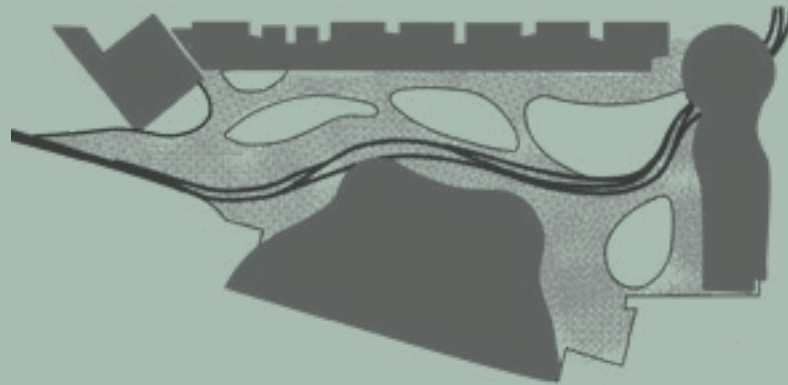




CHORUS LIFE BERGAMO

BIM MEP Coordinator

Project Type - Mixed-Use Complex.

Location - Bergamo, Italy.



CHORUS LIFE BERGAMO

The area affected by the urban transformation project promoted by the Costim group is the disused area of the former Ote; a stone's throw from "Borgo Palazzo"

The project is an innovative smart city redeveloping an abandoned area of about 150,000 square meters, with an arena for up to 6,500 seats, a parking area for 1000 cars, a spa with a medical center, a sky-jogging path, a park of 25,000 square meters (which includes squares and equipped areas), a hotel with 250 rooms and residential apartments of 80 units.

Chorus Life offers an urban regeneration model, which can be replicated anywhere in the world, which promotes social well-being, economic profit, sustainable architecture and technologies at the service of the smart city. The inauguration is scheduled for May 2023.



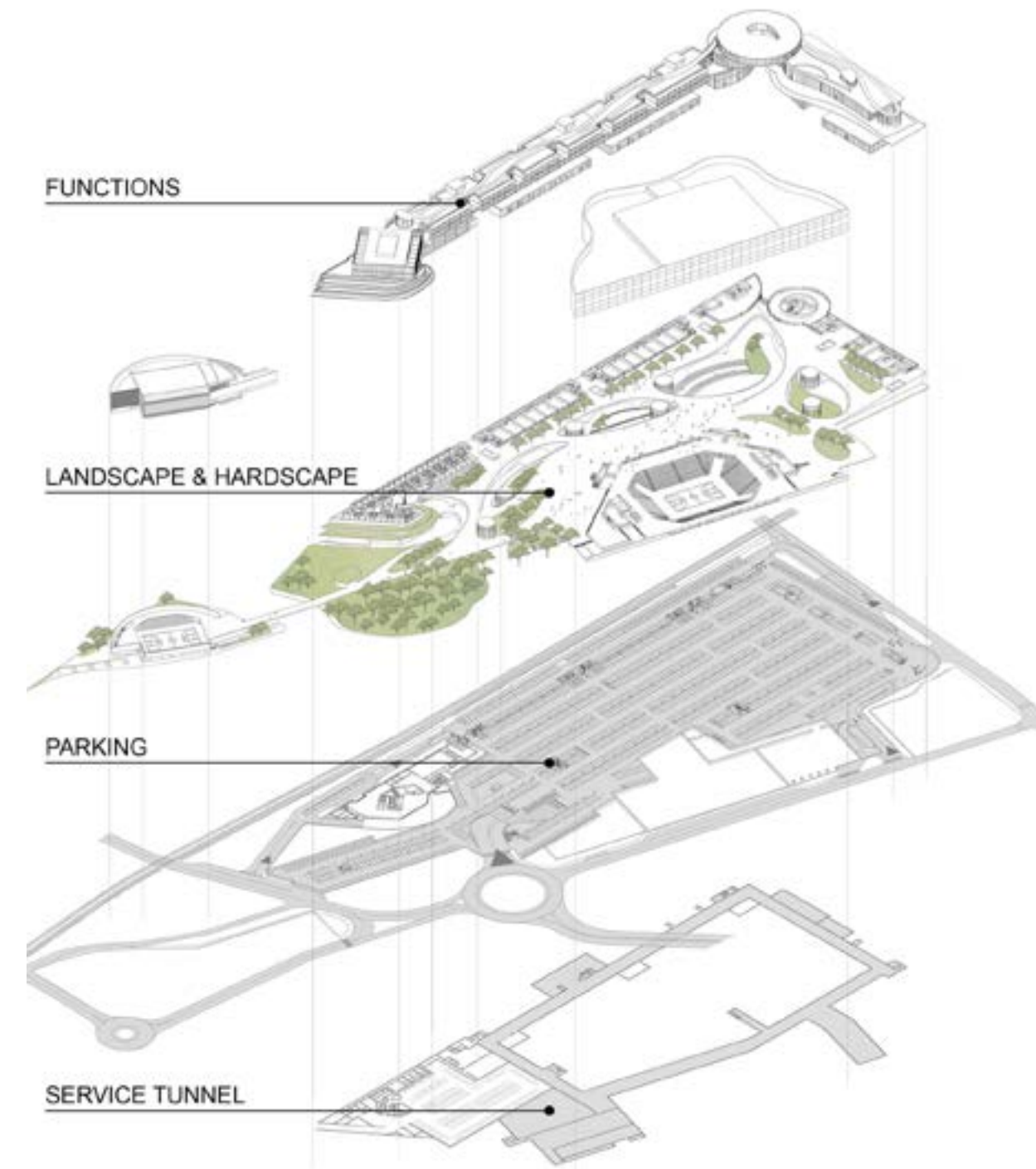


PROJECT LAYOUT

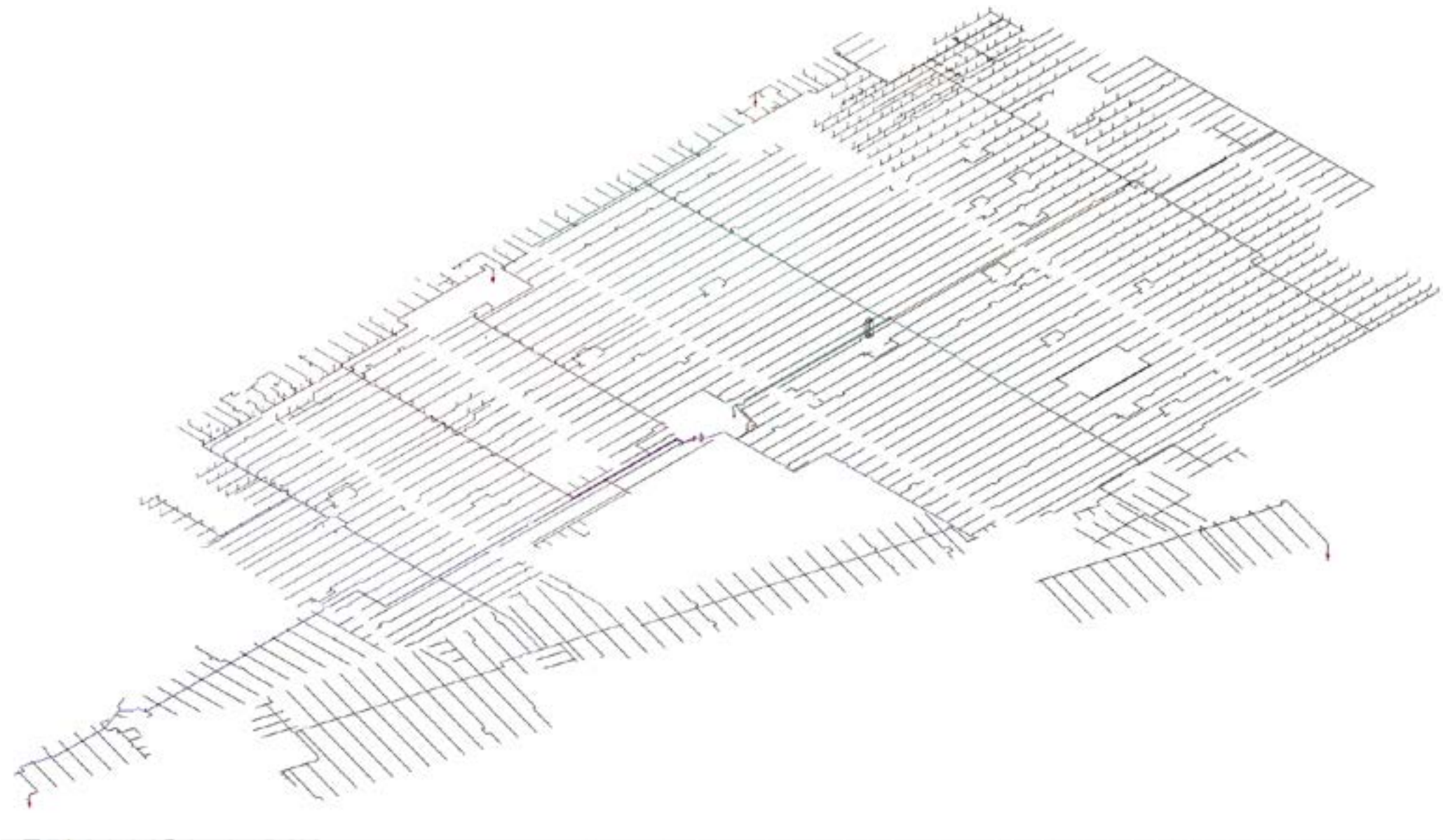
BLOCKS AND SUBDIVISIONS

In this project, as part of a team, I functioned as a BIM MEP Coordinator. We were responsible for the modelling delivery of all MEP systems (inc. HVAC, Electrical Distribution, Plumbing Network) and the delivery of construction documentation. The role involved close collaboration with the project engineers and the contractors on site.

