RAFAT

8850 GEORGE BOLTON PARKWAY, CALEDON, ONTARIO L7E 2Y4

RFI Transmittal No:	143

Project Name:	Renovation of Chris Gibson Recreation Centre Drive	Project No.	T2023-125
		DATE:	25-Nov-2024

RFI No:	143

Title:	WATER METER SPECS.

To:	Patrick Johnson - Contract Administrator (DSA) Vincent Goetz - Senior Assoicate (DSA)

Requested by	Consult	Sketch Attached	N	Total # Pages	4

Description of RFI	Please see attached RFI
Response Required By	30 Nov 2024

Date Responded	Nov. 26, 2024	Sketch Attached		Total # Pages	

Consultants Response	Section 22 11 00 refers to the city water meter at the central incoming service. BAS monitoring of water meters as per section 25 05 01 is not to be done at the central incoming city water meter, but rather is to be done for all other water meters, as indicated with clouding on the attached sketch.

Approved/Respone d by:	I. Littley

DSA: see Introba response noted above.

Patrick Johnson / DSA
November 27, 2024

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

Request For Information 23-214-009

Nov 5, 2024

Project Name
CHRIS GIBSON REC CENTRE

Project Address
125 McLaughlin Rd N, Brampton, ON, L6X 1N9

To

Name
Ashish Singla
Company
RAFAT GENERAL CONTRACTOR INC.
Email
asingla@corebuildconstruction.com
Address
8850 GEORGE BOLTON PKWY BOLTON, ON L7E 2Y4

From

Name
MOHAMMED LODHI
Company
Consult Mechanical Inc.
Email
mohammed.l@consultmechanical.com
Address
54 Audia Court, Unit 2 Concord, ON L4K 3N5

Title	SCHEDULE IMPACT	COST IMPACT
CHRIS GIBSON RC- WATER METER SPECS.	No	Probable

RETURN BY

Nov 12, 2024

Information Requested

Please note that the reviewed SD for water meter as per mechanical specs is not compatible with what is mentioned in BAS specs. Please advise if the Water Meter is to be upgraded as per BAS specs. as the water meter which was carried at tender was as per mechanical specs. See attached relevant sections from specifications for reference, thanks.

2.22 Water Meter

.1 Arrange and pay for supply and installation of water meter.

.2 Water meter shall be supplied by Contractor and shall be to City Standards.

.3 Hermetically sealed direct reading centre sweep register, one-piece cast bronze main case, rotating disc measuring chamber with flow control adjustment, magnetically driven, rated for 150 psi (1,034 kPa) service, reading in ft^3 (m^3) and flanged ends conforming to AWWA C700, AWWA C701, or AWWA C702. Acceptable Products: Neptune Trident 8, Rockwell, Hersey.

.4 Provide self-generating remote meter reader to suit municipal requirements. Provide conduit from water meter location to remote reader location.

3. Execution

3.1 Supply Piping (General)

.1 Upon completion, flush water piping systems with water before installing fixtures to remove any foreign material in piping. Clean plumbing fixtures and equipment and leave in good operating condition.

.2 Provide connections as required, including shutoff valves with unions or flanges to equipment installed by other trades.

.3 Ream pipes and tubes. Clean scale and dirt, inside and outside, before assembly. Remove foreign material from piping.

.4 Clamp cast-iron water pressure pipe at fittings with ¾" (19 mm) 316 stainless steel threaded rods and fasteners complete with required pipe retainer glands, adapters and harnesses to secure pipe sections and fittings together.

.5 Reduce horizontal piping with eccentric reducer fittings installed to provide drainage and eliminate air pockets.

.6 Wherever dissimilar metals are joined or supported, provide non-conducting type connections or hangers to prevent galvanic corrosion. Brass adapters and valves are acceptable for pipe connections.

.7 Install piping to allow for expansion and contraction without stressing pipe or connected equipment.

.8 Provide clearance for insulation and access to valves, air vents, drains and unions.

.9 For Victaulic grooved joints, pipe ends shall be clean and free from indentations, projections and roll marks in the area from pipe end to groove for proper gasket seating. The gasket style and elastomeric material (grade) shall be verified as suitable for the intended service as specified.

.1 Victaulic factory trained Representative shall provide on-site training for Contractor's field personnel in the use of grooving tools and installation of grooved joint products. Representative shall periodically visit the jobsite and review Contractor is following best recommended practices in grooved product installation. (Distributor's Representative is not considered qualified to conduct the training or jobsite visit(s).)

