

# EMBRACING DIGITAL TECHNOLOGY IN THE BUILT ENVIRONMENT

TIME : 09.00 - 13.00

VENUE: VIRTUAL VIA ZOOM

Topic No. 2:
Building Information Modelling (BIM)
Adoption in Building Construction



















# ISO 19650-1&-2:2018 Certified



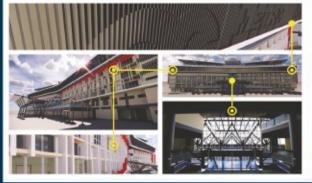






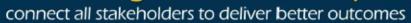




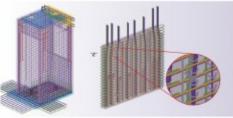




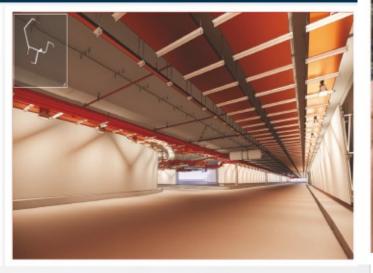
#### Virtual Design & Construction (VDC)







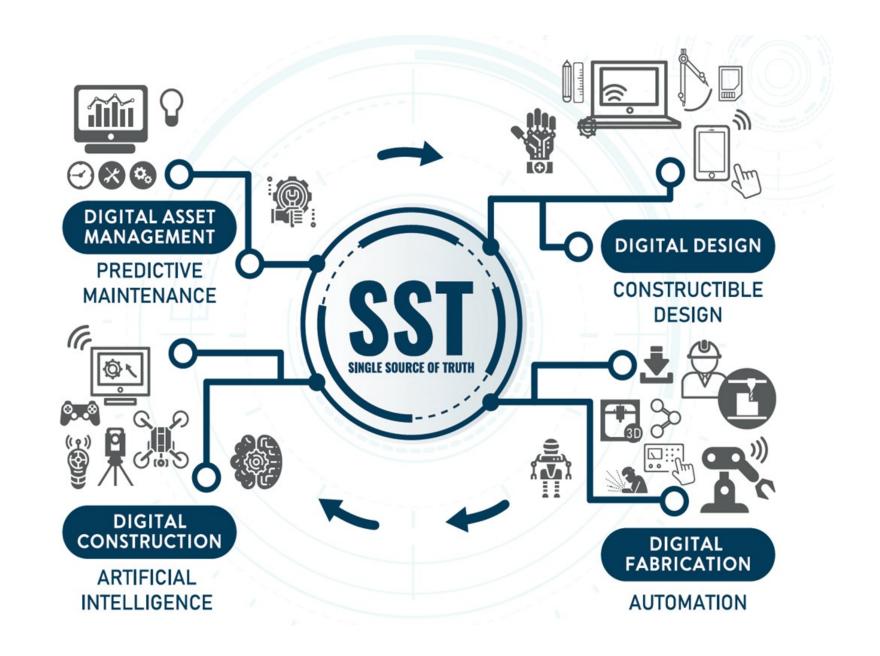






#### **BACKGROUND**

" ..... We listen to your business operation needs, We streamline work processes and connecting stakeholders through digital data, innovation, technology across project life cycle from planning, design, construction, fabrication to facilities management to deliver better outcomes for end users ..... "



