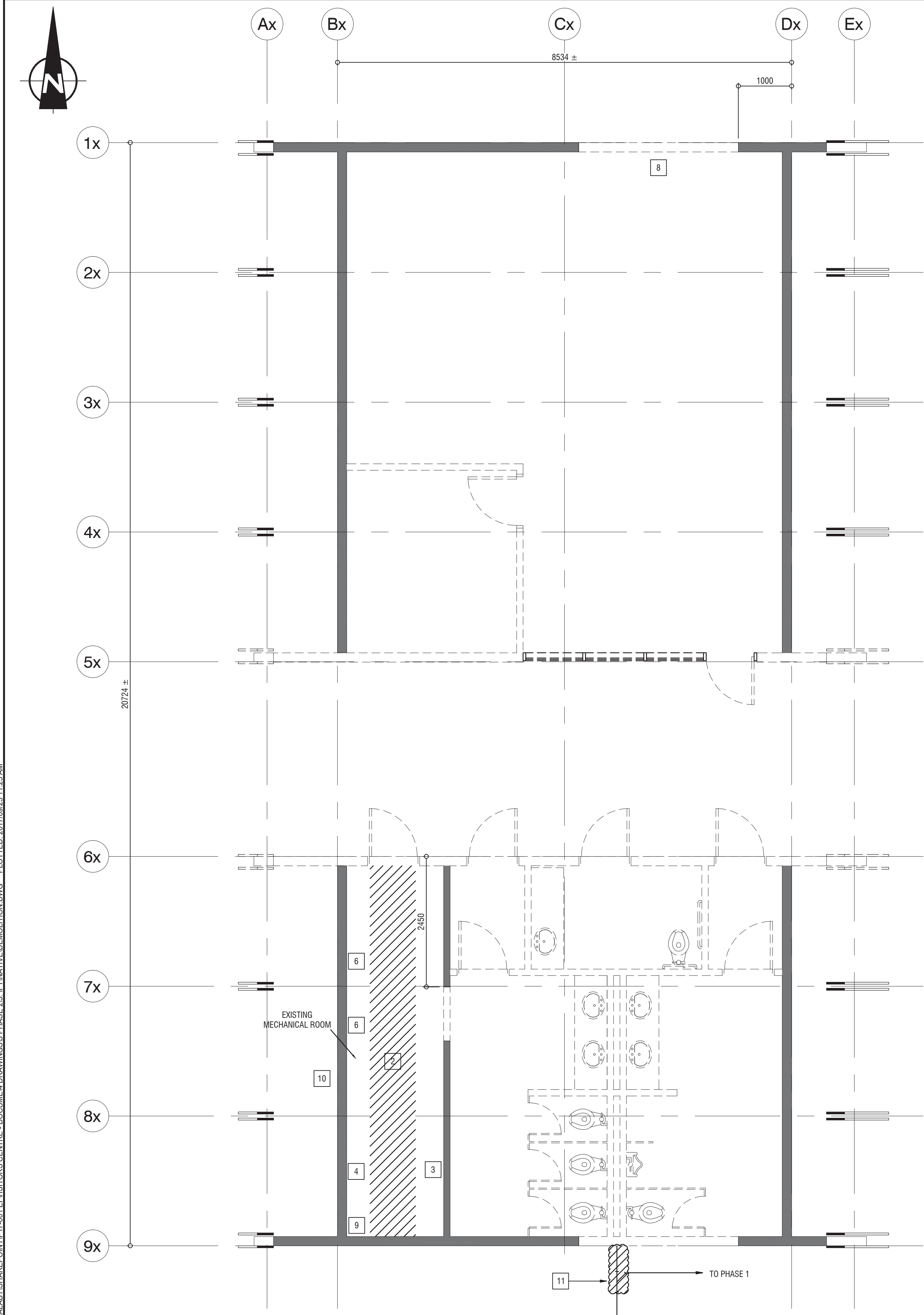


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1
M-0
DEMOLITION PLAN
SCALE: 1 : 50

DEMOLITION NOTES

- 1 REMOVE EXISTING ABOVE GRADE PLUMBING. PATCH AND REPAIR CONCRETE SLAB FOR NEW FLOOR FINISH.
- 2 HATCHED AREA IN MECHANICAL ROOM INDICATES GENERAL AREA WHERE A PORTION OF EXISTING FLOOR SLAB TO BE REMOVED TO ALLOW FOR INSTALLATION OF NEW SANITARY PIPING. REPLACE USING ACCEPTABLE METHODS TO RESTORE SLAB TO ORIGINAL CAPACITY. CONTRACTOR TO SUBMIT PROCEDURE FOR REMOVAL AND REPLACEMENT FOR APPROVAL.
- 3 REMOVE EXISTING PRESSURE TANK.
- 4 REMOVE EXISTING HOT WATER HEATER AND ASSOCIATED PLUMBING.
- 5 ABANDON EXISTING SUB SLAB PIPING. PATCH AND REPAIR CONCRETE SLAB.
- 6 REMOVE TWO (2) EXISTING FURNACES AND ALL ABOVE GRADE DUCTING.
- 7 ABANDON SUB SLAB DUCTING. PATCH AND REPAIR CONCRETE SLAB.
- 8 REMOVE EXISTING WALL EXHAUST FAN IN RETAIL AREA.
- 9 REMOVE EXISTING WASHROOM EXHAUST FAN IN MECHANICAL ROOM.
- 10 REMOVE EXISTING MECHANICAL ROOM LOUVERS. PATCH AND REPAIR WALL.
- 11 REMOVE PORTION OF EXISTING SEWER PIPING AND FITTING AS SHOWN.
- 12 REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.


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Rev.	Date	Description	Drawn Dessiné	Designed Conçu Approved Approuvé

<div><div>A</div><div>B</div><div>C</div></div>	<div>detail number numéro de detail</div> <div>source drawing no. de dessin no.</div> <div>detail on drawing no. detail sur dessin no.</div>	<div><div>A</div><div>B</div><div>C</div></div>
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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
	

Client
<div> Parks Canada Agency Western and Northern Region</div> <div>L'Agence Parcs Canada Ouest et Nord Région</div>

Consultant's Name Nom de l'expert-conseil
<div> McElhanney McElhanney Consulting Services Ltd.</div> <div> EPIX Engineering</div>
207-215 MCLEOD AVE SPRUCE GROVE, AB T7X0G2 PH 587.286.7316

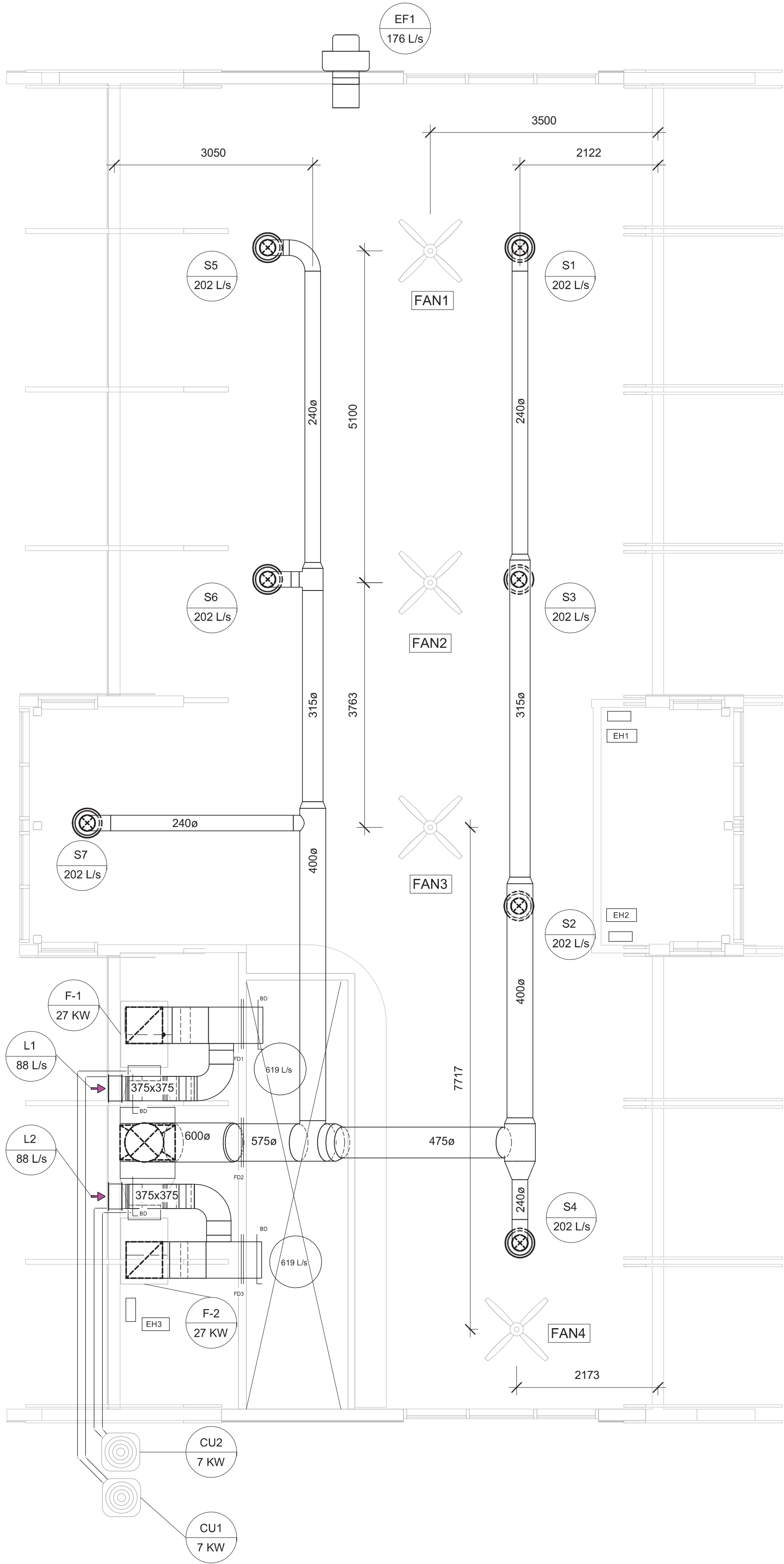
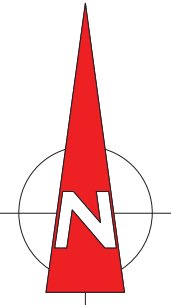
Project Title Titre du projet
ELK ISLAND VISITORS CENTRE REHABILITATION
FORT SASKATCHEWAN ELK ISLAND NATIONAL PARK, AB

