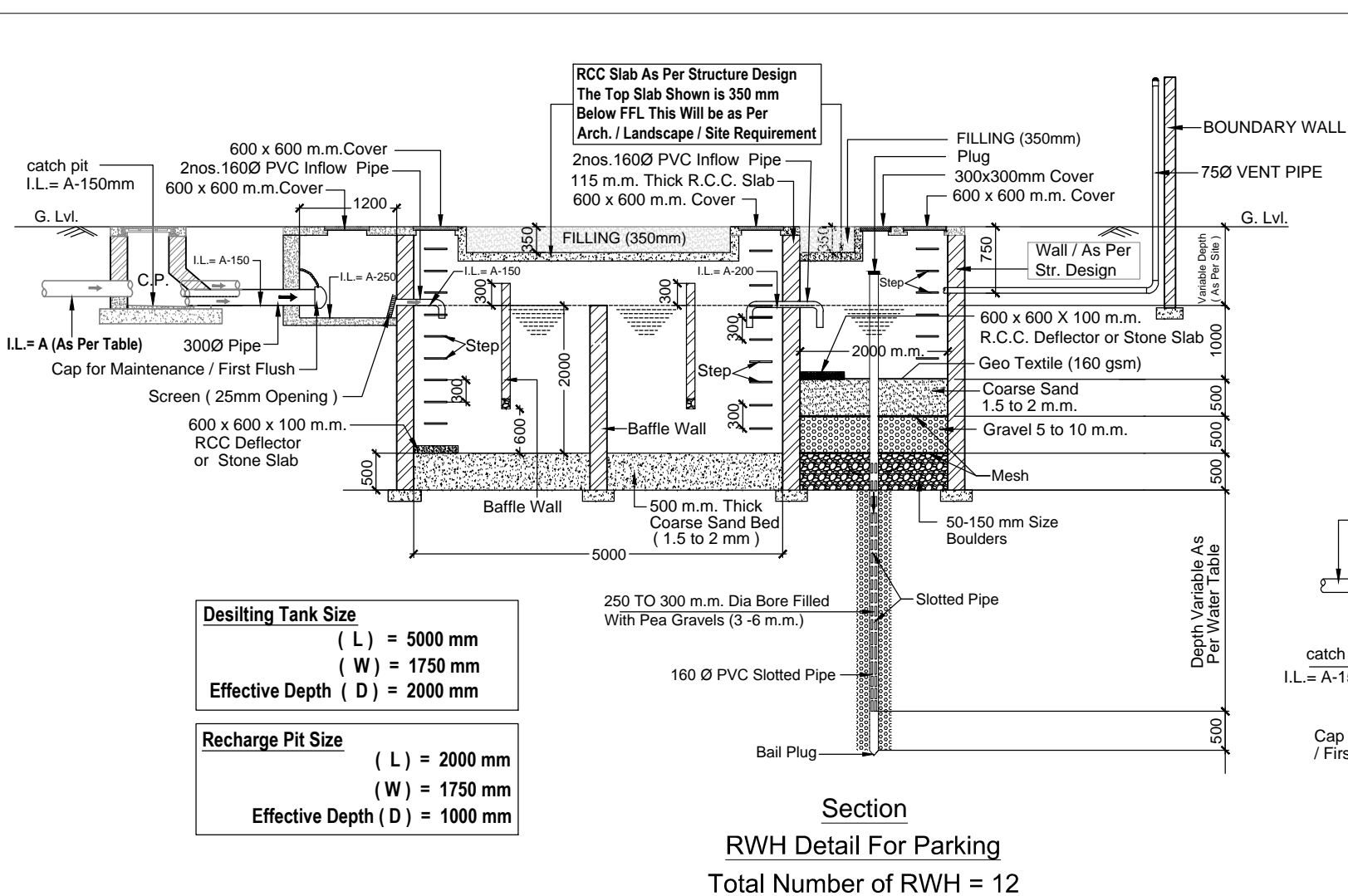


DETAILS OF DRAINS										
Drain Coordinate		Length of Drain	Width of Drain	Slope	Drain Top Level	Invert Level	Depth	Drain Top Level	Invert Level	Depth
					Upper End			Lower End		
From	To	(m)	(m)	1 in	(m)	(m)	(m)	(m)	(m)	(m)
D1	D2	48	0.300	500	99.30	98.95	0.35	99.25	98.85	0.40
D2	D3	34	0.300	500	99.25	98.85	0.40	99.23	98.79	0.44
D3	D4	40	0.300	500	99.23	98.79	0.44	99.15	98.71	0.44
D4	D4D	28	0.300	170	99.15	98.71	0.44	98.90	98.54	0.36
D4A	D4C	56	0.300	270	99.20	98.85	0.35	98.99	98.64	0.35
D4B	D4C	55	0.300	500	98.90	98.55	0.35	98.90	98.44	0.46
D4C	D4D	7	0.300	500	98.90	98.44	0.46	98.90	98.43	0.47
D4D	D6	36	0.300	500	98.90	98.43	0.47	98.80	98.35	0.45
D5	D6	24	0.300	500	98.80	98.45	0.35	98.80	98.40	0.40
D6	D7	35	0.300	500	98.80	98.35	0.45	98.70	98.28	0.42
D7	D8	43	0.300	325	98.70	98.28	0.42	98.50	98.15	0.35
D8	D9	50	0.300	500	98.50	98.15	0.35	98.45	98.05	0.40
D9	D10	34	0.300	500	98.45	98.05	0.40	98.40	97.98	0.42
D10	D11	42	0.300	600	98.40	97.98	0.42	98.40	97.91	0.49
D11	D15	25	0.300	600	98.40	97.91	0.49	98.40	97.87	0.53
D12	D14	38	0.300	500	98.40	98.05	0.35	98.40	97.97	0.43
D13	D14	30	0.300	500	98.40	98.05	0.35	98.40	97.99	0.41
D14	D15	8	0.300	500	98.40	97.97	0.43	98.40	97.96	0.44
D15	D18	5	0.300	600	98.40	97.87	0.53	98.40	97.86	0.54
D16	D17	37	0.300	500	98.40	98.05	0.35	98.40	97.98	0.42
D17	D18	35	0.300	500	98.40	97.98	0.42	98.40	97.91	0.49
D18	D30	44	0.300	600	98.40	97.86	0.54	98.30	97.79	0.51
