



**DOVER SCHOOL
DISTRICT**

JOINT BUILDING COMMITTEE – DOVER HIGH SCHOOL AND REGIONAL CTC MEETING NOTICE

Meeting Type:	Regular Meeting
Meeting Location:	Room 305, McConnell Center, 61 Locust St, Dover, NH
Meeting Date:	Tuesday, August 25, 2020
Meeting Time:	5:00 P.M.

IN RESPONSE TO THE COVID-19 CORONAVIRUS, AND IN ACCORDANCE WITH RECOMMENDATIONS BY STATE AND FEDERAL HEALTH OFFICIALS LIMITING PUBLIC GATHERINGS, THE PUBLIC IS ENCOURAGED TO TEMPORARILY ACCESS PUBLIC MEETINGS REMOTELY, INCLUDING CABLE TELEVISION AND ONLINE STREAMING, AND SUBMIT COMMENTS FOR PUBLIC HEARINGS AND CITIZEN'S FORUM IN WRITING BY EMAIL: r.lafleur@dover.k12.nh.us OR POSTAL MAIL ADDRESSED TO: DHS JBC, 61 LOCUST STREET, SUITE 409, DOVER, NH 03820. THE PUBLIC MAY ALSO SUBMIT COMMENTS BY LEAVING A VOICE MESSAGE AT: 516-MEET (6338). PRECAUTIONS IN PUBLIC MEETING ROOMS WILL INCLUDE LIMITING THE NUMBER OF PEOPLE TO 10, THE USE OF OVERFLOW SPACE IF NECESSARY, AND THE REMOTE PARTICIPATION BY SOME BOARD MEMBERS.

1. Call to order and roll call
2. Citizen's Forum
3. Approval of Meeting Minutes from August 5, 2020
4. Manifest Approval
5. Change Order Approval
6. Wood Floor Finish and Acceptance
7. HMFH Request for 179D Deduction
8. Inspectional Services
 - a. Certificate of Occupancy Status
 - b. Review Fire Alarm Summary Report from RPS
9. List of Work to Complete Items Direct by DHS-Clerk of Works
 - a. Round Pen Update
 - b. Fence at Bellamy Rd, Baseball Field, Top wall near Auto
 - c. Softball Dugouts
 - d. Fume Hood Exhaust Fan Installation for BioMed Classroom
 - e. Other Priority Items JBC
10. Financial Report

11. Matters of Interest

12. Build next agenda and review action items

13. Adjournment

Citizens, residents of the City of Dover, property owners in the City of Dover, and/or designated representatives of recognized civic organizations or businesses located in the City of Dover and/or residents of sending school districts, are invited to all public meetings and shall be given an opportunity to speak. Time shall be set aside for citizen statements, Citizen's Forum, at all public meetings, unless a vote to the contrary is taken by Joint Building Committee.

Citizens shall identify themselves by name and address for the record; address comments to the presiding officer and the Board as a body and not individual members. Citizen's Forum will ensure citizens have the opportunity to speak to all other items on a meeting agenda and/or matters pertaining to the business of the Joint Building Committee. Statements shall be limited to five (5) minutes unless otherwise extended by the JBC chairperson, with the approval of the Joint Building Committee.

All citizens are permitted to place items on the agenda through written application to the Chair of the Joint Building Committee at least one week prior to the meeting date. Citizen items will require a formal motion and a second by seated members to bring the item to the floor for debate.



**DOVER SCHOOL
DISTRICT**

JOINT BUILDING COMMITTEE DOVER HIGH SCHOOL AND REGIONAL CTC MINUTES

Meeting Type:	Regular Meeting
Meeting Location:	Room 305 McConnell Center, Dover, NH
Meeting Date:	August 5, 2020
Meeting Time:	5:00 p.m.

- I. CALL TO ORDER AND ROLL CALL:** A meeting of the Dover High School and Regional Career Technical Center Joint Building Committee was called to order on Wednesday, August 5, 2020 at 5:00 p.m. in Room 305 of the McConnell Center. Present were Bob Carrier, Dennis Shanahan, Matt Severson, Amanda Russell, and Mark Geuther. Sarah Greenshields attended remotely. Also present were Clerk of the Works Stephanie Cartabona (remotely), Business Administrator Mike Limanni, City Attorney Josh Wyatt, and C&W Manager Mike Brooks.
- II. CITIZEN'S FORUM:** No one addressed the JBC.
- III. APPROVE MEETING MINUTES FROM JUNE 10, 2020:** Amanda Russell moved, Matt Severson seconded to approve the minutes as presented. An oral **VOTE PASSED 6/0.**
- IV. APPROVE MANIFESTS:**

Amanda Russell moved, Dennis Shanahan seconded to pay manifest CIPM#DHSCTC321 in the amount of \$7,794.00 (from the Fundraising Trust Fund) to Cengage Learning for subscription renewal of a library database from Gage Resources. Also included in the manifest is \$2,555.89 that will be paid from the general fund. This is the second year of the subscription service and will exhaust the \$16,000 donation made by Measured Progress for this purpose. A roll call **VOTE PASSED 6/0.**

Change orders were discussed and tabled until the next meeting due to their late arrival.
- V. FINANCIAL REPORT:** Financial reports were summarized with more discussion and a full reconciliation at the next meeting.
- VI. MATTERS OF INTEREST:** Mr. Carrier asked about residual money from Garrison School JBC. Mr. Limanni responded that there will be a meeting to close out and a resolution will be created to go to the City Council. The remaining funding will be discussed. Mr. Carrier also asked about the money still allocated for the CTC Round Pen. Mr. Limanni will ask for a recommendation from CTC Director Samantha Tukey regarding the Round Pen.
- VII. BUILD NEXT AGENDA AND REVIEW ACTION ITEMS:** Fire Alarm third party review and change orders associated with it, other change orders, manifests, financial report, and discussion of the disposition of funds allocated for the Round Pen. Mr. Limanni will research what is needed from the JBC to transfer control of the trust to the School District. The next meeting will occur on Wednesday, August 25, 2020 at 5 pm in Room 305 of the McConnell Center.
- VIII. ADJOURNMENT:** Amanda Russell moved, Dennis Shanahan seconded to adjourn the meeting at 5:37 pm. An oral **VOTE PASSED 6/0.**



August 5, 2020

Garret Bertolini
PC Construction
131 Presumpscot Street
Portland, ME 04103

OFFICE. (617) 492 2200
FAX. (617) 876 9775

130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

Re: Change Request Proposal – 190375.1
Shunt trip incomplete work

Dear Garret:

HMFH has reviewed this Change Request Proposal and is recommending to the Owner that it and the associated credit of \$4,409.00 be reviewed by the JBC. Furthermore, it is our understanding that PC Construction is not requesting any time be added to the contract for the work related to this CRP.

At the request of Inspectional Services PCO 190375 was issued to add shunt trips to certain rooms -, stopping all power to equipment so the FA could be heard. I believe that as a result of the 3rd party review much of this work was unnecessary. This credit is for work not done on the original PCO.

In approving this CR, the Owner is not accepting the request for reservation of rights identified in the CR.

Very Truly yours,

HMFH Architects

Alan Pemstein, AIA

encl: CRP 1904375.1, 190375
cc: Stephanie Cartabona, Clerk
Bob Carrier, Chair JBC
Laura Wernick, HMFH

Arthur S. Duffy, AIA
Chin Lin, AIA
Colin R. Dockrill, AIA
Deborah A. Collins, AIA
Devin E. Canton, AIA
Erica Metzger
George R. Metzger, AIA
John F. Miller, FAIA
Julie Nugent, AIA
Laura A. Wernick, FAIA
Lori Cowles, AIA
Margaret M. Munroe
Mario J. Torroella, FAIA
Matthew LaRue, AIA
Melissa A. Greene, AIA
Philip S. Lewis, AIA
Robert P. Williams, AIA
Stephen Friedlaender, FAIA
Tina Stanislawski, AIA
Vassilios Valaes, AIA

M#72673
J#831 044 00.00

DATE: August 5, 2020

MEMO

TO: Alan Pemstein, AIA LEED AP
HMFH Architects, Inc.

FROM: David M. Pereira, P.E.



DEPT: Electrical

PROJECT: Dover High School and Technical Center
Dover, NH

SUBJECT: CR #190375.1 – PR-79 Fire Alarm Additional Scope of Work (Credit)

Please be advised of the following:

We have reviewed the Wayne J. Griffin Electric, Inc. portion of Change Request Proposal No. 190375.1 in the credit amount of (\$3,200.00) for work associated with PR-79 for the Fire Alarm Additional Scope of work. The credit seems to be for partial scope as some of the work associated with it has already been completed, therefore, without knowing the percent of the scope completed, GGD can not provide a review of this credit.

If you have any questions or concerns regarding the above please contact our office at your earliest convenience.

DMP: sms

Enc.

Cc: Robert Williams, AIA LEED AP, HMFH Architects, Inc.
Tina Stanislaski, AIA LEED AP, HMFH Architects, Inc.



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

15027: Dover High School and Career Technical Center

25 Alumni Drive
Dover, NH 03820

Change Request Proposal 190375.1

Title PR-79 Fire Alarm Additionnal Scope of Work (Credit)
Date Issued 08/04/2020
Proposal Status Submitted (Not Proceeding)



Architect

Alan Pemstein
HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

T: 617.844.2140
F: 617.876.9775
E: apemstein@hmfh.com

Owner

Robert Carrier
Dover School District
61 Locust Street 409
Dover, NH 03820-4132

T: 603.516.6800
F: 603.516.6809
E:

Project Cost And Schedule Impacts

This proposal will decrease the value of this contract by \$-4,409.00.

Scope Of Work

The work associated with PR-79 for the Fire Alarm Additional Scope of work was put on hold pending 3rd party review of the fire alarm system. Per RSPA review of the fire alarm system and their 7/21/2020 Field Report. It was determined that Shunt Trips are not required in all of the locations previously noted except for the courtyard electrical outlets PPGB-38 and PPGB-40. Below is a credit for the work associated with PR-79 that has not been completed. Please note the shunt trip relays associated with the courtyard electrical outlets work will be completed under PCI 190432.

Cost Items

Description	Company	Phase	Amount
1.PR-79 Fire Alarm Additional Scope (Credit) - WJGE	Wayne J. Griffin Electric, Inc.	190375	\$ -3,200.00
Construction Supervision Credit- Project Superintendent (1HR at \$93/HR)	PC Construction	190375	\$ -93.00
Fire Stopping Allowance (NEFS) - Credit (NOTE WJG PERformed Firestopping Work)	PC Construction	190375	\$ -500.00
System Testing with IS - 3 Hours (PM/PS)	PC Construction	190375	\$ -558.00
L2 Markup - Insurance (0.75%)		016150	\$ -33.00
L2 Markup - P&P Bond (0.56%)		016200	\$ -25.00
Total			\$-4,409.00

Architect/Engineer Recommendation

I have reviewed this change proposal and agree that it appears to be fair and reasonable and recommend acceptance.

Signature

Date

{{aS_es_signer1_signature}} {{aD_es_signer1_date}}

Name & Title of Authorized Representative

Alan Pemstein

HMFH Architects, Inc.

Owner Approval

By signing below, the Owner authorizes this work to proceed and agrees that PC shall be compensated by the appropriate time and cost. This Change Request Proposal will be included in the next Contract Change Order.

Signature

Date

{{oS_es_signer2_signature}} {{oD_es_signer2_date}}

Name & Title of Authorized Representative

Robert Carrier

Joint Building Committee Chair
Dover School District

This change request proposal includes only the direct costs associated with this work. PC Construction Company reserves the right to later claim schedule adjustment and extension of time, and for all other indirect impact costs caused by or resulting from this change proposal and cumulative effects of other change orders to the work of this contract.



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

August 3, 2020

VIA EMAIL ONLY: gbertolini@pcconstruction.com

Mr. Garret Bertolini, Senior Project Manager
PC Construction Company
25 Alumni Dr.
Dover, NH 03820

RE: Job #2257 - Dover High School, Dover, NH
Proposal #275

Dear Mr. Bertolini:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

- Additional Capacity
- Review the overloaded loops with JCI and determine which loops are now overloaded due to the increasing tap.
- Installation of a new fire alarm cabinet and extend overloaded loops to the cabinet.
- Provide an additional retest of the system with IS.
- Additional Annunciator and mic to the principal's office as requested by the school.
- Provide two ¹~~2~~ additional speaker strobes and relay modules for the receptacle control as requested.
And one (1) Additional Strobe
- Excludes cutting, coring, patching, and painting associated with this change order.

Corporate Headquarters:
116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

MA A8999 NH 4223M VT EM3303 CT ELC.0201601-E1 RI AC004946 ME MC60017598 AL 16318 GA EN213065 NC U.32115

www.waynejgriffinelectric.com

Material	\$	14,118.67	16,918.67
Labor		16,676.69	
Overhead		1,411.87	1,691.87
Subtotal	\$	32,207.23	35,287.23
Bond		177.14	194.08
Total	\$	32,384.37	35,481.31

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

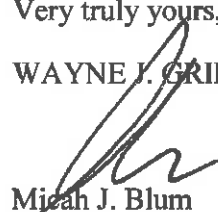
The value included in this proposal does not include any amounts for extended contract duration, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (508) 306-5338 or mblum@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.


Micah J. Blum
Project Manager

MJB/jav

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____
cc: Nick Rouleau, S. Project Engineer, PC Construction Company,
nrouleau@pcconstruction.com
Michael Brennan, Assistant Project Manager, Wayne J. Griffin Electric, Inc.
Mike Lovely, Project Foreman, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8330 FAX (508) 429-9251

CCN#: P-0275, Additional Fire alarm
Date: 7/31/2020
Project Name: Dover High School
Project Number: 02257-00-16
Page Number: 1

Work Description

Additional Capacity

-review the overloaded loops with JCI and determine which loops are now overloaded due to the increasing tap

-Installation of a new fire alarm cabinet and extend overloaded loops to the cabinet

-Provide an additional retest of the system with IS

Additional Annunciator and mic to the principles office as requested by the school .

-Provide (2) additional speaker strobes and relay modules for the receptacle control as requested

- Provide (1) additional strobe and relay modules for the receptacle control as requested

Excludes cutting, coring, patching, and painting associated with with this change order.

Itemized Breakdown

Description	Qty	Net Price	U/M	Materials (\$)	Labor	Total Hours
ADDED ANNUNCIATOR						
LOT FIRE ALARM QUOTE	1.00	4,857.0000		4,857.000	0.000	0.000
TESTING	1.00	0.0000		0.000	6.000	6.000
1 1/2" FA MC	750.00	1.0102		757.650	0.000	0.000
LABOR	1.00	0.0000		0.000	32.000	32.000
FIRE STOPPING	1.00	150.0000		150.000	0.000	0.000
3/4" EMT CONDUIT	20.00	2.9000	FT	58.000	0.000	0.000
3/4" EMT STEEL SET SCREW CONNECTOR	4.00	0.7725	EA	3.080	0.000	0.000
3/4" X CLOSE RIGID NIPPLE	4.00	2.6100	EA	10.440	0.000	0.000
4" SQ. BOX 2-1/8" DEEP 1/2" & 3/4" KO	2.00	9.3950	EA	18.790	0.000	0.000
4" SQ. COVER FLAT BLANK	2.00	4.4650	EA	8.930	0.000	0.000
3/8" STRAIGHT MC/BX CONNECTOR (2-SCREW)	8.00	1.7275	EA	13.820	0.000	0.000
Phase Totals				5,877.72		38.00
ADDITIONAL CAPACITY						
MISC FITTING	1.00	80.0000		80.000	0.000	0.000
LOT FIRE ALARM QUOTE	1.00	4,857.0000		4,857.000	0.000	0.000
FIRE ALARM INSTALL	1.00	0.0000		0.000	24.000	24.000
PREVIOUS TESTING COMPLETED	1.00	0.0000		0.000	32.000	32.000
REVIEW FOR FA MOD	1.00	0.0000		0.000	8.000	8.000
CHANGING TAP	1.00	0.0000		0.000	4.000	4.000
TESTING	1.00	0.0000		0.000	6.000	6.000
CTE FA SCOPE	-1.00	3,200.0000		-3,200.000	0.000	0.000
1" EMT CONDUIT	50.00	4.9700	FT	248.500	0.000	0.000
#14 THHN-CU-STRANDED-BLACK-500FT COIL	1,500.00	0.1675	FT	251.250	0.000	0.000
#12 THHN-CU-STRANDED-BLACK-500FT COIL	250.00	0.2475	FT	61.880	0.000	0.000
Phase Totals				5,498.63	-2,298.00	74.00

Credit to be Provided with Shunt Trip Credit - 190375.1
All other costs noted are per PCI 190432



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0275, Additional Fire alarm
Date: 7/31/2020
Project Name: Dover High School
Project Number: 02257-00-16
Page Number: 2

ADDITIONAL CIRCUIT CONTROL AND SPKR/STROBES

LIFT RENTAL	Utilize School Scissor Lift	1.00	500.0000	500.000	0.000	0.000
SPEAKER STROBES	Utilize Devices from School Attic Stock	2.00	0.0000	0.000	0.000	0.000
LOT FIRE ALARM		1.00	658.0000	658.000	0.000	0.000
OVERTIME ACCELERATION		1.00	1,920.0000	1,920.000	0.000	0.000
TESTING		1.00	0.0000	0.000	0.000	0.000
PLAN REVIEW		1.00	788.0000	788.000	0.000	0.000
LOT LABOR		1.00	0.0000	0.000	60.000	60.000
3/4" EMT CONDUIT		300.00	2.9000 FT	870.000	0.000	0.000
3/4" EMT STEEL SET SCREW COUPLING		30.00	2.8800 EA	86.400	0.000	0.000
3/4" EMT STEEL SET SCREW CONNECTOR		16.00	0.7731 EA	12.370	0.000	0.000
1/2" FLEX CONDUIT		40.00	0.7330 FT	29.320	0.000	0.000
14/2 MC CABLE - 1000FT REEL		500.00	1.0102 FT	505.100	0.000	0.000
14/2 FIRE ALARM CABLE		750.00	0.5101 FT	382.580	0.000	0.000
4" SQ. BOX 2-1/8" DEEP 1/2" & 3/4" KO		10.00	9.3970 EA	93.970	0.000	0.000
4" SQ. COVER FLAT BLANK		8.00	5.4825 EA	43.700	0.000	0.000
SG WP BOX 2 5/8IN DEEP WITH 3-3/4IN HUBS		2.00	36.4400 EA	72.880	0.000	0.000
Phase Totals				5,442.32	5,442.32	60.00
		Totals		16,918.67	14,118.67	172.00
		Tax			0.00	
		Materials with		16,918.67	14,118.67	

Summary

		Itemized Breakdown Total	16,918.67	14,118.67
Elect. Journeyman	(86.0000 hrs @ \$77.95 / hr)	6,703.70		
Elect. Journeyman Overtime	(86.0000 hrs @ \$106.15 / hr)	9,128.90		
			15,832.60	
Material Markup	16,918.67 (\$14,118.67 @ 10.00%)	1,691.87	1,411.87	
Foreman	(8.60 hrs @ \$98.15 / hr)	844.09		
		\$35,287.33	2,535.96	2,255.96
Bond	(\$32,207.23 @ 0.55%)	194.08	177.14	
		194.08	177.14	
			2,730.04	2,433.10
Total			35,481.31	33,284.87



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

15027: Dover High School and Career Technical Center

25 Alumni Drive
Dover, NH 03820

RECEIVED

June 4, 2019

Garcia Galuska & DeSousa

Change Request Proposal 190375

Title **PR-79 Fire Alarm Additional Scope**
Date Issued **04-JUN-19**
Proposal Status **Submitted (Not Proceeding)**

Architect

Alan Pemstein
HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

T: 617.844.2140
F: 617.876.9775
E: apemstein@hmfh.com

Owner

Robert Carrier
Dover School District
61 Locust Street 409
Dover, NH 03820-4132

T: 603.516.6800
F: 603.516.6809
E:

Project Cost And Schedule Impacts

This proposal will increase the value of this contract by \$26,675.00.

Scope Of Work

Proposal per PR-79 to add the following:

- Courtyard: install fire alarm control relays at outlets PPGB-38, 40
- Auto Tech 138A: install fire alarm control module in sub panel PL138A
- Auto Collision 137A: install fire alarm control module in sub panel PL137A
- Welding Lab 135A: install fire alarm control module in sub panel PC135A
- Wood Working Lab 125C: install fire alarm control module in sub panel PL125C
- Building Construction 126C: install fire alarm control module in sub panel PL126C
- Salon 106A & 106B: install fire alarm control module in sub panel PL106B
- Band 014 and Music CR013: install new speaker/strobe 6" above marker board at front of each room

Proposal includes allowance for firestopping at band/music rooms. Proposal includes time for system testing with Inspectional Services with PC project manager and project superintendent in the field. Proposal is based on normal working hours during summer break.

