

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201603201 CENTRAL MAINTENANCE
FEDERAL AID NUMBER- NONE PAGE 1 OF 19
CONTRACT TITLE- CTF PROJECTS CENTRAL, FY2016, 2017, & 2018, OPEN END

PLANS PREPARED BY: Matthew J. Schutte
CENTRAL DISTRICT DESIGN ENGINEER

DATE RECOMMENDED: _____

CENTRAL DISTRICT CONTRACTS ENGINEER

DATE RECOMMENDED: 4/6/16
S. Taavoni
CENTRAL DISTRICT MAINTENANCE ENGINEER

DATE APPROVED: 4/6/16
[Signature]
CENTRAL DISTRICT ENGINEER

Professional Engineer stamps for SHAHIN TAAYONI (No. 13183) and THOMAS E. GREVE (No. 9247), Delaware. The top section of the stamp area is crossed out with a large 'X'.

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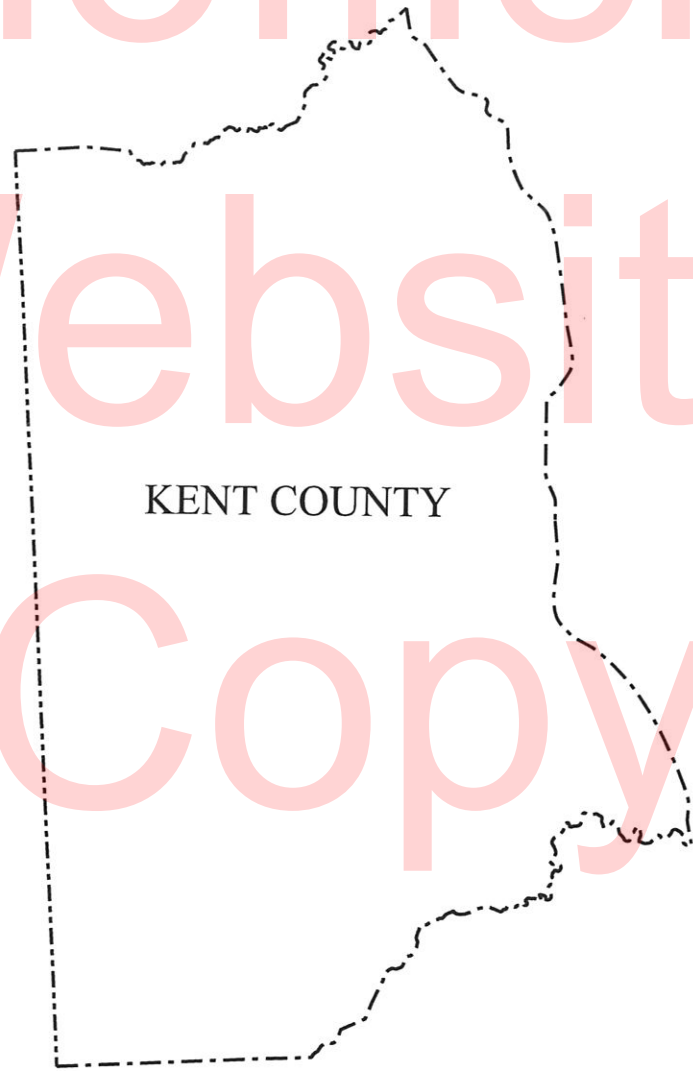
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LOCATION MAP

LOCATION 1- Open End Location - Actual Locations to be determined



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NOTES

THE NOTES CONTAIN FIVE SECTION HEADINGS: GENERAL, MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS, PROJECT SPECIFICS, PROJECT TIMING, AND PAY ITEMS' PARAMETERS.

GENERAL

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO THE 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. THIS IS WORK-ORDER DRIVEN CONTRACT WITH NO KNOWN LOCATIONS. THEREFORE, THIS CONTRACT ENTIRELY IDENTIFIES OPEN-END LOCATIONS FOR THE GENERAL PURPOSE TO IMPROVE ROADS AND/OR STREETS, DRAINAGE, SIDEWALKS, AND CURBS LOCATED WITHIN THE BOUNDARIES OF KENT COUNTY. THE WORK SHALL BE AS THE ENGINEER OR REPRESENTATIVE REQUIRES OR DIRECTS VIA INDIVIDUAL WORK-ORDERS. SUBSECTION 104.05 WILL NOT APPLY TO THIS CONTRACT.

DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO PRIORITIZE, SUBSTITUTE, ADD, OR DELETE LOCATIONS AND/OR QUANTITIES AT ANY TIME DURING THIS CONTRACT. SUCH LOCATION OR QUANTITY ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. THE CONTRACTOR CANNOT RENEGOTIATE ANY ITEM PRICES DUE TO EITHER AN INCREASE OR DECREASE IN QUANTITY USAGE RESULTING FROM ADDITION OR DELETION OF LOCATIONS DURING THE FIRST TWO YEARS.

THE LENGTH OF THIS CONTRACT IS THREE CALENDAR YEARS (1095 CALENDAR DAYS) FROM THE DATE OF THE "NOTICE TO PROCEED."

3. PERFORMANCE AND PROGRESS OF WORK:

THE DEPARTMENT'S CENTRAL DISTRICT WILL GENERATE THE WORK AND ISSUE THE WORK-ORDERS THAT THE CONTRACTOR IS TO PERFORM UNDER THIS CONTRACT.

EXECUTION OF EACH WORK-ORDER IS TO BEGIN WITHIN TWENTY-ONE (21) CALENDAR DAYS OF THE DISTRICT'S ISSUANCE TO THE CONTRACTOR. IN ADDITION, THE CONTRACTOR MUST COMPLETE THE WORK WITHIN THE TIME FRAME THAT THE WORK-ORDER ALLOCATES, UNLESS THE NECESSARY MATERIALS ARE NOT AVAILABLE. THE CONTRACTOR SHALL VERIFY THE MATERIAL'S NON-AVAILABILITY BY AT LEAST THREE (3) INDEPENDENT SOURCES. AFTER WHICH, THE CONTRACTOR SHALL PROVIDE THE DEPARTMENT WITH THE VERIFICATION FORMALLY PRESENTED IN WRITING WITHIN FOUR (4) DAYS OF THE WORK-ORDER ISSUANCE.

IF THE CONTRACTOR DOES NOT COMMENCE THE WORK OR DOES NOT PRESENT THE NON-AVAILABILITY OF MATERIALS WITHIN THE ALLOTTED TIME, TIME CHARGES EQUAL TO LIQUIDATED DAMAGES FOR THE WORK-ORDER SHALL COMMENCE. IF THE CONTRACTOR VERIFIES WITH THE DEPARTMENT THAT NON-AVAILABILITY OF MATERIALS IS THE SITUATION, TIME CHARGES SHALL COMMENCE ON THE FIFTEENTH (15) CALENDAR DAY FOLLOWING THE DELIVERY DATE.

