BIM MODEL PROJECT PRESENTATION



PECH SEENIN (PECH) BIM MODELER & STRUCTURAL ENGINEER



PROJECT EXPERIANCED (ARCHETYPE ENGINEERING CONSULTANT)

- DUCATI MOTOR THAILAND
- MOMENTIVE JASMINE
- VISCOFAN

TOOLS SKILL

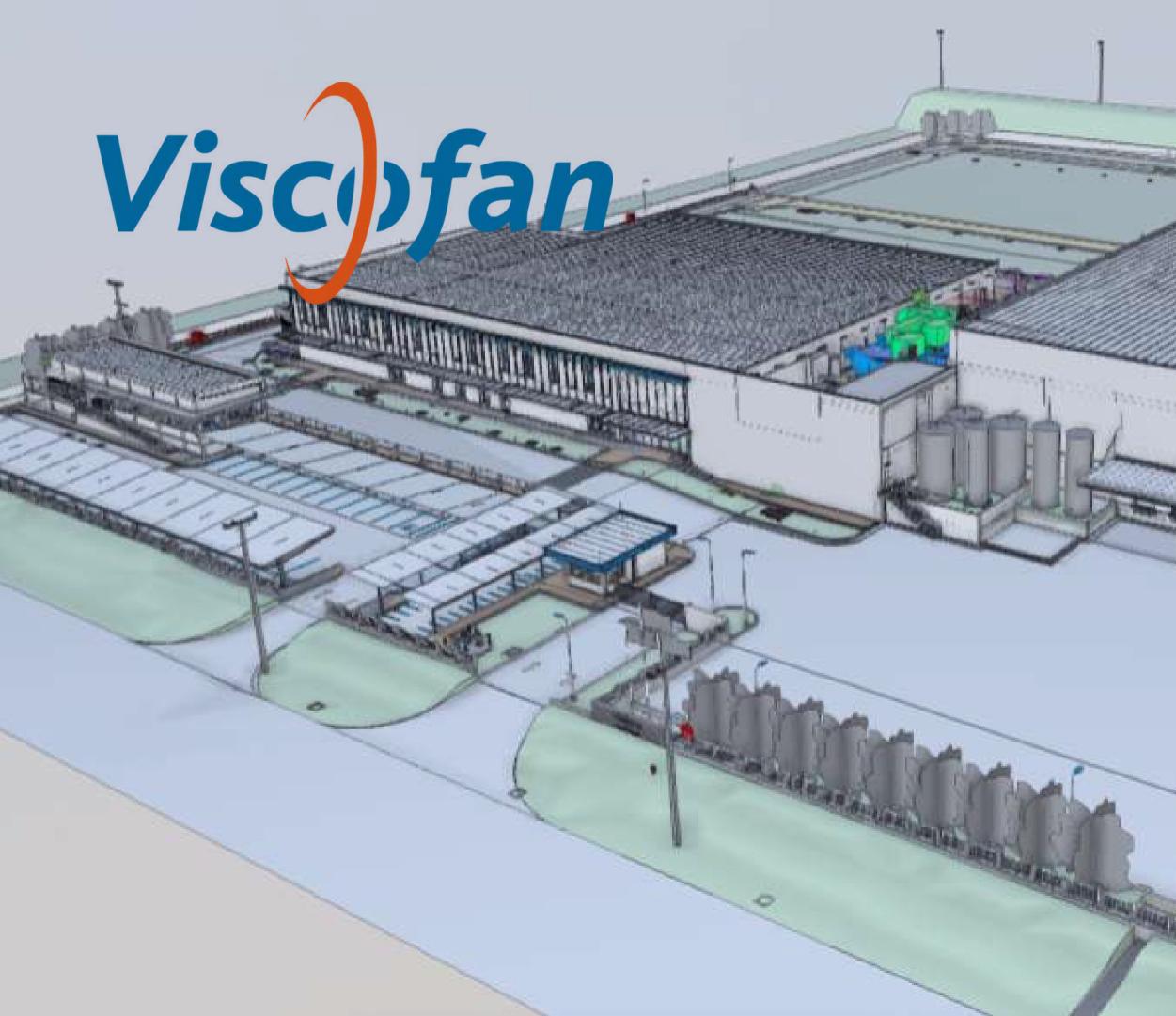
- Revit
- Autocad
- Robot Structure Analysis / TEKLA Structure Designer / ETABS
- Naviswork
- Autodesk construction cloud (ACC) / BIM360
- MS Excel, Powerpoint, Word

