

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
MAINTENANCE SUPPORT – SOUTH DISTRICT
PLANS AND SPECIFICATIONS FOR:

CONTRACT NO: T201206902 P3e No: 11-47777

CONTRACT TITLE: CONVERSION ROADS, SOUTH, 2012

PLANS PREPARED BY: GLENN PHILLIPS, JR (DESIGN TECHNICIAN)

PLANS REVIEWED BY: Jim Wyatt DATE: 7/12/11
MAINT.SUPPORT MANAGER

<p>DATE RECOMMENDED: <u>JULY 12, 2011</u></p> <p>ASSISTANT MAINT. ENGINEER: <u>Shante A. Hastings</u></p>	
<p>DATE RECOMMENDED: <u>7/12/11</u></p> <p>MAINTENANCE ENGINEER: <u>[Signature]</u></p>	
<p>DATE APPROVED: <u>7/12/11</u></p> <p>SOUTH DISTRICT ENGINEER: <u>[Signature]</u></p>	

DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 2 OF 35

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2012

CONTRACT DESCRIPTION & LOCATIONS

THE PURPOSE OF THIS CONTRACT IS TO CONVERT EXISTING SURFACE TREATED ROADS IN SUSSEX COUNTY TO HOT MIX. THE LOCATIONS ARE LISTED BELOW, HOWEVER THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE LOCATIONS WITH NO CHANGES TO UNIT PRICES. THE WORK SHALL INCLUDE HOT MIX OVERLAYS, HOT MIX PATCHING, STRIPING, TOPSOILING, SEEDING, MULCHING AND ANY OTHER WORK ASSOCIATED WITH EACH LOACTION.

LOCATION 1 –
S224 – STAYTONVILLE RD (1.30 MILES)
FROM: S42 (N. UNION CHURCH RD)
TO: S113 (DUPONT BLVD)

LOCATION 8 –
S433 – COUNTRY LIVING RD (1.64 MILES)
FROM: S432 (CROSS KEYS RD)
TO: S410 (GODWIN SCHOOL RD)

LOCATION 2 –
S245 – RUDD RD (.65 MILES)
FROM: S246 (SAVANNAH RD)
TO: S319 (SAND HILL RD)

LOCATION 9 –
S446 – ASBURY RD (2.23 MILES)
FROM: S28 (COUNTY SEAT HWY)
TO: S46 (OLD FURNACE RD)

LOCATION 3 –
S302 – PHILLIPS BRANCH RD (1.02 MILES)
FROM: S301 (HOLLY LAKE RD)
TO: S48 (HOLLYMOUNT RD)

LOCATION 10-
S485A – EASTER LN (0.49 MILES)
FROM: S13 (SEAFORD RD)
TO: S2/US 13 (SUSSEX HWY)

LOCATION 4 -
S317 – PETERKINS RD (3.28 MILES)
FROM: S48 (ZOAR RD)
TO: S47 (SPRINGFIELD RD)

LOCATION 11 –
S488 – JOHNSON RD (1.07 MILES)
FROM: S487 (GUM BRANCH RD)
TO: RAILROAD TRACKS SOUTH OF S13

LOCATION 5 –
S38 – WELLS RD (2.37 MILES)
FROM: 1000' SOUTH OF S199 (FOWLERS BEACH RD)
TO: S224 (SLAUGHTER BEACH RD)

LOCATION 12-
S542 – BUTLER BRANCH RD (1.28 MILES)
FROM: S536 (WOODLAND RD)
TO: S80 (WOODPECKER RD)

LOCATION 6 –
S38 – CODS RD (1.72 MILES)
FROM: S39 (PRIMEHOOK RD)
TO: 1000' SOUTH OF S199 (FOWLERS BEACH RD)

LOCATION 13 –
S621 – CALHOUN RD (1.80 MILES)
FROM: S207 (FITZGERALDS RD)
TO: S36 (SHAWNEE RD)

LOCATION 7 –
S43 – WEBBS RD (0.72 MILES)
FROM: S16 (BEACH HWY)
TO: S42 (N. UNION CHURCH RD)

LOCATION 14 –
S633 – GRIFFITH LAKE DR (1.92 MILES)
FROM: S620 (ABBOTTS POND RD)
TO: K443 (WILLIAMSVILLE RD)

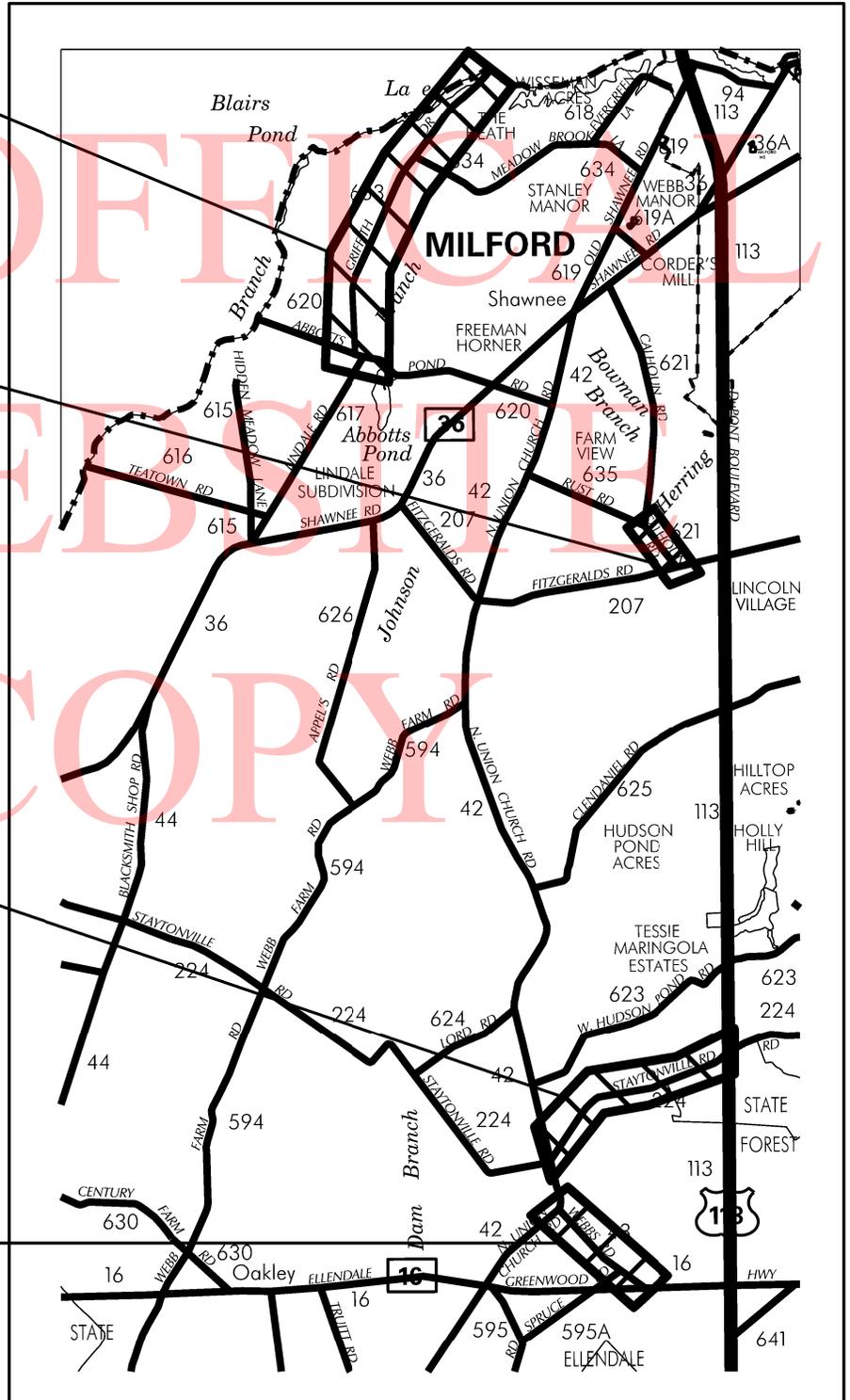
LOCATION MAP

LOCATION 14
S633 (GRIFFITH LAKE DR)
FROM: S620 (ABBOTTS POND RD)
TO: K443 (WILLIAMSVILLE RD)

