

S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING
1000 C.I. SOL. & VENT PIPE
1000 C.I. WASTE & VENT PIPE
750 ANTI-SYPHONAGE PIPE
DOMESTIC WATER SUPPLY D.N. TAKE PIPE
FLUSHING WATER SUPPLY D.N. TAKE PIPE
HOT WATER SUPPLY D.N. TAKE PIPE
400 CWS RISER TO QHT
400 FWS RISER TO QHT
100 (OD) UPVC RAIN WATER PIPE
75 (OD) UPVC RAIN WATER PIPE (FOR BALCONY)

CWS COLD WATER SUPPLY
FWS FLUSHING WATER SUPPLY
HWS HOT WATER SUPPLY
HWS HOT WATER RETURN
F.D FLOOR DRAIN (50x100 MM)
U.T URINAL TRAP (100x100 MM)
C.I CAST IRON
G.I GALVANIZED IRON
F.C.O FLOOR CLEAN OUT
C.O.P CLEAN OUT PLUG

PLUMBING NOTE:-
* ALL SOL.WASTE & VENT PIPES SHALL BE C.I. HUBLESS PIPES IS : 15905
* W.C TO VERTICAL SOIL STACK 1000 C.I. SOL. PIPE
* FLOOR TRAP TO VERTICAL WASTE STACK 1000 C.I. WASTE PIPE
* FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 1000 C.I. WASTE PIPE
* URINAL TRAP TO MAIN HORIZONTAL SOIL PIPE 1000 C.I. SOIL PIPE
* CLEAN OUT PLUG TO VERTICAL WASTE STACK 1000 C.I. WASTE PIPE
* CLEAN OUT PLUG TO VERTICAL SOIL STACK 1000 C.I. SOIL PIPE
* FLOOR DRAIN TO FLOOR TRAP 500 C.I. WASTE PIPE
* WASH BASIN TO FLOOR TRAP 320 C.I. WASTE PIPE
* SINK TO FLOOR TRAP 400 C.I. WASTE PIPE
* URINAL TO URINAL TRAP 400 C.I. SOIL PIPE
* CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
* TOWAGE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1238(PART)-2004
* RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 800/CG/4 IS 4985-2000

RAIN WATER SCHEME
1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016
2. RAINWATER DISPOSAL
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOL/WASTE PIPE SCHEME
1. DESIGN PARAMETER
SOL. PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE. MINIMUM DIAMETER OF SOL. AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME
1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOSED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FUTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS
SEWER WATER LINE
STORM WATER LINE
WASTE WATER LINE
COLD WATER SUPPLY (CWS)
FLUSHING WATER SUPPLY (FWS)
FT FLOOR TRAP (100X100)
FD FLOOR DRAIN (100X50)
GT GULLY TRAP SIZE (SIZE AS PER SPECS)
SMH SEWER MANHOLE SIZE (SIZE AS PER SPECS)
IC INSPECTION CHAMBER (SIZE AS PER DRAWING)
CB CATCH BASIN SIZE (SIZE AS PER BOQ)
MMH DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE

DATE	REV.	REV.BY.	DESCRIPTION	DATE	NOS	ISSUED TO
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ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON	21-05-2024	AT- NEW DELHI	PROJECT CODE
SIG	SIG	SIG	202210
Name :	Name :	Name :	BUILDING CODE
ORIGINATED BY ARCHITECT	CHECKED BY ARCHITECT	VALIDATED BY ARCHITECT	H2

PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

	C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com	SANDEEP GOEL CHIEF ARCHITECT
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	BUILDING TYPE: HOUSING BLOCK	CLIENT :
	DRAWING TITLE: PLINTH LEVEL PLUMBING LAYOUT	
	DRAWING NUMBER: 202210-GBU-H2-S5-PL-001	

SCALE: 1 : 100	SHEET SIZE : A3	SHEET NO :
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OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOS
1	FIRE TANK	25 CLM	1	ROD
2	DOMESTIC TANK	10 CLM	2	ROD
3	FLUSHING TANK	5 CLM	3	ROD
4	SOLAR TANK	1.5 CLM	4	S.S

LEGEND FOR PLUMBING	
①	100W C.I SOL & VENT PIPE
②	100W C.I WASTE & VENT PIPE
③	75W ANTI-SYPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE
⑥	HOT WATER SUPPLY D.N TAKE PIPE
⑦	40W CWS RISER TO OHT
⑧	40W FWS RISER TO OHT
⑨	100 (OD) UPVC RAIN WATER PIPE
⑩	75 (OD) UPVC RAIN WATER PIPE (FOR BALCONY)

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D	FLOOR DRAIN (50x100 MM)
U.T	URNAL TRAP (100x100 MM)
C.I	CAST IRON
G.I	GALVANIZED IRON
F.C.O	FLOOR CLEAN OUT
C.O.P	CLEAN OUT PLUG

PLUMBING NOTE:-

- * ALL SOL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS 15045
- * W.C TO VERTICAL SOL STACK 100W C.I SOL PIPE
- * FLOOR TRAP TO VERTICAL WASTE STACK 100W C.I WASTE PIPE
- * FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100W C.I WASTE PIPE
- * URINAL TRAP TO MAIN HORIZONTAL SOL PIPE 100W C.I SOL PIPE
- * CLEAN OUT PLUG TO VERTICAL WASTE STACK 100W C.I WASTE PIPE
- * CLEAN OUT PLUG TO VERTICAL SOL STACK 100W C.I SOL PIPE
- * FLOOR DRAIN TO FLOOR TRAP 50W G.I WASTE PIPE
- * WASH BASIN TO FLOOR TRAP 32W G.I WASTE PIPE
- * SINK TO FLOOR TRAP 40W G.I WASTE PIPE
- * URINAL TO URINAL TRAP 40W G.I SOL PIPE
- * CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
- * TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1236/PART1:2004
- * RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 8W/10W IS 4885-2000

RAIN WATER SCHEME

1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016

2. RAINWATER DISPOSAL
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOL/WASTE PIPE SCHEME

1. DESIGN PARAMETER
SOL PIPES PROPOSED TO BE CONNECTED TO MANHOLE & WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE. MINIMUM DIAMETER OF SOL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME

1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROVIDED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FUTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS	
—	SEWER WATER LINE
—	STORM WATER LINE
—	WASTE WATER LINE
—	COLD WATER SUPPLY (CWS)
—	FLUSHING WATER SUPPLY (CWS)
FT	FLOOR TRAP (100X100)
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)
CB	CATCH BASIN SIZE (SIZE AS PER BOO)
DM	DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE

DATE	REV.	REV.BY.	DESCRIPTION	DATE	NOS	ISSUED TO
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ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON	21-05-2024	AT- NEW DELHI	PROJECT CODE
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SIG	SIG	SIG	202210
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Name :	Name :	Name :	BUILDING CODE
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ORIGINATED BY	CHECKED BY	VALIDATED BY	H2
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PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

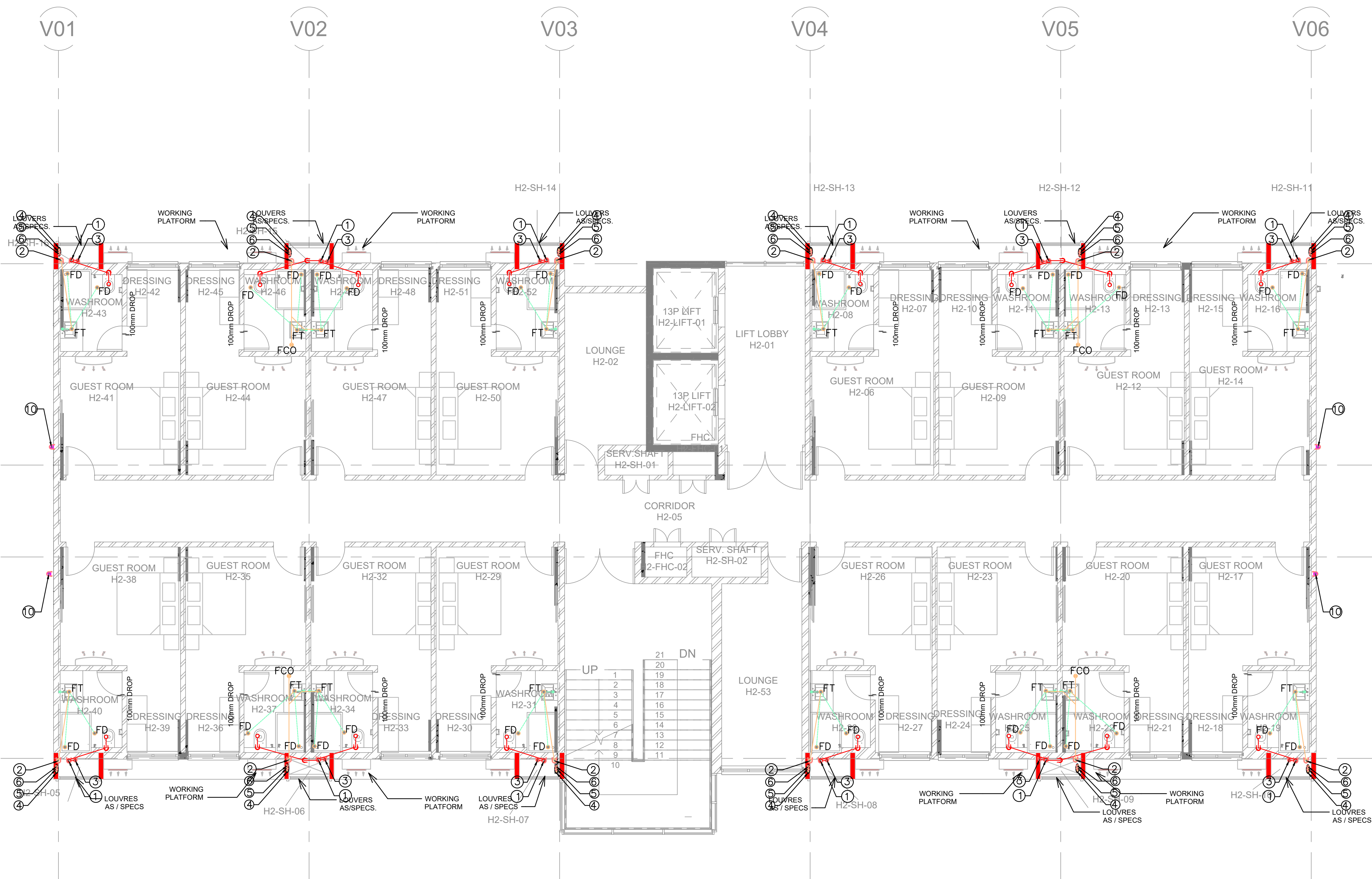
	C-85, SHIVALIK NEW DELHI-110017 TEL:(011)26676254,41034450 MAIL:mail@sgadesignlab.com	SANDEEP GOEL CHIEF ARCHITECT
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BUILDING TYPE:
HOUSING BLOCK

DRAWING TITLE:
FIRST LEVEL PLUMBING LAYOUT

DRAWING NUMBER:
202210-GBU-H2-S5-PL-002

SCALE: 1 : 100	SHEET SIZE : A3	SHEET NO :
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OVERHEAD WATER TANK					
S.NO	DESCRIPTION	VOLUME	TANK NO	MO	CC
1	FIRE TANK	25 CUM	1	RO	
2	DOMESTIC TANK	10 CUM	2	RO	
3	FLUSHING TANK	5 CUM	3	RO	
4	SOLAR TANK	1.5 CUM	4	SS	

LEGEND FOR PLUMBING	
①	100W C.I. SOL & VENT PIPE
②	100W C.I. WASTE & VENT PIPE
③	75W ANTI-SIPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N. TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N. TAKE PIPE
⑥	HOT WATER SUPPLY D.N. TAKE PIPE
⑦	40W CWS RISER TO CHT
⑧	40W FWS RISER TO CHT
⑨	100 (GO) UPVC RAIN WATER PIPE
⑩	75 (GO) UPVC RAIN WATER PIPE (FOR BALCONY)

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D.	FLOOR DRAIN (50x100 MM)
U.T.	URINAL TRAP (100x100 MM)
C.I.	CAST IRON
G.I.	GALVANIZED IRON
F.C.O.	FLOOR CLEAN OUT
C.O.P.	CLEAN OUT PLUG

PLUMBING NOTE:-

- ALL SOL/WASTE & VENT PIPES SHALL BE C.I. HURLESS PIPES IS : 1500S
- W.C. TO VERTICAL SOL. STACK 100W C.I. SOL. PIPE
- FLOOR TRAP TO VERTICAL WASTE STACK 100W C.I. WASTE PIPE
- FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100W C.I. WASTE PIPE
- URINAL TRAP TO MAIN HORIZONTAL SOL. PIPE 100W C.I. SOL. PIPE
- CLEAN OUT PLUG TO VERTICAL WASTE STACK 100W C.I. WASTE PIPE
- CLEAN OUT PLUG TO VERTICAL SOL. STACK 100W C.I. SOL. PIPE
- FLOOR DRAIN TO FLOOR TRAP 50W G.I. WASTE PIPE
- WASH BASIN TO FLOOR TRAP 50W G.I. WASTE PIPE
- SINK TO FLOOR TRAP 40W G.I. WASTE PIPE
- URINAL TO URINAL TRAP 40W G.I. SOL. PIPE
- CANCELLED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778-2007
- TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I. CLASS-B IS 1238-PART1:2004
- RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 80G/CM IS 4985-2000

RAIN WATER SCHEME

1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016

2. RAINWATER DISPOSAL
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEAREST RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK.

