

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201107805 CENTRAL MAINTENANCE
FEDERAL AID NUMBER- EBHN 2011 (07) PAGE 1 OF 23
CONTRACT TITLE- STRUCTURE MAINTENANCE, CENTRAL DISTRICT, FY 2012, 2013,
2014

PLANS PREPARED BY: *Paul Young*
DESIGN TECHNICIAN

DATE RECOMMENDED: 5/11/11

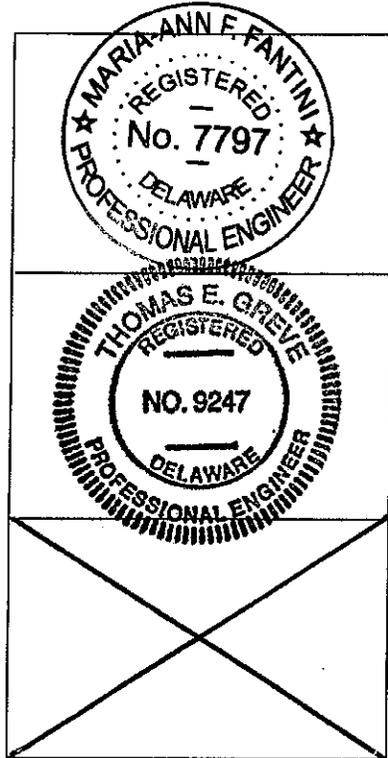
Maria Ann F. Fantini
CENTRAL MAINTENANCE ENGINEER

DATE RECOMMENDED: 5/11/11

Thomas E. Greve
CENTRAL DISTRICT ENGINEER

DATE RECOMMENDED: _____

CHIEF ENGINEER



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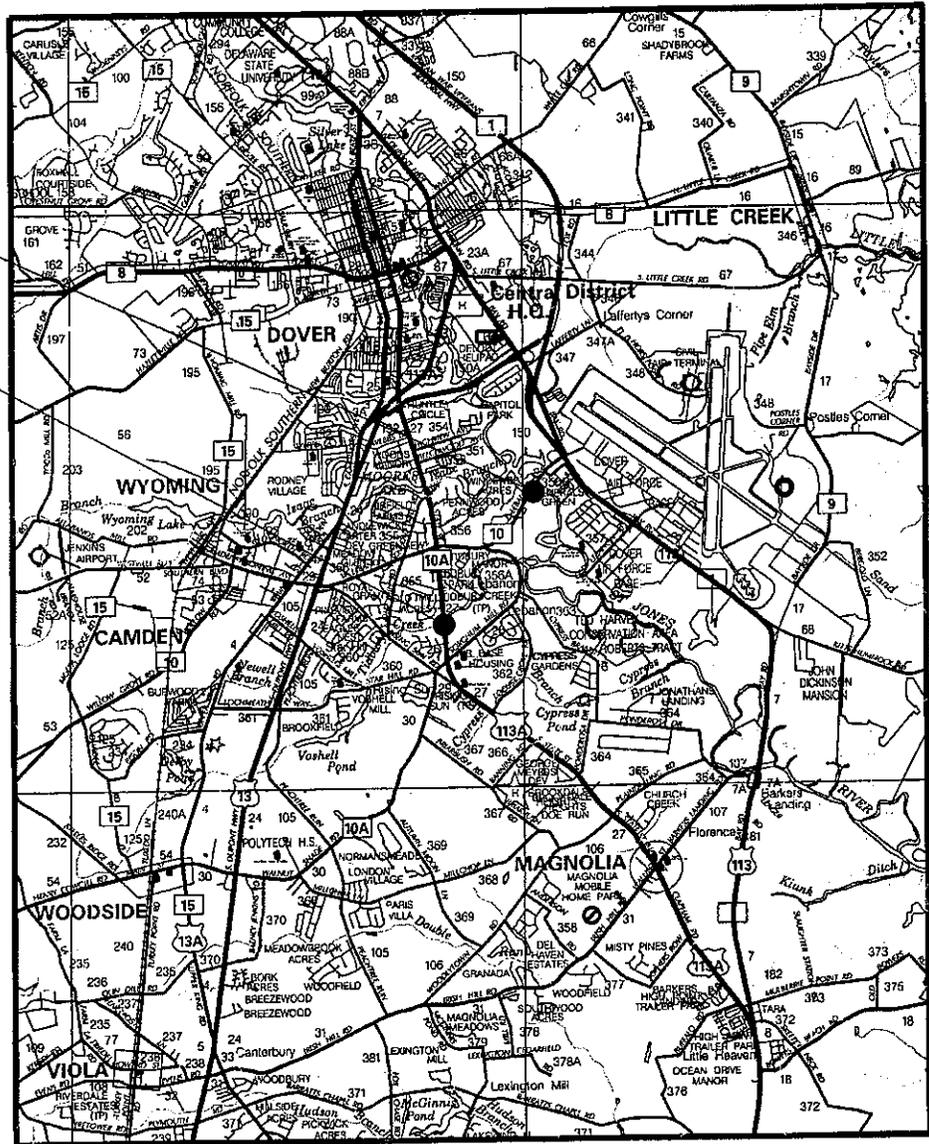
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STRUCTURE MAINTENANCE, CENTRAL DISTRICT, FY 2012, 2013, 2014

