# STATE OF LOUISIANA
## Competitive Contract

Vendor: 310032336
Company
Glenn Lege Construction, Inc.
Corporation
1339 Fortune Road
Youngsville LA 70592
Phone : 337-233-3406
Fax : 337-856-5221

T Number:
Version: 1
LAPS Contract: No
Fiscal Year: 2014
Min.Ord.Value: 0.00
Distributor Contract: No
PCard:No
Co-op Agreement:Yes

**Buyer Information**
Name: TIFFANY LAMBERT
Tel Number: 225-379-1410
Email: tiffany.lambert@la.gov

Contract number: 4400004851
Description: DOTD Asphaltic Mixture F/Hot Application

SEBD Vendor: No
SEHI Vendor: No
VSE Vendor: No
DVSE Vendor: No
Contract Valid Dates:
03/01/2014 - 08/31/2014

**Supplier Text:** Delivery ARO: As Required

This is not an order. This contract is for a period of six (6) months beginning March 1, 2014 through August 31, 2014 to furnish Asphaltic Mixture for Hot Application. The contract has been awarded to you based on the bid submitted. All terms, conditions and specifications of the solicitation will apply to all orders.

Material will be ordered on an as needed basis. An official Purchase Order will be issued for actual quantities needed prior to pick-up by the Department. No quantities are guaranteed. The Department reserves the right to increase or decrease quantities at the same prices, terms and conditions for the period of the contract.

Please note, quantity is desginated as "1" to show price per ton.

Aggregates must be from an approved source listed on Qualified Products List No. 2. Polymer Modified Asphalt PAC 40HG and PAC 30 must be from an approved source listed on Qualified Products List No. 41.

Subject to laboratory test before final acceptance.

Any or all item(s) on this contract may be cancelled with thirty (30) days written notice.

A 1% discount will be given for payment(s) made within 30 days.

**Notice to Vendor:**

**Recommending Approval:** Tiffany Lambert **Approved by:** Charlotte Garrison

| Line | Material No.<br>----------<br>Supplier Part No. | Description | Prod. Cat. | UOM | Net Price | Discount |
|---|---|---|---|---|---|---|
| 1 | 11505 | ASPHALTIC MIXTURE,F/HOT APPL,REGULAR<br><br>DOTD SPEC MS 164-002, 2/97<br><br>PLANT LOCATION: Vermillion Parish<br>PLANT CERTIFICATION CODE: H338 | 30121500 | TON | 70.00000 | |
| 8 | 11506 | ASPHALTIC MIXTURE,F/HOT APPL,PAC30<br><br>POLYMER MODIFIED, DOTD SPEC MS 164-004, 11/95<br><br>PLANT LOCATION: Vermillion Parish<br>PLANT CERTIFICATION CODE: H338 | 30121500 | TON | 73.00000 | |

## Standard Terms and Conditions

1. THIS IS NOT AN ORDER TO SHIP (OR BEGIN SERVICE). A CONTRACT RELEASE OR PURCHASE ORDER MUST BE ISSUED BEFORE YOU ARE AUTHORIZED TO SHIP (OR BEGIN SERVICE).

2. THIS IS NOTICE THAT THE CONTRACT REFERENCED ABOVE HAS BEEN AWARDED TO YOU BASED ON THE BID (OR PROPOSAL) SUBMITTED. ALL TERMS, CONDITIONS, AND SPECIFICATIONS OF THE SOLICITATION WILL APPLY TO ALL ORDERS.

3. ANY AGENCY AUTHORIZED TO PURCHASE FROM THIS CONTRACT MUST ISSUE AN ORDER AND REFERENCE THE CONTRACT NUMBER, LINE NUMBER AND COMMODITY ITEM NUMBER FOR EACH ITEM.

4. CHANGES IN ITEMS TO BE FURNISHED ARE NOT PERMITTED (UNLESS APPROVED BY THE ISSUING AGENCY PRIOR TO DELIVERY). PRIOR APPROVAL MUST ALSO BE OBTAINED BEFORE DISTRIBUTORS CAN BE ADDED OR DELETED.

5. IF A DISTRIBUTOR LIST WAS SUBMITTED, CONTRACTOR MUST SEND COPIES OF THIS AWARD TO EACH DISTRIBUTOR.

6. QUANTITIES LISTED ARE ESTIMATED AND NO QUANTITIES ARE GUARANTEED (UNLESS "COMMITTED VOLUME" IS SPECIFICALLY STATED). CONTRACTOR MUST SUPPLY ACTUAL REQUIREMENTS ORDERED AT THE CONTRACT PRICE AWARDED.

7. COMPLIANCE WITH CIVIL RIGHTS LAWS.

   THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS OF THE FOLLOWING AS APPLICABLE: TITLE IV AND TITLE VII OF THE CIVIL RIGHTS ACT OF 1964, AS AMENDED BY THE EQUAL OPPORTUNITY ACT OF 1972, FEDERAL EXECUTIVE ORDER 11246,THE FEDERAL REHABILITATION ACT OF 1973, AS AMENDED, THE VIETNAM ERA VETERAN'S READJUSTMENT ASSISTANCE ACT OF 1974, TITLE IX OF THE EDUCATION AMENDMENTS OF 1972, THE AGE ACT OF 1975, AND CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS OF THE AMERICANS WITH DISIBILITIES ACT OF 1990. CONTRACTOR AGREES TO NOT TO DISCRIMINATE IN ITS EMPLOYMENT PRACTICES, AND WILL RENDER SERVICES UNDER THIS AGREEMENT AND ANY CONTRACT ENTERED INTO AS A RESULT OF THIS AGREEMENT, WITHOUT REGARD TO RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, VETERAN STATUS, POLITICAL AFFILIATION, OR DISABILITIES. ANY ACT OF DISCRIMINATION COMMITTED BY CONTRACTOR OR FAILURE TO COMPLY WITH THESE STATUTORY OBLIGATIONS WHEN APPLICABLE SHALL BE GROUNDS FOR TERMINATION OF THIS AGREEMENT AND ANY CONTRACT ENTERED INTO AS A RESULT OF THIS AGREEMENT.

# STATE OF LOUISIANA
# DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
# SPECIAL CONDITIONS AND SPECIFICATIONS
# FOR FURNISHING
# ASPHALTIC MIXTURE FOR HOT APPLICATION

Please read the following instructions and special conditions and specifications carefully. Any deviation may cause your bid to be disqualified.

## CONTRACT

Contract for furnishing Asphaltic Mixture for Hot Application as requested in accordance with provisions set forth for the six (6) month period as specified herein.

## PURPOSE AND INTENTION

The purpose and intention of this invitation to bid is to comply with State laws and establish a contract between the Department and the successful bidder(s), whereby the Department may purchase Asphaltic Mixture for Hot Application from the contractor as shown herein.

## CONTRACT PROPOSAL FORM

The contract form in its entirety shall become a part of the contract upon execution by the Department. Bidder shall fill in this form completely and shall sign in the appropriate places and return to the Procurement Section of the Department of Transportation and Development before the time set for receiving contracts on the front hereof. Bidders are advised that bids mailed through the U.S. Postal Service to our post office box are received at the Baton Rouge Main Post Office and are picked up by the Division of Administration and then routed to the Department of Transportation and Development; therefore, extra delivery time is needed in order for bids to be received and time-stamped in our office before the bid deadline.

Bids may be mailed through the U.S. Postal Service to our box at:

DOTD Procurement Section

Headquarters Administration

4th Floor East Wing S-447

P. O. Box 94245

Baton Rouge, LA 70804-9245

Bids may be delivered by hand or courier service to our physical location as follows:

DOTD Procurement Section

Headquarters Administration

4th Floor East Wing S-447

1201 Capitol Access Road

Baton Rouge, LA 70802

Bidders are solely responsible for ensuring that its courier service provider makes inside deliveries to our physical location. The DOTD Procurement Office is not responsible for any delays caused by the bidder's chosen means of delivery. Bidder is solely responsible for the timely delivery of its bid. Failure to meet the bid opening date and time shall result in rejection of the bid. **Note: The time set for receiving proposals is Central Standard Time (CST).**

## SCOPE OF WORK

Scope of work includes labor, materials, and services required to produce Asphaltic Mixture for Hot Application which is acceptable to the Department of Transportation and Development.

## QUANTITIES

No specific quantities are given or guaranteed, only such Asphaltic Mixture for Hot Application as required by the Department of Transportation and Development during the contract period will be ordered.

The successful bidder must supply at bid price actual quantities as ordered whether the total of such quantities are more or less than the quantities shown in the Bid Schedule.

Both regular and polymer modified asphaltic mixture will be available for use by the Department. It will be at each District Administrator's option of which product to purchase.

## SPECIFICATIONS

All Asphaltic Mixture for Hot Application must be in accordance with DOTD Specification No. MS 164-002, Dated February, 1997 and Polymer Modified Asphaltic Materials, DOTD Specification No. MS 164-004, Dated November, 1995. Materials failing to meet the specifications will be paid according to the price adjustment schedule shown. If performance of the materials continues to be unsatisfactory, the Department reserves the right to cancel the contract.

## PRE-QUALIFICATION REQUIREMENTS

Bidder's plant for supplying Asphaltic Mixture for Hot Application must be certified prior to award. After the award of the contract, it will be the responsibility of each District to make sure the bidder's plant is still certified before material is picked up at various plant locations throughout the life of the contract.

## STANDARDS OF QUALITY

Any product or service bid shall conform to all applicable Federal and State laws and regulations and the specifications contained herein.

## GUARANTEE AND LIABILITY

The contractor accepts the following guarantees:

(1) Guarantee that the supplies delivered are free from defects in design and construction.

(2) Guarantee that the supplies are the manufacturer's standard design in construction and that no changes or substitutions have been made in the items listed in this contract.

The contractor holds and saves the State, its officers, agents, and employees harmless from liability of any kind, including cost and expenses on account of any patented or unpatented invention, articles, devices or appliances manufactured or used in the performance of this contract, including use by the government.

The contractor agrees to replace free of charge all defective equipment, materials or supplies delivered under this contract. All transportation charges covering return and replacement shall be paid by the contractor.

## PRICES

All prices quoted shall be in the unit of measure as shown on the Bid Schedule and shall remain firm for the contractual period. Unit price bid must not exceed two digits to right of decimal point. Unit price submitted beyond two digits will be rounded off to the nearest second digit.

Prices quoted shall include all costs incidental to any license or patent that may be held by any company processing the materials bid on and the dealer agrees to hold the Department of Transportation and Development harmless from any claims, suits, costs or penalties for infringement or use of licensed or patented products.

## BID OPENING

Bids will be publicly opened and read but no information or opinions concerning the ultimate contract award will be given at the bid opening or during the evaluation process. Bids may be examined 72 hours after bid opening. Information pertaining to completed files may be secured by visiting the Department of Transportation and Development during normal working hours.

## BASIS OF AWARD

The contract for furnishing Asphaltic Mixture for Hot Application herein specified for the period indicated shall be awarded to the bidder(s) offering Asphaltic Mixture for Hot Application at plants which have been certified by the Department prior to

award and complying to all details of this contract proposal as determined by the DOTD Procurement Director. It will be up to the District Administrator to select the certified plant closest to the jobsite based upon the unit price bid and the current mileage factor. Mileage will be computed on the basis of $.15 per mile for the first 41 miles, then $.75 per mile thereafter.

Aggregates must be from an approved source listed on Qualified Products List No. 2. A copy of Qualified Products List No. 2 is attached for your reference.

Polymer Modified Asphalt PAC-40HG and PAC 30 must be from an approved source listed on Qualified Products List No. 41. A copy of Qualified Products List No. 41 is attached for your reference.

Plants which are established and certified during the life of the contract may be considered for supplemental award based on factors which are advantageous to the Department of Transportation and Development. The decision will be based on the best interest of the Department as determined by the DOTD Procurement Director. Awards will not be made if plant is within a radius of ten (10) road miles of a plant location which was awarded at the original contract award.

Discounts will not be considered in determining low bidder.

## MATERIAL AVAILABILITY

The successful bidder will be required to have on hand or immediately available an adequate supply of Asphaltic Mixture for Hot Application in order to meet the Department's requirements, as ordered, where ordered, during the life of the contract.

Contractors must be in a position to furnish Asphaltic Mixture for Hot Application as requested by District Administrator.

It will be the responsibility of the contractor to give the District Administrator a forty-eight (48) hour notice as to when the plant will be out of operation and/or in the event that the plant is shut down permanently.

## PURCHASE ORDERS

Purchase Orders will be issued by the Department of Transportation and Development. Each Purchase Order will state an actual or estimated quantity that is required and all other pertinent data necessary to assist the contractor to make proper delivery. In no event shall delivery be made without proper authorization.