Cost Items

Description	Company	Phase	Amount
1. PR-79 Fire Alarm Additional Scope - WJG	Griffin, Wayne J. Electric, Inc.	190375	\$ 23,342.00
2. Construction Supervision - Project Superintendent	PC Construction	190375	\$ 186.00
3. Firestopping Allowance (NEFS)	PC Construction	190375	\$ 500.00
4. System Testing with IS - 3 hours (PM, PS)	PC Construction	190375	\$ 558.00
5. PC Administration (5%)	PC Construction	190375	\$ 1,229.00
L1 Markup - Overhead & Profit (2%)		900000	\$ 516.00
L2 Markup - Insurance (0.75%)		016150	\$ 197.00
L2 Markup - P&P Bond (0.56%)		016200	\$ 147.00
Total			\$26,675.00

Architect/Engineer Recommendation

I have reviewed this change proposal and agree that it appears to be fair and reasonable and recommend acceptance.


Signature

6-28-19
Date

Name & Title of Authorized Representative

Owner Approval

By signing below, the Owner authorizes this work to proceed and agrees that PC shall be compensated by the appropriate time and cost. This Change Request Proposal will be included in the next Contract Change Order.


Signature

6/25/19
Date

Name & Title of Authorized Representative



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

**15027: Dover High School and Career
Technical Center**
25 Alumni Drive
Dover, NH 03820

Change Request Proposal 190375

Title **PR-79 Fire Alarm Additional Scope**
Date Issued **04-JUN-19**
Proposal Status **Submitted (Not Proceeding)**

Architect

Alan Pemstein
HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

T: 617.844.2140
F: 617.876.9775
E: apemstein@hmfh.com

Owner

Robert Carrier
Dover School District
61 Locust Street 409
Dover, NH 03820-4132

T: 603.516.6800
F: 603.516.6809
E:

Project Cost And Schedule Impacts

This proposal will increase the value of this contract by \$26,675.00.

Scope Of Work

Proposal per PR-79 to add the following:

- Courtyard: install fire alarm control relays at outlets PPGB-38, 40
- Auto Tech 138A: install fire alarm control module in sub panel PL138A
- Auto Collision 137A: install fire alarm control module in sub panel PL137A
- Welding Lab 135A: install fire alarm control module in sub panel PC135A
- Wood Working Lab 125C: install fire alarm control module in sub panel PL125C
- Building Construction 126C: install fire alarm control module in sub panel PL126C
- Salon 106A & 106B: install fire alarm control module in sub panel PL106B
- Band 014 and Music CR013: install new speaker/strobe 6" above marker board at front of each room

Proposal includes allowance for firestopping at band/music rooms. Proposal includes time for system testing with Inspectional Services with PC project manager and project superintendent in the field. Proposal is based on normal working hours during summer break.

Cost Items

Description	Company	Phase	Amount
1. PR-79 Fire Alarm Additional Scope - WJG	Griffin, Wayne J. Electric, Inc.	190375	\$ 23,342.00
2. Construction Supervision - Project Superintendent	PC Construction	190375	\$ 186.00
3. Firestopping Allowance (NEFS)	PC Construction	190375	\$ 500.00
4. System Testing with IS - 3 hours (PM, PS)	PC Construction	190375	\$ 558.00
5. PC Administration (5%)	PC Construction	190375	\$ 1,229.00
L1 Markup - Overhead & Profit (2%)		900000	\$ 516.00
L2 Markup - Insurance (0.75%)		016150	\$ 197.00
L2 Markup - P&P Bond (0.56%)		016200	\$ 147.00
Total			\$26,675.00

Architect/Engineer Recommendation

I have reviewed this change proposal and agree that it appears to be fair and reasonable and recommend acceptance.

Signature

Date

Name & Title of Authorized Representative

Owner Approval

By signing below, the Owner authorizes this work to proceed and agrees that PC shall be compensated by the appropriate time and cost. This Change Request Proposal will be included in the next Contract Change Order.

Signature

Date

Name & Title of Authorized Representative

Alan Pemstein
HMFH Architects, Inc.

Robert Carrier
Joint Building Committee Chair
Dover School District

This change request proposal includes only the direct costs associated with this work. PC Construction Company reserves the right to later claim schedule adjustment and extension of time, and for all other indirect impact costs caused by or resulting from this change proposal and cumulative effects of other change orders to the work of this contract.



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

May 22, 2019

VIA EMAIL ONLY: gbertolini@pcconstruction.com

Mr. Garret Bertolini, Senior Project Manager
PC Construction Company
25 Alumni Dr.
Dover, NH 03820

RE: Job #2257 - Dover High School, Dover, NH
Proposal #229

Dear Mr. Bertolini:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

Furnish the labor and materials for the added Fire Alarm scope as shown in the attached PR-079 as issued by PC Construction Company.

- Work to be completed during normal working hours
- Access to all rooms to be provided by PC
- Fire Alarm to shunt the main breaker on each panel for the area.
- Any additional inspection fees are excluded
- Furniture to be moved by others
- Millwork cutting to be by others

Excluded is all cutting, coring, patching, painting and overtime associated with this change in electrical scope.

Material	\$	9,069.83
Labor		13,237.51
Overhead		906.98
Subtotal	\$	23,214.32
Bond		127.68
Total	\$	23,342.00

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

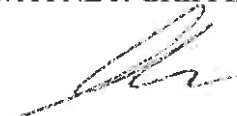
The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (508) 306-5338, or mblum@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Micah J. Blum
Project Manager

MJB/kam

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Ellen Brooks, Project Engineer, PC Construction Company, ebrooks@pccconstruction.com
Michael Brennan, Assistant Project Manager, Wayne J. Griffin Electric, Inc.
Mike Lovely, Project Foreman, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0229, PR-079
Date: 5/21/2019
Project Name: Dover High School
Project Number: 02257-00-16
Page Number: 1

Work Description

Furnish the labor and materials for the added fire alarm scope as shown in the attached PR-079 as issued by PC Construction

-Work to be completed during normal working hours

-Access to all rooms to be provided by PC

-Fire alarm to shunt the main breaker on each panel for the area.

-Any additional inspection fees are excluded

-Furniture to be moved by others

-Millwork cutting to be by others

Excluded is all cutting, coring, patching, painting and overtime associated with this change in electrical scope.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
16/2 FIRE ALARM MC	1,500.00	0.9100		1,365.000	0.025	37.500
FIRESTOPPING	1.00	150.0000		150.000	8.000	8.000
SPEAKER STROBE	2.00	0.0000		0.000	0.750	1.500
PAM REALY	8.00	0.0000		0.000	0.750	6.000
FIRE ALARM START UP/TEST	1.00	0.0000		0.000	16.000	16.000
SIZE 1 2P MAG STARTER	1.00	240.5800		240.580	1.500	1.500
LOT FIRE ALARM QUOTE	1.00	4,000.0000		4,000.000	0.000	0.000
3/4" EMT CONDUIT	150.00	2.9000	FT	435.000	0.050	7.500
1" EMT CONDUIT	20.00	4.5400	FT	90.800	0.055	1.100
3/4" EMT STEEL SET SCREW COUPLING	20.00	2.8235	EA	56.470	0.050	1.000
3/4" EMT STEEL SET SCREW CONNECTOR	20.00	0.7435	EA	14.870	0.100	2.000
1/2" FLEX CONDUIT	25.00	0.7328	FT	18.320	0.040	1.000
1/2" FLEX STEEL STRAIGHT CONNECTOR	18.00	1.3744	EA	24.740	0.120	2.160
#12 THHN-CU-STRANDED-BLACK-500FT COIL	1,500.00	0.2722	FT	408.300	0.008	9.000
14/2 MC CABLE - 1000FT REEL	500.00	1.0102	FT	505.100	0.025	12.500
12/2 MC CABLE - 1000FT REEL	500.00	1.0186	FT	509.300	0.030	15.000
16/2 FIRE ALARM CABLE	150.00	0.4050	FT	60.750	0.016	2.400
20A COMMERCIAL GRADE DUPLEX RECEPTACLE - IVORY	40.00	8.5800	EA	343.200	0.200	8.000
1 GANG DUPLEX STAINLESS STEEL PLATE TYPE 302	10.00	2.7000	EA	27.000	0.100	1.000
4" SQ. BOX 2-1/8" DEEP 1/2" & 3/4" KO	50.00	9.3970	EA	469.850	0.300	15.000
4" SQ. RING 1-1/2" RAISED 1 DEV	2.00	2.2050	EA	4.410	0.150	0.300
4" SQ. COVER 1/2" RAISED 1 DUPLEX	50.00	5.3534	EA	267.670	0.200	10.000
3/4" EMT ONE HOLE STRAP	10.00	0.9900	EA	9.900	0.040	0.400
3/4" RIGID STRUT CLAMP (702 SERIES)	30.00	2.2857	EA	68.570	0.030	0.900
Totals				9,069.83		159.76
Tax				0.00		
Materials with				9,069.83		

Summary

	Itemized Breakdown Total	9,069.83
Elect. Journeyman	(159.7600 hrs @ \$77.95 / hr)	12,453.29
		12,453.29



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0228, PR-079
Date: 5/21/2019
Project Name: Dover High School
Project Number: 02257-00-16
Page Number: 2

Material Markup	(\$9,069.83 @ 10.00%)	906.98	
Foreman	(7.99 hrs @ \$98.15 / hr)	<u>784.22</u>	
		1,691.20	
Bond	(\$23,214.32 @ 0.55%)	<u>127.68</u>	
		127.68	
			<u>1,818.88</u>
Total			\$23,342.00



PROPOSAL REQUEST

PR: 79

date: 5.10.2019

subject: Fire Alarm Changes per Inspectional Services

to: Scott Blair
PC Construction

from: Alan Pemstein

project id: 403114

project: Dover High School/ Career Technical Center
25 Alumni Drive Dover, NH

distribution:

☒ City of Dover	☒ PC Construction
☐ HMFH Architects	☐ FBRA Inc.
☐ Nobis Engineering, INC.	☐ GGD Consulting Engineers, Inc.
☒ Mike Brooks, Clerk	☐ Halvorson Design
☐ Horizon Engineering Associates	

OFFICE: (617) 492 2200
FAX: (617) 876 9775

130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

reference:

attachments:

Please submit an itemized proposal for changes in Contract Sum and Contract Time for proposed modifications to the Contract Documents described herein. This is not a Change Order, a Construction Change Directive or a direction to proceed with the work described in the proposed modifications.

Provide the cost for the following additions to the Fire Alarm System as requested by Inspectional Services.

Please refer to the attached memo.

M#66606
J#831 044 00.00

DATE: May 10, 2019

MEMO

TO: Alan Pemstein, AIA LEED AP
HMFH Architects, Inc.

FROM: David M. Pereira, P.E.



PROJECT: Dover High School and Technical Center
Dover, NH

SUBJECT: ASI - Fire Alarm Changes per Inspection Services

Please be advised of the following:

Per the April 29, 2019 meeting and fire alarm test with Dover Inspectional Services (ISD) the following changes have been requested:

Comment:

1. Courtyard – ISD request was if there would be outlets that a sound system could be plugged into that the outlet be shunted to mute any mobile plug in sound system.

Action:

Electrical Contractor shall provide fire alarm control relays with 120V contacts that are normally closed and open upon fire alarm in series with the following circuits PPGB-38, 40, signage shall be added at other receptacles that states "DO NOT PLUG IN AUDIO EQUIPMENT".

Comment:

2. Auto Tech – ISD requested to shunt Auto Tech 138A sub-panel "PL138A" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL138A."

M#66606
J#831 044 00.00
Page 2

Comment:

3. Auto Collision – ISD requested to shunt Auto Collision 137A sub-panel "PL137A" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL137A.

Comment:

4. Welding Lab – ISD requested to shunt Welding Lab 135A sub-panel "PL135A" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL135A.

Comment:

5. Wood Working Lab – ISD requested to shunt Wood Working Lab 125C sub-panel "PL125C" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL125C.

Comment:

6. Building Construction – ISD requested to shunt Building Construction 126C sub-panel "PL126C" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL126C.

GARCIA • GALUSKA • DESOUSA

Consulting Engineers

Inc.

M#66606

J#831 044 00.00

Page 3

Comment:

7. Verify that power to paint booth is fed from "PL137A".

Response:

Confirmed "PL137A" feeds paint booth and will shut down when "PL137A" main breaker is shunted during fire alarm.

Comment:

8. Lab 1 106B and Lab 2 106A – ISD requests to shunt sub-panel "PL106B" to eliminate sound from hair dryers that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA-72 spacing.

Action:

Electrical contractor shall provide fire alarm control module to shunt trip the main breaker of panel "PL106B".

Comment:

9. Band 014 and Music CR013, ISD requested an additional notification appliance for when instruments are being played. There is currently a visual notification in each room that meets NFPA-72 spacing however it was the ISDs feeling that it was not as visible as they would like and that an additional appliance at the front of the room wall mounted above marker board would improve the visibility of the visual portion of the notification appliance in the case that instruments were being played.

Action:

Electrical Contractor shall install new speaker/strobe 6" above marker board at the front of each room Band 104 and Music CR 013. Speaker shall be set to 2 watts and strobe to 75 cd.

If you have any questions or concerns regarding the above, please contact our office at your **earliest** convenience.

DMP:jfm

Cc: Robert Williams, AIA LEED AP, HMFH Architects, Inc
Tina Stanislaski, AIA LEED AP, HMFH Architects, Inc
Laura Wernick, FAIA, REFP, LEED AP, HMFH Architects, Inc.



June 14, 2019

Garret Bertolini
PC Construction
131 Presumpscot Street
Portland, ME 04103

OFFICE. (617) 492 2200
FAX. (617) 876 9775

130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

Re: Change Request Proposal – 190375
Additional IS Fire Alarm Requirements

Dear Garret:

HMFH has reviewed this Proposed Change Order and is recommending to the Owner that it and the associated cost of \$26,675.00 be reviewed by the JBC prior to approval. Furthermore, it is our understanding that PC Construction is not requesting any time be added to the contract for the work related to this CR or any other costs for this work.

This is additional work required by IS so the Fire Alarm can be heard. This work will shut down equipment in these spaces or add additional horn strobes so the fire alarm can be heard.

Besides the 2% allowed by contract, PC is charging an addition 7% for administration of this CRP.

In approving this CR, the Owner is not accepting the request for reservation of rights identified in the CR.

Very Truly yours,

HMFH Architects

Alan Pemstein, AIA, LEED AP

encl: CRP 190375, GGD Review

cc: Libby Simmons, Dover School District
Bob Carrier, Chair JBC
Laura Wernick, HMFH
Stephanie Parsons, Clerk

Arthur S. Duffy, AIA
Chin Lin, AIA
Colin R. Dockrill, AIA
Deborah A. Collins, AIA
Devin E. Canton, AIA
Erica Metzger
George R. Metzger, AIA
John F. Miller, FAIA
Julia Nugent, AIA
Laura A. Wernick, FAIA
Lori Cowles, AIA
Margaret M. Munroe
Mario J. Torroella, FAIA
Matthew LaRue, AIA
Melissa A. Greene, AIA
Philip S. Lewis, AIA
Robert P. Williams, AIA
Stephen Friedlaender, FAIA
Tina Stanislawski, AIA
Vassilios Veias, AIA

M#67069
J#831 044 00.00

DATE: June 11, 2019

MEMO

TO: Alan Pemstein, AIA LEED AP
HMFH Architects, Inc.

FROM: David M. Pereira, P.E.



DEPT: Electrical

PROJECT: Dover High School and Technical Center
Dover, NH

SUBJECT: CR #190375 – PR-79 Fire Alarm Additional Scope

Please be advised of the following:

We have reviewed the Wayne J. Griffin Electric, Inc. portion of Change Request Proposal No. 190375 in the amount of \$23,342.00 for costs associated with Fire alarm changes per Inspectional Services. We find the amount to be fair and reasonable and recommend approval.

If you have any questions or concerns regarding the above please contact our office at your earliest convenience.

DMP:jfm

Enc.

Cc: Robert Williams, AIA LEED AP, HMFH Architects, Inc.
Tina Stanislaski, AIA LEED AP, HMFH Architects, Inc.

GARCIA • GALUSKA • DESOUSA

Consulting Engineers

Inc.

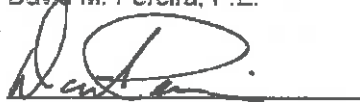
M#67069
J#831 044 00.00

DATE: June 11, 2019

MEMO

TO: Alan Pernstein, AIA LEED AP
HMFH Architects, Inc.

FROM: David M. Pereira, P.E.



DEPT: Electrical

PROJECT: Dover High School and Technical Center
Dover, NH

SUBJECT: CR #190375 – PR-79 Fire Alarm Additional Scope

Please be advised of the following:

We have reviewed the Wayne J. Griffin Electric, Inc. portion of Change Request Proposal No. 190375 in the amount of \$23,342.00 for costs associated with Fire Alarm changes per Inspectional Services. We find the amount to be fair and reasonable and recommend approval.

If you have any questions or concerns regarding the above please contact our office at your earliest convenience.

DMP:jfm

Enc.

Cc: Robert Williams, AIA LEED AP, HMFH Architects, Inc.
Tina Stanislaski, AIA LEED AP, HMFH Architects, Inc.



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

15027: Dover High School and Career Technical Center

25 Alumni Drive
Dover, NH 03820

RECEIVED

June 4, 2019

Garcia Galuska & DeSousa

Change Request Proposal 190375

Title **PR-79 Fire Alarm Additional Scope**
Date Issued **04-JUN-19**
Proposal Status **Submitted (Not Proceeding)**

Architect

Alan Pemstein
HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

T: 617.844.2140
F: 617.876.9775
E: apemstein@hmfh.com

Owner

Robert Carrier
Dover School District
61 Locust Street 409
Dover, NH 03820-4132

T: 603.516.6800
F: 603.516.6809
E:

Project Cost And Schedule Impacts

This proposal will increase the value of this contract by \$26,675.00.

Scope Of Work

Proposal per PR-79 to add the following:

- Courtyard: install fire alarm control relays at outlets PPGB-38, 40
- Auto Tech 138A: install fire alarm control module in sub panel PL138A
- Auto Collision 137A: install fire alarm control module in sub panel PL137A
- Welding Lab 135A: install fire alarm control module in sub panel PC135A
- Wood Working Lab 125C: install fire alarm control module in sub panel PL125C
- Building Construction 126C: install fire alarm control module in sub panel PL126C
- Salon 106A & 106B: install fire alarm control module in sub panel PL106B
- Band 014 and Music CR013: install new speaker/strobe 6" above marker board at front of each room

Proposal includes allowance for firestopping at band/music rooms. Proposal includes time for system testing with Inspectional Services with PC project manager and project superintendent in the field. Proposal is based on normal working hours during summer break.

Cost Items

Description	Company	Phase	Amount
1. PR-79 Fire Alarm Additional Scope - WJG	Griffin, Wayne J. Electric, Inc.	190375	\$ 23,342.00
2. Construction Supervision - Project Superintendent	PC Construction	190375	\$ 186.00
3. Firestopping Allowance (NEFS)	PC Construction	190375	\$ 500.00
4. System Testing with IS - 3 hours (PM, PS)	PC Construction	190375	\$ 558.00
5. PC Administration (5%)	PC Construction	190375	\$ 1,229.00
L1 Markup - Overhead & Profit (2%)		900000	\$ 516.00
L2 Markup - Insurance (0.75%)		016150	\$ 197.00
L2 Markup - P&P Bond (0.56%)		016200	\$ 147.00
Total			\$26,675.00

Architect/Engineer Recommendation

I have reviewed this change proposal and agree that it appears to be fair and reasonable and recommend acceptance.

Signature

Date

Name & Title of Authorized Representative

Owner Approval

By signing below, the Owner authorizes this work to proceed and agrees that PC shall be compensated by the appropriate time and cost. This Change Request Proposal will be included in the next Contract Change Order.

Signature

Date

Name & Title of Authorized Representative

Alan Pemstein
HMFH Architects, Inc.

Robert Carrier
Joint Building Committee Chair
Dover School District

This change request proposal includes only the direct costs associated with this work. PC Construction Company reserves the right to later claim schedule adjustment and extension of time, and for all other indirect impact costs caused by or resulting from this change proposal and cumulative effects of other change orders to the work of this contract.



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

May 22, 2019

VIA EMAIL ONLY: gbertolini@pcconstruction.com

Mr. Garret Bertolini, Senior Project Manager
PC Construction Company
25 Alumni Dr.
Dover, NH 03820

RE: Job #2257 - Dover High School, Dover, NH
Proposal #229

Dear Mr. Bertolini:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

Furnish the labor and materials for the added Fire Alarm scope as shown in the attached PR-079 as issued by PC Construction Company.

- Work to be completed during normal working hours
- Access to all rooms to be provided by PC
- Fire Alarm to shunt the main breaker on each panel for the area.
- Any additional inspection fees are excluded
- Furniture to be moved by others
- Millwork cutting to be by others

Excluded is all cutting, coring, patching, painting and overtime associated with this change in electrical scope.