LOCATION MAP

LOCATION 3

LOCATION 2



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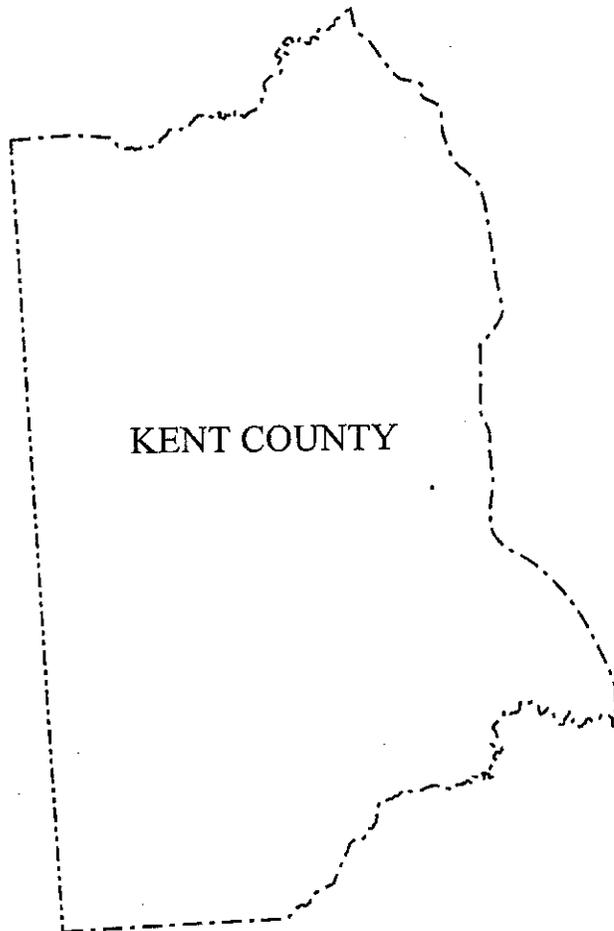
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STRUCTURE MAINTENANCE, CENTRAL DISTRICT, FY 2012, 2013, 2014

