# SYMBOL CHART - ITEMS TO BE USED ON SITE

| | | | | | |
|---|---|---|---|---|---|
| 01 | | 50MMØ C.W.S. / 20MMØ UPVC PIPE (COLD WATER) - BLUE | 15 | | KITCHEN SINK |
| 02 | | 20MMØ CPVC PIPE (HOT WATER) - RED | 16 | | R.O. WATER PURIFIER |
| 03 | | UNDERGROUND COLD WATER MAIN (DASHED) | 17 | | GULLY TRAP |
| 04 | | 110MMØ S.W.P. (SOIL) - GREEN | 18 | | CLEANOUT (RODDING EYE) |
| 05 | | 110MMØ W.W.P. (WASTE WATER) - CYAN | 19 | | INSPECTION CHAMBER 450 x 450 |
| 06 | | 110MMØ R.W.P. (RAIN WATER) - LIGHT BLUE | 20 | | R.W.P. AT COLUMN |
| 07 | | UNDERGROUND DRAIN LINE (DASHED) | 21 | | SEPTIC TANK |
| 08 | | STOP VALVE | 22 | | SOAK PIT / HARVESTING PIT |
| 09 | | 50MMØ C.W.S. RISER (IN DUCT) | 23 | | UG WATER TANK |
| 10 | | DUCT / BOX AT COLUMN: STACK + RISER | 24 | | OVERHEAD TANKS (OHT) |
| 11 | | W.C. (WESTERN) WITH CISTERN | 25 | P | TRANSFER PUMP |
| 12 | | WASH BASIN | 26 | | BORE WELL |
| 13 | | NAHANI TRAP / FLOOR DRAIN | 27 | | O.T.S. - OPEN TO SKY |
| 14 | | GEYSER (WALL MOUNTED) | 28 | | COLUMN (CLIENT MODEL) |

# SYMBOL CHART & LEGEND


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Architects and Interior Designers Landscape
Designer & 3D Modeling Services
Block - A , 301-302 Corporate house Opposite Lemon
Tree Hotel, RNT Marg, Indore, Madhya Pradesh 452001
0731-6803999


Client Name : Mr. Sanjay
Project Type : Residential
Date : Oct 20, 2026
Sheet No. : **D-01**

NOTE:

1. Symbols are the MMH sample (Sample Drainage.dwg) symbols.
2. Pipe colours and 0.30 mm line weight as per MMH procedure.
3. Pipe names on drawings follow the sample sheet.

E
N S
W

SYMBOL CHART & LEGEND

| REV | DATE | DESCRIPTION |
|---|---|---|
| R1 | 20-10-2026 | Final - client model PDF |

PREPARED: MEP / DRAINAGE CHECKED: -

**STATUS: FOR REVIEW - NOT FOR CONSTRUCTION**

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)


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# GENERAL NOTES

1. Pipe colours and line weight: cold water blue (UPVC), hot water red (CPVC), S.W.P. green, W.W.P. cyan, R.W.P. light blue; all drain pipes 110 mm PVC; 0.30 mm line weight.

2. Water supply: main 50 mm (2"), rising main 32 mm, OHT inlet 25 mm with float valve, branch 20 mm (3/4"). Cold UPVC, hot CPVC.

3. Soil, waste and rain stacks stand vertical in a 1'-6" box at a column (outside the back wall for toilet 1, at the lobby column for the shared stack B, in the drawn duct for toilet 4) and are aligned on every floor.

4. The waste water pipe (basin + nahani trap) joins the soil line outside the washroom wall. One sewer, one septic tank. No chamber inside the house.

5. The nahani trap (floor drain) is placed in the shower corner - never in the middle of the floor. Floor slopes to the trap.

6. Every trap keeps a 50 mm water seal. Every stack vent goes 3'-0" above the terrace with a cowl.

7. Slope of horizontal drain pipe: 50 mm and smaller 1/4" per foot; 75 mm to 150 mm 1/8" per foot; 200 mm and larger 1/16" per foot.

8. All supply lines run in the wall chase or above the ceiling, kept 18" clear of windows. Fit a stop valve at the foot of each riser. Pressure test before closing the chase.

9. Water-test or smoke-test all drain lines before back-filling. Fit a cleanout at every stack base and every change of direction.

10. Vastu: septic tank NW, underground tank NE, overhead tank SW. Compass is the client model compass: north LEFT, east TOP, road WEST (bottom).

11. Fixture positions, columns and orientation are taken from the client model. Add-ons by MEP: geyser, nahani trap, boxes / risers, R.O. connection, gully traps, floor drains and R.W.P.

12. Municipal sewer is available at the road: the septic outlet joins it through one inspection chamber (IC-S) outside the plot. Soak pit dropped.

13. Dimensions in inches unless marked mm. Verify all dimensions at site; report any difference to the architect.

## SLOPE IN PIPE

| S.N. | PIPE DIAMETER | MINIMUM SLOPE | RATIO |
|---|---|---|---|
| 1. | 50 MM OR SMALLER | 1/4" PER FOOT | ( 1:50 ) |
| 2. | 75 MM TO 150 MM | 1/8" PER FOOT | ( 1:100 ) |
| 3. | 200 MM OR LARGER | 1/16" PER FOOT | ( 1:250 ) |

## PIPE SPECIFICATION & COLOUR CODE

| PIPE | COLOUR | SIZE | MATERIAL |
|---|---|---|---|
| COLD WATER MAIN / RISER | BLUE | 50 MMØ | UPVC |
| COLD WATER BRANCH | BLUE | 20 MMØ | UPVC |
| HOT WATER BRANCH | RED | 20 MMØ | CPVC |
| SOIL PIPE (S.W.P.) | GREEN | 110 MMØ | PVC |
| WASTE WATER (W.W.P.) | CYAN | 110 MMØ | PVC |
| RAIN WATER (R.W.P.) | LIGHT BLUE | 110 MMØ | PVC |
| NOMENCLATURE / TAGS | MAGENTA | - | - |

