

KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, PUBLIC HEALTH, ELECTRICAL AND STRUCTURAL DRAWINGS.
3. PIPES SHALL BE HEAVY DUTY GI PIPE CLASS "B" CONFORMING TO IS 1239.
4. UNDERGROUND PIPE SHALL BE COATED AND WRAPPED AS PER IS : 10221 WITH "PYPKOTE" WRAPPING COATING MATERIAL OF 4mm THICK.
5. SLUICE VALVE SHALL BE CONFORMING TO IS : 780.
6. THE DEPTH OF UNDERGROUND PIPE SHALL BE DECIDED AT SITE AS PER THE SITE CONDITION TO AVOID FOULING WITH OTHER SERVICES SUBJECT TO THE TOP OF THE U/G PIPE IS MINIMUM 1M BELOW FROM THE FGL.
7. MINOR CHANGES IN THE PIPE ROUTING SHALL BE MADE TO SUIT SITE LOCATIONS WITHOUT EFFECTING DESIGN ASPECTS.
8. MINOR CHANGES IN THE HYDRANT LOCATION SHALL BE MADE TO SUIT MACHINE/EQUIPMENT REQUIREMENT WITHOUT EFFECTING DESIGN ASPECTS.
9. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVES AT TENDER STAGE BEFORE COMMENCEMENT OF ANY WORK. NO FURTHER CLAIMS SHALL BE ENTERTAINED THEREAFTER.

LEGENDS:-

SR. NO.	SYMBOL	DESCRIPTION
1.		150ø GI CLASS "B" HYDRANT PIPE
2.		SINGLE HEADED
3.		SINGLE HEADED YARD HYDRANT
4.		FIRE HOSE BOX WITH SET OF HOSE
5.		BRANCH PIPE & NOZZLE
6.		RUBBER FIRE HOSE (ø63mm, 2Nos., 15m LENGTH)
7.		HOSE REEL, ø20MM, 30M LONG
8.		GATE/SLUICE VALVE WITH CHAMBER
9.		CO2 4.5 Kg (CARBON DIOXIDE TYPE EXTINGUISHER)
10.		AFFF 9.0 LTS. (AQUEOUS FILM FORMING FOAM TYPE EXTINGUISHER)
11.		PENDENT SPRINKLER

SIGN.	MR	MA	MAM	CV	EL	IC	ME	PE/PM	APPD	DATE
INITIALS										13-05-2020
REVISIONS										
ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE

FOR TENDER PURPOSE ONLY
DO NOT SCALE

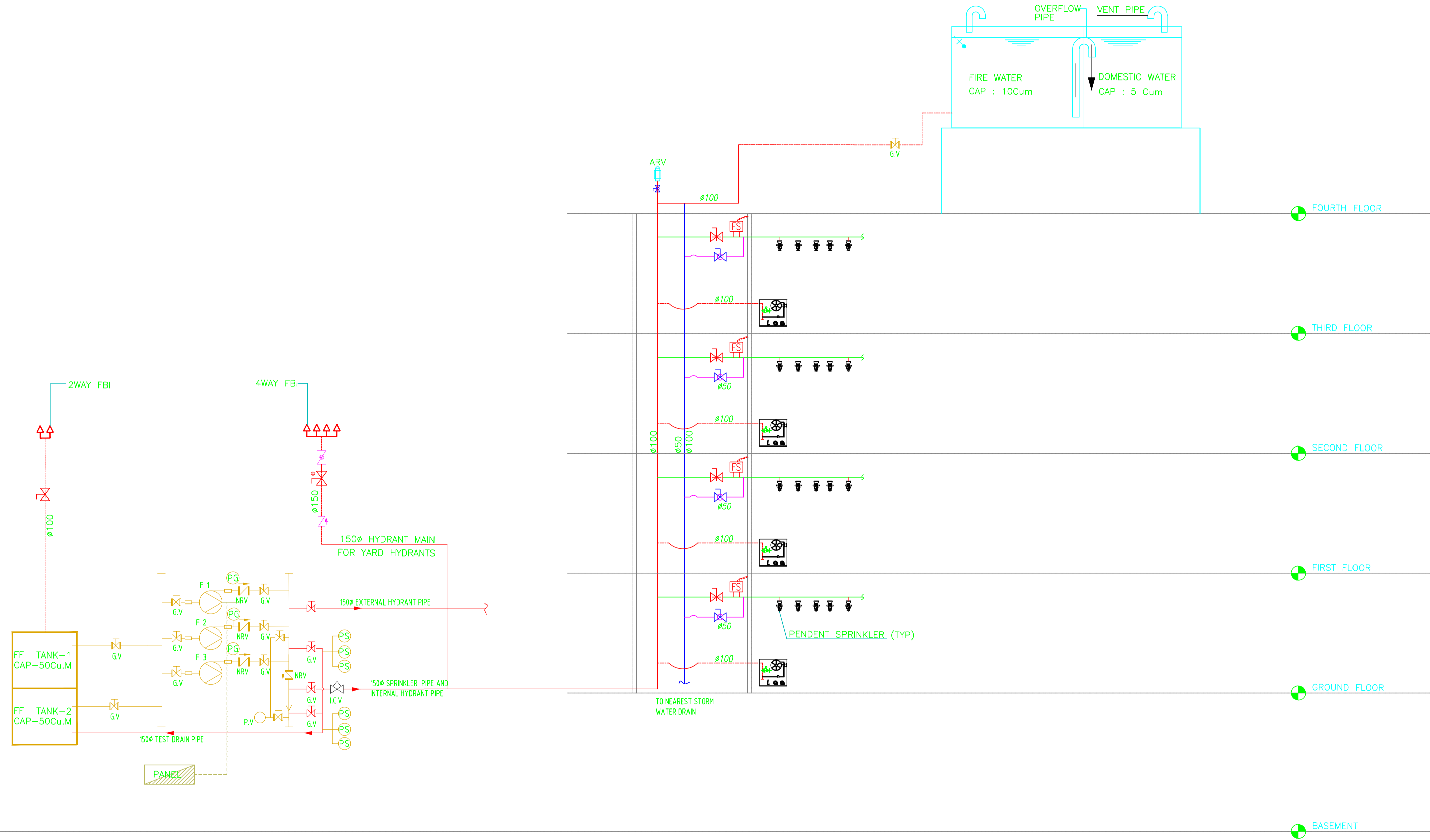
P (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK.
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FILE NAME : 10477A-ME-6041-FF-60105P0.dwg