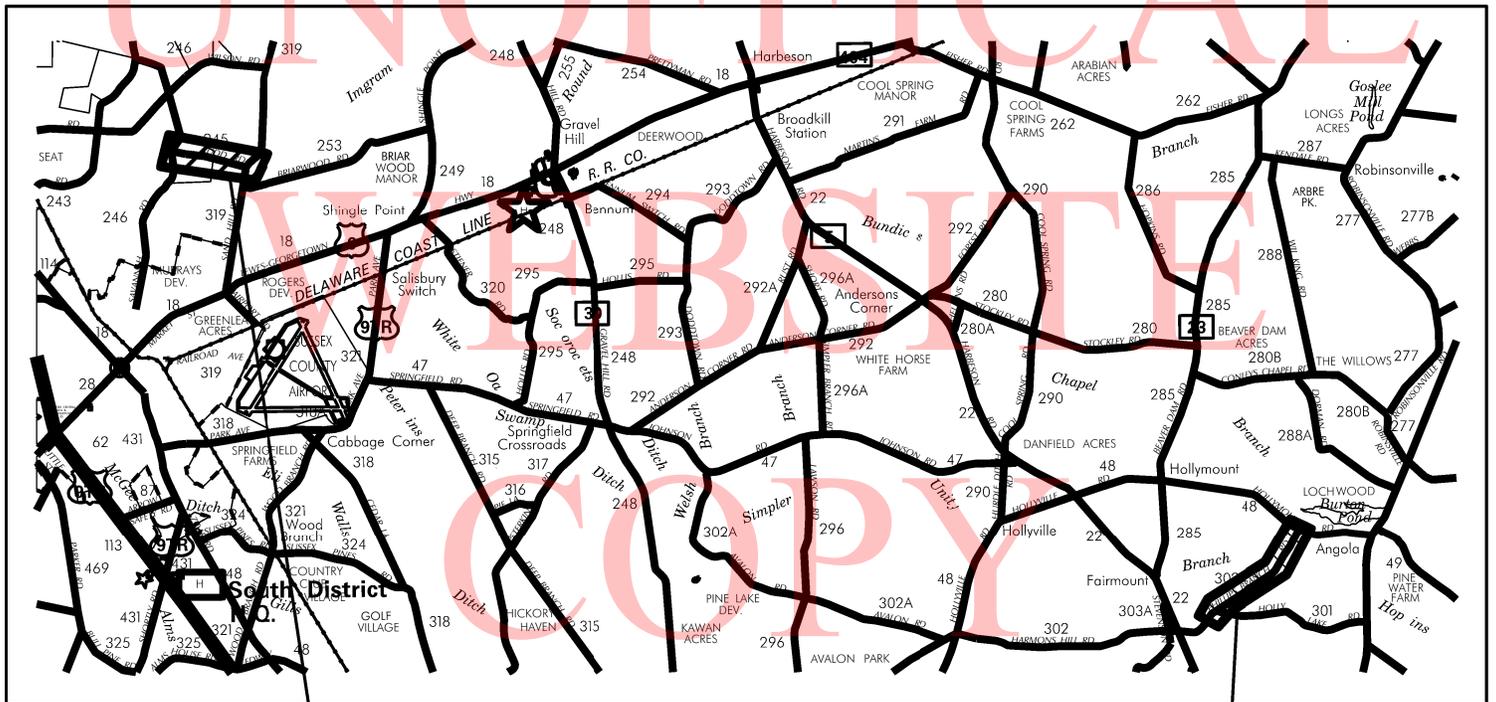
LOCATION 13
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FROM: S207 (FITZGERALDS RD)
TO: S36 (SHAWNEE RD)

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TO: S113 (DUPONT BLVD)

LOCATION 7
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FROM: S16 (BEACH HWY)
TO: S42 (N. UNION CHURCH RD)



LOCATION MAP



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FROM: S246 (SAVANNAH RD)
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LOCATION 3
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FROM: S301 (HOLLY LAKE RD)
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DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