SHOULD THE CONTRACTOR FAIL TO COMPLETE A WORK-ORDER IN THE SPECIFIED TIME, THIS SHALL CONSTITUTE THE "FAILURE TO PURSUE THE WORK" AND SUBJECTS THE CONTRACTOR TO LIQUIDATED DAMAGES AS OUTLINED IN SUBSECTION 108.08 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR

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IS TO COMPLETE EACH WORK-ORDER (OR GROUP OF WORK-ORDERS) WITHIN THE SPECIFIED TIME. AT THE DISCRETION OF THE ENGINEER, THE DISTRICT MAY ADD ADDITIONAL ITEMS AND/OR DAYS TO ANY WORK-ORDER AS NECESSARY. IF THE CONTRACTOR DOES NOT COMPLETE THE WORK ON A SPECIFIC WORK-ORDER ON TIME, THE DISTRICT WILL ASSESS LIQUIDATED DAMAGES IN ACCORDANCE WITH SUBSECTION 108.09 OF THE STANDARD SPECIFICATIONS, WHICH BASES THIS AMOUNT ON THE TOTAL VALUE OF THAT PARTICULAR WORK-ORDER OR WORK-ORDER GROUP, WHICHEVER IS APPLICABLE.

THE DISTRICT WILL PERFORM A SEMI-FINAL INSPECTION FOR EACH WORK-ORDER OR WORK-ORDER GROUP AFTER THE CONTRACTOR PROVIDES THE DEPARTMENT WITH COPIES OF THE COMPLETE WORK-ORDERS. THE CONTRACTOR'S WORK MUST MEET THE DEPARTMENT'S SPECIFICATIONS AND THE REQUIREMENTS AS THESE NOTES DEFINE. THE CONTRACTOR MUST COMPLETE ANY PUNCHLIST WORK WITHIN THIRTY (30) CALENDAR DAYS OF THE EACH SEMI-FINAL INSPECTION, UNLESS THE ENGINEER APPROVES OTHERWISE.

THE CONTRACTOR'S WORK IS SUBJECT TO A FINAL INSPECTION UPON CONTRACT COMPLETION. THE CONTRACTOR WILL HAVE FORTY-FIVE (45) DAYS TO COMPLETE ALL PUNCHLIST WORK FROM THE FINAL INSPECTION DATE, UNLESS THE ENGINEER APPROVES OTHERWISE.

4. THIS CONTRACT INDICATES THE GENERAL LIMITS OF CONSTRUCTION, MAJOR TYPES OF IMPROVEMENTS, AND ESTIMATED QUANTITIES. DURING THE BIDDING PERIOD, THE CONTRACTOR SHALL ADDRESS ANY QUESTIONS PERTAINING TO THIS CONTRACT TO THE CONTRACT ADMINISTRATOR. AFTER THE AWARD, THE CONTRACTOR SHALL REFER SUCH QUESTIONS TO THE APPROPRIATE DISTRICT ENGINEER OR REPRESENTATIVE.

5. WHEN THE DISTRICT ADDS SPECIFIC LOCATIONS TO THE CONTRACT, THE CONTRACTOR SHALL SUBMIT THE NECESSARY COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) PER STANDARD SPECIFICATION 108.04 WITHIN 14 CALENDAR DAYS. THE PSC SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE DAYS THE CONTRACTOR PLANS TO WORK, INDICATE MULTIPLE CREWS OR SHIFTS, AND WORKING HOURS DURATION. DURING EACH WORK-ORDER, THE CONTRACTOR SHALL SUBMIT TWO-WEEK (OR AS THE DISTRICT REQUIRES) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/REPRESENTATIVE NO LATER THAN NOON OF EACH TUESDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF CURRENT AND FUTURE CONTRACT WORK; HOWEVER, THE CONTRACTOR WILL CONTINUE TO INCUR TIME CHARGES.

6. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS WHO LIVE ADJACENT TO THE WORK ZONE WITH A MINIMUM 48-HOUR PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, LOCATION LIMITS, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT COMMUNITY RELATIONS' CONTACT NUMBER 1-800-652-5600. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL THE CONTRACTOR PROVIDES THE PROPER NOTICE. THE CONTRACTOR WILL RECEIVE THE REQUIRED NOTICE AT THE PRECONSTRUCTION MEETING. CONTRACTOR CANNOT PLACE THE NOTICES IN MAILBOXES. IF THE CONTRACTOR PLACES A SINGLE NOTIFICATION AT A SUBDIVISION ENTRANCE, THE SIGN MUST BE CLEAR TO INDICATE IF THE WORK DOES NOT INCLUDE THE ENTIRE DEVELOPMENT.

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MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

7. THE CONTRACTOR SHALL SUBMIT, A MINIMUM OF TWO WEEKS PRIOR OF THE START OF WORK AT EACH LOCATION, DRAWINGS IN DETAIL (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. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS THE ENGINEER DIRECTS OTHERWISE. THE CONTRACTOR SHALL PLACE THE FINAL PAVEMENT MARKINGS WITHIN FIVE (5) CALENDAR DAYS AFTER THE PLACEMENT OF THE FINAL COURSE OF BITUMINOUS PAVEMENT. FAILURE TO COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK; HOWEVER, THE CONTRACTOR WILL CONTINUE TO INCUR TIME CHARGES. THE DEPARTMENT WILL PROVIDE THE STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXIST. IF THE DEPARTMENT FORCES PROVIDE THE STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR THE LAYOUT COSTS. UNLESS THE ENGINEER DIRECTS OTHERWISE, 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 DISTRICT SHALL REQUIRE THE CONTRACTOR TO SHOW PROOF THAT THERE IS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE THE CONTRACTOR COMPLETES THE STRIPING PRIOR TO OPENING THE ROADWAY FULLY TO TRAFFIC.

8. THE CONTRACTOR SHALL SUBMIT THE NECESSARY NCHRP 350 AND/OR MASH CERTIFICATIONS FOR ALL DEVICES. THE SUBMITTAL MUST CONTAIN THE CLEAR IDENTIFICATION OF ALL APPLICABLE DEVICES AND INFORMATION AS TO EXACTLY WHAT THE CONTRACTOR WILL USE. THE CONTRACTOR MUST SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN FOR EACH WORK ORDER LOCATION. THE CONTRACTOR MUST RECEIVE WRITTEN APPROVAL BEFORE THE START OF WORK AT EACH LOCATION. THE ENGINEER AND DISTRICT SAFETY OFFICER WILL DETERMINE THE TIME RESTRICTIONS FOR EACH LOCATION. TRAFFIC SAFETY OFFICER REQUIRES A TWO-WEEK LEAD TIME PRIOR TO THE START OF WORK AT EACH LOCATION FOR TEMPORARY TRAFFIC CONTROL PLAN AND TIME RESTRICTION REVIEW.