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI
FOURTH FLOOR FPS LAYOUT

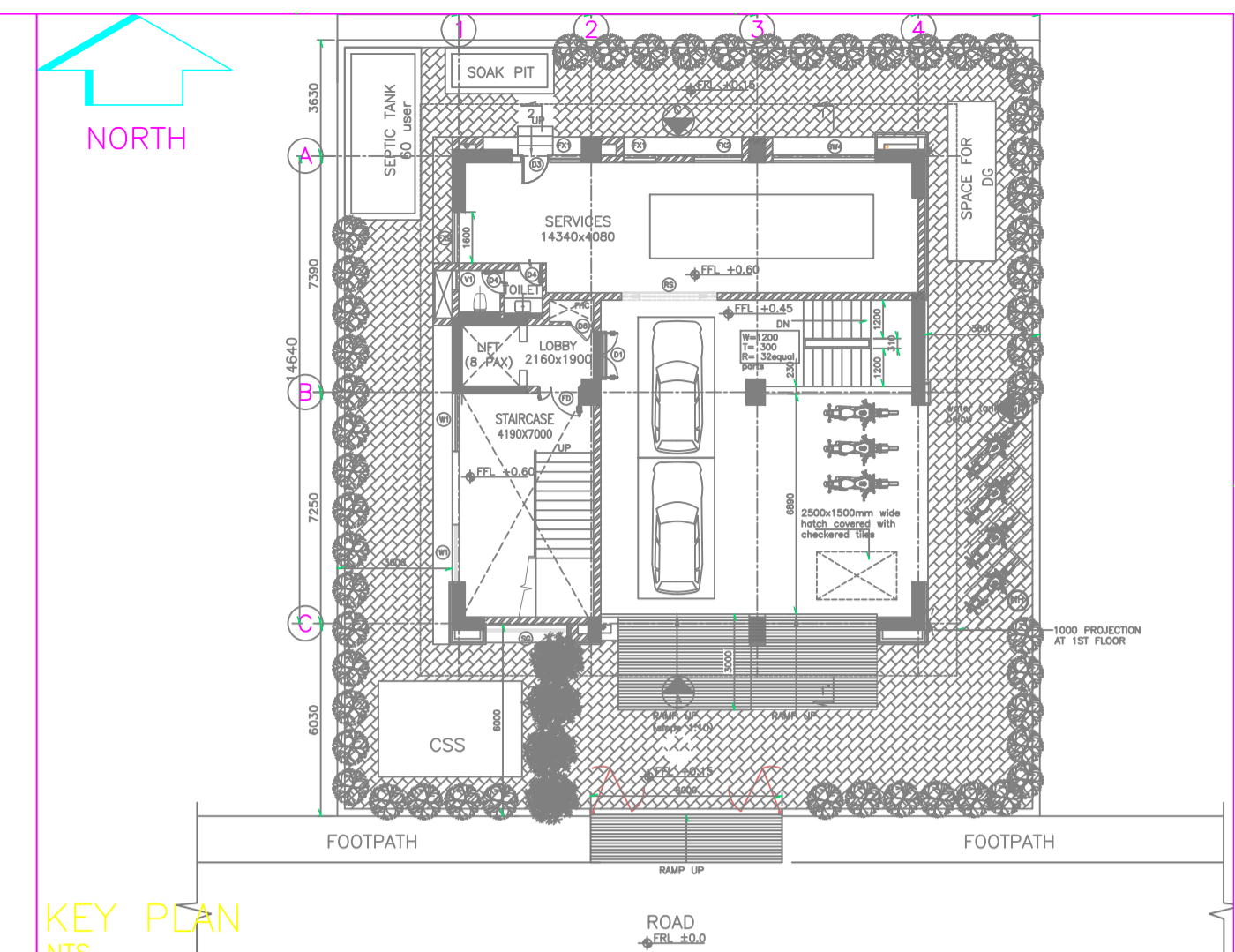
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : 1:50
DC & DISC: PN-ME
TCE.10477A-ME-6041-FF-60105
ISSUE PO



