



STATE OF DELAWARE  
DEPARTMENT OF TRANSPORTATION  
PO BOX 778  
DOVER, DELAWARE 19903

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GOVERNOR

SHAILEN BHATT  
SECRETARY

**VIA OVERNIGHT DELIVERY**

(302) 760-2030  
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October 9, 2013

Contract No. T201206309.01  
Federal Aid Project No. ESTP-2013(04)  
Pavement & Rehabilitation, South II-IX, 2012  
Sussex County

Ladies and Gentlemen:

Enclosed is Addendum No. 3 for the referenced contract consisting of the following:

**NOTE: The date for the receipt of bids has been moved to Tuesday, October 29, 2013.**

1. One (1) page, Bid Proposal Cover, revised, to be substituted for the same page in the Proposal.
2. One (1) page, Location Description, page i, revised, to be substituted for the same page in the Proposal. The Notice to Proceed date has been changed.
3. Two (2) pages, Table of Contents, page iii and iv, revised, to be substituted for the same page in the Proposal.
4. Four (4) pages, Special Provisions, 304506 - Portland Cement, pages 41A through 41D, new, to be added to the Proposal.
5. Quantities have been revised for the following items:  
304508  
401713  
406001  
401823  
762001
6. Four (4) pages, Bid Proposal Forms, pages 1 through 4, revised, to be substituted for the same pages in the Proposal.
7. Nine (9) sheets, Construction Plans, sheets 1, 17, 18, 19, 20, 21, and 23 through 25, revised, to be substituted for the same sheets in the Plan Set.
8. For proposal holders with the electronic bid option only, Amendment Disk No. 1.

Please note the revisions listed above and submit your bid based upon this information.

Sincerely,

*signature on file*

James H. Hoagland  
Contract Services Administrator

:jhh  
Enclosures

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT T201206309.01

FEDERAL AID PROJECT NO. ESTP-2013(04)

PAVEMENT & REHABILITATION, SOUTH II-IX, 2012

SUSSEX COUNTY

ADVERTISEMENT DATE: August 26, 2013

Completion Date 140 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION  
DELAWARE DEPARTMENT OF TRANSPORTATION  
AUGUST 2001

Bids will be received in the Bidder's Room, Transportation Administration Center, 800 Bay Road, Dover, Delaware until 2:00 P.M. local time ~~September 17, 2013~~ ~~October 1, 2013~~ ~~October 15, 2013~~ **October 29, 2013.**

**Contract No.T201206309.01  
Federal Aid Project No. ESTP-2013(04)**

**PAVEMENT & REHABILITATION, SOUTH II-IX, 2012  
SUSSEX COUNTY**

**GENERAL DESCRIPTION**

LOCATION

These improvements are located in SUSSEX County more specifically shown on the Location Map(s) of the enclosed Plans.

DESCRIPTION

The improvements consist of furnishing all labor and materials for Pavement & Rehabilitation, South II-IX, 2012, and other incidental construction in accordance with the location, notes and details shown on the Plans and as directed by the Engineer.

COMPLETION DATE

All work on this contract must be complete within 140 Calendar Days . It is the Department's intent to issue a Notice to Proceed such that work starts on or about ~~October 23, 2013~~ **March 31, 2014**.

PROSPECTIVE BIDDERS NOTES:

1. No retainage will be withheld on this contract.
2. The Department's External Complaint Procedure can be viewed on our Website at; <http://www.deldot.gov/information/business/>, or you may request a copy by calling (302) 760-2555.
3. This project incorporates the electronic bidding system **Expedite, version 5.9a.**. Bidders wishing to use the electronic bidding option will find the installation file on the plan holders bid file disk. The installation file and instructions are also available on our Website at: [http://www.deldot.gov/information/business/bids/const\\_proj\\_bid\\_info.shtml](http://www.deldot.gov/information/business/bids/const_proj_bid_info.shtml).
4. BIDDERS MUST REQUEST A CD OF THE OFFICIAL PLANS AND SPECIFICATIONS FROM THE DEPARTMENT IN ORDER TO SUBMIT A BID.
5. Please note the Special Provision titled **Changes to Project Documents During Advertisement**. The Department is using an alternative method of providing bid documents for this contract.

