

DISCLAIMER:
Note: Details of the tubing bend radius have been simplified for clarity. Consult tubing manufacturer for specific bend radius recommendations.

PROJECT:
Broomhill CC

CUSTOMER:

PROJECT NO.:
010315-1

SCALE:
1:50

DRAWING NAME:
P1 (Ground Floor)

DRAWN BY:
Antony Harper

Created Using LoopCAD 2016 16.0.0080 (10/12/2016)

DATE:
3/1/2015

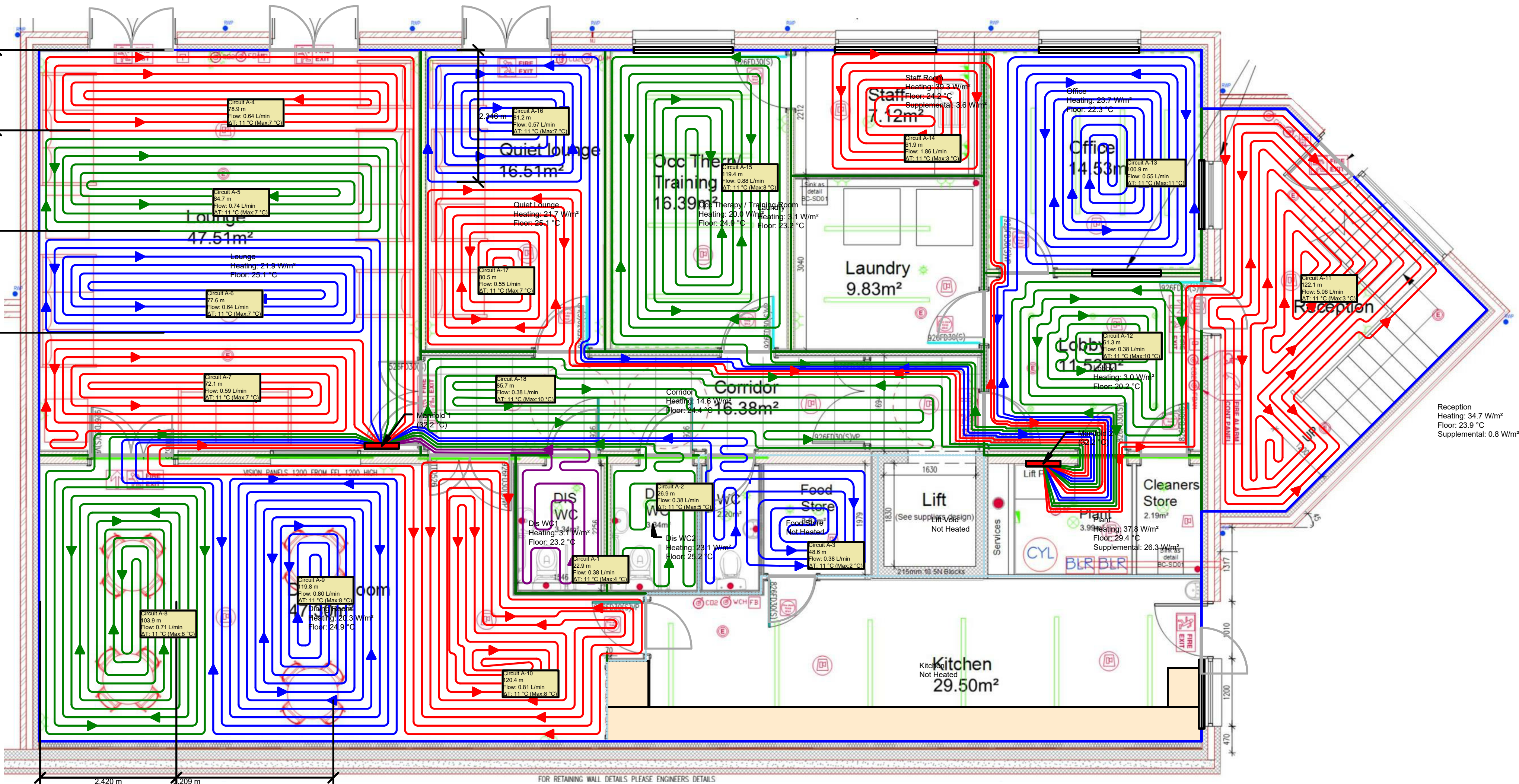
REVISIONS

No	Desc	Date



Circuit Information					
Number	Length (m)	Manifold	Flow (L/min)	Headloss (kPa)	Total Load (W)
A-1	22.9	Manifold 1	0.38	0.2	30
A-2	26.9	Manifold 1	0.38	0.3	112
A-3	48.6	Manifold 1	0.38	0.5	28
A-4	78.9	Manifold 1	0.64	1.5	302
A-5	84.7	Manifold 1	0.74	2.1	345
A-6	77.6	Manifold 1	0.64	1.5	298
A-7	72.1	Manifold 1	0.59	1.2	278
A-8	103.9	Manifold 1	0.71	2.4	370
A-9	119.8	Manifold 1	0.80	3.4	419
A-10	120.4	Manifold 1	0.81	3.5	424
A-11	122.1	Manifold 2	5.06	86.2	931
A-12	61.3	Manifold 2	0.38	0.6	63
A-13	100.9	Manifold 2	0.55	1.6	397
A-14	61.9	Manifold 2	1.86	7.6	323
A-15	119.4	Manifold 2	0.88	4.0	447
