



# **ACURABIM ENGINEERS PVT. LTD.**

“Your Trust in Us, is Your Best Investment.”



## AREA OF BUSINESS

### **REVIT SERVICES**

**ACURA** Offers Revit MEP Services Right From Conceptual Design to Detailed Design. We Offer These Services Across Residential, Commercial and Mix-Use Projects.



### **MEP DESIGN SUPPORT**

**ACURA** Offer Design Support to all Mechanical and Plumbing Discipline as following.  
HVAC, Water Supply, Sanitary and Fire Protection.



# REVIT MEP CAPILITIES



❖ HVAC

❖ WATER SUPPLY

❖ SANITARY/ DRAINAGE

❖ FIRE PROTECTION

❖ LPG



❖ LIGHTING

❖ POWER

❖ FIRE ALARM

❖ CONTAINMENT

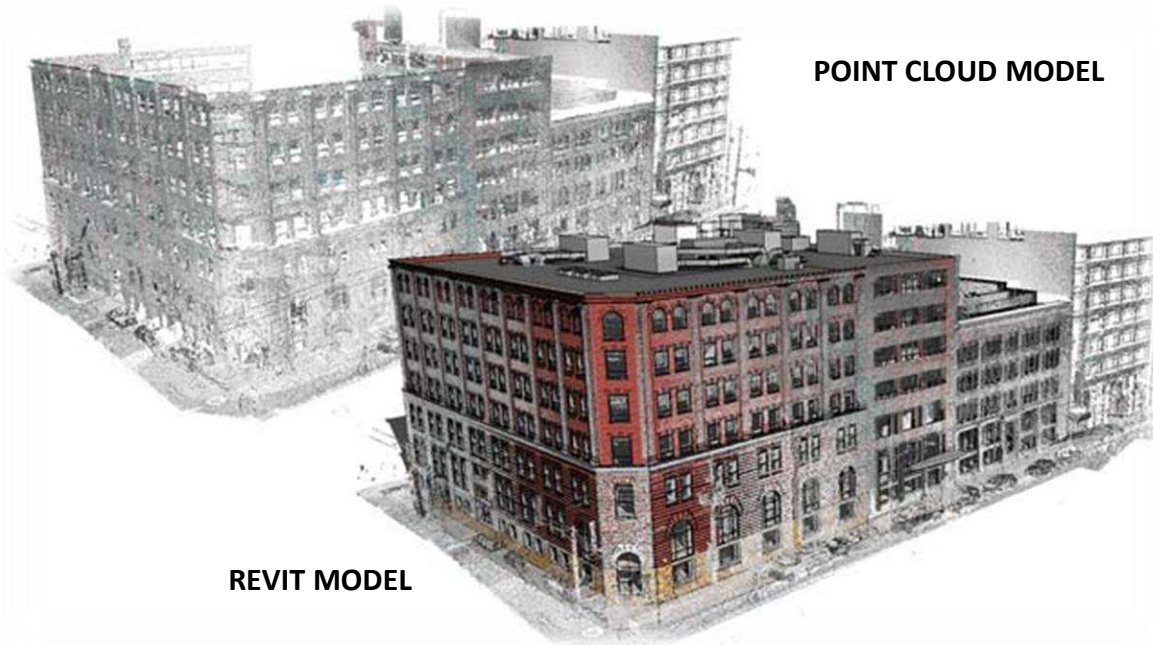
❖ SECURITY

❖ EARTHING/LIGHTNING PROTECTION



# REVIT MEP CAPILITIES

## WORK WITH POINT CLOUD FILES

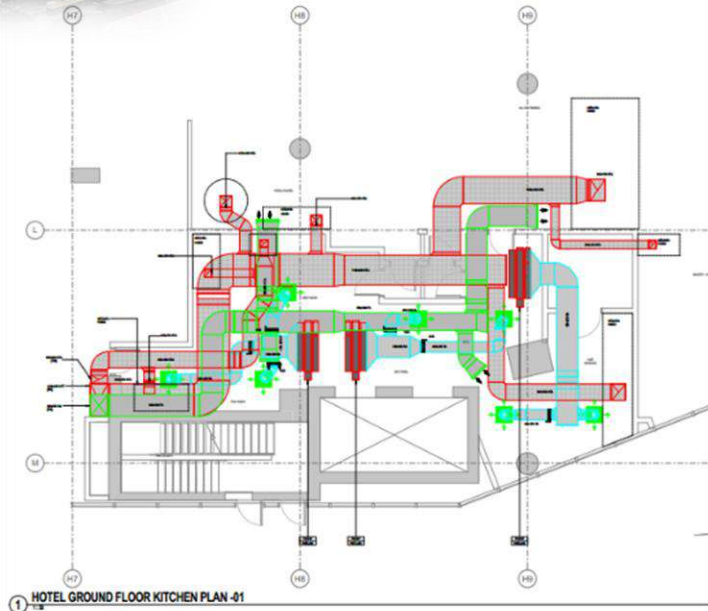


**POINT CLOUD MODEL**

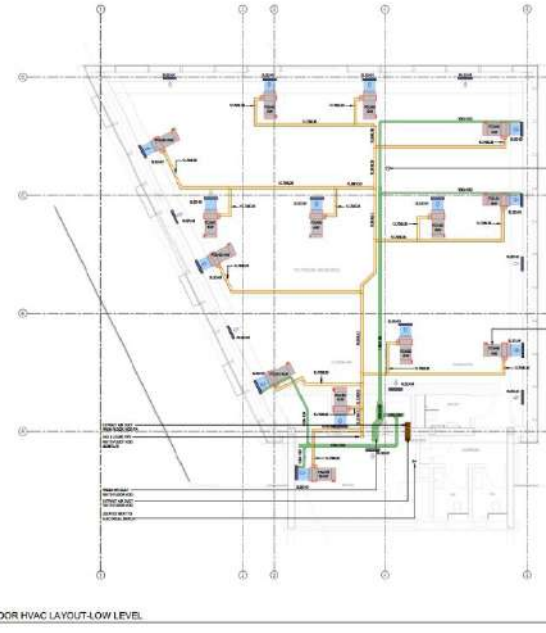
**REVIT MODEL**



# MECHANICAL REVIT MODELING



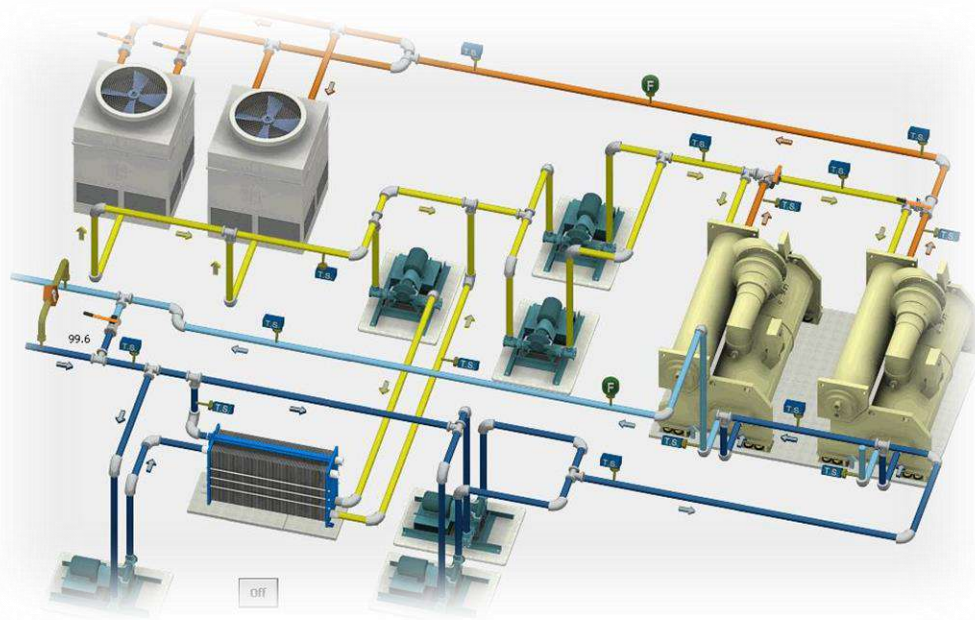
❖ DUCT LAYOUTS



❖ CHILLED WATER PIPING

# MECHANICAL REVIT MODELING AND DESIGN SUPPORT

## HVAC REVIT MODELING



❖ CHILLER PLANT ROOMS

❖ 3D VIEW REPRESENTATION

❖ PROPER EQUIPMENT SIZING AND CONNECTIONS

❖ VERIOUS SECTIONS FOR BETTER COORDINATION





# MECHANICAL DESIGN SUPPORT

❖ VENTILATION CALCULATIONS