LICENSED AND CERTIFICATE

- Professional engineering licensed level I
- CEFR English test (B2 level)
- BIM Management (LinkedIn)

PROJECT REFERENCE





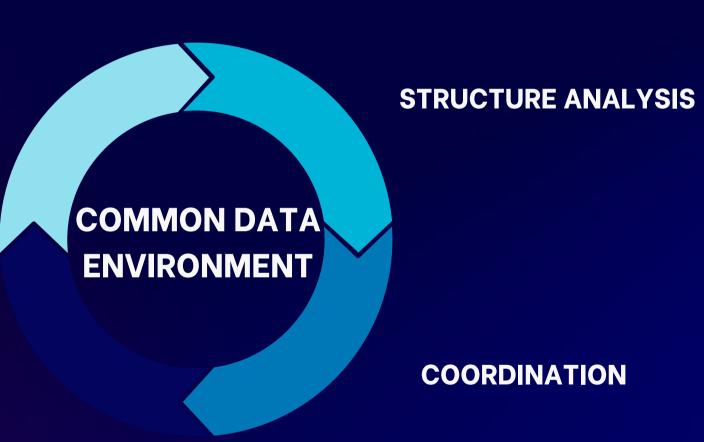
PROJECT AREA USAGE



PROJECT GOAL

WHY MUST BE BIM?





QUANTITY

DRAWING

VISUALIZATION



VISUALIZATION

MAKE ALL DISCIPLINES VISUAL THE PROJECT IN THE SAME DIRECTION, GOALS AND SPECIFICATION

REQUIREMENT TO VISUAL GEOMETRY

REQUIREMENT

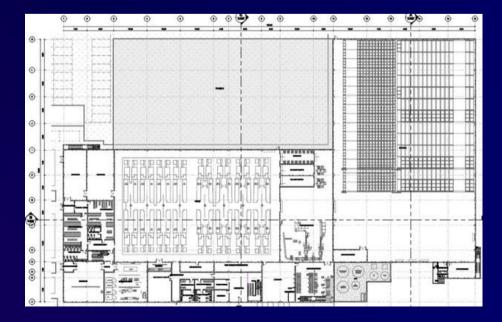
BASIS OF DESIGN

ARCHITECTURAL DESIGN CRITERIA

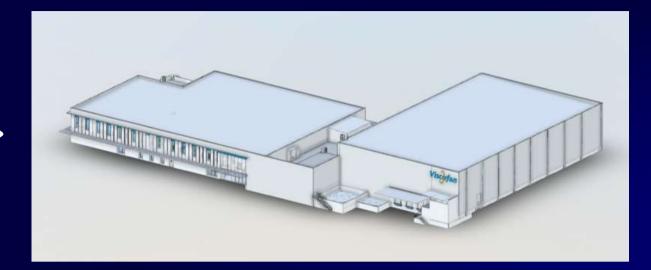
PROJECT: Viscofan - Parbat

Project No: C-TTH-EXT-23-002-800 Document No: PAR-REP-CD-AR-MP-AR-0002 Revision: 00 Dete: Merch 29th, 2023