SOL/WASTE PIPE SCHEME

1. DESIGN PARAMETER
SOL. PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE. MINIMUM DIAMETER OF SOL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SIPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME

1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOSED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FUTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS	
—	SEWER WATER LINE
—	STORM WATER LINE
—	WASTE WATER LINE
—	COLD WATER SUPPLY (CWS)
—	FLUSHING WATER SUPPLY (FWS)
—	FT FLOOR TRAP (100X100)
—	FD FLOOR DRAIN (100X50)
—	GT GULLY TRAP SIZE (SIZE AS PER SPECS)
—	SMH SEWER MANHOLE SIZE (SIZE AS PER SPECS)
—	IC INSPECTION CHAMBER (SIZE AS PER DRAWING)
—	CB CATCH BASIN SIZE (SIZE AS PER BQ)
—	SMH DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE

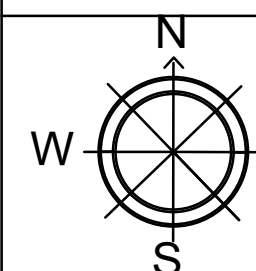
DATE	REV.	REV.BY.	DESCRIPTION	DATE	NOS	ISSUED TO
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ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON	21-05-2024	AT- NEW DELHI	PROJECT CODE
SIG	SIG	SIG	202210
Name :	Name :	Name :	BUILDING CODE
ORIGINATED BY	CHECKED BY	VALIDATED BY	H2
ARCHITECT	ARCHITECT	ARCHITECT	

PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

	C-85, SHIVALIK NEW DELHI-110017 TEL:(011)26676254,41034450 MAIL:mail@sgadesignlab.com	SANDEEP GOEL CHIEF ARCHITECT
		CLIENT :

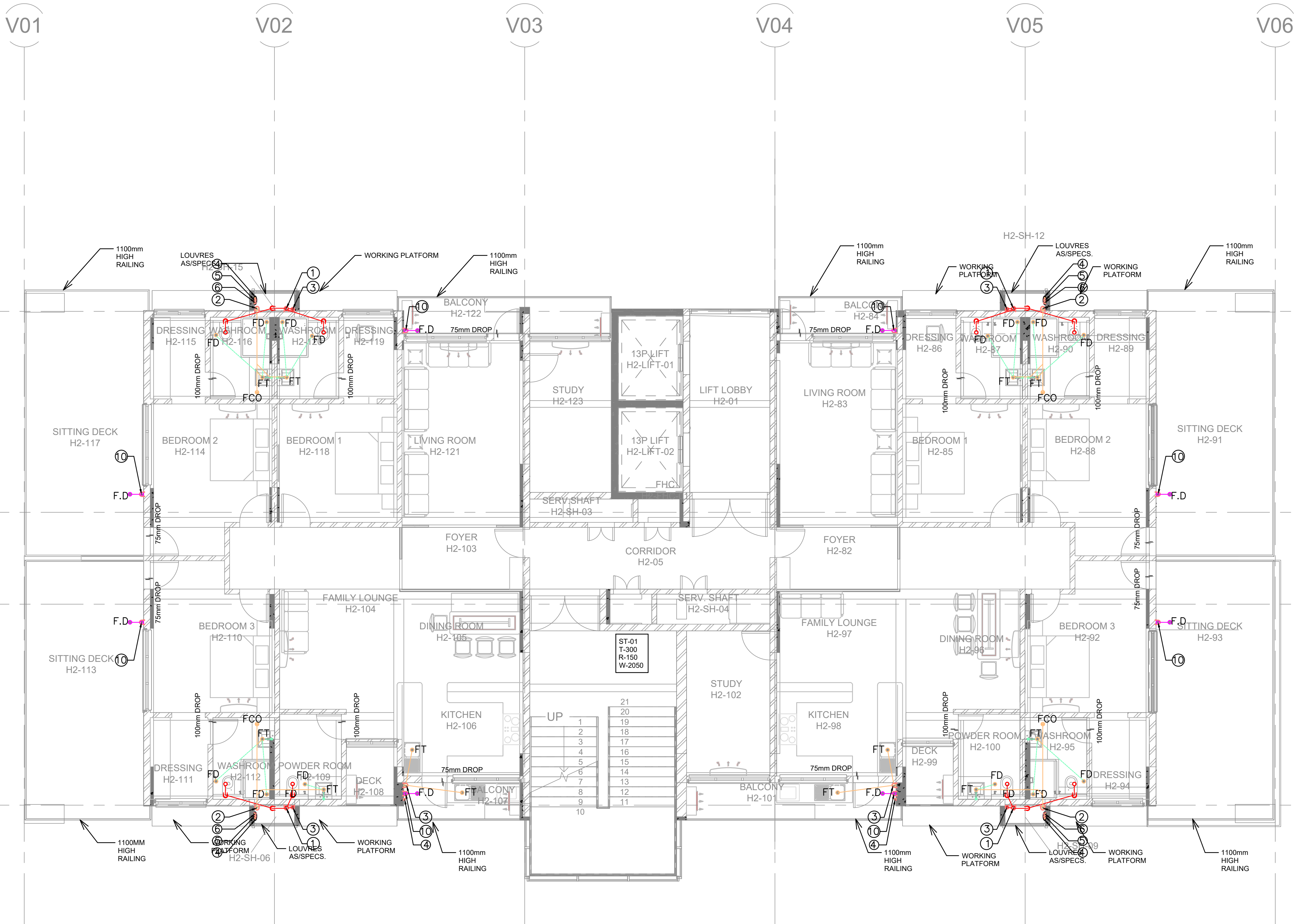


BUILDING TYPE:
HOUSING BLOCK

DRAWING TITLE:
SECOND LEVEL PLUMBING LAYOUT

DRAWING NUMBER:
202210-GBU-H2-S5-PL-003

SCALE: 1 : 100	SHEET SIZE : A3	SHEET NO :
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OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOD
1	FIRE TANK	25 CUM	1	ROD
2	DOMESTIC TANK	10 CUM	2	ROD
3	FLUSHING TANK	5 CUM	3	ROD
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING

①	100W C.I SOL & VENT PIPE
②	100W C.I WASTE & VENT PIPE
③	75W ANTI-SYPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.I TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.I TAKE PIPE
⑥	HOT WATER SUPPLY D.I TAKE PIPE
⑦	40W CWS RISER TO OHT
⑧	40W FWS RISER TO OHT
⑨	100 (OD) UPVC RAIN WATER PIPE
⑩	75 (OD) UPVC RAIN WATER PIPE (FOR BALCONY)

CWS COLD WATER SUPPLY

FWS FLUSHING WATER SUPPLY

HWR HOT WATER RETURN

HWS HOT WATER SUPPLY

F.D FLOOR DRAIN (50x100 MM)

U.T URINAL TRAP (100x100 MM)

C.I CAST IRON

G.I GALVANIZED IRON

F.C.O FLOOR CLEAN OUT

C.O.P CLEAN OUT PLUG

PLUMBING NOTE:-

- * ALL SOL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15805
- * W.C TO VERTICAL SOL STACK 100W C.I SOL PIPE
- * FLOOR TRAP TO VERTICAL WASTE STACK 100W C.I WASTE PIPE
- * FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100W C.I WASTE PIPE
- * URINAL TRAP TO MAIN HORIZONTAL SOL PIPE 100W C.I SOL PIPE
- * URINAL TRAP TO MAIN HORIZONTAL WASTE PIPE 100W C.I WASTE PIPE
- * CLEAN OUT PLUG TO VERTICAL WASTE STACK 100W C.I WASTE PIPE
- * CLEAN OUT PLUG TO VERTICAL SOL STACK 100W C.I SOL PIPE
- * FLOOR DRAIN TO FLOOR TRAP 50W C.I WASTE PIPE
- * WASH BASIN TO FLOOR TRAP 50W C.I WASTE PIPE
- * SINK TO FLOOR TRAP 40W C.I WASTE PIPE
- * URINAL TO URINAL TRAP 40W C.I SOL PIPE
- * CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
- * TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239/PART1:2004
- * RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 80G/CM IS 4985-2000

RAIN WATER SCHEME

1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016
2. RAINWATER DISPOSAL
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAIN TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOL/WASTE PIPE SCHEME

1. DESIGN PARAMETER
SOL PIPES PROPOSED TO BE CONNECTED TO MANHOLE . WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME

1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOSED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FICTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS

—	SEWER WATER LINE
—	STORM WATER LINE
—	WASTE WATER LINE
—	COLD WATER SUPPLY (CWS)
—	FLUSHING WATER SUPPLY (FWS)
—	FT FLOOR TRAP (100X100)
—	FD FLOOR DRAIN (100X50)
—	GT GULLY TRAP SIZE (SIZE AS PER SPECS)
—	SMH SEWER MANHOLE SIZE (SIZE AS PER SPECS)
—	IC INSPECTION CHAMBER (SIZE AS PER DRAWING)
—	CB CATCH BASIN SIZE (SIZE AS PER BOO)
—	DMH DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE

DATE	REV.	REV.BY.	DESCRIPTION	DATE	NOS	ISSUED TO
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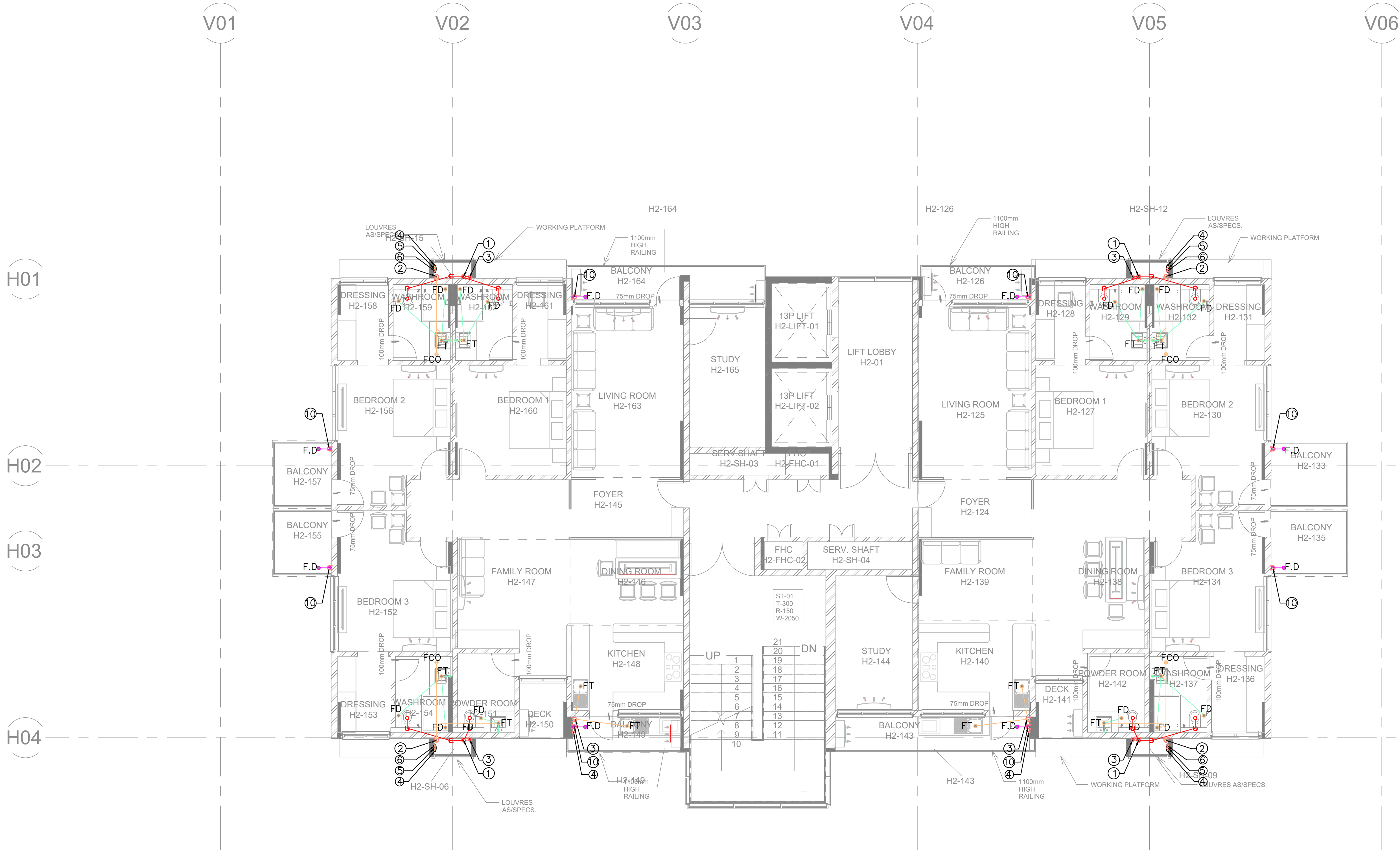
ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON	21-05-2024	AT- NEW DELHI	PROJECT CODE
SIG	SIG	SIG	202210
Name :	Name :	Name :	BUILDING CODE
ORIGINATED BY	CHECKED BY	VALIDATED BY	H2
ARCHITECT	ARCHITECT	ARCHITECT	

PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

	C-85, SHIVALIK NEW DELHI-110017 TEL:(011)26676254,41034450 MAIL:mail@sgadesignlab.com	SANDEEP GOEL CHIEF ARCHITECT
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	BUILDING TYPE: HOUSING BLOCK	CLIENT :
	DRAWING TITLE: THIRD LEVEL PLUMBING LAYOUT	
	DRAWING NUMBER: 202210-GBU-H2-S5-PL-004	
SCALE: 1 : 100	SHEET SIZE : A3	SHEET NO :



S.NO	DESCRIPTION	VOLUME	TANK NO	MOD
1	FIRE TANK	25 CUM	1	ROC
2	DOMESTIC TANK	10 CUM	2	ROC
3	FLUSHING TANK	5 CUM	3	ROC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING			
①	100mm C.I. SOL. & VENT PIPE		
②	100mm C.I. WASTE & VENT PIPE		
③	75mm ANTI-SYPHONAGE PIPE		
④	DOMESTIC WATER SUPPLY D.N. TAKE PIPE		
⑤	FLUSHING WATER SUPPLY D.N. TAKE PIPE		
⑥	HOT WATER SUPPLY D.N. TAKE PIPE		
⑦	40mm CWS RISER TO CHIT		
⑧	40mm FWS RISER TO CHIT		
⑨	100 (OD) uPVC RAIN WATER PIPE		
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)		

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D	FLOOR DRAIN (50x100 MM)
U.T	URINAL TRAP (100x100 MM)
C.I	CAST IRON
C.I	DALWAZED IRON
F.C.O	FLOOR CLEAN OUT
C.O.P	CLEAN OUT PLUG

PLUMBING NOTE:-
* ALL SOL,WASTE & VENT PIPES SHALL BE C.I. HURLESS PIPES IS : 15005
* W.C TO VERTICAL SOL STACK 100mm C.I. SOL PIPE
* FLOOR TRAP TO VERTICAL WASTE STACK 100mm C.I. WASTE PIPE
* FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100mm C.I. WASTE PIPE
* URINAL TRAP TO MAIN HORIZONTAL SOL PIPE 100mm C.I. SOL PIPE
* CLEAN OUT PLUG TO VERTICAL WASTE STACK 100mm C.I. WASTE PIPE
* CLEAN OUT PLUG TO VERTICAL SOL STACK 100mm C.I. SOL PIPE
* FLOOR DRAIN TO FLOOR TRAP 50mm C.I. WASTE PIPE
* WASH BASIN TO FLOOR TRAP 30mm C.I. WASTE PIPE
* SINK TO FLOOR TRAP 40mm C.I. WASTE PIPE
* URINAL TO URINAL TRAP 40mm C.I. SOL PIPE
* CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SOR-11 IS 15778:2007
* TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1538(PART1):2004
* RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED BR/CPVC IS 4985-2000

RAIN WATER SCHEME
1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016
2. RAINWATER DISPOSAL
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOL/WASTE PIPE SCHEME
1. DESIGN PARAMETER
SOL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME
1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROVIDED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FUTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS	
	SEWER WATER LINE
	STORM WATER LINE
	WASTE WATER LINE
	COLD WATER SUPPLY (CWS)
	FLUSHING WATER SUPPLY (CWS)
	FT FLOOR TRAP (100x100)
	FD FLOOR DRAIN (100x50)
	GT GULLY TRAP SIZE (SIZE AS PER SPECS)
	SMH SEWER MANHOLE SIZE (SIZE AS PER SPECS)
	IC INSPECTION CHAMBER (SIZE AS PER DRAWING)
	CB CATCH BASIN SIZE (SIZE AS PER BOQ)
	DM DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE

DATE	REV.	REV.BY.	DESCRIPTION	DATE	NOS	ISSUED TO

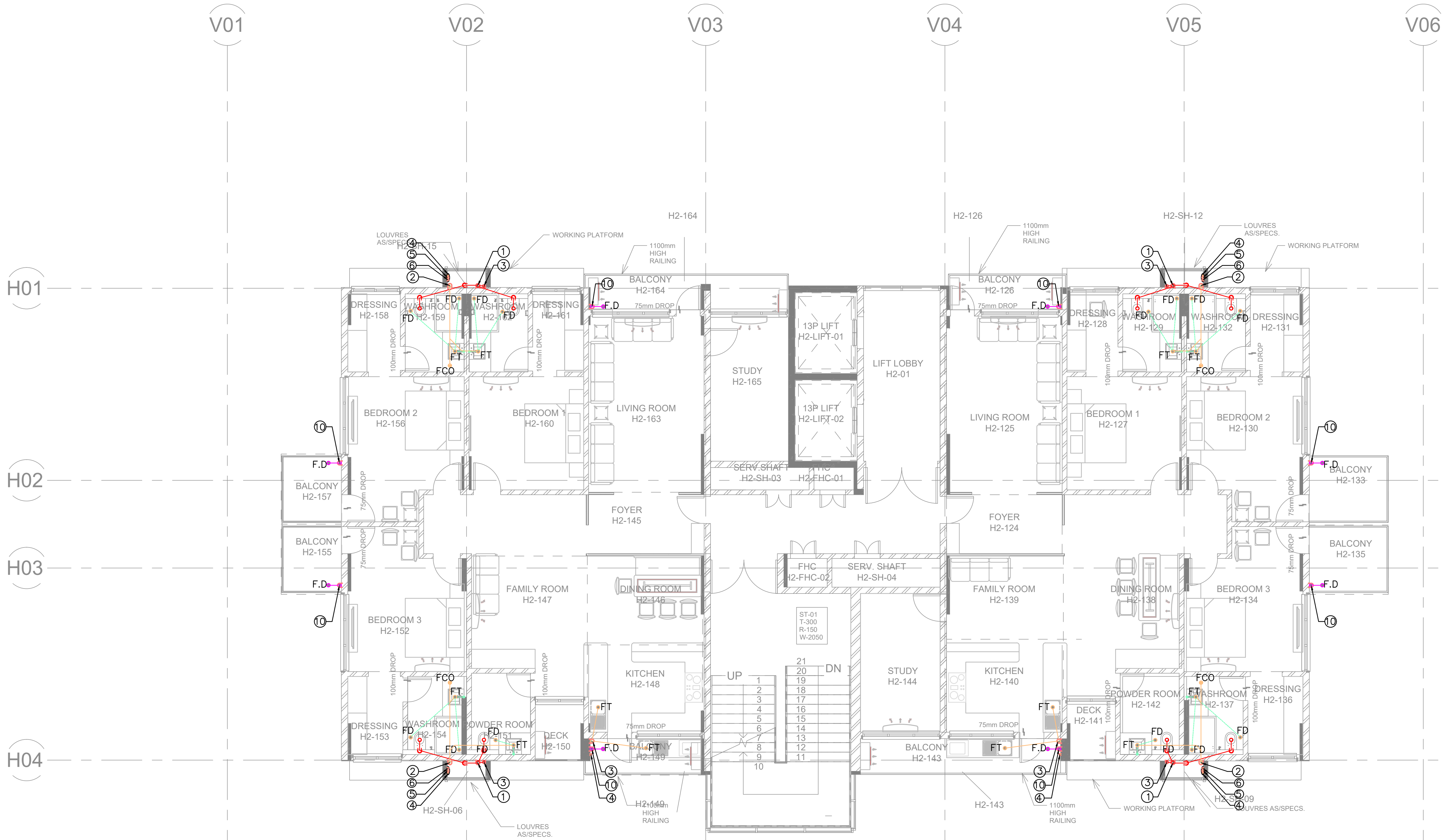
ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON	21-05-2024	AT- NEW DELHI	PROJECT CODE
SIG	SIG	SIG	202210
Name :	Name :	Name :	BUILDING CODE
ORIGINATED BY	CHECKED BY	VALIDATED BY	H2
ARCHITECT	ARCHITECT	ARCHITECT	

PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

	C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com	SANDEEP GOEL CHIEF ARCHITECT
		CLIENT :

	BUILDING TYPE: HOUSING BLOCK
	DRAWING TITLE: FIFTH LEVEL PLUMBING LAYOUT
	DRAWING NUMBER: 202210-GBU-H2-S5-PL-005
SCALE: 1 : 100	SHEET SIZE : A3
	SHEET NO :



S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	ROC
2	DOMESTIC TANK	10 CUM	2	ROC
3	FLUSHING TANK	5 CUM	3	ROC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING	
①	100W C.J. SOL. & VENT PIPE
②	100W C.J. WASTE & VENT PIPE
③	75W ANTI-SIPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N. TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N. TAKE PIPE
⑥	HOT WATER SUPPLY D.N. TAKE PIPE
⑦	40W CWS RISER TO OHT
⑧	40W FWS RISER TO OHT
⑨	100 (OD) UPVC RAIN WATER PIPE
⑩	75 (OD) UPVC RAIN WATER PIPE (FOR BALCONY)

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D	FLOOR DRAIN (50x100 MM)
U.T	URINAL TRAP (100x100 MM)
C.I	CAST IRON
G.I	GALVANIZED IRON
F.C.O	FLOOR CLEAN OUT
C.O.P	CLEAN OUT PLUG

PLUMBING NOTE:-
1. ALL SOL. WASTE & VENT PIPES SHALL BE C.I. HUBLESS PIPES IS : 15005
2. W.C. TO VERTICAL SOL. STACK 100W C.I. SOL. PIPE
3. FLOOR TRAP TO VERTICAL WASTE STACK 100W C.I. WASTE PIPE
4. FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100W C.I. WASTE PIPE
5. URINAL TRAP TO MAIN HORIZONTAL SOL. PIPE 100W C.I. SOL. PIPE
6. CLEAN OUT PLUG TO VERTICAL WASTE STACK 100W C.I. WASTE PIPE
7. CLEAN OUT PLUG TO VERTICAL SOL. STACK 100W C.I. SOL. PIPE
8. FLOOR DRAIN TO FLOOR TRAP 32W C.I. WASTE PIPE
9. WASH BASIN TO FLOOR TRAP 32W C.I. WASTE PIPE
10. SINK TO FLOOR TRAP 40W C.I. WASTE PIPE
11. URINAL TO URINAL TRAP 40W C.I. SOL. PIPE
12. CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15776:2007
13. TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I. CLASS-B IS 1228-PARTY:2004
14. RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 80G/GW IS 4885-2000

RAIN WATER SCHEME
1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2018
2. RAINWATER DISPOSAL
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOL./WASTE PIPE SCHEME
1. DESIGN PARAMETER
SOL. PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPES ARE TO GULLY TRAP AND THEN TO MANHOLE. MINIMUM DIAMETER OF SOL. AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SIPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME
1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROVIDED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FUTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS	
	SEWER WATER LINE
	STORM WATER LINE
	WASTE WATER LINE
	COLD WATER SUPPLY (CWS)
	FLUSHING WATER SUPPLY (FWS)
	FT FLOOR TRAP (100X100)
	FD FLOOR DRAIN (100X50)
	GT GULLY TRAP SIZE (SIZE AS PER SPECS)
	SMH SEWER MANHOLE SIZE (SIZE AS PER SPECS)
	IC INSPECTION CHAMBER (SIZE AS PER DRAWING)
	CB CATCH BASIN SIZE (SIZE AS PER BOQ)
	DMF DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE

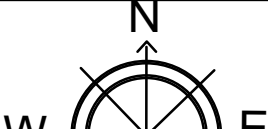
DATE	REV.	REV.BY.	DESCRIPTION	DATE	NOS	ISSUED TO
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ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON	21-05-2024	AT- NEW DELHI	PROJECT CODE
SIG	SIG	SIG	202210
Name :	Name :	Name :	BUILDING CODE
ORIGINATED BY	CHECKED BY	VALIDATED BY	H2
ARCHITECT	ARCHITECT	ARCHITECT	

PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

	C-85, SHIVALIK NEW DELHI-110017 TEL:(011)26676254,41034450 MAIL:mail@sgadesignlab.com	SANDEEP GOEL CHIEF ARCHITECT
		CLIENT :

	BUILDING TYPE: HOUSING BLOCK	
	DRAWING TITLE: 6TH-14TH LEVEL PLUMBING LAYOUT	
	DRAWING NUMBER: 202210-GBU-H2-S5-PL-006	
	SCALE: 1 : 100	SHEET SIZE : A3

FOR TENDER PURPOSE ONLY

OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S
LEGEND FOR PLUMBING				
①	100W C.I SOL & VENT PIPE			
②	100W C.I WASTE & VENT PIPE			
③	75W ANTI-SYPHONAGE PIPE			
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE			
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE			
⑥	HOT WATER SUPPLY D.N TAKE PIPE			
⑦	40W CWS RISER TO OHT			
⑧	40W FWS RISER TO OHT			
⑨	100 (OD) UPVC RAIN WATER PIPE			
⑩	75 (OD) UPVC RAIN WATER PIPE (FOR BALCONY)			
CWS COLD WATER SUPPLY				
FWS FLUSHING WATER SUPPLY				
HWR HOT WATER RETURN				
HWS HOT WATER SUPPLY				
F.D	FLOOR DRAIN (50x100 MM)			
U.T	URINAL TRAP (100x100 MM)			
C.I	CAST IRON			
G.I	GALVANIZED IRON			
F.C.O	FLOOR CLEAN OUT			
C.O.P	CLEAN OUT PLUG			
PLUMBING NOTE -				
• ALL SOL, WASTE & VENT PIPES SHALL BE C.I HURLESS PIPES IS : 15905				
• W.C TO VERTICAL SOL STACK 100W C.I SOL PIPE				
• FLOOR TRAP TO VERTICAL WASTE STACK 100W C.I WASTE PIPE				
• FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100W C.I WASTE PIPE				
• URINAL TRAP TO MAIN HORIZONTAL SOL PIPE 100W C.I SOL PIPE				
• CLEAN OUT PLUG TO VERTICAL WASTE STACK 100W C.I WASTE PIPE				
• CLEAN OUT PLUG TO VERTICAL SOL STACK 100W C.I SOL PIPE				
• FLOOR DRAIN TO FLOOR TRAP 50W G.I WASTE PIPE				
• WASH BASIN TO FLOOR TRAP 50W G.I WASTE PIPE				
• SINK TO FLOOR TRAP 40W G.I WASTE PIPE				
• URINAL TO URINAL TRAP 40W G.I SOL PIPE				
• CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778-2007				
• TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1238-PART1:2004				
• RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM IS 4985-2000				
RAIN WATER SCHEME				
1. DESIGN PARAMETER				
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2018				
2. RAINWATER DISPOSAL				
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK				
SOL/WASTE PIPE SCHEME				
1. DESIGN PARAMETER				
SOL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER				
INTERNAL WATER SUPPLY PIPE SCHEME				
1. DESIGN PARAMETER				
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOSED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECDED BASED ON PRESSURE AND MAINTANENCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FUTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.				
PLUMBING LEGENDS				
SEWER WATER LINE				
STORM WATER LINE				
WASTE WATER LINE				
COLD WATER SUPPLY (CWS)				
FLUSHING WATER SUPPLY (FWS)				
FT FLOOR TRAP (100X100)				
FD FLOOR DRAIN (100X50)				
GT GULLY TRAP SIZE (SIZE AS PER SPECS)				
SMH SEWER MANHOLE SIZE (SIZE AS PER SPECS)				
IC INSPECTION CHAMBER (SIZE AS PER DRAWING)				
CB CATCH BASIN SIZE (SIZE AS PER BOQ)				
DMH DRAIN WATER MANHOLE (SIZE AS PER SPECS)				



NOTE - ONLY FOR TENDER PURPOSE


DATE	REV.	REV.BY.	DESCRIPTION	DATE	NOS	ISSUED TO
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ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON	21-05-2024	AT- NEW DELHI	PROJECT CODE
SIG	SIG	SIG	202210
Name :	Name :	Name :	BUILDING CODE
ORIGINATED BY	CHECKED BY	VALIDATED BY	H2
ARCHITECT	ARCHITECT	ARCHITECT	

PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

	C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com	SANDEEP GOEL
		CHIEF ARCHITECT
		CLIENT :

	<u>BUILDING TYPE:</u> HOUSING BLOCK	
	<u>DRAWING TITLE:</u> TERRACE LEVEL PLUMBING LAYOUT	
	<u>DRAWING NUMBER:</u> 202210-GBU-H2-S5-PL-007	
	SCALE: 1 : 100	SHEET SIZE : A3



TYPICAL DOWN TAKE FOR TYPE 3 & 4 BHK
OHT & PUMPS ARE COMMON
WATER SUPPLY SCHEMATIC DIAGRAM

GENERAL NOTES-

1. ALL DIMENSIONS ARE IN MM.
2. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
3. FOR STAIRCASE / TOILET / RAMP DETAIL, REFER DETAIL DRAWINGS.
4. ANY DISCREPANCY FOUND IN THE DRAWINGS SHOULD BE BROUGHT TO THE NOTICE OF ARCHITECT / STRUCTURAL CONSULTANT BEFORE TAKING ANY DECISION.
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH STRUCTURAL AND OTHER RELEVANT SERVICES DRAWINGS.
6. PLASTER AT ALL CORNERS TO BE CHAMFERED WITH 15 MM RADIUS.
7. ALL FINISHING / ITEMS SAMPLE SHALL BE APPROVED BY ENGINEER INCHARGE / ARCHITECT BEFORE PRECUREMENT.
8. DOOR AND WINDOWS SIZE AND MATERIAL SHALL BE COORDINATED WITH DETAILED DRAWINGS. ANY AMBIGUITY SHALL BE BROUGHT TO THE NOTICE OF ARCHITECT BEFORE TAKING FINAL DECISION.