LOCATION MAP

LOCATION 4 - Open End Location - Actual Locations to be determined



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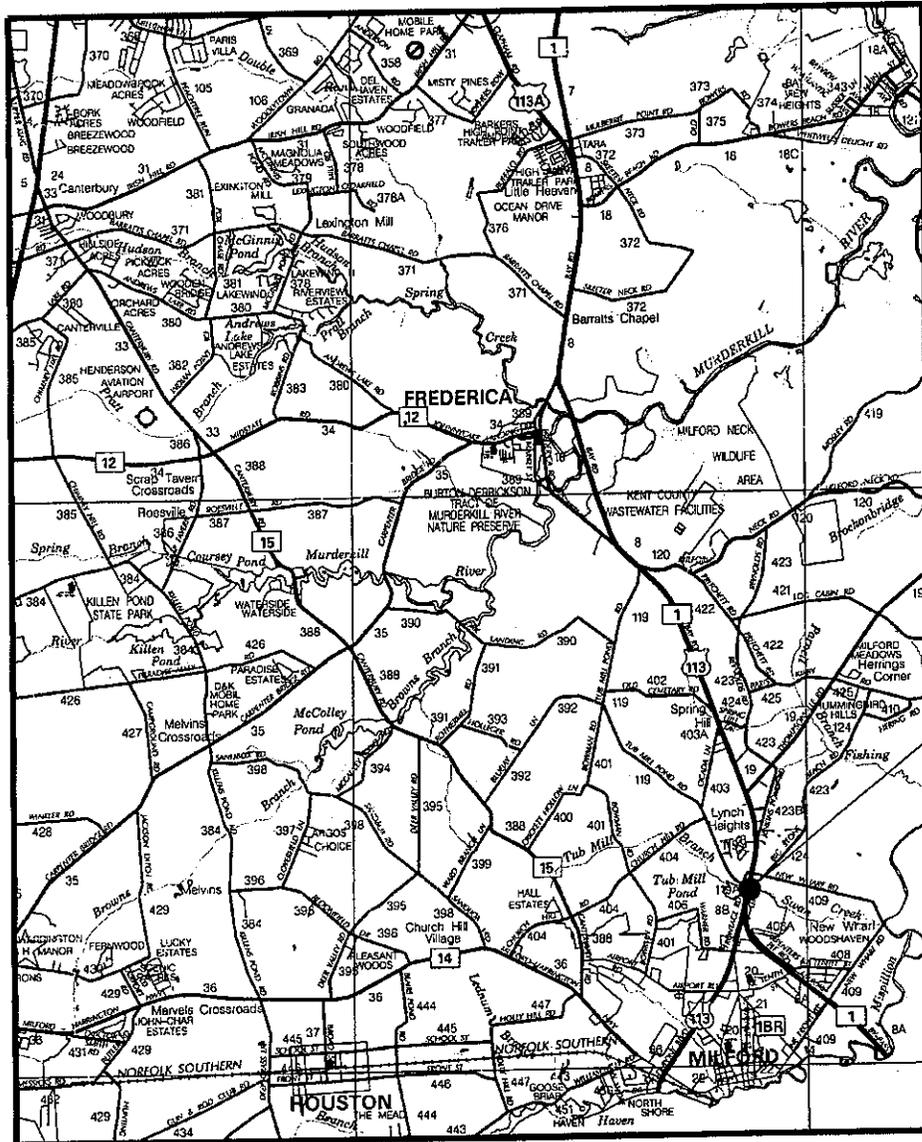
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LOCATION MAP



LOCATION 5

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NOTES

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, AND THESE PLANS.

2. THE PURPOSE OF THIS CONTRACT IS TO MAKE REPAIRS AND OR REHABILITATION OF EXISTING BRIDGE STRUCTURES LOCATED WITHIN THE CENTRAL DISTRICT. 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.

LENGTH OF CONTRACT:

THE PERIOD OF THIS CONTRACT IS FROM THE DATE OF THE "NOTICE TO PROCEED" FOR ONE (1) CALENDAR YEAR. THE DOLLAR VALUE ESTIMATED TO BE UTILIZED IN EACH OF THE THREE YEARS SHALL BE APPROXIMATELY ONE THIRD OF THE ENTIRE CONTRACT AWARD VALUE WITH THE TWO SUBSEQUENT YEARS BEING AN ADDITIONAL ONE THIRD EACH.

CONTRACT EXTENSION: THE DEPARTMENT RESERVES THE RIGHT TO REQUEST TO EXTEND THE CONTRACT FOR TWO ADDITIONAL ONE-YEAR EXTENSIONS AT THE ORIGINAL UNIT BID PRICES SPECIFIED EXCEPT AS NOTED HERIN. THE ONE-YEAR EXTENSIONS MUST BE APPROVED BY BOTH PARTIES IN WRITING, AT LEAST 90 DAYS PRIOR TO EXPIRATION OF THE EXISTING CONTRACT. THE SUCCESSFUL BIDDER MAY EXTEND THE CONTRACT PRICE TO ANY OTHER STATE OR LOCAL AGENCY DURING THE CONTRACT PERIOD IF IT IS AGREEABLE WITH BOTH PARTIES.

