

PROJECT MINUTES

Project:	New Bourne Intermediate School	Project No.:	15041
Prepared by:	Joel Seeley	Meeting Date:	1/16/20
Re:	School Building Committee Meeting	Meeting No:	78
Location:	Veterans Memorial Community Center	Time:	6:30pm
Distribution:	School Building Committee Members, Attendees (MF)		

Attendees:

PRESENT	NAME	AFFILIATION	VOTING MEMBER
✓	James L. Potter	Chairman, School Building Committee	Voting Member
✓	Peter J. Meier	Board of Selectmen	Voting Member
	Christopher Hyldburg	School Committee	Voting Member
✓	Natasha Scarpato	Member at Large	Voting Member
✓	Donna Buckley	Member at Large	Voting Member
✓	Richard A. Lavoie	Finance Committee	Voting Member
✓	William Meier	Building Trade Expert	Voting Member
		School Committee	Voting Member
	Frederick H. Howe	Member at Large, Vice-Chairman School Building Committee	Voting Member
✓	Perry P. Davis, EdD	Interim Superintendent of Schools, BPS	Voting Member
✓	Jordan Geist	Director of Business Services, BPS	Non-Voting Member
✓	Anthony Schiavi	Town Administrator	Non-Voting Member
✓	Paul O'Keefe	Local Official Responsible for Building Maintenance	Non-Voting Member
	Elizabeth A. Carpenito	Principal, BES	Non-Voting Member
✓	Kathy Anderson	Elementary/Special Education Secretary	Non-Voting Member
✓	Janey Norton	Principal, PES	
✓	Bill Beatrice	FAI, Architect	
	Robert Brait	Brait Builders (BBC) General Contractor	
	Michael Brait	Brait Builders (BBC) General Contractor	
✓	Joel Seeley	SMMA, OPM	

Item #	Action	Discussion
78.1	Record	Call to Order, 6:30 PM.
78.2	Record	A motion was made by P. Meier and seconded by P. Davis to approve the 12/19/19 School Building Committee meeting minutes. No discussion, motion passed unanimous by those attending, one abstention.
78.3	Record	J. Seeley distributed and reviewed the Budget Tracking Form thru 12/31/19, attached, for the Total Project Budget.
78.4	Record	<p>Warrant No. 51 was reviewed.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> J. Seeley indicated the BVH invoice for the 100% HVAC and extended commissioning services covers the warranty period completing April 30, 2020. <p>A motion was made by P. Meier and seconded by R. Lavoie to approve Warrant No. 51. No discussion, motion passed unanimous.</p>
78.5	Record	<p>J. Seeley distributed and reviewed the FF&E Working Group Award Recommendation for additional FFE Purchase, in the amount of \$2,281.90, attached.</p> <p>A motion was made by P. Davis and seconded by P. Meier to approve the additional FF&E Award, in the amount of \$2,281.90, and recommend approval by A. Schiavi. No discussion, motion passed unanimous.</p>
78.6	Record	<p>J. Seeley distributed and reviewed the Technology Working Group Award Recommendation for additional Technology Purchase, in the amount of \$5,342.70, attached.</p> <p>A motion was made by P. Meier and seconded by N. Scarpato to approve the Technology Award, in the amount of \$5,342.70, and recommend approval by A. Schiavi. No discussion, motion passed unanimous.</p>
78.7	Record	<p>B. Beatrice distributed and reviewed Change Order No. 19, dated 1/16/20 in the amount of \$3,400.63, Change Order Description Form and Change Order Contingency Summary Form, all attached.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> R. Lavoie asked what was the purpose of the added blinds in the iStudio? <i>J. Norton indicated the blinds were to eliminate a potential line of sight in a lockdown event.</i> <p>A motion was made by P. Meier and seconded by R. Lavoie to approve Change Order No. 19, dated 1/16/20 in the amount of \$3,400.63 and recommend signature by A. Schiavi. No discussion, motion passed unanimous.</p>
78.8	Record	J. Seeley distributed and reviewed the MSBA Change Order Review, for change orders 15-16, attached.
78.9	Record	B. Beatrice provided an update on the construction. The exterior punch list work was back punched by the civil engineer and landscape architect, the civil outstanding work is

Item #	Action	Discussion
		related to submitting documentation and the landscape is for grass seeding, which can't be undertaken until spring. The value of the punch list is down to \$23,200. The Commissioning punch list is down to one item, which is scheduled to be completed on the MLK holiday.
78.10	Record	B. Beatrice distributed and reviewed the final Roof Leak report from Thompson and Lichtner, dated 1/16/20 and attached. All roof leaks have been repaired, tested and the damaged interiors refinished.
78.11	Record	J. Seeley distributed and reviewed the draft MSBA Closeout Documents, attached.
78.12	J. Seeley	New or Old Business <ol style="list-style-type: none">1. J. Potter asked that the Eversource Work Orders be reviewed for the pole relocation on Trowbridge Road and the pole removal at the new tennis courts. <i>J. Seeley will review and provide direction to the Committee.</i>
78.13	Record	Next SBC Meeting: February 27, 2019 at 6:30 pm at the Veterans Memorial Community Center.
78.14	Record	A Motion was made by P. Meier and seconded by N. Scarpato to adjourn the meeting. No discussion, motion passed unanimous.

Attachments: Agenda, Budget Tracking Form, FF&E Working Group Award Recommendation for additional FFE Purchase, Technology Working Group Award Recommendation for additional Technology Purchase, Change Order No. 19, MSBA Change Order Review for Change Orders 15-16, final roof leak report from Thompson and Lichtner, draft MSBA Closeout Documents

The information herein reflects the understanding reached. Please contact the author if you have any questions or are not in agreement with these Project Minutes

PROJECT MEETING SIGN-IN SHEET

Project: Bourne Intermediate School Project No.: 15041
 Prepared by: Joel Seeley Meeting Date: 1/16/2020
 Re: School Building Committee Meeting Meeting No: 78
 Location: Veterans Community Center Time: 6:30pm

Distribution: Attendees, (MF)

SIGNATURE	ATTENDEES	EMAIL	AFFILIATION
	James L. Potter	onsetjp@juno.com	Chairman, School Building Committee
	Peter J. Meier	pmeier@townofbourne.com	Board of Selectmen
	Christopher Hyldburg	chrish@alpha-1.com	School Committee
	Natasha Scarpato	scarpato4@comcast.net	Member-At-Large
	Donna Buckley	d.j.buckley23@gmail.com	Member-At-Large
	Richard A. Lavoie	Rich.Lavoie@gmail.com	Finance Committee
	William Meier	Dusty22752@aol.com	Building Trade Expert
			School Committee
	Frederick H. Howe	rickhowe9@gmail.com	Member-At-Large
	Perry Davis	pdavis@bourneps.org	Superintendent of Schools, BPS
	Jordan Geist	jgeist@bourneps.org	Director of Business Services, BPS
	Anthony Schiavi	aschiavi@townofbourne.com	Town Administrator
	Paul O'Keefe	mmachief@gmail.com	Local Official Resp. for Building Maintenance
	Elizabeth A. Carpenito	ecarpenito@bourneps.org	Principal, BES
	Kathy Anderson	kanderson@bourneps.org	Elementary/Special Education Secretary
	Janey Norton	jnorton@bourneps.org	Principial, PES
	Bill Beatrice	bbeatrice@flansburgh.com	Flansburgh Architects (FAI)
	Robert Brait	rbrait@braitbuilders.com	Brait Builders Corporation (BBC)
	Joel Seeley	jseeley@smma.com	SMMA

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Agenda

Project:	Bourne Intermediate School	Project No.:	15041
Re:	School Building Committee Meeting	Meeting Date:	1/16/2020
Meeting Location:	Veterans Memorial Community Center	Meeting Time:	6:30 PM
Prepared by:	Joel Seeley	Meeting No.:	78
Distribution:	Committee Members (MF)		

1. Call to Order
2. Approval of Minutes
3. Approval of Invoices and Commitments
4. Additional FFE Award
5. Additional Educational Technology Award
6. Change Order No. 19
7. Construction Update
8. Project Closeout Review
9. New or Old Business
10. Public Comments
11. Next Meeting: February 27, 2020
12. Adjourn

BOURNE INTERMEDIATE SCHOOL		Edvance Technology Design, Inc.		ISSUED DATE:
70 TROWBRIDGE ROAD		300 Brickstone Square, Suite 201		1/16/2020
BOURNE, MASSACHUSETTS 02532		Andover, MA 01880		dfaria@edvancetech.com
TECHNOLOGY ORIGINAL BUDGET:			\$ 690,000.00	
ADD: Budget Revision #2			\$ 65,000.00	
REVISED BUDGET AMOUNT			\$ 755,000.00	
<i>Technology Purchase Orders/Commitments to date</i>				
<i>(Tech-001-012)</i>			\$ 688,325.44	
<i>Additional Educational Technology - JNorton/JGeist</i>			\$ 55,489.70	
Projectors - We need 4 short throw projector similar to the library one and team rooms. Locations: Room 133, Room 203, Room 204, Room 228. In all three rooms, the projector should be placed where the 4 outlet receptacles are located. These rooms have teachers that are doubled up and/or the space is too small for the hovercam/pilots. Chrome Carts w/ 30 Chromebooks - We need 3 more carts - one per grade level. Also, we need one more cart without chrome books as I am taking a couple chromebooks from all of the carts to make an additional cart. iPads - We need one iPad Cart with 30 iPads. The Idea Lab and the Digital Literacy classes use apps and learning activities that are more compatible with the iPad than the chromebooks.				
Subtotal			\$ 2,200.00	Bretford Cube Cart 30 For Macbook & iPad - Mfr. Part#: HN9B2BG1
			\$ 8,984.86	

BOURNE INTERMEDIATE SCHOOL		Tavares Design Associates, Inc.	
70 TROWBRIDGE ROAD		591 North Avenue, Door 3	
BOURNE, MASSACHUSETTS 02532		Wakefield, Massachusetts 01880	
FF&E ORIGINAL BUDGET:			\$ 690,000.00
ADD: Budget Revision #1			\$ 20,000.00
ADD: Budget Revision #2			\$ 30,000.00
REVISED BUDGET AMOUNT			\$ 740,000.00
<i>FF&E Purchase Orders/Commitments to date</i>			
<i>(FFE-001-040)</i>			\$ 741,339.05
<i>Purchase Order No. 41 - Boss Laser</i>			\$ 2,281.90
Subtotal			\$ (1,339.05)

rob@tavaresdesign.com

ADDITIONAL EDUCATIONAL TECHNOLOGY BID RESULTS

<u>Item/Link</u>	<u>Quantity</u>	<u>Apple</u>	<u>Ockers</u>	<u>GovConnection</u>	<u>WBMason</u>	<u>Lenovo</u>	<u>Hub_Tech</u>
Epson BrightLink 710UJ WUXGA 3LCD Interactive Laser Display WUXGA model V11H877022	4		\$ 13,880.00				\$ 20,424.50
Bretford Cube Cart for 32 Netbooks/Tablets Gray, Charcoal (TVC32PAC-CK)	4		\$ 3,836.00		\$ 2,820.60		
Lenovo 500E Chromebook G2 11.6" Celeron N4100 4GB RAM 32GB Chrome	90		\$ 33,695.00	\$ 32,625.00			\$ 29,969.10
New Apple iPad (10.2-Inch, Wi-Fi, 32GB) - Space Gray (Latest Model)	30	\$ 8,820.00					
Additional Cart	1		\$ 2,200.00				
			Total \$ 57,689.70				
Approved at 11/21/2019 SBC Meeting			\$ 52,347.00				
Increase Needed			\$ 5,342.70				