A-16	81.2	Manifold 2	0.57	1.3	253
A-17	80.5	Manifold 2	0.55	1.2	246
A-18	85.7	Manifold 2	0.38	0.9	243

Rooms			
Name	Area (m²)	Zone	Total Load (W)
Corridor	17.2	Zone 101	338
Dining Room	46.5	Zone 101	1,170
Dis WC1	3.6	Zone 101	27
Dis WC2	3.6	Zone 101	103
Food Store	6.6	Zone 101	0
Kitchen	27.9	Zone 101	0
Laundry	10.1	Zone 101	75
Lift Void	3.7	Zone 101	0
Lobby	11.8	Zone 101	76
Lounge	47.4	Zone 101	1,270
Occ Therapy / Training Room	16.8	Zone 101	418
Office	14.5	Zone 101	405
Plant	7.7	Zone 101	312
Quiet Lounge	16.7	Zone 101	444
Reception	22.5	Zone 101	878
Staff Room	7.1	Zone 101	312



Manifolds					
Name	# Circuits	SupplyTemp (°C)	TotalFlow (L/min)	Headloss (kPa)	TotalLoad (W)
Manifold 1	10	32	6.06	6.5	2,606
Manifold 2	8	32	10.24	89.2	2,903

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PROJECT:
Broomhill CC

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PROJECT NO.:
010315-1

SCALE:
1:50

DRAWING NAME:
P2 (First Floor)

DRAWN BY:
Antony Harper

Created Using LoopCAD 2016 16.0.0080 (10/12/2016)

