

CHANGE ORDER

- | | | |
|--|-------------------------------------|---|
| <input checked="" type="checkbox"/> Owner | <input type="checkbox"/> Civil | <input type="checkbox"/> FF&E |
| <input checked="" type="checkbox"/> Architect | <input type="checkbox"/> Landscape | <input type="checkbox"/> Sustainability |
| <input checked="" type="checkbox"/> Contractor | <input type="checkbox"/> Geotech | <input type="checkbox"/> Acoustics |
| <input checked="" type="checkbox"/> O.P.M | <input type="checkbox"/> Structural | <input type="checkbox"/> Other |
| <input type="checkbox"/> CX Agent | <input type="checkbox"/> MEP-FP | <input type="checkbox"/> Other |



Project Name: **Haverhill Consentino Middle School** CO No. **06**

Architect's Project No. **21-0818**

Owner: **City of Haverhill** Architect: **DORE + WHITTIER**
4 Summer Street **260 Merrimac St, Bldg 7,**
Haverhill, MA 01830 **Newburyport, MA 01950**

To: **Brait Builders Corporation** Issue Date **1/2/2025**
57 Rockwood Road Contract Date: **4/1/2024**
Marshfield, MA 02050

Attention: **TJ Dahill**

See attached list of 6 item(s) for a total of **\$25,636.92**

Not valid until signed by both the Owner and Architect.

Signature of the Contractor indicates his agreement herewith, including any adjustment in the Contract Sum or Contract Time.

The original Contract Sum was **\$113,750,000.00**

Net change by previously authorized Change Orders..... **\$54,536.64**

The Contract Sum prior to this Change Order was..... **\$113,804,536.64**

The Contract Sum will be **INCREASED** by this Change Order **\$25,636.92**

The new Contract Sum including this Change Order will be **\$113,830,173.56**

The Contract Time will be changed by..... **(0) days**

The Date of Substantial Completion as of the date of this Change Order therefore is..... **Friday, April 30, 2027**

AUTHORIZED:

ARCHITECT:

DORE + WHITTIER
260 Merrimac St, Bldg 7, Newburyport,
MA 01950

OWNER:

Mayor Melinda E Barrett
4 Summer St Suite 100
Haverhill, MA 01830

CONTRACTOR:

Brait Builders Corporation
57 Rockwood Road
Marshfield, MA 02050

BY: _____

Date: _____

BY: _____

Date: _____

Name: **TJ Dahill** 

Title: **Project Manager**

Date: **January 13, 2025**

Certification of Appropriation under M.G.L. c44, s31C:

Adequate funding in an amount sufficient to cover the total cost of this
Change Order is available

CCD / PR / PCO #	Description	Amount
PCO 012	Card Readers	(\$ 6,137.87)
PCO 025 R2	BFA Sequence 1-8	\$ 3,152.48
PCO 026 R1	BFA Sequence 9-16	\$ 3,765.23
PCO 027 R1	BFA Sequence 7-24	\$ 10,278.24
PCO 034 R1	EF Duct Chase	\$10,255.86
PCO 048	Radiant Panel Piping	\$4,322.98
Total		\$25,636.92

Copies of supporting documentation for each item listed above is attached following.

PCO REVIEW FORM

Project Name: **Haverhill Consentino Middle School**

PCO No.



Architect's Project No. **21-0818**

revised cover by D+W

Subject: **Card Readers – PR-13 RFI 0173**

PCO Issue Date:

2024.10.15

PCO Reviewed:

2024.10.22

revised 2024.12.20

The following is a summary of the Design Team review of the above referenced Proposed Change Order (PCO). Refer to summary below *and* attached comments. Acceptance of this PCO – or partial acceptance – shall not constitute a change to the construction contract or a directive to proceed with the work. PCO review is only a recommendation to the Owner regarding the validity and cost of the proposed PCO. Final approval shall be by the Owner per contract.

CATEGORY					
Elective / Owner		Town/AHJ/Other		Unforeseen	
Design	X	Other		GMP Expenditure	

PCO shall be reviewed by each consultant with relevant work included:

Reviewed	Revise	Rejected	Consultant:	Reviewer:	Comments:
X			Architectural:	T. King / M. Rogers	Following a review and clarification by the contractor (as requested with the previous submission of this PCO review) D+W finds amount to be fair and reasonable
			Site/Civil:		
			Traffic:		
			Geotechnical:		
			Landscape:		
			Wetlands:		
			Haz Materials:		
			Structural:		
			Acoustical:		
			Foodservice:		
			Fire Protection:		
			Plumbing:		
			HVAC:		
			Electrical:		
			Lighting:		
			Telecomm:		
			Building Security:		
			Audio-Visual:		
			Theatrical:		
			Door Hardware:		

Michele Barbaro-Rogers

Michele Barbaro-Rogers

Digitally signed by Michele
Barbaro-Rogers
DN: C=US,
E=mrogers@doreandwhittier.com,
CN=Michele Barbaro-Rogers
Reason: I have reviewed this
document
Date: 2024.12.20 11:07:26 -05'00'

X	Design Team Recommends Approval
	Design Team Does Not Recommend Approval

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield, MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER**No. CMS-012****TITLE: PR-13 RFI 073 Card Readers****DATE: 10/15/2024****PROJECT: Dr. Albert B. Consentino Middle
School****JOB: CSM-2024****TO: City of Haverhill
685 Washington Street
Haverhill, MA****CONTRACT NO:****DESCRIPTION OF CHANGE**

Costs associated with the attached for PR-13 RFI 073 Card Readers.

Item	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	WJGEI Proposal#7	1	LS	-\$6,137.87		\$0.00	-\$6,137.87
2	Brait - OH&P - 0%	0	%	-\$6,137.87		\$0.00	\$0.00
3	Brait - Bond - 0%	0	%	-\$6,137.87		\$0.00	\$0.00

Lump Sum: -\$6,137.87**Total: -\$6,137.87****ACCEPTED: Dore & Whittier****By: SEE COVER SHEET****Date:****ACCEPTED: City of Haverhill****By:****Date:**

Stephen Dorrance

Brait Builders**By:****Date:**

T.J. Dahill

10-15-24**ACCEPTED: Owners Project Manager****By:****Date:**

Christina Mulligan

1/2/24

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield , MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER
No. CMS-012

TITLE: PR-13 RFI 073 Card Readers

PROJECT: Dr. Albert B. Consentino Middle School

TO: City of Haverhill
685 Washington Street
Haverhill, MA

DATE: 10/15/2024

JOB: CSM-2024

CONTRACT NO:

DESCRIPTION OF CHANGE

Costs associated with the attached for PR-13 RFI 073 Card Readers.

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2	Brait - OH&P - 0%	0	%	-\$6,137.87		\$0.00	\$0.00
3	Brait - Bond - 0%	0	%	-\$6,137.87		\$0.00	\$0.00

Lump Sum: -\$6,137.87

Total: -\$6,137.87

ACCEPTED: Dore & Whittier

By: _____

Date: _____

ACCEPTED: City of Haverhill

By: _____

Date: _____

Brait Builders

By:  _____

T.J. Dahill

Date: 10-15-24

ACCEPTED: Owners Project Manager

By: _____

Date: _____

PROPOSAL REQUEST

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Owner | <input type="checkbox"/> Civil | <input type="checkbox"/> FF&E |
| <input checked="" type="checkbox"/> Architect | <input type="checkbox"/> Landscape | <input type="checkbox"/> Sustainability |
| <input checked="" type="checkbox"/> Contractor | <input type="checkbox"/> Geotech | <input type="checkbox"/> Acoustics |
| <input checked="" type="checkbox"/> O.P.M | <input type="checkbox"/> Structural | <input checked="" type="checkbox"/> Security |
| <input type="checkbox"/> CX Agent | <input checked="" type="checkbox"/> MEP-FP | <input type="checkbox"/> Other |



Project Name:	Haverhill Consentino Middle School	PR No.	13
Architect's Project No.	21-0818		
Owner:	City of Haverhill 4 Summer Street Haverhill, MA 01830	Architect:	DORE + WHITTIER 260 Merrimac St, Bldg 7, Newburyport, MA 01950
To:	Brait Builders Corporation 57 Rockwood Road Marshfield, MA 02050	Contract Date	4/1/2024
		Issue Date:	6/19/2024
Attention:	TJ Dahill	Subject:	RFI 073 Card Readers

Please submit an itemized quotation for changes in the Contract Sum and/ or Time incidental to proposed modifications to the Contract documents described herein.

THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN.

To coordinate the contract documents with RFI 073, make the following revisions:

At T1.21, Area A, in Corridor 2023 between Rooms 2033 and 2036, Area B, in Corridor 2052 between Rooms 2051 and 2054, and T1.41, Area B, Corridor 4023, between Rooms 4024 and 4027, delete door contact, card reader, electrical pathways to support the devices, including the integration with the access control system and provide a credit for scope of work.

Issued by

DORE + WHITTIER

Tara King

Copy: File, GGD, EdVance



Brait Builders Corporation
57 Rockwood Rd, Suite 3
Marshfield, Massachusetts 02050
P: +17818376400

Project: CMS Haverhill Middle School
685 Washington Street
Haverhill , Massachusetts 01830

RFI #73: CMS - RFI 073 - WGE RFI - 06 Card Readers

Status	Open		
To	Tara King (Dore and Whittier) Heather Gratton (Dore and Whittier)	From	Jake McDonough (Brait Builders Corporation)
Date Initiated	Jun 18, 2024	Due Date	Jul 3, 2024
Location	Project Stage		
Cost Impact	Schedule Impact		
Spec Section	Cost Code		
Drawing Number	Reference		
Linked Drawings			
Received From	Richard Tredgett (Wayne J. Griffin Electric, Inc.)		
Copies To	TJ Dahill (Brait Builders Corporation), Neil Dooney (Brait Builders Corporation), Heather Gratton (Dore and Whittier), Tara King (Dore and Whittier), Don Walter (Dore and Whittier)		

Activity

Question	<p>Question from Jake McDonough Brait Builders Corporation on Tuesday, Jun 18, 2024 at 02:03 PM EDT</p> <p>On Drawings T1.21 Area A abd B and T1.41 Area B there are Card Readers and Door Contacts shown where there is no door located. Can it be confirmed that these devices are not required at these locations.</p> <p>Attachments</p> <p>CMS - RFI 073 - WGE RFI - 06 Card Readers.pdf</p>
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Awaiting an Official Response

SECTION 01 30 01
REQUEST FOR INTERPRETATION FORM
CONSENTINO MIDDLE SCHOOL - #21-0818

TO: Dore & Whittier Architects Inc. 260 Merrimac St., Bldg.7 Newburyport, MA 01950	FROM: Brait Builders	RFI #: RFI - 073
Attn: Tara King	Reply Requested by: Jake McDonough	Issue Date: 06/18/24
RFI DESCRIPTION (Indicate origin of RFI, and summarize the question or type of information required): On Drawings T1.21 Area A abd B and T1.41 Area B there are Card Readers and Door Contacts shown where there is no door located. Can it be confirmed that these devices are not required at these locations.		
REFERENCES (List relevant Drawings or Specification sections and paragraphs): 		
SENDER'S RECOMMENDATION (All RFIs must include a contractor's recommended solution to each condition, including a statement of cost or schedule of impact if applicable. The contractor may be back-charged by the Owner for designer's review time for any RFI submitted without a sender's recommended solution or where response is evident in Drawings.) 		
DESIGNER'S RESPONSE:		

Items noted in RFI are not required. The security consultant requests that the door contact, card reader, electrical pathways to support the devices, including the integration with the access control system be deleted, and that a credit be provided. Design team to issue a formal change under PR 13.

BY:

DATE:

COPIES TO:

END OF SECTION

Request for Interpretation Form

01 30 01 - 1



REQUEST FOR INFORMATION

This is a request for information / clarification to resolve any questions in plans and specifications. Any changes to the contract as a result of the answer to the question below will be addressed under separate cover.

Request For Information No. 6 Date: 6/18/2024

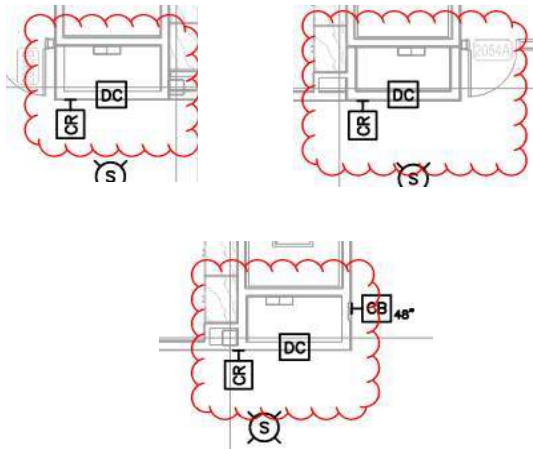
To: Brait Builders Job #: _____

Attn.: Kyle McKernan Project Manager
Title

Project: CMS - Haverhill Middle School

Reference: Card Readers

On Drawings T1.21 Area A abd B and T1.41 Area B there are Card Readers and Door Contacts shown where there is no door located. Can it be confirmed that these devices are not required at these locations.



Question:

Signed: Rich Tredgett Date: 6/18/2024

Please provide an answer by 6/25/2024 to minimize the impact to our work. Time is of the essence.

Attachments: Yes: X No: _____ Copy: _____

Answer: _____

Signed: _____ Date: _____



WAYNE J.
GRIFFIN ELECTRIC
INC.

October 8, 2024

VIA EMAIL ONLY: tdahill@braitbuilders.com

Mr. T.J. Dahill, Project Executive
Brait Builders Corporation
57 Rockwood Road, Suite 3
Marshfield, MA 02050

RE: Job #2949 - Consentino Middle School, Haverhill, MA
Proposal #7

Dear Mr. Dahill:

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:

WJGEI proposes to provide all labor and material necessary to provide the following changes noted below as well in PR-013.

Delete the infrastructure associated with the three (3) card readers and three (3) door contacts.

Total \$ (6,137.87)

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

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

2395 Pleasantdale Road
Suite 14
Doraville, GA 30340
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

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) 306-5373 or rtredgett@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Richard Tredgett
Project Manager

RT/gen

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: Michael Brait, Owner, Brait Builders Corporation, mbrait@braitbuilders.com
Jake McDonough, Assistant Project Manager, Brait Builders Corporation,
jmcdonough@braitbuilders.com
Neil Dooney, Superintendent, Brait Builders Corporation, ndooney@braitbuilders.com
Chris Deschenes, Assistant Project Manager, Wayne J. Griffin Electric, Inc.
Alex L'Homme, Project Foreman, Wayne J. Griffin Electric, Inc.
Charles M. Cunha, Project Manager - Telecom, Wayne J. Griffin Electric, Inc.
Tom Donahue, Project Executive, Wayne J. Griffin Electric, Inc.
Eric McCrary, Project Engineer - Telecom, Wayne J. Griffin Electric, Inc.
Ed Smith, Project Foreman - Telecom, Wayne J. Griffin Electric, Inc.
Victor Cargas, Assistant Project Manager, Wayne J. Griffin Electric Inc.



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

CCN#: P-0007, PR-013 Card Reader Credit
 Date: 9/26/2024
 Project Name: Consentino Middle School
 Project Number: 02949-00-24
 Page Number: 1

Work Description

WJGEI proposes to provide all labor and material necessary to provide the following changes noted below as well in PR-013.