Symmes Maini & McKee Associates, Inc. (SMMA) Bourne School District Bourne Peebles Elementary School BUDGET SUMMARY							BUDGET TRACKING FORM as of: 12/31/2019				
Propay code #	Name	Original PS&B Budget 11/2/2016	Budget Revisions	Current Budget A	Contract Amount B	Expended C	Remaining Contract Amount D	Additional Projected Amount E	(A - B - E) Budget Balance		
1	Feasibility Study Agreement	125,000.00		125,000.00	117,100.00	117,100.00	-	-	7,900.00		
2	OPM Feasibility Study	365,000.00	19,125.00	384,125.00	384,125.00	374,875.00	9,250.00	-	-		
3	A&E Feasibility Study	140,000.00		140,000.00	77,803.00	75,053.00	2,750.00	-	62,197.00		
4	Environmental and Site	120,000.00	(19,125.00)	100,875.00	10,672.13	672.13	10,000.00	-	90,202.87		
	Other	750,000.00		750,000.00	589,700.13	567,700.13	22,000.00		160,299.87		
	Feasibility Study Agreement Subtotal	\$ 750,000.00	\$ -	\$ 750,000.00	\$ 589,700.13	\$ 567,700.13	\$ 22,000.00	\$ -	\$ 160,299.87		
	Administration										
6	Legal Fees	50,000.00		50,000.00	-	-	-	-	50,000.00		
7	Owner's Project Manager	50,000.00		50,000.00	50,000.00	50,000.00	-	-	-		
8	> Design Development	90,000.00		90,000.00	90,000.00	90,000.00	-	-	-		
9	> Construction Contract Documents	50,000.00		50,000.00	50,000.00	50,000.00	-	-	-		
10	> Bidding	800,000.00		800,000.00	800,000.00	752,000.00	48,000.00	-	-		
11	> Construction Contract Administration	54,863.00		54,863.00	54,863.00	-	54,863.00	-	-		
12	> Closeout	40,000.00		40,000.00	-	-	-	-	40,000.00		
13	> Extra Services	15,000.00		15,000.00	3,938.00	3,938.00	-	-	11,062.00		
14	> Reimbursable & Other Services	50,000.00		50,000.00	41,745.00	41,745.00	-	-	8,255.00		
15	> Cost Estimates	5,000.00		5,000.00	1,043.04	1,043.04	-	-	3,956.96		
16	Advertising	50,000.00	(40,000.00)	10,000.00	165.00	165.00	-	-	9,835.00		
17	Permitting	20,000.00		20,000.00	-	-	-	-	20,000.00		
18	Owner's Insurance	20,000.00		20,000.00	32,175.47	19,171.07	13,004.40	-	27,824.53		
	Other Administrative Costs	20,000.00		20,000.00	-	-	-	-	20,000.00		
	Administration Subtotal	\$ 1,294,863.00	\$ -	\$ 1,294,863.00	\$ 1,123,929.51	\$ 1,008,062.11	\$ 115,867.40	\$ -	\$ 170,933.49		
	Architecture and Engineering										
	Basic Services										
21	> Design Development	530,000.00		530,000.00	530,000.00	530,000.00	-	-	-		
22	> Construction Contract Documents	1,060,000.00		1,060,000.00	1,060,000.00	1,060,000.00	-	-	-		
23	> Bidding	130,000.00		130,000.00	130,000.00	130,000.00	-	-	-		
24	> Construction Contract Administration	874,000.00		874,000.00	874,000.00	874,000.00	-	-	-		
25	> Closeout	132,037.00		132,037.00	132,037.00	-	132,037.00	-	-		
26	> Other Basic Services	-		-	-	-	-	-	-		
27	BASIC SERVICES SUBTOTAL	\$ 2,726,037.00	\$ -	\$ 2,726,037.00	\$ 2,726,037.00	\$ 2,594,000.00	\$ 132,037.00	\$ -	\$ -		
	Reimbursable Services										
28	> Construction Testing	40,000.00		40,000.00	-	-	-	-	40,000.00		
29	> Printing (over minimum)	20,000.00		20,000.00	-	-	-	-	20,000.00		
30	> Other Reimbursable Costs	100,000.00		100,000.00	6,047.00	5,647.40	399.60	-	93,953.00		
31	> Hazardous Materials	100,000.00		100,000.00	80,767.50	-	80,767.50	-	19,232.50		
32	> Geotech & Geo-Env.	80,000.00		80,000.00	20,955.00	5,500.00	15,455.00	-	59,045.00		
33	> Site Survey	60,000.00		60,000.00	19,580.00	19,580.00	-	-	40,420.00		
34	> Wetlands	5,000.00		5,000.00	-	-	-	-	5,000.00		
35	> Traffic Studies	40,000.00		40,000.00	-	-	-	-	40,000.00		
	Architectural and Engineering Subtotal	\$ 3,171,037.00	\$ -	\$ 3,171,037.00	\$ 2,853,386.50	\$ 2,624,727.40	\$ 228,659.10	\$ -	\$ 317,650.50		

Symmes Maini & McKee Associates, Inc. (SMMA) Bourne School District Bourne Peebles Elementary School BUDGET SUMMARY									
BUDGET TRACKING FORM as of: 12/31/2019									
CM @ Risk Preconstruction Services									
	Original PS&B Budget 11/2/2016	Budget Revisions	Current Budget	Contract Amount	Expended	(B - C) Remaining Contract Amount	Additional Projected Amount	(A - B - E) Budget Balance	
0502-0001	\$ 30,910,366.00	\$ (2,920,366.00)	\$ 27,990,000.00	\$ 28,256,970.37	\$ 28,049,739.78	\$ 207,230.59	\$ -	\$ (266,970.37)	
89	CSI Description								
89	0502-0100		1,812,505.00	1,812,505.00	1,654,124.36	158,380.64	-	-	
89	0502-0200		636,500.00	636,500.00	635,550.00	950.00	-	-	
89	0502-0300		1,856,811.10	1,856,811.10	1,856,811.10	-	-	-	
89	0502-0400		1,826,850.00	1,826,850.00	1,826,850.00	-	-	-	
89	0502-0500		2,455,284.50	2,455,284.50	2,455,284.50	-	-	-	
89	0502-0600		456,000.00	456,000.00	456,000.00	-	-	-	
89	0502-0700		2,238,010.00	2,238,010.00	2,238,010.00	-	-	-	
89	0502-0800		1,120,135.50	1,120,135.50	1,120,135.50	-	-	-	
89	0502-0900		2,822,394.90	2,822,394.90	2,822,394.90	-	-	-	
89	0502-1000		276,640.00	276,640.00	274,791.30	1,848.70	-	-	
89	0502-1100		499,225.00	499,225.00	499,225.00	-	-	-	
89	0502-1200		406,120.25	406,120.25	406,120.25	-	-	-	
89	0502-1400		113,050.00	113,050.00	113,050.00	-	-	-	
89	0502-2100		328,818.75	328,818.75	328,818.75	-	-	-	
89	0502-2200		981,350.00	981,350.00	981,350.00	-	-	-	
89	0502-2300		2,730,300.00	2,730,300.00	2,730,300.00	-	-	-	
89	0502-2600		2,475,605.00	2,475,605.00	2,475,605.00	-	-	-	
89	0502-3100		2,373,404.00	2,373,404.00	2,373,403.82	0.18	-	-	
89	0502-3200		419,900.00	419,900.00	414,523.00	5,377.00	-	-	
89	0502-3300		761,596.00	761,596.00	761,596.00	-	-	-	
89	0502-9900		1,399,500.00	1,399,500.00	1,402,842.60	(3,342.60)	-	-	
89	0508-0000		266,970.37	266,970.37	222,953.70	44,016.68	-	-	266,970.37
89			\$ 28,256,970.37	\$ 28,256,970.37	\$ 28,049,739.78	\$ 207,230.59	\$ -	\$ (0.00)	
	Alternates								
90	0506-0000		-	-	-	-	-	-	-
90	0506-0000		-	-	-	-	-	-	-
	Alternates Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Miscellaneous Project Costs								
94	0601-0000	84,000.00	84,000.00	24,550.90	24,550.90	-	-	59,449.10	
95	0602-0000	100,000.00	100,000.00	99,000.00	96,502.07	2,497.93	-	1,000.00	
96	0603-0000	-	-	-	-	-	-	-	
97	0699-0000	40,000.00	40,000.00	32,278.00	-	32,278.00	-	7,722.00	
	Other Project Costs (Mailing & Moving)								
	Miscellaneous Project Costs Subtotal		\$ 224,000.00	\$ 155,828.90	\$ 121,052.97	\$ 34,775.93	\$ -	\$ 68,171.10	
	Furnishings and Equipment								
99	0700-0000	690,000.00	690,000.00	741,339.95	682,417.89	58,922.06	-	(1,339.95)	
0702-0000	Equipment								
101	0703-0000	690,000.00	690,000.00	688,325.44	672,206.44	16,119.00	-	66,674.56	
	Computer Equipment								
	Furnishings and Equipment Subtotal		\$ 1,380,000.00	\$ 1,429,665.39	\$ 1,354,624.33	\$ 75,041.06	\$ -	\$ 65,334.61	
	Owner's Construction Contingency								
103	0507-0000	1,545,518.00	4,083,913.63	-	-	-	-	4,083,913.63	
104	0801-0000	643,257.00	643,257.00	-	-	-	-	643,257.00	
	Owners' (soft cost) Contingency								
	Contingency Subtotal		\$ 2,188,775.00	\$ 2,538,395.63	\$ -	\$ -	\$ -	\$ 4,727,170.63	
	Total Project Budget		\$ 39,919,041.00	\$ 34,409,480.80	\$ 33,725,906.72	\$ 683,574.08	\$ -	\$ 5,509,560.20	



Tavares Design Associates, Inc.

Equipment Consultants • Facilities Planners

January 9, 2020

Mr. Joel G. Seeley, AIA, LEED AP BD+C
 COO / Executive Vice President
 Symmes Maini & McKee Associates
 1000 Massachusetts Avenue
 Cambridge, MA 02138

Project: Bourne Intermediate School
 Bourne, Massachusetts
 Additional Requests

Dear Mr. Seeley:

Enclosed is a new PO for the Bourne Intermediate School.

This item is based on the request from the Principal.

The original quote for the laser cutter included this installation cost. It was removed as an instructor felt they could get the unit up and running and it help keep the overall FF&E under budget. The unit is not up and running and the person who thought they could do it, needs service with service the best course of action is to add the installation back in to the project.

We have prepared a PO to the following bidder, should the Owner approve our recommendations:

FEE-041 Boss Laser	\$2,281.90
Total PO Cost	\$2,281.90

Per previous Committee meeting, the overall expenditure is **\$739,057.83**. Including this added PO, the overall expenditure would be **\$741,339.73**. The overall FF&E budget is \$690,000.00.

If you have any questions, please do not hesitate to contact this office. Thank you.

Sincerely,

TAVARES DESIGN ASSOCIATES, INC.

Robert T. Fogarty

RTF/hp

Enclosures

cc: Mr. Bill Beatrice, FA
 Mr. Antone J. Dias, SMMA
 Ms. Sarah A. Traniello, SMMA



Town of Bourne
24 Perry Avenue
Bourne, MA 02532

FID #46-0907459

FF&E PURCHASE ORDER

Quote #C-18512

BILL:
Town of Bourne
24 Perry Avenue
Bourne, Massachusetts 02532

THIS NUMBER MUST APPEAR ON ALL INVOICES, PACKAGES, AND SHIPPING PAPERS
PO# - FFE - 041

DATE: 1/7/20

VENDOR:
Boss Laser

608 Trestle Point, Sanford, FL. 32771
Ashley Cirincione: ashley@bosslaser.com
888-652-1555

SHIP TO:
Name **Bourne Intermediate School**
Address **70 Trowbridge Road, Bourne MA 02532**

DELIVER - AS SOON AS POSSIBLE

QUANTITY	ITEM/MODEL NO.	DESCRIPTION	PRICE PER UNIT	PRICE
1	Onsite Training (BL-004)	Training & Installation does not include payment of machine.	\$2,402.00	\$2,402.00
		Boss Laser is not responsible for moving the machine in any capacity. Package includes 8 hrs. onsite, and all travel expenses.	Discount (5.00%)	-\$120.10

Purchase Order Total: \$2,281.90

BUYER: Town of Bourne
APPROVAL: Anthony Schiavi, Town Administrator

Important:
Only items listed on this purchase order shall be payable.
All terms and conditions of the Bid Documents apply.

BOSSLASER™

608 Trestle Point
Sanford, Florida 32771
United States
Phone: 888-652-1555
Fax: 407-878-0837

Company Name	Quote#: Q-18512
Bourne Intermediate School	Issued: 01-07-2020
Contact:	Expires: 02-07-2020
Robert Fogarty	For questions about this Quote, please contact: Ashley Cirrincione
Phone#:	Email: ashley@bosslaser.com
Email:	

Quote

Billing Address	Shipping Address
Robert Fogarty Bourne Intermediate School Town of Bourne 24 Perry Avenue Bourne, MA 02532	Robert Fogarty Bourne Intermediate School 70 Trowbridge Road Bourne, MA 02532

Part Number	Item Name	Item Description	Quantity	List Price	Total
	Onsite Training (BL-004)	Training & Installation does not include placement of machine. Boss Laser is not responsible for moving the machine in any capacity. Package includes 8 hrs onsite, and all travel expenses.	1	\$2,402.00	\$2,402.00
				Subtotal	\$2,402.00
				Discount (5.00 %)	-\$120.10
				Tax (0 %)	\$0.00
				Shipping & Handling Charges	\$0.00
				GRAND TOTAL(\$)	\$2,281.90

