



RAFAT

8850 GEORGE BOLTON PARKWAY, CALEDON, ONTARIO L7E 2Y4

Shop Drawings
Transmittal No:

23 82 39-01R0

Project Name:	Construction of Victoria Park Arena and Brampton Sports Hall of Fame	Project No.	NRFP2024-232
		DATE:	06 Feb 2025
		Submittal Required Return Date:	20 Feb 2025
Submittal No:	27		

Title:	SD-Electric Duct Heaters EBC-1-3
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To:	Mark Falkenburger
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Checked by:	Abdullah Hissamuddin	To Be Reviewed By the Following Consultants	Architecture49 & WSP
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Submitted for:	Review and Approval
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Consultants Response	
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☐ REVIEWED	BY Jerry Nweisser
☐ REVIEWED AS NOTED	DIVISION Buildings - Sustainability
☒ REVISE & RESUBMIT	DATE 2/20/2025
	SUBMITTAL# 21-03
	PROJECT CA-WSP-221-05263-00
THE REVIEW OF THIS DRAWING DOES NOT IN ANY WAY RELIEVE THE VENDOR OR CONTRACTOR OF RESPONSIBILITY FOR ITS ACCURACY OR FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.	



SUBMITTAL REVIEW
For general compliance with the design concept and contract documents. Subcontractor is solely responsible for jobsite correlation and correctness of all ratings, sizings, type, style, dimensions, finish, quantities and satisfactory fitting to other work and equipment. This review does not change the intent of the contract document.

REVIEWED

RESUBMIT

REJECTED



SHOP DRAWING REVIEW

Project Name: Victoria Park Arena

Project No. CA-WSP-221-05263-00

Date 2025-02-19

Received:

Shop Drawing: Title: Electric Duct Heaters

Revision: 00

Submission No.: 21-03

This review by consultant is for sole purpose of ascertaining conformance with general design concept. This review does not mean that consultant approves detail design inherent in shop drawings, responsibility for which remains with contractor, and such review does not relieve contractor of responsibility for errors or omissions in shop drawings or of contractor's responsibility for meeting all requirements of contract documents. Be responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication process or to techniques of construction and installation, and for coordination of the work of subtrades.

☐ Reviewed	Mechanical Review Required ☒		Electrical Review Required ☒	
	Reviewed by:	Jerry Nweisser	Reviewed by:	Brad Li
	Review Date:	2025-02-19	Review Date:	2025-02-20
☒ Revise & Resubmit				
Item	Comments			
1.	Contractor to include the required control component for frost control. Submittal shows that this has been excluded, please provide justification for exclusion.			
	Elec review comments below (Reviewed as noted)			
2.	The tags for EBCs units on Elec drawings were shown as ECB, but it was the same unit as EBC as per Mech schedule and layout, and the tags on Elec drawings should have been corrected to EBC, contractor could correct the typo of the EBC unit on Elec as-built drawings set.			

End of Review



54 Audia Court, Unit 2
Concord, ON L4K 3N5
(905)-738-1400

Submittal 24-280-001

PROJECT NAME	PROJECT ADDRESS	DATE SUBMITTED
VICTORIA PARK ARENA	24-280 20 Victoria Crescent, Brampton, ON L6T 1E4	Feb 3, 2025

TO	FROM
Abdullah Hissamuddin	INZAMAN KHAN
COMPANY	COMPANY
RAFAT GENERAL CONTRACTOR INC.	Consult Mechanical Inc.
EMAIL	EMAIL
abdullah.hissam@rafat.ca	inzaman@consultmechanical.com
ADDRESS	ADDRESS
8850 GEORGE BOLTON PKWY BOLTON, ON L7E 2Y4	54 Audia Court, Unit 2 Concord, ON L4K 3N5

Title

Electric Duct Heaters EBC-1-3 (23 82 39)

Description

- EBC-1 1kW 120V/1PH
- EBC-2 3.4kW 120V/1PH
- EBC-3 2kW 120V/1PH
- Frost control not included
- Lead : 6-8 weeks

Package Items

Submittal # 85160
APPROVAL REQUIRED

Project 22104386-MECH-1- Brampton Victoria Park Arena
Leader Nevin Wong
Job Site Brampton Victoria Park Arena
Submission Date 2025-02-03
Sold To CONSULT MECH
Submitted By Chantal Koudou