## INVOICES

Upon each delivery and its acceptance by the Department, the contractor shall bill the Department by means of an invoice and such invoice shall make reference to the Purchase Order Number on which delivery was made.

At the time of delivery, the contractor is to make a delivery receipt on his own form showing complete description, the exact quantity delivered, price and extension. Such delivery ticket must make reference to the Purchase Order Number.

Invoices shall be submitted by the contractor directly to the address shown on the Purchase Order.

Invoice price must agree with contract price.

## PAYMENTS

Invoices will be paid by the Department within the discount period or within thirty calendar days from receipt of correct invoice. If contractor proposes a discount, discount period will start from receipt of correct invoice.

## SAMPLING AND ACCEPTANCE

All Asphaltic Mixture for Hot Application shall be sampled and accepted in accordance with the standard method of sampling asphaltic material as outlined in the Department's Sampling Manual.

## TAXES

The contractor is responsible for including all applicable taxes in the bid price.

State Agencies are exempt from all State and Local Sales and Use Taxes.

## REJECTION OF BIDS

The Department of Transportation and Development reserves the right to reject any and all bids and/or waive any informalities.

## TERMINATION OF CONTRACT

The Department reserves the right to terminate this contract prior to the end of the contract period upon giving a ten (10) day written notice to the contractor for unsatisfactory performance, unsatisfactory delivery, unsatisfactory service, failure to meet specifications, misrepresentation by the contractor, fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the State, conflict of contract provisions with constitutional or statutory provisions of State or Federal Law, and/or any breach of contract.

The Department reserves the right to terminate this contract prior to the end of the contract period upon giving a thirty (30) day written notice to the contractor if it is considered in the best interest of the Department.

Successful contractor may request cancellation of this contract upon giving thirty (30) day written notice to the DOTD Procurement Director.

All orders delivered prior to the effective date of such termination shall be paid for by the Department in accordance with the terms of the contract, whereupon all obligations of both parties to the contract shall cease.

In the event contract contains a provision entitled "Guarantees" such guarantees shall apply to all items delivered prior to termination.

## DEFAULT OF CONTRACTOR

Failure to deliver within the time specified in the bid will constitute a default and may cause cancellation of the contract. Where the State has determined the contractor to be in default, the Department of Transportation and Development reserves the right to purchase any or all products or services covered by this contract on the open market and charge the contractor with cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid from the defaulting contractor will be considered.

## SIGNATURE OF BIDDER

To be considered for an award, all bidders shall fill in the contract proposal completely and shall sign in the appropriate places. Contract proposal form should be returned in its entirety. Acceptance shall be made when signed by the DOTD Procurement Director and copy returned to the contractor.

## APPLICABLE LAW

All contracts shall be construed in accordance with and governed by the Laws of the State of Louisiana, including but not limited to DOTD Purchasing Rules & Regulations, Special Instructions & Conditions and specifications listed in this proposal.

## BIDDERS CERTIFICATION OF EEOC AND ADA COMPLIANCE

The Department of Transportation and Development and the State of Louisiana is an equal opportunity employer and looks to its contractors, subcontractors, vendors and suppliers to take affirmative action to affect this commitment in its operations.

By submitting and signing this bid, bidder certifies that he agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972, Federal Executive Order 11246, Federal Rehabilitation Act of 1973, as amended, the Vietnam ERA Veteran's Readjustment Assistance Act of 1974, Title IX of the Education Amendments of 1972, The Age Act of 1975, and bidder agrees to abide by the requirements of the

Americans with Disabilities Act of 1990.

Bidder agrees not to discriminate in its employment practices and will render services under any contract entered into as a result of this solicitation without regard to race, color, religion, sex, sexual orientation, national origin, veteran status, political affiliation, or disabilities. Any act of discrimination committed by bidder, or failure to comply with these statutory obligations when applicable shall be grounds for termination of any contract entered into as a result of this proposal.

Bidder agrees to keep informed of and comply with all Federal, State and local laws, ordinances and regulations which affect his employees or prospective employees.

## SPECIAL ACCOMMODATIONS

Any person who is a "qualified individual with a disability as defined by the Americans With Disabilities Act who has submitted a bid on this procurement and who desires to attend the bid opening, must notify this office in writing no later than seven (7) working days prior to the bid opening date of their need for special accommodations. If the requested accommodations cannot be reasonably provided, the individual will be so informed prior to the bid opening date.

## INDEMNITY

Contractor agrees, upon receipt of written notice of a claim or action, to defend the claim or action, or take other appropriate measures, to indemnify, and hold harmless, the State, its officers, its agents and its employees from and against all claims and actions for bodily injury, death or property damages caused by the fault of the contractor, its officers, its agents or its employees. Contractor is obligated to indemnify only to the extent of the fault of contractor, its officers, its agents, or employees.

However, the contractor shall have no obligations as set forth above with respect to any claim or action from bodily injury, death or property damages arising out of the fault of the State, its officers, its agents or its employees.

## SIGNATURE AUTHORITY

In accordance with Louisiana Revised Statute 39:1594 (Act 121), the person signing this bid must be:

1. A current corporate officer, partnership member or other individual specifically authorized to submit a bid as reflected in the appropriate records on file with the Secretary of State, or
2. An individual authorized to bind the vendor as reflected by an accompanying corporate resolution, certificate or affidavit, or
3. An individual listed on the State of Louisiana bidder's application as authorized to execute bids.

By signing the bid, the bidder certifies compliance with the above.

By signing the bid, the bidder further certifies compliance with all Instructions to Bidders, terms, conditions and specifications and further certifies that this bid is made without collusion or fraud.

For good cause and as consideration for executing this contract, the contractor hereby conveys, sells, assigns and transfers to the State of Louisiana all rights, title and interest in and to all causes of action it may now or hereafter acquire under the Antitrust Laws of the United States and the State of Louisiana, relating to the particular goods or services purchased or acquired by the State of Louisiana pursuant to the Department of Transportation and Development.

## COOPERATIVE PURCHASE AGREEMENT

State Agencies, Political Subdivisions of the State and Quasi State Agencies may be permitted to purchase from contracts made by the Department of Transportation and Development's Procurement Section.

The Bidder may, at his option, accept this Cooperative Purchase Agreement so that any contract awarded under this proposal will apply to other State Agencies, Political Subdivisions or Quasi Agencies.

Bidder hereby accepts this Cooperative Purchase Agreement so that any contract awarded will apply to other State Agencies, Quasi State Agencies or other Political Subdivisions of the State.

_____ Yes, I agree to accept Cooperative Purchase Agreement

_____ No, I do not accept Cooperative Purchase Agreement

Failure to mark "no" on the above will constitute acceptance of this Cooperative Purchase Agreement to other State Agencies, Political Subdivisions of the State and Quasi State Agencies.

Choosing not to accept this Cooperative Purchase Agreement will have no bearing on the award of the contract.

**ORDERS:** Other State Agencies are to issue contract release orders/purchase orders for the items required, as and when needed.

Political subdivisions of the State and Quasi Agencies who have been authorized by the Office of State Purchasing to purchase from contracts made by the Department of Transportation and Development are to issue their regular purchase orders directly to the Contractor, making reference to the Contract Number, Item Number (if applicable) and Contract Expiration Date.

**CONTRACT ADMINISTRATION:** The Department of Transportation and Development will not monitor, administer or resolve any discrepancies, controversies, invoicing or payments related to this contract on orders placed by other State Agencies, Political Subdivisions or Quasi Agencies.

Controversies between the Department of Transportation and Development and a Contractor will be resolved by the DOTD Procurement Director.

Controversies between other State Agencies and a Contractor will be resolved by the Director of State Purchasing in accordance with R.S. 39:1673.

It will be the responsibility of the ordering entity to correspond directly with the Contractor.

**DELIVERY:** Vendors accepting the Cooperative Purchase Agreement understand and agree that deliveries to other State Agencies, Political Subdivisions or Quasi Agencies will be on a statewide basis.

SAP Material Master No. 11505
(Stock Number 24-05-5120)

MS Spec. 164-002
Dated February 1997
4 Pages

# LOUISIANA
# DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
# SPECIFICATIONS

## ASPHALTIC MIXTURES FOR HOT APPLICATION

### DESCRIPTION:

The material shall consist of a mixture of aggregates and asphalt with additives.

Type 1M (Hard Rock) - Mix shall consist of one of the following combinations: crushed gravel, crushed stone, crushed slag, or a combination of these materials; sand; mineral filler; and asphalt with additives.

Type 6M (Sand) – Mix shall consist of crushed gravel, stone or slag; sand; mineral filler; and asphalt with additives.

### COMPOSITION AND PROPORTIONING:

Aggregates and asphaltic material shall be combined in such proportions that the mixtures shall meet the following requirements:

| Type 1M | % By Weight |
|---|---|
| Aggregates | 93.0 – 95.0 |
| Asphalt | 5.0 – 7.0 |

| Type 6M | % By Weight |
|---|---|
| Aggregates | 91.0 – 94.0 |
| Asphalt | 6.0 – 9.0 |

### MATERIALS:

Test methods shall be latest in effect.

(a) Aggregates: All aggregates, except fine sand, shall be from an approved source on Qualified Products List No. 2. Crushed aggregate shall have a minimum of 70% crushed faces as determined in accordance with DOTD TR 306.

Aggregates shall conform to the following gradation when tested in accordance with DOTD TR-113.

| U. S. Sieve | % Passing By Wt. Type 1M | Type 6M |
|---|---|---|
| 1 Inch | 100 | --- |
| 3/4 Inch | 98 – 100 | --- |
| 1/2 Inch | 90 – 100 | --- |
| 3/8 Inch | 70 – 100 | 100 |
| No. 4 | 50 – 75 | 85 – 100 |
| No. 10 | 32 – 55 | 50 – 75 |
| No. 40 | 16 – 33 | 24 – 40 |
| No. 80 | 10 – 20 | 16 – 28 |
| No. 200 | 6 – 12 | 8 – 18 |

Any approved DOTD wearing course mixture that does not contain PAC-30 or PAC-40HG polymer modified asphalt cements may be substituted for Type 1M mix.

(b) Asphalt: Asphaltic material shall be Grade AC 30 asphalt cement from a source listed on Qualified Products List No. 41, and conforming to Table 1, except as provided elsewhere herein.

(c) Additives: Anti-stripping additive shall be an approved product on Qualified Products List No. 57 added at approximately 0.5% by weight of asphalt cement.

**RECYCLED MIX:**

At the producer's option, reclaimed asphaltic concrete may be used in the mixtures. Mixtures containing reclaimed asphaltic concrete will be subject to the requirements specified herein with the following modifications.

All asphaltic concrete mixtures (except final wearing course mixtures for travel lanes) may contain a maximum of 30% reclaimed asphaltic concrete; this includes mixtures for base course, binder course, and wearing course for shoulders and temporary detour roads. The final wearing course mixture for travel lanes, with or without friction course, may contain a maximum of 15% reclaimed asphaltic concrete; however, such reclaimed material shall contain no expanded clay aggregate.

Reclaimed material shall be stockpiled separately from other materials at the plant and will be subject to approval prior to use. Such stockpiles shall be uniform and free of soil, debris, foreign matter and other contaminants. Reclaimed materials that cannot be readily broken down in the mixing process or that adversely affect paving operations shall be crushed to pass a 2" sieve prior to use.

Mixing shall be performed in either a batch plant or a dryer-drum plant; however, the plant shall be modified as required to permit recycling operations in conformance with air pollution standards. A separate cold feed system, including weight indicating apparatus, shall be provided for recycled material.

The quantity of reclaimed asphaltic concrete used shall be at the contractor's option and shall be designated in the job mix formula. If mixtures contain less than 20% reclaimed materials, Grade AC-30 asphalt cement shall be used. Grade AC-10 asphalt cement shall be used in mixtures containing from 20 to 30% reclaimed materials. The mixture produced shall conform to requirements for the type mixture specified. The Department reserves the right to require the contractor to reduce the percentage of reclaimed asphaltic concrete such that control and acceptance criteria are consistently maintained.

New aggregates shall be dried and heated to a sufficiently high temperature to produce a mixture with a discharge temperature of at least 280° F.

**PREPARATION AND PROCESSING OF MIXTURES:**

Preparation and processing of mixtures shall be in accordance with Sections 501 and 503 of the Standard Specifications. Plants supplying asphaltic mixtures must be certified by the District Laboratory.

**MEASUREMENT AND PAYMENT:**

Asphaltic concrete will be measured and paid for by the ton of 2,000 pounds from printed weights as provided in Section 503.

