Part 1 General

1.1 ADDENDUM FORM

- .1 This Addendum forms part of the Contract Documents and modifies the Bidding Documents dated 19 May 2017 with amendments and additions noted below.
- .2 Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder at the Owner's discretion.

No.	Drawing Title	Issue Date
ID0.1	General Notes, List of Drawings, Code Review, Drawing Legend	August 9, 2017
M1.0	Keyplan, and Symbol Legend	August 9, 2017
M1.1	Existing Ceiling HVAC Layout	August 9, 2017
M1.2	Existing Raised Floor HVAC Layout	August 9, 2017
M1.3	Existing Underfloor HVAC Layout	August 9, 2017
M2.1R1	Existing and New PlumbingLayout	August 9, 2017
M3.1	New Ceiling HVAC Layout	August 9, 2017
M3.2	New Raised Floor HVAC Layout	August 9, 2017
M3.3	New Underfloor HVAC Layout	August 9, 2017
M4.1	New Underfloor Piping Layout	August 9, 2017
M5.1	Sprinkler Layout	August 9, 2017
M6.1	Mechanical Schedules	August 9, 2017
M7.1	Mechanical Details and Control Schematic	August 9, 2017
E2.1R1	New Lighting Layout	August 9, 2017
E3.1R1	Luminaire Schedule	August 9, 2017

.3 This addendum consists of two (2) pages plus the following list of drawings:

1.2 CHANGES TO SPECIFICATIONS

- .1 SECTION 01 14 00 WORK RESTRICTIONS
 - .1 **Add** Item 1.6.3: A list of all staff anticipated to work on this project, with their birthdates, must accompany bid submissions.

1.3 CHANGES TO DRAWINGS

- .1 DRAWING ID0.1 General Notes, List of Drawings, Code Review, Drawing Legend
 - .1 **Replace** Drawing ID0.1 with the attached drawing.
- .2 DRAWINGS M1.0 to M7.1 Mechanical Drawings
 - .1 **Replace** all Mechanical Drawings with the attached Mechanical Drawings.
 - .2 **Refer** to Drawing M2.1R1; existing kitchenette sink to be removed, including associated drain pump and instantaneous water heater under sink. Cap off existing domestic water supply, drain, and vent in ceiling space respectively and remove associated pipes as shown.
- .3 DRAWING E2.1 New Lighting Layout
 - .1 **Revise** lighting layout as shown.
- .4 DRAWING E3.1 Luminaire Schedule

- .1 **Revise** luminaire type N as shown.
- .2 Add luminaire types G3, P1, and P2 as shown.

1.4 CLARIFICATIONS

- .1 Q: "A note on drawings ID2.1 and ID2.2 states to add blocking in wall, see drawing 13/ID3.1...The detail 13 shows the atrium wall. What is the detail on the blocking?"
 - .1 A: Elevation 3 on sheet ID3.3, and specification section 06 10 00, items 2.1.2 and 3.2, provide the description of the blocking.
- .2 Q: "Fire extinguishers....mechanical drawings state that fire extinguishers are by owner"
 - .1 A: Fire extinguishers are provided by Owner, to be installed by GC.
- .3 Q: "Could we have a detail on the new clouds"
 - .1 A: Refer to Sheet ID2.1, Detail 4.
- .4 Note that AI phone will be supplied by Departmental Representative, and be installed as part of the Work.

1.5 NOTES FROM BIDDERS' SITE WALK-THROUGH

- .1 Due to delays in the substantial completion of other projects in the building, the anticipated construction start date for this project is delayed until end of August for the south portion of the floor and mid-October for the north portion of the floor.
- .2 BGIS noted that there has been recent water damage on the north side of the building due to a roof leak. The leak has been repaired however confirmation of a successful repair is required prior to repair of the damaged ceiling.
- .3 The list of walk-through attendees is attached to this addendum.

END OF ADDENDUM NUMBER NO. 5

LIS	ST OF DRAWINGS
	DR DESIGN
ID0.1	
ID1.1	4TH FLOOR DEMOLITION PLAN (NORTH)
ID1.2	4TH FLOOR DEMOLITION PLAN (SOUTH)
ID2.1	4TH FLOOR CONSTRUCTION PLAN (NORTH)
ID2.2	4TH FLOOR CONSTRUCTION PLAN (SOUTH)
ID3.1	INTERIOR ELEVATIONS
ID3.2	INTERIOR ELEVATIONS AND DETAILS
ID3.3	SECTIONS AND PLAN DETAILS
ID4.3	FINISH SCHEDULES
ID5.2	4TH FLOOR FURNITURE PLAN (NORTH) - FOR REFERENCE ONLY
ID5.3	4TH FLOOR FURNITURE PLAN (SOUTH) - FOR REFERENCE ONLY
MECHA	NICAL
M1.0	KEY PLAN, SYMBOL SCHEDULE AND DRAWING LIST
M1.1	EXISTING CEILING HVAC LAYOUT
M1.2	EXISTING RAISED FLOOR HVAC LAYOUT
M1.3	EXISTING UNDER FLOOR HVAC LAYOUT
M2.1	EXISTING AND NEW PLUMBING LAYOUT
M3.1	NEW CEILING HVAC LAYOUT
M3.2	NEW RAISED FLOOR HVAC LAYOUT
M3.3	NEW UNDER FLOOR HVAC LAYOUT
M4.1	NEW UNDER FLOOR PIPING LAYOUT
M5.1	NEW SPRINKLER LAYOUT
M6.1	MECHANICAL SCHEDULES
M7.1	MECHANICAL DETAILS AND CONTROL SCHEMATIC
ELECTR	
E1.0	4TH FLOOR KEYPLAN, PENTHOUSE KEYPLAN, DRAWING LIST AND SYMBOL SCHEDULE
E1.1	LIGHTING DEMOLITION LAYOUT
E1.2	UNDER FLOOR POWER DEMOLITION LAYOUT
E1.3	POWER DEMOLITION LAYOUT
E1.4	LIFE SAFETY SYSTEMS DEMOLITION LAYOUT
E2.1	NEW LIGHTING LAYOUT
E2.2	NEW UNDER FLOOR POWER LAYOUT
E2.3	NEW POWER LAYOUT
E2.4	NEW LIFE SAFETY SYSTEMS LAYOUT
E3.1	ELECTRICAL SCHEDULES
E3.2	PANELBOARD SCHEDULES
E3.3	LIGHTING CONTROL SCHEDULE AND SCHEMATIC DIAGRAM
E3.4	EXISTING SINGLE LINE DISTRIBUTION DIAGRAM AND ELECTRICAL ROOM LAYOU
СОММИ	NICATION
T1.0	KEYPLAN, SYMBOL SCHEDULE AND DRAWING LIST
T1.1	EXISTING/DEMOLITION TELECOMMUNICATIONS LAYOUT
T1.2	EXISTING/DEMOLITION ACCESS CONTROL SYSTEMS LAYOUT
T2.1	NEW TELECOMMUNICATIONS LAYOUT
T2.2	NEW ACCESS CONTROL AND VIDEO SURVEILLANCE LAYOUT AND DETAILS
T2.3	NEW INTRUSION ALARM SYSTEM LAYOUT
T2.4	NEW INTROGION ALARMI STOTEM LAYOUT
T3.1	TELECOMMUNICATIONS SINGLE LINE DIAGRAMS
13.1	

ABBREVIATION LEGEND

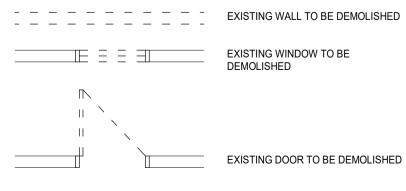
- ADO AUTOMATIC DOOR OPERATOR ACT ACOUSTIC CEILING TILE
- CG CORNER GUARD CL CLEAR
- CONC. CONCRETE EX EXISTING
- GL GLASS GWB GYPSUM WALL BOARD
- HM HOLLOW METAL PT PAINT
- RB RUBBER BASE SCW SOLID CORE WOOD ST STAIN
- SL SIDELITE TR TRANSOM
- VF VINYL FILM VP VISION PANEL
- VPG VISION PANEL GEORGIAN WIRE WD WOOD

GENERAL NOTES	DIME
1. THE DRAWINGS SHALL NOT BE SCALED FOR INFORMATION.	
 THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY HIMSELF THAT ALL DIMENSIONS, DATUMS AND DETAILED INFORMATION SHOWN ARE CORRECT. 	
 THE CONTRACTOR IS TO REPORT ANY DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF WORK. 	
 THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS THRU FLOORS, WALLS AND CEILINGS INCLUDING BUT NOT LIMITED TO DUCT, PIPING AND ELECTRICAL RISERS. 	(grid) +
 PRODUCTS AND MATERIALS ARE TO BE USED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. DIMENSIONAL PROPERTIES OF THE MATERIALS ARE NOTED IN MILLIMETERS UNLESS INDICATED OTHERWISE. 	
 THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR, PATCH AND MAKE GOOD ALL EXISTING SURFACES ADJACENT NEW CONSTRUCTION AND ALL EXISTING FINISHES AFFECTED BY THE CONSTRUCTION. 	
 CARPET & ACOUSTIC TILE REMOVED DURING DEMOLITION TO BE HANDED OVER TO BUILDING OWNER. 	Ę
	-
SYMBOL LEGEND	

Ex	WALL TYPE	CASEWORK TAG AWMAC NUMBER WIDTH/DEPTH/HEI NOTES UNIQUE NOTES
x	KEYNOTE	
×	DEMO NOTE	X ELEVATION TAG DIRECTION OF VI X AX.X X ELEVATION NUM
x	FURNITURE NOTE	XDRAWING SHEET
x	EQUIPMENT NOTE	CALLOUT TAG CALLOUT NUMBE
xx	ABBREVIATION	SHEET TAKEN FF
<wx></wx>	WINDOW TYPE	WALL SECTION TAG DIRECTION OF VI X SECTION NUMBE
DXYZ	DOOR NUMBER	AXXAXX SHEET DRAWN C
grid	GRID LINE	
101-	ROOM TAG ROOM NUMBER ROOM NAME	AX.XAX.X AX.XAX.X AX.XAX.X AX.XAX.X AX.XAXAX AX.XAX XAX
	BREAK LINE	CALLOUT NUMBE
¢_	CENTER LINE	AX.X DRAWING SCALE
	CEILING TAG	SHEET DRAWN C
TYPE - HEIGHT	CEILING MATERIAL AND TYPE	
	HEIGHT ABOVE FINISHED FLOOR LEVEL	

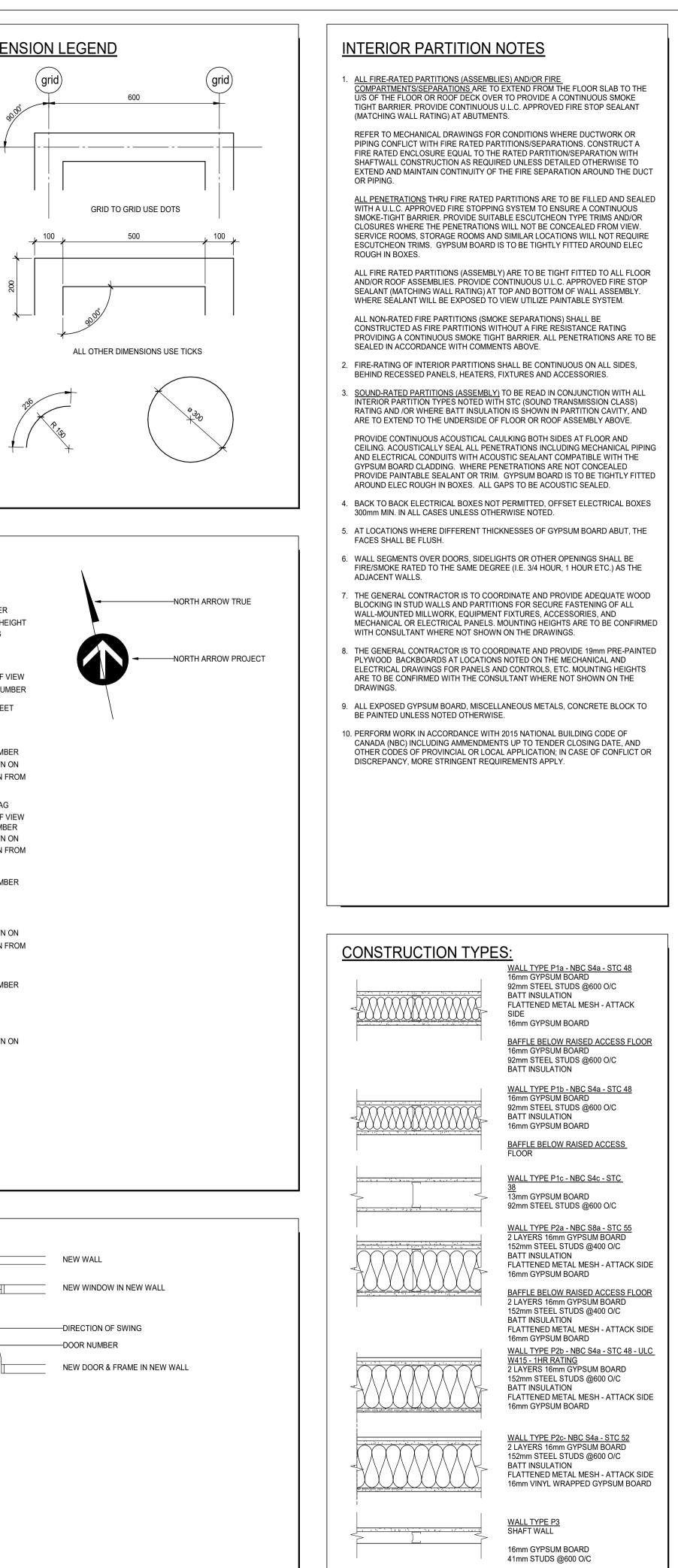
DRAWING LEGEND NEW CONDITIONS EXISTING CONDITIONS EXISTING WALL TO REMAIN LINETYPES _ _ _ _ _ _ _ _ _ _ _ _ _ OBJECT OVERHEAD EXISTING WINDOW TO REMAIN CENTER LINE _____ _ _ _ _ _ _ _ _ _ _ _ _ _ DEMOLINE -DIRECTION OF SWING GRIDLINE _____ _ _ ___ -DOOR NUMBER ----- HIDDEN LINE EXISTING DOOR TO REMAIN

