



**Request for City Council Committee Action
From the Departments of Public Works and Procurement**

Date: March 20, 2007
To: Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee
Referral to: Honorable Paul Ostrow, Chair Ways & Means Committee

Subject: Approval of Official Publication No. 6748 - Bids for Gray/Black Colored Class A Aggregate

Recommendation:

Acceptance of the low bid of Martin Marietta Materials for an estimated annual expenditure of \$260,000.00 to furnish and deliver Class A aggregate as needed through March 31, 2008, as follows:

10,000 tons	Gray/Black Seal Coat Chip Aggregate	Per Ton - Delivered	\$ 26.00
	3/8" Washed Chip from St. Cloud Quarry		

Vendor agrees to allow quantities to be increased up to 100% with no increase in price.

Terms are net 30 days. F.O.B. Various locations as directed.

Further recommend proper Officers be authorized and directed to execute a contract for this service all in accordance with our specifications.

Contingent on approval of the Civil Rights Department.

Prepared by: Gary Warnberg Director, Procurement

Approved by: Steven A. Kotke, P.E. Director of Public Works

Presenters: Paul Ogren Director of Field Services

Permanent Review Committee (PRC)	Approved _____	Not Applicable <u>XXX</u>
Policy Review Group (PRG)	Approved _____	Not Applicable <u>XXX</u>

Financial Impact (Check those that apply)
 No financial impact - or - Action is within current department budget.
(If checked, go directly to Background/Supporting Information)

Action requires an appropriation increase to the Capital Budget
 Action requires an appropriation increase to the Operating Budget
 Action provides increased revenue for appropriation increase
 Action requires use of contingency or reserves
 Business Plan: X Action is within the plan Action requires a change to plan

Request provided to department's Finance Department contact when provided to the Committee Coordinator

Community Impact

Neighborhood Notification:	Not Applicable
City Goals:	City's infrastructure will be well maintained
Comprehensive Plan:	Not Applicable
Zoning Code:	Not Applicable

Background/Supporting Information:

Tabulation of two (2) bids received on Official Publication No. 6748 for Gray/Black Colored Class A Aggregate is attached.

Attachments - Tabulation Sheet

cc: P. Ogren
K. Danen
J. Klejwa
R. Nubbe/S. Wilcox

"BIDS FOR GRAY/BLACK COLORED CLASS A AGGREGATE" - P/W Engineering Lab

Offl. Publ. #6748
 Bids opened 10 AM, CST
 February 15, 2007
 Minneapolis MN

	Dresser Traphak Inc.	Martin Maretta Materials						
1. 10,000 tons Gray/Black Seal Coat Chip Aggregate \$/ton	25.00	26.00						
Bidder proposes to supply type of Seal Coat Chip Aggregate	—	3/8" washed chip						
Bidder offers to extend for add'l years after 3-31-08	0	0						
Bidder agrees qtys maybe increased up to 100% Yes	yes	yes						
Other								
Cash discount - % 20 days	0	0						

We, the undersigned, hereby certify that the above bids were publicly opened and read aloud:

P. O'Brien
 for FINANCE OFFICER

David M. Gamm
 ASST. DIRECTOR, PURCHASING

CITY OF MINNEAPOLIS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING MATERIALS & TESTING DIVISION
ENGINEERING LABORATORY
1901 EAST 26TH STREET
MINNEAPOLIS, MINNESOTA 55404-4028

MEMORANDUM



TO: Paul W. Ogren, P.E.
Director of Field Services

FROM: Kevin J. Danen, P.E.
Materials & Testing Engineer

DATE: March 6, 2007

SUBJECT: OP #6748 – Gray/Black Colored Class A Aggregate

The formula we use every year to determine the winning bid for Seal Coat Chips, includes Specific Gravity. The specific gravity of solids is defined as the ratio of density of the material to the density of water. If the specific gravity is greater than 1.0 this means that the density of the material is greater than the density of water, and if the specific gravity is less than 1.0 this implies that the density of the material is less than the density of water.

The specific gravity of the product from Dresser Trap Rock is 2.97 and the specific gravity of the product from Martin Marietta is 2.71, as stated in the specifications. This means that one cubic foot of Dresser Trap Rock weighs 2.97 times more than one cubic foot of water, and that one cubic foot of Martin Marietta material weighs 2.71 times more than one cubic foot of water. One can see from the specific gravity numbers that the Martin Marietta material is less dense than the Dresser Trap Rock material. Since the Martin Marietta material is less dense, it takes a greater volume of material to make up a ton, thus we get more Martin Marietta material per ton. We then need to determine the costs of these materials by an equivalent volume.

In order to determine an equivalent volume based upon the specific gravities, we compare the specific gravities by dividing the specific gravity of 2.97 by 2.71 which equals 1.096.

Dresser Trap Rock -> $\$25.00 \times 1.096 = \27.40 per equivalent volume
Martin Marietta -> $\$26.00 \times 1 = \26.00 per equivalent volume

Thus, Martin Marietta is cheaper per equivalent volume.

With seal coat chips, we are interested in how many square feet of roadway we can cover with the chips, so we want to order the material that gives us a greater volume per ton ordered. The Martin Marietta material gives us a greater amount of material by weight, and as shown by the above calculations, it is the less costly material.