

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
MAINTENANCE AND OPERATIONS
CONSTRUCTION PLANS AND SPECIFICATIONS FOR

COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

CONTRACT NUMBER - T202004902.01

PRIMAVERA ID - 20-04902

FEDERAL AID NUMBER - NONE

COUNTY: NEW CASTLE

PLANS PREPARED BY:

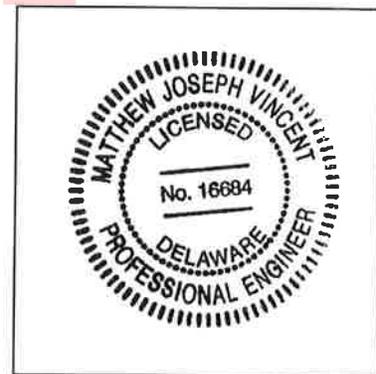
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DESIGNER

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DELDOT - CE IV/PROJECT MANAGER
MAINTENANCE AND OPERATIONS - (CAD)

10/16/19
DATE



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

APPROVED FOR ADVERTISEMENT

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DIRECTOR OF MAINTENANCE AND OPERATIONS

10-17-19
DATE

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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

LOCATION MAP



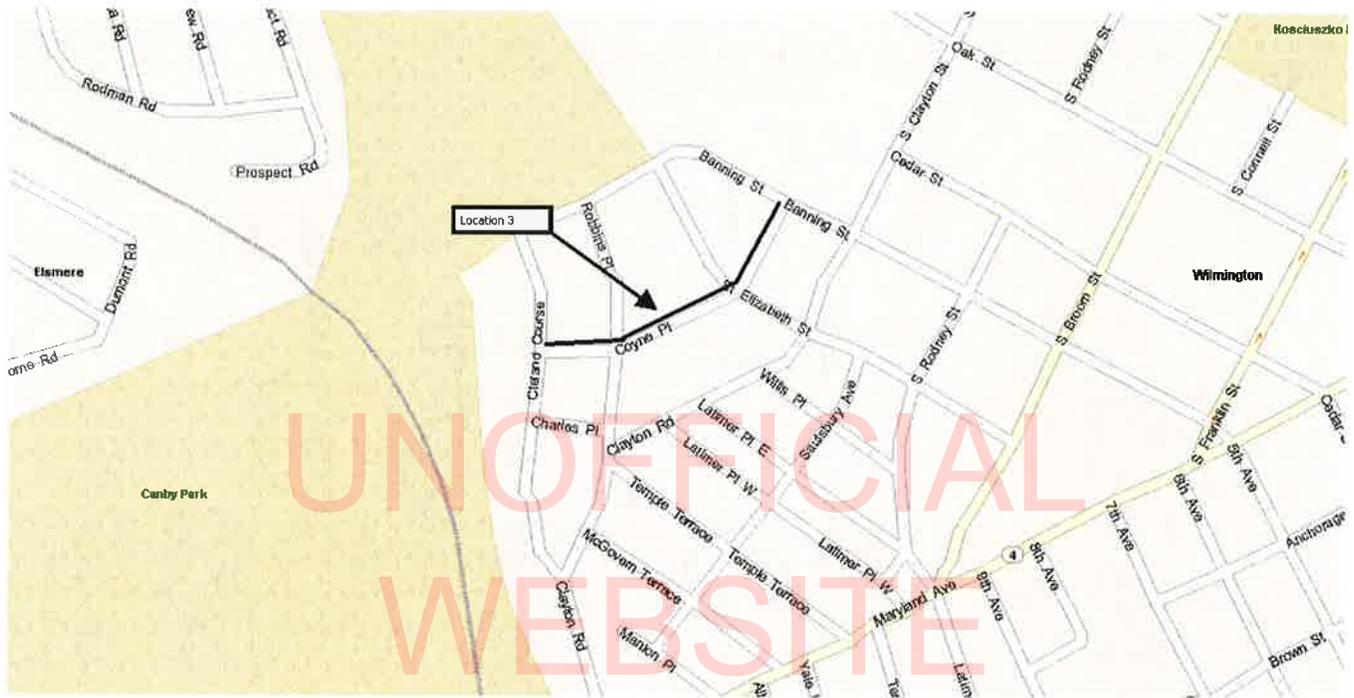
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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

LOCATION MAP



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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

LOCATION MAP



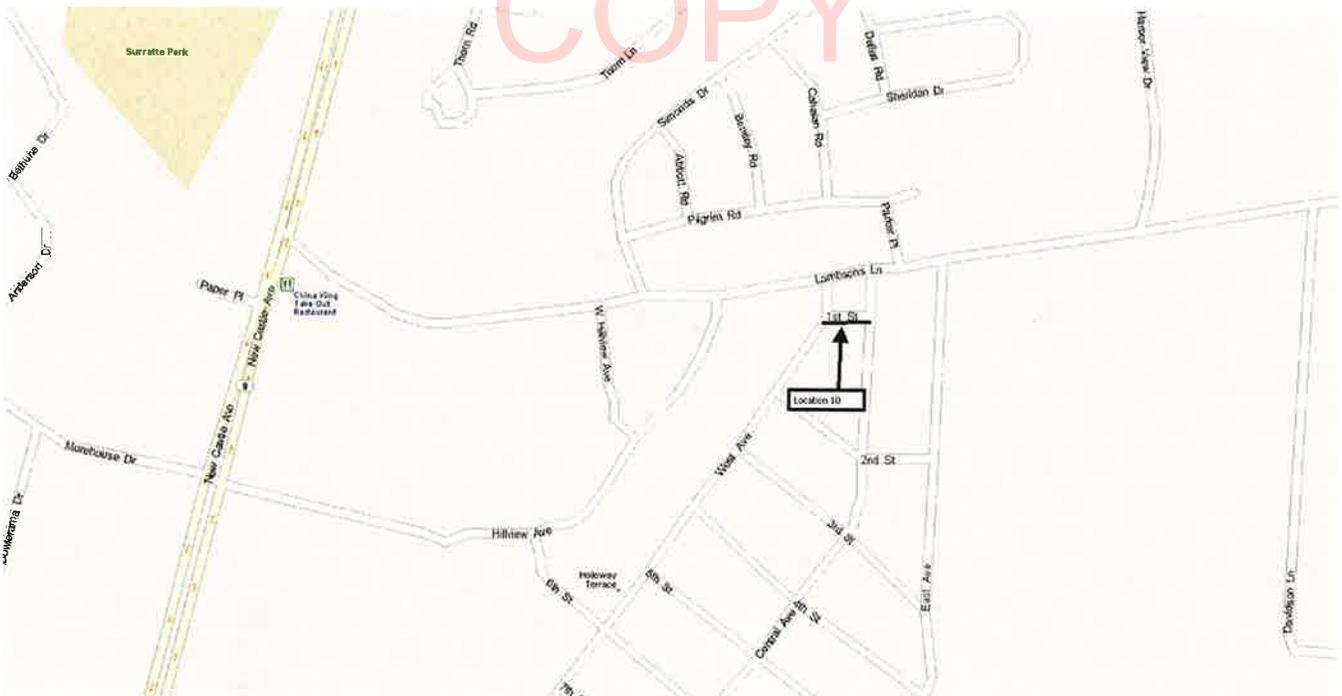
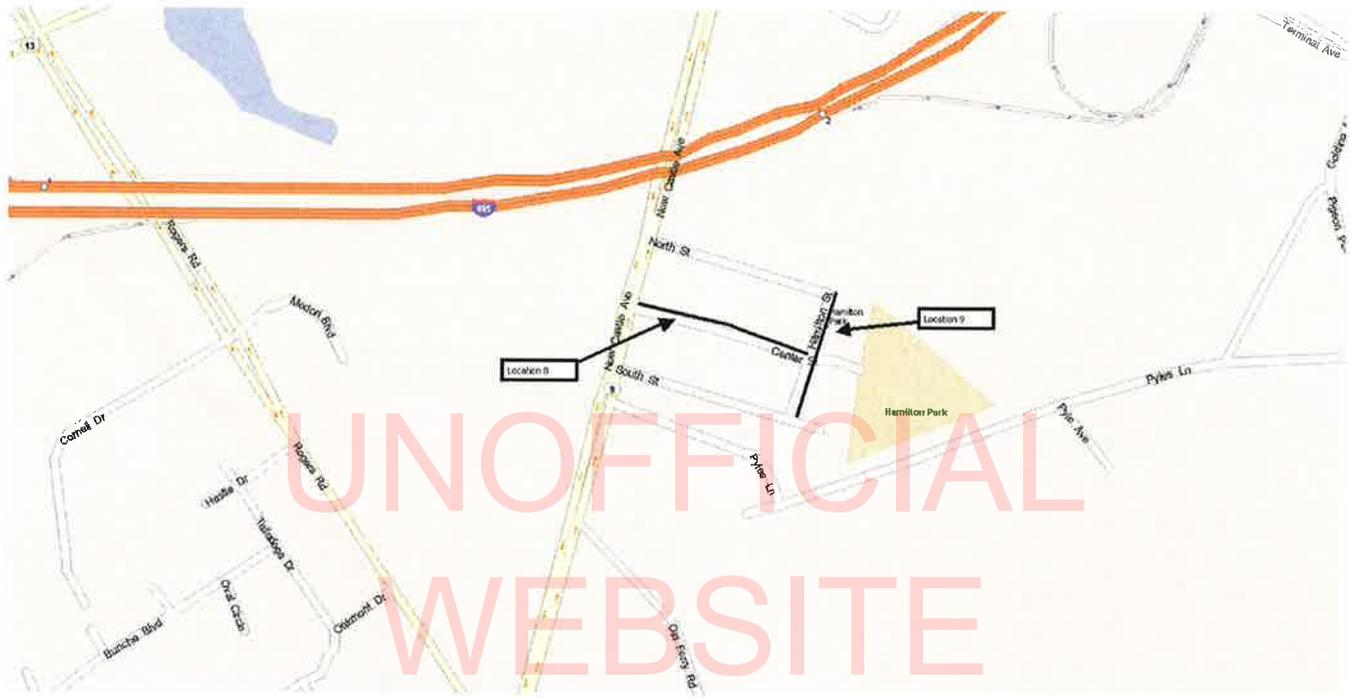
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LOCATION MAP