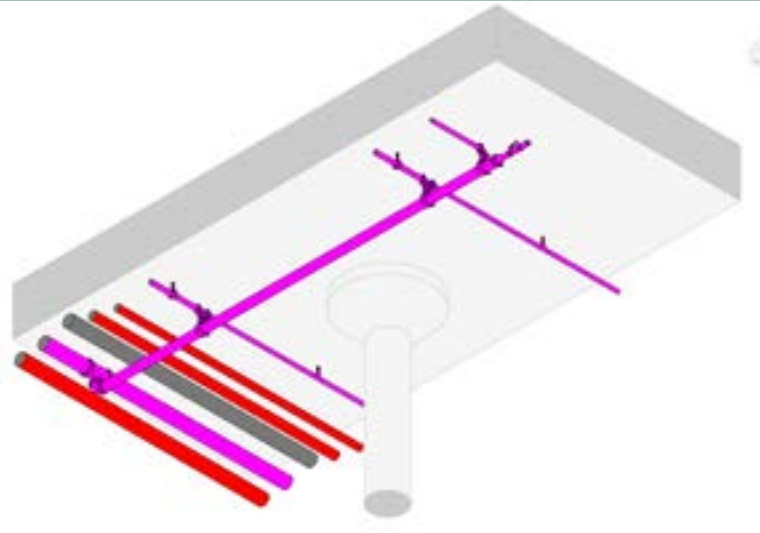
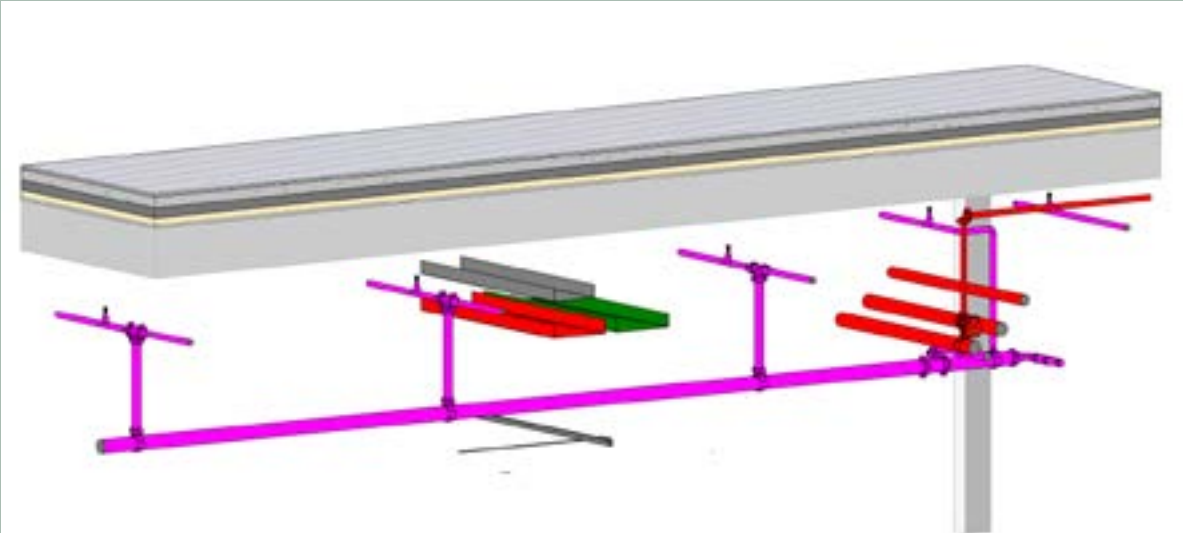
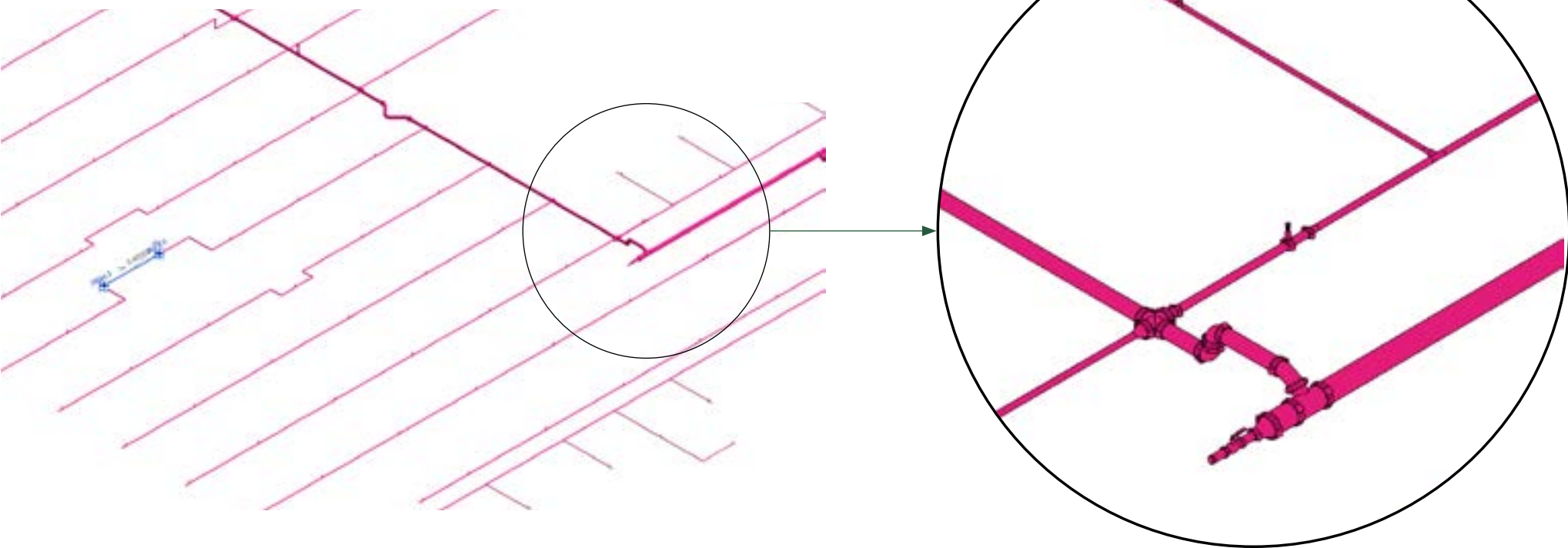
Due to the size of the area, and the number of companies involved, the project was split into multiple links accessible via BIM360. The major divisions of the project included: an underground parking area, a wellness centre, a stretch of apartments, a luxury hotel, an arena, and outdoor landscapes.



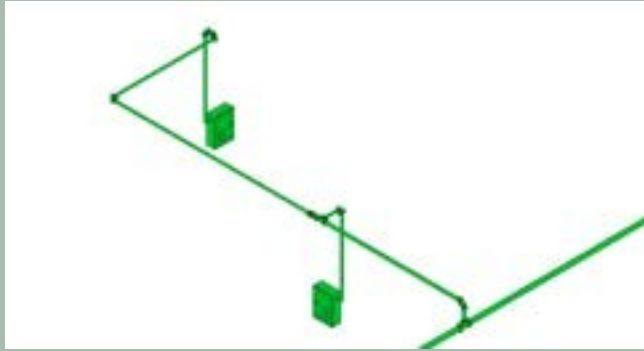
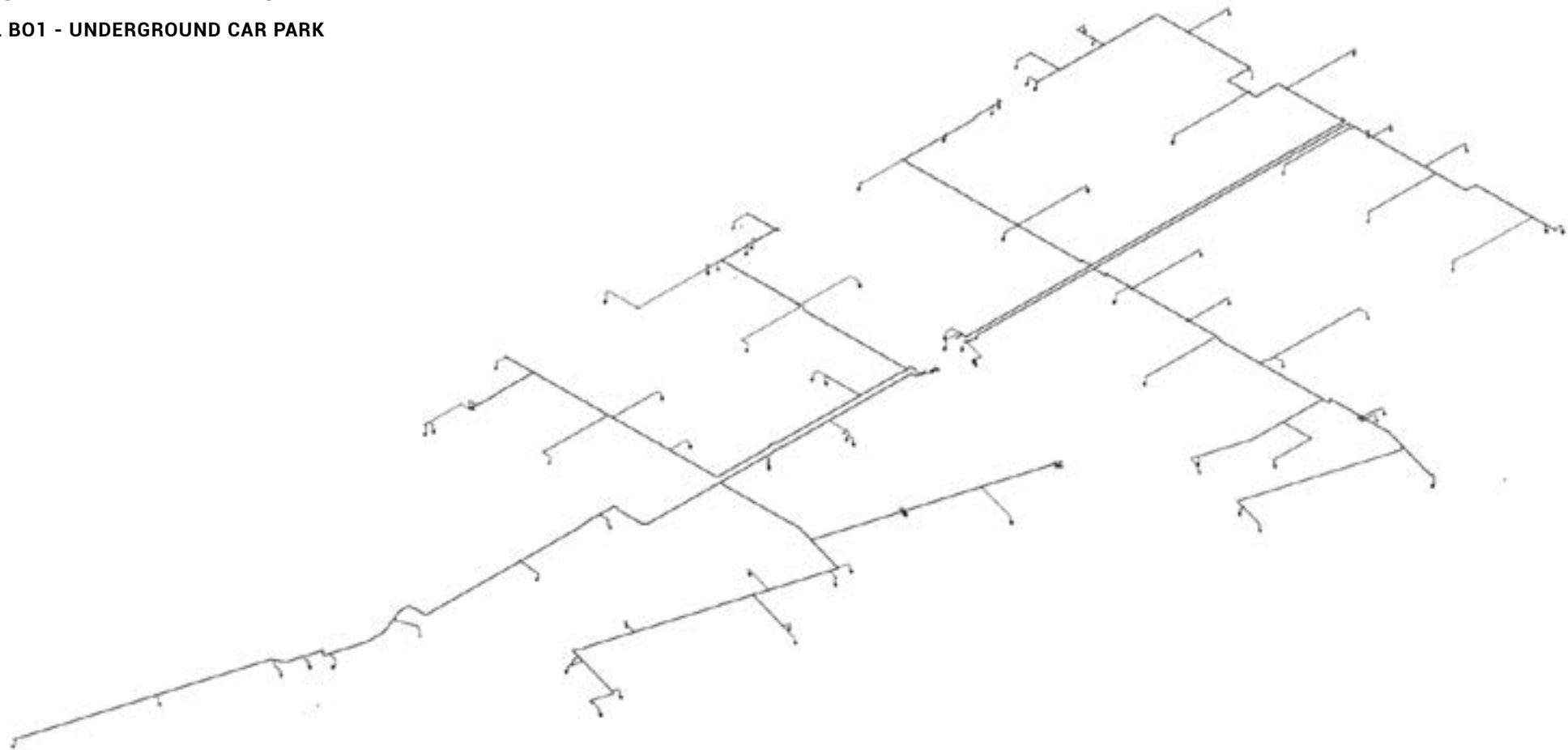
SPRINKLER SYSTEMS
LEVEL B01 - UNDERGROUND CAR PARK



