



DETAILS OF SEWER LINES										
Manhole No.	Length	Dia.	Slope	MH Top Level		Depth	MH Top Level		Depth	
				Upper End	Lower End		Upper End	Lower End		
S1	S2	26	200	160	100.70	99.45	1.25	100.70	99.29	1.41
S2	S3	128	200	200	100.70	99.29	1.41	100.65	98.65	2.00
S3	S4	60	200	200	100.65	98.65	2.00	100.60	98.35	2.25
S4	S9	53	200	200	100.60	98.35	2.25	100.55	98.08	2.47
S5	S6	54	200	160	100.35	99.15	1.20	100.40	98.81	1.59
S6	S9	58	200	200	100.40	98.81	1.59	100.65	98.52	2.03
S7	S8	66	200	160	100.63	99.43	1.20	100.60	99.01	1.59
S8	S9	60	200	200	100.60	99.01	1.59	100.55	98.71	1.84
S9	S11	40	200	200	100.55	98.08	2.47	100.65	97.88	2.77
S10	S11	14	200	160	100.65	99.05	1.60	100.65	98.96	1.69
S11	S13	50	200	250	100.65	97.88	2.77	100.70	97.68	3.02
S12	S13	98	200	160	100.65	99.65	1.20	100.70	99.04	1.66
S13	S16	98	200	250	100.70	97.68	3.02	100.85	97.29	3.56
S14	S15	73	200	160	100.65	99.45	1.20	100.78	98.99	1.78
S15	S16	58	200	160	100.78	98.99	1.78	100.85	98.63	2.22
S16	S17	55	200	300	100.85	97.29	3.56	100.90	97.11	3.79
S17	S18	42	200	300	100.90	97.11	3.79	100.95	96.97	3.98
S18	S19	50	200	300	100.95	96.97	3.98	100.95	96.80	4.15
S19	STP	2	200	370	100.95	96.80	4.15	100.95	96.79	4.16
S20	S23	43	200	160	100.70	99.50	1.20	100.70	99.23	1.47
S21	S22	66	200	160	100.95	99.15	1.20	100.53	98.74	1.79
S22	S23	50	200	200	100.53	98.74	1.79	100.70	98.49	2.21
S23	S26	43	200	200	100.70	98.49	2.21	100.75	98.27	2.48
S24	S25	66	200	160	100.40	99.20	1.20	100.65	98.79	1.86
S25	S26	50	200	200	100.65	98.79	1.86	100.75	98.54	2.21
S26	S30	33	200	200	100.75	98.27	2.48	100.80	98.11	2.69
S27	S28	31	200	160	100.85	99.65	1.20	100.80	99.46	1.34
S28	S29	30	200	160	100.80	99.45	1.35	100.80	99.26	1.54
S29	S30	52	200	200	100.80	99.26	1.54	100.80	99.00	1.80

LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.	M.H.	MANHOLE
2.	—	SEWER LINE
3.	—	BRANCH MANHOLE & 150 Ø SEWER LINE FOR SERVICE CONNECTION
4.		
5.		
6.		
7.		
8.		

- 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 SLIGHTLY 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 LEVEL 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 COLTON 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 SKIN.
 - 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 CO-ORDINATED WITH OTHER DRAWING I.E ARCHITECTURE, STRUCTURAL, ELECTRICAL, LANDSCAPE & OTHER RELEVANT DRAWING.
 - MATERIAL OF PIPE - RCC (RCP) PIPE WITH RUBBER JOINT / UPVC PIPE (SM-4) IS 1532/15 16308
 - THE WIDTH OF TRENCH FOR SEWER AND DRAINAGE SHOULD BE 400MM (Ø + 0.1 D) PIPE.
 - SLOPING / FINISHING 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.

Check & confirm sewerage route

Rev. No. 2 Date 30-09-16 Revision AT SITE

Project : ELDECO TOWNSHIP IN JAWAHARPURAM SCHEME OF KANPUR DEVELOPMENT AUTHORITY IN SECTOR-14, REVENUE VILLAGE BARASIROHI, TEHSIL & DISTRICT - KANPUR NAGAR,

Title : LAYOUT PLAN

Subtitle : EXTERNAL SEWERAGE SYSTEM

Drawing Released For :
 APPROVAL SUBMISSION
 ADVANCE COPY CONSTRUCTION

Drg. No. : JAWAHARPURA / ES-01

Scale : 1:700 Drawn By : Amit Kamboj

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