State Project No. 052-0076N Farmington High School Recommendation for Change Order



Date: April 10, 2023

Change Order Number: 007

Change Order Name: CE-051 – Ferguson Plumbing Hangers

Change Order Deduct Cost: -(\$18,972.00)

Description of Change Order: This Proposal is for a lump sum material and labor credit to allow the use of power-actuated fasteners in lieu of specified wedge anchors.

Reaso	n for Change Order:		
	Owner requested		
	Design team requested		
	Construction manager requested		
	Omission or error in drawings/specifications		
✓	Other: Value Engineering		
Cost S	ource:		
	Construction Contingency		
✓	Owner Contingency - Credit back to Owner Contingency		
Revie	ved with Construction Manager:	<u>Yes</u>	No
Revie	ved by Architect/Design Team:	<u>Yes</u>	No
FHS D	ecision Making Group:	<u>Yes</u>	No
Recon	nmended to the Owner by Owner's Representative:	Yes	No

Notes: This item was a suggested VE item presented by Ferguson Mechanical as requested by the professional team during scope reviews. This item was presented to the FHS Working Group prior to the December Referendum and later reviewed with members of the Decision Making Group. This item was noted as having no relative design impact to the project with a positive impact to the budget.



Proposed Change Order

Project: Farmington High School and

Central Office Renovation

Change No.: PCO 007

Change Name: CE-051 - Ferguson Plumb. Hangers

To: Town of Farmington

Change Event No.: CE-051 Contract No.: 2013902

Change Date: 3/30/23

Change Amount: (\$18,972.00)

Schedule Impact: 0 Days

Description:

CE-51; Eligible for OSCG&R. REF: Ferguson Mechanical Cost Reduction Letter dated; 01/23/2023 Partial Specification (230529 - Hangers And Supports For HVAC Piping And Equipment). This change proposal is for material and labor credit lump sum value listed under line #2 Hanger; allow us of power-actuated fasteners over wedge anchors per Spec. Sec. (230529 3.1.G.1)

Proposed Change Items

Pay Item No	Pay Item Name	Amount
230050-6080	Plumbing Trade Contractor	-\$18,697.00
010815-6050	Liability Insurance	-\$159.00
010805-6050	P&P Bonds	-\$116.00
	230050-6080 010815-6050	230050-6080 Plumbing Trade Contractor 010815-6050 Liability Insurance

-\$18,972.00

O&G Industries, Inc.	Town of Farmington
By: Nelson Reis - PM	By:
Date: 4/6/2023	Date:
Architect:	Owner's Representative:
By: Middle OFA	Owner's Representative: By:



Total Cost of Change For All Trades Affected	<\$18,697.00>
Insurance - GL/PL @ 0.85%	<\$158.92>
Subtotal w/ GL/PL	<\$18,855.92>
Performance & Payment Bonds @ 0.617%	<\$116.34>
Subtotal w/ Bonds	<\$18,972.27>
CM Fee @ 1.25%	\$237.15>
Total for Change	<\$19,209.42>

CM Fees dose not apply to aggregated changes less then \$1M



Sent Via Email: nelsonreis@ogind.com

112 Northwest Drive • P.O. Box 430 • Plainville, CT 06062 Voice (860) 747-4566

Fax (860) 793-5050

January 23, 2023

O&G Industries, Inc. 112 Wall Street Torrington, CT 06790 Attention Nelson Reis

RE: Farmington High School

Cost Savings Options

Dear Nelson,

Please see below some cost savings options for your consideration:

PLUMBING OPTIONS:

 Underground Storm and Sanitary (excludes Grease Waste) CAST IRON TO PVC: Material: \$46,841 Labor: \$6,692 (\$53,533)

2. Hanger: allow use of powder-actuated fasteners over wedge anchors (230529 3.1.G.1)

Material: \$1,870 Labor: \$16,827 (\$18,697)

3. Sammy Express hangers at Roof Deck: Pipe 3/8" hardware and down (copper & vent pipe)

Material: \$3,453 Labor: \$31,074 (\$34,527)

HVAC OPTIONS:

2. Sammy Express hangers at Roof Deck: Pipe 3/8" hardware and down (copper pipe & strap hung duct)

Material: \$3,386 Labor: \$30,478

(\$33.864)

Should you have any questions or concerns, please contact me.

Sincerely,

FERGUSON MECHANICAL COMPANY, INC.

Ryan Smith Project Manager

RS/lgp

cc: Ryan L. Ferguson

File: MOG221-002

- C. Grout: ASTM C 1107, factory-mixed and -packaged, dry, hydraulic-cement, nonshrink and nonmetallic grout; suitable for interior and exterior applications.
 - 1. Properties: Nonstaining, noncorrosive, and nongaseous.
 - 2. Design Mix: 5000-psi, 28-day compressive strength.

PART 3 - EXECUTION

3.1 HANGER AND SUPPORT INSTALLATION

- A. Metal Pipe-Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Install hangers, supports, clamps, and attachments as required to properly support piping from the building structure.
- B. Metal Trapeze Pipe-Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Arrange for grouping of parallel runs of horizontal piping, and support together on field-fabricated trapeze pipe hangers.
 - 1. Pipes of Various Sizes: Support together and space trapezes for smallest pipe size or install intermediate supports for smaller diameter pipes as specified for individual pipe hangers.
 - 2. Field fabricate from ASTM A 36/A 36M, carbon-steel shapes selected for loads being supported. Weld steel according to AWS D1.1/D1.1M.
- C. Metal Framing System Installation: Arrange for grouping of parallel runs of piping, and support together on field-assembled metal framing systems.
- D. All hanger rod and channel ends; exposed and less than or equal to 12ft above finished floor; shall be provided with plastic caps and plastic channel safety end caps. Color shall be same throughout the project.
- E. Thermal-Hanger Shield Installation: Install in all pipe hangers and shields for insulated piping.
- F. Fastener System Installation:
 - 1. Powder-actuated fasteners are not acceptable.
 - 2. When possible, install concrete inserts before placing concrete.
 - 3. Install mechanical-wedge type anchors in concrete after concrete is placed and completely cured. Install fasteners according to manufacturer's written instructions.
 - 4. Pin/nail anchors, spikes, expansion shields, expansion anchors, dropin anchors, wedge bolts, self tapping screw anchors, and friction clamps are not acceptable.

G. Pipe Stand Installation:

- Pipe Stand Types except Curb-Mounted Type: Assemble components and mount on smooth roof surface. Do not penetrate roof membrane.
- 2. Curb-Mounted-Type Pipe Stands: Assemble components or fabricate pipe stand and mount on permanent, stationary roof curb. See Section 077200 "Roof Accessories" for curbs.

State Project No. 052-0076N Farmington High School Recommendation for Change Order



Date: April 10, 2023

Change Order Number: 008

Change Order Name: CE-052 – Ferguson HVAC Hangers

Change Order Deduct Cost: -(\$31,454.00)

Description of Change Order: This proposal is for a lump sum material and labor credit to allow the use of power-actuated fasteners in lieu of specified wedge anchors.

Reaso	n for Change Order:		
	Owner requested		
	Design team requested		
	Construction manager requested		
	Omission or error in drawings/specifications		
✓	Other: Value Engineering		
Cost S	iource:		
	Construction Contingency		
✓	Owner Contingency - Credit back to Owner Contingency		
Revie	wed with Construction Manager:	<u>Yes</u>	No
Revie	wed by Architect/Design Team:	<u>Yes</u>	No
FHS D	ecision Making Group:	<u>Yes</u>	No
Recon	nmended to the Owner by Owner's Representative:	Yes	No

Notes: This item was a suggested VE item presented by Ferguson Mechanical as requested by the professional team during the scope reviews. This item was presented to the FHS Working Group prior to the December Referendum and later reviewed with members of the Decision Making Group. This item was noted as having no relative design impact to the project with a positive impact to the budget.



Proposed Change Order

Project: Farmington High School and

Central Office Renovation

Change No.: PCO 008

Central Office Fleriovation

Change Name: CE-052 - Ferguson HVAC Hangers

To: Town of Farmington

Change Event No.: CE-052

Contract No.: 2013902 Change Date: 3/30/23

Change Amount: (\$31,454.00)

Schedule Impact: 0 Days

Description:

CE-52; Eligible for OSCG&R. REF: Ferguson Mechanical Cost Reduction Letter dated; 01/23/2023 Partial Specification (230529 - Hangers And Supports For HVAC Piping And Equipment). This change proposal is for material and labor credit lump sum value listed under HVAC Option line #1 Hanger; allow us of power-actuated fasteners over wedge anchors per Spec. Section (230529 3.1.F.1)

Proposed Change Items

Item No	Pay Item No	Pay Item Name	Amount
0001	230050-6080	Plumbing Trade Contractor	-\$30,998.00
0002	010815-6050	Liability Insurance	-\$263.00
0003	010805-6050	P&P Bonds	-\$193.00

-\$31,454.00

O&G Industries, Inc.	Town of Farmington
By: Nelson Reis - PM	By:
Date: 4/6/2023	Date:
Architect:	Owner's Representative:
By: Midle COM	By:
Date: 11 APR 2023	Date:



Total Cost of Change For All Trades Affected	<\$30,998.00>
Insurance - GL/PL @ 0.85%	<\$263.48>
Subtotal w/ GL/PL	<\$31,261.48>
Performance & Payment Bonds @ 0.617%	<\$192.88>
Subtotal w/ Bonds	<\$31,454.37>
CM Fee @ 1.25% Total for Change	<\$393.18> <\$31,847.55>
Total for Change	~\$31,847.33/

CM Fees dose not apply to aggregated changes less then \$1M



Sent Via Email: nelsonreis@ogind.com

112 Northwest Drive • P.O. Box 430 • Plainville, CT 06062 Voice (860) 747-4566

Fax (860) 793-5050

January 23, 2023

O&G Industries, Inc. 112 Wall Street Torrington, CT 06790 Attention Nelson Reis

RE: Farmington High School

Cost Savings Options

Dear Nelson,

Please see below some cost savings options for your consideration:

PLUMBING OPTIONS:

 Underground Storm and Sanitary (excludes Grease Waste) CAST IRON TO PVC: Material: \$46,841 Labor: \$6,692 (\$53,533)

2. Hanger: allow use of powder-actuated fasteners over wedge anchors (230529 3.1.G.1)

Material: \$1,870 Labor: \$16,827 (\$18,697)

3. Sammy Express hangers at Roof Deck: Pipe 3/8" hardware and down (copper & vent pipe)

Material: \$3,453 Labor: \$31,074 (\$34,527)

HVAC OPTIONS:

2. Sammy Express hangers at Roof Deck: Pipe 3/8" hardware and down (copper pipe & strap hung duct)

Material: \$3,386 Labor: \$30,478

(\$33.864)

Should you have any questions or concerns, please contact me.

Sincerely,

FERGUSON MECHANICAL COMPANY, INC.

Ryan Smith Project Manager

RS/lgp

cc: Ryan L. Ferguson

File: MOG221-002

- C. Grout: ASTM C 1107, factory-mixed and -packaged, dry, hydraulic-cement, nonshrink and nonmetallic grout; suitable for interior and exterior applications.
 - 1. Properties: Nonstaining, noncorrosive, and nongaseous.
 - 2. Design Mix: 5000-psi, 28-day compressive strength.

PART 3 - EXECUTION

3.1 HANGER AND SUPPORT INSTALLATION

- A. Metal Pipe-Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Install hangers, supports, clamps, and attachments as required to properly support piping from the building structure.
- B. Metal Trapeze Pipe-Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Arrange for grouping of parallel runs of horizontal piping, and support together on field-fabricated trapeze pipe hangers.
 - 1. Pipes of Various Sizes: Support together and space trapezes for smallest pipe size or install intermediate supports for smaller diameter pipes as specified for individual pipe hangers.
 - 2. Field fabricate from ASTM A 36/A 36M, carbon-steel shapes selected for loads being supported. Weld steel according to AWS D1.1/D1.1M.
- C. Metal Framing System Installation: Arrange for grouping of parallel runs of piping, and support together on field-assembled metal framing systems.
- D. All hanger rod and channel ends; exposed and less than or equal to 12ft above finished floor; shall be provided with plastic caps and plastic channel safety end caps. Color shall be same throughout the project.
- E. Thermal-Hanger Shield Installation: Install in all pipe hangers and shields for insulated piping.