Delete the infrastructure associated with the (3) card readers and (3) door contacts.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
BIM COORDINATION	0.00	0.0000	HRS	0.000	0.0000	0.000
FIELD CLEANUP	0.00	0.0000	HRS	0.000	0.0000	0.000
FIELD AS BUILTS	0.00	0.0000	HRS	0.000	0.0000	0.000
FIELD JHA/SAFETY	0.00	0.0000	HRS	0.000	0.0000	0.000
WORKING FOREMAN	0.00	0.0000	HRS	0.000	0.0000	0.000
3/4" EMT CONDUIT	-25.00	1.3240	FT	-33.100	0.0465	-1.163
3/4" EMT STEEL SET SCREW CONNECTOR	-3.00	0.3600	EA	-1.080	0.1000	-0.300
3/4" PLASTIC BUSHING	-9.00	0.1278	EA	-1.150	0.1600	-1.440
4" SQ. BOX 1-1/2" DEEP 1/2" KO BRACKET	-3.00	5.8133	EA	-17.440	0.3000	-0.900
4" SQ. RING 5/8" RAISED 1 DEV	-3.00	1.0100	EA	-3.030	0.1500	-0.450
#10 x 1" TEK SCREW	-11.00	0.1236	EA	-1.360	0.0240	-0.264
1/2 & 3/4 COND SNP-CLOSE HGR TO SCRW-ON STUD-WAL	-6.00	2.4517	EA	-14.710	0.2500	-1.500
Totals				-71.87		-6.02
Tax				0.00		
Materials with Tax				-71.87		

Summary

Itemized Breakdown Total		-71.87
Electrical Journeyman	(-6.0165 hrs @ \$99.04 / hr)	-595.87
		-595.87
Labor Burden	(\$-595.87 @ 30.00%)	-178.76
		-178.76
Total		-178.76
		-\$846.50



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

CCN#: P-0007, PR-13 Card Reader Credit
 Date: 10/7/2024
 Project Name: Consentino Middle School - Telecom
 Project Number: 02949-T0-24
 Page Number: 1

Work Description

- 1) Proposal is for a complete credit for all material and labor in accordance to PR-13.
- 2) Credit is for the deletion of access control at (3) doors. Corridor 2023, Corridor 2052, & Corridor 4023.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
BIM COORDINATION	0.00	0.0000	HRS	0.000	0.0000	0.000
FIELD CLEANUP	0.00	0.0000	HRS	0.000	0.0000	0.000
FIELD AS BUILTS	0.00	0.0000	HRS	0.000	0.0000	0.000
FIELD JHA/SAFETY	0.00	0.0000	HRS	0.000	0.0000	0.000
WORKING FOREMAN	0.00	0.0000	HRS	0.000	0.0000	0.000
1 NSG - EQUIPMENT AND LABOR	-1.00	1,360.0000	EA	-1,360.000	0.0000	0.000
1 LABOR- HEAD END PANEL TERMS PER DOOR	-3.00	0.0000	EA	0.000	2.5000	-7.500
1 LABOR - ELECTRIC LOCK CONNECTION	-3.00	0.0000	EA	0.000	1.0000	-3.000
1 INSTALL, CONNECT, TEST REQUEST TO EXIT	-3.00	0.0000	EA	0.000	1.5000	-4.500
1 INSTALL, CONNECT AND TEST DOOR CONTACT	-3.00	0.0000	EA	0.000	1.5000	-4.500
1 CARD READER INSTALL	-3.00	0.0000	EA	0.000	2.0000	-6.000
1 COMPOSITE CABLE	-400.00	1.7500	EA	-700.000	0.0100	-4.000
Totals				-2,060.00		-29.50
Tax				0.00		
Materials with Tax				-2,060.00		

Summary

Itemized Breakdown Total		-2,060.00
Telecom Journeyman	(-29.5000 hrs @ \$84.26 / hr)	-2,485.67
		-2,485.67
Labor Burden	(\$-2,485.67 @ 30.00%)	-745.70
		-745.70
		-745.70
Total		-\$5,291.37

PROPOSAL REQUEST

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Owner | <input type="checkbox"/> Civil | <input type="checkbox"/> FF&E |
| <input checked="" type="checkbox"/> Architect | <input type="checkbox"/> Landscape | <input type="checkbox"/> Sustainability |
| <input checked="" type="checkbox"/> Contractor | <input type="checkbox"/> Geotech | <input type="checkbox"/> Acoustics |
| <input checked="" type="checkbox"/> O.P.M | <input type="checkbox"/> Structural | <input checked="" type="checkbox"/> Security |
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Project Name:	Haverhill Consentino Middle School	PR No.	13
Architect's Project No.	21-0818		
Owner:	City of Haverhill 4 Summer Street Haverhill, MA 01830	Architect:	DORE + WHITTIER 260 Merrimac St, Bldg 7, Newburyport, MA 01950
To:	Brait Builders Corporation 57 Rockwood Road Marshfield, MA 02050	Contract Date	4/1/2024
		Issue Date:	6/19/2024
Attention:	TJ Dahill	Subject:	RFI 073 Card Readers

Please submit an itemized quotation for changes in the Contract Sum and/ or Time incidental to proposed modifications to the Contract documents described herein.

THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN.

To coordinate the contract documents with RFI 073, make the following revisions:

At T1.21, Area A, in Corridor 2023 between Rooms 2033 and 2036, Area B, in Corridor 2052 between Rooms 2051 and 2054, and T1.41, Area B, Corridor 4023, between Rooms 4024 and 4027, delete door contact, card reader, electrical pathways to support the devices, including the integration with the access control system and provide a credit for scope of work.

Issued by

DORE + WHITTIER

Tara King

Copy: File, GGD, EdVance



Brait Builders Corporation
57 Rockwood Rd, Suite 3
Marshfield, Massachusetts 02050
P: +17818376400

Project: CMS Haverhill Middle School
685 Washington Street
Haverhill , Massachusetts 01830

RFI #73: CMS - RFI 073 - WGE RFI - 06 Card Readers

Status	Open		
To	Tara King (Dore and Whittier) Heather Gratton (Dore and Whittier)	From	Jake McDonough (Brait Builders Corporation)
Date Initiated	Jun 18, 2024	Due Date	Jul 3, 2024
Location	Project Stage		
Cost Impact	Schedule Impact		
Spec Section	Cost Code		
Drawing Number	Reference		
Linked Drawings			
Received From	Richard Tredgett (Wayne J. Griffin Electric, Inc.)		
Copies To	TJ Dahill (Brait Builders Corporation), Neil Dooney (Brait Builders Corporation), Heather Gratton (Dore and Whittier), Tara King (Dore and Whittier), Don Walter (Dore and Whittier)		

Activity

Question	<div><p>Question from Jake McDonough Brait Builders Corporation on Tuesday, Jun 18, 2024 at 02:03 PM EDT</p><p>On Drawings T1.21 Area A abd B and T1.41 Area B there are Card Readers and Door Contacts shown where there is no door located. Can it be confirmed that these devices are not required at these locations.</p><p>Attachments</p><p>CMS - RFI 073 - WGE RFI - 06 Card Readers.pdf</p></div>
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Awaiting an Official Response

CONSENTINO MIDDLE SCHOOL - #21-0818

TO:	FROM:	RFI #:
Dore & Whittier Architects Inc. 260 Merrimac St., Bldg.7 Newburyport, MA 01950		
Attn: Tara King	Reply Requested by:	Issue Date:
RFI DESCRIPTION (Indicate origin of RFI, and summarize the question or type of information required):		
REFERENCES (List relevant Drawings or Specification sections and paragraphs):		
SENDER'S RECOMMENDATION (All RFIs must include a contractor's recommended solution to each condition, including a statement of cost or schedule of impact if applicable. The contractor may be back-charged by the Owner for designer's review time for any RFI submitted without a sender's recommended solution or where response is evident in Drawings.)		
DESIGNER'S RESPONSE:		

BY:	DATE:	COPIES TO:

END OF SECTION

Request for Interpretation Form

01 30 01 - 1



REQUEST FOR INFORMATION

This is a request for information / clarification to resolve any questions in plans and specifications. Any changes to the contract as a result of the answer to the question below will be addressed under separate cover.

Request For Information No. 6 Date: 6/18/2024

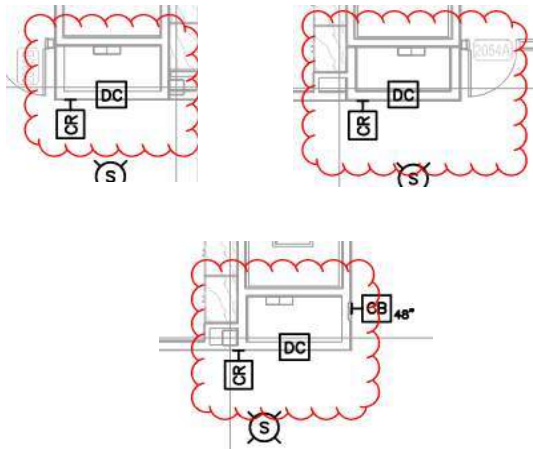
To: Brait Builders Job #: _____

Attn.: Kyle McKernan Project Manager
Title

Project: CMS - Haverhill Middle School

Reference: Card Readers

On Drawings T1.21 Area A abd B and T1.41 Area B there are Card Readers and Door Contacts shown where there is no door located. Can it be confirmed that these devices are not required at these locations.



Question:

Signed: Rich Tredgett Date: 6/18/2024

Please provide an answer by 6/25/2024 to minimize the impact to our work. Time is of the essence.

Attachments: Yes: X No: _____ Copy: _____

Answer: _____

Signed: _____ Date: _____

October 7, 2024

Customer: Wayne J. Griffin Electric, Inc.
116 Hopping Brook Road
Holliston, MA 01746
Charlie Cunha

Project: Consentino Middle School
685 Washington Street
Haverhill, MA

Scope of Services:

Quotation is to reflect security system related changes issued in PR #13 dated 6/19/2024, Quotation includes the below scope of work:

- Credit programming, testing of deletions
- Delete door contact and card reader at the following locations:
T1.21 Area A Corridor 2023 between Rooms 2033 and 2036
T1.21 Area B Corridor 2052 between rooms 2051 and 2054
T1.41, Area B Corridor 4023 between rooms 4024 and 4027

Quotation specifically excludes:

- Field device installation/terminations, panel installation, cable, cable installation, device backboxes, backbox installation, 120V power, permits, and sales tax.

Total Quotation: (\$1,360.00)

Terms and Conditions:

Pricing. The pricing set forth in this Agreement is based on the number of devices to be installed and/or services to be performed as set forth in the Scope of Work ("Scope of Services"). If the actual number of devices installed or services to be performed is greater than that set forth in the Scope of Services, the price will be increased accordingly.

Subject to the limitations below, Company warrants any equipment and Software installed pursuant to this Agreement to be free from defects in material and workmanship under normal use for a period of one (1) year from the date of first beneficial use or all or any part of the Covered System(s) or 18 months after Equipment shipments, whichever is earlier.

Warranty Service: Warranty Service will be performed during Company's normal working hours. If Customer requests warranty service at other than normal working hours, service will be performed at Company's then current rates for after-hours services. All repairs or adjustments that are or may become necessary shall be performed by and authorized representative of Company. Any repairs, adjustments or interconnections performed by Customer or any third party shall void all warranties.

Code Compliance. Company does not undertake an obligation to inspect for compliance with laws or regulations unless specifically stated in the Scope of Work. Customer acknowledges that the Authority Having Jurisdiction (e.g. Fire Marshal) may establish additional requirements for compliance with local codes. Any additional services or equipment required will be provided at an additional cost to Customer.

Backcharges: No charges shall be levied against the Seller unless seventy-two (72) hours prior written notice is given to Company to correct any alleged deficiencies which are alleged to necessitate such charges and unless such alleged deficiencies are solely and directly caused by Company.



323 Manley Street
West Bridgewater, MA 02379
Office: 800-828-Fire (3473)

Force Majeure; Delays. Company shall not be liable for any damage or penalty for delays or failure to perform work due to acts of God, acts or omissions of Customer, acts of civil or military authorities, Government regulations or priorities, fires, epidemics, quarantine, restrictions, war, riots, civil disobedience or unrest, strikes, delays in transportation, vehicle shortages, differences with workmen, inability to obtain necessary labor, material or manufacturing facilities, defaults of Company's subcontractors, failure or delay in furnishing complete information by Customer with respect to location or other details of work to be performed, impossibility or impracticability of performance or any other cause or causes beyond Company's control, whether or not similar to the foregoing.

Termination. Any termination under the terms of this Agreement shall be made in writing. In the event Customer terminates this Agreement prior to completion for any reason not arising solely from Company's performance or failure to perform, Customer understands and agrees that Company will incur costs of administration and preparation that are difficult to estimate or determine. Accordingly, should Customer terminate this Agreement as described above, Customer agrees to pay all charges incurred for products and equipment installed and services performed, and in addition pay an amount equal to twenty (20%) percent of the price of products and equipment not yet delivered and Services not yet performed, return all products and equipment delivered and pay a restocking fee of twenty (20%) percent the price of products or equipment returned.

Shipping: Complete order from manufacturer(s) drop shipped to EC destination of choice

Payment. FOB net 30 no retainage on material

Please feel free to contact us by any means with questions or concerns. Thanks for the opportunity.

Respectfully,



Torrey M. Champignie, AET

Senior Project Engineer, NSG Life Safety

323 Manley Street, West Bridgewater, MA 02379

O: 508-262-8207 | M: 781-724-3983

tchampignie@nsglifesafety.com | www.nsglifesafety.com

PCO REVIEW FORM

Project Name: **Haverhill Consentino Middle School**

Architect's Project No. **21-0818**

PCO No.

**025
R2**



Subject: **BFA Sequence 1-8**

PCO Issue Date: **2024.12.07**
PCO Reviewed: **2024.12.23**

The following is a summary of the Design Team review of the above referenced Proposed Change Order (PCO). Refer to summary below *and* attached comments. Acceptance of this PCO – or partial acceptance – shall not constitute a change to the construction contract or a directive to proceed with the work. PCO review is only a recommendation to the Owner regarding the validity and cost of the proposed PCO. Final approval shall be by the Owner per contract.

CATEGORY					
Elective / Owner		Town/AHJ/Other		Unforeseen	
Design	X	Other		GC Expenditure	

PCO shall be reviewed by each consultant with relevant work included:

Reviewed	Revise	Rejected	Consultant:	Reviewer:	Comments:
X			Architectural:	T. King / M. Rogers	D+W has reviewed the attached PCO finds the fees to be fair and reasonable. Previously noted costs were removed from the total PCO fee.
			Site/Civil:		
			Traffic:		
			Geotechnical:		
			Landscape:		
			Wetlands:		
			Haz Materials:		
X			Structural:	EDG	No additional comments
			Acoustical:		
			Foodservice:		
			Fire Protection:		
			Plumbing:		
			HVAC:		
			Electrical:		
			Lighting:		
			Telecomm:		
			Building Security:		
			Audio-Visual:		
			Theatrical:		
			Door Hardware:		
			Sustainability		

Michele Barbaro-Rogers

Michele Barbaro-Rogers

Digitally signed by Michele
Barbaro-Rogers
DN: c=US,
e=mrogers@doreandwhittier.com,
ou=Michele Barbaro-Rogers
Reason: I have reviewed this
document
Date: 2024.12.23 15:28:13 -0500

X	Design Team Recommends Approval
	Design Team Does Not Recommend Approval

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield, MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER**No. CMS-025R2****TITLE: BFA Sequence 1 thru 8****DATE: 12/07/2024****PROJECT: Dr. Albert B. Consentino Middle
School****JOB: CSM-2024****TO: City of Haverhill
685 Washington Street
Haverhill, MA****CONTRACT NO:****DESCRIPTION OF CHANGE**


We have reviewed the amount of drawing work associated with those revisions and it appears to be adequate. There were 12 drawings to rework/create and we also had to update the erection plans & we spent time to coordinate everything. The 17 hours seems reasonable to us. We cannot really compare the BID cost versus this extra cost because the nature of the changes. (refer to letter in attachment)

Costs adjusted based on reconciliation of total Norgate NOC's

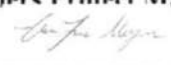
Item	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	Revised NOC-2 R1	1	LS	\$2,943.49		\$0.00	\$2,943.49
2	Brait - OH&P - 5%	0	%	\$2,943.49		\$0.00	\$147.17
3	Brait - Bond - 2%	0	%	\$3,090.66		\$0.00	\$61.81

Lump Sum: \$3,152.48**Total: \$3,152.48****Dore & Whittier****By:** SEE COVER SHEET

City of Haverhill

Date: _____**City of Haverhill****By:** 
Stephen Dorrance**Date:** 1/8/25**Brait Builders****By:** 

T.J. Dahill

Date: December 17, 2024**Owners Project Manager****By:** 
Christina Mulligan**Date:** 1/2/24

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield , MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER
No. CMS-025R2

TITLE: BFA Sequence 1 thru 8

PROJECT: Dr. Albert B. Consentino Middle School

TO: City of Haverhill
685 Washington Street
Haverhill, MA

DATE: 12/07/2024

JOB: CSM-2024

CONTRACT NO:

DESCRIPTION OF CHANGE

We have reviewed the amount of drawing work associated with those revisions and it appears to be adequate. There were 12 drawings to rework/create and we also had to update the erection plans & we spent time to coordinate everything. The 17 hours seems reasonable to us. We cannot really compare the BID cost versus this extra cost because the nature of the changes. (refer to letter in attachment)

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3	Brait - Bond - 2%	0	%	\$3,090.66		\$0.00	\$61.81

Lump Sum: \$3,152.48

Total: \$3,152.48

Dore & Whittier

By: _____
City of Haverhill


Date: _____

City of Haverhill

By: _____

Date: _____

Brait Builders

By:  _____
T.J. Dahill

Date: December 17, 2024

Owners Project Manager

By: _____

Date: _____



NORGATE

791 8e Rue Est, La Guadeloupe (Qc) G0M 1G0

NOTIFICATION OF CHANGES

NOC No:	2 rev-1	Date of request:	Oct-21-2024	response required by:	Oct-23-2024
Contractor:	Brait Builders	Project's name:	Consentino Middle School		
To:	TJ Dahill				
From:	Etienne Morin	Phone:	418-313-7180	Fax:	
Ref. Document:	BFA SEQ#1@8	Attachments:	Marked up plans & back up from drafter		

Description: Hereby costs associated with the changes made on approval return of Sequences 1 to 8. Refer to backup in attachment for a detailed description of the changes.