ARCHITECTURAL DRAWING

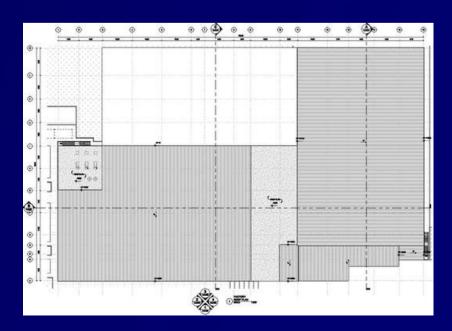


SCHEMATIC MODEL







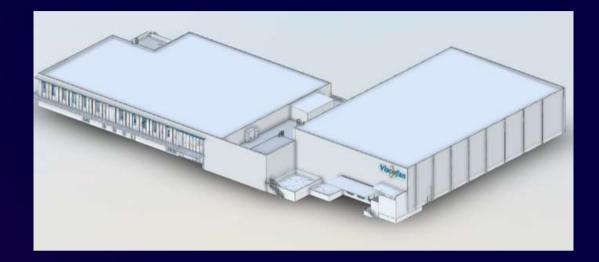


STRUCTURE ANALYSIS

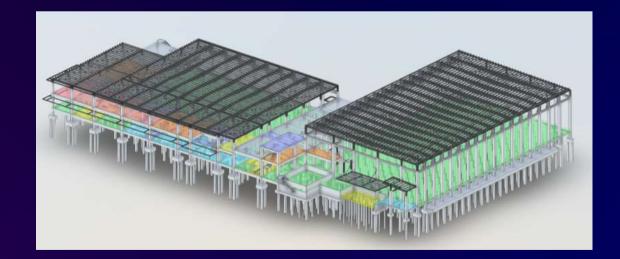
ENGINEERING DESIGN CALCULATION TO MAKE IT BE CONSTRUCTED IN THE REAL WORLD

VISUAL GEOMETRY TO CONSTRUCABILITY MODEL

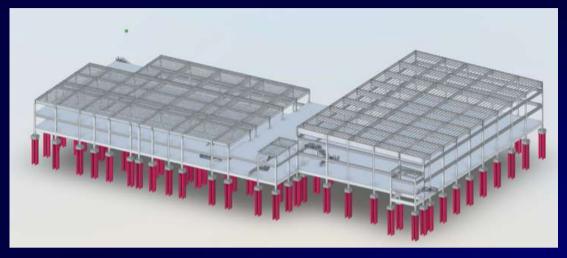
ARCHITECTURE MODEL



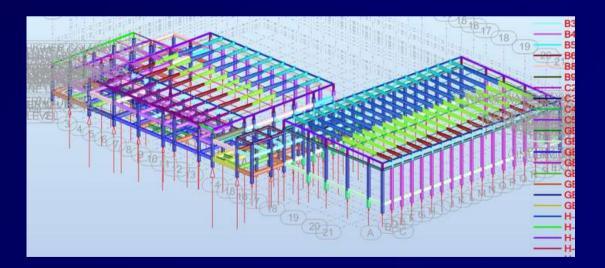
STRUCTURE MODEL



PRELIMINARY MODEL



STRUCTURE ANALYSIS MODEL

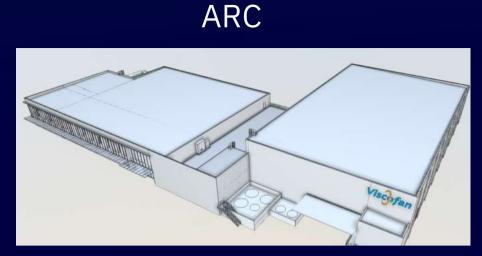


COORDINATION

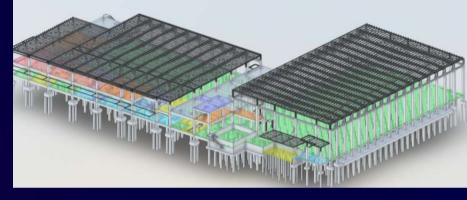
COLLABORATE INFORMATION WITH OTHER DISCIPLINES ON A COLLABORATION PLATFORM IN THE SAME COMMON DATA ENVIRONMENT (CDE) AND REVIEW THE OVERALL PROJECT FOR