D19	D20	42	0.300	200	98.80	98.45	0.35	98.60	98.24	0.36
D20	D22	36	0.300	325	98.60	98.24	0.36	98.50	98.13	0.37
D21	D22	20	0.300	400	98.50	98.20	0.30	98.50	98.15	0.35
D22	D23	42	0.300	500	98.50	98.13	0.37	98.40	98.05	0.35
D23	D24	67	0.300	600	98.40	98.05	0.35	98.40	97.93	0.47
D24	D29	15	0.300	600	98.40	97.93	0.47	98.40	97.91	0.49
D25	D26	46	0.300	500	98.80	98.45	0.35	98.80	98.36	0.44
D26	D27	43	0.300	500	98.80	98.36	0.44	98.75	98.27	0.48
D27	D28	78	0.300	350	98.75	98.27	0.48	98.40	98.05	0.35
D28	D29	28	0.300	500	98.40	98.05	0.35	98.40	97.99	0.41
D29	D30	28	0.300	600	98.40	97.91	0.49	98.30	97.86	0.44
D30	D44	26	0.400	600	98.30	97.79	0.51	98.30	97.75	0.55
D31	D33	34	0.300	500	99.20	98.85	0.35	99.30	98.78	0.52
D32	D33	7	0.300	500	99.30	98.95	0.35	99.30	98.94	0.36
D33	D35	40	0.300	175	99.30	98.78	0.52	98.90	98.55	0.35
D34	D35	35	0.300	500	98.90	98.55	0.35	98.90	98.48	0.42
D35	D37	10	0.300	500	98.90	98.48	0.42	98.90	98.46	0.44
D36	D37	53	0.300	130	99.30	98.95	0.35	98.90	98.54	0.36
D37	D39	36	0.300	500	98.90	98.46	0.44	98.80	98.39	0.41
D38	D39	20	0.300	500	98.80	98.45	0.35	98.80	98.41	0.39
D39	D41	72	0.300	450	98.80	98.39	0.41	98.60	98.23	0.37
D40	D41	22	0.300	500	98.60	98.30	0.30	98.60	98.26	0.34
D41	D42	26	0.300	500	98.60	98.23	0.37	98.60	98.18	0.42
D42	D43	45	0.300	350	98.60	98.18	0.42	98.40	98.05	0.35
D43	D44	18	0.300	175	98.40	98.05	0.35	98.30	97.94	0.36
D44	SUMP	5	0.400	500	98.30	97.75	0.55	98.30	97.74	0.56