❖ HEAT LOAD CALCULATION USING HAP AND TRANE TRACE

❖ DUCT DESIGN

❖ AIR BALANCING

❖ CHILLED WATER AND HOT WATER SIZING

❖ FLOW/SCHEMATIC DIAGRAMS

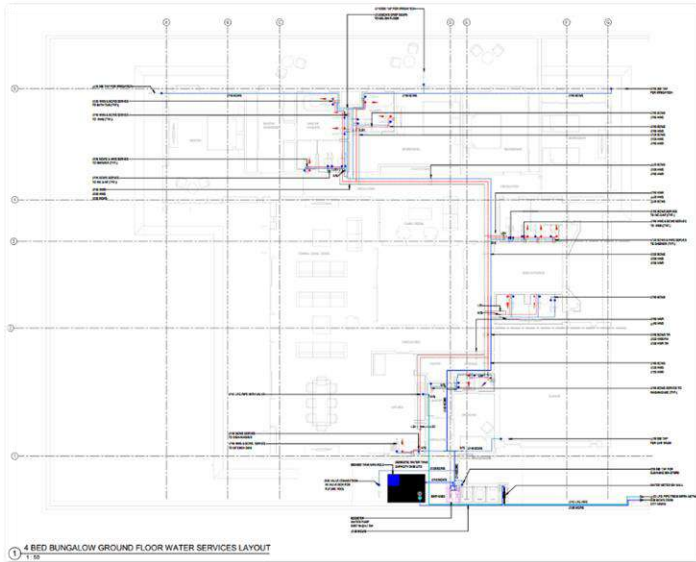
❖ USING ASHRAE/IECC/US STATE CODE BOOKS

❖ ENERGY CALCULATIONS USING ENERGY GAUGE USA AND ENERGY SUMMIT

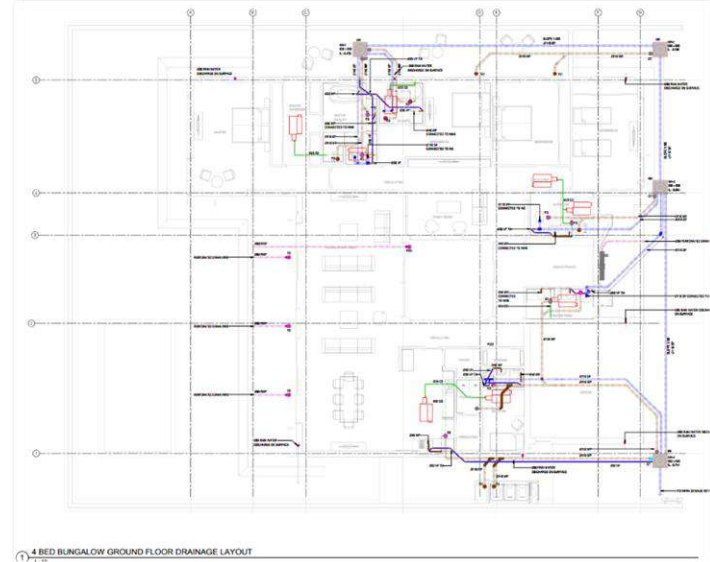
❖ EXTERNAL STATIC PRESSURE CALCULATIONS

# PUBLIC HEALTH SERVICES REVIT MODELING

## PUBLIC HEALTH SERVICES REVIT MODELING



❖ WATER SUPPLY SERVICES LAYOUT



❖ SANITARY SERVICES LAYOUT



# PUBLIC HEALTH SERVICES DESIGN SUPPORT

## WATER SUPPLY

❖ WATER SUPPLY LAYOUT

❖ WATER SUPPLY ISOMETRIC