9. THE CONTRACTOR SHALL PERFORM ALL WORK IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICABLE OBSTRUCTION TO ALL ROAD USERS, TO INCLUDE VEHICULAR, PEDESTRIAN, AND BICYCLE TRAFFIC, AND SHALL CONFORM TO THE REQUIREMENTS OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, THAT INCLUDES ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.

10. THE DEPARTMENT WILL NOT PAY FOR ANY ERRONEOUS MARKINGS. THE CONTRACTOR SHALL IMMEDIATELY CORRECT APPLICABLE MARKINGS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL REMOVE ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN WIDTH BY SAND-OR WATER-BLASTING. THE ENGINEER SHALL APPROVE ANY STRIPING REMOVAL OR CORRECTION METHODS. THE CONTRACTOR SHALL APPLY A FLAT BLACK PAINT OR DRIVEWAY SEALER 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 OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

11. PER THE LATEST VERSION OF THE PERMANENT MARKING SECTION OF THE TRAFFIC CONTROL MANUAL, THE CONTRACTOR SHALL UTILIZE TEMPORARY STRIPING AT LOCATIONS THAT REQUIRE PERMANENT STRIPING, AT THE END OF EACH DAY'S OPERATION, AND PRIOR TO THE REMOVING THE

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ROAD RESTRICTIONS. CONTRACTOR WILL RECEIVE PAYMENT FOR TEMPORARY PAVMENT MARKINGS AT THE APPLICABLE CONTRACT UNIT PRICE.

12. THE CONTRACTOR SHALL PLACE INTERNATIONAL CROSSWALK SYMBOLS AT ALL EXISTING CROSSWALK LOCATIONS OR OTHER LOCATIONS AS THE ENGINEER DIRECTS. PAYMENT WILL BE PER THE APPLICABLE STRIPING ITEMS.

13. 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 *AMERICAN WITH DISABILITIES ACT OF 1990* (ADA) TITLE II, PARAGRAPH 35.130 AND ANY REVISIONS.

THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE FOLLOWING CONSIDERATIONS WHEN ADDRESSING ACCESSIBLE PEDESTRIAN MAINTENANCE OF TRAFFIC:

- PROVIDE ALL PEDESTRIANS, INCLUDING PERSONS WITH DISABILITIES, 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 THE ENGINEER CHOOSES A DETOUR, THE CONTRACTOR MUST SUBMIT THE DETOUR ROUTE TO THE ENGINEER FOR REVIEW AND APPROVAL. THE DETOUR ROUTE MUST MEET OR EXCEED THE CURRENT CONDITIONS.
- PHASE THE WORK SO THAT ALL INTERSECTION/SIDEWALK PATH AREAS 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.
- DO NOT MOUNT SIGNS AND OTHER DEVICES LOWER THAN 7 FT ABOVE THE TEMPORARY PEDESTRIAN PATHWAY AND SHALL NOT PROJECT MORE THAN 4 INCHES INTO ACCESSIBLE PEDESTRIAN ROUTE.
- PROVIDE A SMOOTH, CONTINUOUS HARD SURFACE THROUGHOUT THE ENTIRE LENGTH AND WIDTH OF THE PEDESTRIAN ROUTE THROUGHOUT CONSTRUCTION. NO CURBS OR VERTICAL ELEVATION CHANGES SHALL BE GREATER THAN 1/4-INCH IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

PROJECT SPECIFICS

14. A REMINDER TO THE CONTRACTOR THAT SECTION 105.07 OF THE STANDARD SPECIFICATIONS REQUIRES THE GENERAL CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT OR SUPERVISOR ON THE PROJECT AT ALL TIMES. IF THE ENGINEER OR REPRESENTATIVE FINDS THIS NOT TO BE SO, THE CONTRACTOR IS TO REPLACE THE SUPERINTENDENT OR SUPERVISOR IMMEDIATELY OR RISK PROJECT SUSPENSION.

15. ROADS, WHICH INCLUDE CROSSROAD PIPE WORK, MUST REMAIN OPEN TO ONE-LANE OF TRAFFIC AT ALL TIMES.

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16. AN APPROVED PRODUCTION PLANT MUST PROVIDE THE CONTRACTOR WITH ALL PORTLAND CEMENT CONCRETE, UNLESS THE ENGINEER APPROVES OTHERWISE. CONCRETE TRUCKS MUST ONLY USE VOLUMETRIC CALIBRATION TO PROVIDE ON-SITE MIXTURES. THIS REQUIREMENT PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORK HOURS AND NIGHTTIME WORK RESTRICTIONS.

17. UNLESS SPECIFIED, PAVING OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

18. THE ENGINEER OR REPRESENTATIVE MUST DEEM ALL PREPARATION, INCLUDING VEGETATION REMOVAL, AS SATISFACTORY PRIOR TO THE CONTRACTOR CONTINUING WITH THE WORK.

19. IN LOCATIONS WHERE ANY SPECIFIC BITUMINOUS PAVEMENT PATCH EXCEEDS 25 LINEAL FEET (4-FOOT MINIMUM WIDTH), THE CONTRACTOR SHALL MILL THE EXISTING MATERIAL.

20. THE CONTRACTOR SHALL PLACE *BUTT JOINTS* AT ALL INTERSECTING SUPERPAVE ROADS AND ANY OTHER LOCATIONS AS THE ENGINEER DIRECTS. BUTT JOINTS AT DRAINAGE STRUCTURES, NOT WITHIN THE RESURFACING SCOPE OF WORK, SHALL BE AS PER THE INCLUDED PLAN DETAIL OR LOCATION NOTES.

21. RAMP ALL TRANSVERSE VERTICAL DIFFERENCES, SUCH AS BUTT JOINTS CUT PRIOR TO THE DAY OF THE PAVEMENT OVERLAY, RAISED EDGES OF MANHOLES, CATCH BASINS, WATER VALVE BOXES, ETC. WITH BITUMINOUS PAVEMENT TRM AT A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS ARE NOT ALLOWABLE FOR THIS PURPOSE.

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.

