

CHANGE ORDER

AIA DOCUMENT G701

OWNER
ARCHITECT
CONTRACTOR
FIELD
OTHER

PROJECT: HVAC Improvements at Brick Township High School
(name, address) 346 Chambers Bridge Road
Brick, NJ 08723

CHANGE ORDER: 21R
DATE: March 7, 2017
PROJECT NO. 2759
(ARCHITECT'S)
CONTRACT DATE: February 25, 2015
CONTRACT FOR: HVAC

TO: AMCO Enterprises, Inc
(name, address) 600 Swenson Drive
Kenilworth, NJ 07033

The Contract is to be changed as follows:

Provide and labor & materials to install RHOGARD antifreeze with Deionized water in lieu of 100% propylene glycol and domestic water to fill the boilers in the east & west boiler rooms as recommended by the boiler manufacturer, Paterson-Kelley in the amount of \$11,719.21 per AMCO change order proposal #26R dated March 3, 2017 and Construction Change Directive 001 dated September 12, 2016. Revised amount increases credit for original glycol to \$8,000 back to Owner.

Amount to be added from the Contract is \$11,719.21

Not valid until signed by the Owner Architect and Contractor.

The original Contract Sum was.	\$4,458,000.00
Net change by previously authorized Change Orders.	\$254,821.12
The Contract Sum prior to this Change Order was.	\$4,712,821.12
The Contract Sum will be increased by this Change Order in the amount of.	\$11,719.21
The new Contract Sum including this Change Order will be.	\$4,724,540.33

The Contract Time will be unchanged by (0) days
The date of Substantial Completion as of the date of this Change Order therefore is Unchanged

NOTE: This summary does not reflect changes in the Contract Sum, Contract Time or Guaranteed Maximum Price which have been authorized by the Construction Change Directive.

DI CARA | RUBINO ARCHITECTS

ARCHITECT

30 GALESI DRIVE
WAYNE, NJ 07470

AMCO ENTERPRISES, INC

CONTRACTOR

600 SWENSON DRIVE
KENILWORTH, NJ 07033

BRICK TOWNSHIP BOARD OF EDUCATION

OWNER

101 HENDRICKSON AVENUE
BRICK, NJ 08724

BY: ROBERT M. JAMELLO, AIA

BY: AMIT THAKKER, VP OPERATIONS

BY: JAMES EDWARDS, BA

DATE: MARCH 7, 2017

DATE: March 7th, 2017

DATE:



Sales, Service, & Installation of HVAC Systems & Mechanical Work

CHANGE ORDER PROPOSAL #26 – REVISED RHOGARD ANTIFREEZE VS. PROPYLENE GLYCOL

March 3, 2017
September 8, 2016

Sent via email and 1st class mail

DICARA | RUBINO ARCHITECTS
30 Galesi Drive
Wayne, New Jersey 07470

Attn: Robert Iamello

Re: HVAC Upgrades @ Brick Township High School

Robert,

As per telephonic conversation with Mr. James Edwards (Brick Twp. BOE) this afternoon (03-02-17), we are submitting REVISED change order proposal for the additional work performed to provide and install RHOGARD Glycol with Deionized water at East and West Boilers- Brick Township High school project.

AMCO Enterprises, Inc. respectfully submits the following Change Order proposal associated with the cost of using RHOGARD antifreeze, with Deionized water, in lieu of 100% Propylene glycol and domestic water to fill the East and West hot water heating systems. Since the only product that is compatible with the boilers specified, and the lowest percentage solution for RHOGARD is 45%, we need to add deionized water to dilute the solution to 25% glycol.

