

8850 GEORGE BOLTON PARKWAY, CALEDON, ONTARIO L7E 2Y4

Shop Drawings	23 57 00-01R0
Transmittal No:	200, 00 01110

Project Name:		Project No.	NRFP2024-232	
	of Fame	DATE:	25 Feb 2025	
•		Submittal Required	11 Mar 2025	
		Return Date:		
Submittal No:	42			
Title:	SD-Heat Exchangers			
To:				
	Mark Falkenburger			
Checked by:	Abdullah Hissamuddin	To Be Reviewed By the	Architecture49 & WSP	
		Following Consutlants		
		•		
Submitted for:	Review and Approval			
Consultants Response				

wsp			
✓ REVIEWED	BY Jerry Nweisser		
	DIVISION Buildings - Sustainability		
REVIEWED AS NOTED	DATE 3/11/2025		
REVISE & RESUBMIT	SUBMITTAL# 21-12		
	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.			





SHOP DRAWING REVIEW

Project Name: Victoria Park Arena Project No. CA-WSP-221-05263-00

Date 2025-03-11

Received:

Shop Drawing: Title: Heat Exchanger

Revision: 00 Submission No.: 21-12

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.

⊠ Revie	wed	Mechanical Rev	view Required ⊠	Electrical Review F	Required [
□ Revie	wed as Noted	Reviewed by:	Jerry Nweisser	Reviewed by:		
□ Revis	e & Resubmit	Review Date:	2025-03-11	Review Date:		
Item	Comments					
1.						
2.						

End of Review



Submittal 24-280-009

PROJECT NAME PROJECT ADDRESS DATE SUBMITTED

VICTORIA PARK ARENA 24-280 20 Victoria Crescent, Brampton, ON L6T 1E4 Feb 19, 2025

TO FROM

Abdullah Hissamuddin PAUL LEDDY

COMPANY

RAFAT GENERAL CONTRACTOR INC. Consult Mechanical Inc.

EMAIL

abdullah.hissam@rafat.ca paul.l@consultmechanical.com

ADDRESS

8850 GEORGE BOLTON PKWY BOLTON, ON L7E 2Y4 54 Audia Court, Unit 2

Concord, ON L4K 3N5

Title

Consult Submittal for Heat Exchangers

Description

Bell and Gossett GPX Heat Exchangers

Package Items

SPEC SUBSECTION ITEM TYPE

23 57 00 20 57 00 Shop Drawings



Submittal #85623

APPROVAL REQUIRED

Project 22104386-MECH-1- Brampton Victoria Park Arena

Leader Nevin Wong

Job Site Brampton Victoria Park Arena

Submission Date2025-02-19Sold ToCONSULT MECHSubmitted ByChukwuebuka Eleagu

Contacts

Role	Customer	Our Rep
Mechanical Contractor	Con-Sult Mechanical Inc.*	Nevin Wong
General Contractor	Rafat General Contracing Inc	
Mechanical Contractor	Con-Sult Mechanical Inc.*	Nevin Wong
Mechanical Contractor	Con-Sult Mechanical Inc.*	Nevin Wong
Designer	WSP MMM Group	Alex Forsea