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

23. WHEN CLEANING AFTER A MILLING OPERATION, THE CONTRACTOR SHALL TAKE CARE TO REMOVE PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC., SO AS NOT TO DISTURB THE EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTH. ANY DAMAGE THE CONTRACTOR'S OPERATION CAUSES MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE.

24. REPLACE CATCH BASIN GRATES WITHIN THE LOCATION LIMITS THAT DO NOT COMPLY WITH THE STANDARD DETAIL FOR A TYPE 1 GRATE, I.E. DOES NOT HAVE 45 DEGREE SLOTS. THE ENGINEER SHALL DETERMINE THE ACTUAL LOCATIONS AND NEED FOR GRATE OR FRAME MODIFICATIONS.

25. THE CONTRACTOR WILL INSTALL STEPS IN CATCH BASINS THAT ARE 4-FOOT OR GREATER IN DEPTH AFTER THE ADJUSTMENTS OR REPAIRS IN ACCORDANCE WITH SECTION 708 OF THE STANDARD SPECIFICATIONS.

26. IF DITCH SLOPE ADJUSTMENTS ARE NECESSARY, THE ENGINEER WILL DETERMINE THE FINAL SLOPE AFTER UNDERGROUND UTILITY LOCATIONS ARE KNOWN.

27. THE CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY EXISTING UTILITY CONFLICTS WITH ENGINEER APPROVAL.

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28. WHERE SIDEWALKS EXIST WITHIN THE LOCATION LIMITS, CURB RAMPS SHALL BE EITHER NEWLY INSTALLED OR RETROFITTED, AS THE ENGINEER DIRECTS, IN COMPLIANCE WITH THE MOST CURRENT DELAWARE STANDARD CONSTRUCTION DETAILS OR AS SHOWN ON THE PLANS. CONTRACTOR WILL RECEIVE THE PAYMENT UNDER THE APPROPRIATE *CURB RAMP* AND *DETECTABLE WARNING SYSTEM* ITEMS.

29. THE CONTRACTOR MAY USE ONE OR MORE OF THE FOLLOWING MATERIALS TO FILL SHOULDER AREAS ADJACENT TO NEW HOT MIX OVERLAYS: ITEMS 908003 - *TOPSOIL 4"* DEPTH OR 302005 - *GRADED AGGREGATE BASE COURSE, TYPE B*. THE UNIT PRICE SHALL INCLUDE FURNISHING, PLACEMENT, GRADING AND COMPACTING THE MATERIAL.

30. THE DEFINITION OF A BITUMINOUS PAVEMENT WEDGE COURSE IS WHEN THE CONTRACTOR PLACES BITUMINOUS PAVEMENT AT A VARIABLE WIDTH. THE TAPERED EDGE WILL BE A MINIMUM DISTANCE OF 2'-0" FROM THE CENTERLINE OF THE ROAD AND WITH A CROSS SECTION THAT STARTS AT 0" THICKNESS ON THE TAPERED EDGE AND ENDS AT A VARIABLE THICKNESS AT THE OTHER SIDE WITH THE INTENT OF PROVIDING A FINAL CROSS-SECTION WITH A 2 PERCENT SLOPE. THE ENGINEER DETERMINES WHERE TO PROVIDE THE WEDGE ON THE INDIVIDUAL ROAD CHARACTERISTICS ENCOUNTERED.

31. THE CONTRACTOR'S USE OF STEEL PLATES SHALL HAVE THE ENGINEER'S APPROVAL.

PROJECT TIMING

32. ALL UTILITY ACCESS ADJUSTMENTS SHALL BE MADE NO MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO OR AFTER THE PLACEMENT OF THE FINAL COURSE OF BITUMINOUS PAVEMENT UNLESS THE ENGINEER OTHERWISE APPROVES. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH THE DEPARTMENT CONTINUING TO ASSESS TIME CHARGES.

33. COMPLETE ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, 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 THE DEPARTMENT CONTINUING TO ASSESS TIME CHARGES.

34. THE ENGINEER SHALL APPROVE ANY WORK THAT IS TO OCCUR ON SATURDAYS AND SUNDAYS, IN ADDITION TO HOLIDAYS AND SPECIAL EVENTS.

35. AT EACH CONTRACT LOCATION FOR P.C.C. CURBS, SIDEWALKS, OR VALLEY GUTTERS, COMPLETE WITHIN SEVEN (7) CALENDAR DAYS ANY RESTORATION, TOPSOIL, SEEDING, MULCH, AND REMOVAL OF ALL MATERIALS FOR CURB & GUTTER OR SIDEWALK; SEALING OF VALLEY GUTTERS AND PARGING OF CATCH BASINS. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH THE DEPARTMENT CONTINUING TO ASSESS TIME CHARGES.

PAY ITEMS' PARAMETERS

36. THE DEPARTMENT ANTICIPATES WORK FOR PAY ITEM 201000, *CLEARING AND GRUBBING*, TO BE A RANGE OF WORK TO REMOVE LOW VEGETATION TO FALLEN DOWN TREES AND LIMBS. THE BASIS FOR

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THE LUMP SUM FORMULA IS A) 100 OPEN-END LOCATIONS FOR LOW VEGETATION, AND B) 5 LOCATIONS FOR FALLEN DOWN TREES AND LIMBS.

Z = TOTAL LUMP SUM

A = LOW VEGETATION PER LOCATION

B = FALLEN DOWN TREES AND LIMBS PER LOCATION

$$100 (A) + 5 (B) = Z$$

37. THE DEPARTMENT ANTICIPATES THE WORK FOR PAY ITEM 211000, *REMOVAL OF STRUCTURES AND OBSTRUCTIONS*, TO BE A RANGE OF 10 – 26 CY. THE BASIS FOR THE LUMP SUM FORMULA BID IS A) 20 OPEN-END LOCATIONS WITH A QUANTITY OF 0 - 0.5 CY, B) 10 OPEN-END LOCATIONS WITH A QUANTITY OF 0.5 – 1.0 CY, AND C) 2 OPEN-END LOCATIONS WITH A QUANTITY OF 1.0 – 3.0 CY.

Z = TOTAL LUMP SUM

A = 0 – 0.5 CY PER LOCATION

B = 0.5 – 1.0 CY PER LOCATION

C = 1.0 – 3.0 CY PER LOCATION

$$20 (A) + 10 (B) + 2 (C) = Z$$

38. THE COST OF CLIPPING THE ROAD EDGES BACK, PICKING UP AND DISPOSING OF EXCESS SOD AND SWEEPING, AND CLEANING EXISTING PAVEMENT PRIOR TO OVERLAY SHALL BE INCIDENTAL TO ALL ITEMS IN SECTION 401.

