

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
MAINTENANCE AND OPERATIONS
CONSTRUCTION PLANS AND SPECIFICATIONS FOR

COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

CONTRACT NUMBER - T202004901.01

PRIMAVERA ID - 20-04901

FEDERAL AID NUMBER - NONE

COUNTY: NEW CASTLE

PLANS PREPARED BY

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DESIGNER

DESIGNER

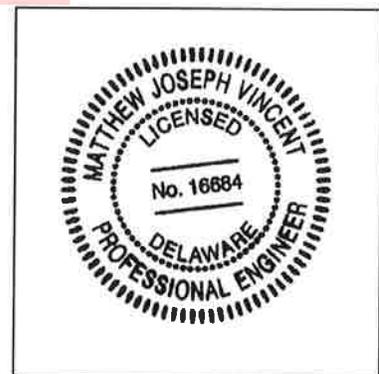
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DELDOT - GE IV/PROJECT MANAGER

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

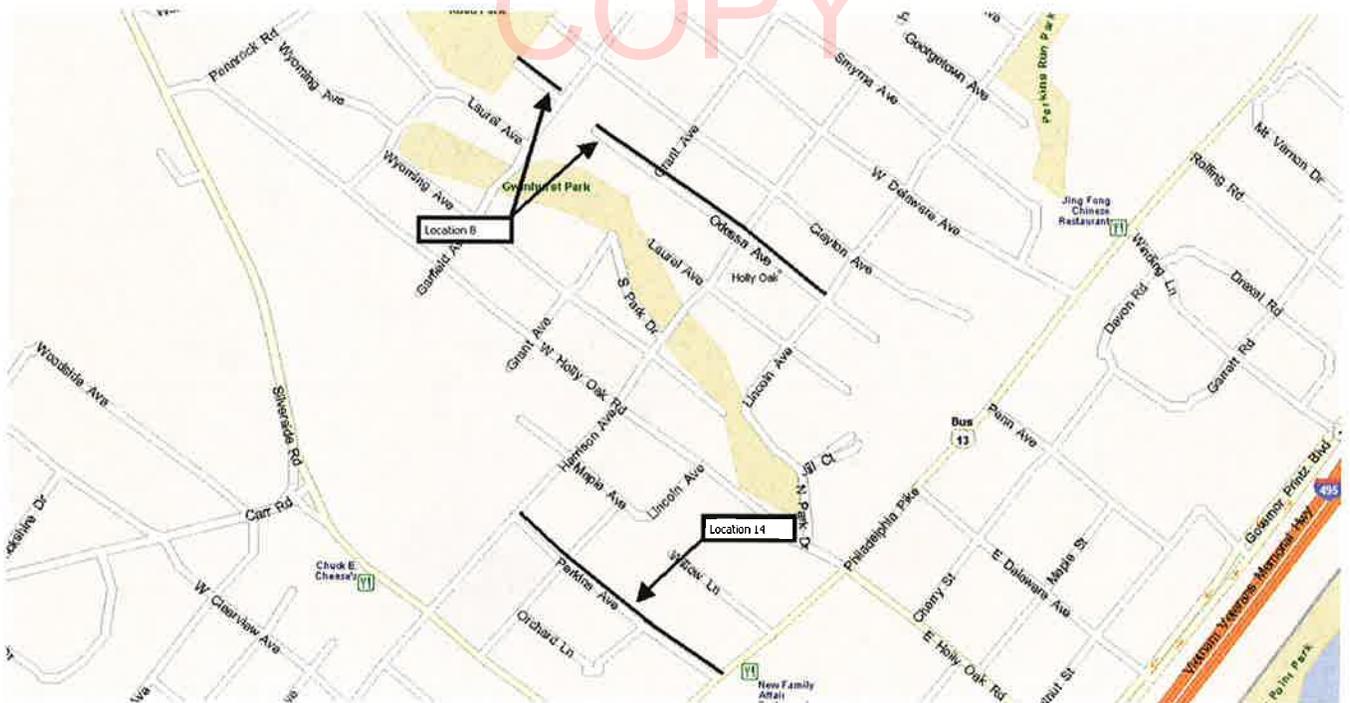
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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

LOCATION MAP



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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

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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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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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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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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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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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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- 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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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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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.

