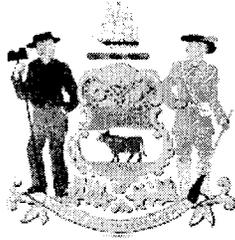


THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201206201

SOUTH I CONSTRUCTION

FEDERAL AID NUMBER- ESTP -2011 (26)

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CONTRACT TITLE- PAVEMENT & REHABILITATION - SOUTH I-I, 2012

UNOFFICIAL
WEBSITE

DATE RECOMMENDED: 7/28/11

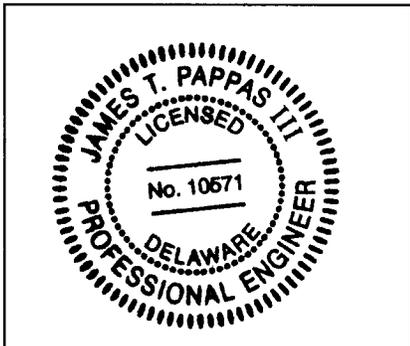
DATE RECOMMENDED: 7/28/11

Jennifer M. Pinkert
GROUP ENGINEER, PAVEMENT MANAGEMENT

Jt F Jf
GROUP ENGINEER CONSTRUCTION - SOUTH I

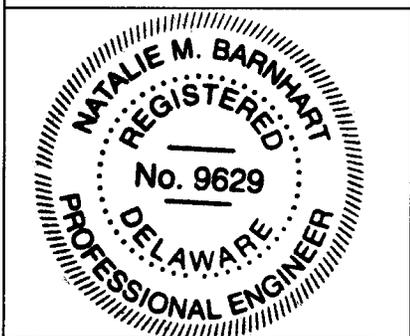
DATE RECOMMENDED: 7-28-11

James T. Pappas III
ASSIST. DIRECTOR DESIGN



DATE RECOMMENDED: 7/28/11

Natalie Barnhart
CHIEF ENGINEER



DEPARTMENT OF TRANSPORTATION

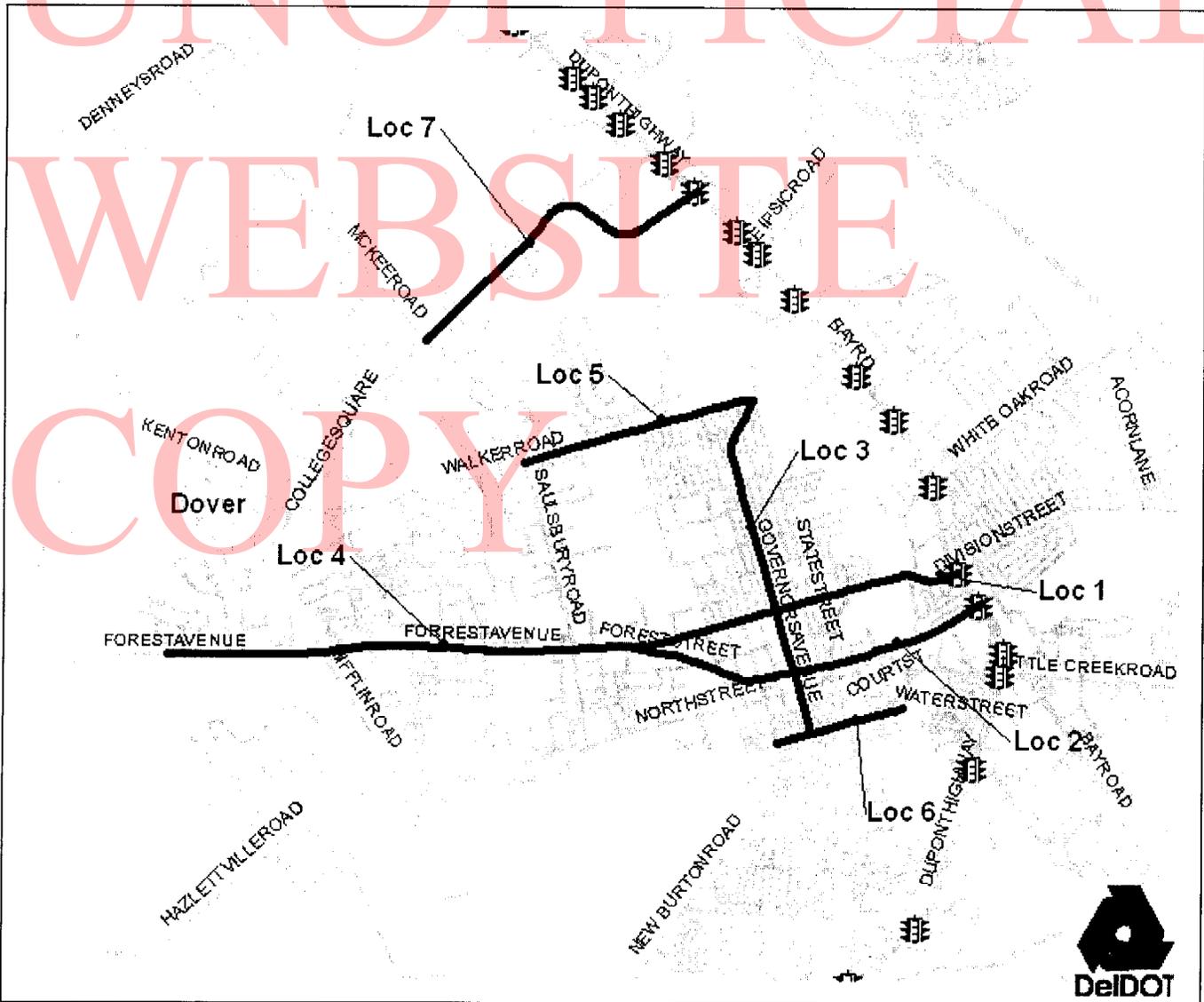
CONTRACT NUMBER- T201206201

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VARIOUS LOCATIONS IN KENT COUNTY

LOCATION MAP

- Location 1: Kings Hwy/Division St from Kings Hwy Southwest to US13
- Location 2: Loockerman St from Rt 8 to US 13
- Location 3: N. Governors Ave from W. Water St to Walker Rd
- Location 4: Forrest Ave/Division St from Begin Curb to Kings Hwy
- Location 5: Walker Rd from Saulsbury Rd to South State St
- Location 6: E. Water St from HMJ West of Queen St to HMJ East of Legislative Hall
- Location 7: College Rd from Saulsbury Rd to US 13



PAVEMENT & REHABILITATION, SOUTH I-I, 2012

GENERAL CONTRACT PLAN NOTES

REVISED 7/11

GENERAL

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2001 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, THE MOST RECENT STANDARD CONSTRUCTION DETAILS, DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THESE PLANS.

2. THE PURPOSE OF THIS CONTRACT IS TO MAKE GENERAL IMPROVEMENTS TO ROADS AND/OR STREETS WITHIN THE DISTRICT HEREIN SPECIFIED. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE LOCATIONS AND/OR QUANTITIES FOR THIS CONTRACT. SUCH LOCATION OR QUANTITY ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. NO ITEM PRICES ARE TO BE RENEGOTIATED DUE TO EITHER AN INCREASE OR DECREASE IN QUANTITY USAGE RESULTING FROM SAID ADDITIONS OR DELETIONS.

3. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS AND BUSINESSES WHO LIVE ADJACENT TO THE WORK ZONE A MINIMUM 48 HR. PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT CONTACT NUMBERS. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THIS CONTRACT. ANY TEMPORARY CLOSURE OF A DRIVEWAY FOR TIE-IN PURPOSES SHALL BE COORDINATED WITH THE ENGINEER AND/OR PROPERTY OWNER IN ADVANCE OF THE CLOSURE.

4. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04 PRIOR TO OR AT THE PRECONSTRUCTION MEETING. DETAILS SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE PLANNED DAYS OF WORK, MULTIPLE CREWS OR SHIFTS, AND SCHEDULED WORKING HOURS. DURING THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/ MANAGER NO LATER THAN NOON OF EACH THURSDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

MAINTENANCE OF TRAFFIC

5. THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULL OPENING ROADWAY TO TRAFFIC.

6. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY STRIPING SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT STRIPING. TEMPORARY PAVEMENT STRIPING MUST MATCH PERMANENT PAVEMENT STRIPING IN ALL REGARDS. TEMPORARY PAVEMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY MARKINGS IN GOOD

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

GENERAL CONTRACT PLAN NOTES

CONDITION SUCH THAT THE PAVEMENT IS PROPERLY DELINEATED AT ALL TIMES. ANY REFRESHING OF THE TEMPORARY MARKINGS WILL BE AT THE CONTRACTOR'S EXPENSE.

7. 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.

8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND ALONG PEDESTRIAN FACILITIES AT ALL TIMES DURING CONSTRUCTION. EARTH, STONE AND GRAVEL SURFACES ARE NOT ACCEPTABLE FOR PROVIDING PEDESTRIAN ACCESS. WHERE PEDESTRIAN ROUTES ARE CLOSED OR BLOCKED, ALTERNATE PEDESTRIAN ACCESS SHALL BE PROVIDED USING TA-28 AND/OR TA-29 OF THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR TO THE SATISFACTION OF THE ENGINEER. PEDESTRIAN DETOUR ROUTES OR ALTERNATE PEDESTRIAN FACILITIES SHALL CONSIST OF ADA COMPLIANT FACILITIES TO THE LEVEL OF WHICH EXISTS ON THE PEDESTRIAN ROUTE. THE COST FOR ANY PROVISIONS SHALL BE INCIDENTAL TO ITEM 763XXX - MAINTENANCE OF TRAFFIC.