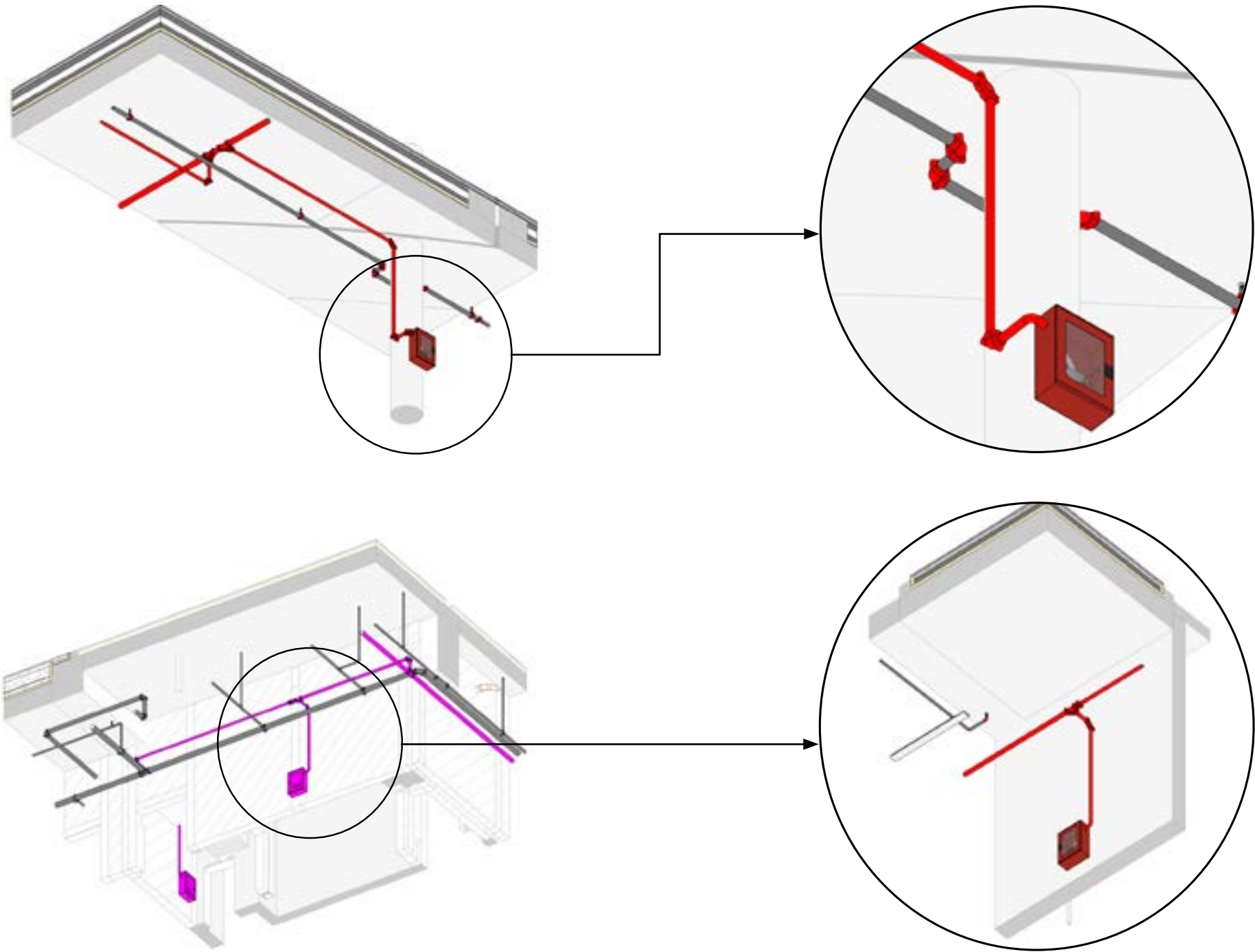
SLOPED PIPES, SPRINKLERS AND DISCHARGE VALVES AND FITTINGS



HOSE REEL NETWORK
LEVEL B01 - UNDERGROUND CAR PARK

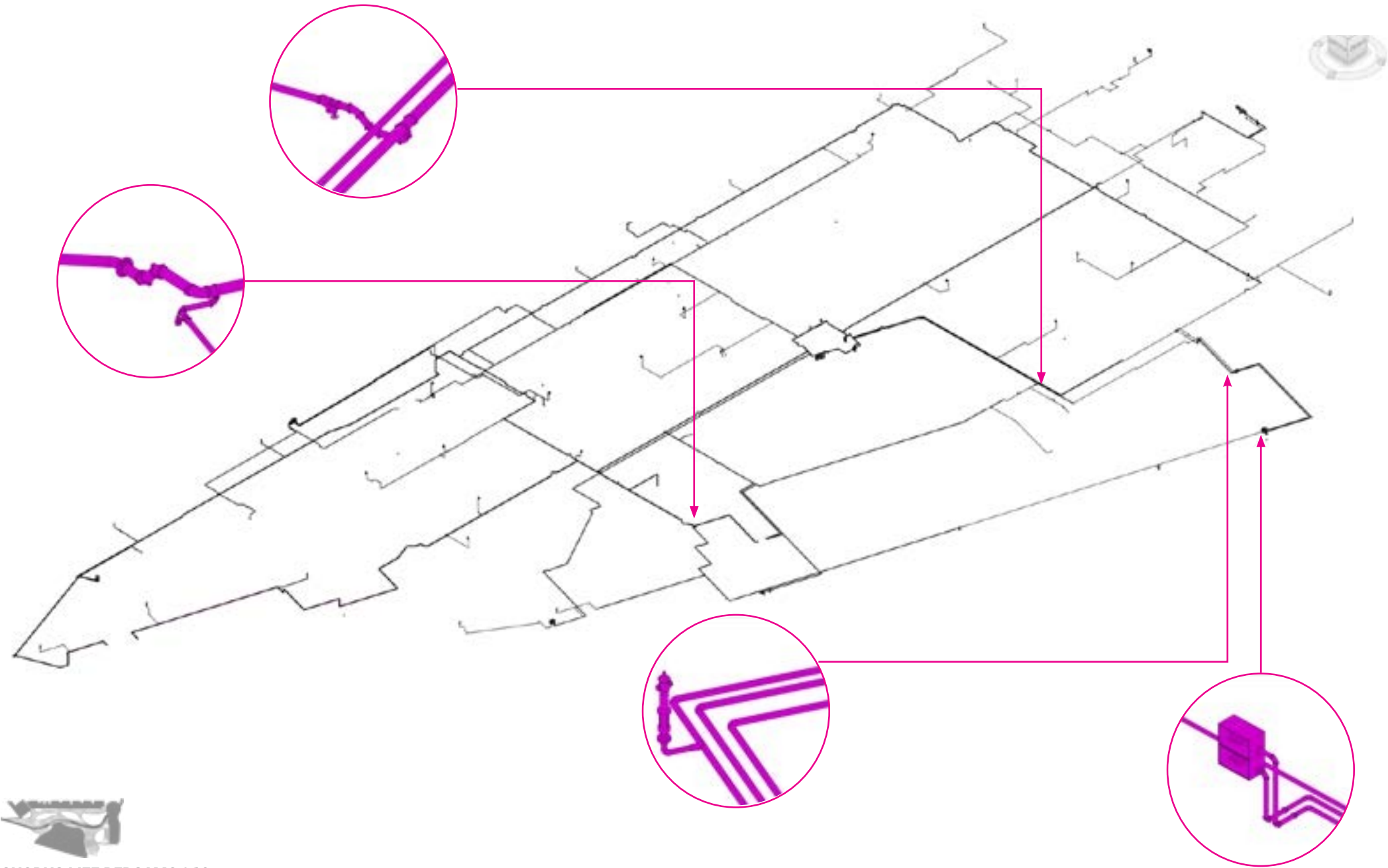


The fire protection system were split into 3 sub-networks; one for the fire department connector, another for the hose reels, and a dry system for the fire sprinklers in sloped piping. The modeling process involved real-time collaboration with other disciplines, clash detection and documentation

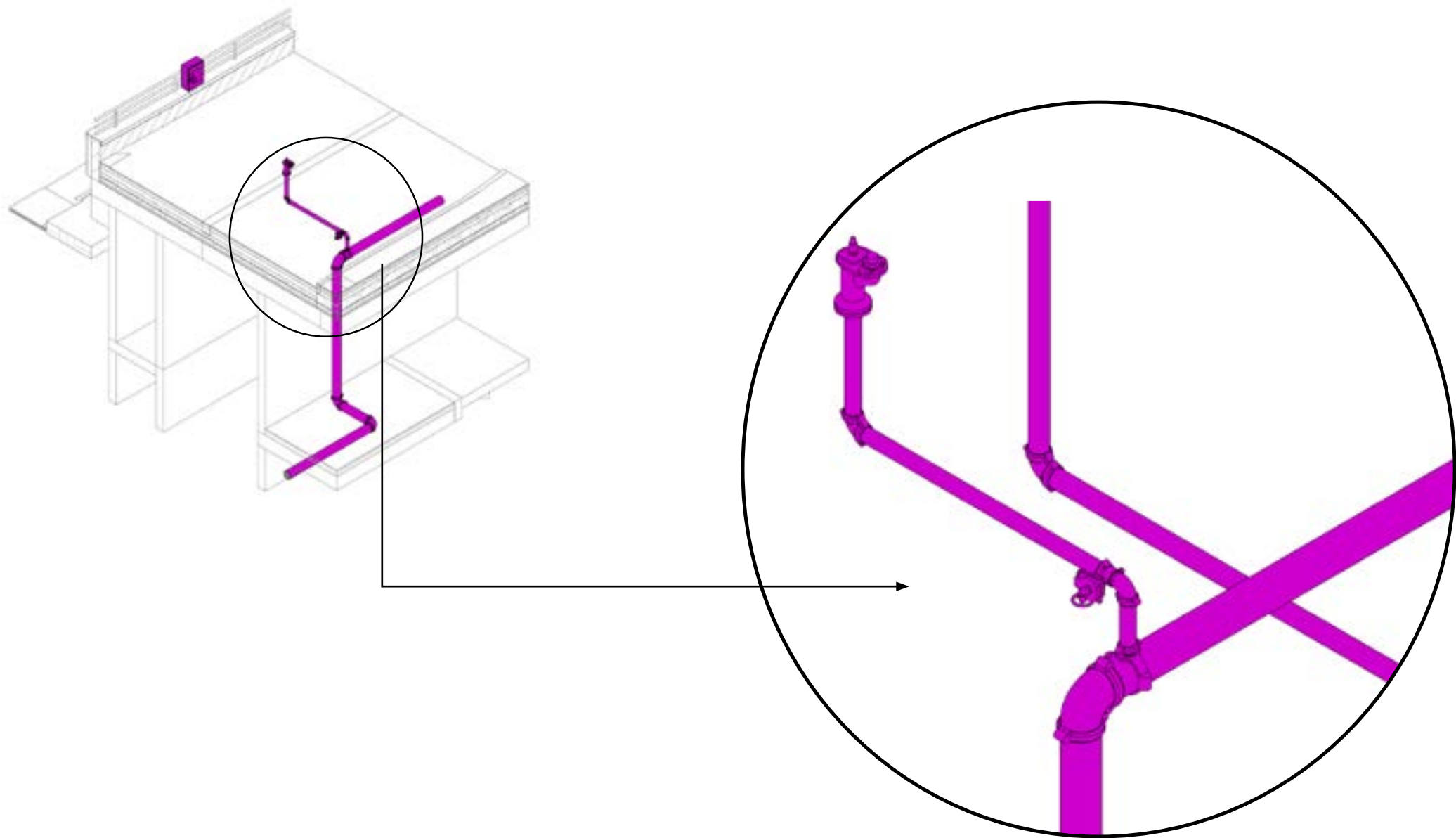


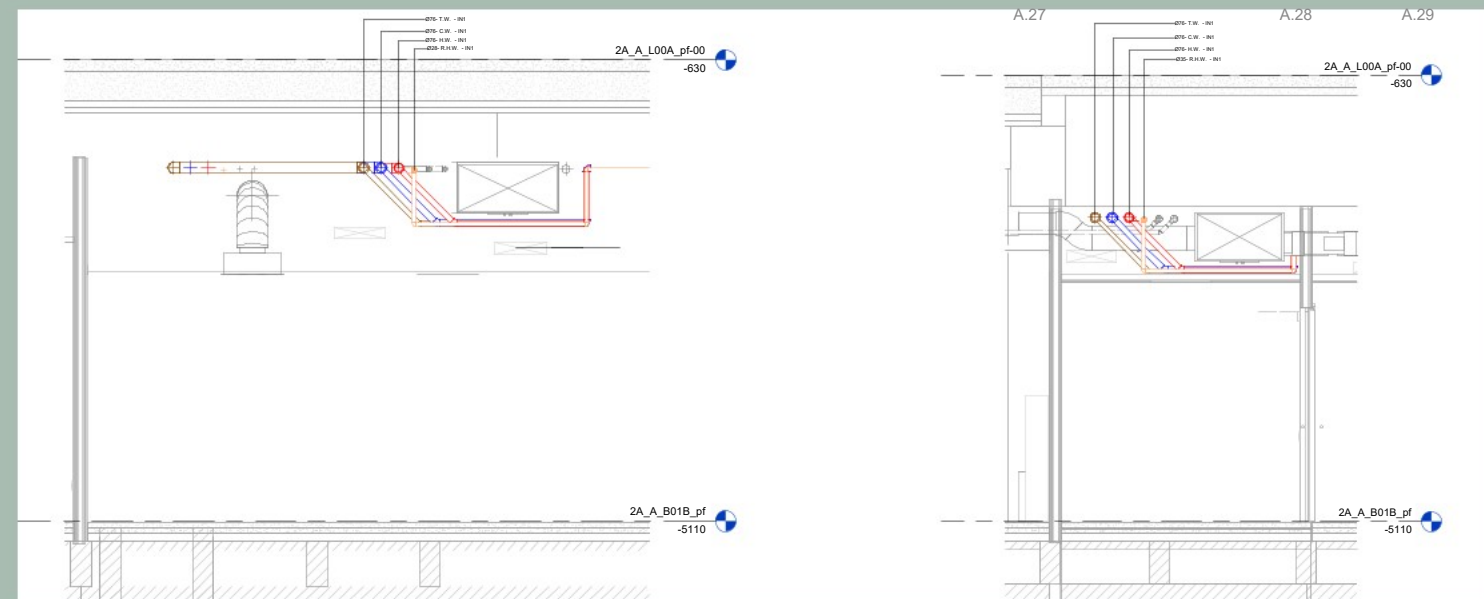
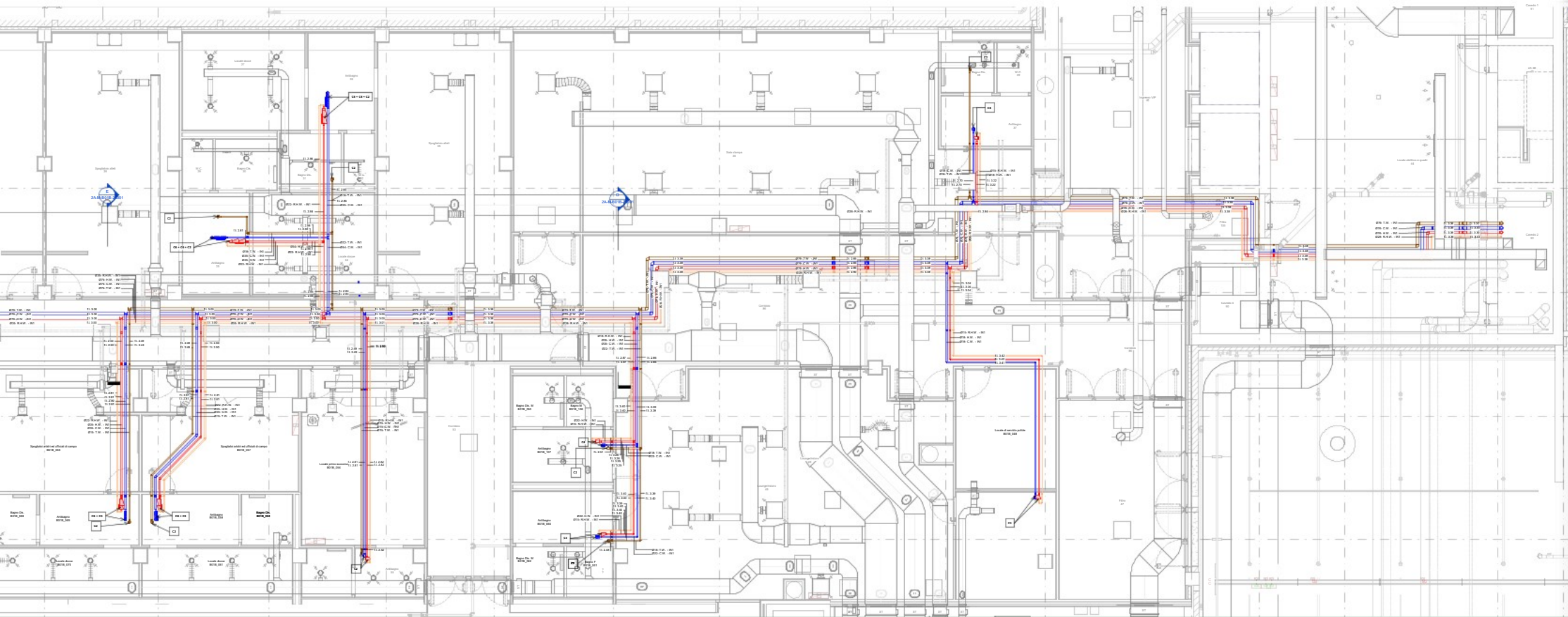
FDC & HYDRANTS