DEMO CONDITIONS



EXISTING WINDOW TO BE DEMOLISHED

EXISTING DOOR TO BE DEMOLISHED



	LOCATION:			e, Yellowknife, NW		
	LEGAL DESCRIP	TION:	not available			
2	PROJECT DE	ESCRIPTION				
		NEW		ADDITION	1	ALTERATION
3	MAJOR OCC	UPANCIES		D		
	MULTIPLE MAJO	R OCCUPANCIES		2.42	2	-
	FIRE SEPARTION	N REQUIRED (HRS	5)	0	hr	0.70
	BUILDING AI	DEA				
4	EXISTING (M2):		NEW (M2):	0	TOTAL (M2):	7570
	FIREWALL:	-	REQUIRED	-	NOT REQUIRED	
		RATING AND GR	ID LOCATION:			
~						
5	GROSS FLO EXISTING M2):	OR AREA 1321.8	NEW (NO)		TOTAL (M2)-	1321.8
	EXISTING M2):	1321.8	NEW (M2):		TOTAL (M2):	1321.8
6	NUMBER OF	STOREYS				
	ABOVE GRADE:			BELOW GRADE:		
		0705570				
7	FACING:		1 STREET		2 STREETS	√ 3
	Nonto.		TOTALLT		ZONALLIO	• •
8	BUILDING CI	LASSIFICATIO	N			
	3.2.2.	57	DESCRIPTION:	GROUP D, UP TO	0 6 STOREYS, ARE	EA, SPRINKLERED
	SPRINKLER SYS			REQUIRED		NOT REQUIRED
	PERMITTED COM			COMBUSTIBLE		NON-COMBUSTIBL
	INEQUIRED FIRE	RESISTANCE RA	. moo (nks):	ROOF:		FLOOR: 1
)	STANDPIPE	SYSTEM				
		1	REQUIRED		NOT REQUIRED	✓ E
0	EVITOLOU	26				
	EXIT SIGNAC		REQUIRED		NOT REQUIRED	E
		1				E
0	FIRE ALARM	SYSTEM				
		1	REQUIRED		NOT REQUIRED	√ E
	VEDTICAL	DANGDODTAT				
2	/	RANSPORTAT		· · · · · · · · · · · · · · · · · · ·		
		E ROOM FIRE SEP				
		MIN. ELEV	ATOR SIZE (mm)			
6	EXIT DIMENS	SIONS				
	1	EL DISTANCE (M):	40	CORRIDOR CL	EAR WIDTH (mm):	1100
	STAIRS			1		
		EAR WIDTH (mm):	1100	LANDING CLI	EAR WIDTH (mm):	1100
	DOORS	EAR WIDTH (mm):	800	1		
17	EXIT CAPAC		800			
		NUMBER	DOOR WIDTH	WIDTH PER	CAPACITY OF	NUMBER
	FLOOR	OF DOORS	(mm)	PERSON (mm)	DOORS	OF STAIRS
	4	3	850	6.1	418	3
				6.1		
				6.1		
				6.1 6.1 6.1		
			ADEQUATE	6.1	YES	
			ADEQUATE	6.1 6.1	YES	
	OTHER EXIT CO	NSIDERATIONS:	ADEQUATE	6.1 6.1	YES	
	OTHER EXIT CO	NSIDERATIONS:	ADEQUATE	6.1 6.1	YES	
3	OTHER EXIT CO		ADEQUATE	6.1 6.1	YES	
3		LOAD	ADEQUATE M2 / PERSON	6.1 6.1 EXIT CAPACITY	YES DESIGN OF BUIL	DING
1) 1	OCCUPANT BASED ON: FLOOR	LOAD	M2 / PERSON	6.1 6.1 EXIT CAPACITY		OCCUPANC
3	OCCUPANT BASED ON:	LOAD	M2 / PERSON	6.1 6.1 EXIT CAPACITY		
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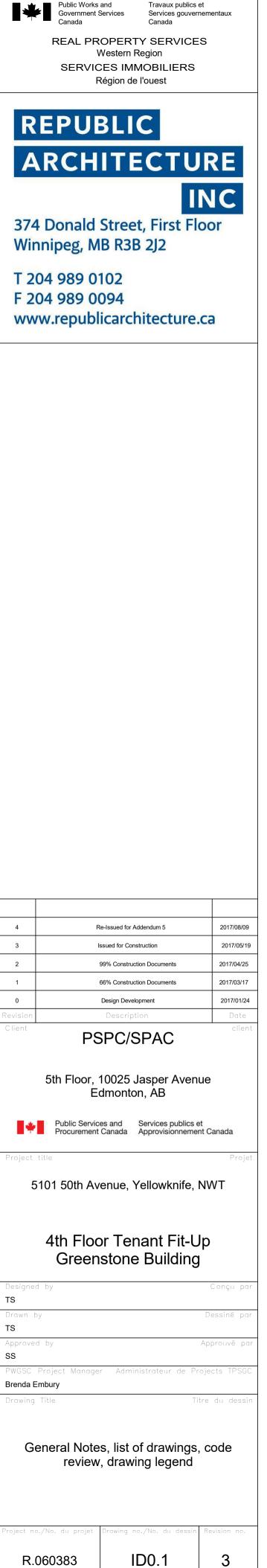
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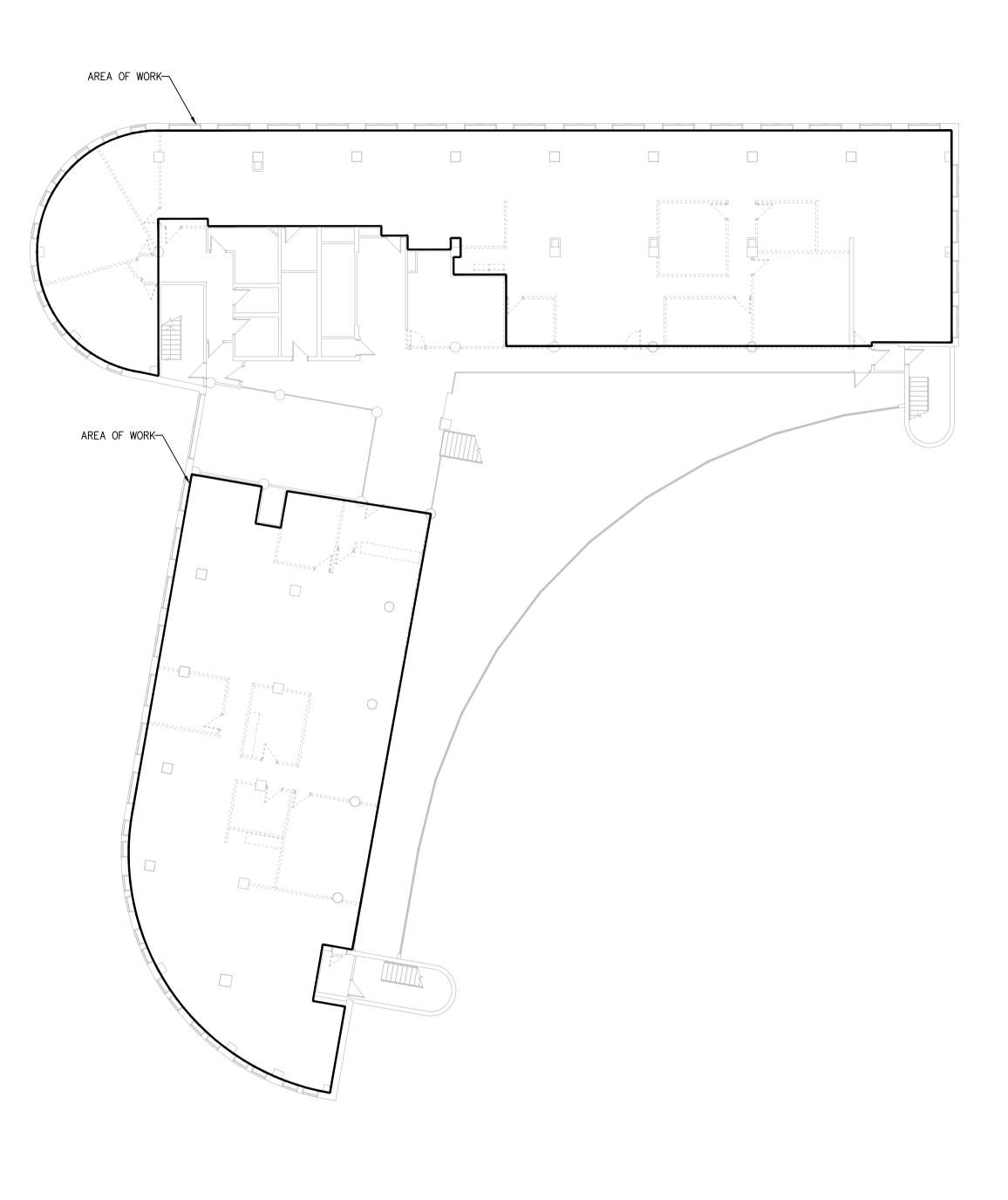
PROJECT INFORMATION

195 GOC Greenstone

NAME OF PROJECT:

DING CODE OF		DA 2015						-	
SCRIPTION						REFERENCE			
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✓ 3 STRE	EETS	1	FIREFIGHTER AC	CESS				F 2	
						3.2.2.20-90		WW	w.
SPRINKLERED	✓ E	EXISTING TO RE	MAIN	•					
N-COMBUSTIBLE FLOOR: 1 hr		MEZZANINE:	n/a						
✓ EXISIT	NG TO REN	IAIN				3.2.5.8			
						3.4.5			
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1100	MAX DE	AD END CORRID	OOR LENGTH (M):	6					
1100	LANE	DING TO LANDIN	G MAX. RISE (M):	3.7	ĺ,				
NUMBER TREA	D WIDTH	WIDTH PER	CAPACITY OF			3.4.3.2			
OF STAIRS ((mm)	PERSON (mm)	STAIRS	EXIT CAPACITY					
3 1	1100	8	412.5	412					
		8							
		8			e Q				
E	EXIT CAPAC	ITY DISTRIBUTE	D AS REQUIRED	YES					
G						3.1.17			
OCCUPANCY LO. 33.3 M2 / (9.3 M2 PER				F PERSONS					
	1	TOTAL:		128					
UIRED (HRS):	0 hr					3.3.1 / 3.3.2.6 / 3.4.2.4			
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WOMENS WC'S	s	MENS	WC'S	UNISE	X WC'S	3.7		3	
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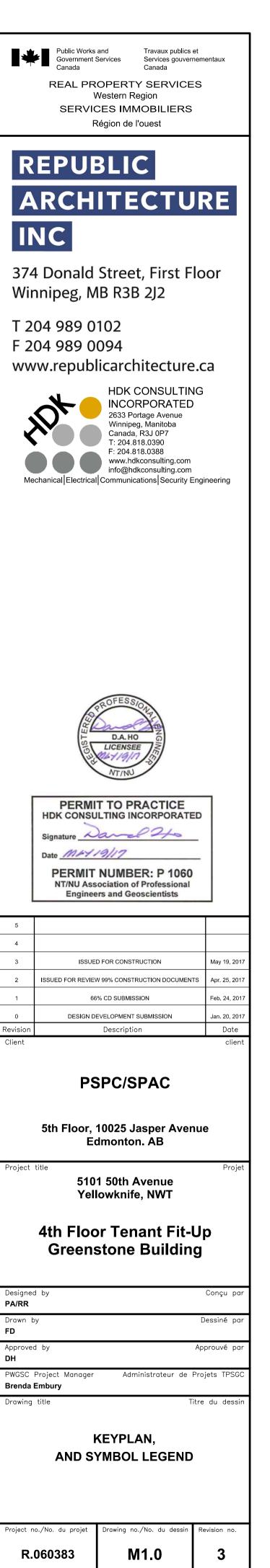
	DRAWING LIST
DWG NO.	DRAWING TITLE
M1.0	KEY PLAN, SYMBOL SCHEDULE AND DRAWING LIST
M1.1	EXISTING CEILING HVAC LAYOUT
M1.2	EXISTING RAISED FLOOR HVAC LAYOUT
M1.3	EXISTING UNDERFLOOR HVAC LAYOUT
M2.1	EXISTING AND NEW PLUMBING LAYOUT
M3.1	NEW CEILING HVAC LAYOUT
M3.2	NEW RAISED FLOOR HVAC LAYOUT
M3.3	NEW UNDERFLOOR HVAC LAYOUT
M4.1	NEW UNDERFLOOR PIPING LAYOUT
M5.1	SPRINKLER LAYOUT
M6.1	MECHANICAL SCHEDULES
M7.1	MECHANICAL DETAILS AND CONTROL SCHEMATIC

