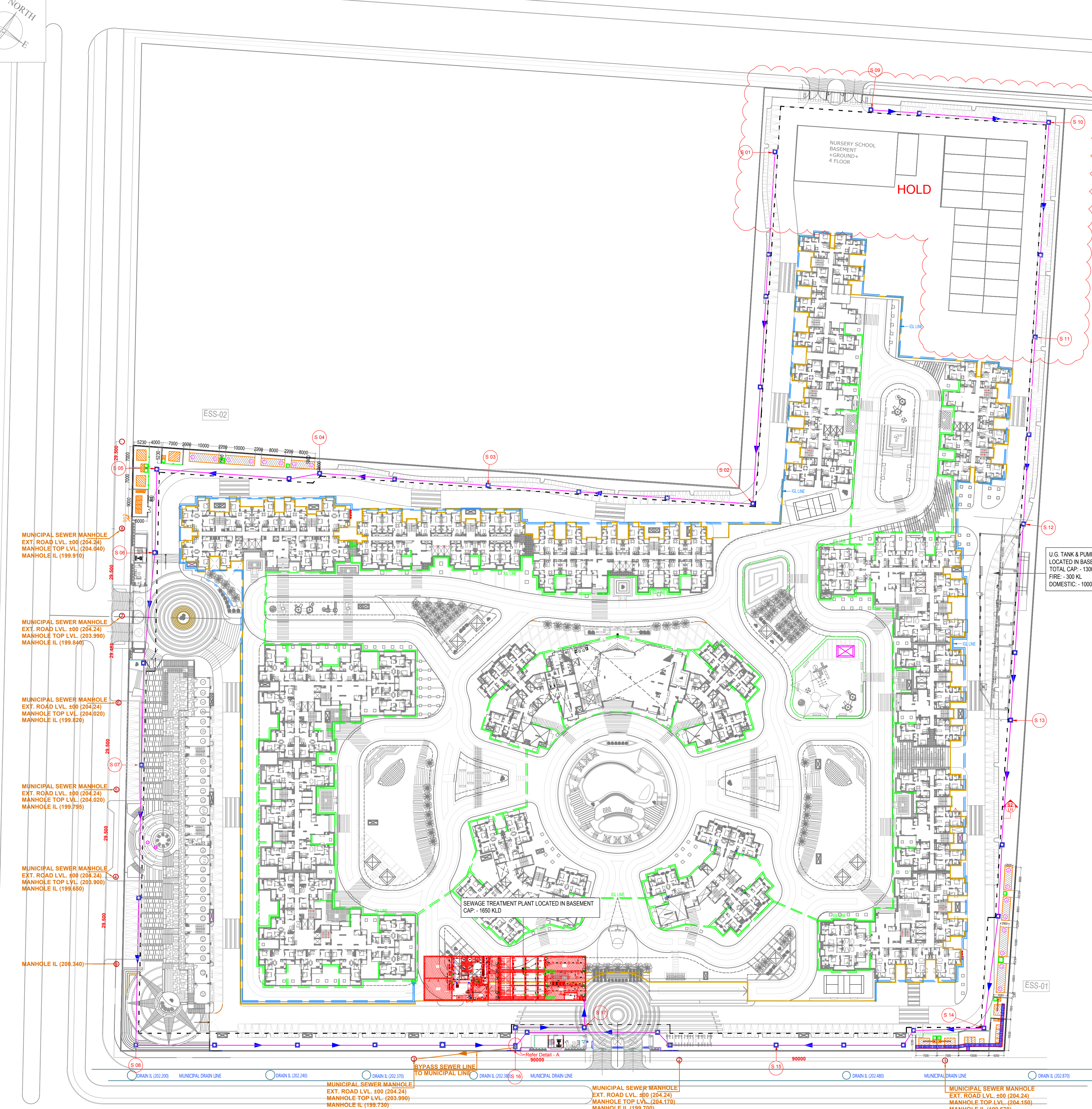
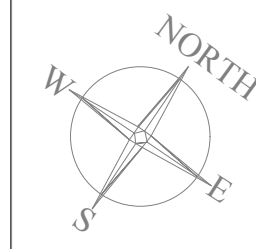




LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.		SEWER LINE
2.		BASEMENT RETAINING WALL
3.		PODIUM LINE
4.		INTERNAL ROAD LEVEL (205.14)

- NOTES : SEWERAGE SYSTEM**
- THE SIZE OF MANHOLE SHALL BE AS UNDER (INNER SIZES)
 - Upto 900 m.m. depth 600 x 600 m.m.
 - 900 to 1650 m.m. depth 900 m.m. dia.
 - 1650 to 2250 m.m. depth 1200 m.m. dia.
 - 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 :-
 - At the start of each sewer line
 - At every junction and position where there is change of size, gradient and alignment.
 - 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 / man holes 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 subsoil conditions manholes should be constructed in r.c.c. grade m-25.
 - The width of trench for sewer and drainage should be d+400mm. (d= o.d. 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.

IMPORTANT NOTE :
This drawing shall be read in-conjunction with appurtenance drawing no. AJ - LG - APT- DT- 01

rev. no.	date	revision
R5	18.05.2016	Drawing revised as per revised ESS - 01
R4	30.01.2016	Substation layout revised as per comments
R3	18.01.2016	Issued as GFC
R2	04.01.2016	Revised according new layout
R1	06.10.2015	Issued as advance copy for approval
R0	08.04.2015	Issued for approval

project
GROUP HOUSING FOR "LE GARDEN" AT NOIDA EXTENSION

title
SITE PLAN

subtitle
EXTERNAL SEWERAGE SYSTEM

drawing released for
☐ APPROVAL ☐ SUBMISSION
☐ ADVANCE COPY ☒ CONSTRUCTION

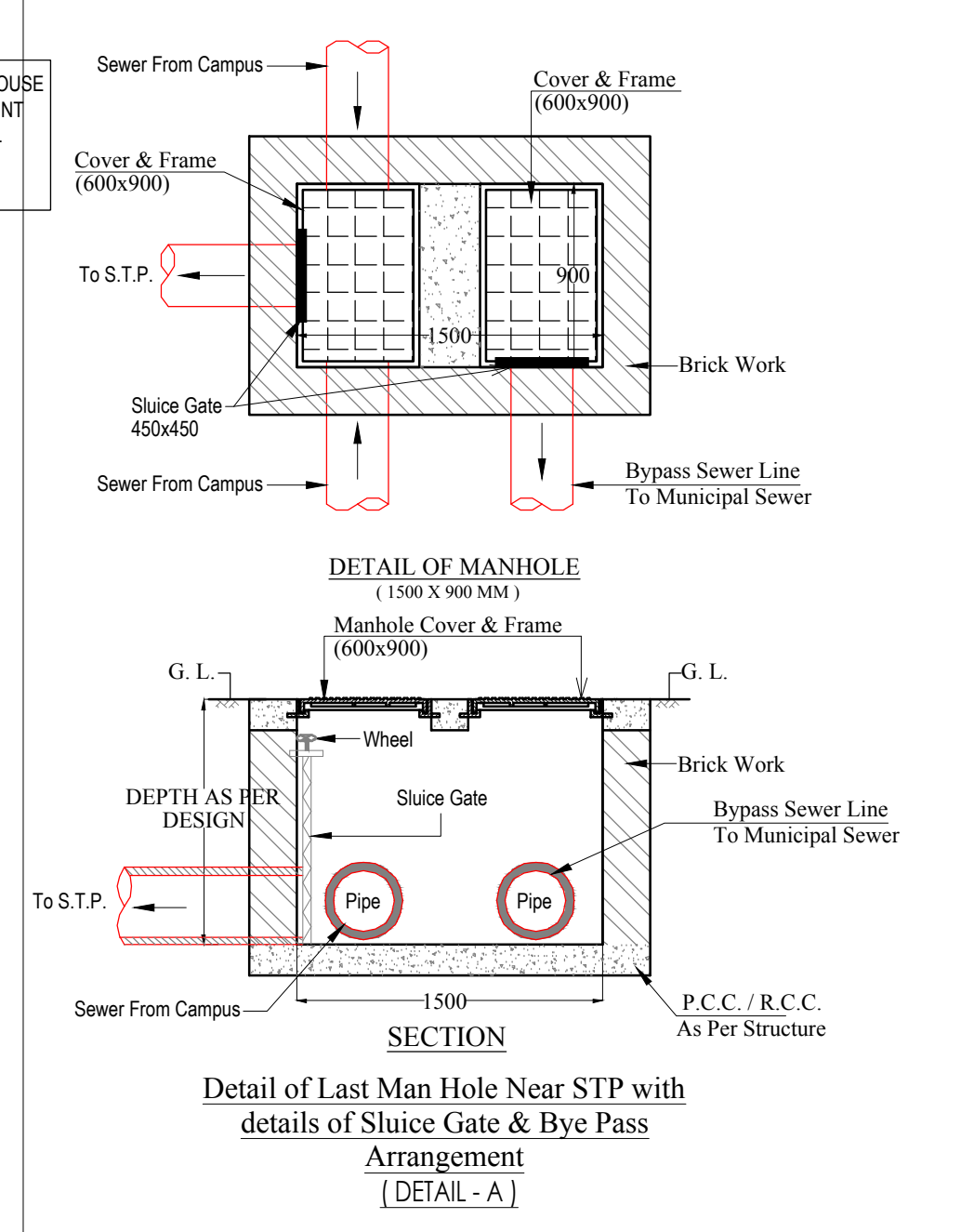
drg. no. AJ - LG - ES - 01 **drawn by** Ravi Chaudhary