LEVEL B01 & L00 - FIRE DEPARTMENT CONNECTIONS & HYDRANTS



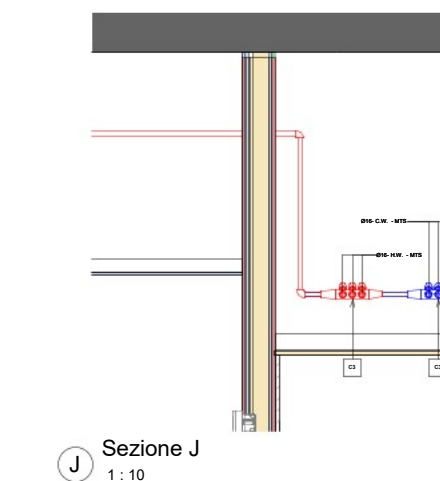
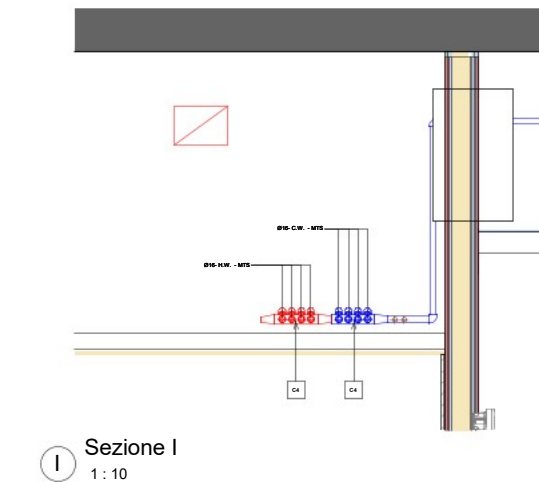
SINGLE UNDERFLOOR HYDRANT



