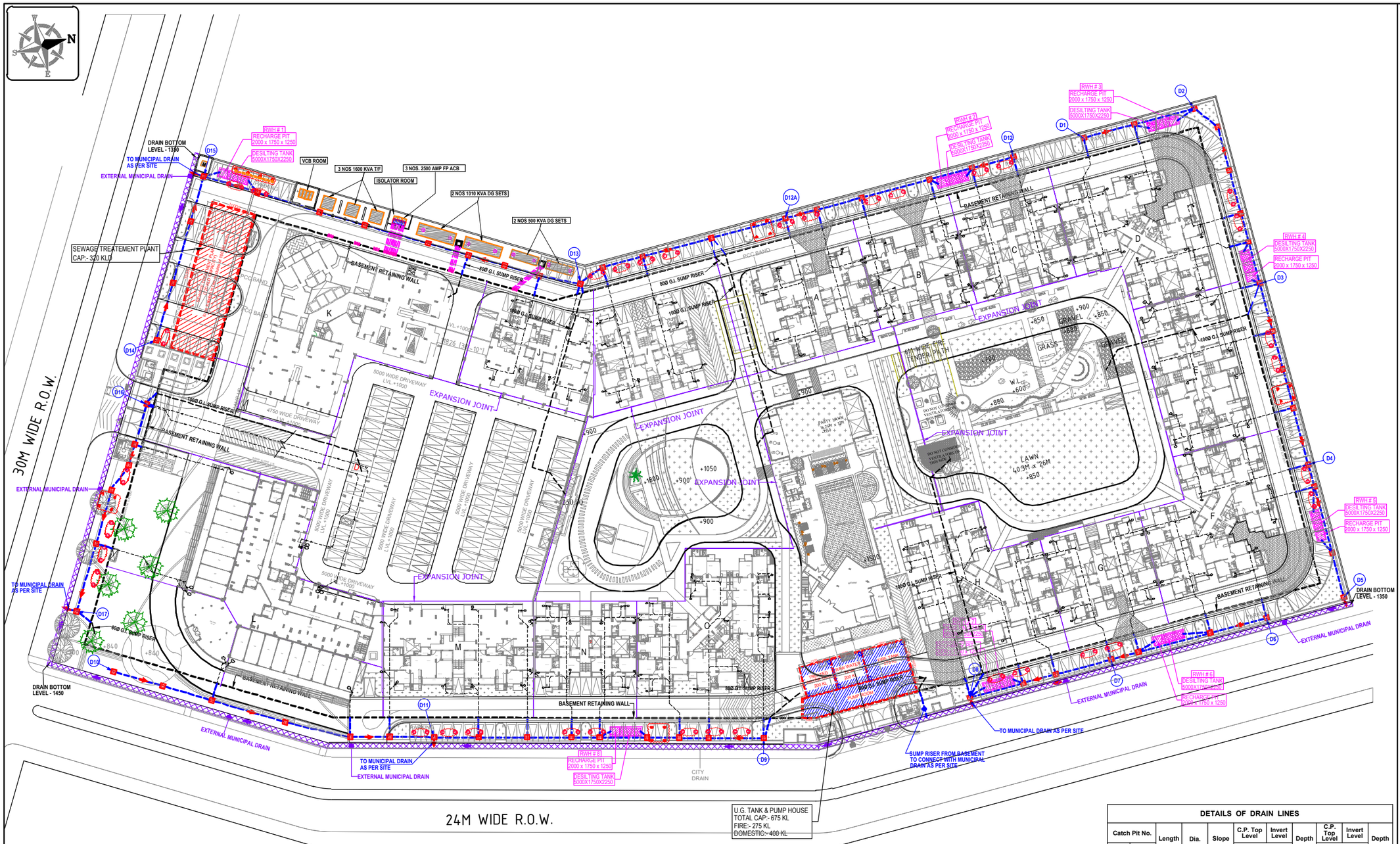

THE SEWAGE AND DRAINAGE MANHOLE LOCATIONS IN FRONT OF TOWER-K AS SHOWN IN THE GFC IS TENTATIVE. THEREFORE THE SITE EXECUTION TEAM HAS TO MAKE SURE THAT ONCE THE TOWER-K WORK IS BEING EXECUTED THEY NEED TO INFORM OUR OFFICE FOR THE EXACT LOCATION OF THE SEWAGE AND DRAINAGE MANHOLES.

DETAILS OF DRAIN LINES

Catch Pit No.		Length	Dia.	Slope	C.P. Top Level	Invert Level	Depth	C.P. Top Level	Invert Level	Depth
From	To				Upper End			Lower End		
		(m)	(mm)	1 in	(m)	(m)	(m)	(m)	(m)	(m)
D1	D2	27	300	550	0.75	-0.90	1.65	0.75	-0.95	1.70
D2	D3	45	300	550	0.75	-0.95	1.70	0.75	-1.03	1.78
D3	D4	44	300	550	0.75	-1.03	1.78	0.75	-1.11	1.86
D4	D5	32	300	550	0.75	-1.11	1.86	0.75	-1.17	1.92
D5	OUT	2	300	550	0.75	-1.17	1.92	0.75	-1.17	1.92
D6	D7	38	300	550	0.75	-0.95	1.70	0.75	-1.02	1.77
D7	D8	34	300	550	0.75	-1.02	1.77	0.75	-1.08	1.83
D8	OUT	2	300	550	0.75	-1.08	1.83	0.75	-1.08	1.83
D9	D11	77	300	550	0.75	-0.95	1.70	0.75	-1.09	1.84
D10	D11	77	300	550	0.75	-1.09	1.84	0.75	-1.23	1.98
D11	OUT	5	300	550	0.75	-1.23	1.98	0.75	-1.24	1.99
D12	D12A	55	400	750	0.75	-0.95	1.70	0.75	-1.02	1.77
D12A	D13	52	400	750	0.75	-1.02	1.77	0.75	-1.09	1.84
D13	D15	91	400	750	0.75	-1.09	1.84	0.75	-1.21	1.96
D14	D15	40	300	550	0.75	-0.95	1.70	0.75	-1.02	1.77
D15	OUT	3	400	750	0.75	-1.21	1.96	0.75	-1.22	1.97
D16	D17	55	300	550	0.75	-0.95	1.70	0.75	-1.05	1.80
D17	OUT	3	300	550	0.75	-1.05	1.80	0.75	-1.06	1.81