Drawing Title Titre du dessin
MECHANICAL DEMOLITION PLAN

Surveyed by / Arpenté par	Drawn by / Dessiné par	Date
	M.SHALABY	2017.09.25
Designed by / Conçu par	Reviewed by / Révisé par	Scale / Echelle
S.CORKE	R.BACHYNSKI	AS NOTED

Parks Canada Project Manager / Administrateur de Projets Parcs Canada MARK MCINTYRE		
Client Acceptance / Acceptation du client	Approved by / Approuvé par	
Parks Canada Responsible Officer / Agent Responsable Parcs Canada	Parks Canada Project Manager / Administrateur de Projets Parcs Canada	

Project No. / No. du projet	Asset No. / No. du-bien	Sheet No. No. de la feuille
2131-00299		M0
Drawing Reference No. / No. de référence du dessin		



- NOTES:
1. INSULATE FRESH AIR AND RETURN AIR DUCTING REFER TO EWP-002 FOR SPECIFICATIONS
 2. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS
 3. DUCTS TO BE PAINTED POST INSTALLATION
 4. INSTALL ALL NATURAL GAS PIPING TO B149 NATURAL GAS PIPING CODE
 5. CEILING FANS TO BE CONTROLLED AS OUTLINED IN EWP-002 SECTION 23 34 00
 6. SUPPLY DIFFUSERS TO INCLUDE BALANCING DAMPERS
 7. FURNACE FANS TO BE INTERLOCKED WITH EXHAUST FAN EF1 PER EWP-002 SECTION 23 54 16
 8. INSTALL TURNING VANES IN ALL RECTANGULAR ELBOWS AND TEES
 9. REFER TO EWP-002 LATEST REVISION FOR DUCT AND DIFFUSER ELEVATIONS
 10. REFER TO EWP-002 LATEST REVISION FOR ADDITIONAL REQUIREMENTS

AIR COOLED CONDENSING UNIT SCHEDULE							
TAG	MANUFACTURER	MODEL	COOLING CAPACITY (KW)	ELECTRICAL DATA			
				WATTS	VOLT/PH	MIN CIR AMPS	MAX FUSE SIZE AMPS
CU-1 TO CU-2	TRANE	4TTR4018L	7.0	3KW	230/1PH	12	20

ELECTRIC UNIT HEATER SCHEDULE						
TAG	MANUFACTUER	MODEL	LOCATION	ELECTRICAL DATA		
				WATTS	VOLT/ PHASE	AMPS
EH-1 TO EH-2	TRANE	021B2AT	VESTABULE	2000	240/1PH	8.36
EH-3	TRANE	021B2AT	MECH. ROOM	2000	240/1PH	8.36

DIFFUSER/GRILLE SCHEDULE						
TAG	MANUFACTURER	MODEL	SIZE (mm)	AIR FLOW (L/S)	NC LEVES	DESCRIPTION
S-1 TO S-7	PRICE	RCDE-VCR9-B12	254	202	23	SUPPLY DIFFUSERS C/W DAMPER
L-1 TO L-2	NAILOR	1706D	460X300	88	-	INTAKE LOVERS C/W BIRD AND BUG SCREENS
FD-1 AND FD-3	GREENHECK	DFD-110 TYPE A	559X559	620	-	MULTI. SECTION RETURN DUCT FIRE DAMPER
FD-2	GREENHECK	DFDR-510	600	1416	-	SUPPLY DUCT FIRE DAMPER

FURNACE SCHEDULE								
TAG	MANUFACTURER	MODEL	AIR FLOW (L/S)	AMPS	VOLTAGE	GAS TYPE	S.P. (Pa)	HEAT OUTPUT (KW)
F-1 TO F-2	TRANE	TUH1D100	708	12.9	115	NG	199	27
			SERVING					
			COMMON RETAIL AREA					

FAN SCHEDULE							
TAG	MANUFACTURER	MODEL	AMPS	VOLTAGE	EXHAUST AIR (L/S)	EXTERNAL STATIC (Pa)	SERVING/ COMMENTS
EF1	GREENHECK	CW-085-E	3.1	230	176	6.22	COMMON RETAIL AREA
FAN1 TO FAN4	CANARM	CP36	0.7	120	-	-	C/W 36" DOWNROD

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Rev.	Date	Description	Drawn Dessiné	Designed Conçu Approved Approuvé

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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur

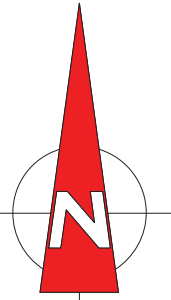
Client	Parks Canada Agency Western and Northern Region L'Agence Parcs Canada Ouest et Nord Région
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Consultant's Name Nom de l'expert-conseil	McElhanney McElhanney Consulting Services Ltd.	EPIX Engineering 207-215 MCLEOD AVE. SPRUCE GROVE, AB T7X0G2 PH 587.286.7316
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Project Title Titre du projet	ELK ISLAND VISITORS CENTRE REHABILITATION
	FORT SASKATCHEWAN ELK ISLAND NATIONAL PARK, AB

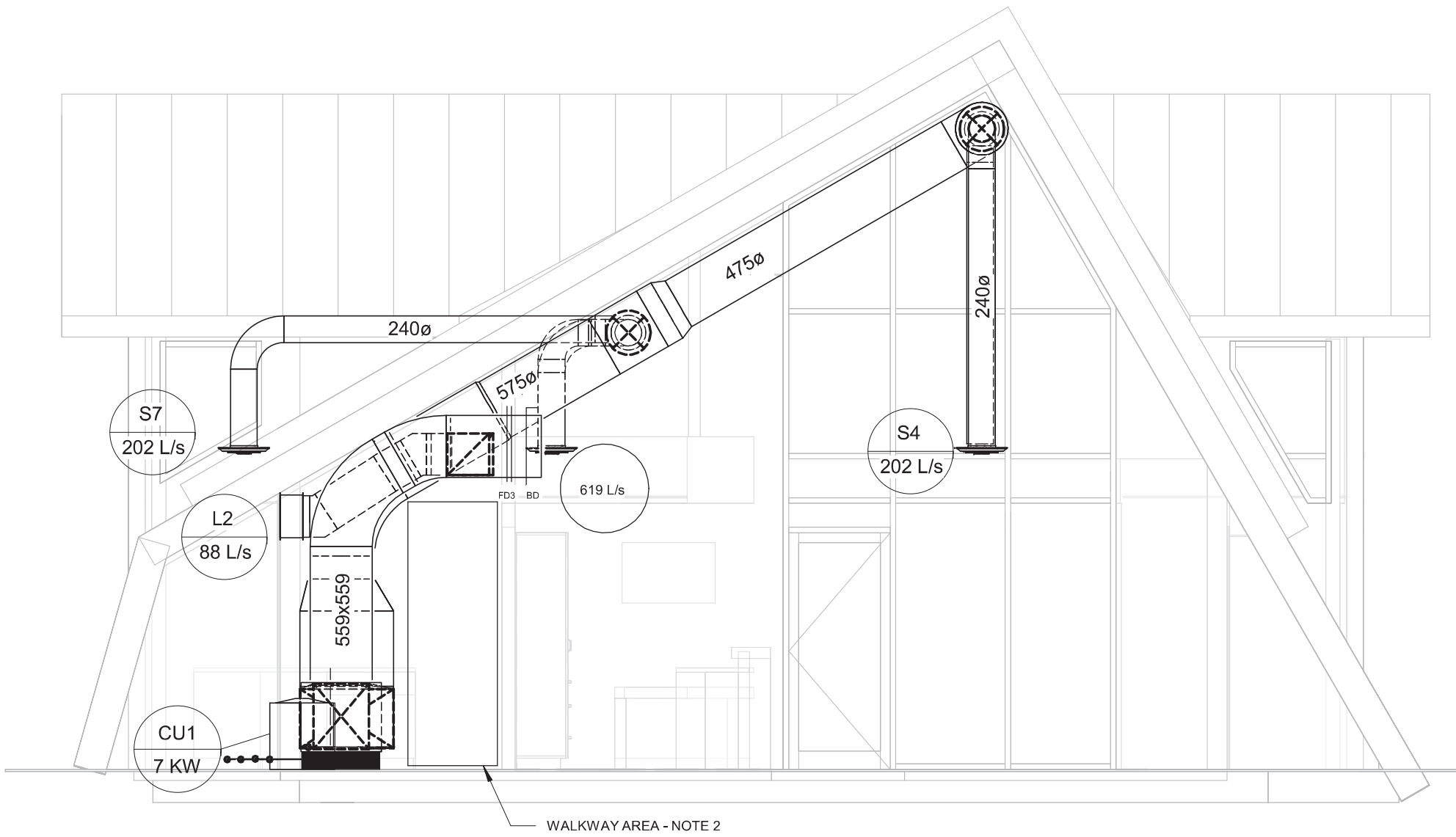
Drawing Title Titre du dessin	HVAC LAYOUT
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Surveyed by / Arpenté par	Drawn by / Dessiné par M.SHALABY	Date 2017.09.26
Designed by / Conçu par S.CORKE	Reviewed by / Révisé par R.BACHYNSKI	Scale / Échelle AS NOTED
Parks Canada Project Manager / Administrateur de Projets Parcs Canada MARK MCINTYRE		
Client Acceptance / Acceptation du client	Approved by / Approuvé par	
Parks Canada Responsible Officer / Agent Responsable Parcs Canada	Parks Canada Project Manager / Administrateur de Projets Parcs Canada	
Project No. / No. du projet 2131-00299	Asset No. / No. du-bien	Sheet No. No. de la feuille M1
Drawing Reference No. / No. de référence du dessin		