Total cost: \$11,719.21 – REVISED Per Telephonic conversation (03-02-17)

Labor:

Service Technician – Addtl. handling glycol solution (12 hrs. @ \$91.32)	\$ 1,095.84
Coordination./Supervision – (2 hrs. @ \$125.00)	\$ 250.00
OH&P 10%	\$ 134.58
Subtotal (Labor)	\$ 1,480.42

Material:

100% propylene glycol (credit) (12) 55 gallon drums	-\$ 8,000.00
RHORG45 (27) 55 gallon drums @ \$475/drum	\$12,825.00
Additional (1) 55 gal. of RHOGARD ULTRA @ \$943.47 w/ freight	\$ 943.47
Deionized Water (22) 55 gallon drums @ \$150/drum	\$ 3,300.00
OH&P 10%	\$ 906.84
Subtotal (Material)	\$ 9,975.31

Total	\$11,455.73
Bond 2.3%	\$ 263.48
Total:	\$11,719.21

If you have any questions, feel free to contact us.

Regards,

Amit Thakkar

Amit Thakkar
AMCO Enterprises, Inc.

<u>Encl:</u> Quote from F.W. Webb	(1 page)
Cut sheet for "RHOGARD RG-45"	(2 pages)
Breakdown of the Additional cost	(1 page)
Invoice for Additional Glycol from F.W.Webb	(1 page)

CLARIFICATIONS:

Please note that following items are NOT included in this change order.

- 1) Any kind of Cleaning work including providing dumpster.
- 2) Electrical Work – No cost impact.
- 3) No water balancing, trenching, excavation, backfilling, gravel, or digging
- 4) Additional cost due to unforeseen conditions. AMCO will submit separate cost proposal for any additional work due to unforeseen conditions.

APPROVED & ACCEPTED BY: _____

APPROVED AMOUNT: _____

APPROVED DATE: _____

SIGNED BY: _____

F.W. Webb Company
30 Stefanic Ave
Elmwood Park, NJ 07407
TEL# (201-796-2600)
FAX# (201-796-5603)

Quote
Number
Date
06/24/16
51391660

To:
AMCO ENTERPRISES

600 SWENSON DRIVE
KENILWORTH NJ 07033

SAME
ATTN: AMIT
600 SWENSON DRIVE
KENILWORTH, NJ 07033
BRICK TOWNSHIP BOARD OF EDUCAT
Contact# (908-296-6041)

(908-241-4177) Fax# (908-241-4179)

Cust #	Customer PO#	Rel#	Ship Via	Writer	Date Req
161434	BRICK HS		DIRECT	VELL	08/31/16

PAGE 1 OF 1

Quoted To: AMIT THAKKAR Quoted By: VELL

Quantity	Description	Net Price	Exten	Ln#
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20	#RHOGARD RG45 + RHORG45 (S3046646) 55 GALLON DRUMS 45% PROPYLENE GLYCOL BLEND 1-2 WEEKS TO SHIP BY TRUCK FROM MISSOURI	475.000	9500.00	(1)
18	#55 GALLON DRUM OF DIONIZED + MISDIONIZEDWATER (S3047028) 6-9 DAYS LEADTIME ARO FREIGHT INCLUDED IN PRICE	150.000	2700.00	(6)

Sub Total: 12200.00
Tax: 0.00
Freight:
Handling:
Total: 12200.00

*** NUMBER OF DAYS QUOTE VALID IS 15 ***

PLEASE REFERENCE QUOTE # 51391660 FOR INQUIRIES OR ORDER OF ABOVE MATERIAL

+ THIS PRODUCT IS A SPECIAL ITEM. RESTOCKING FEES MAY APPLY.