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 BUSINESSES AND RESIDENCES AT ALL TIMES.
- PROVIDE PEDESTRIAN ACCESS THROUGH OR AROUND THE WORK ZONE. IF A DETOUR IS CHOSEN THE CONTRACTOR MUST SUBMIT THE DETOUR ROUTE TO THE ENGINEER FOR REVIEW AND APPROVAL. THE DETOUR ROUTE MUST MEET OR EXCEED THE CURRENT CONDITIONS.
- WORK SHOULD BE PHASED SO THAT ALL AREAS OF AN INTERSECTION/SIDEWALK PATH ARE NOT UNDER CONSTRUCTION AT THE SAME TIME UNLESS A CLEAR PATH IS PROVIDED AND IDENTIFIED.
- TRAFFIC CONTROL DEVICES AND OTHER CONSTRUCTION MATERIALS AND FEATURES SHALL NOT INTRUDE INTO THE USABLE WIDTH OF THE SIDEWALK, TEMPORARY PATHWAY OR OTHER PEDESTRIAN FACILITY.
- SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7 FT ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHALL NOT PROJECT MORE THAN 4 IN. INTO ACCESSIBLE PEDESTRIAN ROUTE.

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

GENERAL CONTRACT PLAN NOTES

A SMOOTH, CONTINUOUS HARD SURFACE SHALL BE PROVIDED THROUGHOUT THE ENTIRE LENGTH AND WIDTH OF THE PEDESTRIAN ROUTE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO CURBS OR VERTICAL ELEVATION CHANGES GREATER THAN ¼ IN. IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

9. AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR SHALL BE REQUIRED FOR ALL LOCATIONS SPECIFIED IN THE CONTRACT PLANS. A COPY OF THE CERTIFICATION CARD FOR THE ATSSA TRAFFIC CONTROL SUPERVISOR SHALL BE SUBMITTED AT THE PRECONSTRUCTION MEETING. THE PAPER CERTIFICATE IS NOT ACCEPTABLE.

PAVEMENT MARKINGS

10. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO EXISTING STRIPING LENGTHS, LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, CROSSWALKS AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION. THESE DRAWINGS WILL BE REVIEWED BY THE DEPARTMENT'S TRAFFIC SECTION TO DETERMINE IF ANY CHANGES TO THE FINAL PAVEMENT MARKINGS ARE REQUIRED. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE DEPARTMENT WILL PROVIDE STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXISTED. IF DEPARTMENT FORCES PROVIDE STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR THE LAYOUT COSTS.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHITE EDGE LINES SHALL WRAP AROUND THE RADIUS OF ALL SIDE STREETS AND MAJOR COMMERCIAL ENTRANCES TO A TANGENT POINT. YELLOW CENTERLINES SHALL BE CONTINUOUS AROUND MEDIAN ISLANDS. ALL DOUBLE YELLOW CENTERLINES SHALL BE PLACED IN A 5-6-5 CONFIGURATION (2 EACH, 5" YELLOW STRIPES WITH A 6" GAP BETWEEN). CONTRACT.

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

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

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

GENERAL CONTRACT PLAN NOTES

TRAFFIC SIGNAL NOTES

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

15. TRAFFIC DETECTION LOOPS THAT ARE CURRENTLY 5'x7' SHALL BE REPLACED WITH LOOPS THAT ARE 6'x6' AT THE SAME LOCATION. STOP BAR DETECTION LOOPS SHALL BE THE SAME SIZE AS CURRENTLY EXISTING, AND SHOULD BE PLACED STARTING TWO FEET BEHIND THE STOP BAR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SEPARATE SIGNAL PLANS HAVE BEEN DEVELOPED, THE PLANS SUPERSEDE THIS NOTE.

PROJECT

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

17. THE COST OF CLIPPING BACK THE EDGES OF THE ROADWAY, SHOULDERS, AND THE FIRST 3' OF UNPAVED DRIVEWAY ENTRANCES, PICKING UP AND DISPOSING OF WASTE AND EXCESS MATERIAL, AND CLEANING THE EXISTING PAVEMENT PRIOR TO OVERLAY SHALL BE INCIDENTAL TO SECTION 401(). PREPARING UNPAVED DRIVEWAY ENTRANCES BEYOND THE FIRST 3' SHALL BE PAID UNDER THE APPROPRIATE CONTRACT ITEMS: 202000 AND/OR 30200X.

18. BUTT JOINTS SHALL BE PLACED AT ALL INTERSECTING HOT MIX ROADS AND ANY OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. BUTT JOINTS AT DRAINAGE STRUCTURES NOT TO BE RESURFACED SHALL BE AS PER THE INCLUDED PLAN DETAIL OR LOCATION NOTES. BUTT JOINTS CUT PRIOR TO THE DAY OF THE PAVEMENT OVERLAY SHALL BE RAMPED WITH HOT MIX TRM. IN MILLING AREAS, THERE WILL BE NO SEPARATE PAYMENT FOR BUTT JOINTS. AFTER PAVEMENT MILLING, ALL TRANSVERSE VERTICAL DIFFERENCES, RAISED EDGES OF MANHOLES, CATCH BASINS, WATER VALVE BOXES, ETC...SHALL BE RAMPED WITH HOT-MIX TRM AT A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS WILL NOT BE ALLOWED FOR USE AS RAMPING MATERIAL.

19. TAPER MILLING IS INTENDED FOR MILLING IN THE AREA OF FIXED STRUCTURES (I.E. CURBS GUARDRAIL, ETC.) THE MILLED DEPTH AT THE STRUCTURE SHALL BE THE DEPTH OF THE PROPOSED OVERLAY AND 0" AT A DISTANCE OF +/- 6½' FROM THE STRUCTURE. THE COMPUTED DEPTH FOR PAYMENT PURPOSES IS THE AVERAGE OF THE TWO DEPTHS.

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

21. EXCAVATION FOR P.C.C. CURBS, SIDEWALK OR VALLEY GUTTER SHALL BE INCIDENTAL TO THE BID PRICE FOR THESE RESPECTIVE ITEMS. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BE REMOVED FROM THE CONTRACT AT THE CONTRACTORS EXPENSE. ITEM 732XXX, TOPSOIL, SHALL BE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

GENERAL CONTRACT PLAN NOTES

USED AS BACKFILL MATERIAL FOR CURB AND SIDEWALK AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" IS PRESENT IN MATERIAL USED FOR BACKFILL. AT EACH LOCATION, BACKFILLING SHALL BE PERFORMED IMMEDIATELY UPON REMOVAL OF FORMS FOR CURB OR SIDEWALK WORK. COMPLETE RESTORATION, TOPSOIL, SEEDING, AND REMOVAL OF ALL MATERIALS FOR CURB & GUTTER OR SIDEWALK; SEALING OF VALLEY GUTTERS AND PARGING OF CATCH BASINS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION OF THE ITEM OF WORK. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

22. ALL ADJUSTMENTS SHALL BE MADE NO MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO THE PLACEMENT OF THE FINAL COURSE OF HOT MIX UNLESS OTHERWISE APPROVED BY THE ENGINEER. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

23. ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, IS TO BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FROM THE TIME THE AREA WAS MILLED. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

24. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC. SO THAT EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTHS IS NOT DAMAGED. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER MILLING OPERATIONS SHALL BE INCIDENTAL TO THE MILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE MILLING AND/OR RECLAMATION ITEMS.

25. ALL PORTLAND CEMENT CONCRETE MUST BE RECEIVED FROM AN APPROVED PRODUCTION PLANT UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONLY CALIBRATED VOLUMETRIC CONCRETE TRUCKS WILL BE PERMITTED TO PROVIDE ON-SITE MIXTURES. THIS PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORKING HOURS AND NIGHTTIME RESTRICTED WORK.

26. DRAINAGE INLETS, WHICH ARE 4' GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 708.07 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 710001.

27. THE PORTLAND CEMENT CONCRETE USED WITHIN ITEM 701002 - ADJUST AND REPAIR EXISTING MAN HOLES AND ITEM 750000 - ADJUST WATER VALVE BOX SHALL CONFORM TO THE REQUIREMENTS OF CLASS A CONCRETE AS STATED WITHIN SECTION 503.02 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

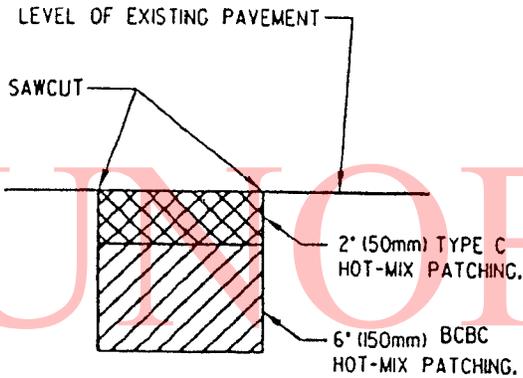
DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL MAINTENANCE VARIOUS LOCATIONS IN KENT COUNTY

DETAILS SHEET

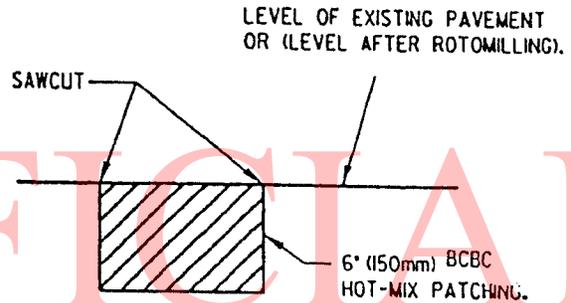


HOT MIX PATCH - NO OVERLAY

N.T.S.

- UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 8' (200mm) WHEN DIRECTED BY THE ENGINEER.

NOTE: PREFERRED EXCAVATION METHOD TO BE BY ROTOMILLING. SAWCUTTING EDGES SHALL BE AS DIRECTED BY ENGINEER AND DEPENDENT ON THE CONDITION LEFT BY THE ROTOMILLING OPERATION. BACKFILL FOR UNDERCUT EXCAVATION SHALL BE SUPERPAVE BCBC PATCH (SEPERATE LIFT). MINIMUM WIDTH OF PATCHING 6' (1.8M). THIS DETAIL SHALL BE USED FOR ALL HOT MIX PATCHES UNLESS OTHERWISE SHOWN ON THE PLANS. ALL HOT MIX TO BE PLACED USING A PAVER.



HOT MIX PATCH - OVERLAY SECTION

N.T.S.

- UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 6' (150mm) WHEN DIRECTED BY THE ENGINEER.

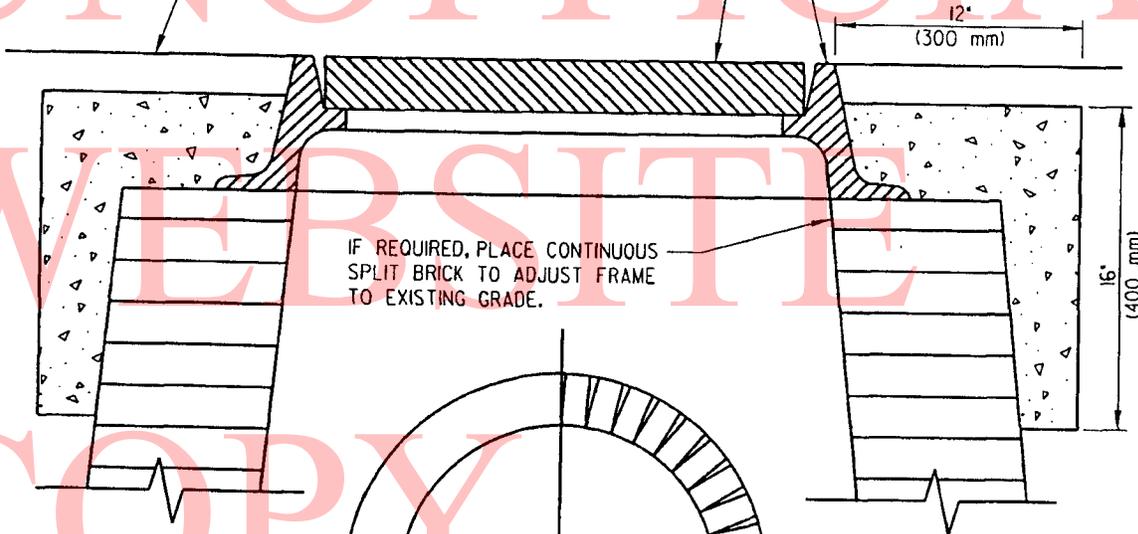
WHEN PCC PATCHING IS REQUIRED ON A COMPOSITE PAVEMENT(HOT-MIX OVER CONCRETE), THE CONTRACTOR MAY ELECT TO ELIMINATE ANY GRADE DIFFERENCE BETWEEN THE TOP OF THE CONCRETE PATCH AND THE TOP OF THE EXISTING HOT-MIX PAVEMENT BY EITHER PLACING HOT-MIX TRM MATERIAL(PAYMENT UNDER ITEM 402000) OR PLACING CONCRETE FLUSH WITH EXISTING HOT-MIX PAVEMENT(ADDITIONAL CONCRETE PAID AS ITEM 503503). IF CONCRETE IS PLACED FLUSH WITH EXISTING HOT-MIX, THE ROTOMILLING OF THE CONCRETE WILL BE PAID FOR AS ROTOMILLING HOT-MIX.

P.C.C. PATCHING NOTES

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 AND RECOLLAR. NEW FRAME AND COVER (IF REQUIRED) TO BE PROVIDED BY OWNER.

REMOVE HOT MIX AND CONCRETE COLLAR FROM AROUND MANHOLE.



IF REQUIRED, PLACE CONTINUOUS SPLIT BRICK TO ADJUST FRAME TO EXISTING GRADE.

ALL JOINTS IN ADJUSTED BRICKWORK SHALL BE COMPLETELY FILLED WITH CEMENT MORTAR.

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 710002.

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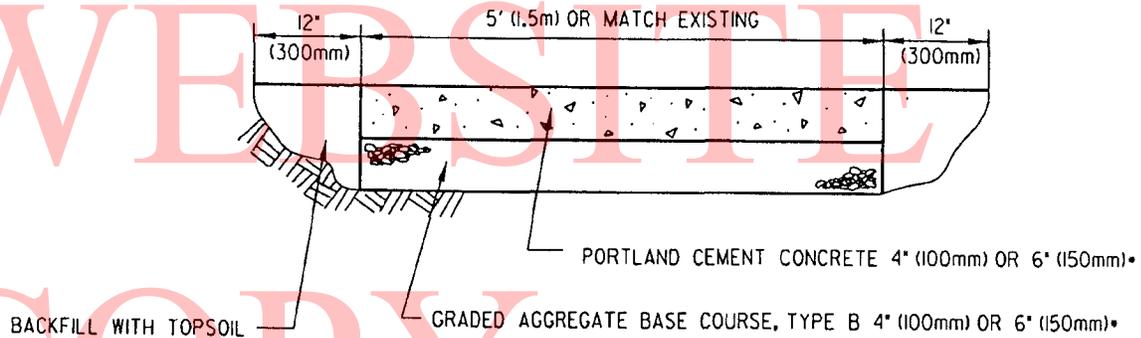
CENTRAL MAINTENANCE VARIOUS LOCATIONS IN KENT COUNTY

DETAILS SHEET

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P.C.C. SIDEWALK
N.T.S.

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

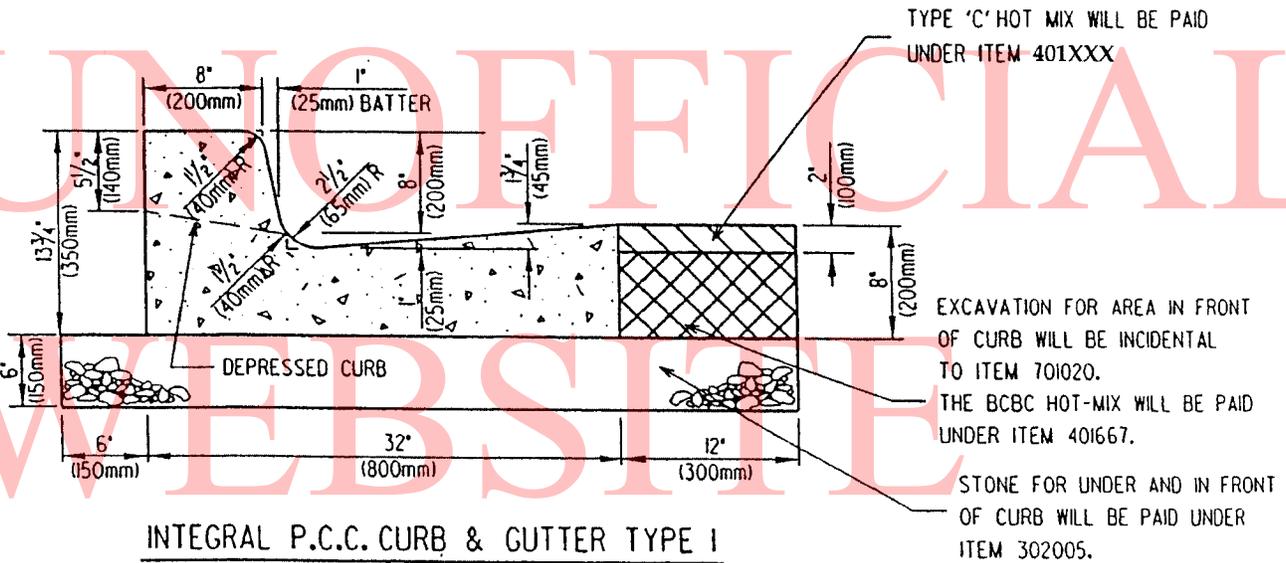
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CENTRAL MAINTENANCE VARIOUS LOCATIONS IN KENT COUNTY