FIRE HYDRANT AND SPRINKLER SCHEMATIC DIAGRAM

FIRE PUMP DETAILS			
	DESCRIPTION	DISCHARGE (LPM)	HEAD (M)
F1	ELECTRICAL MOTOR DRIVEN MAIN FIRE PUMP	2280	70
F2	DIESEL ENGINE DRIVEN STANDBY FIRE PUMP	2280	120
F3	JOCKEY PUMP	180	120



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LEGENDS:-

SR. NO.	SYMBOL	DESCRIPTION
1.		150mm GI CLASS "B" HYDRANT PIPE
2.		FIRE HOSE BOX WITH SET OF HOSE
3.		BRANCH PIPE & NOZZLE
4.		RUBBER FIRE HOSE (63mm, 2Nos, 15m LENGTH)
5.		HOSE REEL, 20MM, 30M LONG
6.		NON RETURN VALVE
7.		FIRE PUMPS
8.		Y-STRAINER
9.		PENDENT SPRINKLER
10.		PRESSURE GAUGE
11.		PRESSURE SWITCH

SIGN.	INITIALS	REVISIONS																		
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ISSUE																				

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DC & DISC: PN-ME
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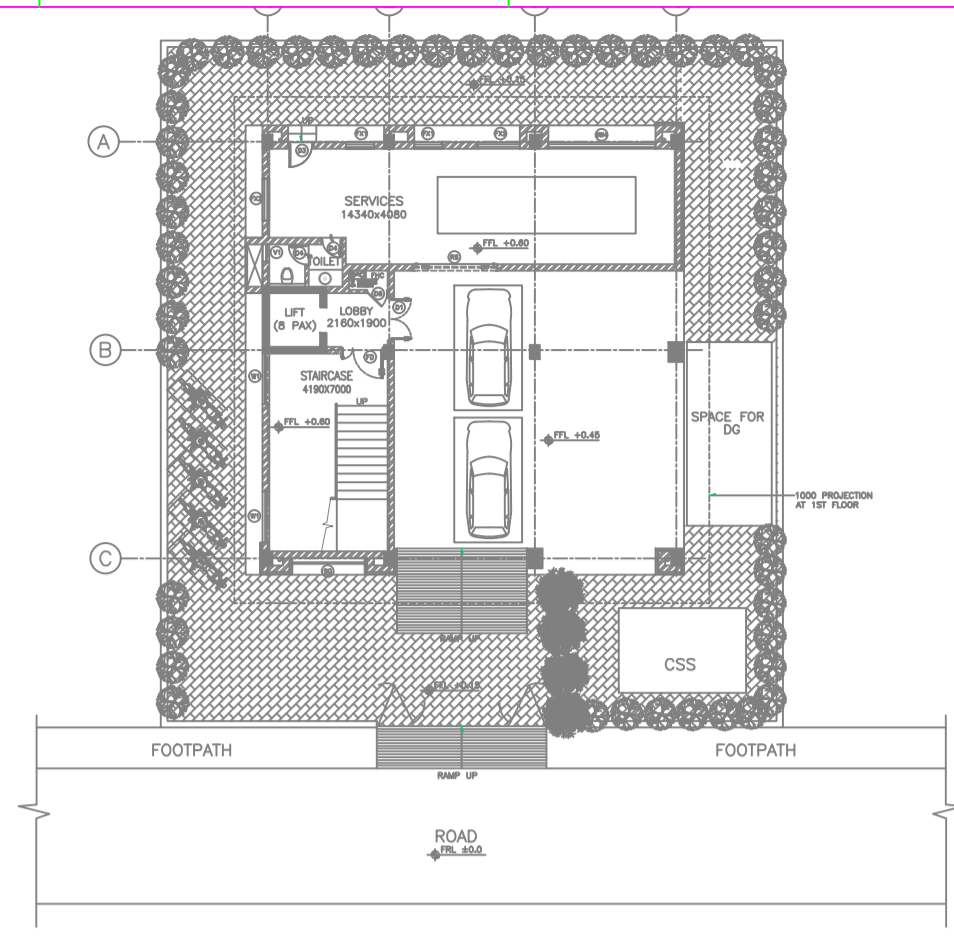
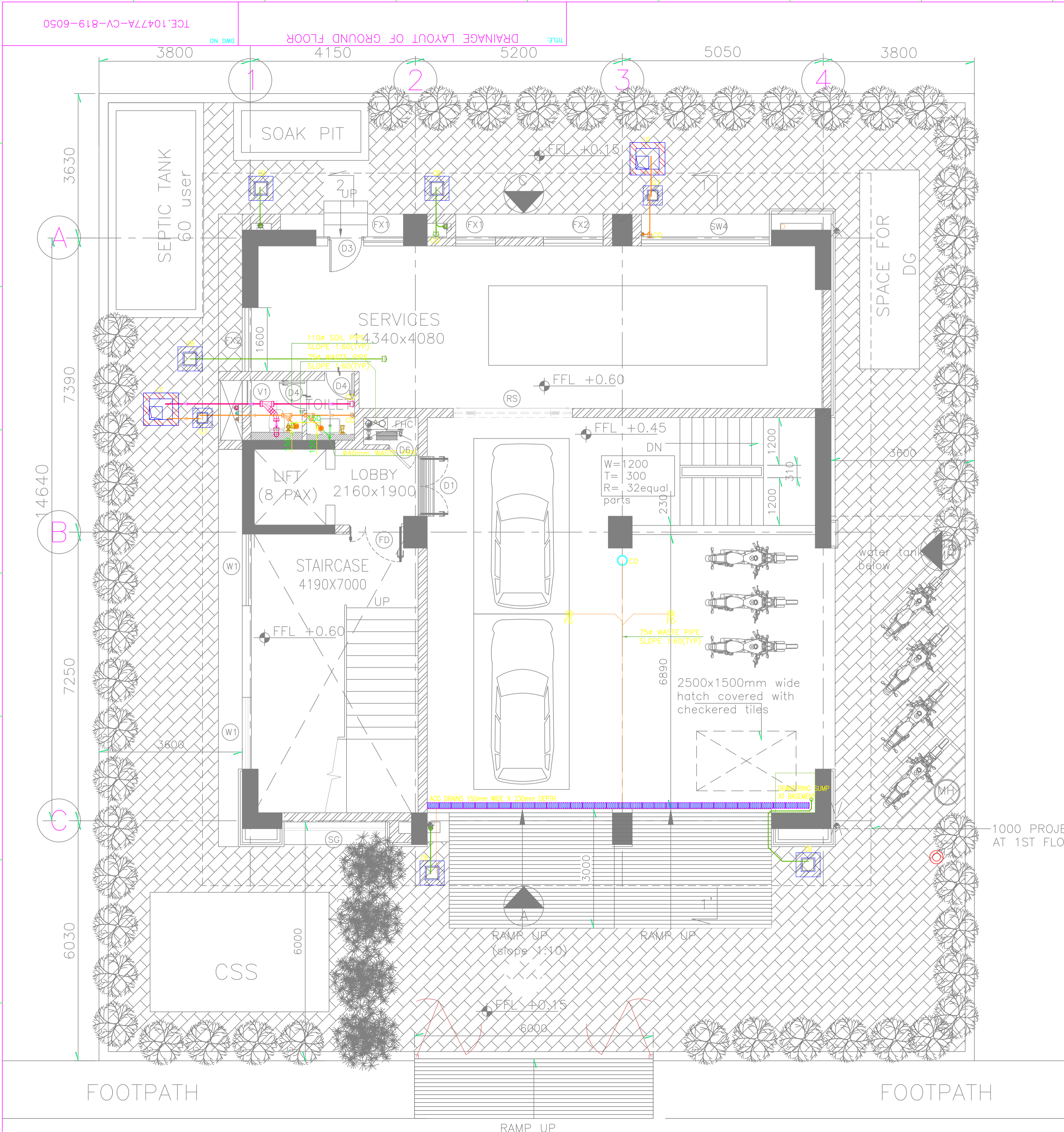
GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI
HYDRANT AND SPRINKLER SCHEMATIC

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : 1:100
DC & DISC: PN-ME
FILE NAME : 10477A-ME-6041-FF-60106P0.dwg