Contacts

Role	Customer	Contact	Our Rep
Mechanical Contractor	Con-Sult Mechanical Inc.*	Inzaman Khan	Nevin Wong
General Contractor	Rafat General Contracing Inc		
Mechanical Contractor	Con-Sult Mechanical Inc.*	Mohammed Ali Khan Lodhi	Nevin Wong
Mechanical Contractor	Con-Sult Mechanical Inc.*	Paul Leddy	Nevin Wong
Designer	WSP MMM Group		Alex Forsea

Deliverables

Track #	289037		
Tag	EBC-1-3		
Description	Electric Duct Heaters		
Quantity	3		
Production Lead Time	6 - 8 weeks		
Revision #	0		

Notes:

C/w:

- EBC-1 1kW 120V/1PH
- EBC-2 3.4kW 120V/1PH
- EBC-3 2kW 120V/1PH
- Frost control not included

Attention:

- 1) HTS will provide equipment in accordance with the attached shop drawings.
- 2) Upon approved submittal and customer release, HTS will release equipment to fabrication per the published lead times. Any storage fees associated with project schedule changes will be the responsibility of the purchaser.
- 3) HTS can provide freight and logistics to the purchaser as an added benefit of doing business with HTS. When freight is received by the purchaser, any noticeable damage must be recorded. Otherwise, HTS is not responsible for subsequent damage claims.

Approval Stamps

Electric duct heater shop drawings

SCHEDULE OF ELECTRIC BOOSTER COIL									
TAG	AREA SERVED	TYPE	AIRFLOW (L/S)	CAPACITY (KW)	DUCT INLET SIZE (MM)	E.A.T. (°C)	L.A.T. (°C)	ELECTRICAL V/Φ/Hz	REMARKS
EBC-1	ERV-2	ELECTRIC	40	1.0	150x150	-21.0	-1.0	120/1/60	1
EBC-2	ERV-3	ELECTRIC	140	3.4	250x250	-21.0	-1.0	120/1/60	1
EBC-3	ERV-4	ELECTRIC	80	2.0	200x200	-21.0	-1.0	120/1/60	1
NOTES: 1. C/W THE REQUIRED CONTROL COMPONENT FOR FROST CONTROL. CONNECT TO ERV CONTROLLER.									



2060, LUCIEN-THIMENS STREET, ST-LAURENT, QUÉBEC, CANADA H4R 1L1
TEL.: 514-336-9130 FAX: 514-336-3270

A P P R O V A L D R A W I N G S

PAGE 1

CUSTOMER NAME : HTS ENGINEERING LTD.
CONSULTING ENG. :
PROJECT : BRAMPTON VICTORIA PARK AREN
CONTRACTOR :

☐ IMPERIAL
SYSTEM

COPIES:

☒ METRIC
SYSTEM

MT

CSA - NRTL/C
APPROVED # LR-30551

DATE Y M D
24/07/18

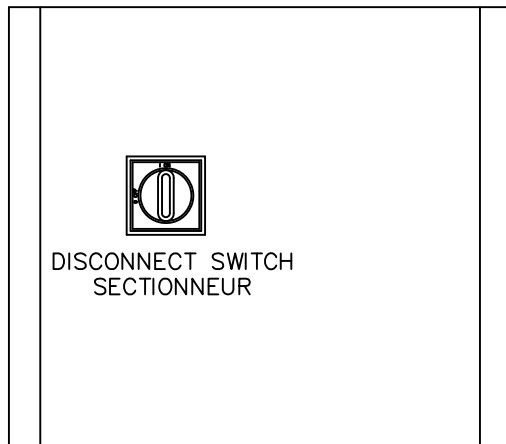
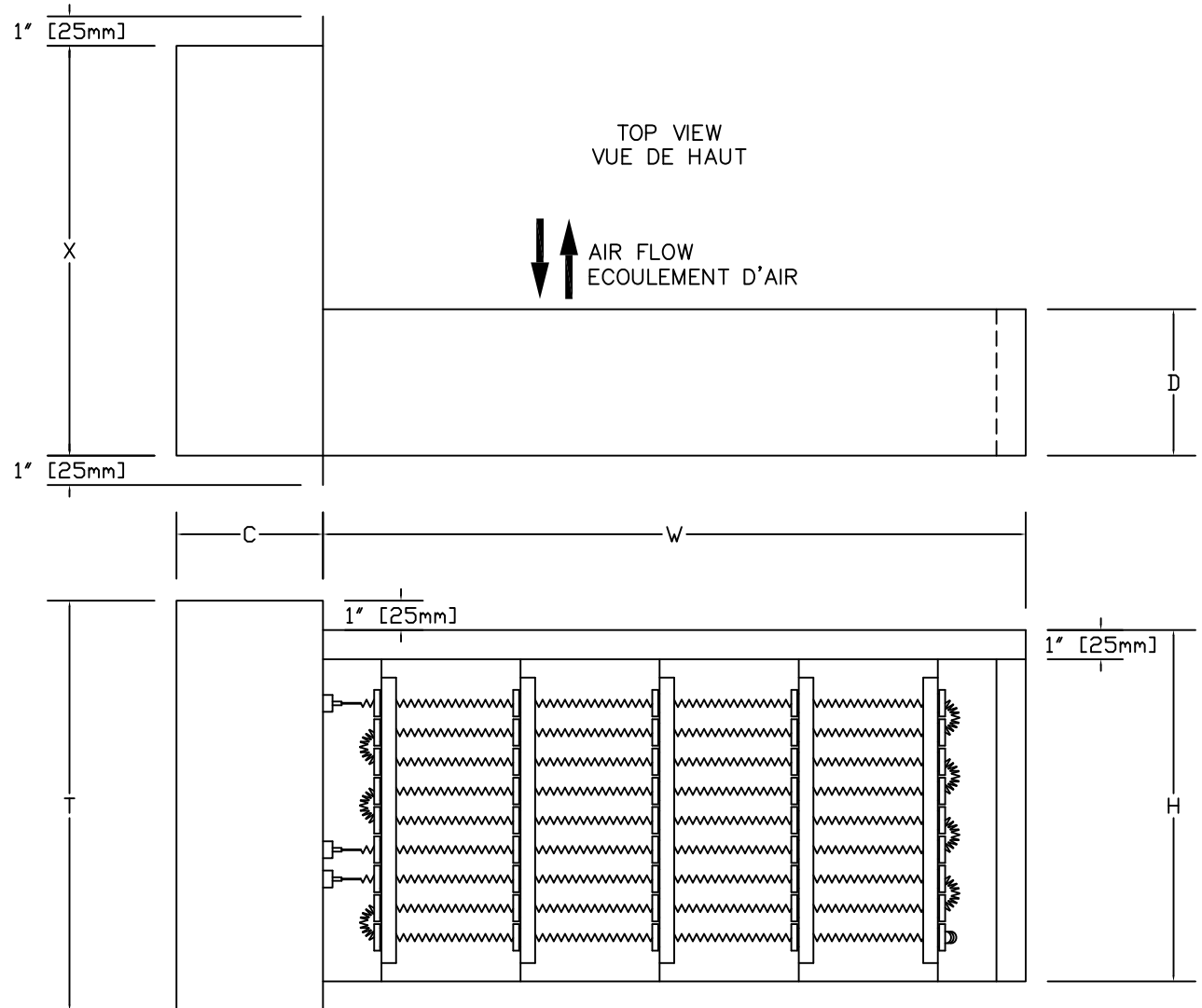
P.O. NUMBER

QUOTE #

QUOTE

863608

ELECTRICAL HEATER			DIMENSIONS SEE ATTACHED MECHANICAL DRAWING				ELECTRICAL DATA					BUILT-IN CONTROLS
ITEM	TAG	QUANTITY	W	H	D		KW	VOLT / PH	AMPS	ST /	KW	
MECHANICAL DRAWING #			TYPE	T	X	C	ELECTRICAL DRAWING #		CFM · l/s	FPM · m/s	CONTR VOLTS	OPTIONS SYMBOLS ARE EXPLAINED BELOW
1	EBC-1	1		152	152	127	1.00	120/1	8.33	1/	1.00	CACNT0P6ICB1AAX6SC
MSC0-10LS-1002-0000			SC	254	457	127	1B10-DS1U-1000-0000		40	1.73	24	
2	EBC-2	1		250	250	127	3.40	120/1	28.32	1/	3.40	CACNT0P6ICB1AAX6SC
MSC0-10LS-1002-0000			SC	356	356	127	1B10-DS1U-H000-0000		140	2.24	24	
3	EBC-3	1		200	200	127	2.00	120/1	16.66	1/	2.00	CACNT0P6ICB1AAX6SC
MSC0-10LS-1002-0000			SC	254	457	127	1B10-DS1U-1000-0000		80	2.00	24	



TITLE/TITRE
TYPICAL SLIP-IN TYPE HEATER
SERPENTIN A INSERTION TYPIQUE



THERMOLEC
MONTREAL - CANADA

LTEE
LTD

DRAWING NO. MSC0-10LS-1002-0000

DATE

PER

