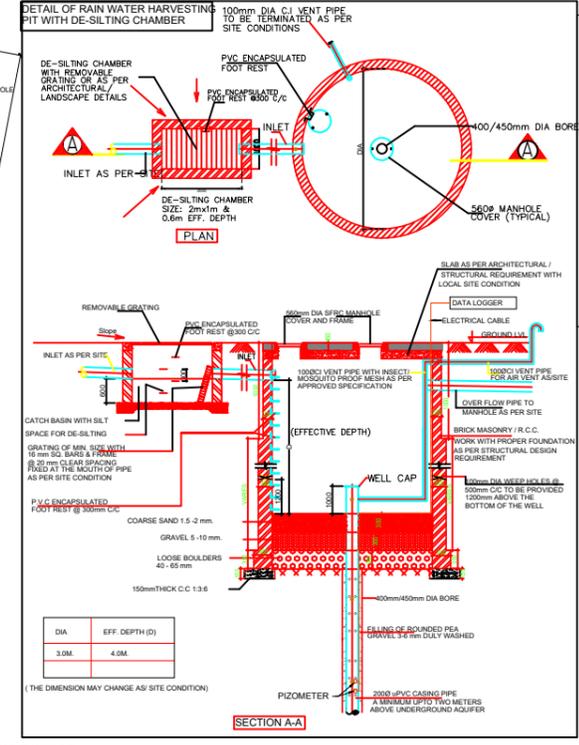


SITE PLAN



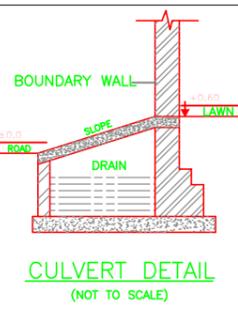
DETAIL OF RAIN WATER HARVESTING PIT WITH DE-SILTING CHAMBER

GENERAL GUIDELINE FOR SELECTING THE SIZE OF CATCH BASIN

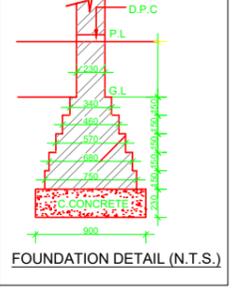
S.NO.	SIZE OF CB	DEPTH OF CB
1	CB 400x400mm	0.40m DEPTH TO 0.60m DEPTH
2	CB 600x600mm	0.60m DEPTH TO 0.75m DEPTH
3	CB 750x750mm	0.75m DEPTH TO 0.90m DEPTH
4	CB 900x900mm	0.90m DEPTH TO 1.20m DEPTH

SUBJECT: PARAMETERS FOR RAINWATER CALCULATIONS

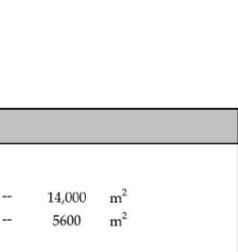
(I) Areas		
a) Total Area of the Site / Plot	--	14,000 m ²
b) Terrace/Roof area	--	5,600 m ²
(II) Intensity		
a) Annual Average Rainfall	--	797.3 mm
b) Constant Coefficient for Rainfall	--	0.8
c) Average Monsoon rainfall considered for Design Calculations	--	637.84 mm
(III) Co-Efficient and factors Adopted		
a) Harvesting efficiency factor for terraces & rooftops	--	0.9
(IV) Coefficient for Calculation for Capacity for Collection Wells for Harvesting		
a) Peak Hourly rainfall assumed	--	90 mm
b) Retention time for capacity of Recharge Tank	--	60 Minutes
c) Net run off for which holding is required for infiltration	--	30 mm
(V) SIZE OF DE-SILTING CHAMBER - 2M XIM & 0.6M EFF. DEPTH		
(VI) SIZE OF PERCOLATION - 3M X 2.5M X 3M		



BOUNDARY WALL

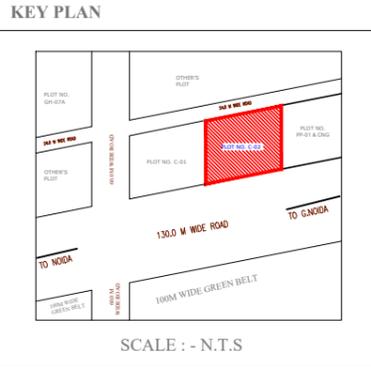


CULVERT DETAIL (NOT TO SCALE)



FOUNDATION DETAIL (N.T.S.)

