



Fulton County, GA

Department of Purchasing & Contract Compliance

*Cecil S. Moore, CPPO, CPPB, CPSM, C.P.M., A.P.P
Director*

September 16, 2011

Re: 11ITB79735K-JAJ

Welcome All Park Multi-Purpose Facility Partial Roof Replacement & Skylight Repair

Dear Bidders:

Attached is one (1) copy of Addendum 3, hereby made a part of the above referenced Invitation to Bid.

Except as provided herein, all terms and conditions in the Bid referenced above remain unchanged and in full force and effect.

Sincerely,

James A. Jones

**James A. Jones
Assistant Purchasing Agent**

Winner 2000 - 2009 Achievement of Excellence in Procurement Award • National Purchasing Institute



130 Peachtree Street, S.W., Suite 1168 • Atlanta, GA 30303 • (404) 612-5800

11ITB79735K-JAJ

Welcome All Park Multi-Purpose Facility Partial Roof Replacement & Skylight Repair

Addendum No. 3

Page Two

This Addendum forms a part of the contract documents and **modifies** the original ITB documents as noted below:

- 1. Roof Sampling and Analysis conducted by Raymond Engineering – Attachment 1**

ACKNOWLEDGEMENT OF ADDENDUM NO. 3

The undersigned proposer acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Department of Purchasing & Contract Compliance, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the ITB due date and time **October 3, 2011, 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 3, _____ day of _____, 20__.

Legal Name of Bidder

Signature of Authorized Representative

Title



RAYMOND
ENGINEERING

**ROOF SAMPLING AND ANALYSIS
WELCOME ALL PARK MULTIPURPOSE FACILITY
4255 WILL LEE ROAD
COLLEGE PARK, GEORGIA 30349**



**Prepared for:
Shaw Environmental & Infrastructure, Inc.
11560 Great Oaks Way Suite 500
Alpharetta, Georgia 30022**

September 15, 2011

Brent Iverson, R.R.C., R.R.O.

Raymond Ramos, P.E., R.R.C.

1. Assignment

- 1.1. Subject: Roof Sampling and Asbestos Analysis
- 1.2. Location: 4255 Will Lee Road, College Park, Georgia
- 1.3. Purpose: At selected openings, examine substrate conditions and perform a laboratory analysis of samples.

2. Scope of Services

- 2.1. To visually inspect the materials removed at each opening and measure thicknesses of insulation.
- 2.2. Asbestos analysis of selected membrane and base flashing samples.
- 2.3. Prepare a report of findings.

3. Participating Personnel

The following personnel were either contacted or were present during the inspection of the subject facility:

- 3.1. Mr. Brent Iverson, R.R.C., R.R.O., Raymond Engineering-Georgia, LLC
- 3.2. Mr. Anthony Dukes, E.I.T., Raymond Engineering-Georgia, LLC
- 3.3. Mr. Ibrahim S. Abousaud, P.E., Shaw Environmental & Infrastructure Group.
- 3.4. Mr. Terence A. Whitt, Shaw Environmental & Infrastructure Group.
- 3.5. Ms. Michelle Cox, Fulton County Georgia Government

4. Field Inspections

Four roof openings that were approximately 2" in diameter were made at selected locations on September 12, 2011 to evaluate existing conditions. Our observations were as follows:

- 4.1. In general, the roof system consists of a granular SBS cap sheet, multiple layers of fiber glass felt, nominal 1/4" per foot tapered mineral perlite and isocyanurate roof insulation on a 1-1/2" fluted metal deck. See Photograph Nos. 1 through 7.
- 4.2. The results of the roof openings were as follows:
 - 4.2.1. Opening No. 1: See aerial photograph at the end of the report for approximate locations. Modified bitumen membrane is fully adhered to the insulation. Tapered roof insulation is nominal 8" thick mineral perlite

insulation over nominal 2" thick isocyanurate insulation. The deck is nominal 1-1/2" deep metal.

4.2.2. Opening No. 2: See aerial photograph for approximate location. Modified bitumen membrane is fully adhered to the insulation. Tapered roof insulation is nominal 3.5" thick mineral perlite insulation over nominal 2" thick isocyanurate insulation. The deck is nominal 1-1/2" deep metal.

4.2.3. Opening No. 3: See aerial photograph for approximate location. Modified bitumen membrane is fully adhered to the insulation. Tapered roof insulation is nominal 3.5" thick mineral perlite insulation over nominal 2" thick isocyanurate insulation. The deck is nominal 1-1/2" deep metal.