F. Fastener System Installation:

- 1. Powder-actuated fasteners are not acceptable.
- 2. When possible, install concrete inserts before placing concrete.
- 3. Install mechanical-wedge type anchors in concrete after concrete is placed and completely cured. Install fasteners according to manufacturer's written instructions.
- 4. Pin/nail anchors, spikes, expansion shields, expansion anchors, dropin anchors, wedge bolts, self tapping screw anchors, and friction clamps are not acceptable.

G. Pipe Stand Installation:

- 1. Pipe Stand Types except Curb-Mounted Type: Assemble components and mount on smooth roof surface. Do not penetrate roof membrane.
- 2. Curb-Mounted-Type Pipe Stands: Assemble components or fabricate pipe stand and mount on permanent, stationary roof curb. See Section 077200 "Roof Accessories" for curbs.

State Project No. 052-0076N Farmington High School Recommendation for Change Order



Date: April 10, 2023

Change Order Number: 009

Change Order Name: PR #9 – Eversource Revisions to Electrical Primary

Recommended to the Owner by Owner's Representative:

Change Order Cost: \$242,506.00

Description of Change Order: This proposal includes all labor, material, and equipment to add primary electrical feeds as required by Eversource. Additionally, this proposal includes added fiber as requested by the school district.

This change order is required to provide a permanent location for the above-mentioned primary electrical and fiber optic routes as the scope of work was not included in the final bid set.

Reason for Change Order: ☐ Owner requested Design team requested Construction manager requested ✓ Omission or error in drawings/specifications – Eversource notified the Project Team of these new requirements for the primary electrical feeds after documents had been completed and the Design Team and Construction manager were working on MEP Coordination. □ Other **Cost Source:** ☐ Construction Contingency ✓ Owner Contingency **Reviewed with Construction Manager:** Yes No **Reviewed by Architect/Design Team:** No Yes **FHS Decision Making Group:** No Yes

Notes: These items were reviewed in multiple meetings with the Design Team, Construction Manager, Owner and Eversource prior to finalized scope and pricing.

Yes

No



Proposed Change Order

Project: Farmington High School and

To: Town of Farmington

Central Office Renovation

Change No.: PCO 009

Change Name: PR #9 - Eversource Revisions to Electrical Primary

Change Event No.: CE-049

Contract No.: 2013902

Change Date: 4/4/23

Change Amount: \$242,506.00

Schedule Impact: 3 Days

Description:

CE-49; Eligible for OSCG&R. REF: J.Iapaluccio Change Proposal Letter 202214-007r5, Ferguson Electrical Change Proposal #606B,TSKP PR#9R Eversource Revisions to Electrical Primary Routing dated 3/29/2023; This change proposal is to provide all labor, equipment and materials to add primary electrical feeds per Design Team directives as required by Eversource. All work to be done in accordance with Proposal Request #9R Issued by Design Team and as modified under review process. Also included in this change proposal is added fiber as requested by school district. O&G reserves rights for time extension of three (3) days requested by Electrical Contractor. Note: This Proposal includes (2) polymer concrete boxes as required by Eversource. Breakout pricing for fiber conduits from both trade contractors is in the amount of \$15,392.00.

Proposed Change Items

Item No	Pay Item No	Pay Item Name	Amount
0001	312316-6080	Site Trade Contractor	\$172,179.00
0002	260050-6080	Electrical Trade Contractor	\$66,809.00
0003	010815-6050	Liability Insurance	\$2,031.00
0004	010805-6050	P&P Bonds	\$1,487.00

\$242,506.00

O&G Industries, Inc.	Town of Farmington
By: Nelson Reis - PM	By:
Date: 4/6/2023	Date:
Architect:	Owner's Representative:
Architect: By: Middle SH	Owner's Representative: By:



PCO Review

DATE: 11 April 2023

TO: Nelson Reis, O&G Industries

PROJECT: Farmington High School (052-0076N/052-0077BE)

FROM: Michael Scott

RE: PCO – 009 Eversource Revisions

PAGE 1 OF: 1

TSKP Studios has reviewed the back-up provided by O&G and the subcontractors for the above reference item and offers the following summary:

- The change in scope is a result of new direction requested from the utility company (Eversource) to provide additional infrastructure to the electrical primary on campus.
- The cost listed in commensurate with the extent of this scope change
- There is no time impact associated with this item.

TSKP recommends approval of this PCO for the aggregate value of \$242,506.00.

cc: Ryszard Szczypek, TSKP Studio



Total Cost of Change For All Trades Affected	\$238,988.00
Insurance - GL/PL @ 0.85%	\$2,031.40
Subtotal w/ GL/PL	\$241,019.40
Performance & Payment Bonds @ 0.617%	\$1,487.09
Subtotal w/ Bonds	\$ 242,506.49
CM Fee @ 1.25%	\$ 3,031.33
Total for Change	\$ 245,537.82

CM Fees dose not apply to aggregated changes less then \$1M



Phone: 203-775-1437 Fax: 203-775-1485 425 Federal Road Brookfield, CT 06804

Letter: 202214-007r5

March 29, 2023

O&G Industries, Inc.

Site Address: 10 Monteith Drive

Farmington, CT

Attention: Nelson Reis

Reference: Change Proposal – PR#9 New Primary

Farmington High School – BP# 2.31 Sitework

We are in receipt of PR#9, dated February 27, 2023. The revised electric site drawings were included with the new primary routing as required by Eversource for the new high school building. The new primary feed requires approximately 1650 LF of trench to be excavated, concrete-encased, backfilled and restored accordingly. The following is a breakdown of work included: **Revision includes sand bedding only and excludes any/all concrete encasement noted in PR documents.

- Sawcut trench in areas of existing bituminous pavements;
- Trench approximately 1,650 LF of primary trench;
- Sand bedding and cover trench with 12" cover of sand per O&G direction;
- Backfill with fill, topsoil and seed in areas of existing grass;
- Backfill with processed aggregate base and 3" of temporary bituminous pavements in areas of existing drive or parking lot;
- Receive and set (2) 3x6' handholes, provided by others;
- Licensed surveyor to as-built new primary;
- Includes survey and layout for our work. Final locations of hand-holes to be reviewed and approved with owner, O&G, electrician, and Eversource;
- All work assumed during normal business hours. No OT premium in included in this proposal;
- Reference attached for proposed routing modifications at Monteith to define areas of earth vs. existing bituminous restoration. Routing is in accordance with on-going Town-coordination meetings;
- Trenching and backfilling to/from existing transformer no change from contract documents.

PR#9 – Revised Electrical Primary	ADD	<u>\$ 150,025.00</u>
ADD Alternate – Include (2) Polymer Conc Boxes	ADD	\$ 22,154.00

We request a lump sum change order in the amount of \$150,025.00 be added to our current contract value. If you have any questions, please contact me at 203-482-7175.

J. Iapaluccio, Inc.

Cc: 2022-14 PR# 9 03/22/2023

14:49

2251-4

FHS - Changes

*** Kris Nigro

BID TOTALS

Biditem	Description	Quantity	<u>Units</u>	Unit Price	Bid Total
10	PR#9 - New Primary Routing	0.000			
20	Adjustment for Bond	1.000	LS	1,480.00	1,480.00
50	Project Supervision	1.000	MO	2,040.00	2,040.00
80	Staking/Model Update	1.000	LS	4,950.00	4,950.00
100	Sawcut for Trench	1.000	DAY	1,680.00	1,680.00
110	Excavate for Primary	1,650.000	LF	33.00	54,450.00
120	Bedding Backfill (all)	1,650.000	LF	18.00	29,700.00
130	Backfill Primary (Earth)	1,225.000	LF	12.00	14,700.00
140	Backfill Primary (Ex Pvmt)	425.000	LF	85.00	36,125.00
150	Set Handholes (Polymer Conc)	2.000	EA	550.00	1,100.00
160	Flagger/ MPT	5.000	DAY	760.00	3,800.00
		Bid Total ====	====>		\$150,025.00

**Notes:

Items in italics are Non-Additive.



112 Northwest Drive ● P.O. Box 430 ● Plainville, CT 06062 Voice (860) 747-4566 Fax (860) 793-5050

March 27, 2023

Mr. Nelson Reis O&G Industries, Inc. 112 Wall Street - P.O. Box 907 Torrington, CT 06790

Re: Farmington High School

Dear Nelson:

Enclosed is proposal number <u>606B</u> in the amount of <u>\$66,809.00</u>. This sum is for the direct cost of doing the work provided for the enclosed proposal. Ferguson Electric hereby reserves its right to claim an extension of the contract time and any indirect costs attributable to such time extension. As soon as Ferguson Electric is able to quantify the delays and related indirect impact costs caused by the work covered in the enclosed proposals, we will forward these to you for your review.

Please note that this change proposal is based on straight time only, if the work has to be done on an overtime basis, the cost will be adjusted accordingly.

This quote is valid for seven (7) days and is subject to change if not approved in that time frame.

FE-FORM-3

MA # 490MR



BILL

TO:

O&G INDUSTRIES, INC.

112 WALL STREET

TORRINGTON CT 06790

WORK

FARMINGTON HIGH SCHOOL

DONE AT: 10 MONTEITH DRIVE

FARMINGTON, CT 06032

PHONE 860 489 9261 CUST# 69300

 JOB NO.
 CUST ORDER#
 TERMS
 REQUEST NUMBER
 DATE

 EOG222-606
 052-0076N&77BE
 Net 30
 606分
 3/27/23

QUANTITY

DESCRIPTION

UNIT PRICE

AMOUNT

Labor, material and equipment to add conduits required by Eversource outlined in PR-09.

We are also providing 1x 2" conduit from the utility pole to each building as directed by O&G.

(breakdown attached)

\$66,809.00

This proposal is valid for seven (7) days and is subject to change if not approved within this time frame.

Upon receipt of your change order or notice to proceed we will commence this work. If a notice to proceed is issued it must guarantee our ability to list the agreed upon amount on our requisition for monthly progress billing. Please acknowledge receipt of FE-FORM-3 on your change order when accepted.

COP 606A supersedes 606 by reducing the amount of 2" conduit required on site as directed by 0&G. COP 606B supersedes 606A by reducing the PVC from schedule 80 to schedule 40 as directed by 0&G

C/O REQUEST TOTAL

66,809.00 \$66,809.00

CHANGE ORDER PROPOSAL

Ferguson Electric Co., Inc.

112 Northwest Drive P.O. Box 430 Plainville, CT 06062 Client Address:

O&G Industries

Contact: Nelson Reis 10 Monteith Dr Farmington, CT 06032 Ferguson COP#: 606B
Date: 3/27/2023
Project Name: Farmington High
Project Number: EOG222
Project Change Request Number: PR-09
Page Number: 1

Work Description

Labor, material and equipment to add conduits required by Eversource outlined in PR-09.

We are also providing 2x2" conduit from the utility pole to the existing handhole at the top of the driveway as directed by O&G.

COP 606A supersedes 606 by reducing the amount of 2" conduit required on site as directed by O&G.

COP 606B supersedes 606A by reducing the PVC from schedule 80 to schedule 40 as directed by O&G

Comments

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.

Cutting, patching and painting will be performed by others at no cost to Ferguson.

Labor is based on normal working hours, non premium time, unless stated otherwise in the above Scope.

This price is good for acceptance within 10 days from the date of receipt.

We request a time extension of 3 days.

Itemized Breakdown

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
2" GRC 90 DEG ELBOW	2	0.00 C	0.00	100.00 C	2.00
4" GRC 90 DEG ELBOW	4	0.00 C	0.00	300.00 C	12.00
2" PVC	1,060	0.00 C	0.00	4.50 C	47.70
4" PVC	3,040	0.00 C	0.00	5.50 C	167.20
2" PVC FEM ADAPTER	4	0.00 C	0.00	30.00 C	1.20
4" PVC FEM ADAPTER	8	0.00 C	0.00	80.00 C	6.40
2" PVC END BELL	2	0.00 C	0.00	23.00 C	0.46
4" PVC END BELL	8	0.00 C	0.00	40.00 C	3.20
#4 BARE COPPER	45	0.00 M	0.00	21.00 M	0.94
POLY PULL STRING	4,170	0.00 C	0.00	2.00 C	83.40
5/8"x10' CU CLAD GRD ROD	6	0.00 E	0.00	2.00 E	12.00

ORIGINAL

CHANGE ORDER PROPOSAL

Ferguson Electric Co., Inc. 112 Northwest Drive P.O. Box 430 Plainville, CT 06062		Date: Proje Proje Proje	uson COP#: : ect Name: ect Number: ect Change Requ e Number:	est Number:	606B 3/27/2023 Farmington High EOG222 PR-09 2
Description 5/8" GRD ROD CLAMP 4" GRD CLAMP FOR BARE WIRE Totals	Qty 6 2 8,357	Net Price U 0.00 E 0.00 E	Total Mat. 0.00 0.00 0.00	Labor U 0.75 E 0.85 E	Total Hrs. 4.50 1.70 342.70
Summary					
MATERIALS					34,064.40
Total Material					34,064.40
JOURNEYMAN FOREMAN NECA ADJUSTMENT .25	(342.71 Hrs @ \$88.85) (34.27 Hrs @ \$111.88) (-85.68 Hrs @ \$88.85)				30,449.78 3,834.13 -7,612.67
Total Labor					26,671.24
Markup	(@ 10.000 %)				6,073.56
Total Markups					6,073.56
Subtotal					66,809.20
Final Amount					\$66,809.20
CLIENT ACCEPTANCE					
Ferguson COP#: 606B Final Amount: \$66,809.20					
Name:					
Date:					
Signature:					
Change Order #:	ation and authorize the contractor to comple	ete the above described wo	ork.		