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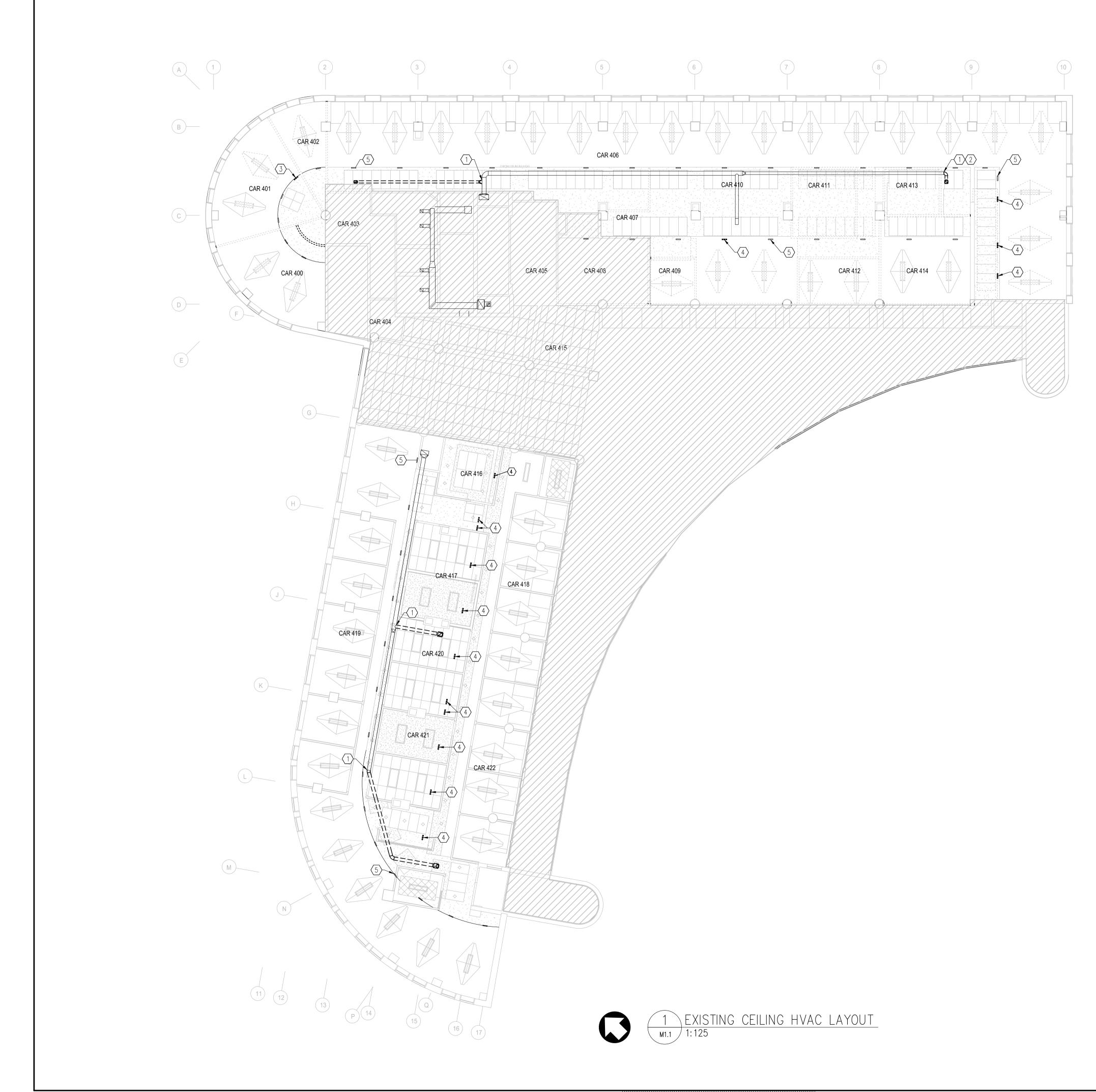
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SYMBOL SCHEDULE:

- RECESSED PENDENT TYPE SPRINKLER HEAD
- HORIZONTAL SIDEWALL TYPE SPRINKLER HEAD
- UPRIGHT TYPE SPRINKLER HEAD
- DENOTES EXISTING TO BE RELOCATED SPRINKLER HEAD
- DENOTES NEW ADDITION SPRINKLER HEAD
- DENOTES RELOCATED SPRINKLER HEAD
- DENOTES EXISTING TO BE REMOVED
- SUPPLY DIFFUSER
- SUPPLY DIFFUSER (ROUND)
- RETURN GRILLE
- STC 45 OR 55 RATED CROSSTALK SILENCER
- SECURITY BAR
- ----- EXISTING DOMESTIC COLD WATER
- – — EXISTING DOMESTIC HOT WATER
- ----- NEW DOMESTIC COLD WATER
- – — NEW DOMESTIC HOT WATER
- EXISTING DUCT
- NEW DUCT



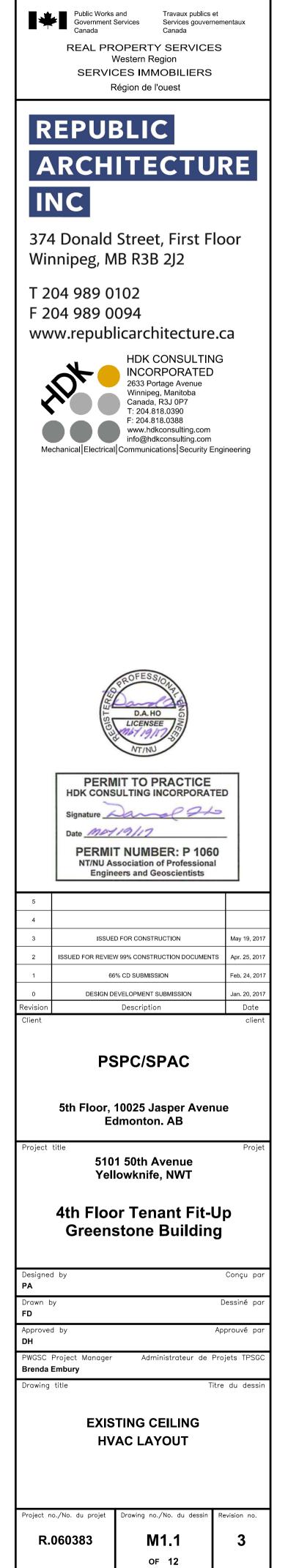
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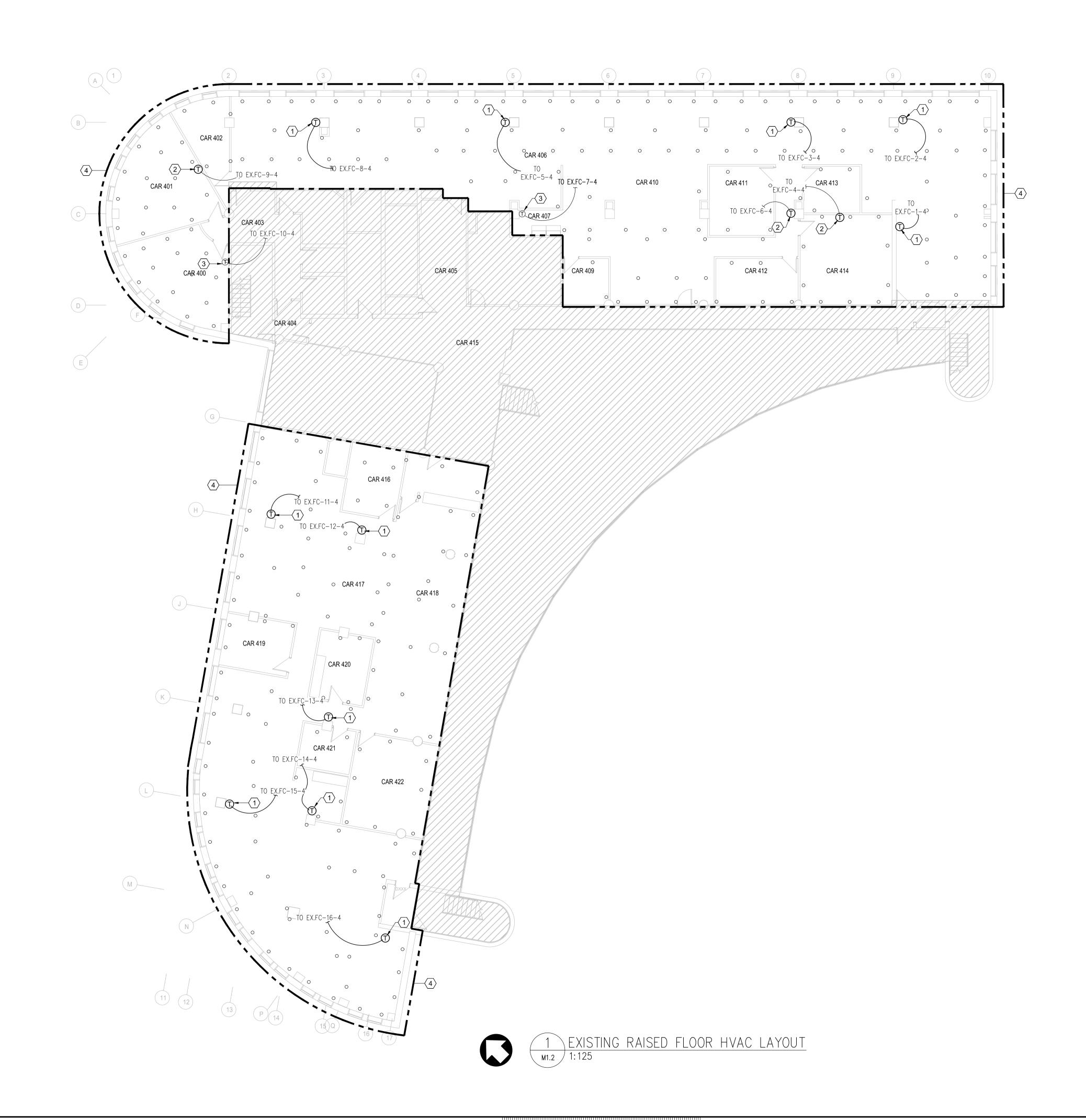


- 1. DO NOT SCALE THIS DRAWING, CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCY TO THE DEPARTMENTAL REPRESENTATIVE.
- 2. THE DRAWING ONLY SHOWS A GENERAL SCHEMATIC OF NEW SYSTEMS. ROUTING OF DUCTWORK AND UNITS LOCATIONS SHALL SUIT SITE CONDITIONS AND MAY HAVE TO BE CHANGED TO AVOID CONFLICTS WITH STRUCTURE, DUCTS AND PIPES. WHEN CONFLICT CANNOT BE AVOIDED, THE DUCTWORK SHALL BE MODIFIED AS REQUIRED.
- 3. CONTRACTOR SHALL INCLUDE FOR AND PROVIDE ALL COORDINATION BETWEEN TRADES AND CONSULTANT ON AND OFF SITE AS REQUIRED FOR INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS, WHERE MINOR REROUTING OF DUCTWORK OR SERVICES IS REQUIRED DUE TO ONSITE CONDITIONS, IT SHALL BE PERFORMED AT NO ADDITIONAL COST.
- 4. COORDINATE ALL GRILLE AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUT.
- CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.

$\langle \# \rangle$ DRAWING NOTES:

- 1. DEMOLISH BACK EXHAUST DIFFUSER AND BRANCH DUCT TO THIS POINT.
- 2. PREPARE AND MODIFY FOR NEW DUCT CONNECTION. REFER TO DRAWING NEW CEILING HVAC LAYOUT FOR NEW LOCATION.
- EXISTING GRILLE TO BE RELOCATED INTO NEW EX-1 OFFICE. EXTEND GRILLE INTO ROOM WITH RIGID DUCTWORK. REFER TO DRAWING NEW CEILING HVAC LAYOUT FOR NEW LOCATION.
- 4. EXISTING GRILLE TO BE RELOCATED INTO THE NEW BULKHEAD. REFER TO DRAWING NEW CEILING HVAC LAYOUT FOR NEW LOCATION.
- 5. EXISTING GRILLES TO REMAIN. TYPICAL.

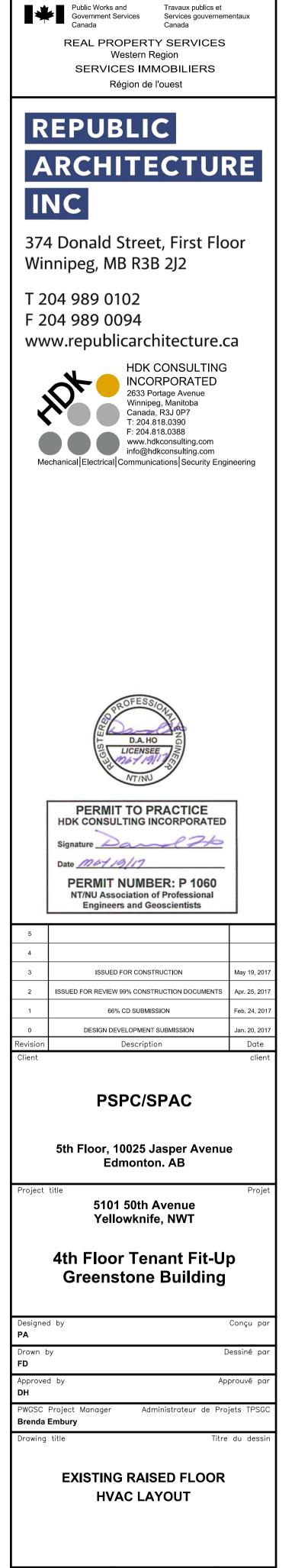




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- 3. CONTRACTOR SHALL INCLUDE FOR AND PROVIDE ALL COORDINATION BETWEEN TRADES AND CONSULTANT ON AND OFF SITE AS REQUIRED FOR INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS, WHERE MINOR REROUTING OF DUCTWORK OR SERVICES IS REQUIRED DUE TO ONSITE CONDITIONS, IT SHALL BE PERFORMED AT NO ADDITIONAL COST.
- 4. COORDINATE ALL GRILLE AND DIFFUSER LOCATIONS WITH FURNITURE LAYOUT.
- 5. CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.

(#) DRAWING NOTES:

- 1. EXISTING FAN COIL THERMOSTAT AND ASSOCIATED WIRING TO BE REMOVED. FAN COIL CONTROL WILL BE BASED ON NEW TERMINAL UNIT THERMOSTATS.
- 2. THERMOSTAT TO BE RELOCATED. EXTEND WIRING AS REQUIRED. REFER TO NEW RAISED FLOOR HVAC LAYOUT FOR NEW LOCATION OF THERMOSTAT.
- 3. EXISTING THERMOSTAT TO REMAIN.
- RELOCATE EXISTING 200Ø ROUND FLOOR DIFFUSERS TO SUIT NEW ROOM LAYOUT. REFER TO RAISED FLOOR – NEW LAYOUT FOR RECOMMENDED LOCATION OF ROUND FLOOR DIFFUSERS. INFORM THE ENGINEER FOR ANY DISCREPANCIES.