### **Why Digital Transformation?**

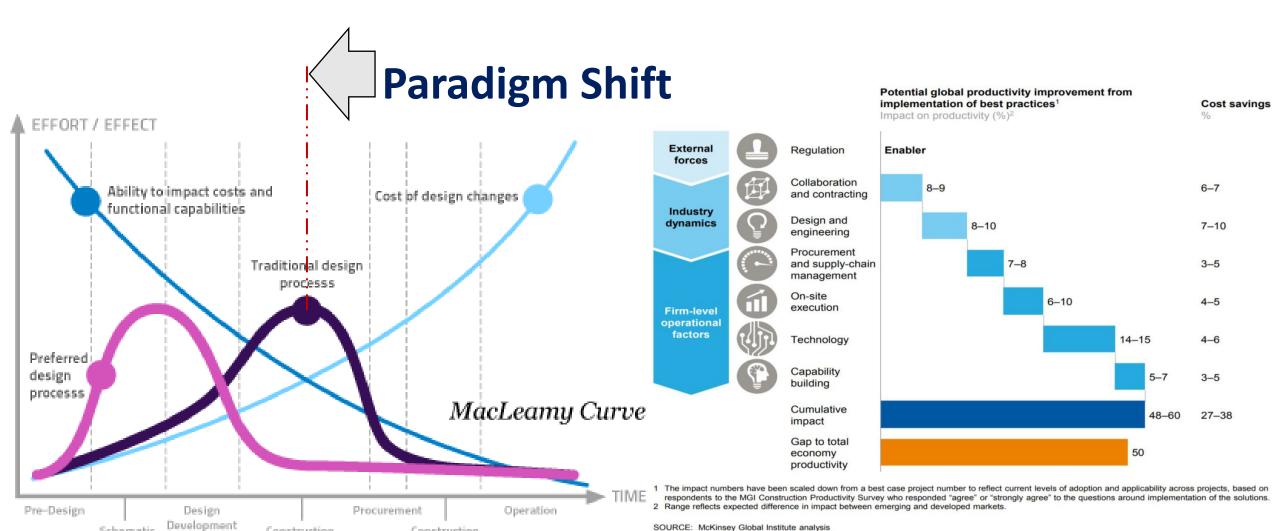
Construction

Documentation

Construction Administration

Schematic

Design



#### **OUR SOLUTIONS**







IFC 2x3, IFC4



**COBie 2.4** 



#### **Actual Project - Residential**

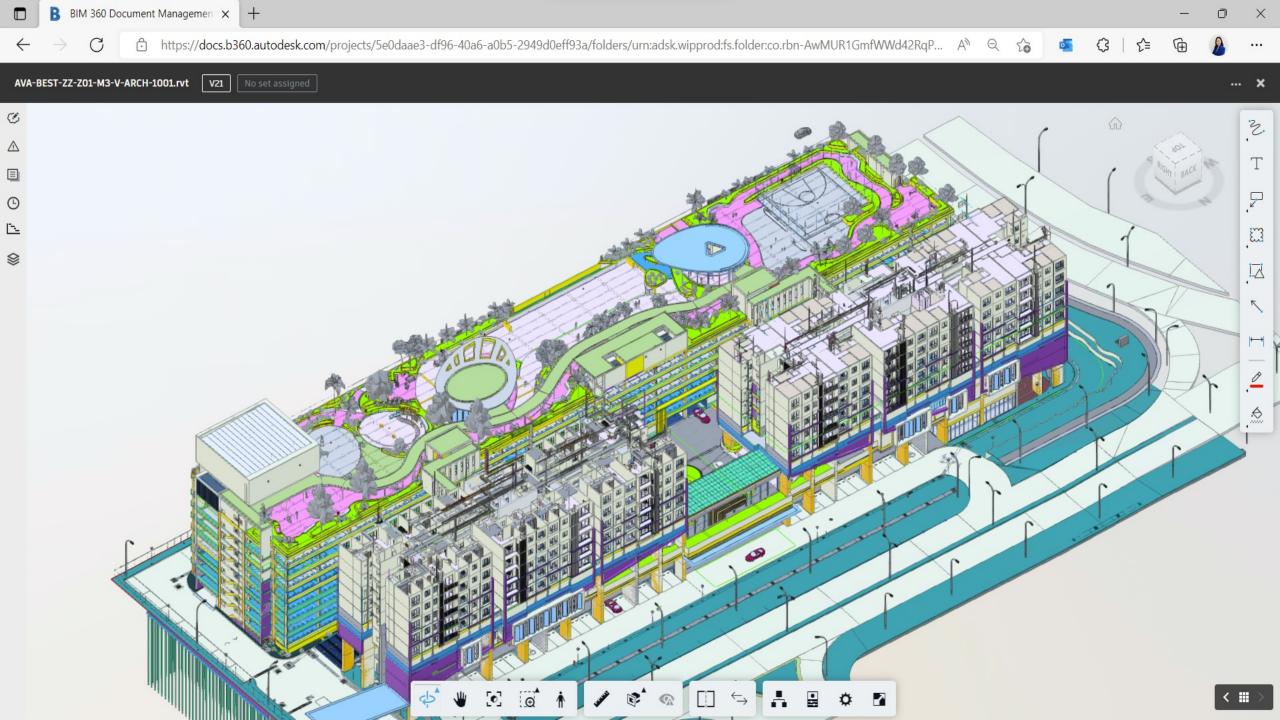
**Project Status:** Construction Stage

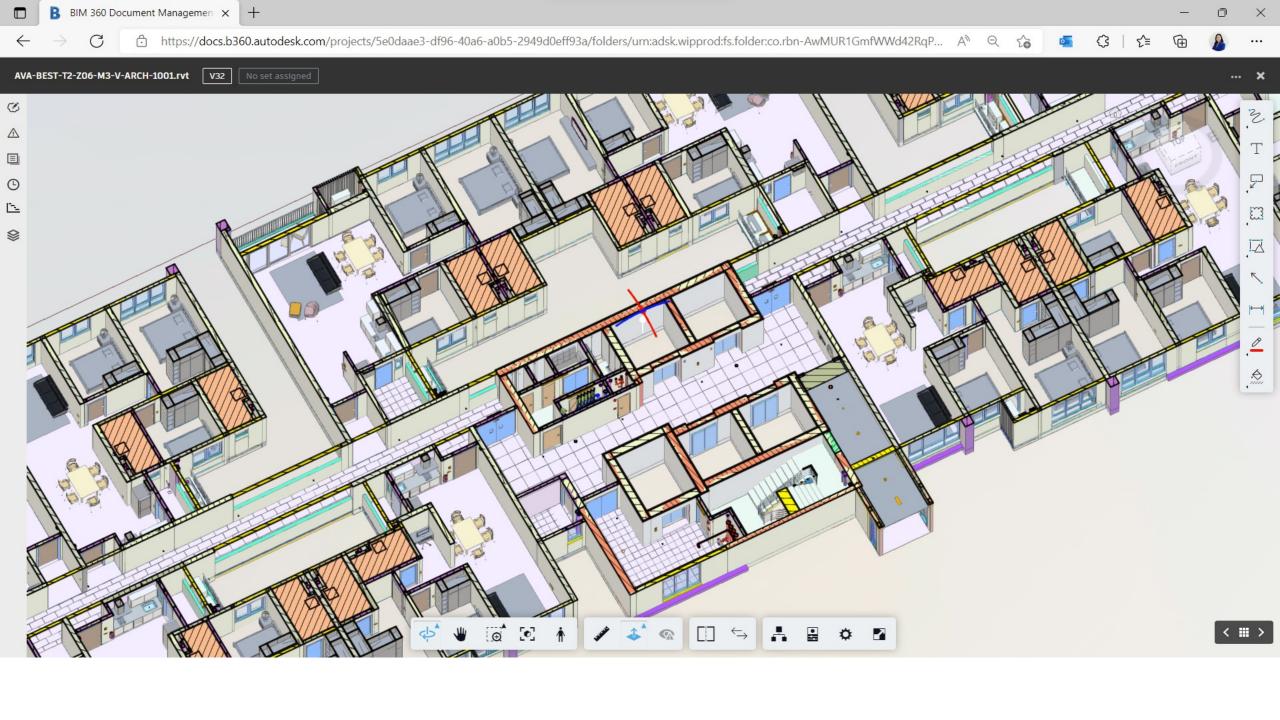
BIM S.O.W: Project BIM Modelling

(LOD500) c/w Asset Information Data









## **Actual Project - Residential**

**Project Status:** 

Construction Stage

BIM S.O.W:

Project BIM Modelling (LOD500) c/w Asset Information Data



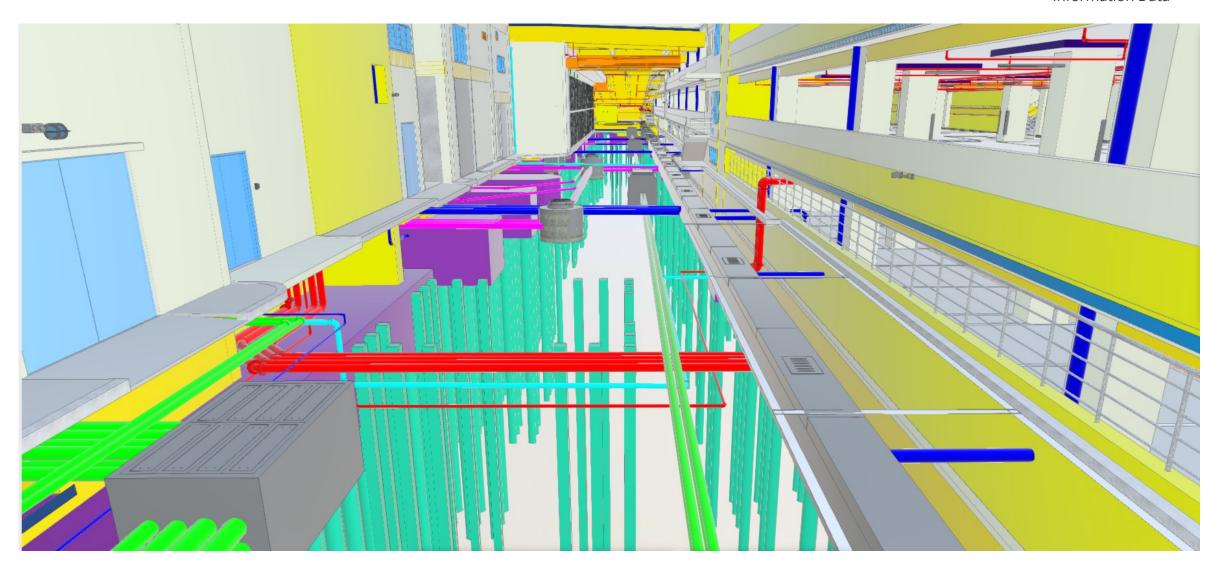
## **Actual Project - Residential**

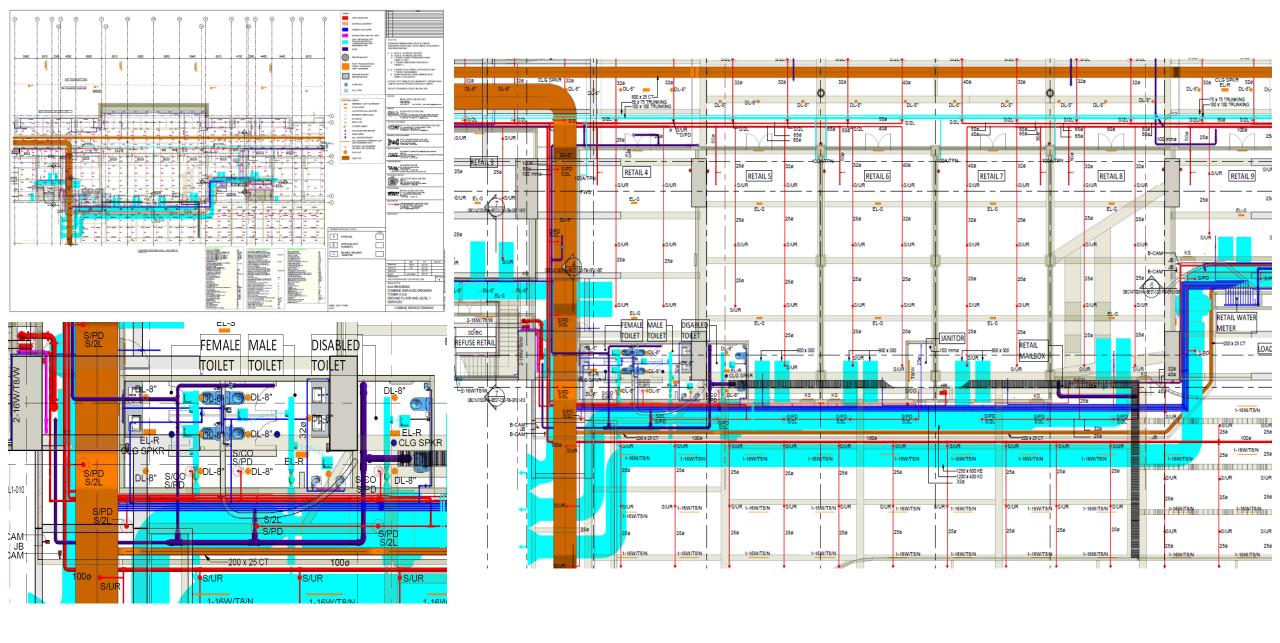
**Project Status:** 

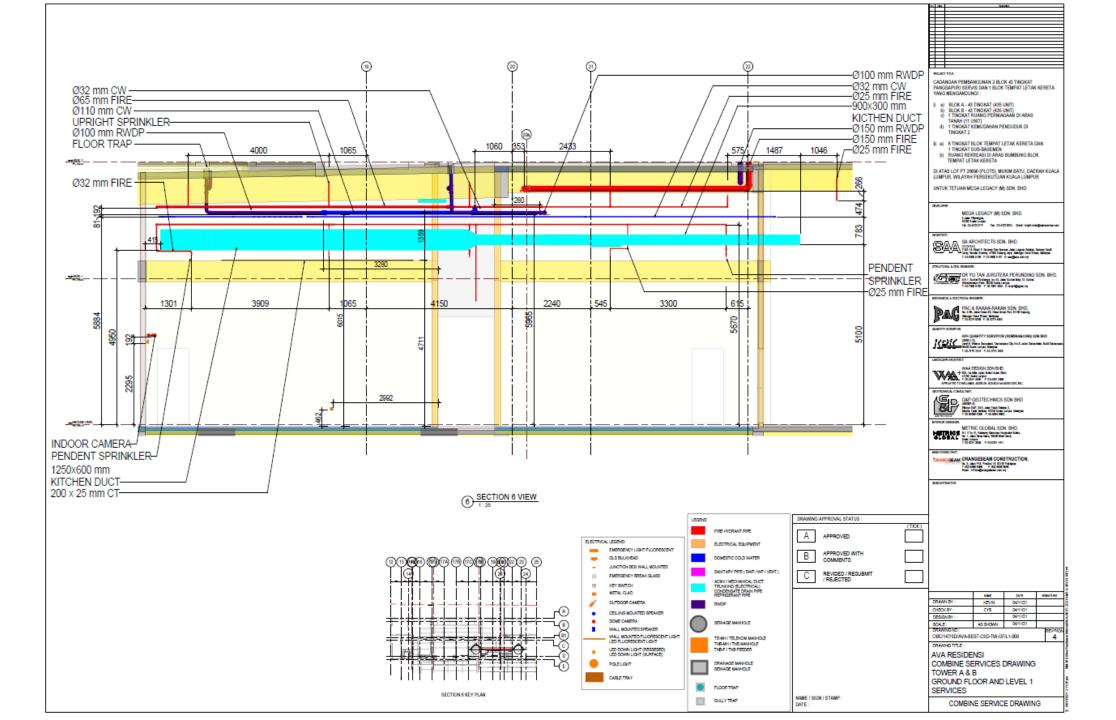
Construction Stage

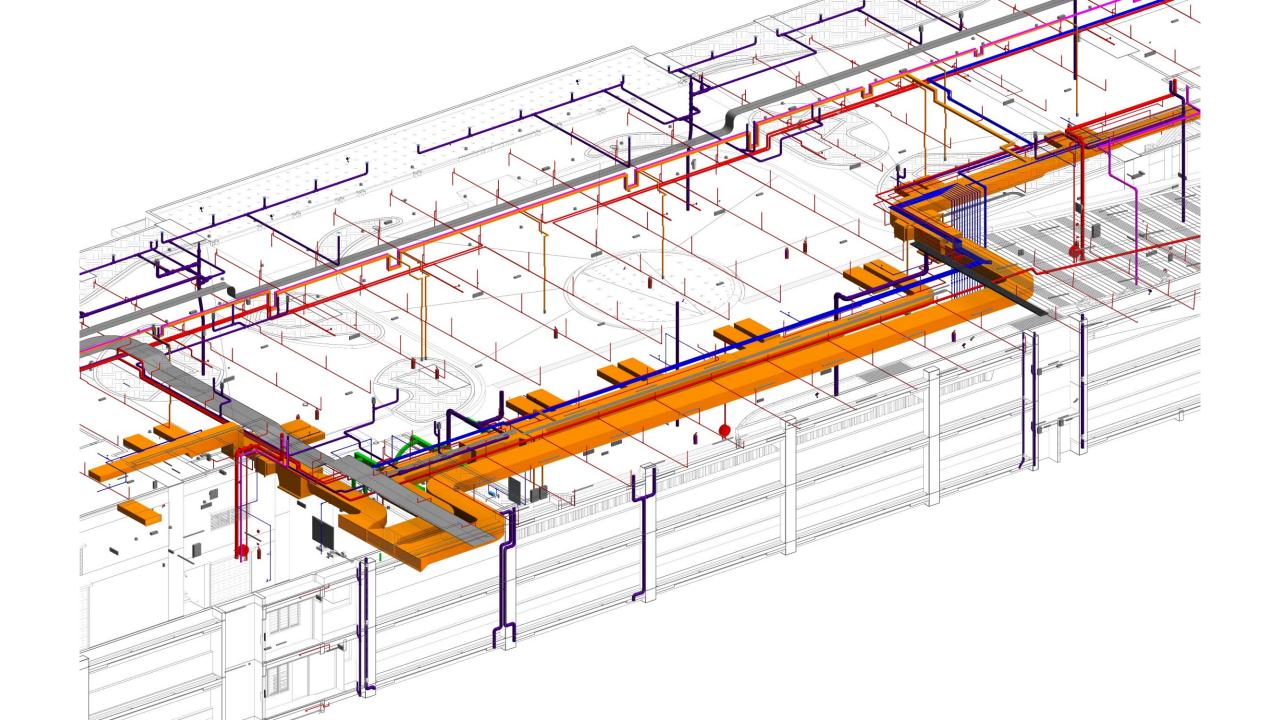
BIM S.O.W:

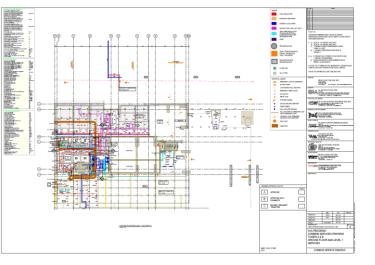
Project BIM Modelling (LOD500) c/w Asset Information Data