39. THE COST OF FINE GRADING, COMPACTING, AND PREPARING EXISTING SHOULDERS FOR PAVING SHALL BE INCIDENTAL TO ALL PAY ITEMS IN SECTION 401.

40. IF BITUMINOUS PAVEMENT IS PLACED WITHIN THE 2'-0" CLEARANCE OF EITHER SIDE OF THE ROADWAY CENTERLINE, AS SPECIFIED IN NOTE 30, THAN THAT WORK WILL BE DEEMED AS A BITUMINOUS PAVEMENT OVERLAY AND ALL OF THE TONNAGE UTILIZED FOR THE ENTIRE LOCATION WILL BE PAID UNDER ITEM 401800 OR 401801.

41. PAYMENT FOR ANY BITUMINOUS PAVEMENT, *WMA*, *SUPERPAVE*, WHICH CONSISTS OF AT LEAST A 200-FOOT STRAIGHT LINE PAVE REGARDLESS OF THE SPECIFIED WIDTH (4-FOOT MINIMUM) AND SHALL BE UNDER THE BID PRICE FOR THE RESPECTIVE SUPERPAVE PAVING ITEM - EITHER 401800 OR 401801. THE PAYMENT FOR ANY PAVING, WHICH IS LESS THAN 200 LINEAL FEET, WILL BE UNDER THE UNIT PRICE BID FOR *WMA*, *SUPERPAVE*, *PATCHING* - EITHER 401821 OR 401822.

42. PAYMENT FOR PATCHING MORE THAN 25 FEET WILL UTILIZE THE UNIT PRICE BID FOR THE APPLICABLE *PAVEMENT-MILLING* BITUMINOUS PAVEMENT ITEM. FOR BITUMINOUS PAVEMENT PATCHES OF 25 FEET OR LESS, PAYMENT FOR EXCAVATION SHALL BE MADE AT THE UNIT PRICE BID FOR *WMA*, *SUPERPAVE*, *PATCHING* ITEM 406001, REGARDLESS OF THE REMOVAL METHOD THE CONTRACTOR CHOOSES TO PERFORM THE WORK.

43. THE MATERIALS NECESSARY TO JOIN CORRUGATED STEEL PIPES TOGETHER IS INCIDENTAL TO PAY ITEMS THAT BEGIN WITH 614.

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44. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF CLASS A CONCRETE, AS STATED WITHIN SECTION 503.02 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS, FOR THE FOLLOWING PORTLAND CEMENT CONCRETE ITEMS: ITEM 710002 - *ADJUST AND REPAIR EXISTING MANHOLES*; ITEM 750000 - *ADJUST WATER VALVE BOX*; AND ITEM 710001 - *ADJUST EXISTING DRAINAGE INLET*.

45. PAYMENT TO INSTALL STEPS IN CATCH BASINS IN ACCORDANCE WITH SECTION 708 OF THE STANDARD SPECIFICATIONS SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 710001.

46. EXCAVATION FOR P.C.C. CURBS, SIDEWALKS, OR VALLEY GUTTERS SHALL BE INCIDENTAL TO THE BID PRICE FOR THESE RESPECTIVE ITEMS:

- REMOVE EXCAVATED MATERIAL THAT IS NOT NECESSARY TO THE PROJECT FROM THE CONTRACT AT THE CONTRACTOR'S EXPENSE.
- USE ITEM 908003 OR 908005, *TOPSOIL*, AS BACKFILL MATERIAL FOR CURB AND SIDEWALK WHEN THE ENGINEER DIRECTS. SCREEN OR SIFT THE TOPSOIL, SO THE MATERIAL GREATER THAN 0.5" DOES NOT EXIST IN BACKFILL MATERIAL. BACKFILL IMMEDIATELY AFTER THE CONTRACTOR HAS REMOVED THE FORMS UPON COMPLETION OF THE CURB AND GUTTER.

47. THE LUMP SUM BID PRICE FOR *PLANTING* PAY ITEM 737523 WILL BE \$1,000. THE BASIS FOR PAYMENT FOR THIS ITEM WILL BE ON THE ACTUAL RECEIPTS FOR *PLANTING MATERIALS*, TIME, AND LABOR PROVIDED TO THE ENGINEER. THE PURCHASE MUST INCLUDE A ONE-YEAR REPLACEMENT WARRANTY. PROPERTY OWNER(S) WILL CHOOSE EACH TREE AND THE CONTRACTOR WILL CONFIRM THE COMPLETE SCOPE TO OCCUR AT OR UNDER BUDGET PRIOR TO TREE PURCHASE. IF CONTRACTOR DOES NOT CONFIRM THE COST IS WITHIN THE BUDGET PRIOR TO PURCHASE AND THE COSTS BECOME MORE THAN THE BUDGET, NO ADDITIONAL PAYMENT WILL BE MADE.

48. THE CONTRACTOR IS TO COORDINATE 743007 *TRAFFIC OFFICER* BY CALLING THE LOCAL POLICE JURISDICTION OR DELAWARE STATE POLICE "COVER YOUR ASSETS" (CYA) PROGRAM AT 302-300-7449 OR 1-800-391-3776 MONDAY THROUGH FRIDAY, 8 A.M. TO 4 P.M. UNLESS AN EMERGENT SITUATION EXISTS, PLEASE PROVIDE AT LEAST TWO WEEKS OF NOTICE. FURTHER COORDINATION CAN OCCUR, AS THE WORK GETS CLOSER. SOMEONE FROM THE CYA PROGRAM WILL LET THE CONTRACTOR KNOW HOW TO COORDINATE.

49. THE DISTRICT WILL PAY THE CONTRACTOR FOR *PERSONAL GRATE*, PER DELDOT STANDARD SPECIFICATION 708563.

50. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER MILLING OPERATIONS SHALL BE INCIDENTAL TO THE 760 MILLING ITEMS. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE MILLING ITEMS.

51. PAYMENT FOR *PAVEMENT MILLING, TAPER CUT* 760502 (NOTE 24) OR *PROFILE MILLING* 760507 IS THE COMPUTATION OF THE AREA (IN SQUARE YARDS) MULTIPLIED BY THE AVERAGE OF THE OUTSIDE EDGES' TWO DEPTHS (IN INCHES) TO CREATE A SQUARE YARD-INCH UNIT.

52. PAYMENT FOR *BUTT JOINTS* 761001 WILL, IN FULL MILL AREAS SHALL BE INCIDENTAL TO THE MILLING ITEM. WITHIN MILLED AREAS, NO SEPARATE PAYMENT FOR BUTT JOINTS WILL OCCUR, DUE TO THE REMOVAL AND CLEANUP OF THE BITUMINOUS PAVEMENT RESIDUE WEDGE LEFT FROM MILLING OPERATIONS SHALL BE INCIDENTAL TO THE MILLING ITEM.

