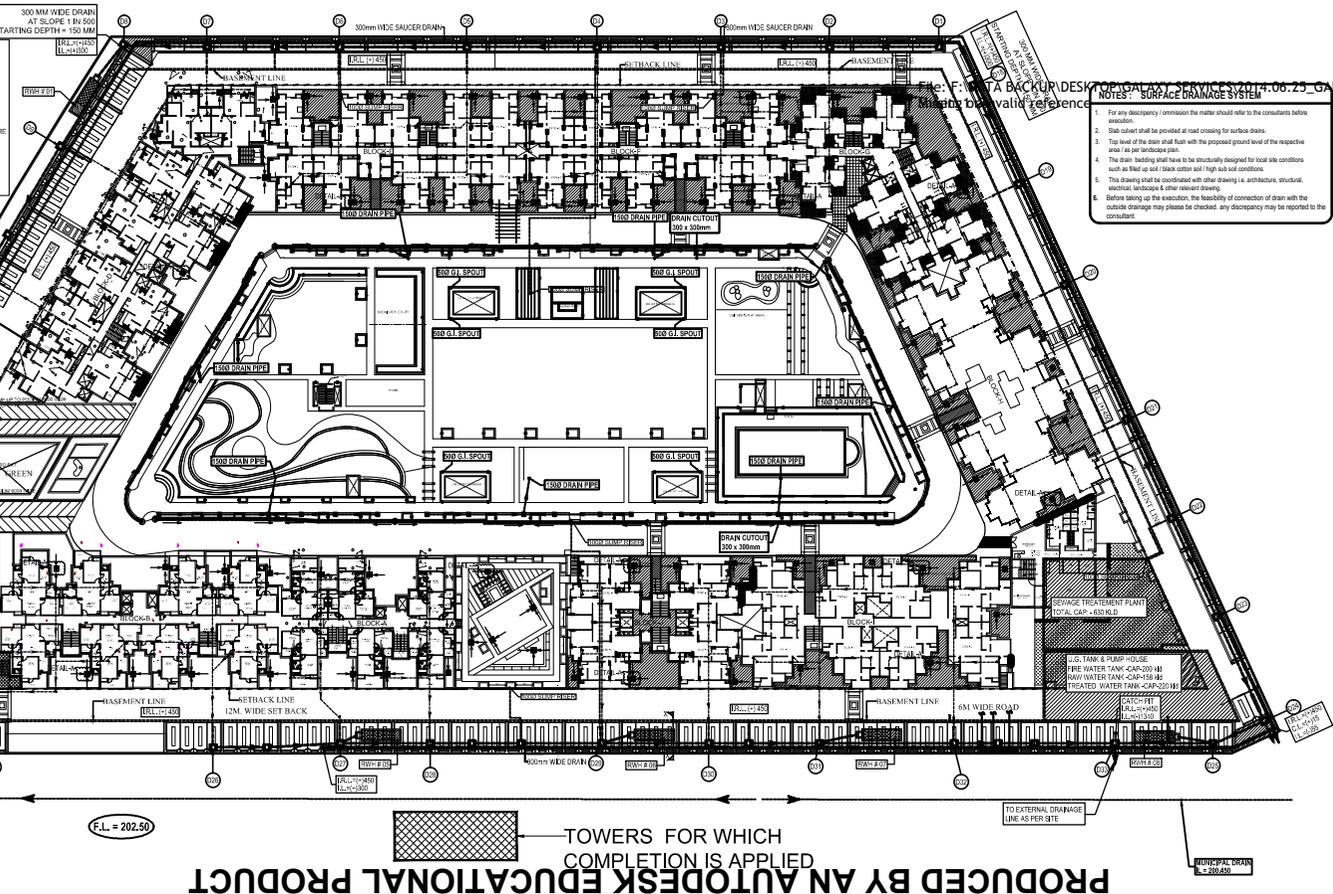
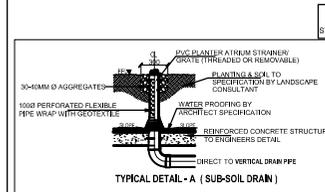