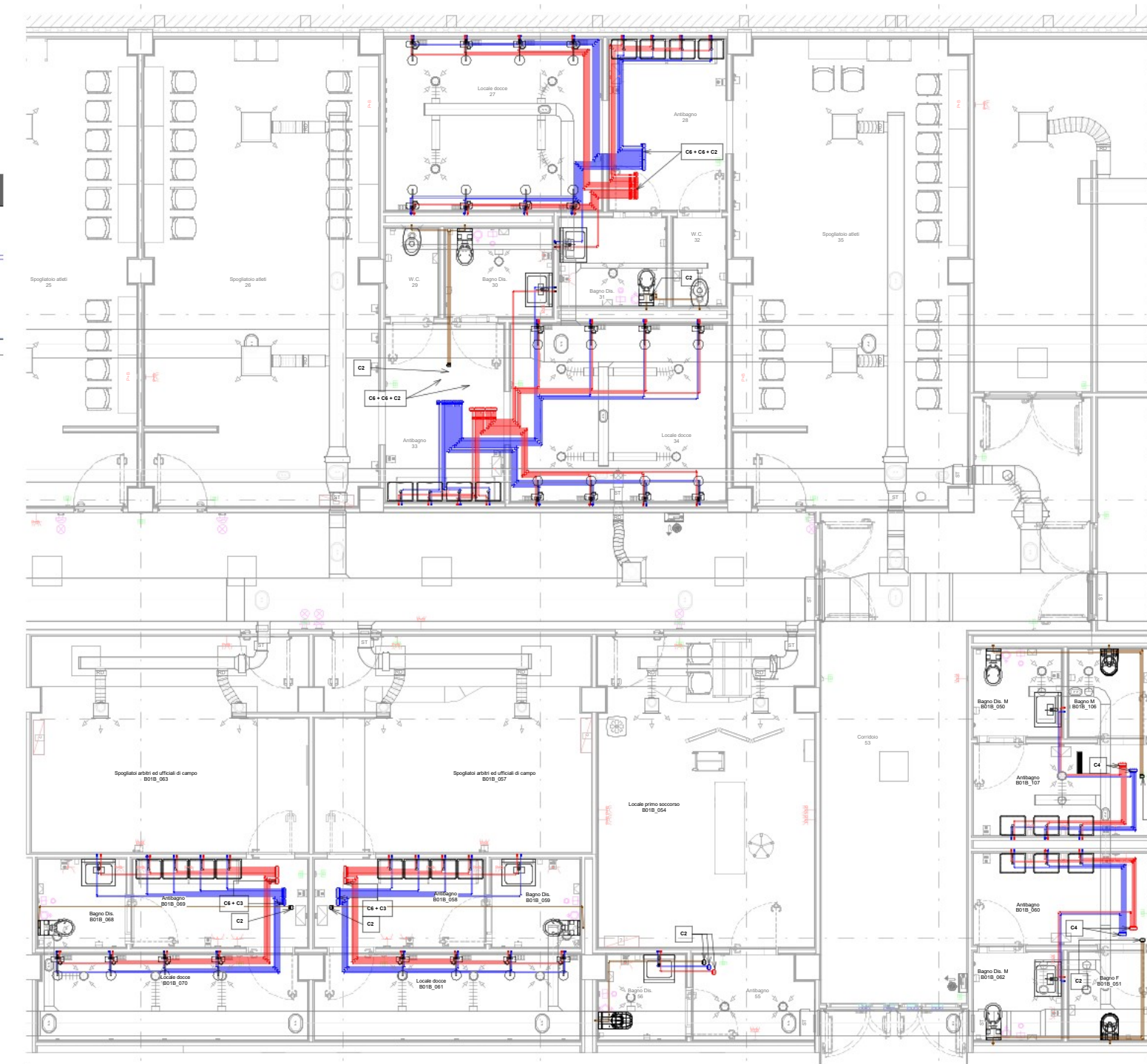


DOMESTIC WATER SYSTEMS

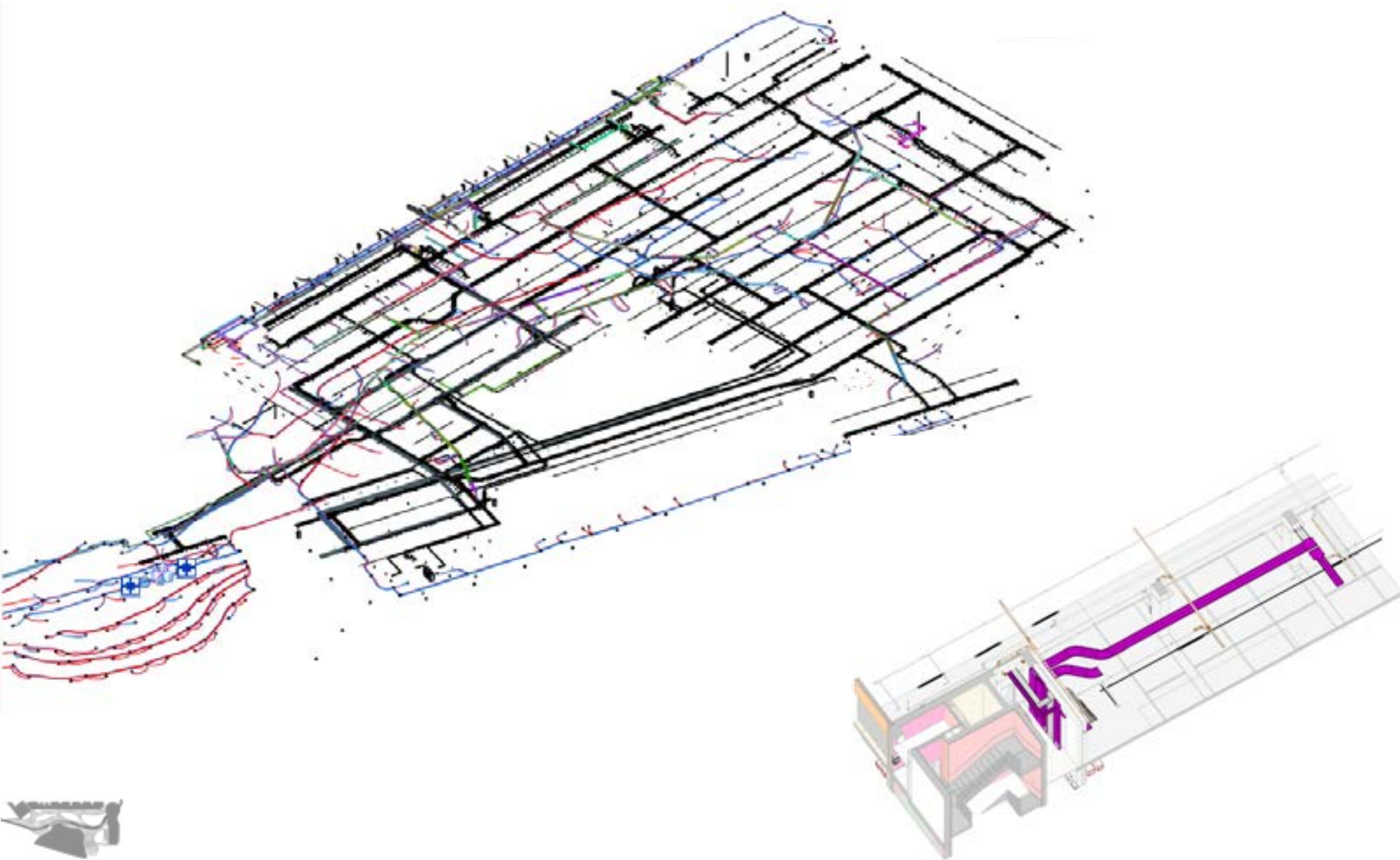
LEVEL B01 - SHOWERS & LOCKERS



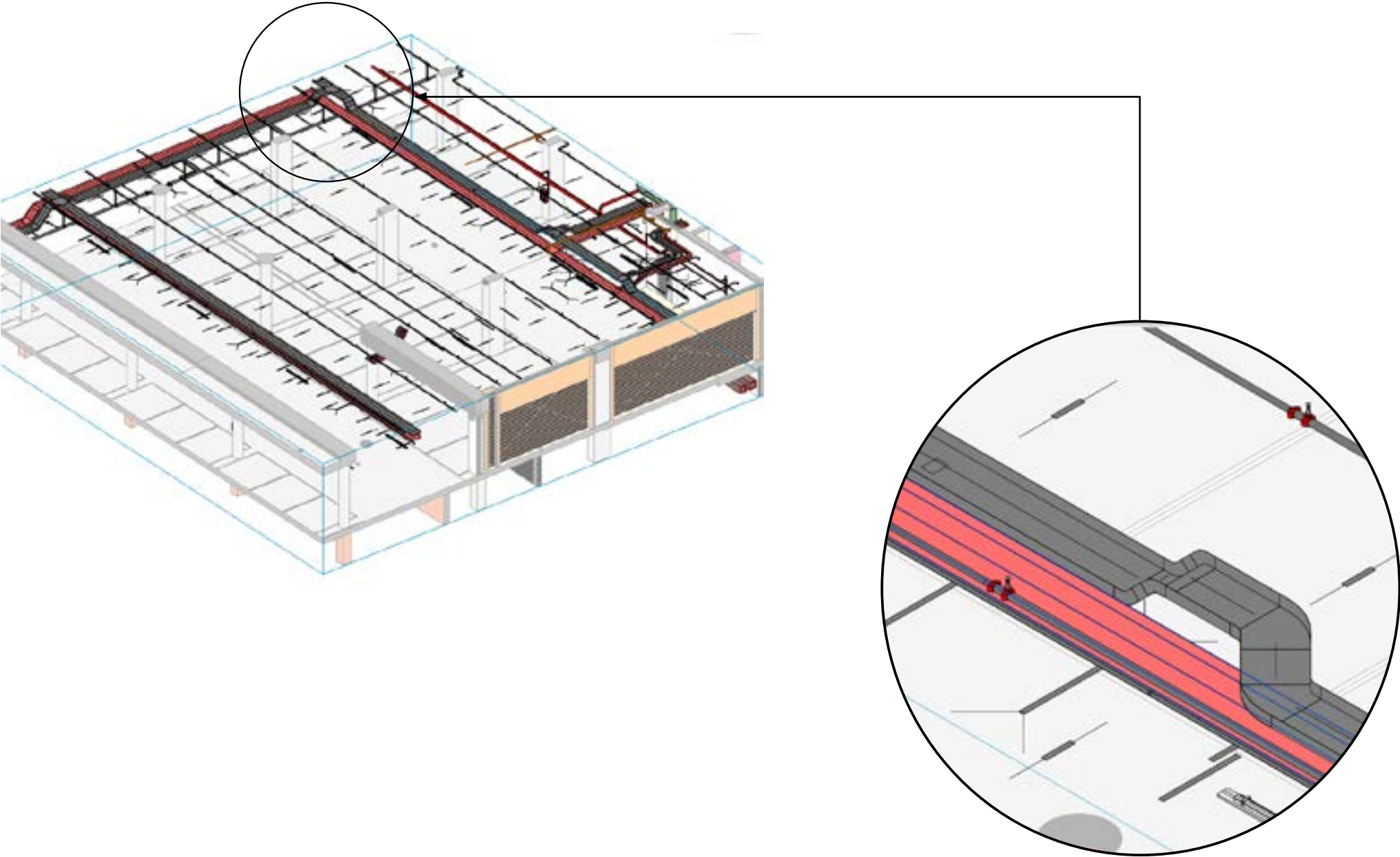
Design and coordination of the large-scale domestic water distribution network from the central plant room to the plumbing fixtures, including the cold water, hot water supply, hot water return, and grey water systems. Coordinated pipe routing with architectural, structural, and MEP disciplines to resolve clashes, optimize installation, and ensure compliance with project requirements and BIM coordination standards.

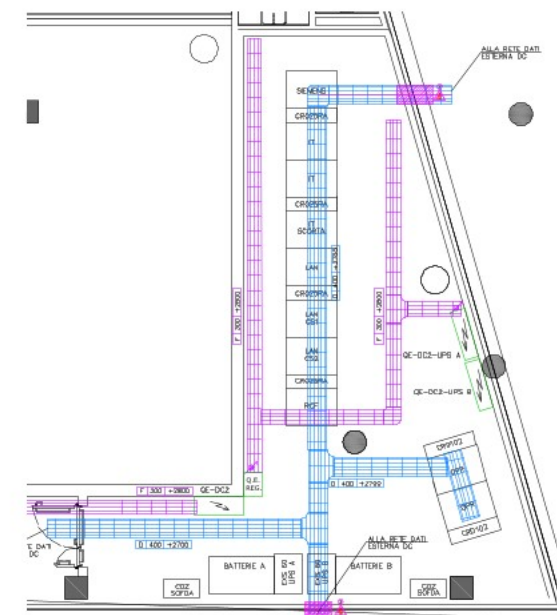
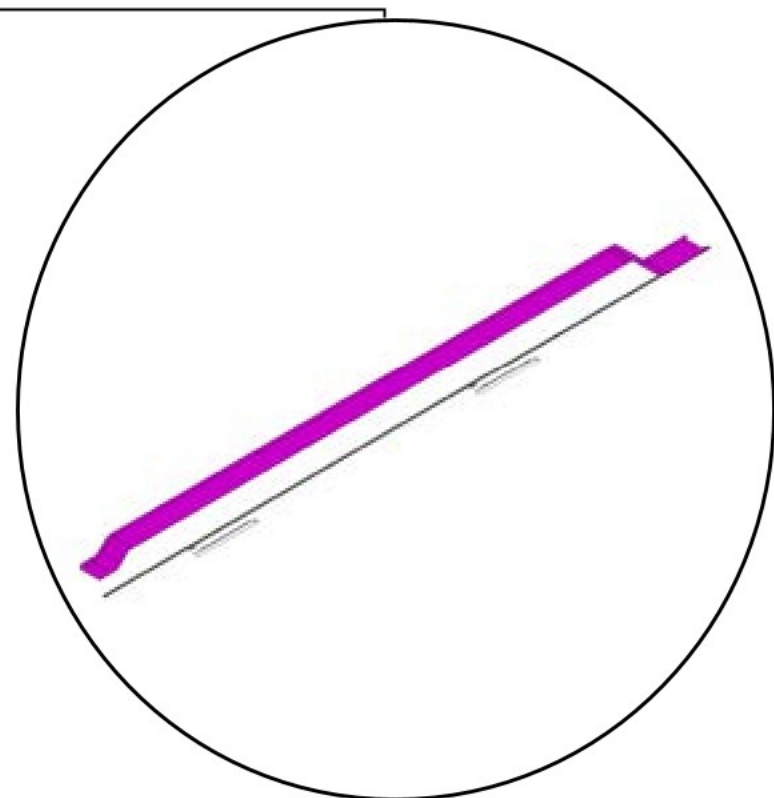
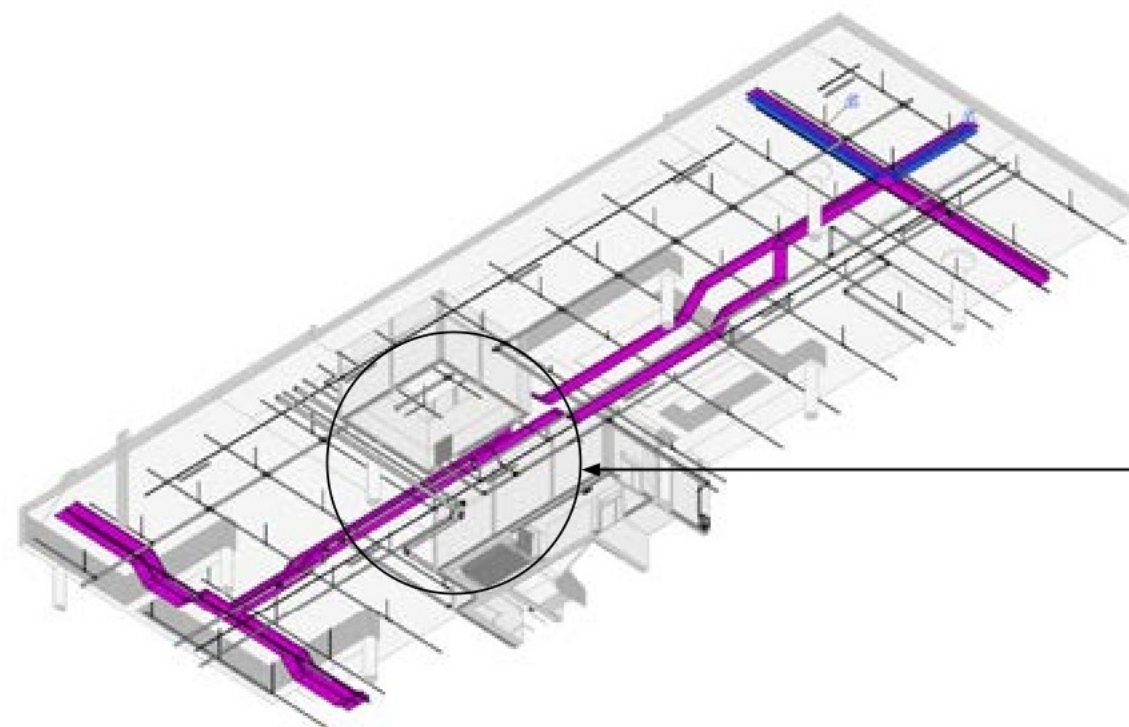