❖ WATER PIPE SIZING

## SANITARY

❖ SANITARY LAYOUT

❖ SANITARY ISOMETRIC

❖ SANITARY PIPE SIZING

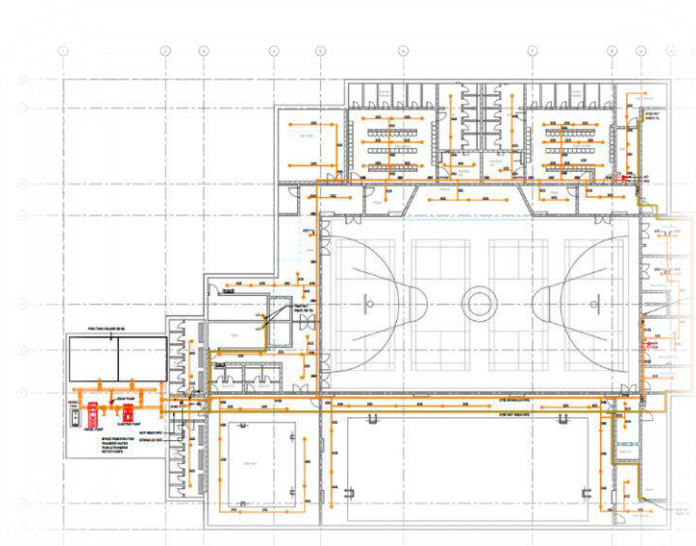
## STORM WATER

❖ STORM WATER LAYOUT

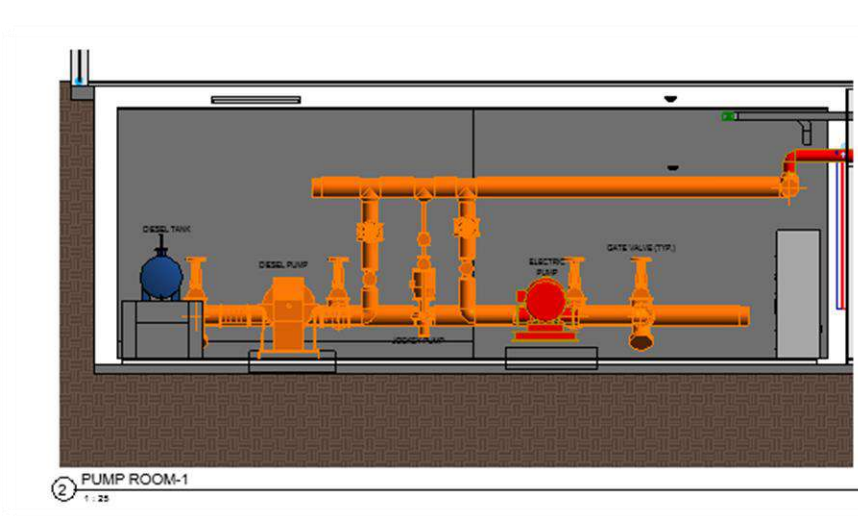
❖ STORM WATER ISOMETRIC

❖ STORM WATER PIPE SIZING

# FIRE PROTECTION REVIT MODELING



❖ FIRE PROTECTION LAYOUT



❖ FIRE PUMP ROOM

# FIRE PROTECTION DESIGN SUPPORT

❖ SPRINKLER PLACEMENT

❖ SPRINKLER PIPE SIZING

❖ DRY RISER AND WET RISER PIPING

❖ FIRE PUMP ROOM CONNECTIONS

❖ FIRE EXTINGUISHER AND FIRE  
BLANKETS LOCATIONS

❖ FIRE HYDRANT SYSTEM

❖ FIRE HOSE CABINET LOCATION AND  
SIZING