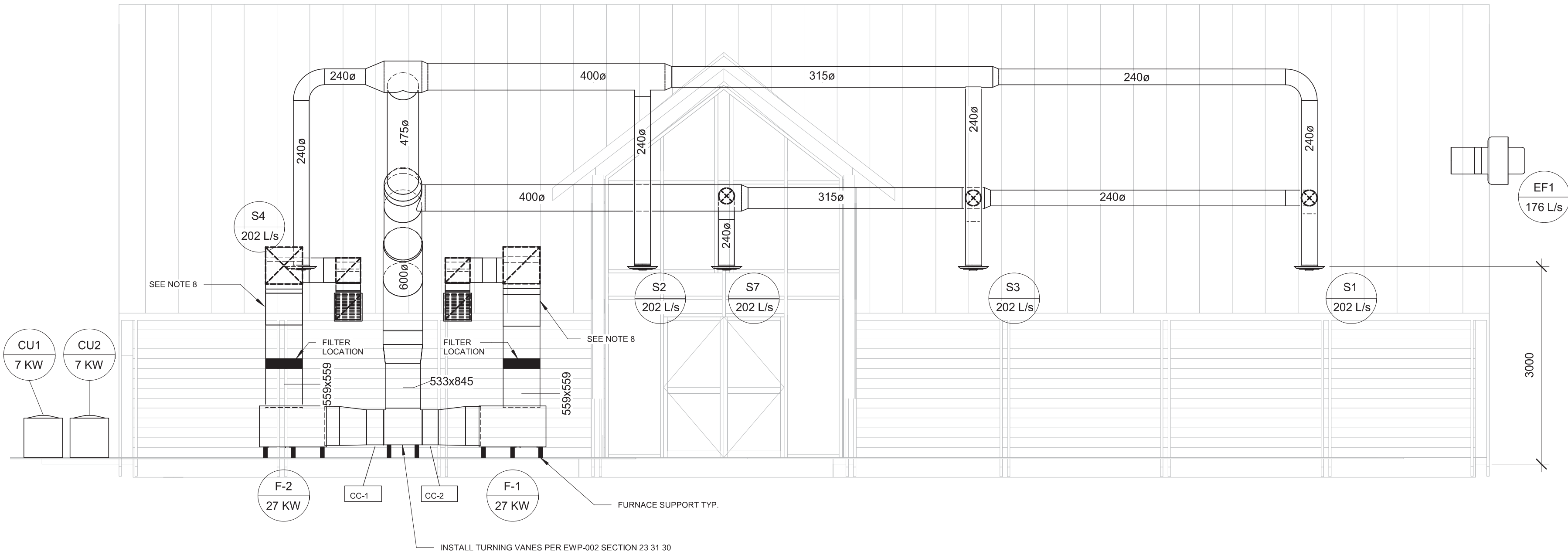


NOTES:
1. REFER TO DRAWING M-1 FOR NOTES
2. MIN. VERTICAL CLEARANCE IN WALKWAY AREA 2000mm

COOLING COIL SCHEDULE							
TAG	MANUFACTURER	MODEL	SIZE (mm) HxWxD	AIR FLOW (L/S)	ENT. AIR TEMP (C)	OUT. AIR TEMP (C)	DESCRIPTION
CC-1 TO CC-2	TRANE	4TXFH024CZ3HHA	584 x 343 x 826	708	26	18	SPLIT SYSTEM COOLING COILS CASDED HORIZONTAL