- GEOMETRY COORDINATION
- CLASH DETECTION
- PROJECT CONSTRUCABILITY

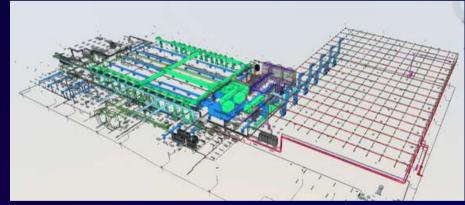
CONSTRUCABILITY MODEL TO REALITY CONSTRUCTION SITE

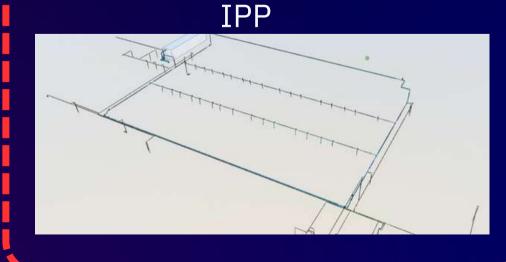


STR

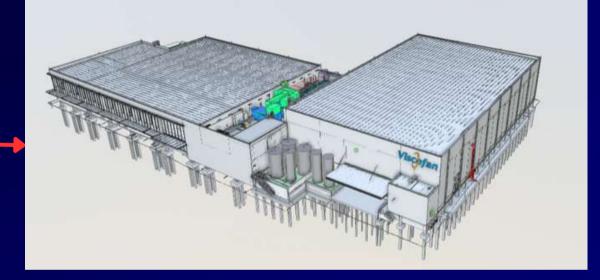








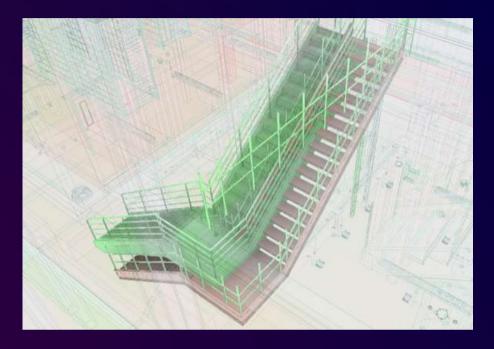
FADERATED MODEL



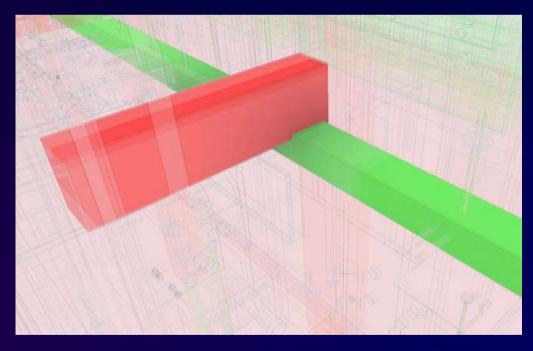
AUTODESK CONSTRUCTION CLOUD(ACC)

GEOMETRY COORDINATION

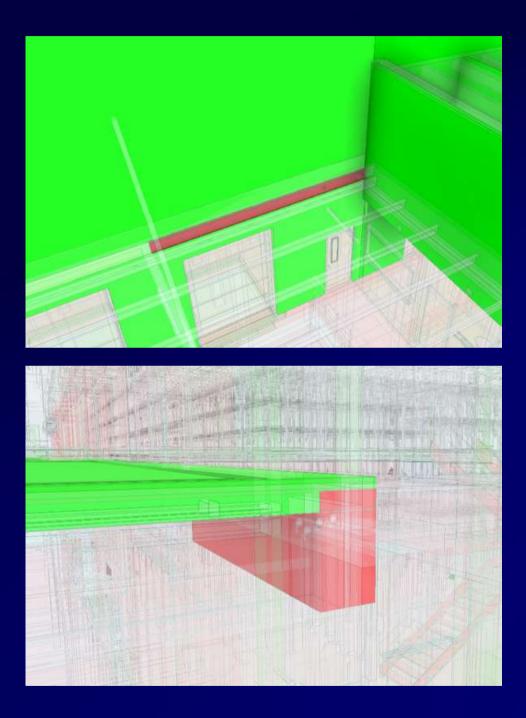
CLASH DETECTION (CLARIFY FOR ISSUE)