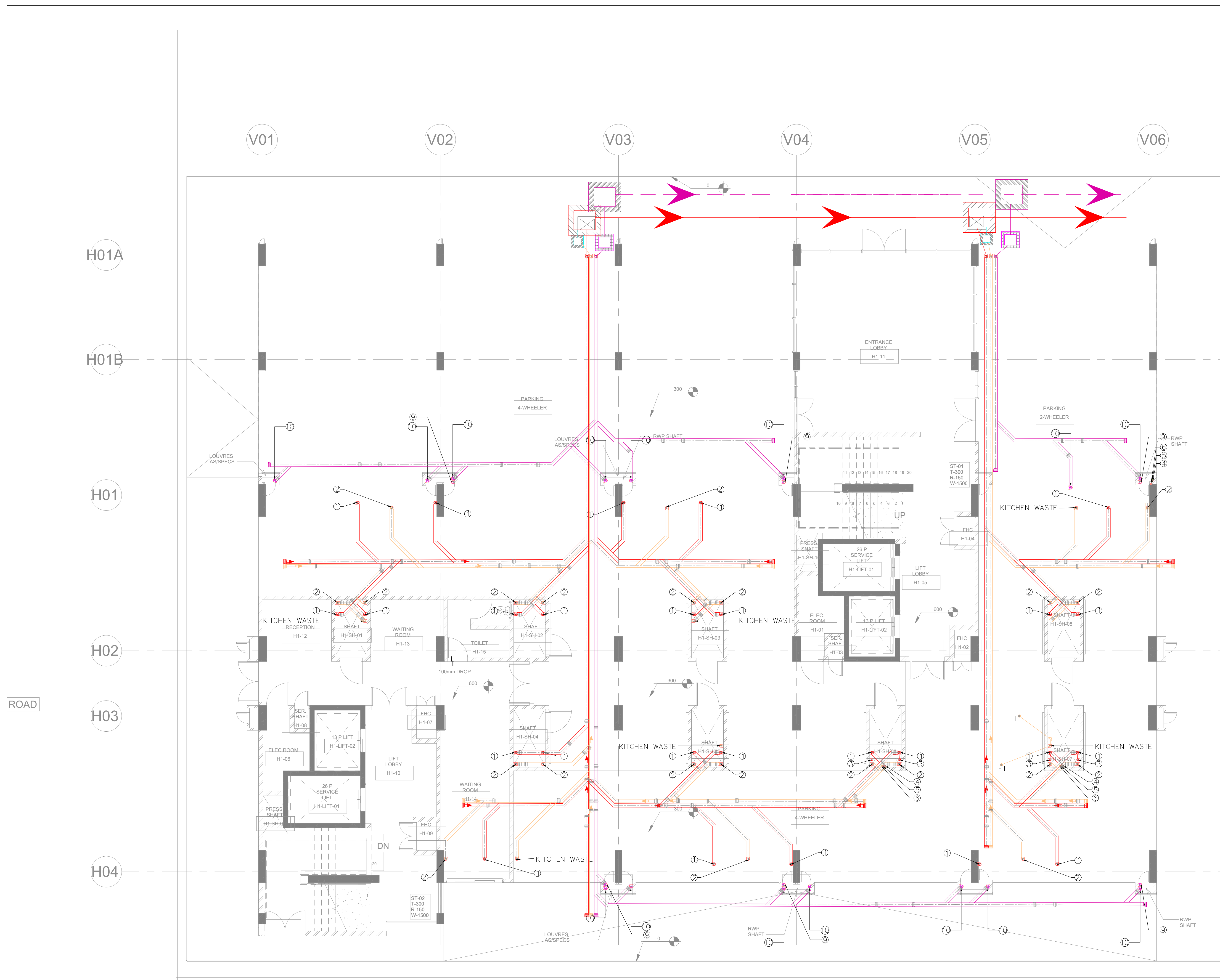
REFERENCE DRAWINGS

S.NO	REFERENCE DRAWINGS	DWG NO.	REVISION NO.	ISSUE DATE	REMARKS/IMP. NOTE
1.	ARCHITECTURE	1030A-S4-AP-002			
2.	STRUCTURE				
3.	PLUMBING				
4.	ELECTRICAL				
5.	MECHANICAL				
6.	PAINT FINISHING				

DATE	REV.	REV BY	DESCRIPTION	DATE	NOS	ISSUED TO

DATE	REV.	REV BY	DESCRIPTION	DATE	NOS	ISSUED TO

ARCHITECT SURESH GOEL AND ASSOCIATES ARCHITECTS - ENGINEERS - PLANNERS	PROJECT CODE 202210
NAME : SIGNED BY ARCHITECT	NAME : SIGNED BY ARCHITECT
NAME : SIGNED BY ARCHITECT	NAME : SIGNED BY ARCHITECT
PROJECT: GUJARAT BIOTECHNOLOGY UNIVERSITY	CLIENT :
C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL.mail@sgadesignlab.com	CHIEF ARCHITECT
BUILDING TYPE: HOUSING	CLIENT :
DRAWING TITLE: WATER SUPPLY SCHEMATIC DIAGRAM	CLIENT :
DRAWING NUMBER: 202210-GBU-S4-PL-SLD-001	CLIENT :
SHEET SIZE : A3	SHEET NO : 01



OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING	
①	100# C.I SOIL & VENT PIPE
②	100# C.I WASTE & VENT PIPE
③	75# ANTI-SYPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE
⑥	HOT WATER SUPPLY D.N TAKE PIPE
⑦	40# CWS RISER TO OHT
⑧	40# FWS RISER TO OHT
⑨	100 (OD) uPVC RAIN WATER PIPE
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D	FLOOR DRAIN (50x100 MM)
U.T	URNAL TRAP (100x100 MM)
C.I	CAST IRON
G.I	GALVANIZED IRON
F.C.O	FLOOR CLEAN OUT
C.O.P	CLEAN OUT PLUG

PLUMBING NOTE:-

- ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905
- W.C TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
- FLOOR TRAP TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
- FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100# C.I WASTE PIPE
- URNAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100# C.I SOIL PIPE
- CLEAN OUT PLUG TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
- CLEAN OUT PLUG TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
- FLOOR DRAIN TO FLOOR TRAP 50# G.I WASTE PIPE
- WASH BASIN TO FLOOR TRAP 32# G.I WASTE PIPE
- SINK TO FLOOR TRAP 40# G.I WASTE PIPE
- URNAL TO URNAL TRAP 40# G.I SOIL PIPE
- CANCELLED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
- TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004
- RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM² IS 4985-2000

RAIN WATER SCHEME

1. DESIGN PARAMETER

THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016

2. RAINWATER DISPOSAL

RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOIL/WASTE PIPE SCHEME

1. DESIGN PARAMETER

SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPES ARE TO GULLY TRAP AND THEN TO MANHOLE. MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME

1. DESIGN PARAMETER

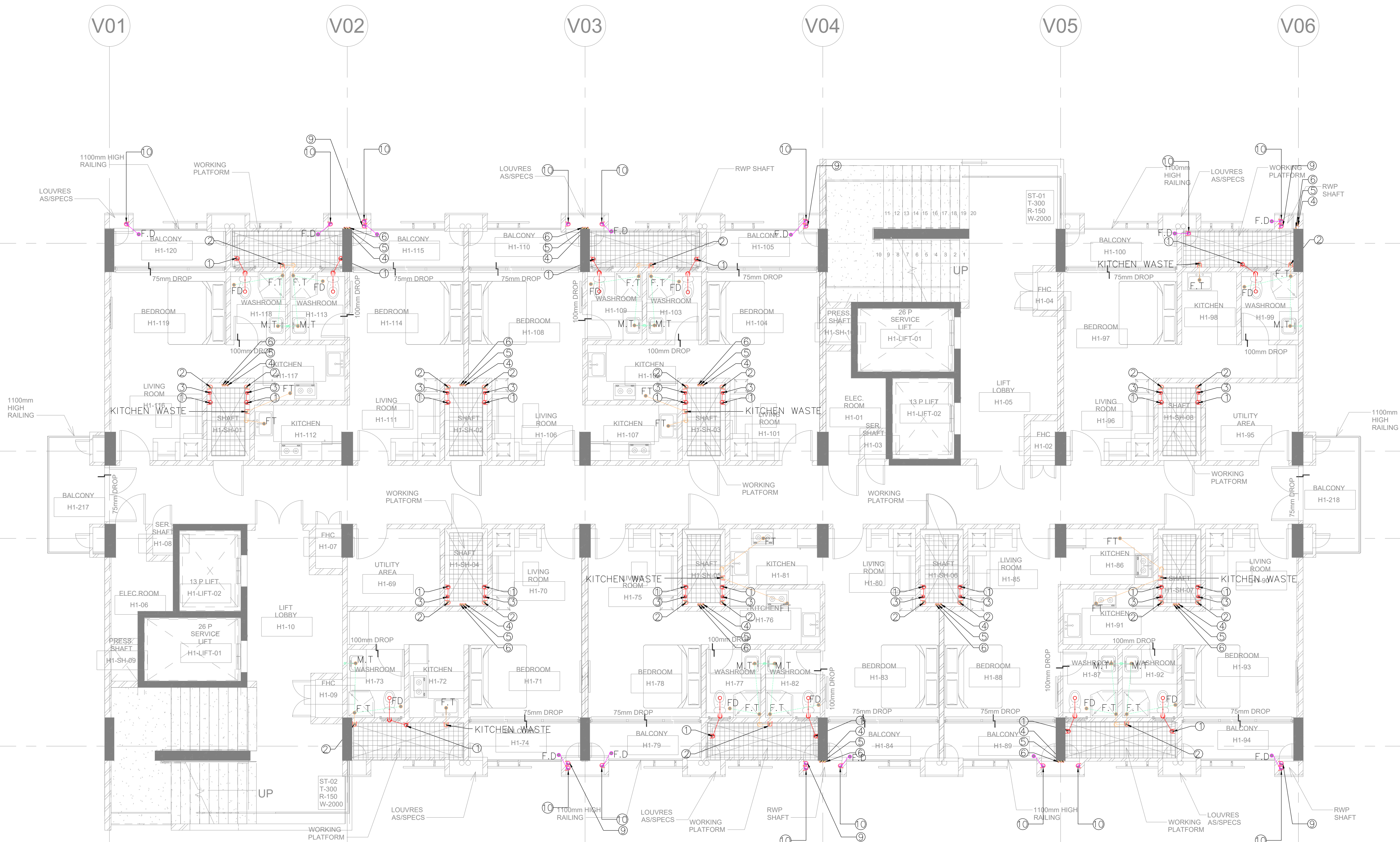
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOVED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS	
—	SEWER WATER LINE
—	STORM WATER LINE
—	WASTE WATER LINE
—	COLD WATER SUPPLY (CWS)
—	FLUSHING WATER SUPPLY (CWS)
FT	FLOOR TRAP (100X100)
FD	FLOOR DRAIN (100X50)
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)
CB	CATCH BASIN SIZE (SIZE AS PER BOQ)
DMH	DRAIN WATER MANHOLE (SIZE AS PER SPECS)

NOTE - ONLY FOR TENDER PURPOSE

DATE	REV	REV.BY	DESCRIPTION	DATE	NO	ISSUED TO
ARCHITECT						
SURESH GOEL AND ASSOCIATES						
ARCHITECTS . ENGINEERS . PLANNERS						
DWG ISSUED ON - 06-04-2024		AT - NEW DELHI		PROJECT CODE		
SIG		SIG		202210		
Name : AKS	Name : AKR	Name : AKR	BUILDING CODE			
ORIGINATED BY	CHECKED BY ENGINEER	VALIDATED BY ENGINEER	H1			
PROJECT:						
GUJARAT BIOTECHNOLOGY UNIVERSITY						
		C-85, SHIVALIK NEW DELHI-110017 TEL:01126676254,41034450 MAIL:mail@sgadesignlab.com		SANDEEP GOEL		
TENDER DWG.		BUILDING TYPE: HOSTEL		CHIEF ARCHITECT		
		DRAWING TITLE: STILT FLOOR PLAN PLUMBING LAYOUT		CLIENT :		
SCALE: 1 : 200		DRAWING NUMBER: 202210-GBU-H1-S6-PL-001		REVISION		
		SHEET SIZE : A3		SHEET NO : 01		

THIRD- EIGHTH LEVEL



SECOND LEVEL

OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING				
①	100# C.I SOIL & VENT PIPE			
②	100# C.I WASTE & VENT PIPE			
③	75# ANTI-SYPHONAGE PIPE			
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE			
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE			
⑥	HOT WATER SUPPLY D.N TAKE PIPE			
⑦	40# CWS RISER TO OHT			
⑧	40# FWS RISER TO OHT			
⑨	100 (OD) uPVC RAIN WATER PIPE			
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)			

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D	FLOOR DRAIN (50x100 MM)
U.T	URNAL TRAP (100x100 MM)
C.I	CAST IRON
G.I	GALVANIZED IRON
F.C.O	FLOOR CLEAN OUT
C.O.P	CLEAN OUT PLUG

PLUMBING NOTE:-

- ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905
- W.C TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
- FLOOR TRAP TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
- FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100# C.I WASTE PIPE
- URNAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100# C.I SOIL PIPE
- CLEAN OUT PLUG TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
- CLEAN OUT PLUG TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
- FLOOR DRAIN TO FLOOR TRAP 50# G.I WASTE PIPE
- WASH BASIN TO FLOOR TRAP 32# G.I WASTE PIPE
- SINK TO FLOOR TRAP 40# G.I WASTE PIPE
- URNAL TO URNAL TRAP 40# G.I SOIL PIPE
- CANCELLED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
- TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004
- RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM² IS 4985-2000

RAIN WATER SCHEME

1. DESIGN PARAMETER

THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016

2. RAINWATER DISPOSAL

RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOIL/WASTE PIPE SCHEME

1. DESIGN PARAMETER

SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE. MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME

1. DESIGN PARAMETER

INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOSED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS

—	SEWER WATER LINE
—	STORM WATER LINE
—	WASTE WATER LINE
—	COLD WATER SUPPLY (CWS)
—	FLUSHING WATER SUPPLY (CWS)
FT	FLOOR TRAP (100X100)
FD	FLOOR DRAIN (100X50)
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)
CB	CATCH BASIN SIZE (SIZE AS PER BOQ)
DMH	DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE				
DATE	REV	REV BY	DESCRIPTION	DATE
ARCHITECT				
SURESH GOEL AND ASSOCIATES				
ARCHITECTS . ENGINEERS . PLANNERS				
DWG ISSUED ON - 06-04-2024		AT - NEW DELHI		PROJECT CODE
SIG	SIG	SIG	SIG	202210
Name : AKS	Name : AKR	Name : AKR	Name : AKR	BUILDING CODE
ORIGINATED BY	CHECKED BY	ENGINEER	VALIDATED BY	ENGINEER
PROJECT:				
GUJARAT BIOTECHNOLOGY UNIVERSITY				
C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com				SANDEEP GOEL
TENDER DWG:				CHIEF ARCHITECT
BUILDING TYPE: HOSTEL				CLIENT :
DRAWING TITLE: FIRST FLOOR PLAN PLUMBING LAYOUT				REVISION
DRAWING NUMBER: 202210-GBU-H1-S6-PL-002				SHEET NO : 02
SCALE : 1 : 200				SHEET SIZE : A1



FIRST LEVEL

OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING	
①	100# C.I SOIL & VENT PIPE
②	100# C.I WASTE & VENT PIPE
③	75# ANTI-SYPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE
⑥	HOT WATER SUPPLY D.N TAKE PIPE
⑦	40# CWS RISER TO OHT
⑧	40# FWS RISER TO OHT
⑨	100 (OD) uPVC RAIN WATER PIPE
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D	FLOOR DRAIN (50x100 MM)
U.T	URNAL TRAP (100x100 MM)
C.I	CAST IRON
G.I	GALVANIZED IRON
F.C.O	FLOOR CLEAN OUT
C.O.P	CLEAN OUT PLUG

PLUMBING NOTE:-
• ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905
• W.C TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
• FLOOR TRAP TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
• FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100# C.I WASTE PIPE
• URINAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100# C.I SOIL PIPE
• CLEAN OUT PLUG TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
• CLEAN OUT PLUG TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
• FLOOR DRAIN TO FLOOR TRAP 50# G.I WASTE PIPE
• WASH BASIN TO FLOOR TRAP 32# G.I WASTE PIPE
• SINK TO FLOOR TRAP 40# G.I WASTE PIPE
• URINAL TO URINAL TRAP 40# G.I SOIL PIPE
• CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
• TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004
• RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM² IS 4985-2000

RAIN WATER SCHEME
1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016
2. RAINWATER DISPOSAL
THE RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOIL/WASTE PIPE SCHEME
1. DESIGN PARAMETER
SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE. MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME
1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOSED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FUTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS	
	SEWER WATER LINE
	STORM WATER LINE
	WASTE WATER LINE
	COLD WATER SUPPLY (CWS)
	FLUSHING WATER SUPPLY (CWS)
	FT FLOOR TRAP (100X100)
	FD FLOOR DRAIN (100X50)
	GT GULLY TRAP SIZE (SIZE AS PER SPECS)
	SMH SEWER MANHOLE SIZE (SIZE AS PER SPECS)
	IC INSPECTION CHAMBER (SIZE AS PER DRAWING)
	CB CATCH BASIN SIZE (SIZE AS PER BOQ)
	DMH DRAIN WATER MANHOLE (SIZE AS PER SPECS)