1
M-2
South Elevation
1 : 50

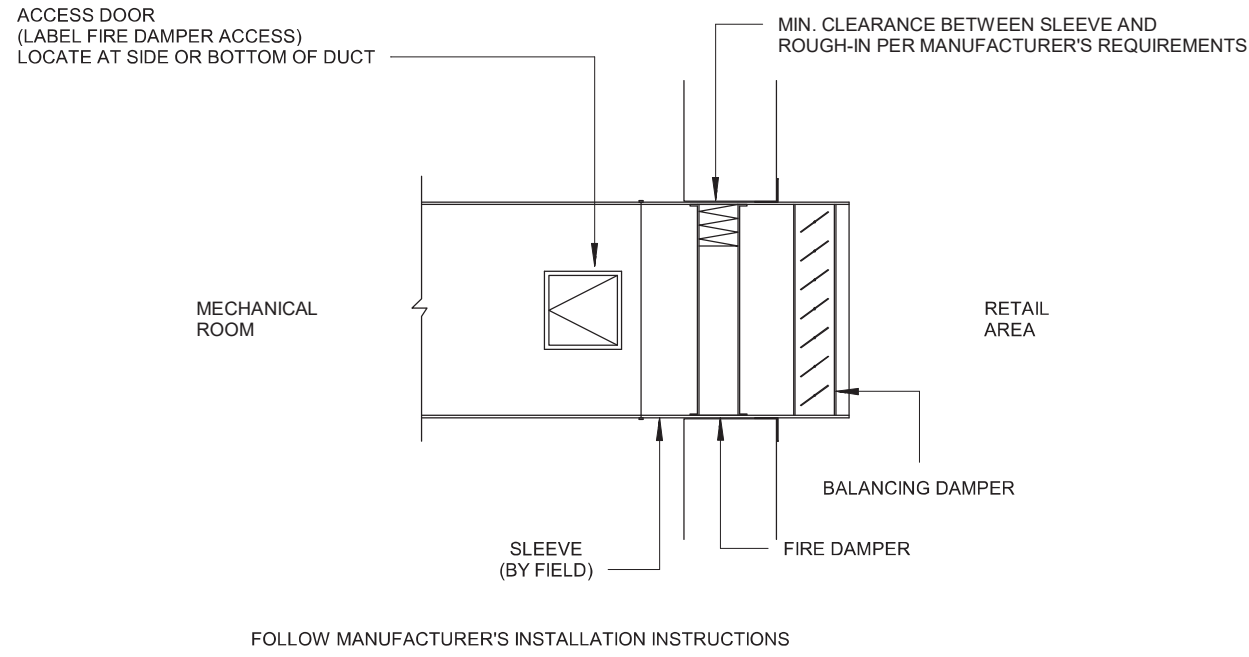


2
M-2
East Elevation
1 : 50

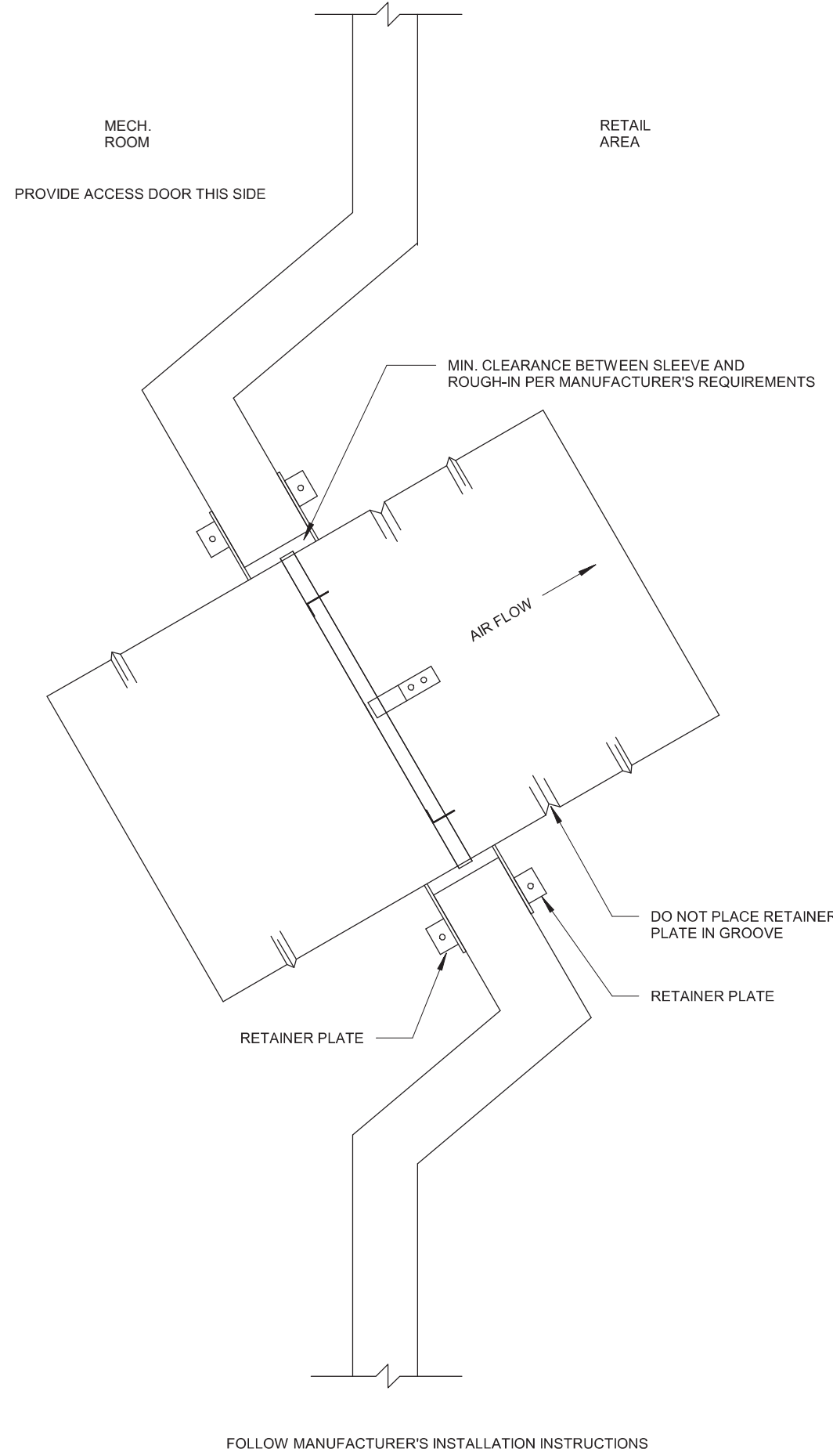


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Paper Size: ANSI D (22 x 34")



3
M-2
Fire Damper (FD1/FD3) Detail
1 : 20



4
M-2
Fire Damper (FD2) Detail
1 : 10

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C

detail number
numéro de detail

source drawing no.
de dessin no.

detail on drawing no.
detail sur dessin no.

A

B

C

Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client

Parks Canada Agency
Western and Northern Region

L'Agence Parcs
Canada
Ouest et Nord Région

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd

EPIX
Engineering
2017-215 MCLEOD AVE
SPRUCE GROVE, AB T7X0G2
PH 587.286.7316

Project Title
Titre du projet

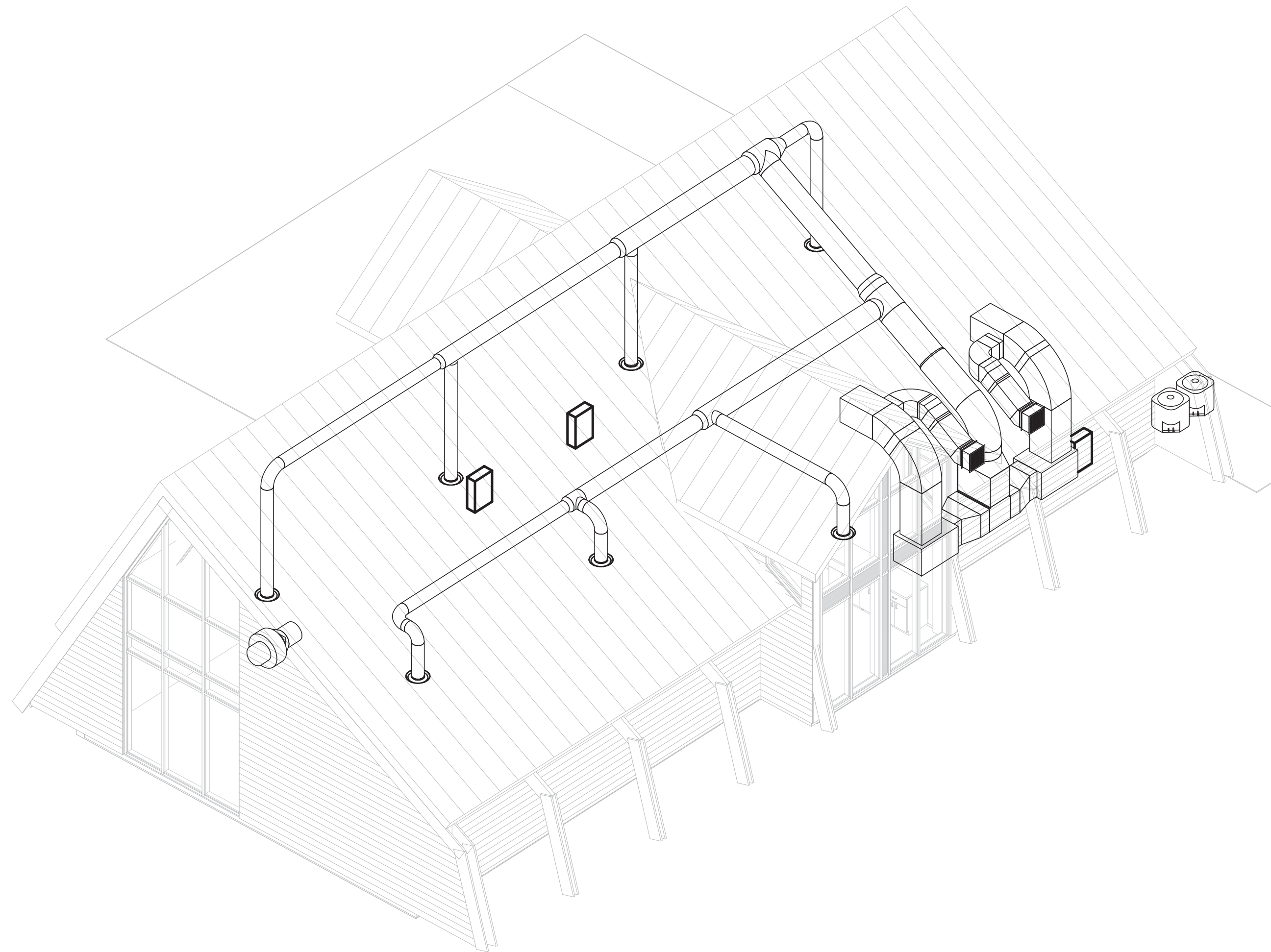
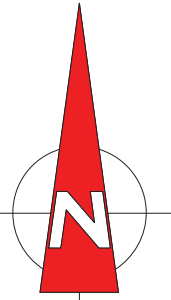
**ELK ISLAND VISITORS CENTRE
REHABILITATION**