TCE.10477A-ME-6041-FF-60106
ISSUE PO

PLUMBING DRAWINGS



KEY PLAN
(SCALE - NTS)
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1. ALL THE DIMENSION ARE IN MM UNLESS OTHERWISE SPECIFIED.
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3. ALL MATERIALS USED SHALL BE AS SPECIFIED IN THE SPECIFICATIONS AND INDICATED IN THE DRAWINGS.
4. WHEN PIPE IS PASSING THROUGH WALL AND FLOOR FOR NON INSULATED PIPES, THE PIPE SLEEVE SHALL BE PROVIDED ONE SIZE HIGHER THAN THE OUTER PIPE DIAMETER, THE GAP BETWEEN PIPE & SLEEVE SHALL BE MINIMUM 10 MM & MAXIMUM 25 MM. THE ANNULAR SPACE BETWEEN PIPE & SLEEVE SHALL BE FILLED WITH GLASS WOOL & SILICON SEALANT AT LEAST 20 MM DEEP. AS PER MANUFACTURER'S RECOMMENDATION IF PIPE THROUGH FIRE RATED WALL, THEN SEALANT SHALL BE APPROVED FIRE SEALANT.
5. FLOORING IN THE WET AREA SHALL HAVE ADEQUATE SLOPE TOWARD THE FLOOR / NAHANI TRAPS.
6. SANITARY WARES, FITTINGS & ACCESSORIES MODELS SHALL BE USED AS PER ENGINEER'S APPROVAL.
7. LOCATIONS & LEVELS OF SANITARY APPLIANCES & FITTINGS ARE BASED ON STANDARD PRACTICE.
8. NECESSARY MODIFICATIONS, IF REQUIRED, TO SUITE THE INTERIOR DESIGN / TILE MODULES SHALL BE CARRIED OUT AT SITE AFTER OBTAINING THE CONFIRMATION FROM SITE INCHARGE.
9. NECESSARY CUTOUTS / SLEEVES / INSERTS ETC AS REQUIRED SHALL BE PROVIDED AT THE TIME OF PREPARATION OF THE RESPECTIVE DRAWINGS. REFER LATEST ARCHITECTURAL LAYOUT BEFORE CARRYING OUT THE WORK. DISCREPANCY, IF ANY, TO BE GOT CLARIFIED FROM THE SITE INCHARGE & NECESSARY MODIFICATIONS TO BE CARRIED OUT AT SITE.
11. IN NO CASE DAMAGE TO STRUCTURAL ELEMENT IS PERMITTED FOR CONCEALED PIPING/CONDUITING. PROVIDE LEDGE WALLS AND CONCEALED ALL PIPES/CONDUITS WHEREVER REQUIRED.
12. FOR CUTOUT DETAILS REFER STRUCTURAL DRAWINGS.
13. THESE ARE TENDER PURPOSE DRAWINGS. EXACT ROUTING OF PIPES AND LOCATION CAN BE FINALISED DURING DETAILED ENGINEERING.

LEGENDS :-

1		DOMESTIC WATER SUPPLY PIPE
2		DWS FROM UGT TO OHT PIPE
3		Ø75mm WASTE PIPE
4		Ø110mm SOIL PIPE
5		Ø110mm RAIN WATER PIPE
6		Ø75mm VENT PIPE
7		FT FLOOR TRAP / DEEP SEAL 'P' TRAP
8		CO FLOOR CLEAN OUT
9		BV BALL VALVE

