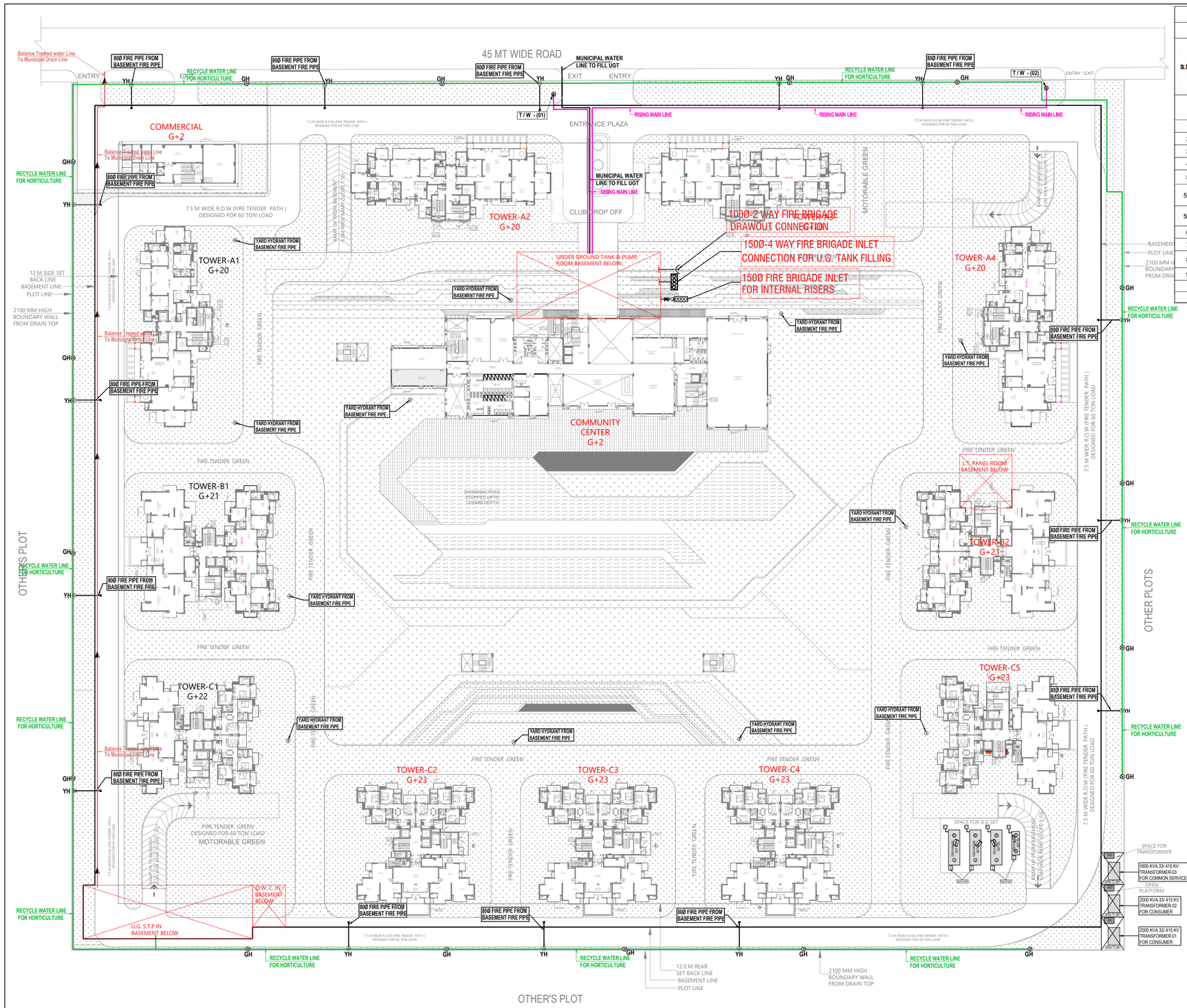

PROJECT - PROPOSED GROUP HOUSING AT PLOT NO. SC-02-G, SECTOR-150, NOIDA

WATER REQUIREMENT CALCULATIONS (SUBMISSION)

S.No.	Description	Built up Area	Horticulture Water Requirment	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)	per Sq.M Area				LPCD	LPD	LPCD	LPD	LPD	Domestic 90%	Flushing 100%	LPD
1	Apartments (4 BHK)			331	4.5	1489.5	90	134055	45	67027.5	201082.5	120650	67028	187677
2	Apartments (3 BHK)			453	4.5	2039	90	183465	45	91733	275198	165119	91733	256851
3	Floating Population					350	5	1750	10	3500	5250	1575	3500	5075
4	Maintenance Staff / Drivers					180	25	4500	20	3600	8100	4050	3600	7650
5	Population (Club)	4396			1.4 Sqm/person	3140								
5.1	Permanent Population (Club)				@ 10% of total population	310	25	7750	20	6200	13950	6975	6200	13175
5.2	Floating Polulation (Club)				@ 90% of total population	2830	5	14150	10	28300	42450	12735	28300	41035
6	Commercial (LS)							10000	0	0	10000	9000	0	9000
7	Filter Backwash							20000			20000		20000	20000
8	Makeup Water for Swimming Pool							10000			10000			
9	Horticulture	24400	4							97600	97600			
	Total							**385,670**		**297,960**	**683,630**	**320,103**	**220,360**	**540,463**

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION

	Description	Water Requirement (KLD)
	Domestic Fresh Water Requirement	386
	Recycle Water Requirement	298
	Flow to Sewer	540
	STP Capacity required	**540**
	Net water balance (to discharge into external municipal system)	243
	UGT Capacity	
	For Domestic Use (1 day storage)	390 KL
	For Fire Fighting	400 KL
	For Water Curtain	170 KL
	Total UGT Capacity	**960 KL**

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		RECYCLED WATER SUPPLY PIPE LINE.
2.		RISING MAIN WATER PIPE LINE.
3.		MUNICIPAL WATER SUPPLY PIPE LINE.
4.		ISOLATING VALVE
5.		PROPOSED TUBE WELL
5.		BASEMENT LINE
8.	GH	GARDEN HYDRANT

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

For ACE Infracity Developers Pvt. Ltd.

Rev. no.	Date	Revision
..	..	..

Project
PROPOSED GROUP HOUSING FOR M/S ACE INFRACITY DEVELOPERS PRIVATE LIMITED, AT PLOT NO: - SC-02/G, SECTOR - 150 NOIDA, (U.P.)

Title
SITE PLAN

Subtitle
EXTERNAL WATER SUPPLY SERVICES

Drawing released for
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Drg. no. ACE / EX / S-03	Drawn by Kulwant
Scale A1@ 1 : 550	Designed by R.K.
Date Feb. 2026	Checked by R.K.

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