If asphaltic material does not conform to specifications, the final test results will be applied to the appropriate schedule of Table 1 and any adjustment in unit price will be made as specified. If the test results are such that a penalty would result from more than one test value, only the price adjustment for the greatest reduction will apply.

**SAMPLING:**

Sampling shall be in accordance with the Materials Sampling Manual.

**TABLE 1**
**ASPHALT CEMENT, MODIFIED AASHTO GRADES AC-10 AND AC-30**

| | Test Method | Percent of Contract Unit Price/Ton Of Asphaltic Concrete | | | | | |
|---|---|---|---|---|---|---|---|
| | | AC-10[1] | | | AC-30[1] | | |
| | | Specifications 100 | Deviations 95 | Deviations 90 or Reject[2] | Specifications 100 | Deviations 95 | Deviations 90 or Reject[2] |
| Penetration, 25°C (77°F), 100 g, 5 sec. | AASHTO T-49 | 85+[3] | | 79- | 55+[4] | | 49- |
| Viscosity, 135°C (275°F), SSF[5] | ASTM E-102 | 125+ | | | 175+ | | |
| Viscosity, 135°C (275°F), cSt | AASHTO T-201 | 250+ | 200-249 | 199- | 350+ | 300-349 | 299- |
| Viscosity, 60°C (140°F), Poises | AASHTO T-202 | 1000±200 | | 799-<br>1201+ | 3000±600 | | 2399-<br>3601+ |
| Solubility in Trichloroethylene, % | AASHTO T-44 | 99.0+ | | | 99.0+ | | |
| Flash Point, COC, °C (°F) | AASHTO T-48 | 218(425) | | 217(424)- | 232(450)+ | | 231(449)- |
| Tests on Residue from Thin Film Oven Test: | | | | | | | |
| Viscosity, 60°C (140°F), Poises | AASHTO T-202 | 4000- | | 4001+ | 12000- | | 12000+ |
| Ductility, 25°C (77°F), 5 cm/min. | AASHTO T-51 | 100+ | 70-99 | 69- | 100+ | 70-99 | 69- |
| Thin Film Oven Test, % loss @ 325°F, 5 hr | AASHTO T-179 | 0.50- | | 0.51+ | 0.50- | | 0.51+ |
| Spot Test (Standard Naptha Solvent) | AASHTO T-102 | Neg | | Pos | Neg | | Pos |

[1] All values are inclusive.

[2] At the option of the Department.

[3] For samples obtained at point of delivery, the penetration requirement shall be 80+.

[4] For samples obtained at point of delivery, the penetration requirement shall be 50+.

[5] For samples obtained at point of delivery, the viscosity @ 275° F may be determined using ASTM E 102.

SAP Material Master No. 11506
(Stock Number 24-05-5125)
SAP Material Master No. 11507
(Stock Number 24-05-5130)

MS Spec. 164-004
Dated November 1995
7 Pages

# LOUISIANA
# DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
# SPECIFICATIONS

## POLYMER MODIFIED ASPHALTIC MATERIALS

### DESCRIPTION:

These specifications cover polymer modified asphaltic materials for road maintenance.

### GENERAL REQUIREMENTS:

Polymer modified asphalt shall be prepared by the refining of petroleum. It shall be uniform in character, free from water, and shall not foam when heated to 350°. Asphalt shall be from an approved source on Qualified Products List No. 41.

Storage tanks, piping, retorts, booster tanks, distributors and other equipment used in delivering, storing or handling asphaltic materials shall be kept clean and in good operating condition and shall be operated in such manner as to avoid contamination of the contents with foreign materials.

Test methods shall be the latest in effect in addition to the ones included in this specification. Final test results for polymer modified asphaltic materials will be applied to the proper table herein for conformance to specifications. Any deviation from the specifications will result in a payment adjustment as specified. If test results are such that a price adjustment would result from more than 1 test value, the payment adjustment for the greatest reduction shall apply.

The adjustment in pay for polymer modified asphaltic materials shall be applied only to samples taken at the point of delivery. Samples taken at the refinery shall conform to specification requirements; if the refinery sample fails to meet these requirements, the material will be rejected and shall not be shipped.

### SAMPLING:

Sampling will be in accordance with the Materials Sampling Manual.

## TABLE 1
## POLYMER MODIFIED ASPHALT CEMENTS[1]

| PROPERTY | AASHTO TEST METHOD | PAC-40HG | | | PAC-30 | | |
|---|---|---|---|---|---|---|---|
| | | Specification | Deviation | | Specification | Deviation | |
| APPLICABLE TO ASPHALTIC CONCRETE | | 100 | 95 | 90 or Remove | 100 | 95 | 90 or Remove |
| Penetration @ 25° C, 100 g., 5 sec. | T 49 | 50-75[7] | --- | 44-81+ | 50+[8] | --- | 44- |
| Viscosity[2], @ 60° C, Poise | T 202[9] | 4,000+ | --- | 3,400- | 3,000+ | --- | 2,400- |
| Viscosity @ 135° C, cSt | T 201[9] | 2,000- | 2,001-2,050 | 2,051+ | 2,000- | 2,001-2,050 | 2,051+ |
| Flash Point, ° C | T 48 | 232+ | --- | 230- | 232+ | --- | 230- |
| Solubility[3], % | T 44 | 99.0+ | --- | --- | 99.0+ | --- | --- |
| Separation of Polymer[4] 163° C, 48 hours difference in R & B from top to bottom sample, ° F | --- | 4- | --- | --- | 4- | --- | --- |
| Force Ductility[5] ($f_2/f_1$, 4° C, 5 cm/min., 30 cm elongation) | --- | 0.30+ | --- | 0.29- | --- | --- | --- |
| Force Ductility[5], 4° C, 5 cm/min., 30 cm elongation, lb | --- | --- | --- | --- | 0.50+ | --- | 0.49- |
| Test for Residue from Thin Film Oven Test Penetration Retention, % | T 49 | 50+ | --- | 49- | 50+ | --- | 49- |
| Elastic Recovery[6], 25° C, 10 cm elongation, % | --- | 60+ | --- | 59- | 40+ | --- | 39- |

1 The following specifications shall define either Polymer Modified Asphalt Cement materials preblended or the sampled base asphalt cement plus additive combined at the plant site.

2 The absolute viscosity shall be run in a Modified Koppers vacuum capillary viscometer. Report the viscosity at a shear rate of 1 reciprocal second.

3 Not all polymers are soluble in the specified solvents. If the polymer modified asphalt digested in the solvent will not pass the filter media, a sample of the base asphalt used in making the polymer modified asphalt should be tested for solubility. If the solubility of the base asphalt is at least 99.0%, the material shall be considered as passing.

4 Separation of Polymer Test - See following test method. To be used for preblended modified asphalt cement materials or batched and stored materials. This test will be for informational purposes only.

5 For Force Ductility Test, see following test method for PAC-40HG. For PAC-30, the Force Ductility test shall conform to ASTM P-226-92.

6 For Elastic Recovery Test - See the following test method.

7 For samples obtained at the point of delivery, the penetration requirement shall be 45-80.

8 For samples obtained at the point of delivery, the penetration requirement shall be 45+.

9 ASTM D 4957 may be used to determine viscosity.

## TABLE 2
## ANIONIC EMULSIFIED POLYMER MODIFIED ASPHALT

| PROPERTY | TEST METHOD | SS-1P | | |
|---|---|---|---|---|
| | | SPECIFICATION | DEVIATION | |
| | | 100 | 80 | 50 or Remove |
| Viscosity, Saybolt 25° C, SSF | AASHTO T 59 | 20-100 | 10-19<br>101-150 | 9-<br>151+ |
| Storage Stability, 24 Hour, % | AASHTO T 59 | 1.0- | --- | --- |
| Sieve Test, retained on the No. 20, % | AASHTO T 59 | 0.1- | --- | --- |
| Residue by Distillation[1], 250° C | ASTM D 244 | 57+ | --- | 56- |
| **TESTS ON RESIDUE FROM DISTILLATION TEST:** | | | | |
| Penetration, 25° C, 100g, 5s | AASHTO T 49 | 100-200 | 88-99<br>201-212 | 87-<br>213+ |
| Solubility, % | AASHTO T 44 | 97.5+ | --- | --- |
| Force Ductility[2] $f_2/f_1$, 4° C, 5 cm/min | --- | 0.15+ | --- | 0.14- |
| Elastic Recovery[3], 10° C, 20 cm elongation 60 min, % | --- | 30+ | --- | 29- |

[1] ASTM D 244 Residue by Distillation is modified to include a maximum of 204° C to be held for a period of 15 minutes.
[2] For Force Ductility test see the following test method.
[3] For Elastic Recovery test see the following test method.

## TABLE 3
## ANIONIC EMULSIFIED LATEX MODIFIED ASPHALT

| PROPERTY | TEST METHOD | SS-1L | | |
|---|---|---|---|---|
| | | SPECIFICATION | DEVIATION | |
| | | 100 | 80 | 50 or Remove |
| Viscosity, Saybolt 25° C, SSF | AASHTO T 59 | 20-100 | 10-19<br>101-150 | 9-<br>151+ |
| Storage Stability, 24Hour, % | AASHTO T 59 | 1.0- | --- | --- |
| Sieve Test, retained on the No. 20, % | AASHTO T 59 | 0.1- | --- | --- |
| Residue by Distillation[1], 204° C, % | ASTM D 244 | 57+ | --- | 56- |
| **TESTS ON RESIDUE FROM DISTILLATION TEST:** | | | | |
| Penetration, 25° C, 100g, 5s | AASHTO T 49 | 100-200 | 88-99<br>201-212 | 87-<br>213+ |
| Ductility, 5 cm/min., 4° C | AASHTO T 51 | 50+ | 41-49 | 40- |
| Elastic Recovery[2], 10° C, 20 cm elongation 60 min, % | --- | 50+ | --- | 49- |
| Softening Point, Ring & Ball, ° C | AASHTO T 53 | 50.0+ | 45.1-<br>49.9 | 45.0- |

[1] ASTM D244, Residue by Distillation, Section 12, is modified as follows: The temperature on the lower thermometer shall be brought slowly to 204 ± 5° C and maintained at this point for 15 minutes. Generally, the distillation should be complete at this point and must be accomplished within a maximum of 60 minutes.

[2] For Elastic Recovery test see the following test method.

## SEPARATION OF POLYMER TEST

1. Scope

1.1 The separation of polymer from asphalt cement during hot storage is evaluated by comparing the ring and ball softening points of top and bottom samples taken from a conditioned sealed tube of polymer modified asphalt. The conditioning consists of placing a sealed tube of polymer modified asphalt in a vertical position in a 325° F oven for a 2 day period.

2. Referenced Documents

2.1 AASHTO T 53 Softening Point of Asphalt (Bitumen) and Tar in Ethylene Glycol (Ring-and-Ball).

2.2 ASTM E 11 Specifications for Wire Cloth Sieves for Testing Purposes.

3. Apparatus

3.1 Aluminum Tubes - The tubes are used to hold the test sample during the conditioning. The cylinders are defined as 1 inch diameter by 5 1/2 inches length blind aluminum tubes.

3.2 Oven - An oven capable of maintaining 325 ± 10° F.

3.3 Freezer - A freezer capable of maintaining 20 ± 10° F.

3.4 Rack - A rack capable of holding the aluminum tubes in a vertical position in an oven or in the freezer

3.5 Shears (or spatula and hammer) - The shears (or spatula and hammer) shall be rigid and sharp to allow cutting of the tube containing the polymer modified asphalt when it is at low temperature.

4. Procedure

4.1 Place the empty tube, sealed end down, in the rack.
4.2 Carefully heat the sample until sufficiently fluid to pour. Care should be taken to avoid localized overheating. Strain the melted sample through a No. 50 sieve conforming to ASTM E 11. After a thorough stirring, pour 50.0 g into the vertically held tube. Fold the excess tube over two times and crimp the seal.

4.3 Place the rack containing the sealed tubes in a 325 ± 10° F oven. Allow the tubes to stand undisturbed in the oven for a period of 48 ± 1 hour. At the end of the heating period, remove the rack from the oven and immediately place in the freezer, at 20 ± 10° F taking care to keep the tubes in a vertical position at all times. Leave the tubes in the freezer for a minimum of 4 hours to completely solidify the sample.

4.4 Upon removing the tube from the freezer, place the tube on a flat surface. With the shears (or spatula and hammer), cut the tube into three equal length portions. Place the top and bottom portions into separate marked beakers. Place the beakers in a 325 ± 10° F oven until sufficient fluid to remove the pieces of aluminum tube.