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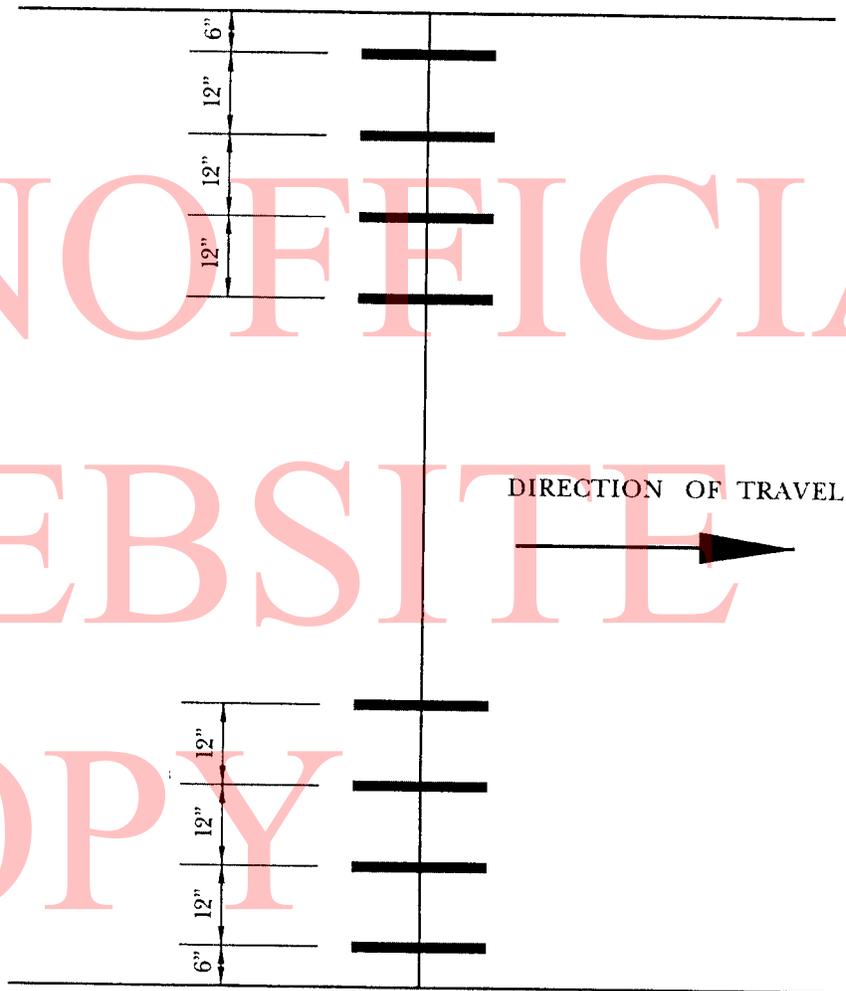
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CENTRAL MAINTENANCE VARIOUS LOCATIONS IN KENT COUNTY

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DOWEL BAR PLACEMENT
FOR P.C.C. PATCHING
N.T.S.

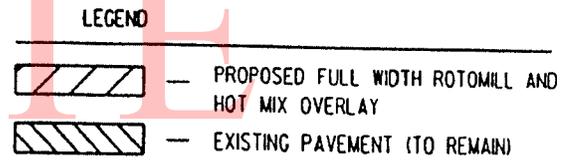
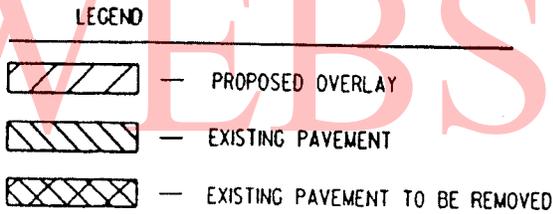
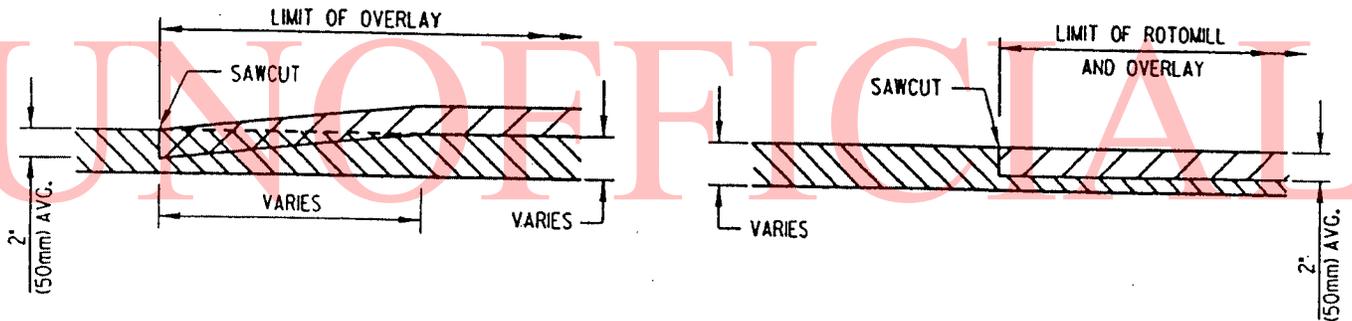
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CENTRAL MAINTENANCE VARIOUS LOCATIONS IN KENT COUNTY

DETAILS SHEET



BUTT JOINT FOR OVERLAY SECTION

PAYMENT UNDER ITEM 76100L

HOT MIX JOINT FOR FULL WIDTH ROTOMILL SECTION

PAYMENT INCIDENTAL TO ITEM 760XXX, ROTOMILLING.

HOT MIX JOINT DETAIL

NOTE: THE FOLLOWING LENGTHS ARE BASED ON THE POSTED SPEED OF THE ROADWAY:
LESS THAN 50 MPH = 20 FT (6m) PER 1" (25mm) OF OVERLAY DEPTH.
EQUAL TO OR GREATER THAN 50 MPH = 30 FT (9.1m) PER 1" (25mm) OF OVERLAY DEPTH.
AT STOP SIGNS = 15 FT (4.6m) PER 1" (25mm) OF OVERLAY DEPTH.

DELAWARE DEPARTMENT OF TRANSPORTATION

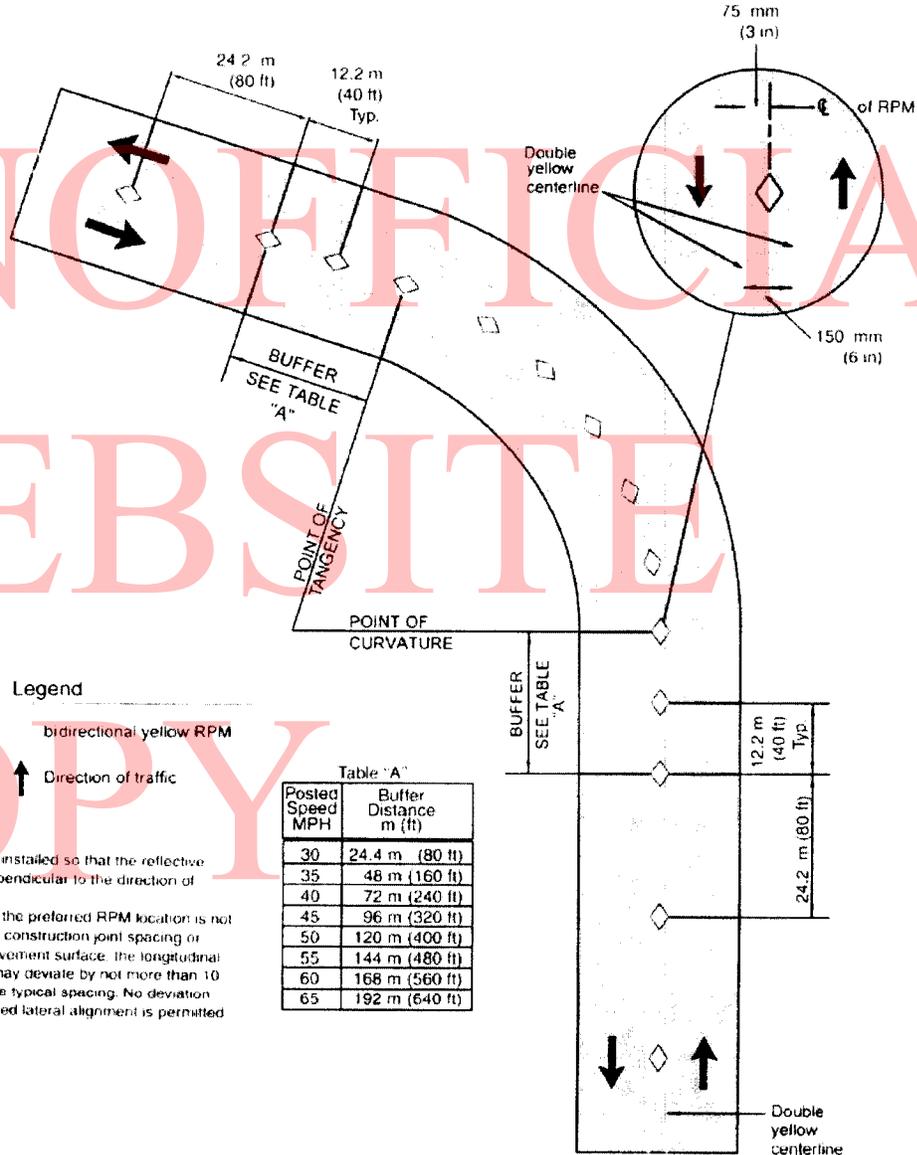
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CENTRAL MAINTENANCE VARIOUS LOCATIONS IN KENT COUNTY

DETAILS SHEET

Figure 3B-13D. Example of Raised Pavement Marker (RPM) Application on Arterial and Other Two Lane Roads (DeIDOT MUTCD Only)



Legend

- ↕ bidirectional yellow RPM
- ↑ Direction of traffic

General Notes

1. RPM's shall be installed so that the reflective element is perpendicular to the direction of traffic.
2. In cases where the preferred RPM location is not practical due to construction joint spacing or deteriorated pavement surface, the longitudinal RPM spacing may deviate by not more than 10 percent from the typical spacing. No deviation from the preferred lateral alignment is permitted.