# ELECTRICAL SERVICES REVIT MODELING



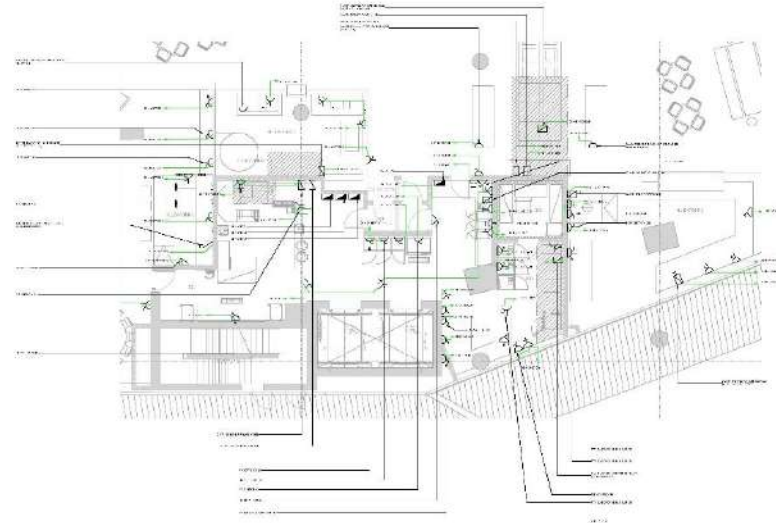
## LIGHTING SERVICES





# ELECTRICAL SERVICES REVIT MODELING

## POWER SERVICES



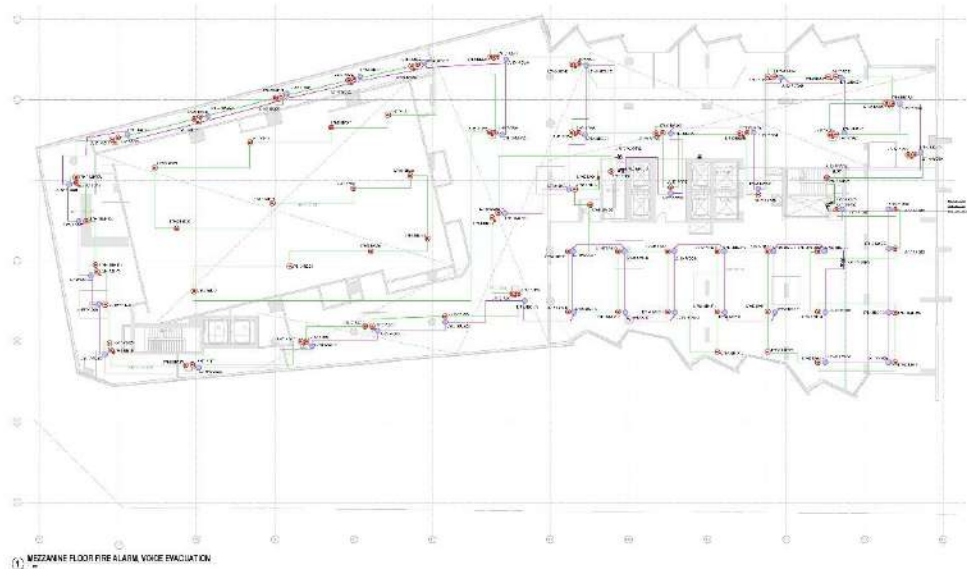
GROUND FLOOR KITCHEN LAYOUT PART 1



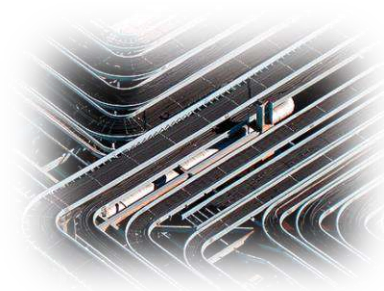
# ELECTRICAL SERVICES REVIT MODELING



## FIRE ALARM SERVICES

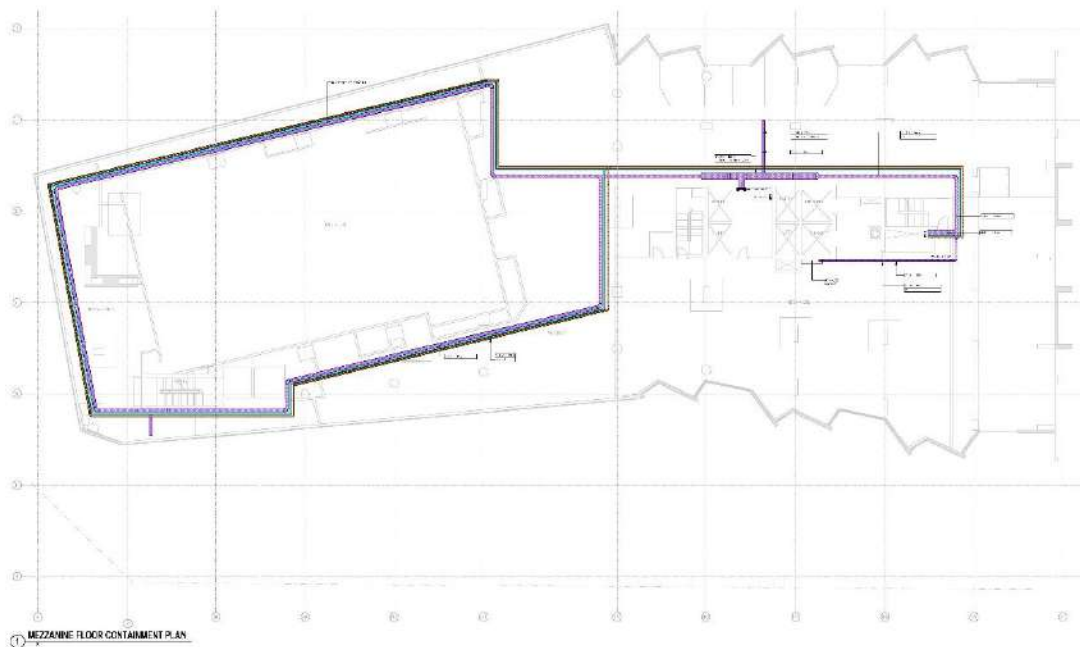






# ELECTRICAL SERVICES REVIT MODELING

## CONTAINMENT SERVICES

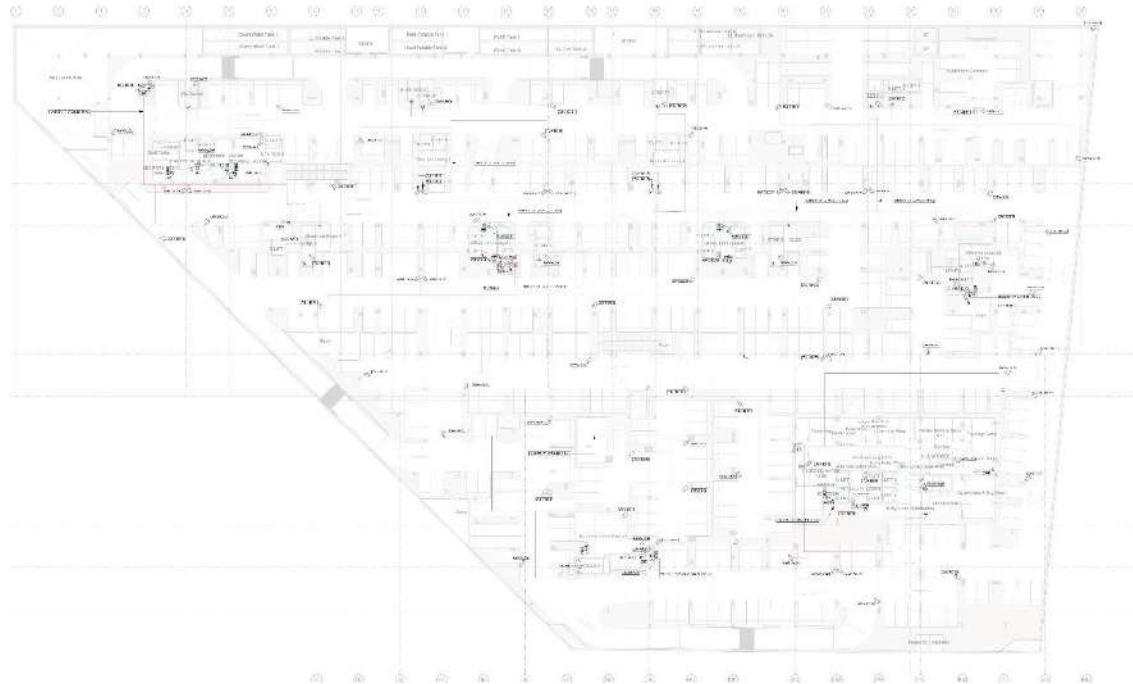


MEZZANINE FLOOR CONTAINMENT PLAN



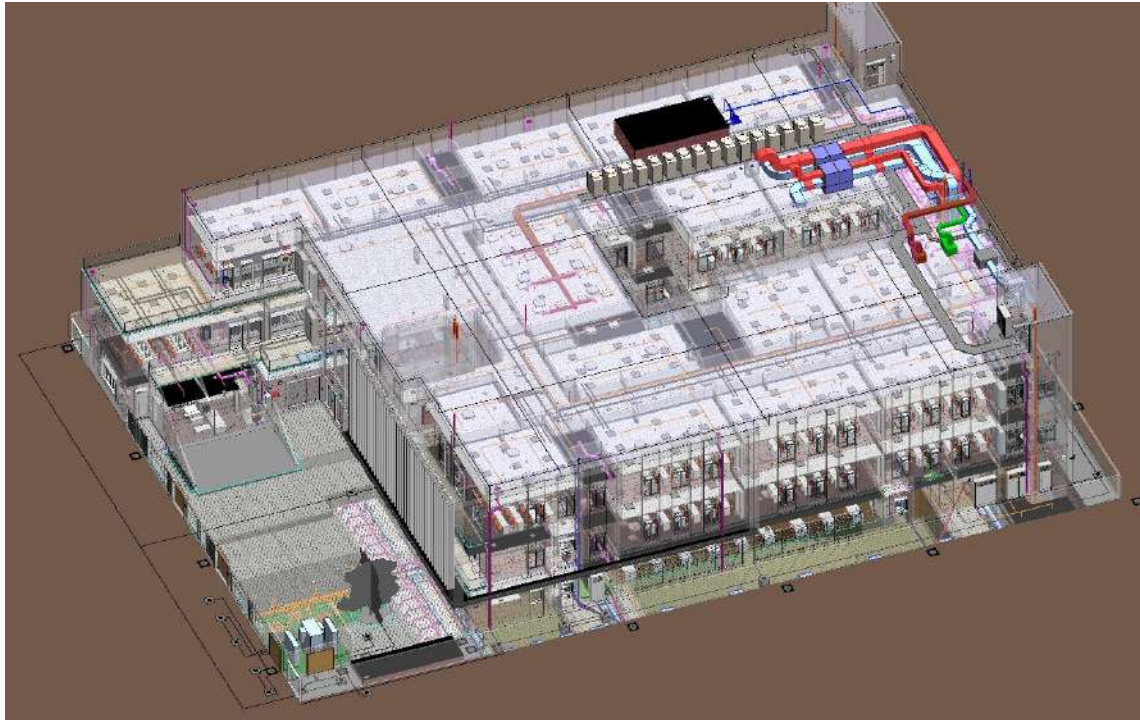
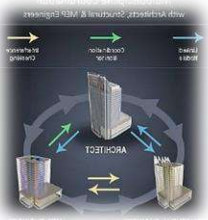
# ELECTRICAL SERVICES REVIT MODELING