**FORT SASKATCHEWAN
ELK ISLAND NATIONAL PARK, AB**

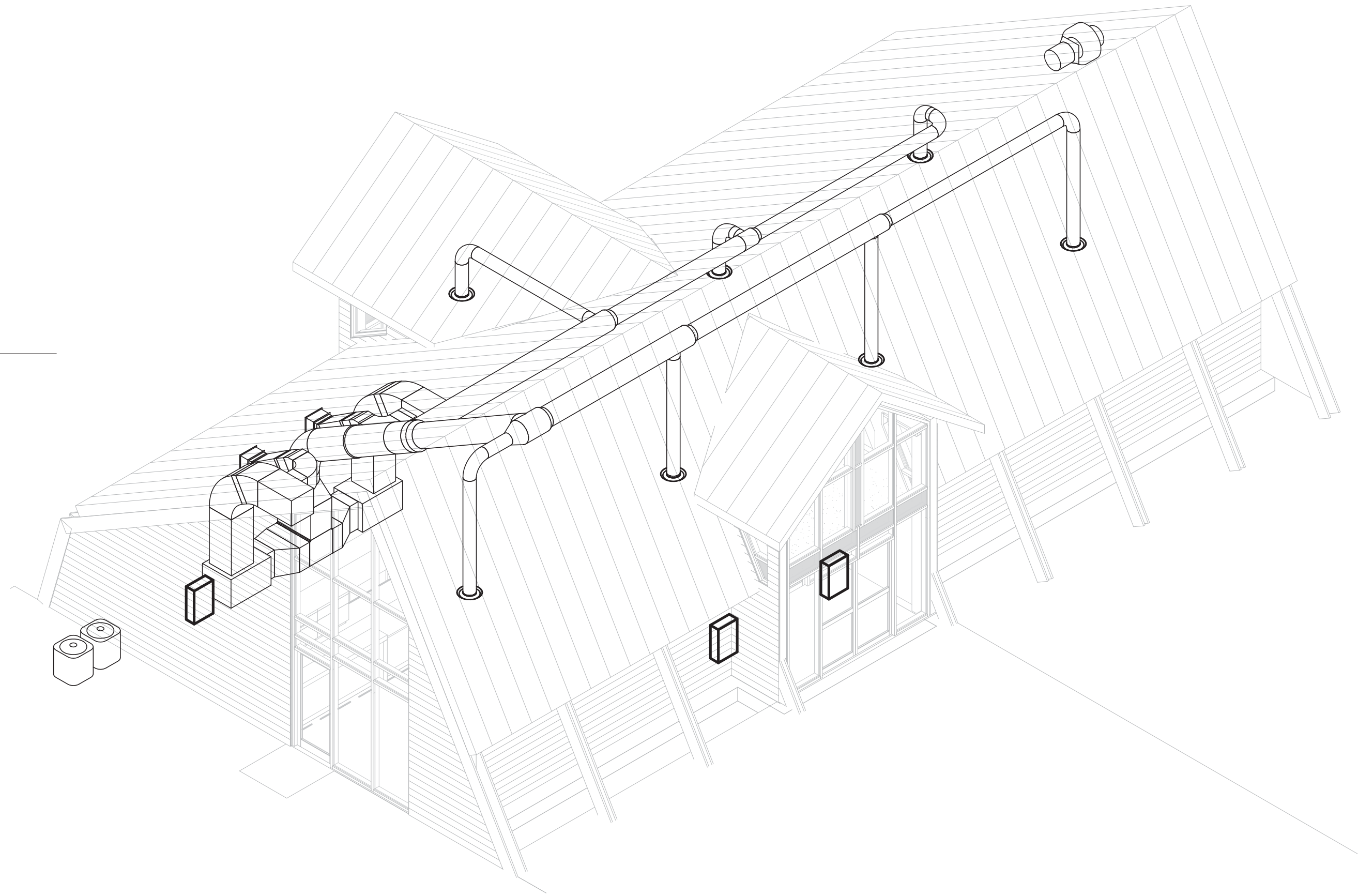
Drawing Title
Titre du dessin

HVAC ELEVATIONS

Surveyed by / Arpenté par	Drawn by / Dessiné par M.SHALABY	Date 2017.09.26
Designed by / Conçu par S.CORKE	Reviewed by / Révisé par R.BACHYNSKI	Scale / Échelle AS NOTED
Parks Canada Project Manager / Administrateur de Projets Parcs Canada MARK MCINTYRE		
Client Acceptance / Acceptation du client		Approved by / Approuvé par
Parks Canada Responsible Officer / Agent Responsable Parcs Canada		Parks Canada Project Manager / Administrateur de Projets Parcs Canada
Project No. / No. du projet 2131-00299	Asset No. / No. du-bien	Sheet No. No. de la feuille M2
Drawing Reference No. / No. de référence du dessin		



1 HVAC 3D VIEW1
M-3



2 HVAC 3D VIEW2
M-3

0 1:300 15

FILE: C:\SERS\GABRIEL\EPX ENGINEERING\71001 ELVISITORS CENTRE - DOCUMENTS\1 DRAWINGS\3 PHASE 2\TITLE BLOCK.DWG PLOTTED: 2017/09/26 08:41 AM

Paper Size: ANSI D (22 x 34")

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

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A	A detail number numéro de detail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. detail sur dessin no.	C

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur

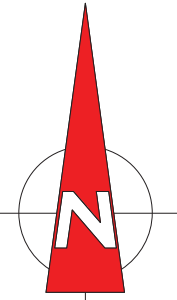
Client
Parks Canada Agency Western and Northern Region L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil
McElhanney McElhanney Consulting Services Ltd.
EPIX Engineering 2017-215 MCLEOD AVE SPRUCE GROVE, AB T7X0G2 PH 587.286.7316

Project Title Titre du projet
ELK ISLAND VISITORS CENTRE REHABILITATION
FORT SASKATCHEWAN ELK ISLAND NATIONAL PARK, AB

Drawing Title Titre du dessin
HVAC 3D VIEWS

Surveyed by / Arpenté par	Drawn by / Dessiné par	Date
	M.SHALABY	2017.09.26
Designed by / Conçu par	Reviewed by / Revisé par	Scale / Echelle
S.CORKE	R.BACHYNSKI	AS NOTED
Parks Canada Project Manager / Administrateur de Projets Parcs Canada MARK MCINTYRE		
Client Acceptance / Acceptation du client		Approved by / Approuvé par
Parks Canada Responsible Officer / Agent Responsable Parcs Canada		Parks Canada Project Manager / Administrateur de Projets Parcs Canada
Project No. / No. du projet	Asset No. / No. du-bien	Sheet No. No. de la feuille
2131-00299		M3
Drawing Reference No. / No. de référence du dessin		