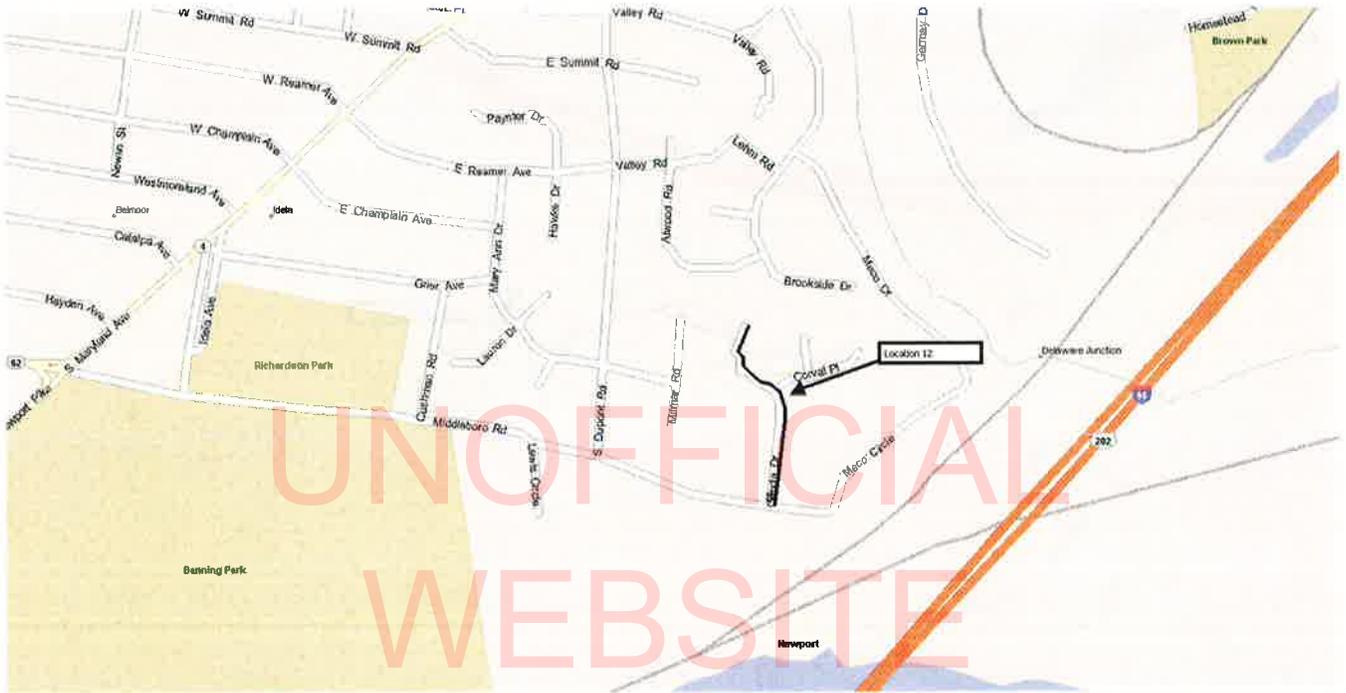
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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

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GENERAL CONTRACT PLAN NOTES

SECTION 100

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED AUGUST 2016 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DETAILS, DATED 2016 INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

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 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. LOCATION LISTINGS INDICATE GENERAL LIMITS OF CONSTRUCTION, MAJOR TYPES OF IMPROVEMENTS, AND ESTIMATED QUANTITIES. 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.

4. THIS CONTRACT WILL HAVE CLEAR "START BY" DATE AND TIME ALLOCATED FOR COMPLETION. FAILURE TO COMPLETE THE CONTRACT 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.

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.

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GENERAL CONTRACT PLAN NOTES

FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

ADDITIONAL WORK:

5. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO INCREASE THE QUANTITIES OF THE ITEMS SPECIFIED IN THIS CONTRACT. SUCH ADDITIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES.

SECTION 400

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6. 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 AN 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 30100X. UNLESS SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

7. PAVING IS TO BE COMPLETED CURB TO CURB INCLUDING TURN LANES AND INTERSECTIONS WITHIN SEVEN (7) CALENDER DAYS OF PAVEMENT MILLING FOR A PARTICULAR DAYS PAVEMENT MILLING LOCATION. THIS RESTRICTION APPLIES TO EACH DAYS PAVEMENT MILLING OPERATION, NOT AN ENTIRE PROJECT LOCATION. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

8. IN ADDITION TO ITEM 401506 SPEED HUMP BEING UTILIZED FOR NEW SPEED HUMPS, IT SHALL ALSO INCLUDE REMOVE AND REPLACE SPEED HUMPS. AT REMOVE AND REPLACE LOCATIONS, 401506 SHALL BE PAID AND THE REMOVAL SHALL BE INCIDENTAL TO THIS ITEM. SPEED HUMPS REMOVED AS PART OF THE MILLING/PAVING OPERATION, SCHEDULED TO BE PUT BACK, SHALL BE REPLACED WITHIN SEVEN (7) DAYS OF COMPLETION OF PAVING. THIS SHALL INCLUDE PERMANENT STRIPING AND DELINEATOR POSTS. IF PERMANENT STRIPING CANNOT BE PLACED THE SAME DAY AS THE SPEED HUMP PLACEMENT, TEMPORARY STRIPING SHALL BE APPLIED THE SAME DAY.

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GENERAL CONTRACT PLAN NOTES

9. ON THIS CONTRACT, PAVING WILL INCLUDE INTERSECTING STREETS FROM P.C. TO P.C.: MILLING AND PAVING OF INTERSECTING STREETS WILL NOT BE CONSIDERED FOR ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVEMENT SURCHARGE, NOR WILL DRIVEWAYS AND ENTRANCES WITHIN RIGHT-OF-WAY.

SECTION 500

10. ITEM 501001 PCC PAVEMENT, 8" IS DESIGNATED FOR NOW-DEFUNCT ITEM 701004 PCC VALLEY GUTTER-8". WHEN REPLACING VALLEY GUTTERS, PLEASE REFER TO CONTRACT PLAN DETAILS. DOWEL BARS, WIRE MESH REINFORCEMENT, BITUMINOUS SEAL, AND EXPANSION, PCC SAWCUTS, AND GABC UNDER THE PCC ARE INCIDENTAL TO VALLEY GUTTER ITEM (501001).

SECTION 600

11. DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 SHALL BE REPLACED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/ FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO 602100/602101 REPLACING DRAINAGE INLETS GRATES/FRAMES. FINAL PAYMENT FOR REPLACED GRATES/ FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.