## DRAWING INDEX


| SHEET | TITLE | SCALE |
|---|---|---|
| D-01 | SYMBOL CHART & LEGEND | - |
| D-02 | GENERAL NOTES, PIPE SPECIFICATION, SLOPE TABLE & INDEX | - |
| D-03 | WATER SUPPLY AND DRAINAGE FLOW DIAGRAMS | NTS |
| D-04 | GROUND FLOOR WATER SUPPLY (COLD + HOT) | 1:70 |
| D-05 | FIRST FLOOR WATER SUPPLY (COLD + HOT) | 1:70 |
| D-06 | TERRACE WATER SUPPLY (OHT, RISING MAIN, RISERS) | 1:70 |
| D-07 | GROUND FLOOR & SITE DRAINAGE | 1:70 |
| D-08 | FIRST FLOOR DRAINAGE | 1:70 |
| D-09 | TERRACE DRAIN WATER & STACK VENTS | 1:70 |
| D-10 | SITE SERVICES LAYOUT & VASTU | 1:70 |
| D-11 | TOILETS ENLARGED - WATER SUPPLY | 1:35 |
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| D-13 | TOILET SECTIONS - W.C., SHOWER WALL, WASH BASIN | 1:25 |
| D-14 | DUCT STACK SECTION & NAHANI TRAP DETAIL | 1:40 / 1:5 |
| D-15 | WATER SUPPLY RISER DIAGRAM & TOILET ISOMETRIC | NTS |
| D-16 | DRAINAGE RISER DIAGRAM & TOILET ISOMETRIC | NTS |
| D-17 | SEPTIC TANK - PLAN & SECTION | 1:30 |
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| D-19 | TRENCH, CHAMBER & UG TANK DETAILS | 1:24-1:30 |
| D-20 | FIXTURE & PIPE SCHEDULE | - |


# GENERAL NOTES, SPECIFICATIONS & INDEX

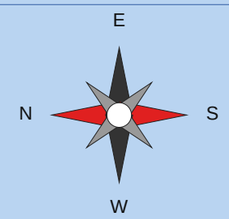

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0731-6803999


Client Name : Mr. Sanjay
Project Type : Residential
Date : Oct 20, 2026
Sheet No. : **D-02**

NOTE:

1. Read these notes with every sheet.
2. Sheet D-13 / D-14 give the toilet sections for the plumber.




GENERAL NOTES, SPECIFICATIONS & INDEX

| REV | DATE | DESCRIPTION |
|---|---|---|
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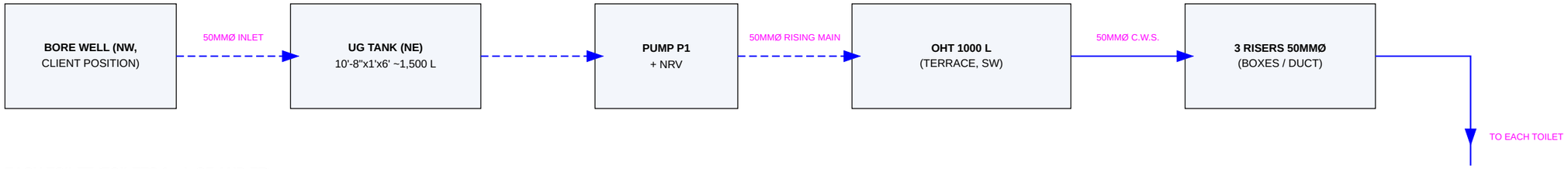
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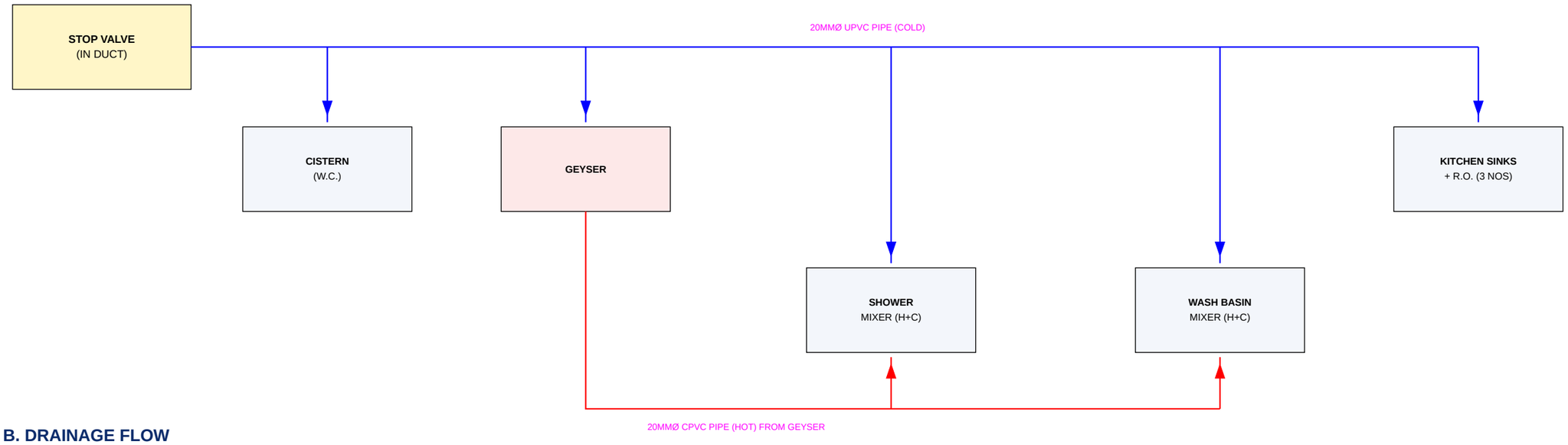
LINE WT. 0.30 mm (PIPES)