SUMMARY OF PURCHASE ORDERS ISSUED UNDER TDA SCOPE OF WORK:												
P.O. NUMBER	EQUIPMENT SUPPLIER	ORIG. P.O. AMOUNT	ADJUST. AMOUNT	REV. P.O. AMOUNT	PAYMENT #1	PAYMENT #2	PAYMENT #3	PAYMENT #4	PAYMENT #5	PAYMENT #6	RECOMM. TO DATE	BALANCE COMPLETE
FFE-001	W.B. MASON CO., INC.	\$371,525.37	\$8,526.87	\$380,052.24	\$750.00	\$172,937.90	\$5,297.08	\$201,131.47		\$685.79	\$380,052.24	COMPLETE
FFE-002	WILLIAMS' PIANO SHOP	\$750.00		\$750.00							\$750.00	COMPLETE
FFE-003	HILLYARD, INC.	\$4,654.56		\$4,654.56		\$4,654.56					\$4,654.56	COMPLETE
FFE-004	SCHOOL HEALTH CORP.	\$2,409.74	-\$100.00	\$2,309.74	\$1,061.04		\$1,248.70				\$2,309.74	COMPLETE
FFE-005	WENGER CORPORATION	\$9,873.00		\$9,873.00			\$9,873.00				\$9,873.00	COMPLETE
FFE-006	SCHOOL SPECIALTY INC.	\$32,512.74	-\$846.48	\$31,666.26		\$31,326.36				\$339.90	\$31,666.26	COMPLETE
FFE-007	DEMCO, INC.	\$2,514.88		\$2,514.88	\$1,257.44			\$1,257.44			\$2,514.88	COMPLETE
FFE-008	UNION OFFICE INTERIORS	\$37,956.00		\$37,956.00		\$32,262.60	\$5,693.40				\$37,956.00	COMPLETE
FFE-009	MONITOR EQUIPMENT CO.	\$26,347.68		\$26,347.68	\$22,395.53	\$3,952.15					\$26,347.68	COMPLETE
FFE-010	RED THREAD SPACES	\$2,507.12		\$2,507.12		\$2,507.12					\$2,507.12	COMPLETE
FFE-011	PRO-QUIP INC.	\$8,400.00		\$8,400.00	\$4,200.00	\$4,200.00					\$8,400.00	COMPLETE
FFE-012	ROBERT H. LORD CO.	\$77,927.34		\$77,927.34		\$28,664.70		\$49,262.64			\$77,927.34	COMPLETE
FFE-013	BSN SPORTS	\$11,383.40		\$11,383.40		\$11,383.40					\$11,383.40	COMPLETE
FFE-014	W.B. MASON CO., INC.	\$2,608.00		\$2,608.00	\$944.00	\$1,664.00					\$2,608.00	COMPLETE
FFE-015	SOUTHPAW ENTERPRISES	\$1,546.98		\$1,546.98	\$773.49	\$773.49					\$1,546.98	COMPLETE
FFE-016	LAKESHORE LEARN. MATERIALS	\$421.32		\$421.32	\$421.32						\$421.32	COMPLETE
FFE-017	SCHOOL SPECIALTY INC.	\$6,158.41		\$6,158.41	\$3,482.35	\$2,676.06					\$6,158.41	COMPLETE
FFE-018	BLICK ART MATERIALS	\$1,325.20		\$1,325.20		\$1,109.24	\$40.77				\$1,150.01	\$175.19
FFE-019	M.D. STETSON COMPANY	\$12,714.74		\$12,714.74		\$12,714.74					\$12,714.74	COMPLETE
FFE-020	HILLYARD, INC.	\$4,179.80		\$4,179.80		\$4,179.80					\$4,179.80	COMPLETE
	TOTALS #1	\$617,716.28	\$7,580.39	\$625,296.67	\$35,285.17	\$303,622.72	\$33,536.35	\$251,651.55	\$0.00	\$1,025.69	\$625,121.48	\$175.19
ADDITIONAL AWARDS - BIDS OF 4/22/19:												
FFE-021	LAKESHORE LEARN. MATERIALS	\$7,515.48		\$7,515.48	\$6,388.16	\$1,127.32					\$7,515.48	COMPLETE
FFE-022	RDC HOLDINGS: SCHOOL FURN.	\$26,494.49		\$26,494.49		\$7,290.54	\$19,203.95				\$26,494.49	COMPLETE
FFE-023	W.B. MASON CO., INC.	\$15,805.50	\$1,645.00	\$17,450.50		\$5,268.00					\$5,268.00	\$12,182.50
FFE-024	MIDWEST TECHNOLOGY	\$5,374.54		\$5,374.54		\$5,374.54					\$5,374.54	COMPLETE
FFE-025	NO AWARD OF THIS CONTRACT	\$0.00		\$0.00							\$0.00	\$0.00
FFE-026	NO AWARD OF THIS CONTRACT	\$0.00		\$0.00							\$0.00	\$0.00
FFE-027	BOSS LASER	\$4,209.30	\$120.10	\$4,329.40			\$4,329.40				\$4,329.40	COMPLETE
FFE-028	W.B. MASON CO., INC.	\$1,821.12		\$1,821.12						\$1,821.12	\$1,821.12	COMPLETE
	TOTALS #2	\$61,220.43	\$1,765.10	\$62,985.53	\$6,388.16	\$19,060.40	\$4,329.40	\$19,203.95	\$0.00	\$1,821.12	\$50,803.03	\$12,182.50

CHANGE ORDER FORM

PROJECT:
BOURNE INTERMEDIATE SCHOOL
70 TROWBRIDGE ROAD
BOURNE, MA 02532

CHANGE ORDER NUMBER CO-1
CHANGE ORDER DATE: January 9, 2020
ORIGINAL CONTRACT NO: FFE-034
SECTION: MISC. EQUIPMENT

CONTRACTOR:
SCHOOL SPECIALTY INC.
100 PARAGON PARKWAY
MANSFIELD, OH. 44903

SCOPE OF WORK: DECREASE Original Contract Amount from \$2,634.62 to \$2,555.75 as follows:
Return Original Award of Blue Cocoon Swing at \$78.87. This swing has already been paid for, but a credit was issued by School Specialty for the return. This swing will be ordered through another source. This change was made per the request of the Principal.

The Original Contract was.....	\$.....2,634.62
Net Change by previous Change Orders.....	\$ 0.00
The Contract Sum prior to this Change Order was.....	\$ 2,634.62
The Contract Sum will be (Decreased) by this Change Order.....	(\$78.87)
The new Contract Sum including this Change Order will be.....	\$ 2,555.75
The Contract Time will be (Unchanged).....	Unchanged
The Date of Completion as of the Date of this Change Order therefore is.....	Same

PREPARED BY:
TAVARES DESIGN ASSOCIATES, INC.:

APPROVED BY:

EDUCATIONAL EQUIPMENT CONSULTANTS

OWNER

ACCEPTED BY:

SCHOOL SPECIALTY INC.
EQUIPMENT CONTRACTOR

DATE

FOR THE AWARDING AUTHORITY

DATE



Massachusetts School Building Authority

Deborah B. Goldberg
Chairman, State Treasurer

James A. MacDonald
Chief Executive Officer

John K. McCarthy
Executive Director / Deputy CEO

January 8, 2020

Mr. Anthony E. Schiavi, Town Administrator
Town of Bourne
Bourne Town Hall
24 Perry Avenue, Room 101
Buzzards Bay, MA 02532

Re: Town of Bourne, Bourne Intermediate School, Construction Change Orders 15-16

Dear Mr. Schiavi:

The Massachusetts School Building Authority (the "MSBA") has reviewed Construction Change Orders 15-16 for the Bourne Intermediate School (formerly the James F. Peebles Elementary School) Project in the Town of Bourne (the "District"). The MSBA review determines which changes, if any, are eligible for MSBA funding. In general, changes in scope beyond the Project Scope specified in the Project Funding Agreement, changes mandated by third parties, and changes for items that are excluded from MSBA funding are not eligible for reimbursement.

For a detailed explanation of the MSBA's Construction Change Order eligibility determinations as well as other policies, please refer to the Change Order Allowance Funding Policy included in Project Advisory 22 and the Change Order Manual included in Project Advisory 29. Note that this Project is subject to the MSBA Change Order Funding Allowance Policy as outlined in Project Advisory 22 that specifies maximum change order eligibility of 1% of the construction budget for new construction and 2% of the construction budget for addition/renovation projects until the total budgeted contingency amount is reached. The MSBA will process a single reimbursement request for Construction Change Orders during the project close-out process.

The MSBA's findings through Construction Change Orders 16 are summarized in the table below, which is excerpted from the full summary table that appears in the attached Construction Change Order Log:

Construction Change Order Summary	Per PFA Amd. No. 1	Per PFA Budget
Revised Total Construction Contingency Budget	\$1,545,518	\$1,545,518
Ineligible Construction Contingency Budget (If Any, Including Approved BRR's)	\$1,236,414	\$1,236,414
Maximum Potentially Eligible Construction Contingency (Including Approved BRR's)	\$309,104	\$309,104

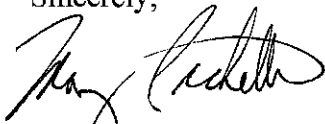
Page 2
 January 8, 2020
 Bourne Construction Change Orders

Total Construction Change Orders 1-16	\$252,454
Total Construction Change Orders Eligible for Reimbursement, Subject to Reimbursement Rate and Audit	\$129,661
Amount Remaining of Revised Total Construction Contingency Budget (Negative amount indicates insufficient Construction Contingency Budget. BRR required.)	\$1,293,064
Amount Remaining of Maximum Potentially Eligible Construction Contingency (Including Approved BRR's) (Negative amount indicates grant basis has been exceeded)	\$179,443
Maximum Potentially Eligible Construction Contingency less Total Construction Change Orders (Applies to projects not subject to Project Advisory 22. Once amount is negative, all subsequent debit change requests will not be eligible.)	\$56,650
Total Credit Change Order Amount Reducing GMP Contingency	\$0

Please note that any District request for reconsideration of the above findings must be submitted to the MSBA on District letterhead within forty-five (45) days of receipt of this letter. Reconsideration of MSBA Construction Change Order determinations is final. In addition to this review, the supporting documentation submitted with reimbursement requests related to Construction Change Orders is subject to audit for specific compliance with MSBA policies and procedures.

If you have any questions regarding this matter, please do not hesitate to contact me or Bill Cross at 617-720-4466.

Sincerely,



Mary Pichetti
 Director of Capital Planning

Cc: Legislative Delegation
 Judith MacLeod-Froman, Chair, Bourne Board of Selectmen
 Christopher Hyldburg, Chair, Bourne School Committee
 Dr. Perry P. Davis, Interim Superintendent, Bourne Public Schools
 Jordan Geist, Director of Business Services, Bourne Public Schools
 James L. Potter, Chair, Bourne School Building Committee
 Joel Seeley, Owner's Project Manager, Symmes Maini & McKee Associates
 Kent Kovacs, Designer, Flansburgh Associates
 File: 10.2 Letters (Region 6)

BOURNE
 BOURNE INTERMEDIATE SCHOOL FORMERLY PEEBLES ELEMENTARY SCHOOL
 CHANGE ORDERS

PCO #	Description	Requested By	Net Added	Net Deducted	Rework Y/N?	Ineligible for Grant Participation	Eligible for Grant Participation	Approximate Cost by Trade*					Reason for Change**			Comment	
								Structural	Site	Utilities	Plumbing	Electrical	HVAC	Misc.	Design Issue		New Scope Directed by Owner	Differing Conditions	New Scope Directed by 3rd Party
Change Order #001 \$22,114																	
1	Relocation of Utility Pole	General Contractor	7,368		NO	7,368		7,368									The Contract Drawings provide for a new temporary construction access road during Phase 2 and 3. An existing utility pole is located within this temporary roadway. This change will relocate this existing utility pole to an area outside of the construction access roadway.
2	Installation of Additional Water Main Piping	Water District	14,746		NO	14,746		14,746									The Contract Drawings provide a water main around the building with fire hydrants tied to the water main. One branch line deadends to a hydrant. The Water District requested this dead end be extended to an existing water main to provide for a continuous loop.
Change Order #002 \$32,209																	
3	Provide Floor Trough in Kitchen 152	Designer	11,712		NO		11,712										The Contract Drawings include a tilting kettle in Kitchen 152 and no floor drain. A trough type floor drain was added to receive the fluid from this unit.
6	Provide plumbing pipe, traps & vents for acid neutralization system.	Plumbing Inspector	11,583		NO	11,583		11,583									The Contract Documents provided an acid neutralization system for the high efficiency condensing boilers condensing water, which is slightly acidic. The Plumbing Inspector requested that additional traps be added on hub drains for the system.
8	Add emergency eyewash station in Mechanical 166	Plumbing Inspector	4,274		NO		4,274										The Contract Drawings did not provide for a safety eyewash in the Mechanical Room 166. The Plumbing Inspector requested a safety eyewash station in Mechanical Room 166 due to the intended use of glycol in the mechanical system.
9	Add power to circulation desk in Media Center 130.	Designer	1,525		NO		1,525		1,525								The Contract Drawings did not provide electrical outlets at the circulation desk in Media Center Room 130. This change adds two electrical outlets at the circulation desk.
11	Extend height of (3) site lighting poles adjacent to block retaining wall.	Designer	3,114		NO	3,114		3,114									The Contract Drawings provided for three (3) site lighting poles, located adjacent to the top of the modular block retaining wall on the north side of the site. Due to existing grades it was noted that the light poles placed on the opposite of the retaining wall would be too low. In order to have the light poles at the correct height, longer light poles were required.
Change Order #003 \$13,561																	
10R2	Provide laminated glass in lieu of tempered glass at entries.	Owner	4,097		NO		4,097		4,097								The Contract Drawings provided for tempered glazing at the building entries. The Owner requested that this tempered glass be replaced with bullet resistant glazing at all exterior entry doors and sidelights.
12R1	Provide (2) additional pull boxes requested by Eversource	Eversource	9,464		NO	9,464		9,464									The utility company, Eversource requested (2) additional pull boxes beyond what is shown on the Contract Drawings for the electrical ductbank. The pull boxes are 4' x 4' x 4' concrete vaults with manhole covers.
Change Order #004 \$28,669																	
7A	Wall storage cabinets in classrooms	Owner	30,258		NO	30,258		30,258									The Owner requested additional overhead wall cabinets in each classroom to increase storage capacity.
14	Provide power to pit float panel in Mechanical Room 166	Designer	1,031		NO		1,031		1,031								The Contract Drawings provided an acid neutralization system with alarm in Mechanical Room 166. This change adds a duplex GFCI type receptacle to power the alarm panel which was not included in the contract documents.
15	Credit for deleted vent piping not included in COR 006	Designer		(2,620)	NO		(2,620)		(2,620)								PCO No. 6 included the cost of vents for the acid neutralization system in Mechanical Room 166. The venting piping was already owned in the Contract Drawings. This change provides a credit for the vent piping.