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**304504 - CEMENT STABILIZED FULL-DEPTH RECLAMATION**  
**304506 - PORTLAND CEMENT**

**Description:**

This work shall consist of stabilization of road pavements by in-place pulverizing and blending of the existing underlying granular material with an appropriate percentage of a stabilizing agent. To adjust the grade, Graded Aggregate Base Course or Recycled Asphalt Pavement (RAP) may be added to meet the requirements. The process shall result in a uniformly mixed, fully compacted and cured mixture of sub-grade and roadway materials to produce a working platform for subsequent paving operations and a structural support for the pavement.

**Materials:**

**Reclaimed Material.** Once this material is pulverized, the following gradations shall be met: 95% passing the 2 inch sieve, 92% passing the 1 ½ inch sieve, and 55% minimum passing the 3/8 inch sieve.

**Stabilizing Agent.** The stabilizing agent shall be Portland cement, Type I or II, meeting the requirements of Section 801 in the Standard Specifications. Due to particular conditions, the use of lime or limestone dust may be required. If lime is utilized, it shall meet the requirements of AASHTO M216.

**Water.** The water shall be free from minerals or organic substances deleterious to the recycled base and cement and shall meet the requirements of Section 803.

**Aggregates.** If imported aggregates are required, they shall meet the material requirements of Section 302 of the Standard Specifications. If RAP is required, it shall have 100% passing the 2-inch sieve.

**Curing Materials.** The asphalt used as a curing film for the reclaimed base course shall be RS 1, RS 2, or CSS-1h meeting the requirements of AASHTO M 140 and shall be approved prior to use.

**Preconstruction:**

**Sampling and Pre-Testing Reclaimed Materials.** The Contractor shall obtain samples of the granular base and subgrade soils from test pits or cores to the depth to be reclaimed for laboratory evaluation. The Contractor shall provide to the Engineer the following information:

- (1) Test Pit and cores location, one sample for every 1500 lane-feet with a minimum of six samples on each mix design, with additional locations selected upon pavement conditions and variability.
- (2) Depth of the existing road structure to be reclaimed unless shown otherwise on plans.
- (3) Laboratory test results:

DESCRIPTION OF TEST METHOD	AASHTO TEST
Determination of water moisture content	T265
Liquid Limit, Plastic Limit, and Plasticity Index of Soil	T89, T90
Sand Equivalent Value of Soils and Fine Aggregate	T176
Sieve Analysis of Fine and Coarse Aggregates	T27
Materials Finer than 0.075 mm Sieve in Mineral Aggregates by Washing	T11
Classification of Soils	M145
Moisture-Density Relationship of Soil-Cement Mixtures	T134
Unconfined Compressive Strength (Test implemented on treated Material and completed with freeze-thaw cycle).	T208

**Mix Design.** The design shall be performed by the Contractor in accordance with these specifications and submitted to the Engineer for approval a minimum of 10 working days prior to the planned start of the work.

The Contractor shall use AASHTO T99C for their mix design. The mixture design shall determine: optimum moisture content (include source of external water), the gradation correction by addition of aggregates (if required), and the percent by weight (theoretical design percentage) of an approved stabilizing agent content to achieve 200 psi (minimum; 300 psi maximum) compressive strength in 7 days.

**Compressive Strength Testing:** Random core locations will be selected by the Engineer for verification of compressive strength. The Contractor shall core the locations and provide the cores to the Engineer for testing at 7 days.

### **Construction:**

**Equipment.** The equipment shall be capable of reclaiming in-place bituminous overlays and road base materials to a depth of 15 inches and pulverizing them down to the gradation as defined above. Two passes with the reclaiming equipment shall be required; the first pass shall be to pulverize the roadway and the second pass shall include the stabilizing agent. The contractor shall only pulverize an area that will have the stabilizing agent added and mixed in the same day. Only a single lane shall be pulverized at a time to ensure the least practical obstruction to the traveling public. When the adjoining lane is pulverized, the lane already reclaimed shall be overlapped 6 inches. The adjoining lane shall be used as a reference for the finished grade at the centerline of the roadway unless otherwise shown on the Plans or as directed by the Engineer. When the adjoining lane is pulverized, it shall overlap a minimum of 6 inches with the adjacent lane that has already been reclaimed.