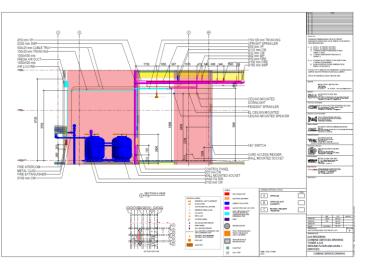


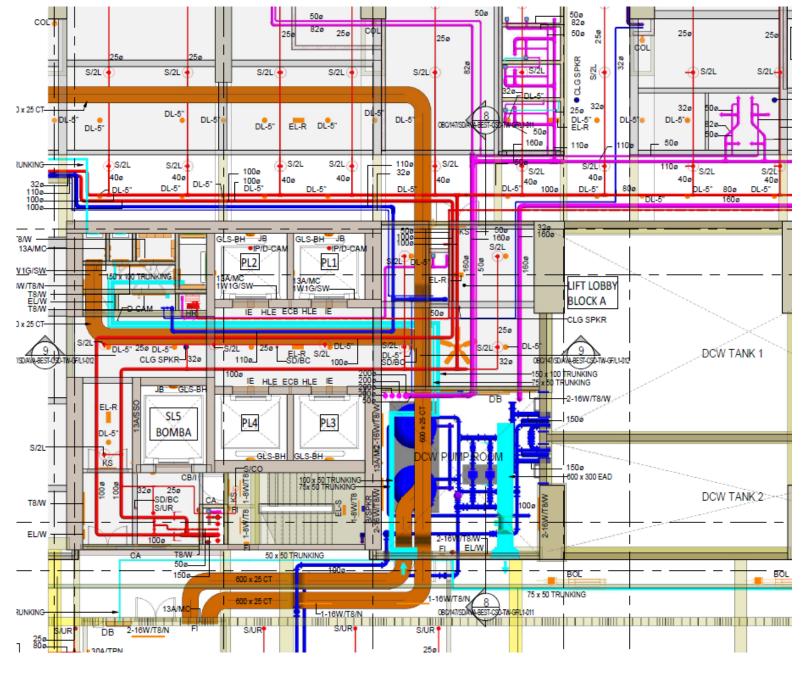


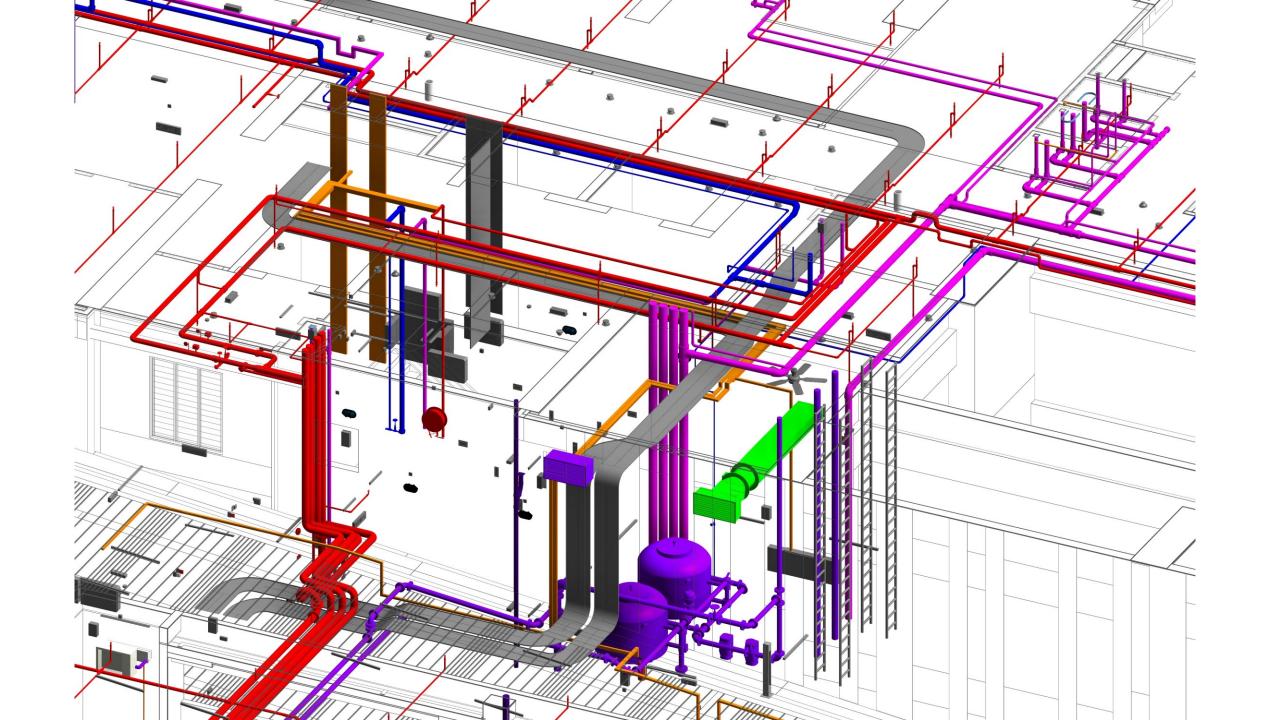


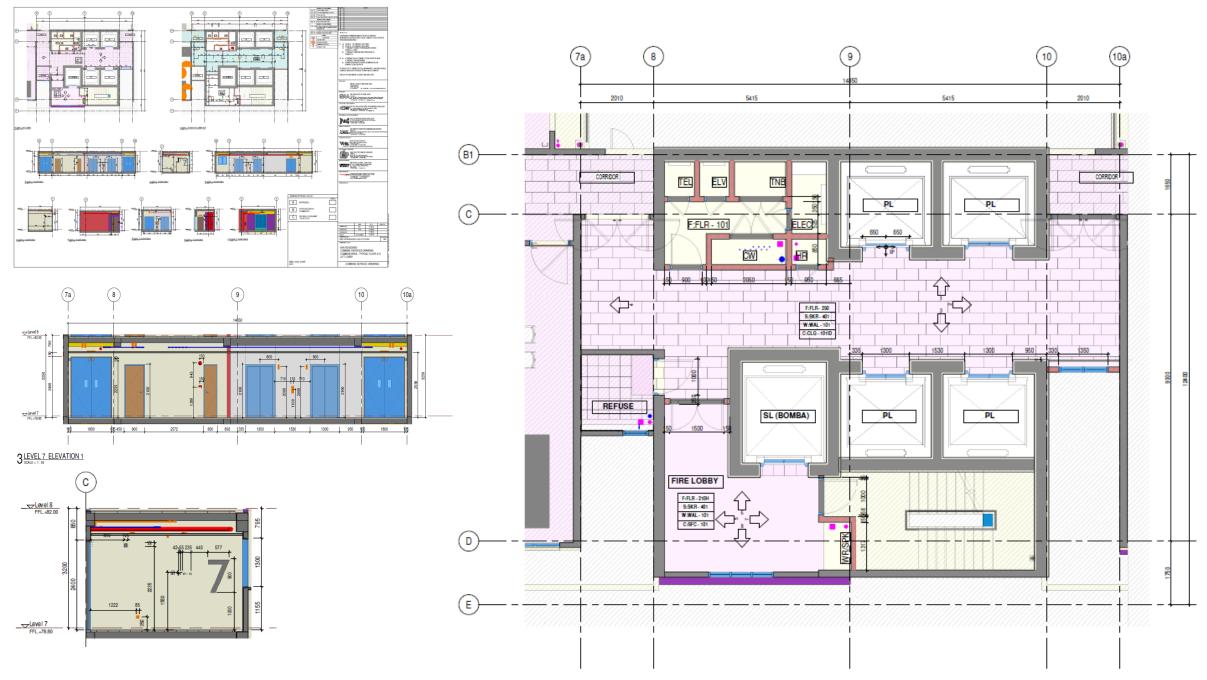


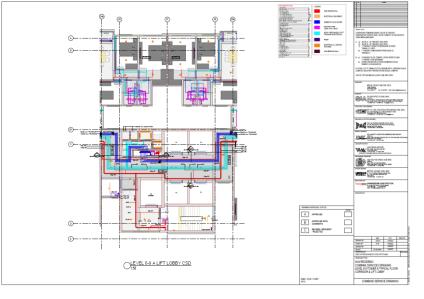


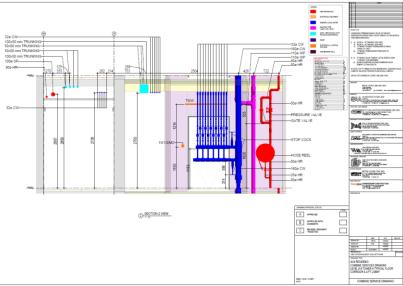