DATE	REV	REV BY	DESCRIPTION	DATE	NOS	ISSUED TO
ARCHITECT SURESH GOEL AND ASSOCIATES ARCHITECTS . ENGINEERS . PLANNERS						
DWG ISSUED ON - 06-04-2024			PROJECT CODE 202210			
Name : AKS			BUILDING CODE H1			
ORIGINATED BY			PROJECT: GUJARAT BIOTECHNOLOGY UNIVERSITY			
C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com			SANDEEP GOEL CHIEF ARCHITECT			
TENDER DWG.			BUILDING TYPE: HOSTEL DRAWING TITLE: SECOND FLOOR PLAN PLUMBING LAYOUT DRAWING NUMBER: 202210-GBU-H1-S6-PL-003 SHEET SIZE : A1			
SCALE : 1 : 200			REVISION SHEET NO : 03			

V01

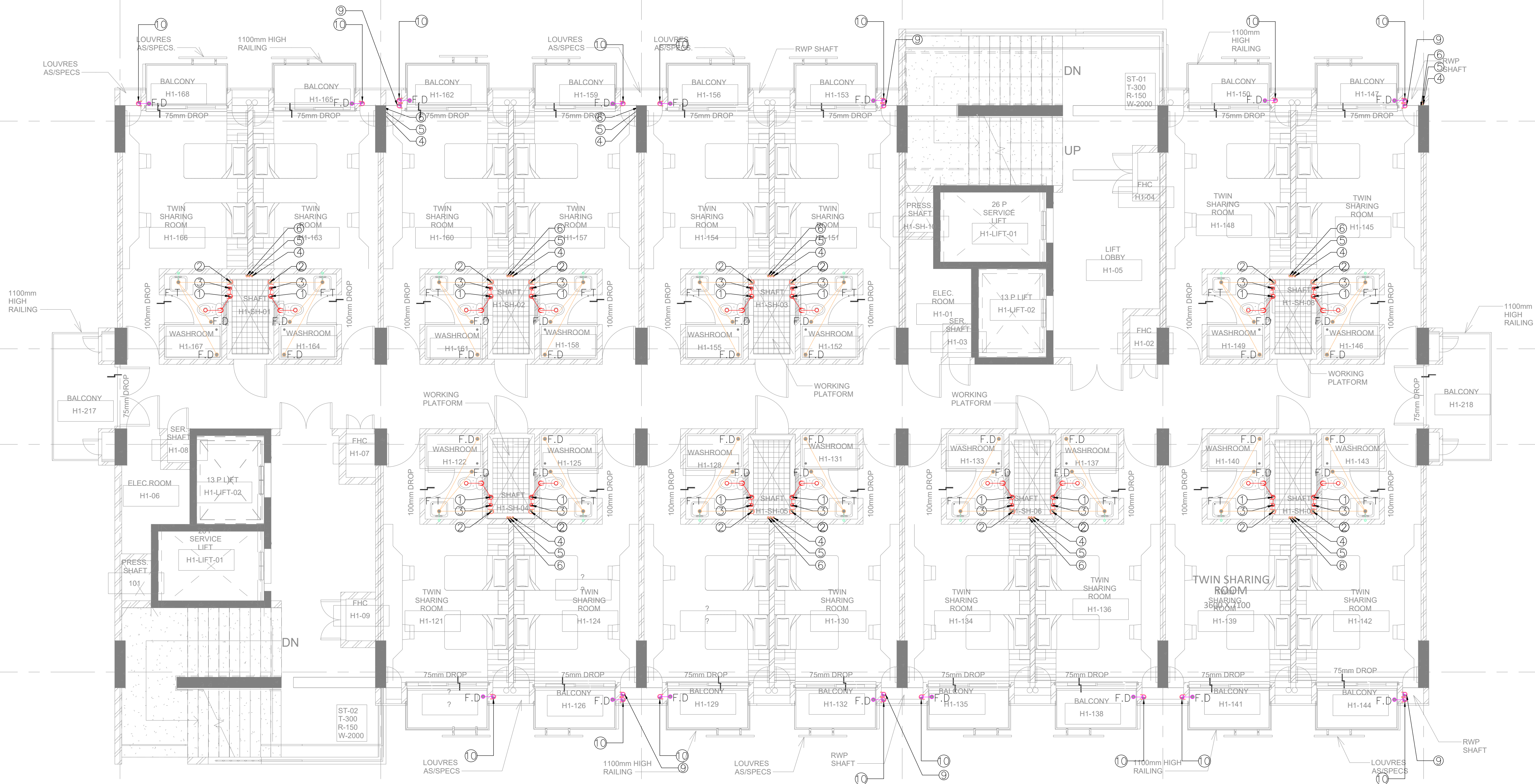
V02

V03

V04

V05

V06



THIRD- EIGHTH LEVEL

S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING	
①	1000 C.I. SOIL & VENT PIPE
②	1000 C.I. WASTE & VENT PIPE
③	750 ANTI-SYPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N. TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N. TAKE PIPE
⑥	HOT WATER SUPPLY D.N. TAKE PIPE
⑦	400 CWS RISER TO OHT
⑧	400 CWS RISER TO OHT
⑨	100 (OD) uPVC RAIN WATER PIPE
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D	FLOOR DRAIN (50x100 MM)
U.T	URNAL TRAP (100x100 MM)
C.I	CAST IRON
G.I	GALVANIZED IRON
F.C.O	FLOOR CLEAN OUT
C.O.P	CLEAN OUT PLUG

PLUMBING NOTE:-

- ALL SOIL, WASTE & VENT PIPES SHALL BE C.I. HUBLESS PIPES IS : 15905
- W.C TO VERTICAL SOIL STACK 1000 C.I. SOIL PIPE
- FLOOR TRAP TO VERTICAL WASTE STACK 1000 C.I. WASTE PIPE
- FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 1000 C.I. WASTE PIPE
- URNAL TRAP TO MAIN HORIZONTAL SOIL PIPE 1000 C.I. SOIL PIPE
- CLEAN OUT PLUG TO VERTICAL WASTE STACK 1000 C.I. WASTE PIPE
- CLEAN OUT PLUG TO VERTICAL SOIL STACK 1000 C.I. SOIL PIPE
- FLOOR DRAIN TO FLOOR TRAP 500 G.I. WASTE PIPE
- WASH BASIN TO FLOOR TRAP 320 G.I. WASTE PIPE
- SINK TO FLOOR TRAP 400 G.I. WASTE PIPE
- URNAL TO URINAL TRAP 400 G.I. SOIL PIPE
- CANCELLED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
- TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I. CLASS-B IS 1239:PART1:2004
- RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM² IS 4985-2000

RAIN WATER SCHEME

1. DESIGN PARAMETER

THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016

2. RAINWATER DISPOSAL

RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOIL/WASTE PIPE SCHEME

1. DESIGN PARAMETER

SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE. MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME

1. DESIGN PARAMETER

INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOSED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FLOOR LEVELS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS	
—	SEWER WATER LINE
—	STORM WATER LINE
—	WASTE WATER LINE
—	COLD WATER SUPPLY (CWS)
—	FLUSHING WATER SUPPLY (CWS)
FT	FLOOR TRAP (100X100)
FD	FLOOR DRAIN (100X50)
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)
CB	CATCH BASIN SIZE (SIZE AS PER BOQ)
DMH	DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE			
DATE	REV	REV BY	DESCRIPTION
DATE	NO	ISSUED TO	

ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON - 06-04-2024	AT - NEW DELHI	PROJECT CODE
SIG	SIG	202210

Name : AKS	Name : AKR	Name : AKR	BUILDING CODE
ORIGINATED BY	CHECKED BY ENGINEER	VALIDATED BY ENGINEER	H1

PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com	SANDEEP GOEL CHIEF ARCHITECT CLIENT :
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TENDER DWG:	BUILDING TYPE: HOSTEL DRAWING TITLE: THIRD FLOOR PLAN PLUMBING LAYOUT DRAWING NUMBER: 202210-GBU-H1-S6-PL-004 REVISION
SCALE : 1 : 200	SHEET SIZE : A1 SHEET NO : 04

S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING	
①	100# C.I. SOIL & VENT PIPE
②	100# C.I. WASTE & VENT PIPE
③	75# ANTI-SYPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE
⑥	HOT WATER SUPPLY D.N TAKE PIPE
⑦	40# CWS RISER TO OHT
⑧	40# FWS RISER TO OHT
⑨	100 (OD) uPVC RAIN WATER PIPE
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D	FLOOR DRAIN (50x100 MM)
U.T	URNAL TRAP (100x100 MM)
C.I	CAST IRON
G.I	GALVANIZED IRON
F.C.O	FLOOR CLEAN OUT
C.O.P	CLEAN OUT PLUG

- PLUMBING NOTE:-
- ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905
 - W.C TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
 - FLOOR TRAP TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
 - FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100# C.I WASTE PIPE
 - URINAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100# C.I SOIL PIPE
 - CLEAN OUT PLUG TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
 - CLEAN OUT PLUG TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
 - FLOOR DRAIN TO FLOOR TRAP 50# G.I WASTE PIPE
 - WASH BASIN TO FLOOR TRAP 32# G.I WASTE PIPE
 - SINK TO FLOOR TRAP 40# G.I WASTE PIPE
 - URINAL TO URINAL TRAP 40# G.I SOIL PIPE
 - CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
 - TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART-1:2004
 - RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM² IS 4985-2000

- RAIN WATER SCHEME
1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016
2. RAINWATER DISPOSAL
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

- SOIL/WASTE PIPE SCHEME
1. DESIGN PARAMETER
SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

- INTERNAL WATER SUPPLY PIPE SCHEME
1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOSED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS	
	SEWER WATER LINE
	STORM WATER LINE
	WASTE WATER LINE
	COLD WATER SUPPLY (CWS)
	FLUSHING WATER SUPPLY (CWS)
	FT FLOOR TRAP (100X100)
	FD FLOOR DRAIN (100X50)
	GT GULLY TRAP SIZE (SIZE AS PER SPECS)
	SMH SEWER MANHOLE SIZE (SIZE AS PER SPECS)
	IC INSPECTION CHAMBER (SIZE AS PER DRAWING)
	CB CATCH BASIN SIZE (SIZE AS PER BOQ)
	DMH DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE

DATE	REV	REV BY	DESCRIPTION	DATE	NO	ISSUED TO
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ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON - 06-04-2024 AT - NEW DELHI PROJECT CODE
S/G S/G 202210

Name : AKS Name : AKR Name : AKR BUILDING CODE
ORIGINATED BY CHECKED BY ENGINEER VALIDATED BY ENGINEER H1

PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com SANDEEP GOEL CHIEF ARCHITECT

TENDER DWG. CLIENT :

BUILDING TYPE:
HOSTEL
DRAWING TITLE:
9TH & 14TH FLOOR PLAN
PLUMBING LAYOUT
DRAWING NUMBER:
202210-GBU-H1-S6-PL-005 REVISION
SCALE: 1 : 200 SHEET SIZE : A1 SHEET NO : 05

NINTH- FOURTEENTH LEVEL

S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING	
①	100# C.I SOIL & VENT PIPE
②	100# C.I WASTE & VENT PIPE
③	75# ANTI-SYPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE
⑥	HOT WATER SUPPLY D.N TAKE PIPE
⑦	40# CWS RISER TO OHT
⑧	40# FWS RISER TO OHT
⑨	100 (OD) uPVC RAIN WATER PIPE
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)

CWS	COLD WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D	FLOOR DRAIN (50x100 MM)
U.T	URNAL TRAP (100x100 MM)
C.I	CAST IRON
G.I	GALVANIZED IRON
F.C.O	FLOOR CLEAN OUT
C.O.P	CLEAN OUT PLUG

PLUMBING NOTE:-

- ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905
- W.C TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
- FLOOR TRAP TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
- FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100# C.I WASTE PIPE
- URNAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100# C.I SOIL PIPE
- CLEAN OUT PLUG TO VERTICAL WASTE STACK 100# C.I WASTE PIPE
- CLEAN OUT PLUG TO VERTICAL SOIL STACK 100# C.I SOIL PIPE
- FLOOR DRAIN TO FLOOR TRAP 50# G.I WASTE PIPE
- WASH BASIN TO FLOOR TRAP 32# G.I WASTE PIPE
- SINK TO FLOOR TRAP 40# G.I WASTE PIPE
- URNAL TO URNAL TRAP 40# G.I SOIL PIPE
- CANCELLED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
- TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004
- RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM² IS 4985-2000

RAIN WATER SCHEME

1. DESIGN PARAMETER

THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016

2. RAINWATER DISPOSAL

RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOIL/WASTE PIPE SCHEME

1. DESIGN PARAMETER

SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE. MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME

1. DESIGN PARAMETER

INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOVED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS	
—	SEWER WATER LINE
—	STORM WATER LINE
—	WASTE WATER LINE
—	COLD WATER SUPPLY (CWS)
—	FLUSHING WATER SUPPLY (CWS)
FT	FLOOR TRAP (100X100)
FD	FLOOR DRAIN (100X50)
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)
CB	CATCH BASIN SIZE (SIZE AS PER BOQ)
DMH	DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE

DATE	REV	REV.BY	DESCRIPTION	DATE	NOS	ISSUED TO
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ARCHITECT
SURESH GOEL AND ASSOCIATES
ARCHITECTS . ENGINEERS . PLANNERS

DWG ISSUED ON - 06-04-2024 AT - NEW DELHI PROJECT CODE
SIG SIG SIG 202210

Name : AKS Name : AKR Name : AKR BUILDING CODE
ORIGINATED BY CHECKED BY ENGINEER VALIDATED BY ENGINEER H1

PROJECT:
GUJARAT BIOTECHNOLOGY UNIVERSITY

C-85, SHIVALIK
NEW DELHI-110017
TEL(011)26676254,41034450
MAIL:mail@sgadesignlab.com

SANDEEP GOEL
CHIEF ARCHITECT
CLIENT :