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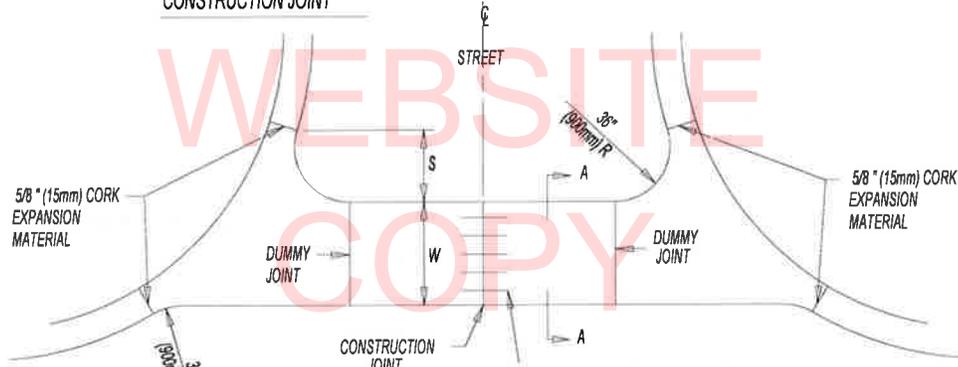
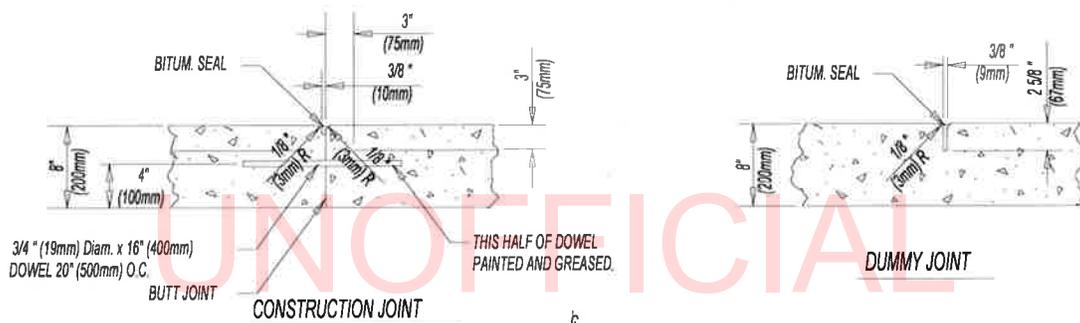
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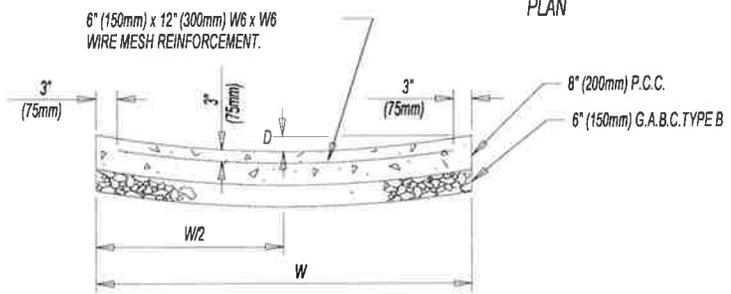
CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

DETAILS SHEET



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.

PLAN



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

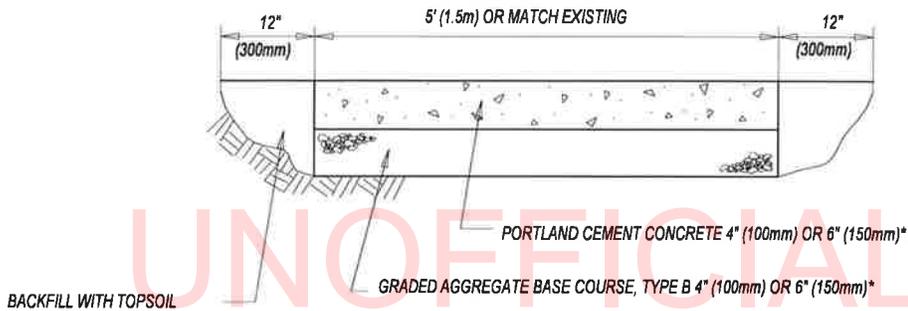
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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