ELECTRICAL NETWORK
LEVEL B01 - UNDERGROUND CAR PARK

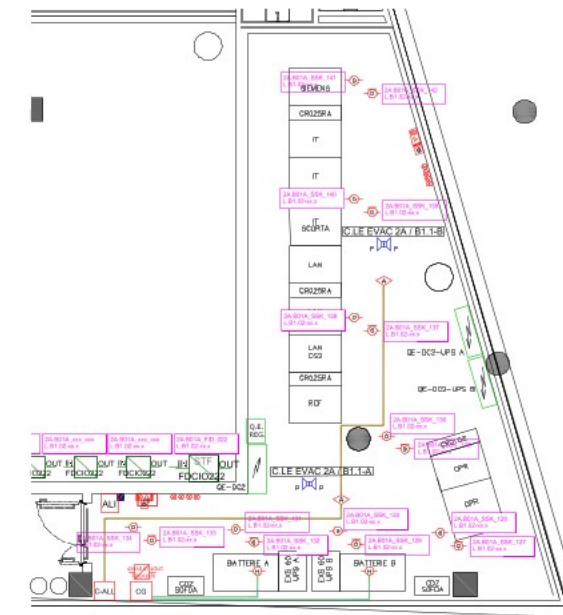


CABLE TRAYS / BUS BARS / LAMPS AND CONDUITS

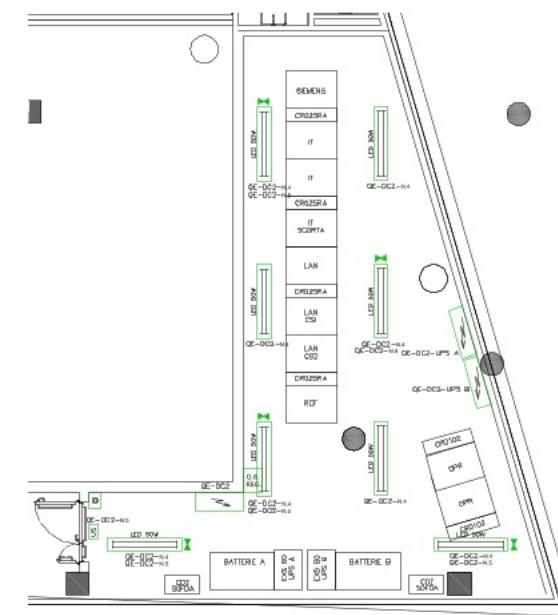




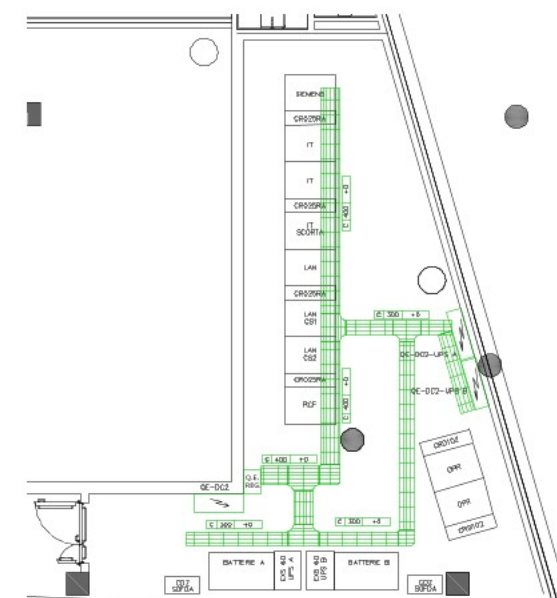
DATA ROOM - OVERHEAD DISTRIBUTION



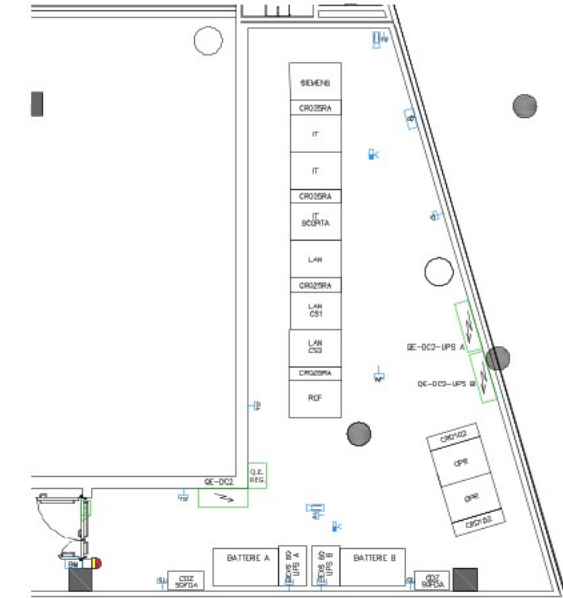
DATA ROOM - SAFETY DEVICES



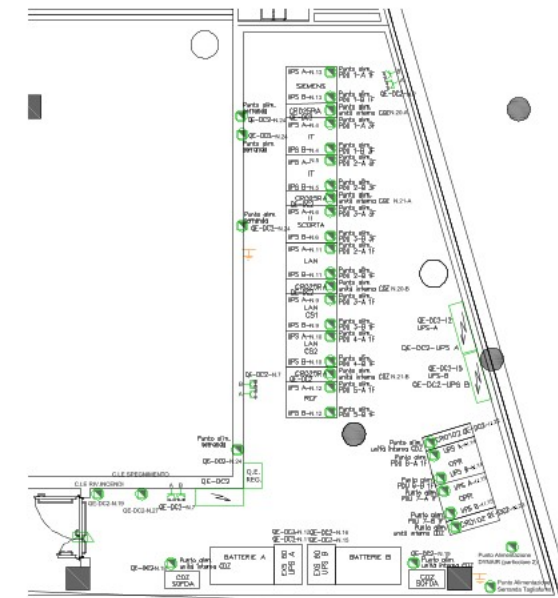
DATA ROOM - ILLUMINATION



DATA ROOM - UNDERFLOOR DISTRIBUTION



DATA ROOM - DATA DEVICES

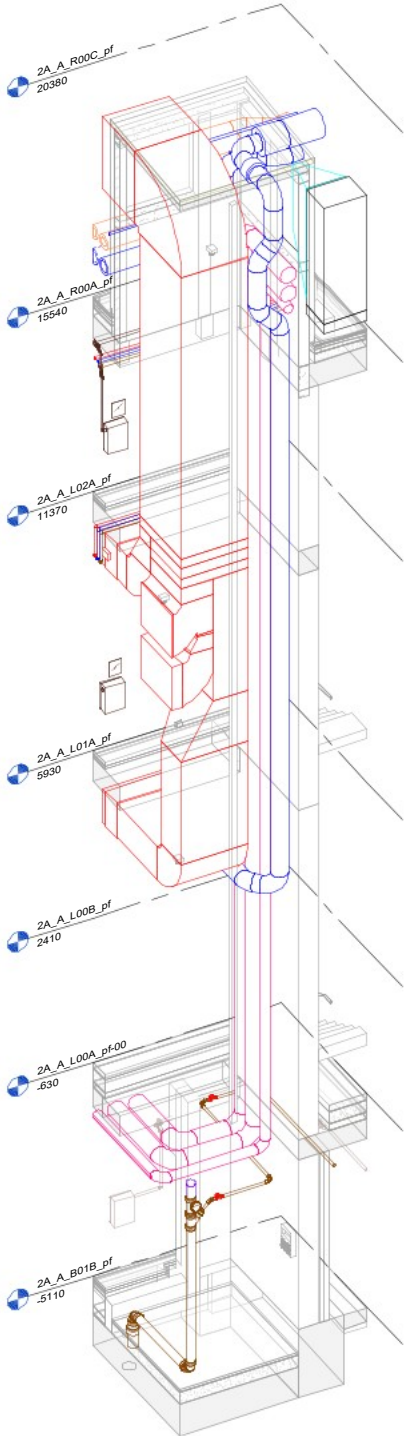
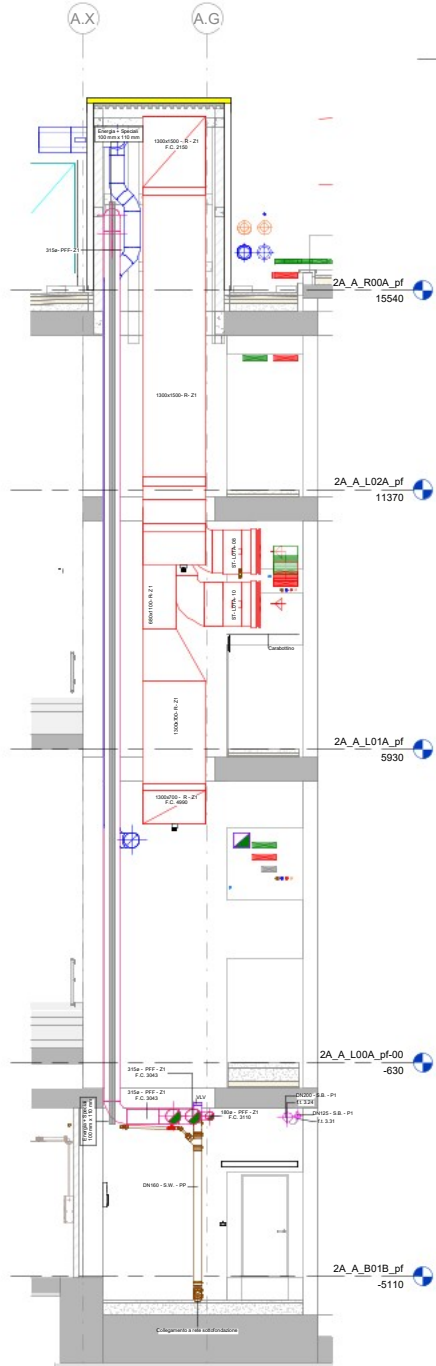
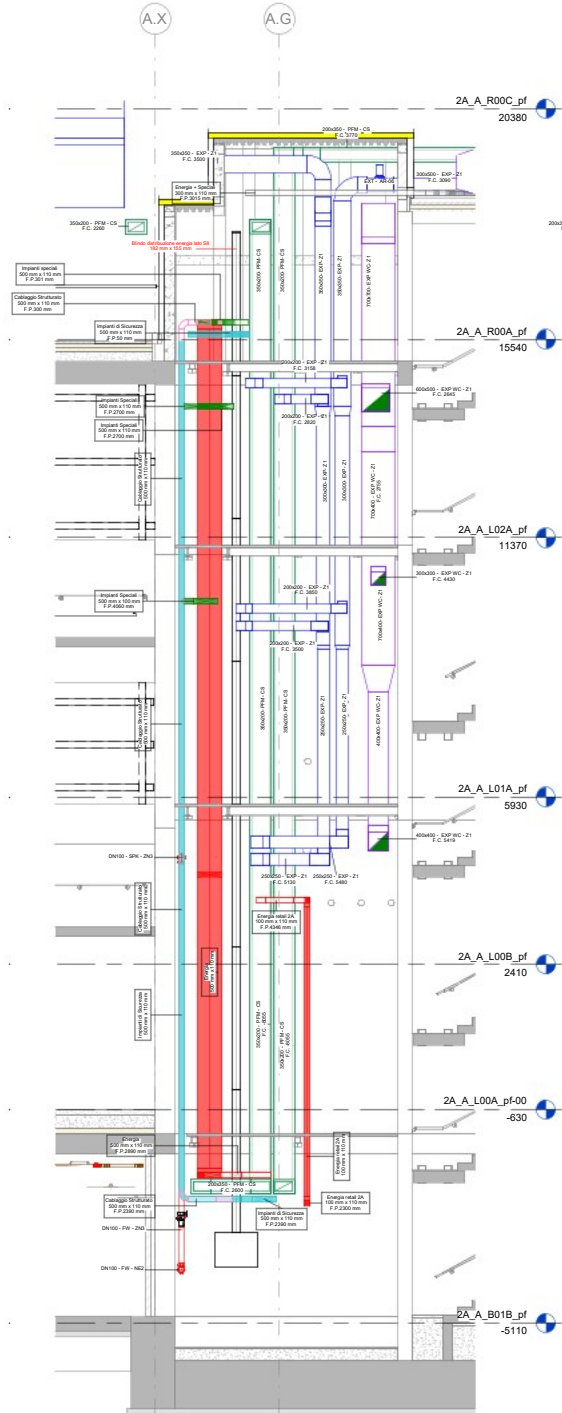
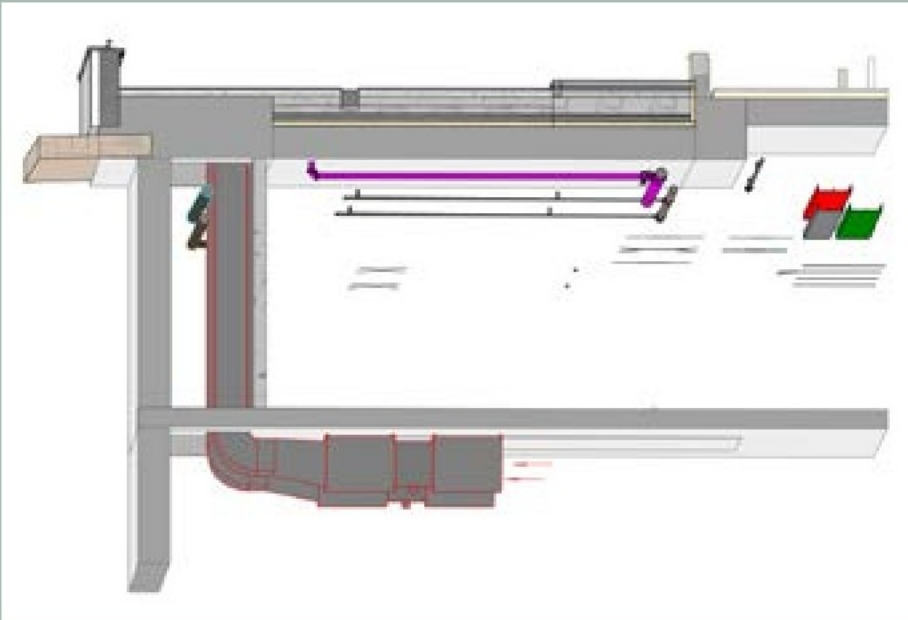
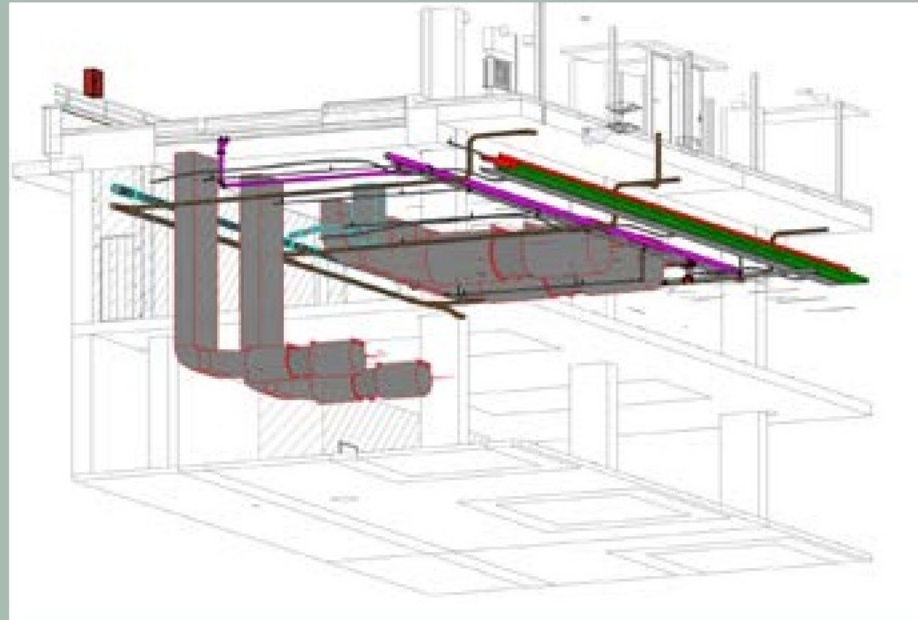
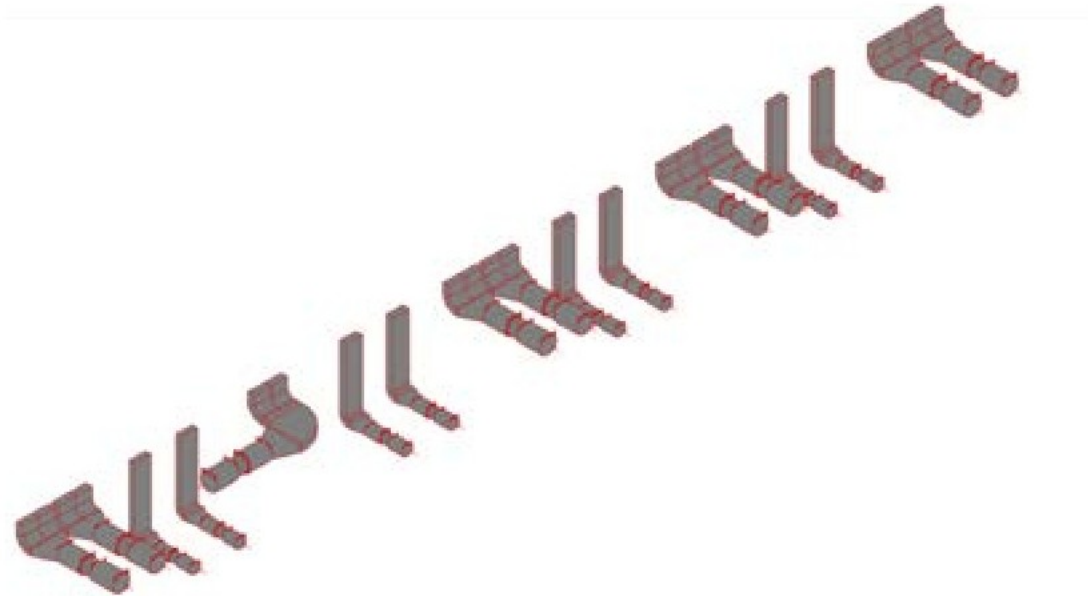