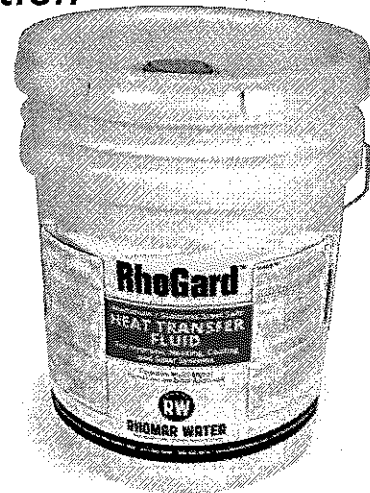
RHOMAR WATER

Heat Transfer Fluids • Hydronic System Solutions

RhoGard™

Aluminum/Stainless Steel Safe Multi-Metal Heat Transfer Fluid

- *Heating, Cooling and Solar System Fluid*
- *Blended with Virgin Propylene Glycol*
- *Can Be Diluted On-Site with Distilled or D.I. Water*
- *Multi-Metal Corrosion Inhibitors and Performance Additives*
- *Protects Multiple Metals, Including Aluminum and Stainless Steel*
- *Meets and Exceeds the Corrosion Protection Requirements of ASTM D1384*
- *Provides Years of Corrosion Protection*
- *Helps Keep Heat Exchange Surfaces Clean*
- *Maximizes System Efficiency*
- *Provides Freeze Protection to $< -60^{\circ}\text{F}$*
- *Provides Burst Protection to -100°F*
- *Environmentally Friendly*
- *Non-Toxic*



Available in a variety of container sizes.

Rhomar Water, 2103 E Rockhurst St., Springfield, MO 65802
1-800-543-5975 • www.RhomarWater.com



RHOMAR WATER

Heat Transfer Fluids • Hydronic System Solutions

RhoGard™

DESCRIPTION:

RhoGard™ is an Aluminum and Stainless Steel safe multi-metal antifreeze and heat transfer fluid specially blended with VIRGIN PROPYLENE GLYCOL, industrial corrosion inhibitors and performance additives.

ADVANTAGES:

RhoGard™ can be used in hydronic heating, cooling, and solar systems. **RhoGard™** can provide freeze protection to < -60 °F and burst protection to -100 °F. The multi-metal additives in **RhoGard™** can help protect metals including aluminum, brass, cast iron, copper and stainless steel from corrosion, scale and sludge deposits. **RhoGard™** meets and exceeds the corrosion protection requirements of ASTM D1384.

SOLAR SYSTEMS:

Solar fluids are susceptible to very hot and cold temperature extremes. It is recommended that **RhoGard™** be diluted no more than 80 % with 20 % distilled or D.I. water. However an alternative water source may be used provided its hardness is less than 100 ppm (6-grains) and both the chlorides and sulfates are less than 25 ppm. Higher concentrations of **RhoGard™** are also acceptable. The inhibitor additives in **RhoGard™** can withstand temperatures to over 400 °F (205 °C). The glycol/water mixture may experience boiling at very high temperatures if the system is not pressurized. Drain-back systems may experience burning of the glycol left in the lines when temperatures exceed 370 °F (188 °C) or higher.

DIRECTIONS:

All systems, new and existing, should be thoroughly cleaned and flushed using **Rhomar Water's Hydro-Solv™** cleaner prior to adding the heat transfer fluid. Properly cleaning the system will reduce the rate of corrosion and prolong the life of the heat transfer fluid. Determine the total fluid capacity of the system. Calculate the percentage of **RhoGard™** needed based on the "Freeze and Burst Protection Chart" shown below.

NOTICE:

When adding less than 50 % **RhoGard™** heat transfer fluid to a system, additional corrosion inhibitor should be added to ensure adequate corrosion protection. **Pro-Tek® 922** may be used for this purpose.

FREEZE AND BURST PROTECTION CHART:*

RhoGard™	Freeze Point	Burst Protection
100 %	< -60 °F	-100 °F
80 %	-26 °F	-90 °F
60 %	0 °F	-53 °F
50 %	+7 °F	-20 °F
40 %	+14 °F	+1 °F

**Freeze protection figures may vary slightly due to water chemistry. Burst Protection figures are estimates that will be affected by system design and components.*

TESTING:

Freeze protection level should always be verified with a glycol refractometer. Retest the system fluid annually to ensure proper freeze and corrosion protection. Samples may also be sent to **Rhomar Water** for testing by using the "Water Test Request Form" at www.RhomarWater.com.

CAUTION:

Although classified as non-toxic, **RhoGard™** DOES CONTAIN NON-FOOD GRADE ADDITIVES. Using **RhoGard™** in a potable water heating system may require a double-wall heat exchanger to comply with local regulations. Propylene glycol is not recommended for CPVC plastic piping.

REORDERS:

Call 800-543-5975 or visit our website at www.RhomarWater.com.