DETAILS SHEET



P.C.C. SIDEWALK

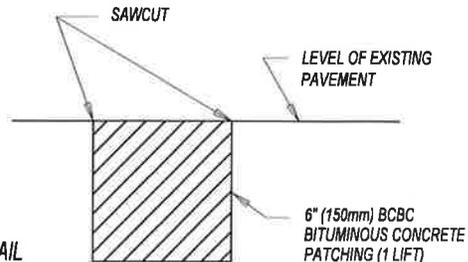
N.T.S.

* 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

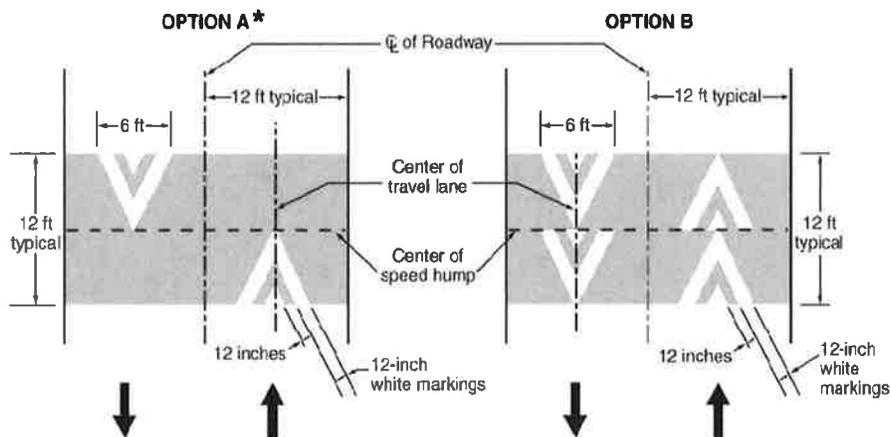
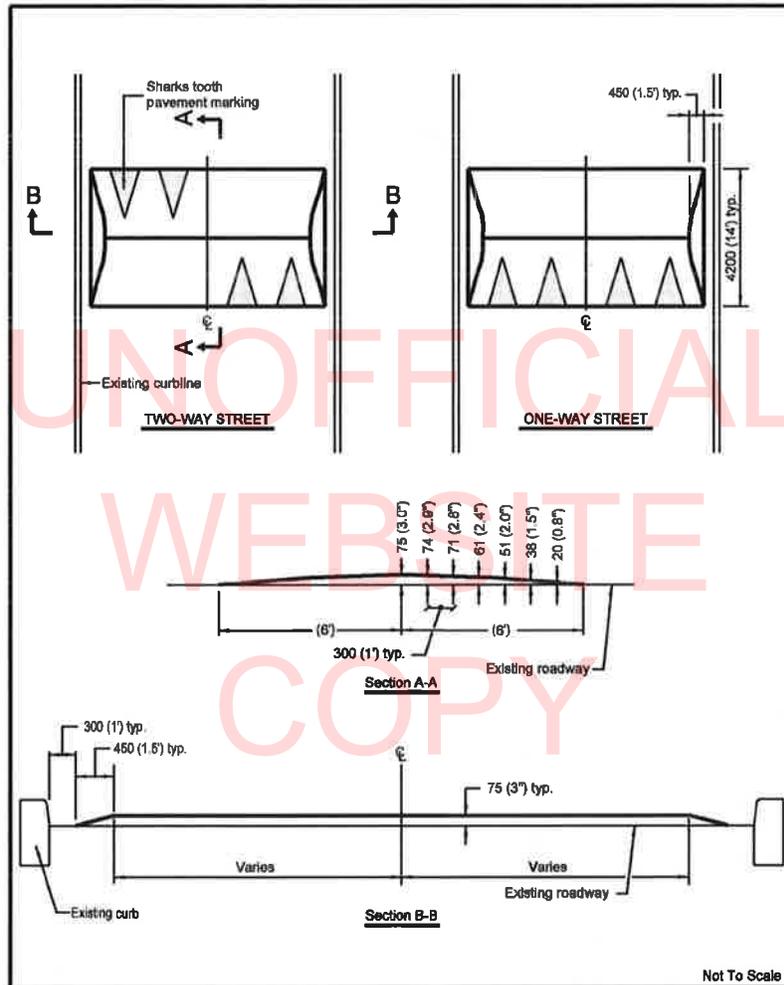
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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