Steel:	W shape	1002 lbs	1.10 \$ \$/lbs	1 102.20 \$
	L & C	140 lbs	1.45 \$ \$/lbs	203.00 \$
	Plate	96 lbs	1.75 \$ \$/lbs	168.00 \$
	HSS 3/4" to 12"	0 lbs	1.75 \$ \$/lbs	0.00 \$
	HSS 14" and +	0 lbs	2.15 \$ \$/lbs	0.00 \$
	Bolts	8 qty	2.90 \$ \$/ea	23.20 \$
	galvanized	70 lbs	0.55 \$ \$/lbs	38.50 \$
	Standard primer	0 lbs	0.15 \$ \$/lbs	0.00 \$
	Connections & Waste 10%	124 lbs	1.75 \$ \$/lbs	217.00 \$

Deck:				0.00 \$
			sub-total	1 751.90 \$
			0%	0.00 \$
			sub-total	1 751.90 \$
		Admin & Profit	10%	175.19 \$
			sub-total	1 927.09 \$
		TAXES:	0.00%	0.00 \$
		sub-total (material)		1 927.09 \$

Project manager:	2 hr	135.00 \$ \$/hr	270.00 \$
Drawings:	17 hr	115.00 \$ \$/hr	1 955.00 \$
Engineering:	1 hr	175.00 \$ \$/hr	175.00 \$

Fabrication & handling :	3 hr	135.00 \$ \$/hr	405.00 \$
(new relieving angles)			

Transport:	1238 lbs	x \$3,200 per load	99.00 \$
	40 000 lbs		

This weight is the addition of 1002 + 140 +96 lbs

sub-total	2 904.00 \$	\$774
0%	0.00 \$	
sub-total	2 904.00 \$	
Admin. & Profit	290.40 \$	\$77.4
10%		
sub-total	3 194.40 \$	\$851.40
sub-total (workforce)	3 194.40 \$	

Erection:	1 hour to set the new relieving angles		150.00 \$
			0.00 \$
		sub-total	150.00 \$
		Admin & Profit	15.00 \$
		10%	
		sub-total	165.00 \$
		sub-total (erection)	165.00 \$

Bond:	
Insurances:	2%

Total 5 392.22 \$ \$2943.49

Impact on the global delivery schedule: 0 days

Oct-23-2024

Explanation of the work associated to modifications received once the detailing is started

This is a summary of the work we have to do when receiving a modification. This should help the reviewers to have a better understanding of the work implied throughout the various activities that are affected by modifications. Note that certain projects have a price per ton for additional steel. This is for the steel that could be added before the drafting has begun. Once it is started, the extras are dealt differently. The code of standard practice is clear about this, see appendix B. We are managing them by affected drawings and not by the ton since the tons are not significant to many modifications. For instance, if there is a modification to the loads, we will have to spend time to modify the connection without adding any weight. Because of that, the extras are calculated per affected pieces once the project drafting has begun. In today's industry, the competition is fierce. When pricing the detailing of a project, it is to detail it once with minor modifications throughout its completion. We are now all using 3D softwares to detail. To model a building and detail it correctly the first time and to avoid redetailing, we use the RFI's. Once they are answered, we proceed. If modifications to the RFI's answers are made during the approval process, we need to modify the 3D model, shop dwgs, etc. This cause additional drafting time that was not accounted for.

Below are a list of activities we have to go through depending of the status of the project;

General

- Rapidly produce a list of pieces to put on hold if the project is in fabrication.
- Verify all pieces that have been put on hold to make sure they are really affected and verify their status in the shop to see if they are cut, drilled, etc...
- Provide the information to the detailers about the modifications vs what has been done in the shop. To see if we can recuperate the steel.

Shop dwgs

- We have to review the received documents
- Target all affected pieces and make a list of them
- Make the required modifications in the 3D model
- Verify for any new conflict the modification may have brought
- Where there is a section applied on the beam, like bent plates or lintels, we have to make sure that everything follows the modifications
- Once the 3D has been modified, we get it checked by a checker
- The checker has to read the documents as well to make sure it has been done properly
- Once it is checked, we can produce the revised shop drawings
- There is another checker needed to verify the revised shop drawings
- We prepare the shop drawings for the shop with all required clouds and revisions
- If it needs to go through the approval process, we produce the package with all the required documents
- Once it comes back from resubmission, we have to review it and coordinate any new comments
- If it goes back to the shop, we produce the revised KISS files, CNC, etc...
- Revision of the erection plans
- Production of the extra itself for the clients

PCO REVIEW FORM

Project Name: **Haverhill Consentino Middle School**

PCO No.

026



Architect's Project No. **21-0818**

R1

Subject: **BFA Sequence 9-16**

PCO Issue Date: **2024.10.24**

PCO Reviewed: **2024.12.23**

The following is a summary of the Design Team review of the above referenced Proposed Change Order (PCO). Refer to summary below *and* attached comments. Acceptance of this PCO – or partial acceptance – shall not constitute a change to the construction contract or a directive to proceed with the work. PCO review is only a recommendation to the Owner regarding the validity and cost of the proposed PCO. Final approval shall be by the Owner per contract.

CATEGORY					
Elective / Owner		Town/AHJ/Other		Unforeseen	
Design	X	Other		GC Expenditure	

PCO shall be reviewed by each consultant with relevant work included:

Reviewed	Revise	Rejected	Consultant:	Reviewer:	Comments:
X			Architectural:	T. King / M. Rogers	D+W has reviewed the attached PCO finds these fees to be acceptable (drawing fees reduced in 025 as part of this recommendation)
			Site/Civil:		
			Traffic:		
			Geotechnical:		
			Landscape:		
			Wetlands:		
			Haz Materials:		
X			Structural:	EDG	No additional comments
			Acoustical:		
			Foodservice:		
			Fire Protection:		
			Plumbing:		
			HVAC:		
			Electrical:		
			Lighting:		
			Telecomm:		
			Building Security:		
			Audio-Visual:		
			Theatrical:		
			Door Hardware:		
			Sustainability		

Michele Barbaro-Rogers

Michele Barbaro-Rogers

Digitally signed by Michele
Barbaro-Rogers
DN: C=US,
E=mrogers@doreandwhittier.com,
CN=Michele Barbaro-Rogers
Reason: I have reviewed this
document
Date: 2024.12.23 16:46:02 -05'00'

X	Design Team Recommends Approval
	Design Team Does Not Recommend Approval

Brait Builders Corp.

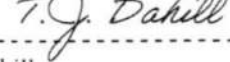

57 Rockwood Road
Suite 3
Marshfield, MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER**No. CMS-026R1****TITLE: BFA Sequence 9-16****DATE: 10/24/2024****PROJECT: Dr. Albert B. Consentino Middle
School****JOB: CSM-2024****TO: City of Haverhill
685 Washington Street
Haverhill, MA****CONTRACT NO:****DESCRIPTION OF CHANGE**

We have reviewed the amount of drawing work associated with those revisions and it appears to be adequate. There were 12 drawings to rework/create and we also had to update the erection plans & we spent time to coordinate everything. The 18 hours seems reasonable to us. We cannot really compare the BID cost versus this extra cost because the nature of the changes. (refer to letter in attachment). Other comments were addressed.

Ite m	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	Norgate NOC: 3 rev-1	1	LS	\$3,515.62		\$0.00	\$3,515.62
2	Brait - OH&P - 5%	0	%	\$3,515.62		\$0.00	\$175.78
3	Brait - Bond - 2%	0	%	\$3,691.40		\$0.00	\$73.83

Lump Sum: \$3,765.23**Total: \$3,765.23****Dore & Whittier****By:** SEE COVER SHEET**Date:****City of Haverhill****By:** 
Stephen Dorrance**Date:** 1/8/25**Brait Builders****By:** 
T.J. Dahill**Date:** 10-24-24**Owners Project Manager****By:** 
Christina Mulligan**Date:** 1/2/24

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield , MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER
No. CMS-026R1

TITLE: BFA Sequence 9-16

PROJECT: Dr. Albert B. Consentino Middle School

TO: City of Haverhill
685 Washington Street
Haverhill, MA

DATE: 10/24/2024

JOB: CSM-2024

CONTRACT NO:

DESCRIPTION OF CHANGE

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Dore & Whittier

By: _____

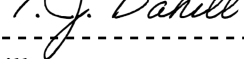
Date: _____

City of Haverhill

By: _____

Date: _____

Brait Builders

By:  _____
T.J. Dahill

Date: 10-24-24

Owners Project Manager

By: _____

Date: _____



NOTIFICATION OF CHANGES

Ref. Document: BFA SEQ#9@16 Attachments: Marked up plans & back up from drafter

Oct-23-2024

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- Revision of the erection plans
- Production of the extra itself for the clients

PCO REVIEW FORM

Project Name: **Haverhill Consentino Middle School**

PCO No.

027
R1



Architect's Project No. **21-0818**

Subject: **BFA Sequence 7-24**

PCO Issue Date: **2024.10.24**
PCO Reviewed: **2024.12.23**

The following is a summary of the Design Team review of the above referenced Proposed Change Order (PCO). Refer to summary below *and* attached comments. Acceptance of this PCO – or partial acceptance – shall not constitute a change to the construction contract or a directive to proceed with the work. PCO review is only a recommendation to the Owner regarding the validity and cost of the proposed PCO. Final approval shall be by the Owner per contract.

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Elective / Owner		Town/AHJ/Other		Unforeseen	
Design	X	Other		GC Expenditure	

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			Landscape:		
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			Haz Materials:		
X			Structural:	EDG	No additional comments
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			Foodservice:		
			Fire Protection:		
			Plumbing:		
			HVAC:		
			Electrical:		
			Lighting:		
			Telecomm:		
			Building Security:		
			Audio-Visual:		
			Theatrical:		
			Door Hardware:		
			Sustainability		
			Other:		

Michele Barbaro-Rogers

Michele Barbaro-Rogers

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DN: C=US,
E=mrogers@doreandwhittier.com,
OU=Michele Barbaro-Rogers
Reason: I have reviewed this
document
Date: 2024.12.24 10:16:35-0500

X	Design Team Recommends Approval
	Design Team Does Not Recommend Approval

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield, MA 02050


Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER**No. CMS-027R1****TITLE: BFA Sequence 17-24****DATE: 10/24/2024****PROJECT: Dr. Albert B. Consentino Middle School****JOB: CSM-2024****TO: City of Haverhill
685 Washington Street
Haverhill, MA****CONTRACT NO:****DESCRIPTION OF CHANGE**

We confirm the level of effort to fabricate the 21ft of bent plate & 62ft of angle & shop weld it on the beams. First, we have to take a plain plate from the yard and bring it to the plasma table with the loader. Then we cut the plates & get rid of the debris + put the plates on a buggee for the next step. We then have to bend the plates per the shop drawings. Then, plates goes on the assembly line were they are shop welded on the beams with stitch weld. Those steps takes time and the general rule we are using is 3h x 10 lin. ft. of bent plates for all those steps. (6h). The other 4 hours is to cut & weld the angles on the beams.

Refer to additional backup provided on the NOC sheet for Erection

Item	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	Norgate NOC: 4 rev-1	1	LS	\$9,596.86		\$0.00	\$9,596.86
2	Brait - OH&P - 5%	0	%	\$9,596.86		\$0.00	\$479.84
3	Brait - Bond - 2%	0	%	\$10,076.70		\$0.00	\$201.53

Lump Sum: \$10,278.24**Total: \$10,278.24****Dore & Whittier****By:** SEE COVER SHEET**Date:****City of Haverhill****By:** 
Stephen Dorrance**Date:** 1/8/25**Brait Builders****By:** 
T.J. Dahill**Date:** 10-24-24**Owners Project Manager****By:** 
Christina Mulligan**Date:** 1/2/24

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield , MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER

No. CMS-027R1

TITLE: BFA Sequence 17-24

DATE: 10/24/2024

PROJECT: Dr. Albert B. Consentino Middle
School

JOB: CSM-2024

TO: City of Haverhill
685 Washington Street
Haverhill, MA

CONTRACT NO:

DESCRIPTION OF CHANGE

We confirm the level of effort to fabricate the 21ft of bent plate & 62ft of angle & shop weld it on the beams. First, we have to take a plain plate from the yard and bring it to the plasma table with the loader. Then we cut the plates & get rid of the debris + put the plates on a buggee for the next step. We then have to bend the plates per the shop drawings. Then, plates goes on the assembly line were they are shop welded on the beams with stitch weld. Those steps takes time and the general rule we are using is 3h x 10 lin. ft. of bent plates for all those steps. (6h). The other 4 hours is to cut & weld the angles on the beams.

Refer to additional backup provided on the NOC sheet for Erection

Item	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	Norgate NOC: 4 rev-1	1	LS	\$9,596.86		\$0.00	\$9,596.86
2	Brait - OH&P - 5%	0	%	\$9,596.86		\$0.00	\$479.84
3	Brait - Bond - 2%	0	%	\$10,076.70		\$0.00	\$201.53

Lump Sum: \$10,278.24

Total: \$10,278.24

Dore & Whittier

By: _____

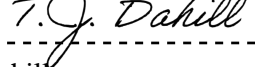
Date: _____

City of Haverhill

By: _____

Date: _____

Brait Builders

By: 
T.J. Dahill

Date: 10-24-24

Owners Project Manager

By: _____

Date: _____

**NORGATE**

791 8e Rue Est, La Guadeloupe (Qc) G0M 1G0

NOTIFICATION OF CHANGES

NOC No:	4 rev-1	Date of request:	Oct-21-2024	response required by:	Oct-23-2024
Contractor:	Brait Builders	Project's name:	Consentino Middle School		
To:	TJ Dahill	Phone:	418-313-7180	Fax:	
From:	Etienne Morin				
Ref. Document:	BFA SEQ17@24 + Project RFIs 36,49,54 & 63		Attachments:	Marked up plans & back up from drafter	

Description: Hereby costs associated with the changes made on approval return of Sequences 17 to 24 + some changes made via RFIs. Refer to backup in attachment for a detailed description of the changes. Fabrication time include a credit for the W30x90 (4hours) and include 5 new beams (2hours each) + 21 lin. feet of bent plate and 62' of angle.

Steel:	W shape	-1009 lbs	1.10 \$ /lbs	(1 109.90 \$)
	L & C	385 lbs	1.45 \$ /lbs	558.25 \$
	Plate	240 lbs	1.75 \$ /lbs	420.00 \$
	HSS 3/4" to 12"	0 lbs	1.75 \$ /lbs	0.00 \$
	HSS 14" and +	0 lbs	2.15 \$ /lbs	0.00 \$
	Bolts	0 qty	2.90 \$ /ea	0.00 \$
	HAS-V-36-ROD 3/4" diameter	18 qty	30.00 \$ /ea	540.00 \$
	galvanized	0 lbs	0.55 \$ /lbs	0.00 \$
	Standard primer	0 lbs	0.15 \$ /lbs	0.00 \$
	Connections & Waste 10%	0 lbs	1.75 \$ /lbs	0.00 \$
Deck:				0.00 \$
sub-total				408.35 \$
0%				0.00 \$
sub-total				408.35 \$
Admin & Profit 10%				40.84 \$
sub-total				449.19 \$
TAXES: 0.00%				0.00 \$
sub-total (material)				449.19 \$
Project manager:	3 hr	135.00 \$ /hr	405.00 \$	
Drawings:	22 hr	115.00 \$ /hr	2 530.00 \$	
Engineering:	2 hr	175.00 \$ /hr	350.00 \$	
Fabrication & handling : (4 new beams , angles & bent plates added shop welded)	16 hr	135.00 \$ /hr	2 160.00 \$	
Transport:	N/A			0.00 \$
sub-total				5 445.00 \$
0%				0.00 \$
sub-total				5 445.00 \$
Admin & Profit 10%				544.50 \$
sub-total				5 989.50 \$
sub-total (workforce)				5 989.50 \$
Erection:	4 new picks + 4 new bent plates to anchor to CMU with Hiltis			2 700.00 \$
	(minus 1 pick and add 5 picks)			0.00 \$
	4 picks at 500\$ each			2 700.00 \$
	4.5 hours to drill & install the epoxy anchors equipment			270.00 \$
sub-total				2 970.00 \$
sub-total (erection)				2 970.00 \$
Bond:				
Insurances: 2%				188.17 \$
Total				9 596.86 \$
Impact on the global delivery schedule: 0 days				Oct-23-2024

Explanation of the work associated to modifications received once the detailing is started

This is a summary of the work we have to do when receiving a modification. This should help the reviewers to have a better understanding of the work implied throughout the various activities that are affected by modifications. Note that certain projects have a price per ton for additional steel. This is for the steel that could be added before the drafting has begun. Once it is started, the extras are dealt differently. The code of standard practice is clear about this, see appendix B. We are managing them by affected drawings and not by the ton since the tons are not significant to many modifications. For instance, if there is a modification to the loads, we will have to spend time to modify the connection without adding any weight. Because of that, the extras are calculated per affected pieces once the project drafting has begun. In today's industry, the competition is fierce. When pricing the detailing of a project, it is to detail it once with minor modifications throughout its completion. We are now all using 3D softwares to detail. To model a building and detail it correctly the first time and to avoid redetailing, we use the RFI's. Once they are answered, we proceed. If modifications to the RFI's answers are made during the approval process, we need to modify the 3D model, shop dwgs, etc. This cause additional drafting time that was not accounted for.