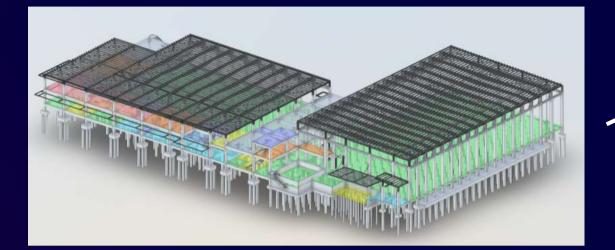
CONSTRUCABILITY



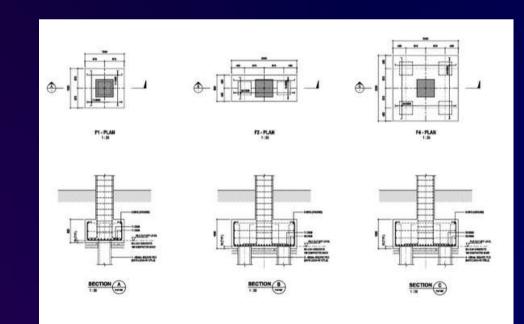
DRAWING

CREATE A 2D SHEET FROM THE MODEL FOR DRAWING AND DOCUMENT PACKAGE

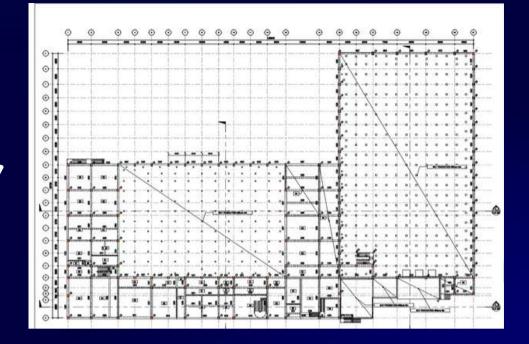
STRUCTURE MODEL



CONSTRUCABILITY MODEL TO DELIVERABLE PACKAGE



DETAILS



PLAN

MARK	SIZE	REMARK
B5	B5_400x1000	
B6	B6_500x700	
B8	B8_500x1000	
B9	B9_600x1200	
GB1	GB1_300x600	
GB2	GB2_400x800	
GB3	GB3_400x800	
GB4	GB4_400x1000	
GB5	GB5 500x1000	

COLUMN SCHEDULE

TYPE	SIZE	Comments
C1	C1_400x400mm	
C2	C2_500x700mm	
C3	C3_600x600mm	
C4	C4_600x800mm	
C5	C5_400x800mm	

MEMBER SCHEDULE

QUANTITY

EXPORT AN ACCURATED QUANTITY LIST FROM THE ACCURATED MODEL TO MINIZMIZE THE OWNER'S BUDGET

QUANTITY SCHEDULE

<Column Rebar Schedule>

Α	В	C	D	E	F
Host Category	Туре	Bar Diameter	Bar Length	Weight/m	Weight
Structural Column	DB16	16 mm		1.58	70.609163
Structural Column	DB20	20 mm	5	2.47	213.838134
Structural Column	RB9	9 mm	880 mm	0.50	2.19618

<Beam Rebar Schedule 2>

Α	В	С	D	E	F
Host Category	Туре	Bar Diameter	Bar Length	Weight/m	Weight
Structural Framing	DB20	20 mm		2.47	64.868669
Structural Framing	RB9	9 mm		0.50	8.353627

<s1 schedule=""></s1>						
Α	В	С				
Type Mark	Туре	Volume				
S1	S1_100mm THK.	52.64 m³				

<steel framing="" schedule=""></steel>						
Α	В	C	D	E	F	
Type Mark	Туре	Volume	Length	Cost	Weight(kg)	
SB1	SB1_125x75x3.2 (w=21.3 kg/m)	0.65 m ^s		21.30	11599.698073	