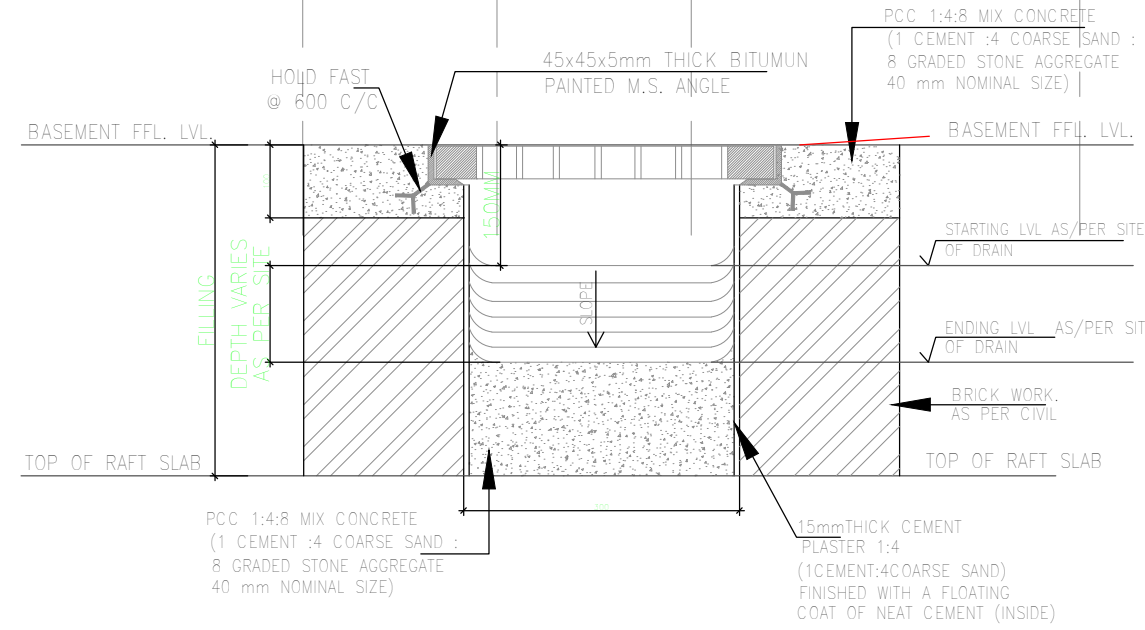
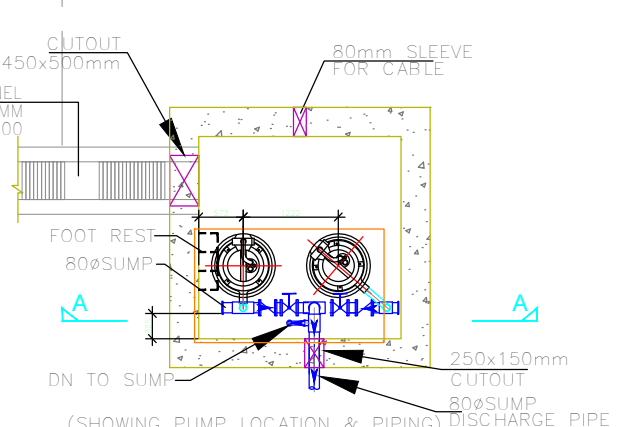
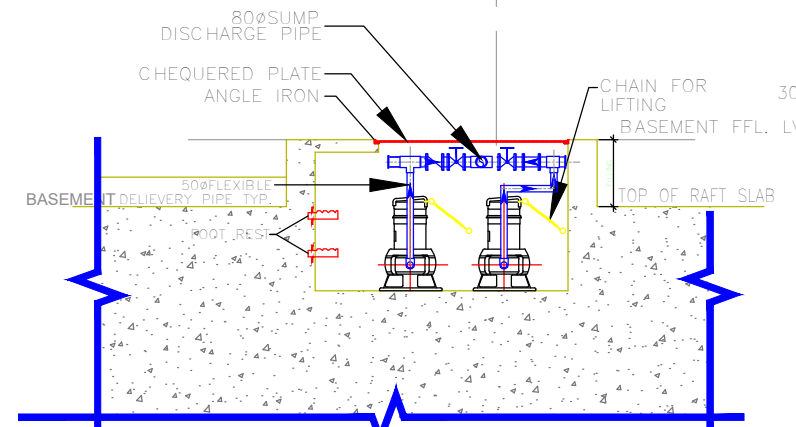
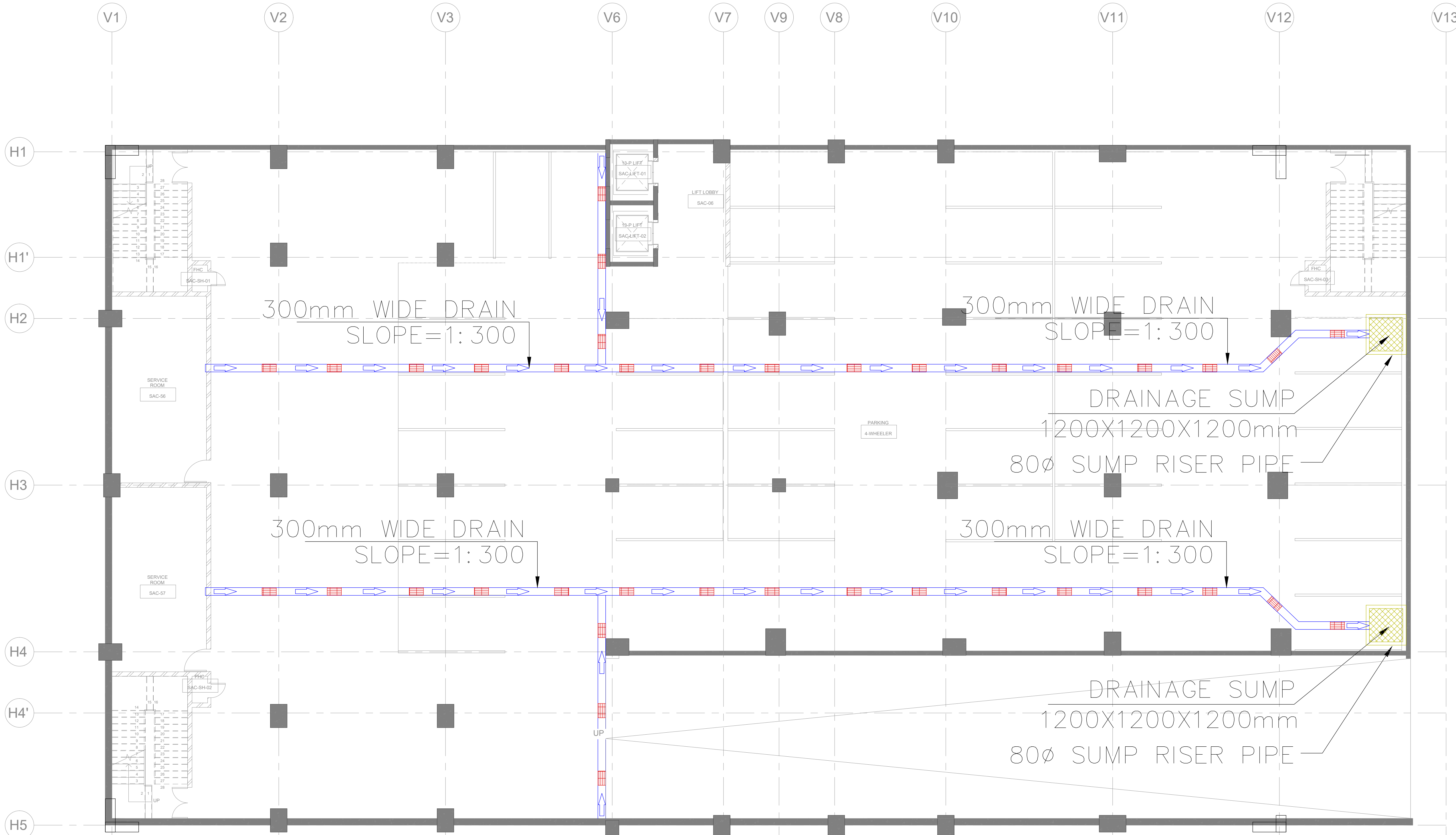
TENDER DWG:

BUILDING TYPE:
HOSTEL
DRAWING TITLE:
TERRACE FLOOR PLAN PLUMBING LAYOUT









DRAWING NUMBER:
202210-GBU-H1-S6-PL-006

REVISION

SCALE: 1 : 200 SHEET SIZE : A1 SHEET NO : 06

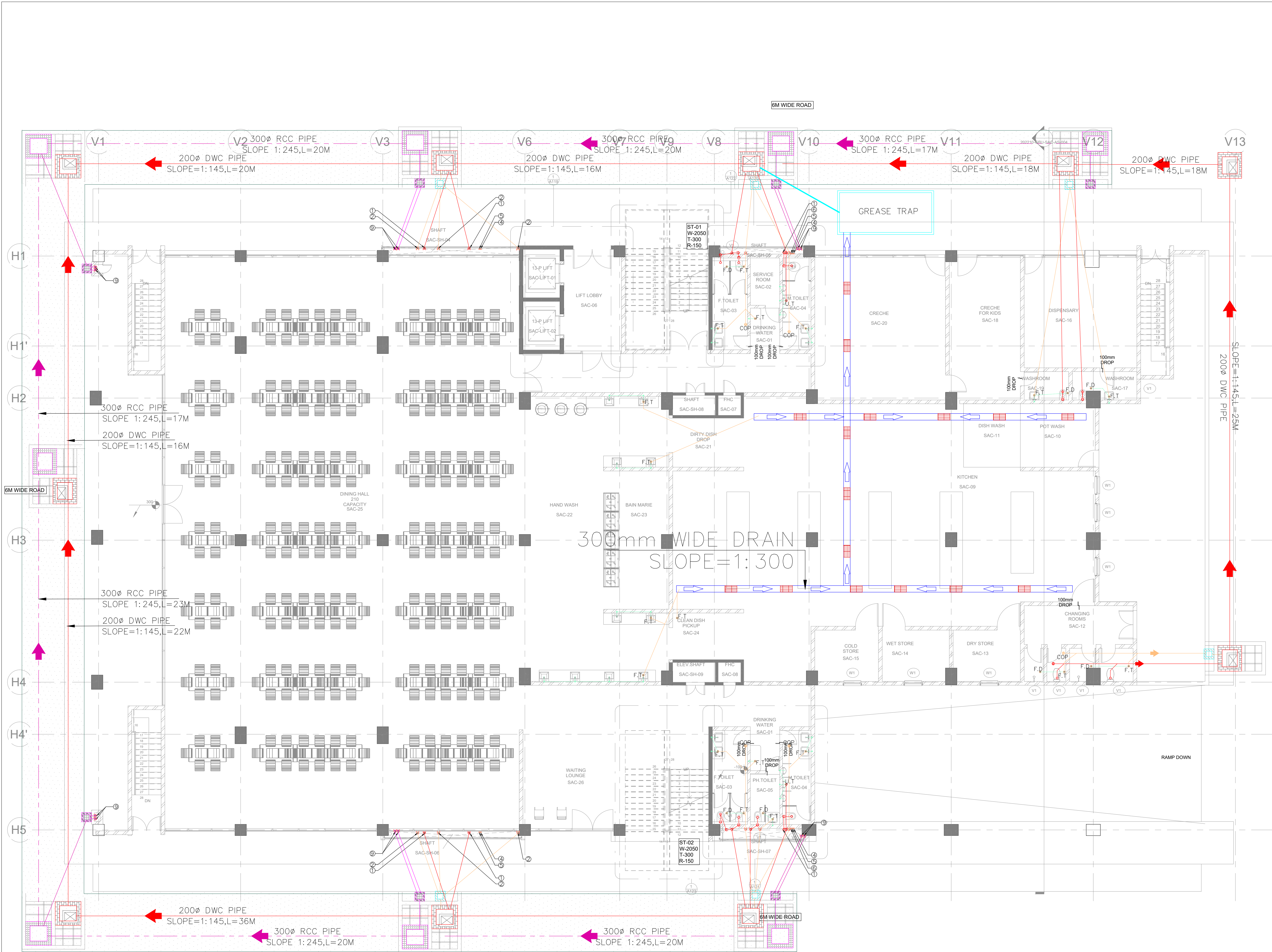


TYPICAL SECTION OF DRAIN CHANNEL
SCALE=N.T.S.

OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MCC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S
LEGEND FOR PLUMBING				
①	100ø C.I SOIL & VENT PIPE			
②	100ø C.I WASTE & VENT PIPE			
③	75ø ANTI-SYPHONAGE PIPE			
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE			
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE			
⑥				
⑦	40ø CWS RISER TO QHT			
⑧	40ø FWS RISER TO QHT			
⑨	100 (OD) uPVC RAIN WATER PIPE			
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)			
CWS COLD WATER SUPPLY				
FWS FLUSHING WATER SUPPLY				
HWR HOT WATER RETURN				
HWS HOT WATER SUPPLY				
F.D FLOOR DRAIN (50x100 MM)				
U.T URINAL TRAP (100x100 MM)				
C.I CAST IRON				
G.I GALVANIZED IRON				
F.C.O FLOOR CLEAN OUT				
C.O.P CLEAN OUT PLUG				
PLUMBING NOTE:-				
• ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905				
• W.C TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE				
• FLOOR TRAP TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE				
• FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100ø C.I WASTE PIPE				
• URINAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100ø C.I SOIL PIPE				
• CLEAN OUT PLUS TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE				
• CLEAN OUT PLUS TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE				
• FLOOR DRAIN TO FLOOR TRAP 50ø G.I WASTE PIPE				
• WASH BASIN TO FLOOR TRAP 32ø G.I WASTE PIPE				
• SINK TO FLOOR TRAP 40ø G.I WASTE PIPE				
• URINAL TO URINAL TRAP 40ø G.I SOIL PIPE				
• CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007				
• TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004				
• RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM ² IS 4985-2000				
RAIN WATER SCHEME				
1. DESIGN PARAMETER				
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016				
2. RAINWATER DISPOSAL				
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK				
SOIL/WASTE PIPE SCHEME				
1. DESIGN PARAMETER				
SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER				
INTERNAL WATER SUPPLY PIPE SCHEME				
1. DESIGN PARAMETER				
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROVIDED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECIDED BASED ON PRESSURE AND MAINTENANCE. REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.				
PLUMBING LEGENDS				
 SEWER WATER LINE				
 STORM WATER LINE				
 WASTE WATER LINE				
 COLD WATER SUPPLY (CWS)				
 FLUSHING WATER SUPPLY (CWS)				
FT FLOOR TRAP (100X100)				
FD FLOOR DRAIN (100X50)				
GT GULLY TRAP SIZE (SIZE AS PER SPECS)				
SMH SEWER MANHOLE SIZE (SIZE AS PER SPECS)				
 IC INSPECTION CHAMBER (SIZE AS PER DRAWING)				
 CB CATCH BASIN SIZE (SIZE AS PER BOG)				
 DMH DRAIN WATER MANHOLE (SIZE AS PER SPECS)				



NOTE - ONLY FOR TENDER PURPOSE				
DATE	REV	REV BY	DESCRIPTION	DATE NOS ISSUED TO
ARCHITECT				
SURESH GOEL AND ASSOCIATES				
ARCHITECTS . ENGINEERS . PLANNERS				
DWG ISSUED ON	22/08/2023		AT- NEW DELHI	PROJECT CODE
SIG	SIG		15008	
NAME : AKS	NAME : AKR	NAME : AKR	BUILDING CODE	
ORIGINATED BY	CHECKED BY	VALIDATED BY	ENGINEER	
PROJECT:				
GUJARAT BIOTECHNOLOGY UNIVERSITY				
C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com			SANDEEP GOEL	
TENDER DWG.			CHIEF ARCHITECT	
N			CLIENT :	
W			BUILDING TYPE:	
S			SAC BLOCK	
E			DRAWING TITLE:	
D			BASEMENT FLOOR PLUMBING LAYOUT	
DRAWING NUMBER:			202210-GBU-S5-PL-001	
SCALE: 1 : 300		SHEET SIZE : A1		SHEET NO : 01



S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING

①	100ø C.I. SOIL & VENT PIPE
②	100ø C.I. WASTE & VENT PIPE
③	75ø ANTI-SYPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE
⑥	
⑦	40ø CWS RISER TO OHT
⑧	40ø FWS RISER TO OHT
⑨	100 (OD) uPVC RAIN WATER PIPE
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)

CWS COLD WATER SUPPLY
FWS FLUSHING WATER SUPPLY
HWR HOT WATER RETURN
HWS HOT WATER SUPPLY
F.D FLOOR DRAIN (50x100 MM)
U.T URINAL TRAP (100x100 MM)
C.I CAST IRON
G.I GALVANIZED IRON
F.C.O FLOOR CLEAN OUT
C.O.P CLEAN OUT PLUG