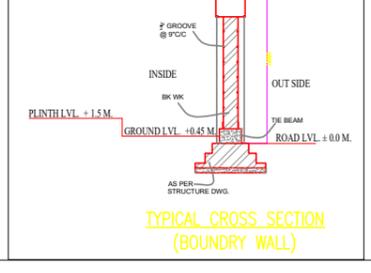
- NOTES:-
1. ALL DIMENSIONS & LEVELS ARE IN MILLIMETERS.
 2. ALL THE AREAS INDICATED ARE IN SQ.M.
 3. COLUMNS ARE ONLY INDICATIVE AND WILL BE AS PER RELEVANT STRUCTURAL DRAWINGS.
 4. ENTIRE BUILDING WILL BE CENTRALLY AIR CONDITIONED AND ALL STORES & TOILETS, KITCHEN & PANTRIES WILL BE MECHANICALLY VENTILATED.
 5. ALL EXIT DOORS SHALL HAVE 1 HOUR FIRE RESISTANT RATING.
 6. ALL LIFT, ESCALATOR & MACHINE ROOM SHOULD BE AS PER ISI STANDARD.
 7. THE BUILDING SHALL BE FULLY SPRINKLED EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM.



KEY PLAN



TYPICAL CROSS SECTION (BOUNDARY WALL)



TYPICAL CROSS SECTION OF ISOLATED FOUNDATION (NOT TO SCALE)

PLUMBING SUBMISSION DRAWING

PROJECT
PROPOSED SUBMISSION DRAWING FOR COMMERCIAL (TREHAN-IRIS) AT PLOT NO. C - 02, SECTOR- ECOTECH-12, GREATER NOIDA (U.P.)

OWNER
RUVIK BUILD TECH PRIVATE LTD., D-326, GROUND FLOOR, ANAND VIHAR COLONY, NEW DELHI-110092

ARCHITECT'S SEAL
OWNER'S SEAL

ARCHITECT
modarchindia
architects interior designers & planners
studio: 1st floor, B-59, sector-63, Noida -201301, U.P.
phone: 9120-4206253, email: aminganga@hotmail.com
website: www.modarch.in

Drawing Title
SITE PLAN FOR DRAINAGE SYSTEM & AREA CALCULATION

Checked by MANISH TIWARI Date
Drawn by LOKESH SHARMA Scale 1:250
Drawing No. PL-2

SUBJECT: CALCULATIONS FOR INFILTRATION STRUCTURES

S. NO.	DESCRIPTION	DETAILS	UNITS
1	For Roof/Terrace only		
(i)	Average Runoff co-efficient for terraces and other built-up areas.	0.9	
(ii)	Area-1 considered (For Terrace/Roof Only)	5,600	m ²
(iii)	One Hour Intensity of rainfall considered (Peak)	90	mm/hour
(iv)	Infiltration well capacity design period	15	minutes
(v)	Theoretical Volume of Infiltration Wells required. Approximately (Total Area x 0.9 x 90 x 15/60 /1000)	113.40	m ³
2	Total Volume & Size of Wells		
(i)	Total Volume as per Above	113.40	
(ii)	Size of the Wells (3 meters dia. & 4 meters eff. Depth)		
(iii)	Volume of 1 Infiltration well	28.3	m ³
(iv)	Number of Infiltration Wells Provided	4	

AREA ANALYSIS- TREHAN IRIS

Particulars	Area
Total Plot Area	14,000.000
Permissible Ground Coverage	40%
Proposed Ground Coverage	39.996%
Permissible F.A.R. (A)	4
Proposed F.A.R.	3.928
Additional 15% F.A.R. Area (15% of Permissible F.A.R.)	8,400.000
Proposed 15% F.A.R. Area	16.092%
Exceeded 15% F.A.R. Area	1.092%
So Proposed F.A.R. with Exceeded 15% F.A.R. Area	3.972