Only up-cutting equipment shall be used and it shall be capable of automatically metering additives with a variation of not more than plus or minus two percent by weight of liquids. The stabilizing agent shall be applied by use of a mobile cement mixer trailer capable of mixing a predetermined ratio of cement and water, or by means of a cyclone screw-type, pressure-manifold type distribution or method as approved by the Engineer. It will also be acceptable to complete the dosing and mixing operations simultaneously in-place.

Prior to starting the mixing operation, the yield of the stabilizing agent will be verified with the Engineer. The Contractor shall propose their method for verification of the stabilizing agent to the Engineer for approval. Any associated equipment required for the verification shall be provided by the Contractor and approved by the Engineer. The Contractor shall provide the percent of stabilizing agent in both a percent per cubic yard and a pounds per square yard.

**Mixing.** If imported material is required to address profile deficiencies, the specific aggregate fractions to be added shall be spread onto the carriageway before the first pass of the reclaimer. The contractor shall break down, pulverize, and mix the pavement and aggregate to a depth that will result in a compacted thickness of 6 inches (unless shown otherwise on the Plans). Pulverized material shall be shaped to rough grade, desired cross-slope, and profile. Apply the designed quantity of stabilizing agent and water to assure proper compaction.

Cutting depth shall be measured for each 7500 feet or less. Any section deficient 1 inch or more from the specified depth shall be corrected at no expense to the Department.

### **Mixing Cement with Pulverized Materials**

The contractor may perform initial dry mixing of the cement with the existing roadbed materials or may inject moisture into the mixing chamber of the mixing/pulverizing equipment during the first mixing. Water shall not be added by a spray bar from a water truck directly onto the unmixed cement spread. The cement shall be thoroughly mixed with the pulverized roadbed materials to provide a uniform distribution of the cement throughout the mixture.

### **Mixing Water with Cement and Pulverized Materials**

If the Contractor does not inject moisture into the mixing chamber of the pulverizer/mixer during the first mixing, the pulverizer/mixer shall then be used to mix water into the mixture of cement and pulverized roadbed materials. The mixing shall be completed in one or more continuous pass(es) of the mixing unit. The mixture of the water, cement and pulverized roadbed materials shall be within the tolerance limits of optimum moisture content and shall be in a condition suitable for immediate compaction without further mixing or grading. For mixing units that inject moisture into the mixing chamber, a gage or gages shall

be provided to allow the continuous monitoring of the amount of water that is applied. When the mixer will handle only a part of the roadbed width, the successive increments shall be of such length that the full width of treated material may be promptly mixed, compacted and finished, with not more than 30 minutes between mixing adjacent paths (if pulverizer width is less than lane width). The asphalt and cement mix shall not remain undisturbed after mixing and before compaction for more than 30 minutes. When the uncompacted mixture is made too wet by the addition of too much water, or by rain, and the moisture content exceeds the specified tolerance for compaction, the entire affected section shall be remixed at the Contractor's expense in an effort to dry the mixture through aeration.

**Grading & Compaction.** After the surface is finished in conformity to the lines and grades shown on the plans, compaction shall be completed using pad-foot and steel wheeled vibratory rollers. The vibratory pad-foot roller shall perform the initial breakdown rolling. After initial breakdown rolling and steel drum compaction, the base course shall be fine graded and rolled using the steel drum roller in static mode. The pad foot roller will not be used again on any section that has been fine graded. The area shall be graded and compacted within 2 ½ hours after the addition and mixing of the stabilizing agent.

The material shall be placed and compacted with the moisture content in the range from optimum moisture content to minus two percent of optimum. The contractor shall have available independent testing lab personnel, approved by the Engineer, on the site to perform moisture content checks at the discretion of the Engineer.

The rolling operations shall be based on the control strip method of density control. The control strip shall be constructed of mixture produced with the reclamation equipment and within the pavement section. The Contractor shall construct at least two (2) control strips by varying the roller sequence to achieve maximum density. Compact the remaining recycled mixture to a target density of at least 96% of the highest average control strip density. Whenever there is a change in the reclaimed materials or compaction method or equipment, or when unacceptable results occur, at least two (2) new test control strips shall be constructed by varying the roller sequence to achieve maximum density. The in-place density of each compacted course shall be determined in accordance with AASHTO T191 or AASHTO T238.

In addition, the Contractor's testing lab shall perform a proctor test on the first day of production, when conditions change, and at a minimum of one per 500 cubic yards (2250 feet assuming 12 feet wide and 6 inches deep) of material stabilized.