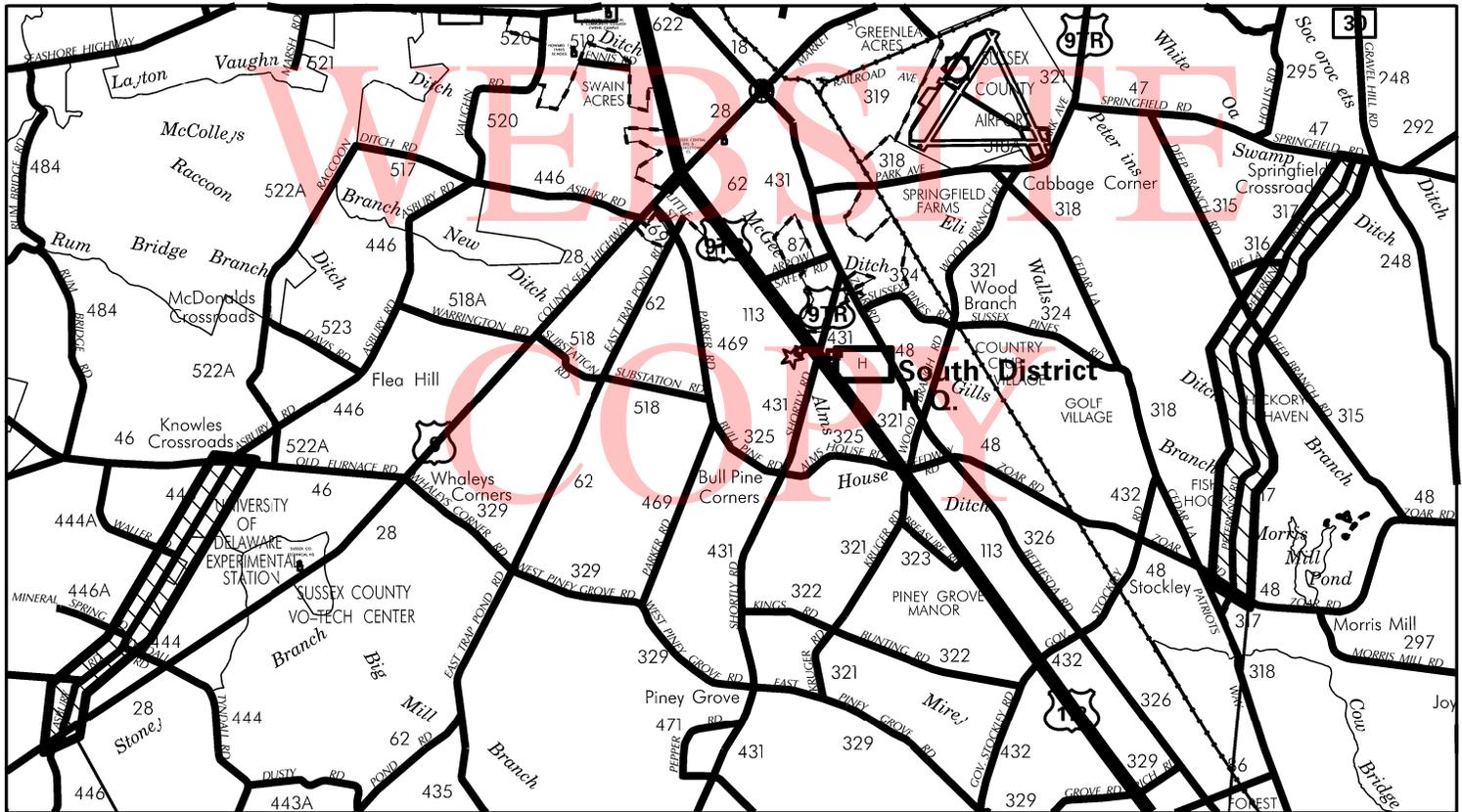
PAGE 5 OF 35

SOUTH DISTRICT

CONVERSION ROADS , SOUTH, 2012

LOCATION MAP

UNOFFICIAL

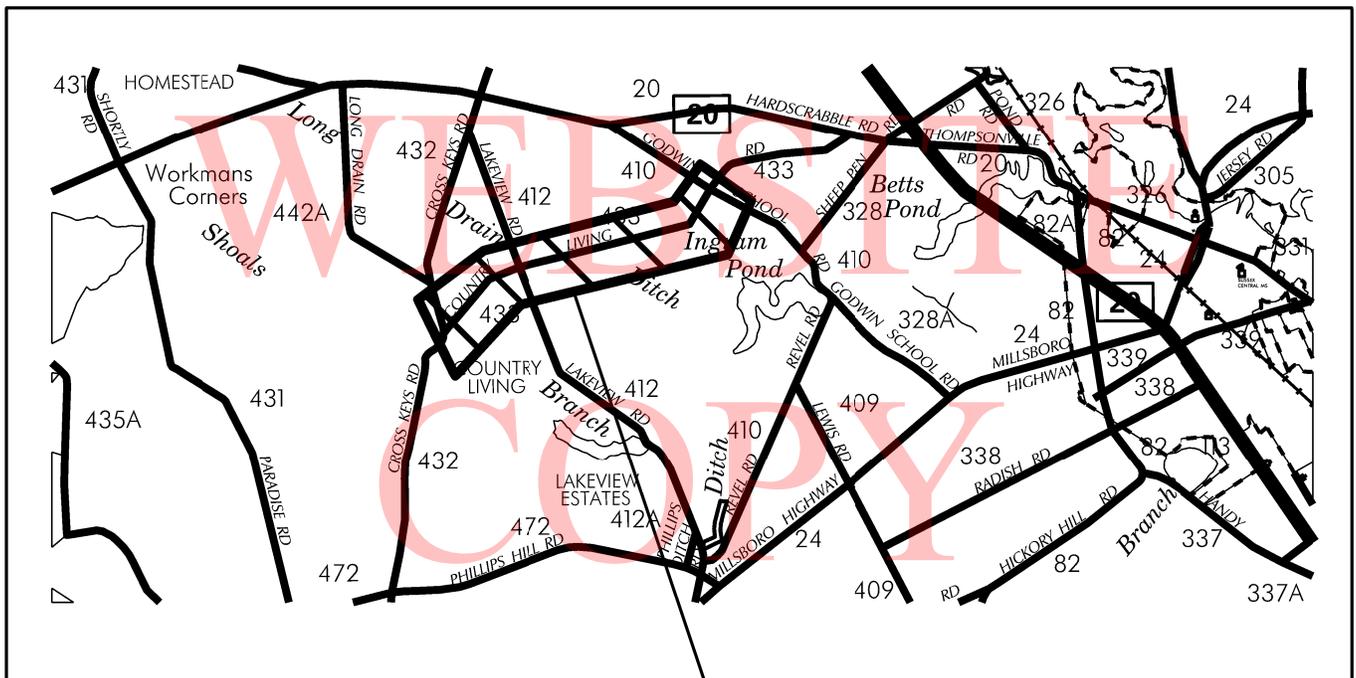


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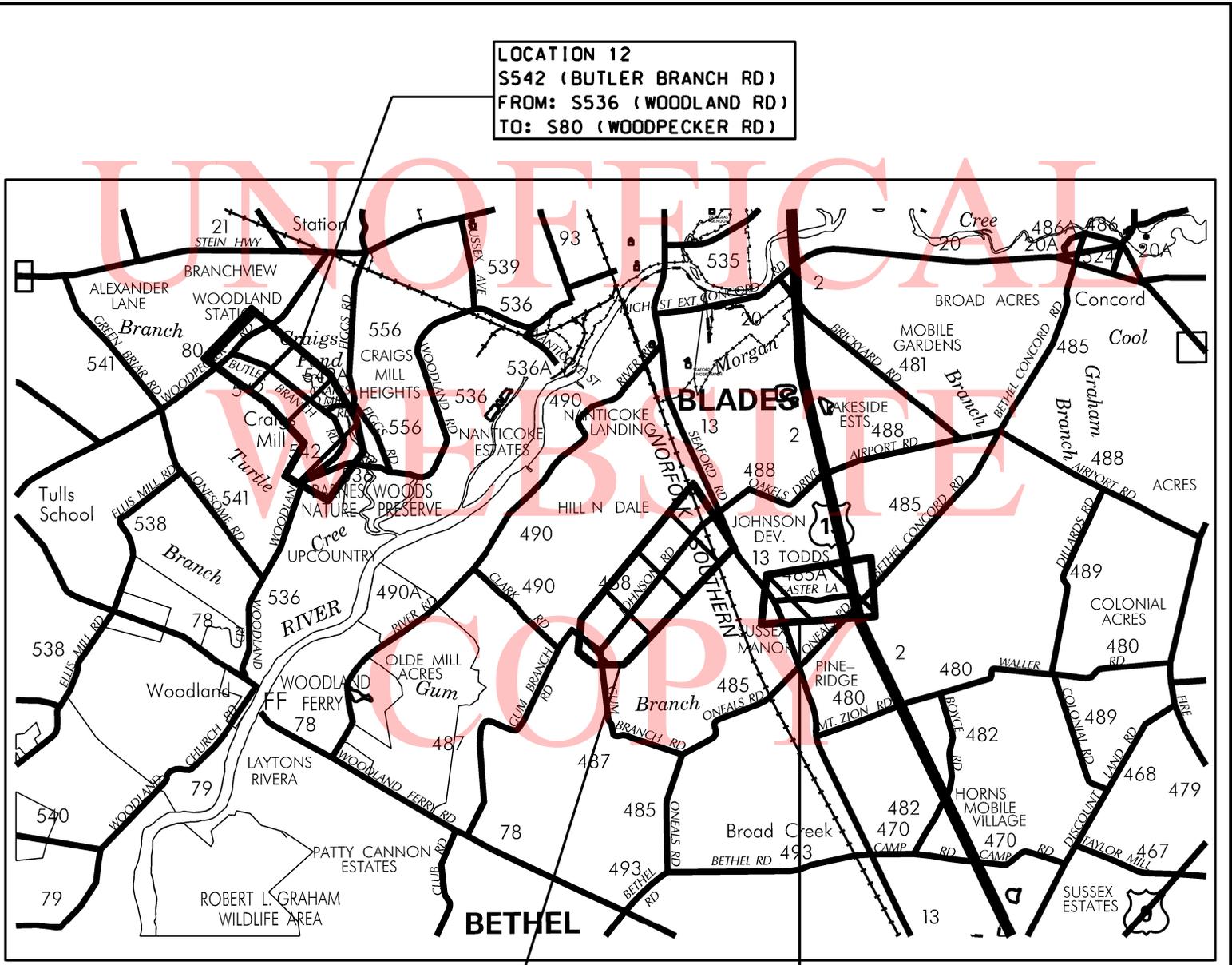
LOCATION MAP

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DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206902

PAGE 9 OF 35

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2012

GENERAL CONTRACT PLAN NOTES

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2001 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, THE MOST RECENT STANDARD CONSTRUCTION DETAILS, AND THESE PLANS.
2. THE PURPOSE OF THIS CONTRACT IS TO MAKE 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. ALL WORK ADDED SHALL BE PERFORMED AT CONTRACT UNIT PRICES. IN THE CASE WHERE CONTRACT UNIT PRICES ARE NOT AVAILABLE, THE PRICES ARE TO BE NEGOTIATED PRIOR TO COMMENCEMENT OF WORK.
4. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS WHO LIVE ADJACENT TO THE WORK ZONE WITH A MINIMUM 48 HR. PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT CONTACT NUMBERS. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED.
5. 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.
6. 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.