NOTES : SURFACE DRAINAGE SYSTEM

- FOR ANY DISCREPANCY / OMISSION THE MATTER SHOULD REFER TO THE CONSULTANTS BEFORE EXECUTION.
- SLAB CULVERT SHALL BE PROVIDED AT ROAD CROSSING FOR SURFACE DRAINS.
- TOP LEVEL OF THE DRAIN SHALL FLUSH WITH THE PROPOSED GROUND LEVEL OF THE RESPECTIVE AREA.
- THE DRAIN BEDDING SHALL HAVE TO BE STRUCTURALLY DESIGNED FOR LOCAL SITE CONDITIONS SUCH AS FILLED UP SOIL / BLACK COTTON SOIL / HIGH SUB SOIL CONDITIONS.
- THIS DRAWING SHALL BE COORDINATED WITH OTHER DRAWING I.E. ARCHITECTURE, STRUCTURAL, ELECTRICAL, LANDSCAPE & OTHER RELEVANT DRAWING.
- 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.



Desilting Tank Size
(L) = 5000 mm
(W) = 1750 mm
Effective Depth (D) = 2000 mm

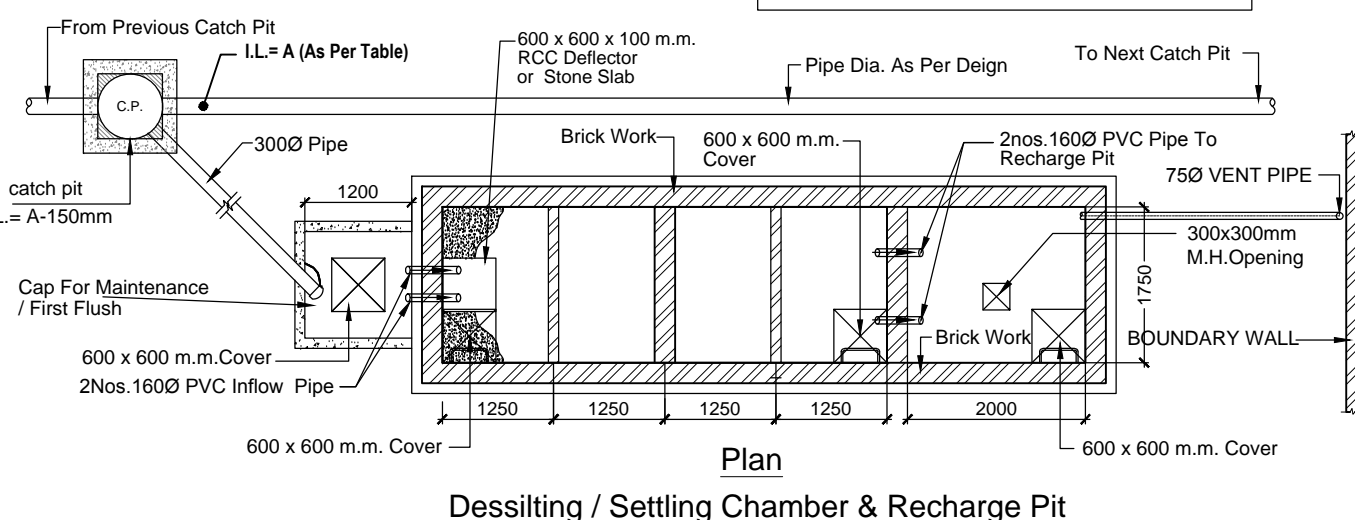
Recharge Pit Size
(L) = 2000 mm
(W) = 1750 mm
Effective Depth (D) = 1000 mm