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3/1/2015

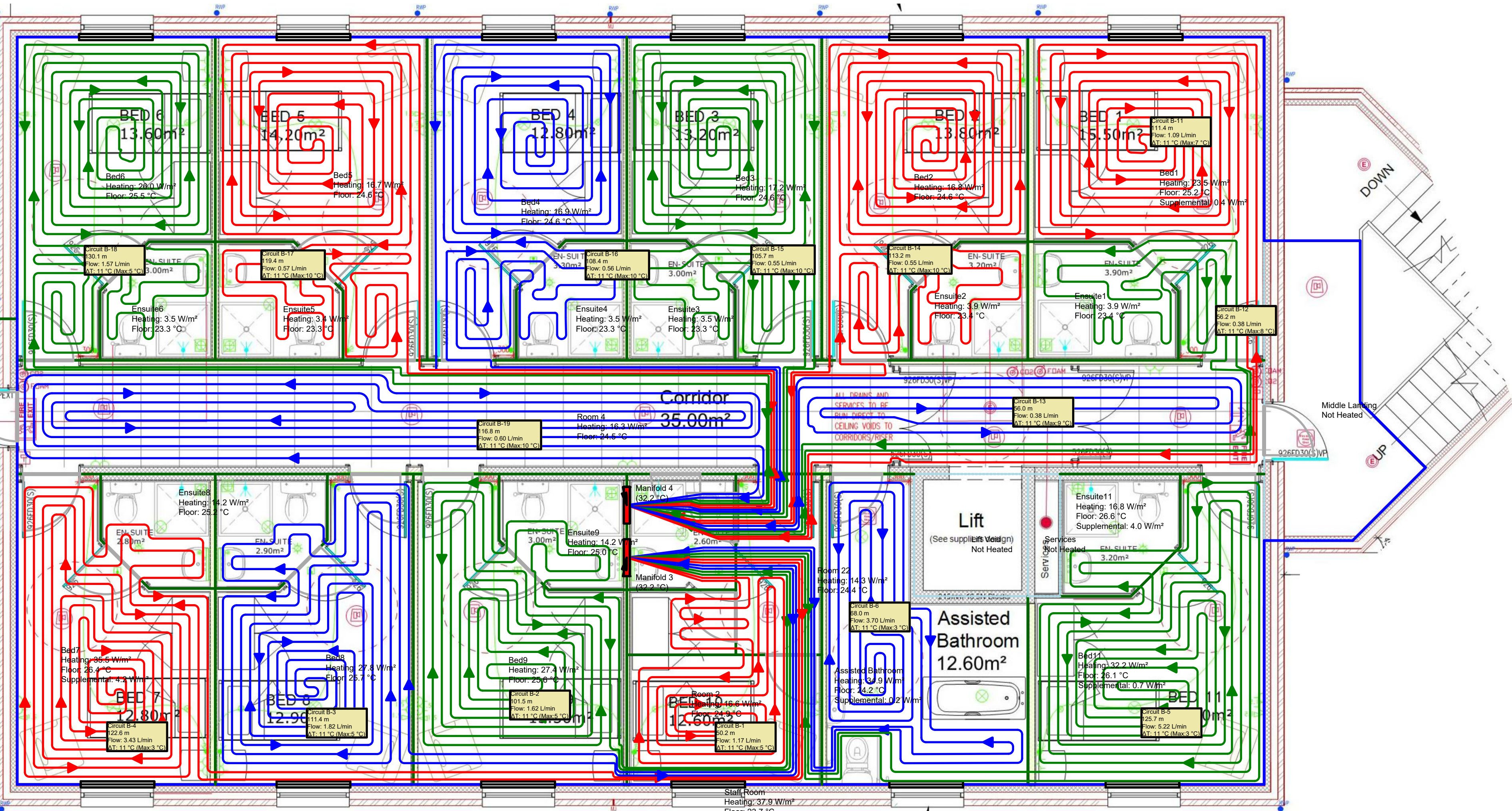
REVISIONS

No	Desc	Date



Circuit Information					
Number	Length (m)	Manifold	Flow (L/min)	Headloss (kPa)	Total Load (W)
B-1	50.2	Manifold 3	1.17	2.7	407
B-2	101.5	Manifold 3	1.62	9.9	516
B-3	111.4	Manifold 3	1.82	13.2	560
B-4	122.6	Manifold 3	3.43	43.8	636
B-5	125.7	Manifold 3	5.22	93.8	995
B-6	68.0	Manifold 3	3.70	27.7	694
B-11	111.4	Manifold 4	1.09	5.4	482
B-12	56.2	Manifold 4	0.38	0.6	146
B-13	56.0	Manifold 4	0.38	0.6	203
B-14	113.2	Manifold 4	0.55	1.7	355
B-15	105.7	Manifold 4	0.55	1.6	345
B-16	108.4	Manifold 4	0.56	1.7	350
B-17	119.4	Manifold 4	0.57	1.9	362
B-18	130.1	Manifold 4	1.57	11.9	516
B-19	116.8	Manifold 4	0.60	2.0	423