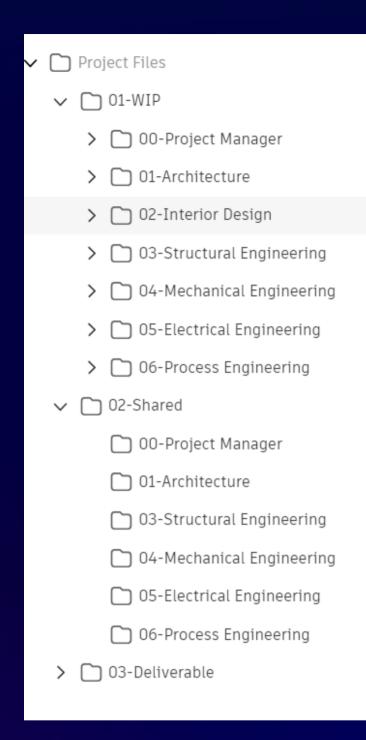
BOQ

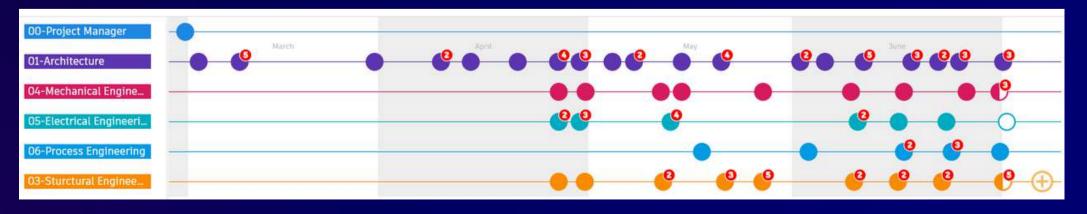
ล่ำดับที่	siunis	ຈຳນວນ	หน่วย	ค่าวัสด		คำแรงงาน		รวมค่าวัสดุ	
				ราคาต่อหน่วย	จำนวนเงิน	ราคาต่อหม่วย	ຈຳນວນເຈີນ	และคำแรงงาน	หมายเหตุ
	หมวดงานโครงแว้าง								
1	งานฐานราก #8	80	571						
	1.1 งานดินทุด	69.7	111.14			200.00	13,940.00	13,940.00	
	1.2 พรายพยาย พรา 10 ชม.	4.36	80.11	350:00	1,526.00	150.00	654.00	2,180:00	
	1.3 คอนกรีตหยาบ หนา 10 ชม.	4.36	11.11	1,645.00	7,172.20	450,00	1,962.00	9,134.20	
	1,4 ตอนกรีตโครงสร้าง	89.36	111.33	2,261.00	202,042.96	450.00	40,212.00	242,254.96	
	1.5 เหล็กเสริม						12	÷	
	- DB12	433.16	nn.	25.73	11,145.21	7.00	3,032.12	14,177.33	
	- D820	859.70	nn.:	27.30	23,469.81	5.00	4,298.50	27,768.31	
							12	10 A	
2	งานเสาคอนกรีด C1	80	ตัน						
	2.1 คอนกวิตโครงสร้าง	17.310	30.0	2,261.00	39,137.91	450.00	7,789.50	46,927.41	
	2.2 เหล็กเสริม						1		
	- R89	37.40	nn	24,70	923.78	7.00	261.80	1,185.58	
	- DB20	3,635.28	nn	27.30	99,243.14	5.00	18,176.40	117,419.54	
	5711				384,661.01		90,326.32	474,987.33	

DOCUMENT MANAGEMENT

TO KEEP ALL OF THE PROJECT DOCUMENTS AND INFORMATION IN THE SAME COMMON DATA ENVIRONMENT (CDE) WHICH EVERY **DISCIPLINE WILL EXCHANGE THEIR INFORMATION VIA THIS PLATFORM. EACH** DISCIPLINE WILL MANAGE AND DEFINE WHAT INFORMATION CAN BE SHARED AND WHICH ONE IS NOT.