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

7. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO 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 AT THE PRECONSTRUCTION MEETING. 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 FINAL PAVEMENT MARKINGS SHALL BE PLACED WITHIN FIVE (5) CALENDAR DAYS AFTER THE PLACEMENT OF THE FINAL COURSE OF HOT-MIX. FAILURE TO

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206902

PAGE 10 OF 35

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2012

GENERAL CONTRACT PLAN NOTES

COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. THE DEPARTMENT WILL PROVIDE STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXISTED. IF DEPARTMENT FORCES PROVIDE STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR THE LAYOUT COSTS. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHITE EDGE LINES SHALL WRAP AROUND THE RADIUS OF ALL SIDE STREETS AND MAJOR COMMERCIAL ENTRANCES TO A TANGENT POINT. YELLOW CENTERLINES SHALL BE CONTINUOUS AROUND MEDIAN ISLANDS. THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULL OPENING ROADWAY TO TRAFFIC.

8. 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 WATER BLASTING. NO OTHER REMOVAL METHODS WILL BE ALLOWED. A FLAT BLACK PAINT OR DRIVEWAY SEALER SHALL BE APPLIED IN THE AREA OF THE REMOVED MARKING TO MASK THE REPAIR. ANY DAMAGE TO THE PAVEMENT CAUSED BY REMOVAL OF ERRONEOUS MARKINGS SHALL BE REPAIRED / REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.
9. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY STRIPING SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT STRIPING PER THE LATEST VERSION OF THE PERMANENT MARKING SECTION OF THE DELAWARE MUTCD. TEMPORARY PAVMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE.
10. INTERNATIONAL CROSSWALK SYMBOLS WILL BE PLACED AT ALL EXISTING CROSSWALK LOCATIONS OR OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE STRIPING ITEMS.
11. THE CONTRACTOR AND ALL OTHERS SHALL PERFORM ALL WORK IN A MANNER THAT WILL ENSURE THE LEAST PRACTICAL OBSTRUCTION TO THE TRAVELING PUBLIC AND SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST VERSION OF THE MANUAL ENTITLED "DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" IN EFFECT AT THE TIME OF ADVERTISEMENT FOR BIDS.
12. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING THE NECESSARY NCHRP 350 CERTIFICATIONS FOR ALL DEVICES THAT WILL BE UTILIZED, FOR EACH LOCATION BEFORE THE START OF THE PRE-CONSTRUCTION MEETING. WRITTEN APPROVAL MUST BE RECEIVED BEFORE THE START OF WORK AT EACH AND EVERY LOCATION.
13. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION, SHALL BE IN COMPLIANCE WITH THE TRAFFIC CONTROL MANUAL AND NCHRP 350 AS DEFINED IN SECTION "6A" OF THE DELAWARE MUTCD AND SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN GOOD CONDITION FOR DURATION OF USE.
14. 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 BY THE

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206902

PAGE 11 OF 35

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2012

GENERAL CONTRACT PLAN NOTES

CONTRACTOR, WHO SHALL BE RESPONSIBLE FOR ANY 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.

15. NO SEPARATE PAYMENT SHALL BE MADE FOR THE USE OF TRAFFIC CONES. TRAFFIC CONES AND/OR WORK ASSOCIATED WITH THEIR USE SUCH AS SETUP, REMOVAL, CLEANING, ETC. SHALL BE INCIDENTAL TO THE WORK FOR WHICH THEY PROTECT.
16. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL CORRECT ALL PAVEMENT EDGE DROP OFFS ACCORDING TO SECTION 6G.21 OF THE DELAWARE MUTCD. ANY CORRECTIVE MEASURES TAKEN BY THE CONTRACTOR SHALL BE INCIDENTAL TO THE MOT ITEMS. SEE TABLE 6G.1
17. PRIOR TO ADDITIONAL LIFTS, ALL DROP OFFS SHALL BE SECURED BEFORE NEXT LIFT PER DELAWARE MUTCD 6G.1.
18. WHEN WEDGING, SAFETY EDGE SHALL BE INSTALLED AT THE EDGE OF PAVEMENT WHEN VERTICAL DIFFERENCE OF 2" OR GREATER IS CREATED AT THAT LOCATION. SAFETY EDGE SHALL BE USED ON ALL OVERLAYS
19. THE CONTRACTOR SHALL USE TYPICAL APPLICATION 10 FROM THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS OUTLINED IN THE BREAKOUT SHEET FOR ITEM 763643, MAINTENANCE OF TRAFFIC.
20. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE TRAFFIC MANAGEMENT CENTER (1-302-659-4600) IS NOTIFIED EACH AND EVERY DAY WHEN WORK IS BEING PERFORMED IN STATE RIGHT OF WAY. CONTRACTOR MUST IDENTIFY THE TYPE OF WORK, ANY LANE/S OR SHOULDERS CLOSED, LENGTH OF TIME FOR WORK, WHEN LANE RESTRICTION IS IN PLACE AND WHEN LANE RESTRICTION IS PICKED UP, CONTACT PERSON/NUMBER, AND STATE INSPECTOR.
21. TRAFFIC CONTROL DEVICES SHALL BE SUITABLY MAINTAINED AT ALL TIMES. INCLUDING SUCH MAINTENANCES AS WASHING SIGN FACES, REPLACING DEFICIENT BATTERIES AND LIGHTS, ALIGNING PROPERLY, REPLACING REFLECTIVE MATERIALS, RELOCATING BARRIERS, AND ANY OTHER MAINTENANCE OF TRAFFIC CONTROL DEVICES DEEMED NECESSARY BY THE ENGINEER OF DESIGNEE TO MAINTAIN TRAFFIC IN A SAFE AND EFFECTIVE MANNER.
22. THE CONTRACTOR SHALL BE RESPONSBLE FOR COORDINATING HIS/HER WORK WITH OTHER CONTRACTORS IN THE AREA.
23. ACCESS TO ALL BUSINESSES AND RESIDENCIES SHALL BE MAINTAINED AT ALL TIMES. ANY CLOSURE OF ENTRANCES/RESIDENCIES SHALL BE COORDINATED WITH THE LAND OWNER PRIOR TO ANY CLOSURES.

PROJECT

24. UNLESS SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.
25. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, ANY AND ALL CONSTRUCTION ENGINEERING SHALL BE INCIDENTAL TO THE CONTRACT.
26. THE COST OF CLIPPING THE EDGES BACK, PICKING UP AND DISPOSING OF EXCESS MATERIAL

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206902

PAGE 12 OF 35

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2012

GENERAL CONTRACT PLAN NOTES

AND SWEEPING AND CLEANING EXISTING PAVEMENT PRIOR TO OVERLAY SHALL BE INCIDENTAL TO SECTIONS 401().

