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September 22, 2020

Joris Jabouin, Chief Auditor
Broward County Public Schools
600 SE 3rd Avenue, 8th Floor
Fort Lauderdale, Florida 33301

Re: Supplemental Information Related to RSM Roofing Process Analysis Report

Dear Mr. Jabouin:

Pursuant to the request made by an Audit Committee Member during the September 14, 2020 Special Audit Committee Meeting, this document contains updated data tables and metrics for the RSM Roofing Process Analysis report dated September 9, 2020.

During our presentation at the Audit Committee Meeting noted above, it was determined that original sample #10 (Stoneman Douglas Senior High - New Classroom Addition Building 12) as shown on page 7 for the plan review process, and on page 20 for the sub-permitting process related to new roof construction, whereas the other samples related to roof replacements or renovations. As such, the Committee requested that RSM replace sample #10 with a different project that represented a roof replacement or renovation, to increase comparability of data presented.

The pages that follow include updated tables and metrics with a replacement for sample #10, (Hawkes Bluff Elementary School - GOB Renovations). Please refer to the information presented below, where changes to metrics noted between the original and updated data have been highlighted as bold and italicized text.

As the plan review process and sub-permitting process occur independently from each other, the Committee also requested additional information related to the entire timeline from a project's design Authorization to Proceed (ATP) through final roofing sub-permit approval. This table is also included in the supplemental data below.

Respectfully Submitted,

RSM US LLP

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Plan Review Process

The following table modifies and replaces the Plan Review Process table show on page 7 of the report:

Sample #	School Name	Project Name	Discipline	Rounds of BD Review	Total Days in BD Review	Total Days in A/E Queue After BD Review
1	Sandpiper Elementary School	GOB Renovations	Roofing	3	36	146
2	Lake Forest Elementary	GOB Renovations	Roofing	6	134	290
3	Dillard 6-12 School	GOB Renovations	Roofing	4	92	304
4	Blanche Ely Senior High School	GOB Renovations	Roofing	4	70	230
5	Castle Hill Elementary School	GOB Renovations	Roofing	3	27	127
6	Stranahan Senior High	GOB Renovations	Roofing	4	29	176
7	The Quest Center	GOB Renovations	Roofing	4	42	179
8	Walker Elementary School	GOB Renovations	Roofing	6	69	258
9	Riverland Elementary School	GOB Renovations	Roofing	3	33	58
10	Hawkes Bluff Elementary School	GOB Renovations	Roofing	4	95	304

**Our sample was selected from a population of eighty (80) projects that had a Notice to Proceed (NTP) date on or before March 11, 2020.*

The table below provides a summary of the ISS data from the BD's 100% review for the ten (10) sampled projects. This table modifies and replaces the Plan Review Process table show on page 8 of the report. This information also modifies the metrics listed in the Executive Summary on page 3 of the report.

Building Department Review			A/E Response / Resubmittal	
Average Rounds of BD Review Required	Avg. Days in BD Review Per Round	Avg. Total Days in BD Review Per Project	Avg. Days Between BD Review and A/E Resubmittal Per Round	Avg. Total Days Between BD Review and A/E Resubmittal Per Project
4.1	15	63	67	207

Sub-Permitting Process

The following tables modify and replace the Sub-Permitting Process tables show on page 20 of the report. As of the June 10th cutoff date for the original report dated September 9, 2020, five (5) projects had completed the sub-permit process, and five (5) projects were still in process of obtaining a sub-permit. Since that time, three (3) additional projects have completed the sub-permit process. As such the tables below reflect updated data through September 22, 2020:

School Name	Project Name	Permit Status	Rounds of BD Review	Total Days in BD Queue ^(a)	Total Days in Roofer's Queue After BD Review	Days Until Approval ^(b)
Sandpiper Elementary School	GOB Renovations	Approved	6	67	243	310
Blanche Ely Senior High School	GOB Renovations	Approved	6	94	77	171
Castle Hill Elementary School	GOB Renovations	Approved	6	58	125	183
Stranahan Senior High	GOB Renovations	Approved	3	37	103	140
Hawkes Bluff Elementary	GOB Renovations	Approved	4	83	85	168
Lake Forest Elementary	GOB Renovations	Approved	6	102	317	419
Walker Elementary School	GOB Renovations	Approved	6	80	182	262
Riverland Elementary School	GOB Renovations	Approved	5	89	179	268

^(a) Total Days in BD Queue includes the final round of review, which only includes the days in the BD's queue (since the roofer does not revise and resubmit after approval). The BD has an additional round's worth of data compared to the roofer.