Material	\$	9,069.83
Labor		13,237.51
Overhead		906.98
Subtotal	\$	23,214.32
Bond		127.68
Total	\$	23,342.00

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273

Phone: (704) 522-3851
Fax: (704) 522-3856

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (508) 306-5338, or mblum@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Micah J. Blum
Project Manager

MJB/kam

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Ellen Brooks, Project Engineer, PC Construction Company, ebrooks@pcconstruction.com
Michael Brennan, Assistant Project Manager, Wayne J. Griffin Electric, Inc.
Mike Lovely, Project Foreman, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0229, PR-079
Date: 5/21/2019
Project Name: Dover High School
Project Number: 02257-00-16
Page Number: 1

Work Description

Furnish the labor and materials for the added fire alarm scope as shown in the attached PR-079 as issued by PC Construction

- Work to be completed during normal working hours
- Access to all rooms to be provided by PC
- Fire alarm to shunt the main breaker on each panel for the area.
- Any additional inspection fees are excluded
- Furniture to be moved by others
- Millwork cutting to be by others

Excluded is all cutting, coring, patching, painting and overtime associated with this change in electrical scope.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
16/2 FIRE ALARM MC	1,500.00	0.9100		1,365.000	0.025	37.500
FIRESTOPPING	1.00	150.0000		150.000	8.000	8.000
SPEAKER STROBE	2.00	0.0000		0.000	0.750	1.500
PAM REALY	8.00	0.0000		0.000	0.750	6.000
FIRE ALARM START UP/TEST	1.00	0.0000		0.000	16.000	16.000
SIZE 1 2P MAG STARTER	1.00	240.5800		240.580	1.500	1.500
LOT FIRE ALARM QUOTE	1.00	4,000.0000		4,000.000	0.000	0.000
3/4" EMT CONDUIT	150.00	2.9000	FT	435.000	0.050	7.500
1" EMT CONDUIT	20.00	4.5400	FT	90.800	0.065	1.100
3/4" EMT STEEL SET SCREW COUPLING	20.00	2.8235	EA	56.470	0.050	1.000
3/4" EMT STEEL SET SCREW CONNECTOR	20.00	0.7435	EA	14.870	0.100	2.000
1/2" FLEX CONDUIT	25.00	0.7328	FT	18.320	0.040	1.000
1/2" FLEX STEEL STRAIGHT CONNECTOR	18.00	1.3744	EA	24.740	0.120	2.160
#12 THHN-CU-STRANDED-BLACK-500FT COIL	1,500.00	0.2722	FT	408.300	0.006	9.000
14/2 MC CABLE - 1000FT REEL	500.00	1.0102	FT	505.100	0.025	12.500
12/2 MC CABLE - 1000FT REEL	500.00	1.0186	FT	509.300	0.030	15.000
16/2 FIRE ALARM CABLE	150.00	0.4050	FT	60.750	0.016	2.400
20A COMMERCIAL GRADE DUPLEX RECEPTACLE - IVORY	40.00	8.5800	EA	343.200	0.200	8.000
1 GANG DUPLEX STAINLESS STEEL PLATE TYPE 302	10.00	2.7000	EA	27.000	0.100	1.000
4" SQ. BOX 2-1/8" DEEP 1/2" & 3/4" KO	50.00	9.3970	EA	469.850	0.300	15.000
4" SQ. RING 1-1/2" RAISED 1 DEV	2.00	2.2050	EA	4.410	0.150	0.300
4" SQ. COVER 1/2" RAISED 1 DUPLEX	50.00	5.3534	EA	267.670	0.200	10.000
3/4" EMT ONE HOLE STRAP	10.00	0.9900	EA	9.900	0.040	0.400
3/4" RIGID STRUT CLAMP (702 SERIES)	30.00	2.2857	EA	68.570	0.030	0.900
Totals				9,069.83		169.76
Tax				0.00		
Materials with				9,069.83		

Summary

	Itemized Breakdown Total	9,069.83
Elect. Journeyman	(159,7600 hrs @ \$77.95 / hr)	12,453.29
		12,453.29



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0229, PR-079
Date: 5/21/2019
Project Name: Dover High School
Project Number: 02257-00-16
Page Number: 2

Material Markup	(\$9,069.83 @ 10.00%)	906.98	
Foreman	(7.99 hrs @ \$98.15 / hr)	784.22	
		<u>1,691.20</u>	
Bond	(\$23,214.32 @ 0.55%)	127.68	
		<u>127.68</u>	
			<u>1,818.88</u>
Total			<u>\$23,342.00</u>



PROPOSAL REQUEST

PR: 79

date: 5.10.2019

subject: Fire Alarm Changes per Inspectional Services

to: Scott Blair
PC Construction

from: Alan Pemstein

project id: 403114

project: Dover High School/ Career Technical Center
25 Alumni Drive Dover, NH

distribution:

☒ City of Dover	☒ PC Construction
☐ HMFH Architects	☐ FBRA Inc.
☐ Nobis Engineering, INC.	☐ GGD Consulting Engineers, Inc.
☒ Mike Brooks, Clerk	☐ Halvorson Design
☐ Horizon Engineering Associates	

OFFICE: (617) 492 2260
FAX: (617) 876 5775

130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

reference:

attachments:

Please submit an itemized proposal for changes in Contract Sum and Contract Time for proposed modifications to the Contract Documents described herein. This is not a Change Order, a Construction Change Directive or a direction to proceed with the work described in the proposed modifications.

Provide the cost for the following additions to the Fire Alarm System as requested by Inspectional Services.
Please refer to the attached memo.

M#66606
J#831 044 00.00

DATE: May 10, 2019

MEMO

TO: Alan Pemstein, AIA LEED AP
HMFH Architects, Inc.

FROM: David M. Pereira, P.E.



PROJECT: Dover High School and Technical Center
Dover, NH

SUBJECT: ASI - Fire Alarm Changes per Inspection Services

Please be advised of the following:

Per the April 29, 2019 meeting and fire alarm test with Dover Inspectional Services (ISD) the following changes have been requested:

Comment:

1. Courtyard – ISD request was if there would be outlets that a sound system could be plugged into that the outlet be shunted to mute any mobile plug in sound system.

Action:

Electrical Contractor shall provide fire alarm control relays with 120V contacts that are normally closed and open upon fire alarm in series with the following circuits PPGB-38, 40, signage shall be added at other receptacles that states "DO NOT PLUG IN AUDIO EQUIPMENT".

Comment:

2. Auto Tech – ISD requested to shunt Auto Tech 138A sub-panel "PL138A" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL138A".

M#66606

J#831 044 00.00

Page 2

Comment:

3. Auto Collision – ISD requested to shunt Auto Collision 137A sub-panel "PL137A" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL137A.

Comment:

4. Welding Lab – ISD requested to shunt Welding Lab 135A sub-panel "PL135A" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL135A.

Comment:

5. Wood Working Lab – ISD requested to shunt Wood Working Lab 125C sub-panel "PL125C" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL125C.

Comment:

6. Building Construction – ISD requested to shunt Building Construction 126C sub-panel "PL126C" to eliminate sound from equipment that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA 72 spacing. GGD recommends that the Owner confirm that shunting power to this equipment on a fire alarm does not create an unsafe condition prior to work being done.

Action:

Electrical Contractor shall provide a fire alarm control module to shunt trip the main breaker of panel "PL126C.

M#66606
J#831 044 00.00
Page 3

Comment:

7. Verify that power to paint booth is fed from "PL137A".

Response:

Confirmed "PL137A" feeds paint booth and will shut down when "PL137A" main breaker is shunted during fire alarm.

Comment:

8. Lab 1 106B and Lab 2 106A – ISD requests to shunt sub-panel "PL106B" to eliminate sound from hair dryers that may add to the ambient sound level making it difficult to hear the audible portion of the fire alarm. Strobes are installed in the room and meet NFPA-72 spacing.

Action:

Electrical contractor shall provide fire alarm control module to shunt trip the main breaker of panel "PL106B".

Comment:

9. Band 014 and Music CR013, ISD requested an additional notification appliance for when instruments are being played. There is currently a visual notification in each room that meets NPFA-72 spacing however it was the ISDs feeling that it was not as visible as they would like and that an additional appliance at the front of the room wall mounted above marker board would improve the visibility of the visual portion of the notification appliance in the case that instruments were being played.

Action:

Electrical Contractor shall install new speaker/strobe 6" above marker board at the front of each room Band 104 and Music CR 013. Speaker shall be set to 2 watts and strobe to 75 cd.

If you have any questions or concerns regarding the above, please contact our office at your earliest convenience.

DMP:jfm

Cc: Robert Williams, AIA LEED AP, HMFH Architects, Inc
Tina Stanislaski, AIA LEED AP, HMFH Architects, Inc
Laura Wernick, FAIA, REFP, LEED AP, HMFH Architects, inc.



August 4, 2020

Garret Bertolini
PC Construction
131 Presumpscot Street
Portland, ME 04103

OFFICE: (617) 492 2200
FAX: (617) 876 9775

130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

Re: Change Request Proposal – 190430
Access for Emergency generator

Dear Garret:

HMFH has reviewed this Change Request Proposal and is recommending to the Owner that it and the associated cost of \$1,073.00 be reviewed by the JBC. Furthermore, it is our understanding that PC Construction is not requesting any time be added to the contract for the work related to this CRP.

Inspectional Services is requesting a hole in the masonry wall for a temporary hookup of an emergency generator.

In case the generator fails Inspectional Services requested a quick connect for a temporary generator into the emergency life safety systems. At the time of the request it was agreed that access for the cable connection would be achieved thru the doors into the main electric room which is why it was not included in the original change order for the connection. This is not a code issue, it is a convenience if the generator ever fails.

In approving this CR, the Owner is not accepting the request for reservation of rights identified in the CR.

Very Truly yours,

HMFH Architects

Alan Pemstein, AIA

encl: CRP 190430
cc: Stephanie Cartabona, Clerk
Bob Carrier, Chair JBC
Laura Wernick, HMFH

Arthur S. Duffy, AIA
Chin Lin, AIA
Colin R. Dockrill, AIA
Deborah A. Collins, AIA
Devin E. Canton, AIA
Erica Metzger
George R. Metzger, AIA
John F. Miller, FAIA
Julie Nugent, AIA
Laura A. Wernick, FAIA
Lori Cowles, AIA
Margaret M. Munroe
Mario J. Torroella, FAIA
Matthew LaRue, AIA
Melissa A. Greene, AIA
Philip S. Lewis, AIA
Robert P. Williams, AIA
Stephen Friedlaender, FAIA
Tina Stanislawski, AIA
Vassilios Valaas, AIA



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

**15027: Dover High School and Career
Technical Center**
25 Alumni Drive
Dover, NH 03820

Change Request Proposal 190430

Title **RFI 879 - Storm Switch Pathway**
Date Issued **07/31/2020**
Proposal Status **Submitted (Not Proceeding)**

Architect

Alan Pemstein
HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

T: 617.844.2140
F: 617.876.9775
E: apemstein@hmfh.com

Owner

Robert Carrier
Dover School District
61 Locust Street 409
Dover, NH 03820-4132

T: 603.516.6800
F: 603.516.6809
E:

Project Cost And Schedule Impacts

This proposal will increase the value of this contract by \$1,073.00.

Scope Of Work

Furnish & installation of a 4" Electrical Conduit pathway through the exterior wall and into Emergency Electrical Room 045A. Scope of work includes coring through the exterior masonry wall, installation of 4" conduit with cap, and sealing through wall penetration.

Cost Items

Description	Company	Phase	Amount
Kidder Concrete Cutting - Through Wall Exterior Core Hole	PC Construction	190430	\$ 650.00
Misc Materials	PC Construction	190430	\$ 100.00
PC General Conditions (SPE 4HR@\$72/HR)	PC Construction	190430	\$ 288.00
L1 Markup - Overhead & Profit (2%)		900000	\$ 21.00
L2 Markup - Insurance (0.75%)		016150	\$ 8.00
L2 Markup - P&P Bond (0.56%)		016200	\$ 6.00
Total			\$1,073.00

Architect/Engineer Recommendation

I have reviewed this change proposal and agree that it appears to be fair and reasonable and recommend acceptance.

Signature

Date

Name & Title of Authorized Representative

Alan Pemstein
HMFH Architects, Inc.

Owner Approval

By signing below, the Owner authorizes this work to proceed and agrees that PC shall be compensated by the appropriate time and cost. This Change Request Proposal will be included in the next Contract Change Order.

Signature

Date

Name & Title of Authorized Representative

Robert Carrier
Joint Building Committee Chair
Dover School District

This change request proposal includes only the direct costs associated with this work. PC Construction Company reserves the right to later claim schedule adjustment and extension of time, and for all other indirect impact costs caused by or resulting from this change proposal and cumulative effects of other change orders to the work of this contract.



ROUGH LOCATION OF CORE HOLE, EXACT LOCATION TO BE COORDINATED IN FIELD

KIDDER CONCRETE CUTTING INC.

22 Danville Road
Plaistow, NH. 03865
www.Kidderconcrete.com

603-382-1799

Fax # 603-382-2411

PROPOSAL

Date	Estimate #
7/30/2020	4098

Name / Address
PC CONSTRUCTION COMPANY 193 TILLEY DRIVE SOUTH BURLINGTON V.T. 05403

Job Name / Location
DOVER HIGH SCHOOL DOVER NH NICK 359-1956

Qty	Item Code	Description	Price ...	Total
	NH CORE...	1= 5" HOLE X 4" BRICK VENEER WALL KCC TO POLY PROTECT WALL PRIOR TO DRILLING. KCC TO SPRAY WALL ONCE CORING IS COMPLETE IF SLURRY SEEP BY ON TO BRICK. HOLE PRICE BY T/M	650.00	650.00

*Kidder Concrete Cutting & Coring Inc. is not responsible for the cutting of any electrical, plumbing, or utilities that may be embedded into the concrete and under concrete slab.

WE PROPOSE hereby to furnish material and labor - complete in accordance with the above specifications, for the sum of **\$650.00**

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to supply all necessary and required insurance. Our workers are fully covered by Worker's Compensation insurance.

Acceptance of Proposal - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature: _____

Date: _____

Authorized Signature



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

**15027: Dover High School and Career
Technical Center**
25 Alumni Drive
Dover, NH 03820

Request For Information 0879

Title	Item to Resolve for CO - Storm Switch Pathway				
Priority	High	Source	Potentially	Schedule Impact	Potentially
Issue Date	07/15/2020	Cost Impact	\$	Days	
Due Date	07/20/2020	Cost Amount			

Sent To

Alan Pemstein
HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

T: 617.844.2140
F: 617.876.9775

Sent By

Nicolas Rouleau
PC Construction Company

T: (802) 658.4100
F: 802 419.5024

Question

In ASI 020 a storm switch was incorporated into the project. RFI 268 provided the location of the storm switch to be installed in the main electric room. A means to install a temporary cable to the storm switch of the generator is an item noted to resolve per Certificate of Occupancy. Please confirm the requirements of the pathway/sleeve.

Suggestion

Response

This issue was discussed with IS at the time they requested the storm switch. The design team and IS agreed at the time that the cable could be brought in through the doors and that an additional penetration of the envelope was unnecessary.

This is on the completion list:

- 5) A means to install temporary cable to the Storm switch of generator shall be determined. Open 5/29/20. **GGD**
Response: System cables can be brought in through exterior door during maintenance.

Signature

Date

Attachments

PC NOTE: RESPONSE PROVIDED ABOVE WAS REVIEWED AND REJECTED WITH INSPECTIONAL SERVICES ON 7/29/2020 DUE TO THE FOLLOWING REASONS IF A BACK-UP GENERATOR WAS BROUGHT ONTO THE SITE:

- EXTERIOR DOOR EX-C0-5 WOULD BE PROPPED OPEN THUS BUILDING WOULD NOT BE SECURED.
- INTERIOR DOOR 045 - WOULD BE PROPPED OPEN WHICH IS PART OF A SMOKE PARTITION ASSEMBLY
- INTERIOR DOOR 034A - WOULD BE PROPPED OPEN WHICH IS PART OF A ONE HOUR FIRE RATED ASSEMBLY





August 4, 2020

Garret Bertolini
PC Construction
131 Presumpscot Street
Portland, ME 04103

OFFICE. (617) 492 2200
FAX. (617) 876 9775

130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

Re: Change Request Proposal – 190431
Sprinkler Head Kiln Room

Dear Garret:

HMFH has reviewed this Change Request Proposal and is recommending to the Owner that it and the associated cost of \$2,352.00 be reviewed by the JBC. Furthermore, it is our understanding that PC Construction is not requesting any time be added to the contract for the work related to this CRP.

Due to the depth of the kiln hood, the sprinkler head in the room needs to be relocated.

The cost for relocating the sprinkler head (\$1700.00) is acceptable.

The hood was not installed in the room at the time of the HVAC consultants punchlist in August of 2018, nor was it installed by the final back punch in May 2019. If the hood had been in place for the consultants review the conflict between depth of hood and location of head would have been identified. The time spent by PC investigating the issue (\$576.00) is the result of their not installing the hood in a timely way.

In approving this CR, the Owner is not accepting the request for reservation of rights identified in the CR.

Very Truly yours,

HMFH Architects

Alan Pemstein, AIA

encl: CRP 190431, RFI 877

cc: Stephanie Cartabona, Clerk
Bob Carrier, Chair JBC
Laura Wernick, HMFH

Arthur S. Duffy, AIA
Chin Lin, AIA
Colin R. Dockrill, AIA
Deborah A. Collins, AIA
Devin E. Canton, AIA
Erica Metzger
George R. Metzger, AIA
John F. Miller, FAIA
Julia Nugent, AIA
Laura A. Wernick, FAIA
Lori Cowles, AIA
Margaret M. Munroe
Mario J. Torroella, FAIA
Matthew LaRue, AIA
Melissa A. Greene, AIA
Philip S. Lewis, AIA
Robert P. Williams, AIA
Stephen Friedlaender, FAIA
Tina Stanislawski, AIA
Vassilios Vataes, AIA



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

**15027: Dover High School and Career
Technical Center**
25 Alumni Drive
Dover, NH 03820

Change Request Proposal 190431

Title **RFI 877 - Kiln Hood Sprinkler Pendant Obstruction**
Date Issued **07/31/2020**
Proposal Status **Submitted (Not Proceeding)**

Architect

Alan Pemstein
HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

T: 617.844.2140
F: 617.876.9775
E: apemstein@hmfh.com

Owner

Robert Carrier
Dover School District
61 Locust Street 409
Dover, NH 03820-4132

T: 603.516.6800
F: 603.516.6809
E:

Project Cost And Schedule Impacts

This proposal will increase the value of this contract by \$2,352.00.

Scope Of Work

Relocate existing sprinkler pendant and add an additional pendant to Kiln Room 131A in-order to correct the current sprinkler obstruction created by the kiln hood.

Cost Items

Description	Company	Phase	Amount
Carter Sprinkler	John L. Carter Sprinkler Co., Inc.	190431	\$ 1,700.00
PC Investigation of Issue & Supervision (SPE 8HR@\$72/HR)	PC Construction	190431	\$ 576.00
L1 Markup - Overhead & Profit (2%)		900000	\$ 46.00
L2 Markup - Insurance (0.75%)		016150	\$ 17.00
L2 Markup - P&P Bond (0.56%)		016200	\$ 13.00
Total			\$2,352.00

Architect/Engineer Recommendation

I have reviewed this change proposal and agree that it appears to be fair and reasonable and recommend acceptance.

Signature

Date

Name & Title of Authorized Representative

Alan Pemstein

HMFH Architects, Inc.

Owner Approval

By signing below, the Owner authorizes this work to proceed and agrees that PC shall be compensated by the appropriate time and cost. This Change Request Proposal will be included in the next Contract Change Order.

Signature

Date

Name & Title of Authorized Representative

Robert Carrier
Joint Building Committee Chair
Dover School District

This change request proposal includes only the direct costs associated with this work. PC Construction Company reserves the right to later claim schedule adjustment and extension of time, and for all other indirect impact costs caused by or resulting from this change proposal and cumulative effects of other change orders to the work of this contract.

JOHN L. CARTER SPRINKLER CO.
9 DUNKLEE ROAD
BOW, NH 03304
(603)224-5438

JOB WORK ORDER

14645

Customer Order No.		Phone	Mechanic	Helper	Date of Order 07/30/2020
Bill To PC Construction		Starting Date			Order Taken By Sam
Address		Email			☐ Day Work ☐ Contract ☒ Extra
Job Name & Location Dover High School		Job Phone			
Dover, NH					

Description of Work:

Relocate one head and add one head to
accommodate kiln room vent hood.

Drain and refill system.

Two men for six hours = \$1,200.00

Material = \$100.00

Design → evaluate & generate

new scenario → 4 hours = \$400.00

Total \$1,700.00

Total Materials	100	00
Total Labor	1,600	00
Tax		
Date Completed	Work Ordered By	Total 1,700 00

Signature

☐ Total Amount Due
for Above Work: or

☐ Total Bill to be Mailed After
Completion of Work

I hereby acknowledge the satisfactory completion of the above described work.