27. 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. PAVEMENT MILLINGS WILL NOT BE ALLOWED FOR THIS PURPOSE. IN ROTOMILLING AREAS, THERE WILL BE NO SEPARATE PAYMENT FOR BUTT JOINTS.
28. 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" (0mm) AT A DISTANCE OF +/- 6½' (2m) FROM THE STRUCTURE. THE COMPUTED DEPTH FOR PAYMENT PURPOSES IS THE AVERAGE OF THE TWO DEPTHS.
29. MILLINGS, IF PART OF THESE IMPROVEMENTS SHALL INCLUDE THE COST OF DELIVERY OF MILLED MATERIAL TO THE NEAREST STATE DISTRICT MAINTENANCE YARD IN THE PRICE BID FOR SECTION 760().
30. CATCH BASIN GRATES WITHIN THE LOCATION LIMITS THAT DO NOT MEET THE STANDARD DETAIL FOR A TYPE 1 GRATE (I.E. DON'T HAVE 45 DEGREE SLOTS) SHALL BE REPLACED. THE ENGINEER SHALL DETERMINE THE ACTUAL LOCATIONS AND NEED FOR GRATE OR FRAME MODIFICATIONS. CATCH BASIN FRAMES SHALL INCLUDE NECESSARY ADJUSTMENTS TO MEET PROPOSED GRADES INCIDENTAL TO THE CATCH BASIN FRAME ITEM. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH DELIVERY COSTS INCIDENTAL TO THE APPROPRIATE BID ITEMS. PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED AND SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.
31. 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 732500, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL FOR CURB AND SIDEWALK WHEN SO DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" SHOULD BE PRESENT IN MATERIAL USED FOR BACKFILL. 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 CATCH BASINS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.
32. THE COST OF FINE GRADING, COMPACTING, AND PREPARING EXISTING SHOULDERS FOR PAVING SHALL BE INCIDENTAL TO SECTIONS 401().
33. MATERIALS USED TO FILL SHOULDER AREAS ADJACENT TO NEW HOT MIX OVERLAYS MAY BE ONE OR MORE OF THE FOLLOWING MATERIALS: ITEMS 732004- TOPSOIL, MODIFIED, OR 302005- GRADED AGGREGATE BASE COURSE TYPE B. THE UNIT PRICE SHALL INCLUDE FURNISHING, PLACEMENT, GRADING AND COMPACTING THE MATERIAL.

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206902

PAGE 13 OF 35

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2012

GENERAL CONTRACT PLAN NOTES

34. AFTER PAVEMENT MILLING, ALL TRANSVERSE VERTICAL DIFFERENCES, RAISED EDGES OF MANHOLES, CATCH BASINS, WATER VALVE BOXES, ETC. SHALL BE RAMPED WITH HOT-MIX TRM AT A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS WILL NOT BE ALLOWED FOR THIS PURPOSE. PAYMENT SHALL BE INCIDENTAL TO THE HOT MIX ITEM.
35. 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.
36. ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, IS TO BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF EACH DAY'S MILLING OPERATION. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.
37. WHEN CLEANING AFTER A PAVEMENT MILLING OPERATION, THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC. SO AS TO NOT DISTURB THE EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTH. ANY DAMAGE CAUSED BY CONTRACTORS OPERATION MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER PAVEMENT MILLING OPERATIONS SHALL BE INCIDENTAL TO THE PAVEMENT MILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE PAVEMENT MILLING ITEMS.
38. WHERE SIDEWALKS EXIST WITHIN THE LOCATION LIMITS, CURB RAMPS SHALL BE EITHER NEWLY INSTALLED OR RETROFITTED AS DIRECTED BY THE ENGINEER IN COMPLIANCE WITH THE MOST CURRENT DELAWARE STANDARD CONSTRUCTION DETAILS OR AS SHOWN ON THE PLANS. PAYMENT WILL BE MADE UNDER THE APPROPRIATE CURB RAMP AND DETECTABLE WARNING SYSTEM ITEMS.
39. 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.
40. CATCH BASINS, WHICH ARE 4' (1.2 m) GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 708000 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 710001.
41. THE PORTLAND CEMENT CONCRETE USED WITHIN ITEM 710002 - ADJUSTING AND REPAIRING 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.

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206902

PAGE 14 OF 35

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2012

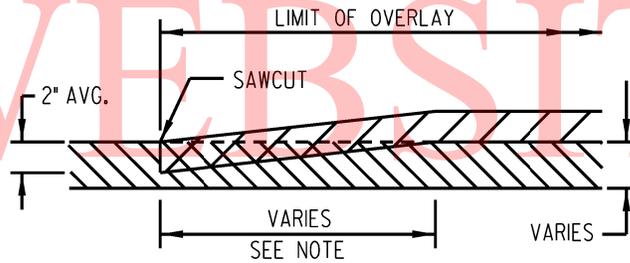
GENERAL CONTRACT PLAN NOTES

42. A 3" (75mm) OVERLAY SHALL BE 2 EQUAL LIFTS OF TYPE C HOT MIX. A 3½" (90mm) OVERLAY SHALL BE A 1¼" (30mm) TYPE C LIFT OVER A 2¼" (60mm) TYPE B LIFT UNLESS OTHERWISE NOTED IN THE PLANS.
43. THE MINIMUM AND MAXIMUM SINGLE LIFT THICKNESSES OF MATERIALS SHALL BE AS FOLLOWS:
- TYPE C HOT-MIX: 1.25" - 2.00"
 - TYPE B HOT-MIX: 2.25" - 3.00"
 - BCBC: 3.00" - 6.00"
 - GABC: 2.00" - 8.00"
44. ALL SUBDIVISIONS SHALL USE A TYPE C HOTMIX MIXTURE THAT SHALL MEET THE REQUIREMENTS FOR A 9.5mm (3/8") NOMINAL MAXIMUM AGGREGATE SIZE FOR SUPERPAVE MIXTURE.
45. THE PURPOSE OF THE HOT MIX WEDGE COURSE, WHEN SPECIFIED, IS TO REMOVE EXISTING EXCESSIVE CROWN RESULTING IN A FINAL CROSS SLOPE OF BETWEEN 2% AND 4% OR AS DIRECTED BY THE ENGINEER.
46. THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.
47. THE CONTRACTOR, PRIOR TO LAYING A RUN OF DRAINAGE PIPE OR OTHER INVOLVED CONSTRUCTION, SHALL EXCAVATE WITHIN THE ALIGNMENT AT POINTS OF POSSIBLE CONFLICT TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ENGINEER AND THE UTILITY INVOLVED. THE ENGINEER SHALL DETERMINE THE SOLUTION. EXCAVATING AND BACKFILLING OF THE TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 208000, EXCAVATION AND BACKFILL FOR PIPE TRENCHES, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED. CONSTRUCTION OF ANY PROPOSED DRAINAGE, TEMPORARY DRAINAGE OR INSTALLATION OF EROSION CONTROL MEASURES SHALL START AT THE OUTFALL AND PROGRESS UPSTREAM FOR ALL CONSTRUCTION PHASES.
48. FOR THIS CONTRACT, SECTION 612 OF THE STANDARD SPECIFICATIONS SHALL BE MODIFIED SUCH THAT PAYMENT FOR PIPE EXCAVATION AND BACKFILLING WILL BE MEASURED AND PAID UNDER ITEM 208000 REGARDLESS OF THE PIPE SIZE TO BE UTILIZED.
49. ITEM NO. 401696; ENTRANCE, DRIVEWAY & INTERSECTING STREET PAVING SURCHARGE SHALL BE USED FOR STATE NUMBERED ROADS ONLY AND SHALL NOT BE USED WITHIN ANY SUBDIVISION OR DEVELOPMENT.
50. WHEN REPLACING EXISTING PIPES, THE REMOVAL OF THE EXISTING PIPES SHALL BE INCIDENTAL TO THE ITEM 208000.

