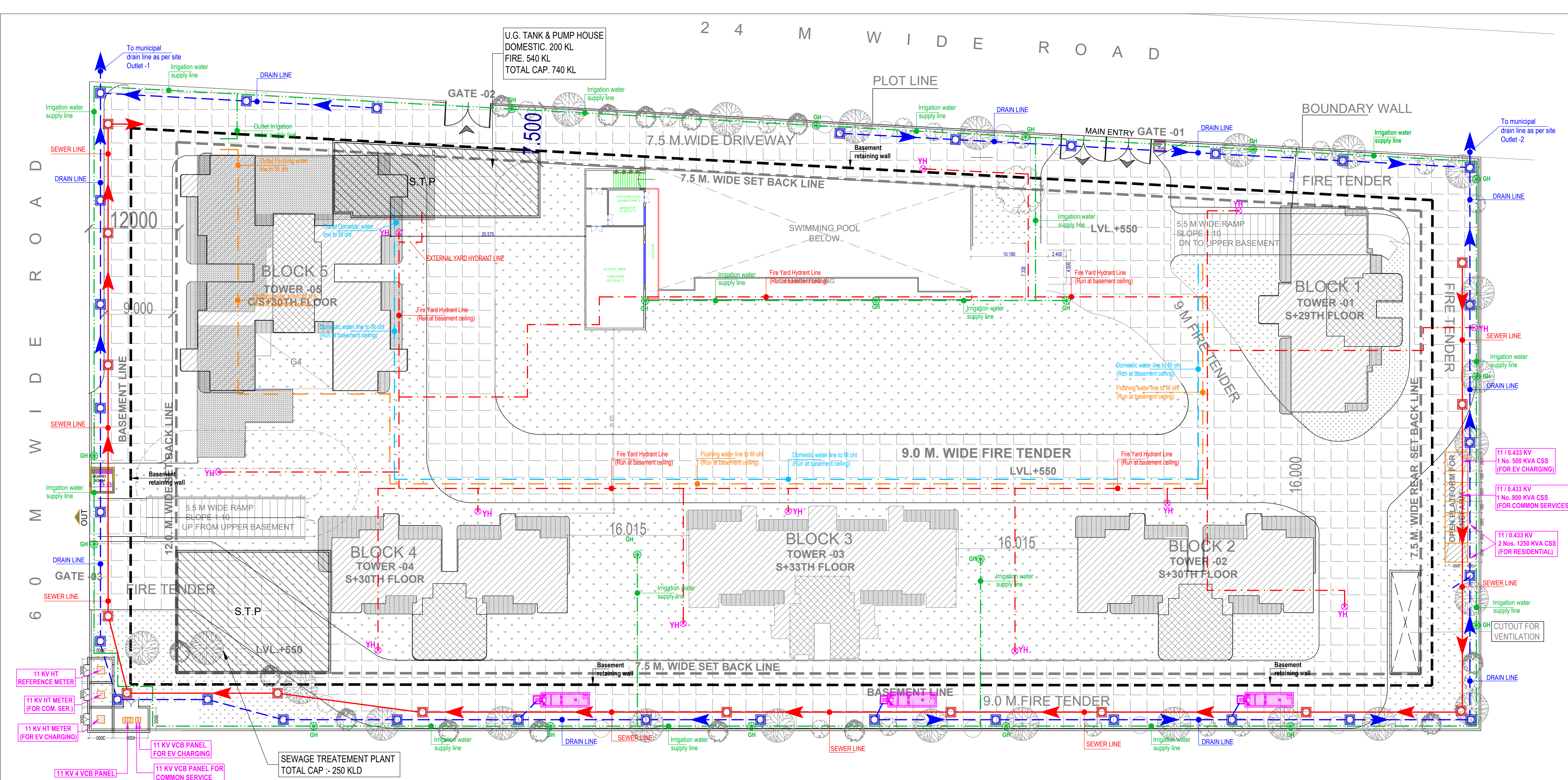
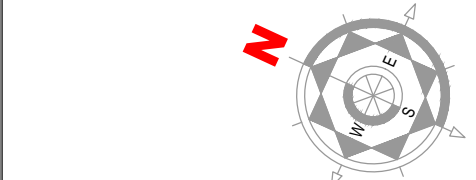