QUOTATION

Beacon Light & Supply Co. 422 N Main St Manchester, CT 06042 860-527-8236

Order Number				
1441535				
Order Date	Page			
2/28/2023 15:56:55	1 of 2			

Bill To:

FERGUSON ELECTRIC CO INC 112 NORTHWEST DR P O BOX 430 PLAINVILLE, CT 06062 USA 860-747-4566

Ship To:

FERGUSON ELECTRIC CO INC 112 NORTHWEST DR P O BOX 430 PLAINVILLE, CT 06062 USA

Customer ID: 100390

	1	PO Number			Ship Rov	ıte			Tak	ter	
F	ARMINGT	ON HIGH SCHO	OOL-1]	LTHON	ASON	
Ordered	Quant Allocated	ities Remaining UOM Unit S	S Ite	tem ID tem Descripti	on			Pricin UOM Uni	g t Size	Unit Price	Extended Price
8.00	0.00	8.00 EA		VC400-FA PVC-FEMAI	E-ADAP	ΓERS	S 1030	EA	1.0	7.1000	56.80
8.00	0.00	8.00 EA		VC400-BELL PVC-BELL-I		11	30	EA	1.0	7.5000	60.00
4.00	0.00	_		RC400-90EL n RIGID COI OPAZ-70	NDUIT EI	LBOV	V	EA	1.0	90.0000	360.00
6.00	0.00	6.00 EA 1		ROUNDROD		Т		EA	1.0	25.0000	150.00
6.00	0.00	6.00 EA 1		SI-GRC-58 SI GRC-58 5	'8 GROUN	ND R	OD CLAMP	EA	1.0	3.0000	18.00
2.00	0.00	2.00 EA 1		SI-GLC-440E 1/2-4in Direc		round	i Clamp	EA	1.0	95.0000	190.00
3,100.00	0.00	3,100.00 EA	٠.	4-PULLING- 4-PULLING-				EA	1.0	0.5850	1,813.50
4.00	0.00	4.00 EA 1		VC200-FA PVC-FEMAl	LE-ADAP	TERS	S 1026	EA	1.0	1.5000	6.00
2.00	0.00	2.00 EA 1		VC200-BELL - PVC BELL		112	26	EA	1.0	5.5000	11.00
45.00	0.00	45.00 FT		STR-BARE- STR-BARE-				M 1,0	0.00	1,250.0000	56.25

QUOTATION

Beacon Light & Supply Co. 422 N Main St Manchester, CT 06042 860-527-8236

Order Number					
1441535					
Order Date	Page				
2/28/2023 15:56:55	2 of 2				

Extended	Unit	Pricing UOM	Item ID		Quant	
Price	Price	Unit Size	Item Description	Remaining UOM Size	Allocated	Ordered
625.95	0.5850	EA 1.0	3/4-PULLING-ROPE 3/4-PULLING-ROPE	1,070.00 EA 1.0	0.00	1,070.00
41.90	20.9500	EA 1.0	GRC200-90EL 2in RIGID CONDUIT ELBOW TOPAZ-66	2.00 EA 1.0 <i>Ordered As:</i>	0.00	2.00
22,800.00	750.0000	C 100.0	PVC400 4-PVC SCH40 CONDUIT	3,040.00 FT 1.0	0.00	3,040.00
7,875.00	350.0000	C 100.0	PVC200 2-PVC SCH 40 CONDUIT	2,250.00 FT 1.0	0.00	2,250.00
34,064.40 0.00 34,064.40	TOTAL: TAX: NT DUE:				es: 14	Total Line



Proposal Request

One Hartford Square West 146 Wyllys Street, Suite 1-203 Hartford, Connecticut 06106 Phone: 860-547-1970

PROJECT:

Farmington High School &

(name, address)

FPS Central Office 10 Monteith Drive Farmington CT 06032

OWNER:

Farmington Public School

TO: Construction

O & G Industries, Inc. 112 Wall Street

Manager 112 Wall Street Torrington, CT 06790 PROPOSAL REQUEST NO: 09R

DATE: March 29, 2023

ARCHITECT'S PROJECT NO: 190701

STATE PROJECT NO: 052-0076N & 052-0077BE CONTRACTED FOR: CONTRACT DATED:

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 NEITHER A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN.

Following are revised drawings to accommodate Eversource revisions to primary routing. Also included in this PR revision is fiber conduit requested by the School

Attachments: E0.01, E0.11, E0.12, E0.13, E4.01, E4.02 & IT0.10

ARCHITECT: TSKP Studio

ELECTRICAL ABBREVIATIONS

CD SET

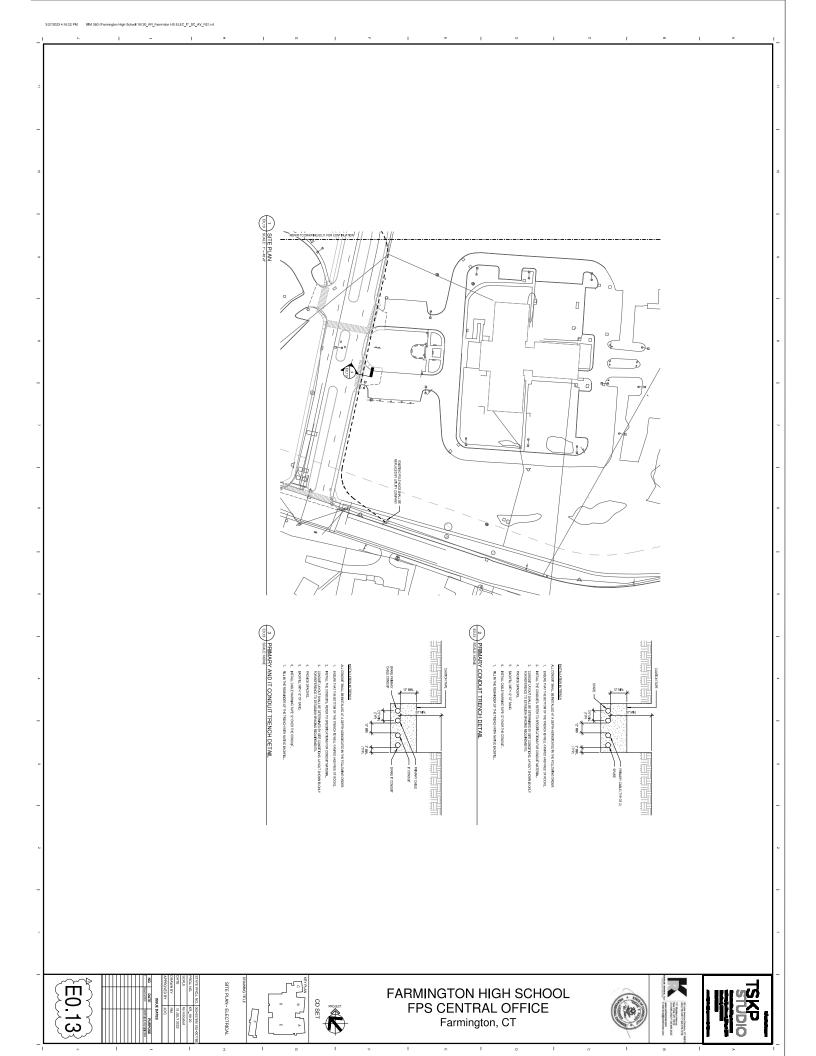
COVER SHEET -ELECTRICAL

FARMINGTON HIGH SCHOOL **FPS CENTRAL OFFICE** Farmington, CT

ELECTRICAL SYMBOLS





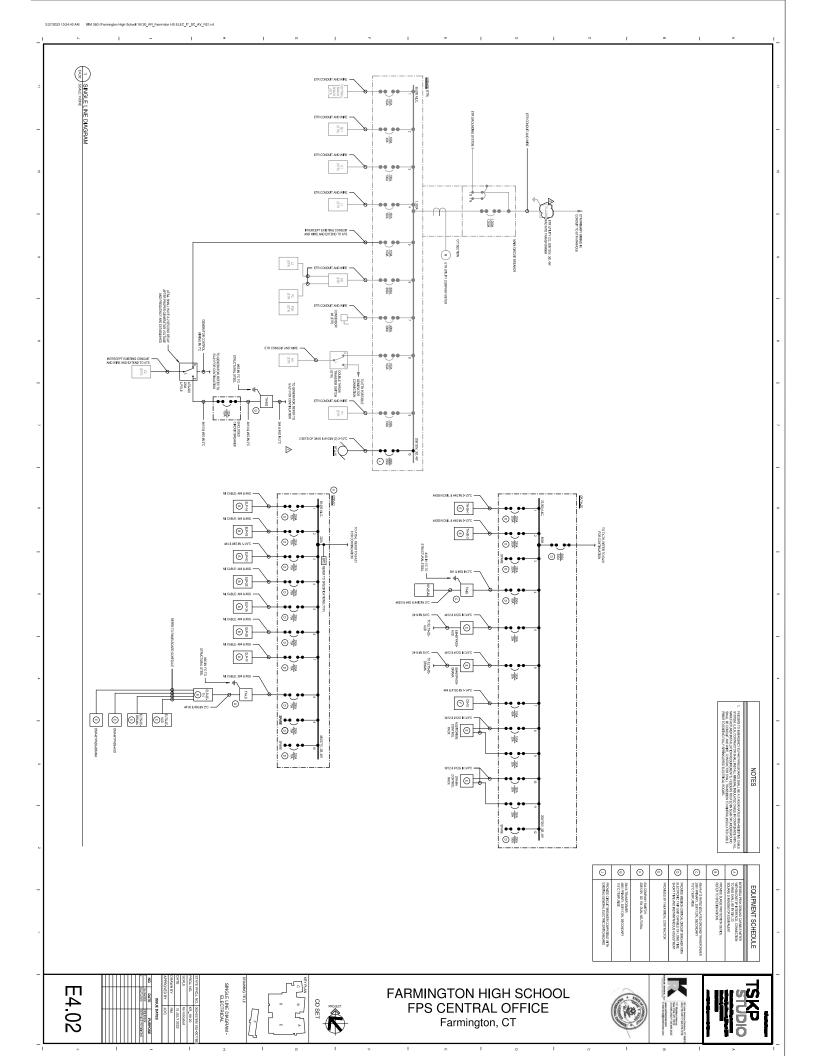


Farmington, CT









State Project No. 052-0076N Farmington High School Recommendation for Change Order



Date: April 10, 2023

Change Order Number: 010

Change Order Name: PR#6 - Deletion of Bi-Polar Ionization - FHS

Change Order Deduct Cost: -(\$34,744.00)

Description of Change Order: This proposal is for a lump sum material and labor credit to delete all Bi-Polar Ionization including the power as extended from the VAV Junction boxes. The Farmington Public Schools Facilities Department requested that bi-polar ionization be removed from the project scope due to there not being data/evidence supporting that this equipment is effective.