OPM: SMMA
 Designer: Flansburgh Associates
 Contractor: Brait Builders Corp.

BOURNE
 BOURNE INTERMEDIATE SCHOOL FORMERLY PEEBLES ELEMENTARY SCHOOL
 CHANGE ORDERS

Construction Type: NEW
 Reimbursement Rate: 48.63%
 Approx. % Complete & SC Date 95% & 5/20/2019
 Delivery Method: DBB

PCO #	Description	Requested By	Net Added	Net Deducted	Rework Y/N?	Ineligible for Grant Participation	Eligible for Grant Participation	Approximate Cost by Trade*						Reason for Change**			Comment			
								Structural	Site	Utilities	Plumbing	Electrical	HVAC	Misc.	Design Issue	New Scope Directed by Owner		Differing Conditions	New Scope Directed by 3rd Party	
	Change Order #005																			
16R1	Change network system from Aruba to Extreme Network platform	Owner	28,371		NO	28,371			28,371							28,371				The town is in the process of changing over the network system in all of the other schools from an Aruba platform to an Extreme platform. Of the three systems specified for the new school, Aruba was submitted by the contractor. This change directs the contractor to provide the Extreme Network in lieu of the Aruba Network to maintain consistency of network systems throughout the school system.
17	Provide grounding rods at (2) added pullboxes per Eversource	Eversource	1,434		NO	1,434											1,434			In a previous change order, (2) pullboxes were added per the request of Eversource. The pullboxes were provided without grounding rods. Eversource requests that these pullboxes be grounded. New scope directed by a 3rd Party is ineligible for reimbursement.
18R1	Add wood blocking for roof snow guards	General Contractor	17,007		NO		17,007									17,007				The contract documents show two rows of snow guards at each of the two sloped roof areas – the Gym and the Classroom wing. However, there was no detail showing how to attach the snow guards to the roof. The roofing contractor provided an additional 2,800 lf of wood blocking to attach the snow guards.
22R1	Add rigid roof insulation at perimeter of concrete roof pad	General Contractor	27,579		NO		27,579									27,579				At the center of the flat roof at the classroom wing, there is a 4" concrete pad that the mechanical equipment sits on to deaden sound transfer into the building. The roof drains are located above this concrete pad. 4" of insulation has to be added to the perimeter of the concrete pad to make up for this change in elevation to properly slope the roof to the roof drains.
	Change Order #006																			
20	Provide custom panel at scoreboard	Owner	616		NO	616										616				A standard scoreboard has been provided for the new scoreboard in the Gym. The existing scoreboard is in memory of Lynne Butler. This change adds a custom signage graphic to the standard scoreboard duplicating the dedication of the previous scoreboard. New scope directed by Owner is ineligible for reimbursement.
23	Rearrange casework at administration waiting room per Owner	Owner		(504)	NO		(504)									(504)				The original design of the administration reception room called for an L-shaped millwork counter and a single accompanying FF&E desk. In reviewing the furniture proposed for this space, the L return for the millwork counter was removed and a second FF&E desk/station was added. A second AI phone controller station and door release button were also added.
27	Add traffic signage per LEED review	USGBC	2,656		NO	2,656										2,656				In the LEED design review response, USGBC requested some exterior traffic signage changes. The net change adds a total of (6) traffic signs and (6) sign posts. Additional signs were requested to identify fuel efficient vehicle parking spaces and electric vehicle charging stations. New scope directed by a 3rd Party is ineligible for reimbursement.
30	Add power and data for copier in Media Center per Owner	Owner	954		NO	954										954				The contract documents show a copier in the Teacher Planning Room. A request was made during review of technology fitout for the project to relocate the copier to the Media Center. This change adds power and data for a copier in the Media Center. New scope directed by Owner is ineligible for reimbursement.
32R1	Coring and sleeves for future photovoltaic system per Owner	Owner	1,973		NO	1,973										1,973				A future photovoltaic system is being considered in the parking lot. An electrical path out of the building was requested to accommodate this future system. Four (4) electrical sleeves need to be cored through the exterior brick and block wall, the air vapor barrier needs to be resealed at the sleeves and the brick needs to be patched for a weathertight condition. New scope directed by Owner is ineligible for reimbursement.

OPM: SMMA
 Designer: Flansburgh Associates
 Contractor: Brait Builders Corp.

BOURNE
 BOURNE INTERMEDIATE SCHOOL FORMERLY PEEBLES ELEMENTARY SCHOOL
 CHANGE ORDERS

Construction Type: NEW
 Reimbursement Rate: 48.63%
 Approx. % Complete & SC Date 95% & 5/20/2019
 Delivery Method: DBB

PCO #	Description	Requested By	Net Added	Net Deducted	Rework Y/N?	Ineligible for Grant Participation	Eligible for Grant Participation	Approximate Cost by Trade*					Reason for Change**			Comment	
								Structural	Site	Utilities	Plumbing	Electrical	HVAC	Misc.	Design Issue		New Scope Directed by Owner	Differing Conditions	New Scope Directed by 3rd Party
	Change Order #007																
13R2	Increase height of wainscot from 36" to 48" per Owner.	Owner	11,745		NO	11,745						11,745					The contract documents call for a plastic laminate wainscot throughout the classroom corridors at a height of 36". The wall above the wainscot is painted drywall. A request was made to increase the height of these panels to 48" to better avoid marks on the walls above the panels and reduce maintenance. New scope directed by Owner is ineligible for reimbursement.
26	Provide base and wall cabinets in Guidance Hall 111.	Designer	4,791		NO	4,791						4,791					The contract documents call for casework via FF&E at the east wall of Guidance Hall 111. This change transfers that casework to the building contract so that this casework will be consistent with the other casework used throughout the project. Project is over the FF&E Cap.
31	Tie new sanitary sewer system into existing sludge tank per DEP	DEP	15,007		NO	15,007						15,007					The contract documents indicate abandoning the existing sludge tank for the sanitary system at the existing Peebles School. DEP has determined that the new school is required to tie into this tank prior to connecting to the existing waste water treatment plant. Over the Site Cap.
	Change Order #008																
29R2	Add water sub-meter per LEED design review.	USGBC	5,088		NO	5,088						5,088					In the LEED design review response, USGBC requested an additional meter on the water supply system. The contract documents required one water meter. This change adds an additional meter to further differentiate the water usage between the overall building and the hot water heating system. New scope directed by a 3rd Party is ineligible for reimbursement..
33	Provide (1) grill and (2) fire dampers at Mech. Rm. 137.	General Contractor	1,296		NO		1,296					1,296					Mechanical Room 137 requires a one hour fire rating at the walls and ceiling of the room. Two ducts penetrating the wall of this room were not rated. This change adds a grill and two fire dampers to those ducts to maintain the required fire rating.
37	Power for added Chromebook storage unit in Guidance Hall 111.	Designer	1,116		NO	1,116								1,116			During a recent technology meeting, a Chromebook storage unit was added to Guidance Hall 111. This storage unit requires power which was not originally required in this location. This change adds one electrical outlet. New Scope directed by Owner is ineligible for reimbursement.

BOURNE
 BOURNE INTERMEDIATE SCHOOL FORMERLY PEEBLES ELEMENTARY SCHOOL
 CHANGE ORDERS

PCO #	Description	Requested By	Net Added	Net Deducted	Rework Y/N?	Ineligible for Grant Participation	Eligible for Grant Participation	Approximate Cost by Trade*					Reason for Change**			Comment	
								Structural	Site	Utilities	Plumbing	Electrical	HVAC	Misc.	Design Issue		New Scope Directed by Owner	Differing Conditions	New Scope Directed by 3rd Party
43	Add photo sensor for lighting controls in Corridor 237.	Designer	1,087		NO	1,087		1,087						1,087			Corridor 237 has a polycarbonate clerestory window up high along the south side of the corridor. This window allows a great deal of natural light to come into the corridor. By adding this sensor, when the natural light is bright enough, the sensor will turn off the lights in this corridor saving energy. New Scope directed by Owner is ineligible for reimbursement.
44R1	Change classroom door hardware per Owner request.	Owner	9,960		NO		9,960				9,960			9,960			Door hardware trim will be added to the corridor door hardware in each of the classrooms (33 doors) to enable occupants to see whether the door is locked. The passage (non-locking) hardware set at (9) classroom communicating doors will be changed to hardware that locks from both sides of the door. Both of these changes are being made to improve security at the classrooms.
Change Order #009 \$31,574.09																	
24	Custom vinyl wall graphic per Owner request.	Owner	2,228		NO	2,228					2,228			2,228			This change adds 6" high custom vinyl wall graphics reading "One School, One Community" above the 10 acrylic wall panels on the east wall of the main corridor outside the administration suite. This graphic was not required by the original contract documents. New scope directed by Owner is ineligible for reimbursement.
36R1	Ductwork and insulation at AHU connection to louver.	General Contractor	5,912		NO		5,912			5,912				5,912			The contract documents call for both intake and exhaust ductwork to run from the AHU's above the Cafeteria and Gym to tie into a large exterior louver that overlays a large steel truss. The intakes and exhausts must be separated by a minimum of 10'. In trying to do this during coordination, the ductwork had to be shifted and resized causing it to envelope several of the truss cross members rather than going through the gaps between the truss members as originally shown. This increased the amount of sheetmetal and insulation necessary to make the connections and to wrap the truss members.
41	Conceal exposed sprinkler lines @ loading dock ceiling.	General Contractor	6,421		NO		6,421		6,421					6,421			The contract documents show the sprinkler piping and heads to be exposed below the ceiling of the loading dock. The contractor proposed a cost to conceal the piping above the ceiling and poke the heads through the ceiling. This approach will look better and decrease the likelihood of future damage to the sprinkler system.
45	Remove and dispose of 150 lf of transit pipe.	General Contractor	6,426		NO	6,426			6,426					6,426			The contract documents advised the contractor of potential subsurface transit (asbestos containing material) pipe on site but did not give a quantity. The contract documents also required removal of any existing pipe within the building footprint. 150 LF of transit pipe was found within the building footprint and removed from the site. This change pays the contractor for the quantity of pipe that was encountered. Removal of hazardous site material is ineligible for reimbursement.
49	Additional AVB at east canopy aluminum panels.	General Contractor	1,852		NO		1,852				1,852			1,852			The entire building is wrapped in a continuous air vapor barrier (AVB). While the AVB wraps the canopy structure, a gutter framing system projects out from the canopy that is not covered by the AVB. The AVB needs to be extended out to wrap this projection to prevent water infiltration.
51	Provide FRP at drywall within Kitchen 152.	Designer	8,736		NO		8,736				8,736			8,736			The walls in the kitchen are a combination of CMU and drywall. Fiberglass reinforced panels (FRP) were provided over the drywall walls for cleanliness and improved maintenance.

OPM: SMMA
 Designer: Flansburgh Associates
 Contractor: Brait Builders Corp.