## SECURITY SERVICES





# MODEL CO-ORDINATION AND CLASH DETECTION



- ❖ RCP CO-ORDINATION
- ❖ MEP SERVICES CO-ORDINATION
- ❖ CLASH DETECTION AND RESOLUTION USING NAVISWORK AND REVIT
- ❖ FINAL REPRESENTATION OF MODEL USING 3D VIEWS INCLUDING ALL SERVICES.
- ❖ EQUIPMENT SCHEDULING AND QUANTITY ESTIMATION.

INPUT

PROCESS

OUTPUT

# REQUIRE INPUTS AND DESIRE OUTPUT FOR REVIT PROJECTS

1

## REQUIRE INPUT

- ❖ ARCHITECTURE 3D MODEL
- ❖ SERVICE PLANS- AUTO CAD OR HAND MARKUPS
- ❖ REFLECTED CEILING PLAN

1

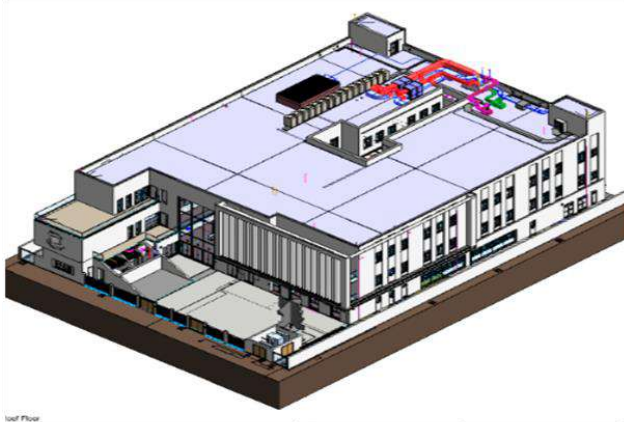
## DESIRE OUTPUT

- ❖ REVIT CO-ORDINATED MODEL
- ❖ DWG AND PDF FILES FOR ALL SERVICES
