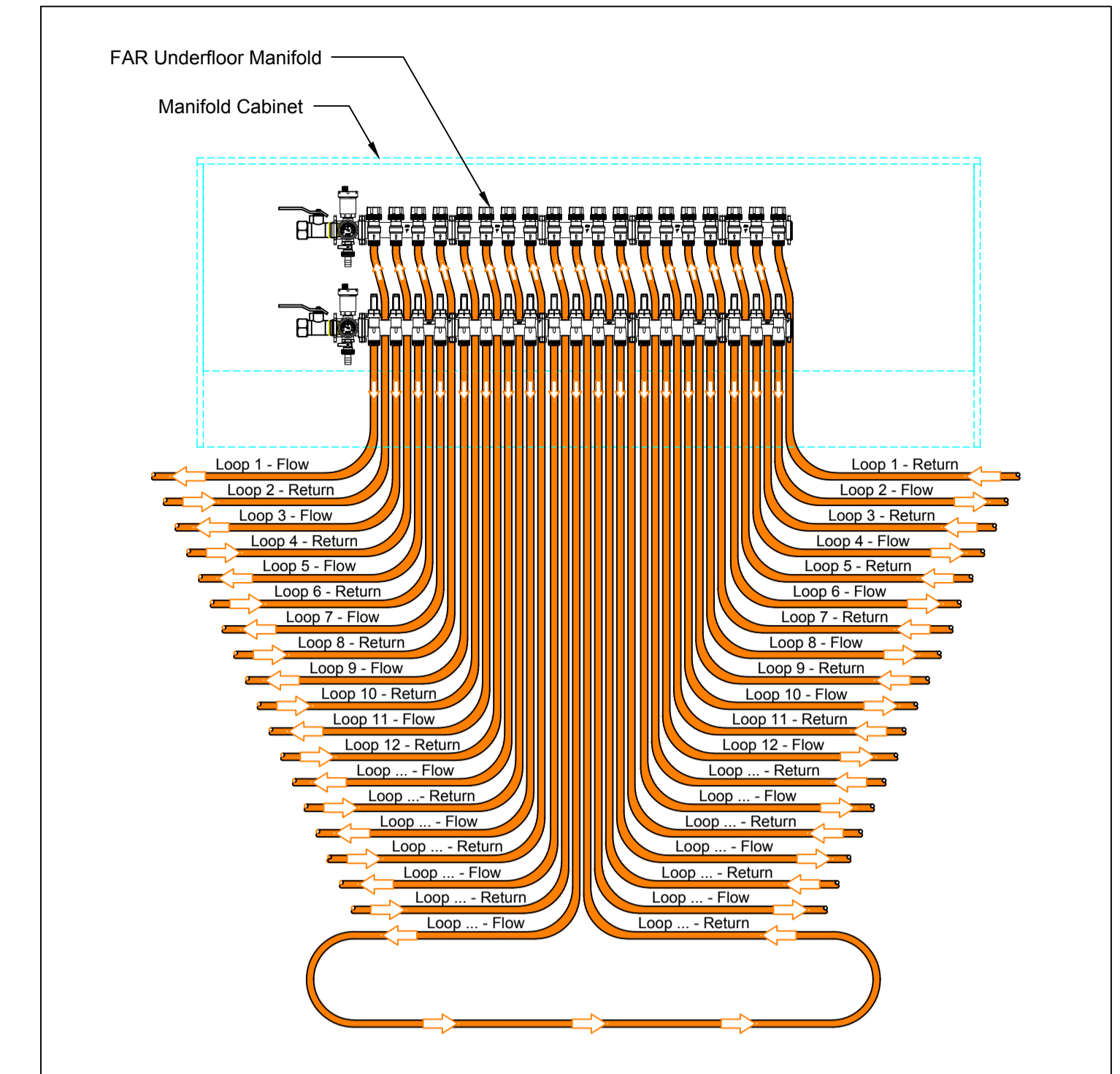


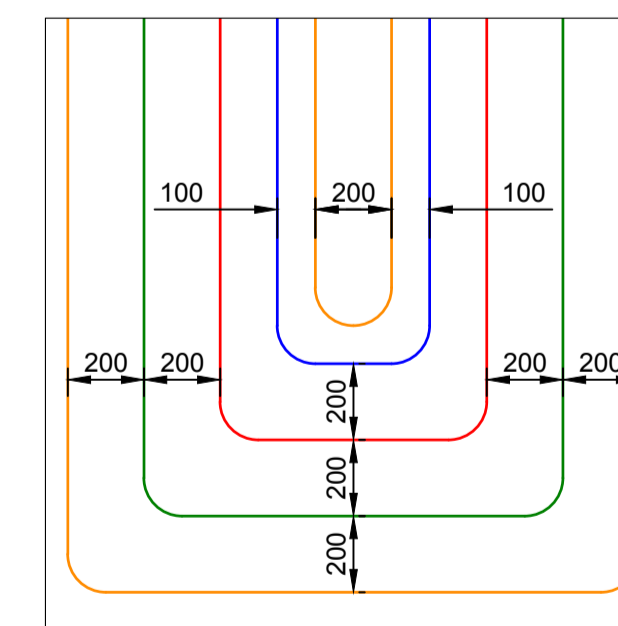
**Frost Heave Reverse Return Manifold Configuration**  
*Indicative Only - Not All Loops/Manifold Ports Shown*