FOR TENDER PURPOSE ONLY
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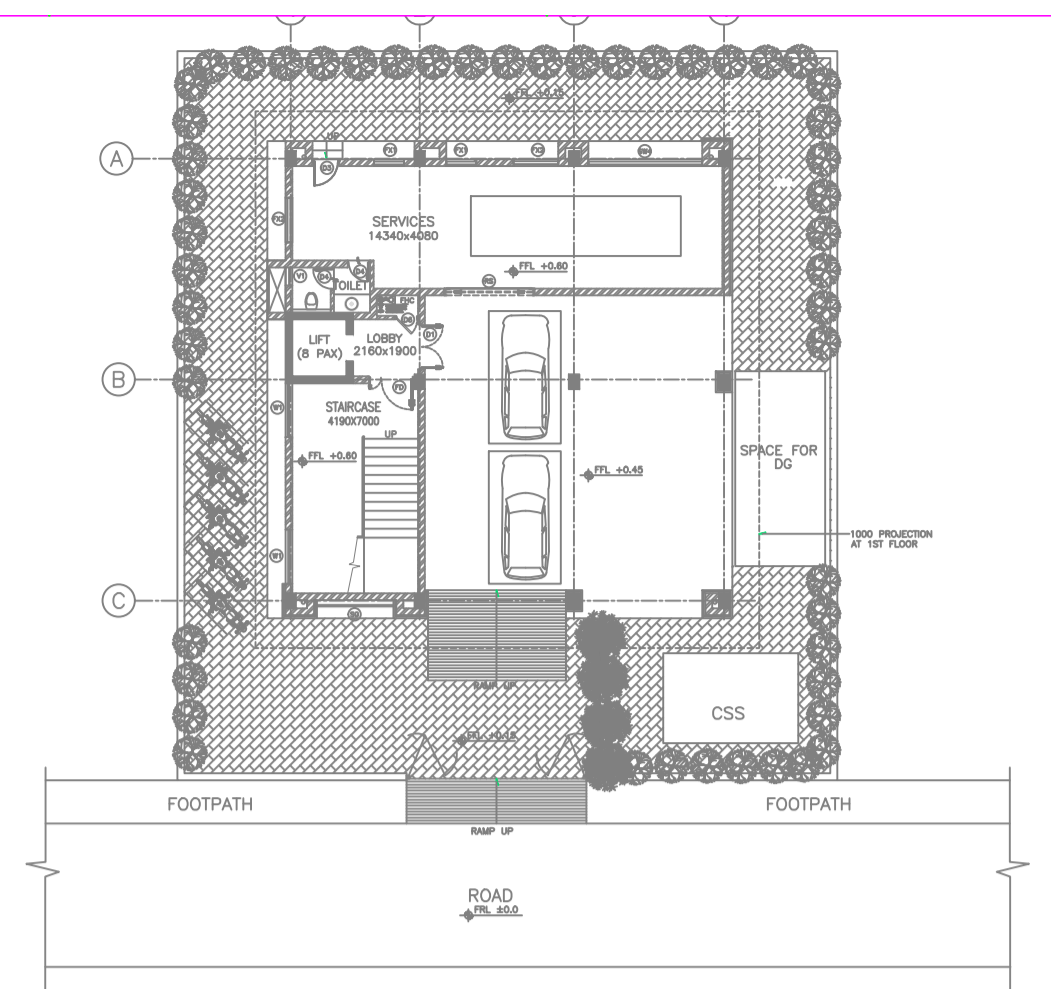
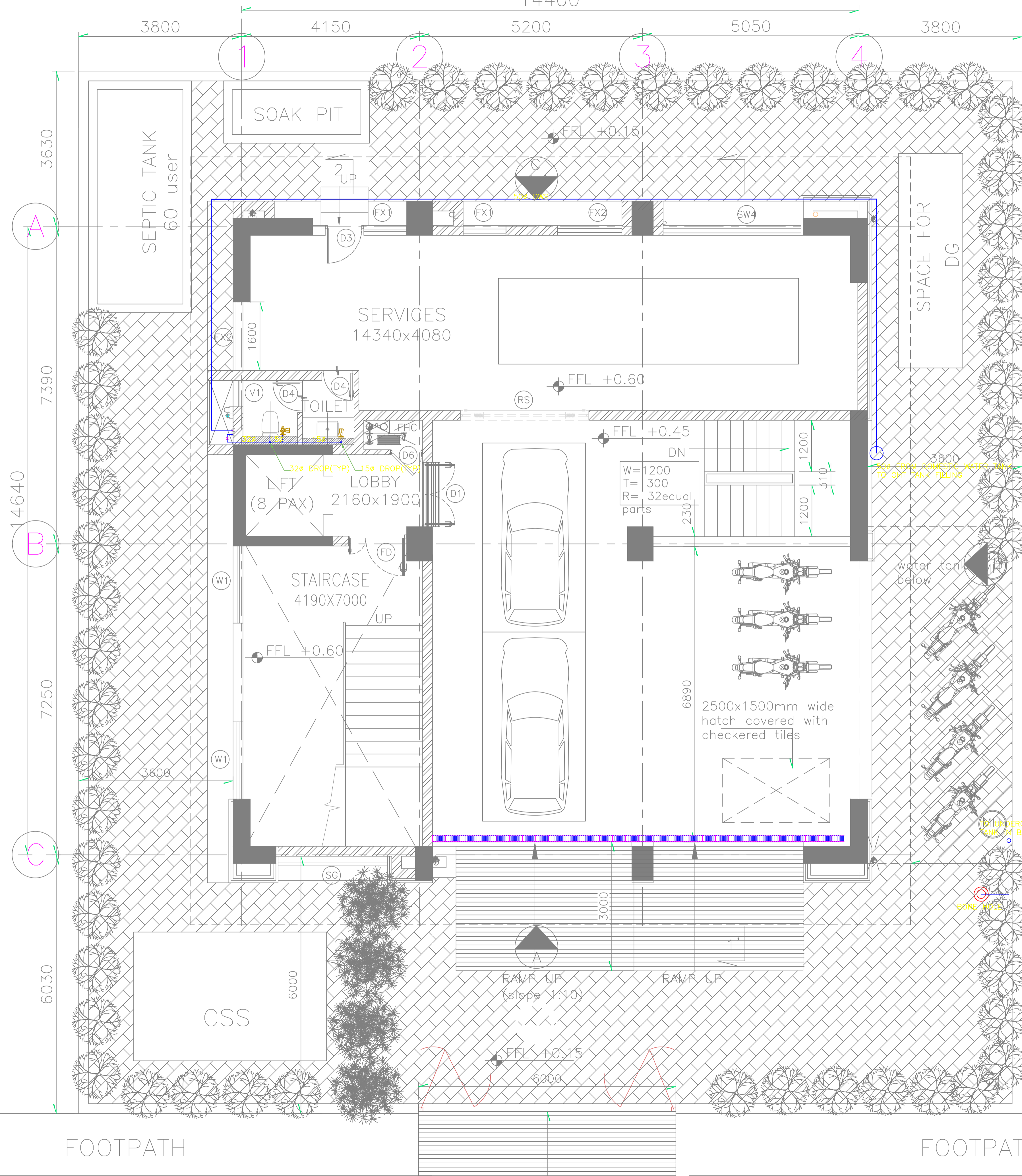
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GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

