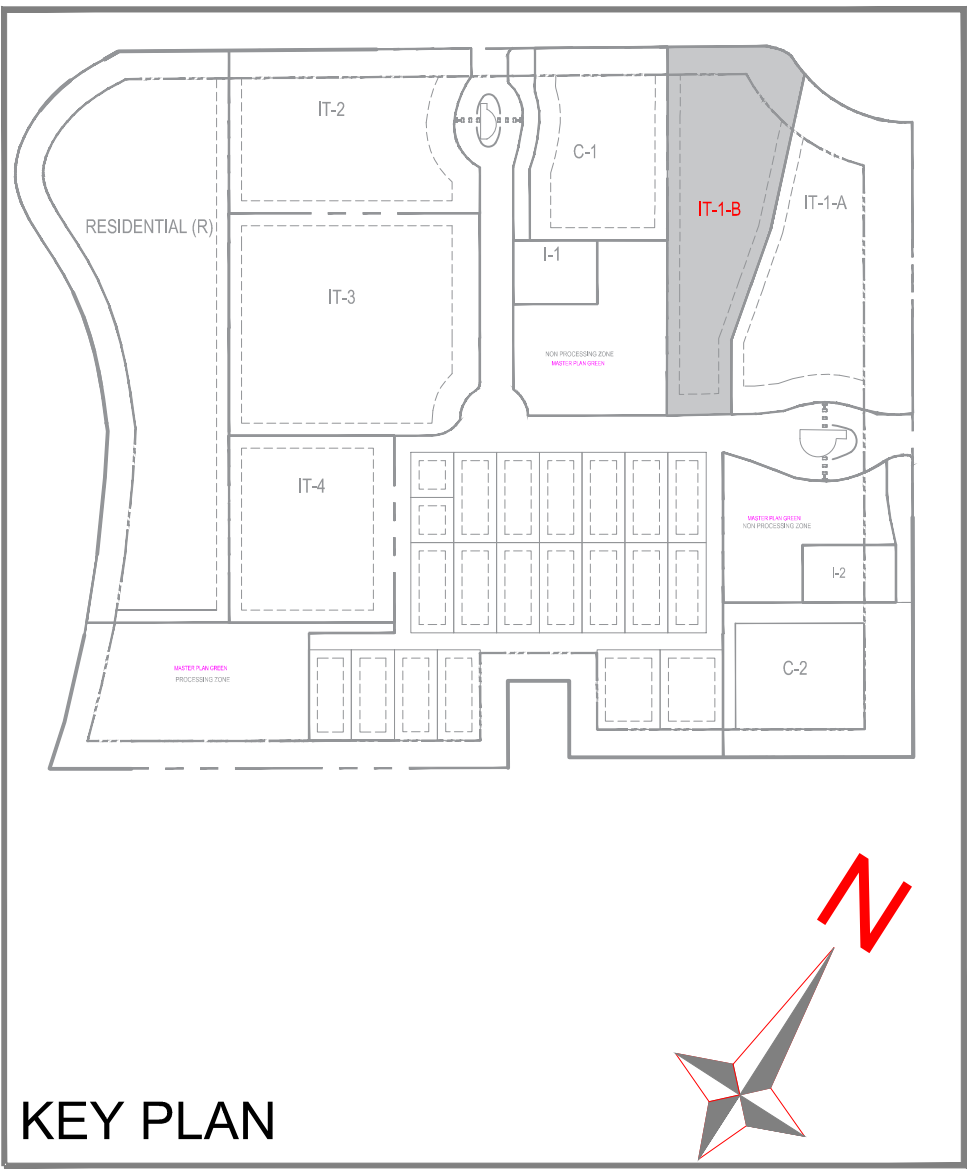
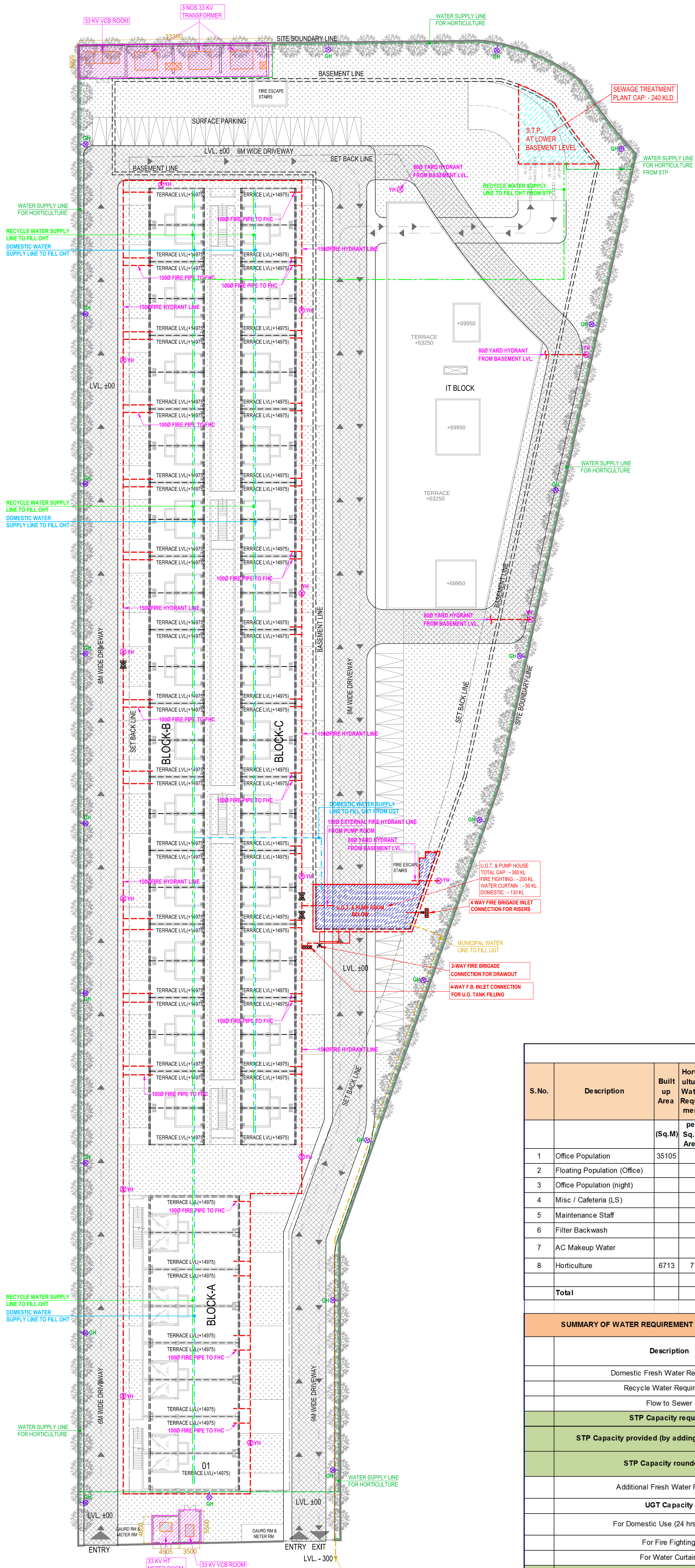




LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.		MUNICIPAL WATER SUPPLY PIPE LINE
2.		RECYCLED WATER SUPPLY LINE FOR FLUSHING
3.		RECYCLED WATER SUPPLY LINE FOR HORTICULTURE
4.		DOMESTIC WATER SUPPLY LINE
5.		GARDEN HYDRANT
6.		BASEMENT RETAINING WALL

LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.		FIRE LINE
2.		YARD HYDRANT 63 M.M. DIA. SINGLE HEADED HYDRANT VALVE WITH 2 NOS. 15 M. LONG. 63 M.M. DIA. FIRE HOSE PIPE & 1 NO. BRANCH PIPE WITH NOZZLE
3.		4 WAY FIRE BRIGADE INLET CONNECTION
4.		2 WAY FIRE BRIGADE DRAWOUT CONNECTION
5.		BUTTERFLY VALVE
6.		NONRETURN VALVE (CHECK VALVE)
7.		ISOLATING VALVE WITH MASONRY CHAMBER

WATER REQUIREMENT CALCULATIONS												
S.No.	Description	Built up Area (Sq.M)	Hortic ulture Water Requir ment per Sq.M Area	No. of Units / Seats	Unit Population	Total Popul ation	Domestic Fresh Water Requirement (A)		Recycle Water Requirement (B)		Total Water Requireme nt (A+B)	
							LPD	LPD	LPD	LPD	LPD	LPD
1	Office Population	35105		10 SqM/person	3520	25	88000	20	70400	158400	70400	140800
2	Floating Population (Office)			10% of above	352	5	1760	10	3520	5280	1408	4928
3	Office Population (night)				880	25	22000	20	17600	39600	17600	35200
4	Misc / Cafeteria (LS)						5000			5000	4000	4000
5	Maintenance Staff				100	25	2500	20	2000	4500	2000	4000
6	Filter Backwash						10000			10000		10000
7	AC Makeup Water								130000	130000		
8	Horticulture	6713	7						46991	46991		
Total							1,29,260		2,70,511	3,99,771	95,408	1,03,520
SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION												
Description							Water Requirement (KLD)					
Domestic Fresh Water Requirement							129					
Recycle Water Requirement							271					
Flow to Sewer							199					
STP Capacity required							199					
STP Capacity provided (by adding 20% as per MOEF)							239					
STP Capacity rounded off							240					
Additional Fresh Water Required							72					
UGT Capacity												
For Domestic Use (24 hrs storage)							130 KL					
For Fire Fighting							200 KL					
For Water Curtain							50 KL					
Total UGT Capacity							380 KL					

project
PROPOSED IT-1B, IT-SEZ, ON PLOT NO. TZ-6, GREATER NOIDA

title
LAYOUT PLAN
subtile
EXTERNAL WATER SUPPLY SYSTEM

drawing released for
☒ SUBMISSION
☐ APPROVAL
☐ ADVANCE COPY
☐ CONSTRUCTION

drg. no.
IT-1B / 23B01 / ES-03
scale
1 : 375
date
20.07.2023

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