE	32.00	TON

\*\* DENOTES FIXED PRICE ITEM

UNOFFICIAL  
WEBSITE  
COPY