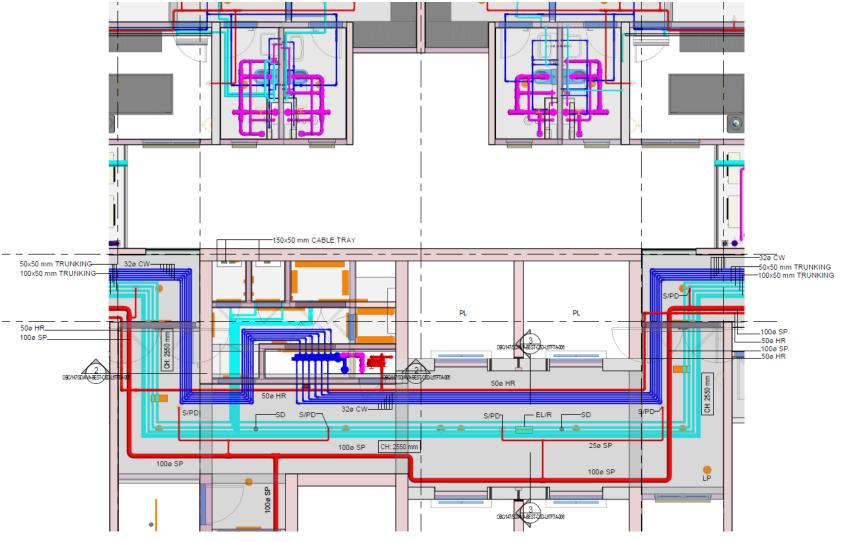


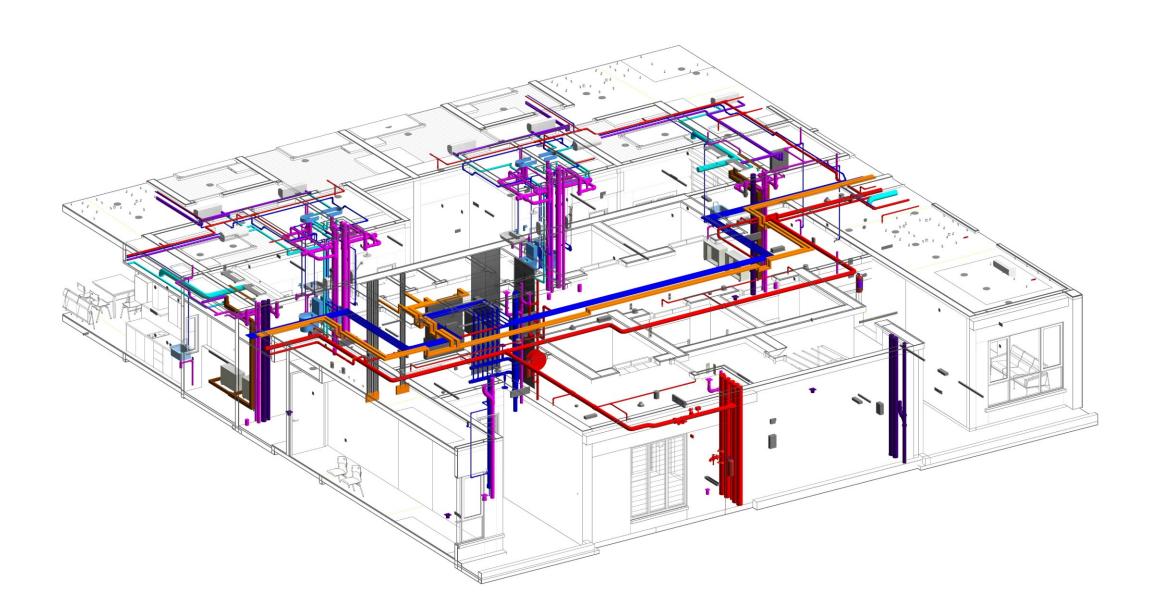


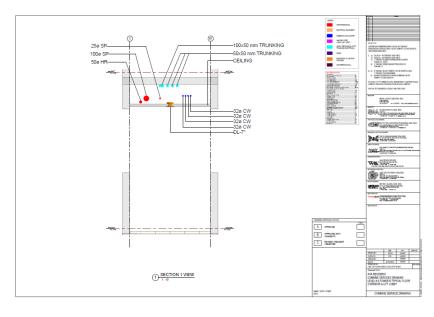


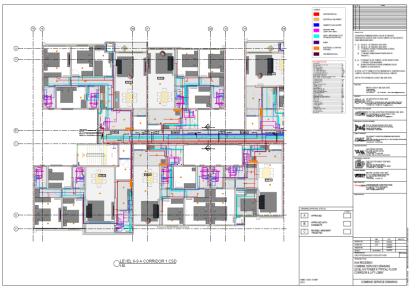


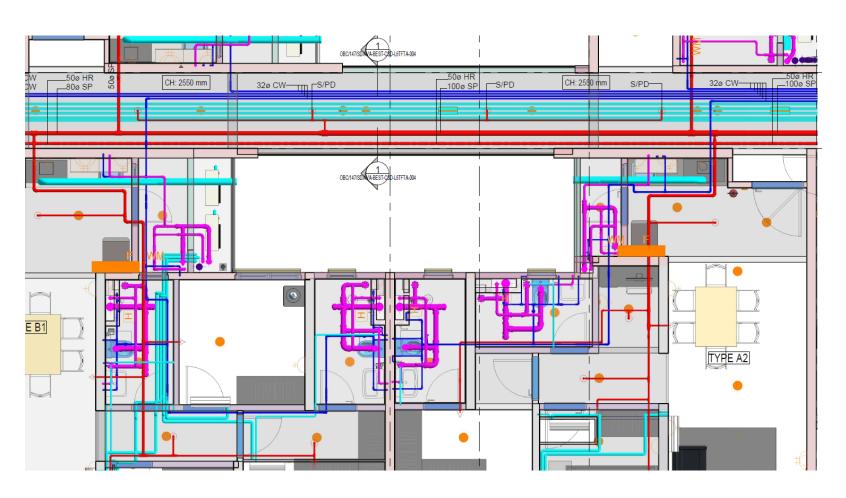