4.2.4. Opening No. 4: See aerial photograph for approximate location. Modified bitumen membrane is fully adhered to the insulation. Tapered roof insulation is nominal 4" thick mineral perlite insulation over nominal 2" thick isocyanurate insulation. The deck is nominal 1-1/2" deep metal.

5. Laboratory Analysis

6.1 On September 13, 2011, roof membrane, base flashing membrane, and wall flashing membrane samples were sent to a laboratory for asbestos testing. Test results for all three samples came back negative for asbestos. A copy of the laboratory test results is included in this report.

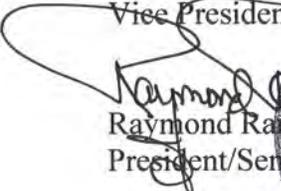
6. Closure

We trust that this report will assist you in analyzing your roofing issues. If you should have any questions regarding the contents of this report or would like to discuss its contents in further detail, please do not hesitate to contact us directly.

Respectfully submitted,
RAYMOND ENGINEERING-GEORGIA, LLC



Brent Iverson, R.R.C., R.R.O.
Vice President, Operations


Raymond Ramos, P.E., R.R.C.
President/Senior Engineer

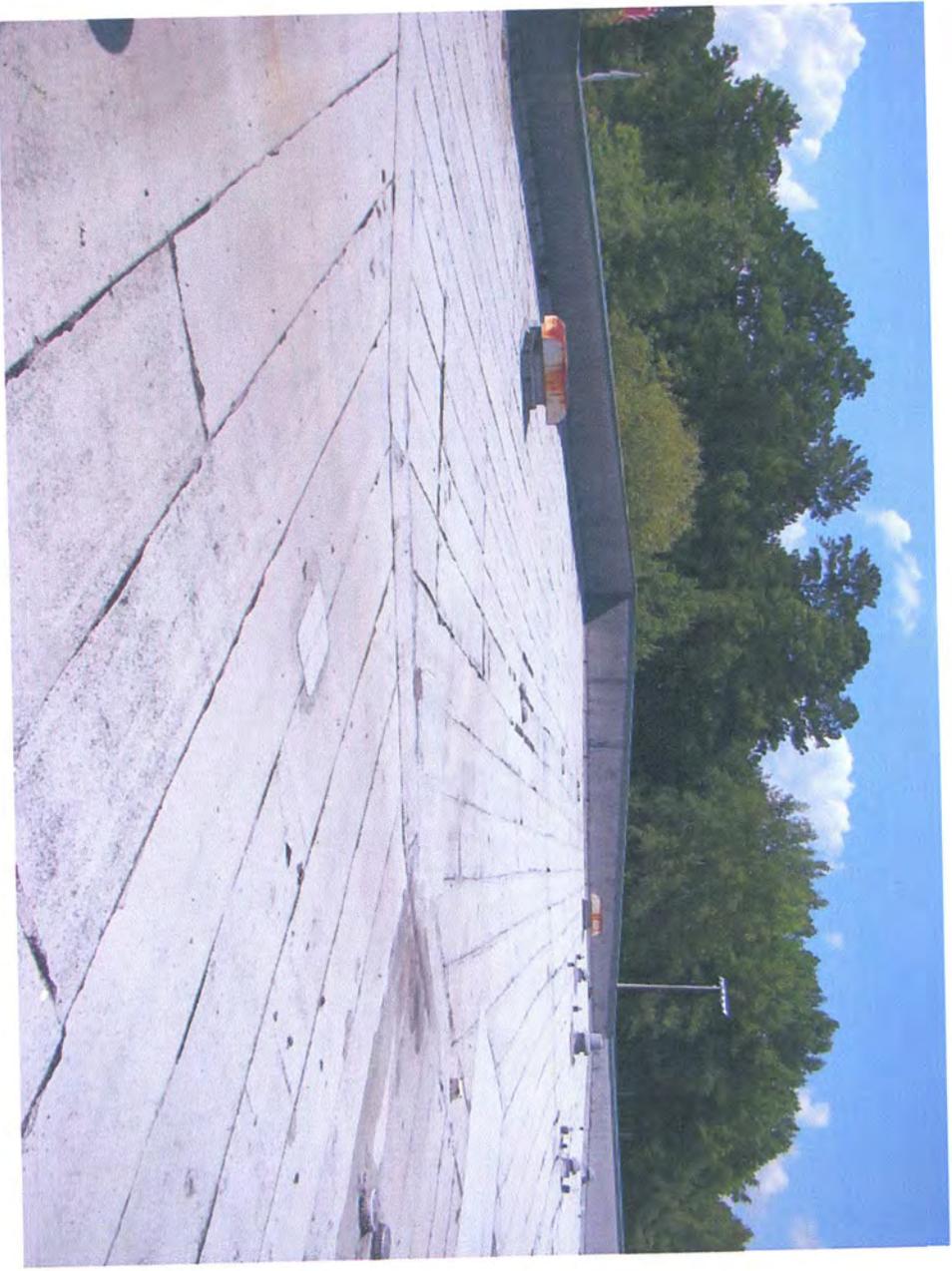


Roofing/Waterproofing Evaluation, Design, Construction Administration, & Litigation Support Services
1224 Royal Drive, Suite 100, Conyers, Georgia 30094

www.RaymondEngineeringLLC.com



Photograph #	1	REI Project No.	1051.027
Date Taken:	September 12, 2011		
Description of Photograph:	Modified bitumen membrane roof area looking North.		
Address:	4255 Will Lee Road, College Park, Georgia		



Photograph #	2	REI Project No.	1051.027
Date Taken:	September 12, 2011		
Description of Photograph:	Modified bitumen membrane roof area looking Northwest.		
Address:	4255 Will Lee Road, College Park, Georgia		



Photograph #	3	REI Project No.	1051.027
Date Taken:	September 12, 2011		
Description of Photograph:	Modified bitumen membrane roof area looking West.		
Address:	4255 Will Lee Road, College Park, Georgia		



Photograph #	4	REI Project No.	1051.027
Date Taken:	September 12, 2011		
Description of Photograph:	Modified bitumen membrane roof area looking South.		
Address:	4255 Will Lee Road, College Park, Georgia		



Photograph #	5	REI Project No.	1051.027
Date Taken:	September 12, 2011		