- WORK IN PROGRESS (FOR INTERNAL **REVIEWS**)
- SHARED INFORMATION (FOR OTHER **DISCIPLINE REFERENCE**)
- DELIVERIBLE (FOR EXTERNAL REVIEWS)





PROJECT TIMELINE

INFORMATION PURPOSED

CANTEEN

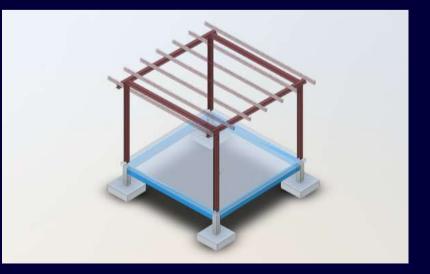




TRANSFORMER ROOM

GUARD HOUSE





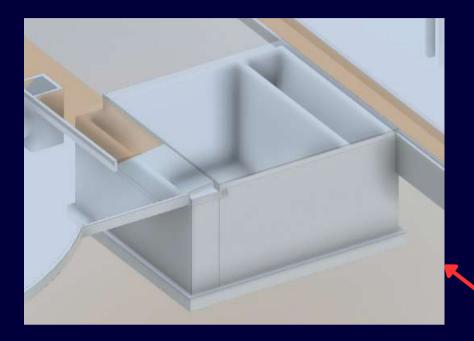
FIRE PUMP ROOM



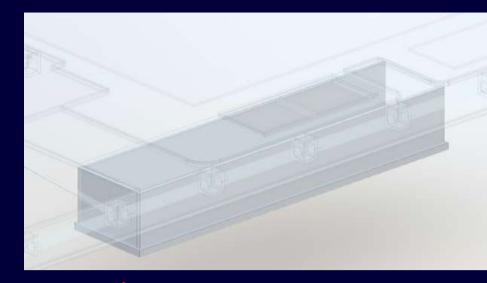


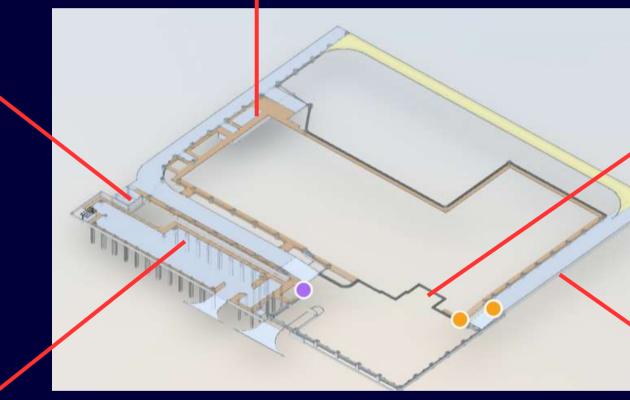
WATER TREATMENT ROOM

FIRE PUMP UNDERGROUND TANK

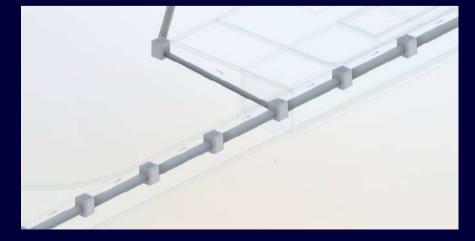


RAIN STORAGE UNDERGROUND TANK



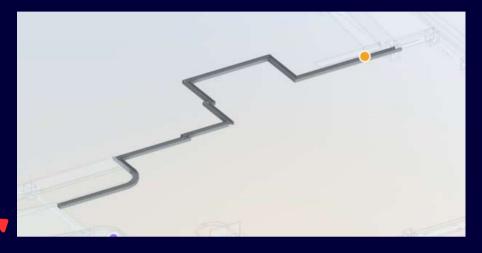


MANHOLE

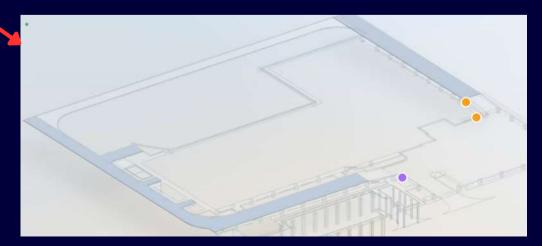


CIVIL WORKS

GUTTER FOR SITE DRAINAGE



INTERNAL ROAD PAVEMENT



THANK YOU FOR YOUR ATTENTION