Reason for Change Order:

✓ Owner requested		
 Design team requested 		
 Construction manager requested 		
 Omission or error in drawings/specifications 		
□ Value Management		
Cost Source:		
☐ Construction Contingency		
✓ Owner Contingency – Credit back to the project		
Reviewed with Construction Manager:	<u>Yes</u>	No
Reviewed by Architect/Design Team:	Yes	No
FHS Decision Making Group:	Yes	No
Recommended to the Owner by Owner's Representative:	Yes	No

Notes: N/A



Proposed Change Order

Project: Farmington High School and

Central Office Renovation

Change No.: PCO 010

Change Name: PR #6 - Deletion of Bi-polar Ionization -FHS

To: Town of Farmington Change Event No.: CE-053

Contract No.: 2013902

Change Date: 4/4/23

Change Amount: (\$34,744.00)

Schedule Impact: 0 Days

Description:

CE-53; Eligible for OSCG&R. REF: Ferguson Mechanical COR# 608. TSKP PR#6 Deletion of Bi-polar Ionization dated 2/15/2023; Partial Specification (234300 - Electronic Air Cleaners, 230993.1.22-Sequence Of Operations For Hvac Plumbing And Electrical)This change proposal is a lump sum credit per owners request to delete all Bi-Polar Ionization including the power as extended from the VAV junction boxes. Overall credit amount is applied in accordance to PR #6 issued by the Design Team and as modified under review.

Proposed Change Items

Item No	Pay Item No	Pay Item Name	Amount
0001	230050-6080	Plumbing Trade Contractor	-\$34,239.00
0002	010815-6050	Liability Insurance	-\$291.00
0003	010805-6050	P&P Bonds	-\$214.00
		-	

-\$34,744.00

O&G Industries, Inc.	Town of Farmington
By: Nelson Reis - PM	By:
Date: 4/6/2023	Date:
Architect:	Owner's Representative:
Architect: By:	Owner's Representative: By:



Total Cost of Change For All Trades Affected	<\$34,239.00>
Insurance - GL/PL @ 0.85%	< \$291.03 >
Subtotal w/ GL/PL	< \$34,530.03 >
Performance & Payment Bonds @ 0.617%	< \$213.05 >
Subtotal w/ Bonds	< \$34,743.08 >
CM Fee @ 1.25%	< \$ 434.2 9 >
Total for Change	< \$ 35,177.37 >

CM Fees dose not apply to aggregated changes less then \$1M



112 Northwest Drive ● P.O. Box 430 ● Plainville, CT 06062 Voice (860) 747-4566 Fax (860) 793-5050

March 22, 2023

Mr. Nelson Reis O&G Industries, Inc 112 Wall Street Torrington, CT 06790

Re: Farmington High School

Dear Nelson,

Enclosed is proposal number <u>608</u> in the amount of <u>(\$34,239.00)</u>. This sum is for the direct cost of doing the work provided for the enclosed proposal. Ferguson Mechanical Co., Inc. hereby reserves its right to claim an extension of the contract time and any indirect costs attributable to such time extension. As soon as Ferguson Mechanical is able to quantify the delays and related indirect impact costs caused by the work covered in the enclosed proposals, we will forward these to you for your review.

This quote is valid for seven (7) days and is subject to change if not approved in that time frame.

Very truly yours,

FERGUSON MECHANICAL COMPANY, INC.

By <u>Thomas Ferguson/brf</u>
FM-FORM-3



BILL

TO:

O&G INDUSTRIES, INC.

112 WALL STREET

TORRINGTON CT 06790

WORK

FARMINGTON HIGH SCHOOL

DONE AT:

10 MONTEITH DRIVE

FARMINGTON, CT 06032

PHONE 860 489 9261 CUST# 54230

 JOB NO.
 CUST ORDER#
 TERMS
 REQUEST NUMBER
 DATE

 MOG221-608
 052-0076N&77BE
 Net 30
 608
 3/22/23

QUANTITY

DESCRIPTION

UNIT PRICE

AMOUNT

Per PR #6 — deletion of Bipolar ionization in its entirety.

(breakdown attached)

(\$34,239.00)

This proposal is valid for seven (7) days and is subject to change if not approved within this time frame.

Upon receipt of your change order or notice to proceed we will commence this work. If a notice to proceed is issued it must guarantee our ability to list the agreed upon amount on our requisition for monthly progress billing. Please acknowledge receipt of FM-FORM-3 on your change order when accepted.

C/O REQUEST TOTAL

-34,239.00- \$34,239.00

608 FERGUSON MECHANICAL CO., INC COP No. Rev. **Credit Proposal Summary Job Name:** Farmington High School Job Number: MOG221 Date: 3/22/2023 Job Description: 1 Per PR #6 - deletion of Bipolar ionization in its entirety. 3 Comments / Exclusions: Materials(0010): Total Materials; Ref. Credit Summary Sheets: 8 Quotes(0000): Total Quotes; Ref. Quote Summary Sheet: (30,878.00)Other(0030): Total Other; Ref. Quote Summary Sheet: 12 (30,878.00)\$ 13 Sub Total (Material, Equipment, & General Conditions): **Operator Hours: Additional Labor Efforts:** CAD, Detailing & Design Hours: Labor (001&400) 17 2023 Discipline Est. Hours ST/PT **Total Hours** 18 Rates Plmbr/Pipeftr: ST 100% 98.45 19 MH@ \$ 20 Plmbr/Pipeftr Frmn: ST 100% MH@ 120.03 21 Sheetmetal: ST 100% MH@ 97.96 22 119.54 Sheetmetal Frmn: ST 100% MH@ 23 Insulator: 100% MH@ 92.92 **Insulator Foreman:** ST 100% MH@ 114.50 25 ST 88.32 Operator: 100% MH@ 26 CAD / Design: ST 100% MH@ 105.00 General Foreman: ST 100% MH@ 122.03 28 MH@ \$ ST 100% 100% 29 ST MH@ Plmbr/Pipeftr: MH@ PT 31 Plmbr/Pipeftr Frmn: MH@ 32 PT Sheetmetal: MH@ Plmbr/Pipeftr: MH@ 34 Insulator: MH@ 35 Insulator Foreman: MH@ Operator: MH@ 37 CAD / Design: MH@ 38 General Foreman: PT MH@ 39 PT MH@ 40 MH@ 41 Sub-Total Labor Only: 42 (30,878.00)\$ Sub-Total Labor, Material, General Conditions Prior to Applicable Markup: 43 Overhead & Profit: + Sub-Total; Labor, Material, General Conditions, Credit & Overhead & Profit: \$ (30,878.00)Subcontracts (0020) 47 Total Subcontracts; Ref. Quote Summary Sheet: (3,360.86)\$

Subcontractor Overhead & Profit:

Performance & Payment Bond:

Sales Tax (if Required):

Sub Total: Subcontract & Overhead & Profit:

%

Credit Total:

\$

Permits:

(3.360.86)

(34,238.86)

48

50

QUOTES, OTHER & SUBCONTRACT SUMMARY SHEET

MOG221			CI	KEDIT					3/22/2023	Rev. 3			
					Jol	Description:	•						
Per	PR #6 - deletion of Bipolar ionization	in its entirety.											
	Comments / Exclusions	S:											
1	MATERIAL QU	OTES & DESCRIF	PTION			TOTAL QUOTE		VENDO	OR		LABOR (CARRIED ON DETAIL	L SHEETS
2	Plasma Air Credit					(\$30,878.00)	ν	vw roth	mann				
3													
4 5													
6													
7													
8													
9													
11			Subto	tal Material Q	uotes:	(\$30,878.00)							
12	OTHER / EQUIPMENT	QTY.	UNIT MEA	OTHER UNIT PRICE	PER	OTHER / EQUIP. EXTENSION	LABOR UNIT	P/F Per	SM Per	Ins Per	Plumber/Fitter Labor Extension	Sheetmetal Labor Extension	Insulation Labor Extension
13				-									
14 15				-									
16				-									
17				-									
18				-									
19 20				-									
21				-									
22				-									
23				Subtotal	Other:	Г	s	ubtotal	Other	Labor:			
24	SUBCONTRACTS & DESCR	RIPTION		VENDOI	R	TOTAL QUOTE	LABOR UNIT	P/F Per	SM Per	Ins Per	Plumber/Fitter Labor Extension	Sheetmetal Labor Extension	Insulation Labor Extension
25	Delete Bi-Polar ionization			ABS		(3,360.86)							
26													
27													
28													
29													
30													
31			Sui	btotal Subcon	tracts:	(3,360.86)	Subtoto	l Subco	ntract	Labor:			
32			Labo	r Subtotals	/ Fiel	d Labor Attri	butable t	to Add	ed Sco	ope			
33	Miscellaneous Ma							Lal	or Sub	totals:			
34 35				llation Hours									
36	Safety Percentage of Installation Hours 1.25% Material Handling												
37	· · · · · · · · · · · · · · · · · · ·												
38	training of the contract of th												
39 40	, , , , , , , , , , , , , , , , , , ,												
41	Field Estimating Support Field Coordination Efforts												
42				Field Asbuilt	Efforts								
43		•		Iaterial Qu		(30,878.00)	Sh	eet La	bor T	otals:			
44				tal Other It							Plumber/Fitter	Sheetmetal	Insulation
45	Total Subcontract Quotes:			(3,360.86)					Labor	Labor	Labor		

W. W. ROTHMANN CO., INC. 45 FARMINGTON VALLEY DRIVE PLAINVILLE, CT 06062

860-793-9450 860-793-9482 (FAX)

03/16/23

To: Ferguson Mechanical

Attn: Thomas

Regarding: Farmington High School Plasma Air credit

Ferguson Mechanical Purchase Order # 500971 item 040 included \$ 35,878 for Eleven Plasma Air systems. This letter confirms that these items are now deleted.

However, WW Rothmann did furnish engineering, coordination and administrative time for this project at a cost of \$ 5,0000

Please deduct a net of \$ 30,878 from your purchase order # 500971

Bryan Piepho



126 Kreiger Lane Glastonbury, CT. 06033

T: 806 657-9257 F: 860 657-3135

Date: 3/19/2023

Attention:

Ferguson Mechanical

RE: Farmington High School

		UV filtering on 12 Roof T	op Units. Modify Control Dr	awings
nd sequences				
		4-		
\$	(3,360.86)			

Drew Appleton Sales Engineer Automated Building Systems (860) 657-9257

Sales Tax is N/A

cc: file

ABS Pricing Summary

RE: Farmington High School		Date: 3/19	/202	23		
	Proposal #	1				
Labor		Hours		\$/Hr		Cost
Design Engineering		2.0	\$	122.00	\$	244.00
ABS Alerton Software Engineer		0.0	\$	130.16	\$	-
ABS Field Technician		-6.0	\$	116.00	\$	(696.00)
Electrician		-24.0	\$	116.00	\$	(2,784.00)
Project Coordination		1.0	\$	129.48	\$	129.48
Commissioning		0.0	\$	116.00	\$	100
					\$	
	Tot	al Field Labor			\$	(3,106.52)
<u>Material</u>	N . D	D 2	_		.	
Alerton Materials	Net Price, from		-		\$	(21(,00)
Outside Purchased Materials	Cost, from Pag	ge Z	-		\$	(216.00)
Fraight	8%				đ	(16.74)
Freight			-		\$	(10.74)
Taxes			+	(216.00)	\$	(21.60)
Markup, Outside Purch	10%		\$	(216.00)	\$	(21.60)
	-	Total Material			\$	(254.34)
		rotal Hateria			7	(25 110 1)
Subcontract		Units		Cost		
Subcontractor(Electric)	Est	0	\$	l at i.	\$	19
Subcontractor (Pneumatic)	Est	0			\$	
Subcontractor	Est	0			\$	-
Subtotal					\$	
Labor burden					\$	•
Markup	10%				\$	
	Tota	al Subcontract			\$	
	-		1 +			(2 260 96)
	10	tal	\$			(3,360.86)
Submitted by:						
Submitted by:						
Accepted by:						
Accepted Date:						
Accepted Date:						
cc: file						

Alerton Material

RE: Farmington High School

Date: 3/19/2023

	Pr	Proposal #		5	4	
<u>Description</u>	Part #	Qty	<u>List</u>	<u>Price</u>	To	tal
Material Multipli	er: 35%					
		0		\$0.00	\$	1
					\$	
					\$	
					\$	
					\$	18
					\$	
					\$	
					\$	
					\$	- 3
					\$	
					\$	
					\$	
					\$	
1115 1115					\$	
					\$	
					\$	
					\$	
side Material			Total	\$ -	\$	

<u>Description</u>	Part #	<u>Oty</u>		Cost	<u>Total</u>
Relay		-12	\$	18.00	\$ (216.00)
			-		\$ •
			\$		\$
		101	\$	-	\$ _
			\$	-	\$ -
			\$	•	\$
			\$	-	\$ -
			\$	•	\$ =
			\$	-	\$ 9
				Total	\$ (216.00)



KOHLER RONAN, LLC

171 Madison Avenue New York, NY 10016 T (212) 695-2422 F (212) 695-2423

93 Lake Avenue Danbury, CT 06810 T (203) 778-1017 F (203) 778-1018

kohlerronan.com

Rory S. Ronan, PE Craig F. Razza, PE Joseph V. Lembo, PE Steven V. Lemba, PE Erik D. Bodelsen, PE Talya Santillan, PE

Farmington High School PR-6

To:

Michael Scott

CC:

Archana Pai

KR Project #:

19120

Date:

2/15/2023

The following revisions have been made to the drawings and specifications under PR-6 as described below:

The owner has requested the deletion of all the bipolar throughout the entire FHS project. Contractors to provide a credit back to the project as the product has not been ordered and the initial submittal was returned revised and resubmit.