Below are a list of activities we have to go through depending of the status of the project;

General

- Rapidly produce a list of pieces to put on hold if the project is in fabrication.
- Verify all pieces that have been put on hold to make sure they are really affected and verify their status in the shop to see if they are cut, drilled, etc...
- Provide the information to the detailers about the modifications vs what has been done in the shop. To see if we can recuperate the steel.

Shop dwgs

- We have to review the received documents
- Target all affected pieces and make a list of them
- Make the required modifications in the 3D model
- Verify for any new conflict the modification may have brought
- Where there is a section applied on the beam, like bent plates or lintels, we have to make sure that everything follows the modifications
- Once the 3D has been modified, we get it checked by a checker
- The checker has to read the documents as well to make sure it has been done properly
- Once it is checked, we can produce the revised shop drawings
- There is another checker needed to verify the revised shop drawings
- We prepare the shop drawings for the shop with all required clouds and revisions
- If it needs to go through the approval process, we produce the package with all the required documents
- Once it comes back from resubmission, we have to review it and coordinate any new comments
- If it goes back to the shop, we produce the revised KISS files, CNC, etc...
- Revision of the erection plans
- Production of the extra itself for the clients

PCO REVIEW FORM

Project Name: **Haverhill Consentino Middle School**

PCO No.

034
R1



Architect's Project No. **21-0818**

Subject: **EF Duct Chase**

PCO Issue Date: **2024.12.10**

PCO Reviewed: **2024.12.23**

The following is a summary of the Design Team review of the above referenced Proposed Change Order (PCO). Refer to summary below *and* attached comments. Acceptance of this PCO – or partial acceptance – shall not constitute a change to the construction contract or a directive to proceed with the work. PCO review is only a recommendation to the Owner regarding the validity and cost of the proposed PCO. Final approval shall be by the Owner per contract.

CATEGORY					
Elective / Owner		Town/AHJ/Other		Unforeseen	
Design	X	Other		GC Expenditure	

PCO shall be reviewed by each consultant with relevant work included:

Reviewed	Revise	Rejected	Consultant:	Reviewer:	Comments:
X			Architectural:	T. King / M. Rogers	D+W has reviewed the attached PCO finds the fees to be fair and reasonable.
			Site/Civil:		
			Traffic:		
			Geotechnical:		
			Landscape:		
			Wetlands:		
			Haz Materials:		
			Structural:		
			Acoustical:		
			Foodservice:		
			Fire Protection:		
			Plumbing:		
X			HVAC:	GGD	Fees are fair and reasonable
			Electrical:		
			Lighting:		
			Telecomm:		
			Building Security:		
			Audio-Visual:		
			Theatrical:		
			Door Hardware:		
			Sustainability		
			Other:		

Michele Barbaro-Rogers

Michele Barbaro-Rogers

Digitally signed by Michele
Barbaro-Rogers
DN: G=US,
E=mrogers@doresandwhittier.com,
CN=Michele Barbaro-Rogers
Reason: I have reviewed this
document
Date: 2024.12.27 13:06:09-0500

X	Design Team Recommends Approval
	Design Team Does Not Recommend Approval

M#91628
J#894 117 00.00

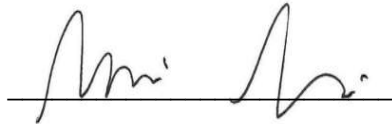
DATE: December 13, 2024

MEMO

TO: Michelle Barbaro-Rogers, AIA
Dore + Whittier

FROM: Mitchell Medeiros, Engineer

Dominick B. Puniello, P.E., Principal



DEPT: HVAC

PROJECT: Consentino Middle School
Haverhill, Massachusetts

SUBJECT: PCO #034R1: PR-12 - RFI 57 - EF Duct Change

Please be advised as follows:

We have reviewed the General Mechanical Contractors, Inc. portion of Proposed Change Order No. 034R1 in the amount of \$9,575.97 for costs associated with additional HVAC costs associated with PR-12, which made changes to exhaust ductwork and dampers. We find the amount to be fair and reasonable and recommend your approval.

If you have any questions regarding this information, please contact our office at your earliest convenience.

MM:kc

Enc.

Cc. Tara King, Dore + Whittier

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield, MA 02050

RECEIVED

12/11/24

GGD Consulting Engineers, Inc.

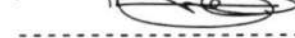

Phone: (781) 837-6400

Fax: (781) 837-6153

PROPOSED CHANGE ORDER**No. CMS-034R1****TITLE:** PR-12 RFI 57 EF Duct Chase**DATE:** 12/10/2024**PROJECT:** Dr. Albert B. Consentino Middle
School**JOB:** CSM-2024**TO:** City of Haverhill
685 Washington Street
Haverhill, MA**CONTRACT NO:****DESCRIPTION OF CHANGE**

Costs associated with the attached for PR-12 RFI 57 EF Duct Chase.

Item	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	GMC PR-12 COR	1	LS	\$9,575.97		\$0.00	\$9,575.97
2	Brait - OH&P - 5%	0	%	\$9,575.97		\$0.00	\$478.80
3	Brait - Bond - 2%	0	%	\$10,054.77		\$0.00	\$201.10

Lump Sum: \$10,255.86**Total:** \$10,255.86**Dore & Whittier****By:** SEE COVER SHEET
City of Haverhill**Date:** _____**City of Haverhill****By:** 
Stephen Dorrance**Date:** 1/9/25**Brait Builders****By:** 
T.J. Dahill**Date:** 12/10/24**Owners Project Manager****By:** 
Christina Mulligan**Date:** 1/2/24

RECEIVED

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield , MA 02050

12/11/24

GGD Consulting Engineers, Inc.

Phone: (781) 837-6400

Fax: (781) 837-6153

PROPOSED CHANGE ORDER

No. CMS-034R1

TITLE: PR-12 RFI 57 EF Duct Chase

DATE: 12/10/2024

PROJECT: Dr. Albert B. Consentino Middle
School

JOB: CSM-2024

TO: City of Haverhill
685 Washington Street
Haverhill, MA

CONTRACT NO:

DESCRIPTION OF CHANGE

Costs associated with the attached for PR-12 RFI 57 EF Duct Chase.

Item	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	GMC PR-12 COR	1	LS	\$9,575.97		\$0.00	\$9,575.97
2	Brait - OH&P - 5%	0	%	\$9,575.97		\$0.00	\$478.80
3	Brait - Bond - 2%	0	%	\$10,054.77		\$0.00	\$201.10

Lump Sum: \$10,255.86

Total: \$10,255.86

Dore & Whittier

By: _____
City of Haverhill


Date: _____

City of Haverhill

By: _____

Date: _____

Brait Builders

By: 
T.J. Dahill

Date: 12/10/24

Owners Project Manager

By: _____

Date: _____

GENERAL MECHANICAL CONTRACTORS, INC.
Consentino Middle School - PR-12 - Duct Risers
12-9-2024

Reason For Change: Attached are the additional HVAC costs associated with PR-12, which made changes to exhaust ductwork and dampers. Please see the following breakdown. Pricing is valid for 30 days. All work to be completed on normal working hours.

MATERIAL COSTS

Additional Materials	Cost per Unit	Total
Lot of duct material per original design		\$ (2,519.00)
Lot of duct material per PR-12		\$ 3,292.00
Net cost of damper changes		\$ 400.00
Total Additional Material Costs		\$ 773.00

LABOR COSTS

Additional Man Hours	Wage	Total
-45 manhours to install ductwork per original design	\$ 122.00	\$ (5,490.00)
66 manhours to install ductwork per PR-12	\$ 122.00	\$ 8,052.00
8 additional CAD drawing hours	\$ 150.00	\$ 1,200.00
Total Additional Labor Costs		\$ 3,762.00

SUB-TRADE CONTRACTOR COSTS

Sub-Trade Contractor	Cost
ATC	\$ 4,474.98
Total Sub-Trade Contractor Costs	\$ 4,474.98

Trade Contractor Overhead and Profit

Total Trade Contractor

Costs w/ OH & P = \$ 5,247.98 X 1.10 = \$ 5,772.78

Total Trade Contractors

Labor Costs: \$ 3,762.00

Bond Cost (.43%) \$ 41.19

Total Cost \$ 9,575.97

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield , MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER**No. CMS-034****TITLE: PR-12 RFI 57 EF Duct Chase****DATE: 10/15/2024****PROJECT: Dr. Albert B. Consentino Middle School****JOB: CSM-2024****TO: City of Haverhill
685 Washington Street
Haverhill, MA****CONTRACT NO:****DESCRIPTION OF CHANGE**

Costs associated with the attached for PR-12 RFI 57 EF Duct Chase.

Item	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	GMC Proposal	1	LS	\$4,632.23		\$0.00	\$4,632.23
2	Brait - OH&P - 5%	0	%	\$4,632.23		\$0.00	\$231.61
3	Brait - Bond - 2%	0	%	\$4,863.84		\$0.00	\$97.28

Lump Sum: \$4,961.12**Total:** \$4,961.12**ACCEPTED: Dore & Whittier****By:** _____**Date:** _____**ACCEPTED: City of Haverhill****By:** _____**Date:** _____**Brait Builders****By:**  _____

T.J. Dahill

Date: 10-15-24**ACCEPTED: Owners Project Manager****By:** _____**Date:** _____

GGD comments provided on the next page. Do not recommend approval at this time. - The engineer's comment about dampers did lead to an RFI and RFI response (attached to proposal). This response resulted in changes to damper counts, the costs of which are accounted for in this revised proposal.

DW: GMC to review and clarify 21 hours of increased scope for new ductwork. - General Mechanical performed sheet metal takeoffs of the original design and the redesign sketches with the same estimating software that it used at the time of bid. General Mechanical did review both of these takeoffs upon receipt of the PR-12 review, but did not discover any irregularities. The reports do provide a detailed accounting of what those takeoffs represent and General Mechanical is happy to go over them with the design team.

M#90916
J#894 117 00.00

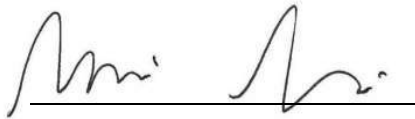
DATE: October 16, 2024

MEMO

TO: Michelle Barbaro-Rogers, AIA
Dore + Whittier

FROM: Mitchell Medeiros

Dominick B. Puniello, P.E., Principal



DEPT: HVAC

PROJECT: Consentino Middle School
Haverhill, Massachusetts

SUBJECT: PCO #034: EF Duct Chase

Please be advised as follows:

We have reviewed the General Mechanical Contractors, Inc. portion of Proposed Change Order No. 034 in the amount of \$4,632.23 for costs associated with PR-12 RFI 57-EF Duct Chase. We do not recommend approval at this time and offer the following:

- Revise original sheet metal takeoff fire damper quantity to 4, to match contract drawings.

If you have any questions regarding this information, please contact our office at your earliest convenience.

MM:md

Enc.

Cc. Tara King, Dore + Whittier

CONSENTINO MIDDLE SCHOOL - #21-0818

TO:	FROM:	RFI #:
Dore & Whittier Architects Inc. 260 Merrimac St., Bldg.7 Newburyport, MA 01950	Brait Builders	RFI - 141
Attn: Tara King	Reply Requested by: Jake McDonough	Issue Date: 10/28/24
RFI DESCRIPTION (Indicate origin of RFI, and summarize the question or type of information required):		
Sketches "JD-15" and "JD-16" attached to PR-012 indicate two different kinds of a life-safety dampers.		
Tag provided on ductwork indicate "FSD" which would be Fire Smoke Damper		
Call-out notes provided on sketches indicate "Fire Damper"		
Please clarify which type of life-safety dampers are required.		
REFERENCES (List relevant Drawings or Specification sections and paragraphs):		
SENDER'S RECOMMENDATION (All RFIs must include a contractor's recommended solution to each condition, including a statement of cost or schedule of impact if applicable. The contractor may be back-charged by the Owner for designer's review time for any RFI submitted without a sender's recommended solution or where response is evident in Drawings.)		
DESIGNER'S RESPONSE:		

Refer to attached Memo below from GGD.

BY:

DATE:

COPIES TO:

END OF SECTION

Request for Interpretation Form

01 30 01 - 1

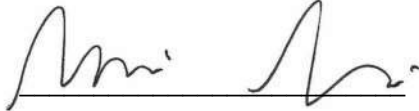
REQUEST FOR INFORMATION - RFI

M#91253
J#894 117 00.00

DATE: November 12, 2024

TO: Michelle Barbaro-Rogers, AIA
Dore + Whittier

FROM: Mitchell Medeiros



DEPT: HVAC

PROJECT: Consentino Middle School
Haverhill, Massachusetts

SUBJECT: RFI #141: GMC RFI-11 PR-12 Life Safety Damper Type Clarification

Question:

Sketches "JD-15" and "JD-16" attached to PR-012 indicate two different kinds of a life-safety dampers. Tag provided on ductwork indicate "FSD" which would be Fire Smoke Damper Call-out notes provided on sketches indicate "Fire Damper".

Please clarify which type of life-safety dampers are required.

Response:

The dampers penetrating the shaft walls horizontally shall be fire smoke dampers. The shaft floor penetration shall be a fire damper at the shaft floor penetrations between the level's 1 and 2.

MM:md

Enc.

Cc: Tara King, Dore + Whittier



Brait Builders Corporation
57 Rockwood Rd, Suite 3
Marshfield, Massachusetts 02050
P: +17818376400



Project: CMS Haverhill Middle School
685 Washington Street
Haverhill, Massachusetts 01830

RFI #141: CMS - RFI 141 - GMC RFI - 11 PR-12 Life Safety Damper Type Clarification

Status	Open		
To	Tara King (Dore and Whittier) Heather Gratton (Dore and Whittier)	From	Jake McDonough (Brait Builders Corporation)
Date Initiated	Oct 28, 2024	Due Date	Nov 26, 2024
Location	Project Stage		
Cost Impact	Schedule Impact		
Spec Section	Cost Code		
Drawing Number	Reference		
Linked Drawings			
Received From	Thomas Beauregard (General Mechanical Contractors, Inc.)		
Copies To	TJ Dahill (Brait Builders Corporation), Neil Dooney (Brait Builders Corporation), Heather Gratton (Dore and Whittier), Tara King (Dore and Whittier), Don Walter (Dore and Whittier)		

Activity

Question

Question from Jake McDonough Brait Builders Corporation on Monday, Oct 28, 2024 at 09:46 AM EDT

Sketches "JD-15" and "JD-16" attached to PR-012 indicate two different kinds of a life-safety dampers. Tag provided on ductwork indicate "FSD" which would be Fire Smoke Damper. Call-out notes provided on sketches indicate "Fire Damper". Please clarify which type of life-safety dampers are required.

Attachments

[CMS - RFI 141 - GMC RFI - 11 PR-12 Life Safety Damper Type Clarification.pdf](#)

Awaiting an Official Response

PROJECT:	AUTHOR:
DATE WRITTEN:	DUE DATE:
DRAWING NUMBER:	SPEC SECTION:

Question

Response

PROPOSAL REQUEST

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Owner | <input type="checkbox"/> Civil | <input type="checkbox"/> FF&E |
| <input checked="" type="checkbox"/> Architect | <input type="checkbox"/> Landscape | <input type="checkbox"/> Sustainability |
| <input checked="" type="checkbox"/> Contractor | <input type="checkbox"/> Geotech | <input type="checkbox"/> Acoustics |
| <input checked="" type="checkbox"/> O.P.M | <input type="checkbox"/> Structural | <input type="checkbox"/> Other |
| <input checked="" type="checkbox"/> CX Agent | <input checked="" type="checkbox"/> MEP-FP | <input type="checkbox"/> Other |



Project Name:	Haverhill Consentino Middle School	PR No.	012
Architect's Project No.	21-0818		
Owner:	City of Haverhill 4 Summer Street Haverhill, MA 01830	Architect:	DORE + WHITTIER 260 Merrimac St, Bldg 7, Newburyport, MA 01950
To:	Brait Builders Corporation 57 Rockwood Road Marshfield, MA 02050	Contract Date	4/1/2024
		Issue Date:	6/26/2024
Attention:	TJ Dahill	Subject:	RFI 57 – EF Duct Chase

Please submit an itemized quotation for changes in the Contract Sum and/ or Time incidental to proposed modifications to the Contract documents described herein.

THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN.

To coordinate with RFI 57, make the following revisions:

At Sheet A1.21, Level 2 Area B, add shaft walls in Cust Closet 2064 to accommodate EF ducts as shown on the attached sketch **JD-18**. Make similar revisions to A1.11, A1.31, and A1.41 Custodial closet.

At Sheet A1.52, revise detail F19 as shown on the attached sketch **JD-19**.

