



LEGEND :		
S.No.	SYMBOL	DESCRIPTION
1.	M.H.	MANHOLE
2.	SEWER LINE	SEWER LINE
3.	BASEMENT RETAINING WALL	BASEMENT RETAINING WALL
4.	I.R.L. (+) 900	INTERNAL ROAD LEVEL
5.	F.L.	FORMATION LEVEL
6.	I.L.	INVERT LEVEL
7.	C.L.	CONNECTION LEVEL

- NOTES : SEWERAGE SYSTEM**
- THE SIZE OF MANHOLE 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.
 - the levels of sewer lines has been worked out on the basis of certain ground level and for certain pipe lengths between two manholes, the invert levels has to be strictly followed, however, the slope of line may be slightly changed.
 - For any discrepancy / omission the matter should refer to the consultants before execution.
 - Manhole shall be provided at following places :-
a) At the start of each sewer line.
b) At every junction and position where there is change of size, gradient and alignment.
c) At not more than 45 meter interval in straight length.
 - 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 manhole chamber.
 - The structural design of manholes / pipe bedding has to be done for local field conditions such as filled up soil / black cotton soil / high sub soil conditions.
 - This drawing shall be read along with the detailed landscape plan & ground floor plan of respective building for exact location of appurtenances / manholes etc.
 - Sewer line under the road shall be encased with 150 thick, pcc 1:2:4 allround.
 - Manhole cover should be finished with finished formation level as per landscape drawing, the cover of manhole shall be square as per appurtenances drawing & should be co-ordinated with landscape drawing.
 - This drawing shall be coordinated with other drawing i.e. architecture, structural, electrical, landscape & other relevant drawing.
 - Material of pipe > RCC (NP 3) Pipe with rubber ring joint
 - In the areas subject to subsidence or filled up soil (due to excess excavation at site for construction of basements) the sewer lines & manhole should be laid on suitable support or concrete cradle supported on piles or suitable foundation as per structural design.
 - In case where sewers are laid in high sub soil conditions manholes should be constructed in r.c.c. grade m-25.
 - The width of trench for sewer and drainage should be 400mm. (dr o.s. of pipe).
 - 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.

- 24 M. WIDE GREEN BELT
- COMPLETED PHASE
- PHASE, EROS SAMPOORNAM 1 SHOWN THUS
AREA 16,380.00 Sqm. (Approx.)
- PHASE, EROS SAMPOORNAM 2 SHOWN THUS
AREA 13,534.00 Sqm. (Approx.)
- PHASE, EROS SAMPOORNAM 3 SHOWN THUS
AREA 21,555.00 Sqm. (Approx.)

rev. no.	date	revision
project EROS SAMPOORNAM GROUP HOUSING at GREATER NOIDA (WEST)		
title PHASE - III & IV SITE PLAN		
subtitle EXTERNAL SEWERAGE SYSTEM		

drawing released for <input type="checkbox"/> APPROVAL <input type="checkbox"/> ADVANCE COPY		<input type="checkbox"/> SUBMISSION <input type="checkbox"/> CONSTRUCTION
drg. no. CES / ES / SP / PL-04	drawn by Arjun	
scale A1@1 : 475	designed by Shakir Sabbir	
date NOV.2018	checked by Anand Havella	

architects VAIBHAVJAIN & ASSOCIATES 195, RAM VIHAR, DELHI-110092 PHONE/FAX : 42918322, 22377102 E mail : avinash@nae.co.in, info@nae.co.in	
services consultant Consummate Engineering Services (P) Ltd. Noida Office : B - 67, Sector - 67, Noida - 201 301 Tel : (0120) 2593500 (30 Lines) Lko Office : R 086, Rohas Plumeria, Gomti Nagar, Lucknow Tel : (0522) 8515455 e mail : mail@cespln, website : www.cespln	