DETAILS SHEET

UNOFFICIAL

WEBSITE



COPY

LEGEND	
	— PROPOSED OVERLAY
	— EXISTING PAVEMENT
	— PAVEMENT TO BE REMOVED

BUTT JOINT DETAIL

NOTE: THE FOLLOWING LENGTHS APPLY BASED ON THE POSTED SPEED OF THE ROADWAY:

LESS THAN 50 MPH = 20 FEET per INCH OF OVERLAY DEPTH.

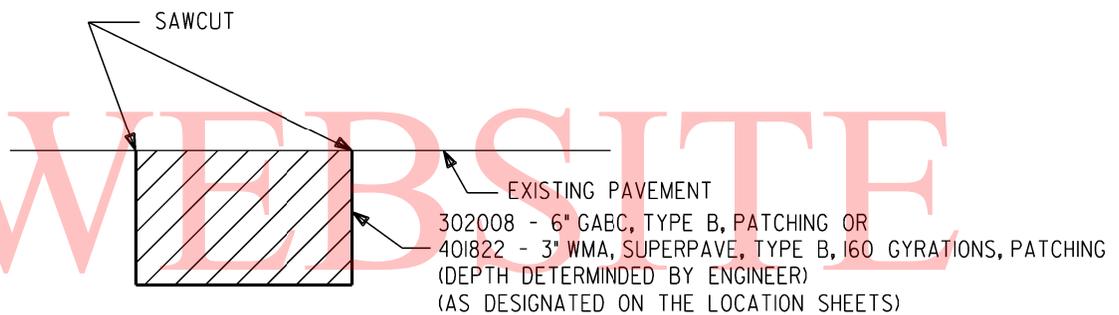
50 MPH OR GREATER = 30 FEET per INCH OF OVERLAY DEPTH.

AT STOP SIGNS = 15 FEET IN LENGTH.

BUTT JOINTS SHALL BE CONSTRUCTED AT ENTRANCES AND DRIVEWAYS AS DIRECTED BY THE ENGINEER.

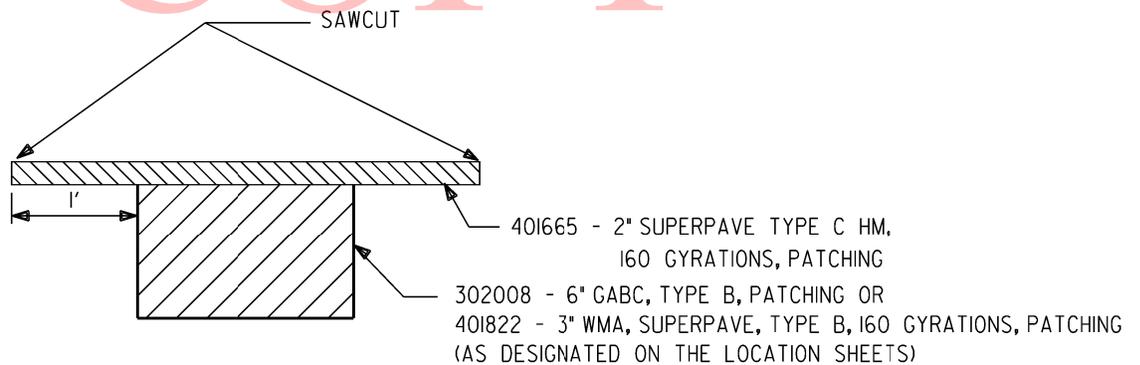
DETAILS SHEET

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. THIS DETAIL SHALL BE USED FOR ALL HOT-MIX PATCHES UNLESS OTHERWISE NOTED ON THE PLANS.



HOT-MIX PATCH WITH OVERLAY

NOTE: DEPTH OF PATCHING, 3" OR AS DIRECTED BY THE ENGINEER

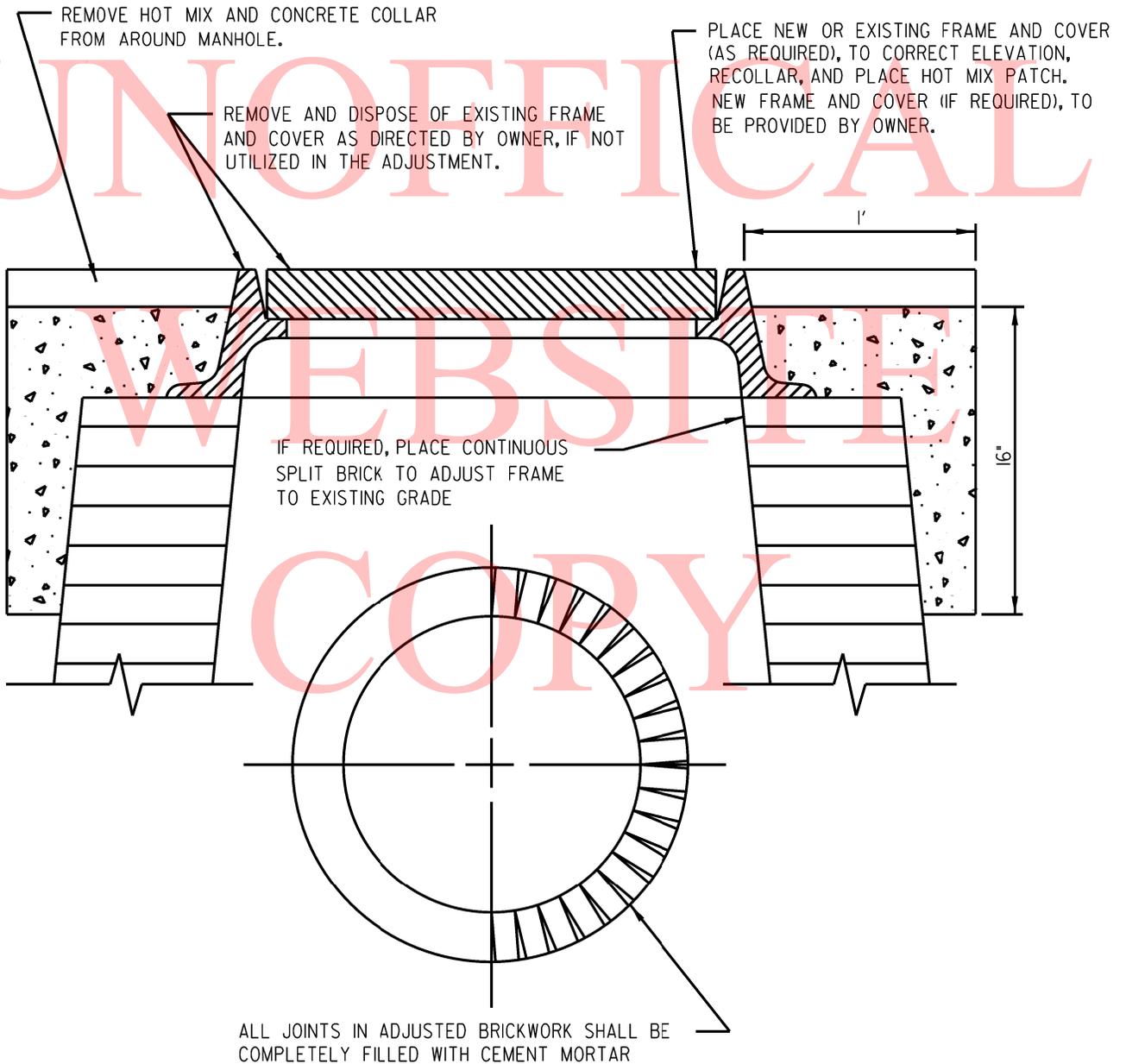


HOT-MIX PATCH DETAIL

NOTE: DEPTH OF PATCHING, 8" OR AS DIRECTED BY THE ENGINEER

NOTE: ITEM 401822 (TYPE 'B' PATCHING) MAY BE SUBSTITUTED WITH ITEM 401823 (WMA, BCBC, PATCHING) AT THE DIRECTION OF THE ENGINEER.