☐ No one Home

Thank You



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

**15027: Dover High School and Career
Technical Center**
25 Alumni Drive
Dover, NH 03820

Request For Information 0877

Title	Item to Resolve for CO - Kiln Hood Sprinkler Obstruction				
Priority		Source			
Issue Date	07/02/2020	Cost Impact	Potentially	Schedule Impact	Potentially
Due Date	07/07/2020	Cost Amount	\$	Days	

Sent To

Alan Pemstein
HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

Sent By

Nicolas Rouleau
PC Construction Company

T: 617.844.2140
F: 617.876.9775

T: (802) 658.4100
F: 802 419.5024

Question

Please advise if the Kiln Hood that was installed in Room 131A is a sprinkler obstruction. Please refer to the attached PDF for dimensions from the hood to the sprinkler pendant. (Note: Kiln Hood Size was provided in RFI 499)

Suggestion

7/14 - Corrective Suggestion from Carter Sprinkler -

Because the top of the hood is "less than or equal to 18" below the sprinkler deflector," per NFPA 13-2016, section 8.6.5.2.1.3, the sprinkler must be a minimum of three times the largest dimension of the obstruction to a maximum of 24". The new sprinkler locations shown in the attached sketch, achieves the 24". Because the hood is not over 4' wide, per NFPA 13-2016, section 8.6.5.3.3, sprinklers are not required below it. Refer to attached PDF.

Response

HMFH Response, "The engineer reviewed it and believes it is a good option. the space is really too small for 2 sprinklers - but the interpretation needs to be approved by IS"

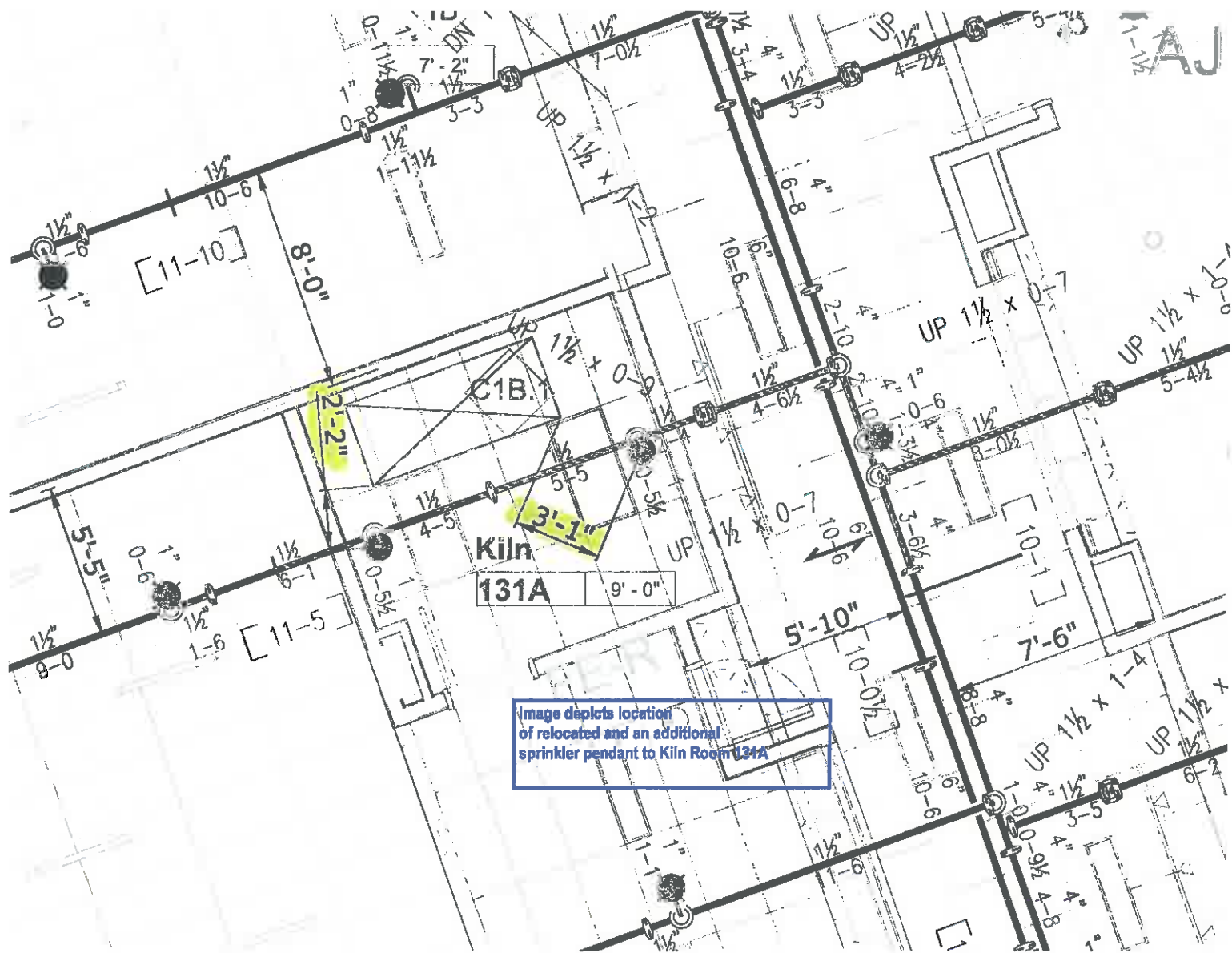
NOTE: IS Reviewed and accepted the code interpretation noted above.

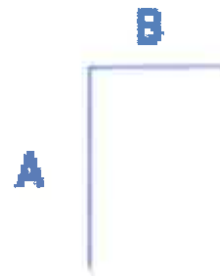
Alan Pemstein HMFH Architects, Inc.
Signature

07/14/2020
Date

Attachments

RFI 876 Attachment
RFI 877 - backup





A= 28-1/8"
(Bottom of Ceiling to Bottom of Hood)

B= 13"
(Center of Sprinkler to Pendant)



August 5, 2020

Garret Bertolini
PC Construction
131 Presumpscot Street
Portland, ME 04103

OFFICE: (617) 482 2200
FAX: (617) 878 9775

130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

Re: Change Request Proposal – 190432
Fire Alarm Changes

Dear Garret:

HMFH has reviewed this Change Request Proposal and is recommending to the Owner that it and the associated cost of \$43,729.31 be reviewed by the JBC. Furthermore, it is our understanding that PC Construction is not requesting any time be added to the contract for the work related to this CRP.

It is the understanding of the design team that the 3rd party review found the Fire Alarm Design to be code compliant. These changes are revisions to the installed system as requested by Inspectional Services.

In approving this CR, the Owner is not accepting the request for reservation of rights identified in the CR.

Very Truly yours,

HMFH Architects

Alan Pemstein, AIA

encl: CRP 190432, GGD review

cc: Stephanie Cartabona, Clerk

Bob Carrier, Chair JBC

Laura Wernick, HMFH

Arthur S. Duffy, AIA
Chin Lin, AIA
Colin R. Dockrill, AIA
Deborah A. Collins, AIA
Devin E. Canton, AIA
Erica Metzger
George R. Metzger, AIA
John F. Miller, FAIA
Julie Nugent, AIA
Laura A. Wernick, FAIA
Lori Cowles, AIA
Margaret M. Munroe
Mario J. Torroella, FAIA
Matthew LaRue, AIA
Melissa A. Greene, AIA
Philip S. Lewis, AIA
Robert P. Williams, AIA
Stephen Friedlaender, FAIA
Tina Stanislawski, AIA
Vassilios Valaas, AIA

M#72672
J#831 044 00.00

DATE: August 5, 2020

MEMO

TO: Alan Pemstein, AIA LEED AP
HMFH Architects, Inc.

FROM: David M. Pereira, P.E., Principal



DEPT: Electrical

PROJECT: Dover High School and Technical Center
Dover, NH

SUBJECT: CR #190432 – Fire Alarm Changes per Review of System with RPSA

Please be advised of the following:

We have reviewed Wayne J. Griffin Electric, Inc. portion of Change Request Proposal No. 190432 in the amount of \$35,481.3.1 for costs associated with revisions to the fire alarm system as reviewed per the 7/22/2020 RPSA Field Report and offer the following comments:

1. Additional capacity:

- The Bid Documents per plans and specifications for amplifier capacity including initial change order work should be 101.2 watts including the 20% space capacity. So the 100 Watt amplifier although 1.2 Watts shy is generally adequate and the 100 Watt amplifier was accepted. Once (7) speaker strobes added by the AHJ, (6) of which in GGD's opinion were not required by code, an additional 4.5 Watts was added to the system. In addition to the above added devices, the AHJ required tapping of speakers throughout the spaces resulted in a total wattage of 120.5. With that being said, we feel the change order for this scope appears reasonable and recommend approval, with exception to 32 hours of previous testing. This should be treated separately.

2. Added annunciator to Principal's Office:

- This is not a code requirement and was requested by the AHJ. The cost seems fair and reasonable.

3. Remove pre-recorded message from fire alarm system:

- We take no exception to this AHJ requested change.

4. Change fire alarm chime to one selected by RPSA:

- We take no exception to this AHJ requested change.

5. Modify existing fire alarm device and add one (1) new surface mounted horn strobe device to Building Construction Lab:

- We take no exception to this AHJ requested change. GGD feels that this is above and beyond what code requires.

GARCIA • GALUSKA • DESOUSA

Consulting Engineers

Inc.

M#54435

J#831 044 00.00

Page 2

6. Add One (1) New surface mounted fire alarm strobe device to Woodworking Lab:
 - We take no exception to this AHJ requested change. GGD feels that this is above and beyond what code requires.
7. Install shunt trip to two (2) electrical outlets at Courtyard near town square (Electrical outlets PPGB-40 & 30):
 - This scope should be removed as it was already priced in CRP #190375 as part of PR-79:
 - "Courtyard: Install fire alarm control relays at outlets PPGB-38, 40.
8. Provide an additional re-test of the system with IS:
 - This is required; GGD has no comment
9. Remove overtime acceleration \$1,920.00, as the work will be done during normal business hours.

If you have any questions or concerns regarding the above please contact our office at your earliest convenience.

DMP: sms

Enc.

Cc: Robert Williams, AIA LEED AP, HMFH Architects, Inc.
Tina Stanislaski, AIA LEED AP, HMFH Architects, Inc.
Frank Mortell, Garcia, Galuska & DeSousa Inc.



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

15027: Dover High School and Career Technical Center

25 Alumni Drive
Dover, NH 03820

Change Request Proposal 190432

Title Fire Alarm Changes Per Review of System with RPSA
Date Issued 08/04/2020
Proposal Status Submitted (Not Proceeding)



Architect

Alan Pemstein
HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

T: 617.844.2140
F: 617.876.9775
E: apemstein@hmfh.com

Owner

Robert Carrier
Dover School District
61 Locust Street 409
Dover, NH 03820-4132

T: 603.516.6800
F: 603.516.6809
E:

Project Cost And Schedule Impacts

This proposal will increase the value of this contract by \$43,729.31.

Scope Of Work

Provide Revisions to the Fire Alarm System as Reviewed per the 7/22/2020 RPSA Field Report. Pricing is base upon the following:

- Address Overloaded Loops
- Add Annunciator to Principals Office
- Remove Pre-Recorded Message From Fire Alarm System
- Change Fire Alarm Chime to one selected from RPSA
- Modify Existing Fire Alarm Devices and Add One (1) New Surface Mounted Horn Strobe Device to Building Construction Lab.
- Add One (1) New Surface Mounted Fire Alarm Strobe Device to Woodworking Lab
- Install Shunt Trips to two (2) electrical outlets at Courtyard near Town Square. (Electrical Outlets PPGB-40 & 38)
- Provide an additional retest of the system with IS.
- The cost associated with new fire alarm Horn and Horn/Strobes is not included as devices from owner Attic Stock will be utilized.
- The cost associated with a scissor lift is not included as the School's Scissor Lift will be utilized to perform work.
- Work to be performed during normal business hours.
- Price of work includes PC General Conditions for 11 Days.

Note: The Fire Alarm Subcontractor, JCI, will be unable to perform this work until 8/27/2020.

Cost Items

Description	Company	Phase	Amount
1. Fire Alarm Revisions to System. WJGE Modified Proposal Dated 8/3/2020	Wayne J. Griffin Electric, Inc.	190432	\$ 35,481.31
Misc Materials	PC Construction	190432	\$ 500.00
PC General Conditions (SPE 11 Days @ \$72/HR	PC Construction	190432	\$ 6,336.00
L1 Markup - Overhead & Profit (2%)		900000	\$ 846.00
L2 Markup - Insurance (0.75%)		016150	\$ 324.00
L2 Markup - P&P Bond (0.56%)		016200	\$ 242.00
Total			\$43,729.31

Architect/Engineer Recommendation

I have reviewed this change proposal and agree that it appears to be fair and reasonable and recommend acceptance.

Signature

Date

Owner Approval

By signing below, the Owner authorizes this work to proceed and agrees that PC shall be compensated by the appropriate time and cost. This Change Request Proposal will be included in the next Contract Change Order.

Signature

Date

{{aS_es_signer1_signature}} {{aD_es_signer1_date}}

Name & Title of Authorized Representative

Alan Pemstein

HMFH Architects, Inc.

{{oS_es_signer2_signature}} {{oD_es_signer2_date}}

Name & Title of Authorized Representative

Robert Carrier

Joint Building Committee Chair

Dover School District

This change request proposal includes only the direct costs associated with this work. PC Construction Company reserves the right to later claim schedule adjustment and extension of time, and for all other indirect impact costs caused by or resulting from this change proposal and cumulative effects of other change orders to the work of this contract.



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

August 3, 2020

VIA EMAIL ONLY: gbertolini@pcconstruction.com

Mr. Garret Bertolini, Senior Project Manager
PC Construction Company
25 Alumni Dr.
Dover, NH 03820

RE: Job #2257 - Dover High School, Dover, NH
Proposal #275

Dear Mr. Bertolini:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

- Additional Capacity
- Review the overloaded loops with JCI and determine which loops are now overloaded due to the increasing tap.
- Installation of a new fire alarm cabinet and extend overloaded loops to the cabinet.
- Provide an additional retest of the system with IS.
- Additional Annunciator and mic to the principal's office as requested by the school.
- Provide two ¹/~~2~~ additional speaker strobes and relay modules for the receptacle control as requested.
And one (1) Additional Strobe
- Excludes cutting, coring, patching, and painting associated with this change order.

Corporate Headquarters:
116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

MA A8999 NH 4223M VT EM3303 CT ELC.0201601-E1 RI AC004946 ME MC60017598 AL 16318 GA EN213065 NC U.32115

www.waynejgriffinelectric.com

Mr. Garret Bertolini

August 3, 2020

Page 2

Material	\$	14,118.67	16,918.67
Labor		16,676.69	
Overhead		1,411.87	1,691.87
Subtotal	\$	32,207.23	35,287.23
Bond		177.14	194.08
Total	\$	32,384.37	35,481.31

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

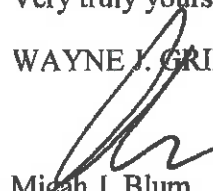
The value included in this proposal does not include any amounts for extended contract duration, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (508) 306-5338 or mblum@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.


Micah J. Blum
Project Manager

MJB/jav

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____
cc: Nick Rouleau, S. Project Engineer, PC Construction Company,

nrouleau@pcconstruction.com

Michael Brennan, Assistant Project Manager, Wayne J. Griffin Electric, Inc.

Mike Lovely, Project Foreman, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0275, Additional Fire alarm
Date: 7/31/2020
Project Name: Dover High School
Project Number: 02257-00-16
Page Number: 1

Work Description

Additional Capacity

-review the overloaded loops with JCI and determine which loops are now overloaded due to the increasing tap

-Installation of a new fire alarm cabinet and extend overloaded loops to the cabinet

-Provide an additional retest of the system with IS

Additional Annunciator and mic to the principles office as requested by the school.

1
-Provide (2) additional speaker strobes and relay modules for the receptacle control as requested
- Provide (1) additional strobe and relay modules for the receptacle control as requested
Excludes cutting, coring, patching, and painting associated with this change order.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
ADDED ANNUNCIATOR						
LOT FIRE ALARM QUOTE	1.00	4,857.0000		4,857.000	0.000	0.000
TESTING	1.00	0.0000		0.000	6.000	6.000
14/2 FA MC	750.00	1.9102		757.650	0.000	0.000
LABOR	1.00	0.0000		0.000	32.000	32.000
FIRE STOPPING	1.00	150.0000		150.000	0.000	0.000
3/4" EMT CONDUIT	20.00	2.9000	FT	58.000	0.000	0.000
3/4" EMT STEEL SET SCREW CONNECTOR	4.00	0.7725	EA	3.090	0.000	0.000
3/4 X CLOSE RIGID NIPPLE	4.00	2.6100	EA	10.440	0.000	0.000
4" SQ. BOX 2-1/8" DEEP 1/2" & 3/4" KO	2.00	9.3950	EA	18.790	0.000	0.000
4" SQ. COVER FLAT BLANK	2.00	4.4650	EA	8.930	0.000	0.000
3/8" STRAIGHT MC/BX CONNECTOR (2-SCREW)	8.00	1.7275	EA	13.820	0.000	0.000
Phase Totals				5,877.72		38.00
ADDITIONAL CAPACITY						
MISC FITTING	1.00	80.0000		80.000	0.000	0.000
LOT FIRE ALARM QUOTE	1.00	4,857.0000		4,857.000	0.000	0.000
FIRE ALARM INSTALL	1.00	0.0000		0.000	24.000	24.000
PREVIOUS TESTING COMPLETED	1.00	0.0000		0.000	32.000	32.000
REVIEW FOR FA MOD	1.00	0.0000		0.000	8.000	8.000
CHANGING TAP	1.00	0.0000		0.000	4.000	4.000
TESTING	1.00	0.0000		0.000	6.000	6.000
OTE FA SCOPE Credit to be Provided with Shunt Trip Credit	1.00	0.200.0000		0.200.000	0.000	0.000
1" EMT CONDUIT	50.00	4.9700	FT	248.500	0.000	0.000
#14 THHN-CU-STRANDED-BLACK-500FT COIL	1,500.00	0.1675	FT	251.250	0.000	0.000
#12 THHN-CU-STRANDED-BLACK-500FT COIL	250.00	0.2475	FT	61.880	0.000	0.000
Phase Totals				5,498.63		74.00



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0275, Additional Fire alarm
Date: 7/31/2020
Project Name: Dover High School
Project Number: 02257-00-16
Page Number: 2

ADDITIONAL CIRCUIT CONTROL AND SPKR/STROBES

LIFT RENTAL	Utilize School Scissor Lift	1.00	500.0000	500.000	0.000	0.000
SPEAKER STROBES	Utilize Devices from School Attic Stock	2.00	0.0000	0.000	0.000	0.000
LOT FIRE ALARM		1.00	658.0000	658.000	0.000	0.000
OVERTIME ACCELERATION		1.00	1,920.0000	1,920.000	0.000	0.000
TESTING		1.00	0.0000	0.000	0.000	0.000
PLAN REVIEW		1.00	768.0000	768.000	0.000	0.000
LOT LABOR		1.00	0.0000	0.000	60.000	60.000
3/4" EMT CONDUIT		300.00	2.9000 FT	870.000	0.000	0.000
3/4" EMT STEEL SET SCREW COUPLING		30.00	2.8800 EA	86.400	0.000	0.000
3/4" EMT STEEL SET SCREW CONNECTOR		16.00	0.7731 EA	12.370	0.000	0.000
1/2" FLEX CONDUIT		40.00	0.7330 FT	29.320	0.000	0.000
14/2 MC CABLE - 1000FT REEL		500.00	1.0102 FT	505.100	0.000	0.000
14/2 FIRE ALARM CABLE		750.00	0.5101 FT	382.560	0.000	0.000
4" SQ. BOX 2-1/8" DEEP 1/2" & 3/4" KO		10.00	9.3970 EA	93.970	0.000	0.000
4" SQ. COVER FLAT BLANK		8.00	5.4625 EA	43.700	0.000	0.000
SG WP BOX 2 5/8IN DEEP WITH 3-3/4IN HUBS		2.00	36.4400 EA	72.880	0.000	0.000
Phase Totals				5,442.32	5,442.32	60.00
Totals				16,918.67	14,448.67	172.00
Tax					0.00	
Materials with				16,918.67	14,448.67	

Summary

Itemized Breakdown Total		16,918.67	14,448.67
Elect. Journeyman	(86.0000 hrs @ \$77.95 / hr)	6,703.70	
Elect. Journeyman Overtime	(86.0000 hrs @ \$106.15 / hr)	9,128.90	
		15,832.60	
Material Markup	16,918.67	1,691.87	1,411.67
	(\$14,448.67 @ 10.00%)		
Foreman	(8.60 hrs @ \$98.15 / hr)	844.09	
Bond	\$35,287.33	2,535.96	2,255.96
	(\$32,207.23 @ 0.55%)	194.08	177.14
		194.08	177.14
		2,730.04	2,433.10
Total		35,481.31	32,384.37

**CONSTRUCTION**

AT PC WE GO ABOVE AND BEYOND ON EVERY JOB, PERIOD.