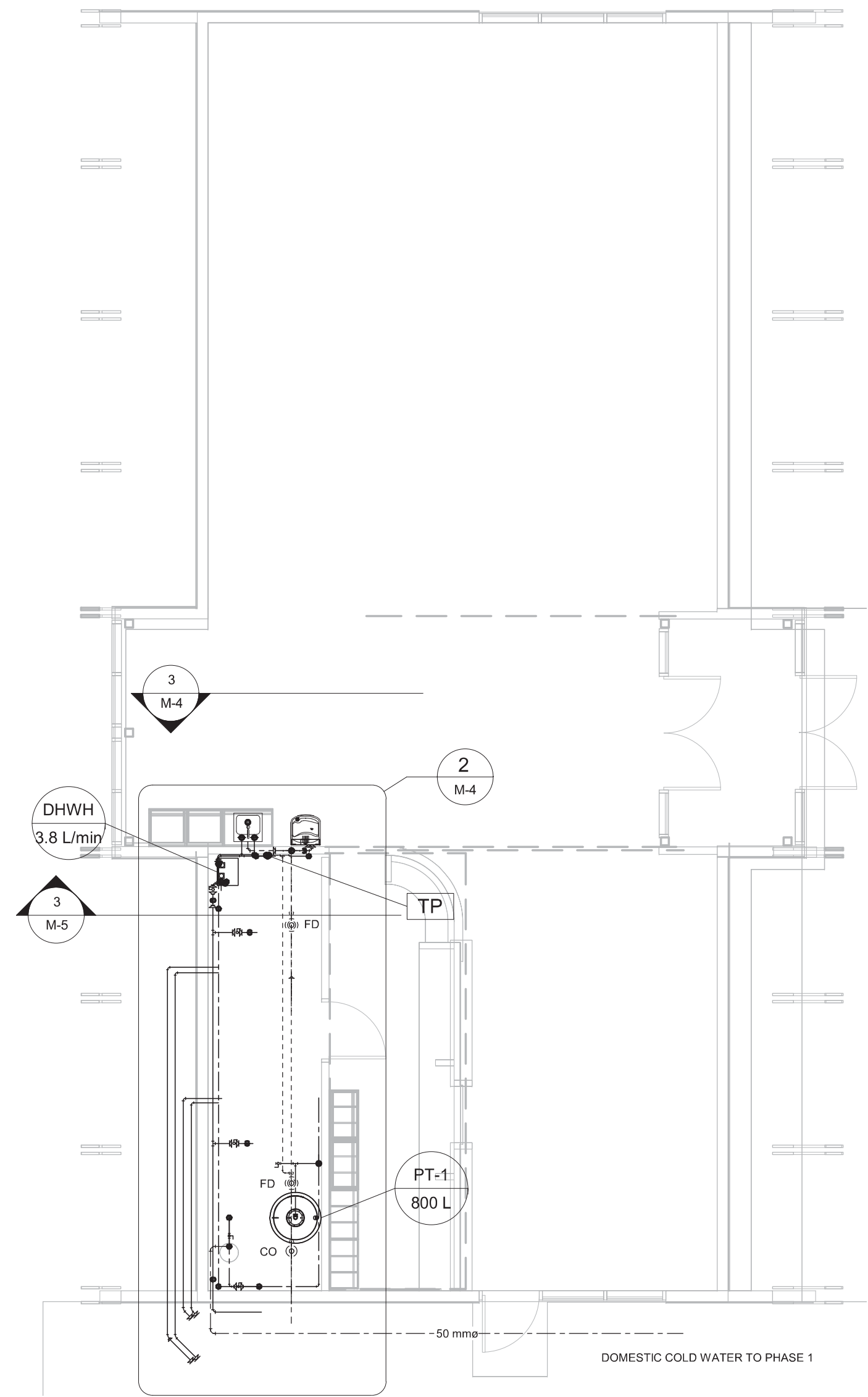


NOTES

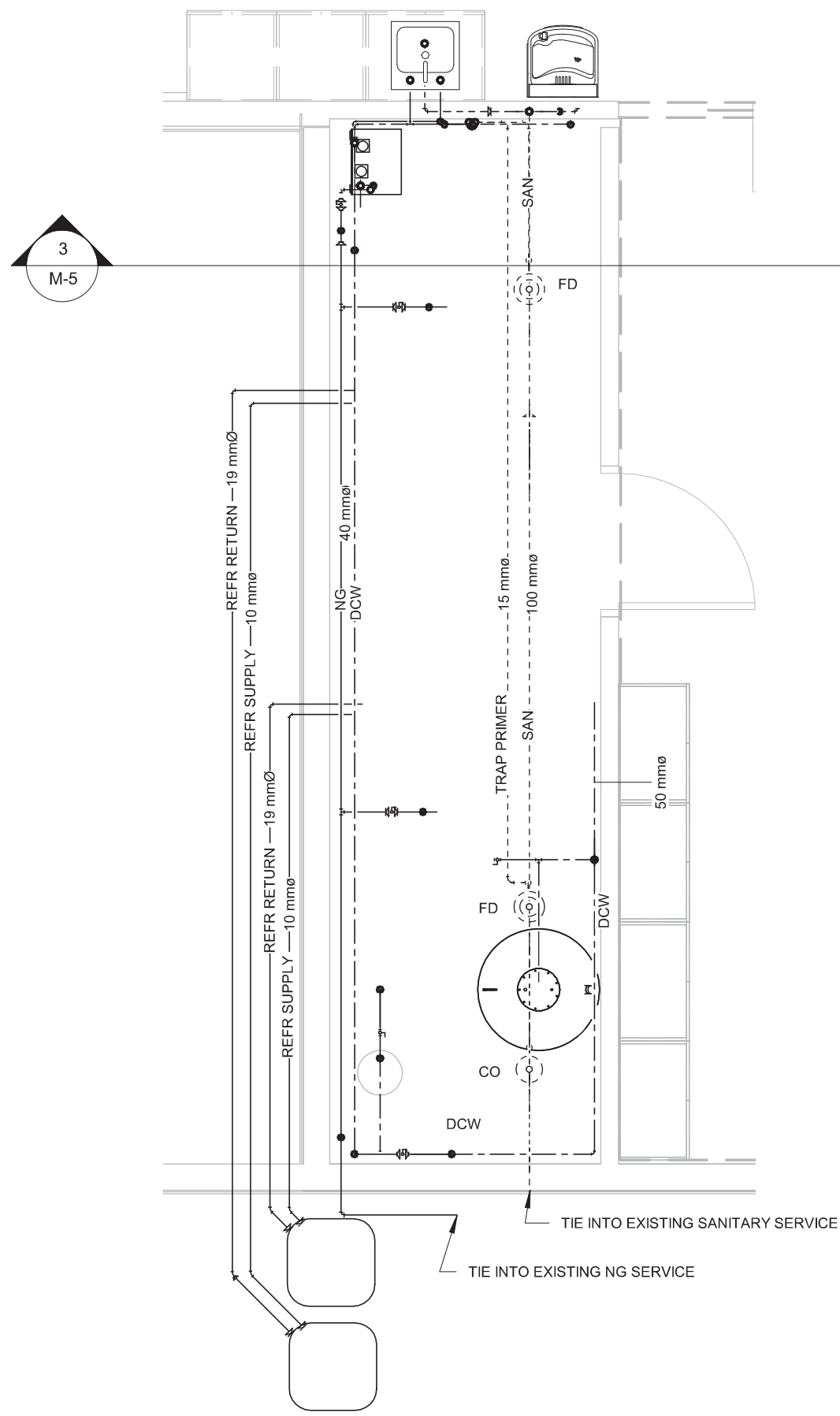
1. INSULATE HOT WATER LINES REFER TO EWP-002 FOR SPECIFICATIONS
2. CUT EXISTING CONCRETE FLOOR TO ALLOW FOR NEW SANITARY PIPE INSTALLATION
3. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS
4. INSTALL ALL NATURAL GAS PIPING TO B149 NATURAL GAS PIPING CODE
5. COORDINATE SINK AND FAUCET WITH ARCHITECT
6. REFER TO NMS DOCUMENTS

LEGEND

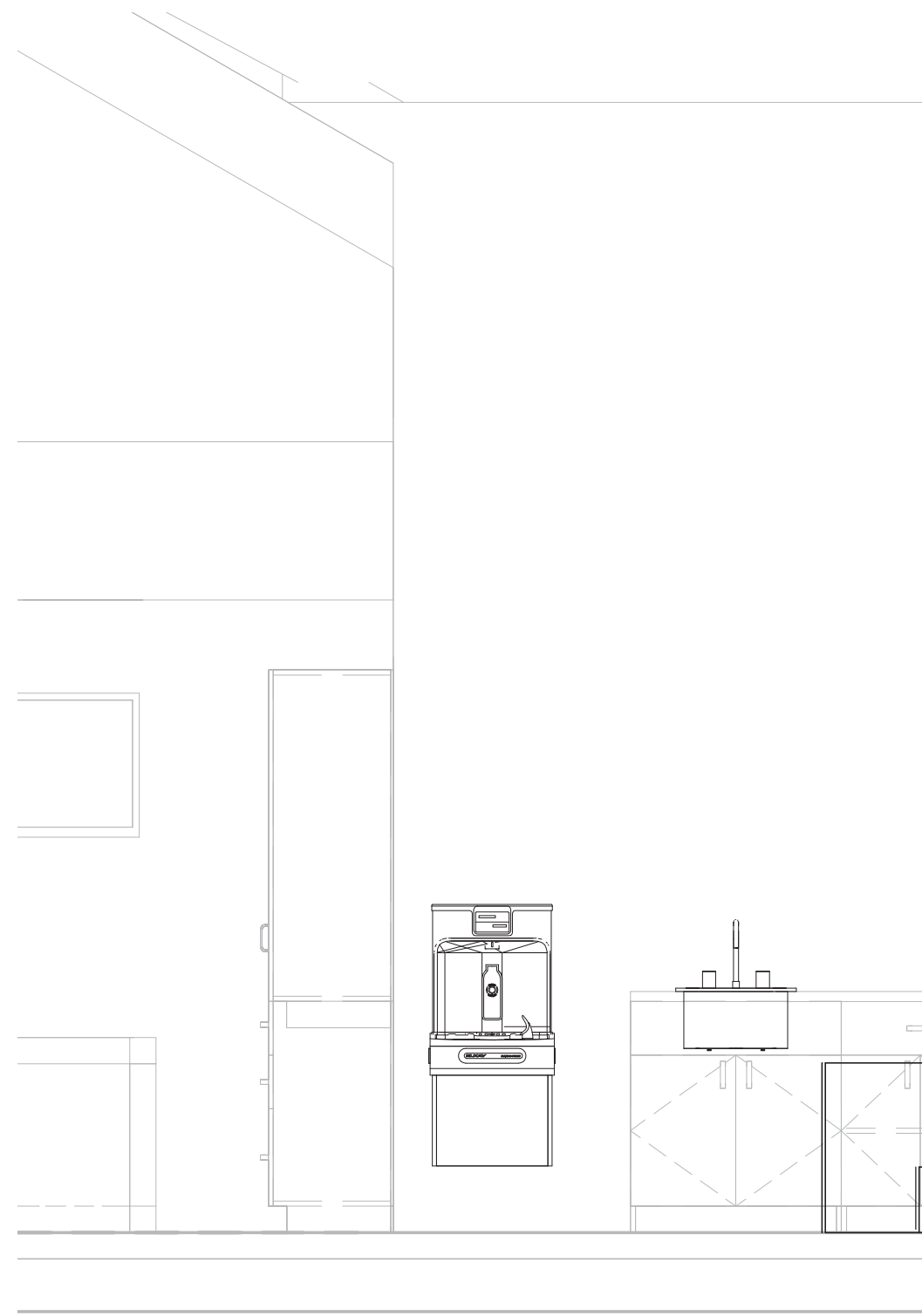
- SANITARY
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- NATURAL GAS
- REFRIGERANT SUPPLY/RETURN



1 Plumbing Layout
1 : 75



2 Plumbing Layout Detail
1 : 40



3 Sink / Water Fountain Detail
1 : 25

PLUMBING FIXTURE PIPE SIZE CHART					
FIXTURE	DCW	DHW	DRAIN	VENT	NG
SK- SINK	13mm	13mm	32mm	32mm	-
FD- FLOOR DRAIN	13mm	-	76mm	-	-
CO- CLEAN OUT	-	-	76mm	-	-
F-1 AND F-2 - FURNACES	-	-	41mm	50mm	38mm
DHWH - HOT WATER HEATER	19mm	19mm	13mm	50mm	19mm

DOMESTIC HOT WATER HEATER					
TAG	NG INPUT (MJ/HR)	WATER PIPE	ELECTRICAL DATA		STANDERD OF ACCEPTANCE
			VOLT	WATTS	
DHWH	19-126	19 mm	120	200	NAVIENT TANKLESS NPE-150S WITHOUT...

PLUMBING FIXTURE SCHEDULE				
TAG	MANUFACTURER	MODEL	DISCRIPTION	QTY
SK	KOHLER	K-5283	UNDER-MOUNT SINK	1
-	MOEN	8225	FAUCET	1
BFS	ELKAY	LZSG8WSSK	BOTTLE FILL STATION C/W WALL CARRIER...	1
FD	WATTS	FD-104P-C-A5-1-6	FLOOR DRAIN	2
CO	WATTS	CO-204P-S-3-6	CLEANOUT	2
TP	PRECISION PLUMBING PRODUCTS	P2-500	TRAP PRIMER	1
-	PRECISION PLUMBING PRODUCTS	DU-4/DU-U	TRAP PRIMER DISTRIBUTION UNIT (2 DRAIN)	1

DOMESTIC WATER PRESSURE TANK SCHEDULE						
TAG	MANUFACTURER	MODEL	VOLUME (L)	SYSTEM CONNECTION (mm)	CHARGING VALVE	APPR. WT (KG)
PT-1	WESSELS	FXA-800L-WG	800	50	0.302-32NC	215

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0	2017.09.26	ISSUED FOR TENDER	MS	SC RB
Rev.	Date	Description	Drawn Dessiné	Designed Conçu Approved Approuvé

A	A detail number numéro de detail	A
B	source drawing no. de dessin no.	B
C	detail on drawing no. detail sur dessin no.	C

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur

Client



Parks Canada Agency
Western and Northern Region

L'Agence Parcs
Canada
Ouest et Nord Région

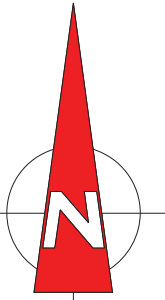
Consultant's Name Nom de l'expert-conseil	 McElhanney McElhanney Consulting Services Ltd.	 EPIX Engineering
		207-215 MCLEOD AVE SPRUCE GROVE, AB T7X0G2 PH 587.286.7316

Project Title Titre du projet
ELK ISLAND VISITORS CENTRE REHABILITATION
FORT SASKATCHEWAN ELK ISLAND NATIONAL PARK, AB

Drawing Title Titre du dessin
PLUMBING LAYOUT

Surveyed by / Arpenté par	Drawn by / Dessiné par	Date
	M.SHALABY	2017.09.26
Designed by / Conçu par	Reviewed by / Révisé par	Scale / Échelle
S.CORKE	R.BACHYNSKI	AS NOTED