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.	C.P.	CATCH PIT
2.		UNDER GROUND DRAIN
3.		RAIN WATER HARVESTING & DESILTING TANK
4.		BASEMENT RETAINING WALL
5.		600 x 600 x 6 MM G.I. PLATE EARTHING
6.		MAINTENANCE FREE EARTHING
7.		

NOTES : DRAINAGE

1. THE SIZE OF CATCHPIT SHALL BE AS UNDER (INNER SIZES)
   a) UPTO 900 M.M. DEPTH — 600 X 600 M.M.
   b) 900 TO 1650 M.M. DEPTH — 900 M.M. DIA.
   c) 1650 TO 2250 M.M. DEPTH — 1200 M.M. DIA.
   d) ABOVE 2250 M.M. DEPTH — 1500 M.M. DIA.
2. THE LEVELS OF DRAINAGE LINES HAS BEEN WORKED OUT ON THE BASIS OF CERTAIN GROUND LEVEL AND FOR CERTAIN PIPE LENGTHS BETWEEN TWO CATCHPITS. THE INVERT LEVELS HAS TO BE STRICTLY FOLLOWED. HOWEVER, THE SLOPE OF LINE MAY BE SLIGHTLY CHANGED.
3. FOR ANY DESCRIPENCY / OMMISSION THE MATTER SHOULD REFER TO THE CONSULTANTS BEFORE EXECUTION.
4. 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 SIZE, GRADIENT AND ALIGNMENT.
   c) AT NOT MORE THAN 15 METER INTERVAL IN STRAIGHT LENGTH.
5. WHERE THE DIAMETER OF PIPE IS INCREASED THE CROWN OF THE PIPE SHALL BE FIXED AT THE SAME LEVEL AND NECESSARY SLOPE SHALL BE GIVEN IN THE INVERT OF THE CATCHPIT CHAMBER.
6. THE STRUCTURAL DESIGN OF CATCHPIT / PIPE BEDDING HAS TO BE DONE FOR LOCAL FIELD CONDITIONS SUCH AS FILLED UP SOIL / BLACK COTTON SOIL / HIGH SUB SOIL CONDITIONS.
7. THIS DRAWING SHALL BE READ ALONG WITH THE GROUND FLOOR PLAN OF RESPECTIVE BUILDING FOR EXACT LOCATION OF APPURTENANCES / MAN HOLES ETC.
8. DRAINAGE LINE UNDER THE ROAD SHALL BE ENCASED WITH 150 TH, PCC 1:2:4 ALLROUND.
9. CATCHPIT COVER SHOULD BE FINISHED WITH FINISHED FORMATION LEVEL AS PER LANDSCAPE DRAWING.
10. THIS DRAWING SHALL BE COORDINATED WITH OTHER DRAWING I.E. ARCHITECTURE, STRUCTURAL, ELECTRICAL, LANDSCAPE & OTHER RELEVANT DRAWING.
11. MATERIAL OF PIPE :-
    a) FOR 250 Ø TO 450 Ø — RCC (NP 2) PIPE
12. **IN THE AREAS SUBJECT TO SUBSIDENCE OR FILLED UP SOIL (DUE TO EXCES EXCAVATION AT SITE FOR CONSTRUCTION OF BASEMENTS) THE DRAIN LINES & CATCHPIT SHOULD BE LAID ON SUITABLE SUPPORT OR CONCRETE CRADLE SUPPORTED ON PILES OR SUITABLE FOUNDATION AS PER STRUCTURAL DESIGN.**
13. **IN CASE WHERE SEWERS ARE LAID IN HIGH SUBSOIL CONDITIONS MANHOLES SHOULD BE CONSTRUCTED IN R.C.C. GARDE M-25.**
14. THE WIDTH OF TRENCH FOR SEWER AND DRAINAGE SHOULD BE D+ 400MM. (D= O.D. OF PIPE).
15. SHORING / TIMBERING SHOULD BE ADEQUATE TO PREVENT CAVING-IN OF THE TRENCH WALLS OF SUBSIDENCE OF AREAS ADJACENT TO THE TRENCH. AN ENGINEER-IN-CHARGE IN CONSULTATION WITH A STRUCTURAL ENGINEER SHOULD PROVIDE ADEQUATE ARRANGEMENT TO PREVENT CAVING-IN.

Rev. No.	Date	Revision
R3	20.June.2013	TOWER-L HEADER LINE ADDED
R2	06.MAR.2013	ISSUED G.F.C.
R1	11.FEB.2013	ISSUED ADVANCE COPY

Project :
PROPOSED GROUP HOUSING AT PLOT NO.-7B,SECTOR- 137, NOIDA. FOR - AJNARA CONSTRUCTIONS

Title :
SITE PLAN

Subtitle :
EXTERNAL DRAINAGE SYSTEM

Drawing Released For :
☐ APPROVAL ☐ SUBMISSION
☐ ADVANCE COPY ■ CONSTRUCTION

Drg. No : **DD-00 / ES-02 / R5**

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