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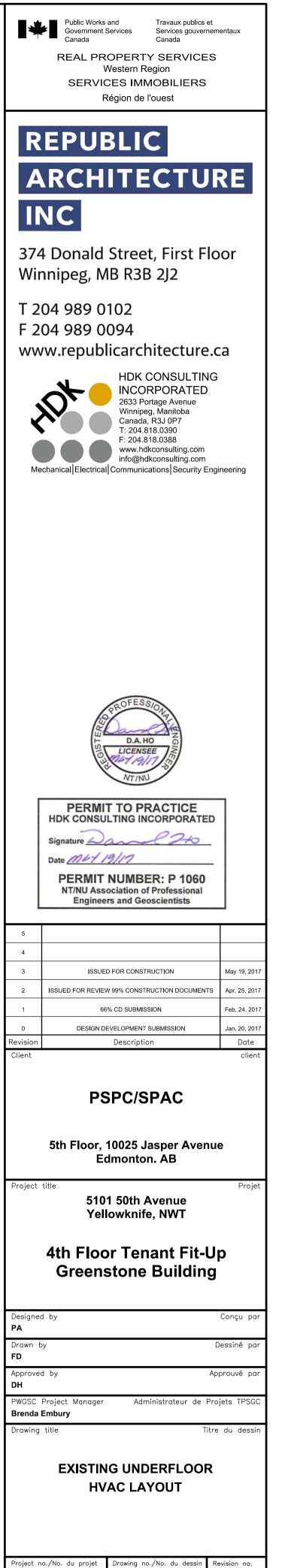
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- 3. CONTRACTOR SHALL INCLUDE FOR AND PROVIDE ALL COORDINATION BETWEEN TRADES AND CONSULTANT ON AND OFF SITE AS REQUIRED FOR INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS, WHERE MINOR REROUTING OF DUCTWORK OR SERVICES IS REQUIRED DUE TO ONSITE CONDITIONS, IT SHALL BE PERFORMED AT NO ADDITIONAL COST.
- 4. COORDINATE ALL GRILLE AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUT.
- 5. CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.

$\langle \# \rangle$ <u>Drawing notes:</u>

- 1. EXISTING AIR SYSTEM DIVIDER TO REMAIN.
- 2. EXISTING AIR SYSTEM DIVIDER TO BE DEMOLISHED.
- 3. EXISTING FAN COIL TO BE RELOCATED. EXTEND OR REDUCE ALL SERVICES REQUIRED SUCH AS DUCT WORK, HYDRONIC PIPING, CONDENSATE PIPING AND CONTROL/ELECTRICAL WIRING. INCLUDING REPAIR OF ALL INSULATION.
- 4. EXISTING FAN COIL TO REMAIN.
- 5. DEMOLISH EXISTING DUCTWORK SHOWN DASHED.
- 6. EXISTING VAV TO BE RELOCATED. REFER TO NEW UNDERFLOOR HVAC LAYOUT FOR NEW LOCATION.

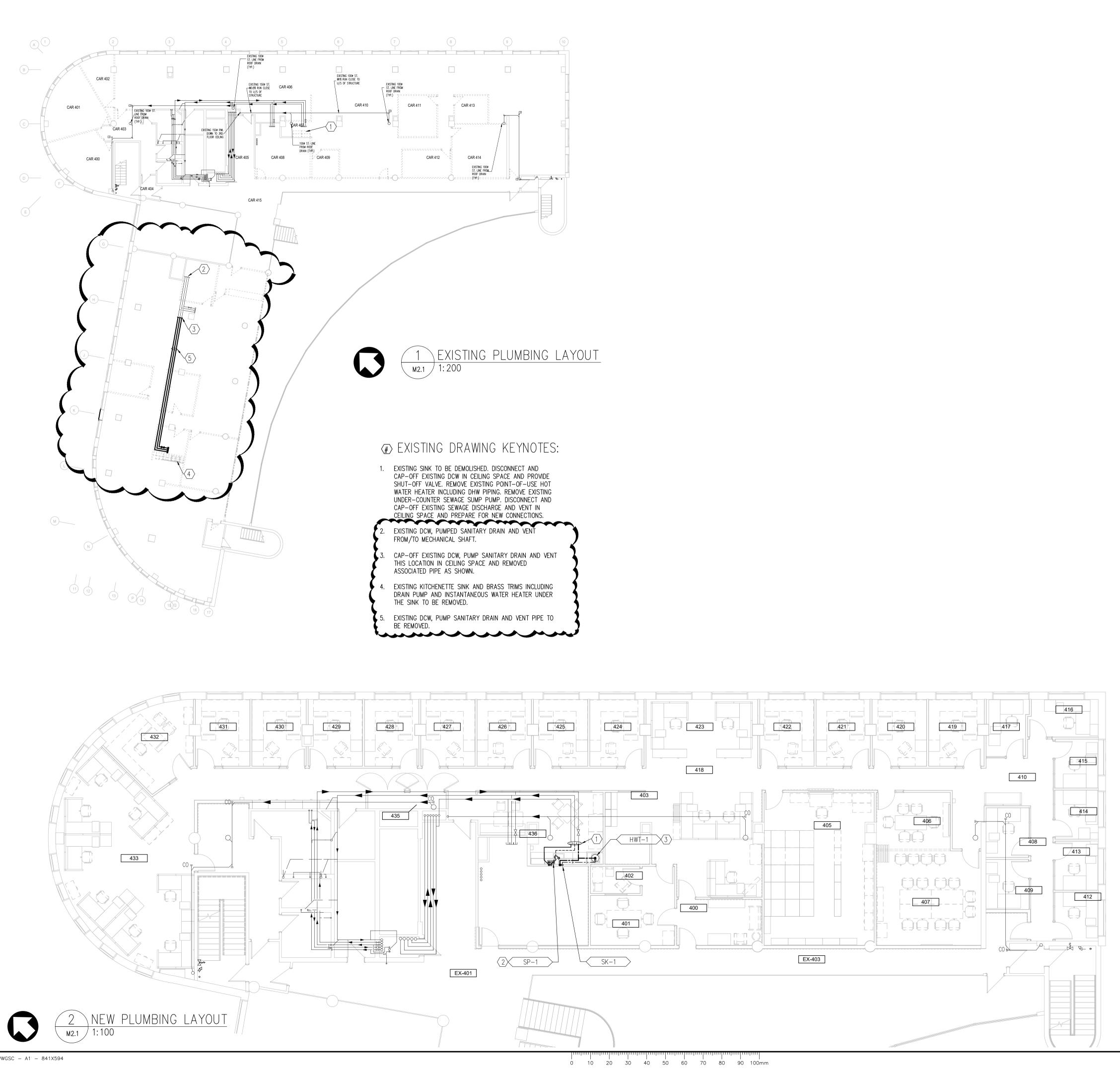


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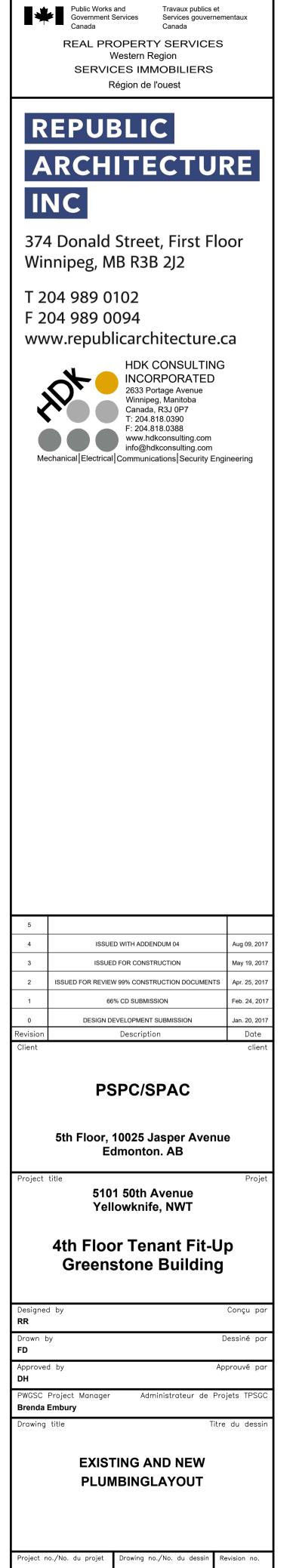
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4. COORDINATE ALL GRILLE AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUT. 5. CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.



NEW CONSTRUCTION ⟨ ■ > DRAWING KEYNOTES:

CONNECT NEW 38mmø SEWAGE PUMP DISCHARGE, 38mmø VENT AND 19mmø DCW TO EXISTING CAPPED-OFF SERVICES RESPECTIVELY. CONTRACTOR TO COORDINATE PIPE ROUTING AND CONFIRM EXACT LOCATION ON SITE.

2. PIPE 38mmø SINK DRAIN TO NEW SEWAGE PUMP. PIPE SEWAGE PUMP DISCHARGE AND VENT UP THROUGH WALL AND RUN IN CEILING SPACE. REFER TO SCHEDULE AND SPECIFICATION FOR MORE INFORMATION OF SEWAGE PUMP. REFER TO ARCHITECTURAL DETAILS.

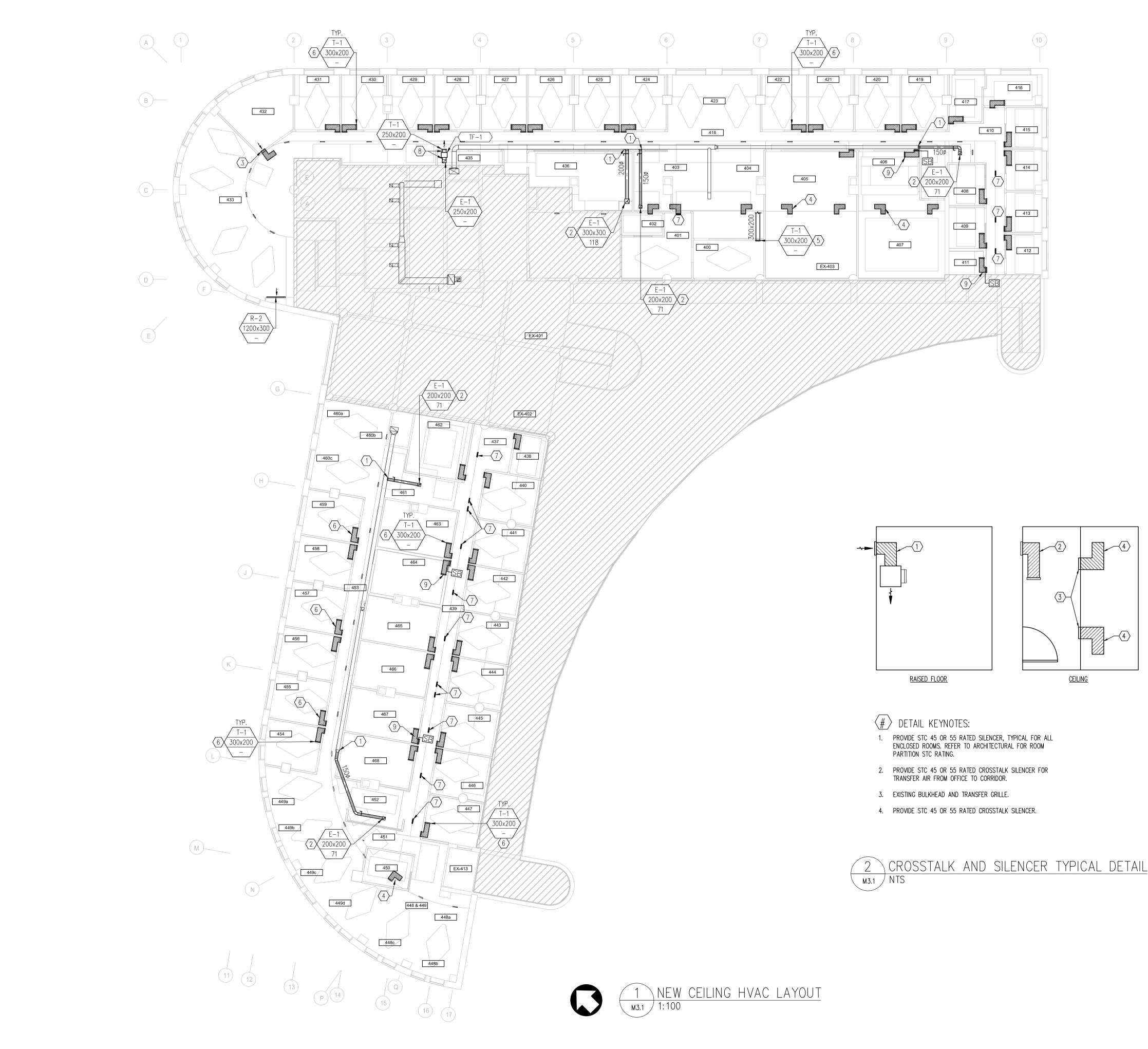
3. NEW ELECTRIC HOT WATER TANK IN CABINET. PROVIDE SUPPORTS AND DRAIN PAN. CONNECT NEW 19mmø DCW AS SHOWN. PIPE DRAIN PAN DIRECTLY TO KITCHEN SINK FIXTURE LEG. REFER TO DETAIL, SCHEDULE AND SPECIFICATION FOR MORE INFORMATION OF HOT WATER TANK. REFER TO ARCHITECTURAL DETAILS.

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M2.1R1

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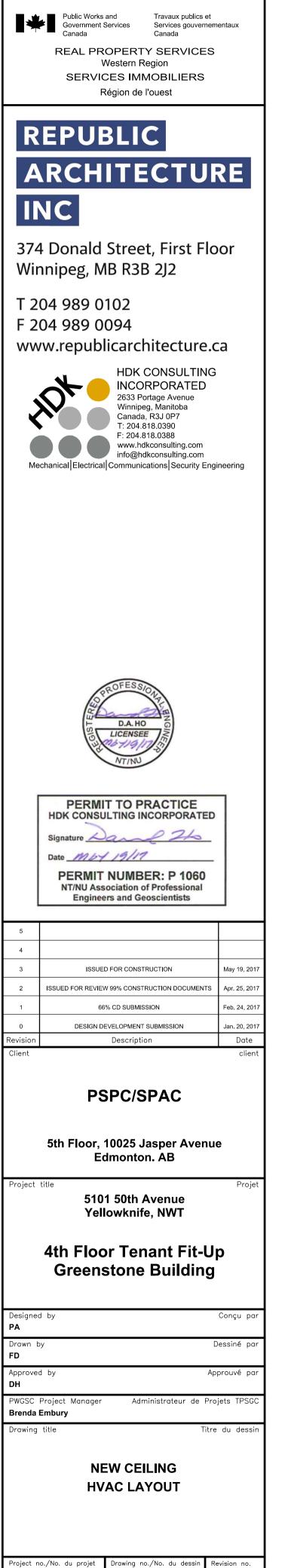
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- 4. COORDINATE ALL GRILLE AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUT.
- 5. CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.