PLUMBING NOTE:-
• ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905
• W.C TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE
• FLOOR TRAP TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE
• FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100ø C.I WASTE PIPE
• URINAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100ø C.I SOIL PIPE
• CLEAN OUT PLUS TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE
• CLEAN OUT PLUS TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE
• FLOOR DRAIN TO FLOOR TRAP 50ø G.I WASTE PIPE
• WASH BASIN TO FLOOR TRAP 32ø G.I WASTE PIPE
• SINK TO FLOOR TRAP 40ø G.I WASTE PIPE
• URINAL TO URINAL TRAP 40ø G.I SOIL PIPE
• CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
• TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004
• RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM² IS 4985-2000

RAIN WATER SCHEME
1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016
2. RAINWATER DISPOSAL
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOIL/WASTE PIPE SCHEME
1. DESIGN PARAMETER
SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

INTERNAL WATER SUPPLY PIPE SCHEME
1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOSED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECDED BASED ON PRESSURE AND MAINTENANCE. REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

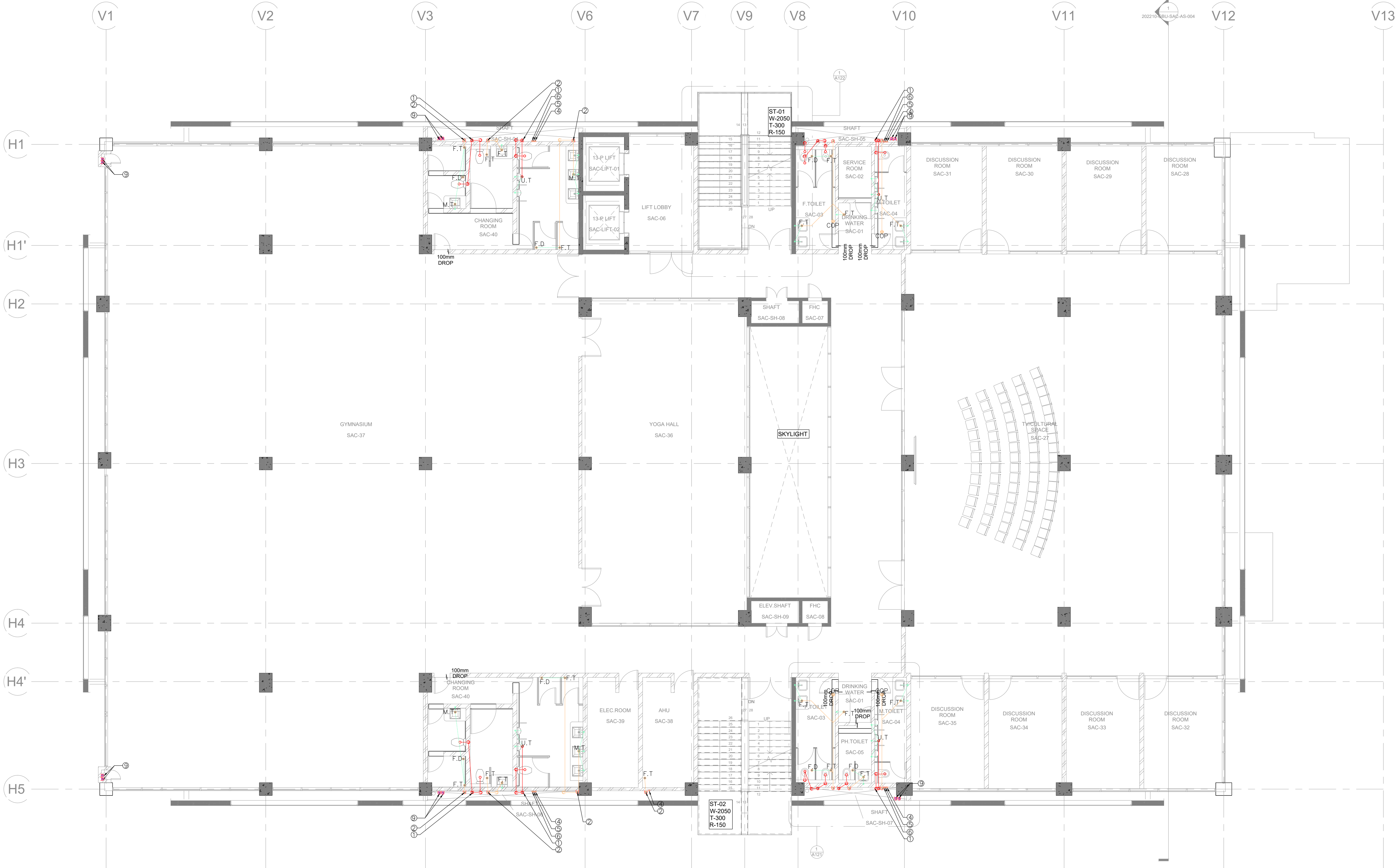
PLUMBING LEGENDS

—	SEWER WATER LINE
—	STORM WATER LINE
—	WASTE WATER LINE
—	COLD WATER SUPPLY (CWS)
—	FLUSHING WATER SUPPLY (CWS)
FT	FLOOR TRAP (100X100)
FD	FLOOR DRAIN (100X50)
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)
CB	CATCH BASIN SIZE (SIZE AS PER BOG)
DWH	DRAIN WATER MANHOLE (SIZE AS PER SPECS)



NOTE - ONLY FOR TENDER PURPOSE

DATE	REV.	REV BY	DESCRIPTION	DATE	NOS	ISSUED TO
ARCHITECT SURESH GOEL AND ASSOCIATES ARCHITECTS . ENGINEERS . PLANNERS						
DWG ISSUED ON	22/08/2023	AT- NEW DELHI	PROJECT CODE 15008			
SIG	SIG	SIG	BUILDING CODE			
NAME : AKS	NAME : AKR	NAME : AKR	BUILDING CODE			
ORIGINATED BY	CHECKED BY ENGINEER	VALIDATED BY ENGINEER				
PROJECT: GUJARAT BIOTECHNOLOGY UNIVERSITY						
C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com			SANDEEP GOEL CHIEF ARCHITECT			
TENDER DWG.			CLIENT :			
BUILDING TYPE: SAC BLOCK			DRAWING TITLE: GROUND FLOOR PLUMBING LAYOUT			
DRAWING NUMBER: 202210-GBU-S5-PL-002			SHEET NO : 02			
SCALE: 1 : 300			SHEET SIZE : A1			



OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S
LEGEND FOR PLUMBING				
①	100ø C.I SOIL & VENT PIPE			
②	100ø C.I WASTE & VENT PIPE			
③	75ø ANTI-SYPHONAGE PIPE			
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE			
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE			
⑥				
⑦	40ø CWS RISER TO OHT			
⑧	40ø FWS RISER TO OHT			
⑨	100 (OD) uPVC RAIN WATER PIPE			
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)			
CWS	COLD WATER SUPPLY			
FWS	FLUSHING WATER SUPPLY			
HWR	HOT WATER RETURN			
HWS	HOT WATER SUPPLY			
F.D	FLOOR DRAIN (50x100 MM)			
U.T	URINAL TRAP (100x100 MM)			
C.I	CAST IRON			
G.I	GALVANIZED IRON			
F.C.O	FLOOR CLEAN OUT			
C.O.P	CLEAN OUT PLUG			
PLUMBING NOTE:-				
* ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905				
* W.C TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE				
* FLOOR TRAP TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE				
* FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100ø C.I WASTE PIPE				
* URINAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100ø C.I SOIL PIPE				
* CLEAN OUT PLUG TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE				
* CLEAN OUT PLUG TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE				
* FLOOR DRAIN TO FLOOR TRAP 50ø G.I WASTE PIPE				
* WASH BASIN TO FLOOR TRAP 32ø G.I WASTE PIPE				
* SINK TO FLOOR TRAP 40ø G.I WASTE PIPE				
* URINAL TO URINAL TRAP 40ø G.I SOIL PIPE				
* CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007				
* TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004				
* RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM ² IS 4985-2000				
RAIN WATER SCHEME				
1. DESIGN PARAMETER				
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016				
2. RAINWATER DISPOSAL				
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK				
SOIL/WASTE PIPE SCHEME				
1. DESIGN PARAMETER				
SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER				
INTERNAL WATER SUPPLY PIPE SCHEME				
1. DESIGN PARAMETER				
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROVIDED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECDED BASED ON PRESSURE AND MAINTENANCE. REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.				
PLUMBING LEGENDS				
SEWER WATER LINE				
STORM WATER LINE				
WASTE WATER LINE				
COLD WATER SUPPLY (CWS)				
FLUSHING WATER SUPPLY (CWS)				
FT	FLOOR TRAP (100X100)			
FD	FLOOR DRAIN (100X50)			
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)			
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)			
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)			
CB	CATCH BASIN SIZE (SIZE AS PER BOQ)			
DMH	DRAIN WATER MANHOLE (SIZE AS PER SPECS)			


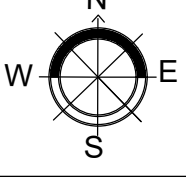


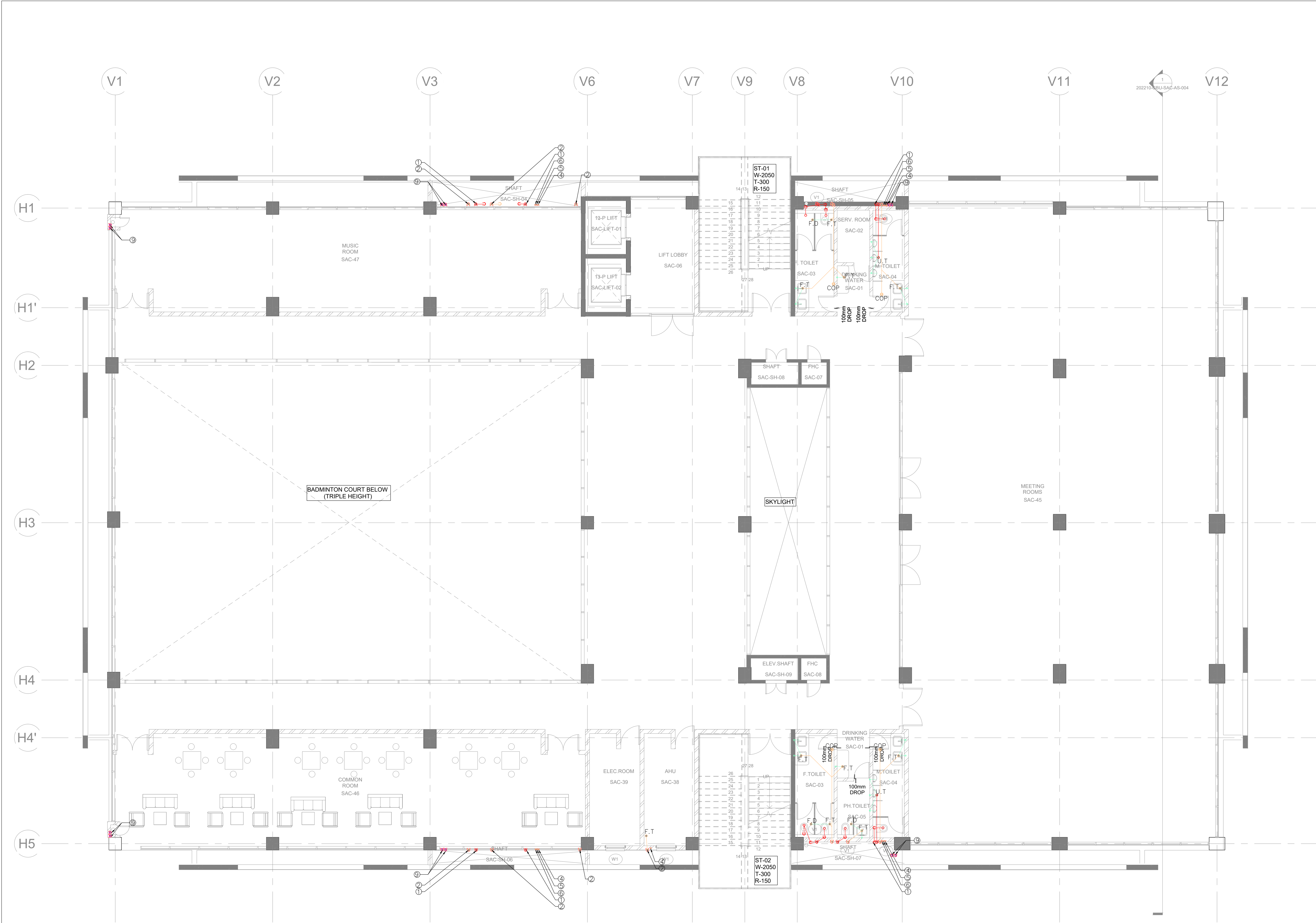
NOTE - ONLY FOR TENDER PURPOSE				
DATE	REV.	REV.BY	DESCRIPTION	DATE NOS ISSUED TO
ARCHITECT				
SURESH GOEL AND ASSOCIATES				
ARCHITECTS . ENGINEERS . PLANNERS				
DWG ISSUED ON	22/08/2023	AT- NEW DELHI	PROJECT CODE	
SIG	SIG	SIG	15008	
NAME : AKS	NAME : AKR	NAME : AKR	BUILDING CODE	
ORIGINATED BY	CHECKED BY	ENGINEER	VALIDATED BY	ENGINEER
PROJECT:				
GUJARAT BIOTECHNOLOGY UNIVERSITY				
C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com			SANDEEP GOEL	
TENDER DWG.			CHIEF ARCHITECT	
CLIENT :				
BUILDING TYPE:			SAC BLOCK	
DRAWING TITLE:			FIRST FLOOR PLUMBING LAYOUT	
DRAWING NUMBER:			202210-GBU-S5-PL-003	
SCALE: 1 : 300			SHEET SIZE : A1	
			SHEET NO : 03	



OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S
LEGEND FOR PLUMBING				
①	100ø C.I. SOIL & VENT PIPE			
②	100ø C.I. WASTE & VENT PIPE			
③	75ø ANTI-SYPHONAGE PIPE			
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE			
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE			
⑥				
⑦	40ø CWS RISER TO OHT			
⑧	40ø FWS RISER TO OHT			
⑨	100 (OD) uPVC RAIN WATER PIPE			
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)			
CWS	COLD WATER SUPPLY			
FWS	FLUSHING WATER SUPPLY			
HWR	HOT WATER RETURN			
HWS	HOT WATER SUPPLY			
F.D	FLOOR DRAIN (50x100 MM)			
U.T	URINAL TRAP (100x100 MM)			
C.I	CAST IRON			
G.I	GALVANIZED IRON			
F.C.O	FLOOR CLEAN OUT			
C.O.P	CLEAN OUT PLUG			
PLUMBING NOTE:-				
* ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905				
* W.C TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE				
* FLOOR TRAP TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE				
* URINAL TRAP TO MAIN HORIZONTAL WASTE PIPE 100ø C.I WASTE PIPE				
* CLEAN OUT PLUG TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE				
* CLEAN OUT PLUG TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE				
* FLOOR DRAIN TO FLOOR TRAP 50ø G.I WASTE PIPE				
* WASH BASIN TO FLOOR TRAP 32ø G.I WASTE PIPE				
* SINK TO FLOOR TRAP 40ø G.I WASTE PIPE				
* URINAL TO URINAL TRAP 40ø G.I SOIL PIPE				
* CONCEALLED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007				
* TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004				
* RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM ² IS 4985-2000				
RAIN WATER SCHEME				
1. DESIGN PARAMETER				
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016				
2. RAINWATER DISPOSAL				
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK				
SOIL/WASTE PIPE SCHEME				
1. DESIGN PARAMETER				
SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER				
INTERNAL WATER SUPPLY PIPE SCHEME				
1. DESIGN PARAMETER				
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROVIDED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECDED BASED ON PRESSURE AND MAINTENANCE. REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.				
PLUMBING LEGENDS				
SEWER WATER LINE				
STORM WATER LINE				
WASTE WATER LINE				
COLD WATER SUPPLY (CWS)				
FLUSHING WATER SUPPLY (CWS)				
FT	FLOOR TRAP (100X100)			
FD	FLOOR DRAIN (100X50)			
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)			
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)			
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)			
CB	CATCH BASIN SIZE (SIZE AS PER BOQ)			
DMH	DRAIN WATER MANHOLE (SIZE AS PER SPECS)			