SECTION 700

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GENERAL CONTRACT PLAN NOTES

12. BUTT JOINTS SHALL BE CONSTRUCTED AT ALL INTERSECTING BITUMINOUS CONCRETE ROADS AND ANY OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. BUTT JOINTS AT RAILROAD CROSSINGS AND AT BRIDGE OR DRAINAGE STRUCTURES NOT TO BE RESURFACED SHALL BE AS PER THE INCLUDED PLAN DETAIL. BUTT JOINTS CUT PRIOR TO THE DAY OF PAVEMENT OVERLAY SHALL BE RAMPED WITH BITUMINOUS CONCRETE TRM INCIDENTAL TO THE ITEM 762004 BUTT JOINT. ONLY BITUMINOUS CONCRETE WILL BE ALLOWED FOR THIS PURPOSE. BUTT JOINTS IN FULL MILL AREAS SHALL BE INCIDENTAL TO THE PAVEMENT MILLING ITEM (760010). SAWCUTS FOR BUTT JOINTS SHALL BE INCIDENTAL TO THE BUTT JOINT ITEM. ALL BITUMINOUS CONCRETE TRM SHALL BE REMOVED PRIOR TO THE PAVING OPERATION.

13. MILLED MATERIAL, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

14. AFTER PAVEMENT MILLING, ALL RAISED EDGES OF MANHOLES, DRAINAGE INLETS, WATER VALVE BOXES, ETC. SHALL BE RAMPED WITH BITUMINOUS CONCRETE TRM AT A 20:1 OR FLATTER SLOPE INCIDENTAL TO PAVEMENT MILLING. PAVEMENT MILLINGS OR COLD PATCH MATERIAL WILL NOT BE ALLOWED FOR THIS PURPOSE. ALL ADJUSTMENTS SHALL BE MADE NOT MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO THE PLACEMENT OF THE FINAL COURSE OF BITUMINOUS CONCRETE, UNLESS DIRECTED BY THE ENGINEER. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. ALL BITUMINOUS CONCRETE TRM SHALL BE REMOVED PRIOR TO THE PAVING OPERATIONS. IF THE CONTRACTOR ELECTS TO ADJUST MANHOLES, DRAINAGE INLETS AND WATER VALVES AFTER THE FINAL COURSE OF PAVING, THIS WORK MUST BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF THE FINAL COURSE OF BITUMINOUS CONCRETE. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED

15. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURB EDGES, ETC., WHEN CLEANING AFTER A PAVEMENT MILLING OPERATION. CARE SHOULD BE TAKEN SO AS NOT TO GOUGE OR DIG DEEPER THAN THE REQUIRED DEPTH. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR PLACING LEVELING COURSES AT HIS OWN EXPENSE.

16. ON THIS CONTRACT FULL MILL AREAS WILL UTILIZE ITEM 760010 PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT (SY-IN). UNLESS OTHERWISE NOTED, ALL MILLING LOCATIONS ARE EXPECTED TO BE MILLED AT A 2" DEPTH. FOR AVERAGE MILLING DEPTHS OF

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GENERAL CONTRACT PLAN NOTES

0.5" TO AN AVERAGE MILLING DEPTH OF 2.25", THE FULL MILL AREAS WILL BE PAID AT AN AVERAGE 2".

17. EXCAVATION FOR THE REPLACEMENT OF P.C.C. CURBS, SIDEWALK OR VALLEY GUTTER SHALL BE INCIDENTAL TO THE PRICE BID FOR THESE RESPECTIVE ITEMS. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PROJECT. IN THE CASE OF NEW SIDEWALK EXCAVATION WILL BE PAID TO THE WIDTH OF THE NEW SIDEWALK UNDER ITEM 202000. ITEM 908001, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL FOR CURB AND SIDEWALK WHEN SO DIRECTED BY THE ENGINEER. WHEN REPLACEMENT OF CURB AND GUTTER HAS BEEN COMPLETED AND THE FORMS REMOVED AT EACH LOCATION OF THIS CONTRACT, BACKFILLING SHALL BE DONE IMMEDIATELY. COMPLETE RESTORATION, TOPSOIL, SEEDING, AND REMOVAL OF ALL MATERIALS FOR CURB & GUTTER OR SIDEWALK; SEALING OF VALLEY GUTTERS AND PARGING OF DRAINAGE INLETS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDER DAYS. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" SHOULD BE PRESENT IN MATERIAL USED FOR BACKFILL.

18. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PARTIALLY SAW AND FILL WITH AN APPROVED SEALER EXISTING CRACKED CURB AND/OR SIDEWALK. THIS WORK WILL BE INCIDENTAL TO ITEM #762001 SAWCUT - CONCRETE FULL DEPTH.

19. PERTAINING TO PCC CURB REMOVAL & PATCHING, SAWCUTTING IS TO BE PERFORMED PRIOR TO THE REMOVAL OF BITUMINOUS CONCRETE UNLESS APPROVAL IS GIVEN BY THE ENGINEERS REPRESENTATIVE.

20. THE CONTRACTOR SHALL PROVIDE RESIDENTS WITH 24 HR. PRIOR WRITTEN NOTICE FOR ALL PHASES OF CONTRACT WORK INCLUDING BUT NOT LIMITED TO: SAWCUTTING FOR P.C.C. OPERATIONS, P.C.C. REMOVAL AND REPLACEMENT, PAVEMENT MILLING, AND PAVING. THIS NOTICE SHALL BE GIVEN TO ALL RESIDENTS WHOSE PROPERTY IS ADJACENT TO THE STREET ON WHICH WORK IS TO BE PERFORMED. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED.

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GENERAL CONTRACT PLAN NOTES

21. BEFORE THE START OF A DAY'S PAVEMENT MILLING OR PAVING OPERATIONS AND WHERE THERE IS EXISTING STRIPING, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE PROOF THAT ENOUGH MATERIAL OF AN APPROVED ALTERNATIVE STRIPING METHOD IS ON HAND AT THE SITE TO ENSURE STRIPING IS COMPLETE BEFORE TRAFFIC IS RETURNED TO THE ROADWAY.

22. LANE CLOSURES ON NUMBERED MAINTENANCE ROADS ARE PERMITTED ONLY BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM.

23. ITEM 710370 STEEL CASING PIPE-4" IS DESIGNATED FOR NOW-DEFUNCT ITEM 718000 ROOF DRAIN. WHEN REPLACING OR EXTENDING ROOF DRAINS, SUMP PUMP DRAINS, ETC. FROM RIGHT-OF-WAY TO CURBLINE, ITEM 710370 WILL BE UTILIZED REGARDLESS OF PIPE MATERIAL OR SIZE.

SECTION 800

24. AT EACH LOCATION, THE CONTRACTOR SHALL NOTE ALL EXISTING PAVEMENT MARKINGS AND SUBMIT A DRAWING WHICH DEPICTS THE STRIPING PATTERN TO THE DEPARTMENT PRIOR TO THE START OF ANY WORK AT THE LOCATION.

THE CONTRACTOR WILL BE RESPONSIBLE TO CORRECT ANY ERRONEOUS MARKINGS IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS AND SHALL BE PLACED WITHIN FIVE (5) CALENDER DAYS (MAXIMUM) AFTER PLACEMENT OF THE FINAL COURSE OF BITUMINOUS CONCRETE. IF THE CONTRACTOR FAILS TO DOCUMENT THE EXISTING PAVEMENT MARKINGS IN AN ACCEPTABLE MANNER, HE SHALL BE REQUIRED TO PROVIDE AT HIS OWN EXPENSE, A NEW PAVEMENT MARKING PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE.

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GENERAL CONTRACT PLAN NOTES

AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY MARKINGS SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT MARKING.

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.

PLACEMENT OF TEMPORARY MARKINGS SHALL RECEIVE PRIOR APPROVAL FROM THE ENGINEER. PAYMENT FOR TEMPORARY PAVEMENT MARKING SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 817003 - TEMPORARY MARKINGS.