4.5 After a thorough stirring, pour the top and bottom samples into the appropriately marked rings of the ring and ball softening point test. Prepare the rings and apparatus as described in AASHTO T 53.

4.6 The top and bottom sample from the same tube should be run at the same time on the softening point test.

5. Report

5.1 Record the softening point of the top and bottom portions of the sample. Duplicate separation tests should be run.

FORCE DUCTILITY TEST

The force ductility test follows procedures as specified in ASTM D 113 - "Ductility of Bituminous Materials" with the following conditions and modifications:

(a) Temperature - 4° C

(b) Rate of Travel - 5 cm/min.

(c) The standard V-shaped sides for the specimen mold shall be replaced by straight-sided inserts of the same length, so that the specimen will contain a section 1 cm x 1 cm x 3 cm.

(d) A calibrated force adapter is placed on one end of the specimen mold, so that the tensile force can be determined at any point during the elongation.

The force ductility is defined as the force at 30 cm elongation ($f_2$) divided by the maximum force at the initial peak ($f_1$). Report the force ductility to the nearest hundredth (0.01).

ELASTIC RECOVERY

1. Ductilometer Temperature:

| | |
|---|---|
| Polymerized Asphalt Cement | 25° C |
| Emulsified Polymer or Latex Modified Asphalt | 10° C |

2. Procedure: Condition the ductilometer and samples to be tested at the temperature prescribed for that material. Prepare the brass plate, mold and briquet specimen in accordance with ASTM D 113, "Ductility of Bituminous Materials". The standard V-shaped sides for the specimen mold shall be replaced by straight-sided inserts of the same length, so that the specimen will contain a section 1 cm x 1 cm x 3 cm. With the specimen at the specified test temperature, place the specimen in the ductilometer and immediately elongate the specimen to 10 cm for Polymer Modified Asphalt Cement or 20 cm for Emulsified Polymer or Latex Modified Asphalt. The rate of pull shall be 5 cm/min, unless otherwise stated. For Polymer Modified Asphalt Cement, clip the sample approximately in half with scissors or other suitable cutting device immediately after reaching the 10 cm elongation. For Emulsified Polymer or Latex Modified Asphalt, allow the sample to remain in its elongated position for 5 ± 0.25 minutes after reaching the 20 cm elongation, then clip the sample approximately in half with scissors or other suitable cutting device. Let the severed sample remain in the ductilometer in an undisturbed condition for 1 hour. At the end of this time period, carefully move the traveling carriage back to a position where the severed ends of the specimen touch. Observe and record the elongation of the specimen with severed ends just touching each other.

3. Calculation: Calculate percent recover by the following formulas:

For Polymer Modified Asphalt Cement

$$\% \text{ Recovery} = \frac{10 - a}{10} \times 100$$

Where:

a = observed elongation after rejoining of sample, cm.

For Emulsified Polymer or Latex Modified Asphalt

$$\% \text{ Recovery} = \frac{20 - a}{20} \times 100$$

Where:

a = observed elongation after rejoining of sample, cm.

State of Louisiana
Department of Transportation and Development

Qualified Products List 2

# AGGREGATES

*Aggregates from the following sources have demonstrated the capability to conform to the quality requirements of Section 1003 of the Department's Standard Specifications for Roads and Bridges, except as noted.*

*Superscript numbers placed* ***behind*** *the source, material, or column heading throughout this list indicate the existence of restrictions, exceptions, or special applications for sources and/or material. See 'Endnotes' and 'Notes' at the end of each section for legend and application.*

## A. CHERT GRAVEL AND SILICA SAND

*Chert gravels on this list have a Friction Rating of III when used as a coarse aggregate for Asphaltic Concrete. Friction Ratings are defined in Subsection 1003.06*

### 1. IN-STATE SOURCES - BY DISTRICT

| PRODUCT SOURCE CODE | SOURCE | SPECIFIC GRAVITY OF GRAVEL (SSD)[A-3] |
|---|---|---|
| | **DISTRICT 03** | |
| A307 | Acadiana Home & Lawn, (Broussard) Eunice, LA<br>*SMM: APS00005690* | Sand Only |
| | | |
| A305 | B & D Sand Pit (Parks)<br>*SMM: APS00005800* | Sand Only |
| | | |
| A309 | DuPont Sand, LLC (Carencro)<br>*SMM: APS00006160* | Sand Only |
| | | |
| A308 | L & W Sand Pit, LLC (Carencro)<br>*SMM: APS0006550* | Sand Only |
| | | |
| A310 | Vermillion Shell & Limestone Co. Inc. (Maurice)<br>*SMM: APS00007310* | Sand Only |
| | **DISTRICT 04** | |
| A429 | Blount Bros. Construction, Inc. (Blount Bros. Pit)<br>Shreveport, LA<br>*SMM: APS00011330* | Sand Only |
| | | |
| A428 | MRH Sand & Gravel (Benton, LA)[3]<br>*SMM: APS00006830* | 2.60 |

| PRODUCT SOURCE CODE | SOURCE | SPECIFIC GRAVITY OF GRAVEL (SSD)[A-3] |
|---|---|---|
| | **DISTRICT 04 (continued)** | |
| A427 | South Land Sand (Ringgold)<br>*SMM: APS00007000* | 2.60<br>Gravel Only |
| | **DISTRICT 05** | |
| A509 | Century Ready Mix #2 (Jonesboro Road) Monroe<br>*SMM: APS00006000* | Sand Only |
| | | |
| A502 | TXI (Perryville)<br>*SMM: APS00007270* | 2.54 |
| | **DISTRICT 07** | |
| A712 | DSD Energy Services (Oakdale Pit) Oakdale<br>*SMM: APS00006130* | Sand Only |
| | | |
| A710 | Kinder Sand Company (Kinder)[2]<br>*SMM: APS00006520* | Sand Only |
| | | |
| A702 | Trinity (Indian Village Plant 1284)<br>*SMM: APS00007240* | 2.55 |
| | | |
| A709 | Village Sand, Inc. (Indian Village)<br>*SMM: APS00007320* | Sand Only |
| | **DISTRICT 08** | |
| A832 | Larry Grayson Pit (Old James Pit) Forest Hill[3]<br>*SMM: APS00006650* | 2.51 |
| | | |
| A844 | Tanner Heavy Equipment Co. (Tanner Pit #2) (Leesville)<br>*SMM: APS00007150* | Sand Only |
| | | |
| A846 | Trinity Materials, Inc. (Anacoco #1391) Merryville<br>*SMM:APS00007220* | 2.56 |
| | | |
| A822 | TXI (Woodworth)[5]<br>*SMM: APS00007300* | 2.54 |
| | **DISTRICT 58** | |
| A915 | Aimwell Aggregates, Inc. (Aimwell)<br>*SMM: APS00005720* | 2.54 |
| | | |
| A914 | Swim Enterprises, Inc. (Columbia)<br>*SMM: APS00007130* | Sand Only |
| | | |
| A913 | TXI Corporation (Jena)[3]<br>*SMM: APS00007290* | 2.55 |
| | **DISTRICT 61** | |
| A643 | B. & M. B., Inc. (Thompson Pit) St. Francisville<br>*SMM: APS00005820* | 2.55 |

| PRODUCT SOURCE CODE | SOURCE | SPECIFIC GRAVITY OF GRAVEL (SSD)[A-3] |
|---|---|---|
| | **DISTRICT 61 (continued)** | |
| A628 | Bear Industries (Port Allen)[1]<br>*SMM: APS00011400* | Sand Only |
| A636 | Feliciana Farms, Inc. (Bayou Sara)<br>*SMM: APS00006180* | 2.54 |
| A632 | Hooper Road Dirt Pit (Baton Rouge)<br>*SMM: APS0006400* | Sand Only |
| A638 | Odom Doze Service LLC (Clinton)<br>*SMM: APS00011440* | 2.53 |
| A640 | Southern Aggregates (Felps) Norwood<br>*SMM: APS00007010* | 2.53 |
| A633 | Southern Silica of LA (Baywood North) Baywood[3]<br>*SMM: APS00007050* | 2.50 |
| A642 | Tri-State Resources, LLC (Mine Stie #1) Clinton<br>*SMM: APS00011570* | 2.53 |
| | **DISTRICT 62** | |
| A156 | A-1 Sand and Gravel (Warnerton) Mt. Hermon<br>*SMM:APS00005680* | 2.52 |
| AX04 | Accardo Materials, Inc. (Isabel)[3]<br>*SMM: APS0005700* | 2.57 |
| AY21 | Angelle Aggregates (Greensburg)<br>*SMM: APS00005760* | 2.56 |
| AX42 | B & J, Inc. (McCain Pit) Franklinton[3]<br>*SMM: APS00005810* | 2.53 |
| AY29 | BMS, L.L.C. (Amite Pit)[4]<br>*SMM: APS00011340* | 2.52 |
| AX81 | Barriere Construction Co., LLC (Franklinton)<br>*SMM: APS00005850* | 2.53<br>Gravel Only |
| AY25 | Barriere Construction Co., LLC (Franklinton)<br>Barriere-Knight Pit<br>*SMM: APS00005840* | 2.49 |
| AY27 | Barriere Construction Co., LLC #4 (Roseland)<br>*SMM: APS00005860* | 2.53 |

| PRODUCT SOURCE CODE | SOURCE | SPECIFIC GRAVITY OF GRAVEL (SSD)[A-3] |
|---|---|---|
| | **DISTRICT 62 (continued)** | |
| AY06 | Bass Sand & Gravel (Bogalusa)<br>*SMM: APS00005870* | 2.47 |
| | | |
| AX94 | Bayou Sand & Gravel, LLC (Tangipahoa)<br>*SMM: APS00005890* | 2.55 |
| | | |
| AX97 | Bayou Sand & Gravel, LLC (Amite)<br>*SMM: APS00005880* | 2.53 |
| | | |
| AY20 | Blackwell Aggregates, Inc. (Hickory Pit)[2]<br>*SMM: APS00005910* | 2.46 |
| | | |
| A623 | Bunch's Sand & Gravel (Bluff Creek)[3]<br>*SMM: APS00005950* | 2.53 |
| | | |
| AY10 | Cash Sand & Gravel, Inc. (Easterly Plant)<br>Denham Springs, LA<br>*SMM: APS00005990* | 2.52 |
| | | |
| AY04 | Crawford Aggregate Industries, LLC (Grangeville)<br>*SMM: APS00006070* | 2.53 |
| | | |
| AY28 | Crawford Aggregate Industries, LLC (Dennis Mills)<br>Denham Springs, LA<br>*SMM: APS00006050* | 2.52 |
| | | |
| AX71 | Daley Sand and Gravel (Roseland)<br>*SMM: APS00006100* | 2.50 |
| | | |
| AY17 | Enon Sand and Gravel, LLC<br>Enon Plant (Franklinton)<br>*SMM: APS00006170* | 2.54 |
| | | |
| AY24 | Florida Parishes Aggregate, Kent Pit (Fluker)<br>*SMM: APS00006190* | 2.56 |
| | | |
| AX91 | Gillman Enterprises, LLC (Independence)<br>*SMM: APS00006240* | 2.52 |
| | | |
| AX75 | Hard Rock Sand & Gravel LLC (Franklinton)[4]<br>*SMM: APS00011410* | 2.51 |
| | | |
| AY14 | Hard Rock Sand & Gravel LLC #2 (Franklinton)<br>*SMM: APS00006350* | 2.54 |
| | | |
| AX89 | Hard Rock Sand & Gravel, LLC (Mt. Hermon)<br>*SMM: APS00006360* | 2.55 |