Section
RW Detail For Parking
Total Number of RW = 12

Note:
1) All Wall of RW Shall Be Strictly As Per Structure Consultants Design & Detail.
2) The Bore Well Pipe of Recharge Pit Should Be Left At Least 5 m Above The Known Highest Water Table To Avoid Any Possible Pollution To The Aquifer.

M.S. Screen Detail :
50mm Opening
32x3mm M.S. Bar
(Epoxy Coated)

RW 01 -- VARIABLE DEPTH = 440 MM
RW 02 -- VARIABLE DEPTH = 420 MM
RW 03 -- VARIABLE DEPTH = 400 MM
RW 04 -- VARIABLE DEPTH = 490 MM
RW 05 -- VARIABLE DEPTH = 350 MM
RW 06 -- VARIABLE DEPTH = 470 MM
RW 07 -- VARIABLE DEPTH = 480 MM
RW 08 -- VARIABLE DEPTH = 350 MM
RW 09 -- VARIABLE DEPTH = 510 MM
RW 10 -- VARIABLE DEPTH = 440 MM
RW 11 -- VARIABLE DEPTH = 420 MM
RW 12 -- VARIABLE DEPTH = 350 MM



Plan
Desilting / Settling Chamber & Recharge Pit

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		SURFACE DRAIN
2.		DESILTING TANK SIZE = 5.0 X 1.75 X 2.0 m. RECHARGE PIT SIZE = 2.0 x 1.75 x 1.0 m.
3.		
4.		
5.		

Rev	Date	Description
R0	29-10-2016	ISSUED AS G.F.C.

OWNERS NAME

Ashiana Housing Ltd.
Unit no.4 & 5, Plot No.D-2, 3rd Floor,
Southern park, Saket District Centre,
Saket New Delhi - 110017
Phone no. 011-42 65 42 65

PROJECT :

ASHIANA HOUSING 'DWARKA'
AT JODHPUR

ARCHITECT

ETHIQUE

ARCHITECT SANJEEV MEHTA

D 507/508, KAILASH ESPLANADE, MAULI SHREE APARTMENT
L.B.S. MARG, OPP. SHREYAS CINEMA, PLOT NO 42-E 'PAULE BAUG'
GHATKOPAR (WEST), BY LOKMANYA NAGAR,
MUMBAI - 400086. SADASHIVE PETH, PUNE - 20
TEL. NO. : 25004553/25005978 TEL.-(020) 2433 3803
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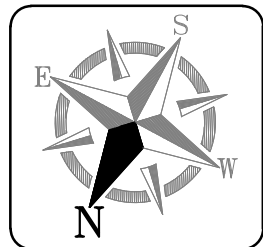
SERVICE CONSULTANT:

Consummate Engineering Services (P) Ltd.
Noida Office : B - 67, Sector - 67, Noida - 201 301
Tel : (0120) 6943500 (24 Lines)
Lko Office : R 006, Roshni Purnima, Gomti Nagar, Lucknow
e mail : mail@cespl.in, website : www.cespl.in

BUILDING TYPE	LAYOUT PLAN	SHEET. NO. : DWK-00 / ES - 02
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EXTERNAL DRAINAGE SYSTEM

SCALE: 1 : 550		KEY IN:	
DATE.: August 2016		PLOTTED ON:	
Drawn by	Design By :	Ckd By	
Amit kamboj	Nitesh Kumar	Anand Havelia	
ISSUED FOR:	G.F.C.		