.10 When joining grooved ductile to grooved copper a di-electric waterway is necessary. The groove by groove Victaulic style #647 GG di-electric waterway shall be used.

3.2 Concealed Supply Piping

.1 Install concealed water supply piping to plumbing fixtures, trim items, equipment, hose bibbs, etc. using cast brass 90° drop ear elbow or drop ear tees, as the piping design dictates.

.2 Provide blocking within the concealed space and the elbows and tees shall be secured to the blocking using brass screws to provide a rigid installation.

.3 Do not install pipe in any part of wall where temperature is less than 9°F (5.5°C) under winter design conditions.

.4 Under no circumstances shall domestic cold water piping be routed in topping or floor slab.

.5 Energy meters shall be calibrated and commissioned in accordance with the Government of Canada Weights and Measures Requirements, and comply with EU Standard EN1434.

.6 Energy Dashboard

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.1 Provide a minim 44" (1,100 mm) flat screen monitor complete with energy dashboard graphics software, energy reporting software and organized trendlogging of electricity, water, gas, in breakdowns as described by the Energy/Flow/House Metering Schedule above. Provide a minimum of three (3) years of database storage capability based on a maximum of five (5) minute sampling rate of all points and metering.

.2 Compare generation and consumption for electrical, gas and water resources.

.3 Instantly translate energy and water use into dollars and CO_2 emissions and savings.

.4 Showcase building green features alongside real-time resource use date.

.5 Show real-time weather conditions.

.6 Display introductory or explanatory text and Client/Owner logo welcoming visitors to the dashboard.

.7 Display photographs pertaining to the building featured in the dashboard.

.8 Automatically and randomly transition between photographs at specified intervals, ensure that the dashboard is constantly changing during every visit.

.9 Compare current consumption with past consumption on the same screen.

.10 Display 50 automatically rotating, randomly displayed green "tips" (with an input from the Owner). Green "tips" will be short, to-the-point messages accompanied by a large image relevant to the feature "tip" Green "tips" will focus primarily on the building related resource use, but will also include references to land, transpiration, and waste related environmental concerns.

.11 Showcase building and building's green features via the dashboard.

.12 Enable users to selected from intuitive thumbnail-based menu screen, or display features by automatic rotation.

.13 Showcase the HVAC systems, lighting and day-lighting controls, electrical district heating and water consumption, landscaping and building envelope design.

2.12 Carbon Dioxide Monitoring and Detection System for Indoor Air Quality (ISO-9002 Certified Sensors)

.1 Provide UL and CSA labelled Vulcan VA-201T series Model 90DM3 infrared cell type carbon dioxide transmitter with LCD Display and connected to DDC system. Provide one sensor per VAV control box as indicated on the drawings or two sensors shall be installed for each air handling unit zone floor Allow for connection of sensor to DDC system architecture and provide 24 volt transformer and low voltage wiring from nearest VAV or fan coil unit electrical junction box.

.2 The remote sensor shall receive 24 volt power and send 4-20 mA signal corresponding to 0-2000 ppm CO_2 to the DDC system.

.3 Sensor shall be warrantied for five years.

.4 Install system in complete accord with Manufacturer's recommendations. Manufacturer's agent shall provide complete commissioning of sensors.

3. FACILITIES MANAGEMENT SYSTEM (DDC SYSTEM)

3.1 General Description

.1 The facilities management system shall be integrated into the existing distributed control network of independent standalone digital controllers (DDC) interconnected in a communicating network to provide facility wide access and sharing of information. If the existing system does not meet any of the requirements in this section, it shall be upgraded to comply with all contract documents.