PRICE ADJUSTMENT: EXTENSION TO FUTURE YEARS IS DEPENDENT ON LEGISLATIVE APPROPRIATIONS FOR THESE FISCAL YEARS AND AGREEMENT ON SUCCEEDING YEAR'S PRICING AS DESCRIBED HERIN. THE BID PRICES IN THE CONTRACT MUST BE GUARANTEED FOR THE FIRST YEAR OF THE CONTRACT. IN FUTURE YEAR CONTRACT EXTENSIONS, THE VENDOR MAY REQUEST AN INCREASE IN UNIT PRICES. THE VENDOR WILL BE REQUIRED TO REQUEST ANY PRICE INCREASES PRIOR TO THE EXTENSION OF THE CONTRACT. THE BID PRICES IN THE CONTRACT EXTENSION SHALL BE GUARANTEED FOR THE PERIOD OF THE CONTRACT EXTENSION. IF THE DIFFERENCE REQUESTED EXCEEDS THE CHANGE IN THE NATIONWIDE ALL URBAN CONSUMER PRICE INDEX (CPI-U), U.S. CITY AVERAGE FOR THE SAME PERIOD, APPROVAL OF ANY PRICE ADJUSTMENT OFFERED THE VENDOR ABOVE THE CPI-U WILL BE AT THE DISCRETION OF THE DISTRICT ENGINEER. THE DEPARTMENT RETAINS THE RIGHT TO CANCEL THE FUTURE YEAR EXTENSION IF ANY ACCEPTABLE AGREEMENT CANNOT BE REACHED WITH THE VENDOR ON THE PRICE ADJUSTMENT. THIS CONTRACT MAY BE EXTENDED FOR SUCH PERIOD, QUANTITIES, AND TIME AS IS MUTUALLY AGREEABLE BETWEEN BOTH PARTIES.

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~~THE CPI-U IS CALCULATED AS FOLLOWS:~~

~~CURRENT CPI-U - CPI-U AT PURCHASE ORDER DATE = CPI-U DIFFERENCE~~

~~DIVIDE THE CPI-U DIFFERENCE BY CPI-U AT PURCHASE ORDER DATE = CPI-U FACTOR~~

~~MOVE THE FACTOR DECIMAL POINT OVER TWO (2) SPACES GIVES YOU THE % INCREASE FOR THE TIME PERIOD AND MAXIMUM ALLOWABLE PERCENTAGE INCREASE FOR THAT PURCHASE.~~

~~EXAMPLE: 173.2 - 165.4 = 7.8 (DIFFERENCE)
7.8 / 165.4 = .047158403 (FACTOR)
4.71% CPI-U FOR THAT PERIOD~~

3. THE DEPARTMENT RESERVES THE RIGHT TO TERMINATE THE CONTRACT FOR FAILURE TO MEET THE PROVISIONS OF THE CONTRACT.

4. THE LOCATION LISTING IS A SUMMARY OF ALL IMPROVEMENTS, AND ESTIMATED QUANTITIES. ACTUAL LOCATION WORK WITH APPLICABLE QUANTITIES IS DESCRIBED IN THE PROJECT NOTES SECTION LISTED BELOW. DURING THE BIDDING PERIOD, ANY QUESTIONS PERTAINING TO LOCATIONS SHALL BE DIRECTED TO THE CONTRACT ADMINISTRATOR. AFTER THE AWARD, SUCH QUESTIONS SHALL BE REFERRED TO THE APPROPRIATE DISTRICT ENGINEER OR HIS REPRESENTATIVE.

5. PERFORMANCE AND PROGRESS OF WORK:

WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL BE GENERATED THROUGH WORK ORDERS ISSUED TO THE CONTRACTOR BY THE DEPARTMENT'S CENTRAL DISTRICT. WORK ORDERS WILL BE ISSUED AS A GROUP TO ALLOW THE MOST EFFICIENT ALLOCATION OF THE CONTRACTOR'S WORK FORCE AS THE SITUATION ALLOWS.

EXECUTION OF EACH WORK ORDER GROUP IS TO BEGIN WITHIN FOUR (4) DAYS OF IT'S BEING ISSUED TO THE CONTRACTOR, UNLESS REQUIRED MATERIALS ARE NOT AVAILABLE, AND WORK WILL BE COMPLETED WITHIN THE TIME FRAME ALLOCATED ON THE WORK ORDER. NON-AVAILABILITY OF MATERIAL SHALL BE VERIFIED BY AT LEAST THREE (3) INDEPENDENT SOURCES, WITH THE VERIFICATION FORMALLY PRESENTED IN WRITING BY THE CONTRACTOR TO THE DEPARTMENT WITHIN FOUR (4) WORKING DAYS.