25. THE CONTRACTOR, WITH THE ENGINEER, SHALL INVENTORY ALL SIGNS ON ALL ROADS SUBJECT TO IMPROVEMENTS. NECESSARY SIGNS SHALL BE MAINTAINED IN OPERATION DURING CONSTRUCTION AND ANY OTHER SIGNS SHALL BE PROPERLY STORED WITH THE CONTRACTOR, WHO SHALL BE RESPONSIBLE FOR LOSS OR DAMAGE. IMMEDIATELY PRIOR TO FINAL INSPECTION, THE CONTRACTOR AND ENGINEER SHALL AGAIN INVENTORY THE TRAFFIC SIGNS AND ACCOUNT FOR ANY LOST OR DAMAGED SIGNS. LOST OR DAMAGED SIGNS, AT THE DISCRETION OF THE ENGINEER SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

26. BEFORE WORK IS DONE AT ANY LOCATION, THE APPROPRIATE DISTRICT SAFETY OFFICER MUST APPROVE THE MOT FOR THAT LOCATION TWO WEEKS IN ADVANCE. ANY ANTICIPATED IMPACT TO TRAFFIC SIGNALS MUST BE REVIEWED BY THE DELDOT TRAFFIC SECTION PRIOR TO CONSTRUCTION. THEY CAN BE CONTACTED AT 302-659-2400.

27. ANY ERRONEOUS MARKING WILL NOT BE PAID FOR AND SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN

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GENERAL CONTRACT PLAN NOTES

WIDTH SHALL BE REMOVED BY EITHER SAND OR WATER BLASTING. NO OTHER REMOVAL METHODS WILL BE ALLOWED.

28. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING PEDESTRIAN AND BICYCLE FACILITIES, AS WELL AS THE NECESSARY NCHRP 350 OR THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) 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.

29. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION AND SHALL BE IN COMPLIANCE WITH THE NCHRP 350 OR THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). THE DEVICES SHALL BE APPROVED BY THE SAFETY SECTION PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

30. 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.

31. 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. 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 BUSINESS AND RESIDENTS AT ALL TIMES.

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GENERAL CONTRACT PLAN NOTES

- PROVIDE PEDESTRIAN ACCESS THRU 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.

SECTION 900

32. EROSION CONTROL MULCH BLANKET SHALL BE USED IN ALL DISTURBED AREAS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

CTF/OPEN END SPECIFIC PROJECT NOTES

33. NO UTILITY RELOCATION INVOLVEMENT IS ANTICIPATED. SHOULD ANY

CONFLICTS BE ENCOUNTERED DURING CONSTRUCTION REQUIRING ADJUSTMENT AND/OR RELOCATION OF THE AGENCIES' EXISTING FACILITIES, THE NECESSARY RELOCATION WORK SHALL BE ACCOMPLISHED BY THE RESPECTIVE AGENCIES' FORCES, AS DIRECTED BY

THE DISTRICT ENGINEER. ANY ADJUSTMENTS AND/OR RELOCATIONS OF MUNICIPALLY OWNED FACILITIES SHALL BE DONE BY THE STATE'S CONTRACTOR IN ACCORDANCE WITH THE RESPECTIVE AGENCIES' STANDARD SPECIFICATIONS AS DIRECTED BY THE DISTRICT ENGINEER.

34. NO ENVIRONMENTAL PERMITS ARE REQUIRED FOR THIS WORK PROVIDED NO JURISDICTIONAL WETLANDS OR WATERS ARE IMPACTED. IF THERE IS ANY QUESTION AS TO WHETHER OR NOT A WATER OR WETLAND IS JURISDICTIONAL, CONTACT THE DEL DOT ENVIRONMENTAL SECTION AT 302-760-2264.

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GENERAL CONTRACT PLAN NOTES

35. IT IS ANTICIPATED THAT ALL WORK WILL OCCUR WITHIN DELDOT'S EXISTING RIGHT OF WAY OR EASEMENT AREAS. SHOULD THE NEED OCCUR TO TRESPASS ONTO PRIVATE PROPERTY; IT WILL BE THE RESPONSIBILITY OF THE PROJECT MANAGER TO SECURE SUCH TRESPASS NEEDS.

36. NO WORK NEAR OR WITHIN RAILROAD RIGHT-OF-WAY IS ANTICIPATED. IF ANY RAILROAD PROPERTY OR FACILITIES ARE NEAR OR WITHIN THE PROPOSED LIMITS OF WORK OR IF THE PROPOSED WORK ENCROACHES UPON THE RAILROAD'S RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE REQUIRED CLEARANCES AND INSURANCES FOR EACH INVOLVED RAILROAD IN ACCORDANCE WITH THE APPROPRIATE DELDOT MAINTENANCE OF RAILROAD TRAFFIC ITEM. DELDOT'S RAILROAD SECTION MANAGER MUST BE CONTACTED AT (302) 760-2183 TO COORDINATE THE EXECUTION OF THE APPROPRIATE AGREEMENTS AND AUTHORIZATIONS REQUIRED FROM ANY RAILROAD COMPANY INVOLVED, INCLUDING COORDINATION FOR RAILROAD FLAGGING, IF NECESSARY.

37. THE PROJECT MANAGER SHALL BE RESPONSIBLE FOR COORDINATING WITH THE TRAFFIC SECTION RELATING TO ANY IMPACTS TO TRAFFIC SECTION FACILITIES (INCLUDING BUT NOT LIMITED TO TRAFFIC LOOPS, JUNCTION WELLS ETC.) AT LEAST 4 WEEKS IN ADVANCE OF THE START OF THE ACTIVITY. PRIOR TO INITIATING ANY WORK ON THIS CONTRACT (OR SITES), THE PROJECT MANAGER SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING FOR APPROVAL OF THE SAFETY SECTION, A MAINTENANCE OF TRAFFIC PLAN. SUFFICIENT TIME SHALL BE PROVIDED FOR THE REVIEW AND APPROVAL OF THE PLAN. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE PROPOSED TIME RESTRICTIONS ON THE CLOSURE OF TRAVEL LANES SUBJECT TO THE APPROVAL OF THE SAFETY SECTION.

38. THE PROJECT MANAGER IS RESPONSIBLE FOR ENSURING ANY REQUIRED DOCUMENTS AND ANALYSIS AS PART OF THE ADOPTED WORK ZONE SAFETY AND MOBILITY PROCEDURES AND GUIDELINES HAS BEEN COMPLETED PRIOR TO ANY WORK STARTING ON THIS CONTRACT.

39. THE DEPARTMENT RESERVES THE RIGHT TO REQUEST AN EXTENSION OF THIS CONTRACT, WITH THE AGREEMENT OF THE CONTRACTOR, AT THE CURRENT CONTRACT PRICES.

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GENERAL CONTRACT PLAN NOTES

40. THE WORK WILL BE SCHEDULED VIA JOB ORDERS FROM THE DISTRICT. WORK SITES WILL VARY IN SIZE. THE JOB ORDERS WILL INDICATE THE WORK TO BE PERFORMED AT EACH LOCATION.

41. THIS CONTRACT IS NOT SUBJECT TO DEPARTMENT OF LABOR'S PREVAILING WAGE RATES PER THE DELAWARE CODE, 29 Del. C. § 6960(m).

42. WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL BE GENERATED THROUGH JOB ORDERS ISSUED TO THE CONTRACTOR BY THE DEPARTMENT'S PROJECT MANAGER. JOB ORDERS WILL BE ASSEMBLED TO ALLOW THE MOST EFFICIENT ALLOCATION OF THE CONTRACTOR'S WORK FORCE AS THE SITUATION ALLOWS.

EACH JOB ORDER ISSUED WILL HAVE CLEAR "START BY" DATE AND TIME ALLOCATED TO COMPLETE SAID JOB ORDER. FAILURE TO COMPLETE A JOB ORDER IN THE SPECIFIED TIME SHALL CONSTITUTE "FAILURE TO PURSE THE WORK" AND SUBJECTS THE CONTRACTOR TO LIQUIDATED DAMAGES AS OUTLINED IN SUBSECTION 108.08 OF THE STANDARD SPECIFICATIONS.

EACH JOB ORDER IS TO BE COMPLETED WITHIN THE SPECIFIED TIME. ADDITIONAL ITEMS AND/OR WORKING DAYS MAY BE ADDED TO ANY JOB ORDER AS NEEDED AT THE DISCRETION OF THE ENGINEER. IF THE WORK ON A SPECIFIED JOB ORDER 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 JOB ORDER.

43. UPON RECEIPT OF EACH JOB ORDER, THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04. 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.