At Sheet M1.11, HVAC – Fire Floor Plan – Area A / B Ductwork and Sheet M1.21, HVAC – Second Floor Plan – Area A / B Ductwork, revise layouts as shown on attached sketch **JD-15**.

At Sheet M1.31, HVAC – Third Floor Plan – Area A / B Ductwork and Sheet M1.41, HVAC – Fourth Floor Plan – Area A / B Ductwork, revise layouts as shown on attached sketch **JD-16**.

At Sheet M3.11, Roof Plan – Area B, revise EF location as shown on attached sketch **JD-17**.

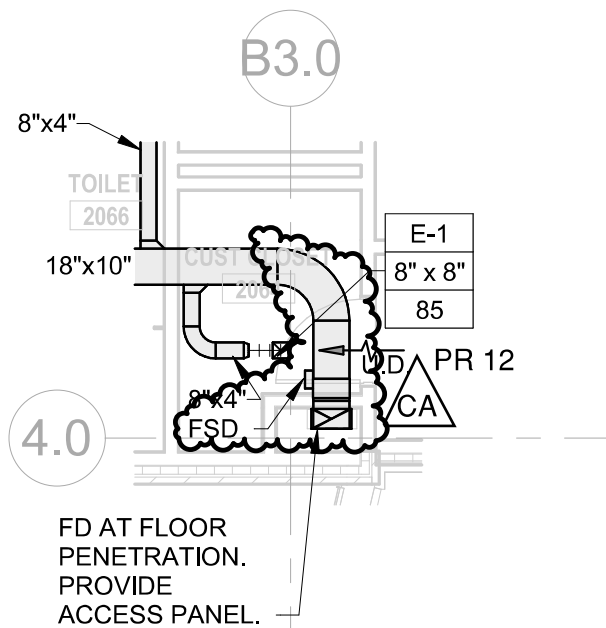
JD-15, JD-16, JD-17, JD-18, JD-19

Issued by

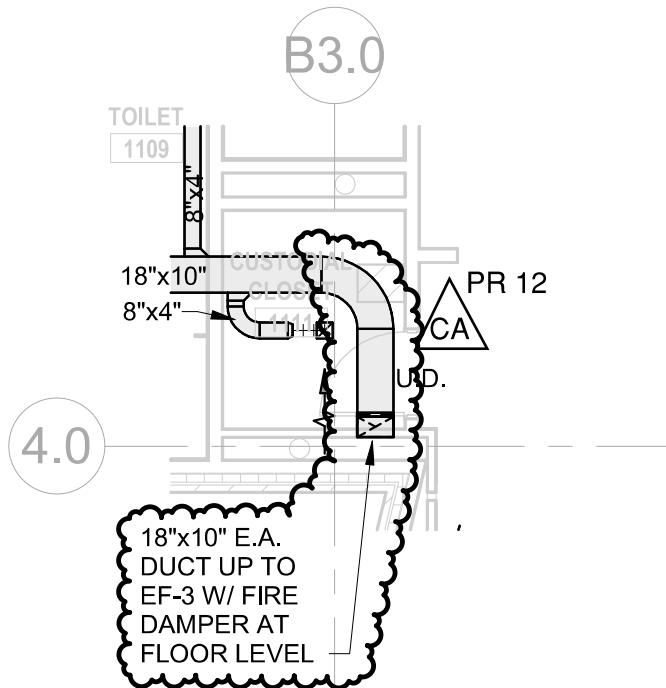
DORE + WHITTIER

Tara King

Copy: File, GGD, CX



② RFI #57 - SECOND FLOOR PLAN - AREA B - DUCT
1/8" = 1'-0"



① RFI #57 - FIRST FLOOR PLAN - AREA B - DUCT
1/8" = 1'-0"



GGD CONSULTING ENGINEERS, INC.
375 Faunce Corner Road, Suite D, Dartmouth, MA 02747-1258
p: 508-998-5700 • f: 508-998-0883 • E-MAIL: info@g-g-d.com

REF M1.31/M1.41

Copyright © 2024 by Dore and Whittier Architects, Inc. (D+W)

**CONSENTINO MIDDLE SCHOOL
685 WASHINGTON STREET
HAVERHILL, MA**

Project No.
21-0818

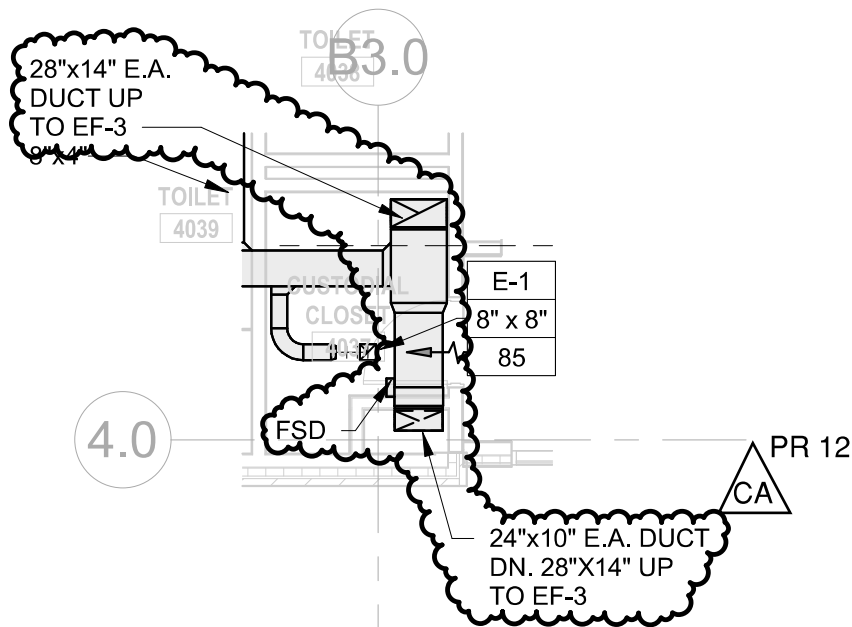


Burlington, VT 05401 (802) 863-1428	Date	06/26/24
Newburyport MA 01950 (978) 499-2999	Scale	1/8" = 1'-0"
doreandwhittier.com		

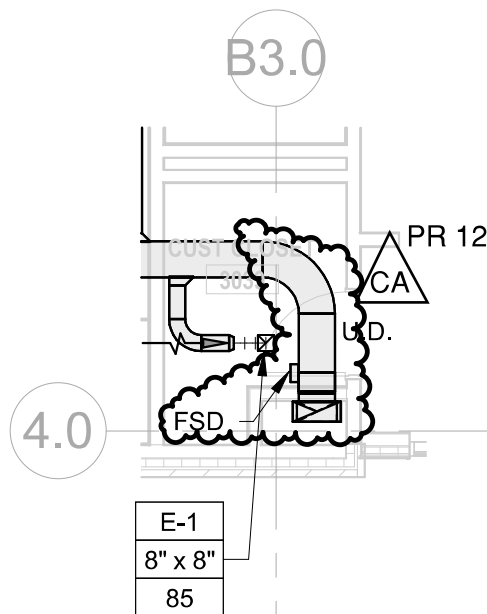
Sheet Title

**RFI #57/PR #12 -
REVISIONS TO EF-3
EXHAUST DUCT**

JD-15



② RFI #57 - FOURTH FLOOR PLAN - AREA B - DUCT
1/8" = 1'-0"



① RFI #57 - THIRD FLOOR PLAN - AREA B - DUCT
1/8" = 1'-0"



GGDCONSULTING ENGINEERS, INC.
375 Faunce Corner Road, Suite D, Dartmouth, MA 02747-1258
p: 508-998-5700 • f: 508-998-0883 • E-MAIL: info@g-g-d.com

REF M1.11/M1.21

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CONSENTINO MIDDLE SCHOOL
685 WASHINGTON STREET
HAVERHILL, MA

Project No.
21-0818



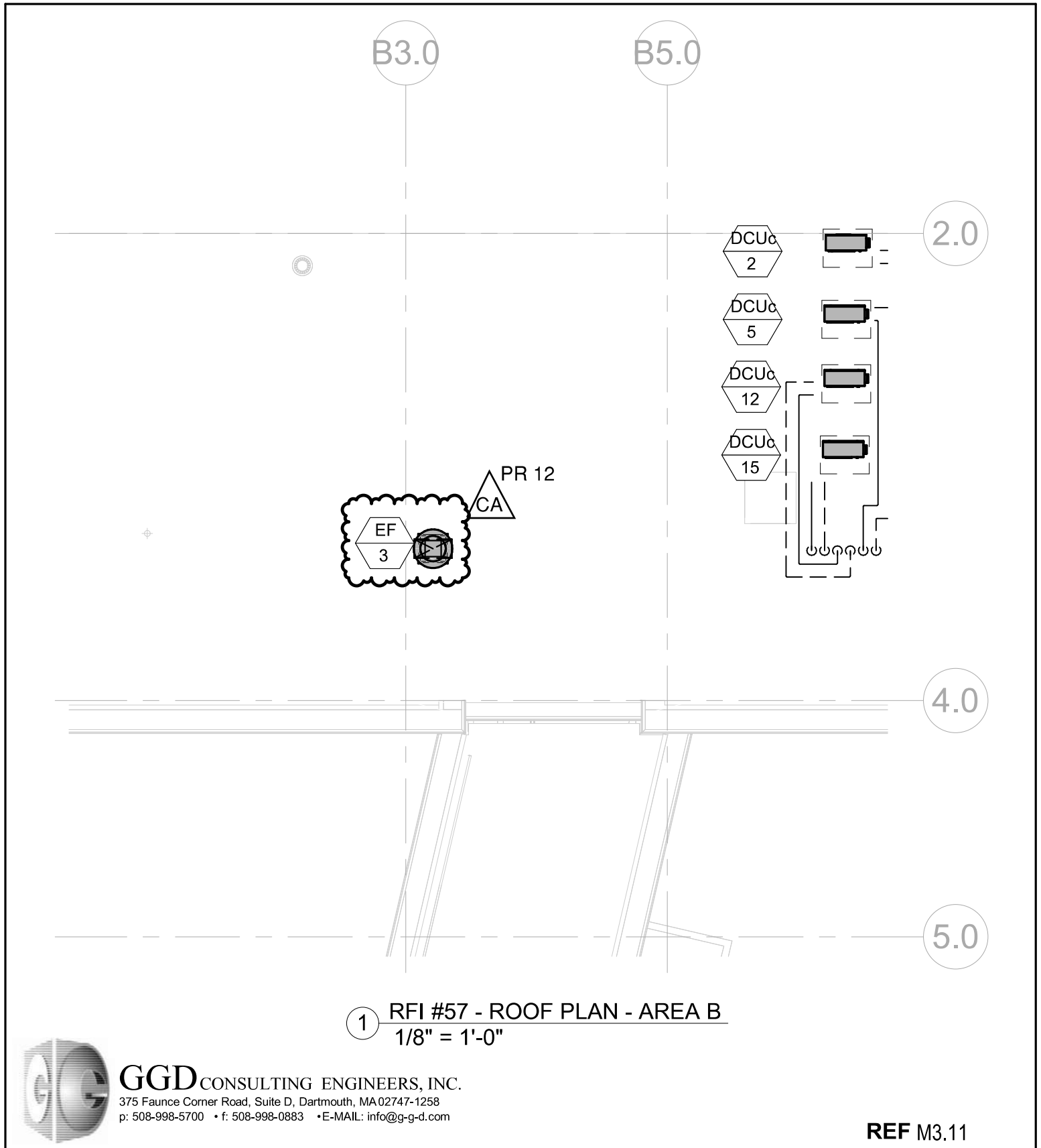
Burlington, VT 05401
(802) 863-1428
Newburyport MA 01950
(978) 499-2999
doreandwhittier.com

Date
06/26/24
Scale
1/8" = 1'-0"

Sheet Title

RFI #57/PR #12 - REVISIONS TO
EF-3 EXHAUST DUCT

JD-16



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CONSENTINO MIDDLE SCHOOL
685 WASHINGTON STREET
HAVERHILL, MA

Project No.
21-0818



Burlington, VT 05401
(802) 863-1428
Newburyport MA 01950
(978) 499-2999
doreandwhittier.com

Date
06/26/24
Scale
1/8" = 1'-0"

Sheet Title
RFI #57/PR #12 - REVISIONS TO
EF-3 EXHAUST DUCT

JD-17

Recap Report

Printed: 7/10/2024 1:52:23 PM

Full Recaps

General Mechanical Contractors

Project Name: (HaverConsen) Haverhill Consentino Middle Schoo

Bid Date: 3/12/2024

Base Bid/Alternate: Base Bid

Scopes included: Drawing: M1.11, M1.21, M1.31, M1.41
System: <All>
Spec: <All>
Floor: <All>
Zone: PR 12 Original Deduct
SysSymbol: <All>

**ORIGINAL SHEET METAL
TAKEOFF**

Project Calculation Log

Calculations date: 7/10/2024 1:48:31 PM
Calculations were run with AutoBid version: 2021.1.0
Labor Book: By Pound (& Piece)
Wage Table: QP2
Non-GTO: adjusting digitized duct for fittings; NOT adjusting non-digitized duct for fittings
Rect Duct: NOT dropping short pieces; NOT converting short pieces to full
Rnd Duct: NOT dropping short pieces; NOT converting short pieces to full
Oval Duct: NOT dropping short pieces; NOT converting short pieces to full
NOT calculating detailing
NOT calculating pressure testing
Using insulation
Looking up tap material thickness separate from body/reducer
TakeOff lines: 8090 - Items processed: 7674
Errors: 0, Warnings: 0, Hints: 5

Name:
Full Recaps

Recap Report
Full Recaps
Project Grand Totals

7/10/2024 1:52:22 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Description	Material			Labor			
	Weight (lb)	Weight w/ wst	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Ductwork	169	189	\$1,094	19	19	37	38
Library Items				0		5	7
Grand Total	169	189	\$1,094*	19	19	42	45

* Excludes Quotes

Recap Report

Full Recaps

Ductwork Totals

7/10/2024 1:52:22 PM

Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Description	Material			Labor			
	Weight (lb)	Weight w/ wst	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Material							
Light Aluminum	169	189	\$1,094	19	19	37	38
Total	169	189	\$1,094	19	19	37	38

Recap Report
Full Recaps
Ductwork (Material Totals)

7/10/2024 1:52:21 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Light Aluminum

Description	Material			Labor			
	Weight (lb)	Weight w/ wst	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Fabricated							
Rectangular	169	189	\$1,094	19	19	37	38
Alum LP	169	189	\$1,094	19	19	37	38
Fabricated	169	189	\$1,094	19	19	37	38
Total	169	189	\$1,094	19	19	37	38

Recap Report Full Recaps Ductwork (Section Totals)

7/10/2024 1:52:18 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description	Material										Labor			
	Quantity	% of Qty	Length (ft)	Area (sq ft)	Area w/ wst	Avg. wt/each	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Duct and Fittings														
Full Length	8	30%	37	228	249	9.03	72	79		\$262	4	4	12	13
Short Pieces	11	41%	22	137	150	3.89	43	47		\$156	4	4	11	11
Fittings	8	30%		121	147	4.63	37	45		\$151	8	8	10	10
Duct and Fittings	27		59	486	546		152	171		568	16	16	32	34
Connectors and their Reinforcing														
Connectors	88		112							\$414	1	1	0	
Connectors and their Reinforcing	88		112							414	1	1		
Hangers														
Lower/Vertical Support	11						17	18		\$28	0		5	5
Upper Support	11									\$5	0		0	
Hangers							17	18		33			5	5
Sealer, Flex Connectors and Turning Vanes														
Turning Vanes										\$78	2	2	0	
Sealer, Flex Connectors and Turning Vanes										78	2	2		
Total							169	189		\$1,094	19	19	37	38

Recap Report

Full Recaps

Ductwork (Section Details)

7/10/2024 1:52:17 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description	Material										Labor			
	Quantity	Waste %	Length (ft)	Area (sq ft)	Area w/ wst	Weight Factor	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Duct and Fittings														
Alum LP														
24 ga														
Full Length	5.00	9%	23.33	126.87	138.29	0.28	36.03	39.28	\$3.330	\$130.79	2.14	2.14	6.20	7.49
Short Pieces	9.00	9%	14.28	84.26	91.85	0.28	23.93	26.08	\$3.330	\$86.86	2.14	2.14	6.11	6.11
Fittings	6.00	22%		83.09	101.37	0.28	23.60	28.79	\$3.330	\$95.87	5.58	5.58	6.48	6.48
22 ga														
Full Length	3.00	9%	14.00	101.46	110.59	0.36	36.22	39.48	\$3.330	\$131.47	1.80	1.80	5.70	5.70
Short Pieces	2.00	9%	7.50	52.98	57.75	0.36	18.91	20.62	\$3.330	\$68.65	1.41	1.41	4.45	4.45
Fittings	2.00	22%		37.75	46.05	0.36	13.48	16.44	\$3.330	\$54.75	2.83	2.83	3.50	3.50

Recap Report
Full Recaps
Ductwork (Section Details)