DETAILS SHEET



DELAWARE DEPARTMENT OF TRANSPORTATION

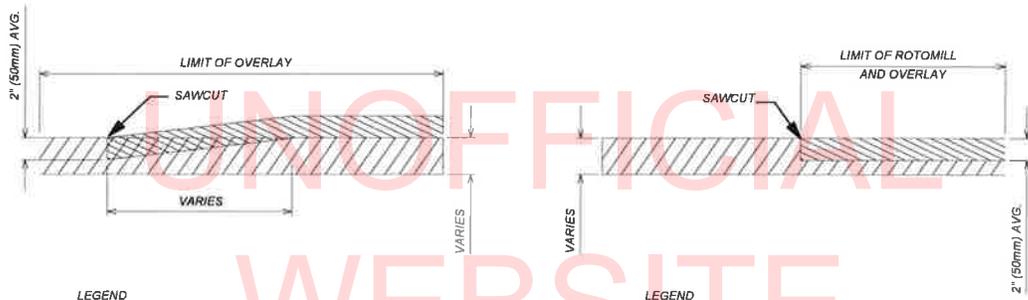
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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

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

DELAWARE DEPARTMENT OF TRANSPORTATION

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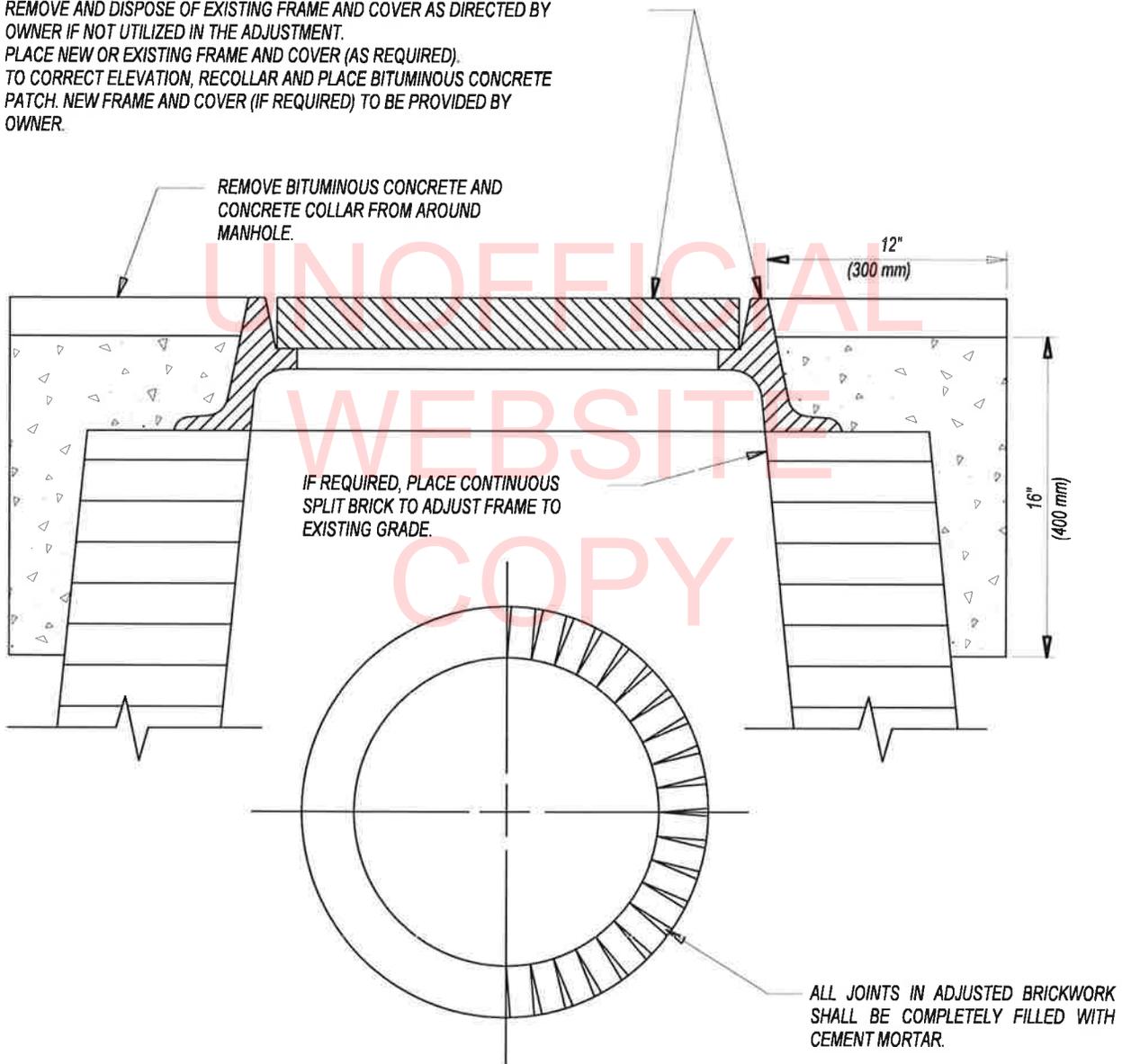
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CONTRACT IS FOR VARIOUS LOCATIONS THROUGHOUT NEW CASTLE COUNTY.