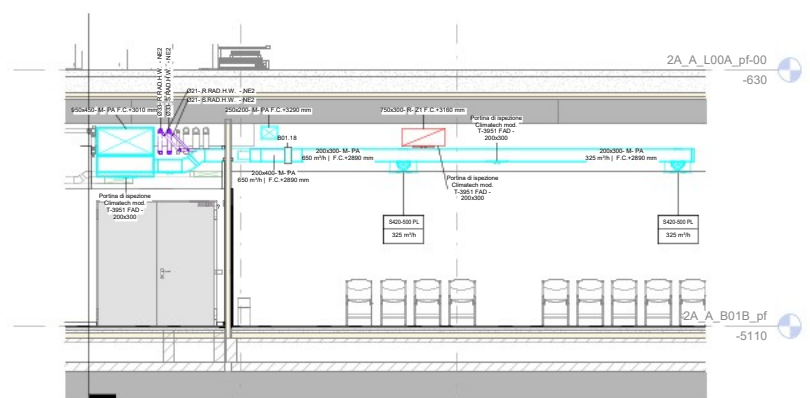
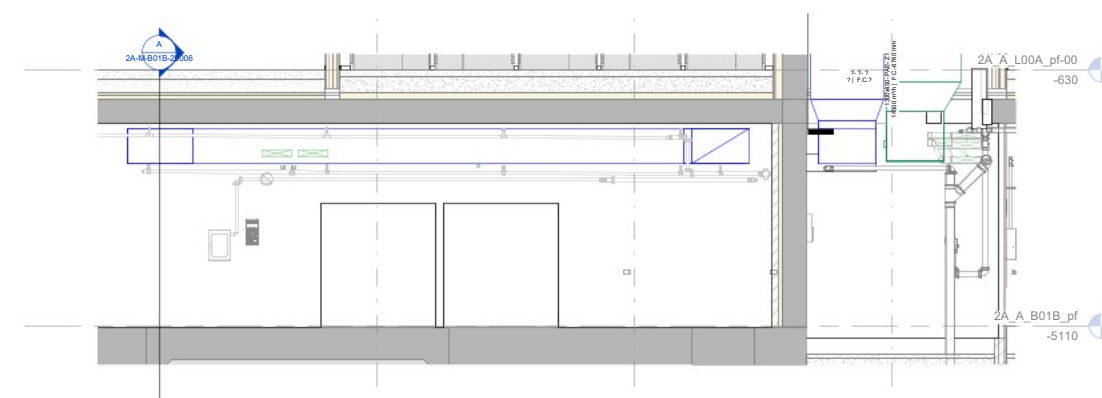
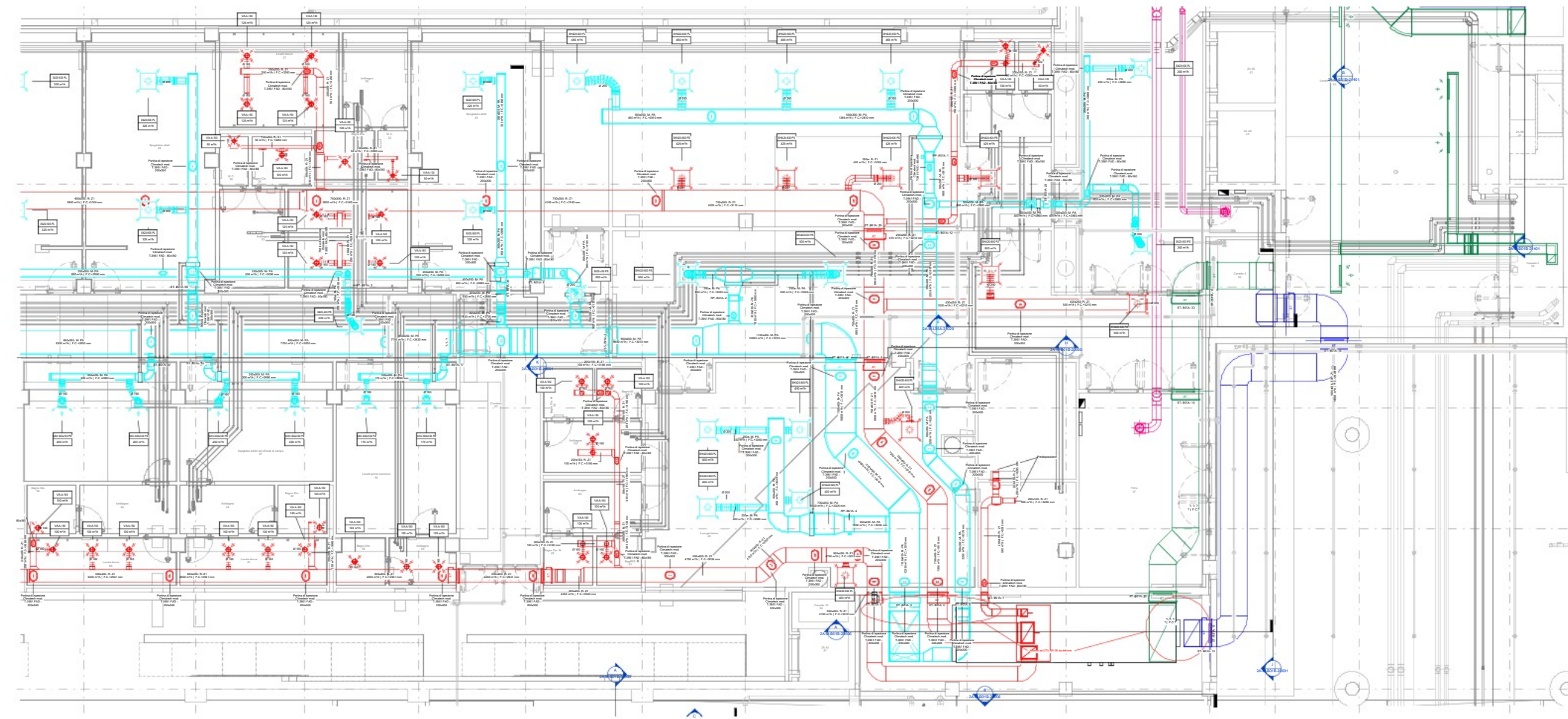
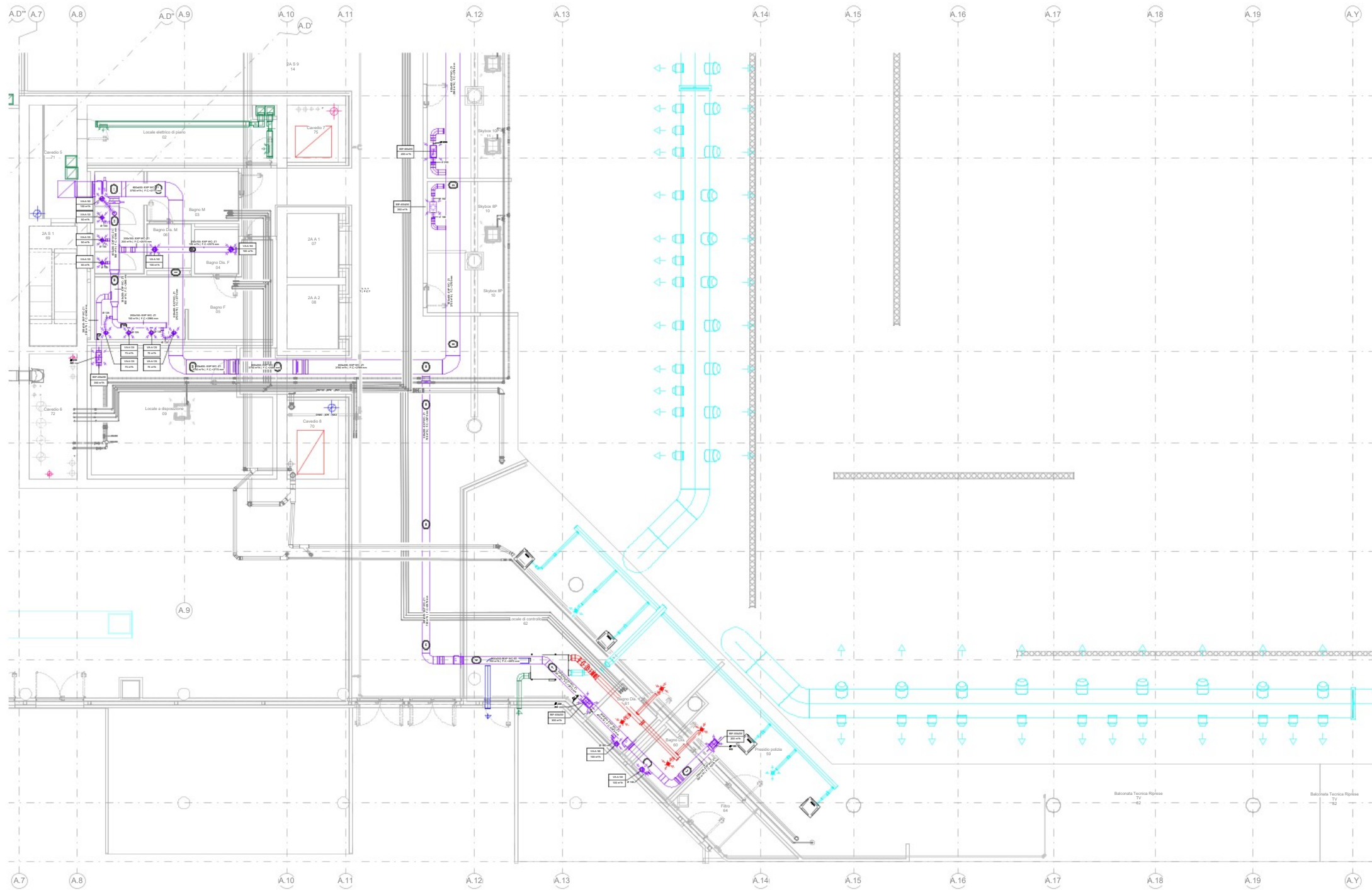
DATA ROOM - POWER SUPPLY