7/10/2024 1:52:17 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description	Material									Labor			
Connectors and their Reinforcing	Quantity	Waste %	Length (ft)	Length w/ wst	Weight Factor	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Connectors													
Alum TDC	88.00		112.33						\$414.45	0.88	0.88	0.00	
Alum TDC Cleats: 6	158.00							\$0.560	\$88.48				
Alum TDC Corners: Alum TDC	176.00							\$1.700	\$299.20				
TDC Gasket: DM Sticky Butyl		10%	114.17	125.58				\$0.080	\$10.05				
Zinc Chromate Nuts: 3/8	88.00							\$0.130	\$11.44				
Zinc Plated Bolts: 3/8 x 3/4	88.00							\$0.060	\$5.28				
Total									\$414	1	1		

Recap Report
Full Recaps
Ductwork (Section Details)

7/10/2024 1:52:18 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description	Material									Labor			
	Quantity	Waste %	Length (ft)	Length w/ wst	Weight Factor	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Hangers													
Lower/Vertical Support													
Galv1x18ga Strap	11.00					16.81	18.49		\$27.73	0.05	0.05	4.70	4.70
#10 Fast PenetrScrw: 3/4	66.00												
Galvanized Strap: 1 x 18ga	22.00	10%	93.50	102.85	0.18	16.81	18.49	\$0.270	\$27.73	0.05	0.05		
Upper Support													
Strap Attachment (I-Beam)	11.00								\$5.34	0.00		0.00	
I-Beam Clamp: 3/8	11.00							\$0.485	\$5.34				
Lower/Vertical Support	11					17	18		\$28			5	5
Upper Support	11								\$5				
Total						17	18		\$33			5	5

Recap Report
Full Recaps
Ductwork (Section Details)

7/10/2024 1:52:18 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description	Material								Labor				
Sealer, Flex Connectors and Turning Vanes	Quantity	Waste %	Length (ft)	Length w/ wst	Weight Factor	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Turning Vanes													
Galv 4" Dbl Vane									\$77.81	2.12	2.12	0.00	
Rail - Galv: 4" Double	16.00	10%	34.37	37.81				\$0.790	\$29.87	0.45	0.45		
Vane - Galv: 4" Double	59.00	10%	55.17	60.68				\$0.790	\$47.94	1.67	1.67		
Total									\$78	2	2		

Recap Report
Full Recaps
Library Totals

7/10/2024 1:52:22 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Description	Material		Labor			
	Weight (lb)	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Library						
Duct Accessory Items			0		5	7
Total					5	7

Recap Report
Full Recaps
Library Items

7/10/2024 1:52:22 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Description	Material							Labor			
	Quantity	Length (ft)	Area	Weight Factor	Weight (lb)	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Duct Accessory Items											
Damper - Fire/Smoke											
Rect Fire Dmpr	3.00							0.00		5.02	6.59
20 x 10	1.00									1.67	2.24
24 x 10	1.00									1.67	2.11
28 x 14	1.00									1.67	2.24
Total										5	7

Recap Report

Printed: 7/10/2024 1:54:58 PM

Full Recaps

General Mechanical Contractors

Project Name: (HaverConsen) Haverhill Consentino Middle Schoo
Bid Date: 3/12/2024
Base Bid/Alternate: Base Bid
Scopes included: Drawing: PR 12 - RFI 57 JD-15, PR 12 - RFI 57 JD-16
System: <All>
Spec: <All>
Floor: <All>
Zone: PR12 New Layout
SysSymbol: <All>

**PR-12 SHEET METAL
TAKEOFF**

Project Calculation Log

Calculations date: 7/10/2024 1:48:31 PM
Calculations were run with AutoBid version: 2021.1.0
Labor Book: By Pound (& Piece)
Wage Table: QP2
Non-GTO: adjusting digitized duct for fittings; NOT adjusting non-digitized duct for fittings
Rect Duct: NOT dropping short pieces; NOT converting short pieces to full
Rnd Duct: NOT dropping short pieces; NOT converting short pieces to full
Oval Duct: NOT dropping short pieces; NOT converting short pieces to full
NOT calculating detailing
NOT calculating pressure testing
Using insulation
Looking up tap material thickness separate from body/reducer
TakeOff lines: 8090 - Items processed: 7674
Errors: 0, Warnings: 0, Hints: 5

Name:
Full Recaps

Recap Report
Full Recaps
Project Grand Totals

7/10/2024 1:54:58 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Description	Material			Labor			
	Weight (lb)	Weight w/ wst	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Ductwork	237	264	\$1,417	25	25	53	59
Library Items				0		7	7
Grand Total	237	264	\$1,417*	25	25	60	66

* Excludes Quotes

Recap Report

Full Recaps

Ductwork Totals

7/10/2024 1:54:57 PM

Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Description	Material			Labor			
	Weight (lb)	Weight w/ wst	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Material							
Light Aluminum	237	264	\$1,417	25	25	53	59
Total	237	264	\$1,417	25	25	53	59

Recap Report
Full Recaps
Ductwork (Material Totals)

7/10/2024 1:54:57 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Light Aluminum

Description	Material			Labor			
	Weight (lb)	Weight w/ wst	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Fabricated							
Rectangular	237	264	\$1,417	25	25	53	59
Alum LP	237	264	\$1,417	25	25	53	59
Fabricated	237	264	\$1,417	25	25	53	59
Total	237	264	\$1,417	25	25	53	59

Recap Report

Full Recaps

Ductwork (Section Totals)

7/10/2024 1:54:54 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description	Material										Labor			
	Quantity	% of Qty	Length (ft)	Area (sq ft)	Area w/ wst	Avg. wt/each	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Duct and Fittings														
Full Length	9	26%	42	256	279	9.14	82	90		\$299	4	4	14	17
Short Pieces	16	46%	48	285	311	5.52	88	96		\$321	7	7	22	24
Fittings	10	29%		130	159	4.11	41	50		\$167	10	10	11	12
Duct and Fittings	35		90	672	749		212	236		786	22	22	47	52
Connectors and their Reinforcing														
Connectors	104		140							\$501	1	1	0	
Connectors and their Reinforcing	104		140							501	1	1		
Hangers														
Lower/Vertical Support	15						25	28		\$41	0		6	7
Upper Support	15									\$7	0		0	
Hangers							25	28		49			6	7
Sealer, Flex Connectors and Turning Vanes														
Turning Vanes										\$81	2	2	0	
Sealer, Flex Connectors and Turning Vanes										81	2	2		
Total							237	264		\$1,417	25	25	53	59

Recap Report

Full Recaps

Ductwork (Section Details)

7/10/2024 1:54:53 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description	Material										Labor			
	Quantity	Waste %	Length (ft)	Area (sq ft)	Area w/ wst	Weight Factor	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Duct and Fittings														
Alum LP														
24 ga														
Full Length	5.00	9%	23.33	125.21	136.48	0.28	35.56	38.76	\$3.330	\$129.07	2.11	2.11	6.12	6.98
Short Pieces	11.00	9%	34.03	185.04	201.69	0.28	52.55	57.28	\$3.330	\$190.74	4.69	4.69	13.42	13.90
Fittings	6.00	22%		73.37	89.51	0.28	20.84	25.42	\$3.330	\$84.65	5.42	5.42	5.61	5.61
22 ga														
Full Length	4.00	9%	18.67	130.83	142.61	0.36	46.71	50.91	\$3.330	\$169.53	2.32	2.32	7.39	9.90
Short Pieces	5.00	9%	13.90	100.28	109.30	0.36	35.80	39.02	\$3.330	\$129.94	2.68	2.68	8.43	9.70
Fittings	4.00	22%		56.86	69.36	0.36	20.30	24.76	\$3.330	\$82.46	4.78	4.78	5.60	6.15
Full Length	9		42	256	279		82	90		\$299	4	4	14	17
Short Pieces	16		48	285	311		88	96		\$321	7	7	22	24
Fittings	10			130	159		41	50		\$167	10	10	11	12
Total	35		90	672	749		212	236		\$786	22	22	47	52

Recap Report
Full Recaps
Ductwork (Section Details)

7/10/2024 1:54:53 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description	Material									Labor			
Connectors and their Reinforcing	Quantity	Waste %	Length (ft)	Length w/ wst	Weight Factor	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Connectors													
Alum TDC	104.00		140.33						\$501.26	1.10	1.10	0.00	
Alum TDC Cleats: 6	206.00							\$0.560	\$115.36				
Alum TDC Corners: Alum TDC	208.00							\$1.700	\$353.60				
TDC Gasket: DM Sticky Butyl		10%	142.50	156.75				\$0.080	\$12.54				
Zinc Chromate Nuts: 3/8	104.00							\$0.130	\$13.52				
Zinc Plated Bolts: 3/8 x 3/4	104.00							\$0.060	\$6.24				
Total									\$501	1	1		

Recap Report Full Recaps Ductwork (Section Details)

7/10/2024 1:54:54 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description		Material								Labor			
	Quantity	Waste %	Length (ft)	Length w/ wst	Weight Factor	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Hangers													
Lower/Vertical Support													
Galv1x18ga Strap	15.00					25.07	27.58		\$41.37	0.07	0.07	6.41	6.56
#10 Fast PenetrScrw: 3/4	90.00												
Galvanized Strap: 1 x 18ga	30.00	10%	139.50	153.45	0.18	25.07	27.58	\$0.270	\$41.37	0.07	0.07		
Upper Support													
Strap Attachment (I-Beam)	15.00								\$7.28	0.00		0.00	
I-Beam Clamp: 3/8	15.00							\$0.485	\$7.28				
Summary													
Lower/Vertical Support	15					25	28		\$41			6	7
Upper Support	15								\$7				
Total						25	28		\$49			6	7

Recap Report
Full Recaps
Ductwork (Section Details)

7/10/2024 1:54:54 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo
Light Aluminum (Fabricated)
Rectangular - Alum LP

Description	Material									Labor			
Sealer, Flex Connectors and Turning Vanes	Quantity	Waste %	Length (ft)	Length w/ wst	Weight Factor	Weight (lb)	Weight w/ wst	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Turning Vanes													
Galv 4" Dbl Vane									\$80.56	2.32	2.32	0.00	
Rail - Galv: 4" Double	16.00	10%	28.54	31.40				\$0.790	\$24.80	0.37	0.37		
Vane - Galv: 4" Double	49.00	10%	64.17	70.58				\$0.790	\$55.76	1.95	1.95		
Total									\$81	2	2		

Recap Report
Full Recaps
Library Totals

7/10/2024 1:54:58 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Description	Material		Labor			
	Weight (lb)	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Duct Accessory Items			0		7	7
Total					7	7

Recap Report
Full Recaps
Library Items

7/10/2024 1:54:58 PM
Errors: 0, Warnings: 0, Hints: 5

Haverhill Consentino Middle Schoo

Description	Material							Labor			
	Quantity	Length (ft)	Area	Weight Factor	Weight (lb)	Unit Cost	Total Cost (Material)	Shop Hours	Adjusted Shop Hrs	Field Hours	Adjusted Field Hrs
Duct Accessory Items											
Damper - Fire/Smoke											
Rect Fire Dmpr	4.00							0.00		6.70	6.70
18 x 10	3.00									5.02	5.02
24 x 10	1.00									1.67	1.67
Total										7	7

Buckley Associates, Inc.

385 King Street • P.O. Box 1410
Hanover, MA 02339
(781) 878-5000
Fax (781) 871-9435



Quote Number **215619**
Bid Date 12/09/2024
Estimator Brian Lussier / 781-563-4383
Email blussier@buckleyonline.com

QUOTATION

Project **CONSENTINO RFI-141 QUOTE**
Location HAVERHILL, MA
Plan Date 12/09/2024
Engineer No Assigned Engineer
Addendum PR-12

Qty	Product	Description	Price
-----	---------	-------------	-------

SHEET METAL PRODUCTS

4	FIRE/SMOKE DAMPER	ADDITIONAL COST REQUIRED FOR UPDATING (3) FIRE DAMPERS TO COMBINATION FIRE/SMOKE DAMPERS WITH UPDATED SIZES PER LATEST RFI	\$400
---	-------------------	--	-------

Sheet Metal Notes

Unless specifically noted, all registers, grilles, and diffusers are quoted with standard white finish. All diffusers that have t-bar lay-in panels are quoted for standard 15/16 inch ceiling grid. If any type of supply diffuser or return grille is to require a sheet rock frame please add \$33 each for a 2'x2' frame and \$59 for a 4'x2' frame. Above pricing does not include cable operated dampers. If any are required, please add \$128 for each damper assembly. Filter grille pricing does not include the cost of the filters.

Terms & Conditions

The above quotation is based on standard factory lead times and a one time release unless specifically noted. Any changes or cancellations made to orders after release may be subject to additional fees. The above quotation is valid for 30 days from the date of the quote. Prices do not include local sales tax. Prices include standard ground freight. All standard terms and conditions of Buckley Associates or the manufacturer responsible for the billing applies. (Copy provided upon request)

QUOTATION TOTAL	\$ 400
------------------------	---------------

Delta Controls AUTOMATIC TEMPERATURE CONTROLS – CHANGE ORDER PROPOSAL

Date: November 26, 2024

Michael Tomasino
General Mechanical Contractors, Inc.
29A Sword Street
Auburn, MA 01501

Project: The Dr Consentino Middle School, PR-12 Fire/Smoke Dampers

Thank you for giving us the opportunity to quote you on the following:

Per PR-12:

- RPO will provide, install and wire DDC controllers, end-switches, transformers, enclosures & cable to monitor (2) additional Fire/Smoke Dampers.

Material Costs.....\$1,034.58

Labor Costs..... \$3,440.40

Total..... \$4,474.98

Includes:

Programming, Engineering & Commissioning

The following clarifications/exclusions apply:

- All work to be done during normal working hours (7:00am-3:30pm)
- All wiring to be installed using plenum rated cable where concealed and in EMT where exposed, mechanical rooms, and outside.
- Installation of Valves, Flow Meters/Stations, Smoke Detectors (div 16), VFD's, Contactors, Disconnect switches, motion sensors, Dampers, Smoke Dampers, Fire Smoke Dampers, Smoke Damper Actuators and Wells by others.

Thank you for the opportunity to be of service to you on this project. We trust that you will find the above satisfactory. If there are any questions, please do not hesitate to contact me at (office) 508-650-9400 (mobile) 508-889-5120.

Best Regards,

R.P.O'Connell, Inc.

Randy Dale

V.P. Automatic Temperature Controls Division

PROPOSAL REQUEST

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Owner | <input type="checkbox"/> Civil | <input type="checkbox"/> FF&E |
| <input checked="" type="checkbox"/> Architect | <input type="checkbox"/> Landscape | <input type="checkbox"/> Sustainability |
| <input checked="" type="checkbox"/> Contractor | <input type="checkbox"/> Geotech | <input type="checkbox"/> Acoustics |
| <input checked="" type="checkbox"/> O.P.M | <input type="checkbox"/> Structural | <input type="checkbox"/> Other |
| <input checked="" type="checkbox"/> CX Agent | <input checked="" type="checkbox"/> MEP-FP | <input type="checkbox"/> Other |



Project Name:	Haverhill Consentino Middle School	PR No.	012
Architect's Project No.	21-0818		
Owner:	City of Haverhill 4 Summer Street Haverhill, MA 01830	Architect:	DORE + WHITTIER 260 Merrimac St, Bldg 7, Newburyport, MA 01950
To:	Brait Builders Corporation 57 Rockwood Road Marshfield, MA 02050	Contract Date	4/1/2024
		Issue Date:	6/26/2024
Attention:	TJ Dahill	Subject:	RFI 57 – EF Duct Chase

Please submit an itemized quotation for changes in the Contract Sum and/ or Time incidental to proposed modifications to the Contract documents described herein.

THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN.

To coordinate with RFI 57, make the following revisions:

At Sheet A1.21, Level 2 Area B, add shaft walls in Cust Closet 2064 to accommodate EF ducts as shown on the attached sketch **JD-18**. Make similar revisions to A1.11, A1.31, and A1.41 Custodial closet.

At Sheet A1.52, revise detail F19 as shown on the attached sketch **JD-19**.

At Sheet M1.11, HVAC – Fire Floor Plan – Area A / B Ductwork and Sheet M1.21, HVAC – Second Floor Plan – Area A / B Ductwork, revise layouts as shown on attached sketch **JD-15**.

At Sheet M1.31, HVAC – Third Floor Plan – Area A / B Ductwork and Sheet M1.41, HVAC – Fourth Floor Plan – Area A / B Ductwork, revise layouts as shown on attached sketch **JD-16**.

At Sheet M3.11, Roof Plan – Area B, revise EF location as shown on attached sketch **JD-17**.

