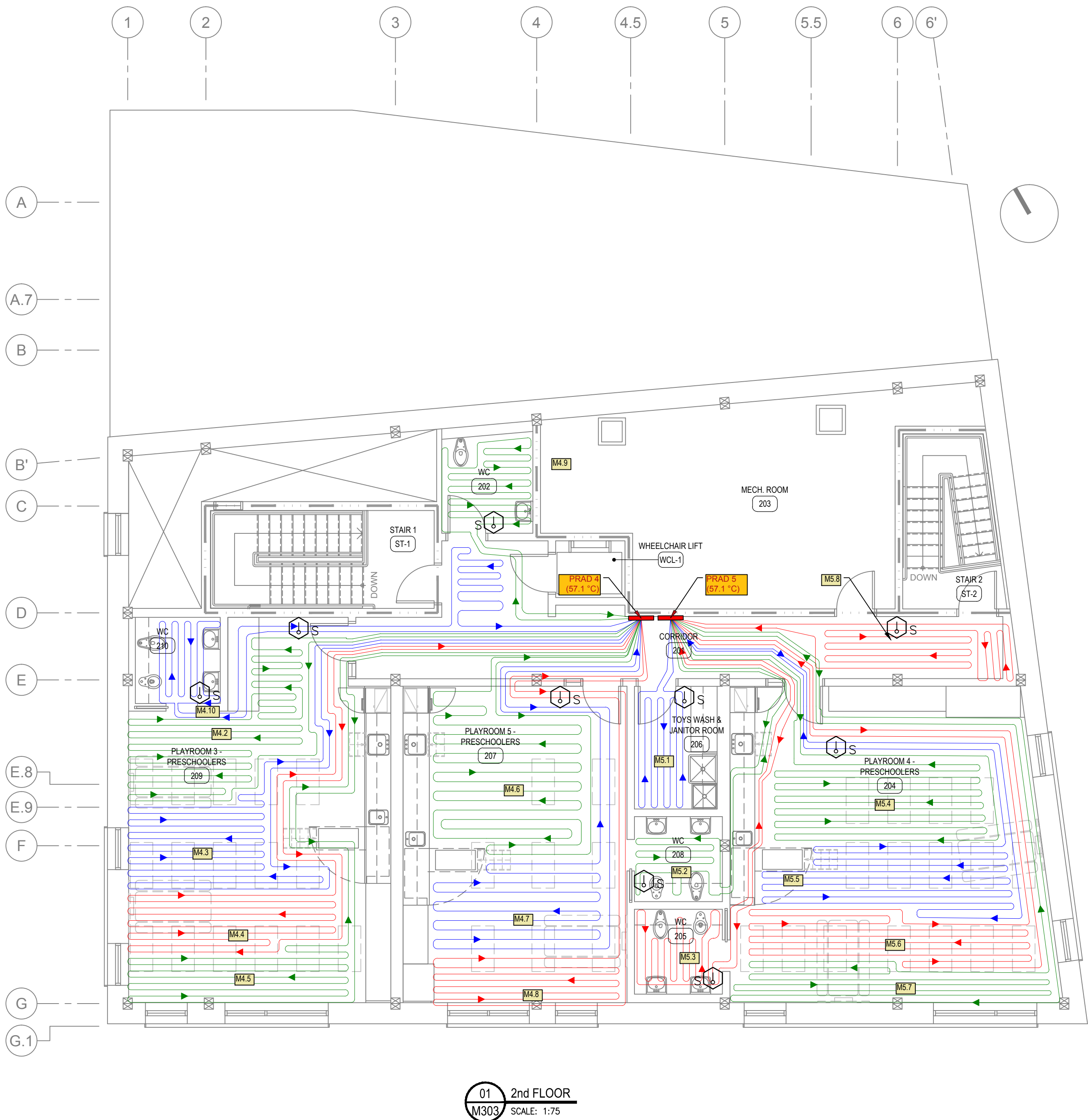


Zones			
Name	Area (m2)	# Circuit	Total load (kW)
Zone 201	94,9	4	6,98
Zone 202	35,9	2	1,70
Zone 205	10,0	2	0,68
Zone 206	6,5	1	0,31
Zone 207	60,5	4	4,85
Zone 209	55,5	4	6,59
Zone 210	31,3	0	2,99
Zone 211	11,0	0	0,97