NOTE - ONLY FOR TENDER PURPOSE				
DATE	REV	REV BY	DESCRIPTION	DATE NOS ISSUED TO
ARCHITECT SURESH GOEL AND ASSOCIATES ARCHITECTS . ENGINEERS . PLANNERS				
DWG ISSUED ON	22/08/2023		AT- NEW DELHI	PROJECT CODE 15008
SIG	SIG		SIG	
NAME : AKS	NAME : AKR		NAME : AKR	
ORIGINATED BY		CHECKED BY ENGINEER	VALIDATED BY ENGINEER	
PROJECT: GUJARAT BIOTECHNOLOGY UNIVERSITY				
 C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com				SANDEEP GOEL CHIEF ARCHITECT
TENDER DWG.				CLIENT :
				BUILDING TYPE: SAC BLOCK DRAWING TITLE: SECOND FLOOR PLUMBING LAYOUT DRAWING NUMBER: 202210-GBU-S5-PL-004
SCALE: 1 : 300		SHEET SIZE : A1		SHEET NO : 04



OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S

LEGEND FOR PLUMBING

①	100ø C.I. SOIL & VENT PIPE
②	100ø C.I. WASTE & VENT PIPE
③	75ø ANTI-SYPHONAGE PIPE
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE
⑥	
⑦	40ø CWS RISER TO OHT
⑧	40ø FWS RISER TO OHT
⑨	100 (OD) uPVC RAIN WATER PIPE
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)

CWS COLD WATER SUPPLY
FWS FLUSHING WATER SUPPLY
HWR HOT WATER RETURN
HWS HOT WATER SUPPLY
F.D FLOOR DRAIN (50x100 MM)
U.T URINAL TRAP (100x100 MM)
C.I CAST IRON
G.I GALVANIZED IRON
F.C.O FLOOR CLEAN OUT
C.O.P CLEAN OUT PLUG

PLUMBING NOTE:-
• ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905
• W.C TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE
• FLOOR TRAP TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE
• FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100ø C.I WASTE PIPE
• URINAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100ø C.I SOIL PIPE
• CLEAN OUT PLUS TO VERTICAL WASTE STACK 100ø C.I WASTE PIPE
• CLEAN OUT PLUS TO VERTICAL SOIL STACK 100ø C.I SOIL PIPE
• FLOOR DRAIN TO FLOOR TRAP 50ø G.I WASTE PIPE
• WASH BASIN TO FLOOR TRAP 32ø G.I WASTE PIPE
• SINK TO FLOOR TRAP 40ø G.I WASTE PIPE
• URINAL TO URINAL TRAP 40ø G.I SOIL PIPE
• CONCELLED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007
• TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004
• RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM² IS 4985-2000

RAIN WATER SCHEME
1. DESIGN PARAMETER
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016
2. RAINWATER DISPOSAL
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK

SOIL/WASTE PIPE SCHEME
1. DESIGN PARAMETER
SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER

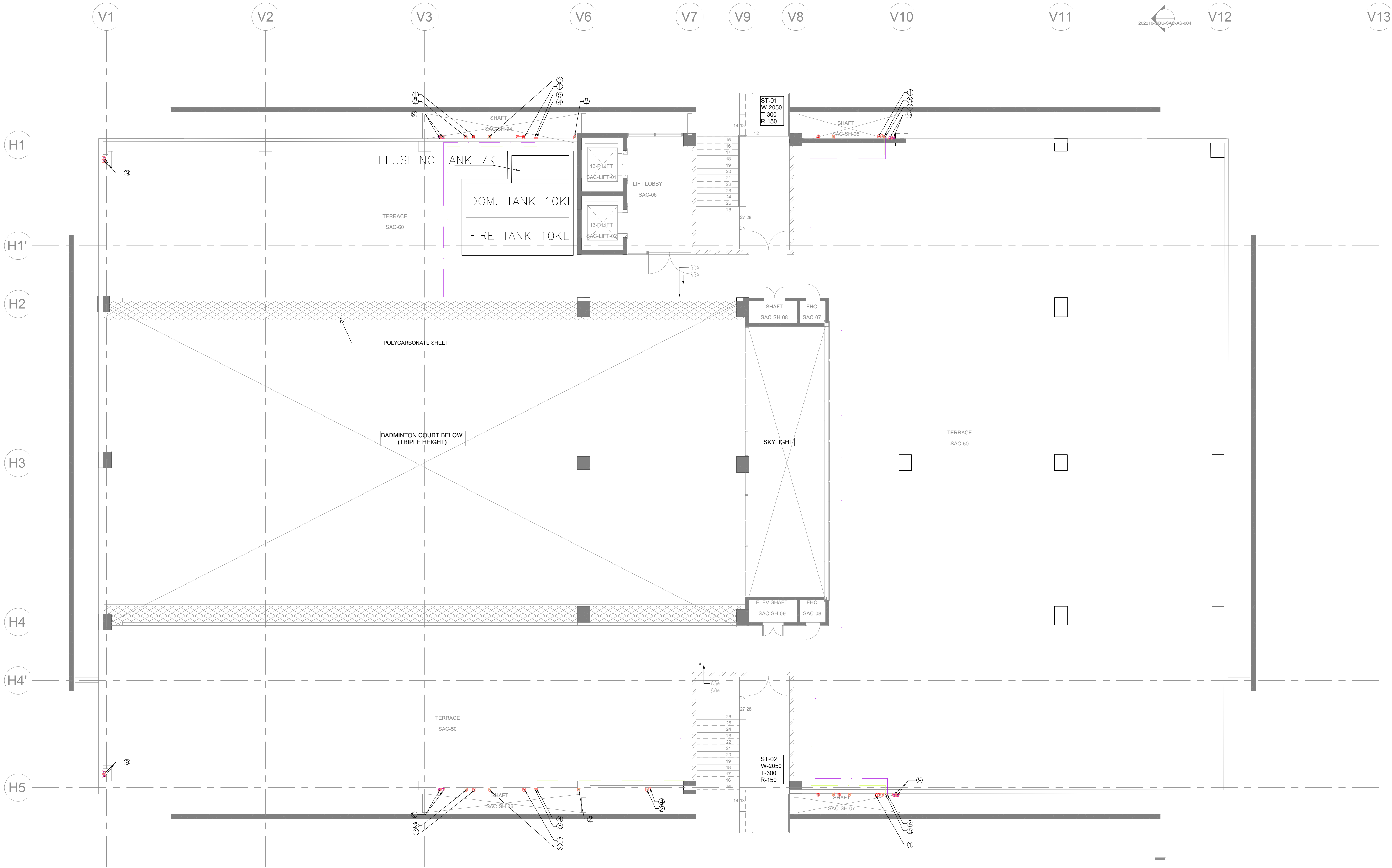
INTERNAL WATER SUPPLY PIPE SCHEME
1. DESIGN PARAMETER
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROPOVIDED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DEODED BASED ON PRESSURE AND MAINTENANCE. REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.

PLUMBING LEGENDS

—	SEWER WATER LINE
—	STORM WATER LINE
—	WASTE WATER LINE
—	COLD WATER SUPPLY (CWS)
—	FLUSHING WATER SUPPLY (CWS)
FT	FLOOR TRAP (100X100)
FD	FLOOR DRAIN (100X50)
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)
CB	CATCH BASIN SIZE (SIZE AS PER BOQ)
DMH	DRAIN WATER MANHOLE (SIZE AS PER SPECS)


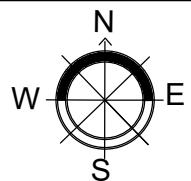
NOTE - ONLY FOR TENDER PURPOSE

DATE	REV	REV BY	DESCRIPTION	DATE	NOS	ISSUED TO
ARCHITECT SURESH GOEL AND ASSOCIATES ARCHITECTS . ENGINEERS . PLANNERS						
DWG ISSUED ON	22/08/2023		AT- NEW DELHI	PROJECT CODE		
SIG	SIG		SIG	15008		
NAME : AKS	NAME : AKR	NAME : AKR	BUILDING CODE			
ORIGINATED BY	CHECKED BY	ENGINEER	VALIDATED BY	ENGINEER		
PROJECT: GUJARAT BIOTECHNOLOGY UNIVERSITY						
C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com				SANDEEP GOEL CHIEF ARCHITECT		
TENDER DWG.				CLIENT :		
N W E S				BUILDING TYPE: SAC BLOCK DRAWING TITLE: THIRD FLOOR PLUMBING LAYOUT DRAWING NUMBER: 202210-GBU-S5-PL-005		
SCALE: 1 : 300				SHEET SIZE : A1		SHEET NO : 05



OVERHEAD WATER TANK				
S.NO	DESCRIPTION	VOLUME	TANK NO	MOC
1	FIRE TANK	25 CUM	1	RCC
2	DOMESTIC TANK	10 CUM	2	RCC
3	FLUSHING TANK	5 CUM	3	RCC
4	SOLAR TANK	1.5 CUM	4	S.S
LEGEND FOR PLUMBING				
①	100ø C.I. SOIL & VENT PIPE			
②	100ø C.I. WASTE & VENT PIPE			
③	75ø ANTI-SYPHONAGE PIPE			
④	DOMESTIC WATER SUPPLY D.N TAKE PIPE			
⑤	FLUSHING WATER SUPPLY D.N TAKE PIPE			
⑥				
⑦	40ø CWS RISER TO OHT			
⑧	40ø FWS RISER TO OHT			
⑨	100 (OD) uPVC RAIN WATER PIPE			
⑩	75 (OD) uPVC RAIN WATER PIPE (FOR BALCONY)			
PLUMBING NOTE:-				
• ALL SOIL,WASTE & VENT PIPES SHALL BE C.I HUBLESS PIPES IS : 15905				
• W.C TO VERTICAL SOIL STACK 100ø C.I. SOIL PIPE				
• FLOOR TRAP TO VERTICAL WASTE STACK 100ø C.I. WASTE PIPE				
• FLOOR TRAP TO MAIN HORIZONTAL WASTE PIPE 100ø C.I. WASTE PIPE				
• URINAL TRAP TO MAIN HORIZONTAL SOIL PIPE 100ø C.I. SOIL PIPE				
• CLEAN OUT PLUG TO VERTICAL WASTE STACK 100ø C.I. WASTE PIPE				
• CLEAN OUT PLUG TO VERTICAL SOIL STACK 100ø C.I. SOIL PIPE				
• FLOOR DRAIN TO FLOOR TRAP 50ø G.I WASTE PIPE				
• WASH BASIN TO FLOOR TRAP 32ø G.I WASTE PIPE				
• SINK TO FLOOR TRAP 40ø G.I WASTE PIPE				
• URINAL TO URINAL TRAP 40ø G.I SOIL PIPE				
• CONCEALED WATER SUPPLY SHALL BE CPVC PIPES OF SDR-11 IS 15778:2007				
• TERRACE AND SHAFT WATER SUPPLY SHALL BE G.I CLASS-B IS 1239:PART1:2004				
RAIN WATER PIPE AT ROOF TOP SHALL BE PROPOSED 6KG/CM ² IS 4985-2000				
RAIN WATER SCHEME				
1. DESIGN PARAMETER				
THE RAIN WATER DOWN PIPE SIZING COULD BE DESIGNED BY MAKING USE OF NBC-2016				
2. RAINWATER DISPOSAL				
RAIN WATER FROM ROOF AREA WILL BE COLLECTED TO THE NEARBY RAIN WATER CHAMBER BY MEANS OF RAINWATER DOWN TAKE PIPES. FROM THESE CHAMBER, THE COLLECTED ROOF WATER IS FURTHER DRAINED TO THE PROPOSED RAIN WATER HARVESTING PIT/TANK				
SOIL/WASTE PIPE SCHEME				
1. DESIGN PARAMETER				
SOIL PIPES PROPOSED TO BE CONNECTED TO MANHOLE AND WASTE PIPE ARE TO GULLY TRAP AND THEN TO MANHOLE . MINIMUM DIAMETER OF SOIL AND WASTE PIPE IS MINIMUM 100 MM AND ANTI-SYPHONAGE PIPE WITH 75 MM DIAMETER				
INTERNAL WATER SUPPLY PIPE SCHEME				
1. DESIGN PARAMETER				
INTERNAL WATER SUPPLY FOR BUILDING SHALL BE PROVIDED WITH SEPARATE LINE FOR DOMESTIC AND FLUSHING. NUMBER OF DOWN TAKE SHALL BE DECDED BASED ON PRESSURE AND MAINTENANCE. REQUIREMENT AND PIPE SIZE ARE DESIGNED BASED ON EFFECTIVE FIXTURE UNITS. VALVES ARE PROVIDED AT EACH FLOOR LEVEL FOR MAINTENANCE.				
PLUMBING LEGENDS				
SEWER WATER LINE				
STORM WATER LINE				
WASTE WATER LINE				
COLD WATER SUPPLY (CWS)				
FLUSHING WATER SUPPLY (CWS)				
FT	FLOOR TRAP (100X100)			
FD	FLOOR DRAIN (100X50)			
GT	GULLY TRAP SIZE (SIZE AS PER SPECS)			
SMH	SEWER MANHOLE SIZE (SIZE AS PER SPECS)			
IC	INSPECTION CHAMBER (SIZE AS PER DRAWING)			
CB	CATCH BASIN SIZE (SIZE AS PER BOQ)			
DMH	DRAIN WATER MANHOLE (SIZE AS PER SPECS)			



NOTE - ONLY FOR TENDER PURPOSE				
DATE	REV.	REV. BY	DESCRIPTION	DATE NOS ISSUED TO
ARCHITECT				
SURESH GOEL AND ASSOCIATES				
ARCHITECTS . ENGINEERS . PLANNERS				
DWG ISSUED ON		22/08/2023	AT- NEW DELHI	PROJECT CODE
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GUJARAT BIOTECHNOLOGY UNIVERSITY				
 C-85, SHIVALIK NEW DELHI-110017 TEL(011)26676254,41034450 MAIL:mail@sgadesignlab.com				SANDEEP GOEL CHIEF ARCHITECT
TENDER DWG.				CLIENT :
				
BUILDING TYPE: SAC BLOCK				
DRAWING TITLE: TERRACE PLUMBING LAYOUT				
DRAWING NUMBER: 202210-GBU-S5-PL-006				
SCALE: 1 : 300	SHEET SIZE : A1		SHEET NO : 06	