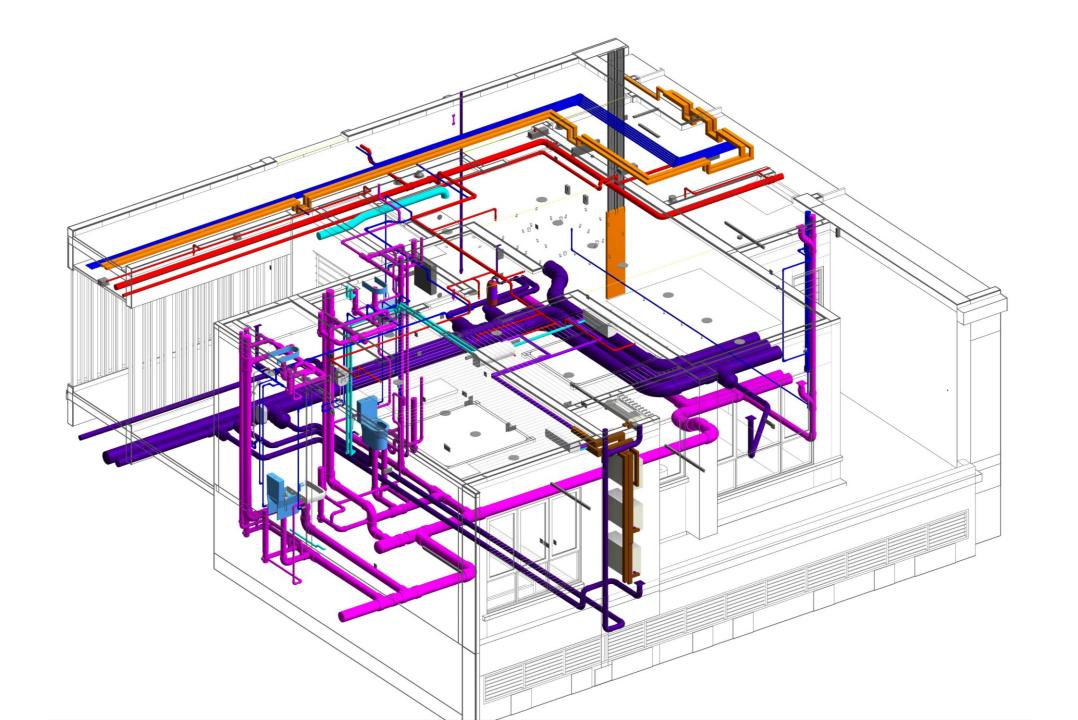


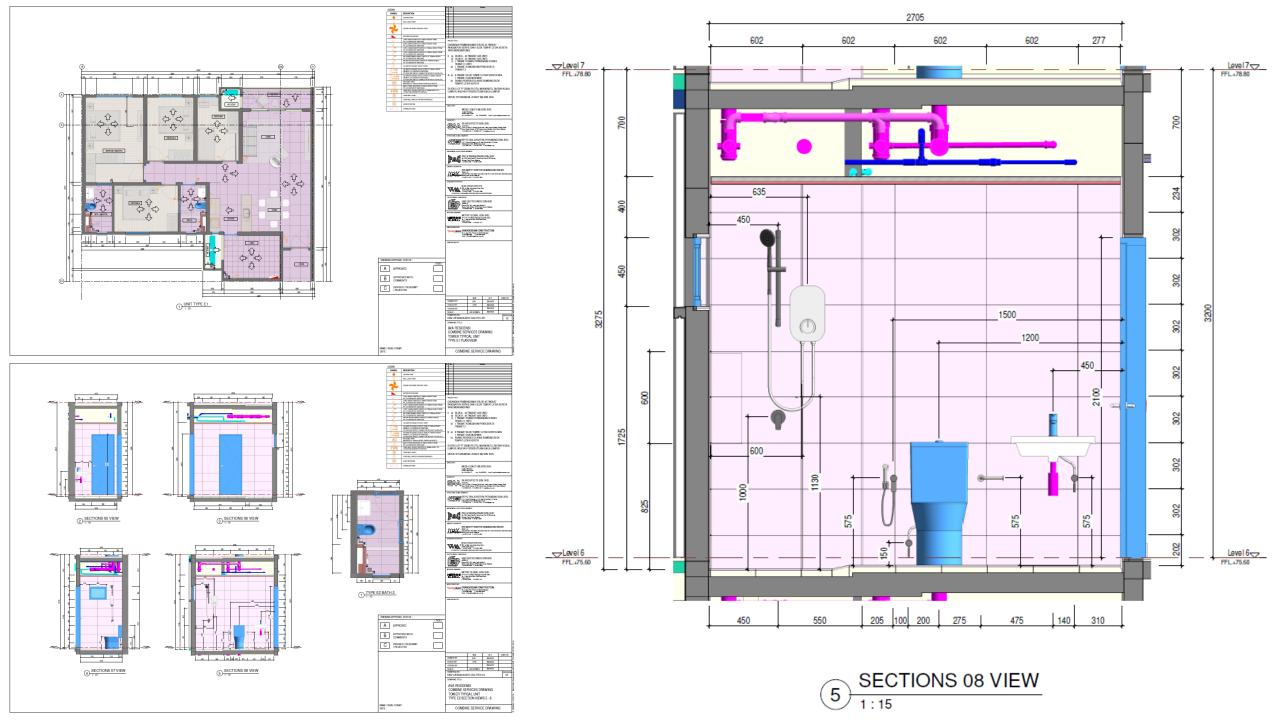


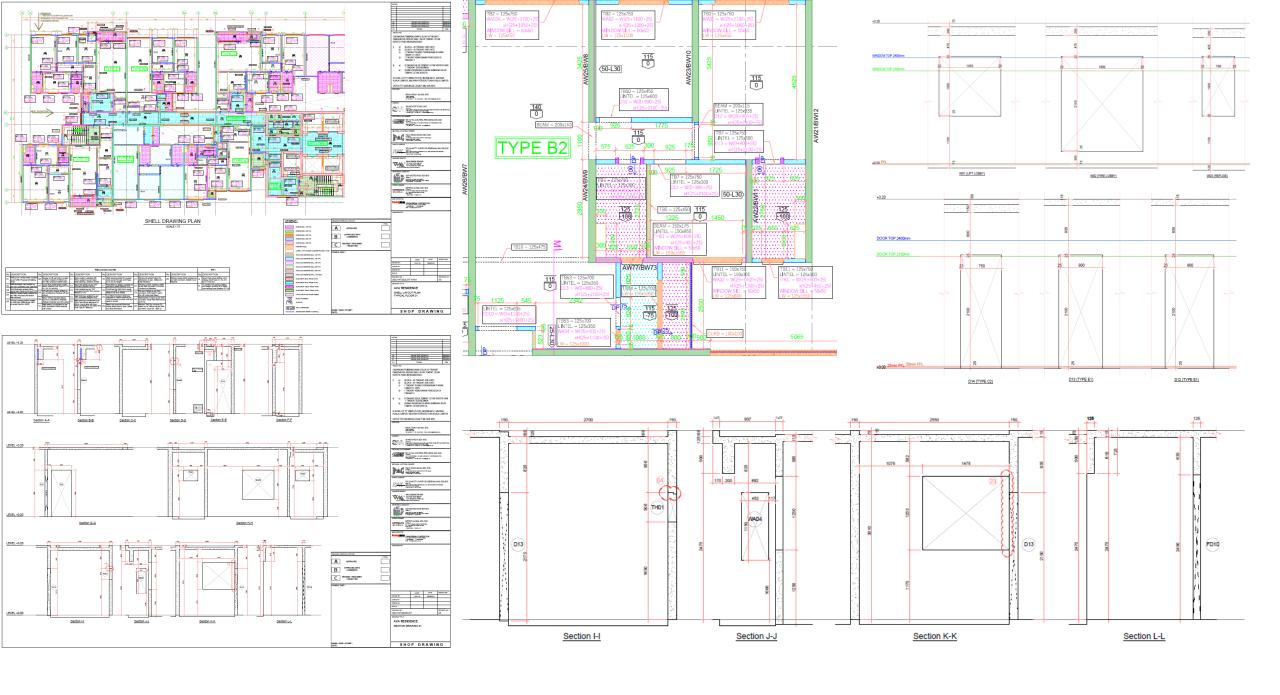


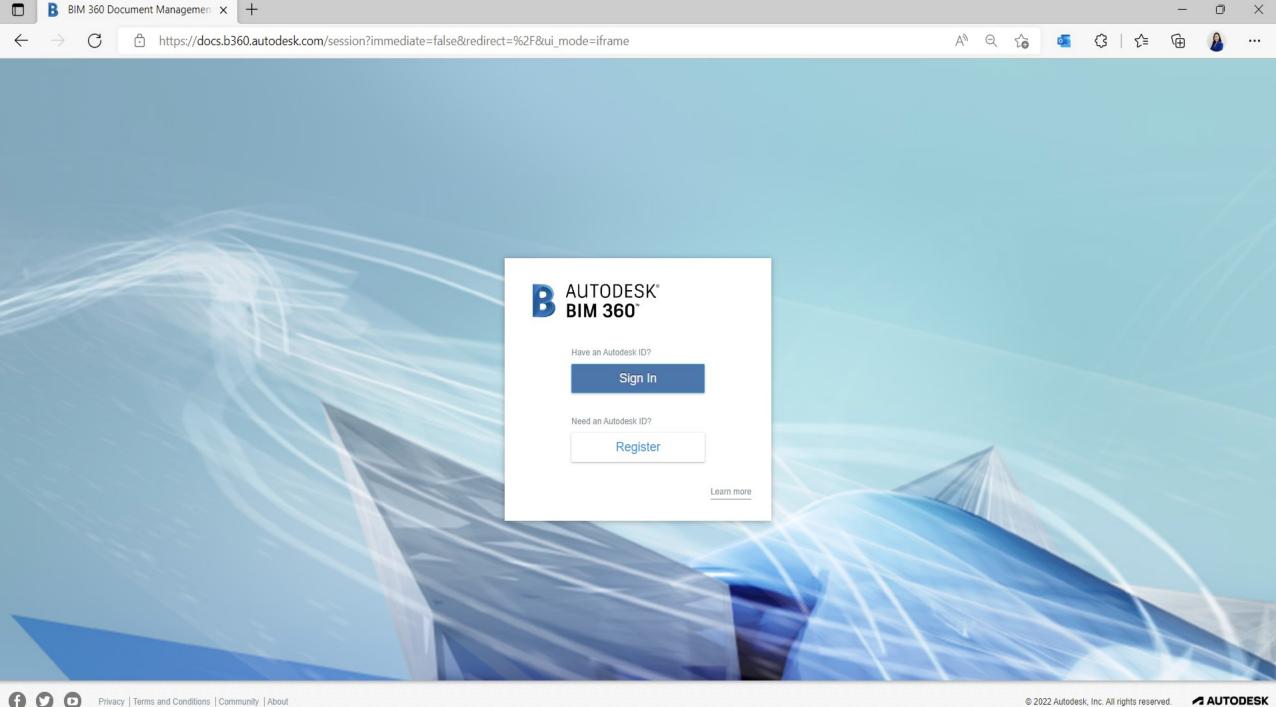




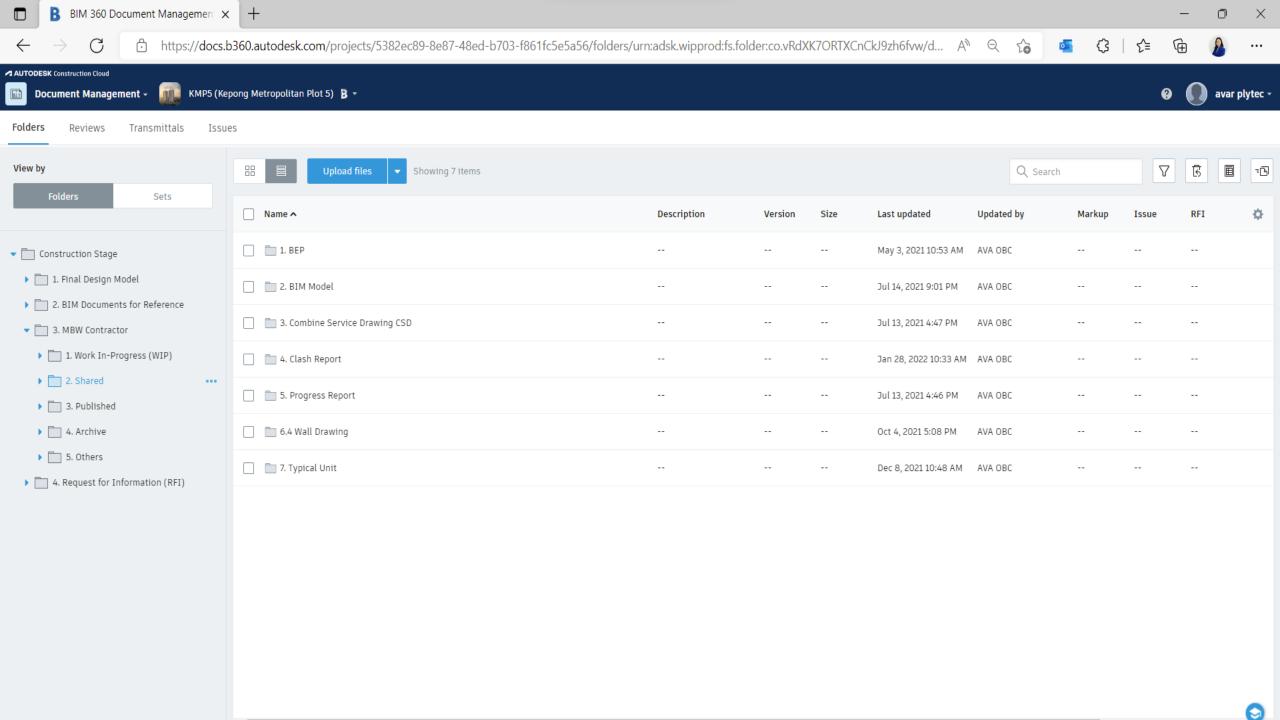


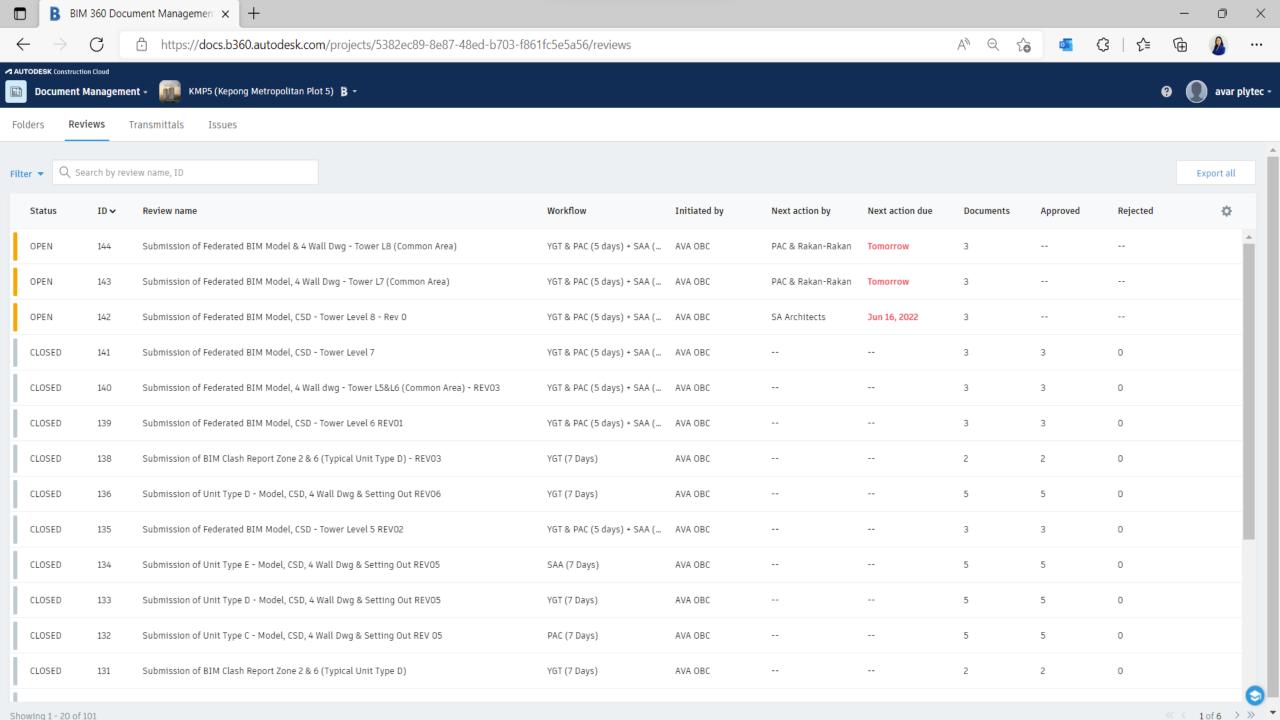