DRAINAGE LAYOUT OF GROUND FLOOR

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : 1:100
DWG NO. TCE.10477A-CV-819-6050
DC & DISC: PN-ME
ISSUE PO



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 (SCALE = NTS)
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5. FLOORING IN THE WET AREA SHALL HAVE ADEQUATE SLOPE TOWARD THE FLOOR / NAHANI TRAPS.
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LEGENDS :-

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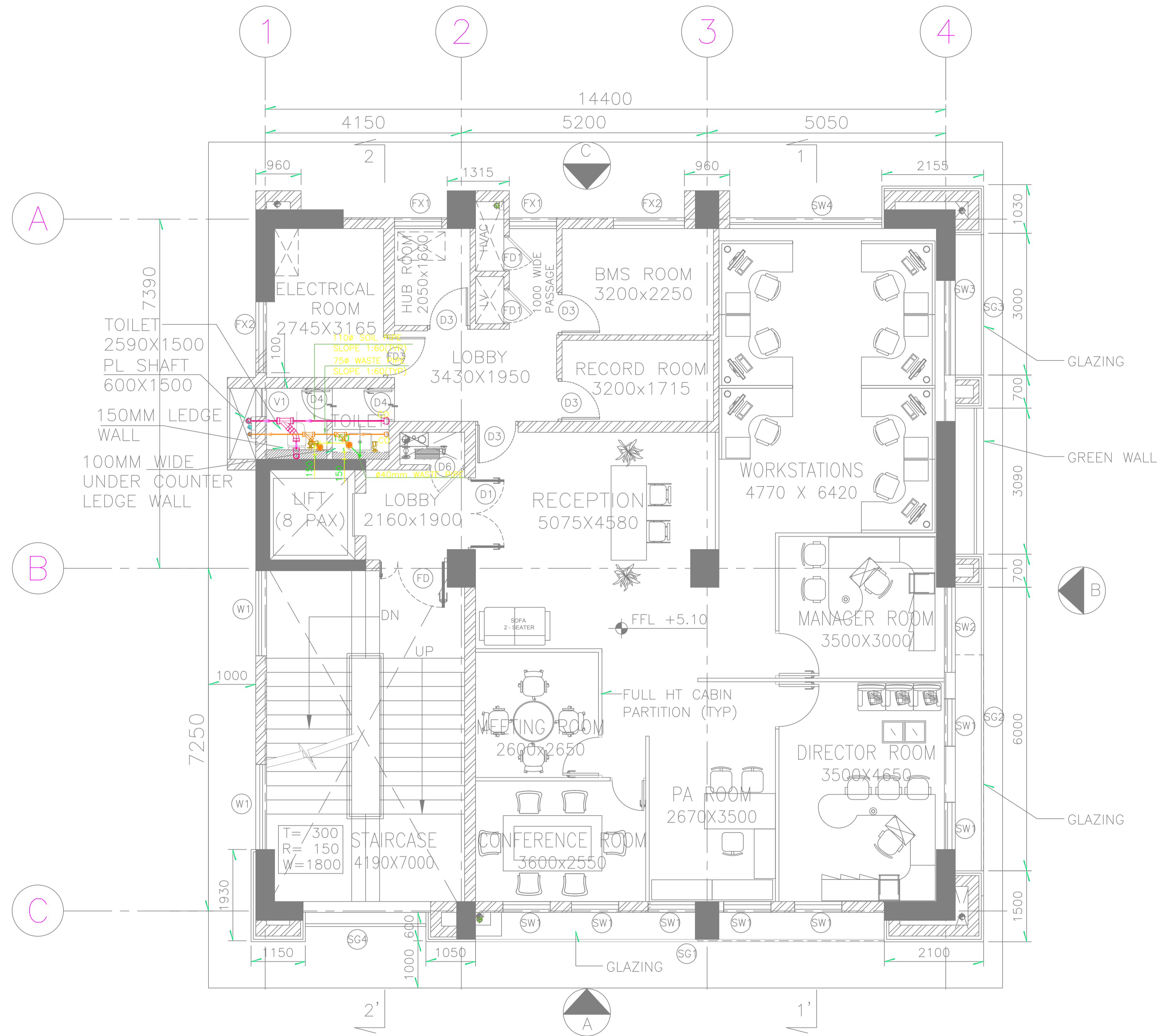
SMART CITY MISSION GUWAHATI