Parks Canada Project Manager / Administrateur de Projets Parcs Canada MARK MCINTYRE		
Client Acceptance / Acceptation du client	Approved by / Approuvé par	
Parks Canada Responsible Officer / Agent Responsable Parcs Canada	Parks Canada Project Manager / Administrateur de Projets Parcs Canada	
Project No. / No. du projet	Asset No. / No. du bien	Sheet No. No. de la feuille
2131-00299		M4
Drawing Reference No. / No. de référence du dessin		

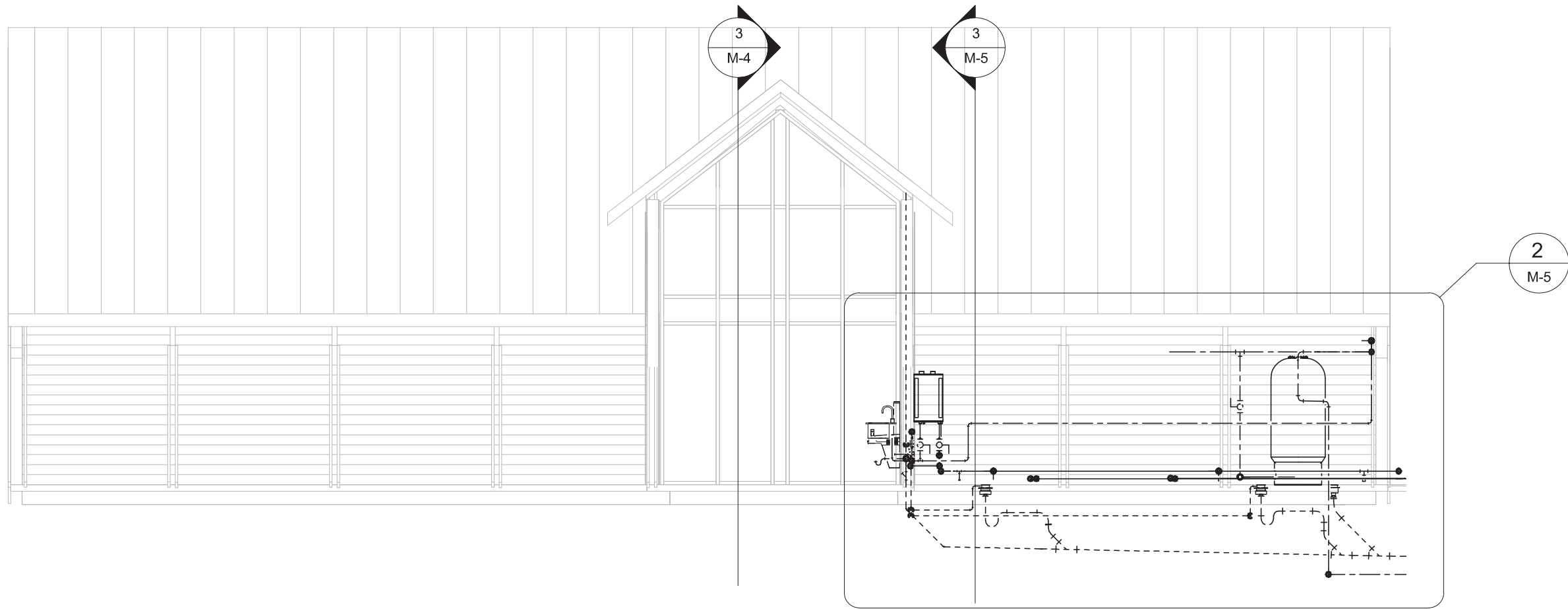


NOTES

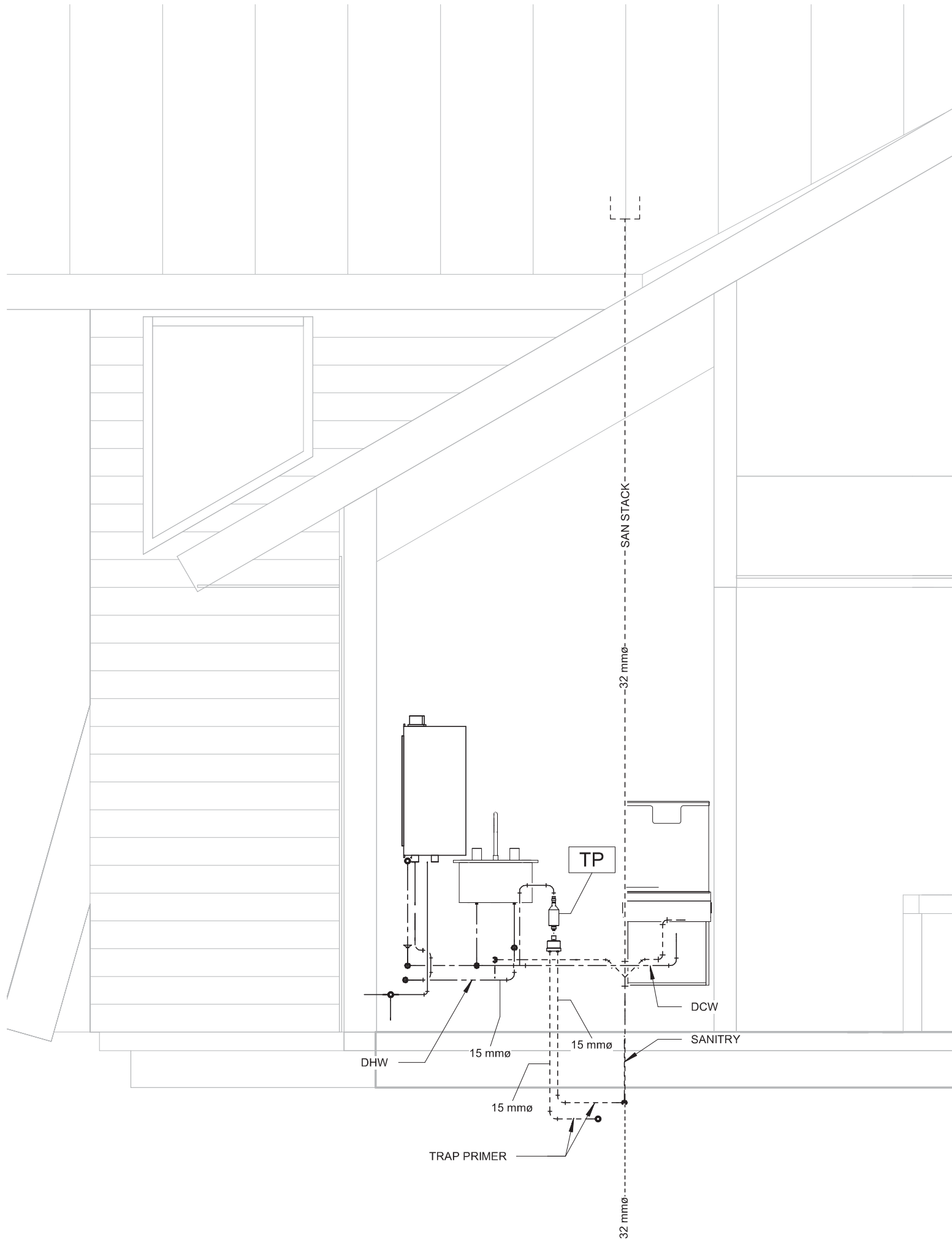
1. REFER TO DRAWING M-4 FOR NOTES

LEGEND

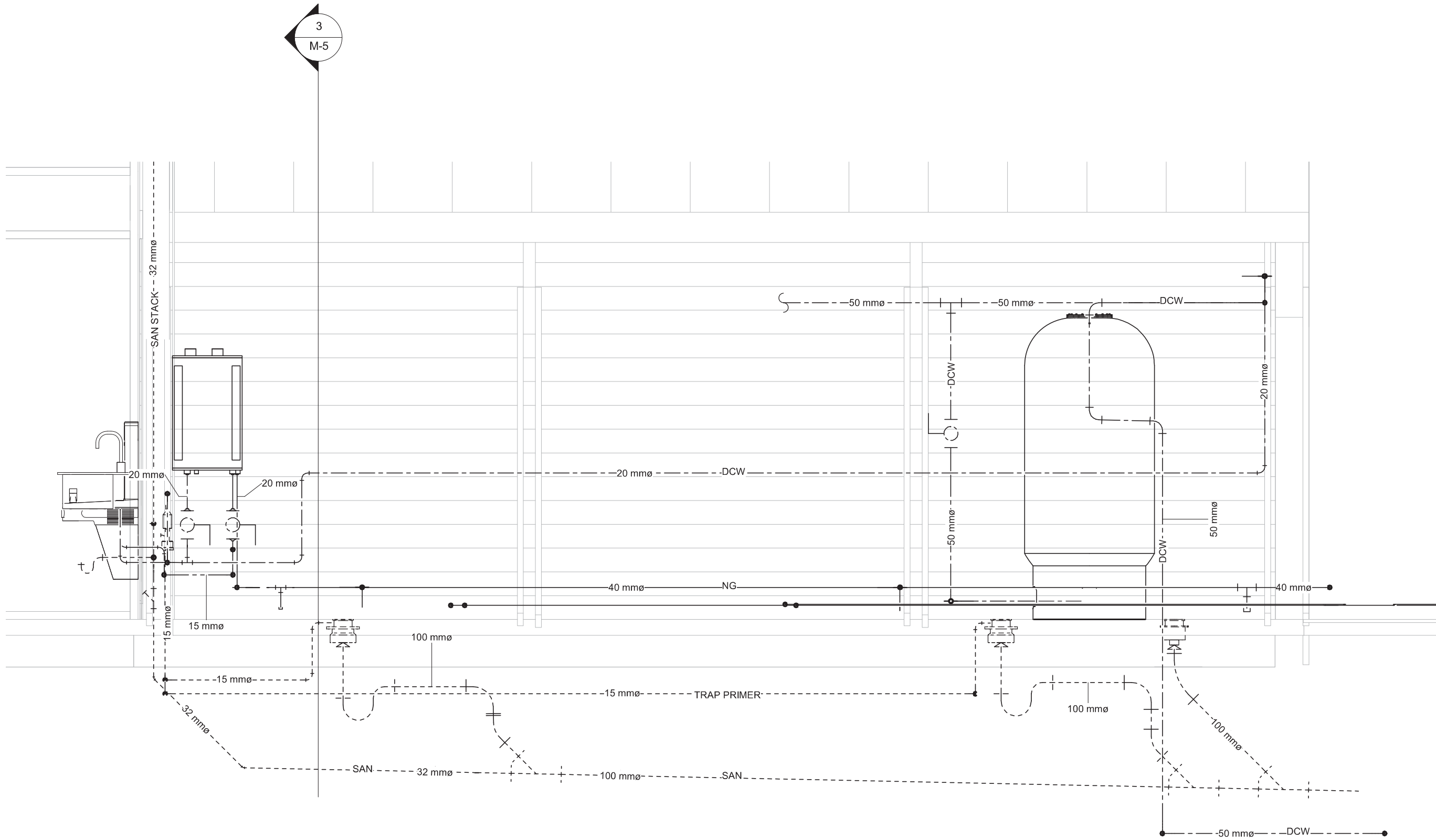
- SANITARY
----- DOMESTIC COLD WATER
----- DOMESTIC HOT WATER
----- NATURAL GAS
----- REFRIGERANT SUPPLY/RETURN