| PRODUCT SOURCE CODE | SOURCE | SPECIFIC GRAVITY OF GRAVEL (SSD)[A-3] |
|---|---|---|
| | | |
| AY30 | Hunt Gravel (Franklinton)<br>*SMM: APS00011460* | 2.51 |
| | **DISTRICT 62 (continued)** | |
| AX72 | Industrial Aggregates, LLC (Franklinton)<br>*SMM: APS00006450* | 2.53 |
| | | |
| AY31 | Industrial Minning Plant #5 (Tickfaw)<br>Black Cat Pit<br>*SMM: APS00011520* | 2.50 |
| | | |
| AX68 | K & C Gravel (Independence)<br>*SMM: APS00006510* | Sand Only |
| | | |
| AY01 | Lafarge (Isabel) Bogalusa<br>*SMM: APS00006600* | 2.52 |
| | | |
| AY03 | Lafarge (Honey Island) Pearl River<br>*SMM: APS0006590* | 2.51 |
| | | |
| AX43 | Lon-Land Gravel Company (Franklinton)[3]<br>*SMM: APS00006670* | 2.53 |
| | | |
| A135 | Mears Sand & Gravel (Dennis Mills)<br>*SMM: APS00006770* | 2.51 |
| | | |
| AY12 | P & J Sand & Gravel, LLC (Independence)<br>*SMM: APS00006850* | 2.48 |
| | | |
| AX29 | Ram Industries (Franklinton)[4]<br>*SMM: APS00006920* | 2.55 |
| | | |
| AY05 | Sand Hill Aggregates (Watson)<br>*SMM: APS00006950* | 2.51 |
| | | |
| AX98 | Seal Dozer & Gravel, LLC (Franklinton #1)<br>*SMM:APS00011420* | 2.55 |
| | | |
| AY19 | Seal Dozer & Gravel, LLC (Franklinton #2)<br>*SMM:APS00006960* | 2.52 |
| | | |
| AX93 | SGM, LLC (Kentwood)<br>*SMM: APS00006970* | 2.55 |
| | | |
| AX69 | Smith Sand & Gravel (Franklinton)<br>*SMM: APS00006990* | 2.52 |
| | | |
| AX59 | Southern Aggregates, L.L.C. (Dennis Mills) Walker<br>*SMM: APS00007040* | 2.52 |

| PRODUCT SOURCE CODE | SOURCE | SPECIFIC GRAVITY OF GRAVEL (SSD)[A-3] |
|---|---|---|
| | | |
| AY16 | Southern Aggregates, LLC (Clemon's) Watson<br>*SMM: APS00007020* | 2.51 |
| | **DISTRICT 62 (continued)** | |
| AY26 | Southern Aggregates, LLC (Plant #7) Denham Springs, LA<br>*SMM: APS00007030* | 2.52 |
| | | |
| AX13 | Standard Gravel Company, Inc. (Nicholson #7) Pearl River[3]<br>*SMM: APS00007100* | 2.51 |
| | | |
| AX84 | Standard Gravel Company (Franklinton)<br>*SMM: APS00007070* | 2.53<br>Gravel Only |
| | | |
| AX88 | Standard Gravel Company (Warnerton Plant) (Franklinton)<br>*SMM: APS00007120* | 2.54<br>Gravel Only |
| | | |
| AY09 | Standard Gravel Company (Green Lakes Pit) Franklinton<br>*SMM: APS00007090* | 2.55<br>Gravel Only |
| | | |
| AY18 | Standard Gravel Company (Honey Island Swamp)<br>Pearl River Pit (Pearl River)<br>*SMM: APS00007110* | 2.49 |
| | | |
| AX96 | T & D Sand & Gravel, LLC (Amite)<br>*SMM: APS00007140* | 2.53 |
| | | |
| AB98 | Willis Sand & Gravel (Sun)<br>*SMM: APS00007490* | 2.52 |

**-End 'In-State' Sources**

## 2. OUT-OF-STATE SOURCES

| PRODUCT SOURCE CODE | SOURCE | TYPE OF MATERIAL | SPECIFIC GRAVITY (SSD)[A-3] |
|---|---|---|---|
| ASAN | Alabama Sand & Gravel (Billingsley Pit)<br>Prattvile, AL<br>*SMM: APS00005730* | Gravel<br>Sand | 2.63<br>2.62 |
| | | | |
| ASAV | Alliance Sand and Gravel, LLC (Phil Campbell Pit)<br>Phil Campbell, AL<br>*SMM: APS00005740* | Sand | 2.62 |
| | | | |
| ASAK | Allstate Deatsville, LLC - Deatsville Pit<br>Deatsville, AL<br>*SMM: APS00005750* | Sand | 2.62 |

| PRODUCT SOURCE CODE | SOURCE | TYPE OF MATERIAL | SPECIFIC GRAVITY (SSD)[A-3] |
|---|---|---|---|
| | **OUT-OF-STATE SOURCES (continued)** | | |
| ABAO | Arkansas Gravel Co., Inc.<br>(Bradshaw Mine) Hampton, AR<br>*SMM: APS00005780* | Gravel<br>Sand | 2.56<br>2.62 |
| AB76 | B & B Gravel And Trucking Co.<br>Bearden, AR<br>*SMM: APS00005790* | Gravel<br>Sand | 2.55<br>2.62 |
| ASAR | Baldwin Sand & Gravel (Crystal Springs Pit)[4]<br>Philadelphia, MS<br>*SMM: APS00005830* | Gravel<br>Sand | 2.57<br>2.62 |
| ASAM | Blackwell Aggregates, Inc. (Jackson Landing Pit)<br>Nicholson, MS<br>*SMM: APS00005920* | Gravel<br>Sand | 2.48<br>2.62 |
| AA57 | Blain Sand & Gravel, Inc.<br>Crystal Springs, MS<br>*SMM: APS00005940* | Gravel<br>Sand | 2.54<br>2.62 |
| AB31 | Blain Sand & Gravel, Inc.[3]<br>Natchez, MS (Cloverhill Pit)<br>*SMM: APS00005930* | Gravel<br>Sand | 2.57<br>2.62 |
| AA67 | Cossatot Materials, Inc.[3]<br>Lockesburg, AR<br>*SMM: APS00006030* | Gravel<br>Sand | 2.54<br>2.62 |
| AB46 | D & B Sand & Gravel Co., Inc.[3]<br>Georgetown, MS<br>*SMM: APS00006090* | Gravel<br>Sand | 2.53<br>2.62 |
| AA80 | Dickerson & Bown Riverside Gravel<br>McComb, MS<br>*SMM: APS00006110* | Gravel<br>Sand | 2.46<br>2.62 |
| ASAS | Eastern Oklahoma Quarries, LLC (Spiro Pit)<br>Spiro, OK<br>*SMM: APS00011350* | Sand | 2.62 |
| ASBB | Eastern Oklahoma Quarries (Chieftan Sand Pit)[2]<br>Garland, AR<br>*SMM: APS00011470* | Sand | 2.63 |
| ASAJ | Foley Materials Company – Plant 505<br>Phenix City, AL<br>*SMM: APS00006210* | Sand | 2.62 |

| PRODUCT SOURCE CODE | SOURCE | TYPE OF MATERIAL | SPECIFIC GRAVITY (SSD)[A-3] |
|---|---|---|---|
| | **OUT-OF-STATE SOURCES (continued)** | | |
| ASAT | Foley Materials Company – Plant 501<br>Phenix City, AL<br>*SMM: APS00006200* | Sand | 2.62 |
| ASAI | Fouke Aggregate, LLC<br>Fouke, AR<br>*SMM: APS00006230* | Gravel<br>Sand | 2.61<br>2.62 |
| ASAZ | FRAC Diamond Aggregates, LLC (Nicholson Pit)[4]<br>Nicholson, MS<br>*SMM: APS00011360* | Gravel<br>Sand | 2.49<br>2.63 |
| ABAK | Green Bros. Gravel Co. #22<br>Hazlehurst, MS<br>*SMM: APS00006260* | Gravel<br>Sand | 2.50<br>2.62 |
| ABAL | Green Bros. Gravel Co. #65<br>Crystal Springs, MS<br>*SMM: APS00006270* | Gravel<br>Sand | 2.50<br>2.62 |
| ASAW | Hallett Materials – Texas Division (Porter Plant)<br>Porter, TX<br>*SMM: APS00006290* | Sand | 2.63 |
| ASAU | Hammett Gravel Co., Inc. (Yazoo City Operation)<br>Bentonia, MS<br>SMM: APS00006300 | Gravel<br>Sand | 2.56<br>2.62 |
| AA70 | Hanson Aggregates (Eagle Mills)<br>Bearden, AR<br>*SMM: APS00006310* | Gravel<br>Sand | 2.57<br>2.62 |
| A092 | Hanson Aggregates (Little River)<br>Ashdown, AR<br>*SMM:APS00006320* | Gravel<br>Sand | 2.56<br>2.62 |
| AB07 | Huey Stockstill, Inc.[3]<br>Picayune, MS<br>*SMM:APS00006420* | Gravel<br>Sand | 2.47<br>2.62 |
| AB26 | Hutchinson Island Mining Corporation[4]<br>Picayune, MS<br>*SMM:APS00006430* | Gravel<br>Sand | 2.53<br>2.62 |
| ASBC | Hutchinson Island Mining Corporation[2]<br>Picayune, MS<br>Santa Rosa Pit<br>*SMM: APS00011450* | Sand | 2.63 |

| PRODUCT SOURCE CODE | SOURCE | TYPE OF MATERIAL | SPECIFIC GRAVITY (SSD)[A-3] |
|---|---|---|---|
| | **OUT-OF-STATE SOURCES (continued)** | | |
| ABAP | JJ Ferguson Sand & Gravel Blackhawk Pit [2]<br>Greenwood, MS<br>*SMM: APS00006490* | Sand<br>Gravel | 2.62<br>2.54 |
| A091 | Johnsville Sand & Gravel<br>Johnsville, AR<br>*SMM: APS00006500* | Gravel<br>Sand | 2.55<br>2.62 |
| ASAG | King Sand & Gravel<br>Kerens, TX<br>*SMM: APS00006530* | Sand | 2.62 |
| AB91 | Krystal Gravel, Inc.<br>Crystal Springs, MS<br>*SMM: APS00006540* | Gravel<br>Sand | 2.53<br>2.62 |
| ASAE | Lockesburg – 1544<br>*SMM: APS00007250* | Gravel<br>Sand | 2.48<br>2.62 |
| ASAL | Marion Clay and Gravel, L.L.C.<br>Columbia, MS<br>*SMM: APS00006680* | Gravel<br>Sand | 2.48<br>2.62 |
| ABAS | Martin Marietta Materials<br>(Broken Bow Sand & Gravel)<br>Eagleton, OK<br>*SMM: APS00006700* | Gravel | 2.56 |
| ASAX | Martin Marietta Materials (Garwood Plant)<br>Humble, TX<br>*SMM: APS00006720* | Gravel | 2.57 |
| ABAC | Memphis Stone & Gravel Co. (Anderson Plant)<br>Nesbit, MS<br>*SMM: APS00006780* | Sand | 2.62 |
| ABAD | Memphis Stone & Gravel Co. (Perry Plant)<br>Senatobia, MS<br>*SMM: APS00006790* | Sand | 2.62 |
| ASAQ | Oddee Smith Construction, Inc. (Oddee California Camp Pit)<br>Brookhaven, MS<br>*SMM: APS00006840* | Gravel | 2.56 |
| A018 | Perkinston Sand & Gravel<br>Perkinston, MS<br>*SMM: APS00006860* | Sand | 2.62 |

| PRODUCT SOURCE CODE | SOURCE | TYPE OF MATERIAL | SPECIFIC GRAVITY (SSD)[A-3] |
|---|---|---|---|
| | **OUT-OF-STATE SOURCES (continued)** | | |
| ASAF | R & R Logging & Gravel<br>Columbia, MS<br>*SMM: APS00006910* | Gravel<br>Sand | 2.49<br>2.62 |
| | | | |
| ASAP | Riverside Sand & Gravel (NW St. Paul Pit)<br>Tylertown, MS<br>*SMM: APS00006930* | Sand | 2.62 |
| | | | |
| ASAY | Simpson Materials Company (Ranken Site)<br>Valley Park, MO<br>*SMM: APS00006980* | Gravel | 2.51 |
| | | | |
| ASBA | South Gate Aggregates, L.L.C.[3] (Burge Pit)<br>Nicholson, MS<br>*SMM: APS00011380* | Gravel<br>Sand | 2.47<br>2.63 |
| | | | |
| AB69 | Standard Gravel Company (SGC Glendale Pit)<br>Hattiesburg, MS<br>*SMM: APS00007880* | Gravel<br>Sand | 2.56<br>2.62 |
| | | | |
| ASAO | Standard Gravel Company<br>Columbia, MS (Bradley Pit)<br>*SMM: APS00007060* | Gravel | 2.54 |
| | | | |
| ASBD | Standard Gravel Company<br>Columbia, MS (Gross/Webb Pit)<br>*SMM: APSOOO11550* | Gravel | 2.53 |
| | | | |
| AB27 | The Fordyce Company[3]<br>Victoria, TX (Briggs Plant)<br>*SMM: APS00007170* | Gravel<br>Sand | 2.74<br>2.62 |
| | | | |
| ASAH | Triangle Aggregates, Inc.<br>Jackson, AL<br>*SMM: APS00007210* | Gravel | 2.61 |
| | | | |
| ASAA | Wooten Sand & Gravel<br>Fouke, AR<br>*SMM: APS00007510* | Gravel<br>Sand | 2.60<br>2.62 |

**-End 'Out-of-State' Sources**

## ENDNOTES TO SECTION A:

1. *Sand from this source is approved for asphaltic concrete only.*

2. *Sand from this source is restricted in Portland Cement Concrete to cements or cement/fly ash combinations with 0.6% alkalies or less.*

3. *Gravel from this source is restricted in Portland Cement Concrete to cements or cement/fly ash combinations with 0.6% alkalies or less.*

4. *Sand and Gravel from this source are restricted in Portland Cement Concrete to cements or cement/fly ash combinations with 0.6% alkalies or less.*

5. *Gravel from this source contains an unusual amount of hematite iron ore. If used in Portland Cement Concrete, the hematite content cannot exceed 2%.*

**NOTES:**

**Note A-1:**
Source approval samples of gravel and sand are obtained by personnel from the Materials and District Laboratories. The source is defined as the pit or quarry which produces the aggregate being evaluated. All aggregate which does not pass through the 4.75mm (No. 4) sieve shall be source approved prior to use. Certain aggregates may be approved for restricted use. A complete source approval analysis shall be run on each aggregate source.