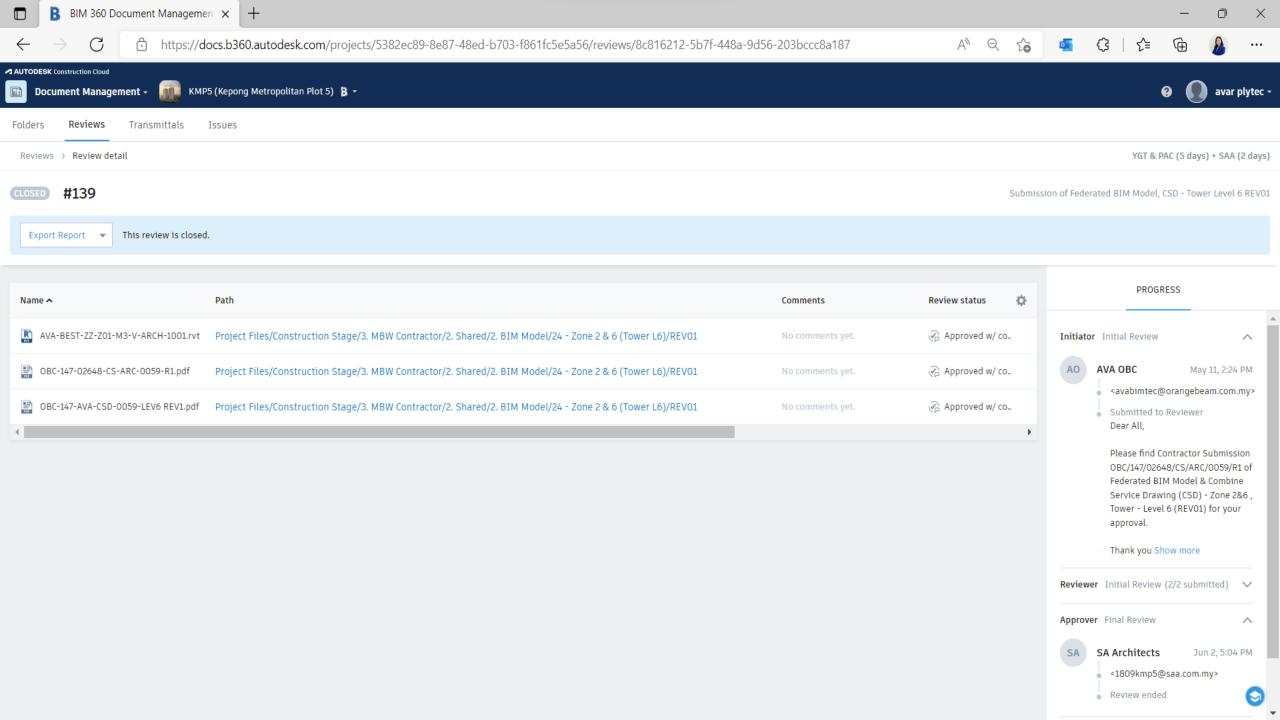


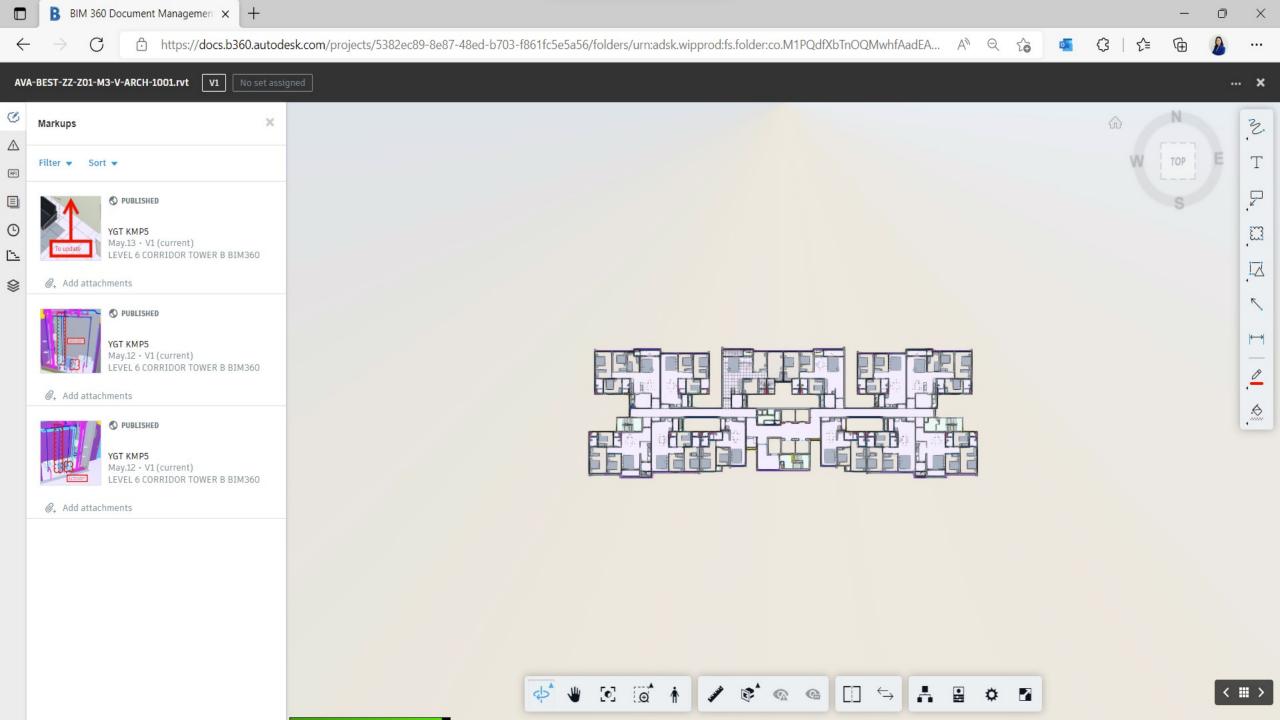






























# TRX City – Package C2 & C6B

**Project Status:** 

Construction Stage

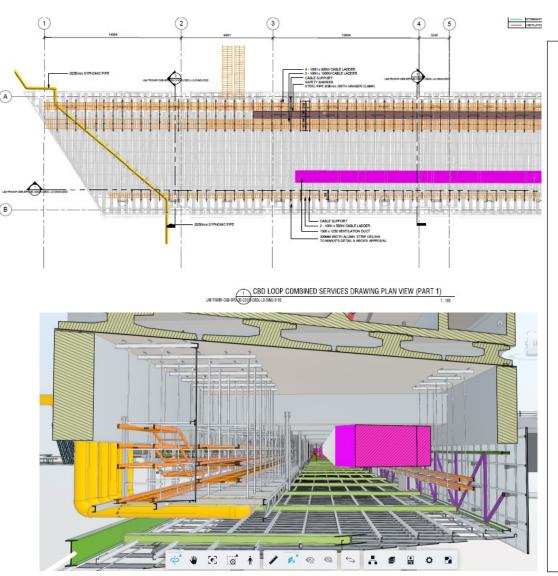
BIM S.O.W:

Project BIM modelling (LOD500) c/w asset information data





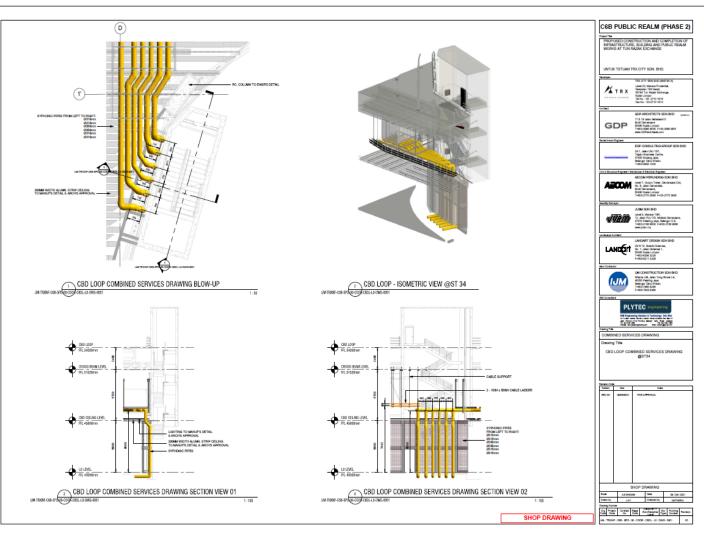
## TRX City - Package C2 & C6B



**Project Status:** Construction Stage

BIM S.O.W: Project BIM modelling (LOD500) c/w asset

information data



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#### **RECOGNITION**







BIM Engineering Solution & Technology Sdn No. 19 Jalan Meranti Permai 3, Meranti Permai Industrial Park, Batu 15, Jalan Puchong, 47100 Puchong, Selangor Darul Ehsan

To whom it may concern

Re: Testimonial For LiDAR Scan to BIM - T

We have engaged BIM Engineering Solution produce the as-built BIM model of Package C2

It was a great challenge to produce accurate and extended construction period. Changes were d behind

PLYTEC Engineering deployed LiDAR sca georeferenced digital point clouds that truly reg data were referenced to produce accurate and de

PLYTEC Engineering team is proactive and co using their BIM solutions. The team has set a hig



AL/PHG0 17th Mar

**BIM Engineering Solution 8** No.19 Jalan Meranti Permai Meranti Permai Industrial Pa 47100 Puchona Selangor D.E

Dear Sirs,

RE: Letter of Commendati

We engaged PLYTEC Eng implementation of cloud bas 19650 -1 & -2:2018 for ou Bentong, Pahang Darul Mak

PLYTEC Engineering scope to produce accurate LOD 5 dataset upon completion and

Their scope of works involbased on design CAD di coordination meetings to re improve spatial manageme design review (VDR), walkt transforms communication with transparency. With CDE easily trackable and accessi of project performance dash

We even shared our 3D Nominated Sub-Contractors constructability of our built Quantities extraction from tenderers) to compare as Surveyors before award of c VSB-062020-019A

BIM Engineering Solution & Tec No. 19 Jalan Meranti Permai 3. Meranti Permai Industrial Park, Batu 15, Jalan Puchong, Selangor Darul Ehsan

To whom it may concern

your project team has put in modelling of Olympic Council North Port Klang Office.

data creation of digital replica cost, increases business produ

PLYTEC Engineering's team heartily congratulations to vo

Date: 23rd June 2020

Re: Letter of Commendation

I would personally like to appre

LiDAR scanner enables canal depth 3D point clouds up to 1m made seamless. The pairing of of data and monitoring of syste

Our Ref : OBC/147/00930/BIMEST/LT/0156

Yang Mengandungi: i. A) Blok A – 43 Tingkat (435 Unit)

Untuk Tetuan Mega Legacy (M) San Bhd

business district of Kiara Bay, Kuala Lumpur,

Re: Testimonial for BIM Service

No. 19, Jalan Meranti Permai 3 Meranti Permai Industrial Park,

Batu 15, Jalan Puchona,

Selangor Darul Ehsan

BIM ENGINEERING SOLUTION & Technology SDN BHD

Cadangan Pembangunan 2 Blok 43 Tingkat Pangsapuri S

We collaborated with BIM Engineering Solution & Techno

Engineering") to undertake level 2 BIM implementation

BIM workflow allows all stakeholders to work simultaneously

via common data environment (CDE) without loss and de transparent and quick decision can be made timely.

In addition, intensive coordination of federated 3D BIM r

resolve conflicts virtually before we break the ground, Comit

extracted from approved BIM models for respective trade

project ahead of schedule with highest quality and safety.

Lastly, we are pleased with PLYTEC Engineering's perform

collaborating with them again on our upcoming projects.

B) Blok B – 43 Tingkat (435 Unit)
C) 1 Tingkat Ruang Perniagaan Di Aras Tanah (11 Un) 1 Tingkat Kemudahan Penduduk Di Tingkat 2

B) Ruana Rekreasi Di Aras Bumbuna Blok Tempat Le Diatas Lot Pt 26690 (Plot 5), Mukim Batu, Daerah Kuala Lump

Our ref.: PCFI-BIM-2020-017 Date : 15th July 2020

Specialist of Prefabrication Construction

BIM Engineering Solution & Technology Sdn Bhd

KERJAYA PROSPEK (M) SDN. BHD.

Durianê

RIM Engineering Solution & Technology Sdn Bhd

No. 19 Jalan Meranti Permai 3, Meranti Permai Industria Batu 15, Jalan Puchong Selangor Darul Ehsan

To whom it may concern

Re: Testimonial for BIM Se

It is with great pleasure t Solution & Technology Sdr

Our Ref. : GEN-PLYTEC-201508-L-TLC 3rd July 2020 BIM Engineering Solution & Technology Sdn Bhd

No. 19 Jalan Meranti Permai 3, Meranti Permai Industrial Park,

Batu 15, Jalan Puchong, 47100 Puchong,

Date: 14th July

METRO

HOSPITAL PAKAR METRO 新世纪专科医院 Vholly Managed By METRO KURNIA SDN. BHD. [199201012255] [245758-M) 1, Lorong Metro, 08000 Sungai Petani, Kedah Darul Aman. Telic 044-28588 Fax. 044-244588

BIM Engineering Solution & Technology Sdn Bhd No. 19 Jalan Meranti Permai 3, Meranti Permai Industrial Park Batu 15, Jalan Puchong,

47100 Puchong Selangor Darul Ehsan

To whom it may concern

Re: Letter of Commendation

We have had bad experiences with conventional design approach using 2D CAD drawings during construction of previous phase of Metro Specialist Hospital, Considerable amount of design conflicts and clashes were inherited from design into construction which had resulted in considerable amount of variation works, abortive works and delayed

Therefore, we decided to embark into BIM workflow to manage design and coordination of expansion of our hospital, BIM Engineering Solution and Technology Sdn Bhd (also known as "PLYTEC Engineering") leads integration of BIM workflow and together with the design team, the expansion was modelled into a real scaled 3D visualization BIM models. These models provide comprehensive visibility to all stakeholders and the team managed to resolve conflicts/clashes and optimize spatial management of M&E services as early during

We certainly recommend PLYTEC Engineering to integrate their BIM solutions on other new projects especially for hospital project where MEP services are much more complex.

HEAD OF PROJECT **ORANGEEAM** (198601009161)

www.aurel.com.mv | T +603 6733 3222 | F +603 7873 5223 | No.1, Jalan SS7/10, Kelana Jaya 47301 Petaling Jaya, Selangor, Mala

No 5, Jalan P16, Precinct 16, 62150 Putrajaya. www.orangebeam.com.my | Tel : 603,8886,8888 | Fax : 603,8889,566

ORANGEREAM CONSTRUCTION SDN. BHD.

Knowing Caring Serving

known as PLYTEC Engineering) is our reliable

ices in No. 26-1 & 26-3, Jalan Puteri 2/4, Bandar Puteri, 47100 Puchona, Selangor, Malaysia.

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eering Solution &

nologies BP2.0 heir engineering

interdisciplinary

time saving. mina projects as

Thank You

for your awesome review! We have jointly deliver benefits of BIM

PLYTEC engineering



BIM ENGINEERING SOLUTION & TECHNOLOGY SDN BHD

# Thank You

- Ir. Samantha Lau
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- samantha@plytec.com.my
- https://www.plytecengineering.com