HVAC SYSTEM

1P - UNDERGROUND CAR PARK

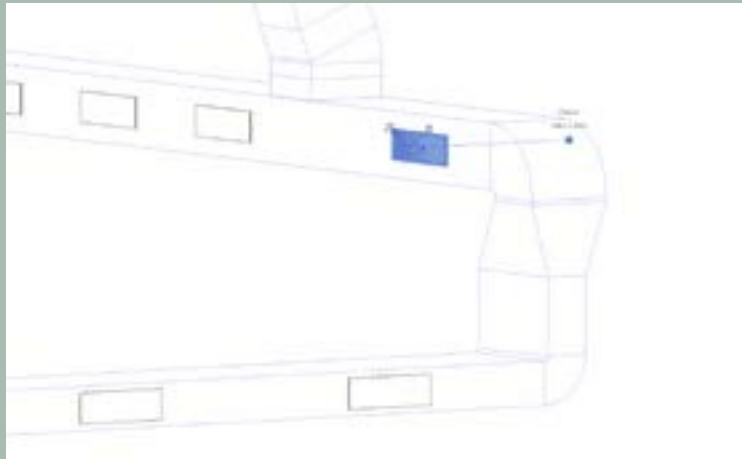
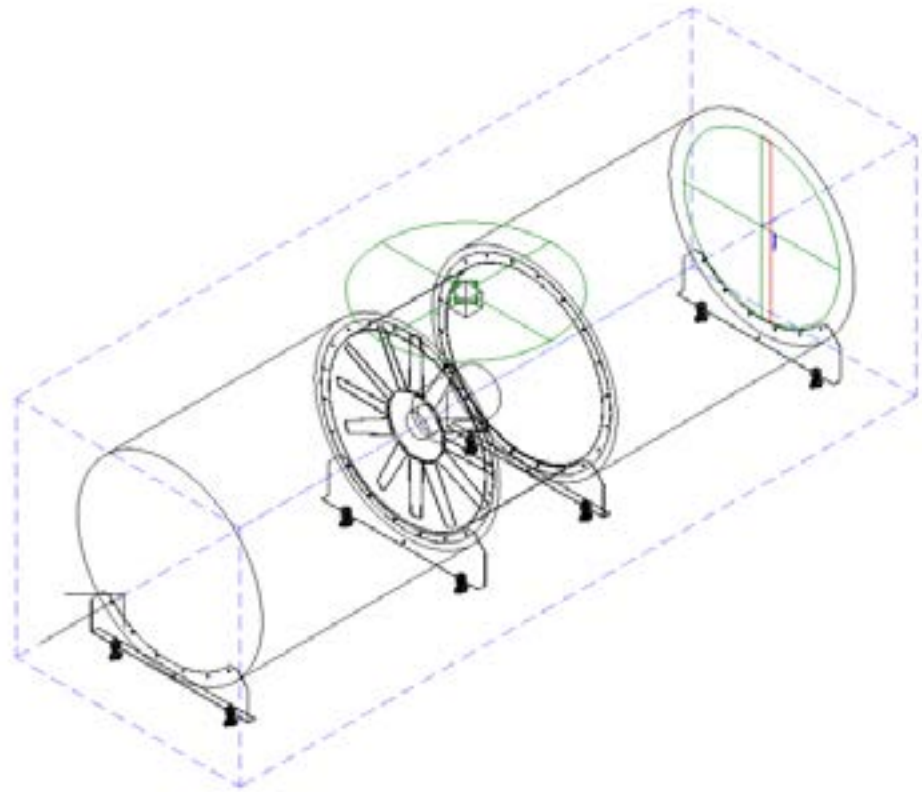
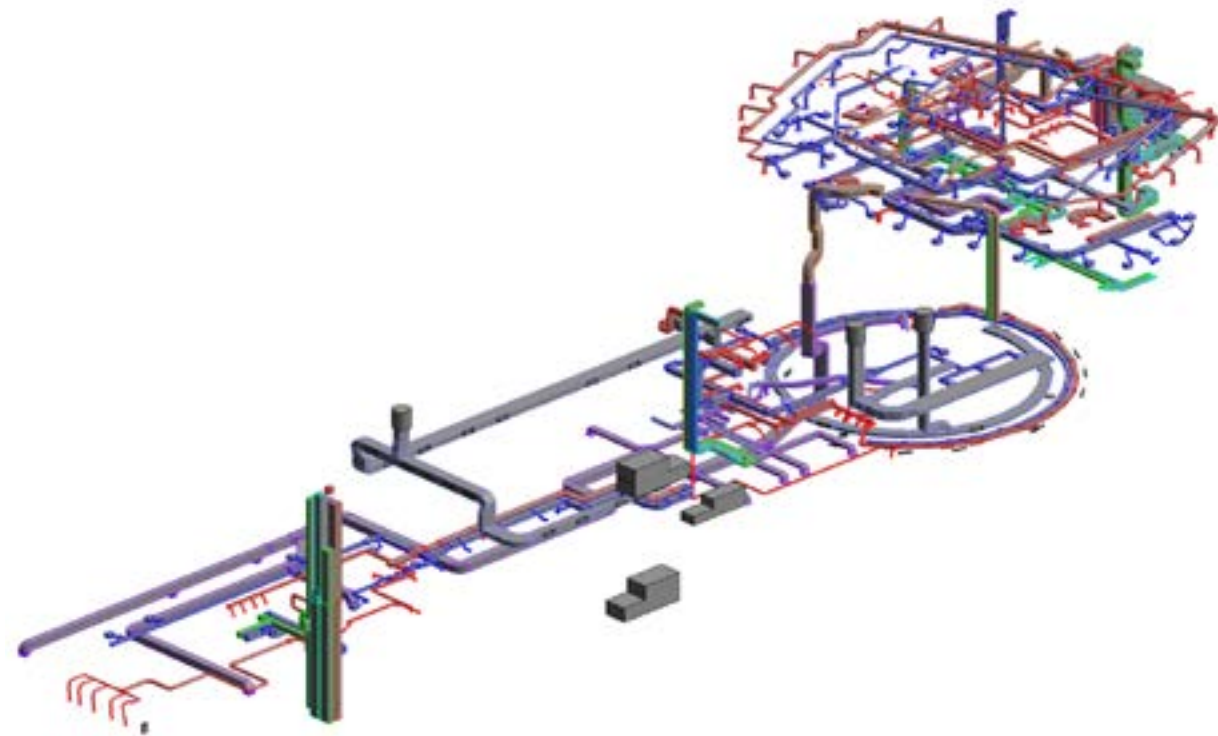
The process also involved the resolution of Mechanical Equipments, fittings and the definition of routing preferences. The extraction of schedules and quantities, and delivery of construction drawings for contractors and IFC files for further coordination of platforms like Revizto.



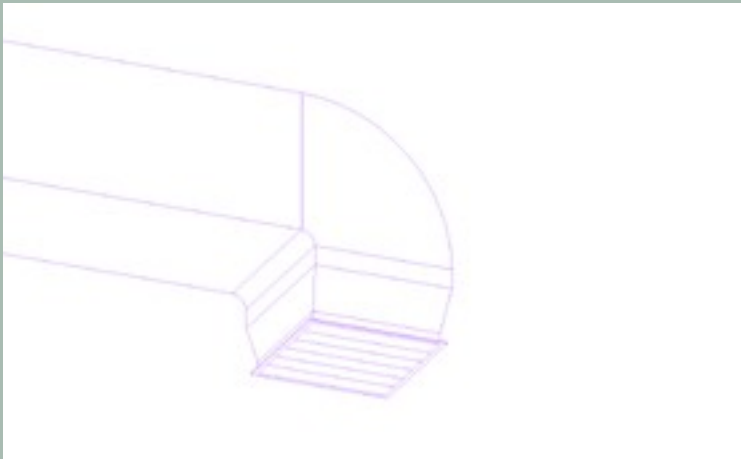


HVAC DISTRIBUTION

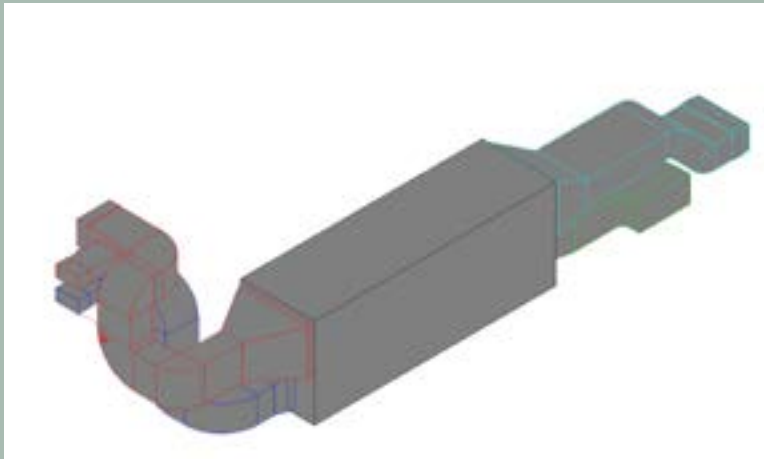
5N - WELLNESS CENTRE



SUPPLY TERMINAL



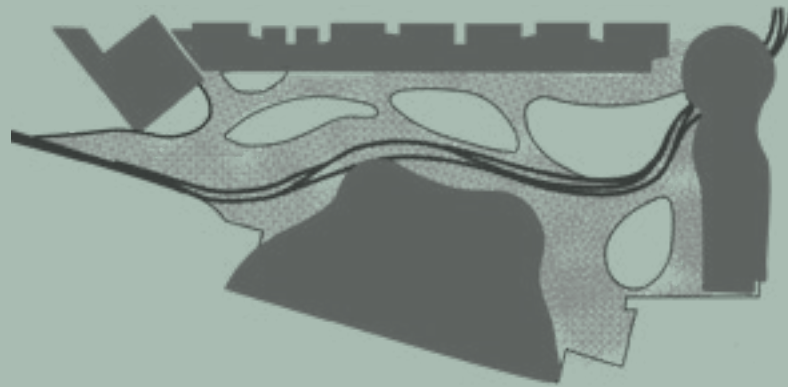
RETURN GRILL



AHU UNIT



RETURN GRILL



CHORUS LIFE BERGAMO