BOURNE
 BOURNE INTERMEDIATE SCHOOL FORMERLY PEEBLES ELEMENTARY SCHOOL
 CHANGE ORDERS

Construction Type: NEW
 Reimbursement Rate: 48.63%
 Approx. % Complete & SC Date 95% & 5/20/2019
 Delivery Method: DBB

PCO #	Description	Requested By	Net Added	Net Deducted	Rework Y/N?	Approximate Cost by Trade*					Reason for Change**			Comment		
						Structural	Site	Utilities	Plumbing	Electrical	HVAC	Misc.	Design Issue		New Scope Directed by Owner	Differing Conditions	New Scope Directed by 3rd Party
	Change Order #010 \$ (42,944.82)															
5R1	Add soffits and adjust door frames due to coordination.	Designer	4,723		NO		4,723					4,723				During the mechanical, electrical and plumbing (MEP) coordination process, ceilings had to be lowered in various areas to accommodate those systems between the ceilings and the structure. By dropping ceiling in selected areas, soffits had to be added to close off the variations in ceiling heights. Door frames also had to be adjusted down so that they did not extend up above lowered ceilings.
34R1	Adjust administration and media flooring materials.	Owner	4,416		NO		4,416					4,416				In an effort to improve the long term durability of the finish floor materials in the administration office and the media center area, carpet and VCT in the administration area was changed to LVT. Accent carpet areas in the media center were also changed to LVT. While LVT is a more durable product, it is also more expensive than the carpet and VCT originally shown.
55	Add OT/PT ceiling support hood in Room 138 per Owner.	Owner	2,387		NO		2,387					2,387				The contract documents show a ceiling mounted hook for OT/PT in Resource Room 141. An additional ceiling mounted hook was requested by the school in adjacent Self-Contained SPED Room 138. New Scope Directed by Owner is ineligible for reimbursement.
56	Credit for 50% of unused boulder removal allowances	GC		(54,471)	NO			(54,471)					(54,471)			The contract documents required the contractor to carry removal of 500 CY of trench boulders and 2,000 CY of open (non-trench) boulders for the project. The bid form also listed unit prices to be used for both added and deducted boulders from these quantities. As of this date, 411.03 CY of trench boulders have been removed leaving a remaining trench boulder allowance balance of 88.97 CY yet to be removed. To date 213.75 CY of open boulders have been removed leaving a remaining open boulder allowance balance of 1,786.25 CY still available for boulder removal. This credit is 50% of the remaining allowances. Over the Site Cap.
	Change Order #011 \$ 11,597.32															
54	Add time capsule and plaque per Owner request.	Owner	1,930		NO							1,930				A time capsule was added to the project to be placed under the bench in Lobby 101 by the Owner. A bronze wall plaque will identify the location of the time capsule and indicate the date when it will be re-opened. New Scope Directed by Owner is ineligible for reimbursement.
58	Provide brick dedication pavers per Owner request.	Owner	5,166		NO				5,166				5,166			An area adjacent to the main entry of the building called for dedication brick pavers by Owner. This change is for the project to provide the bricks. New Scope Directed by Owner is ineligible for reimbursement.
62	Provide acoustical ceiling panels in iStudio per LEED.	Designer	3,629		NO							3,629				Based pm LEED requirements additional acoustical material within the iStudio is required. Acoustical ceiling tiles will be attached to the drywall ceiling at the north end of this space to achieve the required acoustical value.
65	Add valve for ansul system at kitchen exhaust hood.	Designer	873		NO				873				873			The ansul (fire suppression) system for the kitchen exhaust hood requires two gas valves to function properly. Only one of the two valves was required by the contract documents. A second gas valve was added so that the system could be completed and tested.
	Change Order #012															
63	Provide water service to refrigerators in Rooms 121 and 173A.	Designer	3,288		NO							3,288				Two refrigerators were shown on the EQ drawings in rooms 121 and 173A. The specified refrigerators dispense water and ice. The plumbing drawings did not provide water service to the refrigerators. This change is to provide water service to the refrigerators.
72	Provide additional electrical outlet in Lobby 101 counter.	Designer	659		NO							659				There is a counter in Lobby 101 intended to have a computer on it. A data outlet was provided under the counter but no power was provided. This change adds an electrical outlet under the counter to power the computer intended for this location.

BOURNE
 BOURNE INTERMEDIATE SCHOOL FORMERLY PEEBLES ELEMENTARY SCHOOL
 CHANGE ORDERS

PCO #	Description	Requested By	Net Added	Net Deducted	Rework Y/N?	Ineligible for Grant Participation	Eligible for Grant Participation	Approximate Cost by Trade*					Reason for Change**			Comment	
								Structural	Site	Utilities	Plumbing	Electrical	HVAC	Misc.	Design Issue		New Scope Directed by Owner	Differing Conditions	New Scope Directed by 3rd Party
Change Order #013													\$ 4,565.68				
61	Delete salvage of (3) existing building items per Owner.	Owner	-		NO												
66	Install CO detector in Mechanical Room 137 per Bourne Fire Department	Bourne Fire Department	3,104		NO	3,104			3,104								Contract documents originally called for (3) items to be salvaged from the existing Peebles School (built-in bookcases, temporary office partitions and a chair lift at the stage). The school no longer wished to save these items. Cost associated with additional disposal of this material is offset by cost savings of not having to salvage work.
73	Add AED cabinet per Owner.	Owner	1,462		NO	1,462			1,462								Bourne Fire Department requested the addition of a CO detector in Mech. Rm. 137, tied into the Fire Alarm Control Panel. New Scope Directed by 3rd Party is ineligible for reimbursement. Installation of an AED (automated external defibrillator) was requested by Owner. The existing defibrillator was brought over from the Peebles School. This change is for a new (semi-recessed) cabinet for the unit. New Scope Directed by Owner is ineligible for reimbursement.
Change Order #014													\$ 23,205.40				
67	Electric Power Transfer Installation	Designer	1,674		NO		1,674		1,674								(2) Exterior doors had card readers associated with them. However, the hardware specified for these doors did not have the proper electronic hardware to interface with the card readers. This change is for the addition of power transfer modules to serve the electrical hardware.
68	Added Knox Boxes Per Bourne Fire Department	Bourne Fire Department	2,380		NO	2,380			2,380								(3) Additional Knox Boxes requested by the Bourne Fire Department. One located at the exterior of the building at the west end of the first-floor corridor. The two other boxes located inside the building adjacent to the elevator on the first and second floors. New Scope Directed by Owner is ineligible for reimbursement.
70	Relocation of Basket ball Post and Goal	Owner	4,302		NO	4,302				4,302							Two Basketball Posts were provided in the play area. This change relocates one of the posts creating more space between them. New Scope Directed by Owner is ineligible for reimbursement.
74	New Site Sign Option 1A (wood post)	Owner	6,319		NO	6,319				6,319							The Contract Documents did not define a site mounted school sign at the Trowbridge ramp. The Owner requested a sign, which is 3'x6' (double sided) with wooden posts. New Scope Directed by Owner is ineligible for reimbursement.
77R1	Camera IP Address Change	Owner	6,882		NO		6,882				6,882						IP address change (for the security cameras) requested by the Owner. When the cameras were originally programmed the old IP address from the Peebles School was used. This change reprogrammed the devices to the system.
79	Added Label	Designer	1,649		NO		1,649				1,649						Mailbox millwork in room 104 did not specify labels for teacher's names etc. This change adds 120 brass labels for teacher names on each mailbox.
Change Order #015													\$ (15,012.00)				
80	Panic Buttons & Receivers		2,088		NO	2,088					2,088						(3) Additional Panic Button installed in Administration area at the request of the Owner. Provides greater flexibility and accessibility for the school. New Scope Directed by Owner is ineligible for reimbursement.
86	Boulder Unit Price Final Adjustment (credit)		(18,966)		NO	(18,966)					(18,966)						Final price adjustment for allowances in the specifications for removal of rock. Note, COR 56/PR 29 picked up a partial credit for this item. This final adjustment is for the remaining rock now that the site work has been completed. Over site cap.
88	Eversource Pole Removal		1,866		NO	1,866					1,866						Eversource back charge for removal of abandoned utility pole by the new tennis courts. Over site cap.
Change Order #016													\$ 8,791.00				
83	Resinous Flooring Repairs		3,590		NO		3,590				3,590						Repair work done to the resinous floor in the I-Studio and restroom. Work was required due to unforeseen movement of the concrete slabs.
85	Additional Casework in Room 138		5,201		NO	5,201					5,201						Installation of additional base cabinets and counter requested by the School. New Scope Directed by Owner is ineligible for reimbursement.

PCO #	Description	Requested By	Net Added	Net Deducted	Rework Y/N?	Ineligible for Grant Participation	Eligible for Grant Participation	Approximate Cost by Trade*					Reason for Change**			Comment		
								Structural	Site	Utilities	Plumbing	Electrical	HVAC	Misc.	Design Issue		New Scope Directed by Owner	Differing Conditions	New Scope Directed by 3rd Party
45	Construction Contract Amount (without GMP)	\$30,910,366	\$310,049 1.00%	-\$57,595 -0.19%		\$122,793 0.40%	\$129,661 0.42%	\$0 0.00%	\$32,997 0.11%	\$16,441 0.05%	\$40,620 0.13%	\$57,139 0.18%	\$7,208 0.02%	\$98,049 0.32%	\$141,657 0.46%	\$127,639 0.41%	-\$73,437 -0.24%	\$56,596 0.18%
				\$252,454 0.82%			\$252,454 0.82%							\$252,454 0.82%				\$252,455 0.82%

Construction Change Order Summary (Data Based on PFA, PFA Amendment No. 1)		
1	Construction Contract Amount (without GMP Contingency)	\$30,910,366
2	Total Construction Contingency Budget	\$1,545,518
3	Net Adjustments to Construction Contingency Budget by Approved Budget Revision Requests (BRR's). (Does not include budget transfers from Construction Contingency to Changes Orders)	\$0
4	Construction Contract Amount (without GMP Contingency) (Including Total Construction Change Order Numbers 1-14) (Line 1 + Line 13)	\$31,162,820
5	Total Construction Change Orders as % of Construction Contract Amount (without GMP Contingency) (Line 13 / Line 1)	0.82%
6	Total Construction Change Orders Eligible for Reimbursement as % of Total Construction Change Orders (Line 14 / Line 13)	51.36%
7	Total Construction Change Orders Eligible for Reimbursement as % of Construction Contract Amount (without GMP Contingency) (Line 14 / Line 1)	0.42%
8	Total Construction Change Orders Eligible for Reimbursement as % of Revised Total Construction Contingency Budget (Line 14 / Line 10)	8.39%
9	Total Construction Change Orders Eligible for Reimbursement as % of Maximum Potentially Eligible Construction Contingency (Including Approved BRR's) (Line 14 / Line 12)	41.95%

(Per PFA Budget)

10	Revised Total Construction Contingency Budget (Line 2 + Line 3)	\$1,545,518
11	Ineligible Construction Contingency Budget (If Any, Including Approved BRR's)	\$1,236,414
12	Maximum Potentially Eligible Construction Contingency (Including Approved BRR's) (Line 10 - Line 11)	\$309,104
13	Total Construction Change Order Numbers 1-16	\$252,454
14	Total Construction Change Orders Eligible for Reimbursement, Subject to Reimbursement Rate and Audit	\$129,661
15	Amount Remaining of Revised Total Construction Contingency Budget (Negative amount indicates insufficient Construction Contingency Budget. BRR required.) (Line 10 - Line 13)	\$1,293,064
16	Amount Remaining of Maximum Potentially Eligible Construction Contingency (Including Approved BRR's) (Negative amount indicates grant basis has been exceeded.) (Line 12 - Line 14)	\$179,443
17	Maximum Potentially Eligible Construction Contingency less Total Construction Change Orders (Applies to projects not subject to Project Advisory 22. Once amount is negative, all subsequent debit change requests will not be eligible.) (Line 12 - Line 13)	\$56,650
18	Total Credit Change Order Amount Reducing GMP Contingency	\$0

SITE CAP	
Base Project Cost	30,910,366
Less Site work & Demo	(11,676,071)
	19,234,295
	8%
SITE CAP MAXIMUM	1,538,744
PFA - Budget Site Costs	3,742,000
Budget Amt. Under/(Over) Cap	(2,203,256)
Proposed Eligible Site Change Orders	-

FF&E CAP	
Furnishings	690,000
Equipment	690,000
Computer Equipment	0
Other F&E	-
Agreed Enrollment	460
FFE \$/student	3,000

Change Orders Pending	
CO #	\$0
CO #	\$0
PCO #	
Total	\$0

*The District must characterize the above specified categories including: a) Description, b) Requested by, c) Net Added/Deducted, d) Rework (stating yes or no), e) Amount Ineligible/Eligible for Grant Participation, f) Approximate Cost by Trade, g) Reason for the Change, and h) Comment [rationale/necessity] for the change.

**MASSACHUSETTS SCHOOL BUILDING AUTHORITY
BOURNE PUBLIC SCHOOL DISTRICT
JAMES F. PEEBLES ELEMENTARY SCHOOL
PROJECT # 201400360010
CERTIFICATE OF SUSTAINABLE SCHOOL ACHIEVEMENT**

We hereby certify that the above noted school project has completed all requirements stated in MSBA Sustainable Schools policy as stated in the March 31, 2010 MSBA Board meeting memo, the Project Scope and Budget Agreement and complies with the MSBA Green School Program as follows:

1. Additional reimbursement goals stated in the Project Scope and Budget Agreement associated with the MSBA Green School Program (check one):
 - a. 0.0%
 - b. 1.5% (applicable only for projects registered with CHPS prior to July 1, 2010)
 - c. 2.0%

2. Project type (check one):
 - a. major addition and / or renovation
 - b. new construction.

3. Check one of the following as applicable: (note that 2006 MA-CHPS is only applicable for projects registered with CHPS prior to July 1, 2010)
 - a. Using **2006 MA-CHPS**, for no additional reimbursement, the project achieved a level of 29 points or fewer.
 - b. Using **2006 MA-CHPS**, for 1.5% additional reimbursement, the project achieved a level of 30 -33 points.
 - c. Using **2006 MA-CHPS** for 2.0% additional reimbursement, the project achieved a level of 34 points or greater.
 - d. Using **2009 MA-CHPS**, for no additional reimbursement, the project achieved a level of Verified / 40 points for new construction, 35 points for renovation.
 - e. Using **2009 LEED-S**, for no additional reimbursement, the project achieved a level of Certified / 40 points (including a minimum of 5 points in EA Credit #1).
 - f. Using **2009 MA-CHPS**, for 2% additional reimbursement, the project achieved a level of Leader / 50 points for new construction, 45 points for renovation.
 - g. Using **2009 LEED-S**, for 2% additional reimbursement, the project achieved a level of Silver / 50 points (including a minimum of 5 points in EA Credit #1).