1
M-5
West Elevation
1 : 75



3
M-5
Mech. Room North Wall Section
1 : 25



2
M-5
West Elevation Detail
1 : 25

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3				
2				
1				
0	2017.09.26	ISSUED FOR TENDER	MS	SC RB
Rev.	Date	Description	Drawn Dessiné	Designed Conçu Approved Approuvé

A	A detail number numéro de detail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. detail sur dessin no.	C

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur

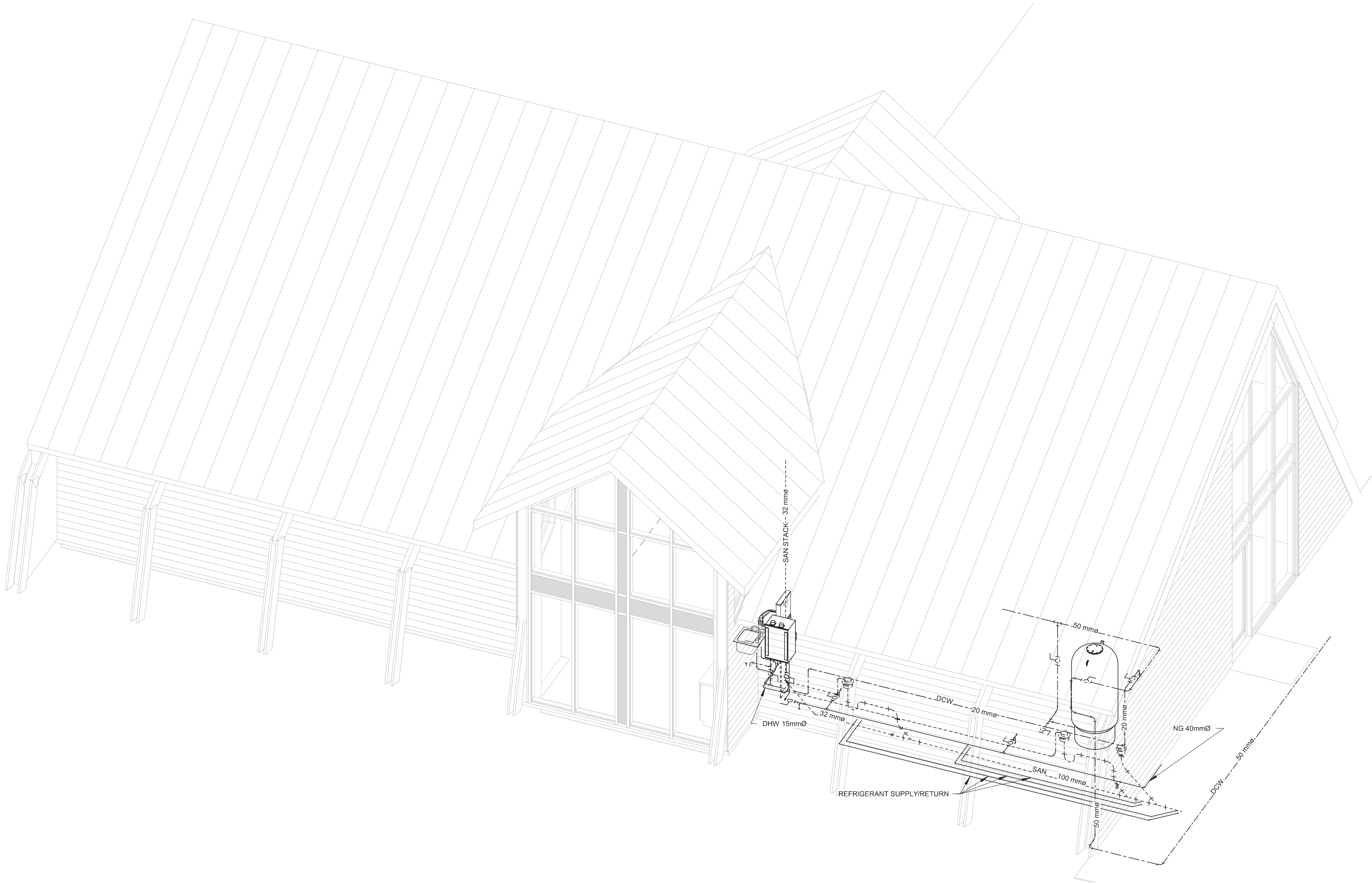
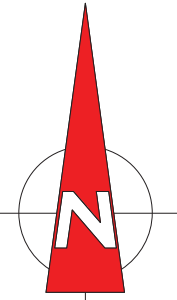
Client
Parks Canada Agency Western and Northern Region L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil
McElhanney McElhanney Consulting Services Ltd.
EPIX Engineering 2017-215 MCLEOD AVE SPRUCE GROVE AB T7X0G2 PH 587.286.7316

Project Title Titre du projet
ELK ISLAND VISITORS CENTRE REHABILITATION
FORT SASKATCHEWAN ELK ISLAND NATIONAL PARK, AB

Drawing Title Titre du dessin
PLUMBING ELEVATIONS

Surveyed by / Arpenté par	Drawn by / Dessiné par M.SHALABY	Date 2017.09.26
Designed by / Conçu par S.CORKE	Reviewed by / Révisé par R.BACHYNSKI	Scale / Échelle AS NOTED
Parks Canada Project Manager / Administrateur de Projets Parcs Canada MARK MCINTYRE		
Client Acceptance / Acceptation du client	Approved by / Approuvé par	
Parks Canada Responsible Officer / Agent Responsable Parcs Canada	Parks Canada Project Manager / Administrateur de Projets Parcs Canada	
Project No. / No. du projet 2131-00299	Asset No. / No. du-bien	Sheet No. No. de la feuille M5
Drawing Reference No. / No. de référence du dessin		



1
M-6
3D Plumbing View



FILE: C:\SERS\GABRIEL\EPX\ENGINEERING\7-001 ELK VISITORS CENTRE - DOCUMENTS\1 DRAWINGS\3 PHASE 2\TITLE BLOCK.DWG PLOTTED: 2017/09/26 08:41 AM

Paper Size: ANSI D (22 x 34")



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3					
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0	2017.09.26	ISSUED FOR TENDER	MS	SC	RB
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

<div>A</div> <div>C</div>	<div>A</div> <div>B</div> <div>C</div>	<div>A</div> <div>B</div> <div>C</div>
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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur

Client
<div> Parks Canada Agency Western and Northern Region</div> <div>L'Agence Parcs Canada Ouest et Nord Région</div>

Consultant's Name Nom de l'expert-conseil
<div> McElhanney McElhanney Consulting Services Ltd</div> <div> EPIX Engineering 2017-215 MCLEOD AVE SPRUCE GROVE, AB T7X0G2 PH 587.286.7316</div>

Project Title Titre du projet
ELK ISLAND VISITORS CENTRE REHABILITATION
FORT SASKATCHEWAN ELK ISLAND NATIONAL PARK, AB

Drawing Title Titre du dessin
PLUMBING 3D VIEW

Surveyed by / Arpenté par	Drawn by / Dessiné par M.SHALABY	Date 2017.09.26
Designed by / Conçu par S.CORKE	Reviewed by / Révisé par R.BACHYNSKI	Scale / Échelle AS NOTED
Parks Canada Project Manager / Administrateur de Projets Parcs Canada MARK MCINTYRE		
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Parks Canada Responsible Officer / Agent Responsable Parcs Canada		Parks Canada Project Manager / Administrateur de Projets Parcs Canada
Project No. / No. du projet 2131-00299	Asset No. / No. du-bien	Sheet No. No. de la feuille M6
Drawing Reference No. / No. de référence du dessin		