Rooms			
Name	Area (m²)	Zone	Total Load (W)
Assisted Bathroom	12.6	Zone 201	744
Bed1	15.4	Zone 201	374
Bed11	14.4	Zone 201	810
Bed2	13.9	Zone 201	240
Bed3	13.2	Zone 201	233
Bed4	13.5	Zone 201	235
Bed5	14.1	Zone 201	247
Bed6	13.3	Zone 201	352
Bed7	12.7	Zone 201	452
Bed8	12.8	Zone 201	356
Bed9	13.6	Zone 201	373
Ensuite1	4.1	Zone 201	18
Ensuite11	3.3	Zone 201	56
Ensuite2	3.1	Zone 201	12
Ensuite3	2.9	Zone 201	10
Ensuite4	2.9	Zone 201	10
Ensuite5	3.4	Zone 201	12
Ensuite6	3.0	Zone 201	11
Ensuite7	2.9	Zone 201	41
Ensuite8	2.6	Zone 201	40
Ensuite9	3.3	Zone 201	49
Lift Void	3.4	Zone 201	0
Middle Landing	8.3	Zone 201	0
Room 1	3.8	Zone 201	154
Room 2	1.7	Zone 201	46
Room 22	3.1	Zone 201	54
Room 4	36.5	Zone 201	595
Services	0.8	Zone 201	0
Staff Room	6.4	Zone 201	418



Manifolds						
Name	ManifoldType	# Circuits	SupplyTemp (°C)	TotalFlow (L/min)	Headloss (kPa)	TotalLoad (W)
Manifold 3	Stainless Steel	6	32	16.96	96.7	3,807
Manifold 4	Stainless Steel	9	32	6.23	14.9	3,181

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PROJECT:
Broomhill CC

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PROJECT NO.:
010315-1

SCALE:
1:50

DRAWING NAME:
P3 (Second Floor)

DRAWN BY:
Antony Harper

Created Using LoopCAD 2016 16.0.0080 (10/12/2016)