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NOTES

53. WITH THE EXCEPTION OF *BUTT JOINTS* AND UNLESS OTHERWISE NOTED IN THE PLANS OR DETAILS, *SAWCUTTING* BITUMINOUS PAVEMENT SHALL BE PAID UNDER ITEM 762001.

54. THE *INITIAL EXPENSE* ITEM 763000, AS BID, IS FOR THE TOTAL VALUE OF THE CONTRACT. USE THE FOLLOWING FORMULA FOR CALCULATING 763000 FOR EACH PAY ESTIMATE:

Z = TOTAL CONTRACT BID

X = COMPLETED WORK FOR ONE PAY ESTIMATE

Y = ITEM 763000 BID PRICE

$(Y / Z) * X = \text{PAYMENT FOR ITEM 763000 FOR EACH PAY ESTIMATE}$

THE FINAL ESTIMATE VALUE FOR ITEM 763000 MAY BE HIGHER OR LOWER THAN THE BID PRICE BASED ON WORK COMPLETED DURING THE CONTRACT, PER THE ABOVE FORMULA.

NOTE THAT MOBILIZATION FOR ALL LOCATIONS IS INCIDENTAL TO ITEM 763000 *INITIAL EXPENSE*.

ALSO NOTE THAT THE CONTRACTOR WILL NOT RECEIVE ANY ADDITIONAL PAYMENT FOR ANY ADDITIONAL MOBILIZATIONS THAT THE DISTRICT REQUESTS, NO MATTER IF THE TOTAL COST OF THE ALREADY PERFORMED WORK PLUS INCREASED/DECREASED LOCATIONS STILL DOES NOT EXCEED THE TOTAL AWARD PRICE OF THE CONTRACT.

55. THE DEPARTMENT ANTICIPATES WORK FOR PAY ITEM 763501, *CONSTRUCTION ENGINEERING*, TO BE THE CONTRACTOR TO DETERMINE DITCH INVERTS AND AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANT SIDEWALK. THE BASIS FOR THE LUMP SUM FORMULA BID IS A) 3 OPEN-END LOCATIONS FOR DITCH INVERTS AND B) 15 OPEN-END LOCATIONS FOR SIDEWALK.

Z = TOTAL LUMP SUM

A = DITCH INVERTS PER LOCATION

B = ADA-COMPLIANT SIDEWALK PER LOCATION

$3 (A) + 15 (B) = Z$

56. THE DISTRICT WILL PAY THE CONTRACTOR FOR *MAINTENANCE OF TRAFFIC* (MOT), PER DELDOT STANDARD SPECIFICATION 763643, UNLESS THE DISTRICT DEEMS THAT A SPECIFIC LOCATION DOES NOT NEED TO UTILIZE THIS PAY ITEM. FOR APPLICABLE LOCATIONS, THE DISTRICT WILL PROCESS THE COST EACH WORK-ORDER'S MOT PAYMENT ON THE NEXT PAY ESTIMATE AFTER THE WORK IS 100% COMPLETE. EACH SUBDIVISION WILL BE ONE MOT PAYMENT THAT WILL INCLUDE ALL ROADS OR STREETS WITHIN THAT ONE SUBDIVISION.

END OF NOTES

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CTF PROJECTS CENTRAL, FY2016, 2017, & 2018, OPEN END

LOCATION 1

OPEN END CONTRACT VARIOUS LOCATIONS WITHIN KENT CO - OPEN END
CONTRACT VARIOUS LOCATIONS WITHIN KENT CO FROM CTF PAY ITEMS

LENGTH

GENERAL IMPROVEMENTS

CTF PROJECTS CENTRAL, FY 2016, 2017, AND 2018

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

202000	EXCAVATION AND EMBANKMENT	500.00 C.Y.
208000	EXCAVATION AND BACKFILLING FOR PIPE TRENCHES	800.00 C.Y.
210000	FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL	600.00 C.Y.
211004	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (PIPE)	1,200.00 L.F.
212001	UNDERCUT EXCAVATION, PATCHING	50.00 C.Y.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	110.00 TON
302006	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	150.00 TON
302007	GRADED AGGREGATE BASE COURSE, TYPE B	250.00 C.Y.
302012	DELAWARE NO. 57 STONE	100.00 TON
401506	SPEED HUMP	180.00 L.F.
401574	PERVIOUS BITUMINOUS ASPHALT PAVEMENT	250.00 TON
401754	FOG SEAL	15,000.00 GAL
401756	RUBBER MODIFIED FOG SEAL	15,000.00 GAL
401758	COAL SLAG	11,250.00 LB
401760	FOG SEAL WITH CURBING	14,700.00 GAL
401761	RUBBER MODIFIED FOG SEAL WITH CURBING	14,500.00 GAL
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	6,000.00 TON
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	1,200.00 TON
401810	BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22	550.00 TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	1,100.00 TON
401822	BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	250.00 TON
406001	BITUMINOUS CONCRETE PATCHING	7,500.00 SY-IN
406507	CRACK SEALING	12,000.00 L.F.
602016	PORTLAND CEMENT CONCRETE MASONRY, CLASS C	500.00 C.Y.
612002	REINFORCED CONCRETE PIPE, 15", CLASS III	480.00 L.F.
612003	REINFORCED CONCRETE PIPE, 18", CLASS III	280.00 L.F.
612007	REINFORCED CONCRETE PIPE, 30", CLASS III	280.00 L.F.

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CTF PROJECTS CENTRAL, FY2016, 2017, & 2018, OPEN END

LOCATION 1

OPEN END CONTRACT VARIOUS LOCATIONS WITHIN KENT CO - OPEN END
CONTRACT VARIOUS LOCATIONS WITHIN KENT CO FROM CTF PAY ITEMS