Circuit information									
Number	Lenght (mm)	Manifold	Tube size (mm)	Flow (L/s)	Head loss (m water)	Total Load (kW)	Velocity (m/s)	Fluid	Coil-Lenght (mm)
M4.2	7 290	PRAD 4	13	8,56	1,555	1,35	0,27	50% Propylene Glycol	
M4.3	7 061	PRAD 4	13	7,61	1,220	1,18	0,24	50% Propylene Glycol	
M4.4	7 036	PRAD 4	13	7,77	1,250	1,21	0,24	50% Propylene Glycol	
M4.5	7 061	PRAD 4	13	9,67	1,890	1,48	0,34	50% Propylene Glycol	
M4.6	6 325	PRAD 4	13	9,83	1,738	1,54	0,34	50% Propylene Glycol	
M4.7	5 512	PRAD 4	13	7,93	1,006	1,22	0,27	50% Propylene Glycol	
M4.8	5 639	PRAD 4	13	6,18	0,762	0,96	0,21	50% Propylene Glycol	
M4.9	3 531	PRAD 4	13	4,12	0,335	0,63	0,15	50% Propylene Glycol	
M4.10	4 928	PRAD 4	13	5,23	0,579	0,75	0,18	50% Propylene Glycol	
M5.1	2 388	PRAD 5	13	2,54	0,122	0,39	0,09	50% Propylene Glycol	
M5.2	3 099	PRAD 5	13	2,54	0,183	0,42	0,09	50% Propylene Glycol	
M5.3	3 785	PRAD 5	13	4,60	0,366	0,72	0,15	50% Propylene Glycol	
M5.4	7 214	PRAD 5	13	8,08	1,402	1,30	0,27	50% Propylene Glycol	
M5.5	7 442	PRAD 5	13	8,56	1,616	1,36	0,27	50% Propylene Glycol	
M5.6	7 290	PRAD 5	13	7,61	1,280	1,21	0,24	50% Propylene Glycol	
M5.7	7 341	PRAD 5	13	8,56	1,585	1,35	0,27	50% Propylene Glycol	
M5.8	3 988	PRAD 5	13	2,85	0,274	0,48	0,09	50% Propylene Glycol	

Manifolds												
Name	Manifold type	# Circuits	Tubing size	Supply Temp (°C)	Total Flow (L/s)	Headloss (m water)	Total Load (kW)	S/R Lenght (mm)	S/R Head Loss (m water)	S/R Type	Required Temp (°C)	# Actuators
PRAD 4	Zone	9	13	51,7	66,9	2,5	10,31	635	0,274	Steel, Schedule 40, 1"	51,1	9
PRAD 5	Zone	8	0	51,7	45,5	2,0	7,23	635	0,152	Steel, Schedule 40, 1"	50,6	8



SPECIFIC NOTES:

1. ALL SIZING OF INFLOOR RADIANT HEATING SHALL BE DESIGNED CALCULATED BY THE MANUFACTURER. THE CALCULATIONS SHALL BE SIGNED BY AN ENGINEER.

0	ISSUED FOR TENDER	2016-03-16
Revision	Description	Date
Client		client

**Indigenous and Northern
Affairs Canada**

**Public Works and Gouvernment
Services Canada**

Project title Projet

NEW IQALUIT DAYCARE

Designed by Conçu par
M.B.

Drawn by Dessiné par
J.F.

Approved by Approuvé par
M.B.

PWGSC Project Manager Administrateur de Projets TFSGC
Russell Knister

Drawing title Titre du dessin

MECHANICAL

**INFLOOR RADIANT HEATING
AND CONTROLS**

2nd FLOOR

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
648139	M303	0
	11 OF 22	