Mechanical:

Drawing M0.04:

 Detail 2, delete the Bi-Polar ionization in its entirety including the power as extended from the VAV junction boxes. Typical for RTU-1, 2,4,5,9,10,13 and 14.

Specifications:

234300 - ELECTRONIC AIR CLEANERS

Delete the entire section.

230993 - SEQUENCE OF OPERATIONS FOR HVAC, PLUMBING, AND ELECTRICAL CONTROLS:

230993.1.22-Delete the entire paragraph.

End of PRI

SECTION 234300 – ELECTRONIC AIR CLEANERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Bio Polar Ionization

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include dimensions; operating characteristics; required clearances and access; rated flow capacity, including initial and final pressure drop at rated airflow; mounting details, efficiency and test method; fire classification; furnished specialties; and accessories for each model indicated.

B. Submittals:

- 1. Documentation indicating that units comply with ASHRAE 62.1, Section 5 "Systems and Equipment."
- C. Shop Drawings: For each electronic air cleaner. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Show assembly, dimensions, materials, and methods of assembly of components.
 - 2. Include setting drawings, templates, and requirements for installing anchor bolts and anchorages.
 - 3. Schedule of devices per unit.
 - 4. Wiring Diagrams: For power, signal, and control wiring.

1.4 INFORMATIONAL SUBMITTALS

A. Field quality-control reports.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For each type of air cleaner to include in emergency, operation, and maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. UL 2998 for zero ozone emissions of less than 5 ppb.

FARMINGTON HIGH SCHOOL / CENTRAL OFFICE

- C. UL 867-2013 Ozone Standard for Electrostatic Air Cleaners including ozone chamber test required as of December 21, 2007.
- D. IP66 Enclosures
- E. UL 1995 Heating and Cooling Equipment.
- F. UL 2043 Standard for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces.
- G. OPA 2807-10, OPA 2808-10
- H. ASHRAE Compliance:
 - 1. Comply with applicable requirements in ASHRAE 62.1, Section 4 "Outdoor Air Quality"; Section 5 "Systems and Equipment"; and Section 7 "Construction and Startup."
- I. Comply with NFPA 90A and NFPA 90B.
- J. Comply with ARI 850.
- K. Comply with UL 867.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of pumps that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: minimum 18 months from substantial completion for Bi-Polar Ionization.
 - 2. Refer to specification section 23000 "General Provisions" for additional warranty requirements.

PART 2 - PRODUCTS

2.1 BI POLAR IONIZATION SYSTEM

- A. Description: Factory-fabricated Bi Polar ionization System.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Plasma Air Bar
 - b. Global Plasma-IMOD
- B. The bipolar ionization system shall operate in such a manner that equal amounts of positive and negative ions are produced. Single pole ion devices shall not be acceptable.

- a. Airflow rates may vary through the full operating range of a VAV system. The quantity of air exchange shall not be increased due to the air purification system requirements.
- b. Velocity Profile: The air purification device shall not have a maximum velocity profile.
- C. Humidity: Generators shall not require preheat protection when the relative humidity of the entering air exceeds 85%. Relative humidity from 0 100%, condensing, shall not cause damage, deterioration or dangerous conditions to the air purification system.
- D. Fully packaged system including needlepoint ionizers, assembly bar, controller and mounting supports in single housing for mounting upstream of the direct expansion cooling coil. Quantity of units shall be based on the fitting within the unit casing and unit airflow.
- E. Remote Controller: Integral to unit with adjustable output control power disconnect switch, IP54 rated. Rated for 120 volts/single phase, 60 Hz, internally fused, factory supplied 120 v to 12 v power supply, junction box wiring. Controller to be mounted inside the unit. BMS dry contacts for monitoring and alarm.
- F. Power consumption less than 55 watts.
- G. Housing: 22 gauge powder coated steel.
- H. ETL, UL and CCSA listed.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install bipolar ionization systems in air handling unit per manufactures requirements and as per locations indicated.

3.2 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installation, including connections.
- B. Tests and Inspections: Test for leakage of unfiltered air while system is operating.
- C. Prepare test and inspection reports.

3.3 DEMONSTRATION

A. Engage a factory-authorized service representative to train owner's maintenance personnel to adjust, operate, and maintain electronic air cleaners. Refer to section 017900 "Demonstration and Training."

END OF SECTION 234300

FARMINGTON HIGH SCHOOL / CENTRAL OFFICE

- 3. If the room temperature is below 68°F (adj), warmup commences. Unit heating coil is modulated by return air temperature subject to 95 deg F DAT. Room sensor modulates the VAV box hot water control valves, subject to a high limit of 95°F discharge air temp to assist. Warmup terminates when all room temperatures have remained above 70°F for a preset time period (try 30 minutes initially). Adjust the time delay as needed to allow for thermal capacitance of building construction materials.
- 4. Once all spaces are satisfied, the air handling unit shall revert to the calculated supply air setpoint.

1.22 BIPOLAR, NEEDLE POINT

A. Bipolar needlepoint ionization system located in the rooftop air handling unit shall operate whenever the unit supply fan is in operation. BMS to send a permissive to activate the system once flow is proven. BMS to monitor status and run hours. BMS to initiate an alarm if status of operation not received through unit's dry contacts.

1.23 DUST COLLECTION SYSTEM

- A. Duct collector shall be started and stopped through local duct collector control panel. BMS shall provide a permissive to start or stop the duct collector based on school schedules. Dust collector shall not be able to operate outside of the programmed schedule.
- B. BMS to monitor status, alarms and runtime of the duct collector.
- C. BMS to interlock the two intake motorized dampers with the duct collector operation. Dampers shall open upon receiving a start signal through duct collector status. When duct collector is off, dampers are closed.
- D. VAV box serving the carpentry shall have it heating maximum equal cooling maximum when the duct collector is in operation. When duct collector is off it shall operate as per standard sequence.
- E. When duct collector is on the return air isolation damper shall close serving the space. Open damper once dust collector is turned off. Coordinate operation with Finish Booth sequences and damper positions.
- F. BMS shall monitor general alarm off dust collector.
- G. All safety devices and control for dust collector are provided with the dust collector. BMS contractor to provide al interconnecting control wiring.

1.24 SEQUENCE OF OPERATIONS – HEATING SYSTEM (B-1 THROUGH B-3)

- A. Boiler interface will be via a BACNET gateway.
- B. Boilers and pumps shall be arranged in a lead/lag fashion. Boilers shall be controlled through manufactures lead/lag control panel as initiated on through the BMS.
- C. BMS shall initiate the heating system operation based on outside air temperature dropping below 60°F temperature (adjustable), if reheating is required science classrooms in Area A or B, RTU-3, 7 or 8 is in operation or for or a call for dehumidification and at least one floor space

State Project No. 052-0076N Farmington High School Recommendation for Change Order



Date: April 10, 2023

Change Order Number: 012

Change Order Name: BP 2.074n – Roofing Cost Savings Credit (NEW HS)

Change Order Deduct Cost: -(\$70,000.00)

Description of Change Order: This proposal is for a lump sum credit to the Roofing Trade Allowance balance as agreed between the CM and Owner. The original allowance carried was overestimated at bid time.

Reason for Change Orders	R	eas	on	for	Change	Order
--------------------------	---	-----	----	-----	--------	-------

	Owner requested
	Design team requested
	Construction manager requested
	Omission or error in drawings/specifications
✓	Other: Adjustment to trade allowance

Cost Source:

	Construction Contingency
	Owner Contingency
✓	Roofing Trade Allowance – Credit back to allowance

Reviewed with Construction Manager:	<u>Yes</u>	No
Reviewed by Architect/Design Team:	Yes	No
FHS Decision Making Group:	<u>Yes</u>	No
Recommended to the Owner by Owner's Representative:	Yes	No

Notes: N/A



Proposed Change Order

Project: Farmington High School and

Central Office Renovation

Change No.: PCO 012

Chang

Change Name: BP 2.07n -Roofing Cost Savings Credit (NEW HS)

To: Town of Farmington Change Event No.: CE-057

Contract No.: 2013902 Change Date: 4/4/23

Change Amount: (\$71,031.00)

Schedule Impact: 0 Days

Description:

CE-57; Eligible for OSCG&R. REF: Partial Specification Sec. 012100-2 - Roofing Trade Allowance. This change proposal is a lump sum credit that has been agreed upon between Construction Manager and the Owner. Roofing trade allowance balance has been adjusted to reflect this cost savings credit.

Proposed Change Items

Item No	Pay Item No	Pay Item Name	Amount
0001	075000-6080	Membrane Roofing Trade	-\$70,000.00
0002	010815-6050	Liability Insurance	-\$595.00
0003	010805-6050	P&P Bonds	-\$436.00
	*	•	674 004 00

-\$71,031.00

O&G Industries, Inc.	Town of Farmington
By: Nelson Reis - PM	By:
Date: 4/6/2023	Date:
Architect:	Owner's Representative:
By: Mich C 8H	By:
Date: 11 APR 2023	Date:



Total Cost of Change For All Trades Affected	< \$70,000.00 >
Insurance - GL/PL @ 0.85%	< \$595.00 >
Subtotal w/ GL/PL	< \$70,595.00 >
Performance & Payment Bonds @ 0.617%	< \$435.57 >
Subtotal w/ Bonds	< \$71,030.57 >
CM Fee @ 1.25%	< <u>\$887.88</u> >
Total for Change	< \$ 71,918.45 >

CM Fees dose not apply to aggregated changes less then \$1M

10,000	SF LS
1	
1	
1	
1	
1	LS
	1
Т	
1	LS
1	LS
1	LS
4,000	SF
1	LS
-	•
3,000	SF
1	LS
1	
1	
	1 4,000

012100-2

State Project No. 052-0076N Farmington High School Recommendation for Change Order



Date: April 10, 2023

Change Order Number: 013

Change Order Name: PR# 11 – Carbon Monoxide Detectors

Change Order Cost: \$6,357.00

Description of Change Order: This proposal includes all labor, material, and equipment to add 11 carbon monoxide detectors and eliminate 4 previously shown on the contract drawings.

Reason for Change Order:							
□ Owner requested							
✓ Design team requested – PR #11 issued by TSKP/Design	Team						
□ Construction manager requested							
 Omission or error in drawings/specifications 							
□ Other							
Cost Source:							
☐ Construction Contingency							
✓ Owner Contingency							
Reviewed with Construction Manager:	<u>Yes</u>	No					
Reviewed by Architect/Design Team: Yes No							
FHS Decision Making Group: Yes No							
Recommended to the Owner by Owner's Representative:	<u>Yes</u>	No					

Notes: These items were reviewed in the OAC meetings with the Design Team, Construction Manager and Owner.



Proposed Change Order

Project: Farmington High School and

Central Office Renovation

Change No.: PCO 013

Change Name: PR #11 - Carbon Monoxide Detectors

To: Town of Farmington Change Event No.: CE-060

Contract No.: 2013902

Change Date: 4/5/23

Change Amount: \$6,357.00 Schedule Impact: 0 Days

Description:

CE-60; Eligible for OSCG&R. REF: Ferguson Electrical Change Proposal #607 TSKP PR#11 Carbon monoxide detectors removed, relocated; dated 3/14/2023; This PCO is to provide all labor, equipment and materials to add (11) additional carbon monoxide detectors and eliminate (4) as previously shown on contract drawings. All work to be done in accordance with Proposal Request #11, Issued by Design Team and as modified under review process.