Table "A"

Posted Speed MPH	Buffer Distance m (ft)
30	24.4 m (80 ft)
35	48 m (160 ft)
40	72 m (240 ft)
45	96 m (320 ft)
50	120 m (400 ft)
55	144 m (480 ft)
60	168 m (560 ft)
65	192 m (640 ft)

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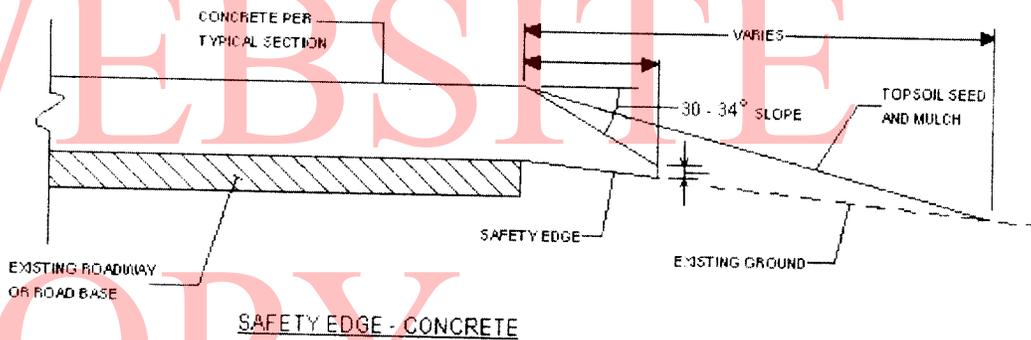
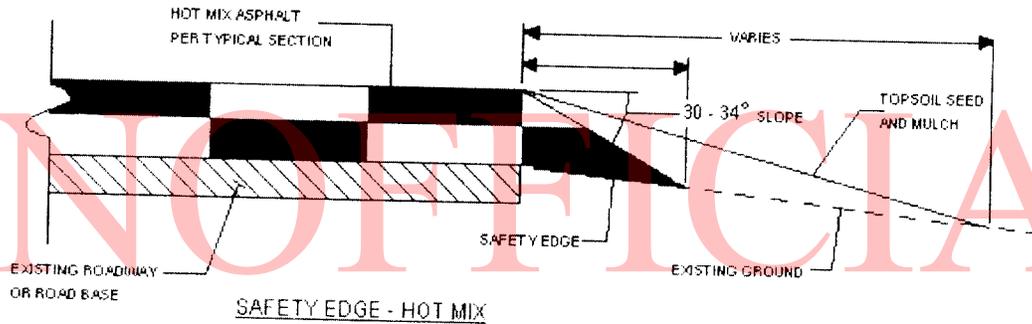
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CENTRAL MAINTENANCE VARIOUS LOCATIONS IN KENT COUNTY

DETAILS SHEET



GENERAL NOTES

1. THE SAFETY EDGE WILL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE WILL BE ADDED TO THE SCREED OF THE PAVING MACHINE.
2. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITION AND TURNOUTS.
3. SITE PREPARATION AND ADDITIONAL EARTHWORK REQUIRED TO CONSTRUCT THE SAFETY EDGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

SAFETY EDGE DETAIL

DELAWARE DEPARTMENT OF TRANSPORTATION

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**CENTRAL
MAINTENANCE**

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 1 **KINGS HWY/DIVISION ST, DE8(K16) - (DOVER) FROM KINGS HWY,
SOUTHWEST(K66) TO US13, DUPONT HWY(K7)**

LENGTH 688.848 m 2260 L.F. **AADT** 16139

GENERAL IMPROVEMENTS

P.C.C. PATCHING, 2" MILLING AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

212001	UNDERCUT EXCAVATION, PATCHING	2.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	21.00 C.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	58.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	66.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	1,330.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	11.00 TON
406002	HOT-MIX PATCHING, CONCRETE	2,688.00 SY-IN
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	96.00 S.Y.
503006	DOWEL BARS	192.00 EACH
503503	** PATCHING CONCRETE	566.00 SY-IN
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	190.00 S.F.
705008	CURB RAMP, TYPE 1	90.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,900.00 S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	20.00 EACH
743003	ARROW PANELS, TYPE C	16.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	64.00 EA-DY
743007	** TRAFFIC OFFICERS	160.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	16.00 EA-DY
744520	CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	4.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	280.00 L.F.
745529	SUPPLY OF 1 1/2" GALVANIZED STEEL CONDUIT	80.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	260.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	80.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	20.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	1,130.00 L.F.
746776	LOOP DETECTOR SPLICE	13.00 EACH

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CONTRACT T201206201

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**CENTRAL
MAINTENANCE**

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 1 **KINGS HWY/DIVISION ST, DE8(K16) - (DOVER) FROM KINGS HWY,
SOUTHWEST(K66) TO US13, DUPONT HWY(K7)**

LENGTH 688.848 m 2260 L.F. AADT 16139

GENERAL IMPROVEMENTS

P.C.C. PATCHING, 2" MILLING AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

746850	POLE BASE, TYPE 4	4.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	1,347.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	10,125.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	2,694.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	5,063.00 L.F.
750000	ADJUST WATER VALVE BOXES	8.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	96.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	22,000.00 SY-IN
762001	SAW CUTTING, HOT MIX	650.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	360.00 L.F.
763621	CONSTRUCTION ENGINEERING, RE-SURFACING	1.00 L.S.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206201

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 1 KINGS HWY/DIVISION ST, DE8(K16) - (DOVER) FROM KINGS HWY, SOUTHWEST(K66)
 TO US13, DUPONT HWY(K7)

COMMENTS:

RECOMMENDED M.O.T. CASE NO. 6 (TRAVEL LANES)
 CASE NO. 2 (SHOUDLERS)

PEDESTRIAN M.O.T: COMPLY WITH NOTE 28 IN THE GENERAL CONTRACT NOTES

NIGHTTIME WORK HOURS: 8:00P - 6:00A, SUNDAY NIGHT THROUGH FRIDAY MORNING

ANY WORK OR ACTIVITIES INCLUDING ADA REQUIREMENTS ASSOCIATED WORK THAT CANNOT
BE COMPLETED DUE TO RIGHT-OF-WAY ISSUES WILL BE DELETED FROM THE CONTRACT.

ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE DEPARTMENT OF
TRANSPORTATION AND BE DELIVERED TO THE MAGNOLIA YARD, AREA 7.
CONTACT AND NOTIFY THE YARD SUPERVISOR, RON GRALESKI, PHONE NO. 697-4402,
1 WEEK PRIOR TO DELIVERY.

DISTANCE TO YARD: APPROX. 7 MILES.

CONTRACTOR WILL HAVE TO OBEY CITY OF DOVER NOISE ORDINANCE. CONTRACTOR MAY BE ALLOWED
TO PERFORM SOME WORK DURING DAYTIME HOURS (IE JACKHAMMERING SIDEWALK). NO ADDITIONAL
COMPENSATION WILL BE MADE FOR CHANGES DUE TO ORDINANCES.

TRAFFIC LOOPS AT:
US 13 @ DIVISION ST
DIVISION ST @ PARK DR

COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206201

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**CENTRAL
MAINTENANCE**

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 2 **LOOCKERMAN ST (K23) - (DOVER) FROM DE8, FORREST AVE(K51) TO US13,
DUPONT HWY(K7)**

LENGTH 2221.992 m 7290 L.F. **AADT** 9046

GENERAL IMPROVEMENTS

HM PATCHING, 2" MILLING AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

302005	GRADED AGGREGATE BASE COURSE, TYPE B	7.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	51.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	4,260.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	37.00 TON
406001	HOT-MIX PATCHING	800.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	80.00 L.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	380.00 S.F.
705008	CURB RAMP, TYPE 1	1,260.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	3,420.00 S.F.
705010	CURB RAMP, TYPE 5	120.00 S.F.
708500	REPLACING CATCH BASIN GRATES	5.00 EACH
708504	REPLACING CATCH BASIN FRAMES	5.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	7.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	23.00 EACH
743003	ARROWPANELS, TYPE C	30.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	121.00 EA-DY
743007	** TRAFFIC OFFICERS	302.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	30.00 EA-DY
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	9.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	240.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	100.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	140.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	3,600.00 L.F.
746776	LOOP DETECTOR SPLICE	36.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	5.00 C.Y.
746847	POLE BASE, TYPE 3	2.00 EACH

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 2 **LOOCKERMAN ST (K23) - (DOVER) FROM DE8, FORREST AVE(K51) TO US13, DUPONT HWY(K7)**

LENGTH 2221.992 m 7290 L.F. AADT 9046

GENERAL IMPROVEMENTS

HM PATCHING, 2" MILLING AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

746850	POLE BASE, TYPE 4	13.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	3,745.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	36,450.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	7,490.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	18,225.00 L.F.
748554	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, PEDESTRIAN SYMBOL	2.00 EACH
750000	ADJUST WATER VALVE BOXES	42.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	38.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	74,520.00 SY-IN
762001	SAW CUTTING, HOT MIX	2,000.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	4.00 L.F.
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00 L.S.
763621	CONSTRUCTION ENGINEERING, RE-SURFACING	1.00 L.S.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206201

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 2 LOOCKERMAN ST (K23) - (DOVER) FROM DE8, FORREST AVE(K51) TO US13, DUPONT HWY(K7)

COMMENTS:

RECOMMENDED M.O.T. CASE NO. 6 (TRAVEL LANES)
 CASE NO. 2 (SHOUDLERS)
CASE NO. 17-A (RAILROAD)

PEDESTRIAN M.O.T: COMPLY WITH NOTE 28 IN THE GENERAL CONTRACT NOTES

NIGHTTIME WORK HOURS: 8:00P - 6:00A, SUNDAY NIGHT THROUGH FRIDAY MORNING

ANY WORK OR ACTIVITIES INCLUDING ADA REQUIREMENTS ASSOCIATED WORK THAT CANNOT BE COMPLETED DUE TO RIGHT-OF-WAY ISSUES WILL BE DELETED FROM THE CONTRACT.

ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE DEPARTMENT OF TRANSPORTATION AND BE DELIVERED TO THE MAGNOLIA YARD, AREA 7. CONTACT AND NOTIFY THE YARD SUPERVISOR, RON GRALESKI, PHONE NO. 697-4402, 1 WEEK PRIOR TO DELIVERY.

DISTANCE TO YARD: APPROX. 7 MILES.

M.O.R. NOTES

NORFOLK SOUTHERN

2 PER DAY (FREIGHT)*

2 PER NIGHT (FREIGHT)*

*NO PASSENGER SERVICE IS INVOLVED.

THE PAVEMENT AND REHABILITATION CONTRACT MILLING AND FINAL OVERLAY WILL TIE INTO THE R/R CROSSING AT THE R.O.W. LIMITS (TYPICALLY AT EXISTING HOT-MIX JOINT IF PRESENT.)

CONTRACTOR WILL HAVE TO OBEY CITY OF DOVER NOISE ORDINANCE. CONTRACTOR MAY BE ALLOWED TO PERFORM SOME WORK DURING DAYTIME HOURS (IE JACKHAMMERING SIDEWALK). NO ADDITIONAL COMPENSATION WILL BE MADE FOR CHANGES DUE TO ORDINANCES.

WHEN INSTALLING CONDUIT UNDER BRICK, CONTRACTOR SHALL REMOVE BRICK AND USE ITEM 745544, REPLACING BRICK AFTERWARDS.

REPLACEMENT AND/OR RESETTING OF EXISTING BRICK CURB RAMPS ARE INCIDENTAL TO ITEM 705009.

SIDEWALK SURFACE DETECTABLE WARNING SYSTEMS WHEN ON BRICK CURB RAMPS SHALL BE LIGHT IN COLOR.

TRAFFIC LOOPS AT:

LOOCKERMAN ST @ QUEEN ST

LOOCKERMAN ST @ NEW ST

LOOCKERMAN ST @ GOVERNORS AVE

LOOCKERMAN ST @ STATE ST

LOOCKERMAN ST @ LEGISLATIVE AVE

US 13 @ LOOCKERMAN ST

DELAWARE DEPARTMENT OF TRANSPORTATION

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**CENTRAL
MAINTENANCE**

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

**LOCATION 3 NORTH GOVERNORS AVE (K3) - (DOVER) FROM WEST WATER ST(K72) TO HMJ
NORTH SIDE OF WALKER RD(K70)**

LENGTH 2270.76 m 7450 L.F. AADT 12111

GENERAL IMPROVEMENTS

P.C.C. PATCHING, 2" MILLING AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

212001	UNDERCUT EXCAVATION, PATCHING	4.00 C.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	270.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	80.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)	3,950.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	32.00 TON
406001	HOT-MIX PATCHING	1,400.00 SY-IN
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	176.00 S.Y.
503006	DOWEL BARS	352.00 EACH
503503	** PATCHING CONCRETE	862.00 SY-IN
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	10.00 S.F.
705008	CURB RAMP, TYPE 1	990.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	6,460.00 S.F.
708500	REPLACING CATCH BASIN GRATES	10.00 EACH
708504	REPLACING CATCH BASIN FRAMES	10.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	21.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	26.00 EACH
732004	TOPSOIL (TON)	205.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	2,483.00 S.Y.
734017	TEMPORARY GRASS SEEDING, DRY GROUND	2,483.00 S.Y.
743003	ARROWPANELS, TYPE C	39.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	155.00 EA-DY
743007	** TRAFFIC OFFICERS	388.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	39.00 EA-DY
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	3.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	60.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	60.00 L.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 3 NORTH GOVERNORS AVE (K3) - (DOVER) FROM WEST WATER ST(K72) TO HMJ
NORTH SIDE OF WALKER RD(K70)

COMMENTS:

RECOMMENDED M.O.T. CASE NO. 6 (TRAVEL LANES)
CASE NO. 2 (SHOUDLERS)

PEDESTRIAN M.O.T: COMPLY WITH NOTE 28 IN THE GENERAL CONTRACT NOTES

□□□□

NIGHTTIME WORK HOURS: 8:00P - 6:00A, SUNDAY NIGHT THROUGH FRIDAY MORNING

ANY WORK OR ACTIVITIES INCLUDING ADA REQUIREMENTS ASSOCIATED WORK THAT CANNOT
BE COMPLETED DUE TO RIGHT-OF-WAY ISSUES WILL BE DELETED FROM THE CONTRACT.

HOT-MIX PATCHING ITEMS ARE FOR REPLACEMENT OF BAD UTILITY PATCHES.

ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE DEPARTMENT OF
TRANSPORTATION AND BE DELIVERED TO THE MAGNOLIA YARD, AREA 7.
CONTACT AND NOTIFY THE YARD SUPERVISOR, RON GRALESKI, PHONE NO. 697-4402,
1 WEEK PRIOR TO DELIVERY.

DISTANCE TO YARD: APPROX. 7 MILES.

*THE REMOVAL OF EXISITING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO
THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE
EXPOSED VOID.

CONTRACTOR WILL HAVE TO OBEY CITY OF DOVER NOISE ORDINANCE. CANTRACTOR MAY BE ALLOWED
TO PERFORM SOME WORK DURING DAYTIME HOURS (IE JACKHAMMERING SIDEWALK). NO ADDITIONAL
COMPENSATION WILL BE MADE FOR CHANGES DUE TO ORDINANCES.

TRAFFIC LOOPS AT:
GOVERNORS AVE @ WATER ST
GOVERNORS AVE @ NORTH ST
GOVERNORS AVE @ DIVISION ST
FOVERNORS AVE @ N. STATE ST

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 4 FORREST AVE/DIVISION ST (K51) - (DOVER) FROM HMJ EAST OF CRANBURY RUN
TO KINGS HWY SOUTHWEST(K66)

COMMENTS:

RECOMMENDED M.O.T. CASE NO. 6 (TRAVEL LANES).
. CASE NO. 2 (SHOUDLERS).
. CASE NO. 17-A (RAILROAD).

PEDESTRIAN M.O.T: COMPLY WITH NOTE 28 IN THE GENERAL CONTRACT NOTES

NIGHTTIME WORK HOURS: 8:00P - 6:00A, SUNDAY NIGHT THROUGH FRIDAY MORNING

ANY WORK OR ACTIVITIES INCLUDING ADA REQUIREMENTS ASSOCIATED WORK THAT CANNOT
BE COMPLETED DUE TO RIGHT-OF-WAY ISSUES WILL BE DELETED FROM THE CONTRACT.

DO NOT MILL AND OVERLAY SAULSBURY RD, TIE INTO NEW PAVEMENT HOT-MIX JOINTS.

ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE DEPARTMENT OF
TRANSPORTATION AND BE DELIVERED TO THE MAGNOLIA YARD, AREA 7.
CONTACT AND NOTIFY THE YARD SUPERVISOR, RON GRALESKI, PHONE NO. 697-4402,
1 WEEK PRIOR TO DELIVERY.

DISTANCE TO YARD: APPROX. 7 MILES.

M.O.R. NOTES

NORFOLK SOUTHERN
. 2 PER DAY (FREIGHT)*
. 2 PER NIGHT (FREIGHT)*

*NO PASSENGER SERVICE IS INVOLVED.

THE PAVEMENT AND REHABILITATION CONTRACT MILLING AND FINAL OVERLAY WILL TIE INTO
THE R/R CROSSING AT THE R.O.W. LIMITS (TYPICALLY AT EXISTING HOT-MIX JOINT IF PRESENT.)

HOT-MIX OVERLAY NOTES*

USE 76-22 (NC) TYPE C WARM-MIX FOR TRAVEL LANES, INTERSECTIONS AND INSIDE TURN LANES.
USE 64-22 (C) TYPE C WARM-MIX FOR OUTSIDE TURN LANES AND SHOULDERS, SEE BELOW;
. A. EASTBOUND SHOULDER FROM HMJ EAST OF CRANBURY RUN TO BRANDYWINE COURTS.
. APPROX. 1800LF.
. B. WESTBOUND SHOULDER FROM NEAR ENTRANCE AT COUNTRY CLUB APT'S TO HMJ EAST
. OF CRANBURY RUN. APPROX. 2800LF.

THE REMOVAL OF EXISITING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO
THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE
EXPOSED VOID.

CONTRACTOR WILL HAVE TO OBEY CITY OF DOVER NOISE ORDINANCE. CANTRACTOR MAY BE ALLOWED
TO PERFORM SOME WORK DURING DAYTIME HOURS (IE JACKHAMMERING SIDEWALK). NO ADDITIONAL
COMPENSATION WILL BE MADE FOR CHANGES DUE TO ORDINANCES.

WHEN INSTALLING CONDUIT UNDER BRICK, CONTRACTOR SHALL REMOVE BRICK AND USE ITEM
745544, REPLACING BRICK AFTERWARDS.