DRAWING KEYNOTES:

- 1. CONNECT NEW EXHAUST DUCT TO EXISTING APPROXIMATELY AT THIS LOCATION.
- 2. PROVIDE NEW EXHAUST GRILLE.
- 3. RELOCATED EXISTING TRANSFER GRILLE IN BULKHEAD TO NEW EX-1 OFFICE. EXTEND WITH RIGID DUCTWORK TO EXISTING GRILLE OPENING.
- 4. NEW 300X200 CROSSTALK SILENCER IN EXISTING BULKHEAD. TYPICAL.
- 5. NEW TRANSFER AIR GRILLE. PROVIDE NEW DUCTWORK AND CONNECT TO EXISTING BULKHEAD.
- 6. TYPICAL CROSS TALK SILENCER TO TRANSFER AIR FROM ENCLOSED ROOMS BACK TO OPEN AREA. 300x200 WITH ACOUSTIC LINING AND T-1 GRILLE ON BOTH ENDS. TYPICAL.
- 7. NEW LOCATION OF GRILLE.
- 8. ACOUSTICALLY LINED 300x200 CROSS TALK SILENCER.
- 9. PROVIDE SECURITY BARS.



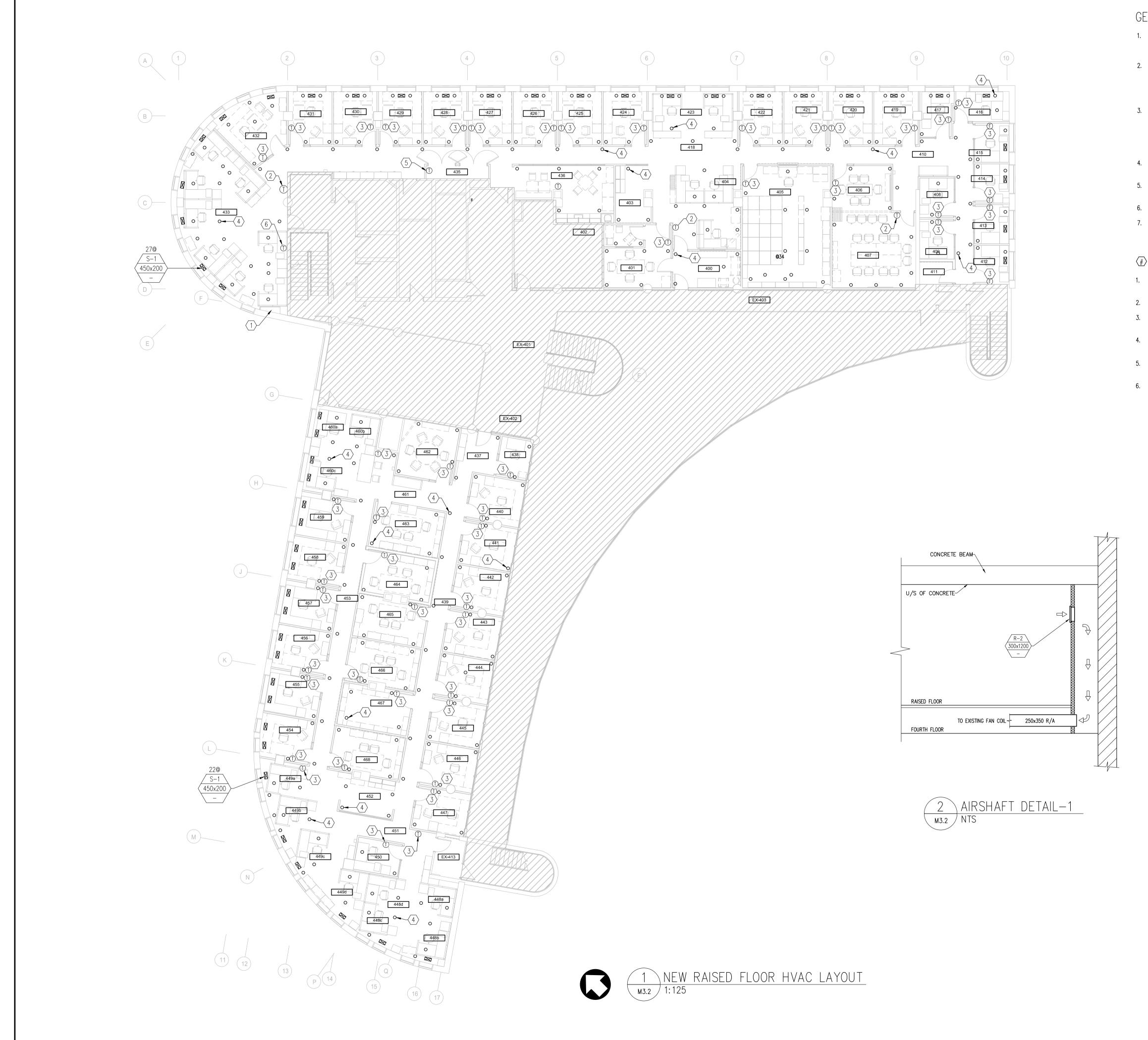
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GENERAL NOTES:

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3. CONTRACTOR SHALL INCLUDE FOR AND PROVIDE ALL COORDINATION BETWEEN TRADES AND CONSULTANT ON AND OFF SITE AS REQUIRED FOR INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS, WHERE MINOR REROUTING OF DUCTWORK OR SERVICES IS REQUIRED DUE TO ONSITE CONDITIONS, IT SHALL BE PERFORMED AT NO ADDITIONAL COST.

4. COORDINATE ALL GRILLE AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUT.

5. CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.

6. ALL DIFFUSERS TO BE CENTERED TO THE FLOOR TILE.

7. GENERAL NOTES FOR THERMOSTAT HEIGHTS @ 1050mm. CENTER LINE.

DRAWING KEYNOTES:

1. RETURN AIR SHAFT FROM RAISED FLOOR TO HIGH LEVEL RETURN GRILLE. SEE DETAIL.

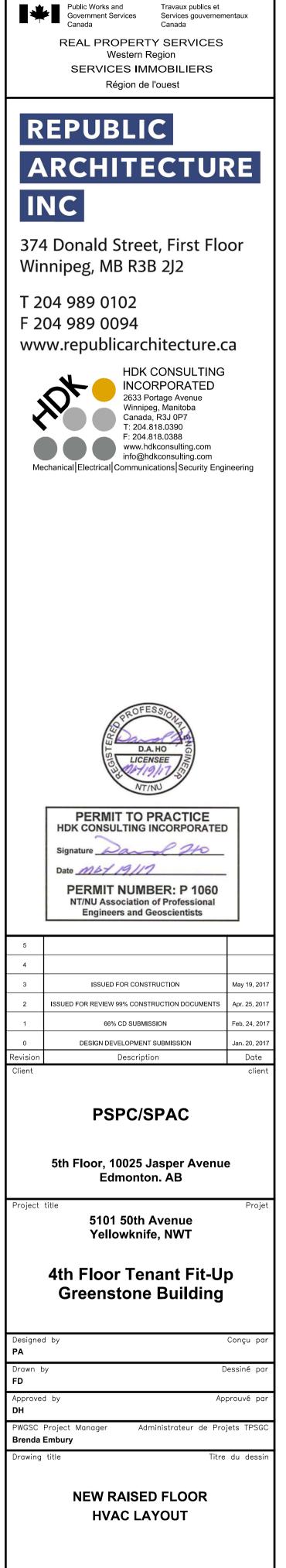
2. NEW LOCATION OF EXISTING THERMOSTAT.

3. FAN POWERED BOX THERMOSTAT LOCATED ON THE WALL AT ACCESSIBLE HEIGHT.

4. NEW LOCATION OF EXISTING ROUND FLOOR DIFFUSERS. TYPICAL.

5. TRANSFER FAN THERMOSTAT LOCATED ON THE WALL AT 48" A.F.F.

6. EXISTING THERMOSTAT.



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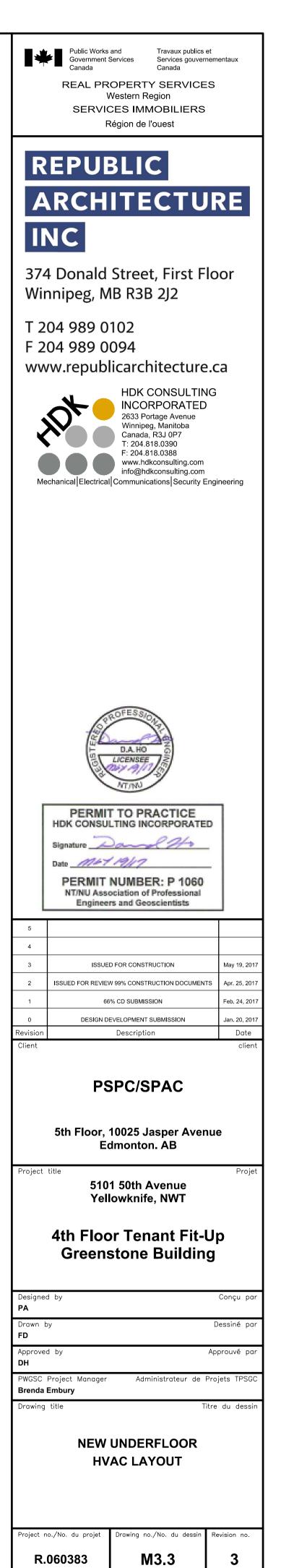
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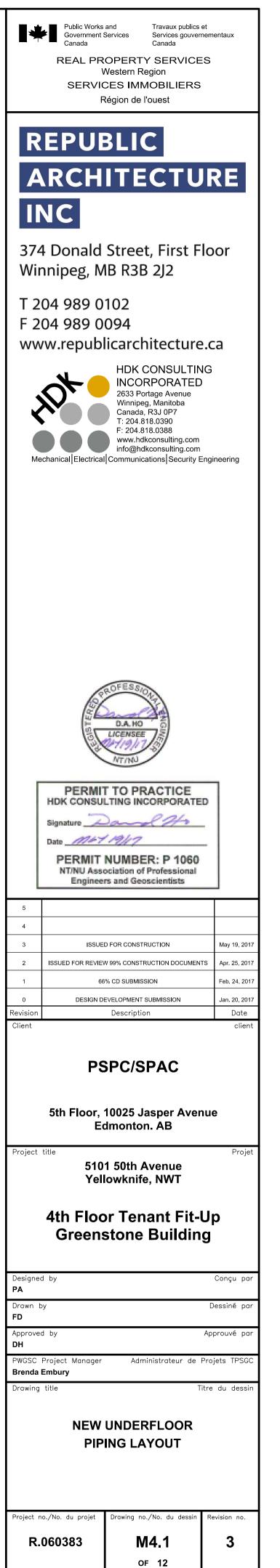


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 COORDINATE ALL GRILLE AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUT.
 CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.







1. SPRINKLER SYSTEM INSTALLATION SHALL STRICTLY CONFORM WITH NFPA 13 AND ALL AUTHORITIES HAVING JURISDICTION.

2. ALL PIPE LOCATIONS TO BE MEASURED ON SITE BY THE FIRE PROTECTION CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION.

3. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER.

4. SPRINKLER MAINS, BRANCHLINES ROUTING AND FINAL LOCATIONS AND HEIGHT OF SPRINKLER HEADS TO BE COORDINATED TO THE EXISTING LOCATIONS OF MECHANICAL EQUIPMENTS AND ROUTING OF DUCTS BY THE FIRE PROTECTION CONTRACTOR.

5. WHERE CEILING HEIGHTS ARE CHANGED, RELOCATE ALL SERVICES AND EQUIPMENT TO SUIT ADJUSTED CEILING HEIGHT. REFER TO ARCHITECTURAL

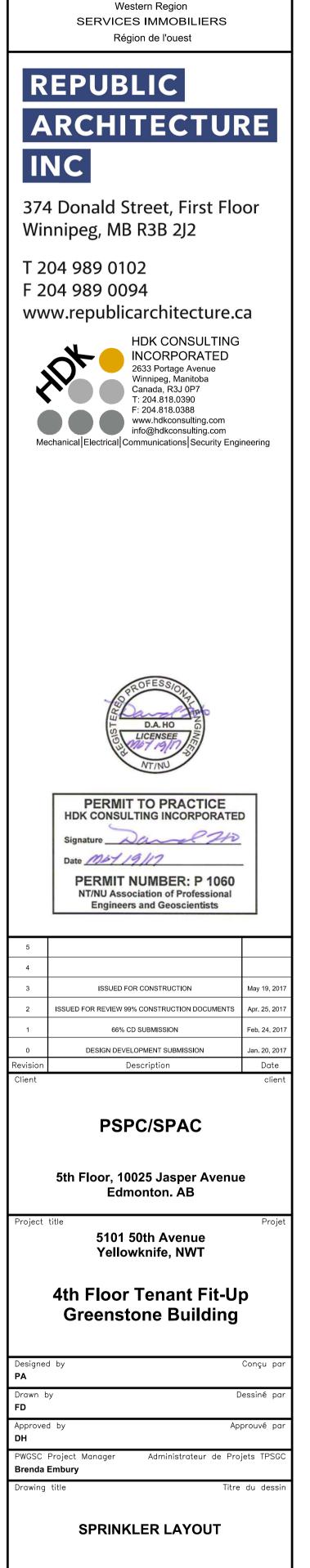
6. ALL SPRINKLER HEADS TO BE REMOVED/RELOCATED SHALL BE REPLACED WITH NEW SPRINKLER HEADS.

7. FIRE EXTINGUISHER TO BE 10Ibs. IN CABINET OR WALL MOUNTED SUPPLIED BY OWNER. CONFIRM WITH ARCHITECT OR OWNER FOR INSTALLATION

8. CAP-OFF ALL SPRINKLER PIPING WHERE SPRINKLER HEADS TO BE DEMOLISHED AND SPRINKLER PIPING THAT WILL NOT BE UTILIZED.

⟨*#*⟩ <u>DRAWING KEYNOTES:</u>

 $\langle 1 \rangle$ EXISTING FIRE EXTINGUISHER TO BE RELOCATED. $\langle 2 \rangle$ NEW LOCATION FIRE EXTINGUISHER (3) NEW 10 LBS. ABC TYPE FIRE EXTINGUISHER. COORDINATE WITH ARCHITECT TYPE OF INSTALLATION.