^(b) Days Until Approval shows the time between when the BD first received the roofing binder (Round 1) and the date of their final review / approval.

School Name	Project Name	Permit Status	Rounds of BD Review	Total Days in BD Queue	Total Days in Roofer's Queue After BD Review	Days Outstanding ^(c)
Dillard 6-12 School	GOB Renovations	Outstanding	11	150	319	469
The Quest Center	GOB Renovations	1 st – Cancelled ^(d)	1	10	N/A	N/A
		2 nd – Cancelled ^(d)	3	46	92	N/A
		3 rd – Outstanding ^(d)	2	40	30	70

^(c) Days outstanding shows the time between when the BD first received the roofing binder (Round 1) and the total days in the roofer's queue (as of **September 22, 2020**).

^(d) ISS data shows that three different roofers have applied for a roofing sub-permit. The first roofer's permit submission was cancelled after the BD's first round of review (data is excluded from the metrics in the table below), and the second roofer's submission was cancelled after the third round of BD review. The current roofer submitted an initial roofing binder on July 14, 2020 and has completed two rounds.

The table below provides a summary of the ISS data from the Building Department's review of the subcontractor roofing binders. This information also modifies the metrics listed in the Executive Summary on page 3 of the report.

Building Department Review			Roofing Subcontractor Response / Resubmittal	
Average Rounds of BD Review Required	Avg. # of Days in BD Review Per Round	Avg. Total # of Days in BD Review Per Project	Avg. Time Between BD Review and Roofer Resubmittal Per Round	Avg. Total Days Between BD Review and Roofer Resubmittal Per Project
5.3	15	77	36	159


Roofing Project Timeline

The following table shows the timeline for each selected project from the Designer's Authorize to Proceed (ATP) through final approval of the roofing sub-permit.

#	School	Project Name	Designer	Roofing Contractor / Subcontractor	Design ATP Date ^(e)	Roofing Sub-Permit Approval Date	Days Between ATP and Sub-Permit Approval	Roofing Sub-Permit Status
1	Sandpiper Elementary School	GOB Renovations	Hammond and Associates, Inc.	Grace Roofing	3/10/2017	5/16/2020	1163	Approved
2	Lake Forest Elementary	GOB Renovations	Nyarko Architectural Group	Advanced Roofing	1/24/2017	8/16/2020	1300	Approved
3	Dillard 6-12 School	GOB Renovations	Sol-ARCH, Inc.	Bowhead Roofing	12/13/2016	N/A	1379 ^(f)	Outstanding
4	Blanche Ely Senior High School	GOB Renovations	Wolfberg Alvarez & Partners, Inc.	Therma Seal Roofing	11/2/2016	7/22/2019	992	Approved
5	Castle Hill Elementary School	GOB Renovations	Jorge A. Gutierrez Architect LLC	A-1 Duran Roofing	4/20/2017	2/26/2020	1042	Approved
6	Stranahan Senior High	GOB Renovations	Wolfberg Alvarez & Partners, Inc.	Decktight Roofing	10/19/2016	9/26/2019	1072	Approved
7	The Quest Center	GOB Renovations	Nyarko Architectural Group	Advanced Roofing ^(g)	1/24/2017	N/A	1337 ^(f)	Outstanding
8	Walker Elementary School (Magnet)	GOB Renovations	SGM Engineering, Inc.	Tecta America South Florida	4/11/2017	8/27/2020	1234	Approved
9	Riverland Elementary School	GOB Renovations	Laura M. Perez & Associates, Inc.	Southern Coast Enterprises	12/7/2017	7/4/2020	940	Approved
10	Hawkes Bluff Elementary School	GOB Renovations	Sol-ARCH, Inc.	Advanced Roofing	2/6/2017	2/14/2020	1103	Approved

^(e) Actual processing date as shown on the August 2020 Milestone Baseline Schedule. ^(f) Days outstanding as of September 22, 2020.

^(g) Original sub-permit submitted by Tommie B. Butts, Jr. Enterprises was cancelled after one (1) round of BD review. Salomon Roofing was selected as the replacement roofing subcontractor but had their sub-permit submission cancelled after three (3) rounds of BD review. Advanced Roofing was subsequently selected as a replacement roofing subcontractor.



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