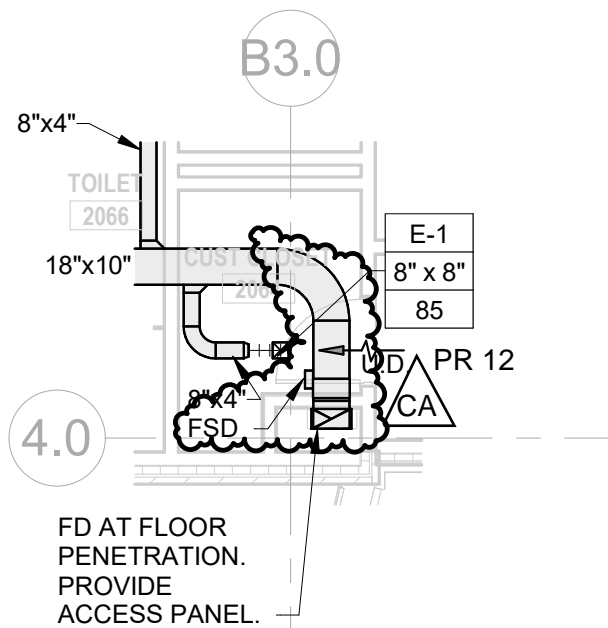
JD-15, JD-16, JD-17, JD-18, JD-19

Issued by

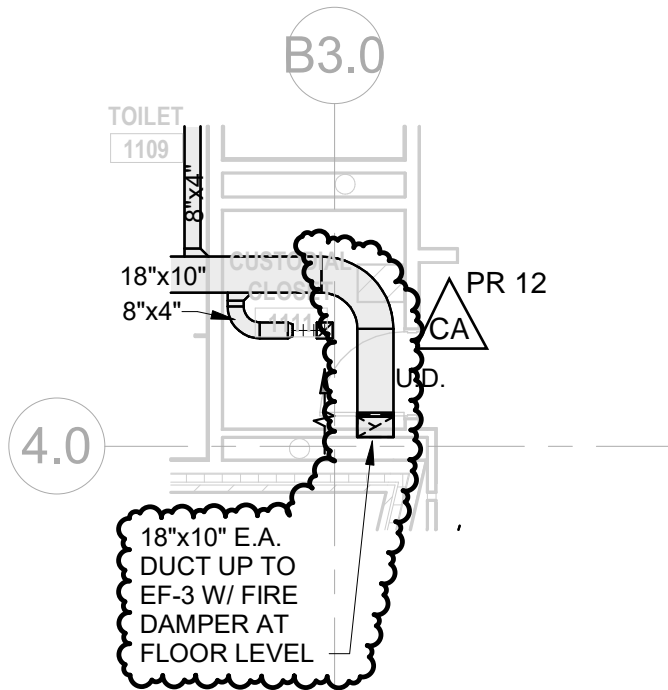
DORE + WHITTIER

Tara King

Copy: File, GGD, CX



② RFI #57 - SECOND FLOOR PLAN - AREA B - DUCT
1/8" = 1'-0"



① RFI #57 - FIRST FLOOR PLAN - AREA B - DUCT
1/8" = 1'-0"



GGD CONSULTING ENGINEERS, INC.
375 Faunce Corner Road, Suite D, Dartmouth, MA 02747-1258
p: 508-998-5700 • f: 508-998-0883 • E-MAIL: info@g-g-d.com

REF M1.31/M1.41

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**CONSENTINO MIDDLE SCHOOL
685 WASHINGTON STREET
HAVERHILL, MA**

Project No.
21-0818

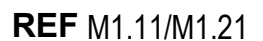
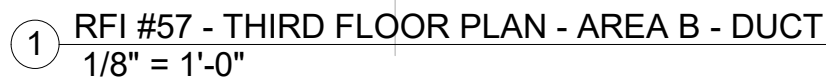


Burlington, VT 05401 (802) 863-1428	Date	06/26/24
Newburyport MA 01950 (978) 499-2999	Scale	1/8" = 1'-0"
doreandwhittier.com		

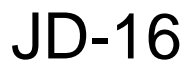
Sheet Title

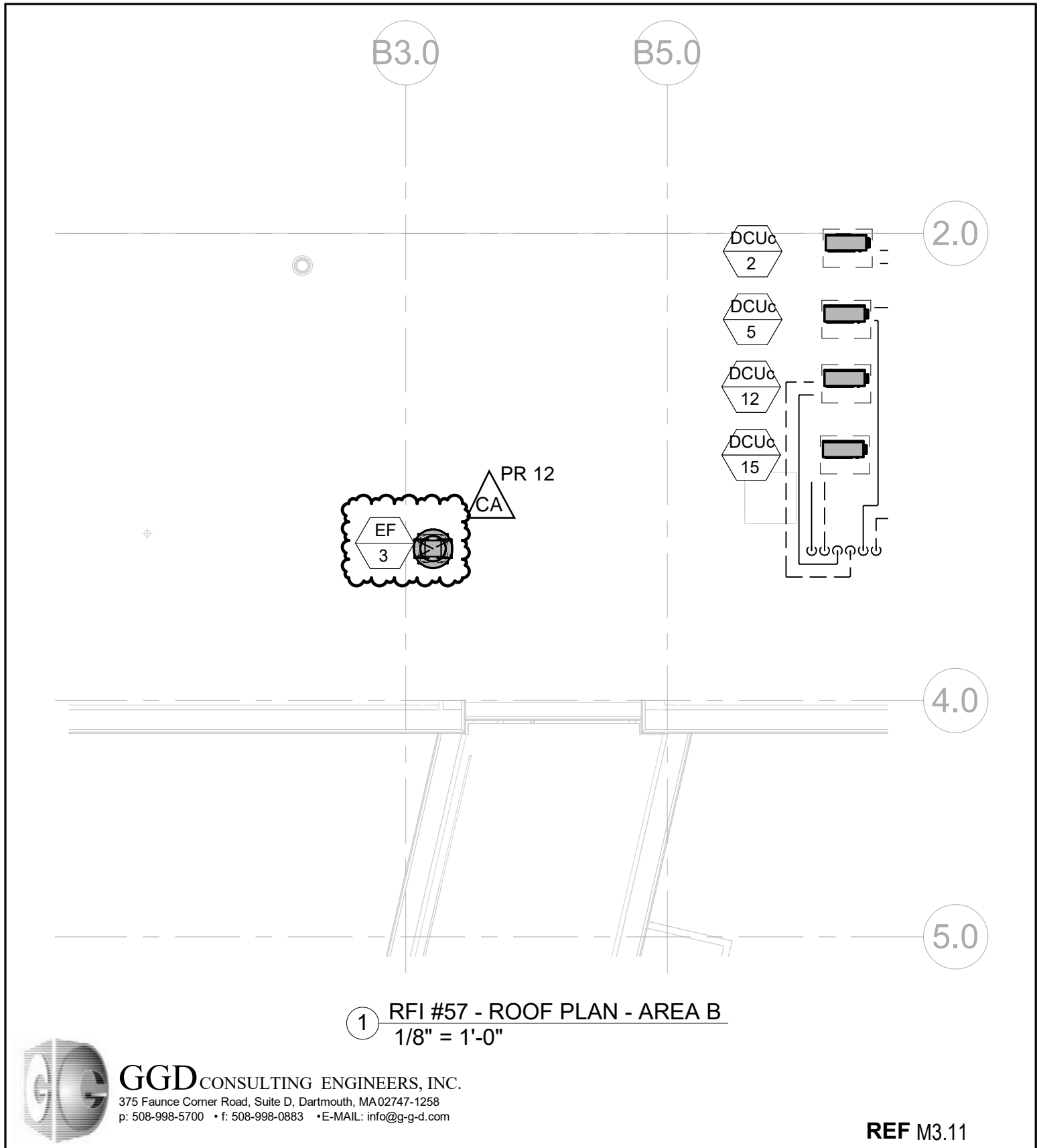
**RFI #57/PR #12 -
REVISIONS TO EF-3
EXHAUST DUCT**

JD-15



Project No.
21-0818





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375 Faunce Corner Road, Suite D, Dartmouth, MA 02747-1258
p: 508-998-5700 • f: 508-998-0883 • E-MAIL: info@g-g-d.com

REF M3.11

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**CONSENTINO MIDDLE SCHOOL
685 WASHINGTON STREET
HAVERHILL, MA**

Project No.
21-0818



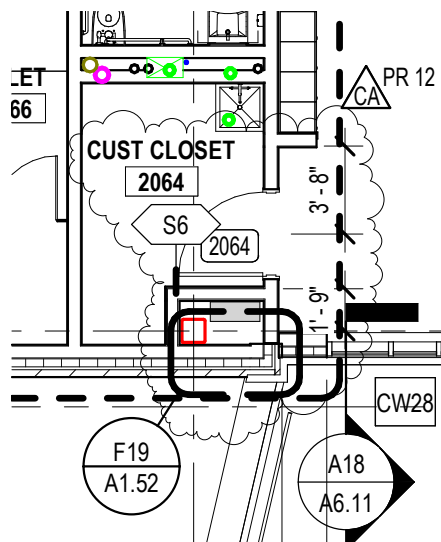
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Newburyport MA 01950
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doreandwhittier.com

Date
06/26/24
Scale
1/8" = 1'-0"

Sheet Title

RFI #57/PR #12 - REVISIONS TO
EF-3 EXHAUST DUCT

JD-17



M26 LEVEL 2 - AREA B
1/8" = 1'-0"

REF:

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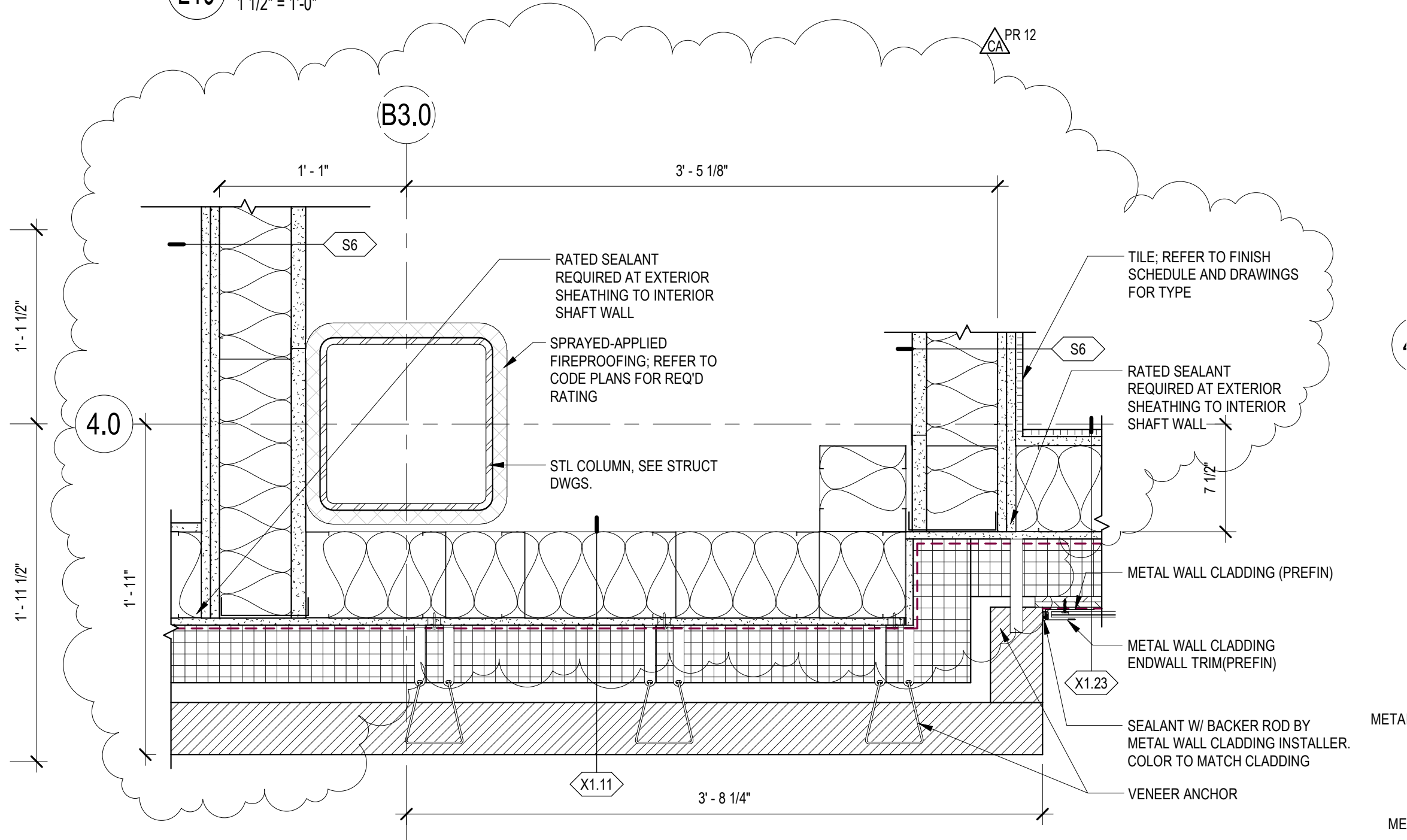
doreandwhittier.com

Date

Scale

Sheet Title

L19 PLAN DETAIL - X1.23 AT GRID A3.0 / 5.0
 1 1/2" = 1'-0"



F19 PLAN DETAIL - X1.11 / X1.23 INSIDE CORNER AT GRID B3.0 / 4.0
 1 1/2" = 1'-0"

REF:

Project No.

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Sheet Title

Date

Burlington, VT 05401
 (802) 863-1428

Scale

Newburyport MA 01950
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PCO REVIEW FORM

Project Name: **Haverhill Consentino Middle School**

PCO No.



Architect's Project No. **21-0818**

Subject: **Radiant Panel Piping**

PCO Issue Date: **2024.12.11**

PCO Reviewed: **2024.12.23**

The following is a summary of the Design Team review of the above referenced Proposed Change Order (PCO). Refer to summary below *and* attached comments. Acceptance of this PCO – or partial acceptance – shall not constitute a change to the construction contract or a directive to proceed with the work. PCO review is only a recommendation to the Owner regarding the validity and cost of the proposed PCO. Final approval shall be by the Owner per contract.

CATEGORY					
Elective / Owner		Town/AHJ/Other		Unforeseen	
Design	X	Other		GC Expenditure	

PCO shall be reviewed by each consultant with relevant work included:

Reviewed	Revise	Rejected	Consultant:	Reviewer:	Comments:
X			Architectural:	T. King / M. Rogers	D+W has reviewed the attached PCO finds the fees to be fair and reasonable
			Site/Civil:		
			Traffic:		
			Geotechnical:		
			Landscape:		
			Wetlands:		
			Haz Materials:		
			Structural:		
			Acoustical:		
			Foodservice:		
			Fire Protection:		
			Plumbing:		
X			HVAC:	GGD	Fees appear fair and reasonable
			Electrical:		
			Lighting:		
			Telecomm:		
			Building Security:		
			Audio-Visual:		
			Theatrical:		
			Door Hardware:		
			Sustainability		
			Other:		

Michele Barbaro-Rogers

Michele Barbaro-Rogers
Digitally signed by Michele Barbaro-Rogers
DN: c=US, e=mrogers@doreandwhittier.com,
CN=Michele Barbaro-Rogers
Reason: I have reviewed this document
Date: 2024.12.23 16:34:12-0500

X	Design Team Recommends Approval
	Design Team Does Not Recommend Approval

Brait Builders Corp.


57 Rockwood Road
Suite 3
Marshfield, MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER**No. CMS-048****TITLE: PR-36 RFI 132 Radiant Panel Piping****DATE: 12/11/2024****PROJECT: Dr. Albert B. Consentino Middle
School****JOB: CSM-2024****TO: City of Haverhill
685 Washington Street
Haverhill, MA****CONTRACT NO:****DESCRIPTION OF CHANGE**

Costs associated with the attached for PR-36 RFI 132 Radiant Panel Piping.

Item	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	GMC Proposal	1	LS	\$4,036.40		\$0.00	\$4,036.40
2	Brait - OH&P - 5%	0	%	\$4,036.40		\$0.00	\$201.82
3	Brait - Bond - 2%	0	%	\$4,238.22		\$0.00	\$84.76

Lump Sum: \$4,322.98**Total: \$4,322.98****Dore & Whittier****By:** SEE COVER SHEET**Date:****City of Haverhill****By:** 
Stephen Dorrance**Date:** 1/5/25**Brait Builders****By:** 
T.J. Dahill**Date:** 12-11-24**Owners Project Manager****By:** 
Christina Mulligan**Date:** 1/2/24

Fair and reasonable, recommend approval

Brait Builders Corp.

57 Rockwood Road
Suite 3
Marshfield , MA 02050

Phone: (781) 837-6400
Fax: (781) 837-6153

PROPOSED CHANGE ORDER
No. CMS-048

TITLE: PR-36 RFI 132 Radiant Panel Piping

DATE: 12/11/2024

PROJECT: Dr. Albert B. Consentino Middle School

JOB: CSM-2024

TO: City of Haverhill
685 Washington Street
Haverhill, MA

CONTRACT NO:

DESCRIPTION OF CHANGE

Costs associated with the attached for PR-36 RFI 132 Radiant Panel Piping.