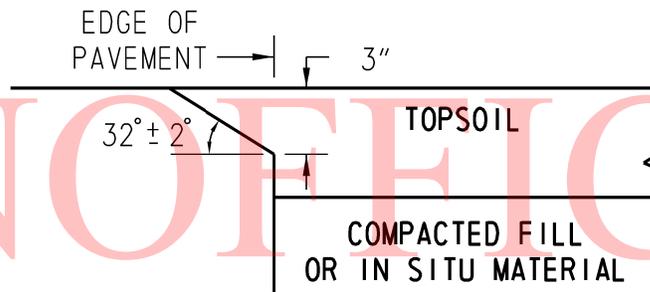
DETAILS SHEET



ADJUSTING MANHOLE

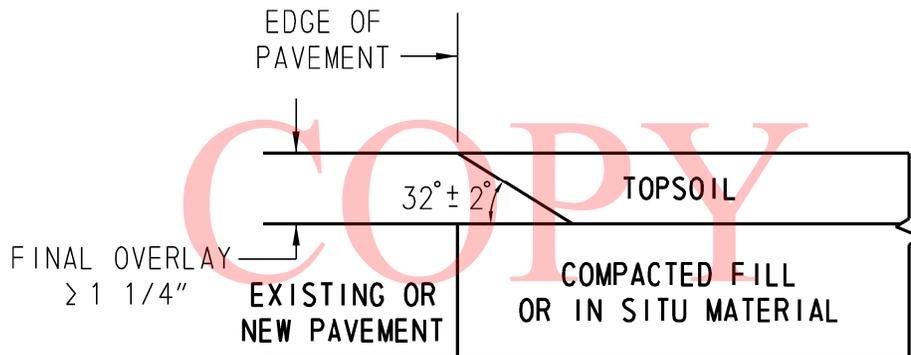
NOTE: MANHOLES IN CONCRETE ROADWAYS SHALL BE SAWCUT FULL DEPTH TO THE SPECIFIED DIMENSIONS PRIOR TO ANY ADJUSTMENT BEING MADE. THE SAWCUTTING SHALL BE INCIDENTAL TO ITEM 710002.

DETAILS SHEET



CONCRETE PAVEMENTS

N. T. S.



BITUMINOUS CONCRETE PAVEMENTS AND OVERLAYS

N. T. S.

SAFETY EDGE

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 19 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 1 224(STAYTONVILLE RD) FROM S42 (NORTH UNION CHURCH RD) TO S113
(DUPONT BLVD)

LENGTH 1996.44 m 6550 L.F. AADT 523

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING AND WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

209013	BORROW, TYPE F	65.00 TON
302005	GRADED AGGREGATE BASE COURSE, TYPE B	72.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	2,065.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	165.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	180.00 TON
406001	HOT-MIX PATCHING	955.00 SY-IN
732004	TOPSOIL (TON)	285.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	3,260.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	8.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	204.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	36.00 HOUR
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	9,825.00 L.F.
761001	BUTT JOINTS, HOT MIX	202.00 S.Y.
762001	SAW CUTTING, HOT MIX	1,284.00 L.F.

** DENOTES FIXED PRICE ITEM

LOCATION 2 **245(RUDD RD) FROM S246 (SAVANNAH RD) TO S319 (SAND HILL RD)**

LENGTH 1031.748 m 3385 L.F. AADT 570

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING & INTERSECTION IMPROVEMENTS

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

302005	GRADED AGGREGATE BASE COURSE, TYPE B	11.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	910.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	60.00 TON
406001	HOT-MIX PATCHING	970.00 SY-IN
732004	TOPSOIL (TON)	140.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	1,510.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	102.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	18.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	32.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	3,385.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	3,385.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	17.00 EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	5.00 EACH
761001	BUTT JOINTS, HOT MIX	185.00 S.Y.
762001	SAW CUTTING, HOT MIX	440.00 L.F.

** DENOTES FIXED PRICE ITEM

LOCATION 2 245(RUDD RD) FROM S246 (SAVANNAH RD) TO S319 (SAND HILL RD)

COMMENTS:



DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 22 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 3 **302(PHILLIPS BRANCH RD) FROM S301 (HOLLY LAKE RD) TO S48 (HOLLYMOUNT RD)**

LENGTH 1589.532 m 5215 L.F. AADT 1135

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING AND WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 3

209013	BORROW, TYPE F	45.00 TON
302005	GRADED AGGREGATE BASE COURSE, TYPE B	65.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTINGSTREET PAVING SURCHARGE	30.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	1,615.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	295.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	340.00 TON
406001	HOT-MIX PATCHING	4,280.00 SY-IN
732004	TOPSOIL (TON)	300.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	3,340.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	7.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	238.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	42.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	16.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	6,520.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	6,520.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	6.00 S.Y.
761001	BUTT JOINTS, HOT MIX	255.00 S.Y.
762001	SAW CUTTING, HOT MIX	2,025.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	16.00 L.F.

** DENOTES FIXED PRICE ITEM

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 4 317(PETERKINS RD) FROM S48 (ZOAR RD) TO S47 (SPRINGFIELD RD)

LENGTH 5288.28 m 17350 L.F. AADT 645

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 4

302005	GRADED AGGREGATE BASE COURSE, TYPE B	75.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	45.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	5,540.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	80.00 TON
406001	HOT-MIX PATCHING	1,200.00 SY-IN
732004	TOPSOIL (TON)	790.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	8,715.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	10.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	425.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	70.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	32.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	17,350.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	60,725.00 L.F.
761001	BUTT JOINTS, HOT MIX	1,010.00 S.Y.
762001	SAW CUTTING, HOT MIX	272.00 L.F.

** DENOTES FIXED PRICE ITEM

CONTRACT T201206902

PAGE 24 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 5 **38(WELLS RD) FROM 1000' SOUTH OF S199 (FOWLERS BEACH RD) TO S224 (SLAUGHTER BEACH RD)**

LENGTH 3817.62 m 12525 L.F. AADT 622

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 5

209013	BORROW, TYPE F	455.00 TON
302005	GRADED AGGREGATE BASE COURSE, TYPE B	50.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	60.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	3,261.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	1,860.00 TON
732004	TOPSOIL (TON)	784.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	8,755.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	6.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	204.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	36.00 HOUR
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	21,920.00 L.F.
761001	BUTT JOINTS, HOT MIX	355.00 S.Y.

** DENOTES FIXED PRICE ITEM

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 6

CODS RD FROM S39 (PRIME HOOK RD) TO 1000' SOUTH OF S199 (FOWLERS BEACH RD)

LENGTH

GENERAL IMPROVEMENTS

1.5" WMA OVERLAY WITH WEDGING AND PATCHING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 6

209013	BORROW, TYPE F	170.00 TON
302005	GRADED AGGREGATE BASE COURSE, TYPE B	11.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	65.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	1,217.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	2.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	685.00 TON
406001	HOT-MIX PATCHING	34.00 SY-IN
732004	TOPSOIL (TON)	141.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	2,033.00 S.Y.
743052	** FLAGGER, SUSSEX COUNTY, STATE	127.50 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	22.50 HOUR
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	9,150.00 L.F.
760507	PROFILE MILLING, HOT-MIX	156.00 SY-IN
761001	BUTT JOINTS, HOT MIX	315.00 S.Y.
762001	SAW CUTTING, HOT MIX	20.00 L.F.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 26 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 7 43(WEBBS RD) FROM S16 (BEACH HWY) TO S42 (NORTH UNION CHURCH RD)

LENGTH 1133.856 m 3720 L.F. AADT 579

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING AND WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 7