4. Final level of achieved points.

5. Attached as a part of this certification are the final MA-CHPS or LEED-S scorecard and the certification letter from CHPS or USGBC confirming that achievement.

Designer signature: _____ **OPM signature:** _____

Firm: Flansburg Architects

Firm: Symmes Maini & McKee Assoc.

Type name: Kent Kovacs

Type name: Joel G. Seeley

Title: Principal-In-Charge

Title: Project Director

Date: _____

Date: _____

**MASSACHUSETTS SCHOOL BUILDING AUTHORITY
 BOURNE PUBLIC SCHOOL DISTRICT
 JAMES F. PEEBLES ELEMENTARY SCHOOL
 PROJECT # 201400360010
 COMMISSIONING CERTIFICATE OF COMPLETION
 (for Projects having a 10 month re-inspection)
 (Page 1 of 2)**

The undersigned Commissioning Consultant hereby certifies that all requirements for commissioning have been completed in accordance with the Master Commissioning Services Agreement dated November 19, 2014 and Work Order No. BVH-14 dated _____ between the Commissioning Consultant and the MSBA.

Commissioned Systems:

<u>Applicable</u>	<u>Not Applicable</u>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Building Envelope
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Roofing Systems
<input checked="" type="checkbox"/>	<input type="checkbox"/>	HVAC Systems
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plumbing Systems
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Electrical Power Systems
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Voice, Data and Video Systems
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Life Safety Systems
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Building Automation and Control Systems

1. Functional performance tests for each sub-system and system as established by the Commissioning Plan have been executed and satisfactory performance has been achieved.
2. All items listed on the Issues Log have been appropriately resolved.
3. The Post Commissioning site visit (10-months after Substantial Completion) and Project review (if applicable) have been completed.
4. A Final Commissioning Report has been submitted to the MSBA and the Owner.

 Certified: Commissioning Consultant (sign)

Firm: BVH Integrated Services, Inc.

Type name: Colin Dunbar

Title: Commissioning Project Manager

Date: _____

The Owner's Project Manager acknowledges:

1. Functional performance tests for each sub-system and system as established by the Commissioning Plan have been executed and satisfactory performance has been achieved.
2. All items listed on the Issues Log have been appropriately resolved.
3. The Post Commissioning site visit (10-months after Substantial Completion) and Project review (if applicable) have been completed.
4. A Final Commissioning Report has been submitted to the MSBA and the Owner.

 Acknowledged: Owner's Project Manager (sign)

Firm: Symmes Maini & McKee Associates, Inc. (SMMA)

Type name: Joel G. Seeley

Title: Owner's Project Manager

Date: _____

MASSACHUSETTS SCHOOL BUILDING AUTHORITY
BOURNE PUBLIC SCHOOL DISTRICT
JAMES F. PEEBLES ELEMENTARY SCHOOL
PROJECT # 201400360010
COMMISSIONING CERTIFICATE OF COMPLETION
 (for Projects having a 10 month re-inspection)
 (page 2 of 2)

For Completion by the Owner:

Please describe any “callbacks” during the 10 month commissioning corrective period or the one year warranty period.

Routine issues, nothing substantive

- Were the issues resolved to the Owner’s satisfaction? yes no
- If no, please explain:

- Were the consultants responsive to the resolution of the issues? yes no
- If no, please explain:

Certified:

Chief Executive Officer (sign)

Superintendent (sign)

School Committee Chair (sign)

Name: Anthony Schiavi

Name: Perry Davis, Ed.D

Name: Christopher Hyldburg

Title: Chief Executive Officer

Title: Superintendent of Schools

Title: School Committee Chair

Date: _____

Date: _____

Date: _____

**MASSACHUSETTS SCHOOL BUILDING AUTHORITY
BOURNE PUBLIC SCHOOL DISTRICT
JAMES F. PEEBLES ELEMENTARY SCHOOL
PROJECT #201400360010
FINAL REQUEST AND CERTIFICATE FOR REIMBURSEMENT**

-Page 1 of 2-

The undersigned hereby certifies to the best of his/her knowledge and belief that the James F. Peebles Elementary School Project has been completed and constructed in accordance with the Construction Contract Documents.

Certified: **Owner's Project Manager** (sign)

Type Name: Joel G. Seeley

Title: Project Director

Firm: Symmes Maini & McKee Associates, Inc. (SMMA)

Date: _____

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The undersigned hereby certifies to the best of his/her knowledge and belief that the James F. Peebles Elementary School Project has been completed and constructed in accordance with the Construction Contract Documents and all applicable building codes and safety codes in effect at the time of construction; and that the Project was constructed in accordance with the applicable MSBA sustainability requirements.

\_\_\_\_\_  
Certified: **Designer** (sign)

Type Name: Kent Kovacs

Title: Principal-In-Charge

Firm: Flansburgh Architects

Date: \_\_\_\_\_

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**MASSACHUSETTS SCHOOL BUILDING AUTHORITY
 BOURNE PUBLIC SCHOOL DISTRICT
 JAMES F. PEEBLES ELEMENTARY SCHOOL
 PROJECT #201400360010
 FINAL REQUEST AND CERTIFICATE FOR REIMBURSEMENT
 -Page 2 of 2-**

The undersigned hereby further certifies to the best of his/her knowledge and belief that:

- all of the terms and conditions of the Project Funding Agreement for the James F. Peebles Elementary School Project, all other agreements between the Bourne Public School District and the MSBA, and all applicable regulations and guidelines of the MSBA have been satisfied. The undersigned further certifies that any construction related liens have been released.
- the Bourne Public School District shall maintain the James F. Peebles Elementary School and all elements of the project as delivered to the District in a good, safe and habitable condition in all respects, except for normal wear and tear, and in full compliance with M.G.L c. 70B, 963 CMR 2.00 *et seq.*, and all applicable laws, ordinances, covenants and rules and regulations set forth by any government authority with jurisdiction over matters concerning the condition and the use of this facility. The District hereby acknowledges and agrees that it shall spend at least 50% of the sum of the school district's calculated foundation budget amounts for the purposes of foundation utility and ordinary maintenance expenses, and extraordinary maintenance allotment as defined in M.G.L. c. 70, for said purposes.
- The District has received all warranties, vendor materials and training as required by the contract documents.
- the Bourne Public School District has completed the DCAM evaluations of General Contractor, Designer and Subcontractors¹ as required and submitted these evaluations to DCAM on the referenced MSBA funded project.

Certified:

 Chief Executive Officer (sign)

 Superintendent (sign)

 School Committee Chair (sign)

Name: Anthony Schiavi

Name: Perry Davis, Ed.D

Name: Christopher Hyldburg

Title: Chief Executive Officer

Title: Superintendent of Schools

Title: School Committee Chair

Date: _____

Date: _____

Date: _____

¹ The term "subcontractor" shall mean all filed sub-bidders as defined in M.G.L. c. 149, §44F

MASSACHUSETTS SCHOOL BUILDING AUTHORITY
BOURNE PUBLIC SCHOOL DISTRICT
JAMES F. PEEBLES ELEMENTARY SCHOOL
PROJECT #201400360010
MILESTONE SCHEDULE

Please complete the following milestone dates (retroactively or prospectively). Fill in "N/A" for milestones that do not apply. Fill out multiple sheets for projects with more than one phase and indicate the phase on each sheet.

	Scheduled	Actual
OPM Selected / Contracted	<u>6/8/2015</u>	<u>6/8/2015</u>
Designer Selected / Contracted	<u>9/15/2015</u>	<u>9/15/2015</u>
Project Scope & Budget Agreement Executed	<u>12/13/2016</u>	<u>12/13/2016</u>
Project Funding Agreement Executed	<u>3/13/2017</u>	<u>3/13/2017</u>
CM@Risk Award (if applicable)	<u>NA</u>	<u>NA</u>
Bids Received	<u>11/21/2017</u>	<u>11/21/2017</u>
Date of Executed GMP (if applicable)	<u>NA</u>	<u>NA</u>
Notice to Proceed (General Contractor)	<u>12/1/2017</u>	<u>12/1/2017</u>
Project Substantial Completion	Phase 1: <u>5/20/2019</u> Phase 2/3: <u>11/18/2019</u>	Phase 1: <u>4/30/2019</u> Phase 2/3: <u>9/20/2019</u>
Permanent Certificate of Occupancy Student	<u>11/18/2019</u>	<input style="border: 1px solid red; width: 100px; height: 15px;" type="text"/>
Move-In	<u>8/27/2019</u>	<u>8/27/2019</u>
Demolition of Building and Associated Sitework Complete	<u>11/18/2019</u>	<u>9/20/2019</u>
GC Release Retainage / Punch List Complete	<input style="border: 1px solid red; width: 100px; height: 15px;" type="text"/>	<input style="border: 1px solid red; width: 100px; height: 15px;" type="text"/>
GC Contract Final Completion	<input style="border: 1px solid red; width: 100px; height: 15px;" type="text"/>	<input style="border: 1px solid red; width: 100px; height: 15px;" type="text"/>

Completed and Submitted by: Joel G. Seeley

Title: Owner's Project Manager

Date: _____

**MASSACHUSETTS SCHOOL BUILDING AUTHORITY
BOURNE PUBLIC SCHOOL DISTRICT
JAMES F. PEEBLES ELEMENTARY SCHOOL
PROJECT # 201400360010
MASSACHUSETTS SCHOOL BUILDING AUTHORITY
CLOSEOUT QUESTIONNAIRE
(for New Construction and Addition/Renovation projects)**

Please complete this questionnaire ASAP to provide us information that will help us understand the optimal timing for the closeout of the subject project and facilitate the final grant payment to the District/Community. The first step in the closeout process is the develop the final project audit. To initiate the final audit, the District must submit 100% of the project costs to the MSBA via the MSBA's web-based Pro-Pay system. The completion of this questionnaire will help us schedule the final audit. Please note that the MSBA will not reimburse the last 5% of the grant until the audit is complete, the District/Community accepts the audit and the District/Community has completed and submitted the required closeout documents. In the meantime, please complete the following questionnaire ASAP and return it to the MSBA, Attn: Kristine McAndrews.

1.) Before the MSBA can make the final grant payment to the District, the District has to have paid 100% of the project costs and have submitted invoices for those costs to the MSBA.

- Has the District paid 100% of the project costs? yes no
- Has the District submitted all the projects costs to the MSBA through Pro-Pay? yes no
- Was the final payment request marked "F"? yes no
- If all of the invoices have been provided, please explain any difference between the budget and the final project costs.

If all the project costs have been submitted, please move to Question 4.

2.) Please indicate the amounts left to pay on the contract and the reasons:

<input type="checkbox"/> Remaining contract balance	Value: \$ 0.00	Please indicate the anticipated timing of the payment of these costs.
<input type="checkbox"/> Punchlist	Value: \$ 0.00	Please provide a detailed breakdown:
<input type="checkbox"/> Owner claims against the contractor	Value: \$ 0.00	Please explain:
<input type="checkbox"/> Other pending project costs	Value: \$ 0.00	Please explain:
<input type="checkbox"/> Other pending project costs	Value: \$ 0.00	Please explain:
<input type="checkbox"/> Other pending project costs	Value: \$ 0.00	Please explain:

3.) Please estimate the month/year that the district will submit the *final* request for reimbursement.

April 2020

4.) Is there any pending or on-going litigation related to this project? yes no If so, please describe.

5.) Are there/will there be any liquidated damages or back charges assessed on the general or other contractors?

yes no If yes, please describe:

6.) Were there any other sources of revenue to the project?