IF WORK DOES NOT COMMENCE, OR NON-AVAILABILITY OF MATERIALS IS NOT PRESENTED IN THE ALLOTTED TIME, TIME CHARGES EQUAL TO LIQUIDATED DAMAGES FOR THE WORK ORDER GROUP SHALL COMMENCE. IF THEIR IS A VERIFIED NON-AVAILABILITY OF MATERIALS, TIME CHARGES SHALL COMMENCE ON THE FOURTH (4) WORKING DAY FOLLOWING THE DELIVERY DATE.

THE DEPARTMENT WILL ATTEMPT TO ASSIGN WORK-ORDERS IN A MANNER THAT WILL KEEP THE DISTANCE BETWEEN JOB ORDER LOCATIONS TO A MINIMUM AND IN A LOGICAL CONSTRUCTION SEQUENCE.

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FAILURE TO COMPLETE A WORK GROUP IN THE SPECIFIED TIME SHALL CONSTITUTE "FAILURE TO PURSUE THE WORK" AND SUBJECTS THE CONTRACTOR TO LIQUIDATED DAMAGES AS OUTLINED IN SUBSECTION 108.08 OF THE STANDARD SPECIFICATIONS. EACH WORK ORDER OR GROUP OF WORK ORDERS IS TO BE COMPLETED WITHIN THE SPECIFIED TIME. ADDITIONAL ITEMS AND/OR WORKING DAYS MAY BE ADDED TO ANY WORK ORDER AS NEEDED AT THE DISCRETION OF THE ENGINEER. IF THE WORK ON A SPECIFIC WORK ORDER GROUP IS NOT COMPLETED WITHIN THE ALLOCATED TIME, LIQUIDATED DAMAGES WILL BE ASSESSED IN ACCORDANCE WITH SUBSECTION 108.09 OF THE STANDARD SPECIFICATIONS BASED ON THE TOTAL VALUE OF THAT PARTICULAR WORK ORDER OR WORK ORDER GROUP, WHICHEVER IS APPLICABLE.

A SEMI-FINAL INSPECTION WILL BE PERFORMED ON EACH WORK ORDER OR WORK ORDER GROUP AFTER THE DEPARTMENT RECEIVES COPIES OF THE COMPLETED WORK ORDERS FROM THE CONTRACTOR. ALL WORK MUST MEET THE DEPARTMENT'S SPECIFICATIONS, THE REQUIREMENTS AS OUTLINED IN THESE NOTES, AND THOSE WORK ORDERS PERTAINING TO GUARDRAIL END TREATMENTS MUST MEET THE MANUFACTURER'S SPECIFICATIONS BEFORE THEY CAN BE CONSIDERED COMPLETE. IF ALL THE WORK ORDERS ARE SATISFACTORILY COMPLETED, THE WORK WILL BE ACCEPTED BY THE DEPARTMENT, AT WHICH TIME THE WORK ORDER OR WORK ORDER GROUP WILL BE CONSIDERED CLOSED. UPON CLOSURE, THE DEPARTMENT WILL PROCESS THE CONTRACTOR'S INVOICES FOR THE SPECIFIC WORK ORDERS.

5. PAYMENTS SHALL BE ISSUED ON A MONTHLY BASIS FOR THE AMOUNT OF WORK COMPLETED, INVOICED AND ACCEPTED BY THE DEPARTMENT.

6. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS WHO LIVE ADJACENT TO THE WORK ZONE WITH 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.

8. 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.

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MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

9. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION A MINIMUM OF TWO WEEKS PRIOR OF THE START OF WORK AT EACH LOCATION. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE FINAL PAVEMENT MARKINGS SHALL BE PLACED WITHIN FIVE (5) CALENDAR DAYS AFTER THE PLACEMENT OF THE FINAL COURSE OF HOT-MIX. FAILURE TO COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. THE DEPARTMENT WILL PROVIDE STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXISTED. IF DEPARTMENT FORCES PROVIDE STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR THE LAYOUT COSTS. 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. 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.