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.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 1 BELLEFONTE - BELLEVUE AVENUE FROM PROSPECT AVENUE TO CUL-DE-SAC
LENGTH 236.2200 m 775.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:
 NEED TOWN AGREEMENT

MATERIAL ESTIMATE FOR LOCATION 1

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	153.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	24.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	240.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	64.00	TON
402000	BITUMINOUS CONCRETE PATCHING	965.00	SY-IN
602100	REPLACE DRAINAGE INLET GRATE(S)	8.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	8.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	6.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	420.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	172.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	344.00	S.F.
710002	ADJUST WATER VALVE BOXES	3.00	EACH
710370	STEEL CASING PIPE, 4"	30.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	3,840.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	644.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	64.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	192.00	HOURL
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	19.00	HOURL
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	8.00	EACH
908001	TOPSOIL	17.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	102.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	102.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

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CANAL

COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 2 BELLEFONTE - EUCLID AVENUE FROM RODMAN ROAD TO PROSPECT AVENUE
LENGTH 601.9800 m 1975.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ MAPLE - NEED TOWN AGREEMENT

MATERIAL ESTIMATE FOR LOCATION 2

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	391.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	61.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	610.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	165.00	TON
402000	BITUMINOUS CONCRETE PATCHING	2,475.00	SY-IN
602100	REPLACE DRAINAGE INLET GRATE(S)	13.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	16.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	7.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	1,100.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	440.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	880.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	20.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	400.00	S.F.
710002	ADJUST WATER VALVE BOXES	4.00	EACH
710370	STEEL CASING PIPE, 4"	30.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	9,760.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,650.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	165.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	480.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	48.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	16.00	EACH
908001	TOPSOIL	52.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	312.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	312.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 3 BELLEFONTE - GROVE AVENUE FROM BRANDYWINE BLVD @ CHANGE IN HOTMIX TO FAIRVIEW AVENUE

LENGTH 144.7800 m 475.0000 L.F.

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

COMMENTS:
NEED TOWN AGREEMENT

MATERIAL ESTIMATE FOR LOCATION 3

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	142.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	22.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	160.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	60.00	TON
402000	BITUMINOUS CONCRETE PATCHING	900.00	SY-IN
602100	REPLACE DRAINAGE INLET GRATE(S)	3.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	3.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	400.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	160.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	320.00	S.F.
710370	STEEL CASING PIPE, 4"	20.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	2,560.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	600.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	60.00	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	144.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	14.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	3.00	EACH
908001	TOPSOIL	16.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	96.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	96.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 4 BELLEFONTE - PROSPECT AVENUE FROM RIVER ROAD TO ROSEDALE AVENUE
LENGTH 374.9040 m 1230.0000 L.F.
GENERAL IMPROVEMENTS
2" MILL AND OVERLAY (CURB WHERE NECESSARY)

