



CCO #005

ICS
 104 Park Ave N, Suite 201
 Park Rapids, Minnesota 56470
 Phone: (763) 354-2670

Project: S20020C - Grand Rapids Fire Department
 11th Street SE
 Grand Rapids, Minnesota 55744

Contract Change Order #005: CE #073 - ERV Change

CONTRACT COMPANY:	Shannon's Inc. 1919 Main Ave International Falls, Minnesota 56649	CONTRACT FOR:	SC-S20020C-007:WS 006 Mechanical Phase 2 Shannon's
DATE CREATED:	12/02/2021	CREATED BY:	Mark Cobb (ICS - Park Rapids, MN)
CONTRACT STATUS:	Pending - In Review	REVISION:	0
REQUEST RECEIVED FROM:		LOCATION	
DESIGNATED REVIEWER:	Mark Cobb (ICS - Park Rapids, MN)	REVIEWED BY:	
DUE DATE:		REVIEW DATE:	
INVOICED DATE:		PAID DATE:	
REFERENCE:		CHANGE REASON:	Client Request
PAID IN FULL:	No	EXECUTED:	No
ACCOUNTING METHOD:	Amount Based	SCHEDULE IMPACT:	0 days
FIELD CHANGE:	No	TOTAL AMOUNT:	\$6,237.00

DESCRIPTION:
CE #073 - ERV Change
 Submit an itemized line proposal for the Change Event to add controls for the ERV

ATTACHMENTS:
[QUOTE.pdf](#)

CHANGE ORDER LINE ITEMS:
CCO #005

#	Cost Code	Description	Type	Amount
1	A.-5.08 - WS 06 Mechanical	ERV Change	Other	\$ 6,237.00
Subtotal:				\$6,237.00
Grand Total:				\$6,237.00

The original (Contract Sum)	\$ 700,000.00
Net change by previously authorized Change Orders	\$ 24,242.50
The contract sum prior to this Change Order was	\$ 724,242.50
The contract sum would be changed by this Change Order in the amount of	\$ 6,237.00
The new contract sum including this Change Order will be	\$ 730,479.50
The contract time will not be changed by this Change Order by 0 days	

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Shannon's Inc.
 1919 Main Ave
 International Falls Minnesota 56649

City of Grand Rapids
 420 North Pokegama Ave
 Grand Rapids Minnesota 55744

City of Grand Rapids
 420 North Pokegama Ave
 Grand Rapids Minnesota 55744

DocuSigned by:

 SIGNATURE DATE
 12/8/2021

DocuSigned by:

 SIGNATURE DATE
 12/8/2021

SIGNATURE DATE SIGNATURE DATE SIGNATURE DATE



Grand Rapids Fire Hall Memorandum #2

10-12-21

Cost for Control Contractor to provide Control of ERV as noted in Memorandum #2 as follows:

JCI Costs: \$5,670.00

10% Markup \$567.00

Total cost: \$6,237.00



MEMORANDUM – 002

Date	10/6/21
Project #	2020203
Project Name	Grand Rapids Fire Hall
Project Location	Grand Rapids, MN
Description	ERV Operation

Below is a description of suggested operation sequence and setpoints for the Energy Recovery Unit.

Economizer Mode

When the outside air temperature is below 55 deg F (Adjustable) then the economizer sequence will be activated and the outside air, bypass, and exhaust dampers shall modulate to maintain the discharge air temperature at setpoint. The outside airflow shall not be allowed to drop below the minimum outdoor airflow setting.

When the outdoor air temperature is above 55 deg F, the economizer sequence shall be deactivated and the outside air, bypass and exhaust dampers shall modulate to maintain the outside airflow at minimum setpoint.

Defrost Mode

The specified unit is capable of operating without internal frosting at -10 deg F and 40% RH indoor humidity.

When the supply air discharge temperature drops below 40 deg F (adjustable) the outside air damper shall be closed, the supply fan shall be off, and the unit shall operate exhaust only for 30 minutes (adjustable).

If supply air discharge temp continues to drop below 40 deg F (adjustable) the supply and exhaust fans shall be turned off and the outside air and exhaust air dampers shall be closed for a period of 30 minutes (adjustable)

Sincerely,
Obernel Engineering

Ryan Wicklund

From: Ryan Wicklund
Sent: Tuesday, October 12, 2021 7:32 AM
To: Ryan Wicklund
Subject: FW: GR Fire Hall ERV
Attachments: MEMORANDUM_002.pdf

From: Brian C Schmidt <Brian.C.Schmidt@jci.com>
Sent: Friday, October 8, 2021 1:24 PM
To: Ryan Wicklund <rwicklund@shannonsinc.us>
Cc: Tom Hardy <tom.hardy@shannonsinc.us>; David Hebig <dhebig@shannonsinc.us>; Austin Magnuson <austin.magnuson@jci.com>
Subject: FW: GR Fire Hall ERV

Hi Ryan –

Good afternoon. Yes, we would be able to do this. This is less control work than we were asked to quote previously.

JCI material and labor to provide controls for ERV, per Memorandum 002 = \$5,670

Please let me or Austin know if you have any questions.

Thanks,

Brian Schmidt
Johnson Controls
4627 Airpark Blvd
Duluth, MN 55811
218-391-8853 (phone)

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