LENGTH

GENERAL IMPROVEMENTS

CTF PROJECTS CENTRAL, FY 2016, 2017, AND 2018

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

612202	REINFORCED CONCRETE ELLIPTICAL PIPE, 24"X38", CLASS III	160.00 L.F.
612502	PVC PIPE, 6"	108.00 L.F.
612520	CORRUGATED POLYETHYLENE PIPE, TYPE S, 15"	120.00 L.F.
612522	CORRUGATED POLYETHYLENE PIPE, TYPE S, 12"	304.00 L.F.
612535	CLEANING DRAINAGE PIPE, 15"-24" DIA	600.00 L.F.
612536	CLEANING DRAINAGE PIPE, GREATER THAN 24" DIA	500.00 L.F.
614002	GALVANIZED CORRUGATED STEEL PIPE, 15", 16 GAGE, 2 2/3" X 1/2" CORRUGATION	88.00 L.F.
614042	GALVANIZED CORRUGATED STEEL PIPE, 24" X 18", 14 GAGE, 2 2/3" X 1/2" CORRUGATION	104.00 L.F.
617002	REINFORCED CONCRETE FLARED END SECTION, 15"	6.00 EACH
617003	REINFORCED CONCRETE FLARED END SECTION, 18"	4.00 EACH
617007	REINFORCED CONCRETE FLARED END SECTION, 30"	4.00 EACH
701014	PORTLAND CEMENT CONCRETE CURB, TYPE 1-6	400.00 L.F.
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	400.00 L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	600.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	400.00 L.F.
705001	P.C.C. SIDEWALK, 4"	8,000.00 S.F.
705002	P.C.C. SIDEWALK, 6"	1,200.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	400.00 S.F.
705008	CURB RAMP, TYPE 1	900.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	800.00 S.F.
705010	CURB RAMP, TYPE 5	600.00 S.F.
708045	LAWN INLET	6.00 EACH
708050	DRAINAGE INLET, 34" X 18"	6.00 EACH
708051	DRAINAGE INLET, 34" X 24"	6.00 EACH
708053	DRAINAGE INLET, 48" X 48"	8.00 EACH
708059	DRAINAGE INLET, 72" X 72"	6.00 EACH
708060	REPLACE DRAINAGE INLET GRATE(S)	12.00 EACH

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CTF PROJECTS CENTRAL, FY2016, 2017, & 2018, OPEN END

LOCATION 1

**OPEN END CONTRACT VARIOUS LOCATIONS WITHIN KENT CO - OPEN END
CONTRACT VARIOUS LOCATIONS WITHIN KENT CO FROM CTF PAY ITEMS**

LENGTH

GENERAL IMPROVEMENTS

CTF PROJECTS CENTRAL, FY 2016, 2017, AND 2018

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

708061	REPLACE DRAINAGE INLET FRAME(S)	12.00 EACH
708114	MANHOLE, 66" X 48"	4.00 EACH
708563	PERSONNEL GRATE FOR PIPE INLET	1.00 L.S.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	25.00 EACH
712005	RIPRAP, R-4	325.00 S.Y.
712006	RIPRAP, R-5	75.00 S.Y.
712030	PRESACKED CONCRETE RIPRAP	230.00 C.Y.
713003	GEOTEXTILES, RIPRAP	400.00 S.Y.
714003	DITCHING	3,600.00 L.F.
736001	SODDING	400.00 S.Y.
737523	PLANTINGS	1.00 L.S.
741002	TREE REMOVAL 11" TO 14.9"	40.00 EACH
741003	TREE REMOVAL 15" TO 18.9"	40.00 EACH
741004	TREE REMOVAL 19" TO 24.9"	40.00 EACH
741005	TREE REMOVAL 25" TO 30.9"	12.00 EACH
741006	TREE REMOVAL 31" TO 36.9"	12.00 EACH
741007	TREE REMOVAL 37" TO 42.9"	12.00 EACH
741501	TREE TRIMMING	30.00 EACH
741502	STUMP REMOVAL	300.00 L.F.
741503	ROOT PRUNING	930.00 L.F.
743003	ARROWPANELS, TYPE C	45.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	45.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	25.00 EA-DY
743006	PLASTIC DRUMS	755.00 EA-DY
743007	** TRAFFIC OFFICERS	100.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	50.00 EA-DY

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CTF PROJECTS CENTRAL, FY2016, 2017, & 2018, OPEN END

LOCATION 1

**OPEN END CONTRACT VARIOUS LOCATIONS WITHIN KENT CO - OPEN END
CONTRACT VARIOUS LOCATIONS WITHIN KENT CO FROM CTF PAY ITEMS**

LENGTH

GENERAL IMPROVEMENTS

CTF PROJECTS CENTRAL, FY 2016, 2017, AND 2018

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

743023	TEMPORARY BARRICADES, TYPE III	149.00 LFDY
743051	FLAGGER, KENT COUNTY, STATE	1,800.00 HOUR
743063	FLAGGER, KENT COUNTY, STATE, OVERTIME	340.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	500.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	1,650.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	700.00 S.F.
748036	PAINTING OF WHITE OR YELLOW, 5" LINE	1,803.00 L.F.
750000	ADJUST WATER VALVE BOXES	35.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	4,000.00 S.Y.
760000	PAVEMENT - MILLING, HOT-MIX	4,500.00 SY-IN
760501	PAVEMENT MILLING, PATCHING	800.00 SY-IN
760502	PAVEMENT MILLING, TAPER CUT	6,000.00 SY-IN
760507	PROFILE MILLING, BITUMINOUS CONCRETE	2,500.00 SY-IN
761001	BUTT JOINTS, HOT MIX	3,200.00 S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	1,200.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	200.00 L.F.
762003	SAW CUTTING, CONCRETE, VARIABLE DEPTH	610.00 L.F.
762500	SAW CUTTING, HOT-MIX, HORIZONTAL	100.00 L.F.
763587	MAN-HOUR OF MISCELLANEOUS WORK	680.00 HOUR
908001	TOPSOIL (TON)	400.00 TON
908003	TOPSOIL, 4" DEPTH	3,500.00 S.Y.
908005	TOPSOIL, 12" DEPTH	250.00 S.Y.
908014	PERMANENT GRASS SEEDING, DRY GROUND	700.00 S.Y.
908016	PERMANENT GRASS SEEDING, SUBDIVISION	2,680.00 S.Y.