**LOCATION 4 FORREST AVE/DIVISION ST (K51) - (DOVER) FROM HMJ EAST OF CRANBURY RUN
TO KINGS HWY SOUTHWEST(K66)**

EXISTING CONCRETE ISLAND AT FORREST AVE @ MIFFLIN RD IS TO BE REMOVED

TRAFFIC LOOPS AT:

SR 8 @ MIFFLIN RD
SR 8 @ KENTON RD
SR 8 @ INDEPENDENCE BLVD
SR 8 @ MODERN MATURITY CENTER
SR 8 @ SAULSBURY RD
SR 8 @ GIBBS DR/W DOVER ELEMENTARY SCHOOL
DIVISION ST @ KENT AVE
DIVISION ST @ RIDGELEY ST
DIVISION ST @ QUEEN ST
DIVISION ST @ NEW ST
DIVISION ST @ STATE ST

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 5 **WALKER RD (K70) - (DOVER) FROM HMJ @ SAULSBURY/MCKEE RD (K156) TO NORTH STATE ST(K25)**

LENGTH 1448.7144 m 4753 L.F. AADT 11416

GENERAL IMPROVEMENTS

HM PATCHING, 2" MILLING AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 5

302005	GRADED AGGREGATE BASE COURSE, TYPE B	3.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	47.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	2,270.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	20.00 TON
406001	HOT-MIX PATCHING	800.00 SY-IN
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1	20.00 L.F.
705001	P.C.C. SIDEWALK, 4"	80.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	340.00 S.F.
705008	CURB RAMP, TYPE 1	2,430.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,330.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	20.00 EACH
732004	TOPSOIL (TON)	4.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	2.00 S.Y.
734017	TEMPORARY GRASS SEEDING, DRY GROUND	2.00 S.Y.
743003	ARROWPANELS, TYPE C	34.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	136.00 EA-DY
743007	** TRAFFIC OFFICERS	340.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	34.00 EA-DY
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	2.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	8.00 EACH
744523	CONDUIT JUNCTION WELL, TYPE 4, 20" X 42 1/2" PRECAST CONCRETE	2.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	900.00 L.F.
745529	SUPPLY OF 1 1/2" GALVANIZED STEEL CONDUIT	200.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	550.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	330.00 L.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

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**CENTRAL
MAINTENANCE**

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

**LOCATION 5 WALKER RD (K70) - (DOVER) FROM HMJ @ SAULSBURY/MCKEE RD (K156) TO
NORTH STATE ST(K25)**

LENGTH 1448.7144 m 4753 L.F. AADT 11416

GENERAL IMPROVEMENTS

HM PATCHING, 2" MILLING AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 5

746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	1,700.00 L.F.
746776	LOOP DETECTOR SPLICE	17.00 EACH
746847	POLE BASE, TYPE 3	3.00 EACH
746850	POLE BASE, TYPE 4	12.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	3,150.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	23,800.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	6,300.00 S.F.
748502	RAISED/RECESSED PAVEMENT MARKER	60.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	11,900.00 L.F.
750000	ADJUST WATER VALVE BOXES	20.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	15.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	39,911.00 SY-IN
762001	SAW CUTTING, HOT MIX	380.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	5.00 L.F.
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00 L.S.
763621	CONSTRUCTION ENGINEERING, RE-SURFACING	1.00 L.S.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 5 WALKER RD (K70) - (DOVER) FROM HMJ @ SAULSBURY/MCKEE RD (K156) TO
NORTH STATE ST(K25)

COMMENTS:

RECOMMENDED M.O.T. CASE NO. 6 (TRAVEL LANES)
 CASE NO. 2 (SHOUDLERS)
CASE NO. 17-A (RAILROAD)

PEDESTRIAN M.O.T: COMPLY WITH NOTE 28 IN THE GENERAL CONTRACT NOTES

NIGHTTIME WORK HOURS: 8:00P - 6:00A, SUNDAY NIGHT THROUGH FRIDAY MORNING

ANY WORK OR ACTIVITIES INCLUDING ADA REQUIREMENTS ASSOCIATED WORK THAT CANNOT
BE COMPLETED DUE TO RIGHT-OF-WAY ISSUES WILL BE DELETED FROM THE CONTRACT.

REMOVE EXISTING DEPRESSED CURB AND GUTTER ENTRANCE NEAR SAULSBURY RD ON THE NORTH
SIDE OF ROADWAY AND REPLACE WITH UPRIGHT CURB AND GUTTER TO MATCH EXISTING.

ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE DEPARTMENT OF
TRANSPORTATION AND BE DELIVERED TO THE MAGNOLIA YARD, AREA 7.
CONTACT AND NOTIFY THE YARD SUPERVISOR, RON GRALESKI, PHONE NO. 697-4402,
1 WEEK PRIOR TO DELIVERY.

DISTANCE TO YARD: APPROX. 7 MILES.

M.O.R. NOTES

NORFOLK SOUTHERN
 2 PER DAY (FREIGHT)*
 2 PER NIGHT (FREIGHT)*

*NO PASSENGER SERVICE IS INVOLVED.

THE PAVEMENT AND REHABILITATION CONTRACT MILLING AND FINAL OVERLAY WILL TIE INTO
THE R/R CROSSING AT THE R.O.W. LIMITS (TYPICALLY AT EXISTING HOT-MIX JOINT IF PRESENT.)

THE REMOVAL OF EXISITING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO
THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE
EXPOSED VOID.

CONTRACTOR WILL HAVE TO OBEY CITY OF DOVER NOISE ORDINANCE. CANTRACTOR MAY BE ALLOWED
TO PERFORM SOME WORK DURING DAYTIME HOURS (IE JACKHAMMERING SIDEWALK). NO ADDITIONAL
COMPENSATION WILL BE MADE FOR CHANGES DUE TO ORDINANCES.

WALKER RD @ SAULSBURY RD: EXTEND LANDING AREA TO PEDESTRIAN POLE BASE FOR NW AND SE
CORNERS TO ELIMINATE GRASS STRIPS AND MAKE PUSHBUTTONS MORE ACCESSIBLE. THIS SHALL
BE PAID UNDER SIDEWALK ITEM 705001 AND ASSOCIATED ITEMS.

TRAFFIC LOOPS AT:
WALKER RD @ PEAR ST (DOVER HIGH SCHOOL)
WALKER RD @ SILVER LAKE BLVD
N. STATE STREET & GOVERNORS AVE

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**CENTRAL
MAINTENANCE**

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 6 EAST WATER ST(K72) - (DOVER) FROM HMJ WEST OF QUEEN ST TO HMJ EAST OF LEGISLATIVE AVE.

LENGTH 701.04 m 2300 L.F. AADT 5642

GENERAL IMPROVEMENTS

HM PATCHING, 2" MILLING AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 6

401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	80.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	1,122.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	10.00 TON
406001	HOT-MIX PATCHING	1,400.00 SY-IN
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	140.00 S.F.
705008	CURB RAMP, TYPE 1	540.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	760.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	4.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	23.00 EACH
743003	ARROWPANELS, TYPE C	12.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	50.00 EA-DY
743007	** TRAFFIC OFFICERS	124.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	12.00 EA-DY
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	4.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	50.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	30.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	10.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	1,150.00 L.F.
746776	LOOP DETECTOR SPLICE	10.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	1.00 C.Y.
746850	POLE BASE, TYPE 4	5.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	2,496.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	9,200.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	4,992.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	4,600.00 L.F.
748554	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, PEDESTRIAN SYMBOL	1.00 EACH

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 6 **EAST WATER ST(K72) - (DOVER) FROM HMJ WEST OF QUEEN ST TO HMJ EAST OF LEGISLATIVE AVE.**

LENGTH 701.04 m 2300 L.F. AADT 5642

GENERAL IMPROVEMENTS

HM PATCHING, 2" MILLING AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 6

750000	ADJUST WATER VALVE BOXES	17.00 EACH
760507	PROFILE MILLING, HOT-MIX	19,756.00 SY-IN
762001	SAW CUTTING, HOT MIX	630.00 L.F.
763621	CONSTRUCTION ENGINEERING, RE-SURFACING	1.00 L.S.

** DENOTES FIXED PRICE ITEM

COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 6 EAST WATER ST(K72) - (DOVER) FROM HMJ WEST OF QUEEN ST TO HMJ EAST OF LEGISLATIVE AVE.

COMMENTS:

RECOMMENDED M.O.T. CASE NO. 6 (TRAVEL LANES).
. CASE NO. 2 (SHOULDERS).

PEDESTRIAN M.O.T: COMPLY WITH NOTE 28 IN THE GENERAL CONTRACT NOTES

NIGHTTIME WORK HOURS: 8:00P - 6:00A, SUNDAY NIGHT THROUGH FRIDAY MORNING

ANY WORK OR ACTIVITIES INCLUDING ADA REQUIREMENTS ASSOCIATED WORK THAT CANNOT BE COMPLETED DUE TO RIGHT-OF-WAY ISSUES WILL BE DELETED FROM THE CONTRACT.

DO NOT MILL AND OVERLAY STATE ST., TIE INTO EXISTING HOT-MIX JOINTS.

DO NOT MILL AND OVERLAY GOVERNORS AVE, TIE INTO EXISTING NEW PAVEMENT HOT-MIX JOINTS.

TIE INTO NEW HOT-MIX JOINT FROM THE BUS DEPOT AT QUEEN ST.

ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE DEPARTMENT OF TRANSPORTATION AND BE DELIVERED TO THE MAGNOLIA YARD, AREA 7. CONTACT AND NOTIFY THE YARD SUPERVISOR, RON GRALESKI, PHONE NO. 697-4402, 1 WEEK PRIOR TO DELIVERY.

DISTANCE TO YARD: APPROX. 7 MILES.

CONTRACTOR WILL HAVE TO OBEY CITY OF DOVER NOISE ORDINANCE. CONTRACTOR MAY BE ALLOWED TO PERFORM SOME WORK DURING DAYTIME HOURS (IE JACKHAMMERING SIDEWALK). NO ADDITIONAL COMPENSATION WILL BE MADE FOR CHANGES DUE TO ORDINANCES.