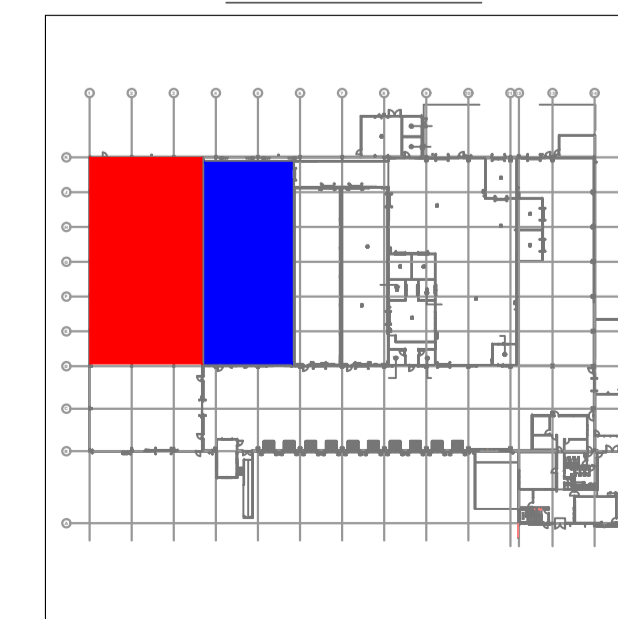
Underfloor Manifold UFM-1 = FAR 22-Way			Underfloor Manifold UFM-2 = FAR 28-Way		
Manifold Length = 1330mm			Manifold Length = 1605mm		
Cabinet Required = 1600mm (By Others)			Cabinet Required = 1800mm (By Others)		
Loop	Area	Length	Loop	Area	Length
Loop 1.1	Freezer	178 Metres	Loop 2.1	Future Freezer	189 Metres
Loop 1.2	Freezer	175 Metres	Loop 2.2	Future Freezer	186 Metres
Loop 1.3	Freezer	174 Metres	Loop 2.3	Future Freezer	183 Metres
Loop 1.4	Freezer	173 Metres	Loop 2.4	Future Freezer	180 Metres
Loop 1.5	Freezer	172 Metres	Loop 2.5	Future Freezer	179 Metres
Loop 1.6	Freezer	171 Metres	Loop 2.6	Future Freezer	178 Metres
Loop 1.7	Freezer	170 Metres	Loop 2.7	Future Freezer	177 Metres
Loop 1.8	Freezer	170 Metres	Loop 2.8	Future Freezer	177 Metres
Loop 1.9	Freezer	169 Metres	Loop 2.9	Future Freezer	176 Metres
Loop 1.10	Freezer	168 Metres	Loop 2.10	Future Freezer	175 Metres
Loop 1.11	Freezer	167 Metres	Loop 2.11	Future Freezer	174 Metres
Loop 1.12	Freezer	166 Metres	Loop 2.12	Future Freezer	173 Metres
Loop 1.13	Freezer	165 Metres	Loop 2.13	Future Freezer	172 Metres
Loop 1.14	Freezer	164 Metres	Loop 2.14	Future Freezer	171 Metres
Loop 1.15	Freezer	164 Metres	Loop 2.15	Future Freezer	171 Metres
Loop 1.16	Freezer	163 Metres	Loop 2.16	Future Freezer	170 Metres
Loop 1.17	Freezer	162 Metres	Loop 2.17	Future Freezer	169 Metres
Loop 1.18	Freezer	161 Metres	Loop 2.18	Future Freezer	168 Metres
Loop 1.19	Freezer	160 Metres	Loop 2.19	Future Freezer	167 Metres
Loop 1.20	Freezer	159 Metres	Loop 2.20	Future Freezer	166 Metres
Loop 1.21	Freezer	159 Metres	Loop 2.21	Future Freezer	165 Metres
Loop 1.22	Freezer	158 Metres	Loop 2.22	Future Freezer	165 Metres
<b>Total</b>	<b>Freezer</b>	<b>3668 Metres</b>	Loop 2.23	Future Freezer	164 Metres
			Loop 2.24	Future Freezer	163 Metres
			Loop 2.25	Future Freezer	162 Metres
			Loop 2.26	Future Freezer	161 Metres
			Loop 2.27	Future Freezer	161 Metres
			Loop 2.28	Future Freezer	160 Metres
			<b>Total</b>	<b>Future Freezer</b>	<b>4802 Metres</b>

**Detail View**

Please Note Different Spacing Where Underfloor Pipe Returns Against Inner Most Loop