Exhibit B Contractor Personnel Billing Rates

Dover High School & Regional Career Technical Center

PC Project No. 15027

Position	Cost/Hr
Construction Executive	\$135
Senior Superintendent	\$118
Senior Project Manager	\$118
Corporate Scheduling Engineer	\$105
Director of Estimating	\$104
Project Manager	\$95
Project Superintendent	\$93
Safety Manager	\$93
Trade Superintendent	\$91
Senior Estimator	\$83
Senior Project Engineer	\$72
Project Estimator	\$70
MEP Coordinator	\$63
Senior Virtual Construction Engineer	\$60
Project Engineer	\$60
Construction Coordinator	\$60
Scheduling Engineer	\$57
Safety Engineer	\$57
MEP Estimator	\$55
Staff Estimator	\$55
Office Engineer	\$48
NON-EXEMPT POSITIONS	
Carpenter Foreman	\$58
Mechanic	\$54
Equipment Operator	\$46
Carpenter	\$46
Administration	\$43
Laborer	\$32

\$72/HR
8HR/DAY
x 11 Days

6,336.00

For non-exempt positions, overtime will be billed at posted rate times one and one half when applicable. Rates extend through December 31, 2015. Escalation will be in accordance with the terms of the contract.



FIRE PROTECTION ENGINEERS
www.rpsa-fire.com

R.P. SCHIFILITI ASSOCIATES, INC.
P.O. Box 297
Reading, MA 01867 - 0497
USA
781.944.9300 Fax
781.942.7500 Voice

*rpsa Project: 1340b
Dover High School /
Career Technical Center
25 Alumni Drive
Dover, NH*

Measurements and Observations: Site Visit Tuesday 2020 07 21

Measurements of the fire alarm alert tone sound pressure levels (SPLs) were made on 21 July 2020. The combined effectiveness of audible and visual alerting was subjectively evaluated by the team. In addition to a calibration test, 32 measurements were made at locations previously identified as failing or questionable. Measurements were made using an NTI Model XL2 Audio & Acoustic Analyzer (serial number A2A-09937-EO) equipped with a Model M4260 measurement microphone (serial number 5596). For each measurement, data files were saved electronically. The agenda included:

1. Measure alarm sound pressure levels (SPLs) in the following areas:
 - 1.1. Courtyard (Target: 80 – 85 dBA + direct viewing of visual appliances.)
 - 1.2. Welding (85 dBA required based on ambient. Target: 70 dBA + direct viewing of visual appliances.)
 - 1.3. Breakout area near stair 4 (floor 1) (Target: 75 dBA alarm SPL required based on estimated 70 dBA max. ambient.)
 - 1.4. Breakout area near stair 3 (floor 1) (Target: 75 dBA alarm SPL required based on estimated 70 dBA max. ambient.)
 - 1.5. Salon (Target: 70 dBA + direct viewing of visual appliances)
 - 1.6. Building Construction (Target: 70 dBA + direct viewing of visual appliances.)
 - 1.7. Woodworking (Target: 70 dBA + direct viewing of visual appliances.)
2. Assess the effectiveness of direct and indirect visual signaling in the following areas. Additional visual appliances may be recommended in lieu of increasing loudness or in lieu of altering ambient noise by using shunt trip devices.
 - 2.1. Courtyard
 - 2.2. Welding
 - 2.3. Salon
 - 2.4. Building Construction
 - 2.5. Woodworking

The fire alarm tone consists of a slow whoop that sweeps from a low to a high frequency. This multi-frequency signal is better able to penetrate noise that might be more prevalent in one or two frequency bands. The sweep also tends to help alert persons that might have hearing damage at a particular frequency band.

Table 1 – Sound Pressure Level Measurements

This table lists the maximum A-Weighted (6.3 – 20,000 Hz) SPL occurring over a ten second measurement time period using a Fast time constant (125 ms). The designation would be: $L_{A, F, MAX, 10S}$ in audio engineering. The approximate location for each test was documented on a set of building plans. In the table, S/S stands for Speaker/Strobe.

Test #	Agenda Item	Location Description	SPL (dBA)	Comments
000	N/A	Calibration test: 94 dB @1000 Hz	93.7 (dB)	
001	1.2 Welding	Corner	80.6	See Note 1
002		Corner	80.6	
003	1.3 near stair 4 (floor 1)	High ceiling area	74.7	See Note 2
004		Transition from high to low ceil.	74.0	
005		Low ceiling, near Room 124G	80.3	
006		Low ceiling, near Stair 4	77.8	
007		Between 005 & 006	76.1	
008	1.6 Bldg Const.	Low ceiling below S/S	86.4	See Note 3
009		Low ceiling below S/S	82.6	
010		Low ceiling between 008 & 009	79.7	
011		High ceil. area at wall	77.9	
012		High ceil. area near exit	75.3	
013		Inside shed under construction	69.6	
014		Outside shed under construction	75.7	
015		High ceil. near transition to low	77.4	
016		Tone preceding manual voice	71.4	
017	1.7 Woodworking	Below S/S	87.2	See Note 4
018		Corner near Room 125B	79.4	
019		Far corner	80.8	
020		Near exit door	81.7	
021	1.4 near stair 3 (floor 1)	High ceiling area, middle	77.7	See Note 5
022		High ceiling area, corner	75.1	
023		At transition of low to high ceil.	77.7	
024		Near stair access	76.9	
025	1.1 Courtyard	Ambient noise (mostly HVAC)	66.6	See Note 6
026		Mid near rooms 118, 144, 134	73.2	
027		Outside Room 148	81.7	
028		Outside Room 152	71.8	
029		Ambient noise (mostly HVAC)	66.1	
030	1.5 Salon	Below S/S	80.0	See Note 7
031		Corner near classroom	71.2	
032		Corner near teacher's desk	74.5	

NOTES:

1. The SPL of the alert tone was acceptable. Ambient measurements during an occupied period ranged from 70 – 80 dBA. Code requires + 5 dB. The system will pass except in the far corner work areas when all stations are active. The SPL in the space combined with the strobe was deemed acceptable for reliable alerting of the occupants.
2. The SPL of the alert tone was acceptable. Ambient measurements in similar spaces during an occupied period ranged from 62 – 71 dBA. The alert tone was measured at 74 – 80 dBA. Code requires + 5 dB. The system will pass except in parts of the high ceiling area. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.
3. This space has the potential for very high ambient noise levels. For an alert tone to be audible during the high noise, the SPL would approach dangerous levels. In addition, during periods of low noise, a high SPL alert could be dangerous, particularly where persons are using tools and machines. The alert SPL measured from about 71 – 86 dBA in the space and 70 dBA inside a shed being constructed. To increase alerting effectiveness, the two speaker/strobes located in the high ceiling area will be suspended to a lower level. An additional strobe will be added to the wall near the exit door. This will increase direct and indirect visual signaling. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.
4. This space has the potential for very high ambient noise levels. For an alert tone to be audible during the high noise, the SPL would approach dangerous levels. In addition, during periods of low noise, a high SPL alert could be dangerous, particularly where persons are using tools and machines. The alert SPL measured from about 79 – 87 dBA in the space. To increase alerting effectiveness, an additional strobe will be added to the wall in the NE corner (measurement location 019). This will increase direct and indirect visual signaling. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.
5. The SPL of the alert tone was acceptable. Ambient measurements in similar spaces during an occupied period ranged from 62 – 71 dBA. The alert tone was measured at 75 – 78 dBA. Code requires + 5 dB. The system will pass in most parts of the space. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.

6. Ambient noise consisted **mostly of HVAC noise at about 67 dBA**. That noise can be **penetrated by the multi-frequency slow whoop which was measured at 72 – 82 dBA**. However, if the space is used for large gatherings or if powered audio equipment is used, the **system will not work as needed**. **The peripheral strobe lights are only marginally effective** for direct viewing due to the bright daylight. For voice messaging, the system will only be effective where occupants are within about 10 – 20 feet of a loudspeaker. Additional planning is needed if the space is to be used for any large crowd gatherings. It was agreed that some power outlets would be labeled for powering audio equipment. Those outlets would be connected to a shunt-trip breaker interfaced to the fire alarm to disconnect power during an alarm. Additional mitigation might include the use of crowd managers during high capacity events. Even without large crowds or amplified sound, the alarm system is not capable of delivering intelligible voice to most of the space. Consideration should be given to designing and installing a new alerting and notification system **using high power** loudspeakers capable of intelligible voice.
7. This space has the potential for very high ambient noise levels. For an alert tone to be audible during the high noise, the SPL would approach dangerous levels. The alert SPL measured from about 71 – 80 dBA in the space. Strobes were effective with both direct and indirect signaling – increased by the wall of mirrors. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.

GENERAL COMMENTS:

As noted, occupant alerting will **occur in most cases through** the use of the multi-frequency slow whoop, combined with direct and indirect visual signaling. In areas where the ratio of the alert tone to the ambient noise (S/N) is less than about 10 dB, speech intelligibility will be low. Occupants can move closer to a loudspeaker to understand a message.

The system currently sounds the alert slow whoop and follows with a prerecorded evacuation message. In many occupancies a prerecorded voice message helps occupant to know what is meant by the alert tone they just heard. However, in K-12 frequent drills and training has resulted in occupants responding very quickly to the alert tone. As a result, occupants are up and moving already when the alert tone stops and a voice message starts. In areas where the system loudness and intelligibility is only fair, occupants will slow their movement and adjust their positions to be able to hear and understand the message. It is recommended that the prerecorded message be

eliminated. If the voice message is eliminated, crowd hesitation will be removed. Then, if a live voice message is initiated, the interruption of the evacuation tone will be apparent and occupants will know that the voice message is not a “normal” part of the fire evacuation signal.

When using a microphone to make a voice announcement, a different alert tone is sounded when the microphone key is depressed. This additional acoustic cue gets people’s attention, causing their auditory system to listen for something new. When tested, microphone announcements made from a remote command station were of a low quality and significantly lower in audibility. The remote station and the main microphone should be tested and the gain adjusted as needed.

The alert tone used for a manual voice announcement is a chime sound. It is recommended that the possibility of augmenting this alert be investigated. For example, an alert with multiple frequencies (but not a slow whoop) could be considered. Or, if the chime tone repeated four times instead of two it would give occupants more effective alerting to a change in the audio stream. The principle concept is for the alert to create a change in the environment. Then, when a manual voice announcement starts people will treat it as a new signal that they should try to understand. This results in a reduction of speech babble noise levels, which then improves intelligibility.

Respectfully submitted,
R.P. Schifiliti Associates, Inc.



Robert P. Schifiliti, P.E. (MA), FSFPE
President

19 August 2020
via email: S.cartabona@dover.nh.gov

Stephanie Cartabona
City of Dover
271 Mast Rd.
Dover, NH 03820-4169

Dear Stephanie:

Subject: Dover High School

Purchase Order No. 202004973:

Original PO value:	\$5,000.00
Request for Change Order 1:	\$2,500.00 not to exceed
Final PO value:	\$7,500.00

Billing to date:	\$3,482.54 (Invoice # 11150)
Balance to bill:	\$4,017.46

Our original proposal dated 19 November 2019, addressed the following tasks:

- Review existing planning, design and as-built documents.
- Review acceptance test documents and data.
- Review existing correspondence.
- Witness a test or a drill.
- Determine if there are areas where audibility needs to be improved.
- Determine if there are areas where voice messages should be intelligible, but are not.
- Cite code requirements for audibility.
- Cite code requirements for intelligibility.
- Assist in reviewing options for improvement.

After agreeing on acceptance and performance metrics, it was determined that some high noise areas should be reassessed to establish alternative methods for occupant alerting and notification. In addition, stakeholders decided that some areas where audibility was deemed marginal should also be reevaluated.

This proposal is for follow-up tasks including the following:

- Propose changes to acceptance criteria for high noise areas. Review with stakeholders.
- Measure alarm system alert tone in specific areas where voice intelligibility is difficult.
- Outline possible changes to signaling methodology to improve occupant response.
- Report results of site survey and system assessment.
- Recommend changes to emergency response plans to coordinate use of alarm and paging systems during different emergencies.
- If necessary, review proposed system hardware changes to advice owner on acceptability.

I estimate fees and expenses to not exceed \$2,500.00 for the above. Billing would be per the rates previously submitted and incorporated into your P.O. No. 202004973.

Please let me know if you have any questions.

Respectfully submitted,
R.P. Schifiliti Associates, Inc.



Robert P. Schifiliti, P.E. (MA), FSFPE
President

Measurements and Observations: Site Visit Tuesday 2020 07 21

Measurements of the fire alarm alert tone sound pressure levels (SPLs) were made on 21 July 2020. The combined effectiveness of audible and visual alerting was subjectively evaluated by the team. In addition to a calibration test, 32 measurements were made at locations previously identified as failing or questionable. Measurements were made using an NTI Model XL2 Audio & Acoustic Analyzer (serial number A2A-09937-EO) equipped with a Model M4260 measurement microphone (serial number 5596). For each measurement, data files were saved electronically. The agenda included:

1. Measure alarm sound pressure levels (SPLs) in the following areas:
 - 1.1. Courtyard (Target: 80 – 85 dBA + direct viewing of visual appliances.)
 - 1.2. Welding (85 dBA required based on ambient. Target: 70 dBA + direct viewing of visual appliances.)
 - 1.3. Breakout area near stair 4 (floor 1) (Target: 75 dBA alarm SPL required based on estimated 70 dBA max. ambient.)
 - 1.4. Breakout area near stair 3 (floor 1) (Target: 75 dBA alarm SPL required based on estimated 70 dBA max. ambient.)
 - 1.5. Salon (Target: 70 dBA + direct viewing of visual appliances)
 - 1.6. Building Construction (Target: 70 dBA + direct viewing of visual appliances.)
 - 1.7. Woodworking (Target: 70 dBA + direct viewing of visual appliances.)
2. Assess the effectiveness of direct and indirect visual signaling in the following areas. Additional visual appliances may be recommended in lieu of increasing loudness or in lieu of altering ambient noise by using shunt trip devices.
 - 2.1. Courtyard
 - 2.2. Welding
 - 2.3. Salon
 - 2.4. Building Construction
 - 2.5. Woodworking

The fire alarm tone consists of a slow whoop that sweeps from a low to a high frequency. This multi-frequency signal is better able to penetrate noise that might be more prevalent in one or two frequency bands. The sweep also tends to help alert persons that might have hearing damage at a particular frequency band.

Table 1 – Sound Pressure Level Measurements

This table lists the maximum A-Weighted (6.3 – 20,000 Hz) SPL occurring over a ten second measurement time period using a Fast time constant (125 ms). The designation would be: $L_{A, F, MAX, 10S}$ in audio engineering. The approximate location for each test was documented on a set of building plans. In the table, S/S stands for Speaker/Strobe.

Test #	Agenda Item	Location Description	SPL (dBA)	Comments
000	N/A	Calibration test: 94 dB @1000 Hz	93.7 (dB)	
001	1.2 Welding	Corner	80.6	See Note 1
002		Corner	80.6	
003	1.3 near stair 4 (floor 1)	High ceiling area	74.7	See Note 2
004		Transition from high to low ceil.	74.0	
005		Low ceiling, near Room 124G	80.3	
006		Low ceiling, near Stair 4	77.8	
007		Between 005 & 006	76.1	
008	1.6 Bldg Const.	Low ceiling below S/S	86.4	See Note 3
009		Low ceiling below S/S	82.6	
010		Low ceiling between 008 & 009	79.7	
011		High ceil. area at wall	77.9	
012		High ceil. area near exit	75.3	
013		Inside shed under construction	69.6	
014		Outside shed under construction	75.7	
015		High ceil. near transition to low	77.4	
016		Tone preceding manual voice	71.4	
017	1.7 Woodworking	Below S/S	87.2	See Note 4
018		Corner near Room 125B	79.4	
019		Far corner	80.8	
020		Near exit door	81.7	
021	1.4 near stair 3 (floor 1)	High ceiling area, middle	77.7	See Note 5
022		High ceiling area, corner	75.1	
023		At transition of low o high ceil.	77.7	
024		Near stair access	76.9	
025	1.1 Courtyard	Ambient noise (mostly HVAC)	66.6	See Note 6
026		Mid near rooms 118, 144, 134	73.2	
027		Outside Room 148	81.7	
028		Outside Room 152	71.8	
029		Ambient noise (mostly HVAC)	66.1	
030	1.5 Salon	Below S/S	80.0	See Note 7
031		Corner near classroom	71.2	
032		Corner near teacher's desk	74.5	

NOTES:

1. The SPL of the alert tone was acceptable. Ambient measurements during an occupied period ranged from 70 – 80 dBA. Code requires + 5 dB. The system will pass except in the far corner work areas when all stations are active. The SPL in the space combined with the strobe was deemed acceptable for reliable alerting of the occupants.
2. The SPL of the alert tone was acceptable. Ambient measurements in similar spaces during an occupied period ranged from 62 – 71 dBA. The alert tone was measured at 74 – 80 dBA. Code requires + 5 dB. The system will pass except in parts of the high ceiling area. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.
3. This space has the potential for very high ambient noise levels. For an alert tone to be audible during the high noise, the SPL would approach dangerous levels. In addition, during periods of low noise, a high SPL alert could be dangerous, particularly where persons are using tools and machines. The alert SPL measured from about 71 – 86 dBA in the space and 70 dBA inside a shed being constructed. To increase alerting effectiveness, the two speaker/strobes located in the high ceiling area will be suspended to a lower level. An additional strobe will be added to the wall near the exit door. This will increase direct and indirect visual signaling. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.
4. This space has the potential for very high ambient noise levels. For an alert tone to be audible during the high noise, the SPL would approach dangerous levels. In addition, during periods of low noise, a high SPL alert could be dangerous, particularly where persons are using tools and machines. The alert SPL measured from about 79 – 87 dBA in the space. To increase alerting effectiveness, an additional strobe will be added to the wall in the NE corner (measurement location 019). This will increase direct and indirect visual signaling. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.
5. The SPL of the alert tone was acceptable. Ambient measurements in similar spaces during an occupied period ranged from 62 – 71 dBA. The alert tone was measured at 75 – 78 dBA. Code requires + 5 dB. The system will pass in most parts of the space. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.

6. Ambient noise consisted mostly of HVAC noise at about 67 dBA. That noise can be penetrated by the multi-frequency slow whoop which was measured at 72 – 82 dBA. However, if the space is used for large gatherings or if powered audio equipment is used, the system will not work as needed. The peripheral strobe lights are only marginally effective for direct viewing due to the bright daylight. For voice messaging, the system will only be effective where occupants are within about 10 – 20 feet of a loudspeaker. Additional planning is needed if the space is to be used for any large crowd gatherings. It was agreed that some power outlets would be labeled for powering audio equipment. Those outlets would be connected to a shunt-trip breaker interfaced to the fire alarm to disconnect power during an alarm. Additional mitigation might include the use of crowd managers during high capacity events. Even without large crowds or amplified sound, the alarm system is not capable of delivering intelligible voice to most of the space. Consideration should be given to designing and installing a new alerting and notification system using high power loudspeakers capable of intelligible voice.
7. This space has the potential for very high ambient noise levels. For an alert tone to be audible during the high noise, the SPL would approach dangerous levels. The alert SPL measured from about 71 – 80 dBA in the space. Strobes were effective with both direct and indirect signaling – increased by the wall of mirrors. The SPL in the space combined with the strobes was deemed acceptable for reliable alerting of the occupants.

GENERAL COMMENTS:

As noted, occupant alerting will occur in most cases through the use of the multi-frequency slow whoop, combined with direct and indirect visual signaling. In areas where the ratio of the alert tone to the ambient noise (S/N) is less than about 10 dB, speech intelligibility will be low. Occupants can move closer to a loudspeaker to understand a message.

The system currently sounds the alert slow whoop and follows with a prerecorded evacuation message. In many occupancies a prerecorded voice message helps occupant to know what is meant by the alert tone they just heard. However, in K-12 frequent drills and training has resulted in occupants responding very quickly to the alert tone. As a result, occupants are up and moving already when the alert tone stops and a voice message starts. In areas where the system loudness and intelligibility is only fair, occupants will slow their movement and adjust their positions to be able to hear and understand the message. It is recommended that the prerecorded message be

eliminated. If the voice message is eliminated, crowd hesitation will be removed. Then, if a live voice message is initiated, the interruption of the evacuation tone will be apparent and occupants will know that the voice message is not a “normal” part of the fire evacuation signal.

When using a microphone to make a voice announcement, a different alert tone is sounded when the microphone key is depressed. This additional acoustic cue gets people’s attention, causing their auditory system to listen for something new. When tested, microphone announcements made from a remote command station were of a low quality and significantly lower in audibility. The remote station and the main microphone should be tested and the gain adjusted as needed.

The alert tone used for a manual voice announcement is a chime sound. It is recommended that the possibility of augmenting this alert be investigated. For example, an alert with multiple frequencies (but not a slow whoop) could be considered. Or, if the chime tone repeated four times instead of two it would give occupants more effective alerting to a change in the audio stream. The principle concept is for the alert to create a change in the environment. Then, when a manual voice announcement starts people will treat it as a new signal that they should try to understand. This results in a reduction of speech babble noise levels, which then improves intelligibility.