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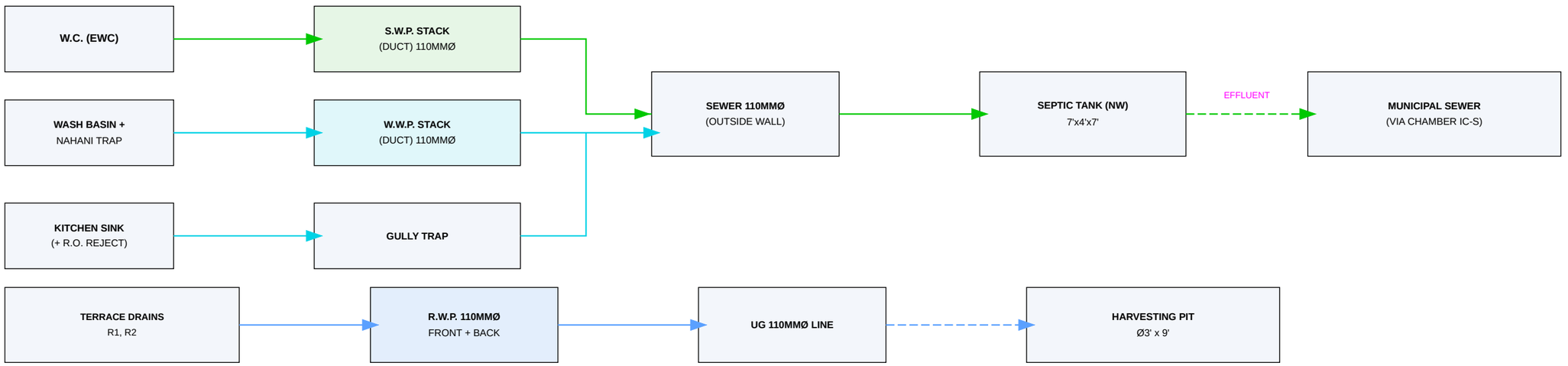
## A. WATER SUPPLY FLOW




### EACH TOILET (TOILETS 1 - 4, GF AND FF)




## B. DRAINAGE FLOW




# FLOW DIAGRAMS

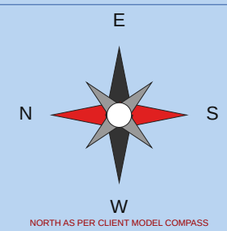

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| | |
|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-03** |

NOTE:

1. Follow the arrows. Blue = cold, red = hot, green = soil, cyan = waste, light blue = rain.
2. Sizes and names are the same as on the plan sheets.




NORTH AS PER CLIENT MODEL COMPASS

WATER SUPPLY & DRAINAGE FLOW DIAGRAMS

| REV | DATE | DESCRIPTION |
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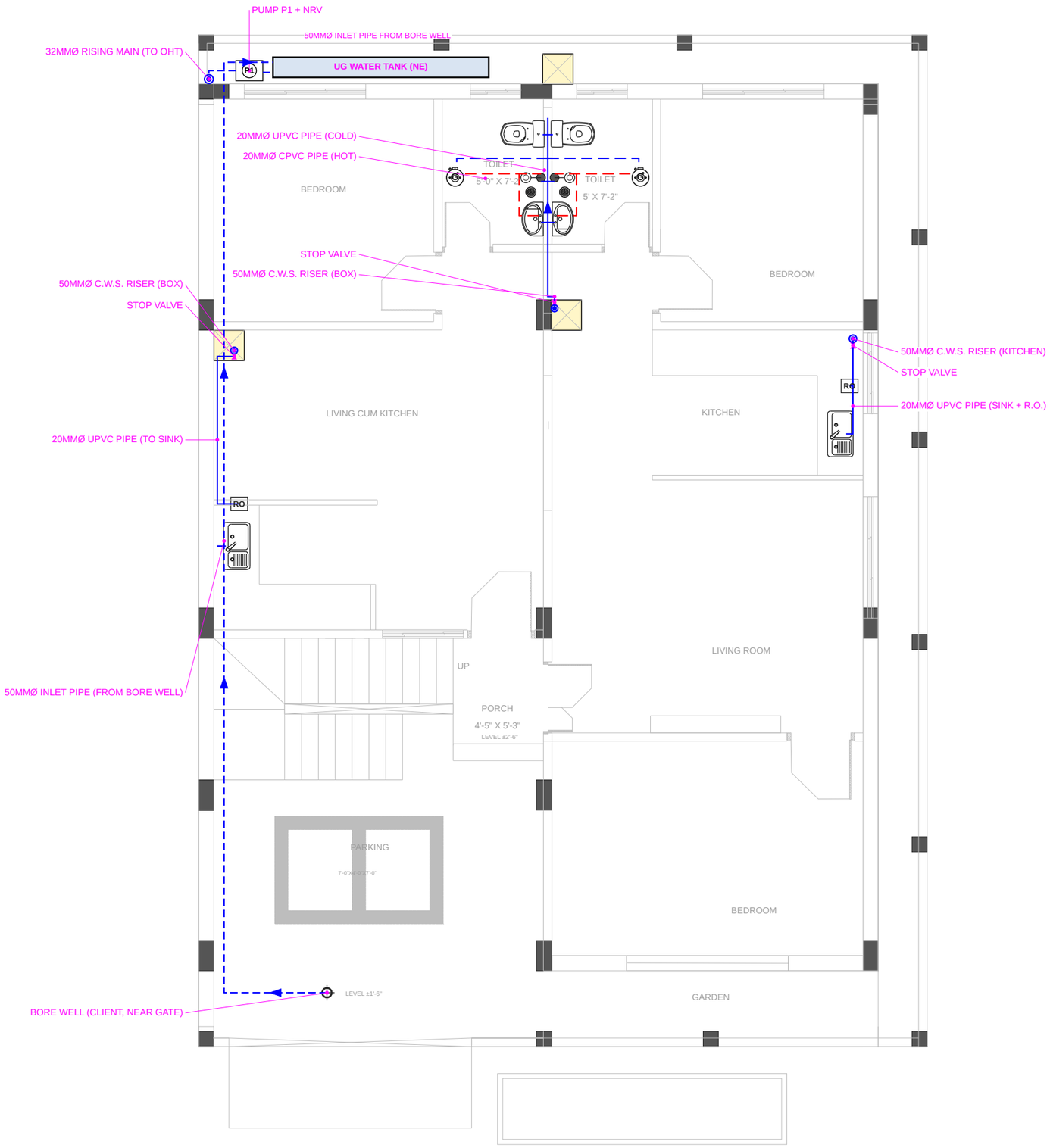
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# GROUND FLOOR WATER SUPPLY

SCALE 1:70 (ENLARGED TOILETS: SEE D-11)

## LEGEND & PLUMBER KEY

- 50MMØ C.W.S. (MAIN / RISER) - UPVC
- 20MMØ UPVC PIPE (COLD BRANCH)
- 20MMØ CPVC PIPE (HOT, DASHED = CEILING RUN)
- STOP VALVE (ACCESSIBLE)
- 50MMØ C.W.S. RISER (IN DUCT / BOX)
- DUCT: S.W.P. + RISER
- GEYSER (WALL MOUNTED)
- W.C. WESTERN TYPE + CISTERN
- WASH BASIN
- NAHANI TRAP (SHOWER CORNER)
- KITCHEN SINK
- R.O. WATER PURIFIER
- COLUMN (CLIENT MODEL)

## FLOW (FOLLOW THE ARROWS)

1. SOURCE: BORE WELL -> 50MMØ INLET PIPE (UG) -> UG TANK (NE) -> PUMP P1 -> 32MMØ RISING MAIN -> OHT (SW).
2. COLD: OHT (TERRACE, SW) -> 50MMØ C.W.S. MAIN -> RISERS IN BOXES AT COLUMNS -> STOP VALVE -> 20MMØ UPVC PIPE -> CISTERN, BASIN, GEYSER, MIXER.
3. HOT: COLD INTO GEYSER -> 20MMØ CPVC PIPE -> MIXER AND WASH BASIN.