- ❖ CO-ORDINATED REFLECTED CEILING LAYOUTS

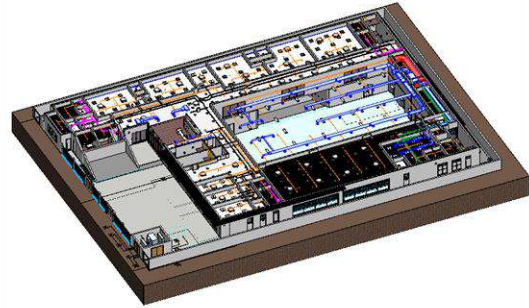




# SOME VIEWS TO EXPLORE MORE

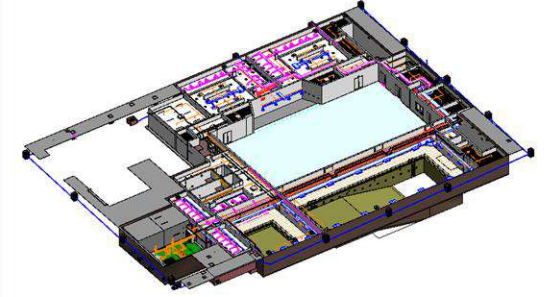


**OVERALL BUILDING  
PRIVATE SCHOOL PROJECT**



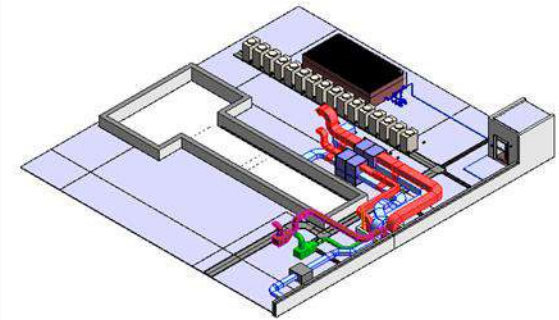
① GROUND FLOOR

**GROUND FLOOR MEP SERVICES**



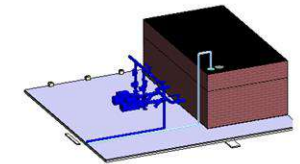
① LOWER GROUND FLOOR

**LOWER GROUND FLOOR MEP SERVICES**

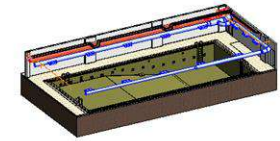


① ROOF MEP

**ROOF MEP SERVICES**



① DOMESTIC WATER PUMP ROOM



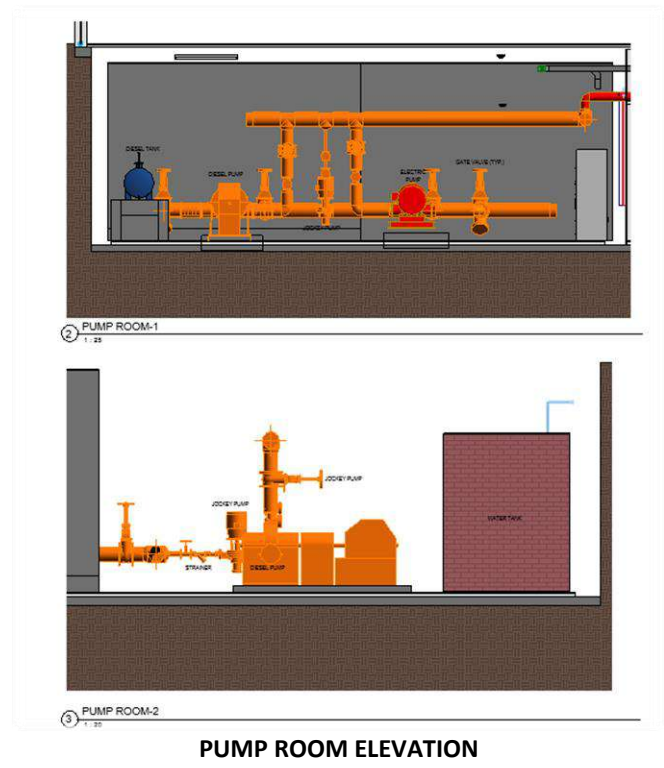
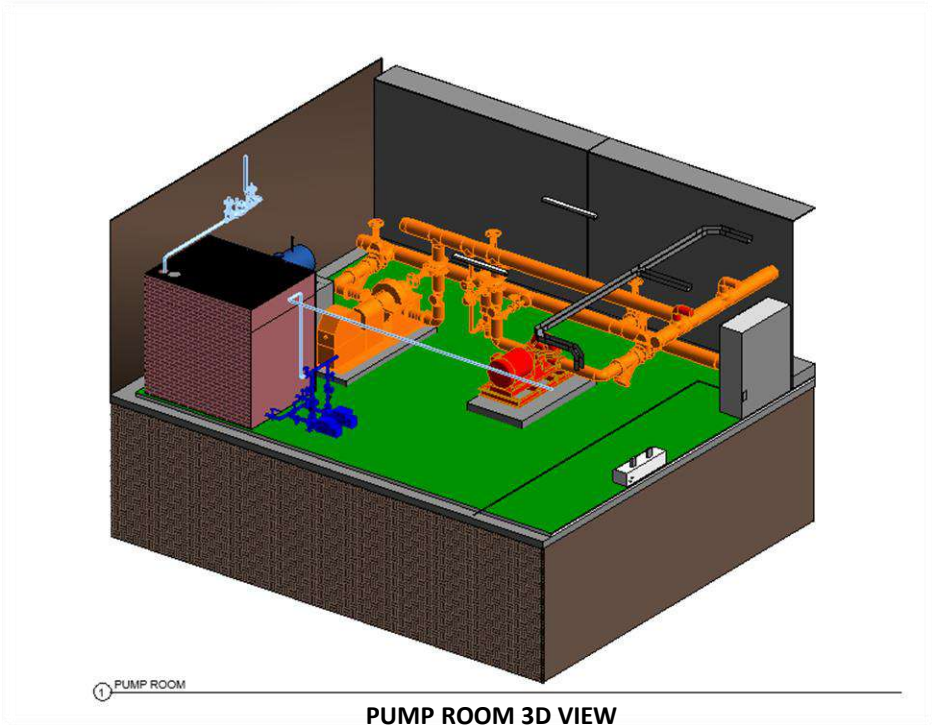
② POOL AREA