Excess material from the operation shall be removed and disposed of in an approved manner by the Contractor.

**Surface Tolerances:** When directed by the Engineer, the completed layer shall be tested for smoothness and accuracy of grade. Difference of level between any two points of the surface, controlled by the 10-foot straightedge, shall not exceed 0.5 inch.

**Protection:** Protect any finished portion of the base course to prevent marring, distortion or damage of any kind from construction equipment. The contractor shall immediately correct any such damage to the satisfaction of the Engineer.

**Curing:** Stabilized layers shall be allowed to cure for 7 days after final compaction has been completed. Surfaces shall be protected from drying by an asphalt emulsion applied at a rate of 0.02 - 0.03 gal/square foot and blotting sand as needed. During curing, the surface may be open to traffic and therefore, the Contractor shall take into consideration the restrictions in the approved traffic control plan.

**Weather Conditions:** The stabilization work shall NOT be conducted when raining and shall be conducted when the air and ground temperature is at least 45°F and rising and the low temperature is not forecast to fall below 32°F within 72 hours after reclamation.

#### **Method of Measurement:**

The quantity of stabilized pavement will be measured as the actual number of square yards of pavement stabilized and accepted.

The quantity of graded aggregate base course or RAP added will be measured by the ton in accordance

with Subsection 302.05 of the Standard Specifications.

The quantity of cement will be measured in accordance with a Subsection 109.01 of the Standard Specifications as the number of tons of cement used in the completed and accepted stabilized pavement not to exceed, in the proportion of the mix for payment purposes, more than 10% of the theoretical design percentage.

There will be no measurement for water or any stabilizing agents other than cement.

**Basis of Payment:**

The quantity of stabilized pavement will be paid for at the Contract unit price per square yard. Price and payment will constitute full compensation for sampling, designing the mix, furnishing water and stabilizing agents (other than cement), pulverizing the subgrade, mixing, compacting, furnishing and applying curing materials, and for all labor, equipment, tools and incidentals required to complete the work.

The quantity of graded aggregate base course or RAP will be paid for at the Contract unit price per ton. Price and payment will constitute full compensation for furnishing and spreading the material.

The quantity of cement will be paid for at the Contract unit price per ton. Price and payment will constitute full compensation for furnishing, mixing the cement with water, applying the cement water mix, and for all labor, equipment, tools and incidentals required to complete the work.

7/28/09

CONTRACT ID: T201206309.01 PROJECT(S): ESTP-2013(04)

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 Category 0001

0010	302005 GRADED AGGREGATE BASE COURSE, TYPE B	650.000 TON				
0020	304508 BITUMINOUS STABILIZED FULL-DEPTH RECLAMATION	64500.000 SY				
0030	401636 COLD RECYCLED BITUMINOUS PAVEMENT	693393.000 SYIN				
0040	401696 ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	1700.000 TON				
0050	401713 EMULSIFIED ASPHALT	505447.000 GAL				
0060	401801 WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	20400.000 TON				
0070	401823 WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1380.000 TON				
0080	401827 WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	23100.000 TON				

CONTRACT ID: T201206309.01 PROJECT(S): ESTP-2013(04)

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0090	402000 HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	TON 225.000				
0100	406001 WARM-MIX PATCHING	SYIN 23700.000				
0110	708060 REPLACE DRAINAGE INLET GRATE(S)	EACH 6.000				
0120	708061 REPLACE DRAINAGE INLET FRAME(S)	EACH 6.000				
0130	710001 ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	EACH 7.000				
0140	710002 ADJUSTING AND REPAIRING EXISTING MANHOLE	EACH 8.000				
0150	732004 TOPSOIL (TON)	TON 3015.000				
0160	734013 PERMANENT GRASS SEEDING, DRY GROUND	SY 36415.000				
0170	743004 FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	EADY 40.000				

CONTRACT ID: T201206309.01 PROJECT(S): ESTP-2013(04)