COMMENTS:
 NEED TOWN AGREEMENT

MATERIAL ESTIMATE FOR LOCATION 4

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	245.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	38.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	390.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	104.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,553.00	SY-IN
602100	REPLACE DRAINAGE INLET GRATE(S)	4.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	4.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	690.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	276.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	552.00	S.F.
710370	STEEL CASING PIPE, 4"	200.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	6,240.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,035.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	104.00	L.F.
802003	ARROW PANELS TYPE C	4.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	240.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	24.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	18.00	S.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	18.00	S.F.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	4.00	EACH
908001	TOPSOIL	28.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	168.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	168.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 5 BELLEFONTE - ROSEDALE AVENUE FROM RODMAN ROAD TO PROSPECT AVENUE

LENGTH 618.7440 m 2030.0000 L.F.

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

COMMENTS:

2 RAMPS @ RODMAN; 4 RAMPS @ MAPLE; 1 RAMP @ MARION - BELLEFONTE INTERSECTION RECENTLY PAVED (SKIP)

MATERIAL ESTIMATE FOR LOCATION 5

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	594.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	93.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	685.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	251.00	TON
402000	BITUMINOUS CONCRETE PATCHING	3,758.00	SY-IN
602100	REPLACE DRAINAGE INLET GRATE(S)	9.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	9.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	9.00	EACH
701013	PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	10.00	L.F.
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	1,670.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	668.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	1,336.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	70.00	S.F.
705008	PEDESTRIAN CONNECTION, TYPE 1	400.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	1,000.00	S.F.
710002	ADJUST WATER VALVE BOXES	16.00	EACH
710370	STEEL CASING PIPE, 4"	500.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	10,960.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	2,505.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	251.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	560.00	HOURLY
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	56.00	HOURLY
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	9.00	EACH
908001	TOPSOIL	95.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	570.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 5 BELLEFONTE - ROSEDALE AVENUE FROM RODMAN ROAD TO PROSPECT AVENUE
LENGTH 618.7440 m 2030.0000 L.F.
GENERAL IMPROVEMENTS
2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

2 RAMPS @ RODMAN; 4 RAMPS @ MAPLE; 1 RAMP @ MARION - BELLEFONTE INTERSECTION RECENTLY PAVED (SKIP)

MATERIAL ESTIMATE FOR LOCATION 5

908020

EROSION CONTROL BLANKET MULCH

570.00 S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 6 **BRANDYWOOD - CRENSHAW DRIVE FROM GRUBB ROAD @ CHANGE IN
HOTMIX TO CUL-DE-SAC**
LENGTH 353.5680 m 1160.0000 L.F.
GENERAL IMPROVEMENTS
2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 6

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	359.00	S.Y.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	6.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	52.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	355.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	141.00	TON
402000	BITUMINOUS CONCRETE PATCHING	2,198.00	SY-IN
501001	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	50.00	S.Y.
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	4.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
701014	PORTLAND CEMENT CONCRETE CURB, TYPE 2	170.00	L.F.
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	700.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	348.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	696.00	S.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	5,680.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,455.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	146.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	256.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	26.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	4.00	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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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 7 **CLAYMONT VILLAGE - WILTSHIRE ROAD FROM PHILADELPHIA PIKE @
CHANGE IN HOTMIX TO PALACE AVENUE**

LENGTH 377.9520 m 1240.0000 L.F.

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

COMMENTS:
2 RAMPS @ PALACE

MATERIAL ESTIMATE FOR LOCATION 7

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	364.00	S.Y.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	24.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	50.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	500.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	136.00	TON
401506	SPEED HUMP	54.00	L.F.
402000	BITUMINOUS CONCRETE PATCHING	2,184.00	SY-IN
501001	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	80.00	S.Y.
602100	REPLACE DRAINAGE INLET GRATE(S)	6.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	2.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	6.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	800.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	320.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	640.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	20.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	400.00	S.F.
710002	ADJUST WATER VALVE BOXES	4.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	8,000.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,440.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	144.00	L.F.
802003	ARROW PANELS TYPE C	6.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	6.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	420.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	42.00	HOUR

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 7 **CLAYMONT VILLAGE - WILTSHIRE ROAD FROM PHILADELPHIA PIKE @
CHANGE IN HOTMIX TO PALACE AVENUE**

LENGTH 377.9520 m 1240.0000 L.F.