scale 1 : 700 **designed by** Badri Vishal

date November 2014 **checked by** Anand Havelia

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DETAILS OF SEWER LINES											
Manhole No.	Length	Dia.	Slope	MI Top Level Upper End	Invert Level	Depth	MI Top Level Lower End	Invert Level	Depth		
From	To	mm	1 in	mm	mm	mm	mm	mm	mm		
S1	S2	120	250	200	0.78	-1.00	1.78	0.78	-1.80	2.38	
S2	S3	80	250	250	0.78	-1.60	2.38	0.78	-1.86	2.74	
S3	S4	60	300	350	0.78	-2.01	2.79	0.78	-2.18	2.96	
S4	S5	65	400	450	0.78	-2.28	3.06	0.78	-2.40	3.18	
S5	S6	30	400	450	0.78	-2.40	3.18	0.78	-2.47	3.25	
S6	S7	60	400	450	0.78	-2.47	3.25	0.78	-2.85	3.42	
S7	S8	90	400	450	0.78	-2.85	3.42	0.78	-2.95	3.62	
S8	S16	130	400	450	0.78	-2.95	3.62	0.78	-3.14	3.81	
S9	S10	60	250	200	0.78	-1.00	1.78	0.78	-1.30	2.08	
S10	S11	75	250	250	0.78	-1.30	2.08	0.78	-1.60	2.38	
S11	S12	60	250	250	0.78	-1.60	2.38	0.78	-1.84	2.62	
S12	S13	70	250	250	0.78	-1.84	2.62	0.78	-2.12	2.80	
S13	S14	105	300	350	0.78	-2.12	2.95	0.78	-2.47	3.25	
S14	S15	75	300	350	0.78	-2.47	3.25	0.78	-2.69	3.46	
S15	S16	80	400	450	0.78	-2.78	3.56	0.78	-2.98	3.76	
S16	S17	30	400	450	0.78	-3.14	3.91	0.78	-3.20	3.98	
S17	STP	10	400	450	0.78	-4.35	5.13	0.78	-4.37	5.15	
S16	OUT	35	400	450	0.78	-3.14	3.91	0.78	-3.21	3.89	