WATER SUPPLY LAYOUT OF GROUND FLOOR

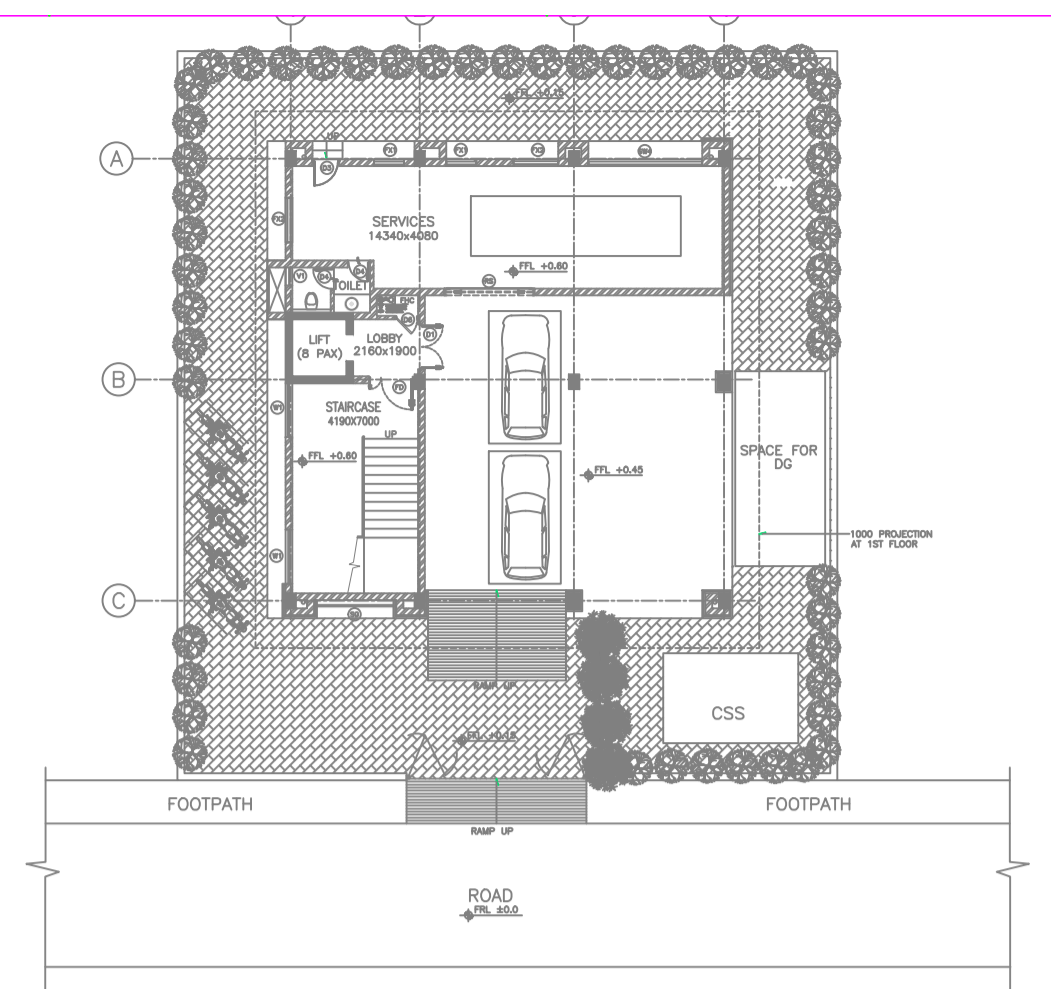
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1ST FLOOR PLAN



KEY PLAN (SCALE - NTS)

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6		Ø75mm VENT PIPE
7		FT FLOOR TRAP/ DEEP SEAL 'P' TRAP
8		CO FLOOR CLEAN OUT
9		BV BALL VALVE

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INITIALS																					
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PO	SIGN.																				
ISSUE	INITIALS	MR	MA	MAM	IC	ME	PL	HVAC	EXT	LS	PE/PM	APPD	DATE							13-05-2020	
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GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.

SMART CITY MISSION GUWAHATI

DRAINAGE LAYOUT OF TYPICAL TOILET BLOCK OF FIRST AND THIRD FLOOR

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : 1:100 DWG NO. TCE.10477A-CV-819-6051 ISSUE PO
DC & DISC: PN-ME