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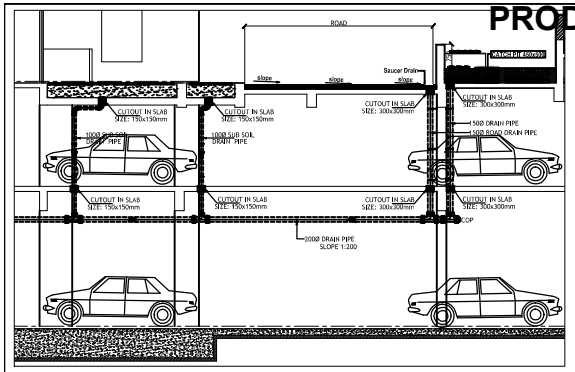
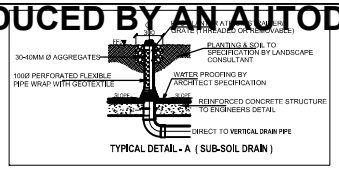


TYPICAL SECTION FOR SUB-SOIL & PODIUM DRAINAGE SYSTEM



TYPICAL DETAIL - A (SUB-SOIL DRAIN)

NOTES : SURFACE DRAINAGE SYSTEM

1. For any descripancy / commission the matter should refer to the consultants before execution.
2. Slab culvert shall be provided at road crossing for surface drains.
3. Top level of the drain shall flush with the proposed ground level of the respective area / as per landscape plan.
4. 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.
5. This drawing shall be coordinated with other drawing i.e. architecture, structural, electrical, landscape & other relevant drawing.
6. 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 : SOIL DRAIN SYSTEM

1. THE SIZE OF CATCH PIT 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 changes.
3. For any descripancy / commission 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. 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.
6. This drawing shall be read along with the detailed landscape plan & ground floor plan of respective building for exact location of appurtenances / catchpits etc.
7. Drainage line under the road shall be encased with 150 thick, pcc 1:2:4 allround.
8. Catchpit cover should be finished with finished formation level as per landscape drawing, the cover of catch pit shall be square as per appurtenances drawing & should be co-ordinated with landscape drawing.
9. This drawing shall be coordinated with other drawing i.e. architecture, structural, electrical, landscape & other relevant drawing.
10. Material of pipe :- RCC (NP 3) Pipe with rubber ring joint.
11. **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.**
12. **In case where drain are laid in high subsoil conditions catchpits should be constructed in r.c.c. garde m-25.**
13. The width of trench for sewer and drainage should be d+ 400mm, (d= o.d. of pipe).
14. 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.
15. 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

1. THE SIZE OF MANHOLE SHALL BE AS UNDER (INNER SIZES)
   a) 900 to 1650 m.m. depth — 900 m.m. dia.
   b) 1650 to 2250 m.m. depth — 1200 m.m. dia.
   c) Above 2250 m.m. depth — 1500 m.m. dia.
2. 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.
3. For any descripancy / commission the matter should refer to the consultants before execution.
4. 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.
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 manhole chamber.
6. 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.
7. 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.
8. Sewer line under the road shall be encased with 150 thick, pcc 1:2:4 allround.
9. 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.
10. This drawing shall be coordinated with other drawing i.e. architecture, structural, electrical, landscape & other relevant drawing.
11. Material of pipe :- RCC (NP 3) Pipe with rubber ring joint / uPVC PIPE (SN4) IS : 15328 / 1516098
12. **In the areas subject to subsidence or filled up soil (due to exces 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.**
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.

LEGEND :

