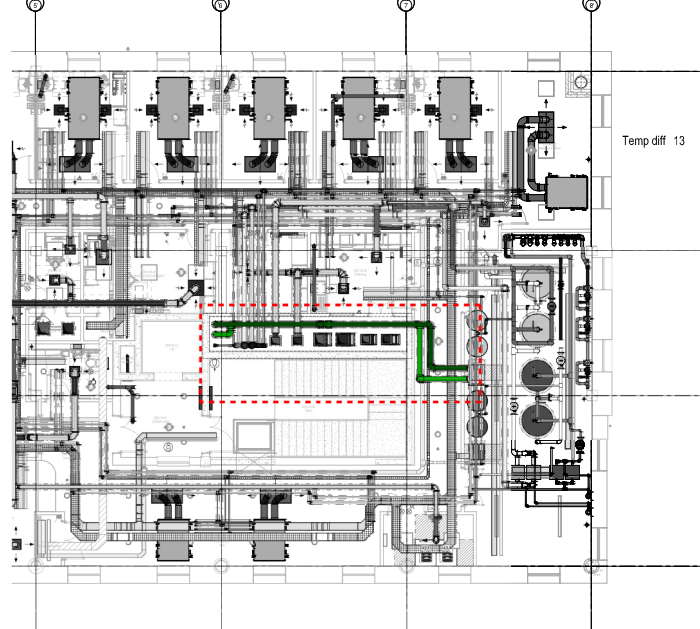


**H** Plant Room Schematic - DH Future Connections  
NTS



**A** Second Floor - Distribution Route  
1:100 @ A0

Table 1 - 5th Generation Heat Network Basis of Design

Item	Value	Units	Temp
<b>1. Design heating capacity</b>	190	kW	
<b>2. District heating primary (SIDE 1)</b>			
2.1 Ambient loop warm network flow	13-25	°C	
2.2 Ambient loop warm network return	12-2	°C	
2.3 Ambient loop mass flow rate	3.48-4.12	kg/s	
<b>3. Building heat network (SIDE 2)</b>			
3.1 Primary water source flow	10-20	°C	
3.2 Primary water source return	15-5	°C	
3.3 Primary water source mass flow rate	9.05	kg/s	
<b>4. Design cooling capacity</b>	400	kW	
<b>5. District cooling primary (SIDE 1)</b>			
5.1 Ambient loop cool network flow	10	°C	
5.2 Ambient loop cool network return	15	°C	
5.3 Ambient loop cool mass flow rate	19.05	kg/s	
<b>6. Building cooling network (SIDE 2)</b>			
6.1 Primary water source flow	7	°C	
6.2 Primary water source return	12	°C	
6.3 Primary water source mass flow rate	19.05	kg/s	

**SAFETY, HEALTH & ENVIRONMENTAL**

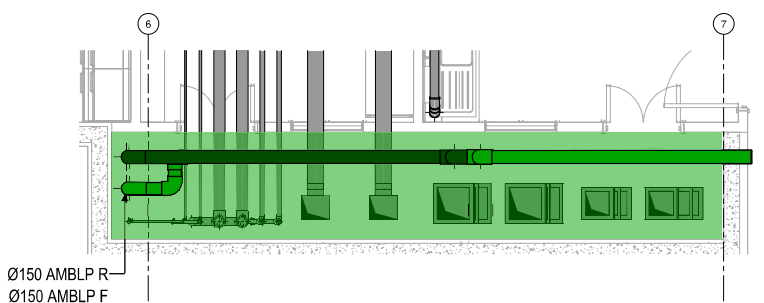
Risk Level:  
 Very Low  
 Low  
 Moderate  
 High  
 Very High

This drawing should be read in conjunction with the Designers risk assessment schedule, document number: CDC-SDS-ZZ-ZZ-AS-ME-003700

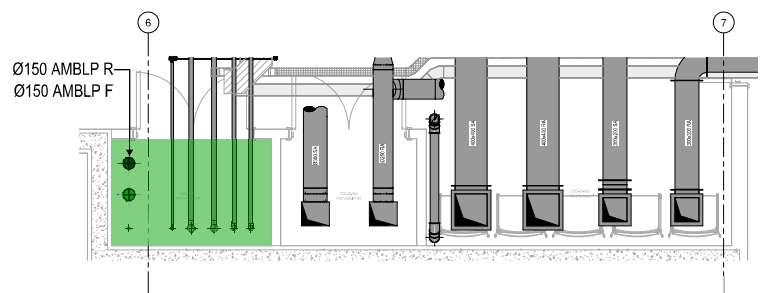
All works should be carried out in an approved risk assessment and method statement.

**Notes**

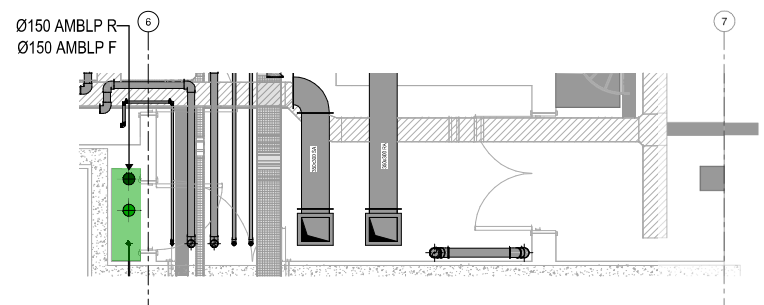
1. Buried district heating pipes to be carried out in pre-insulated pipe-in-pipe system rated for 10bar(g) maximum operating pressure, as FibreFlex manufactured by FlexEnergy or equal and approved.
2. Install buried pre-insulated pipe-in-pipe as part of the works. Cap both ends for future fit-out by others.
3. Final connection to district heating system by network provider, when system becomes available.
4. Installation of district heating network inside the building, including all plant, equipment, and sundries to be design by others, and carried out by Fit-out Contractor.
5. This information is initial and simplified to convey the extent of the strategy for connecting to a future district heating system, and is based on excerpts from other drawings and equipment schedules. For exact details refer to the Record Information / Final Design File. Pipe sizes are based on the basis of design listed in Table 1.
6. Do not scale from this drawing.