## NOTES FOR PLUMBER

- Blue = cold water (UPVC), red = hot water (CPVC). Never swap them at the mixer / basin.
- Toilets 1 and 2 hang on one wet wall (the central wall chase). Risers stand in the boxes at the columns.
- Fit one stop valve at the foot of every riser, accessible. Pressure-test before the chase is closed.
- Dashed pipe on plan runs in the ceiling; solid pipe runs in the wall chase. Keep 18" clear of windows.
- OHT inlet, rising main and R.W.P. never stand on a window.

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| | |
|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-04** |

NOTE:

1. Blue = cold, red = hot, line weight 0.30 mm. Toilets, columns and fixtures as client model.
2. Geyser and nahani trap added in every washroom.
3. Enlarged toilets: D-11. Sections: D-13, D-14. Risers: D-15.
4. North = sheet LEFT, east = TOP, road = WEST (client compass).




NORTH AS PER CLIENT MODEL COMPASS

GROUND FLOOR WATER SUPPLY

| REV | DATE | DESCRIPTION |
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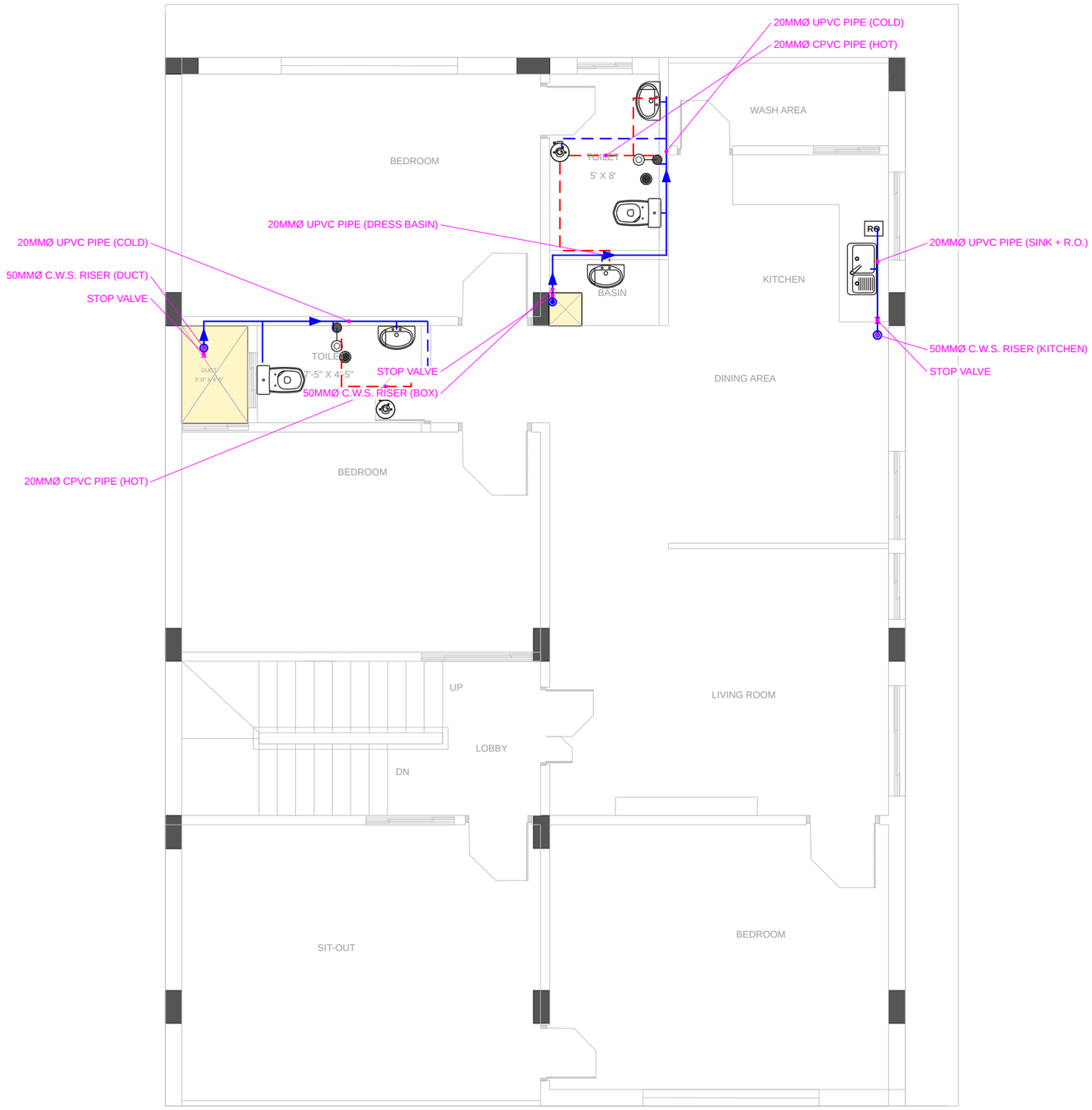
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# FIRST FLOOR WATER SUPPLY

SCALE 1:70 (ENLARGED TOILETS: SEE D-11)

## LEGEND & PLUMBER KEY

- 50MMØ C.W.S. (MAIN / RISER) - UPVC
- 20MMØ UPVC PIPE (COLD BRANCH)
- 20MMØ CPVC PIPE (HOT, DASHED = CEILING RUN)
- STOP VALVE (ACCESSIBLE)
- 50MMØ C.W.S. RISER (IN DUCT / BOX)
- DUCT: S.W.P. + RISER
- GEYSER (WALL MOUNTED)
- W.C. WESTERN TYPE + CISTERN
- WASH BASIN
- NAHANI TRAP (SHOWER CORNER)
- KITCHEN SINK
- R.O. WATER PURIFIER
- COLUMN (CLIENT MODEL)

### FLOW (FOLLOW THE ARROWS)

1. COLD: OHT (TERRACE, SW) -> 50MMØ C.W.S. MAIN -> RISERS IN BOXES AT COLUMNS -> STOP VALVE -> 20MMØ UPVC PIPE -> CISTERN, BASIN, GEYSER, MIXER.
2. HOT: COLD INTO GEYSER -> 20MMØ CPVC PIPE -> MIXER AND WASH BASIN.