209013	BORROW, TYPE F	67.00 TON
302005	GRADED AGGREGATE BASE COURSE, TYPE B	30.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	25.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	1,138.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	10.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	195.00 TON
406001	HOT-MIX PATCHING	150.00 SY-IN
732004	TOPSOIL (TON)	185.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	2,035.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	102.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	18.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	48.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	4,650.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	4,650.00 L.F.
761001	BUTT JOINTS, HOT MIX	300.00 S.Y.
762001	SAW CUTTING, HOT MIX	386.00 L.F.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 27 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 8 433(COUNTRY LIVING RD) FROM S432 (CROSS KEYS RD) TO S410 (GODWIN SCHOOL RD)

LENGTH 2631.948 m 8635 L.F. AADT 576

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING AND WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 8

209013	BORROW, TYPE F	520.00 TON
302005	GRADED AGGREGATE BASE COURSE, TYPE B	96.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	155.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	3,237.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	120.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	1,510.00 TON
406001	HOT-MIX PATCHING	2,100.00 SY-IN
732004	TOPSOIL (TON)	730.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	7,012.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	12.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	340.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	60.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	32.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	17,270.00 L.F.
761001	BUTT JOINTS, HOT MIX	775.00 S.Y.
762001	SAW CUTTING, HOT MIX	415.00 L.F.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 28 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 9 446(ASBURY RD) FROM S28 (COUNTY SEAT HWY) TO S46 (OLD FURNACE RD)

LENGTH 3535.68 m 11600 L.F. AADT 685

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING AND WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 9

209013	BORROW, TYPE F	225.00 TON
302005	GRADED AGGREGATE BASE COURSE, TYPE B	52.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	316.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	3,720.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	60.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	645.00 TON
406001	HOT-MIX PATCHING	980.00 SY-IN
732004	TOPSOIL (TON)	575.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	6,410.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	14.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	238.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	42.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	16.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	23,200.00 L.F.
761001	BUTT JOINTS, HOT MIX	710.00 S.Y.
762001	SAW CUTTING, HOT MIX	533.00 L.F.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 29 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 10 485A(EASTER HILL RD) FROM S13 (SEAFORD RD) TO S2 / US 13 (SUSSEX HWY)

LENGTH 743.712 m 2440 L.F. AADT 559

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 10

302005	GRADED AGGREGATE BASE COURSE, TYPE B	40.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	20.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	740.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	25.00 TON
406001	HOT-MIX PATCHING	450.00 SY-IN
732004	TOPSOIL (TON)	97.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	1,085.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	77.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	14.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	32.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,220.00 L.F.
761001	BUTT JOINTS, HOT MIX	250.00 S.Y.
762001	SAW CUTTING, HOT MIX	196.00 L.F.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 30 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 11 488(JOHNSON RD) FROM S487 (GUM BRANCH RD) TO RAILROAD CROSSING

LENGTH 1680.972 m 5515 L.F. AADT 623

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING AND WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 11

209013	BORROW, TYPE F	100.00 TON
302005	GRADED AGGREGATE BASE COURSE, TYPE B	55.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	65.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	1,670.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	135.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	165.00 TON
406001	HOT-MIX PATCHING	2,350.00 SY-IN
732004	TOPSOIL (TON)	230.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	2,640.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	6.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	153.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	27.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	154.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	8,275.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	8,275.00 L.F.
761001	BUTT JOINTS, HOT MIX	310.00 S.Y.
762001	SAW CUTTING, HOT MIX	575.00 L.F.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 31 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 12 **542(BUTLER BRANCH RD) FROM S536 (WOODLAND RD) TO S80 (WOODPECKER RD)**

LENGTH 2072.64 m 6800 L.F. AADT 2492

GENERAL IMPROVEMENTS

2" WARM MIX ASPHALT WITH PATCHING AND WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 12

209013	BORROW, TYPE F	32.00 TON
302005	GRADED AGGREGATE BASE COURSE, TYPE B	55.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	10.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	2,255.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	50.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	92.00 TON
406001	HOT-MIX PATCHING	750.00 SY-IN
732004	TOPSOIL (TON)	285.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	3,200.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	7.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	238.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	42.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	48.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	10,200.00 L.F.
760502	PAVEMENT MILLING, TAPER CUT	90.00 SY-IN
761001	BUTT JOINTS, HOT MIX	534.00 S.Y.
762001	SAW CUTTING, HOT MIX	628.00 L.F.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 32 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 13 621(CALHOUN RD) FROM S207 (FITZGERALDS RD) TO S36 (SHAWNEE RD)

LENGTH 2883.408 m 9460 L.F. AADT 604

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 13

302005	GRADED AGGREGATE BASE COURSE, TYPE B	62.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	35.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	2,600.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	55.00 TON
406001	HOT-MIX PATCHING	900.00 SY-IN
732004	TOPSOIL (TON)	375.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	4,225.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	238.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	42.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	45.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	7,095.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	7,095.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	14.00 S.Y.
761001	BUTT JOINTS, HOT MIX	610.00 S.Y.
762001	SAW CUTTING, HOT MIX	380.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	37.00 L.F.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206902

PAGE 33 OF 35

SOUTH
MAINTENANCE

CONVERSION ROADS, SOUTH, 2012

LOCATION 14 **633(GRIFFITH LAKE DR) FROM S620 (ABBOTTS POND RD) TO K443
(WILLIAMSVILLE RD)**

LENGTH 3154.68 m 10350 L.F. AADT 784

GENERAL IMPROVEMENTS

2" WARM MIX OVERLAY WITH PATCHING AND GUARDRAIL

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 14

211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	100.00 L.F.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	143.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTINGSTREET PAVING SURCHARGE	4.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	3,250.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	218.00 TON
406001	HOT-MIX PATCHING	3,795.00 SY-IN
720023	GALVANIZED TRANSITION SECTION, THRIE BEAM	2.00 EACH
720050	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	25.00 L.F.
720055	CURVED GUARDRAIL SECTION	12.50 L.F.
720585	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	1.00 EACH
726004	ENTRANCE SPECIAL END ANCHORAGE	1.00 EACH
732004	TOPSOIL (TON)	410.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	4,600.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	8.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	204.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	36.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	32.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	15,525.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	6.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	400.00 SY-IN
761001	BUTT JOINTS, HOT MIX	540.00 S.Y.
762001	SAW CUTTING, HOT MIX	2,000.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	16.00 L.F.

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206902

PAGE 34 OF 35

SOUTH CONVERSION ROADS, SOUTH, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

209013	BORROW, TYPE F	1,679.00 TON
211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	100.00 L.F.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	817.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	830.00 TON
401800	WMA, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	33,218.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	1,275.00 TON
401825	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, WEDGE	5,672.00 TON
406001	HOT-MIX PATCHING	18,914.00 SY-IN
720023	GALVANIZED TRANSITION SECTION, THRIE BEAM	2.00 EACH
720050	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	25.00 L.F.
720055	CURVED GUARDRAIL SECTION	12.50 L.F.
720585	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	1.00 EACH
726004	ENTRANCE SPECIAL END ANCHORAGE	1.00 EACH
732004	TOPSOIL (TON)	5,327.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	58,820.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	94.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	2,890.50 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	505.50 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	487.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	47,275.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	198,960.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	17.00 EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	5.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	26.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	490.00 SY-IN
760507	PROFILE MILLING, HOT-MIX	156.00 SY-IN
761001	BUTT JOINTS, HOT MIX	6,351.00 S.Y.
762001	SAW CUTTING, HOT MIX	9,154.00 L.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201206902

PAGE 35 OF 35

SOUTH CONVERSION ROADS, SOUTH, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

762002	SAW CUTTING, CONCRETE, FULL DEPTH	69.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

** DENOTES FIXED PRICE ITEM

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