Proposed Additional 15% of F.A.R. Area

Particulars	Area
15% F.A.R. Area of Building (From Detailed Area chart)	9011.793
Total	9011.793

Proposed Ground Coverage Calculation

Particulars	Area	Percentage
F.A.R. Area of Ground Floor	5,086.471	
15% F.A.R. Area on Ground Floor	344.889	
Building Projection Area	150.015	
Area of Guard Room	9.000	
Area of Meter Room	9.000	
Total	5,599.375	39.996%

Required Parking Calculation

Particulars	Area	Space/Car	Parking Required
Retail	28,523.363	50	590
Office	13,830.482	50	277
Hotel	96 Nos Rooms	Per Room One	96
Multiplex / Cinema (Seats)	1168	15	78
Total			1041

Proposed Parking Calculation

Particulars	Parking Area	Space/Car	No. of Parking	Parking Provided
Basement-2 (Mechanical Parking)	9359.878	18	519.993	519
Basement-3 (Mechanical Parking)	9569.588	18	531.644	531
Total	18929.466			1050

Proposed Landscape Area Calculation

Open Area = Total Plot Area - Total Ground Coverage =	8,400.000
Required Landscape Area (50% of Open Area) =	4,200.000
Proposed Landscape Area =	4,210.000
No of Tree Required (One Tree per 100 Sqm. of open area) =	84
No of Tree Proposed =	85

Proposed Built-up Area Calculation

Particulars	F.A.R. Area	Service Area (15% F.A.R. area)	Non F.A.R. Area	Total Built-up Area
Built-up Area Calculation	55607.091	8,400.000	23,588.895	87595.986

DETAILED AREA CHART-TREHAN IRIS

FLOORS	RETAIL		HOTEL		OFFICE		TOTAL	
	F.A.R.	15% AREA	F.A.R.	15% AREA	F.A.R.	15% AREA	NON F.A.R.	15% AREA
BASEMENT - 3		880.994					10,362.275	880.994
BASEMENT - 2		649.571					10,210.167	649.571
BASEMENT - 1	8129.061	1,081.956					1,270.789	1,081.956
GROUND FLOOR	5086.471	344.889					344.889	5,086.471
1st FLOOR	4796.795	413.688					413.688	4,796.795
2nd FLOOR	4681.972	468.547					468.547	4,681.972
3rd FLOOR	4906.676	420.613					420.613	4,906.676
4th FLOOR	3586.556	574.736					574.736	3,586.556
5th FLOOR	2675.832	385.823					385.823	2,675.832
6th FLOOR			2919.161	438.038			438.038	2,919.161
7th FLOOR/Service Floor (Office)			616.726	144.028			144.028	616.726
8th FLOOR/Service Floor-2 (Hotel)					921.076	135.795	1,031.741	135.795
9th FLOOR			625.714	123.150	921.076	135.795	258.945	1,546.790
10th FLOOR			625.714	123.150	921.076	135.795	258.945	1,550.378
11th FLOOR			627.986	123.150	921.076	135.795	258.945	1,549.062
12th FLOOR			625.714	123.150	921.076	135.795	258.945	1,546.790
12th-A FLOOR			625.714	123.150	921.076	135.795	258.945	1,546.790
14th FLOOR			625.714	123.150	924.664	135.795	258.945	1,550.378
15th FLOOR			921.076	135.795	921.076	135.795	135.795	921.076
16th FLOOR			921.076	135.795	921.076	135.795	135.795	921.076
17th FLOOR			921.076	135.795	921.076	135.795	135.795	921.076
18th FLOOR			924.664	135.795	921.076	135.795	135.795	924.664
19th FLOOR			921.076	135.795	921.076	135.795	135.795	921.076
20th FLOOR			921.076	135.795	921.076	135.795	135.795	921.076
21st FLOOR			921.076	135.795	921.076	135.795	135.795	921.076
22nd FLOOR			924.664	135.795	924.664	135.795	135.795	924.664
TERRACE FLOOR							424.085	
GUARD ROOM (Ground)								9.000
METER ROOM (Ground)								9.000
TOTAL	33,863.363	5,220.817	7,292.443	1,320.966	13,830.492	2,036.925	23,588.895	9,011.793