### NOTES FOR PLUMBER

- Blue = cold water (UPVC), red = hot water (CPVC). Never swap them at the mixer / basin.
- Toilets 1 and 2 hang on one wet wall (the central wall chase). Risers stand in the boxes at the columns.
- Fit one stop valve at the foot of every riser, accessible. Pressure-test before the chase is closed.
- Dashed pipe on plan runs in the ceiling; solid pipe runs in the wall chase. Keep 18" clear of windows.
- OHT inlet, rising main and R.W.P. never stand on a window.

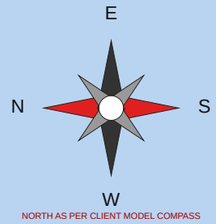
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| | |
|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-05** |

NOTE:

1. Blue = cold, red = hot, line weight 0.30 mm. Toilets, columns and fixtures as client model.
2. Geyser and nahani trap added in every washroom.
3. Enlarged toilets: D-11. Sections: D-13, D-14. Risers: D-15.
4. North = sheet LEFT, east = TOP, road = WEST (client compass).




NORTH AS PER CLIENT MODEL COMPASS

FIRST FLOOR WATER SUPPLY

| REV | DATE | DESCRIPTION |
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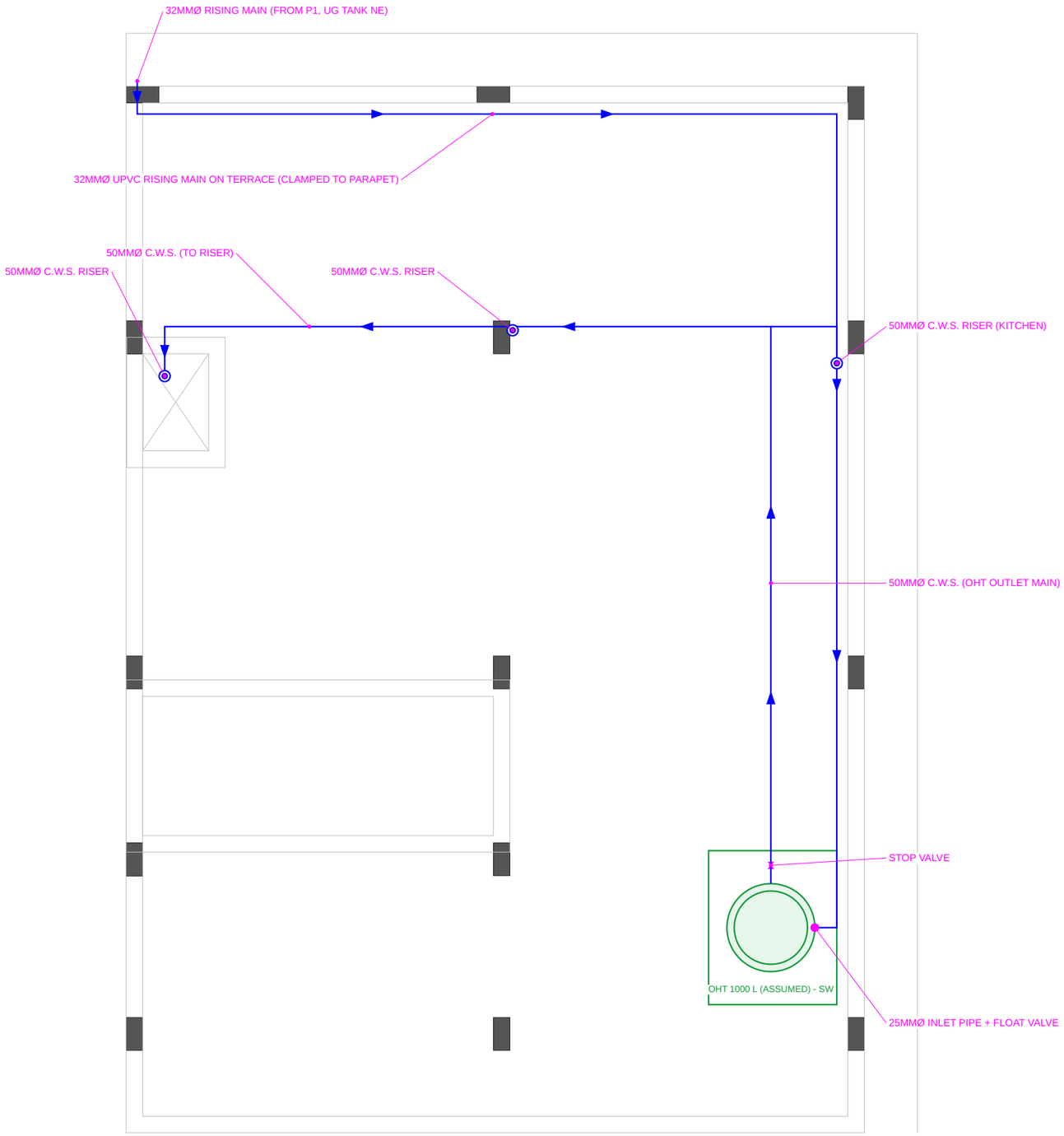
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## LEGEND & PLUMBER KEY

- 50MMØ C.W.S. (MAIN / RISER) - UPVC
- 20MMØ UPVC PIPE (COLD BRANCH)
- 20MMØ CPVC PIPE (HOT, DASHED = CEILING RUN)
- STOP VALVE (ACCESSIBLE)
- 50MMØ C.W.S. RISER (IN DUCT / BOX)
- OVERHEAD TANK (OHT)
- COLUMN (CLIENT MODEL)

### FLOW (FOLLOW THE ARROWS)

1. PUMP P1 -> 32MMØ RISING MAIN UP COLUMN (NE) -> ALONG THE BACK AND SOUTH PARAPET -> OHT INLET (FLOAT VALVE).
2. OHT OUTLET (STOP VALVE) -> 50MMØ C.W.S. MAIN -> RISERS, AND KITCHEN.