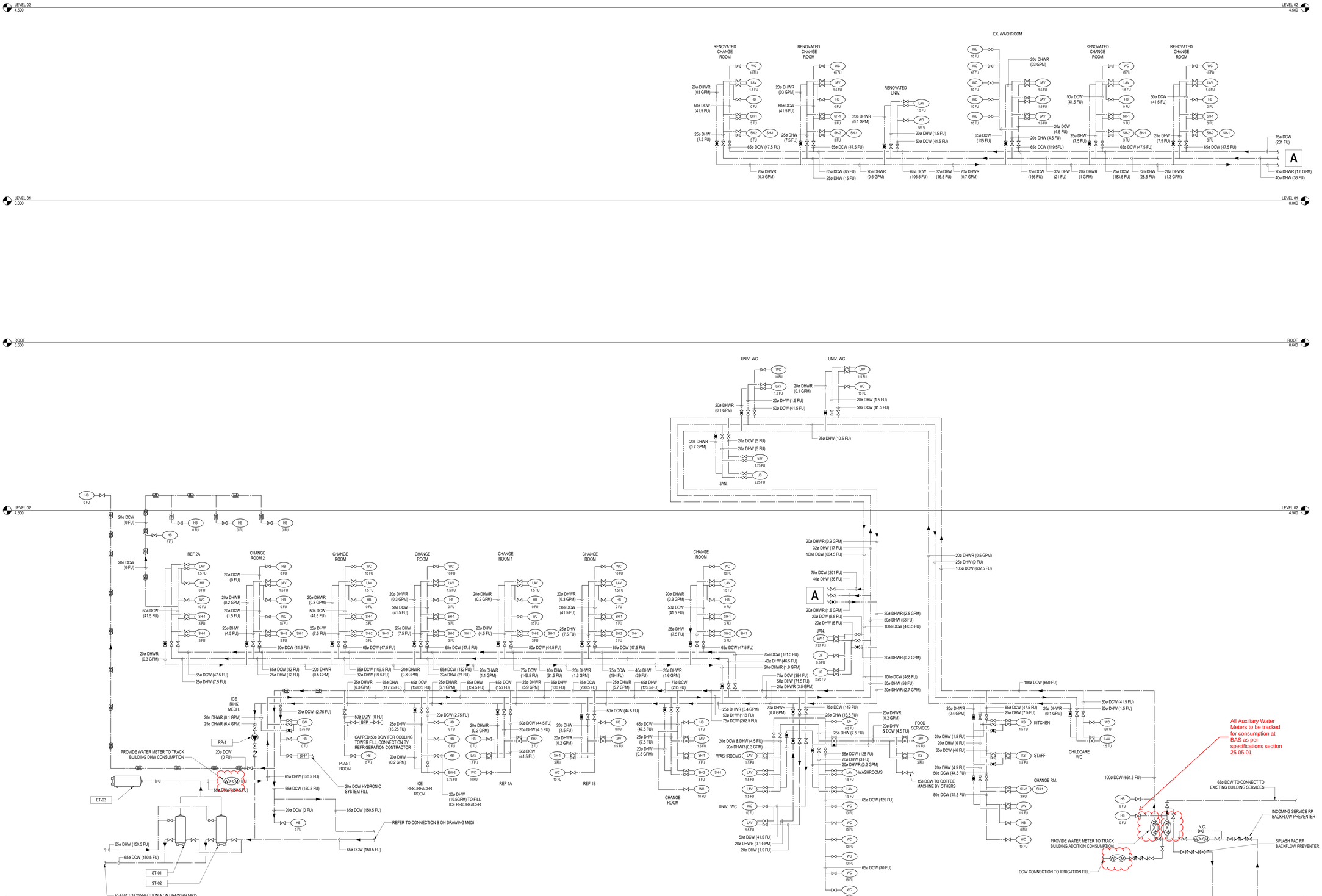
.2 The distributed network shall be a modular design. Network expansion shall be accomplished by adding standalone control modules to the network.

.3 A local area network (LAN) shall be provided for high-speed data transmission.

diamond schmitt

ISSUED

No.	Date	Description
1	2020-12-14	ISSUED FOR 60% DD
2	2021-03-26	ISSUED FOR 100% DD
3	2021-06-17	ISSUED FOR 50% CD REVIEW
4	2021-09-24	ISSUED FOR 90% CD
5	2021-11-01	ISSUED FOR REVIEW
6	2021-11-10	ISSUED FOR 100% CD
7	2022-02-18	ISSUED FOR TENDER
8	2022-06-03	ISSUED FOR BUILDING PERMIT
9	2023-03-31	ISSUED FOR TENDER
10	2023-09-08	ISSUED FOR CONSTRUCTION



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Project North True North

Chris Gibson Recreation Centre Renovation and Addition

125 McLaughlin Road North
Brampton, ON
L6X 1Y7

DOMESTIC WATER SCHEMATIC

Scale: 1 : 1
Project No: 210305
Date: 2022-04-06

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