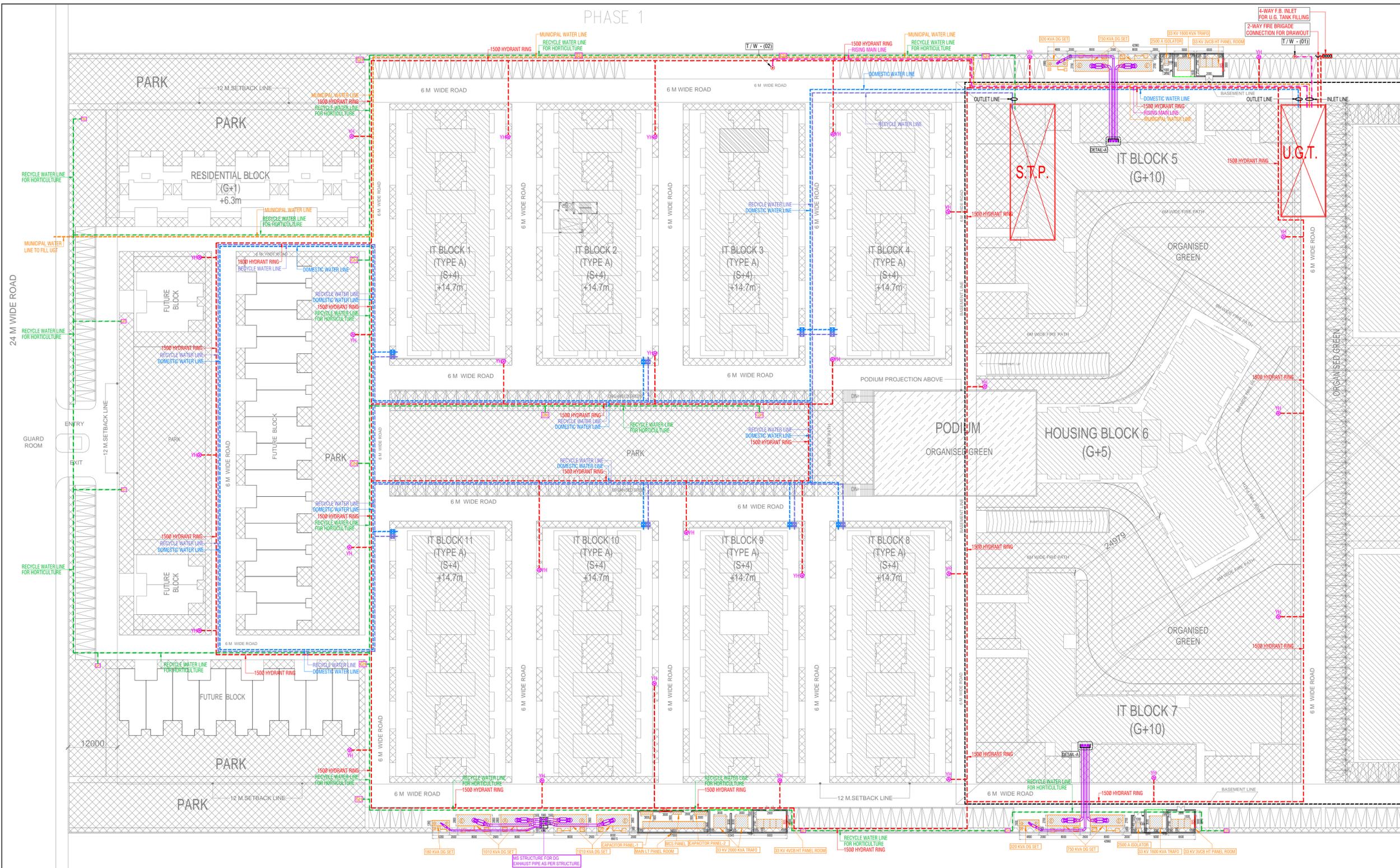


PHASE 1



LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		DOMESTIC WATER SUPPLY PIPE LINE.
2.		RECYCLE WATER SUPPLY PIPE LINE.
3.		RECYCLED WATER SUPPLY PIPE LINE (FOR HORTICULTURE)
4.		RISING MAIN WATER PIPE LINE.
5.		MUNICIPAL WATER SUPPLY PIPE LINE.
6.		ISOLATING VALVE
7.		PROPOSED TUBE WELL
8.		BASEMENT LINE
9.		GARDEN HYDRANT

LEGEND : FIRE SYSTEM

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



Rev. no.	Date	Revision
..

Project
PROPOSED I.T. PARK AT PLOT NO-06,K.P.-5,GREATER NOIDA WEST, GAUTAM BU DH NAGAR, UP

Owner
ELEGENT IT SOLUTIONS PVT LTD

Title
SITE PLAN

Subtitle
EXTERNAL WATER SUPPLY SYSTEM

Drawing released for
 APPROVAL SUBMISSION
 ADVANCE COPY CONSTRUCTION

Org. no. I.T. PARK / EX / S-03 **Drawn by** Kulwant

Scale 1:500 @ A1 **Designed by** R.K.

Date May 2017 **Checked by** Anand Havella

Architects
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PROJECT : Proposed I.T. Park at Plot No. 6 K. Park -05 , G. Noida West

WATER REQUIREMENT CALCULATIONS (PHASE - 1)

S.No.	Description	Built up Area (Sq.M)	Horticulture Water Requirement per Sq.M Area	No. of Units	Unit Population	Total Population	Domestic Fresh Water Requirement (A)		Recycle Water Requirement (B)		Total Water Requirement (A+B)		Flow to Sewer			
							LPCD	LPD	LPCD	LPD	LPD	LPD	Domestic 85%	Flushing 85%	LPD	
1	Population (Sales Basement & Street Floors) (Shopping)	1428		3	3	480										
2	Population (Upper Sales Floors) (Shopping)	0		6	6	0										
3	Permanent Population (Shopping)			96	3	288	25	7200	20	5760	12960	6120	5472	11592		
4	Transient Population (Shopping)			@ 90% of total population	430	5	2150	10	4300	6450	1828	4065	5913			
5	Office Population (Office)	47365		10	10	4740	25	119500	20	94800	213300	100725	90060	190785		
6	Floating Population (Office)			10% of above	474	5	2370	10	4740	7500	2015	4503	6518			
7	Restaurant / Cafeteria							75000		63750	0	63750				
8	Residential Units			164	4.5	738	90	66420	45	33210	99630	56457	31550	88007		
9	Floating Population (Residential Units)							74	5	369	1107	314	701	1015		
10	Maintenance Staff							250	25	6250	20	5000	11250	6313	4750	10063
11	Filter Backwash									20000		20000				
12	Horticulture	28476	8							227808		227808				
Total								2,98,259		3,76,356	6,74,615	2,36,520	1,41,121	3,77,641		

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION

S.No.	Description	Water Requirement (KLD)
1	Domestic Fresh Water Requirement	298
2	Recycle Water Requirement	376
3	Flow to Sewer	378
STP Capacity required		380
4	Net water balance (to discharge into drainage system)	1
UGT Capacity		
For Domestic Use (16 hrs storage)		200 KL
For Fire Fighting (as per NBC)		370 KL
Total UGT Capacity		570 KL