### NOTES FOR PLUMBER

- Fit one stop valve at the foot of every riser, accessible. Pressure-test before the chase is closed.
- Dashed pipe on plan runs in the ceiling; solid pipe runs in the wall chase. Keep 18" clear of windows.
- OHT inlet, rising main and R.W.P. never stand on a window.

# TERRACE WATER SUPPLY

SCALE 1:70

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| | |
|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-06** |

### NOTE:

1. OHT in the SW zone as per Vastu. Size 1000 L ASSUMED - confirm with client.
2. Rising main is 32MMØ and never stands on a window; it rises at the NE corner column.
3. Terrace pipes are clamped on supports along the parapet, sleeved and UV protected.
4. Rising main inlet 25MMØ with float valve; overflow + wash-out to R.W.P. R1.

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NORTH AS PER CLIENT MODEL COMPASS

TERRACE WATER SUPPLY (OHT, RISING MAIN, RISERS)

| REV | DATE | DESCRIPTION |
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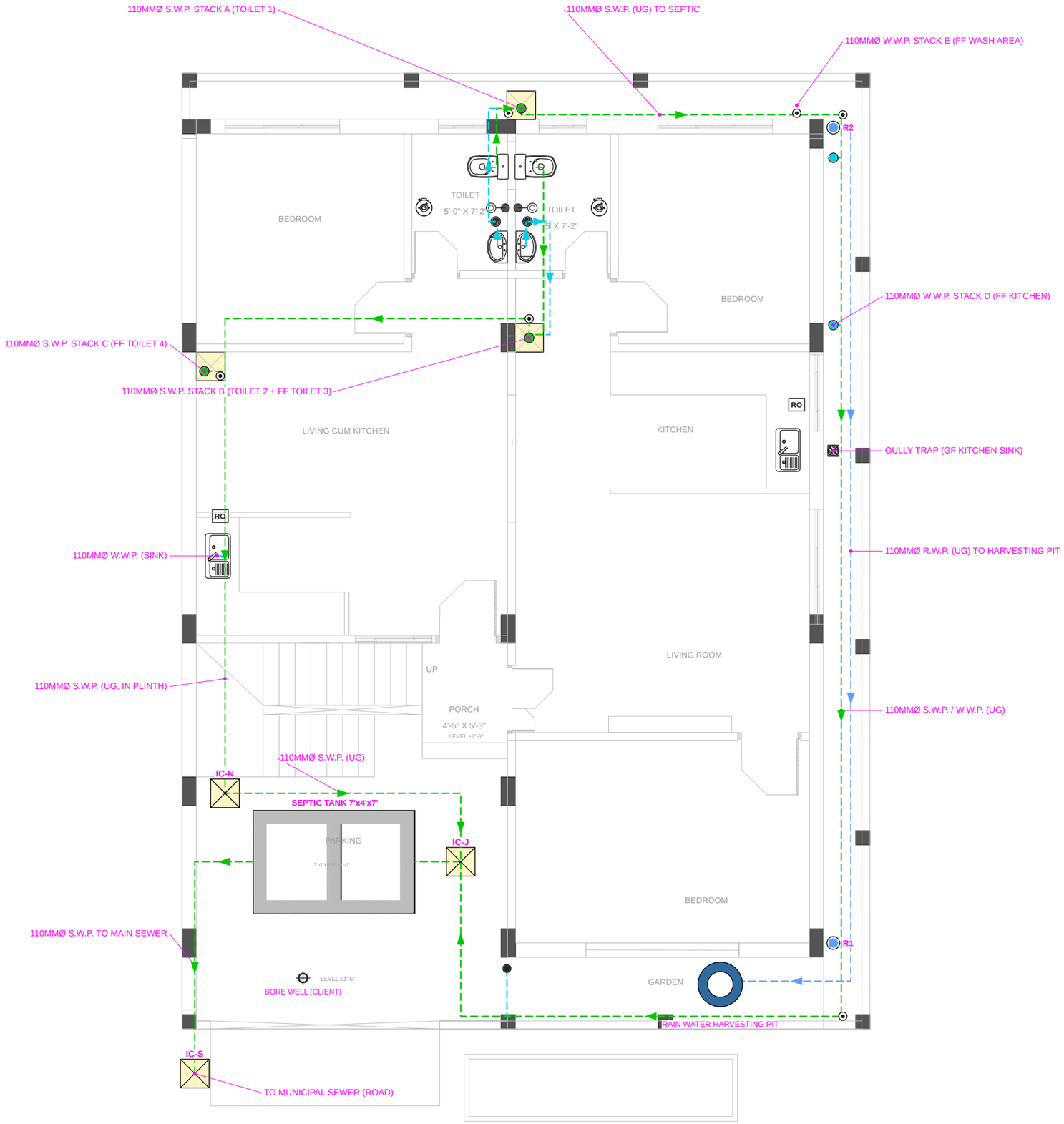
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# GROUND FLOOR & SITE DRAINAGE

SCALE 1:70 (ENLARGED TOILETS: D-12)

## LEGEND & PLUMBER KEY

- 110MMØ S.W.P. (SOIL) - PVC
- 110MMØ W.W.P. (WASTE WATER) - PVC
- 110MMØ R.W.P. (RAIN WATER) - PVC
- DUCT BOX: STACK AT COLUMN
- CLEANOUT (RODDING EYE)
- INSPECTION CHAMBER 450 x 450
- W.C. WESTERN TYPE
- WASH BASIN
- NAHANI TRAP / FLOOR DRAIN
- GULLY TRAP
- R.W.P. OUTLET AT COLUMN
- SEPTIC TANK
- COLUMN (CLIENT MODEL)

### FLOW (FOLLOW THE ARROWS)

1. W.C. -> S.W.P. STACK -> UG 110MMØ SEWER -> SEPTIC TANK (PARKING) -> CHAMBER IC-S AT THE ROAD -> MUNICIPAL SEWER.
2. BASIN + NAHANI TRAP -> W.W.P. -> JOINS THE SOIL LINE OUTSIDE THE WALL.
3. KITCHEN SINKS -> GULLY TRAP / STACK D -> SAME SEWER.
4. RAIN: R.W.P. R1, R2 -> UG 110MMØ -> HARVESTING PIT IN THE FRONT GARDEN.