10. ANY ERRONEOUS MARKING WILL NOT BE PAID FOR AND SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTORS EXPENSE. ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN WIDTH SHALL BE REMOVED BY EITHER SAND OR WATER BLASTING. NO OTHER REMOVAL METHODS WILL BE ALLOWED. A FLAT BLACK PAINT OR DRIVEWAY SEALER SHALL BE APPLIED IN THE AREA OF THE REMOVED MARKING TO MASK THE REPAIR. ANY DAMAGE TO THE PAVEMENT CAUSED BY REMOVAL OF ERRONEOUS MARKINGS SHALL BE REPAIRED / REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

11. 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 PER THE LATEST VERSION OF THE PERMANENT MARKING SECTION OF THE TRAFFIC CONTROL MANUAL. TEMPORARY PAVMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE.

12. INTERNATIONAL CROSSWALK SYMBOLS WILL BE PLACED AT ALL EXISTING CROSSWALK LOCATIONS OR OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE STRIPING ITEMS.

13. 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 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.

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14. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING THE NECESSARY NCHRP 350 CERTIFICATIONS FOR ALL DEVICES THAT WILL BE UTILIZED, FOR EACH LOCATION BEFORE THE START OF THE PRE-CONSTRUCTION MEETING. WRITTEN APPROVAL MUST BE RECEIVED BEFORE THE START OF WORK AT EACH AND EVERY LOCATION.

15. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION AND SHALL BE IN COMPLIANCE WITH THE TRAFFIC CONTROL MANUAL AND WITH NCHRP REPORT 350 AS DEFINED IN SECTION "A" OF THE MANUAL. THE DEVICES SHALL BE APPROVED BY THE DISTRICT SAFETY OFFICER PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

16. THE SPECIAL PROVISION FOR ITEM 720567 FURNISHING PORTABLE PCC BARRIER IS HEREBY MODIFIED TO INCLUDE ALL REFLECTORS AND WARNING LIGHTS PAYABLE UNDER SECTION 720567 AND NOT AS SEPARATE PAY ITEMS.

PROJECT

17. ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

18. 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 THIS PURPOSE.

19. ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, IS TO BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF EACH DAY'S MILLING OPERATION. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

20. WHEN CLEANING AFTER A ROTOMILLING OPERATION, THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC. SO AS TO NOT DISTURB THE EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTH. ANY DAMAGE CAUSED BY CONTRACTORS OPERATION MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER ROTOMILLING OPERATIONS SHALL BE INCIDENTAL TO THE ROTOMILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE ROTOMILLING ITEMS.

21. 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.

22. THE CONTRACTOR IS REMINDED THAT SECTION 105.07 OF THE STANDARD SPECIFICATIONS REQUIRES THE GENERAL CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT OR FOREMAN ON THE PROJECT AT ALL TIMES.

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NOTES

23. NO WORK SHALL BE PERFORMED ALONG S.R. 1 FROM FRIDAY THROUGH SUNDAY (INCLUSIVE - SOUTHBOUND) AND SATURDAY THROUGH MONDAY (INCLUSIVE-NORTHBOUND)

24. NO STEEL PLATES WILL BE ALLOWED ON THIS PROJECT.

25. ITEM 763606 MAINTENANCE OF TRAFFIC TWO LANE TWO WAY WITH LANE CLOSURE SHALL ONLY BE PAID ONE TIME PER ROADWAY LOCATION REGARDLESS OF WHETHER OR NOT BOTH LANES WILL HAVE TO BE SEQUENCED FOR CLOSURE.

26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PLACEMENT OF ALL REMEDIAL DEVICES REQUIRED TO INSURE NO DEBRIS FROM CONSTRUCTION ARE ENTERED INTO STREAMS OR BODIES OF WATER AND/OR ONTO A ROADWAY LOCATED BENEATH THE STRUCTURE.

27. UNDER ITEMS 602572-REPAIRING EXISTING PCC STRUCTURES AND ITEM 602586 REHABILITATION OF CONCRETE STRUCTURE, SAWCUTS (AS SHOWN IN THE INCLUDED DETAIL) MAY BE NECESSARY TO PROPERLY PREPARE THE SURFACE TO BE REPAIRED OR REHABILITATED. PAYMENT FOR THE SAWCUTTING SHALL BE INCIDENTAL TO THE PRICES BID FOR THE RESPECTIVE REPAIR OR REHABILITATION ITEMS.