ALL FIRE / DOMESTIC TANK FILLING RISER = 400
ALL FLUSHING TANK FILLING RISER = 320

LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.	M.H.	MANHOLE
2.	SEWER LINE	SEWER LINE
3.	SURFACE DRAIN	SURFACE DRAIN
4.	DOMESTIC WATER SUPPLY LINE	DOMESTIC WATER SUPPLY LINE
5.	MUNICIPAL WATER SUPPLY PIPE LINE	MUNICIPAL WATER SUPPLY PIPE LINE
6.	RECYCLED WATER SUPPLY LINE FOR FLUSHING & HORTICULTURE	RECYCLED WATER SUPPLY LINE FOR FLUSHING & HORTICULTURE
7.	GARDEN HYDRANT	GARDEN HYDRANT
8.	RECHARGE PIT SIZE = 2.0 x 1.75 x 1.0 m. DESILTING TANK SIZE = 5.0 x 1.75 x 2.0 m.	
9.		
10.		
11.		

NOTES : WATER SUPPLY	
1. THE DEPTH OF DOMESTIC WATER SUPPLY MAIN SHALL BE	-1000 MM
2. THE DEPTH OF RECYCLED WATER SUPPLY MAIN SHALL BE	-900 MM
3. THE DEPTH OF RISING MAIN SHALL BE	-1000 MM
4. PIPE MATERIAL FOR EXTERNAL WATER SUPPLY - DOMESTIC / RECYCLED / TUBE WELL RISING MAIN / MUNICIPAL LINE SHALL BE HDPE (PE100) PNB OR PE80 / PNB	
5. PIPE MATERIAL FOR ALL TOWER RISER - UPVC (IS-83)	

GROUND FLOOR PLAN
MANHOLE SIZE = 600x600
PIPE DIA = 1500
SLOPE 1 IN 100

Rev	Date	Description
R0	29-10-2016	ISSUED AS GFC

OWNERS NAME
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Saket New Delhi - 110017
Phone no. 011-42 65 42 65

PROJECT :
**ASHIANA HOUSING 'DWARKA'
AT JODHPUR**

ARCHITECT
ETHIQUE
ARCHITECT SANJEEV MEHTA
D 507/508, KAILASH ESPLANADE, MAULI SHREE APARTMENT
LB S MARG, OPP SHREYAS CINEMA, PLOT NO 43-E 'PAULE BAUG'
GHATKOPAR (WEST), BY LOKMANYA NAGAR,
MUMBAI - 400086. SADASHIVE PETH, PUNE - 20
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e mail : mail@cespl.in, website : www.cespl.in

BUILDING TYPE
LAYOUT PLAN

DRG. TITLE:
**SERVICES
CO-ORDINATION PLAN**

SCALE: 1 : 550
DATE: August 2016
KEY IN:
PLOTTED ON:

Drawn by
Amit kamboj
Design By
Nitesh Kumar
Ckd By
Anand Havelia

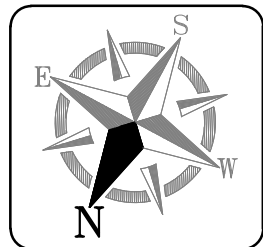
ISSUED FOR:
APPROVAL

NOTES : SURFACE DRAINAGE SYSTEM

- FOR ANY DISCREPANCY / OMISSION THE MATTER SHOULD REFER TO THE CONSULTANTS BEFORE EXECUTION.
- SLAB CULVERT SHALL BE PROVIDED AT ROAD CROSSING FOR SURFACE DRAINS.
- TOP LEVEL OF THE DRAIN SHALL FLUSH WITH THE PROPOSED GROUND LEVEL OF THE RESPECTIVE AREA.
- THE DRAIN BEDDING SHALL HAVE TO BE STRUCTURALLY DESIGNED FOR LOCAL SITE CONDITIONS SUCH AS FILLED UP SOIL / BLACK COTTON SOIL / HIGH SUB SOIL CONDITIONS.
- THIS DRAWING SHALL BE COORDINATED WITH OTHER DRAWING I.E. ARCHITECTURE, STRUCTURAL, ELECTRICAL, LANDSCAPE & OTHER RELEVANT DRAWING.
- 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.