### NOTES FOR PLUMBER

- Stacks stand in the boxes at the marked columns. Keep them vertical.
- Keep the slope 1/8" per foot on every horizontal 110 mm pipe (1/4" per foot on 50 mm).
- Nahani trap sits in the shower corner, NOT in the middle of the floor. Slope the floor to it.
- Waste water joins the soil line OUTSIDE the wall at the Y-junction. Water seal 50 mm in every trap.
- One sewer + one septic. Chambers outside the house only. Cleanout (CO) at every stack base and bend.
- Dashed pipe is underground (in plinth fill on GF). Water-test all drains before back-filling.


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| | |
|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-07** |

NOTE:

1. Green = S.W.P., cyan = W.W.P., light blue = R.W.P.; all 110MMØ PVC, 0.30 mm; dashed = underground.
2. Stacks A-E stand in boxes at the marked columns; cleanout at every stack base.
3. One septic (client position, parking) and ONE sewer to the municipal line through chamber IC-S.
4. X marks: water / rain pipes cross above S.W.P. with 150 mm clearance.

E
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NORTH AS PER CLIENT MODEL COMPASS

GROUND FLOOR & SITE DRAINAGE

| REV | DATE | DESCRIPTION |
|---|---|---|
| R1 | 20-10-2026 | Final - client model PDF |

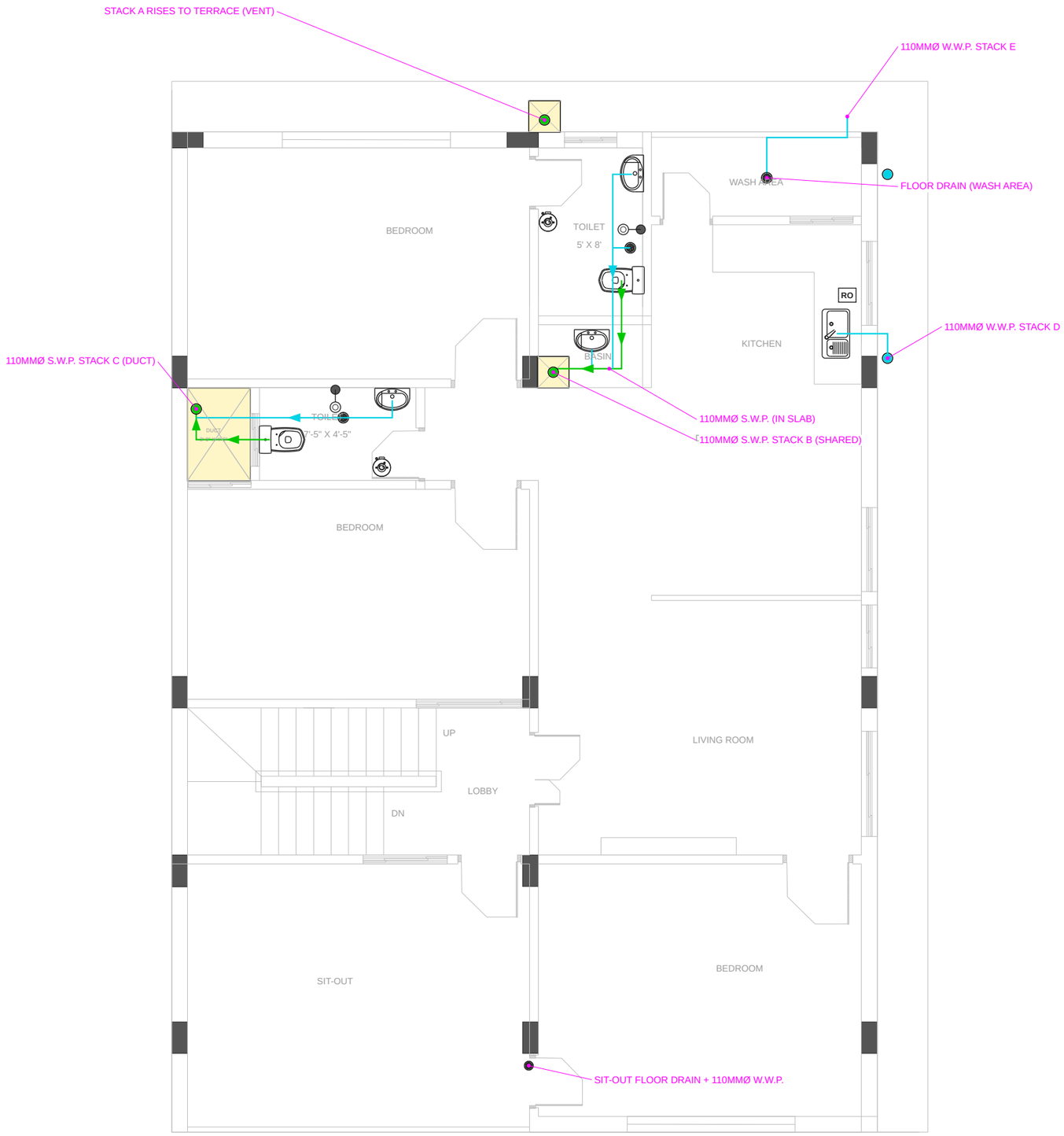
PREPARED: MEP / DRAINAGE CHECKED: -

**STATUS: FOR REVIEW - NOT FOR CONSTRUCTION**

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)


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# FIRST FLOOR DRAINAGE

SCALE 1:70

## LEGEND & PLUMBER KEY

- 110MMØ S.W.P. (SOIL) - PVC
- 110MMØ W.W.P. (WASTE WATER) - PVC
- 110MMØ R.W.P. (RAIN WATER) - PVC
- DUCT BOX: STACK AT COLUMN
- CLEANOUT (RODDING EYE)
- INSPECTION CHAMBER 450 x 450
- W.C. WESTERN TYPE
- WASH BASIN
- NAHANI TRAP / FLOOR DRAIN
- GULLY TRAP
- R.W.P. OUTLET AT COLUMN
- SEPTIC TANK
- COLUMN (CLIENT MODEL)

## FLOW (FOLLOW THE ARROWS)

1. W.C. -> S.W.P. -> STACK B / STACK C -> GROUND FLOOR UG SEWER.
2. BASIN + NAHANI TRAP -> W.W.P. -> JOINS SOIL AT THE STACK (OUTSIDE THE WALL).
3. KITCHEN SINK -> STACK D; WASH AREA -> STACK E.