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0180	743010 FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	188.000 EADY				
0190	743052 FLAGGER, SUSSEX COUNTY, STATE	6700.000 HOUR	46.94000		314498.00	
0200	743064 FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	709.000 HOUR	68.06000		48254.54	
0210	748015 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	1300.000 SF				
0220	748019 TEMPORARY MARKINGS, PAINT, 4"	813598.000 LF				
0230	748026 TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	1300.000 SF				
0240	748502 RAISED/RECESSED PAVEMENT MARKER	1150.000 EACH				
0250	748548 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	406849.000 LF				
0260	750000 ADJUST WATER VALVE BOXES	8.000 EACH				
0270	760012 RUMBLE STRIPS, BIKE-FRIENDLY, HOT-MIX	92250.000 LF				

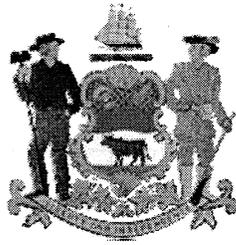
CONTRACT ID: T201206309.01 PROJECT(S): ESTP-2013(04)

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0280	760502 PAVEMENT MILLING, TAPER CUT	5900.000 SYIN				
0290	760507 PROFILE MILLING, HOT-MIX	36500.000 SYIN				
0300	761001 BUTT JOINTS, HOT MIX	9000.000 SY				
0310	762001 SAW CUTTING, HOT MIX	9900.000 LF				
0320	763000 INITIAL EXPENSE	LUMP	LUMP			
0330	763502 MAINTENANCE OF RAILROAD TRAFFIC	LUMP	LUMP			
0340	763643 MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP	LUMP			
0341	304506 PORTLAND CEMENT	259.000 TON				
	SECTION 0001 TOTAL					
	TOTAL BID					

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRANSPORTATION SOLUTIONS  
PLANS AND SPECIFICATIONS FOR

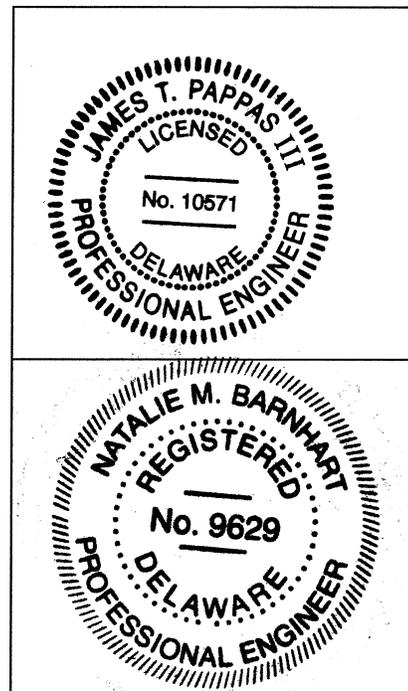
CONTRACT NUMBER - T201206309.01 SOUTH MAINTENANCE  
FEDERAL AID NUMBER - ESTP-2013(04) PRIMAVERA ID - 12-06309  
CONTRACT TITLE - PAVEMENT & REHABILITATION - SOUTH II-IX, 2012 PAGE 1 OF 25

PLANS PREPARED BY: Paul Farkas  
DESIGN TECHNICIAN

DATE RECOMMENDED: 7/26/2013  
Bradford L. Salvo  
GROUP ENGINEER, CONSTRUCTION

DATE RECOMMENDED: 7.29.13  
James T. Pappas III  
ASSIST. DIRECTOR, DESIGN

DATE RECOMMENDED: 7/29/13  
Natalie Barnhart  
CHIEF ENGINEER



DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206309

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SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-IX, 2012

LOCATION 1 LAUREL ROAD, DE 24 (S24) FROM CAREYS CAMP ROAD (S421) TO HOT-MIX JOINT  
EAST OF US 13, SUSSEX HWY.

COMMENTS:

- 1. RECOMMENDED TRAFFIC CONTROL: TA-10 (OVERLAY)  
TA-10 (CIPR)
- 2. DAYTIME WORK HOURS: 8:00A - 6:00P.
- 3. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
- 4. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
- 5. 2" MILL FULL WIDTH 100' IN EACH DIRECTION FROM CENTER LINE OF CULVERTS/BRIDGES AND PLACE BACK 2" HOT-MIX TYPE C OVERLAY OR AS DIRECTED BY THE FIELD ENGINEER.
- 6. PLACE BIKE FRIENDLY SHOULDER RUMBLESTRIPS AS DIRECTED BY THE FIELD ENGINEER, REFERENCE DETAIL SHEET.
- 7. PLACE SAFETY EDGE WHERE APPLICABLE, REFERENCE DETAIL SHEET.
- 8. COLD IN PLACE RECYCLING NOTES  
=====
- A. COLD IN PLACE RECYCLING IS LIMITED TO THE TRAVEL LANES ONLY, TOTAL WIDTH IS 22FT.
- B. THE SHOULDERS ARE TO BE HOT-MIX PATCHED AS DIRECTED BY THE FIELD ENGINEER.
- C. SEE ATTACHED PAGES 17A - 17E FOR CORE INFORMATION.
- D. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE COLD IN PLACE RECYCLING OPERATION.
- 3 E. A ENGINEERED DESIGN EMULSION MIX SHALL BE USED FOR THIS LOCATION, INCIDENTAL TO ITEM 401713, EMULSIFIED ASPHALT.