**NOTE A-2:**
All material, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual and tesed for conformance to the appropriate specifications. An deviation in performance from the original sample submitted may result in removal of the material from the qualified list.

**NOTE A-3:**
A specific gravity value of 2.62 (SSD) may be used for all in-state silica sands used for portland cement concrete.

**NOTE A-4:**
Because absorption has been found to correlate with the type and specific gravity of silica sands and chert gravels, the water absorption factors given in the following table may be used:

| Specific Gravity (SSD) | Water Absorption Factor |
|---|---|
| **SAND** | |
| 2.62 | 0.5 |
| **GRAVEL** | |
| 2.45 | 4.0 |
| 2.46 | 4.0 |
| 2.47 | 3.5 |
| 2.48 | 3.5 |
| 2.49 | 3.5 |
| 2.50 | 3.0 |
| 2.51 | 2.5 |
| 2.52 | 2.5 |
| 2.53 | 2.2 |
| 2.54 | 1.7 |
| 2.55 | 1.5 |
| 2.56 | 1.2 |
| 2.57 | 1.0 |
| 2.58 | 1.0 |
| 2.59 | 1.0 |
| 2.60 | 1.0 |
| 2.61 | 0.8 |
| 2.62 | 0.8 |
| 2.63 | 0.8 |

## B. OTHER AGGREGATE MATERIALS

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| ABBC | Agrecasa Del Caribe<br>Relelpedregal 21 y 23 Calle 22<br>Ave. B<br>San Pedro Sula-Honduras<br>(Water Absorption = 1.6)<br>(Spec. Gravity - SSD = 2.63)<br>*SMM: APS00005710* | Stone<br>(Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| ABBY | APAC-Brickey's Stone<br>13588 Brickey's Road<br>Bloomsdale, MO 63627<br>(Water Absorption = 1.4)<br>(Spec. Gravity – SSD = 2.64)<br>*SMM: APS00005770* | Stone<br>(Limestone)<br>Burlington Formation | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| | | | |
| ABCD | APAC-Brickey's Stone<br>13588 Brickey's Road<br>Bloomsdale, MO 63627<br>(Water Absorption = 1.9)<br>(Spec. Gravity – SSD = 2.61)<br>*SMM:* | Stone<br>(Limestone)<br>Plattin Formation | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| | | | |
| AB25 | Big River Industries, Inc.<br>Erwinville, LA 70729<br>(Water Absorption = 16.3)<br>(Spec. Gravity – SSD = 1.65)<br>*SMM: APS00005900* | Expanded Clay<br>Lightweight Aggregate | 1) Asphaltic Surface Treatment<br>(Type B, C, & D applications only)<br>2) Asphaltic Concrete<br>(excluding wearing surfaces)<br>(Friction Rating = I)<br>3) Portland Cement Concrete |
| | | | |
| ABBU | Calx Resources<br>Chaudet Creek Quarry<br>877 Dover Road<br>Grand Rivers, KY 42025<br>(Water Absorption = 0.5)<br>(Spec. Gravity – SSD = 2.70)<br>*SMM: APS00005960* | Stone<br>(Siliceous Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| | | | |
| ABBK | Capital Aggregates Marble Falls<br>8147 US-281 North<br>Burnet, TX 78611<br>(Water Absorption = 0.6)<br>(Spec. Gravity - SSD = 2.79)<br>*SMM: APS00005970* | Stone<br>(Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| ABAR | Carolina Stalite Company<br>P. O. Box 186<br>Gold Hill, NC 28072<br>(Water Absorption = 3.7)<br>(Spec. Gravity - SSD = 1.45)<br>*SMM: APS00005980* | Lightweight Aggregate (Expanded Slate); Gold Hill, NC | 1) Asphaltic Surface Treatment<br>2) Asphaltic Concrete (excluding wearing surfaces)<br>(Friction Rating = I)<br>3) Portland Cement Concrete (where specified) |
| ABBX | Columbus Quarry, L.L.C.<br>Fortson Quarry<br>3001 Smith Road<br>Fortson, GA 31808<br>(Water Absorption = 0.7)<br>(Spec. Gravity – SSD = 2.66)<br>*SMM: APS00006020* | Granite | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete (excluding bridge decks)<br>5) Riprap & Stone Revetment |
| ABBN | Crystal Hill Quarry<br>(Granite Mountain Quarries)<br>9100 Rowlett Drive<br>North Little Rock, AR 72113<br>(Water Absorption = 0.9)<br>(Spec. Gravity - SSD = 2.62)<br>*SMM: APS00006080* | Stone<br>(Sandstone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete (excluding bridge decks)<br>5) Riprap & Stone Revetment |
| AB04 | Delta Materials<br>P. O. Box 99<br>Marble Falls,TX 78654<br>(Water Absorption = 2.1)<br>(Spec. Gravity 0SSD = 2.56)<br>*SMM: APS00007520* | Stone<br>(Sandstone; Fairland, TX) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| AB28 | Donna Fill, Inc.<br>P. O. Box 722<br>Little Rock, AR 72203<br>(Spec. Gravity – Apparent = 2.62<br>*SM: APS00006120* | Stone<br>(Syenite Granite Fines, Donna Fill, Little Rock, AR) | This is a manufactured sand approved for the following applications<br>1) Special Embankment (non-plastic)<br>2) Select Materials<br>3) Granular Material for Subbase<br>4) Supplemental Fines (screenings) for Asphaltic Concrete<br>(Friction Rating – III) |
| ABAE | Duffield Gravel Co.<br>16 Bluff Drive<br>Russellville, AR 72802<br>(Water Absorption = 1.4)<br>(Sp. Grav. (SSD) = 2.62)<br>*SMM: APS00006150* | Stone<br>(Sandstone; New Hope Quarry) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| ABAF | Duffield Gravel Co.<br>16 Bluff Drive<br>Russellville, AR 72802<br>(Water Absorption = 1.5)<br>(Sp. Grav. (SSD) = 2.60)<br>*SMM: APS00006140* | Stone<br>(Sandstone; Gum Log Quarry) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| AA15 | Foster Yoeman Limited<br>Shepton Mallet<br>Somerset, England BA4 4SQ<br>(Water Absorption = 0.5)<br>(Spec. Gravity - SSD = 2.62)<br>*SMM: APS00006220* | Stone<br>(Granite;<br>Glensanda Quarry, Scotland) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| AB85 | G & S Marketing Group, LLC<br>5001 Red Rock Road<br>Adamsville, AL<br>(Water Absorption = 4.3)<br>(Spec. Gravity – SSD = 2.31)<br>*SMM: APS00011480* | Stone[5]<br>(Alumina Chert, Red Rock Quarry) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| AA89 | Gads Hill Quarry<br>P. O. Box 307<br>Piedmont, MO 63957<br>(Water Absorption = 0.3)<br>(Spec. Gravity – SSD = 2.64)<br>*SMM: APS00006010* | Stone[2]<br>(Rhyolite 'Traprock';<br>Gads Hill, MO) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| A033 | Granite Mountain Quarries<br>P. O. Box 138<br>Sweet Home, AR 72164<br>(Water Absorption = 0.9)<br>(Spec. Gravity - SSD = 2.59)<br>*SMM: APS00006250* | Stone<br>(Syenite Granite) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = II)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| A077 | Hanson Aggregates<br>P. O. Box 190999<br>Dallas, TX 75219<br>(Water Absorption = 0.8)<br>(Spec. Gravity - SSD = 2.68)<br>*SMM: APS00006340* | Stone[2]<br>(Limestone;<br>Perch Hill Plant;<br>Bridgeport, TX) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| AB18 | Hanson Aggregates<br>P. O. Box 31135<br>New Braunfels, TX<br>(Water Absorption = 1.6)<br>(Spec. Gravity - SSD = 2.58)<br>*SMM: APS00006330* | Stone[2]<br>(Limestone;<br>New Braunfels, TX) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| AA90 | Hastie Mining Company<br>5845 Carsten Road<br>Medina, OH 44256<br>(Water Absorption = 0.8)<br>(Spec. Gravity - SSD = 2.66)<br>*SMM: APS00006370* | Stone<br>(Sandstone;<br>Hastie Mining<br>Company Quarry;<br>Cave-In-Rock, IL) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| | | | |
| AB55 | Heckett/MultiServ<br>Plant #51<br>P. O. Box 822<br>Warsaw, KY 41095<br>(Water Absorption = 2.0)<br>(Spec. Gravity - SSD = 3.26)<br>*SMM: APS00006390* | Slag<br>(EAF Steel Slag;<br>Gallatin Steel Co.,<br>Ghent, KY) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I) |
| | | | |
| AB71 | Heckett/MultiServ<br>Plant #54<br>P. O. Box 247<br>Amorel, AR 72310<br>(Water Absorption = 1.6)<br>(Spec. Gravity - SSD = 3.60)<br>*SMM: APS00006380* | Steel Slag[1]<br>(Nucor-Yamato Steel<br>Co., Blytheville, AR) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = II)<br>4) Bedding Material |
| | | | |
| ABBM | Howe Mine<br>P. O. Box 11050<br>Fort Smith, AR 72956<br>(Water Absorption = 2.5)<br>(Spec. Gravity = 2.49)<br>*SMM: APS00006410* | Stone<br>(Sandstone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| AA91 | Ideal Dominicana, S.A.<br>P. O. Box 1323<br>Santo Domingo,<br>Dominican Republic<br>(Water Absorption = 1.3)<br>(Spec. Gravity - SSD = 2.61)<br>*SMM: APS00006440* | Stone<br>(Limestone) | 1) Base & Surface Course |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| ABCE | Industrias de Agregados Peralvillo los Montones, S.R.L.<br>Avenida Romulo Batancourt #2058<br>Suite 202<br>Santo Domingo, Dominican Republic<br>(Water Absorption = 0.8)<br>(Spec. Gravity – SSD = 3.0)<br>*SMM: APS00011390* | Stone[1]<br>(Basalt Rock) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = II)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| | | | |
| AB14 | International Mill Service<br>100 Old Highway 90<br>Rose City, TX 77662<br>(Water Absorption = 1.5)<br>(Spec. Gravity - SSD = 3.60)<br>*SMM: APS00006460* | Steel Slag[1]<br>(North Star Steel Company) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = II) |
| | | | |
| AB73 | Iron Mountain Trap Rock Co.<br>325 Highway W, Box 8<br>Iron Mountain, MO 63650<br>(Water Absorption = 0.2)<br>(Sp. Grav.- SSD = 2.65)<br>*SMM: APS00006470* | Stone (Rhyolite: Iron Mountain, MO) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| ABBO | Jamaica Aggregates Limited<br>dba Lafarge<br>31 Molynes Road<br>Kingston Jamaica<br>(Water Absorption = 1.0%)<br>(Spec. Gravity - SSD = 2.72)<br>*SMM: APS00006480* | Stone<br>(Crushed Alluvial Stone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| | | | |
| ABAM | Lafarge Aggregates<br>RRI Box 267<br>Cave-In-Rock, IL 62919<br>(Water Absorption = 0.7)<br>(Spec. Gravity - SSD = 2.68)<br>*SMM: APS00006570* | Stone<br>(Siliceous Limestone; Cave-In-Rock, IL; Ledges 8 - 10) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| | | | |
| ABAN | Lafarge Aggregates<br>RRI Box 267<br>Cave-In-Rock, IL 62919<br>(Water Absorption = 0.8)<br>(Spec. Gravity - SSD = 2.67)<br>*SMM: APS00006560* | Stone<br>(Sandstone; Cave-In-Rock, IL) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| ABBW | Lafarge North America<br>Three Rivers Quarry – Pit #1<br>830 Three Rivers Quarry Road<br>Smithland, KY 42081<br>(Water Absorption = 0.89)<br>(Spec. Gravity-SSD = 2.68)<br>*SMM: APS00006650* | Stone<br>(Siliceous Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| ABBZ | Lafarge North America<br>Three Rivers Quarry – Pit #2<br>830 Three Rivers Quarry Road<br>Smithland, KY 42081<br>(Water Absorption – 0.84)<br>(Spec. Gravity-SSD = 2.66)<br>*SMM: APS00006640* | Stone<br>(Siliceous Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Riprap & Stone Revetment |