** DENOTES FIXED PRICE ITEM

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CONTRACT QUANTITIES SUMMARY SHEET

202000	EXCAVATION AND EMBANKMENT	500.00 C.Y.
208000	EXCAVATION AND BACKFILLING FOR PIPE TRENCHES	800.00 C.Y.
210000	FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL	600.00 C.Y.
211004	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (PIPE)	1,200.00 L.F.
212001	UNDERCUT EXCAVATION, PATCHING	50.00 C.Y.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	110.00 TON
302006	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	150.00 TON
302007	GRADED AGGREGATE BASE COURSE, TYPE B	250.00 C.Y.
302012	DELAWARE NO. 57 STONE	100.00 TON
401506	SPEED HUMP	180.00 L.F.
401574	PERVIOUS BITUMINOUS ASPHALT PAVEMENT	250.00 TON
401754	FOG SEAL	15,000.00 GAL
401756	RUBBER MODIFIED FOG SEAL	15,000.00 GAL
401758	COAL SLAG	11,250.00 LB
401760	FOG SEAL WITH CURBING	14,700.00 GAL
401761	RUBBER MODIFIED FOG SEAL WITH CURBING	14,500.00 GAL
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	6,000.00 TON
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	1,200.00 TON
401810	BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22	550.00 TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	1,100.00 TON
401822	BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	250.00 TON
406001	BITUMINOUS CONCRETE PATCHING	7,500.00 SY-IN
406507	CRACK SEALING	12,000.00 L.F.
602016	PORTLAND CEMENT CONCRETE MASONRY, CLASS C	500.00 C.Y.
612002	REINFORCED CONCRETE PIPE, 15", CLASS III	480.00 L.F.
612003	REINFORCED CONCRETE PIPE, 18", CLASS III	280.00 L.F.
612007	REINFORCED CONCRETE PIPE, 30", CLASS III	280.00 L.F.
612202	REINFORCED CONCRETE ELLIPTICAL PIPE, 24"X38", CLASS III	160.00 L.F.

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CTF PROJECTS CENTRAL, FY2016, 2017, & 2018, OPEN END

CONTRACT QUANTITIES SUMMARY SHEET

612502	PVC PIPE, 6"	108.00 L.F.
612520	CORRUGATED POLYETHYLENE PIPE, TYPE S, 15"	120.00 L.F.
612522	CORRUGATED POLYETHYLENE PIPE, TYPE S, 12"	304.00 L.F.
612535	CLEANING DRAINAGE PIPE, 15"-24" DIA	600.00 L.F.
612536	CLEANING DRAINAGE PIPE, GREATER THAN 24" DIA	500.00 L.F.
614002	GALVANIZED CORRUGATED STEEL PIPE, 15", 16 GAGE, 2 2/3" X 1/2" CORRUGATION	88.00 L.F.
614042	GALVANIZED CORRUGATED STEEL PIPE, 24" X 18", 14 GAGE, 2 2/3" X 1/2" CORRUGATION	104.00 L.F.
617002	REINFORCED CONCRETE FLARED END SECTION, 15"	6.00 EACH
617003	REINFORCED CONCRETE FLARED END SECTION, 18"	4.00 EACH
617007	REINFORCED CONCRETE FLARED END SECTION, 30"	4.00 EACH
701014	PORTLAND CEMENT CONCRETE CURB, TYPE 1-6	400.00 L.F.
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	400.00 L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	600.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	400.00 L.F.
705001	P.C.C. SIDEWALK, 4"	8,000.00 S.F.
705002	P.C.C. SIDEWALK, 6"	1,200.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	400.00 S.F.
705008	CURB RAMP, TYPE 1	900.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	800.00 S.F.
705010	CURB RAMP, TYPE 5	600.00 S.F.
708045	LAWN INLET	6.00 EACH
708050	DRAINAGE INLET, 34" X 18"	6.00 EACH
708051	DRAINAGE INLET, 34" X 24"	6.00 EACH
708053	DRAINAGE INLET, 48" X 48"	8.00 EACH
708059	DRAINAGE INLET, 72" X 72"	6.00 EACH
708060	REPLACE DRAINAGE INLET GRATE(S)	12.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	12.00 EACH
708114	MANHOLE, 66" X 48"	4.00 EACH
708563	PERSONNEL GRATE FOR PIPE INLET	1.00 L.S.

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CTF PROJECTS CENTRAL, FY2016, 2017, & 2018, OPEN END

CONTRACT QUANTITIES SUMMARY SHEET

710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	25.00 EACH
712005	RIPRAP, R-4	325.00 S.Y.
712006	RIPRAP, R-5	75.00 S.Y.
712030	PRESACKED CONCRETE RIPRAP	230.00 C.Y.
713003	GEOTEXTILES, RIPRAP	400.00 S.Y.
714003	DITCHING	3,600.00 L.F.
736001	SODDING	400.00 S.Y.
737523	PLANTINGS	1.00 L.S.
741002	TREE REMOVAL 11" TO 14.9"	40.00 EACH
741003	TREE REMOVAL 15" TO 18.9"	40.00 EACH
741004	TREE REMOVAL 19" TO 24.9"	40.00 EACH
741005	TREE REMOVAL 25" TO 30.9"	12.00 EACH
741006	TREE REMOVAL 31" TO 36.9"	12.00 EACH
741007	TREE REMOVAL 37" TO 42.9"	12.00 EACH
741501	TREE TRIMMING	30.00 EACH
741502	STUMP REMOVAL	300.00 L.F.
741503	ROOT PRUNING	930.00 L.F.
743003	ARROWPANELS, TYPE C	45.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	45.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	25.00 EA-DY
743006	PLASTIC DRUMS	755.00 EA-DY
743007	** TRAFFIC OFFICERS	100.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	50.00 EA-DY
743023	TEMPORARY BARRICADES, TYPE III	149.00 LFDY
743051	FLAGGER, KENT COUNTY, STATE	1,800.00 HOUR
743063	FLAGGER, KENT COUNTY, STATE, OVERTIME	340.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	500.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	1,650.00 L.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201603201

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CTF PROJECTS CENTRAL, FY2016, 2017, & 2018, OPEN END

CONTRACT QUANTITIES SUMMARY SHEET

748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	700.00 S.F.
748036	PAINTING OF WHITE OR YELLOW, 5" LINE	1,803.00 L.F.
750000	ADJUST WATER VALVE BOXES	35.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	4,000.00 S.Y.
760000	PAVEMENT - MILLING, HOT-MIX	4,500.00 SY-IN
760501	PAVEMENT MILLING, PATCHING	800.00 SY-IN
760502	PAVEMENT MILLING, TAPER CUT	6,000.00 SY-IN
760507	PROFILE MILLING, BITUMINOUS CONCRETE	2,500.00 SY-IN
761001	BUTT JOINTS, HOT MIX	3,200.00 S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	1,200.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	200.00 L.F.
762003	SAW CUTTING, CONCRETE, VARIABLE DEPTH	610.00 L.F.
762500	SAW CUTTING, HOT-MIX, HORIZONTAL	100.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763587	MAN-HOUR OF MISCELLANEOUS WORK	680.00 HOUR
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM
908001	TOPSOIL (TON)	400.00 TON
908003	TOPSOIL, 4" DEPTH	3,500.00 S.Y.
908005	TOPSOIL, 12" DEPTH	250.00 S.Y.
908014	PERMANENT GRASS SEEDING, DRY GROUND	700.00 S.Y.
908016	PERMANENT GRASS SEEDING, SUBDIVISION	2,680.00 S.Y.

** DENOTES FIXED PRICE ITEM