- | | | |
|--------------------------------------|---|--|
| Legal Settlements | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |
| Grants | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |
| Insurance Proceeds | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |
| Credits | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |
| Rebates | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Rental Revenues | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |
| Other Third Party Sources of Revenue | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |

• If so, please provide details and amounts, and attach documentation that substantiates the sources:

Cape Light Compact: \$77,158.00
NationalGrid: \$11,350.56

Completed and submitted by:

Type name: Perry Davis, Ed.D.
Superintendent of Schools, Bourne Public Schools

Date: _____

Sign name: _____

**MASSACHUSETTS SCHOOL BUILDING AUTHORITY
 BOURNE PUBLIC SCHOOL DISTRICT
 JAMES F. PEEBLES ELEMENTARY SCHOOL
 PROJECT # 201400360010
 SOURCES AND USES FORM**

Uses of Funds:	
Total Project Budget	\$ 39,919,041
(This amount can be found in column 3 within the Budget Detail Tab of the Pro-pay System)	
Total Project Expenditures	\$ <input style="width: 100px; height: 20px;" type="text"/>
(This amount should equal the amount entered into the Pro-pay System, minus duplicate costs)	
Sources of Funds:	
MSBA Grant Amount Received to date	\$ <input style="width: 100px; height: 20px;" type="text"/>
Cash Contribution by the District	\$ <input style="width: 100px; height: 20px;" type="text"/>
General Obligation Bonds issued by the District	\$ <input style="width: 100px; height: 20px;" type="text"/>
General Obligation Bonds to be issued by the District	\$ <input style="width: 100px; height: 20px;" type="text"/>
Legal Settlement *	\$ 0.00
Insurance Proceeds *	\$ 0.00
Rebates*	\$ 88,508.56
Surety Payments*	\$ 0.00
Rental Revenue*	\$ 0.00
All Other Sources – Please list (e.g., other grants)*	\$ 0.00

** Please provide a detailed explanation if applicable:*

**Cape Light Compact: \$77,158.00;
 NationalGrid: \$11,350.56**

Certified:

 Chief Executive Officer (sign)

Name: Anthony Schiavi

Title: Chief Executive Officer

Date: _____

 Superintendent (sign)

Name: Perry Davis, Ed.D

Title: Superintendent of Schools

Date: _____

 School Committee Chair (sign)

Name: Christopher Hyldburg

Title: School Committee Chair

Date: _____

NEW BOURNE INTERMEDIATE SCHOOL
 FORMERLY THE PEEBLES ELEMENTARY SCHOOL
 BOURNE, MASSACHUSETTS

Change Order Budget Summary

Change Order	Change Order Amount	Budget	
-	-	\$ 1,545,518.00	Owner's Construction Contingency
-		\$ 2,920,366.00	PFA Amendment
1	\$ 22,114.01		CR-001; CR-002R3
2	\$ 32,209.44		CR-003; CR-006; CR-008; CR-009; CR-011
3	\$ 13,561.47		CR-10R2; CR 12R1
4	\$ 28,669.16		CR-007A; CR014; CR-015
5	\$ 74,391.91		CR-016R1; CR-017; CR-018R1; CR-022R1
6	\$ 5,695.69		CR-020; CR-023; CR-027; CR-030; CR-032R1
7	\$ 31,541.76		CR-013R2; CR-026; CR-031
8	\$ 18,547.51		CR-029R2; CR-033; CR-037; CR-043; CR-044R1
9	\$ 31,574.09		CR-024; CR-036R1; CR-041; CR-045; CR-049; CR-051
10	\$ (42,944.82)		CR-005R1; CR-034R1; CR-055; CR-056
11	\$ 11,597.32		CR-054; CR-058; CR-062; CR-065
12	\$ 3,946.62		CR-063; CR-072
13	\$ 4,565.68		CR-061; CR-066; CR-073
14	\$ 23,205.40		CR-067; CR-068; CR-070; CR-074; CR-077R1; CR-079
15	\$ (15,012.16)		CR-080; CR-086; CR-088
16	\$ 8,790.78		CR-083; CR-085
17	\$ 1,303.76		CR-081; CR-091; CR-092
18	\$ 13,212.77		CR-082; CR-090R1; CR-094R1; CR-095; CR-102
19	\$ 3,400.63		CR-87R1; CR-100

Change Order Total	Budget Total	Budget Balance
TOTAL	\$ 270,371.02	\$ 4,465,884.00
		\$ 4,195,512.98

Change Order #19 Summary
1/16/20

Change Proposal Number

COR 87 R1		Misc. Kitchen Items	\$2,475.08
COR 100	PR 56	Additional Shades	\$925.55

Total Change Order Value **\$3,400.63**

COR 87 R1 **Misc. Kitchen Items** **\$2,475.08**

Cost associated with misc. kitchen revisions / coordination items. Trim at cooler need to be modified when ceilings were lowered during the coordination process. Modification of hose reel support. Additional SS wall cap.

COR 100 **PR 56** **Additional Shades** **\$925.55**

Cost for (2) additional shades at the glass door between the Art Room and iStudio requested by the School.

Change Order

PROJECT: New Pebbles Elementary School
 (Name,Address) 70 Trowbridge Road
 Bourne, MA 02532

CHANGE ORDER NUMBER: **19**
 INITIATION DATE: January 16, 2020
 ARCHITECTS PROJECT NO: 1514.00
 CONTRACT FOR: New Construction
 CONTRACT DATE: November 30, 2017

TO (Contractor): Brait Builders Corp.
 57 Rockwood Rd., Suite 3
 Marshfield, MA 02050

You are directed to make the following changes in this Contract:

PCO #	PR #	CCD #	Description	Time (days)	Amount
COR 87	R1		Misc. Kitchen Items		\$2,475.08
COR 100	PR 56		Additional Shades		\$925.55

Total ADD **\$3,400.63**

Not valid until signed by both the Owner and Architect. Signature of the contractor indicates his agreement herewith, including any adjustment in the Contract Sum or Contract Time. Reservations of rights for additional time extensions, costs or damages indicated on the attached materials shall be void and superseded by the changes identified on this cover sheet to the Contract Sum and Contract Time for the items included in this Change Order.

The original (Contract Sum) (Guaranteed Maximum Cost) was	.....	\$27,990,000.00
Net change by previously authorized Change Orders	.....	\$266,970.39
The (Contract Sum) (Guaranteed Maximum Cost) prior to this Change Order Was	.....	\$28,256,970.39
The (Contract Sum) (Guaranteed Maximum Cost) Will be (Increased) by this Change Order	.....	\$3,400.63
The new (Contract Sum) (Guaranteed Maximum Cost) including this Change Order Will be	.....	\$28,260,371.02
The Contract Time will be (Unchanged) by	..... ( 0) Days	
The Date of Substantial Completion as of the date of this Change Order therefore is:	Phase 1	May 20, 2019
	Phase 2	August 16, 2019
	Phase 3	November 18, 2019

Authorized:

Flansburgh Architects, Inc.

ARCHITECT
 77 North Washington St.
 Boston, MA 02114

Brait Builders Corp.

CONTRACTOR
 57 Rockwood Road
 Suite 3
 Marshfield, MA 02050

Town of Bourne

OWNER
 Town of Bourne
 24 Perry Avenue
 Buzzards Bay, MA 02532

BY _____

BY _____

BY _____

DATE _____

DATE _____

DATE _____



Change Request

To: Bill Beatrice
Flansburgh Architects
77 N. Washington Street
Boston, MA 02114-1910
Ph: (617)367-3970 x227

Number: 87R1
Date: 1/2/20
Job: PES-2017 Peebles ES
Phone:

Description: COR#87R1 Misc Kitchen Items

Per owner/design requests, this COR is for Miscellaneous Kitchen Equipment modifications.

Work performed by subcontractors:

Description	Subcontractor	Price
Food Service Equipment	Sam Tell Companies	\$2,311.00
	Subtotal:	<u>\$2,311.00</u>
	Subtotal:	<u>\$2,311.00</u>
	OH&P	\$2,311.00 5.00% \$115.55
	GC Bond	\$2,426.55 2.00% \$48.53
	Total:	<u><u>\$2,475.08</u></u>

If you have any questions, please contact me at (781)837-6400.

Submitted by: Robert A Brait
Brait Builders Corp.

Approved by: _____
Date: _____



Change Request

To: Bill Beatrice
Flansburgh Architects
77 N. Washington Street
Boston, MA 02114-1910
Ph: (617)367-3970 x227

Number: 100
Date: 12/2/19
Job: PES-2017 Peebles ES
Phone:

Description: COR#100 PR#56 Additional Shades

Source: PR # 56

Cost to F&I building standard interior shades for (2) doors. Glass doors 124A in the Art room side.

Note: If Brait supervision is required, add \$1,500/day.

Work performed by subcontractors:				
Description	Subcontractor			Price
Window Shades	Walker Specialties			\$864.19
			Subtotal:	\$864.19
			Subtotal:	\$864.19
		OH&P	\$864.19 5.00%	\$43.21
		GC Bonds	\$907.40 2.00%	\$18.15
			Total:	\$925.55

If you have any questions, please contact me at (781)837-6400.

Submitted by: Robert A Brait
Brait Builders Corp.

Approved by: _____
Date: _____



BRAIT BUILDERS CORPORATION

Date: January 16, 2020

Mr. Joel Seeley
Symmes Maini & McKee Associates
1000 Massachusetts Avenue
Cambridge, MA 02138

Subject: Brait Clarifications: T&L Field Report#6 Dated 1-10-20

Dear Mr. Seeley,

In response to your 1-14-20 inquiries related to the **1-10-20 Thompson & Lichtner Field Report #6**, please reference the responses below to closeout this report. All roof and envelope related infiltrations (Field Reports 1-6) have been repaired and confirmed complete by Thompson & Lichtner.

1. Page 8 - Studio Rm:

States Patch in roof, sealant installed at wire tie backs & screws installed at ports (holes).

T&L states they could not see/feel gaskets on top of curb, under vent. I had I&R install all missing screws and opened every vent to show me the gaskets. Sample picture was provided on 1-14-20.

2. Page 10 - Room 211:

This was determined to be a plumbing issue, not roof. HBI replaced the check valve for the hose bib drain. We have tested this and found repair successful.

3. Page 11- Mechanical Room 166:

Repairs are noted, similar to the roof vent curb issue over Studio rm.

4. Page 12 - Bathroom Area near Loading Dock:

Repairs are noted, similar to the roof vent curb issues over Studio room & Mechanical room 166. This also includes infilling low pourable sealer and replacing cracked roof ring.

Please feel free to contact me with any further questions.

Sincerely,

Joseph Amara
Project Manager



BRAIT BUILDERS CORPORATION

cc.
Robert Brait
Michael Brait



January 10, 2020

Mr. Joe Amara [Jamara@braitbuilders.com]
Brait Builders Corporation
57 Rockwood Road, Suite #3
Marshfield, Massachusetts 02050

Re: January 10, 2020
Evaluation of Water Leakage
James F. Peebles Elementary School
70 Trowbridge Road
Bourne, Massachusetts

Dear Mr. Amara:

We report herewith the up-dated results of our visual inspection, vector mapping of the Sarnafil roofing membranes, and water testing to identify the sources of water leakage observed on the interior of the James F. Peebles Elementary School in Bourne, Massachusetts. Inspections for Report No. 1 were made on November 12, 2019; for Report No. 2 on November 21, 2019; for Report No. 3 on November 27, 2019; for Report No. 4 on December 13, 2019; and for Report No. 5 on December 27, 2019. Inspections for this sixth report were made on January 10, 2020. *Changes and/or new observations are marked in bold italics.*

We were originally informed that eight leakage locations had been identified: Seven on ceilings on the first floor, and one in a second floor classroom below a combination of roof areas abutting second floor walls and light monitor walls. Repairs have been performed at all locations. However, water leakage continues at some of the locations.

The following sections of this report describe our interior and exterior observations, and the results of vector mapping and water penetration testing at twelve leakage locations:

- I. Art Room
- II. Second Floor Classroom 233 (Tested January 10, 2020)
- III. Room 128
- IV. Corridor Expansion Joint (Tested January 10, 2020)
- V. Main Entry Vestibule
- VI. Studio Room
- VII. Cafeteria/Auditorium/*Machine Room Double Door* (Tested January 10, 2020)
- VIII. Room 211
- IX. Mechanical Room 166
- X. Bathroom Area Near Loading Dock
- XI. Kitchen Office 153
- XII. Gymnasium Door and Duct (Tested January 10, 2020)

I. ART ROOM — ROOM 125

A. INTERIOR OBSERVATIONS

1. Heavy water staining was observed on the ceiling around the roof drain on the green roof.
2. Small water stains were observed in spots on the ceiling on the north side of the classroom. The stains have increased in size.
3. We were informed that additional water leakage has occurred during recent rainstorms.

B. EXTERIOR OBSERVATIONS — GREEN ROOF

1. The vertical joint between the jambs of the storefront window/metal panel/wood trim and the brick wall are not sealed. The self-adhesive flashing on the back-up wall by the window jamb was visible where the angle closure metal installed on the window jamb is not in contact with the brick.

We were informed that the angle metal closure was removed and that back-up rod and sealant were installed between the jamb and brick wall. The angle closure was reinstalled. We observed sealant installed between the angle closure and the brick wall.
2. There is a step-up in the stainless steel counterflashing in the corners where the counterflashing beneath the cast stone units beneath the storefront window is located approximately 2 inches above the counterflashing in the brick walls. The counterflashing in the brick walls has a turned-up leg beneath the counterflashing beneath the cast stone return into the brick wall.
3. Repairs have been made to the stainless steel counterflashing in the brick walls where the edge of a turned-up leg intersects the flanged flashing installed on the sides of the front parapet walls. Stainless steel flashing is installed above the flanged flashing at the top of the parapet.
4. The sill flashing at the storefront window is sloped toward the window sill and holds water.
5. A patch was observed in the Sarnafil roofing membrane near the handrail.

C. TESTS

WATER TESTING ON DECEMBER 13, 2019

Water testing was performed using an 8-foot long spray rack calibrated to apply water at a minimum rate of 5.0 gallons per square foot per hour.

Water was applied for 4 hours to the vertical joint between the storefront window and the brick wall, including the brick wall and window jamb. No leakage was observed on the ceiling in the Art Room.

II. SECOND FLOOR CLASSROOM 233

A. INTERIOR OBSERVATIONS

Water stains were observed on the ceiling tiles adjacent to the door to the hall below the light monitor wall.

The ceiling tiles were changed on November 27, 2019.

Prior to our visit on December 13, 2019, the ceiling tiles were removed due to water leakage during recent rainstorms. The ceiling tiles were removed by the custodian during water testing.

B. EXTERIOR OBSERVATIONS

1. Areas of failed sealant were observed in the joint between the sill flashing and the storefront sill. No repairs have been made.

Sealant was observed in the joint between the sill flashing and the storefront flashing.