| ABCA | Lafarge North America<br>Fredonia Quarry<br>297 Fredonia Quarry Road<br>Fredonia, KY 42411<br>(Water Absorption = 0.7)<br>(Spec. Gravity-SSD=2.69)<br>*SMM: APS00006580* | Stone<br>(Siliceous Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| ABCB | Lafarge North America<br>Perryville Quarry<br>521 Quarry Lane<br>Perryville, MO 63775<br>(Water Absorption=0.5)<br>(Spec. Gravity-SSD=2.70)<br>*SMM: APS00006610* | Stone<br>(Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| ABCC | Lafarge North America<br>Rosiclair Quarry<br>Rural Rt. 1, Box 128<br>Golconda, IL 62938<br>(Water Absorption=0.6)<br>(Spec. Gravity-SSD=2.68)<br>*SMM: APS00006620* | Stone<br>(Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| ABCF | Lafarge North America<br>2509 Mound Avenue<br>Juliet, IL 60439<br>(Water Absorption – 1.3)<br>(Spec. Gravity – SSD = 2.71)<br>*SMM: APS00011490* | Stone<br>(Dolomitic Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge deck)<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| A067 | Little Rock Quarry Company<br>P. O. Box 548<br>Benton, AR 72015<br>(Water Absorption = 1.2)<br>(Spec. Gravity 0 SSD = 2.62)<br>*SMM: APS00006660* | Stone<br>(Sandstone;<br>Arkadelphia, OR) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| AA92 | Martin Marietta Aggregates<br>P. O. Box 1325<br>Mena, AR 71953<br>(Water Absorption = 1.0)<br>(Spec. Gravity - SSD = 2.64)<br>*SMM: APS00006710* | Stone[3]<br>(Rhyloite 'Traprock';<br>Hatton, AR) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = II)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| AA39 | Martin Marietta Aggregates<br>6401 France Road<br>P. O. Box 26396<br>New Orleans, LA 70126<br>(Water Absorption = 0.9)<br>(Spec. Gravity - SSD = 2.70)<br>*SMM: APS00006750* | Stone<br>(Granite;<br>Nova Scotia,<br>Construction<br>Aggregate Quarry) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| AA86 | Martin Marietta Aggregates<br>6401 France Road<br>P. O. Box 26396<br>New Orleans, LA 70126<br>(Water Absorption = 3.9)<br>(Spec. Gravity - SSD = 2.38)<br>*SMM: APS00006690* | Stone<br>(Porous Limestone;<br>Bahama Island,<br>Freeport) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete |
| AA51 | Martin Marietta Aggregates<br>P. O. Box 219<br>Powderly, TX 75473<br>(Water Absorption = 2.3)<br>(Spec. Gravity - SSD = 2.52)<br>*SMM: APS00006760* | Stone<br>(Sandstone;<br>Sawyer, OK) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| ABAW | Martin Marietta Aggregates<br>524 Central Avenue<br>Hot Springs, AR 71901<br>(Water Absorption = 2.2)<br>(Spec. Gravity - SSD = 2.53)<br>*SMM: APS00005730* | Stone<br>(Sandstone;<br>Jones Mill Pit,<br>Malvern, AR) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = II)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| ABAX | Martin Marietta Aggregates<br>524 Central Avenue<br>Hot Springs, AR 71901<br>(Water Absorption = 0.9)<br>(Spec. Gravity - SSD = 2.58)<br>*SMM: APS00006740* | Stone<br>(Syenite Granite;<br>Jones Mill Pit,<br>Malvern, AR) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| ABAG | Mineral Technology Systems<br>61 Nor Brook Drive<br>Kingston, Jamaica W.I.<br>(Water Absorption = 3.9)<br>(Spec. Gravity - SSD = 2.40)<br>*SMM: APS00006800* | Stone<br>(Porous Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks) |
| AB88 | Missouri Red Quarries, Inc.<br>HCR 63 Box 3371<br>Ironton, MO 63650<br>(Water Absorption = 0.4)<br>(Sp. Gravity - SSD = 2.62)<br>*SMM: APS00006810* | Stone (Granite:<br>Ironton,<br>Missouri) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| AB75 | MMD Stone, LLC<br>600 N.E. Quarry Drive<br>Jackson, MO 63755<br>(Water Absorption = 1.2)<br>(Spec. Gravity - SSD = 2.64)<br>*SMM: APS00006820* | Stone<br>Siliceous Limestone;<br>(Bailey Formation)<br>Jackson, MO | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| ABBF | Pike County Constr./Earnest Investments<br>P. O. Box 141<br>Kirby, AR 71950<br>(Water Absorption = 2.0)<br>(Spec. Gravity - SSD = 2.56)<br>*SMM: APS00006870* | Stone<br>(Sandstone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| AB13 | Pine Bluff Sand & Gravel Co.<br>P. O. Box 80<br>New Blaine, AR 72851<br>(Water Absorption = 1.0)<br>(Spec. Gravity - SSD = 2.63)<br>*SMM: APS00006880* | Stone<br>(Sandstone;<br>River Mountain<br>Quarry) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| ABBS | Pine Bluff Sand & Gravel Co.<br>Cumberland River Quarry<br>780 Spencer Road<br>Salem, KY 42078<br>(Water Absorption = 0.8)<br>(Spec. Gravity - SSD = 2.68)<br>*SMM: APS00006890* | Stone<br>(Siliceous Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| ABBH | Productos Mitza, S.A. DE C.V.<br>KM 4.5 Carr. A. Caucel<br>Merida Yucatan, Mexico 97248<br>(Water Absorption = 6.1)<br>(Spec. Gravity - SSD = 2.32)<br>*SMM: APS00006900* | Stone<br>(Porous Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks) |
| AB15 | Texas Crushed Stone Co., Inc.<br>Georgetown, TX<br>(Water Absorption = 3.6)<br>(Spec. Gravity - SSD = 2.48)<br>*SMM: APS00007160* | Stone[2]<br>(Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| A056 | Tower Rock Stone Company<br>19829 Lower Frenchman Road, Ste<br>Genevieve, MO 63670<br>(Water Absorption = 1.6)<br>(Spec. Gravity - SSD = 2.64)<br>(Spec. Gravity - App = 2.72)<br>(Spec. Gravity - Bulk = 2.60)<br>*SMM: APS00007180* | Stone[2]<br>(Limestone;<br>St. Genevieve, MO) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| A079 | Tower Rock Stone Company<br>P. O. Box 69<br>Columbia, IL 62236<br>(Water Absorption = 4.8)<br>(Spec. Gravity - SSD = 2.47)<br>*SMM: APS00007190* | (Oolitic Stone;<br>St. Genevieve, MO) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |
| ABBD | Travis Creek Entergy, LLC<br>5969 Deans Ferry Road<br>Trafford, AL 35233<br>(Water Absorption = 1.6)<br>(Spec. Gravity - SSD = 2.64)<br>*SMM: APS00007200* | Stone<br>(Granite) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = I)<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| AB10 | TXI<br>P. O. Box 217<br>Streetman, TX 75859<br>(Water Absorption = 1.3)<br>(Spec. Gravity – SSD = 2.64)<br>*SMM: APS00007280* | Expanded Shale Lightweight Aggregate (Streetman-Lightweight) | 1) Asphaltic Surface Treatment<br>2) Asphaltic Concrete (excluding wearing surfaces) (Friction Rating = I)<br>4) Portland Cement Concrete (where specified) |
| | | | |
| AB61 | TXI<br>4600 Lee Street<br>Alexandria, LA 71302<br>(Water Absorption = 1.3)<br>(Spec. Gravity - SSD = 2.64)<br>*SMM: APS00007260* | Stone (Limestone; Bridgeport, TX) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete (Friction Rating = IV)<br>4) Portland Cement Concrete (excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| A042 | Vulcan Materials Company<br>P. O. Box 7497<br>Birmingham, AL 35263<br>(Water Absorption = 0.7)<br>(Spec. Gravity – SSD = 2.71)<br>*SMM: APS00007340* | Stone[2] (Limestone Calera Quarry) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete (Friction Rating = IV)<br>4) Portland Cement Concrete (excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| AB42 | Vulcan Materials Company<br>P. O. Box 459<br>Cherokee, AL 35616<br>(Water Absorption = 0.9)<br>(Spec. Gravity - SSD = 2.62)<br>*SMM: APS00007360* | Stone[2] (Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete (Friction Rating = IV)<br>4) Portland Cement Concrete (excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| AB53 | Vulcan Materials Company<br>P. O. Box 193<br>Georgetown, TX 78622<br>(Water Absorption = 0.8)<br>(Spec. Gravity - SSD = 2.64)<br>SMM: APS00007440 | Stone (Limestone; Brownwood, TX) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete (Friction Rating = IV)<br>4) Portland Cement Concrete (excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| AB35 | Vulcan Materials Company<br>1277 S. 7000 West Road<br>Kankakee, IL 60901<br>(Water Absorption = 1.5)<br>(Spec. Gravity - SSD = 2.69)<br>*SMM: APS00007400* | Stone[2] (Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete (Friction Rating = IV)<br>4) Portland Cement Concrete (excluding bridge decks)<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| AB36 | Vulcan Materials Company<br>6141 North Route 50<br>Manteno, IL 60950<br>(Water Absorption = 1.6)<br>(Spec. Gravity - SSD = 2.65)<br>*SMM: APS00007330* | Stone[2]<br>(Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| AA95 | Vulcan Materials Company<br>285 West Esplanade Avenue<br>Suite 402<br>Kenner, LA 70065<br>(Water Absorption = 3.7)<br>(Spec. Gravity - SSD = 2.38)<br>*SMM: APS00007350* | Stone<br>(Porous Limestone - Sactun;<br>Cancun, MX) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete |
| AB19 | Vulcan Materials Company<br>P. O. Box 96<br>Trinity, AL 35673<br>(Water Absorption = 1.2)<br>(Spec. Gravity - SSD = 2.65)<br>*SMM: APS00007450* | Stone[2]<br>(Limestone;<br>Trinity Plant;<br>Decatur, AL) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| AB41 | Vulcan Materials Company<br>P. O. Box 110<br>Tuscambia, AL 35674<br>(Water Absorption = 0.7)<br>(Spec. Gravity - SSD = 2.64)<br>*SMM: APS00007460* | Stone[2]<br>(Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| ABBP | Vulcan Materials Company<br>947 U. S. Highway 62<br>Grand Rivers, KY 42045<br>(Water Absorption = 0.9)<br>(Spec. Gravity - SSD = 2.67)<br>*SMM: APS00007390* | Stone<br>(Limestone;<br>Grand Rivers Quarry<br>Warsaw Formation) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| ABBQ | Vulcan Materials Company<br>947 U. S. Highway 62<br>Grand Rivers, KY 42045<br>(Water Absorption = 0.2)<br>(Spec. Gravity - SSD = 2.68)<br>*SMM: APS00007380* | Stone<br>(Siliceous Limestone;<br>Grand Rivers Quarry<br>Ft. Payne Formation) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = II)<br>*for ADT ≤ 20,000*<br>4) Portland Cement Concrete<br>5) Riprap & Stone Revetment |

| PRODUCT SOURCE CODE | SOURCE | MATERIAL | APPROVED USES & FRICTION RATINGS[B-1] |
|---|---|---|---|
| | **OTHER AGGREGATE MATERIALS (continued)** | | |
| ABBR | Vulcan Materials Company<br>947 U. S. Highway 62<br>Grand Rivers, KY 52045<br>(Water Absorption = 0.7)<br>(Spec. Gravity - SSD = 2.24)<br>*SMM: APS00007420* | Stone (Siliceous Limestone:<br>Lake City Quarry<br>Salem Formation) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(Bridge Decks Excluded)<br>5) Riprap & Stone Revetment |
| | | | |
| ABBT | Vulcan Materials Company<br>Pride Quarry<br>18055 Highway 72 West<br>Tuscumbia, AL 35674<br>(Water Absorption = 1.9)<br>(Spec. Gravity – SSD = 2.60)<br>*SMM: APS00007430* | Stone<br>(Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| ABBV | Vulcan Materials Company<br>LaGrange Quarry<br>628 Vulcan Materials Road<br>LaGrange, GA 30241<br>(Water Absorption = 0.4)<br>(Spec. Gravity – SSD=2.66)<br>*SMM: APS00007410* | Granite | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = IV)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| ABAY | Warren Paving<br>712 Lee Lane<br>Salem, KY 42078<br>(Water Absorption = 0.3)<br>(Spec. Gravity - SSD = 2.70)<br>*SMM: APS00007480* | Stone<br>(Limestone; Slats Lucas Quarry) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete<br>(Friction Rating = III)<br>4) Portland Cement Concrete<br>(excluding bridge decks)<br>5) Riprap & Stone Revetment |
| | | | |
| AB78 | Winn Materials<br>Clarksville, TN<br>(Water Absorption = 0.6)<br>(Sp. Gravity - SSD = 2.7)<br>(Sp. Gravity - App = 2.72)<br>(Sp. Gravity - Bulk = 2.68)<br>*SMM: APS00007500* | Stone<br>(Siliceous Limestone) | 1) Base & Surface Course<br>2) Asphaltic Surface Treatment<br>3) Asphaltic Concrete and PCC<br>(Friction Rating = IV)<br>(excluding bridge decks)<br>4) Bedding Material<br>5) Riprap & Stone Revetment |