**Location Plan**



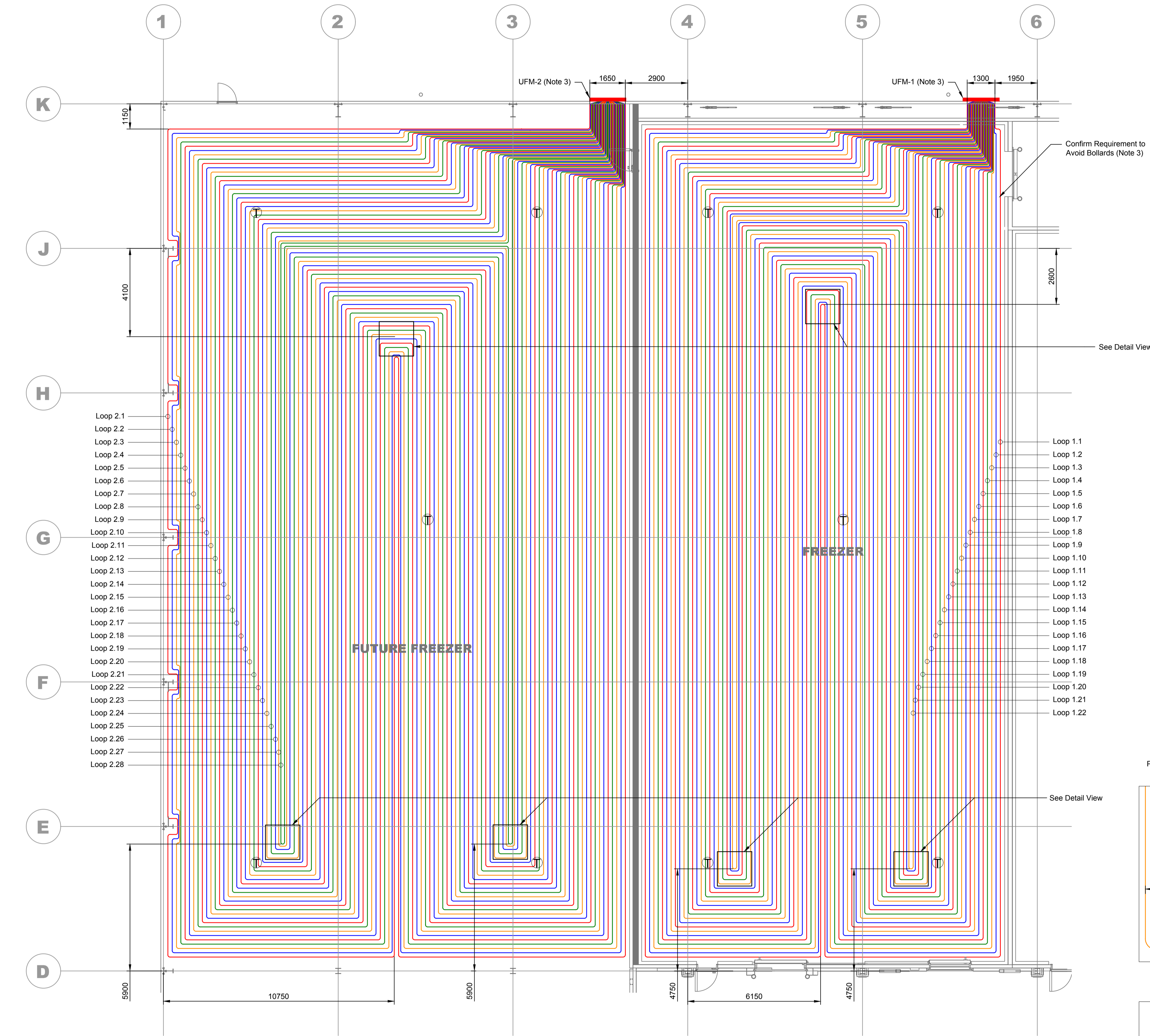
Failure To Follow These Plans May Result In Heating Performance That Is Less Than Optimum.

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**Central Heating**  
NEW ZEALAND

	ISSUE: <b>A</b>
	DRG No. <b>UF1</b>
B JUL 22 Layout Updated	
A JUN 22 Preliminary	
Issue Date Amendment	SHEET: 1 OF 2
DRAWN: JC	PROJECT NO: 20420
CHECKED: JS	DATE: 10 JUNE 2022
DESIGN: JC	SCALE: 1:100 @ A1, 1:200 @ A3
<b>TITLE:</b>	
<b>Service Foods Wellington Frost Heave Underfloor Layout</b>	
CLIENT:	
<b>Below Zero Limited t/a Switch</b>	

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- Notes:**
- All Pipes To Be 16mm Multitubo PERT Pipe Tied To Reinforcing Mesh At 200mm Spacing Unless Shown Otherwise
  - Run Pipe A Minimum Of 200mm Away From Walls And Permanent Fixtures.
  - Liaise With Builder To Ensure Safe Path For Pipes That Cross Under Walls And Permanent Fixtures.
  - All Walls, Saw Cuts, Grid Lines, Control Joints, Permanent Fixtures And Anything Else To Be Avoided Is To Be Marked Out Onsite Before The Underfloor Is Laid.
  - Localized Protection To Be Applied To Pipes That Cross Saw Cuts.
  - Pipes That Run Through Control Joints To Be Sleeved Within Conduit At A Minimum Of 200mm Either Side Of Joint And Sealed At Each End.
- Ⓣ Recommended Floor Probe Location