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3/1/2015

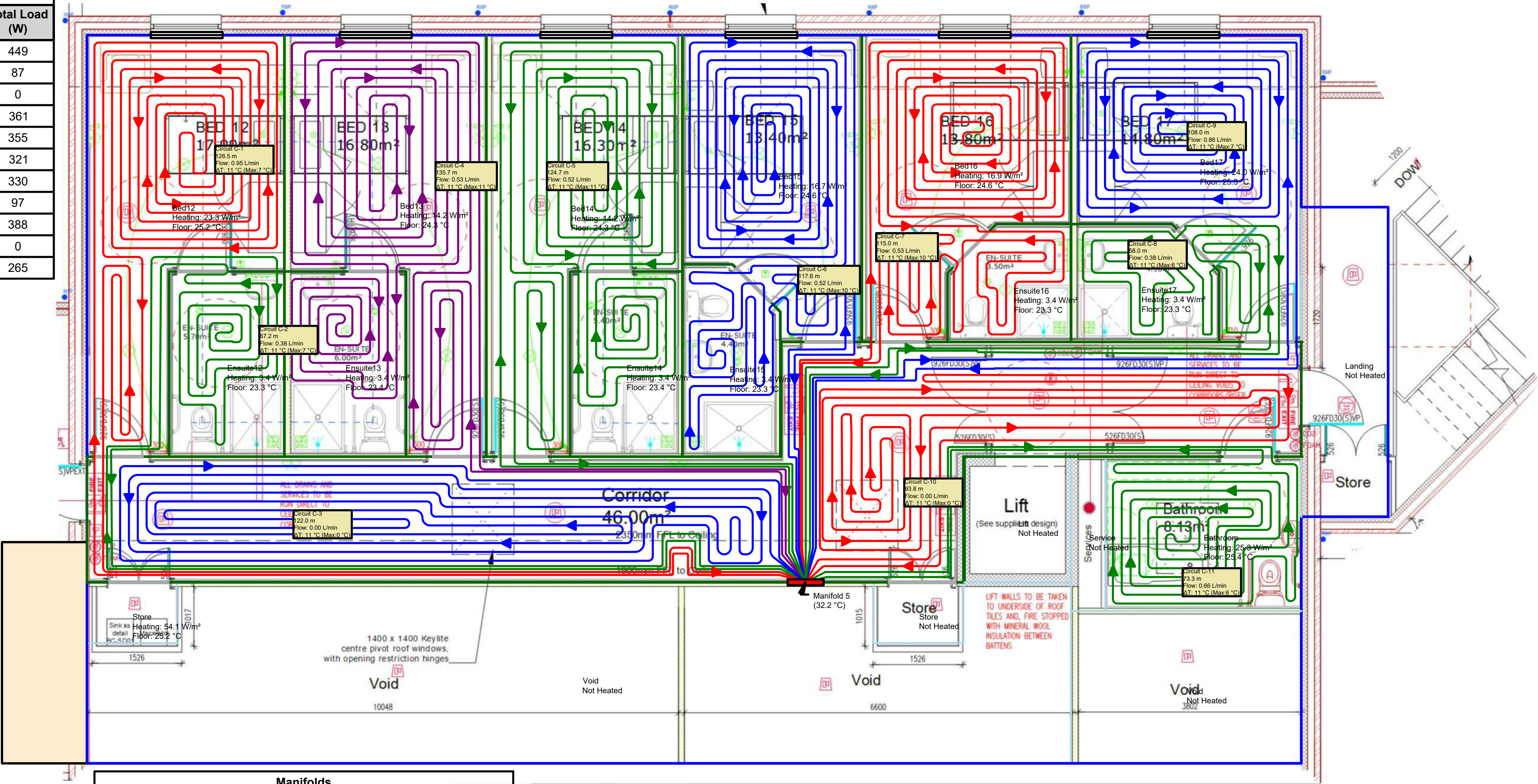
REVISIONS

No	Desc	Date



Circuit Information					
Number	Length (m)	Manifold	Flow (L/min)	Headloss (kPa)	Total Load (W)
C-1	126.5	Manifold 5	0.95	4.9	449
C-2	67.2	Manifold 5	0.38	0.7	87
C-3	122.0	Manifold 5	0.00	0.0	0
C-4	135.7	Manifold 5	0.53	2.0	361
C-5	124.7	Manifold 5	0.52	1.8	355
C-6	117.6	Manifold 5	0.52	1.7	321
C-7	115.0	Manifold 5	0.53	1.7	330
C-8	58.0	Manifold 5	0.38	0.6	97
C-9	108.0	Manifold 5	0.86	3.4	388
C-10	93.8	Manifold 5	0.00	0.0	0
C-11	73.3	Manifold 5	0.66	1.5	265

Rooms			
Name	Area (m²)	Zone	Total Load (W)
Bathroom	8.1	Zone 301	210
Bed12	16.8	Zone 301	392
Bed13	17.0	Zone 301	241
Bed14	16.8	Zone 301	238
Bed15	13.2	Zone 301	220
Bed16	13.8	Zone 301	233
Bed17	14.8	Zone 301	361
Ensuite12	5.6	Zone 301	19
Ensuite13	6.0	Zone 301	20
Ensuite14	5.5	Zone 301	19
Ensuite15	4.6	Zone 301	16
Ensuite16	3.5	Zone 301	12
Ensuite17	4.3	Zone 301	15
Landing	7.1	Zone 301	0
Lift	3.5	Zone 301	0
Service	1.2	Zone 301	0
Store	1.3	Zone 301	72
Store	1.3	Zone 301	0
Void	9.5	Zone 301	0
Void	46.1	Zone 301	0



Manifolds				
Name	# Circuits	SupplyTemp (°C)	TotalFlow (L/min)	Headloss (kPa)
Manifold 5	11	32	5.32	7.8