Proposed Change Items

Item No	Pay Item No	Pay Item Name	Amount
0001	260050-6080	Electrical Trade Contractor	\$6,265.00
0002	010815-6050	Liability Insurance	\$53.00
0003	010805-6050	P&P Bonds	\$39.00

\$6,357.00

O&G Industries, Inc.	Town of Farmington
By: Nelson Reis - PM	By:
Date: 4/6/2023	
Architect:	Owner's Representative:
By: Mich 2087	By:
Date: 11APR2023	Date:



PCO Review

DATE: 11 April 2023

TO: Nelson Reis, O&G Industries

PROJECT: Farmington High School (052-0076N/052-0077BE)

FROM: Michael Scott

RE: PCO – 013 PR #011 Carbon Monoxide Detectors

PAGE 1 OF: 1

TSKP Studios has reviewed the back-up provided by O&G and the subcontractors for the above reference item and offers the following summary:

- PR #011 relocated four carbon monoxide detectors and adds seven more to rooms which include fuel-fired forced air equipment. These detectors are a code requirement.
- PR #001 was issued prior to any associated work being performed in the field.
- The cost listed is commensurate with the extent of this change.
- There is no time impact associated with this item.

TSKP recommends approval of this PCO for the aggregate value of \$6,357.00.

cc: Ryszard Szczypek, TSKP Studio



Total Cost of Change For All Trades Affected	\$6,265.00
Insurance - GL/PL @ 0.85%	\$53.25
Subtotal w/ GL/PL	\$6,318.25
Performance & Payment Bonds @ 0.617%	\$38.98
Subtotal w/ Bonds	\$6,357.24
CM Fee @ 1.25%	\$79.4 7
Total for Change	\$ 6,436.70

CM Fees dose not apply to aggregated changes less then \$1M



112 Northwest Drive ● P.O. Box 430 ● Plainville, CT 06062 Voice (860) 747-4566 Fax (860) 793-5050

April 3, 2023

Mr. Nelson Reis O&G Industries, Inc. 112 Wall Street - P.O. Box 907 Torrington, CT 06790

Re: Farmington High School

Dear Nelson:

Enclosed is proposal number <u>607</u> in the amount of <u>\$6,265.00</u>. This sum is for the direct cost of doing the work provided for the enclosed proposal. Ferguson Electric hereby reserves its right to claim an extension of the contract time and any indirect costs attributable to such time extension. As soon as Ferguson Electric is able to quantify the delays and related indirect impact costs caused by the work covered in the enclosed proposals, we will forward these to you for your review.

Please note that this change proposal is based on straight time only, if the work has to be done on an overtime basis, the cost will be adjusted accordingly.

This quote is valid for seven (7) days and is subject to change if not approved in that time frame.

FE-FORM-3

MA # 490MR



BILL

TO:

O&G INDUSTRIES, INC. 112 WALL STREET TORRINGTON CT 06790

WORK

FARMINGTON HIGH SCHOOL

DONE

10 MONTEITH DRIVE

AT:

FARMINGTON, CT 06032

PHONE 860 489 9261 CUST# 69300

JOB NO. CUST ORDER# **TERMS** REQUEST NUMBER DATE E0G222-607 052-0076N&77BE Net 30 607 4/03/23

QUANTITY

DESCRIPTION

UNIT PRICE

AMOUNT

Labor, material and equipment to add or relocate Carbon Monoxide Detectors as outlined in PR-11.

(breakdown attached)

\$6,265.00

This proposal is valid for seven (7) days and is subject to change if not approved within this time frame.

Upon receipt of your change order or notice to proceed we will commence this work. If a notice to proceed is issued it must guarantee our ability to list the agreed upon amount on our requisition for monthly progress billing. Please acknowledge receipt of FE-FORM-3 on your change order when accepted.

C/O REQUEST TOTAL

6,265.00 \$6,265.00

Ferguson Electric Co., Inc.

112 Northwest Drive P.O. Box 430 Plainville, CT 06062 Client Address:

O&G Industries

Contact: Nelson Reis 10 Monteith Dr Farmington, CT 06032 Ferguson COP#: **607**Date: 4/3/2023

Project Name: Farmington High Project Number: EOG222

Project Number: PR-11
Page Number: 1

Work Description

Labor, material and equipment to add or relocate Carbon Monoxide Detectors as outlined in PR-11.

Comments

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.

Cutting, patching and painting will be performed by others at no cost to Ferguson.

Labor is based on normal working hours, non premium time, unless stated otherwise in the above Scope.

This price is good for acceptance within **10** days from the date of receipt.

We request a time extension of 3 days.

Itemized Breakdown

E1.12

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
302 1/2" MC CONN	- 2	0.00 C	-0.00	12.00 C	-0.24
MC CABLE SUPPORT	-5	0.00 C	-0.00	15.00 C	-0.75
4x1 1/2" OCT BOX 1/2" KO+TS-BRKT	-1	0.00 C	-0.00	30.00 C	-0.30
GROUNDING SCREW	-1	0.00 C	-0.00	2.75 C	-0.03
CARBON MONOXIDE DETECTOR	-1	0.00 E	-0.00	0.85 E	-0.85
F.A.14/2 MC CABLE	-50	0.00 E	-0.00	25.00 M	-1.25
OCTAGON BOX SUPPORT	-1	0.00 E	-0.00	6.00 C	-0.06
Totals	-61		0.00		-3.48

E1.13

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
302 1/2" MC CONN	-2	0.00 C	-0.00	12.00 C	-0.24
MC CABLE SUPPORT	-5	0.00 C	-0.00	15.00 C	-0.75
4×1 1/2" OCT BOX 1/2" KO+TS-BRKT	_1	0 00 C	-0.00	30 00 C	-0.30

ORIGINAL

Ferguson Electric Co., Inc. 112 Northwest Drive

P.O. Box 430 Plainville, CT 06062 Ferguson COP#: Date:

607 4/3/2023

Project Name:

Farmington High EOG222

Project Number:

PR-11

Project Change Request Number:
Page Number:

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
GROUNDING SCREW	-1	0.00 C	-0.00	2.75 C	-0.03
CARBON MONOXIDE DETECTOR	-1	0.00 E	-0.00	0.85 E	-0.85
F.A.14/2 MC CABLE	-50	0.00 E	-0.00	25.00 M	-1.25
OCTAGON BOX SUPPORT	-1	0.00 E	-0.00	6.00 C	-0.06
Totals	-61		0.00		-3.48

E1.14

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
302 1/2" MC CONN	2	0.00 C	0.00	12.00 C	0.24
MC CABLE SUPPORT	5	0.00 C	0.00	15.00 C	0.75
4x1 1/2" OCT BOX 1/2" KO+TS-BRKT	1	0.00 C	0.00	30.00 C	0.30
GROUNDING SCREW	1	0.00 C	0.00	2.75 C	0.03
CARBON MONOXIDE DETECTOR	1	0.00 E	0.00	0.85 E	0.85
F.A.14/2 MC CABLE	50	0.00 E	0.00	25.00 M	1.25
OCTAGON BOX SUPPORT	1	0.00 E	0.00	6.00 C	0.06
Totals	61		0.00		3.48

E1.15

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
302 1/2" MC CONN	2	0.00 C	0.00	12.00 C	0.24
MC CABLE SUPPORT	5	0.00 C	0.00	15.00 C	0.75
4x1 1/2" OCT BOX 1/2" KO+TS-BRKT	1	0.00 C	0.00	30.00 C	0.30
GROUNDING SCREW	1	0.00 C	0.00	2.75 C	0.03
CARBON MONOXIDE DETECTOR	1	0.00 E	0.00	0.85 E	0.85
F.A.14/2 MC CABLE	50	0.00 E	0.00	25.00 M	1.25
OCTAGON BOX SUPPORT	1	0.00 E	0.00	6.00 C	0.06
Totals	61		0.00		3.48

E1.16

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
302 1/2" MC CONN	4	0.00 C	0.00	12.00 C	0.48
MC CABLE SUPPORT	10	0.00 C	0.00	15.00 C	1.50
4x1 1/2" OCT BOX 1/2" KO+TS-BRKT	2	0.00 C	0.00	30.00 C	0.60
GROUNDING SCREW	2	0.00 C	0.00	2.75 C	0.06
CARBON MONOXIDE DETECTOR	2	0.00 E	0.00	0.85 E	1.70
F.A.14/2 MC CABLE	100	0.00 E	0.00	25.00 M	2.50
OCTAGON BOX SUPPORT	2	0.00 E	0.00	6.00 C	0.12
Totals	122		0.00		6.96

E1.25

Ferguson Electric Co., Inc. 112 Northwest Drive P.O. Box 430 Plainville, CT 06062		Ferguson COP#: Date: Project Name: Project Number: Project Change Request Number: Page Number:		607 4/3/2023 Farmington High EOG222 PR-11 3	
Description 302 1/2" MC CONN MC CABLE SUPPORT 4x1 1/2" OCT BOX 1/2" KO+TS-BRKT GROUNDING SCREW CARBON MONOXIDE DETECTOR F.A.14/2 MC CABLE OCTAGON BOX SUPPORT Totals	Qty 6 15 3 3 150 3 183	Net Price 0.00 0.00 0.00 0.00 0.00 0.00	C 0.00 C 0.00 C 0.00 C 0.00 E 0.00 E 0.00	Labor U 12.00 C 15.00 C 30.00 C 2.75 C 0.85 E 25.00 M 6.00 C	Total Hrs. 0.72 2.25 0.90 0.08 2.55 3.75 0.18 10.43
Description 302 1/2" MC CONN MC CABLE SUPPORT 4x1 1/2" OCT BOX 1/2" KO+TS-BRKT GROUNDING SCREW CARBON MONOXIDE DETECTOR F.A. 14/2 MC CABLE OCTAGON BOX SUPPORT Totals	Qty 4 10 2 2 100 2 1122	Net Price 0.00 0.00 0.00 0.00 0.00 0.00	C 0.00 C 0.00 C 0.00 C 0.00 E 0.00 E 0.00	Labor U 12.00 C 15.00 C 30.00 C 2.75 C 0.85 E 25.00 M 6.00 C	Total Hrs. 0.48 1.50 0.60 0.06 1.70 2.50 0.12 6.96
Summary					
FIRE ALARM DEVICES MATERIAL					3,489.27 312.56
Total Material					3,801.83
JOURNEYMAN FOREMAN NECA ADJUSTMENT .25	(24.34 Hrs @ \$88.85) (2.43 Hrs @ \$111.88) (-6.09 Hrs @ \$88.85)				2,162.61 271.87 -541.10
Total Labor					1,893.38
Markup	(@ 10.000 %)				569.52
Total Markups					569.52
Subtotal					6,264.73
Final Amount					\$6,264.73

CLIENT ACCEPTANCE

Ferguson Electric Co., Inc.Ferguson COP#:
Date:607112 Northwest DriveDate:4/3/2023P.O. Box 430Project Name:Farmington HighPlainville, CT 06062Project Number:EOG222

Project Number: PR-11
Page Number: 4

Ferguson COP#: Final Amount:	607 \$6,264.73
Name:	
Date:	
Signature:	
Change Order #:	
	I hereby accept this quotation and authorize the contractor to complete the above described work.