DELAWARE DEPARTMENT OF TRANSPORTATION

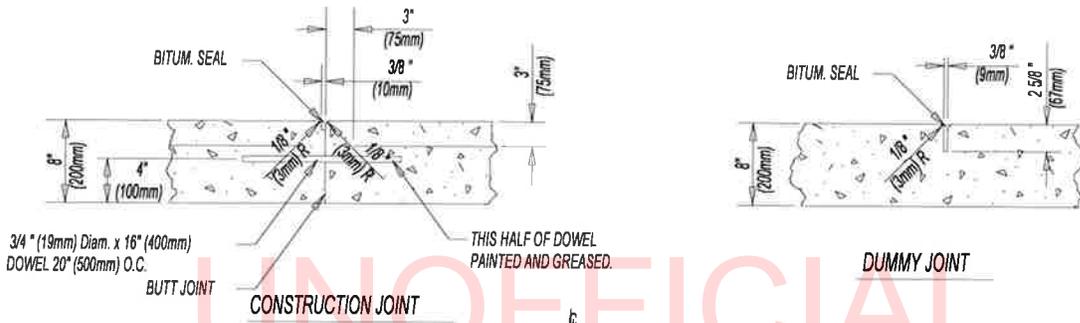
CONTRACT NUMBER- T202004902.01

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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

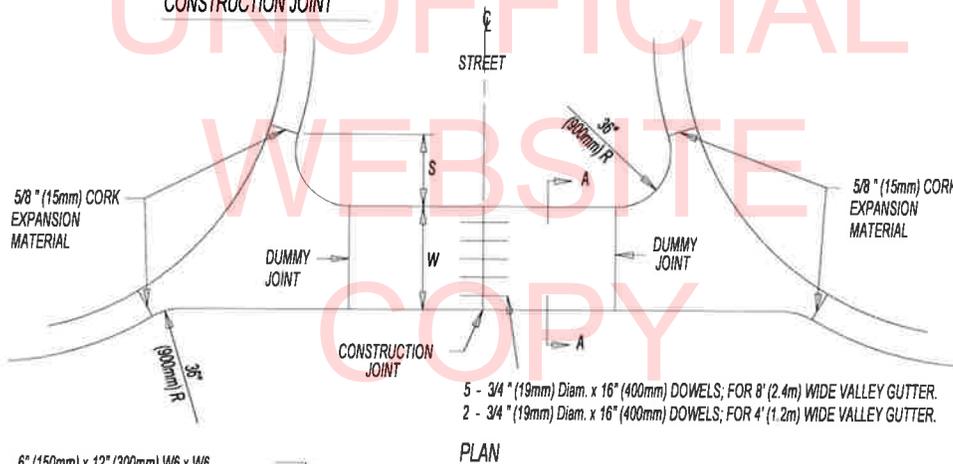
DETAILS SHEET



3/4" (19mm) Diam. x 16" (400mm)
DOWEL 20" (500mm) O.C.

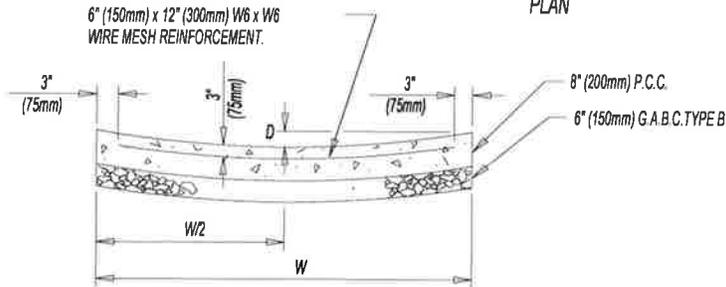
THIS HALF OF DOWEL
PAINTED AND GREASED.

DUMMY JOINT



PLAN

5 - 3/4" (19mm) Diam. x 16" (400mm) DOWELS; FOR 8' (2.4m) WIDE VALLEY GUTTER.
2 - 3/4" (19mm) Diam. x 16" (400mm) DOWELS; FOR 4' (1.2m) WIDE VALLEY GUTTER.



SECTION A-A

P.C.C. VALLEY GUTTER

WIDTH W	DEPTH D	OFFSET S
8' (2.4m)	3" (75mm)	16" (405mm)
4' (1.2m)	1 1/2" (38mm)	23 1/2" (585mm)

DELAWARE DEPARTMENT OF TRANSPORTATION

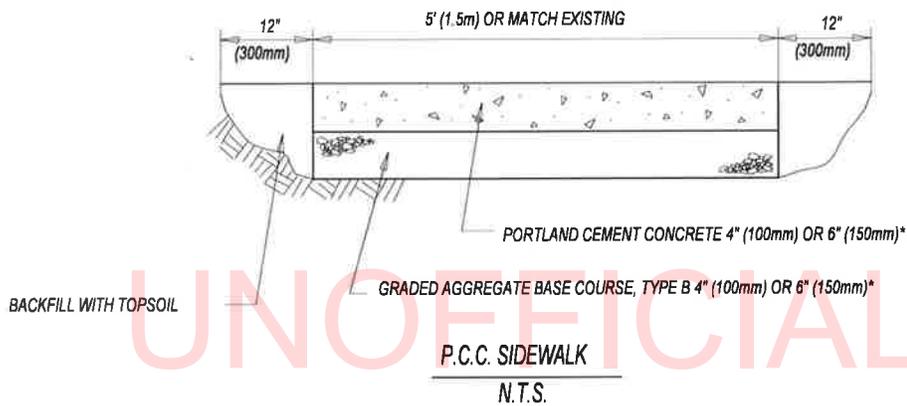
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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

DETAILS SHEET



* NOTE: 6" (150mm) CONCRETE OVER 6" (150mm) GRADED AGGREGATE TO BE USED FOR DRIVEWAY PLACEMENT

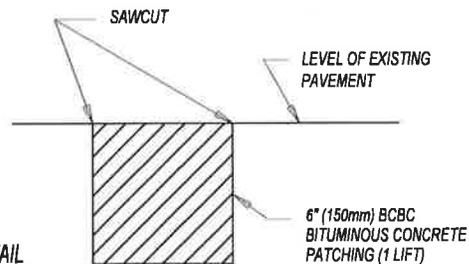
NOTE: ALL EDGES TO BE SAWCUT. CUTTING BY USE OF AIR HAMMERS MAY BE SUBSTITUTED FOR SAWCUTTING IF THE AREA IS TO BE OVERLAID UNDER THE SAME CONTRACT. THERE WILL BE NO PAYMENT FOR AIR HAMMERS. THIS DETAIL SHALL BE USED FOR ALL BITUMINOUS CONCRETE PATCHES UNLESS OTHERWISE SHOWN ON THE PLANS.

IN AREAS WHERE NO BITUMINOUS CONCRETE OVERLAY IS PROPOSED, PLACE 2" (50mm) BITUMINOUS CONCRETE TYPE C PATCHING OVER 6" (150mm) BCBC BITUMINOUS CONCRETE PATCHING.

FOR BITUMINOUS CONCRETE PATCHING, PARTIAL DEPTH, REMOVE EXISTING BITUMINOUS CONCRETE TO DEPTH OF EXISTING AGGREGATE BASE. REPLACE WITH BITUMINOUS CONCRETE TYPE C PATCHING.

BITUMINOUS CONCRETE PATCH DETAIL

N.T.S.