2. The two locations identified as a cut and void have been patched.

3. A small hole was observed in the Sarnafil membrane near the north end of the roof in front of the monitor wall. The hole was marked with pencil and the wall was marked with red crayon.

4. Failed sealant was observed between the sill flashing and brick wall at the top of the Sarnafil membrane at the north end of the monitor window.

On December 13, 2019, the failed sealant was observed to have been removed, and new sealant installed and tooled into place.

5. *Brick had been removed and rebuilt above the south end of the parapet at the front edge of the new end dam for the counterflashing and apron flashing covering the top of the Sarnafil membrane.*

See Photograph 1.

C. TEST

WATER TESTING ON JANUARY 10, 2020

Test 1 Water was applied for 20 minutes from a $\frac{5}{8}$ inch diameter hose to the weep slots in the brick wall above the counterflashing above the south parapet. No dripping was heard above the ceiling in Room 233. No water leakage was observed where the ceiling tiles were removed.

III. ROOM 128

A. INTERIOR OBSERVATIONS

The interior observations have not changed since Report No. 1, dated November 12, 2019.

1. Rust and water stains were observed on the underside of the second floor metal deck.
2. Water damaged Sheetrock was observed at the head of the window opening.
3. Blistered paint was observed on the wall by the door leading to the Art Room.

B. EXTERIOR OBSERVATIONS – GREEN ROOF AND SECOND FLOOR

1. The stainless steel counterflashing in the north-facing wall did not have a turned-up leg where it intersects the flanged flashing installed on the sides of the parapet wall. Brick has been replaced. The front end of the flashing end dam was visible at the edge of the parapet.
2. The stainless steel counterflashing in the base of the suspended brick wall located above the parapet of the green roof is terminated at the face of the brick wall.
3. The brick wall has been opened. Repairs have been made to the stainless steel flashing above the top of the parapet wall.

C. TESTS

WATER TESTING ON DECEMBER 13, 2019

- Test 1 Water was applied for 15 minutes from a $\frac{5}{8}$ inch diameter hose to the weep slots in the brick wall above the counterflashing above the parapet. No water was observed or heard in Room 128.

IV. CORRIDOR EXPANSION JOINT

A. INTERIOR OBSERVATIONS

The ceiling tiles have been removed from the corridor ceiling below the expansion joint where water leakage had occurred during recent rainstorms.

B. EXTERIOR OBSERVATIONS

1. The counterflashing above the roof terminates at the parapet walls and extends behind the vertical metal flashing along the edge of the PVC flashing on the parapet.

Prior to Report No. 5 on December 27, 2019, the brick wall was opened and end dams installed next to the north and south parapets.

2. The counterflashing above the parapets does not terminate at a head joint in the brick course above where an end dam can be installed.

Prior to this date, the brick wall was opened above both parapets, and repairs were made to the counterflashing. See Photograph 2.

C. WATER TESTS – JANUARY 10, 2020

Test 1 Water was applied for 30 minutes from a $5/8$ inch diameter hose to the weep slots in the brick wall above the counterflashing above the south parapet. No dripping was heard. No water was observed on the interior of the corridor. See Photograph 3.

Test 2 Water was applied for 30 minutes from a $5/8$ inch diameter hose to the weep slots in the brick wall above the counterflashing above the north parapet. No dripping was heard. No water was observed on the interior of the corridor.

V. MAIN ENTRY VESTIBULE

A. INTERIOR OBSERVATIONS

The interior observations have not changed since Report No. 1, dated November 12, 2019.

Peeling paint and damaged Sheetrock tape were observed on the ceiling abutting the east wall. Stains were observed on the wall.

On December 13, 2019, we were informed that no water leakage occurred during the recent rainstorms.

B. EXTERIOR OBSERVATIONS

1. A curb/wall is encapsulated in the Sarnafil roofing system, separating the entry canopy roof from the first floor roof.
2. A counterflashing pan and through-wall flashing were installed in the brick wall above the top of the curb wall.
3. The brick walls have been opened. End dams have been installed on the counterflashing on both sides of the curb/wall encapsulated in the Sarnafil roofing system.
4. A counterflashing and through-wall flashing with weep slots have been installed above the encapsulated curb/wall abutting the brick wall.

C. TESTS

WATER TESTING ON NOVEMBER 27, 2019

- | | |
|--------|---|
| Test 1 | Water was applied for 15 minutes from a $\frac{5}{8}$ inch diameter hose to the weep slots to the north of the curb/wall. No water leakage was observed on the interior. |
| Test 2 | Water was applied for 15 minutes from a $\frac{5}{8}$ inch diameter hose to the weep slots to the south of the curb/wall. No water leakage was observed on the interior. |
| Test 3 | Water was applied for 15 minutes from a $\frac{5}{8}$ inch diameter hose to the weep slots above the counterflashing above the end of the curb/wall. No water leakage was observed on the interior. |

VI. STUDIO ROOM 124

A. INTERIOR OBSERVATIONS

We were informed that water leakage has occurred around a square duct that penetrates the roof.

B. EXTERIOR OBSERVATIONS

1. An open seam was observed in the Sarnafil flashing on the curb. On December 13, 2019, a patch was observed in the Sarnafil flashing at the open seam.
2. The fasteners at the hinges for the vent top have been covered with sealant where they are installed through the Sarnafil membrane on the curb.
3. No sealant was observed at the fastener on the wire tie-back installed through the Sarnafil membrane on the curb. On December 13, 2019, sealant was observed to have been installed at the wire tie-backs.
4. Holes were observed in the Sarnafil membrane located behind screw ports in the base flashing for the vent hood. On December 13, 2019, screws were observed to have been installed in all of the ports.
5. No gasket could be felt between the top of the curb and the hinged base of the vent. On December 13, 2019, we were shown photographs of gaskets in the base of the vent at the curb.

VII. CAFETERIA/AUDITORIUM – MECHANICAL ROOM DOOR

On December 13, 2019:

1. We were informed that water leakage occurred during the recent rainstorm.
2. We were informed that water tests performed by the contractor at the south penthouse door south of the cafeteria/auditorium window had allowed water into the building, which dropped onto the roof deck and ran back to the area above the leakage location in the cafeteria/auditorium.

A. *MECHANICAL ROOM – INTERIOR OBSERVATIONS*

1. *Prior to this date, a metal flashing was installed along the back of the threshold. Pourable urethane sealant was installed from the exterior face of the flashing across the threshold between the door jambs. See Photograph 4.*
2. *Expanding foam insulation has been installed in the stud track at each stud.*
3. *Daylight was visible along the edges of the vertical closure joints of the double doors. See Photographs 5, 6, and 7.*

B. *MECHANICAL ROOM DOOR*

WATER TESTS – JANUARY 10, 2020

Water was applied for 5 minutes from a single spray nozzle used in a calibrated spray rack to the double door closure joints. The water collected on the sill in front of the metal flashing. No water entered the building behind the flashing.

VIII. ROOM 211

A. INTERIOR OBSERVATIONS

1. Water stains were observed on the ceiling tiles.
2. Water was observed dripping from the ceiling at around 10:00 AM.
3. Removal of the ceiling tile revealed that the backflow drain for the roof's water spigot was blocked.

B. EXTERIOR OBSERVATIONS

1. Near the leakage area are the following:
 - a. Parapet walls
 - b. Screen fence
 - c. Water spigot
2. The roof area was covered with snow and could not be inspected.

C. WATER TEST

The roof spigot was turned off. The backflow drain overflowed onto the ceiling tiles.

Repairs to the backflow drain were scheduled for December 27, 2019.

IX. MECHANICAL ROOM 166

A. INTERIOR OBSERVATIONS

The exterior observations have not changed since Report No. 2, dated November 21, 2019.

We were informed that water leakage was observed at the ducts penetrating the roof deck.

B. EXTERIOR OBSERVATIONS

1. The rain caps on the ducts have a low slope from the collar at the duct. Sealant was observed at the joint between the collar and the duct.

Inspection of the underside of the caps revealed the following:

- a. Voids were observed in the sealant installed between the Sarnafil membrane and the underside of the caps.
 - b. No sealant was observed between the Sarnafil membrane and the underside of the caps.
2. An opening in a field seam on the side of a round duct was marked with crayon.
 3. At a vent with a hinged top:
 - a. The fasteners at the hinges for the vent top have not been sealed where they penetrate the Sarnafil membrane on the curb. On December 13, 2019, sealant was observed.
 - b. No sealant was observed at the fastener on the wire tie-back installed through the Sarnafil membrane on the curb. On December 13, 2019, sealant was observed to have been installed at the wire tie-backs.
 - c. Holes were observed in the Sarnafil membrane behind the screw ports in the vent hood base flashing. On December 13, 2019, screws were observed to have been installed in all of the ports.
 - d. No gasket could be felt between the top of the curb and the hinged base of the vent. No repairs have been made. On December 13, 2019, we were shown photographs of gaskets in the base of the vent at the curb.

X. BATHROOM AREA NEAR LOADING DOCK

A. INTERIOR OBSERVATIONS

The interior observations have not changed since Report No. 1, dated November 12, 2019.

1. Water stains were observed on the ceiling tiles.
2. Blistered paint was observed on the ceiling by the duct vent.

B. EXTERIOR OBSERVATIONS

1. The pourable sealant has cured. A low area was observed in the pourable sealant around the pipe penetration.
2. At a vent with a hinged top:
 - a. The fasteners at the hinges for the vent top have not been sealed where they penetrate the Sarnafil membrane on the curb. On December 13, 2019, sealant was observed.
 - b. No sealant was observed at the fastener on the wire tie-back installed through the Sarnafil membrane on the curb. On December 13, 2019, sealant was observed to have been installed at the wire tie-backs.
 - c. Holes were observed in the Sarnafil membrane behind the screw ports in the vent hood base flashing. On December 13, 2019, screws were observed to have been installed in all of the ports.
 - d. No gasket could be felt between the top of the curb and the hinged base of the vent. No repairs have been made. On December 13, 2019, we were shown photographs of gaskets in the base of the vent at the curb.
3. Cracks in the clamping ring of the drain were reported to T&L by the Clerk of the Works and were observed on this date.

XI. KITCHEN OFFICE 153**A. INTERIOR OBSERVATIONS**

We were informed that water leakage has occurred at the suspended ceiling, around the fire sprinklers.

On December 13, 2019, ceiling tiles had been removed abutting the CMU wall where water leakage has occurred during recent rainstorms.

B. EXTERIOR OBSERVATIONS

1. Additional pourable sealant has been added to the top of the pourable sealer pocket. An uncured area of sealant was observed between the new and existing pourable sealant. The pourable sealant has cured.
2. Failed sealant was observed at the perimeter sealant of the vent pipe in the brick wall. Sealant has been applied.
3. Bricks were removed and replaced from the corner of the wall. We were shown photographs of the opened wall with an unsealed seam in the metal counterflashing and the installation of self-adhesive flashing at the corner of the wall to cover the seam in the counterflashing.

C. WATER TESTS – DECEMBER 27, 2019

- Test 1 Water was applied for 30 minutes from $\frac{5}{8}$ inch diameter garden hose to the weep slots above the counterflashing at the corner of the penthouse wall. No water leakage was observed in the office.

XII. GYMNASIUM DOOR AND DUCT

OBSERVATIONS

A. DOOR – INTERIOR OBSERVATIONS

1. Daylight was visible at the threshold between the sweep weatherstripping below the double door closure joint.
2. Daylight was visible at the threshold at the corner between the hinge and the door sweep weatherstripping.

B. DUCT

1. Interior Observations

Water was found by the mechanics in the gymnasium on the north wall at the wall panels.

The wall panels were removed and water was observed in a metal duct.

2. Exterior Observations

We were informed that, prior to this date, an opening in a seam in the roof had been repaired and a glycol leak in the mechanical equipment had been repaired. See Photograph 8 of the seam in the roof.

3. Water Tests – January 10, 2020

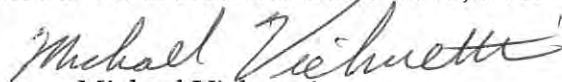
Water was applied for 30 minutes from a single spray nozzle used in a calibrated spray rack to the seams in the TPO roofing in a 5-ft square area at the corner of the roof above the duct in the gym. No dripping was heard. No water was observed on the interior.

See Photograph 9.

We appreciate the opportunity to be of service. If you have any questions or require additional information regarding the observations and test results reported above, please contact the undersigned.

Very truly yours,

THE THOMPSON & LICHTNER COMPANY, INC.



Michael Vielmetti
President

MV/hw

Photographs



Photograph 1

Rebuilt brick above south end of parapet at Second Floor Classroom 233



Photograph 2

Repair area at Corridor Expansion Joint



Photograph 3

Interior view during water testing of Corridor Expansion Joint



Photograph 4

Metal flashing installed along the back of the threshold of the Mechanical Room Doors



Photograph 5

Daylight visible at vertical closure joint of Mechanical Room Door



Photograph 6

Daylight visible at vertical closure joint of Mechanical Room Door



Photograph 7

Daylight visible at vertical closure joint of Mechanical Room Door



Photograph 8

View of seam in roof at Gymnasium and Duct



Photograph 9

Water testing of seams in TPO roofing above the duct in the Gymnasium