QUOTATION

INTEGRATED SYSTEMS SERVICES, LLC d/b/a TONE KLEAR SONICS 87 Church Street East Hartford, CT 06108 Tel (860) 610-0743 Fax (860) 289-0799

JOB Farmington High
DATE 03/20/23
CO Ferguson Electric
ATTN. Joe
TEL
FAX
PR#11

Qty Item

Authorized Signature

E	1.12
С	Credit Carbon monoxide detector located in Rm 1121 and 1117
Α	Add Carbon monoxide detector in rm 1100A
E	1.13
С	Credit Carbon monoxide detector located in Rm 1205 and 1201
Α	Add Carbon monoxide detector in rm 1100B
E	1.14
Α	odd Carbon monoxide detector in rm 1301
E	1.15
Α	Add Carbon monoxide detector in rm 1441
E	1.16
Α	Add Carbon monoxide detector in rm 1531 and 1552
E	1.25
Α	Add Carbon monoxide detector in rm 2420, 1452,1442
E	.126
Α	dd Carbon monoxide detector in rm 1560, 2522
R	Re-configure layout and revise submitted riser

NO ⁻	TES:	TOTAL	\$3,489.27	
	ses good for 30 days unless otherwise noted			
Inst	allation labor is not included unless otherwise specified			
Onl	y items listed on quotation are included in proposal			
Х	This proposal is as specified			
	This proposal is based on what we consider to be an appropriate equiva	alent		

QUOTATION

Beacon Light & Supply Co. 422 N Main St Manchester, CT 06042 860-527-8236

Order Number			
1443638			
Order Date	Page		
3/28/2023 08:49:34	1 of 1		

Bill To:

FERGUSON ELECTRIC CO INC 112 NORTHWEST DR P O BOX 430 PLAINVILLE, CT 06062 USA 860-747-4566

Ship To:

FERGUSON ELECTRIC CO INC 112 NORTHWEST DR P O BOX 430 PLAINVILLE, CT 06062 USA

Customer ID: 100390

	j	PO Number			Ship Route		Tak	ter	
FARMINGTON H.S. PR-11							LTHOM	ISON	
Quantities		Item ID	Item ID		Pricing UOM Unit		Extended		
Ordered	Allocated	Remaining UOM Uni	t Size disid	Item Descri	ption		Unit Size	Price	Price
14.00	0.00	14.00 EA	1.0 red As:	FLEX050-C 3/8in SADD TOPAZ-170	LE CONN 50/500	PK 170	EA 1.0	0.5979	8.37
35.00	0.00	35.00 EA	1.0	FLEX025-S	TRAP-1H ET 1H STRAP 100	/1000P 531A	EA 1.0	0.1050	3.68
7.00	0.00	7.00 EA	1.0	TOPAZ-G44 4IN OCT BC	151 DX 1-1/2 DEEP 1/2	2 KO	EA 1.0	1.6000	11.20
7.00	0.00	7.00 EA	1.0	MIN-80006J 10-32 X 3/8	HEX HEAD GRO	UND SCREW	C 100.0	7.9500	0.56
350.00	0.00	350.00 FT	1.0	14/2-FA-MC 14/2-FA-MC	C-1000 C-1000-REEL		M 1,000.0	825.0000	288.75
Total Lin	nes: 5						SUB-	TOTAL:	312.56 0.00
							AMOU.	NT DUE:	312.56



171 Madison Avenue New York, NY 10016 T (212) 695-2422 F (212) 695-2423

93 Lake Avenue Danbury, CT 06810 T (203) 778-1017 F (203) 778-1018

kohlerronan.com

Rory S. Ronan, PE Craig F. Razza, PE Joseph V. Lembo, PE Steven V. Lembo, PE Erik D. Bodelsen, PE Talya Santillan, PE Robert V. Hedman, PE

Farmington High School PR-11

To: Archana Pai

CC: Michael Scott

KR Project #: 19120

Date: 03/14/2023

The following revisions have been made to the drawings under PR -11 as described below:

Electrical:

E1.12

- Remove carbon monoxide detectors from 1121 and 1117 and relocated to other areas.
- Added carbon monoxide detector to 1100A.

E1.13

- Remove carbon monoxide detectors from 1205 and 1201 and relocated to other areas.
- Added carbon monoxide detector to 1100B.

E1.14

Added carbon monoxide detector to 1301.

E1.15

Added carbon monoxide detector to 1441.

E1.16

Added carbon monoxide detector to 1531 and 1552.

E1.25

Added carbon monoxide detector to 2420, 1452, and 1442.

E1.26

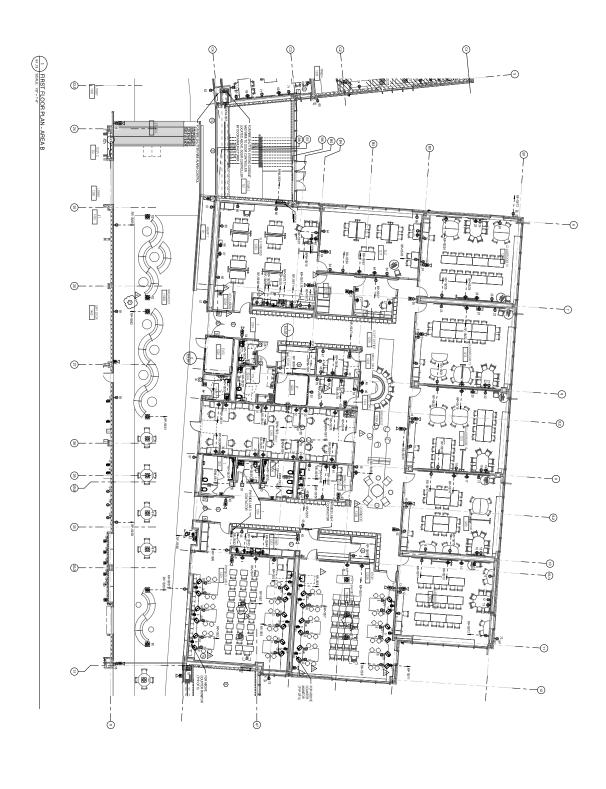
Added carbon monoxide detector to 1560 and 2522.

End of Addendum









FARMINGTON HIGH SCHOOL FPS CENTRAL OFFICE Farmington, CT













STAIR3



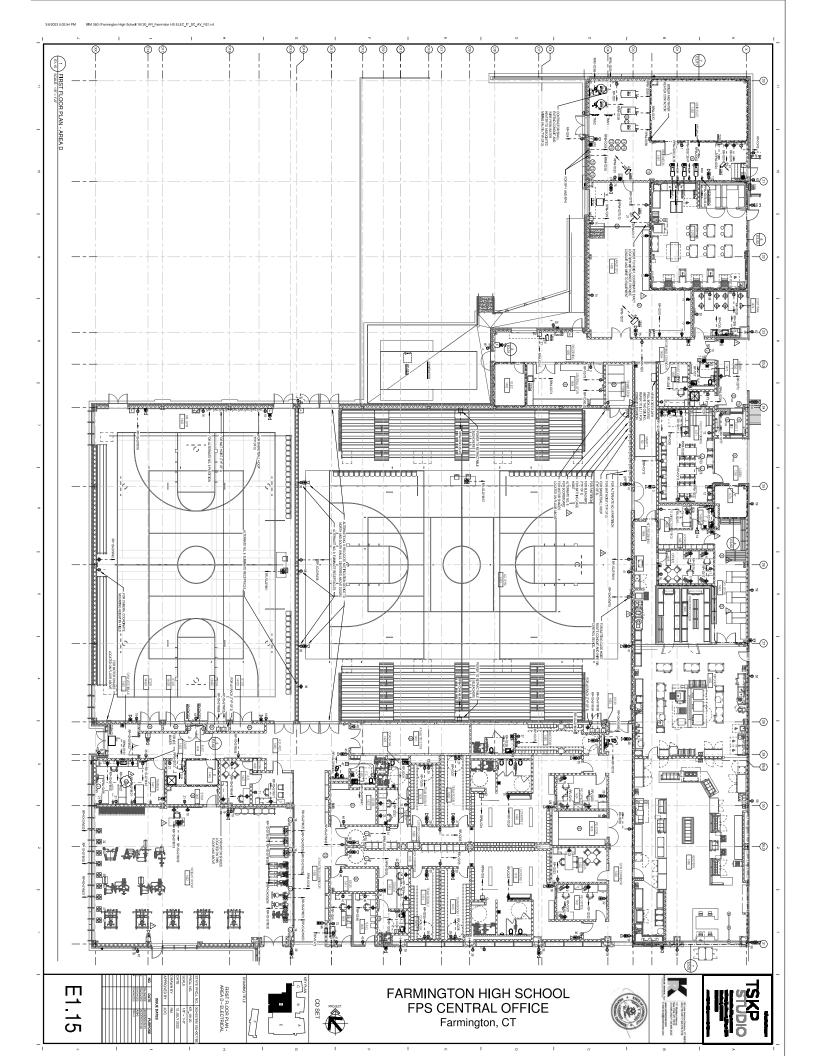


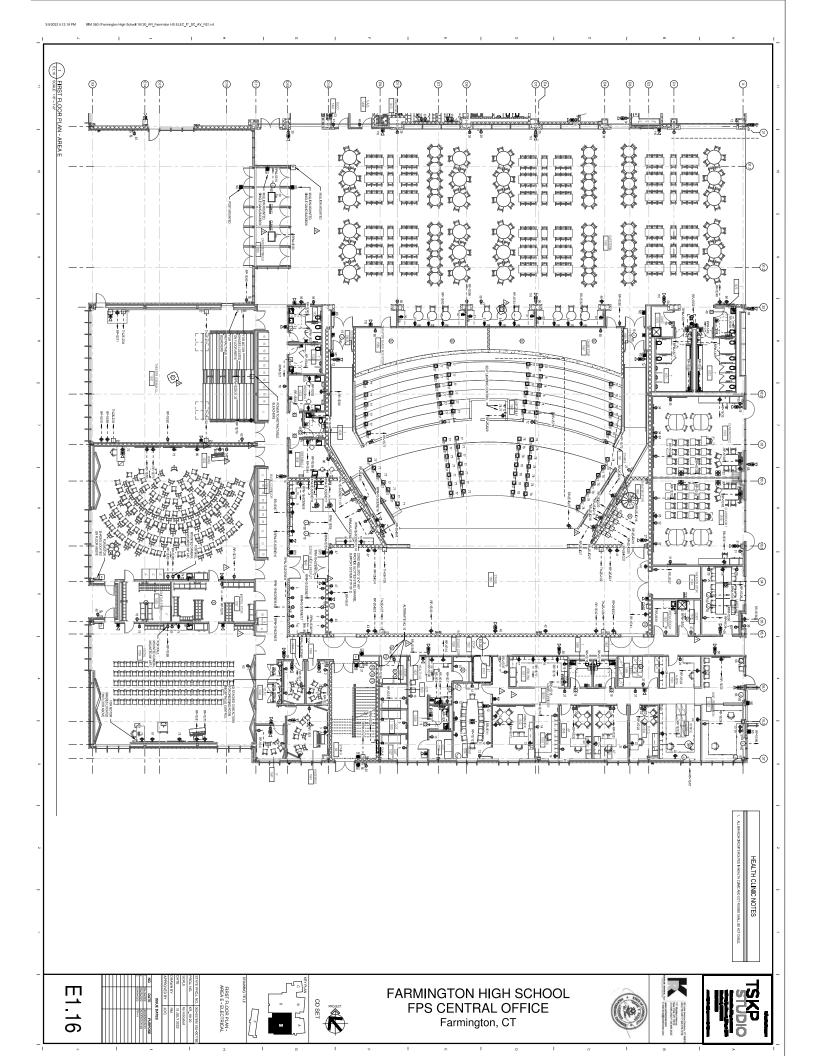


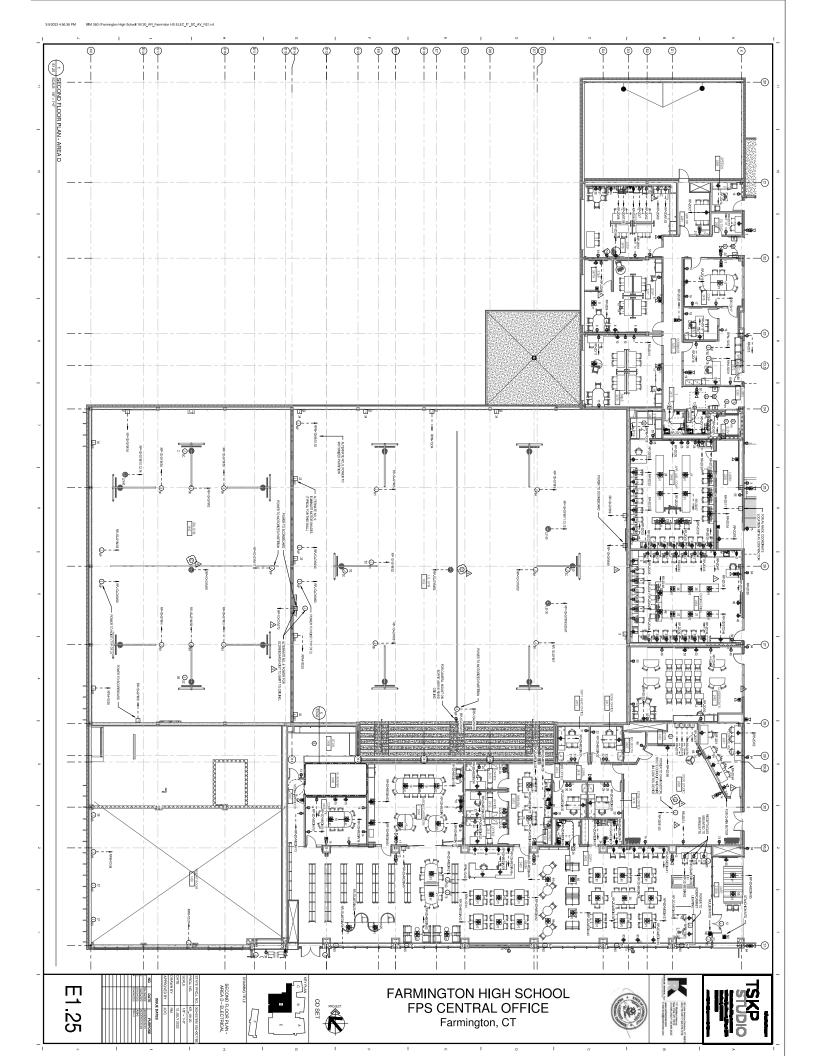














Proposed Change Order

Project: Farmington High School and

Central Office Renovation

Change No.: PCO 014

Change Name: CE-061 - BP 2.06 - VE_Display Case & Grade 1

Locks

To: Town of Farmington

Change Event No.: CE-061 Contract No.: 2013902

Change Date: 4/5/23

Change Amount: (\$74,277.00)

Schedule Impact: 0 Days

Description:

CE-61; Eligible for OSCG&R. REF: General Correspondence emails. This change proposal is a lump sum credit that has been agreed upon between Construction Manager and the Design Team regarding a cost savings to the project contract value.