DELAWARE DEPARTMENT OF TRANSPORTATION

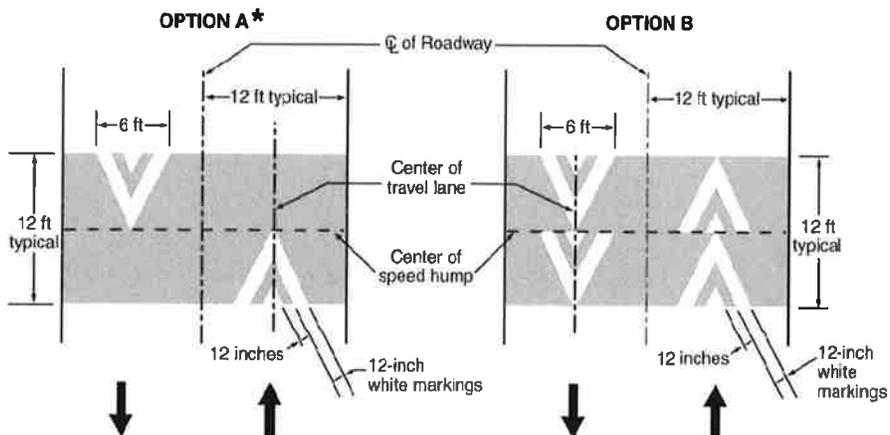
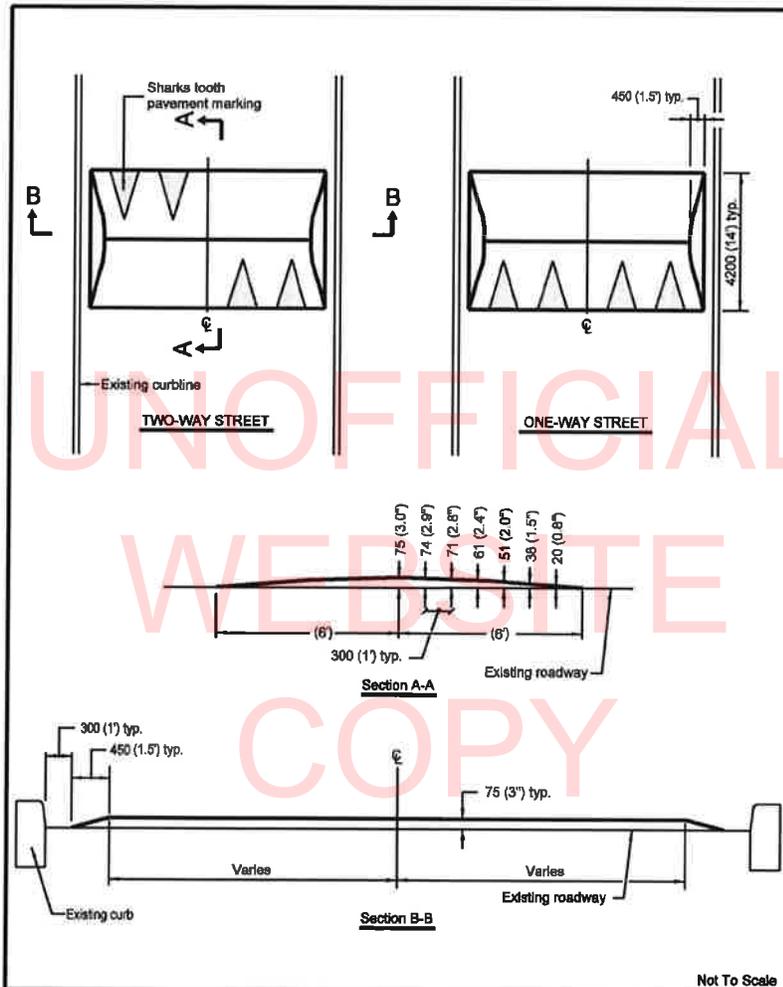
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DETAILS SHEET



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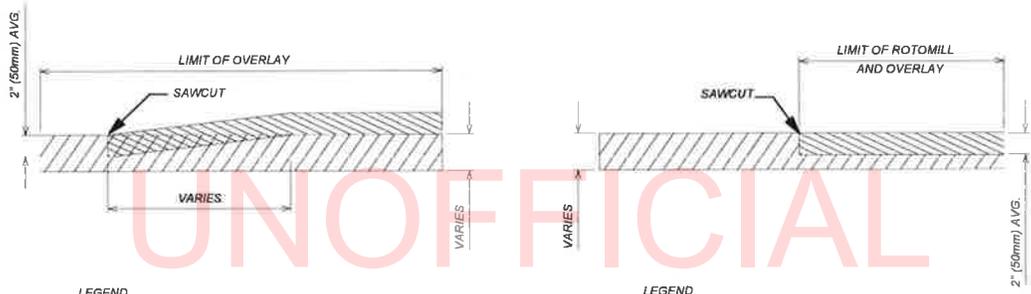
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DETAILS SHEET



LEGEND

- PROPOSED OVERLAY
- EXISTING PAVEMENT
- EXISTING PAVEMENT TO BE REMOVED

LEGEND

- PROPOSED FULL WIDTH ROTOMILL AND OVERLAY
- EXISTING PAVEMENT (TO REMAIN)

**BUTT JOINT
FOR OVERLAY SECTION***
PAYMENT UNDER ITEM 762004

**BITUMINOUS CONCRETE JOINT
FOR FULL WIDTH MILL SECTION***
PAYMENT INCIDENTAL TO ITEM 760010, MILLING

BITUMINOUS CONCRETE JOINT DETAIL

NOTE: THE FOLLOWING LENGTHS ARE BASED ON THE POSTED SPEED OF THE ROADWAY: LESS THAN 50MPH = 20 FT PER 1" OF OVERLAY DEPTH
EQUAL TO OR GREATER THAN 50 MPH = 30 FT PER 1" OF OVERLAY DEPTH
AT STOP SIGNS = 15 FT PER 1" OF OVERLAY DEPTH

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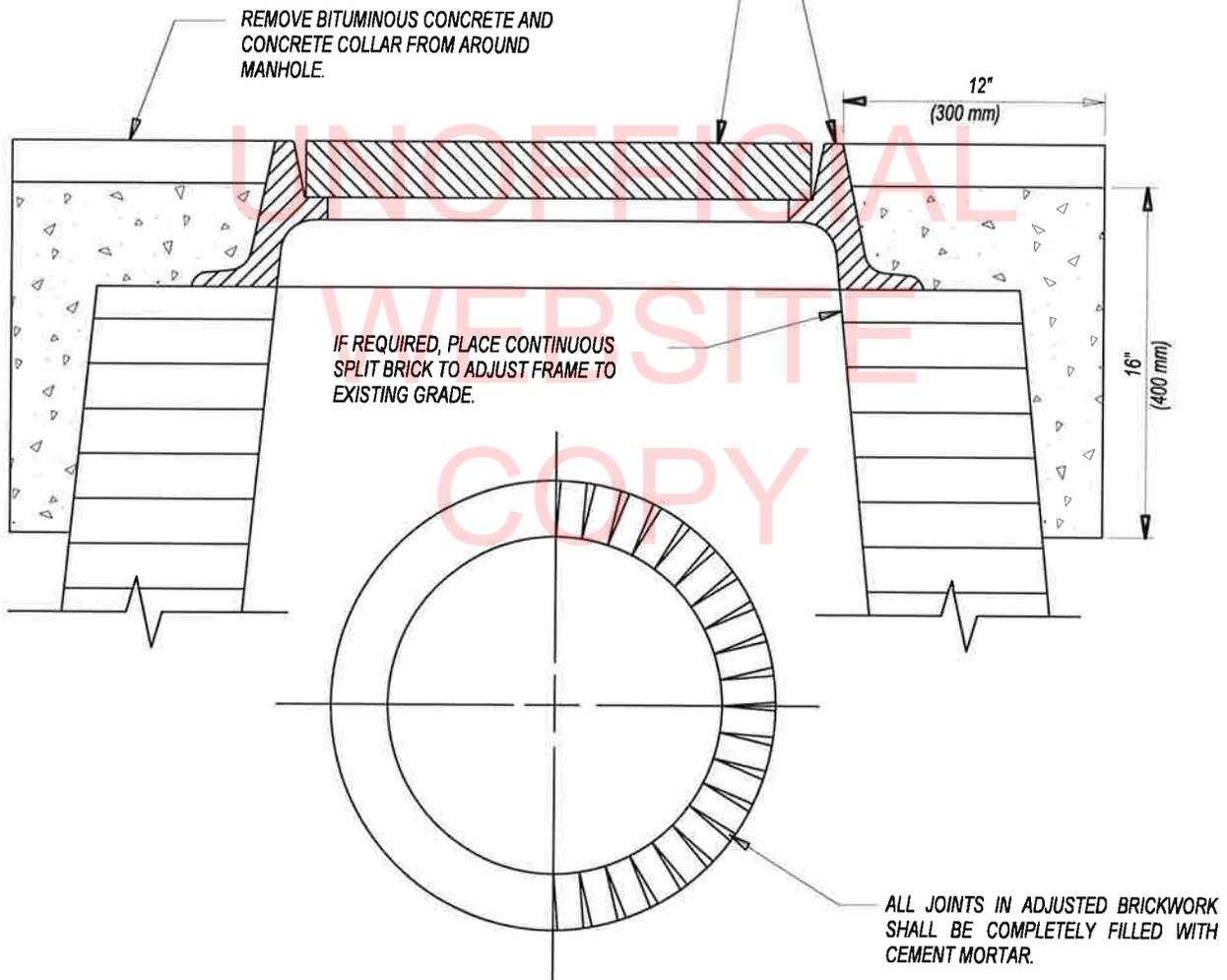
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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

DETAILS SHEET

REMOVE AND DISPOSE OF EXISTING FRAME AND COVER AS DIRECTED BY OWNER IF NOT UTILIZED IN THE ADJUSTMENT.
PLACE NEW OR EXISTING FRAME AND COVER (AS REQUIRED).
TO CORRECT ELEVATION, RECOLLAR AND PLACE BITUMINOUS CONCRETE PATCH. NEW FRAME AND COVER (IF REQUIRED) TO BE PROVIDED BY OWNER.