**ENDNOTES TO SECTION B:**

1. *Due to the high apparent gravity of this aggregate, the yield of asphaltic concrete mixtures utilizing this material would be less than standard mixtures.*

2. *May be used in a final Asphaltic Concrete Wearing Course where the ADT per lane is less than 1000 VPD or the ADT per roadway is less than 2000 VPD and this aggregate does not constitute more than 70% by volume of the total aggregate in the mixture.*

3. *May be used as a Friction Rating of II in final Asphaltic Concrete Wearing Surfaces where the ADT for the total roadway is less than 40,000 VPD.*

4. *May be used in Asphaltic Surface Treatment for Type B and Type D applications only.*

5. *Material from this source is restricted in Portland Cement Concrete mixes to cement or cement/fly ash combinations with 0.6% alkalis or less.*

**NOTES:**

**NOTE B-1:**

Refer to Subsections 501.02 and 1003.06 for definition and application of Friction Ratings.

**NOTE B-2:**

All material, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual and tested for conformance to the original specification. Any deviation in composition or performance from the original sample submitted may result in removal of the product from the qualified list.

**REFERENCE:**

DOTD Standard Specifications and Special Provisions, Section 1003
DOTD Supplemental Specifications
DOTD Maintenance Specifications

**No information contained in this list is to be used for promotional purposes.**

State of Louisiana
Department of Transportation and Development

Qualified Products List 41

# ASPHALTIC MATERIALS

| SMM Material Codes | | | | | |
|---|---|---|---|---|---|
| **Product** | **SMM Material Code** | **Product** | **SMM Material Code** | **Product** | **SMM Material Code** |
| Binder 58-22 | **1002M00020** | Emulsion SS-1 | **1002M00080** | Emulsion EPR-1 | **1002M00150** |
| Binder 64-22 | **1002M00030** | Emulsion SS-1H | **1002M00090** | Emulsion AEP | **1002M00160** |
| Binder 70-22m | **1002M00040** | Emulsion CRS-2 | **1002M00100** | Emulsion SS-1P | **1002M00170** |
| Binder 76-22m | **1002M00050** | Emulsion CMS-2 | **1002M00110** | Polymer Modified Emulsion | **1002M00175** |
| Binder 70-22 Alt | **1002M00060** | Emulsion CSS-1 | **1002M00120** | Emulsion SS-1L | **1002M00180** |
| Binder PG 82-22m | **1002M00065** | Emulsion CSS-1H | **1002M00130** | NTSS-1HM | **1002M00185** |
| PAC- 15 for Asph. Surf. Treatment | **1002M00070** | Emulsion CSS-1HP | **1002M00135** | Cutback MC-30 | **1002M00180** |
| | | Emulsion CRS-2P | **1002M00140** | Cutback MC-70 | **1002M00200** |
| | | Emulsion CQS-1H | **1002M00145** | Cutback MC-250 | **1002M00210** |

| **PRODUCT SOURCE CODE** | **PRODUCT** | **SOURCE** |
|---|---|---|
| 4124 | Cutback Asphalt (MC-30, MC-70) | Asphalt Products Unlimited, Inc.<br>4675 Interstate Highway<br>Port Allen, LA 70767<br>*SMM: APS00000330* |
| 4125 | Emulsified Asphalt (SS-1, SS-1h, CRS-2, CQS-1H[2]) | |
| 4178 | Emulsified Polymerized Asphalt (SS-1L) | |
| 41CH | Emulsified Polymerized Asphalt (CRS-2P) | |
| 41CI | AEP Asphalt Emulsion Prime | |
| 41EG | NTSS-1HM Anionic "Trackless Tack" | |
| 41FG | Polymer Modified Emulsion (PME) | |
| | | |
| 4162 | Emulsified Petroleum Resin (EPR-1) | Blacklidge Emulsions, Inc.<br>11030 Reichold Road<br>Gulfport, MS 39503<br>*SMM: APS00000340* |
| 4163 | Emulsified Asphalt (SS-1, CRS-2) | |
| 41EJ | PG 82-22RM[1] | |
| 41EL | NTSS-1HM "Trackless Tack" | |
| 41EN | SS-1H | |
| 41FN | PG 64-22 | |
| 41FO | PAC-15 | |
| 41FS | CRS-2P | |
| 41FU | PG 76-22M | |

| PRODUCT SOURCE CODE | PRODUCT | SOURCE |
|---|---|---|
| 41FW | CRS-2P | Blacklidge Emulsions, Inc.<br>835 Cochrane Causeway<br>Mobile, AL 36610<br>*SMM: APS00011500* |
| | | |
| 41EH | PG 64-22 | Calumet Lubricants Co.<br>3333 Midway Avenue<br>Shreveport, LA 71109<br>*SMM: APS00002480* |
| | | |
| 41FI | NTSS-1HM | Calumet Lubricants Co.<br>10234 Highway 157<br>Princeton, LA 71067<br>*SMM: APS00011030* |
| | | |
| 41EM<br>41FK<br>41FM | MC-30 Cutback Asphalt<br>PG 76-22M<br>PG 70-22M | Ergon Asphalt & Emulsions<br>P. O. Box 13387<br>1989 Channel Avenue<br>Memphis, TN 38113<br>*SMM: APS00010280* |
| | | |
| 4181<br><br>4187 | Emulsified Asphalt<br>(SS-1, CRS-2)<br>Emulsified Polymerized Asphalt<br>(CRS-2P) | Ergon, Inc.<br>209 Airport Road<br>Mt. Pleasant, TX 75455<br>*SMM: APS00000350* |
| | | |
| 41FL | PG 76-22M | Ergon Asphalt & Emulsion<br>7890 Birmingport Road<br>Mulga, AL 35118<br>*SMM: APS00011110* |
| | | |
| 4134<br><br>4182<br><br>41BT<br>41AU<br>41AT<br>41CJ<br>41EE<br>41FD | Emulsified Ashpalt<br>(CRS-2, CQS-1H[2])<br>Emulsified Polymerized Asphalt<br>(CRS-2P)<br>PG 64-22[1]<br>PG 70-22M[1]<br>PG 76-22M[1]<br>CSS-1<br>CSS-1HP<br>Polymer Modified Emulsion (PME) | Ergon Refining, Inc.<br>P. O. Box 309<br>2611 Haining Road<br>Vicksburg, MS 39180<br>*SMM: APS00000360* |

| PRODUCT SOURCE CODE | PRODUCT | SOURCE |
|---|---|---|
| 41EY<br>41FE<br>41FV | PG 64-22[1]<br>PG 70-22M[1]<br>PG 76-22M | Hunt-Southland Refining Company (Heidelberg)<br>177 Haney Road<br>Heidelberg, MS 39439<br>*SMM: APS00000385* |
| | | |
| 4139<br><br>41BF<br>41BM<br>41BG | Cutback Asphalt<br>(MC-30)<br>PG 64-22[1]<br>PG 70-22M[1]<br>PG 76-22M[1] | Lion Oil Company<br>1000 McHenry Street<br>El Dorado, AR 71730<br>*SMM: APS00000390* |
| | | |
| 41BP<br>41BJ<br>41BK<br>41BL | PG 58-28[1]<br>PG 64-22[1]<br>PG 70-22M[1]<br>PG 76-22M[1] | Marathon Petroleum Company, LP<br>P. O. Box AC<br>Garyville, LA 70051<br>*SMM: APS00000400* |
| | | |
| 41EQ<br>41ER<br>41ES<br>41ET<br>41EZ<br>41FC<br>41FH | PG 64-22[1]<br>PG 70-22M[1]<br>CRS-2P<br>Polymer Modified Emulsion<br>PG 76-22M[1]<br>AEP<br>SS-1H | Martin Asphalt Company<br>300 Christy Place<br>South Houston, TX 77587<br>*SMM: APS00010660* |
| | | |
| 41EU<br>41EV<br>41EW<br>41EX<br>41FJ | Polymer Modified Emulsion<br>CRS-2P<br>SS-1<br>CRS-2<br>SS-1H | Martin Asphalt Company<br>100 ½ East Port Neches Avenue<br>Port Neches, TX 77651<br>*SMM: APS00010850* |
| | | |
| 41FA | PG 64-22 | Martin Asphalt Company<br>(Stanolind Facility)<br>10 Sulfur Plant Road<br>Beaumont, TX 77701<br>*SMM: APS00010870* |
| | | |
| 41FB | PG 64-22 | Martin Asphalt Company<br>(Neches Facility)<br>One Gulf State Road<br>Beaumont, TX 77704<br>*SMM: APS00010880* |

| PRODUCT SOURCE CODE | PRODUCT | SOURCE |
|---|---|---|
| 41EC<br>41EA<br>41EB<br>41EP<br>41FF | PG 64-22[1]<br>PG 70-22M[1]<br>PG 76-22M[1]<br>PAC-15<br>PG 82-22rm | Pelican Refining Co., LLC<br>4646 Old Town Road<br>Lake Charles, LA 70615<br>*SMM: APS00000410* |
| | | |
| 41EO | PAC-15 | Pelican Refining Co., LLC<br>17310 Market Street<br>Channelview, TX 77530<br>*SMM: APS00010050* |
| | | |
| 41FP | Emulsified Petroleum Resin<br>(EPR-1) | PennzSuppress Corporation<br>360 Nueces #3609<br>Austin, TX 78701<br>*SMM: APS00000420* |
| | | |
| 41FQ<br>41FT | PG 64-22 (PG 67-22)<br>PG 70-22M | Shell Oil Products, US<br>11842 River Road<br>St. Rose, LA 70087<br>*SMM: APS00011250* |
| | | |
| 41FR | PG 76-22M | Shell Oil Products, US<br>835 Cochrane Causeway<br>Mobile, AL 36610<br>*SMM: APS00001270* |
| | | |
| 41DT<br>41DU<br>41DV | PG 64-22[1]<br>PG 70-22M[1]<br>PG 76-22M[1] | TOTAL Petrochemicals USA, Inc.<br>P. O. Box 849<br>Hwy. 366th & 32nd Street<br>Port Arthur, TX 77642<br>*SMM: APS00000480* |
| | | |
| 41DO<br>41DP<br>41DQ<br>41DR<br>41DS | PG 58-28[1]<br>PG 64-22[1]<br>PG 70-22M[1]<br>PG 76-22M[1]<br>MC-30 Cutback Asphalt | Valero Marketing and Supply<br>10455 Hwy 18<br>St. James, Louisiana 70086<br>*SMM: APS00000510* |

**ENDNOTES:**

1. *Material is approved for the Louisiana Approved Supplier Certification Program*

2. *CQS-1H allowed by Contract Specifications only.*

3. *Binders with rotational viscosity values higher than 3.0 Pascal Seconds should be used with caution and only after consulting with the supplier as to any special handling procedures and guarantees of mixing and pumping capabilities.*

**REFERENCE:**

DOTD Standard Specifications, Subsection 1002.01 (Metric/English)
DOTD Special Provisions (Metric/English)
DOTD Maintenance Specifications, DOTD 158-001, DOTD 164-002 and DOTD 164-003 Louisiana Approved Supplier Certification Program

**NOTE:**

All material, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual and tested for conformance to the original specification. Any deviation in composition or performance from the original sample submitted may result in removal of the product from the qualified list.

**No information in this list is to be used for promotional purposes.**