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THIS LOCATION SHALL MEET THE TOLERANCES OF SUBSECTION 401580 - RIDE QUALITY OF HOT-MIX PAVEMENT REQUIREMENTS, AS SPECIFIED IN THE SPECIAL PROVISIONS.  
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ADDENDUM No. 3 - Added Note - (10/9/13-PGF)

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206309

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SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-IX, 2012

**LOCATION 2** RIVER ROAD (S490) - (BLADES) FROM HOT-MIX JOINT ON RIVER ROAD (S490A) WEST OF HOLLY SHORES/CLARK ROAD (S490) TO HOT-MIX JOINT @ RAILROAD TRACKS.

LENGTH 3070.8600 m 10075.0000 L.F. AADT 993

**GENERAL IMPROVEMENTS**

6" FULL DEPTH RECLAMATION AND 2" WARM-MIX TYPE C (64-22,C) FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 2**

302005	GRADED AGGREGATE BASE COURSE, TYPE B	100.00 TON
304506	 PORTLAND CEMENT	99.00 TON
304508	BITUMINOUS STABILIZED FULL-DEPTH RECLAMATION	24,700.00 S.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	500.00 TON
401713	EMULSIFIED ASPHALT	74,100.00 GAL
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	3,400.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	25.00 TON
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00 EACH
732004	TOPSOIL (TON)	280.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	3,360.00 S.Y.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	26.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	900.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	90.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	500.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	80,600.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	300.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	40,300.00 L.F.
760502	PAVEMENT MILLING, TAPER CUT	1,600.00 SY-IN
760507	PROFILE MILLING, HOT-MIX	10,000.00 SY-IN
761001	BUTT JOINTS, HOT MIX	2,700.00 S.Y.
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00 L.S.

\*\* DENOTES FIXED PRICE ITEM

ADDENDUM No. 3 – Added Item - (10/9/13-PGF)

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206309

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SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-IX, 2012

LOCATION 2 RIVER ROAD (S490) - (BLADES) FROM HOT-MIX JOINT ON RIVER ROAD (S490A)  
WEST OF HOLLY SHORES/CLARK ROAD (S490) TO HOT-MIX JOINT @ RAILROAD  
TRACKS.

COMMENTS:

- 1. RECOMMENDED TRAFFIC CONTROL: TA-10 (OVERLAY)  
TA-20 (FDR) - ROAD CLOSURE WITH DETOUR  
TA-46 (RAILROAD)
- 2. DAYTIME WORK HOURS: 8:00A - 6:00P.
- 3. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
- 4. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
- 5. 2" MILL FULL WIDTH 100' IN EACH DIRECTION FROM CENTER LINE OF CULVERT/BRIDGE AND PLACE BACK 2" HOT-MIX TYPE C OVERLAY OR AS DIRECTED BY THE FIELD ENGINEER.

6. M.O.R. NOTES

- A. NORFOLK SOUTHERN  
.2 PER DAY (FREIGHT)\*  
.2 PER NIGHT (FREIGHT)\*

\*NO PASSENGER SERVICE IS INVOLVED.

B. 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.)

7. FULL DEPTH RECLAMATION NOTES

A. ROAD CLOSURE WILL BE PERMITTED FOR RECLAMATION OPERATIONS "ONLY". REFERENCE ATTACHED TRAFFIC SECTION APPROVED DETOUR PLANS FOR PHASING. RECOMMENDED TRAFFIC CONTROL NO. TA-10 FOR REMAINDER OF OPERATIONS.