Rhomar Water, 2103 E Rockhurst St., Springfield, MO 65802
1-800-543-5975 • www.RhomarWater.com



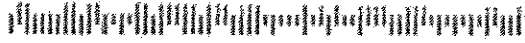
F.W. Webb Company
 Elmwood Park, NJ 07407
 201-796-2600

ORIGINAL INVOICE

Customer P.O. Number BRICK		Invoice No. 53258809	
Customer No. 161434	Ship Via DIRECT	Date Shipped 02/22/17	Invoice Date 02/22/17

Ship To
 SAME
 600 SWENSON DRIVE
 KENILWORTH, NJ 07033

BRICK TOWNSHIP BOARD OF EDUCAT



AMCO ENTERPRISES
 600 SWENSON DR
 KENILWORTH NJ 07033-1325

11

Ordered	Shipped	B.O.	Description	Line #	Net Price	Extension
1	1	0	#RG-U-55 MSVRG-U-55 63140533 RHOMAR WATER ALUMINIUM SAFE INHIBITED PROPYLENE GLYCOL RHOGARD ULTRA IS A CONCENTRATED PRODUCT. IT IS AT LEAST 94% PROPYLENE GLYCOL WITH THE REST ACCOUNTING FOR THE AQUEOUS CORROSION INHIBITORS TO PROTECT SYSTEM METALS FROM CORROSION. THEY USE VIRGIN PROPYLENE GLYCOL IN BLENDING ALL PRODUCTS. 100% PROPYLENE GLYCOL WITHOUT INHIBITORS CANNOT BE CONSIDERED AS BEING ALUMINIUM SAFE. DELIVERY: 7-10 DAYS ARO + FREIGHT	(1)	780.000	780.00

RECEIVED
 FEB 28 2017

AMCO Enterprises, Inc.

Materials purchased hereon are subject to terms and conditions on back hereof.
 OP-002-1,REV.0

Freight/Handling 163.47	Tax 0.00	Subtotal 780.00	943.47
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PAY THIS AMOUNT

REMITTANCE SLIP

Please detach at the perforation and remit this section with your payment.

Invoice Date 02/22/17			Invoice No. 53258809		Invoice Amount 943.47		AMOUNT REMITTED \$		Payment Terms 2% 10th Prox. Net 25th		
Customer No. 161434		BR# 66		Customer Name AMCO ENTERPRISES				Mail all remittances to: 160 Middlesex Turnpike Bedford MA 01730			

BRICK HS GLYCOL CALULATIONS

EAST BOILER ROOM

Metered water			620.00			
Exp. Tank			265.00			
UV's	18.00	0.50	9.00			
Piping (3.0 gal/ 100 ft)	18.00	0.90	16.20			
			<u>910.20</u>			
		10%	<u>91.02</u>			
			1,000.00			
100% Propylene Glycol		25%	(250.00)	\$	6.75	\$ (1,667.50)
RHORG45	45%	55%	550.00	\$	8.64	\$ 4,750.00
Deionized water	0%	45%	450.00	\$	2.73	\$ 1,227.27
						<u>\$ 4,309.77</u>

WEST BOILER ROOM

Metered water			830.00			
Exp. Tank			633.00			
UV's	36.00	0.50	18.00			
Piping (3.0 gal/ 100 ft)	36.00	0.90	32.40			
			<u>1,513.40</u>			
		10%	<u>151.34</u>			
			1,660.00			
100% Propylene Glycol		25%	(415.00)	\$	6.75	\$ (2,781.25)
RHORG45	45%	55%	913.00	\$	8.64	\$ 7,885.00
Deionized water	0%	45%	747.00	\$	2.73	\$ 2,037.27
						<u>\$ 7,141.02</u>

TOTAL DRUMS	Propylene	(12.00)	\$ 371.25	\$	(4,455.00)
TOTAL DRUMS	RHORG45	27.00	\$ 475.00	\$	12,825.00
TOTAL DRUMS	Dionized H2O	22.00	\$ 150.00	\$	3,300.00
					<u>\$ 11,670.00</u>