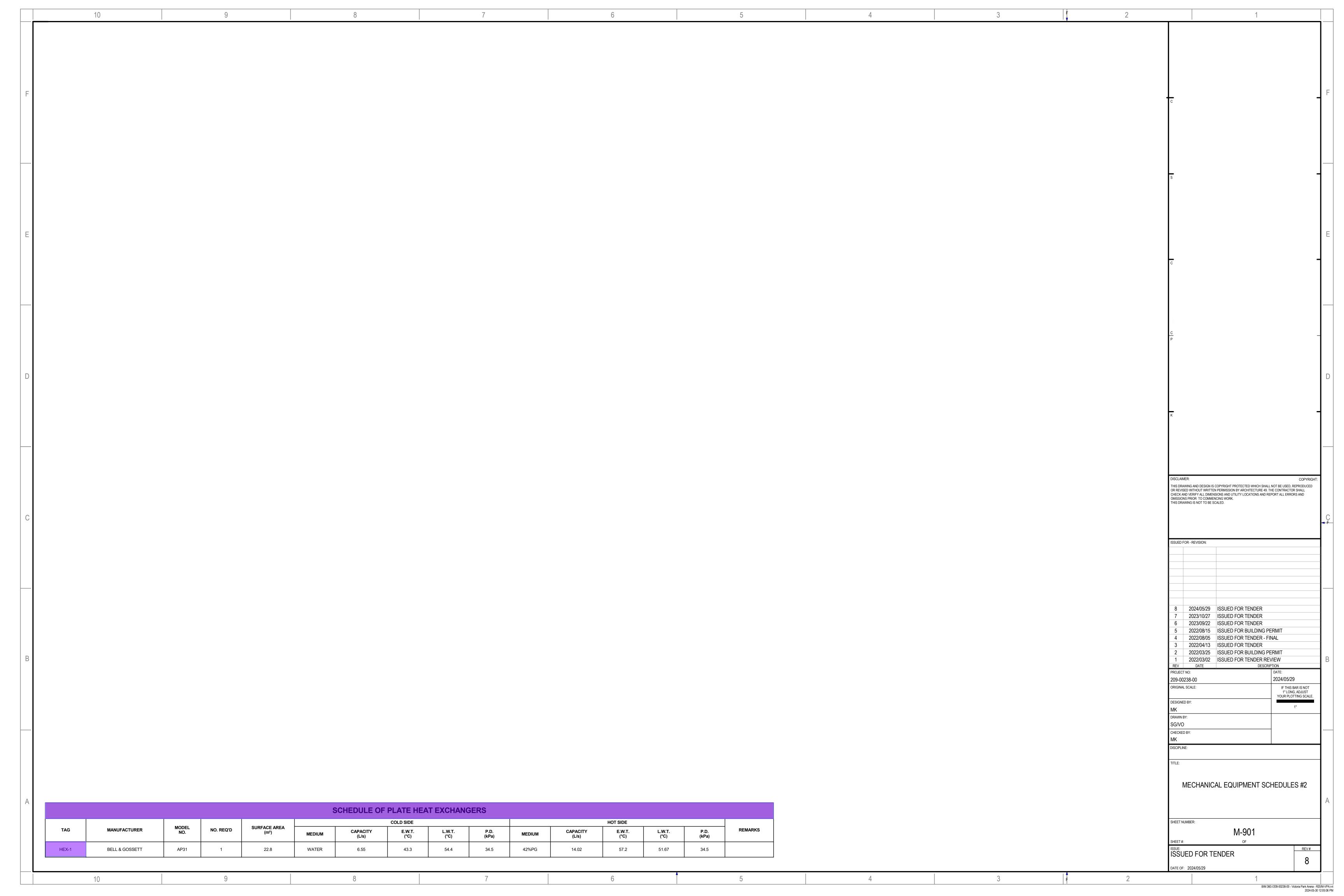
Deliverables

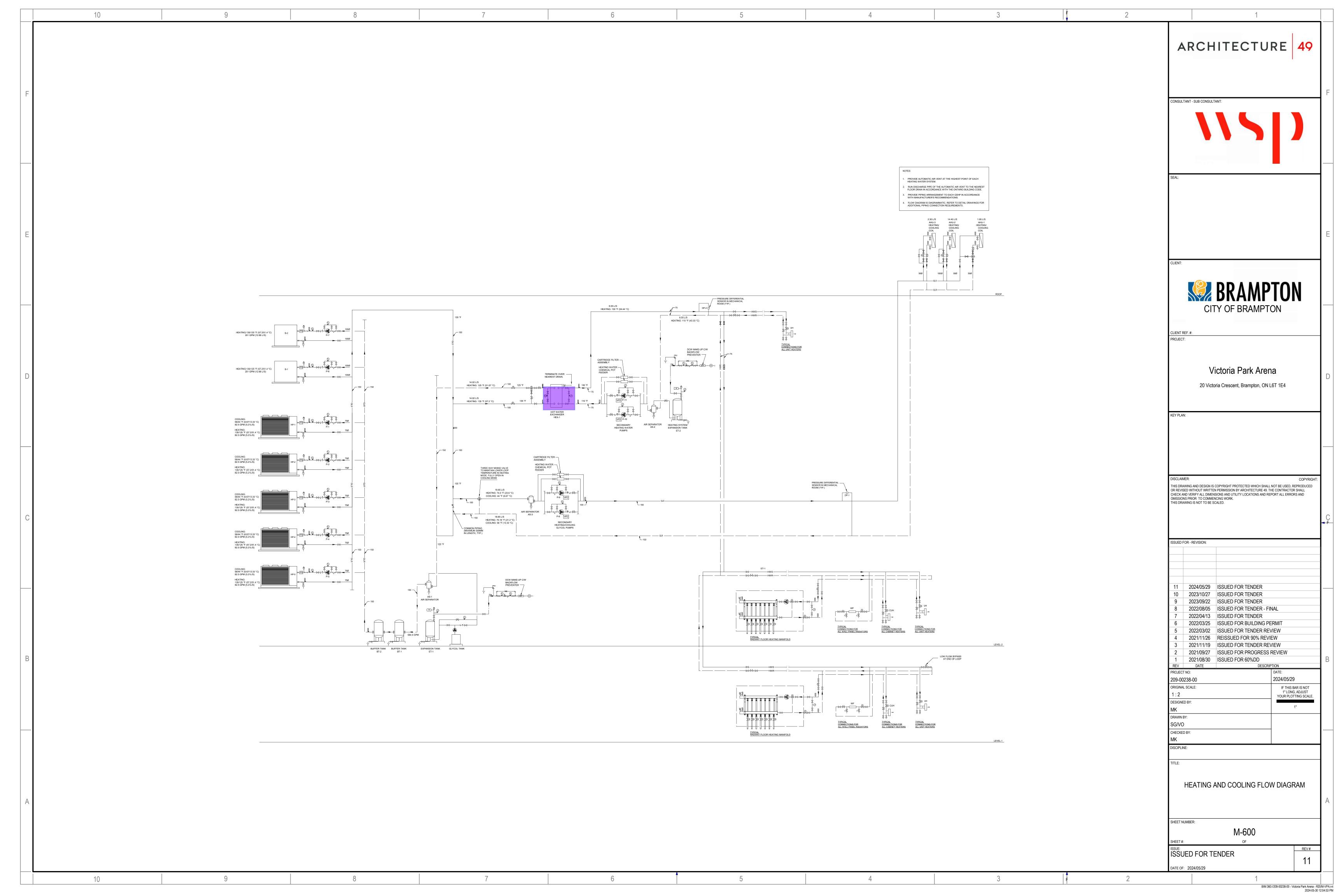
Track #	289007	
Tag	HEX-1	
Description	GPX-P Plate & Frame Heat Exch	
Quantity	1	
Production Lead Time		
Revision #	0	