Catch Pit No.	From	To	Length (m)	Dia. (mm)	Slope	C.P. Top Level		Invert Level		Depth (m)
						Upper End	Lower End	Upper End	Lower End	
D1	02	30	300	500	0.45	-1.00	-1.45	-1.06	-1.51	
D2	D3	20	300	500	0.45	-1.06	-1.51	-1.10	-1.55	
D3	D4	25	300	500	0.45	-1.10	-1.55	-1.15	-1.60	
D4	D5	23	300	500	0.45	-1.15	-1.60	-1.20	-1.65	
D5	D6	25	300	500	0.45	-1.20	-1.65	-1.25	-1.70	
D6	D7	25	300	500	0.45	-1.24	-1.69	-1.29	-1.74	
D7	D8	15	400	550	0.45	-1.29	-1.74	-1.32	-1.77	
D8	D9	29	400	550	0.45	-1.32	-1.77	-1.35	-1.81	
D9	D10	28	400	550	0.45	-1.35	-1.81	-1.41	-1.86	
D10	D11	17	400	550	0.45	-1.41	-1.86	-1.44	-1.89	
D11	D12	48	400	550	0.45	-1.44	-1.89	-1.53	-1.98	
D12	D13	18	400	550	0.45	-1.53	-1.98	-1.56	-2.01	
D13	D14	22	400	550	0.45	-1.56	-2.01	-1.60	-2.05	
D14	D15	20	300	500	0.45	-1.60	-2.05	-1.64	-2.09	
D15	D16	18	300	500	0.45	-1.64	-2.09	-1.68	-2.13	
D16	D17	19	300	500	0.45	-1.68	-2.13	-1.70	-2.15	
D17	D18	19	300	500	0.45	-1.70	-2.15	-1.72	-2.17	
D18	D19	20	300	500	0.45	-1.72	-2.17	-1.74	-2.19	
D19	D20	22	300	500	0.45	-1.74	-2.19	-1.76	-2.21	
D20	D21	17	300	500	0.45	-1.76	-2.21	-1.78	-2.23	
D21	D22	20	300	500	0.45	-1.78	-2.23	-1.80	-2.25	
D22	D23	22	300	500	0.45	-1.80	-2.25	-1.82	-2.27	
D23	D24	22	300	500	0.45	-1.82	-2.27	-1.84	-2.29	
D24	D25	12	300	500	0.45	-1.84	-2.29	-1.86	-2.31	
D25	D26	18	300	500	0.45	-1.86	-2.31	-1.88	-2.33	
D26	D27	23	300	500	0.45	-1.90	-2.35	-1.92	-2.37	
D27	D28	22	300	500	0.45	-1.92	-2.37	-1.94	-2.39	
D28	D29	32	300	500	0.45	-1.94	-2.39	-1.96	-2.41	
D29	D30	20	300	500	0.45	-1.96	-2.41	-1.98	-2.43	
D30	D31	22	300	500	0.45	-1.98	-2.43	-2.00	-2.45	
D31	D32	25	300	500	0.45	-1.98	-2.43	-2.02	-2.47	
D32	D33	30	300	500	0.45	-1.98	-2.43	-2.04	-2.49	
D33	OUT	5	400	550	0.45	-1.94	-1.73	-1.35	-1.80	



**LEGEND :**

S. No.	SYMBOL	DESCRIPTION
1.	C.P. PIT	CATCH PIT
2.	UNDER GROUND PIPE DRAIN	UNDER GROUND PIPE DRAIN
3.	35mm WIDE DRAIN	35mm WIDE DRAIN
4.	300mm WIDE SAUCER DRAIN	300mm WIDE SAUCER DRAIN
X.	RAIN WATER HARVESTING	RAIN WATER HARVESTING
A.	INTERNAL ROAD LEVEL	INTERNAL ROAD LEVEL
1.	F.L.	FORMATION LEVEL
2.	I.L.	INVERT LEVEL
3.	C.L.	CONNECTION LEVEL
10.	500 G.G. SPOUT	500 G.G. SPOUT
11.	BASEMENT RETAINING WALL	BASEMENT RETAINING WALL

- NOTES : DRAINAGE SYSTEM**
- The size of catchpit shall be as under (inner sizes) :
    - a) Max 800 mm dia, depth 600 x 600 mm.
    - b) 900 x 900 mm dia, depth 800 mm dia.
    - c) 1000 x 1000 mm dia, depth 1000 mm dia.
    - d) Max 1200 mm dia, depth 1000 mm dia.
  - The level of drainage line has been worked out on the basis of center ground level and for certain poor heights where the catchpit, the invert levels has to be checked. However, the floor of the room may be raised.
  - For any discrepancy / omission the matter should refer to the consultants before execution.
  - Catchpit shall be provided at following places :
    - a) At the start of each drain line.
    - b) At every junction and position where there is change of slope, GRADIENT AND ALIGNMENT.
    - c) At least more than 15 meter intervals in straight length.
  - The structural design of catchpit (base leveling has to be done to local site conditions) shall be as per detail shown and shall be approved by the structural engineer.
  - Drainage line under the road shall be covered with 150 mm dia, size 1.2x4.0mm.
  - Catchpit cover shall be finished with finished formation level as per foundation drawing. The cover of catchpit shall be made as per architectural drawing & shall be covered with landscape drawing.
  - The drawing shall be coordinated with other drawing i.e. architecture, structural & electrical drawings & other relevant drawing.
  - Material of pipe : RCC (N) 3/4 Pipe with rubber ring joint.
  - In the areas where the subsidence or flood is not possible to avoid, provision shall be made for the construction of basement, the drain line & catchpit should be laid on suitable support or concrete grade supported on piles or suitable foundation as per structural design.
  - In case where drain was laid in high subsoil conditions catchpits should be constructed in 1.5x1.5 m dia.
  - The width of trench for sewer and drainage should be 400mm, 1/2 dia, of pipe.
  - Shoring / bracing should be provided to prevent collapse of the trench walls of excavation of sewer adjacent to the trench, an engineer-in-charge in consultation with a structural engineer should provide accurate arrangement to prevent collapse.
  - Before taking up the execution, the feasibility of connection of drain with the outside drainage may please be checked, any discrepancy may be reported to the consultant.

DRAWING FOR THE GROUP HOUSING AT PLOT NO. CC-03/04/03 SECTOR 16C, GREATER NOIDA.

OWNER: M/S. GALAXY DREAM HOME DEVELOPERS (P) LTD., THROUGH DIRECTOR/PROJECT MANAGER ANURAG KUMAR.

DRAWING TITLE: **SITE PLAN EXTERNAL DRAINAGE SYSTEM**

SCALE: R.T.S. DATE: \_\_\_\_\_

DESIGN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DWG. NO: **SD-03**

Services Consultant: **Consunmate Engineering Services (P) Ltd.**  
 Head Office: B-12, Sector-42, Noida-201301  
 Tel: (0120) 6943500 (30 Lines)  
 Fax: (0120) 6943465  
 e-mail: mail@ceespil.com, website: www.ceespil.in