ADJUSTING AND REPAIRING MANHOLE

N.T.S.

NOTE: MANHOLES IN CONCRETE ROADWAYS SHALL BE SAWCUT FULL DEPTH TO THE SPECIFIED DIMENSION PRIOR TO ANY ADJUSTMENT BEING MADE. THE SAWCUTTING SHALL BE INCIDENTAL TO ITEM 602132.

DELAWARE DEPARTMENT OF TRANSPORTATION

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 1 BUCKLEY - BUCKLEY BOULEVARD FROM PULASKI HIGHWAY TO CHANGE IN HOTMIX @ PAXTON LANE

LENGTH 417.5760 m 1370.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY (CURB WHERE NECESSARY)

COMMENTS:

**2 RAMPS @ PULASKI; 2 RAMPS @ DOUGLAS; 3 RAMPS @ BRANDON; 4 RAMPS @ CALBURN;
3 RAMPS @ PAXTON**

MATERIAL ESTIMATE FOR LOCATION 1

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	306.00	S.Y.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	6.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	4.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	710.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	301.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	6.00	TON
402000	BITUMINOUS CONCRETE PATCHING	4,571.00	SY-IN
501001	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	48.00	S.Y.
504001	CRACK AND JOINT SEALING LESS THAN 3/4 INCH WIDE	180.00	L.F.
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	3.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00	EACH
701014	PORTLAND CEMENT CONCRETE CURB, TYPE 2	20.00	L.F.
701018	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-8	280.00	L.F.
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	460.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	305.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	610.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	140.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	2,800.00	S.F.
710002	ADJUST WATER VALVE BOXES	2.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	11,360.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,284.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	140.00	L.F.
802003	ARROW PANELS TYPE C	5.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	5.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	686.00	HOUR

DELAWARE DEPARTMENT OF TRANSPORTATION

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CANAL

COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 1 **BUCKLEY - BUCKLEY BOULEVARD FROM PULASKI HIGHWAY TO CHANGE
IN HOTMIX @ PAXTON LANE**
LENGTH 417.5760 m 1370.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY (CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ PULASKI; 2 RAMPS @ DOUGLAS; 3 RAMPS @ BRANDON; 4 RAMPS @ CALBURN;
3 RAMPS @ PAXTON

MATERIAL ESTIMATE FOR LOCATION 1

811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	69.00	HOURLY
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1,400.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	575.00	L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	575.00	L.F.
819018	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	1.00	EACH
846001	FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	230.00	L.F.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	3.00	EACH
908001	TOPSOIL	91.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	546.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	546.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 2 CARAVEL FARMS - SAVANNAH DRIVE EAST FROM SAVANNAH DRIVE TO
CUL-DE-SAC
LENGTH 752.8560 m 2470.0000 L.F.
GENERAL IMPROVEMENTS
2" MILL AND OVERLAY

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 2

401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	725.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	50.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,000.00	SY-IN
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	10.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	11,600.00	SY-IN
760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	385.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	600.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	208.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	21.00	HOUR

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 3 CLELAND HEIGHTS - COYNE PLACE FROM CLELAND COURSE TO BANNING ROAD

LENGTH 297.1800 m 975.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ BANNING; 6 RAMPS @ ROBBINS; 2 RAMPS @ CLELAND COURSE

MATERIAL ESTIMATE FOR LOCATION 3

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	420.00	S.Y.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	24.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	49.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	300.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	133.00	TON
402000	BITUMINOUS CONCRETE PATCHING	2,355.00	SY-IN
501001	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	200.00	S.Y.
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00	EACH
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	4.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	8.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	620.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	248.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	496.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	100.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	2,000.00	S.F.
710002	ADJUST WATER VALVE BOXES	6.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	4,800.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,530.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	153.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	384.00	HOURL
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	38.00	HOURL
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	10.00	EACH
908001	TOPSOIL	80.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	480.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	480.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

**LOCATION 4 COLONIAL HEIGHTS - COLONIAL AVENUE FROM LANCASTER AVENUE @
CHANGE IN HOTMIX TO END**
 LENGTH 606.5520 m 1990.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

1 RAMP @ WATSON

MATERIAL ESTIMATE FOR LOCATION 4

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	615.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	96.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	620.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	260.00	TON
402000	BITUMINOUS CONCRETE PATCHING	3,893.00	SY-IN
602100	REPLACE DRAINAGE INLET GRATE(S)	12.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	10.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	8.00	EACH
701018	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-8	100.00	L.F.
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	1,730.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	732.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	1,464.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	10.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	200.00	S.F.
710002	ADJUST WATER VALVE BOXES	7.00	EACH
710370	STEEL CASING PIPE, 4"	160.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	9,920.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	2,595.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	260.00	L.F.
802003	ARROW PANELS TYPE C	10.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	10.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	528.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	53.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	10.00	EACH
908001	TOPSOIL	73.00	TON

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

**LOCATION 4 COLONIAL HEIGHTS - COLONIAL AVENUE FROM LANCASTER AVENUE @
CHANGE IN HOTMIX TO END**
LENGTH 606.5520 m 1990.0000 L.F.
GENERAL IMPROVEMENTS
2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

1 RAMP @ WATSON

MATERIAL ESTIMATE FOR LOCATION 4

908016	PERMANENT GRASS SEEDING, SUBDIVISION	438.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	438.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 5 COLONIAL HEIGHTS - WATSON AVENUE FROM SOUTH DUPONT ROAD TO COLONIAL AVENUE

LENGTH 501.3960 m 1645.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

1 RAMP @ WATSON; 2 RAMPS @ OGLE

MATERIAL ESTIMATE FOR LOCATION 5

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	303.00	S.Y.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	12.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	39.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	580.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	106.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,763.00	SY-IN
501001	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	100.00	S.Y.
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	2.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	570.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	228.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	456.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	30.00	S.F.
705008	PEDESTRIAN CONNECTION, TYPE 1	200.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	400.00	S.F.
710002	ADJUST WATER VALVE BOXES	16.00	EACH
710370	STEEL CASING PIPE, 4"	100.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	9,280.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,155.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	116.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	272.00	HOURLY
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	27.00	HOURLY
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	2.00	EACH
908001	TOPSOIL	43.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	258.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 5 COLONIAL HEIGHTS - WATSON AVENUE FROM SOUTH DUPONT ROAD TO COLONIAL AVENUE

LENGTH 501.3960 m 1645.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

1 RAMP @ WATSON; 2 RAMPS @ OGLE

MATERIAL ESTIMATE FOR LOCATION 5

908020

EROSION CONTROL BLANKET MULCH

258.00 S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 6 CONCORD MANOR - PRINCESS AVENUE FROM PROSPECT AVENUE TO END (HOUSE #100)

LENGTH 138.6840 m 455.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 6

202000	EXCAVATION AND EMBANKMENT	15.00	C.Y.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	89.00	S.Y.
211501	TREE REMOVAL, GREATER THAN 15" TO 25" DIAMETER	1.00	EACH
301001	GRADED AGGREGATE BASE COURSE, TYPE B	6.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	10.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	200.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	27.00	TON
402000	BITUMINOUS CONCRETE PATCHING	488.00	SY-IN
501001	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	50.00	S.Y.
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	110.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	44.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	88.00	S.F.
710002	ADJUST WATER VALVE BOXES	1.00	EACH
710370	STEEL CASING PIPE, 4"	50.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	3,200.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	315.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	32.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	112.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
908001	TOPSOIL	8.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	48.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	48.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 7 DEERHURST - HURST ROAD FROM MURPHY ROAD @ CHANGE IN HOTMIX TO YORK ROAD

LENGTH 341.3760 m 1120.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

ESTIMATE INCLUDES INTERSECTION W/ YORK TO DRIVEWAY @ HOUSE 39

MATERIAL ESTIMATE FOR LOCATION 7

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	199.00	S.Y.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	6.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	27.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	350.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	73.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,185.00	SY-IN
501001	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	50.00	S.Y.
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	4.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	420.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	168.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	336.00	S.F.
710002	ADJUST WATER VALVE BOXES	5.00	EACH
710370	STEEL CASING PIPE, 4"	20.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	5,600.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	780.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	78.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	208.00	HOURLY
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	21.00	HOURLY
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	2.00	EACH
908001	TOPSOIL	20.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	120.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	120.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

**LOCATION 8 HAMILTON PARK - CENTER STREET FROM NEW CASTLE AVENUE TO CUL-
DE-SAC**

LENGTH 256.0320 m 840.0000 L.F.