Respectfully submitted,
R.P. Schifiliti Associates, Inc.

A handwritten signature in black ink, appearing to read "R. Schifiliti".

Robert P. Schifiliti, P.E. (MA), FSFPE
President

Dover High School and Regional Career Technical Center Project
Summary of Contract Amounts and Expenditures/Obligations To Date
Feasibility Study & Design, Geotech and Construction Services
Date: August 20, 2020

Appropriation #1 (FY14), Issued January 26, 2014:	\$	900,000.00	
Appropriation #2 (FY15), Issued November 12, 2014:	\$	23,300,000.00	7108=CTE
Appropriation #3 (FY16), Issued July 22, 2015:	\$	49,700,000.00	7101=DHS
State of NH Funding:	\$	13,500,000.00	
Appropriation #4, DHS/RCTC Bond Premium Appropriation (Project Manager) Approved 5/11/2016:	\$	222,756.00	
Total Appropriation:	\$	87,622,756.00	

Vendor	Description of Services	(A) Contract Totals	(B) HS Portion of Total Amount @ 77.2%	(C) CTE Portion of Total Amount @ 22.8%	(D = B+C) Total Expenditures To Date	(E = A-D) HS & CTE Remaining Balance (Obligations)	District Share of CTE Portion @ 100%	(F = C x 25%) District Share of CTE Portion @ 25%	(G = C x 75%) (Invoiced through 5/31/2019, FINAL) State Share of CTE Portion @ 75%	State Funding Rec'd To Date COMPLETE
HMFH	Feasibility Study	\$ 485,000.00	\$ 374,420.00	\$ 110,580.00	\$ 485,000.00	\$0 - Complete	\$ -	\$ 27,645.00	\$ 82,935.00	\$ 82,935.00
HMFH	PSS#1: Frank Locker Visioning Study	\$ 29,150.00	\$ 22,503.80	\$ 6,646.20	\$ 29,150.00	\$0 - Complete	\$ 6,646.20	\$ -	\$ -	
HMFH	PSS#2: Universal Environmental, (Haz Mat)	\$ 6,270.00	\$ 4,840.44	\$ 1,429.56	\$ 6,270.00	\$0 - Complete	\$ 1,429.56	\$ -	\$ -	
HMFH	PSS#2: McPhail Associates, (GeoTech)	\$ 21,381.81	\$ 16,506.76	\$ 4,875.05	\$ 21,381.81	\$0 - Complete	\$ 4,875.05	\$ -	\$ -	
HMFH	PSS#2: Sebago Technics, (Site Survey)	\$ 43,780.00	\$ 33,798.16	\$ 9,981.84	\$ 43,780.00	\$0 - Complete	\$ 9,981.84	\$ -	\$ -	
HMFH	Add'l Services: Travel, Postage, Printing	\$ 7,811.25	\$ 6,030.29	\$ 1,780.97	\$ 7,811.25	\$0 - Complete	\$ -	\$ 445.24	\$ 1,335.72	\$ 1,335.72
Dover School District	Clerical, Legal and Supply Costs	\$ 14,527.35	\$ 11,215.11	\$ 3,312.24	\$ 14,527.35	\$0 - Complete	\$ 1,116.66	\$ 548.90	\$ 1,646.69	\$ 1,646.69
PC Construction	Construction Manager Services	\$ 96,000.00	\$ 74,112.00	\$ 21,888.00	\$ 96,000.00	\$0 - Complete	\$ -	\$ 5,472.00	\$ 16,416.00	\$ 16,416.00
Subtotal, Feasibility Study:		\$ 703,920.41	\$ 543,426.56	\$ 160,493.85	\$ 703,920.41	\$ -	\$ 24,049.31	\$ 34,111.14	\$ 102,333.41	\$ 102,333.41
Vendor	Description of Services	(A)	(B)	(C)	(D = B+C)	(E = A-D)	District Share of CTE Portion @ 100%	(F = C x 25%)	(G = C x 75%)	State Funding Rec'd To Date COMPLETE
HMFH	PSS#3: Schematic Design (15%)	\$ 1,008,000.00	\$ 778,176.00	\$ 229,824.00	\$ 1,008,000.00	\$0 - Complete	\$ -	\$ 57,456.00	\$ 172,368.00	\$ 172,368.00
HMFH	PSS#3 / PSS#6: Design Development (20%)	\$ 1,316,000.00	\$ 1,015,952.00	\$ 300,048.00	\$ 1,316,000.00	\$0 - Complete	\$ -	\$ 75,012.00	\$ 225,036.00	\$ 225,036.00
HMFH	PSS#3 / PSS#6: Construction Documents (25%)	\$ 1,633,000.00	\$ 1,260,676.00	\$ 372,324.00	\$ 1,633,000.00	\$0 - Complete	\$ -	\$ 93,081.00	\$ 279,243.00	\$ 279,243.00
HMFH	PSS#3: Bidding (5%)	\$ 336,000.00	\$ 259,392.00	\$ 76,608.00	\$ 336,000.00	\$0 - Complete	\$ 76,608.00	\$ -	\$ -	
HMFH	PSS#3: Construction Administration-Phase 1 (30%)	\$ 2,016,000.00	\$ 1,556,352.00	\$ 459,648.00	\$ 2,016,000.00	\$0 - Complete	\$ -	\$ 114,911.97	\$ 344,736.00	\$ 344,736.00
HMFH	PSS#3: Construction Administration-Phase 2 (5%)	\$ 336,000.00	\$ 260,359.59	\$ 75,640.41	\$ 336,000.00	\$0 - Complete	\$ 33,854.25	\$ 10,446.54	\$ 31,339.62	\$ 31,339.62
HMFH	Add'l Services: Travel, Postage, Printing	\$ 43,063.75	\$ 28,862.58	\$ 8,524.17	\$ 37,386.75	\$ 5,677.00	\$ 2,252.18	\$ 1,568.01	\$ 4,703.98	\$ 4,703.98
HMFH	PSS#4: Phail Associates - Geotechnical	\$ 40,630.28	\$ 31,366.58	\$ 9,263.70	\$ 40,630.28	\$0 - Complete	\$ 9,263.71	\$ -	\$ -	
HMFH	PSS#5: Synthetic Turf Field Design	\$ 59,185.50	\$ 45,691.21	\$ 13,494.29	\$ 59,185.50	\$0 - Complete	\$ 13,494.29	\$ -	\$ -	
HMFH	PSS#5: GGD-Technology Procurement	\$ 35,200.00	\$ 27,174.40	\$ 8,025.60	\$ 35,200.00	\$0 - Complete	\$ 8,025.60	\$ -	\$ -	
HMFH	PSS#5: UEC-Add'l HazMat Services	\$ 19,800.00	\$ 15,285.60	\$ 4,514.40	\$ 19,800.00	\$0 - Complete	\$ 4,514.40	\$ -	\$ -	
HMFH	PSS#5: PLS - Furniture & Equip Procurement	\$ 110,000.00	\$ 84,920.00	\$ 25,080.00	\$ 110,000.00	\$0 - Complete	\$ 25,080.00	\$ -	\$ -	
HMFH	PSS#7: Irrigation	\$ 9,350.00	\$ 7,088.05	\$ 2,261.96	\$ 9,350.01	\$0 - Complete	\$ 2,261.96	\$ -	\$ -	
HMFH	PSS#8 & PSS#10: Add'l Geotechnical Engineering	\$ 180,620.00	\$ 135,378.67	\$ 39,982.28	\$ 175,360.95	\$ 5,259.05	\$ 39,982.28	\$ -	\$ -	
HMFH	PSS#9: HMFH Professional Services (COW)	\$ 731.05	\$ 564.37	\$ 166.68	\$ 731.05	\$0 - Complete	\$ 166.68	\$ -	\$ -	
HMFH	PSS#11: Add'l HazMat-Asbestos monitoring & air sampling	\$ 82,500.00	\$ 63,690.00	\$ 18,810.00	\$ 82,500.00	\$0 - Complete	\$ -	\$ -	\$ -	
HMFH	PSS#12: Add'l Landscape Svs-Front Entrance Planting (10/1/19)	\$ 1,650.00	\$ 1,115.40	\$ -	\$ 1,115.40	\$ 534.60	\$ -	\$ -	\$ -	
HEA	Commissioning Agent (includes add'l fee of \$16,320, 11/13/18)	\$ 187,950.00	\$ 145,140.49	\$ 42,809.51	\$ 187,950.00	\$0 - Complete	\$ 1,641.25	\$ 10,292.07	\$ 30,876.19	\$ 30,876.19
Dover School District	Clerical Support, Legal and Supply Costs	\$ 12,064.65	\$ 9,313.91	\$ 2,750.74	\$ 12,064.65	\$0 - Complete	\$ 599.64	\$ 537.78	\$ 1,613.33	\$ 1,613.33
RW Gillespie	Materials Testing Svs & Special Inspections (\$17,500 added 5/14/19)	\$ 185,969.66	\$ 141,905.86	\$ 38,411.09	\$ 180,316.95	\$ 5,652.71	\$ 38,411.09	\$ -	\$ -	
Sebago Technics	Traffic Study	\$ 30,000.00	\$ 23,160.00	\$ 6,840.00	\$ 30,000.00	\$0 - Complete	\$ 6,840.00	\$ -	\$ -	
Eversource Energy	Install pole, anchor, xarms, cutouts for primary riser	\$ 8,608.00	\$ 6,645.37	\$ 1,962.63	\$ 8,608.00	\$0 - Complete	\$ 1,962.63	\$ -	\$ -	
Seacoast Media Group	Employment Ad for Clerk of Works	\$ 329.46	\$ 329.46	\$ -	\$ 329.46	\$0 - Complete	\$ -	\$ -	\$ -	
State of NH-DES	Wetlands Permit Application	\$ 200.00	\$ 154.40	\$ 45.60	\$ 200.00	\$0 - Complete	\$ 45.60	\$ -	\$ -	\$ -
Brooks/Cartabona	Clerk of Works (5/11/16 appropriation)	\$ 214,984.49	\$ 166,150.76	\$ 48,833.73	\$ 214,984.49	\$ -	\$ 48,833.73	\$ -	\$ -	\$ -
PC Construction	GMP, including additions/deductions by change order	\$ 74,751,023.22	\$ 58,084,725.46	\$ 16,606,149.98	\$ 74,690,875.44	\$ 60,147.78	\$ 1,400,566.64	\$ 3,800,518.25	\$ 11,405,065.09	\$ 11,405,065.09
Dover School District	Estimated Gas Usage for Construction Heaters	\$ 204,709.61	\$ 158,035.82	\$ 46,673.79	\$ 204,709.61	\$0 - Complete	\$ 46,673.79	\$ -	\$ -	\$ -
Eversource Energy	Removal of 3 overhead transformers, etc.	\$ 4,917.00	\$ 4,354.07	\$ 562.93	\$ 4,917.00	\$0 - Complete	\$ 562.93	\$ -	\$ -	
Intertek-ATI	Field Water Penetration Testing	\$ 2,250.00	\$ 1,737.00	\$ 513.00	\$ 2,250.00	\$0 - Complete	\$ -	\$ 128.25	\$ 384.75	\$ 384.75
Unitil	DHS/CTC Rebate on boilers	\$ (30,000.00)	\$ (23,160.00)	\$ (6,840.00)	\$ (30,000.00)	\$0 - Complete	\$ -	\$ (1,710.00)	\$ (5,130.00)	\$ (5,130.00)
Dell	(1) Server for HVAC (HS & CTE)	\$ 10,000.00	\$ 7,720.00	\$ 2,280.00	\$ 10,000.00	\$0 - Complete	\$ -	\$ 570.00	\$ 1,710.00	\$ 1,710.00
Optiv Security Inc.	Network Electronics (HS & CTE)	\$ 460,108.71	\$ 357,652.19	\$ 102,456.52	\$ 460,108.71	\$0 - Complete	\$ -	\$ 25,614.13	\$ 76,842.38	\$ 76,842.38
New England Fitness	FFE Purchases (HS)	\$ 134,168.00	\$ 134,168.00	\$ -	\$ 134,168.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
School Furnishings	FFE Purchases (HS \$115,614, \$4,057.60; CTE \$107,507.80)	\$ 227,181.90	\$ 119,670.40	\$ 107,511.50	\$ 227,181.90	\$0 - Complete	\$ -	\$ 26,877.88	\$ 80,633.63	\$ 80,633.63
WB Mason	FFE Purchases (HS \$171,122; CTE \$193,506; \$4,754.26)	\$ 369,382.26	\$ 171,122.00	\$ 197,738.56	\$ 368,860.56	\$ 521.70	\$ -	\$ 49,434.65	\$ 148,303.93	\$ 148,303.93
Creative Office Pavilion	FFE Purchases (HS \$872,204; CTE \$232,403.84)	\$ 1,104,589.37	\$ 872,203.53	\$ 232,385.84	\$ 1,104,589.37	\$0 - Complete	\$ -	\$ 58,096.46	\$ 174,289.38	\$ 174,289.38
Monitor Equipment CO.	FFE Purchases (HS)	\$ 8,684.38	\$ 8,684.38	\$ -	\$ 8,684.38	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Midwest Technology	FFE Purchases (CTE)	\$ 45,074.81	\$ -	\$ 45,074.81	\$ 45,074.81	\$0 - Complete	\$ -	\$ 11,268.70	\$ 33,806.11	\$ 33,806.11
Pocket Nurse Enterprises	FFE Purchases (CTE)	\$ 38,639.88	\$ -	\$ 38,639.88	\$ 38,639.88	\$0 - Complete	\$ -	\$ 9,659.97	\$ 28,979.91	\$ 28,979.91

		(A)	(B)	(C)	(D = B+C)	(E = A-D)		(F = C x 25%)	(G = C x 75%)	
		Contract Totals	HS Portion of Total Amount @ 77.2%	CTE Portion of Total Amount @ 22.8%	Total Expenditures To Date	HS & CTE Remaining Balance (Obligations)	District Share of CTE Portion @ 100%	District Share of CTE Portion @ 25%	(Invoiced through 5/31/2019, FINAL) State Share of CTE Portion @ 75%	State Funding Rec'd To Date COMPLETE
Vendor	Description of Services									
School Furnishings	FFE Purchases (HS \$27,816.31; CTE \$6,940)	\$ 34,756.31	\$ 27,816.31	\$ 6,940.00	\$ 34,756.31	\$0 - Complete	\$ -	\$ 1,735.00	\$ 5,205.00	\$ 5,205.00
Diamedical USA Equip.	FFE Purchases (CTE)	\$ 42,084.00	\$ -	\$ 42,084.00	\$ 42,084.00	\$0 - Complete	\$ -	\$ 10,521.00	\$ 31,563.00	\$ 31,563.00
Diamond Relocation, Inc.	Prof Moving Services (CTE: \$34,400; HS: \$80K, IRN: \$10K)	\$ 120,162.00	\$ 88,762.00	\$ 31,400.00	\$ 120,162.00	\$0 - Complete	\$ 5,790.00	\$ 1,265.00	\$ 24,345.00	\$ 24,345.00
Ockers Co.	CTE Chromebooks/Desktops, students/staff (CTE)	\$ 266,500.00	\$ -	\$ 266,500.00	\$ 266,500.00	\$0 - Complete	\$ -	\$ 66,625.00	\$ 199,875.00	\$ 199,875.00
Ockers Co.	Interactive Monitors (CTE)	\$ 96,293.00	\$ -	\$ 96,293.00	\$ 96,293.00	\$0 - Complete	\$ -	\$ 24,073.27	\$ 72,219.73	\$ 72,219.73
Robert H. Lord Co., Inc.	FFE Purchases (HS)	\$ 3,132.00	\$ 3,132.00	\$ -	\$ 3,132.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Collins Sports Medicine	FFE Purchases (HS)	\$ 9,027.00	\$ 9,027.00	\$ -	\$ 9,027.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Project Adventure, Inc.	Challenge Course Site Evaluation (HS FF&E)	\$ 550.00	\$ 550.00	\$ -	\$ 550.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Ockers Co.	Servers, labor & configuration (HS & CTE)	\$ 52,322.29	\$ 40,393.17	\$ 11,929.12	\$ 52,322.29	\$0 - Complete	\$ 2,938.47	\$ 2,247.66	\$ 6,742.99	\$ 6,742.99
Howard Systems, Inc.	DHS Fiber & Copper installation (Alt to HS)	\$ 9,440.00	\$ 9,440.00	\$ -	\$ 9,440.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Automotive Garage Tools	Move of CTE auto lifts to new HS (CTE)	\$ 5,110.00	\$ -	\$ 5,110.00	\$ 5,110.00	\$0 - Complete	\$ -	\$ 1,277.50	\$ 3,832.50	\$ 3,832.50
Telephone Network Tech	Patch cables for WAPs (HS & CTE)/AP Cabling for café, gym, audi	\$ 5,091.20	\$ 4,658.83	\$ 432.37	\$ 5,091.20	\$0 - Complete	\$ -	\$ 108.09	\$ 324.27	\$ 324.27
R.M.S. Electric, LLC	Install of (2) 20AMP, 208V outlets (HS Admin); Spraybooth wiring	\$ 28,533.70	\$ 7,850.42	\$ 20,683.28	\$ 28,533.70	\$0 - Complete	\$ -	\$ 5,170.83	\$ 15,512.46	\$ 15,512.46
Portland Pottery	Kiln move to new HS (HS)	\$ 214.00	\$ 214.00	\$ -	\$ 214.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
IRN Reuse	Surplus property removal from old HS (HS)	\$ 38,926.00	\$ 38,926.00	\$ -	\$ 38,926.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Airgas USA, LLC	Equipment for welding program (CTE)	\$ 13,960.00	\$ -	\$ 13,960.00	\$ 13,960.00	\$0 - Complete	\$ -	\$ 3,490.00	\$ 10,470.00	\$ 10,470.00
Amazon.com	Charging storage station for Chromebooks/laptops (HS)	\$ 1,936.38	\$ 1,936.38	\$ -	\$ 1,936.38	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Caruso Music, Inc.	Piano (HS)	\$ 10,812.00	\$ 10,812.00	\$ -	\$ 10,812.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Robert Half Technology	IT Temporary Technical Assistance (HS & CTE)	\$ 29,958.89	\$ 26,297.76	\$ 3,661.13	\$ 29,958.89	\$0 - Complete	\$ -	\$ 915.28	\$ 2,745.85	\$ 2,745.85
Jamar Autobody Supply	Parts for Auto Collision Lab (CTE)	\$ 5,404.57	\$ -	\$ 5,404.57	\$ 5,404.57	\$0 - Complete	\$ -	\$ 1,351.14	\$ 4,053.43	\$ 4,053.43
Staples Advantage	Miscellaneous HS IT Equipment (HS)	\$ 129,081.45	\$ 129,081.45	\$ -	\$ 129,081.45	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Ricci Lumber Co., Inc.	Lumber for CTC Electrical Program Lab (CTE)	\$ 1,301.41	\$ -	\$ 1,301.41	\$ 1,301.41	\$0 - Complete	\$ -	\$ 325.35	\$ 976.06	\$ 976.06
Apple	IT Equipment (HS)	\$ 81,780.35	\$ 81,780.35	\$ -	\$ 81,780.35	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
CDW Government	IT Equipment (HS)	\$ 46,228.00	\$ 46,228.00	\$ -	\$ 46,228.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
C&W Services	Custodial labor for detail cleaning at new high school (HS)	\$ 2,788.41	\$ 2,788.41	\$ -	\$ 2,788.41	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Shipyard Waste Solutions	Dumpster pickups for items at old DHS (HS)	\$ 9,623.60	\$ 9,623.60	\$ -	\$ 9,623.60	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Eversource Energy	Interconnection of DHS to the Eversource EDS for the solar project.	\$ 133,000.00	\$ 133,000.00	\$ -	\$ 133,000.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
JAMF Software	IT Equipment (HS) - \$700 orignal PO, voided 7/17 as not needed	\$ -	\$ -	\$ -	\$ -	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Staples Advantage	IT Equipment (HS)	\$ 24,211.50	\$ 24,211.50	\$ -	\$ 24,211.50	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
CDW Government	IT Equipment (HS)	\$ 14,223.00	\$ 14,223.00	\$ -	\$ 14,223.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Project Adventure, Inc.	Challenge Course Elements and Related Estimated Expenses	\$ 19,343.00	\$ 19,343.00	\$ -	\$ 19,343.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
To Be Determined	FFE Items for HS/CTC, approved by JBC 11/27/18; 4/16/19; 5/28/19; 8/6/19	\$ 2,000.00	\$ -	\$ -	\$ -	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -
School Furnishings	Library Shelving (part of \$70K approved by JBC 11/27/2018)	\$ 700.05	\$ 700.05	\$ -	\$ 700.05	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Dover Marine	Snowshoes/Jetsled for PE (part of \$70K approved by JBC 11/27/18)	\$ 4,079.98	\$ 4,079.98	\$ -	\$ 4,079.98	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Midwest Technology	Caster set for Greenlee cabinets in CTC (part of \$70K approved by JBC 11/27/2018)	\$ 600.00	\$ -	\$ 600.00	\$ 600.00	\$0 - Complete	\$ -	\$ 150.00	\$ 450.00	\$ 450.00
Glover Plumbing & Heating	Air line work at autobody class room (paint booth)	\$ 2,200.00	\$ -	\$ 2,200.00	\$ 2,200.00	\$0 - Complete	\$ -	\$ 550.00	\$ 1,650.00	\$ 1,650.00
Maple Flooring Manufacturir	Flooring inspection service for gymnasium	\$ 2,783.15	\$ 2,783.15	\$ -	\$ 2,783.15	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Dennison Cabinets	Desk tops (part of \$70K approved by JBC 11/27/2018)	\$ 1,530.00	\$ 1,530.00	\$ -	\$ 1,530.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Carolina Biological Supply	Science Equipment for DHS (part of \$55K approved 4/16/19)	\$ 12,647.61	\$ 12,647.61	\$ -	\$ 12,647.61	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Vernier Software & Technolo	Science Equip for DHS (part of \$55K appr 4/16/19 & \$13K on 8/6/19)	\$ 15,165.85	\$ 15,165.85	\$ -	\$ 15,165.85	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Flinn Scientific	Science Equipment for DHS (part of \$55K approved 4/16/19)	\$ 6,858.78	\$ 6,858.78	\$ -	\$ 6,858.78	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
VWR International	Science Equip for DHS (part of \$55K appr 4/16/19 & \$13K on 8/6/19)	\$ 24,615.26	\$ 23,208.02	\$ -	\$ 23,208.02	\$ 1,407.24	\$ -	\$ -	\$ -	\$ -
Home Depot	Science Equip for DHS (part of \$13K approved on 8/6/19)	\$ 2,500.00	\$ 1,191.63	\$ -	\$ 1,191.63	\$ 1,308.37	\$ -	\$ -	\$ -	\$ -
Amazon.com	Science Equip for DHS (part of \$13K approved on 8/6/19)	\$ 2,000.00	\$ 311.76	\$ -	\$ 311.76	\$ 1,688.24	\$ -	\$ -	\$ -	\$ -
School Furnishings	FFE for DHS (part of funding approved 5/28)	\$ 7,002.84	\$ 7,002.84		\$ 7,002.84	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Global Industrial	FFE for DHS (part of funding approved 5/28)	\$ 763.53	\$ 763.53	\$ -	\$ 763.53	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Dialmedical Equipment	FFE for CTC (part of funding approved 5/28)	\$ 2,785.00	\$ -	\$ 2,785.00	\$ 2,785.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
School Specialty	FFE for CTC (part of funding approved 5/28)	\$ 727.00	\$ -	\$ 727.00	\$ 727.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Creative Office Pavilion	FFE for DHS (part of funding approved 5/28)	\$ 51,685.84	\$ 51,685.84	\$ -	\$ 51,685.84	\$ -	\$ -	\$ -	\$ -	\$ -
Creative Office Pavilion	FFE for CTC (part of funding approved 5/28)	\$ 22,079.00	\$ -	\$ 22,079.00	\$ 22,079.00	\$ -	\$ -	\$ -	\$ -	\$ -
School Furnishings	FFE for CTC (part of funding approved 5/28)	\$ 7,572.85	\$ -	\$ 7,572.85	\$ 7,572.85	\$0 - Complete	\$ 7,572.85	\$ -	\$ -	\$ -
R.M.S. Electric, LLC	Service provided in Woodshop/Welding/Building/Cosmetology	\$ 10,941.04	\$ 10,941.04	\$ -	\$ 10,941.04	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Clean Harbors Environmental	Environmental Service Needs at DHS (removal of liquid/tank)	\$ 26,405.04	\$ 26,405.04	\$ -	\$ 26,405.04	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Eversource Energy	Disconnect & removal of light pole	\$ 822.08	\$ 822.08	\$ -	\$ 822.08	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Sprague Floor Covering	Flooring in Cosmetology (part of \$5K approved 8/6/19)	\$ 737.23	\$ -	\$ 737.23	\$ 737.23	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
School Furnishings	Reconfigure cosmetology classroom (part of \$5K approved 8/6/19)	\$ 3,276.00	\$ 3,276.00	\$ -	\$ 3,276.00	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
Hi-Way Safety Systems	Fire Line Painting Behind DHS, approved 9/17/2019	\$ 1,528.62	\$ 1,528.62	\$ -	\$ 1,528.62	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
To Be Determined	Placeholder for Softball Dugout (approved 10/15/2019)	\$ 40,000.00	\$ -	\$ -	\$ -	\$ 40,000.00	\$ -	\$ -	\$ -	\$ -
Airgas USA, LLC	Ventilation Adaptors for welding (approved 11/12/2019)	\$ 1,939.40	\$ 1,939.40	\$ -	\$ 1,939.40	\$ -	\$ -	\$ -	\$ -	\$ -