Item	Description	Quantity	Units	Unit Price	Labor Burden	Burden Amount	Net Amount
1	GMC Proposal	1	LS	\$4,036.40		\$0.00	\$4,036.40
2	Brait - OH&P - 5%	0	%	\$4,036.40		\$0.00	\$201.82
3	Brait - Bond - 2%	0	%	\$4,238.22		\$0.00	\$84.76

Lump Sum: \$4,322.98

Total: \$4,322.98

Dore & Whittier

By: _____

Date: _____

City of Haverhill

By: _____

Date: _____

Brait Builders

By: T.J. Dahill
T.J. Dahill

Date: 12-11-24

Owners Project Manager

By: _____

Date: _____

Fair and reasonable, recommend approval

M#91760
J#894 117 00.00

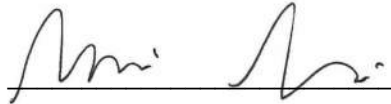
DATE: December 23, 2024

MEMO

TO: Michelle Barbaro-Rogers, AIA
Dore + Whittier

FROM: Mitchell Medeiros, Engineer

Dominic B. Puniello, P.E., Principal



DEPT: HVAC

PROJECT: Consentino Middle School
Haverhill, Massachusetts

SUBJECT: PCO #048: PR-36 RFI 132 Radiant Panel Piping

Please be advised as follows:

We have reviewed the Brait Builders Corp. portion of Proposed Change Order No. 048 in the amount of \$4,036.40 for costs associated with PR 35 and RFI 132, Radiant Panel Piping. We find the amount to be fair and reasonable and recommend your approval.

If you have any questions regarding this information, please contact our office at your earliest convenience.

MM:kc

Enc.

Cc. Tara King, Dore + Whittier

GENERAL MECHANICAL CONTRACTORS, INC.

Consentino Middle School - PR-36

12-11-2024

Reason For Change: Attached are the additional HVAC costs associated with PR-36. Please see the following breakdown. Pricing is valid for 30 days. All work to be completed on normal working hours.

MATERIAL COSTS

Additional Materials	Cost per Unit	Total
Lot of added piping materials per sketch		\$ 539.00
Total Additional Material Costs		\$ 539.00

LABOR COSTS

Additional Man Hours	Wage	Total
24 added piping hours to install per sketch	\$ 118.46	\$ 2,843.04
		\$ -
Total Additional Labor Costs		\$ 2,843.04

SUB-TRADE CONTRACTOR COSTS

Sub-Trade Contractor	Cost
Insulation	\$ 637.00
Total Sub-Trade Contractor Costs	\$ 637.00

Trade Contractor Overhead and Profit

Total Trade Contractor Costs w/ OH & P =	\$	4,019.04	\$	4,019.04
Bond Cost (.432%)	\$	17.36		
Total Cost	\$	4,036.40		

Trimble Navigation Limited

Recap with Total Cost

Project Name: Haverhill Consentino Middle Schoo

Bid ID: HaverConsen

Report Time: 11/22/2024 12:13 PM

Profile Name: Standard

Labor Book: General Mechanical X

Scoped By: Base Bid; Drawing: PR 36 RFI 132 11.22.24;

Trimble Navigation Limited

Recap with Total Cost

There were 14 calculation messages.

Project Name: Haverhill Consentino Middle Schoo

Page: 1 of 4

Bid ID: HaverConsen

Report Time: 11/22/24 12:13 PM

Data Calculated: 11/22/2024 12:08:30 PM

Base Bid; Drawing: PR 36 RFI 132 11.22.24;

Pipe

Carbon Steel - Threaded Black Sch 40 - Thread

Material Multiplier: P1000 - TRD - Steel Threaded Black Pipe - 0.26

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
A53 CW								
3/4		56	9.04	133.34	0.06	3	246	379
Carbon Steel - Threaded Black Sch 40 - Thread Totals:								
		<u>56</u>		<u>133</u>		<u>3</u>	<u>246</u>	<u>379</u>
Pipe Totals:		<u>56</u>		<u>133</u>		<u>3</u>	<u>246</u>	<u>379</u>

Fittings

Malleable Iron - Threaded, Black Class 150 - Thread

Material Multiplier: F1400 - Malleable Iron Fittings - WAR - 0.23

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
90 Deg Elbow								
3/4		4	11.69	10.75	0.58	2	175	186
Coupling								
3/4		2	15.68	7.21	0.58	1	87	95
Union								
3/4		2	52.04	23.94	0.64	1	96	120
Malleable Iron - Threaded, Black Class 150 - Thread Totals:								
		<u>8</u>		<u>42</u>		<u>5</u>	<u>358</u>	<u>400</u>
Fittings Totals:		<u>8</u>		<u>42</u>		<u>5</u>	<u>358</u>	<u>400</u>

Valves

Bronze - Threaded Ball WOG - Thread

Material Multiplier: V0RA0 - MIL - Bronze Ball Valves - MIL - 0.50

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
600# Mil BA100								
3/4		3	99.21	148.82	0.55	2	125	273
Bronze - Threaded Ball WOG - Thread Totals:								
		<u>3</u>		<u>149</u>		<u>2</u>	<u>125</u>	<u>273</u>

Bronze - Threaded Circuit Setter - Thread

Material Multiplier: V0NK0 - Brass Gate, Globe, Check Valves - 0.42

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
175# Milw BB2FP								
3/4		1	114.31	48.01	0.55	1	42	90

Trimble Navigation Limited

Recap with Total Cost

There were 14 calculation messages.

Project Name: Haverhill Consentino Middle Schoo

Page: 2 of 4

Bid ID: HaverConsen

Report Time: 11/22/24 12:13 PM

Data Calculated: 11/22/2024 12:08:30 PM

Base Bid; Drawing: PR 36 RFI 132 11.22.24;

Valves

Bronze - Threaded Circuit Setter - Thread

Bronze - Threaded Circuit Setter - Thread Totals:

<u>1</u>	<u>48</u>	<u>1</u>	<u>42</u>	<u>90</u>
----------	-----------	----------	-----------	-----------

Cast Iron - Threaded Y-Strainer - Thread

Material Multiplier: V0SB0 - MUL - Cast Iron Strainers - MUL - 0.32

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
250# Muel 11M								
3/4		1	71.25	22.80	0.85	1	64	87

Cast Iron - Threaded Y-Strainer - Thread Totals:

<u>1</u>	<u>23</u>	<u>1</u>	<u>64</u>	<u>87</u>
----------	-----------	----------	-----------	-----------

<u>Valves Totals:</u>	<u>5</u>	<u>220</u>	<u>3</u>	<u>230</u>	<u>450</u>
-----------------------	----------	------------	----------	------------	------------

Hanger Components

- C Clamps -

Material Multiplier: H0002a - Carpenter Paterson - 0.12

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Fig 192 C-Clamp								
3/8		10	13.00	15.60	0.00	0	0	16

- C Clamps - Totals:

<u>10</u>	<u>16</u>	<u>0</u>	<u>0</u>	<u>16</u>
-----------	-----------	----------	----------	-----------

- Rods -

Material Multiplier: H0003 - Hanger Materials - C&P - 0.06

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Allthread - Galv								
3/8		24	10.15	14.62	0.00	0	0	15

- Rods - Totals:

<u>24</u>	<u>15</u>	<u>0</u>	<u>0</u>	<u>15</u>
-----------	-----------	----------	----------	-----------

- Saddles & Shields -

Material Multiplier: H0002a - Carpenter Paterson - 0.12

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Fig 265P Insl Shield								
4		10	55.80	66.96	0.00	0	0	67

- Saddles & Shields - Totals:

<u>10</u>	<u>67</u>	<u>0</u>	<u>0</u>	<u>67</u>
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Recap with Total Cost

There were 14 calculation messages.

Project Name: Haverhill Consentino Middle Schoo

Page: 3 of 4

Bid ID: HaverConsen

Report Time: 11/22/24 12:13 PM

Data Calculated: 11/22/2024 12:08:30 PM

Base Bid; Drawing: PR 36 RFI 132 11.22.24;

Hanger Components

Galvanized - Clevis -

Material Multiplier: H0002a - Carpenter Paterson - 0.12

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Fig 100 Clevis								
4		10	37.31	44.77	0.50	5	378	422

Galvanized - Clevis - Totals:

		<u>10</u>		<u>45</u>		<u>5</u>	<u>378</u>	<u>422</u>
<u>Hanger Components Totals:</u>		<u>54</u>		<u>142</u>		<u>5</u>	<u>378</u>	<u>520</u>

Labor

Hangers

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Clevis Hanger(HgrItem IBm&Tr HgWBAtt)								
4		10	0.00	0.00	0.50	5	378	378

Hangers Totals:

		<u>10</u>		<u>0</u>		<u>5</u>	<u>378</u>	<u>378</u>
<u>Labor Totals:</u>		<u>10</u>		<u>0</u>		<u>5</u>	<u>378</u>	<u>378</u>

HVAC Equipment

- Radiation -

Material Multiplier: XNET - Net Material Price - 1.00

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Radiant Panel*								
Radiant Panel, 1		9	0.00	0.00	0.40	3	257	257

- Radiation - Totals:

		<u>9</u>		<u>0</u>		<u>3</u>	<u>257</u>	<u>257</u>
<u>HVAC Equipment Totals:</u>		<u>9</u>		<u>0</u>		<u>3</u>	<u>257</u>	<u>257</u>

Misc. Consumables

- CS Joints CS Threaded Joint -

Material Multiplier: XNET - Net Material Price - 1.00

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
CS Threaded Joint								
Cutting Oil		0	0.00	0.00	0.00	0	0	0
Joint Compound		0	0.00	0.00	0.00	0	0	0

Trimble Navigation Limited

Recap with Total Cost

There were 14 calculation messages.

Project Name: Haverhill Consentino Middle Schoo

Page: 4 of 4

Bid ID: HaverConsen

Report Time: 11/22/24 12:13 PM

Data Calculated: 11/22/2024 12:08:30 PM

Base Bid; Drawing: PR 36 RFI 132 11.22.24;

Misc. Consumables

- CS Joints CS Threaded Joint -

- CS Joints CS Threaded Joint - Totals:

	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Misc. Consumables Totals:	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Misc. Steel Items

- Bolts,Nuts&Washers -

Material Multiplier: H0003 - Hanger Materials - C&P - 0.06

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Washers - Black CS	3/8	30	1.16	2.09	0.00	0	0	2

Material Multiplier: XNET - Net Material Price - 1.00

<u>Item</u>	<u>Size</u>	<u>Quantity</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Hex Nuts-Heavy	3/8	30	0.00	0.00	0.00	0	0	0

- Bolts,Nuts&Washers - Totals:

	<u>60</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
Misc. Steel Items Totals:	<u>60</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>

Material Cost

Total Hrs

Labor Cost

Total Cost

Grand Totals

\$539

24

\$1,847

\$2,386

* Items flagged with an asterisk may have their price and labor overwritten in Excel's Rapid Reports

Owens Insulation, Inc.

157 Winona St., Peabody, Ma. 01960
978-777-8882 / fax 978-777-9056

December 9, 2024

Page 1 of 1

General Mechanical Contractors Co, Inc.
29A Sword St.
Auburn, MA. 01501

Attn. Michael Tomasino

Re. Dr Consentino MS / PR-36
Haverhill, MA.

We are pleased to submit the following pricing to furnish and install HVAC system insulation, associated with pipe route changes in accordance with plans, specifications and as noted below:

Material	\$ 298.00
Labor	<u>369.00</u>
Total Add	\$ 637.00

Drawings: JD-70 dated 10/22/24.

Specification: Per Original Contract.

No shields, No fire Stopping, No system I.D.

Payment is due thirty (30) days after progress invoice date, less contract retainage.

We look forward to being of further service to you.

Respectfully Submitted

Robert G. Owens, Sales Engineer

Accepted _____
Title _____ Date _____
P O # _____

PROPOSAL REQUEST

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Owner | <input type="checkbox"/> Civil | <input type="checkbox"/> FF&E |
| <input checked="" type="checkbox"/> Architect | <input type="checkbox"/> Landscape | <input type="checkbox"/> Sustainability |
| <input checked="" type="checkbox"/> Contractor | <input type="checkbox"/> Geotech | <input type="checkbox"/> Acoustics |
| <input checked="" type="checkbox"/> O.P.M | <input type="checkbox"/> Structural | <input type="checkbox"/> Other |
| <input type="checkbox"/> CX Agent | <input checked="" type="checkbox"/> MEP-FP | <input type="checkbox"/> Other |



Project Name:	Haverhill Consentino Middle School	PR No.	36
Architect's Project No.	21-0818		
Owner:	City of Haverhill 4 Summer Street Haverhill, MA 01830	Architect:	DORE + WHITTIER 260 Merrimac St, Bldg 7, Newburyport, MA 01950
To:	Brait Builders Corporation 57 Rockwood Road Marshfield, MA 02050	Contract Date	4/1/2024
		Issue Date:	10/22/2024
Attention:	TJ Dahill	Subject:	RFI 132 Radiant Panel Piping

Please submit an itemized quotation for changes in the Contract Sum and/ or Time incidental to proposed modifications to the Contract documents described herein.

THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN.

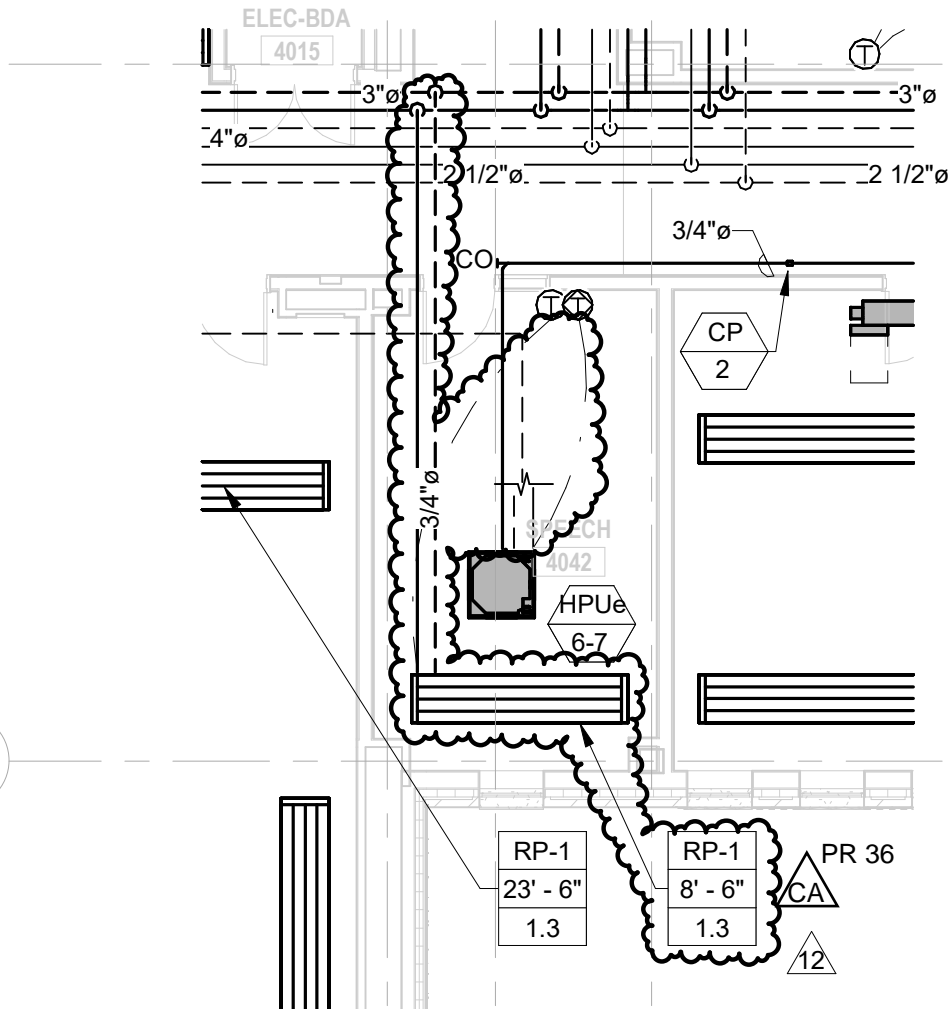
In response to RFI 132, at Sheet M2.41, revise RP-1 at room 4042 as shown on attached sketch **JD-70**.

JD-70

Issued by

DORE + WHITTIER
Tara King

Copy: File, GGD



GGDCONSULTING ENGINEERS, INC.
 375 Faunce Corner Road, Suite D, Dartmouth, MA02747-1258
 p: 508-998-5700 • f: 508-998-0883 • E-MAIL: info@g-g-d.com

REF M2.41

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**CONSENTINO MIDDLE SCHOOL
 685 WASHINGTON STREET
 HAVERHILL, MA**

Project No.
 21-0818



Burlington, VT 05401
 (802) 863-1428
 Newburyport MA 01950
 (978) 499-2999
 doreandwhittier.com

Date
 10.22.24
 Scale
 1/8" = 1'-0"

Sheet Title

**RFI-132 FOURTH FLOOR HVAC
 AREA B - PIPING**

JD70