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STRUCTURE MAINTENANCE, CENTRAL DISTRICT, FY 2012, 2013, 2014

LOCATION 1 207(BRIDGE 2-207A (MUDMILL RD OVER MUDMILL POND)) FROM TO

COMMENTS:

Description of Work:

1. Replace hot mix wearing surface. Record bridge deck grades along centerline, curb line, and any break lines. Mill 2" of existing hot mix wearing course on the bridge deck (760006). Care shall be taken not to damage the prestressed concrete beams beneath the hot mix. According to contract plans the concrete beams "step" down. Check deck surface for any areas that require patching. Place waterproofing membrane, membrane shall extend over the center pier joint(602616). Place hot mix to recorded grades (401665).
2. Saw cut hot mix over the pier joint, abutments joints and seal (762001 and 503501).
3. Place double yellow centerline (748506).
4. Patch spalls in the concrete beams and substructure. Use (602572) for shallow spall repairs, less than 1 1/2" deep, use (602586) for deep spall repairs, 1 1/2" to 3 1/2" deep, and use (602001 & 602580) for spall repair deeper than 3 1/2".
5. Repair cracks 1/8" and larger or cracks with rust staining by epoxy injection (602611).
6. Repair erosion along the wingwalls with riprap as directed by the Engineer (302011 and/or 712020).
7. Seal joint in concrete curb at pier with silicone (605692)
8. Two state rare fish and 1 state rare mussel are located within the waters of Mudmill Pond and the streams that feed into the pond. In order to protect the spawning of the fish species and in order to protect the mussels species from sedimentation, great care should be taken to minimize sedimentation at the work site. Also, all in-stream work should be avoided from April 15 to June 30th of any calendar year.
9. Place R-7 riprap along the entire face of each abutment 15' from the face. No excavation is necessary. Permit is necessary for this work which shall be obtained by DelDOT.
10. Items 602001, 602572, 602580, 602586, and 602611 as directed by engineer as per field conditions.

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LOCATION 2 27(BRIDGE 2-027A (SOUTH STATE ST OVER TIDBURY BRANCH, DOVER)) FROM TO

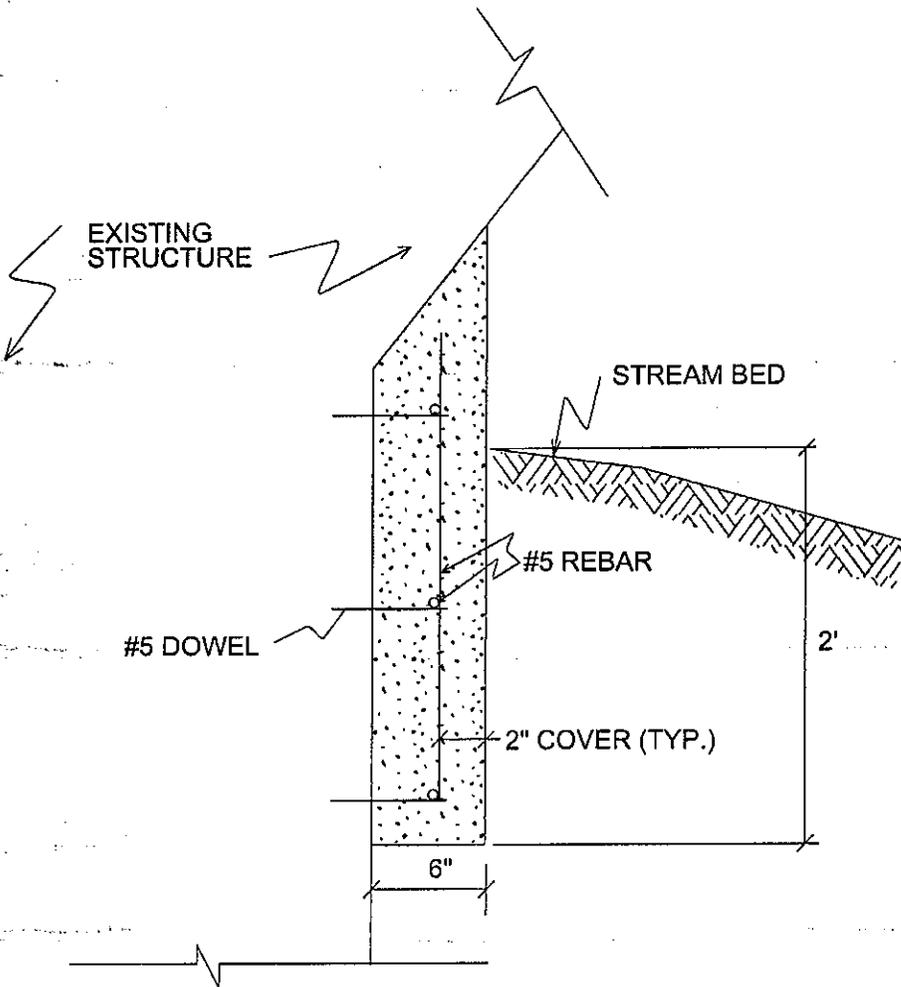
COMMENTS:

Description of Work:

1. Construct temporary stream diversion and dewater work area (265500).
2. Environmental permit is required for the dewatering and abutment repair. Permit will be requested by DelDOT.
3. Pour apron wall along abutment footing as directed by the Engineer. To provide an unbroken appearance, the wall shall extend vertically from the underside of the arch to a depth that is 2" below the stream bed. Install #5 dowel bars on an 18" grid (602579), place rebar, #5 each way, (603000) and pour Class 'A' concrete (602001). See Sketches 'A' and 'B'.
4. Patch spalls/delaminations in the parapet. Use (602572) for shallow spall repairs, less than 1 1/2" deep, use (602586) for deep spall repairs, 1 1/2" to 3 1/2" deep, and use (602001 & 602580) for spall repair deeper than 3 1/2".
5. According to DNREC Fisheries, this stream is also a river herring spawning run location so a seasonal closure (March 15 to June 30) is needed for work done in the water (i.e. the stream diversion and dewatering to allow passage of river herring.

SKETCH 'B'

BR 2-027A



SECTION
N.T.S.

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STRUCTURE MAINTENANCE, CENTRAL DISTRICT, FY 2012, 2013, 2014

LOCATION 3 356(BRIDGE 2-356B (SR10 WESTBOUND OVER ST. JONES RIVER, DOVER)) FROM TO

COMMENTS:

Description of Work:

1. Epoxy inject any cracks 1/8" and wider or cracks showing rust staining on the substructure (602611).
2. Patch spalls/delaminations. Use (602572) for shallow spall repairs, less than 1 1/2" deep, use (602586) for deep spall repairs, 1 1/2" to 3 1/2" deep, and use (602001 & 602580) for spall repair deeper than 3 1/2".
3. Clean and paint abutment and backwall (602646).
4. Replace silicone joint seals as directed by the Engineer (605692).
5. Reseal between abutment and concrete slope paving as directed by the engineer (503502).
6. Repair metal bridge rail (606509).
7. Seal cracks in the concrete bridge deck (602629).
8. Substructure concrete repairs are located on both abutments and piers.

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LOCATION 4 356(OPEN-END STRUCTURE MAINTENANCE) FROM TO

LENGTH m L.F.
GENERAL IMPROVEMENTS
ADDED ITEM 720567

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 4

503502	CRACK AND JOINT SEALING 3/4" TO 1 3/4" WIDE	120.00 L.F.
602001	PORTLAND CEMENT CONCRETE MASONRY, CLASS A	28.00 C.Y.
602572	REPAIRING EXISTING P.C.C. STRUCTURES	50.00 LB
602580	PARTIAL REMOVAL OF P.C.C. MASONRY	1.00 C.Y.
602586	REHABILITATION OF CONCRETE STRUCTURE	50.00 C.F.
602611	REPAIR OF CONCRETE STRUCTURES BY EPOXY INJECTION	500.00 L.F.
602629	CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALK, ETC.	1,000.00 L.F.
602646	SILICONE ACRYLIC CONCRETE SEALER	600.00 S.F.
602734	BRIDGE DECK PATCHING, POLYESTER POLYMER CONCRETE	25.00 SY-IN
605692	SILICONE JOINT SEAL	100.00 L.F.
720567	FURNISH AND MAINTAIN PORTABLE P.C.C. SAFETY BARRIER	100.00 L.F.

CONTRACT

602001 PORTLAND CEMENT

602572

602580 PARTIAL REMOVAL

602734 BRIDGE DECK PATCHING

605692

720567 FURNISH AND MAINTAIN