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

COMMENTS:
2 RAMPS @ PALACE

MATERIAL ESTIMATE FOR LOCATION 7

817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	33.00	S.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	33.00	S.F.
846001	FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	90.00	L.F.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	4.00	EACH
908001	TOPSOIL	46.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	276.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	276.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 8 GWINHURST - ODESSA AVENUE FROM LINCOLN AVENUE TO GARFIELD AVENUE
LENGTH 530.3520 m 1740.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

ESTIMATE FOR ENTIRE LENGTH OF ODESSA INCLUDING CUL-DE-SACS AT EACH END

MATERIAL ESTIMATE FOR LOCATION 8

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	164.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	26.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	535.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	69.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,035.00	SY-IN
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	6.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	460.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	184.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	368.00	S.F.
710002	ADJUST WATER VALVE BOXES	8.00	EACH
710370	STEEL CASING PIPE, 4"	80.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	8,560.00	SY-IN
760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	770.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	690.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	69.00	L.F.
811001	FLAGGER, NEW CASTLE COUNTY STATE	272.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	27.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	6.00	EACH
908001	TOPSOIL	18.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	108.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	108.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 9 HIGH POINT - NANCY ROAD FROM LANGHAM ROAD TO PHILADELPHIA PIKE @ CHANGE IN HOTMIX
LENGTH 118.8720 m 390.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY (CURB WHERE NECESSARY)

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 9

201000	CLEARING AND GRUBBING	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	103.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	16.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	120.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	44.00	TON
402000	BITUMINOUS CONCRETE PATCHING	658.00	SY-IN
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	310.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	124.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	248.00	S.F.
710370	STEEL CASING PIPE, 4"	10.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	1,920.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	440.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	44.00	L.F.
802003	ARROW PANELS TYPE C	4.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	112.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	1.00	EACH
908001	TOPSOIL	12.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	72.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	72.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 10 NORTH HILLS - LENNOX ROAD FROM WOODLAND DRIVE TO WASHINGTON STREET EXT @ CHANGE IN HOTMIX
LENGTH 327.6600 m 1075.0000 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	260.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	41.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	350.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	110.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,643.00	SY-IN
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	7.00	EACH
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	1.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	4.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	730.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	292.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	584.00	S.F.
710370	STEEL CASING PIPE, 4"	60.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	5,600.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,095.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	110.00	L.F.
802003	ARROW PANELS TYPE C	6.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	6.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	256.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	26.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	8.00	EACH
908001	TOPSOIL	30.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	180.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	180.00	S.Y.

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LOCATION 11 **PENN ROSE - THIRTY EIGHTH STREET FROM NORTH MARKET STREET @
CHANGE IN HOTMIX TO END**
LENGTH 266.7000 m 875.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 11

905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	7.00	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 12 RIVERSIDE ADDITION - PRINCETON AVENUE FROM PHILADELPHIA PIKE @
CHANGE IN HOTMIX TO GOVERNOR PRINTZ BLVD**

LENGTH 441.9600 m 1450.0000 L.F.

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

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 12

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	100.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	16.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	500.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	42.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	50.00	TON
401506	SPEED HUMP	69.00	L.F.
402000	BITUMINOUS CONCRETE PATCHING	1,030.00	SY-IN
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
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	280.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	112.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	224.00	S.F.
710002	ADJUST WATER VALVE BOXES	7.00	EACH
710370	STEEL CASING PIPE, 4"	40.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	8,000.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	420.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	42.00	L.F.
802003	ARROW PANELS TYPE C	12.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	12.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	420.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	42.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	33.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	120.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	33.00	S.F.