GENERAL IMPROVEMENTS
2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ NEW CASTLE; 4 RAMPS @ HAMILTON

MATERIAL ESTIMATE FOR LOCATION 8

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	135.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	21.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	295.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	57.00	TON
402000	BITUMINOUS CONCRETE PATCHING	855.00	SY-IN
602100	REPLACE DRAINAGE INLET GRATE(S)	1.00	EACH
602101	REPLACE DRAINAGE INLET FRAME(S)	1.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	380.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	152.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	304.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	80.00	S.F.
705008	PEDESTRIAN CONNECTION, TYPE 1	400.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	1,200.00	S.F.
710002	ADJUST WATER VALVE BOXES	2.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	4,720.00	SY-IN
760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	385.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	570.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	57.00	L.F.
802003	ARROW PANELS TYPE C	5.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	5.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	336.00	HOURL
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	34.00	HOURL
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	6.00	EACH

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

**LOCATION 8 HAMILTON PARK - CENTER STREET FROM NEW CASTLE AVENUE TO CUL-
DE-SAC**

LENGTH 256.0320 m 840.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ NEW CASTLE; 4 RAMPS @ HAMILTON

MATERIAL ESTIMATE FOR LOCATION 8

908001	TOPSOIL	50.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	300.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	300.00	S.Y.

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LOCATION 9 HAMILTON PARK - HAMILTON STREET FROM SOUTH STREET TO NORTH STREET

LENGTH 138.6840 m 455.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ SOUTH; 2 RAMPS @ NORTH

MATERIAL ESTIMATE FOR LOCATION 9

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	64.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	10.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	190.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	27.00	TON
402000	BITUMINOUS CONCRETE PATCHING	405.00	SY-IN
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	3.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	180.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	72.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	144.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	40.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	800.00	S.F.
710002	ADJUST WATER VALVE BOXES	1.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	3,040.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	270.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	27.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	144.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	14.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	3.00	EACH
908001	TOPSOIL	23.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	138.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	138.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 10 **HOLLOWAY TERRACE - FIRST STREET FROM WEST AVENUE TO CENTRAL AVENUE**

LENGTH 33.5280 m 110.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 10

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	36.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	6.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	40.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	15.00	TON
402000	BITUMINOUS CONCRETE PATCHING	225.00	SY-IN
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	100.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	40.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	80.00	S.F.
710002	ADJUST WATER VALVE BOXES	2.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	640.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	150.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	15.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	32.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	3.00	HOUR
908001	TOPSOIL	4.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	24.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	24.00	S.Y.

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LOCATION 11 MCDANIEL CREST - LARGO ROAD FROM WINDLEY DRIVE TO CUL-DE-SAC

LENGTH 330.7080 m 1085.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ WINDLEY; 2 RAMPS @ NAVARRO

MATERIAL ESTIMATE FOR LOCATION 11

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	384.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	60.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	375.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	162.00	TON
402000	BITUMINOUS CONCRETE PATCHING	2,430.00	SY-IN
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	1,080.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	432.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	864.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	10.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	200.00	S.F.
710002	ADJUST WATER VALVE BOXES	1.00	EACH
710370	STEEL CASING PIPE, 4"	50.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	6,000.00	SY-IN
760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	385.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,620.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	162.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	272.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	27.00	HOUR
908001	TOPSOIL	50.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	300.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	300.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH II, 2020 PILOT

LOCATION 12 MIDDLEBORO EAST - ORINDA DRIVE FROM MIDDLEBORO ROAD TO CUL-DE-SAC

LENGTH 298.7040 m 980.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ MIDDLEBORO; 4 RAMPS @ CORVAL

MATERIAL ESTIMATE FOR LOCATION 12

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	267.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	42.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	350.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	113.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,688.00	SY-IN
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	2.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	7.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	750.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	300.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	600.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	60.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	1,200.00	S.F.
710002	ADJUST WATER VALVE BOXES	1.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	5,600.00	SY-IN
760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	385.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,125.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	113.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	256.00	HOURLY
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	26.00	HOURLY
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	2.00	EACH
908001	TOPSOIL	54.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	324.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	324.00	S.Y.

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LOCATION 13 MIDVALE - FOURTH AVENUE FROM PULASKI HIGHWAY TO VALLEY ROAD
LENGTH 111.2520 m 365.0000 L.F.
GENERAL IMPROVEMENTS
2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 13

401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	105.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	135.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,440.00	SY-IN
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00	EACH
710002	ADJUST WATER VALVE BOXES	1.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	1,680.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	288.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	28.00	L.F.
802003	ARROW PANELS TYPE C	2.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	64.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	1.00	EACH

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LOCATION 14 PEPPER RIDGE - TUPELO TURN FROM NORTH TUPELO TURN TO MERMAID BLVD

LENGTH 132.5880 m 435.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 14

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	135.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	21.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	135.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	57.00	TON
402000	BITUMINOUS CONCRETE PATCHING	855.00	SY-IN
602100	REPLACE DRAINAGE INLET GRATE(S)	1.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	5.00	EACH
701023	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	380.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	152.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	304.00	S.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	2,160.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	570.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	57.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	144.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	14.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	5.00	EACH
908001	TOPSOIL	15.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	90.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	90.00	S.Y.

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LOCATION 15 WILTON - WEDGEFIELD CIRCLE FROM ESTATES DRIVE TO ESTATES DRIVE
LENGTH 295.6560 m 970.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ ESTATES; 4 RAMPS @ BERKS; 2 RAMPS @ ESTATES

MATERIAL ESTIMATE FOR LOCATION 15

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	303.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	39.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	300.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	106.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,763.00	SY-IN
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	6.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	570.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	228.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	456.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	100.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	2,000.00	S.F.
710002	ADJUST WATER VALVE BOXES	1.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	4,800.00	SY-IN
760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	195.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,155.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	116.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	272.00	HOURLY
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	27.00	HOURLY
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	250.00	S.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	250.00	S.F.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	2.00	EACH
908001	TOPSOIL	40.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	240.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	240.00	S.Y.

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CONTRACT QUANTITIES SUMMARY SHEET

202000	EXCAVATION AND EMBANKMENT	15.00	C.Y.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	3,256.00	S.Y.
211501	TREE REMOVAL, GREATER THAN 15" TO 25" DIAMETER	1.00	EACH
301001	GRADED AGGREGATE BASE COURSE, TYPE B	54.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	424.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	5,275.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	1,437.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	191.00	TON
402000	BITUMINOUS CONCRETE PATCHING	24,916.00	SY-IN
501001	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	448.00	S.Y.
504001	CRACK AND JOINT SEALING LESS THAN 3/4 INCH WIDE	180.00	L.F.
602100	REPLACE DRAINAGE INLET GRATE(S)	14.00	EACH
602101	REPLACE DRAINAGE INLET FRAME(S)	1.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	35.00	EACH
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	11.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	56.00	EACH
701014	PORTLAND CEMENT CONCRETE CURB, TYPE 2	20.00	L.F.
701018	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-8	380.00	L.F.
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	6,970.00	L.F.
701023	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	380.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	3,101.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	6,202.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	570.00	S.F.
705008	PEDESTRIAN CONNECTION, TYPE 1	600.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	10,800.00	S.F.
710002	ADJUST WATER VALVE BOXES	46.00	EACH
710370	STEEL CASING PIPE, 4"	380.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	84,400.00	SY-IN

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CONTRACT QUANTITIES SUMMARY SHEET

760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	1,735.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	14,007.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	1,354.00	L.F.
763000	INITIAL EXPENSE/DE-MOBILIZATION	LUMP	SUM
801500	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP	SUM
802003	ARROW PANELS TYPE C	22.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	22.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	3,918.00	HOURL
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	391.00	HOURL
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1,650.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	575.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	250.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	575.00	L.F.
819018	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	1.00	EACH
846001	FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	230.00	L.F.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	46.00	EACH
908001	TOPSOIL	551.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	3,306.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	3,306.00	S.Y.