Travaux publics et Services gouvernementaux

Canada

REAL PROPERTY SERVICES

Public Works and Government Services Canada

TAG S-1 DFLG FL R-1 DFLG FL R-2 510 LOI E-1 EGG CR T-1 510 LOUR ACCESSORIES: DB - DIRT BUCKET

FAN SO	CHEDULE				_							
TAG	MANUFACTURER	TYPE	MODEL	RPM	AIR FLC	W RATE		S.P.		TOR	SONES	ACCESSORIES
170	MANOLACIONEN		MODEL		(L/s)	(CFM)	(Pa)	(in.WC)	(W)	(HP)	OONLO	ACCECCCITES
TF-1	GREENHECK	1	CSP-A410	1,000	113	240	62	0.25	116	FRAC	2.0	SC, SH
FAN TYPE	<u>S:</u>		ITRIFUGAL E AXIAL	R ROOF W WALL		N-LINE Ed flov	l.	CE CEI P PRO	LING EX OPELLEF			NTRIFUGAL UP BLAST ILING FAN
ABBREVIA	<u>ATIONS:</u>	BG AS SC IG BD F E IH TS	BELT GUARD ADJUSTABLE SOLID STATE INLET GRILLE BACKDRAFT [FILTER EPOXY COATI INLET HOOD THERMOSTAT	SPEED CONTROL DAMPER NG		MT NSW SH VP SM WC DS MDW	NON-SP SPRING VIBRATI SPRING WALL C DISCON		VHEEL S /ITCH	L MTD.	SD FC BS MC WH RC AD GN	SCROLL DRAIN FACTORY CURB BIRDSCREEN MOUNTING COLLAR WEATHERPROOF HOUSING ROOF CAP ACCESS DOOR GOOSENECK
<u>NOTES:</u>	1. INSTALL ALL UN APPROVED MANU				TWIN CI	TIES						

	PLUMBING FIXTURE SCHEDULE	WASTE	cw	НW	VENT	I
FIXTURES	SPECIFICATION	IN(mm)	IN (mm)			ALTERNATE MANUFACTURERS
SK-1	FRANKE MMERCIAL #S6810-1P SINGLE BOWL COUNTERTOP MOUNT SINK, 460mm (18-1/8") x 511mm (20-1/8") x 254mm (10") DEEP, COUNTER MOUNTED, NO LEDGE, MOUNTING KIT PROVIDED, FULLY UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, FACTORY APPLIED RIM SEAL. AMERICAN STANDARD #4101.100 ARCH SINGLE CONTROL KITCHEN FAUCET WITH SWIVEL PULL-OUT SPRAY, TOGGLE BUTTON ACTIVATION DECK MOUNTED, CHROME PLATED SOLID CAST BRASS LEAD-FREE BODY, SINGLE LEVER, 1/4 TURN CERAMIC DISC VALVE CARTRIDGES, WITH PRESSURE COMPENSATING 5.7 LPM (1.5GPM) AERATOR OUTLET. ZURN THERMOSTATIC MIXING VALVE MODEL 1070, BRONZE ASTM B 584 W/NICKEL PLATING, INTERNAL BRASS, 1/2" OUTLET CONNECTION, OUTLET TEMPERATURE RANGE OF 95°F-115°F. OPEN GRID DRAIN, CHROME PLATED CAST BRASS ONE PIECE TOP, 17 GA. (1.5mm) TUBULAR 32mm (1-1/4") TAILPIECE, FAUCET SUPPLIES, CHROME PLATED POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10mm (3/8") I.P.S. INLET x 76mm (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEONS AND FLEXIBLE COPPER RISER. P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32mm (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND.	1-1/2" (38)	1/2" (13)	1/2" (13)	1-1/2" (38)	SINK : KOHLER, ELKAY FAUCET : SLO, CHICAGO FAUCETS, KOHLER, DELT,
SP-1	SANIFLO SANIVITE DRAIN WATER PUMP, PRE-ASSEMBLE SYSTEM WITH LOW INLETS AND BUILT-IN CHECK VALVES., HANDLE HOT WATER AND GREASE BUILD-UP. DISCHARGE FLOW RATE OF 18GPM (68LPM) AT 16' (48 kPa). MAXIMUM TEMPERATURE OF 140°F (60°C).	1-1/2" (38)	N/A	N/A	1-1/2" (38)	GRUNDFOS, LITTLE GIANT
HWT-1	DOMESTIC WATER HEATER - WATER HEATER HAVING ELECTRICAL INPUT OF 3kW, 12 GPH RECOVERY RATE AT 100°F TEMPERATUR RISE, STORAGE CAPACITY OF 6 GALLONS. WATER HEATER SHALL HAVE THE CSA SEAL OF CERTIFICATION AND BE FACTORY EQUIPPED WITH A CSA/ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE.	N/A	3/4" (19)	1/2" (13)	N/A	RHEEM RUUD, A.O. SMITH, BRADFO WHITE

DIFFUSER AND GRILLE SCHEDULE (Based on E. H. PRICE)

MODEL	ACCESSORIES	REMARKS
FLOOR SUPPLY GRILLE	OBD, DB	REFER TO DRAWING FOR FACE SIZE, 16 DEGREE DEFLECTION TOWARD EXTERIOR WALL AND 6 MM SPACING
FLOOR RETURN GRILLE	DB	REFER TO DRAWING FOR FACE SIZE, 0 DEGREE DEFLECTION AND 6 MM SPACING
OURVRED return TRILL	-	REFER TO DRAWING FOR FACE SIZE
CRATE RETURN GRILLE	-	REFER TO DRAWING FOR FACE SIZE
IRVRED TRANSFER TRILL	-	REFER TO DRAWING FOR FACE SIZE

OBD - OPPOSED BLADE BALANCING DAMPER

NOTES: 1. PROVIDE BORDER AND FRAME STYLE TO SUIT SURFACE BEING INSTALLED ON.

APPROVED MANUFACTURERS: EH PRICE, TITUS, NAILOR

FAN COIL AND VAV FLOWS (Existing Equipment)					
TAG	Airflow	TAG	Airflow		
	L/S	—	L/S		
FC-1.4	427	VAV-1.4	44		
FC-2.4	251	VAV-2.4	33		
FC-3.4	320	VAV-3.4	70		
FC-4.4	328	VAV-4.4	83		
FC-5.4	427	VAV-5.4	69		
FC-6.4	365	VAV-6.4	81		
FC-7.4	404	VAV-7.4	83		
FC-8.4	538	VAV-8.4	72		
FC-9.4	438	VAV-9.4	277		
FC-10.4	438	VAV-10.4	267		
FC-11.4	550	VAV-11.4	75		
FC-12.4	438	VAV-12.4	70		
FC-13.4	342	VAV-13.4	71		
FC-14.4	430	VAV-14.4	83		
FC-15.4	571	VAV-15.4	71		
FC-16.4	509	VAV-16.4	56		

FAN POWERED TERMINAL UNIT SCHEDULE (Based on EH PRICE)

TAC			UNIT	AIRFLOW RATE		
TAG	AREA SERVED		SIZE			
				(L/s)	(CFM)	
FTU-01	ROOM 432	FDBU SERIES	10	108	229	
FTU-02	ROOM 431	FDBU SERIES	10	108	229	
FTU-03	ROOM 430	FDBU SERIES	10	108	229	
FTU-04	ROOM 429	FDBU SERIES	10	108	229	
FTU-05	ROOM 428	FDBU SERIES	10	108	229	
FTU-06	ROOM 427	FDBU SERIES	10	107	227	
FTU-07	ROOM 426	FDBU SERIES	10	107	227	
FTU-08	ROOM 425	FDBU SERIES	10	107	227	
FTU-09	ROOM 424	FDBU SERIES	10	107	227	
FTU-10	ROOM 422	FDBU SERIES	10	80	170	
FTU-11	ROOM 421	FDBU SERIES	10	80	170	
FTU-12	ROOM 420	FDBU SERIES	10	80	170	
FTU-13	ROOM 419	FDBU SERIES	10	80	170	
FTU-14	ROOM 417	FDBU SERIES	10	75	159	
FTU-15	ROOM 416	FDBU SERIES	10	100	212	
FTU-16	ROOM 415	FDBU SERIES	10	75	159	
FTU-17	ROOM 414	FDBU SERIES	10	100	212	
FTU-18	ROOM 406	FDBU SERIES	10	64	136	
FTU-19	ROOM 408	FDBU SERIES	10	100	212	
FTU-20	ROOM 409	FDBU SERIES	10	64	136	
FTU-21	ROOM 413	FDBU SERIES	10	100	212	
FTU-22	ROOM 412	FDBU SERIES	10	150	318	
FTU-23	ROOM 401, ROOM 402	FDBU SERIES	10	80	170	
FTU-24	OPEN WORKSTATION (SOUTH)	FDBU SERIES	10	130	276	
FTU-25	ROOM 459	FDBU SERIES	10	130	276	
FTU-26	ROOM 458	FDBU SERIES	10	130	276	
FTU-27	ROOM 457	FDBU SERIES	10	130	276	
FTU-28	ROOM 456	FDBU SERIES	10	140	297	
FTU-29	ROOM 455	FDBU SERIES	10	140	297	
FTU-30	ROOM 454	FDBU SERIES	10	140	297	
FTU-31	OPEN WORKSTATION - 448d	FDBU SERIES	10	140	297	
FTU-32	ROOM 450	FDBU SERIES	10	80	170	
FTU-33	OPEN WORKSTATION - 448d	FDBU SERIES	10	120	254	
FTU-34	ROOM 447	FDBU SERIES	10	300	636	
FTU-35	ROOM 446	FDBU SERIES	10	120	254	
FTU-36	ROOM 468	FDBU SERIES	10	90	191	
FTU-37	ROOM 445	FDBU SERIES	10	120	254	
FTU-38	ROOM 467	FDBU SERIES	10	90	191	
FTU-39	ROOM 444	FDBU SERIES	10	90	191	
FTU-40	ROOM 466	FDBU SERIES	10	90	191	
FTU-41	ROOM 443	FDBU SERIES	10	90	191	
FTU-42	ROOM 465	FDBU SERIES	10	90	191	
FTU-43	ROOM 442	FDBU SERIES	10	90	191	
FTU-44	ROOM 464	FDBU SERIES	10	90	191	
FTU-45	ROOM 441	FDBU SERIES	10	90	191	
FTU-46	ROOM 463	FDBU SERIES	10	90	191	
FTU-47	ROOM 440	FDBU SERIES	10	90	191	
FTU-48	ROOM 438	FDBU SERIES	10	90	191	
FTU-49	ROOM 462	FDBU SERIES	10	90	191	
			+	~~	101	

NOTES:

1. COMPLETE WITH ECM FOR VARIABLE AIR FLOW. 2. COORDINATE CONTROLS WITH CONTROLS CONTRACTOR. INTEGRATE WITH EXISTING BMS. BMS SYSTEM TO POLE ALL FTU THERMOSTATS SERVED BY A SINGLE FAN COIL TO DETERMINE IF FANCOIL SHOULD BE IN HEATING OR COOLING. BMS SYSTEM TO POLE ALL FTU CO2 SEBSORS SERVED BY A SINGLE VENTILATON VAV BOX TO CONTROL VENTILATION AIR. 3. THERMOSTATS TO HAVE INTERGRAL CO2 SENSOR FOR CONTROL OF VENTILATION IR VAV BOXES. MOUNT ALL THERMSTATS AT ACCESSIBLE HEIGHTS.

ACCEPTABLE MANUFACTURERS: EH PRICE, TITUS, NAILOR.



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PERMIT TO PRACTICE HDK CONSULTING INCORPORATED Signature Dand 210 Date _______ PERMIT NUMBER: P 1060 NT/NU Association of Professional Engineers and Geoscientists

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4		
3	ISSUED FOR CONSTRUCTION	May 19, 2017
2	ISSUED FOR REVIEW 99% CONSTRUCTION DOCUMENTS	Apr. 25, 2017
1	66% CD SUBMISSION	Feb. 24, 2017
0	DESIGN DEVELOPMENT SUBMISSION	Jan. 20, 2017
Revision	Description	Date
Client		client