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LOCATION 12 **RIVERSIDE ADDITION - PRINCETON AVENUE FROM PHILADELPHIA PIKE @
CHANGE IN HOTMIX TO GOVERNOR PRINTZ BLVD**
LENGTH 441.9600 m 1450.0000 L.F.
GENERAL IMPROVEMENTS
2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 12

817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	120.00	L.F.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	3.00	EACH
908001	TOPSOIL	11.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	66.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	66.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2020 PILOT

LOCATION 13 RIVERSIDE ADDITION - YALE AVENUE FROM GOVERNOR PRINTZ BLVD @ CHANGE IN HOTMIX TO END

LENGTH 352.0440 m 1155.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 13

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	71.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	11.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	375.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	35.00	TON
402000	BITUMINOUS CONCRETE PATCHING	450.00	SY-IN
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	4.00	EACH
701013	PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	100.00	L.F.
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	100.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	80.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	160.00	S.F.
710002	ADJUST WATER VALVE BOXES	8.00	EACH
710370	STEEL CASING PIPE, 4"	30.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	6,000.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	300.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	30.00	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	176.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	18.00	HOUR
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	1.00	EACH
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 I, 2020 PILOT

**LOCATION 14 SILVERSIDE HEIGHTS - PERKINS AVENUE FROM PHILADELPHIA PIKE @
CHANGE IN HOTMIX TO HARRISON AVENUE**
 LENGTH 321.5640 m 1055.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

1 RAMP @ LINCOLN

MATERIAL ESTIMATE FOR LOCATION 14

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	263.00	S.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	41.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	350.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	111.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,665.00	SY-IN
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	4.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00	EACH
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	740.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	296.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	592.00	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	6.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	5,600.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,110.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	111.00	L.F.
802003	ARROW PANELS TYPE C	8.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	8.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	224.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	22.00	HOUR
817003	TEMPORARY MARKINGS, PAINT, 4"	110.00	L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	110.00	L.F.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	4.00	EACH
908001	TOPSOIL	35.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	210.00	S.Y.

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**LOCATION 14 SILVERSIDE HEIGHTS - PERKINS AVENUE FROM PHILADELPHIA PIKE @
CHANGE IN HOTMIX TO HARRISON AVENUE**
LENGTH 321.5640 m 1055.0000 L.F.
GENERAL IMPROVEMENTS
2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

1 RAMP @ LINCOLN

MATERIAL ESTIMATE FOR LOCATION 14

908020

EROSION CONTROL BLANKET MULCH

210.00 S.Y.

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CONTRACT QUANTITIES SUMMARY SHEET

201000	CLEARING AND GRUBBING	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	3,344.00	S.Y.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	30.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	512.00	C.Y.
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	5,470.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	1,389.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	50.00	TON
401506	SPEED HUMP	123.00	L.F.
402000	BITUMINOUS CONCRETE PATCHING	21,369.00	SY-IN
501001	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	130.00	S.Y.
602100	REPLACE DRAINAGE INLET GRATE(S)	48.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	64.00	EACH
602131	ADJUSTING AND REPAIRING EXISTING DOUBLE DRAINAGE INLET	14.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	72.00	EACH
701013	PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	110.00	L.F.
701014	PORTLAND CEMENT CONCRETE CURB, TYPE 2	170.00	L.F.
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	8,780.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	3,624.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	7,248.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	120.00	S.F.
705008	PEDESTRIAN CONNECTION, TYPE 1	400.00	S.F.
705009	PEDESTRIAN CONNECTION, TYPE 2, 3, AND/OR 4	2,000.00	S.F.
710002	ADJUST WATER VALVE BOXES	60.00	EACH
710370	STEEL CASING PIPE, 4"	1,040.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	87,520.00	SY-IN
760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	770.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	13,954.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	1,397.00	L.F.

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CONTRACT QUANTITIES SUMMARY SHEET

763000	INITIAL EXPENSE/DE-MOBILIZATION	LUMP	SUM
801500	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP	SUM
802003	ARROW PANELS TYPE C	53.00	EA-DY
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	53.00	EA-DY
811001	FLAGGER, NEW CASTLE COUNTY STATE	3,960.00	HOUR
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	396.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	184.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	330.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	184.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	330.00	L.F.
846001	FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	90.00	L.F.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	78.00	EACH
908001	TOPSOIL	423.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	2,538.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	2,538.00	S.Y.

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