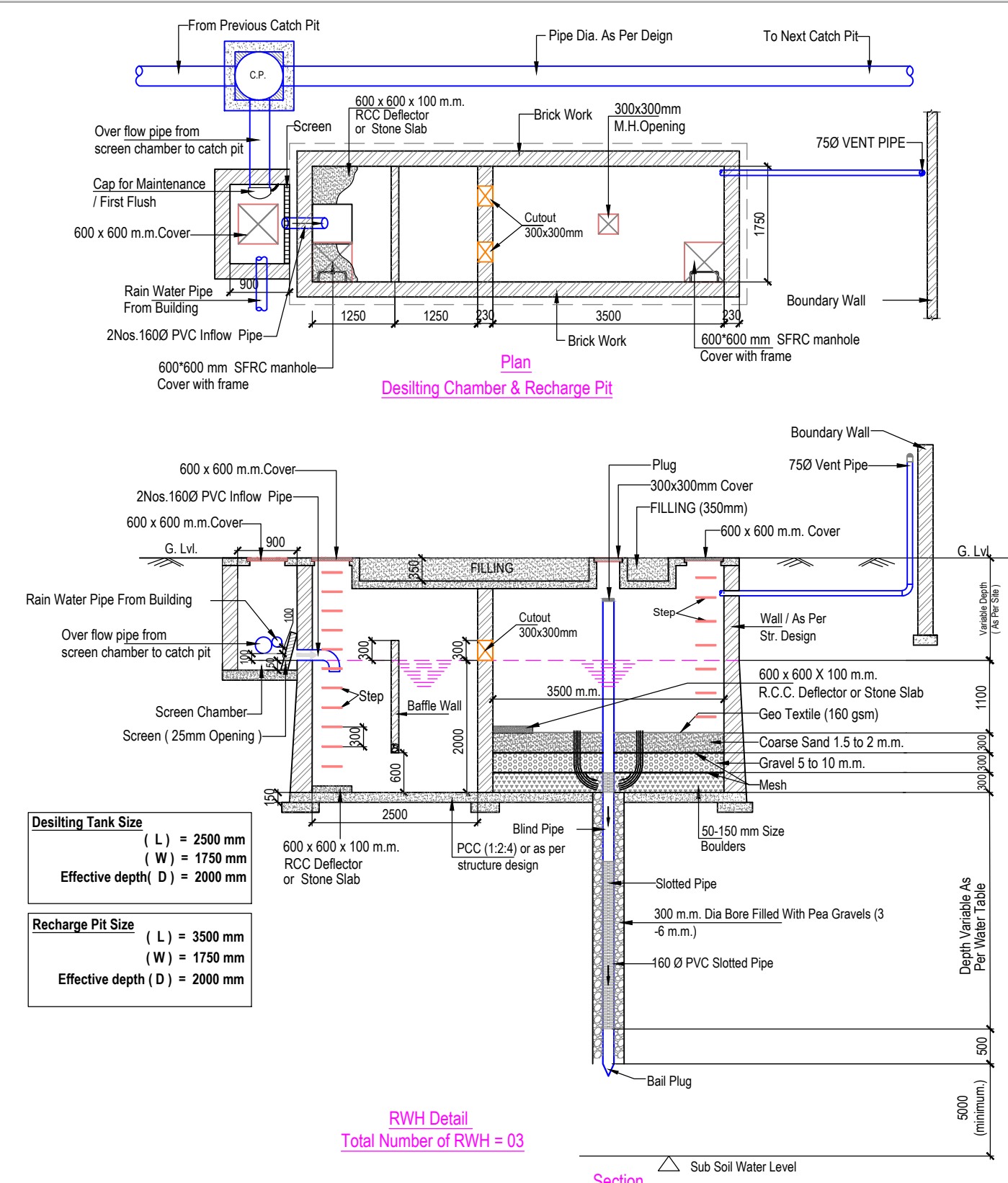


LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.	M.H.	MANHOLE
2.		SEWER LINE
3.	C.P.	CATCH PIT
4.		UNDER GROUND DRAIN
5.		DOMESTIC WATER LINE TO FILL DOMESTIC OHT
6.		FLUSHING WATER LINE TO FILL FLUSHING OHT
7.		IRRIGATION WATER SUPPLY LINE
8.		MUNICIPAL WATER SUPPLY PIPE LINE
9.	GH	GARDEN HYDRANT
10.		

LEGEND : FIRE SYSTEM		
S. No.	SYMBOL	DESCRIPTION
1.		YARD HYDRANT 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



PROJECT : PROPOSED HOUSING "CRC MAESTA" AT PLOT NO. GH-11B, SECTOR - 1, GREATER NOIDA (WEST)		
RAIN WATER HARVESTING CALCULATION (For Roof Top)		
The capacity of tank and recharge pit is designed to retain runoff for at least 15 minutes of rain fall of the peak intensity.		
Peak Rainfall in one hour	=	about 90 mm / hr
Peak Rainfall in 15 minutes, R	=	90 / 4 mm
	=	22.5 mm
	say	= 25 mm
Peak Rainfall in 15 minutes, R	=	0.025 m.
Total Terrace area, A	=	2600 sq.m.
Run off coefficient, C (Roof)	=	0.90
Hence total combined capacity of desilting tank and recharge pit required,	=	AxRx C
	=	59
Providing Desilting tank of size	=	2.5 x 1.75 x 2 m. effective depth
Capacity of desilting tank of given size (Cu.m.), a	=	8.75
Providing Recharge pit of size	=	3.5 x 1.75 x 2 m. effective depth
Capacity of recharge pit of given size (Cu.m.), b	=	12.25
Hence total combined capacity of one set of desilting tank and recharge pit, (Cu M)	=	a+b
	=	21
Therefore no. of desilting tank and recharge pit required	=	(AxRx C) / (a+b)
	=	1.31 nos.
Say,	=	3 nos.
Hence, 3 nos. sets of rechrg pit and desilting tank are required of following size :		
Desilting tank	=	2.5 x 1.75 x 2 m. effective depth
Recharge pit	=	3.5 x 1.75 x 2 m. effective depth



Rev. No.	Date	Revision
..	..	..

Project :
PLOT NO-GH-11B SECTOR-1
GREATER NOIDA WEST CRC MAESTA

Title :
LAYOUT PLAN

Subtitle :
EXTERNAL COMBINED SERVICES

Drawing Released For :
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Drg. No : CRC MAESTA / ES -01

Scale : 1 : 300 Drawn By : Amit Kamboj

Date : May 2024 Design By : Sanjay Goel

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