B. STABILIZATION MUST OCCUR ON THE SAME DAY AS THE RECLAMATION.

C. SEE ATTACHED PAGES 19A - 19B FOR CORE INFORMATION.

3 D. A ENGINEERED DESIGN EMULSION MIX SHALL BE USED FOR THIS LOCATION, INCIDENTAL TO ITEM 401713, EMULSIFIED ASPHALT.

3 E. THE ADDITION OF PORTLAND CEMENT ITEM 304506 TO THE APPROVED MIX DESIGN IS TO AID IN THE CURING PROCESS.

ADDENDUM No. 3 - Added Notes - (10/9/13-PGF)

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-IX, 2012

**LOCATION 3 CYPRESS ROAD (S60) FROM DAISEY ROAD (S417) TO US 113, DUPONT BLVD.**

LENGTH 8930.6400 m 29300.0000 L.F. AADT 1441

**GENERAL IMPROVEMENTS**

6" FULL DEPTH RECLAMATION AND 2" WARM-MIX TYPE C (64-22,C) FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 3**

302005	GRADED AGGREGATE BASE COURSE, TYPE B	200.00 TON
304506	 PORTLAND CEMENT	160.00 TON
304508	 BITUMINOUS STABILIZED FULL-DEPTH RECLAMATION	39,800.00 S.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	400.00 TON
401713	 EMULSIFIED ASPHALT	119,320.00 GAL
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	10,000.00 TON
401823	 WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1,080.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	75.00 TON
406001	 WARM-MIX PATCHING	18,700.00 SY-IN
708060	REPLACE DRAINAGE INLET GRATE(S)	6.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	6.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00 EACH
732004	TOPSOIL (TON)	810.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	9,770.00 S.Y.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	59.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	2,360.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	235.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	200.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	234,500.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	200.00 S.F.
748502	RAISED/RECESSED PAVEMENT MARKER	550.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	117,300.00 L.F.
750000	ADJUST WATER VALVE BOXES	8.00 EACH
760502	PAVEMENT MILLING, TAPER CUT	800.00 SY-IN
760507	PROFILE MILLING, HOT-MIX	5,500.00 SY-IN
761001	BUTT JOINTS, HOT MIX	1,200.00 S.Y.
762001	 SAW CUTTING, HOT MIX	8,400.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

**ADDENDUM No. 3 – Added Items & Revised Quantities - (10/9/13-PGF)**

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-IX, 2012

LOCATION 3 CYPRESS ROAD (S60) FROM DAISEY ROAD (S417) TO US 113, DUPONT BLVD.

COMMENTS:

- 1. RECOMMENDED TRAFFIC CONTROL: TA-10 (OVERLAY)  
TA-20 (FDR) - ROAD CLOSURE WITH DETOUR
- 2. DAYTIME WORK HOURS: 8:00A - 6:00P.
- 3. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
- 4. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
- 5. 2" MILL FULL WIDTH 100' IN EACH DIRECTION FROM CENTER LINE OF CULVERTS/BRIDGES AND PLACE BACK 2" HOT-MIX TYPE C OVERLAY OR AS DIRECTED BY THE FIELD ENGINEER.

6. FULL DEPTH RECLAMATION NOTES

=====

- A. ROAD CLOSURE WILL BE PERMITTED FOR RECLAMATION OPERATIONS "ONLY". REFERENCE ATTACHED TRAFFIC SECTION APPROVED DETOUR PLANS FOR PHASING. RECOMMENDED TRAFFIC CONTROL NO. TA-10 FOR REMAINDER OF OPERATIONS.
- B. STABILIZATION MUST OCCUR ON THE SAME DAY AS THE RECLAMATION.
- C. SEE ATTACHED PAGES 21A - 21D FOR CORE INFORMATION.
- D. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE RECLAMATION OPERATION.

3 E. A ENGINEERED DESIGN EMULSION MIX SHALL BE USED FOR THIS LOCATION, INCIDENTAL TO ITEM 401713, EMULSIFIED ASPHALT.

3 F. THE ADDITION OF PORTLAND CEMENT ITEM 304506 TO THE APPROVED MIX DESIGN IS TO AID IN THE CURING PROCESS.

3 G. LIMITS OF THE FULL DEPTH RECLAMATION ARE FROM US113 TO THE CYPRESS SWAMP TREELINE. APPROX. 16,270LF. THE REMAINING LIMITS SHALL BE WARM-MIX PATCHED AS NEEDED AND OVERLAY.