Description of Photograph:	Nominal 1-1/2" deep fluted metal roof deck.		
Address:	4255 Will Lee Road, College Park, Georgia		



Photograph #	6	REI Project No.	1051.027
Date Taken:	September 12, 2011		
Description of Photograph:	Opening No. 1. Modified bitumen membrane roof system over approximately 10" thick tapered insulation.		
Address:	4255 Will Lee Road, College Park, Georgia		



Photograph #	7	REI Project No.	1051.027
Date Taken:	September 12, 2011		
Description of Photograph:	Smooth-surfaced modified bitumen membrane wall flashings.		
Address:	4255 Will Lee Road, College Park, Georgia		



9711 Southern Pine Boulevard
Charlotte, NC 28273
704-940-1830 Fax 704-565-4929
NYLAP ID 102075-0

POLARIZED LIGHT MICROSCOPY

Performed by EPA 600/R-93/116 Method

Asbestos Analysis Summary

Client Name Raymond Engineering

1224 Royal Dr
Conyers GA 30094

Date Received 9/14/2011

Client Job Welcome at Park Multipurpose Fac.

Date Analyzed 9/14/2011

Job Number 1355-09-019

Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
11-14923	1	SILVER/BLACK FIBROUS		ND	20 SYNTHETIC 3 CELLULOSE	77 OTHER
11-14924	2	SILVER/BLACK FIBROUS		ND	25 GLASS 5 CELLULOSE	70 OTHER
11-14925	3	BLACK FIBROUS		ND	30 GLASS	70 OTHER

Analyzed by: *Jane Wasilewski*
Additional Comments:

Jane Wasilewski
Laboratory Manager

For heterogeneous samples evenly separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present in Representative Sample). RCF = (Refractory Ceramic Fiber). The results pertain only to the sample identification above. The sample may not be fully representative of the larger material in question. This sheet may not be reproduced except with permission from S&ME, Inc. This report may not be used to claim product endorsement by NYLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber diam are extremely small or if they are bound in a nonionic material. Such materials include floor tile, mastic and asphaltic roofing. Currently, analysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Page 1 of 1



Roofing/Waterproofing Evaluation, Design, Construction Administration, & Litigation Support Services
1224 Royal Drive, Suite 100, Conyers, Georgia 30094
www.RaymondEngineeringLLC.com