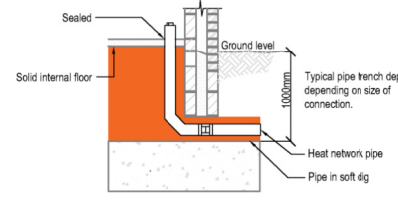
**G** Combined Riser - Second Floor  
1:20 @ A0



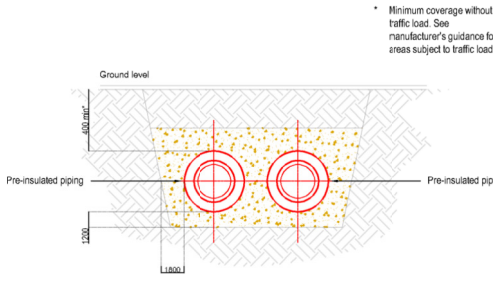
**F** Combined Riser - First Floor  
1:20 @ A0



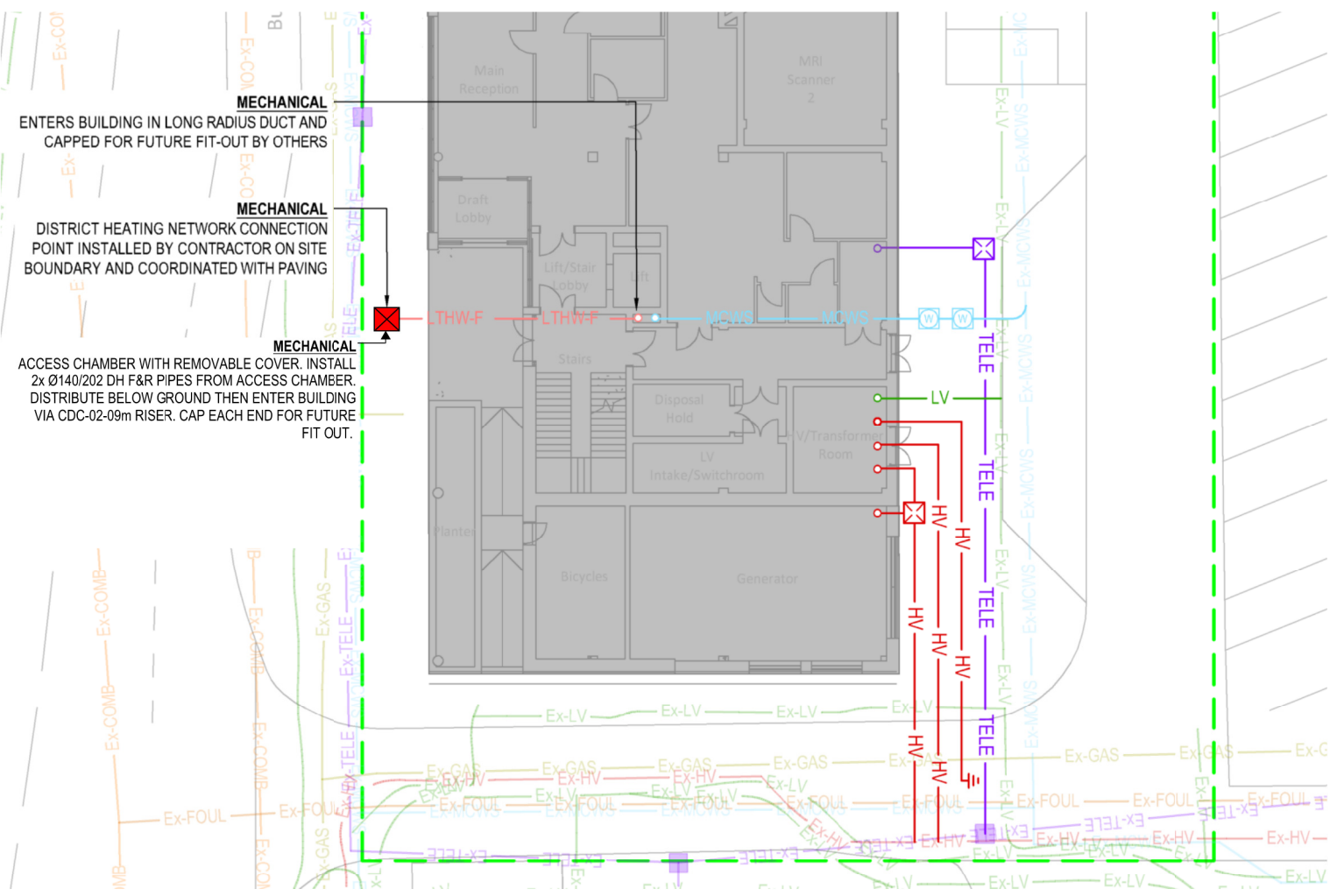
**E** Combined Riser - Ground Floor  
1:20 @ A0



**D** External Services - Typical Entry of Heat Network Pipe into Building  
NTS



**C** External Services - Typical Arrangement of Heat Network Pre-insulated Piping System  
NTS



**B** External Services - DH Incoming Services  
1:100 @ A0

Rev	Description	Date	By	Check
1	Issue	14/03/20		
2	Revise	04/04/20		