PSPC/SPAC

5th Floor, 10025 Jasper Avenue Edmonton. AB

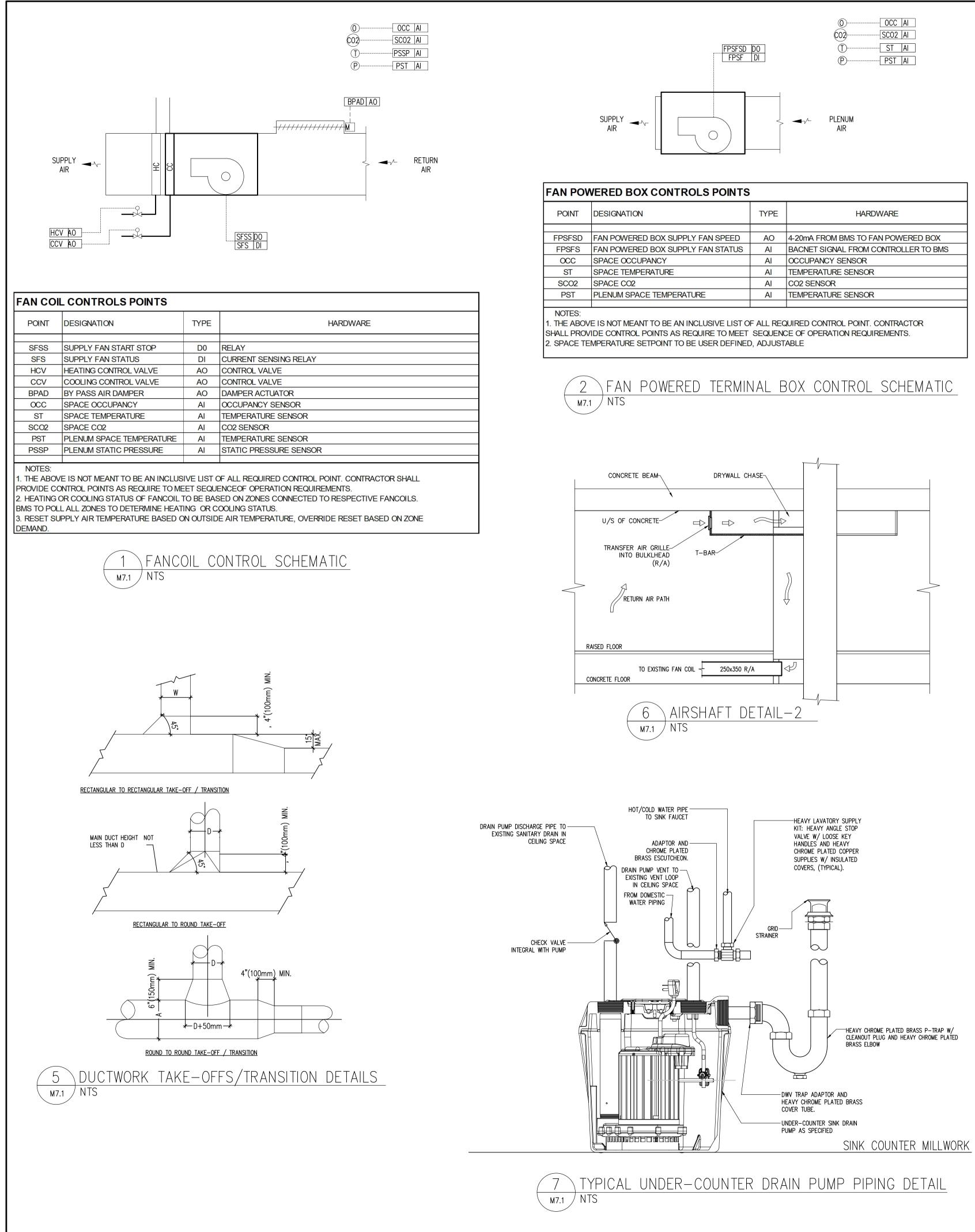
5101 50th Avenue Yellowknife, NWT

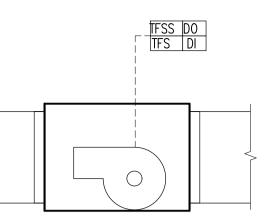
Project title

4th Floor Tenant Fit-Up Greenstone Building

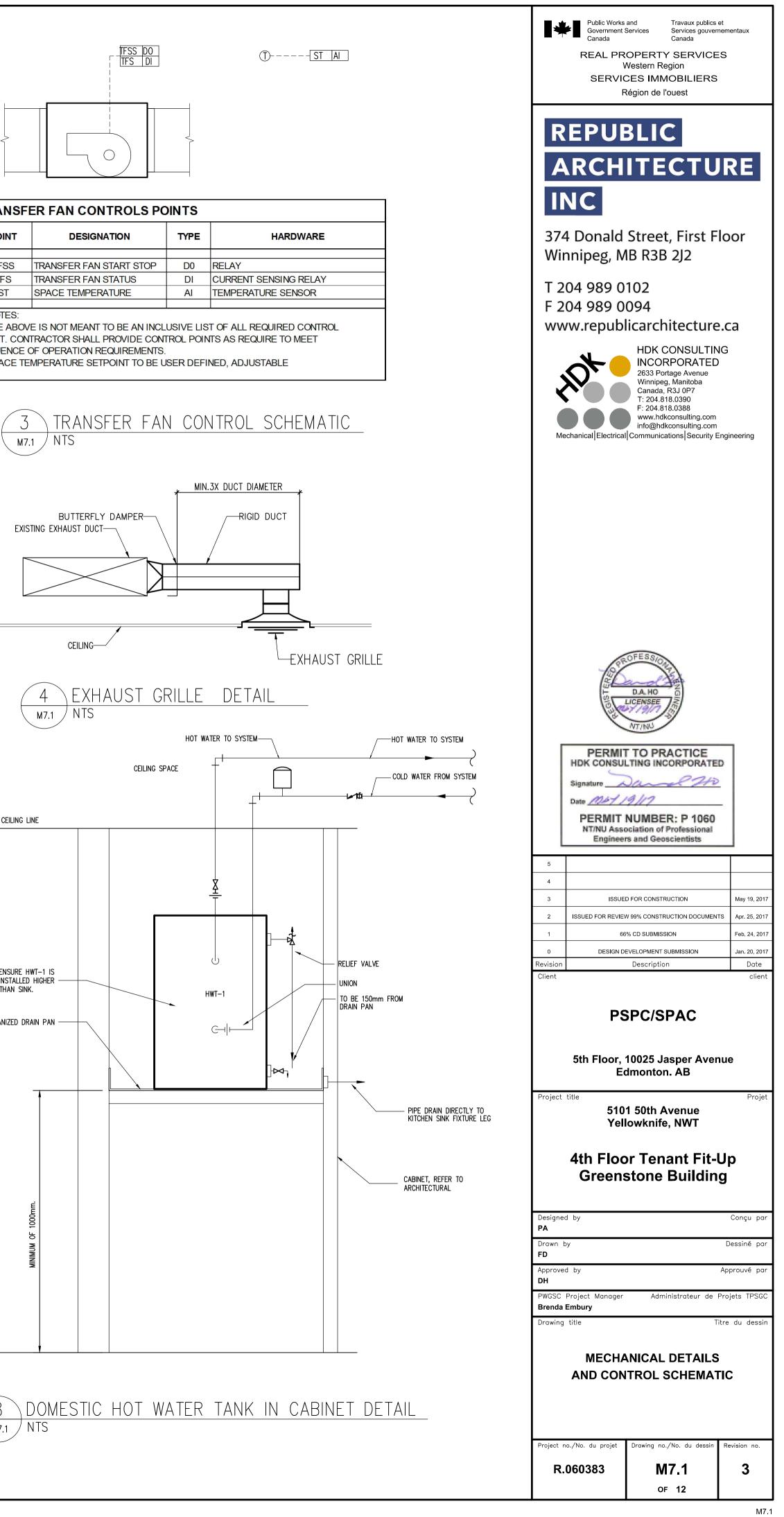
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ΡΑ					
Drawn by	Dessiné par				
FD					
Approved by	Approuvé par				
DH					
PWGSC Project Manager	Administrateur de Projets TPSGC				
Brenda Embury					
Drawing title	Titre du dessin				
MECHANICAL SCHEDULES					

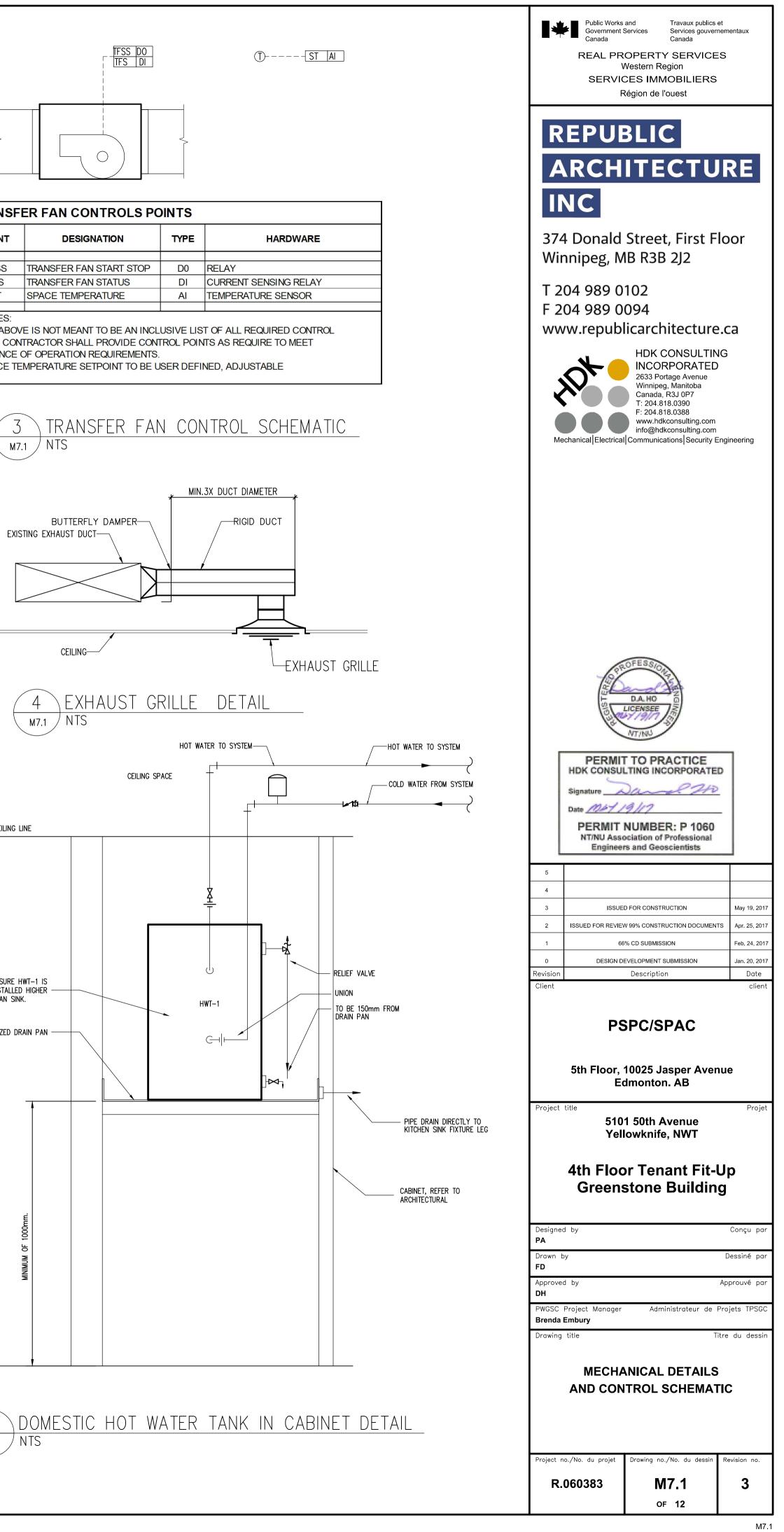
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.060383	M6.1 of 12	3