		(A)	(B)	(C)	(D = B+C)	(E = A-D)		(F = C x 25%)	(G = C x 75%)	State Funding Rec'd To Date COMPLETE
Vendor	Description of Services	Contract Totals	HS Portion of Total Amount @ 77.2%	CTE Portion of Total Amount @ 22.8%	Total Expenditures To Date	HS & CTE Remaining Balance (Obligations)	District Share of CTE Portion @ 100%	District Share of CTE Portion @ 25%	(Invoiced through 5/31/2019, FINAL) State Share of CTE Portion @ 75%	
To Be Determined	Griffin Electric, Courtyard doors (approved 11/12/2019)	\$ 10,000.00	\$ -	\$ -	\$ -	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -
R.P. Schifiliti Associates	Review of fire alarm & emergency comm system (RC appr 11/25)	\$ 5,000.00	\$ 3,482.54	\$ -	\$ 3,482.54	\$ 1,517.46	\$ -	\$ -	\$ -	\$ -
City of Dover, NH	Softball fields water meter-PC issued credit on CO190414	\$ 4,034.45	\$ 4,034.45	\$ -	\$ 4,034.45	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
HMFH	PSS#13-Add'l Civil out-of-scope construction support (Nobis)	\$ 21,795.76	\$ 21,795.76	\$ -	\$ 21,795.76	\$ -	\$ -	\$ -	\$ -	\$ -
USTA	DHS Rebate on build of tennis courts (SB approved 2/10/20)	\$ (50,000.00)	\$ (50,000.00)	\$ -	\$ (50,000.00)	\$0 - Complete	\$ -	\$ -	\$ -	\$ -
PSNH/dba Eversource	DHS/CTC Rebate on (HS & CTE)	\$ (100,000.00)	\$ (77,200.00)	\$ (22,800.00)	\$ (100,000.00)	\$0 - Complete	\$ -	\$ (5,700.00)	\$ (17,100.00)	\$ (17,100.00)
	Subtotal, Design, Geotech & Construction Services:	\$ 86,581,136.40	\$ 66,766,806.70	\$ 19,678,615.56	\$ 86,445,422.26	\$ 135,714.14	\$ 1,777,941.97	\$ 4,457,868.78	\$ 13,397,666.59	\$ 13,397,666.59
	Totals:	\$ 87,285,056.81	\$ 67,310,233.26	\$ 19,839,109.41	\$ 87,149,342.67	\$ 135,714.14	\$ 1,801,991.28	\$ 4,491,979.92	\$ 13,500,000.00	\$ 13,500,000.00
			Unexpended/Unencumbered Funds Remaining: \$ 337,699.19						Due From State:	\$ -

PC Construction - Guaranteed Maximum Price (GMP)		
Total Contract Sum (includes \$4,270,636 for Procurement and Early Work, 6/20/16-10/7/16)		\$71,643,000.00
Change Order #1, Approved 12/13/2016		
Proposal#190006R1 - Ledge Removal SMH-4 to SMH-2		\$6,200.00
Proposal#190012R1 - RFI-009 Organic Mat at Loading Dock		\$34,405.00
Proposal#190013R1 - Ledge Removal Force Main to SMH-2		\$1,705.00
Proposal#190014R1 - Ledge Removal SMH-2 to SMH-1		\$8,680.00
Proposal#190016R1 - Ledge Removal SMH-1 to Existing SMH		\$3,151.00
Total Change Order #1:		\$54,141.00
Change Order #2, Approved 1/24/2017		
Proposal#190010 - RFI-007 Fabric Under Roadway		\$3,705.00
Proposal#190021 - ASI-001 Catwalk Revisions		-\$1,657.00
Proposal#190022 - ASI-007 Loading Dock Footing Rev.		\$2,197.00
Proposal#190023 - ASI-006R Courtyard & Loading Dock Drainage Rev		\$15,015.00
Proposal#190025 - Organic Soil Removal Area B		\$2,559.00
Proposal#190027 - RFI-125 Road Subgrade Revisions		\$17,926.00
Proposal#190029 - Edge Strip Deletion Credit		-\$6,953.00
Proposal#190034 - ASI-016 Control Joint Addition		\$0.00
Total Change Order #2:		\$32,792.00
Change Order #3, Approved 2/15/2017		
Proposal#190020.1 Ledge Removal for Foundations & Utilities		\$185,297.00
Proposal#190026 RFI-099 Deleted RAP's at AE Line		-\$9,531.00
Proposal#190028R1 - ASI-12 Animal Science Power		\$0.00
Proposal#190031 - ASI-014 Kitchen Equipment Revisions		\$454,539.00
Proposal#190035 - ASI-020 Life Safety Switch		\$14,252.00
Proposal#190036 - PR-001 Slab Depression Deletion		-\$46,832.00
Proposal#190040 - ASI-023 Revised Grease Traps		-\$10,245.00
Propsoal#190047 - RFI-141R1 Fiber Reinforced Concrete		-\$22,212.00
Total Change Orders #3:		\$565,268.00
Change Order #4, Approved 3/21/2017		
Proposal#190030 ASI-013 Window Changes		\$0.00
Proposal#190033 ASI-017 Steel Additions & ASI-026		\$3,858.00
Proposal#190041 - ASI-024 Stair #2 Revisions		\$0.00
Proposal#190043R - ASI-027 Smoke Hatch Revisions		\$19,320.00
Proposal#190043R2 - ASI-027 Smoke Hatch Revisions		-\$2,533.00
Proposal#190044 - ASI-028 Brace at Column B2/BE.1		\$982.00
Proposal#190048 - AIS-029 Cardio/Weight Room Floor Revision		-\$1,520.00
Proposal#190053 - PR-003 Schulte Cove Base		-\$5,777.00
Proposal#190059 - ASI-032 and 037 Revised Brace Bays		\$1,597.00
Proposal#190062 - ASI-039 Bleacher Power		-\$4,605.00
Propsoal#190073 - ASI-041 Lockers in Building Construction		\$4,153.00
Total Change Orders #4:		\$15,475.00
Change Order #5, Approved 4/18/2017		
Proposal#190037 ASI-022 Elevator Roof Structure		\$0.00
Proposal#190038 ASI-21.1 Curtainwall Revisions		\$4,947.00
Proposal#190050 ASI-031/RFI 189-Eliminated Catwalk Steel Mesh Guard		-\$6,314.00
Proposal#190078 - Paint Booth Procurement		\$139,396.00
Total Change Orders #5:		\$138,029.00
Change Order #6, Approved 5/30/2017		
Proposal#190039R1 ASI-021.2 Revised Exterior Elevations		-\$2,569.00
Proposal#190046 - Delete Safety Cage at 230F Roof Ladder		-\$869.00
Proposal#190052R1 - ASI-21.5 Acid Neutralizer Tank		\$34,802.00
Proposal#190056R1 - RFI-190 Area E Ductwork Riser @ Stair #5		\$3,758.00
Proposal#190075 - RFI-257 Storage Room Duct Chase		\$914.00
Proposal#190081 RFI-262 Area C-Outdoor Storage Room Exterior Door L		\$2,056.00
Proposal#190086 - Sprinkler Coverage Above Town Square Clouds		\$8,732.00
Proposal#190094R1 - Corridor Locker Size Change		\$5,425.00
Proposal#190095 - PR-009 Gym Diffuser Covers		\$4,835.00
Total Change Orders #6:		\$57,084.00

Retainage Held To Date (PC Construction), App#1-#43:	\$ 58,942.00
--	--------------

Estimated Expenses for CTE Portion of Project	
PC Construction, CTE portion as of 8/17/2018	\$16,457,004.00
HMFH & Other Eligible Expenses at CTE 22.8%	\$1,592,050.58
Subtotal	\$18,049,054.58
FFE, Technology, Moving at 100% CTE	\$1,072,248.00
Subtotal	\$19,121,302.58
Round Pen	\$100,000.00
Subtotal	\$19,221,302.58
Estimate at 75%	\$14,415,976.94

Estimated Pending Budget Items, Updated Bi-Weekly with JBC.		
\$	195,476.39	Owners' Construction Contingency
\$	-	Placeholder for PC
\$	195,476.39	Total Owners' Contingency*
\$	-	Eversource Lighting Rebate (placeholder for the purchase of technology devices for the HS)
\$	-	Transfer from FFE per JBC approval on 8/7/2018 to purchase technology devices for the HS
\$	-	Specialized Acoustical Engineering (\$15K to contingency per JBC 2/5/19)
\$	44,018.57	DHS Furniture, Fixtures & Equipment (\$200,000 transferred out for technology devices)
\$	-	CTC Furniture
\$	100,000.00	CTC Equipment (Includes \$100,000 Round Pen)
\$	-	Technology Infrastructure (\$500,000 transferred to contingency, 1/22/19; \$29,707 to contigency, 8/6/19)
\$	-	CTC Classroom Technology
\$	-	Hazardous Materials Removal Monitoring
\$	-	Project Design Contingency (Bal \$2,591.62 transferred to Owners' Contingency, 5/2/19)
\$	-	Relocation Costs (moving/removal exp) (Balance of \$10,652.40 transferred to contingency, 1/22/19)
\$	339,494.96	Subtotal, Estimated Pending Budget Items and Contingency
\$	87,285,056.81	Actual Contracts To Date
\$	87,624,551.77	Subtotal, Estimated Pending Budget Items PLUS Actual Contracts
\$	87,622,756.00	Total Project Appropriation
\$	1,795.77	Estimated Unbudgeted Funds Remaining

Change Order #7, Approved 7/11/2017	
Proposal#190032R2-ASI-015 Underslab Piping Revisions	\$18,484.00
Proposal#190049 ASI-030 Primary Power Revisions	\$0.00
Proposal#190054 ASI-034 Gym Bubbler	\$0.00
Proposal#190057 ASI-036R Kitchen Sink Waste Revisions	\$0.00
Proposal#190070 ASI-021.10 Revised Edge of Slab Drawings	\$0.00
Proposal#190092 ASI-058 Auto Tech Lift Revision	\$2,209.00
Proposal#190104R2 PR-010 Guidance Suite Revisions	\$1,964.00
Proposal#190107 RFI-407 Life Skills Exhaust Hood	-\$7,225.00
Proposal#190114 PR-012 Dust Collector Electrical Changes	\$972.00
Proposal#190116 ASI-075 Exhaust Duct Additions in Bathroom 203 A/B	\$2,738.00
Proposal#190117R1 PR-013 Cosmetology Lockers	\$2,282.00
Total Change Orders #7:	\$21,424.00

Change Order #8, Approved 8/22/2017	
Proposal#190061 ASI-038 Auto Coll CMU Office "Roof"	-\$822.00
Proposal#190063R1 ASI-021.7 FF&E Drawings	-\$45,177.00
Proposal#190069R2 ASI-021.9 Revised Electrical Drawings	\$46,368.00
Proposal#190077 ASI-044 Power to Autotech Air Cleaners	\$10,494.00
Proposal#190082 ASI-049 Mezzanine Guard Rail	-\$258.00
Proposal#190083R3 RFI-198 Catwalk Access Ladder Revisions	-\$138.00
Proposal#190084 ASI-047 CUH Revisions	\$2,711.00
Proposal#190087 ASI-052 Life Science Displacement Diffusers	\$1,262.00
Proposal#190088R1 ASI-045 Curtainwall 42	\$2,285.00
Proposal#190090 ASI-054 CW & Auditorium Elevation Updates	\$4,098.00
Proposal#190096 ASI-060 Cosmetology Electrical Revisions	\$0.00
Proposal#190101 RFI-359 Powered Door Operators	\$5,203.00
Proposal#190102 ASI-066 Borrowed Light in Facilities	-\$468.00
Proposal#190105 RFI-316 Trap Primer	\$1,060.00
Proposal#190111R1 ASI-073 Library Borrowed Light Changes	-\$3,493.00
Proposal#190135 RFI-469 Unit Heater 12	\$537.00
Proposal#190136 RFI-480 Duct Diffuser 231A	-\$46.00
Proposal#190138 RFI-479 SPED CR 222 Displacement Diffuser	\$2,585.00
Total Change Orders #8:	\$26,201.00

Change Order #9, Approved 10/3/2017	
Proposal#190020.2 Ledge Removal for Foundations and Utilities Part 2	\$189,382.00
Proposal#190058 ASI-21.6R Door Schedule Revisions	-\$152.00
Proposal#190060R1 ASI-21.4 Revised Floor Plans	\$22,776.00
Proposal#190065 ASI-021.3 Civil and Landscaping Revisions	\$18,387.00
Proposal#190089R2 RFI-261R1 Dishwasher Exhaust Duct Revisions	\$5,080.00
Proposal#190103R1 ASI-065 Electrical Coordination	\$7,485.00
Proposal#190115 ASI-074 Ductless Unit Electrical Changes	-\$5,238.00
Proposal#190124 ASI-081 Panel PL137A Deletion	-\$337.00
Proposal#190128 PR-010 Electrical Changes	\$498.00
Proposal#190137 RFI-470 LC 2-2 Wall Diffuser	\$609.00
Proposal#190148 PR-015 Deletion of Millwork Cubbies	-\$4,256.00
Total Change Orders #9	\$234,234.00

Change Order #10, Approved 11/29/2017	
Proposal#190066R3 ASI-043R Compactor Revisions	\$32,901.00
Proposal#190120 ASI-077 Revisions to Drawing E3.1	\$0.00
Proposal#190123R1 PR-014 Forum Stair Coatings	-\$1,137.00
Proposal#190125 RFI-427R1 Radiant Panel Modifications	\$1,910.00
Proposal#190130R2 Additional ductwork per RFI281	\$4,593.00
Proposal#190134R1 RFI-474R1 Salon 106 Supply Air	\$5,791.00
Proposal#190157 ASI-093 Paint Booth Electrical Revisions	-\$606.00
Proposal#190159 RFI-499R1 Kiln Revisions	\$2,444.00
Proposal#190171 RFI-543 Aluminum Door Hardware Questions	-\$1,605.00
Proposal#190176 RFI-536 Curtainwall Flashing Revisions	-\$24,410.00
Proposal#190179 RFI561 Duct Diffuser Small CR 234	\$522.00
Proposal#190182 PR-020 Sidewalk Widening	\$2,894.00
Total Change Orders #10	\$23,297.00

Change Order #11, Approved 1/9/2018	
Proposal#190020.3 Ledge Removal for Utilities, Part 3	\$43,234.00
Proposal#190091R1 ASI-056 Door 040.3 Update	\$808.00
Proposal#190118 ASI-076 Added Rebar for New Auto-Tech Lift	\$0.00
Proposal#190129R2 ASI-085R2 Column Enclosure at AC/B15.8	\$1,163.00
Proposal#190140 ASI-088 Deleted Borrowed Lights Construction CR	-\$622.00
Proposal#190146 ASI-45.1 CW 42 Power	\$688.00
Proposal#190147 RFI-483 Deletion of Recessed Can Lighting	-\$337.00
Proposal#190149.3 PR-016 Corridor Benches Wood Veneer	-\$6,419.00
Proposal#190160R1 RFI-522 EX-S4-1.1 Operator	\$1,239.00
Proposal#190163 PR-19 Microphone in Town Square	\$2,046.00
Proposal#190164 RFI-521 Emergency Fixtures at Stair 1 Roof Access	\$5,334.00
Proposal#190170 ASI-097 Business Classroom Floor Boxes	\$1,732.00
Proposal#190173 ASI-094R LRC Fixtures	\$0.00
Proposal#190187 Football Field Feeder Location	\$8,016.00
Total Change Orders #11	\$56,882.00

