



DRAWING LIST	
Sheet Number	Sheet Name
M0	SITE AND GENERAL INFORMATION
M1	MECHANICAL PLAN - LOWER ELEVATION
M2	MECHANICAL PLAN - UPPER ELEVATION
M3	MECHANICAL SECTIONS
M4	MECHANICAL SECTIONS
M5	MECHANICAL SECTIONS
M6	3D VIEWS
M7	3D VIEWS
M8	MECHANICAL DETAILS
M9	SCHEDULES AND SCHEMATICS
E1	ELECTRICAL PLAN

GENERAL NOTES:

NOTE 1: WORK IN THIS PROJECT IS TYPICAL FOR LIVING UNITS 1 THROUGH 5.

NOTE 2: DRAWINGS IN THIS SET REPRESENT LIVING UNIT #1. ROOM LAYOUTS ARE GENERALLY THE SAME BETWEEN BUILDINGS BUT SLIGHT VARIATIONS BETWEEN SPACES MAY EXIST. CONFIRM ALL DIMENSIONS AND ARRANGEMENTS ON SITE BEFORE FABRICATION AND INSTALLATION.

NOTE 3: VISUAL IMAGERY WITH POINT CLOUD INFORMATION OF LIVING UNIT #1 MECHANICAL ROOM EXISTING CONDITIONS CAN BE VIEWED ONLINE AT: WWW.SITEBIM.CA AND SELECTING 'PROJECT DOWNLOAD' IN THE TOP RIGHT HAND CORNER. LOG IN WITH:

USERNAME: "HemisphereE13059"
PASSWORD: "H123456"
SELECT PROJECT: "SBL005C"

FOR ADDITIONAL ASSISTANCE WITH ONLINE IMAGRY CONTACT SITE-BIM @ 780-489-8812

NOTE: FOR SECURITY REASONS, PASSWORD MAY BE SUBJECT TO CHANGE DURING THE COURSE OF THE CONTRACT.

MECHANICAL LEGEND	
PIPE DOWN FROM LEVEL ABOVE / DOWN TO LEVEL BELOW	
PIPE UP FROM LEVEL BELOW / UP TO LEVEL ABOVE	
FLOW DIRECTION	
ELBOW RISING	
TOP TAKEOFF / BOTTOM TAKEOFF	
SIDE TEE	
ELBOW DROPPING	
SHUTOFF VALVE	
SHUTOFF VALVE VERTICAL MOUNT	
FLOW BALANCING VALVE	
CHECK VALVE	
PLUG VALVE	
2-WAY CONTROL VALVE	
3-WAY CONTROL VALVE	
MECHANICAL PRESSURE	
REDUCING VALVE	
PIPE REDUCER	
RELIEF VALVE	
UNION OR FLANGE	
FLEXIBLE CONNECTION	
AUTOMATIC AIR VENT	
STRAINER	
CAP OR PLUG	
PUMP	
THERMOMETER/THERMOMETER & PRESSURE WELL	
PRESSURE GAUGE/PRESSURE TAP	
FLOW METER	
FLOW SWITCH	
HEATING WATER SUPPLY	—HWS—
HEATING WATER RETURN	—HWR—
SANITARY DRAIN	—SAN—
STORM DRAIN	—STW—
VENT PIPE	—V—
DOMESTIC COLD WATER	—DCW—
GAS-LOW PRESSURE	—G—
HOSE BIBB	—HB—
FLOOR DRAIN (PLAN) / FLOOR DRAIN (SCHEMATIC)	
REDUCED PRESSURE BACKFLOW ASSEMBLY	
EQUIPMENT NUMBER	
TIE POINT NUMBER	
SCHEDULE FOR NATURAL GAS UTILITY (TYPICAL OF 5 UNITS)	
EQUIPMENT	INPUT
B-1	322 kW
B-2	322 kW
DWH-1 (EXIST)	108 kW
DWH-2 (EXIST)	108 kW
TOTAL	860 kW

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS

ENGINEERING
HEMISPHERE
CONSULTING ENGINEERS
* EDMONTON * CALGARY *
Project number: E13059

PROFESSIONAL ENGINEER
ALBERTA
19-Dec-2014

PERMIT TO PRACTICE
HEMISPHERE ENGINEERING INC.
Signature: *[Signature]*
Date: *Dec 19 2014*
PERMIT NUMBER: P 4520
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

DO NOT SCALE DRAWINGS		
0	Issued for Tender	19-Dec-2014
0	Issued for 90% Review	18-Oct-2013
0	Issued for 50% Review	15-Jul-2013
Revision/Revision	Description/Description	Date/Date

Client/client

Correctional Service Canada
Service Correctionnel Canada
Bowden Institution
Hwy 2, Innisfail, AB T4G 1V1

Project title/Titre du projet
Bowden Institution
Hwy 2, Innisfail, AB T4G 1V1
Bowden Institution
Hot Water Systems Upgrade

Approved by/Approve par
Approver
Designed by/Concept par
Designer
Drawn by/Dessine par
Author
PWGSC Project Manager/Administrateur de Projets TPSGC
STEVE PHYPERS
PWGSC, Architectural and Engineering Resources Manager/
Client/client
Drawing title/Titre du dessin
SITE AND GENERAL INFORMATION

Project No./No. du projet R.023238.001	Sheet/ M0 OF 8	Revision no./ 0
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1
SITE PLAN
1: 1000

0 10 20 40 60 80 100m
1:1000

PWGSC - A1 - 841X594

0 10 20 30 40 50 60 70 80 90 100mm