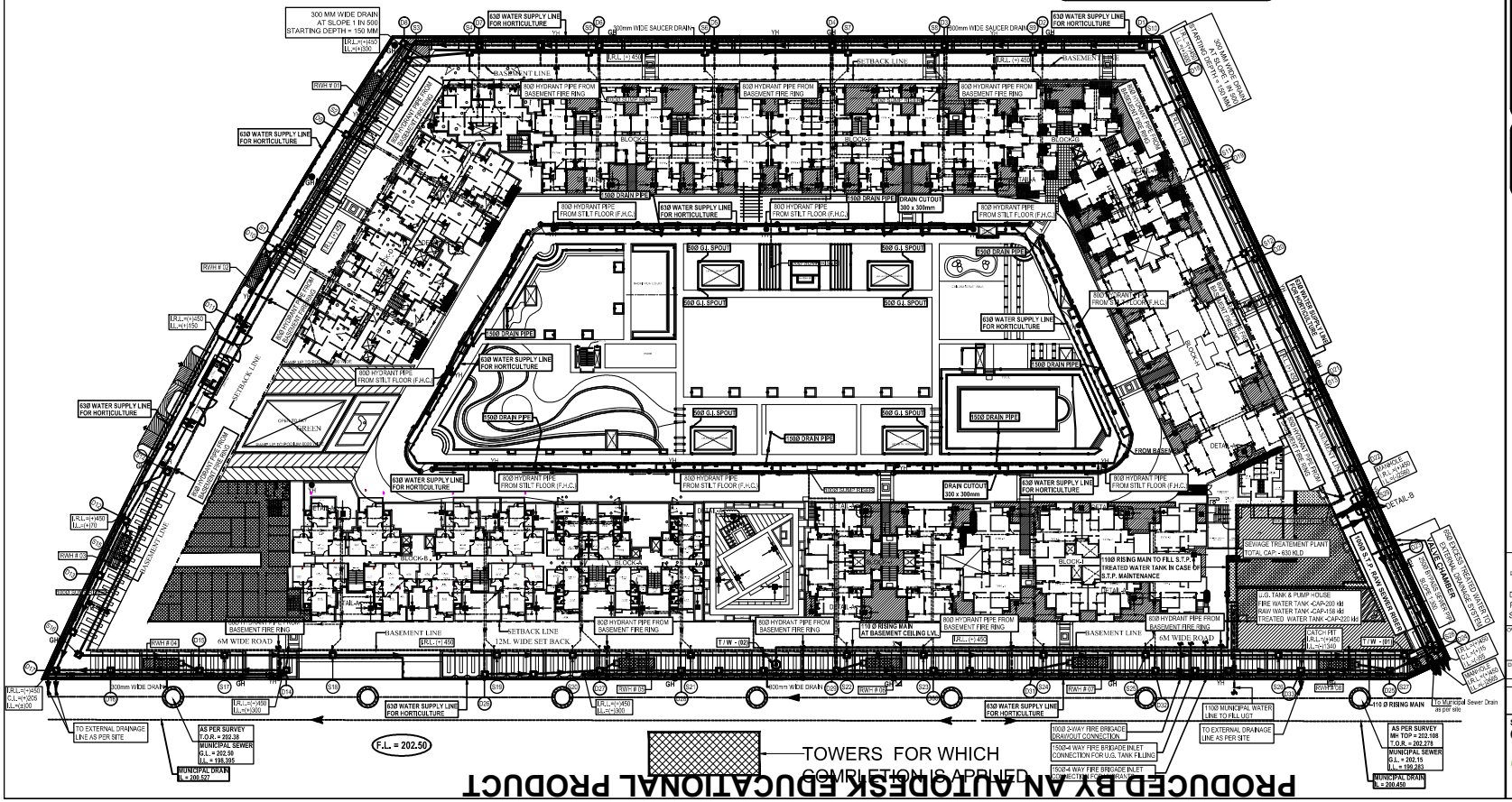
S. No.	SYMBOL	DESCRIPTION
1.	M.H	MANHOLE
2.		SEWER LINE
3.	C.P	CATCH PIT
4.		UNDER GROUND PIPE DRAIN
5.		RISING MAIN LINE (FROM T/W TO U.G.T.)
6.		**MUNICIPAL WATER SUPPLY PIPE LINE.**
7.		**RECYCLED WATER SUPPLY LINE FOR HORTICULTURE**
8.		PROPOSED TUBE WELL
9.	GH	GARDEN HYDRANT
10.		BASEMENT RETAINING WALL
11.		RAIN WATER HARVESTING
12.		MASONRY CHAMBER FOR ISOLATING VALVE
13.	I.R.L.=450	INTERNAL ROAD LEVEL
14.		500 G.I. SPOUT
15.		300mm WIDE DRAIN
16.		30mm WIDE SAUCER DRAIN

LEGEND : FIRE SYSTEM

S. No.	SYMBOL	DESCRIPTION
1.		FIRE LINE
2.	YH	YARD HYDRANT 63 M.M. DIA. SINGLE HEADED HYDRANT VALVE WITH 2 NOS. 15 M. LONG, 63 M.M. DIA. FIRE HOSE PIPE & 1 NO. BRANCH PIPE WITH NOZZLE
3.		FIRE BRIGADE CONNECTION
4.		BUTTERFLY VALVE
5.		NONRETURN VALVE (CHECK VALVE)
6.		ISOLATING VALVE WITH MASONARY CHAMBER
7.		

NOTES : WATER SUPPLY

1. The depth of recycle water supply main shall be - 900 mm
2. The depth of rising main shall be - 1000 mm
3. Pipe material for external water supply - recycle / municipal line Shall be : HDPE (PE100) PN8
4. Pipe material for rising main from tubewell to STP / WTP (suspend from basement ceiling) Shall be : UPVC SCH 80


300 MM WIDE DRAIN AT SLOPE 1 IN 500 STARTING DEPTH = 150 MM
630 WATER SUPPLY LINE FOR HORTICULTURE
30mm WIDE SAUCER DRAIN
BASEMENT LINE
SETBACK LINE
800 HYDRANT PIPE FROM BASEMENT FIRE RING
800 HYDRANT PIPE FROM STILT FLOOR (F.H.C.)
500 DRAIN PIPE
DRAIN CUTOUT 300 x 300mm
500 G.I. SPOUT
1000 DRAIN PIPE
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