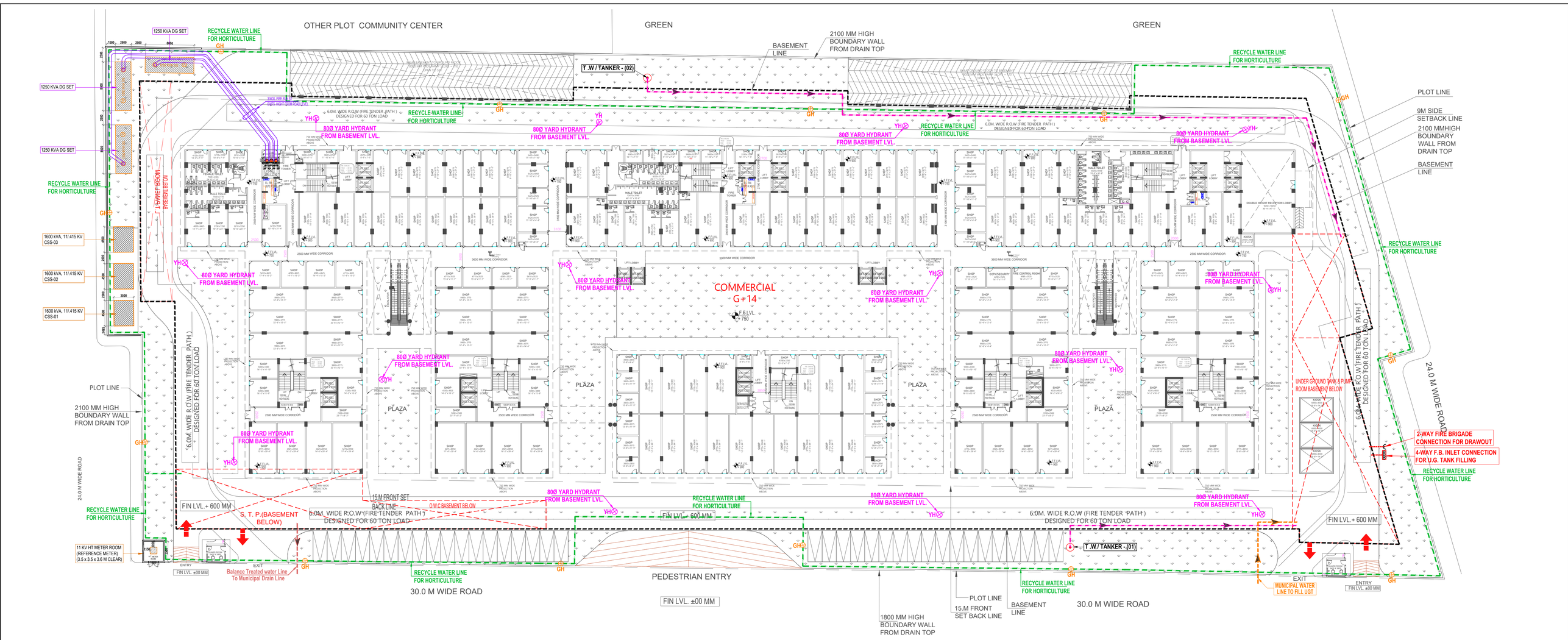

PROJECT - PROPOSED COMMERCIAL COMMERCIAL -C1- AT PLOT NO. TS-01 SECTOR 22A AT YAMUNA EXPRESSWAY

WATER REQUIREMENT CALCULATIONS (SUBMISSION)

S.No.	Description	Built up Area	Horticulture Water Requirement per Sq.M Area	No. of Units / Seats	Unit Population	Total Population	Domestic Fresh Water Requirement (A)		Recycle Water Requirement (B)		Total Water Requirement (A+B)	Flow to Sewer		
		(Sq.M)					LPCD	LPD	LPCD	LPD	LPD	Domestic 90%	Flushing 100%	LPD
1	Population (Sales Basement & Street Floors) (Shopping)	8018			3 SqM/person	2680								
2	Population (Upper Sales Floors) (Shopping)	7706			6 SqM/person	1290								
3	Permanent Population (Shopping)				@ 10% of total population of Shopping	400	25	10000	20	8000	18000	9000	8000	17000
4	Transient Polulation (Shopping)				@ 90% of total population of Shopping	3570	5	17850	10	35700	53550	16065	35700	51765
5	Restaurant	600			1.8 SqM/person	340	55	18700	15	5100	23800	16830	5100	21930
6	Food Court	1600			1.8 SqM/person	890	25	22250	10	8900	31150	20025	8900	28925
7	Entertainment Zone	800			1.4 SqM/person	580	5	2900	10	5800	8700	2610	5800	8410
8	Rooms			495	2	990	65	64350	21	20790	85140	57915	20790	78705
9	Maintenance Staff					100	25	2500	20	2000	4500	2250	2000	4250
10	Filler Backwash							10000			10000		10000	10000
11	AC Makeup Water									100000	100000			
12	Horticulture	5000	6							30000	30000			
	Total							**148,550**		**216,290**	**364,840**	**124,695**	**96,290**	**220,985**

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION

	Description	Water Requirement (KLD)
	Domestic Fresh Water Requirement	149
	Recycle Water Requirement	216
	Flow to Sewer	221
	STP Capacity required	**221**
	STP Capacity provided (by adding 20% as per MOEF)	**265**
	STP Capacity rounded off	**270**
	Net water balance (to discharge into external municipal system)	5
	UGT Capacity	
	For Domestic Use (24 hrs storage)	150 KL
	For Fire Fighting	200 KL
	For Water Curtain	170 KL
	Total UGT Capacity	**520 KL**

VISHAL SHARMA ARCHITECT CA-88/23261 8310164666 NEW DELHI

THREE C HOMES PVT. LTD.
Authorised Signatory

Rev. No.	Date	NO.OF PRINTS	Revision
:	:	:	:

LEGEND : FIRE SYSTEM

S. No.	SYMBOL	DESCRIPTION
1.		FIRE LINE
2.	YH	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.		FIRE BRIGADE CONNECTION
4.		BUTTERFLY VALVE
5.		NONRETURN VALVE (CHECK VALVE)
6.		ISOLATING VALVE WITH MASONARY CHAMBER

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		BALANCE TREATED WATER LINE
2.		RECYCLED WATER SUPPLY PIPE LINE.
3.		RISING MAIN WATER PIPE LINE.
4.		MUNICIPAL WATER SUPPLY PIPE LINE.
5.		ISOLATING VALVE
6.		MASONRY CHAMBER FOR ISOLATING VALVE
7.		PROPOSED TUBE WELL
8.		BASEMENT LINE
9.	GH	GARDEN HYDRANT

Project
PROPOSED COMMERCIAL BUILDING AT PLOT NO. C-1 IN PLOT NO. TS - 01, SECTOR 22-A, YAMUNA EXPRESSWAY, (U.P.) FOR M/S THREE C HOMES PVT. LTD.

Title
SITE PLAN

Subtitle
EXTERNAL WATER SUPPLY SYSTEM

Drawing released for
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Drg. no. EX / S-03
Scale 1 : 350
Date Dec. 2024
Drawn by Kulwant
Designed by R.K.
Checked by Anand Havelia

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