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ADDENDUM No. 3 - Added Notes - (10/9/13-PGF)

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-IX, 2012

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LOCATION 4 WHITESVILLE ROAD (S64) FROM BRITTINGHAM ROAD (S455) TO WHALEYS ROAD (S62)

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COMMENTS:

1. RECOMMENDED TRAFFIC CONTROL: TA-10 (OVERLAY)  
TA-10 (CIPR)
  2. DAYTIME WORK HOURS: 8:00A - 6:00P.
  3. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
  4. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
  5. 2" MILL FULL WIDTH 100' IN EACH DIRECTION FROM CENTER LINE OF CULVERTS/BRIDGES AND PLACE BACK 2" HOT-MIX TYPE C OVERLAY OR AS DIRECTED BY THE FIELD ENGINEER.
  6. PLACE SAFETY EDGE WHERE APPLICABLE, REFERENCE DETAIL SHEET.
  7. COLD IN PLACE RECYCLING NOTES  
=====
  - A. SEE ATTACHED PAGES 23A - 23D FOR CORE INFORMATION.
  -  B. A ENGINEERED DESIGN EMULSION MIX SHALL BE USED FOR THIS LOCATION, INCIDENTAL TO ITEM 401713, EMULSIFIED ASPHALT.
- =====

**ADDENDUM No. 3 – Added Note - (10/9/13-PGF)**

**DELAWARE DEPARTMENT OF TRANSPORTATION**

**CONTRACT: T201206309**

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**SOUTH PAVEMENT & REHABILITATION, SOUTH II-IX, 2012  
MAINTENANCE**

**CONTRACT QUANTITIES SUMMARY SHEET**

	302005	GRADED AGGREGATE BASE COURSE, TYPE B	650.00 TON
3	304506	PORTLAND CEMENT	259.00 TON
3	304508	BITUMINOUS STABILIZED FULL-DEPTH RECLAMATION	64,500.00 S.Y.
3	401636	COLD RECYCLED BITUMINOUS PAVEMENT	693,393.00 SY-IN
	401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	1,700.00 TON
	401713	EMULSIFIED ASPHALT	505,447.00 GAL
	401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	20,400.00 TON
3	401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1,380.00 TON
	401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	23,100.00 TON
	402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	225.00 TON
3	406001	WARM-MIX PATCHING	23,700.00 SY-IN
	708060	REPLACE DRAINAGE INLET GRATE(S)	6.00 EACH
	708061	REPLACE DRAINAGE INLET FRAME(S)	6.00 EACH
	710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	7.00 EACH
	710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	8.00 EACH
	732004	TOPSOIL (TON)	3,015.00 TON
	734013	PERMANENT GRASS SEEDING, DRY GROUND	36,415.00 S.Y.
	743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	40.00 EA-DY
	743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	188.00 EA-DY
	743052	** FLAGGER, SUSSEX COUNTY, STATE	6,700.00 HOUR
	743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	709.00 HOUR
	748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	1,300.00 S.F.
	748019	TEMPORARY MARKINGS, PAINT, 4"	813,598.00 L.F.
	748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	1,300.00 S.F.
	748502	RAISED/RECESSED PAVEMENT MARKER	1,150.00 EACH
	748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	406,849.00 L.F.
	750000	ADJUST WATER VALVE BOXES	8.00 EACH
	760012	RUMBLE STRIPS, BIKE-FRIENDLY, HOT-MIX	92,250.00 L.F.

**ADDENDUM No. 3 – Added Item & Revised Quantities - (10/9/13-PGF)**

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DELAWARE DEPARTMENT OF TRANSPORTATION

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SOUTH PAVEMENT & REHABILITATION, SOUTH II-IX, 2012  
MAINTENANCE

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CONTRACT QUANTITIES SUMMARY SHEET

760502	PAVEMENT MILLING, TAPER CUT	5,900.00 SY-IN
760507	PROFILE MILLING, HOT-MIX	36,500.00 SY-IN
761001	BUTT JOINTS, HOT MIX	9,000.00 S.Y.
 762001	SAW CUTTING, HOT MIX	9,900.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00 L.S.
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

\*\* DENOTES FIXED PRICE ITEM

ADDENDUM No. 3 – Revised Quantity - (10/9/13-PGF)