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 GROUND FLOOR PLAN OF RESPECTIVE BUILDING FOR EXACT LOCATION OF APPURTENANCES / MAN HOLES ETC.
- SEWER LINE UNDER THE ROAD SHALL BE ENCASED WITH 150 TH. PCC 1:2:4 ALLROUND.
- MANHOLE COVER SHOULD BE FINISHED WITH FINISHED FORMATION LEVEL AS PER 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
- 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. GARDE 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 OR 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.



LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.	M.H.	MANHOLE
2.	S.L.	SEWER LINE
3.	F.L.	FORMATION LEVEL
4.	I.L.	INVERT LEVEL
5.	C.L.	CONNECTION LEVEL
6.		
7.		
8.		

GROUND FLOOR PLAN
MANHOLE SIZE = 600x600
PIPE DIA = 150Ø
SLOPE 1 IN 100

Rev	Date	Description
R0	29-10-2016	ISSUED AS G.F.C.

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BUILDING TYPE LAYOUT PLAN SHEET. NO.: DWK-00 / ES - 01

DRG. TITLE: EXTERANL SEWERAGE SYSTEM

SCALE: 1 : 550 KEY IN: DATE: August 2016 PLOTTED ON:

Drawn by Design By: Ckd By: Amit kamboj Nitesh Kumar Anand Havelia

ISSUED FOR: G.F.C.

DETAILS OF SEWER LINES

Manhole No.	Length	Dia.	Slope	MH Top Level			MH Top Level			Depth
				Upper End	Invert Level	Depth	Upper End	Invert Level	Depth	
From	To	(m)	(mm)	1 in	(m)	(m)	(m)	(m)	(m)	(m)
S1	S2	74	200	160	99.30	98.10	1.20	99.20	97.64	1.56
S2	S4	46	200	160	99.20	97.64	1.56	98.90	97.35	1.55
S3A	S3	56	200	200	98.90	97.70	1.20	98.90	97.42	1.48
S3	S4	45	200	200	98.90	97.42	1.48	98.90	97.20	1.71
S4	S5	42	200	250	98.90	97.20	1.71	98.80	97.03	1.77
S5	S6	52	200	250	98.80	97.03	1.77	98.60	96.82	1.78
S6	S7	35	200	250	98.60	96.82	1.78	98.50	96.68	1.82
S7A	S7B	38	200	160	98.50	97.30	1.20	98.50	97.06	1.44
S7B	S7	37	200	160	98.50	97.06	1.44	98.50	96.83	1.67
S7	S8	50	200	250	98.50	96.68	1.82	98.40	96.48	1.92
S8	S16	20	200	250	98.40	96.48	1.92	98.40	96.40	2.00
S9	S10	50	200	160	98.80	97.60	1.20	98.65	97.29	1.36
S10	S11	55	200	200	98.65	97.29	1.36	98.50	97.01	1.49
S11	S12	42	200	200	98.50	97.01	1.49	98.30	96.80	1.50
S12	S13	48	200	200	98.30	96.80	1.50	98.30	96.56	1.74
S13	S14	44	200	250	98.30	96.56	1.74	98.40	96.39	2.01
S14	S15	42	200	250	98.40	96.39	2.01	98.40	96.22	2.18
S15	S16	28	200	250	98.40	96.22	2.18	98.40	96.11	2.29
S16	S17	18	250	250	98.40	96.11	2.29	98.40	96.03	2.37
S17	STP	5	250	250	98.40	96.03	2.37	98.40	96.01	2.39