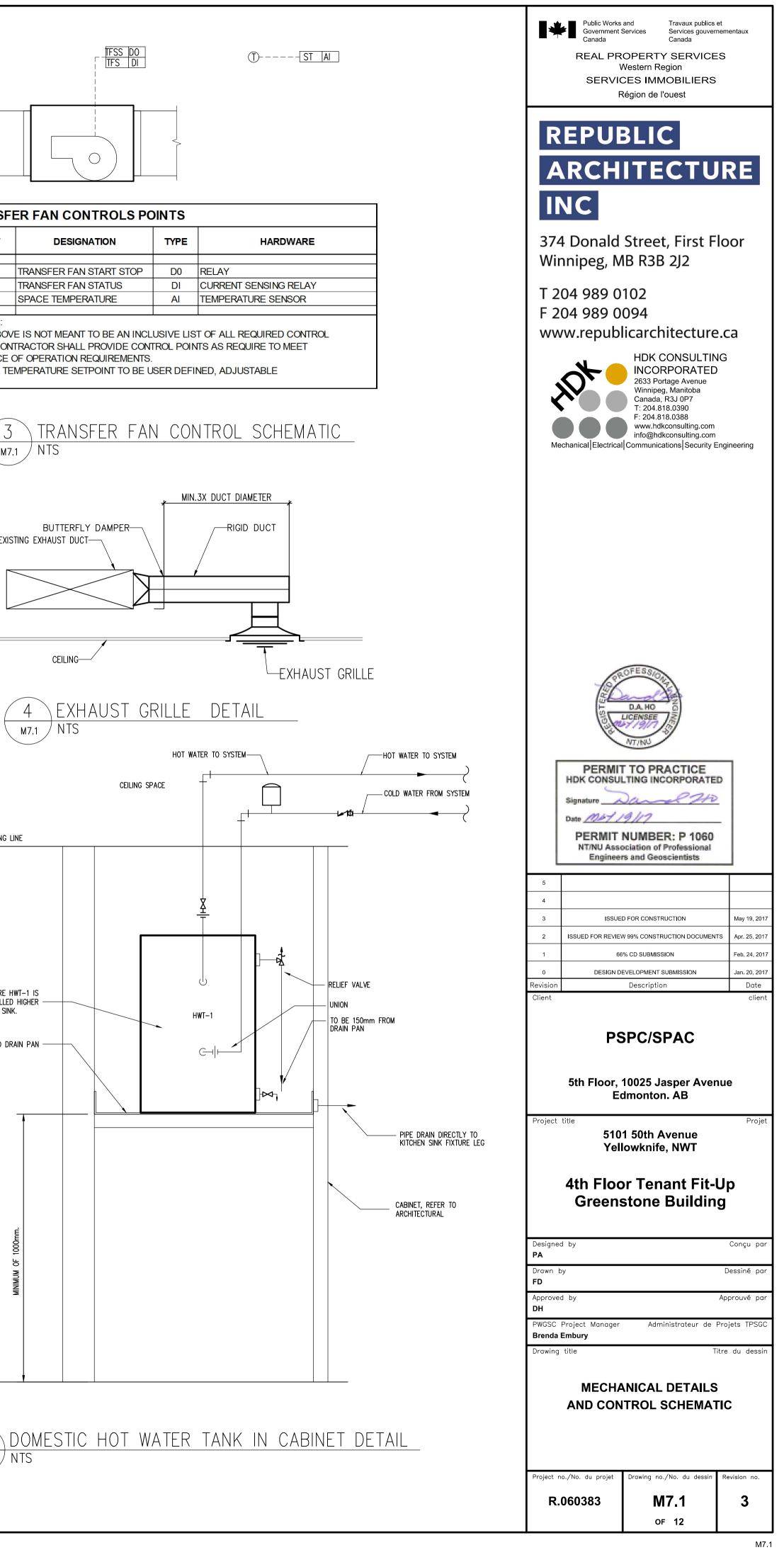


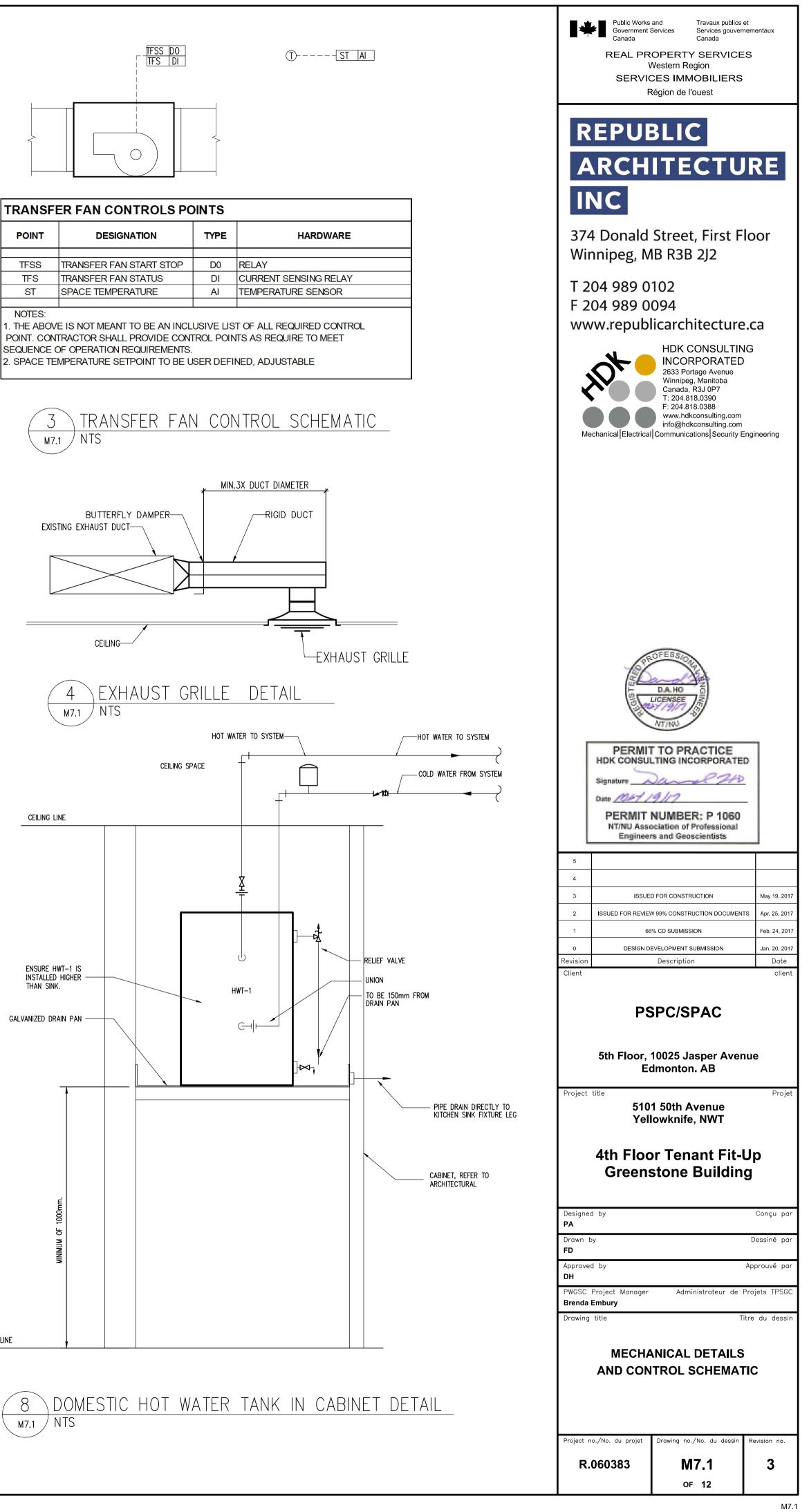


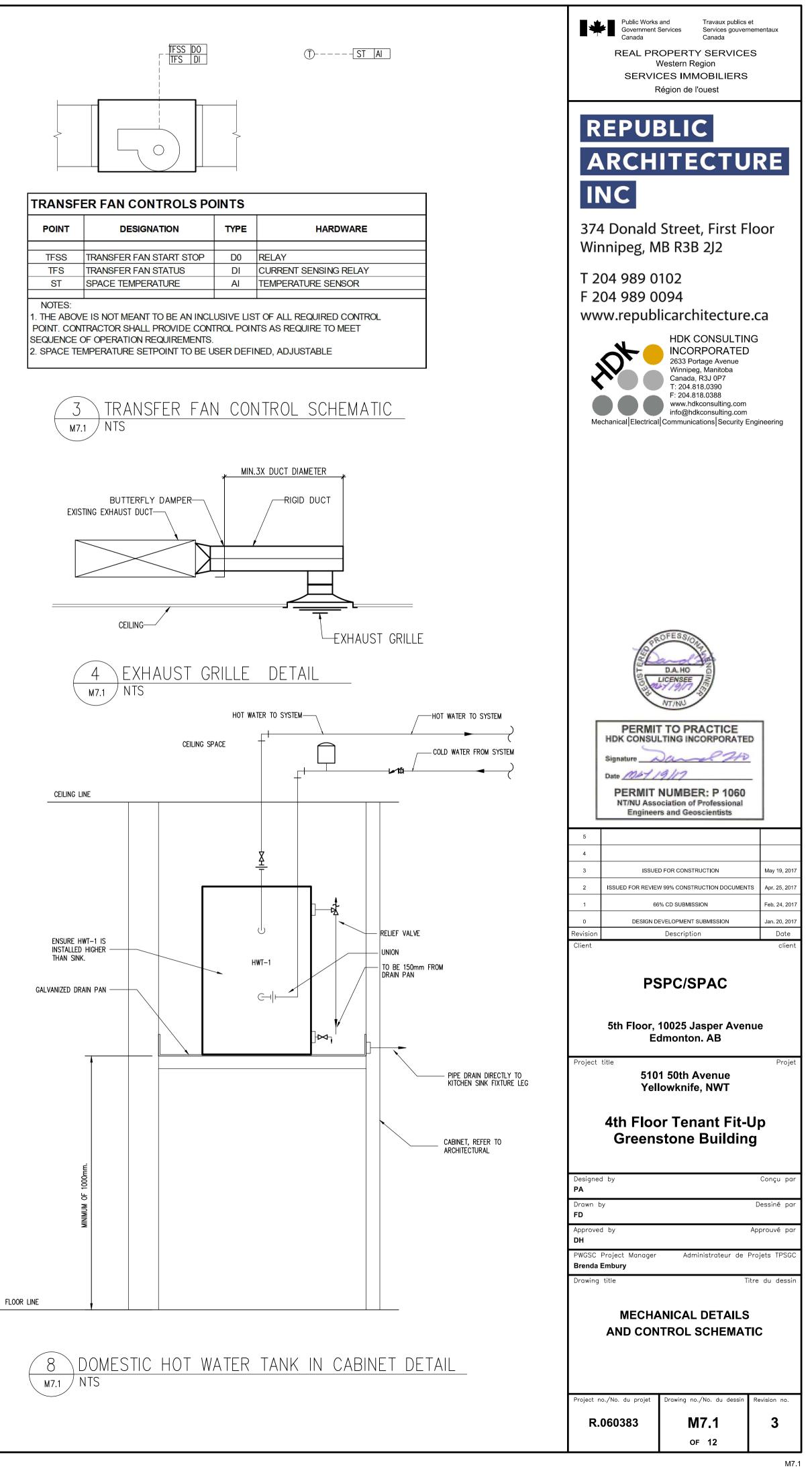
POINT	DESIGNATION	TYPE	
TFSS	TRANSFER FAN START STOP	D0	RELAY
TFS	TRANSFER FAN STATUS	DI	CURRENT SE
ST	SPACE TEMPERATURE	AI	TEMPERATU

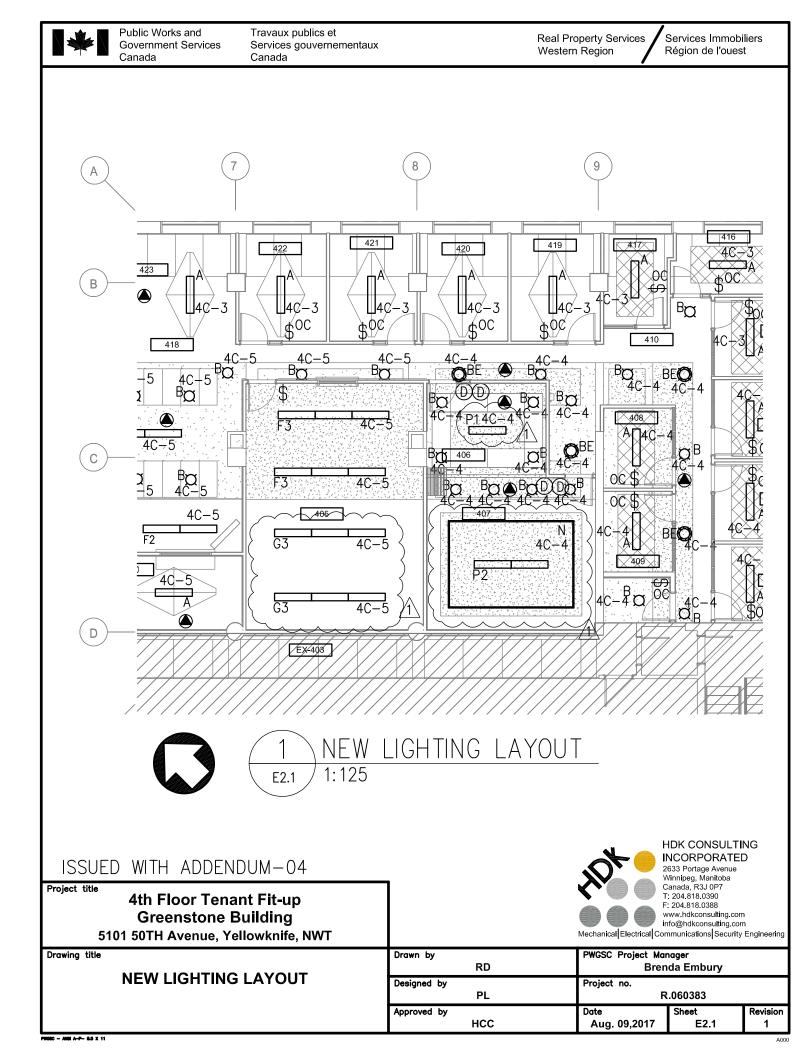












TYPE	MANUFACTURER	CATALOGUE NUMBER	LAMPS	WATTS	LUMINAIRE STYLE	VOLTAGE		
	PHILIPS	FSI-4-55L-835-120-DIM		45W				
М	LITHONIA	ZL1D-L48-5000LM-FST-120-35K-80CRI-WH	LED 3500K	42W	LINEAR SURFACE	120V		
\frown	COOPER	4SNLED-LD4-49SL-LN-UNV-L835-CD1		46W				
N	CIRCUIT STRIP. STRIP METER. STRIP BACK 1 SURFACE MOUNT 45° LENS. MINIMUM CHAN 25mm. CHANNELS	VOLTAGE, THIN AND FLEXIBLE, IP20 DRY LOCATION RATED LED CAN BE CUT EVERY TWO INCHES. MINIMUM 1800 LUMENS PER TO BE COMPLETE WITH TWO SIDED TAPE. LUMINAIRE TO BE C/W ANODIZED ALUMINUM CHANNEL AND FROSTED POLYCARBONATE NEL LENGTH TO BE 1200mm. MAXIMUM CHANNEL WIDTH TO BE AND LENSES TO BE STAGGERED UPON INSTALLATION. POWER BE 24VDC, 300W MAGNETIC LOW VOLTAGE DIMMABLE.	LED 3500K	18W/M	COVE LIGHT	120V		
	LUMACELL	LAE-1-TA-ACD			2.5W			
E-1	BEGHELLI	OT-RM-L-WC-I-OLR-BA		2.0W	PICTOGRAM EGRESS SIGN	120V-347V		
	AIMLITE	RPEL-U-BSH-NDC-CCWH		2.8W				
	LUMACELL	LAE-2-TA-ACD	LED	2.5W	PICTOGRAM EGRESS SIGN			
E-2	BEGHELLI	OT-RM-L-WC-2-OLR-BA		2.0W			120V-347V	
	AIMLITE	RPEL-U-BSH-NDC-CCWH		2.8W				
	AXIS	B2SQDLED-750-80-35-50-12-AP-120-DP-1-XX	LED 3500K	89.1W	SUSPENDED 120V DIRECT/INDIRECT		\square	
G3	METALUMEN	RM2D-1L35-12-M-SA-L3-1-XX-120				120V		
	ARCHITECTURAL LIGHTING WORKS	LP2SD-12-MED/3500K-0/10V/10%-EXT/R-AL-120		121.2W				
	AXIS	ZELED-SL65/35-1100-80-35-MS0-4-AP-UNV-MD-1-CA36		40W	SUSPENDED 120V DIRECT/INDIRECT			
P1	FLUXWERX	FD1-B-F-D-35-A-04-D-EI-M-03	LED 3500K	D 3500K 38W DI		120V		
	LUMENWERX	CAVCPDI-OP-RLO-LED-80-500-750-35-4-120-DI-I- 53WAC36-AL		48W				
	AXIS	ZELED-SL65/35-1100-80-35-MSO-8-AP-UNV-MD-1-CA36		80W				
	FLUXWERX	FD1-B-F-D-35-A-08-D-EI-M-03	LED 3500K	76W	SUSPENDED DIRECT/INDIRECT	120V		
	LUMENWERX	CAVCPDI-OP-RLO-LED-80-500-750-35-8-120-DI-I- 53WAC36-AL		96W				

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HDK CONSULTING INCORPORATED 2633 Portage Avenue Winnipeg, Manitoba Canada, R3J 0P7 T: 204.818.0390 F: 204.818.0388 www.hdkconsulting.com info@hdkconsulting.com		PROJECT: PROJECT NUMBER: DATE: SUBJECT:					
CONTRACTOR SIG	M-IN AUGUST 3	3,2017					
	COMPANY CLARK BULDOR RYEM ELECTRIC Ryfan Electric Arcan Const. DT Electric G S M Capital City Coust Acck Bulders Rowds						