Change Order #12, Approved 2/6/2018	
Proposal#190045 Toilet Accessories Revisions	-\$4,120.00
Proposal#190072 ASI-040 Mock-up Wall Updates	-\$991.00
Proposal#190093R1 PR-027 Loop Road & Baseball Field Drainage Impi	\$12,074.00
Proposal#190126 ASI-070 Wall Panel Changes	\$0.00
Proposal#190127R2 RFI-429 Auditorium Handrail Addition, ASI-102	\$21,994.00
Proposal#190132 Courtyard Speaker Strobes	\$3,421.00
Proposal#190143 Additional Exterior Sign Characters	\$0.00
Proposal#190153 ASI 21-14 Vertical Grab Bar Addition	\$2,226.00
Proposal#190155 RFI-384R1 Telecom Ductbank Revisions	\$16,730.00
Proposal#190165 ASI-095 Wall Panels	\$0.00
Proposal#190167 ASI-096 Stair 1 Security Gate Additions	\$775.00
Proposal#190168 RFI-545 Stair One Roof Level Lighting	\$3,003.00
Proposal#190204 RFI-577R1 Courtyard Canopy Light Fixture	\$2,487.00
Proposal#190208 PR-029 Refrigerator Elimination	-\$3,800.00
Proposal#190211 PR-030 Filzfelt Panel Substitution	-\$10,636.00
Total Change Orders #12:	\$43,163.00

Change Order #13, Approved 2/20/2018	
Proposal#190185 PR-022 Power to Motorized Shades	
Proposal#190220 Animal Science Building Allowance Adjustment	
Total Change Orders #13	\$1,974.00
Change Order #14, Approved 3/20/2018	
Proposal#190113R2 ASI-083 Hardware and Security Coordination	\$2,434.00
Proposal#190158 ASI-091 230F Revisions	\$2,103.00
Proposal#190183 Framing Modifications for Bleacher Support	\$12,580.00
Proposal#190199.2 PR-025 Exterior Signage Modifications 8x12 vinyl	\$1,974.00
Proposal#190202R1 RFI-639 Additional Lighting in Sun Room 208A	\$2,163.00
Proposal#190207 RFI-648 Exterior Wall Motion Sensors	-\$433.00
Proposal#190210 RFI-622 Paint Auditorium Ceiling Suspension System	\$620.00
Proposal#190212 PR-031 Teacher Planning Layout Changes	\$8,396.00
Proposal#190214 ASI-106 Exit Signage Revisions	\$1,857.00
Proposal#190218 RFI-677 Room 134 North Wall	\$3,821.00
Proposal#190219 Floor Finishes to Replace Recessed Mats	\$4,291.00
Proposal#190221 PR-032 Dishwasher Addition Training 034A	\$2,121.00
Proposal#190222 ASI-108 Canop6y Lights Main Entrance Revised	\$722.00
Proposal#190223 ASI-107 Power Additions Guidance	\$623.00
Proposal#190226 RFI-681 Sprinkler Backflow Preventer	\$1,292.00
Total Change Orders #14	\$45,364.00

Change Order #15, Approved 5/1/2018	
Proposal#190067 aSI-021.8 Updated Ceiling Plans	\$956.00
Proposal#190151 ASI-089 Updated Cosmetology Lab Electrical Layout	\$5,622.00
Proposal#190154 ASI-090 TVE Elevations	\$4,594.00
Proposal#190190 ASI-103 Weight Room Columns	\$3,246.00
Proposal#190213 Town Square Exposed Steel Prep and Prime	\$6,220.00
Proposal#190216 RFI-420R1 Condensate Insulation Update	-\$2,128.00
Proposal#190229R1 ASI-109 Floor Finish Changes	-\$1,459.00
Proposal#190230 RFI-674 Hydronic Heating Zone 113B	\$1,842.00
Proposal#190236 ASI-111 Revised Gymnasium Line Layout	\$3,100.00
Proposal#190237 RFI-704 Volleyball Insert Modifications	\$2,016.00
Proposal#190240 PR-037 Intercom Revisions	\$6,288.00
Proposal#190242 Opaque Glass Addition at Trophy Case	\$2,682.00
Proposal#190247 Wood Athletic Floor Additional Letters and Staining	\$5,374.00
Total Change Orders #15	\$38,353.00

Change Order #16, Approved 6/26/2018	
Proposal#19009R1-RFI-291 Parking at North Side of Gymnasium	\$5,710.00
Proposal#190156 RFI-506 Washer/Dryer Power and Venting	\$6,110.00
Proposal#190231 PR-035 Revisions to Bio-Med Prep 233C	\$4,969.00
Proposal#190244 ASI-113 Knox Box	\$7,242.00
Proposal#190248 RFI-722 Under Cabinet Lighting Circuits	\$4,973.00
Proposal#190252 RFI-733 Dryer Vent Booster Fans	\$3,958.00
Proposal#190253 ASI-115 Stair 4 Light Fixture	\$410.00
Proposal#190261 RFI-735 Fume Hood Pressure Regulators	\$4,179.00
Proposal#190266 RFI-752 Outdoor Storage Door Closers	\$964.00
Proposal#191001 ASB ASI-003 Sprinkler Coverage under Mezzanine	\$1,592.00
Proposal#191003 ASB Tub Room Flooring Finish	-\$567.00
Total Change Orders #16	\$39,540.00

Change Order #17, Approved 8/15/2018	
Proposal#190225.1 PR-033R Sports Storage Rooms 037. 038 & 039	\$9,901.00
Proposal#190246 2x8 Ceiling tile Manufacturer	\$4,502.00
Proposal#190259R1 PR-40 Catwalk Railing	\$29,978.00
Proposal#190271R1 PR-43 AV Rack 033B	\$3,385.00
Proposal#190285 ASI-121 Forum Stair Railing Revisions	\$17,443.00
Total Change Orders #17	\$65,209.00

Change Order #18, Approved 9/4/2018	
Proposal#190181 ASI-101 Added Facilities Doors	\$6,699.00
Proposal#190188 ASI-095R & RFI-604 Auditorium Runtal Relocation	\$1,138.00
Proposal#190206R1 RFI-652 Wall Finish at Deleted WP-1 Panels	-\$3,493.00
Proposal#190215.1 Climbing Wall Allowance Adjustment	\$11,540.00
Proposal#190231.1 PR-35 Bio Med Casework Credit	-\$635.00
Proposal#190234 RFI-691 Relocated CTC Equipment	\$1,382.00
Proposal#190263 RFI-756 Rain Leader Enclosures in Stairwells	\$2,892.00
Proposal#190268 RFI-755 Cementitious FP Column Protection	\$2,259.00
Proposal#190277 RFI-772 Additional Speaker Strobes & Pull Stations	\$7,750.00
Proposal#190282 Additional Exterior Doors	\$13,154.00
Proposal#191008 ASB Exit Signage	\$1,454.00
Total Change Orders #18	\$44,140.00

Change Order #19, Approved 11/13/2018	
Proposal#190145R1 RFI-484 Water Supply to Wash Bay	\$1,153.00
Proposal#190269 RFI-745 Accessories in Fire Rated Walls	\$7,574.00
Proposal#190274 RFI-762 Kitchen Equipment Power, Item 68	\$2,024.00
Proposal#190276 ASI-120 GFCI Receptacles Training Room	\$523.00
Proposal#190278 RFI-775 Outlets for Existing Grab n Gos	\$2,293.00
Proposal#190283 RFI-780 Compresed Air to Auto Lifts	\$2,983.00
Proposal#190287 RFI-781 Wood Working Devices	\$12,813.00
Proposal#190290 PR-44 Marketing Casework	\$857.00
Proposal#190291R1 PR-045 Gym Scorer's Table	\$353.00
Proposal#190295R1 ASI-127 Striping at Loading Dock	\$918.00
Proposal#190296 ASI-128 Room 206 Door Swing Changes	\$1,612.00
Proposal#190304 PR-47 Benches in Athletics	\$6,024.00
Proposal#190310 ASI-139 Tire Changer Compressed Air	\$1,535.00
Proposal#190320 PR-51 Accent Paint 036 & 036C	\$1,019.00
Proposal#190325 Regrade at Generator	\$1,331.00
Proposal#191005 Fire Alarm Department Review	\$2,027.00
Total Change Orders #19	\$45,039.00
Change Order #20, Approved 12/11/2018	
Proposal#190178 RFI567-Exposed Columns and Wind Bracing	\$596.00
Proposal#190212.1 PR-031 R2 Teacher Planning Revisions	\$1,850.00
Proposal#190249 RFI-735 Fume Hood Openings	\$6,252.00
Proposal#190255 Alumni Drive Utility Ledge Removal	\$1,085.00
Proposal#190258 LRC Fixture Modifications	\$700.00
Proposal#190270R2 PR-042 Intercom Call Switch	\$31,863.00
Proposal#190293 PR-046 CO-2.3 Operation	\$2,266.00
Proposal#190326 ASBRFI-012 Drainage Revisions	\$3,541.00
Total Change Orders #20	\$48,153.00
Change Order #21, Approved 1/22/2019	
Proposal#190133 RFI-462 Bellamy/Alumni Catch basin	\$10,305.00
Proposal#190142 ASI-084 Fume Hood and Gas Changes	-\$54,868.00
Proposal#190297 ASI-129 Relocate TVE & TVC Outlets	\$2,323.00
Proposal#190317 RFI-798 Power to Airmax Filtrraction Units	\$1,501.00
Proposal#190330 RFI-804 Welding Exhaust Fan Switch	\$796.00
Proposal#190333 GFCI Breakers in Building Construction	\$1,489.00
Proposal#191018 ASI-ASB009 Remove Exit Signs in ASB	\$310.00
Total Change Orders #21	-\$38,144.00
Change Order #22, Approved 2/19/2019	
Proposal#190134.1 RFI-474 Salon 106 Supply Air Add'l Scope	\$13,568.00
Proposal#190196R1 PR-023 Add'l Auditorium Ramp Lighting	\$20,398.00
Proposal#190288R1 ASI-122 HV-4 Auto Collision Air Changes	\$29,033.00
Proposal#1900292 RFI-790 Bldg E Wall Ratings	\$12,689.00
Proposal#190314 Kitchen Plumbing Adds	\$2,541.00
Proposal#191004 Credit for deletion of fire ext monitors at An Sci	-\$422.00
Total Change Orders #22	\$77,807.00
Change Order #23, Approved 3/19/2019	
Proposal#190191R1 RFI-616 Heat Trace Power	\$688.50
Proposal#190078.1 Paint Booth Add'l Scope	\$69,567.00
Proposal#190085 ASIO50 Auto Collision Slab Depression	\$10,355.00
Proposal#190097 RFI-341 Cardio/Weight Room Ceiling	\$2,611.00
Proposal#190122R1 ASI-21.13 Plumbing Rev	\$61,892.00
Proposal#190131 RFI-338 Pipe Expansion Joints	\$150,999.00
Proposal#190166R1 RFI-552 Auto Area Unit Heater	\$24,838.00
Proposal#190232 ASI-21.4 Add'l Training Room Work	\$2,772.00
Proposal#190233 Split AC Value Eng Credit Recovery	\$20,667.00
Proposal#190241.1 ASI-112 CTC Entrance	\$5,730.00
Proposal#190264R1 RFI-747 Stair#2 Wind Brace Fireproofing	\$4,282.00
Proposal#190272 Caulk Reveal at TS Knee Wall Cap	\$373.00
Proposal#190316R1 ASI-008 Pave Path Between ASB & Shed	\$19,939.00
Total Change Orders #23	\$374,713.50
Change Order #24, Approved 4/2/2019	
Proposal#190121R2 ASI-078 Water Heater Intake and Exhaust	\$6,755.00
Proposal#190144R1 RFI-456 Staff Dining 204 Duct Diffuser	\$1,384.00
Proposal#190186 RFU-601 Fume Hood Plumbing Sci. Prep 235A	\$6,704.00
Proposal#190192R1 RI-617 Courtyard Irrigation Feed	\$7,006.00
Proposal#190195.1 RFI-623 DCU Condensate Drain Revisions	\$2,180.00
Proposal#190224 RFI-672 Unit Heater 11 Piping	\$1,467.00
Proposal#190238R1 RFI-715 Additional Fire Dampers	\$3,569.00
Proposal#190250 Revised Stairwell Electrical Pathway	\$23,203.00
Proposal#190251 RFI-732 VAV Discrepancies	\$3,785.00
Proposal#190281 RFI-777 Dishwasher Power Supply	\$345.00
Proposal#190289 Caulk Accessories at Tile Walnscot	\$1,405.00

Change Order #24, Approved 4/2/2019, Cont'd	
Proposal#190294 ASI-125 Emergency Lighting In Cooler	\$2,304.00
Proposal#190302 Single Exterior Door Width Changes	\$35,636.00
Proposal#190335 ASI-143 Paging Blue Lights in Cosmetology	\$3,651.00
Proposal#191013 AS Barn Wiring Modifications	\$23,222.00
Total Change Orders #24	\$122,616.00
Change Order #25, Approved 4/16/2019	
Proposal#190306 PR-49 Auto Tech Wheel & Tire	\$1,941.00
Proposal#190341 ASI-145 Lighting in Courtyard	\$1,338.00
Proposal#190175R2 ASI-099R4 Dishwashers in Prep Rooms	\$4,607.00
Proposal#191014R1 Recessed Lighting	\$6,419.00
Total Change Orders #25	\$14,305.00
Change Order #26, Approved 5/14/2019	
Proposal#190308 ASI-137 Feed for Wheel Balancer	\$575.00
Proposal#190313R1 PR-50 Rooms 231 & 232 MBx	\$1,083.00
Proposal#190343 ASI-146 Fence at Courtyard Retaining Wall	\$2,413.00
Proposal#190354 BMS System Database Rebuild	\$4,761.00
Proposal#191010 ASI-AS006 Spray Foam Ignition Barrier	\$18,190.00
Proposal#191012 Relcoated Water Fountains	\$1,127.00
Proposal#191017 AS Lights-Out Test Clarification	\$1,583.00
Total Change Orders #26	\$29,732.00
Change Order #27, Approved 6/26/2019	
Proposal#190052.1 ASI-21.5 Acid Neutralization Tank	\$640.00
Proposal#190071R1 Baseball Batting Cage Revisions	\$19,154.00
Proposal#190097.1 RFI-341 Cardio/Weight Room Ceiling Revisions	\$7,406.00
Proposal#190241.2 ASI-112 CTC Entrance	\$1,638.00
Proposal#190256 Football Scoreboard Permanent Power	\$10,812.00
Proposal#190264 RFI-747 Stair #2 Wind Brace Fireproofing - Metro Costs	\$9,002.00
Proposal#190273 RFI-763 CH1 Freeze Protectoin Heater	\$418.50
Proposal#190364 PR-71 Additional Graphics	\$3,146.00
Proposal#190367 Turf Field Credit	-\$755,717.00
Proposal#190368 Additional Tennis Courts	\$102,269.00
Proposal#190373 PR-76 Panic Bars at Fence Gates	\$2,330.00
Proposal#190379 Gallery #2 and Catch Basin Ledge Removal	\$79,099.00
Total Change Orders #27	-\$519,802.50
Change Order #28, Approved 7/23/2019	
Proposal#190080R4 ASI-21.11R FEC Locations	\$37,307.00
Proposal#190098 ASI-061 Alt PE Wall Configuration Upate	\$2,055.00
Proposal#190151.1 Marker Board Reconciliation	\$3,706.00
Proposal#190180R1 RFI-572R1 Safety Shower and Mixing Valves	\$2,833.00
Proposal#190200 RFI-633 Soffit Outside 127B	\$786.00
Proposal#190217 Town Square Ceiling Paint Revisions	\$9,020.00
Proposal#190260 RFI-742 Additional Borrowed Lights	\$2,367.50
Proposal#190286 Electrical Changes - Design/Code Requirements	\$27,171.00
Proposal#190301 RFI-701 Radiant Heat Balancing Valves	\$5,662.50
Proposal#190311 ASI-133 Dust Collection FA Connectoin	\$3,353.00
Proposal#190321 PR-052 Water Distillers	\$17,230.50
Proposal#190322 PR-053 Mat Hoist	\$6,865.00
Proposal#190340 PR-59 Wet Area Training Room	\$12,962.00
Proposal#190353 PR-62 CTC Sinks	\$20,921.00
Proposal#190364.1 PR-71 Additional Graphics (welding)	\$1,621.75
Proposal#190369 RFI-690R1 Additional Duct Smoke and Fire Dampers	\$16,805.00
Proposal#190371 RFI-827 Entry Plaza Illuminated Handrails	\$6,086.00
Proposal#190375 PR-79 Fire Alarm Additional Scope	\$26,675.00
Proposal#190378 PR-90 Drainage at Athletic Fields	\$420,751.00
Proposal#190381 Irrigation Sleeve at Front Entrance	\$1,538.00
Proposal#190383 Unsuitable Material Teacher's Parking Lot	\$20,299.00
Proposal#190384 Trough Excavation Backfill	\$4,303.00
Proposal#190385 Fabric Installation at Senior Parking Lot	\$6,119.00
Proposal#190387 PR-82 Auto Collision Electrical Panel Protection	\$1,170.00
Proposal#190393 PR-89 Tennis Court Revisions	\$20,532.00
Proposal#190395 Fabric Installation at Tennis Courts	\$15,407.00
Proposal#191020 RFI-807 Barn EBU Fixtures	\$3,275.00
Proposal#191021 RFI-825 Animal Science Balancing	\$868.00
Total Change Orders #28	\$697,689.25
Change Order #29, Approved 8/6/2019	
Proposal#190305 PR-48R Auto Collision Wash Bay	\$25,322.00
Proposal#190361 PR-67 Softball Field Revisions	\$19,595.00
Proposal#190396 Dugout Pad Revisions	\$4,073.00
Proposal#190397 Dugout Conduit at Softball Fields	\$8,174.00
Total Change Orders #29	\$57,164.00

Change Order #30, Approved 9/17/2019	
Proposal#190341.1 ASI 145R Courtyard Lighting	\$1,840.00
Proposal#190350 PR-77 Paint Booth Dampers	\$9,623.00
Proposal#190351 PR-73 Science Lab Table Power	\$10,914.00
Proposal#190362 Sprinkler revisions	\$4,683.00
Proposal#190374.1 PR-78 Kitchen Exhaust Fans	\$24,591.00
Proposal#190388 PR-83 Emergency Shower	\$9,999.00
Total Change Orders #30	\$61,650.00
Change Order #31, Approved 9/17/2019	
Proposal #190377 ASI 45.1 Training Room 034A-Access Control Hardw	\$4,484.00
Proposal#190399 RFI 853-Add'l Concrete Sidewalk to N. Southball Fiel	\$673.00
Proposal#190404 RFI 856 Parking Lot Pavement Clarification	\$1,999.89
Proposal#190409 PR-95 Irrigation Controller & Devices	-\$1,576.00
Proposal#190411 HEA Add'l Cost (credit)	-\$12,404.00
Total Change Orders #31	-\$6,823.11
Change Order #32, Approved 10/1/2019	
Proposal#190382.2 PR-92.1 HS Entry Plantings	-\$711.00
Proposal#190400 Teacher Parking Lot Repairs	\$57,457.00
Proposal#190412 PR-96 Decorative Sandblasting at Courtyard	-\$4,519.00
Proposal#190414 Irrigation Water Meter Credit	-\$4,088.15
Total Change Orders #32	\$48,138.85
Change Order #33, Approved 10/15/2019	
Proposal#190388.1 PR-83 Emergency Shower 14D & 237	-\$4,671.70
Proposal#190402.1 Infield Mix Topdressing Material Credit & Add'l Inl	\$27,319.32
Proposal#190413 Add'l Steel Fire Proofing per IS	\$3,564.25
Total Change Orders #33	\$26,211.87
Change Order #34, Approved 10/29/2019	
Proposal#190060.1R1 ASI-21.4 Revised Floor Plans Firestopping	\$27,633.00
Proposal#190198.1 Misc Drywall Revisions	\$3,926.00
Proposal#190356R1 PR-68 Dugout Revisions	-\$57,898.00
Proposal#190366 ASI-141 Auditorium Aisle Lights	\$2,405.14
Proposal#190394.1 Relocate Basketball Hoops	\$3,451.00
Proposal#190398 Liquid Asphalt Escalation	\$35,756.04
Proposal#190401.1 RFI844 Softball Control Credit	-\$1,419.00
Proposal#190415 PR-94 Civil/Landscape Credits	-\$2,989.50
Proposal#190418 Athletic Field Lines (credit)	-\$1,424.00
Total Change Orders #34	\$9,440.68
Change Order #36, Approved 11/12/2019	
Proposal#190361.1 PR-67 Softball Field Revisions	\$3,038.00
Proposal#190416 ASI-013 Animal Science Building, Relocate Cord Ree	\$1,580.58
Proposal#190422 PR-91 Flush Granite Curbs	-\$156.90
Proposal#190423 Phase II-Substantial Completion Time Extension	\$0.00
Total Change Orders #36	\$4,461.68
Change Order #38, Approved 2/18/2020	
Proposal#190231.1 PR-035 Revisions to Bio-Med Prep 233C	-\$1,014.00
Proposal#190425.1 Main entrance canopy & CTC entrance canopy	-\$1,014.00
Total Change Orders #36	-\$2,028.00
Total OWNER'S Change Orders Approved to Date	\$3,108,023.22
New Contract Sum Including Approved Change Orders	\$74,751,023.22
Pending Owner's Change	
Proposal#191023 ASB Bodine Back-Up and Exit Sign, approved 6/11	\$1,026.00
Pending Owner's Change	\$1,026.00