WHEN INSTALLING CONDUIT UNDER BRICK, CONTRACTOR SHALL REMOVE BRICK AND USE ITEM 745544, REPLACING BRICK AFTERWARDS.

REPLACEMENT AND/OR RESETTING OF EXISTING BRICK CURB RAMPS ARE INCIDENTAL TO ITEM 705009.

SIDEWALK SURFACE DETECTABLE WARNING SYSTEMS WHEN ON BRICK CURB RAMPS SHALL BE LIGHT IN COLOR.

TRAFFIC LOOPS AT:
WATER ST @ QUEEN ST
GOVERNORS AVE @ WATER ST
STATE ST @ WATER ST

DELAWARE DEPARTMENT OF TRANSPORTATION

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**CENTRAL
MAINTENANCE**

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

**LOCATION 7 COLLEGE RD(K99) - (DOVER) FROM SAULSBURY/MCKEE RD(K156) TO US13,
DUPONT HWY(K2)**

LENGTH 2137.8672 m 7014 L.F. AADT 9689

GENERAL IMPROVEMENTS

HM PATCHING, 2" MILLING (CURBED AREA) AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 7

211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	200.00 L.F.
401696	ENTRANCE, DRIVEWAY AND INTERSECTINGSTREET PAVING SURCHARGE	68.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	23.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	3,930.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	18.00 TON
406001	HOT-MIX PATCHING	400.00 SY-IN
602547	WATERPROOFING BRIDGE DECKS, SIDEWALKS ETC.	2,400.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	180.00 S.F.
705008	CURB RAMP, TYPE 1	450.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	2,470.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	9.00 EACH
720573	ADJUSTING GUARDRAIL HEIGHT	560.00 L.F.
720585	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	4.00 EACH
732004	TOPSOIL (TON)	193.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	2,340.00 S.Y.
734017	TEMPORARY GRASS SEEDING, DRY GROUND	2,340.00 S.Y.
743003	ARROWPANELS, TYPE C	23.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	23.00 EA-DY
744520	CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	2.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	200.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	190.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	20.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	590.00 L.F.
746776	LOOP DETECTOR SPLICE	7.00 EACH
746850	POLE BASE, TYPE 4	3.00 EACH

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**CENTRAL
MAINTENANCE**

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

**LOCATION 7 COLLEGE RD(K99) - (DOVER) FROM SAULSBURY/MCKEE RD(K156) TO US13,
DUPONT HWY(K2)**

LENGTH 2137.8672 m 7014 L.F. AADT 9689

GENERAL IMPROVEMENTS

HM PATCHING, 2" MILLING (CURBED AREA) AND 2" WARM-MIX TYPE C(76-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 7

748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	2,554.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	45,135.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	2,557.00 S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	850.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	29,835.00 L.F.
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	12.00 EACH
750000	ADJUST WATER VALVE BOXES	8.00 EACH
760507	PROFILE MILLING, HOT-MIX	36,000.00 SY-IN
761001	BUTT JOINTS, HOT MIX	600.00 S.Y.
762001	SAW CUTTING, HOT MIX	180.00 L.F.
763621	CONSTRUCTION ENGINEERING, RE-SURFACING	1.00 L.S.

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-I, 2012

LOCATION 7 COLLEGE RD(K99) - (DOVER) FROM SAULSBURY/MCKEE RD(K156) TO US13,
DUPONT HWY(K2)

COMMENTS:

RECOMMENDED M.O.T. CASE NO. 6 (TRAVEL LANES)
 CASE NO. 2 (SHOUDLERS)
CASE NO. 17-A (RAILROAD)

PEDESTRIAN M.O.T: COMPLY WITH NOTE 28 IN THE GENERAL CONTRACT NOTES

NIGHTTIME WORK HOURS: 8:00P - 6:00A, SUNDAY NIGHT THROUGH FRIDAY MORNING

ANY WORK OR ACTIVITIES INCLUDING ADA REQUIREMENTS ASSOCIATED WORK THAT CANNOT
BE COMPLETED DUE TO RIGHT-OF-WAY ISSUES WILL BE DELETED FROM THE CONTRACT.

2" MILLING FROM SAULSBURY/MCKEE RD TO END OF GUARDRAIL(EAST SIDE) OVER CULVERT.

ADJUST EXISTING GUARDRAIL HEIGHT AS DIRECTED BY THE FIELD ENGINEER.

ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE DEPARTMENT OF
TRANSPORTATION AND BE DELIVERED TO THE MAGNOLIA YARD, AREA 7.
CONTACT AND NOTIFY THE YARD SUPERVISOR, RON GRALESKI, PHONE NO. 697-4402,
1 WEEK PRIOR TO DELIVERY.

DISTANCE TO YARD: APPROX. 7 MILES.

M.O.R. NOTES

NORFOLK SOUTHERN
12 PER DAY (FREIGHT)*
12 PER NIGHT (FREIGHT)*

*NO PASSENGER SERVICE IS INVOLVED.

THE PAVEMENT AND REHABILITATION CONTRACT MILLING AND FINAL OVERLAY WILL TIE INTO
THE R/R CROSSING AT THE R.O.W. LIMITS (TYPICALLY AT EXISTING HOT-MIX JOINT IF PRESENT.)

CONTRACTOR WILL HAVE TO OBEY CITY OF DOVER NOISE ORDINANCE. CONTRACTOR MAY BE ALLOWED
TO PERFORM SOME WORK DURING DAYTIME HOURS (IE JACKHAMMERING SIDEWALK). NO ADDITIONAL
COMPENSATION WILL BE MADE FOR CHANGES DUE TO ORDINANCES.

TRAFFIC LOOPS AT:
SAULSBURY RD @ COLLEGE RD
US 13 @ COLLEGE RD

LOCATION 7 - COLLEGE ROAD GOES OVER BRIDGE 2-0069A AT FORK BRANCH. THIS BRIDGE
IS A PRESTRESSED CONCRETE BEAM STRUCTURE WITH ASPHALT PLACED DIRECTLY ON BEAMS.
TAKE CARE NOT TO DAMAGE BEAMS DURING MILLING OPERATION. REMOVE ALL HOT MIX FROM
BRIDGE DECK AND PLACE A WATERPROOFING MEMBRANE (602547) PRIOR TO PLACING HOT-MIX
OVERLAY.

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL PAVEMENT & REHABILITATION, SOUTH I-I, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	200.00 L.F.
212001	UNDERCUT EXCAVATION, PATCHING	6.00 C.Y.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	32.00 TON
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	21.00 C.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	939.00 TON
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	1,934.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	347.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	25,272.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	214.00 TON
406001	HOT-MIX PATCHING	5,600.00 SY-IN
406002	HOT-MIX PATCHING, CONCRETE	2,688.00 SY-IN
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	272.00 S.Y.
503006	DOWEL BARS	544.00 EACH
503503	** PATCHING CONCRETE	1,428.00 SY-IN
602547	WATERPROOFING BRIDGE DECKS, SIDEWALKS ETC.	2,400.00 S.F.
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	180.00 L.F.
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1	20.00 L.F.
705001	P.C.C. SIDEWALK, 4"	680.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	2,370.00 S.F.
705008	CURB RAMP, TYPE 1	10,260.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	27,550.00 S.F.
705010	CURB RAMP, TYPE 5	185.00 S.F.
708500	REPLACING CATCH BASIN GRATES	15.00 EACH
708504	REPLACING CATCH BASIN FRAMES	15.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	41.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	161.00 EACH
720573	ADJUSTING GUARDRAIL HEIGHT	560.00 L.F.
720585	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	4.00 EACH

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL PAVEMENT & REHABILITATION, SOUTH I-I, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

732004	TOPSOIL (TON)	418.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	5,189.00 S.Y.
734017	TEMPORARY GRASS SEEDING, DRY GROUND	5,189.00 S.Y.
743003	ARROWPANELS, TYPE C	226.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	98.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	816.00 EA-DY
743007	** TRAFFIC OFFICERS	2,038.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	226.00 EA-DY
743051	** FLAGGER, KENT COUNTY, STATE	4,346.00 HOUR
743063	** FLAGGER, KENT COUNTY, STATE, OVERTIME	652.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	26.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	16.00 EACH
744523	CONDUIT JUNCTION WELL, TYPE 4, 20" X 42 1/2" PRECAST CONCRETE	2.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	2,280.00 L.F.
745529	SUPPLY OF 1 1/2" GALVANIZED STEEL CONDUIT	280.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	1,000.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	370.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	1,020.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	16,590.00 L.F.
746776	LOOP DETECTOR SPLICE	184.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	9.00 C.Y.
746847	POLE BASE, TYPE 3	5.00 EACH
746850	POLE BASE, TYPE 4	64.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	29,596.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	291,560.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	56,641.00 S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	1,650.00 L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	303.00 EACH

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CENTRAL PAVEMENT & REHABILITATION, SOUTH I-I, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	153,048.00 L.F.
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	12.00 EACH
748554	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, PEDESTRIAN SYMBOL	11.00 EACH
750000	ADJUST WATER VALVE BOXES	125.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	224.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	428,985.00 SY-IN
761001	BUTT JOINTS, HOT MIX	600.00 S.Y.
762001	SAW CUTTING, HOT MIX	8,280.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	1,040.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00 L.S.
763621	CONSTRUCTION ENGINEERING, RE-SURFACING	1.00 L.S.
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

** DENOTES FIXED PRICE ITEM