Proposed Change Items

Item No	Pay Item No	Pay Item Name	Amount
0001	064010-6080	Arch Woodwork Trade	-\$73,200.00
0002	010815-6050	Liability Insurance	-\$622.00
0003	010805-6050	P&P Bonds	-\$455.00
			-\$74,277.00

O&G Industries, Inc. Town of Farmington Nelson Reis - PM 4/6/2023 Architect: **Owner's Representative:** Date: 11 APR 2023



Total Cost of Change For All Trades Affected	< \$73,200.00 >
Insurance - GL/PL @ 0.85%	< \$622.20 >
Subtotal w/ GL/PL	< \$73,822.20 >
Performance & Payment Bonds @ 0.617%	< \$455.48 >
Subtotal w/ Bonds	< \$74,277.68 >
CM Fee @ 1.25%	< \$928.47 >
Total for Change	< \$ 75,206.15 >

CM Fees dose not apply to aggregated changes less then \$1M

4/5/23, 7:37 AM Aconex

Michael Hawley LEGERE GROUP, LTD	VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	02/07/2023 LGL-GNC-000010	
Michael Hawley LEGERE GROUP, LTD	Re: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	02/24/2023 LGL-GNC-000024	
Nelson Reis O&G INDUSTRIES, INC.	Fwd: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	02/28/2023 O&G-GNC-000158	
Nelson Reis O&G INDUSTRIES, INC.	Fwd: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	03/13/2023 O&G-GNC-000187	
Stephen Combs LEGERE GROUP, LTD	Re: VE Options for Display Cases & Grade 1 Locks REQUEST FOR INFORMATION	03/01/2023 LGL-RFI-000007	
Nelson Reis O&G INDUSTRIES, INC.	Re: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	03/01/2023 O&G-GNC-000160	
Nelson Reis O&G INDUSTRIES, INC.	Fwd: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	03/13/2023 O&G-GNC-000188	
Archana Pai TSKP STUDIO	Fwd: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	03/14/2023 TSKP-GNC-000036	
Mason Coudriet O&G INDUSTRIES, INC.	Fwd: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	03/14/2023 O&G-GNC-000196	
Stephen Combs LEGERE GROUP, LTD	Re: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	03/17/2023 LGL-GNC-000025	
Mason Coudriet O&G INDUSTRIES, INC.	Fwd: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	03/17/2023 O&G-GNC-000215	
Samantha D'Agostino CONSTRUCTION SOLUTIONS GROUP, LLC	Re: VE Options for Display Cases & Grade 1 Locks GENERAL CORRESPONDENCE	03/16/2023 CSGL-GNC-000007	

Farmington High School and Central Office Renovation

10 Monteith Drive Farmington CT 06032 United States



MAIL TYPE MAIL NUMBER REFERENCE NUMBER
General Correspondence O&G-GNC-000215 LGL-GNC-000010

Fwd: VE Options for Display Cases & Grade 1 Locks

From Mr Mason Coudriet - O&G Industries, Inc.

To (5) Mr Mark Garilli - Construction Solutions Group, LLC (+4 more...)

Cc (3) Nelson Reis - O&G Industries, Inc. (+2 more...)

4/5/23, 7:37 AM Aconex

Sent Friday, March 17, 2023 10:07:35 AM EDT (GMT -04:00)

Status N/A

MESSAGE

All,

See below for the response we received from Legere.

Sam - finalized cost can also be seen in the email chain (\$73,200).

Thank you,



Mason Coudriet

Project Engineer, O&G Building Group

O&G Industries, Inc.

112 Wall St., Torrington, CT 06790

C: (860)488-6676 | O: (860)496-4810

Online at www.ogind.com

O&G Industries is an Equal Opportunity Employer









From: S Combs

Sent: 3/17/23 8:35:49 AM EDT (GMT -04:00) **To:** Michael Hawley, Andrea Pocsi, Mason Coudriet

Cc: Michael Kensah, Nelson Reis **Mail Number:** LGL-GNC-000025

Subject: Re: VE Options for Display Cases & Grade 1 Locks

- 1. Yes Legere can span the 6' at cafeteria diffuser.
- 2. Yes Legere can support 2 sided viewing.
- 3. Timberline lock is a VE.

From: M Coudriet

Sent: 3/14/23 12:19:33 PM PDT (GMT -07:00)

To: Tina Bonici, Stephen Combs, Michael Hawley, Betsy Kennedy, Andrea Pocsi

Cc: Michael Kensah, Nelson Reis **Mail Number:** O&G-GNC-000196

Subject: Fwd: VE Options for Display Cases & Grade 1 Locks

Michael / Stephen,

Can you please confirm the following items listed below?

Thank you,

4/5/23, 7:37 AM Aconex



Mason Coudriet

Project Engineer, O&G Building Group

O&G Industries, Inc.

112 Wall St., Torrington, CT 06790

C: (860)488-6676 | O: (860)496-4810

Online at www.ogind.com

O&G Industries is an Equal Opportunity Employer









From: A Pai

Sent: 3/14/23 2:54:32 PM EDT (GMT -04:00)

To: Mason Coudriet, Nelson Reis

Cc: Samantha D'Agostino, Mark Garilli, Samuel Kilpatrick, Ryszard Szczypek

Mail Number: TSKP-GNC-000036

Subject: Fwd: VE Options for Display Cases & Grade 1 Locks

To All,

Please confirm the following:

- 1. Can Legere Group built display cases to match dimensions shown on architectural drawings. Cafeteria display cases have space allotted for linear slot diffusers along top portion of the display case, can this detail be matched?
- 2. Area C display case allows viewing from two sides, can legere group match this display case type?
- 3. Provide benefits (other than cost) of using Timberline locks over Grade 1 locks.

Thank you,

Archana Pai, LEED AP BD+C, Senior Designer

One Hartford Square West | 146 Wyllys Street, Bldg 1-203 | Hartford, CT 06106 | 860.547.1970 x7039

TSKP STUDIO ARCHITECTURE | PLANNING | INTERIORS

Hartford | Boston www.tskpstudio.com

From: N Reis

Sent: 3/13/23 7:02:31 AM PDT (GMT -07:00)

To: Archana Pai

Mail Number: O&G-GNC-000188

Subject: Fwd: VE Options for Display Cases & Grade 1 Locks

Attached drawings from Woodrow Wilson School.

4/5/23, 7:37 AM Aconex



Nelson Reis

Project Manager, O&G Building Division O&G Industries, Inc.

112 Wall Street, Torrington, CT 06790

O: 203.586.1708 | C: 860.485.5587

ogind.com









O&G Industries is an Affirmative Action/Equal Opportunity Employer

Please be advised that the content of this e-mail is for discussion purposes only and, unless this disclaimer is explicitly referenced and excluded by the sender in the body of the email, is not intended to bind either party in contract. This transmission (including any attachments) is confidential, intended only for the named recipient(s) and may be legally privileged or exempt from disclosure under applicable law. If you are not the intended recipient(s), do not review, transmit, convert to hard copy media, copy, rely on or disseminate any part of this e-mail. Instead, please immediately notify the sender by return e-mail and then promptly delete this information from your system. "An Affirmative Action-Equal Opportunity M/F/Veteran/Disability Employer"

From: M Hawley

Sent: 2/7/23 9:27:54 AM EST (GMT -05:00)

To: Mason Coudriet, Michael Kensah, Nelson Reis
Cc: Stephen Combs, Michael Hawley, Andrea Pocsi

Mail Number: LGL-GNC-000010

Subject: VE Options for Display Cases & Grade 1 Locks

Good Morning,

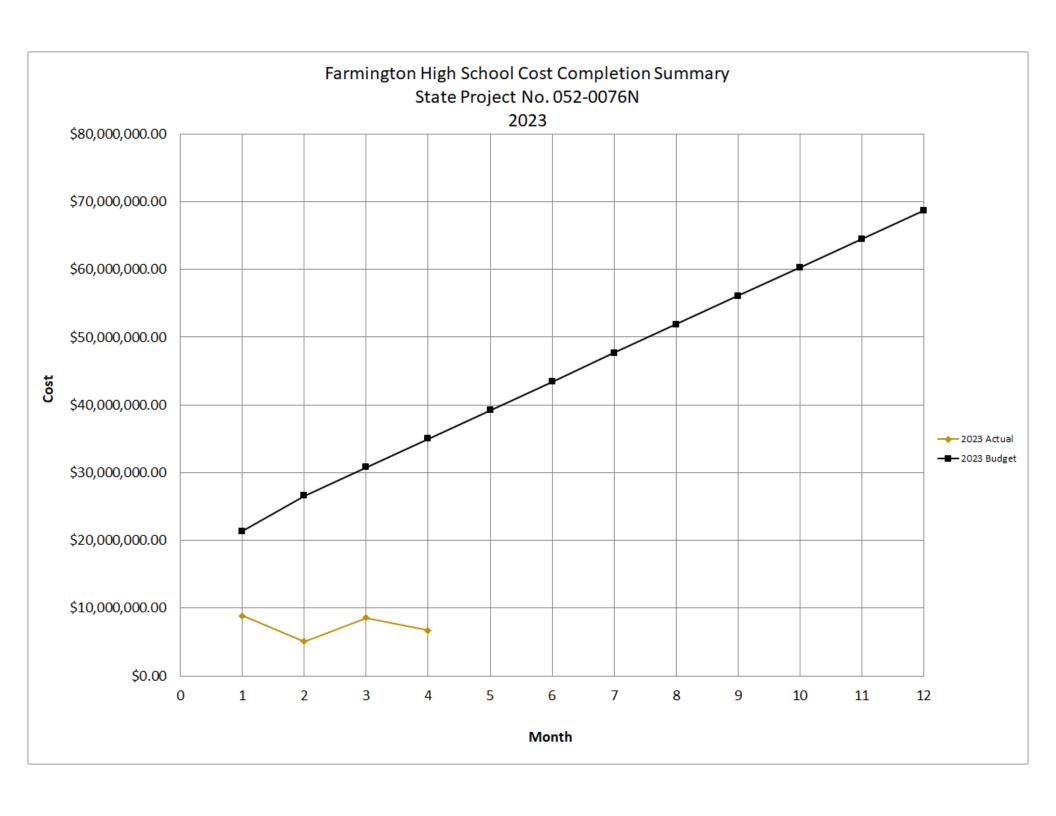
Attached below is the value saving for Legere Built Display Cases in lieu of Buyout Display Cases and Timberline Locks in lieu of Grade 1 Locks. I have also attached the Display Case shop drawings from Woodrow Wilson High School where we built the Display Cases for TSKP Studio as well. The only difference between the shop drawings and what I'm purposing now is I've included the cost for the Back Painted Tempered Glass that is shown by others in the attached Shop Drawings.

VE Option	VE Value
Legere Group Built Display Cases in lieu	
of Tablet & Ticket Display Cases	\$ (66,000.00)
Timberline Locks in lieu of Grade 1 Locks	\$ (7,200.00)

enda Item	D-1
enaa	item

To review the financial tracking charts.

/Attachment



MOTION: Agenda Item D-2

To review the cash flow projection.

NOTE: An updated cash flow projection will be reviewed at the meeting.