**DOMESTIC WATER PUMP AND POOL AREA HVAC**



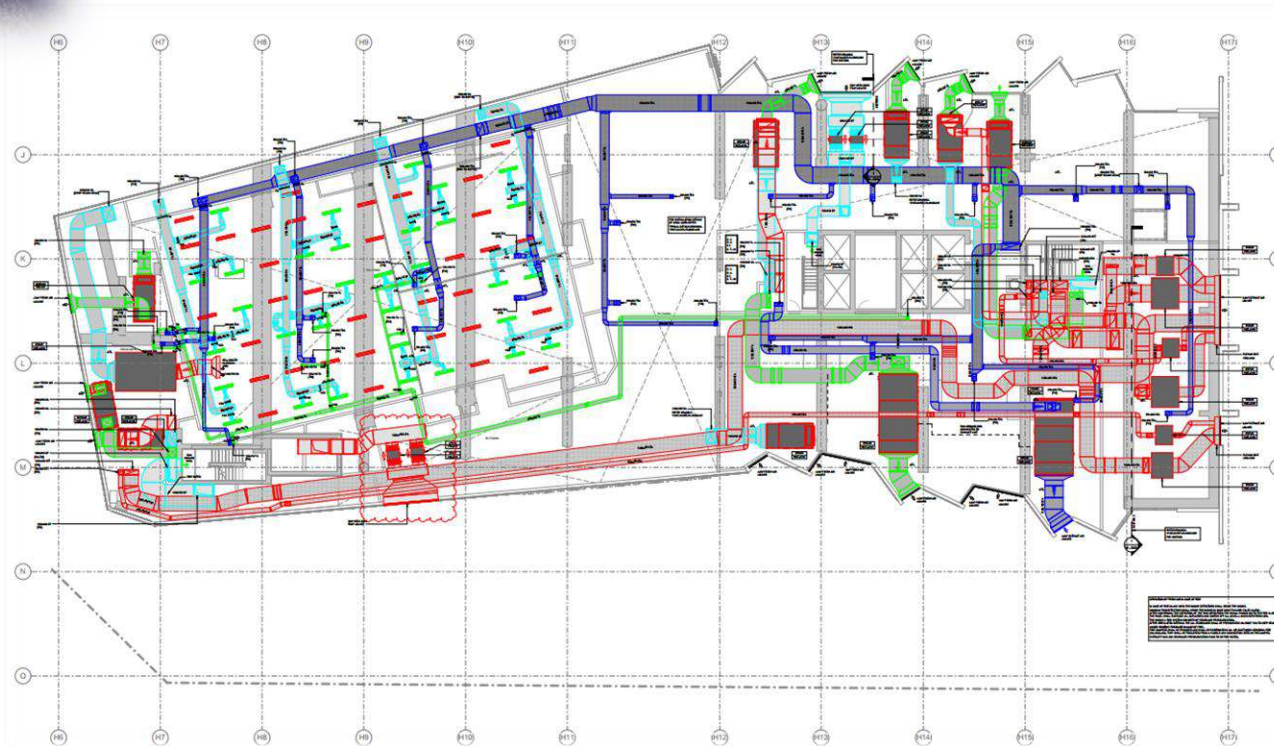


# SOME VIEWS TO EXPLORE MORE



EXPLORE

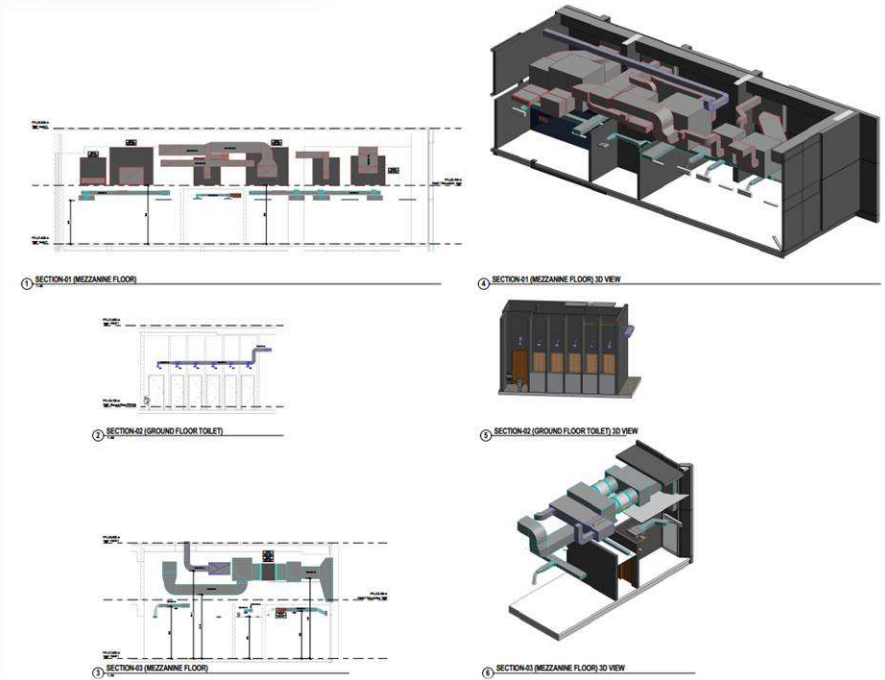
# SOME VIEWS TO EXPLORE MORE



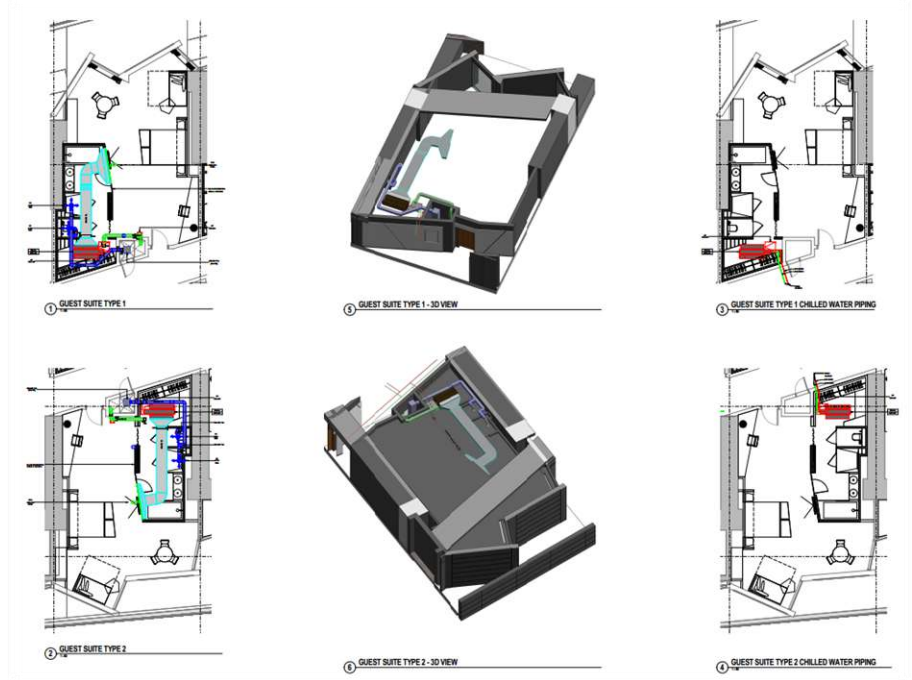
**OVERALL HVAC PLAN  
HOTEL BUILDING**



# SOME VIEWS TO EXPLORE MORE



**3D VIEWS AND SECTIONS OF CRITICAL AREAS OF HOTEL BUILDING**



**REPRESENTATION OF TYPICAL APPTMENT FOR HOTEL BUILDING**



# WHY US



## CONTACT US

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THANK  
YOU