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.

roval Stamps			







Bell & Gossett GPX™

Gasketed Plate Heat Exchanger Specification Sheet

175 Standard Parkway Cheektowaga, New York 14227 1-800-447-7700 www.xylem.com/bellgossett

Thursday, November 18, 2021 Customer Date

Inquiry Number 2021-7-21-17:08 Item Number

AP31 1 **Performance of One Unit: Units Connected in Parallel:**

Fluid Name Propylene Glycol 40.0% Water 222.14 GPM(14.05l/s) 103.52 GPM(6.53l/s) **Total Flow** 135.00 °F (57.22°C) 110.00 °F(43.33°C) Inlet Temperature 130.00 °F(54.44°C) 125.00 °F (51.67°C) **Outlet Temperature** Operating Pressure 0.00 PSIG 0.00 PSIG

Pressure Drop, Allow./Calc 5.00/4.96 PSIG(34.5 kPa) 5.00/1.03 PSIG (34.5 kPa)

63.07 lb/ft3 61.66 lb/ft3 Density Viscosity 1.46 cp 0.58 cp Specific Heat 0.91 Btu/lbm,°F 1.00 Btu/lbm,°F Thermal Conductivity 0.24 Btu/ft,h,°F 0.37 Btu/ft,h,°F Specified Fouling Factor 0.00000 hr,ft2,°F/Btu 0.00000 hr,ft2,°F/Btu

1,025,000.00 Btu/h (300.39 kW) Total Heat Exchanged

LMTD 9.10 °F

Overall Heat Transfer Coefficient, Clean/Dirty 537.14/537.14 Btu/hr,ft2,°F Overall Heat Transfer Coefficient, Service 459.23 Btu/hr,ft2,°F

Effective Surface Area 245.09 ft2 (22.77 m2)

Excess Surface 16.96 %

Construction

Number of Passes * Channels 1*35 1*35

Total Number of Plates 71 150/195(PSIG)(1034 kPa) 150/195(PSIG)(1034 kPa) Pressure, Design/Test

32/284(°F) Design Temperature, min/max 32/284(°F)

Internal Volume 1.42(ft3) 1.42(ft3) Inlet Connection(Location) F1, steel female npt F3, steel female npt 2.50 " 2.50 "

Outlet Connection(Location) F4, steel female npt F2, steel female npt 2.50 " 2.50 "

304 Plate Material Plate Thickness 0.40 mm Plate Mix ΤK NITRII F HT Gasket Material

Empty/Flooded Weight 828 / 1,005 lb Frame Size / Max. Frame Capacity 19.69 inch / 84 plates

ASME Sect VIII Div 1 w/U stamp. Approvals

> This heat exchanger is certified by the AHRI Liquid to Liquid heat exchangers certification program based on AHRI Standard 400. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third party verified. Certified units may be found in the AHRI directory at www.ahridirectory.org.

Customer to verify fluid/material compatibility. Note:

Notes

Performance evaluation is dependent on customers' ability to provide sufficiently accurate measurements.