## NOTES FOR PLUMBER

- Stacks stand in the boxes at the marked columns. Keep them vertical.
- Keep the slope 1/8" per foot on every horizontal 110 mm pipe (1/4" per foot on 50 mm).
- Nahani trap sits in the shower corner, NOT in the middle of the floor. Slope the floor to it.
- Waste water joins the soil line OUTSIDE the wall at the Y-junction. Water seal 50 mm in every trap.
- One sewer + one septic. Chambers outside the house only. Cleanout (CO) at every stack base and bend.

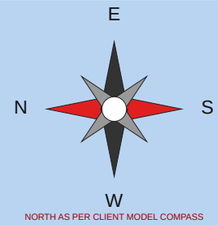
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| | |
|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-08** |

NOTE:

1. FF toilet 3 and GF toilet 2 share stack B (box at column). FF toilet 4 drains to stack C in its duct.
2. FF kitchen sink waste -> stack D on the south wall; wash area drain -> stack E at the back wall.
3. Sit-out floor drain runs down at the column to the GF line.
4. All pipes in the slab depression / ceiling; slope 1/8" per foot.




NORTH AS PER CLIENT MODEL COMPASS

FIRST FLOOR DRAINAGE

| REV | DATE | DESCRIPTION |
|---|---|---|
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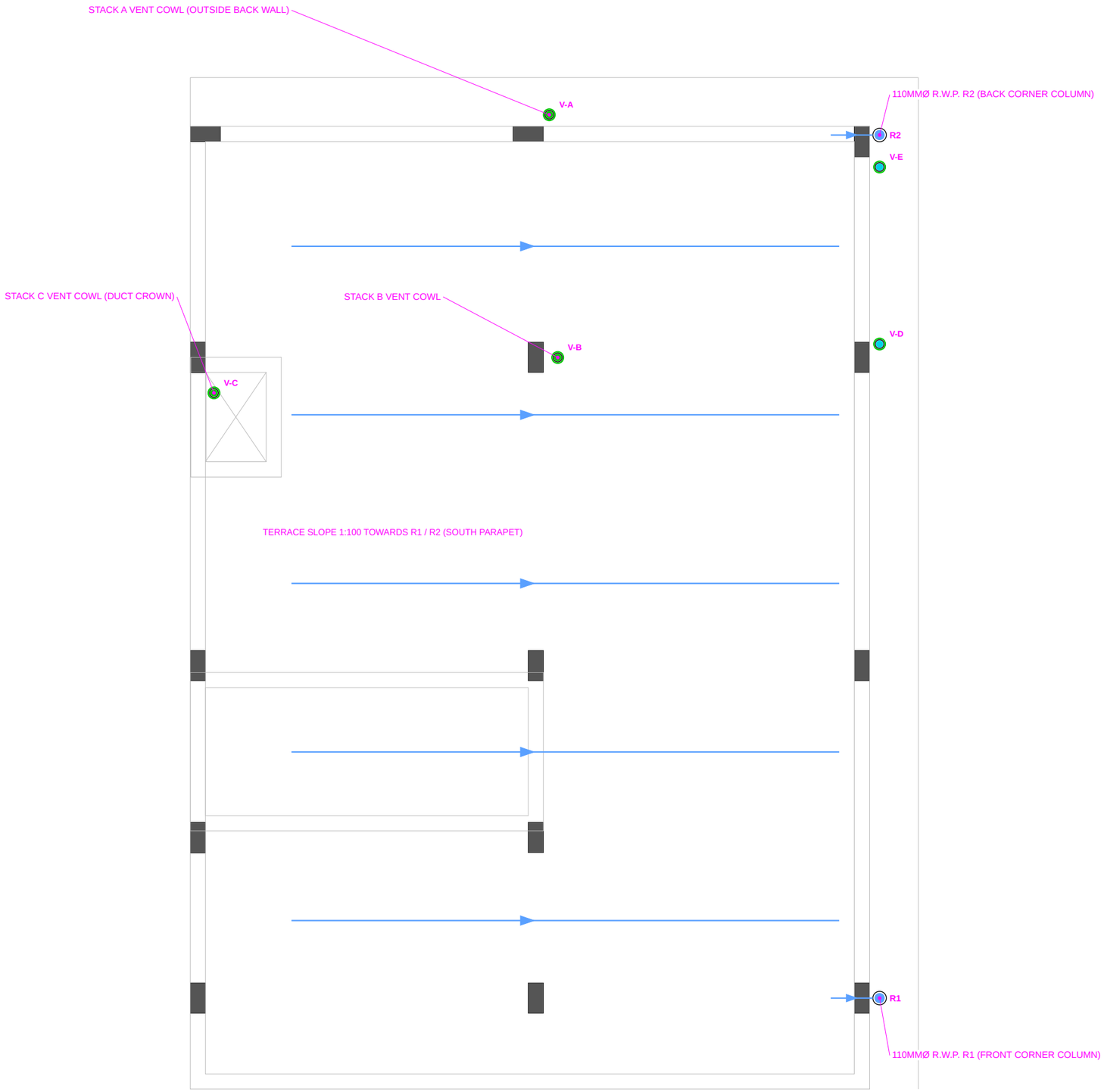
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## LEGEND & PLUMBER KEY

- 110MMØ R.W.P. (RAIN WATER) - PVC
- 110MMØ S.W.P. (SOIL) - PVC
- 110MMØ W.W.P. (WASTE WATER) - PVC
- R.W.P. OUTLET AT COLUMN
- COLUMN (CLIENT MODEL)

### FLOW (FOLLOW THE ARROWS)

1. RAIN -> TERRACE SLOPE -> R1 / R2 -> UG 110MMØ R.W.P. -> HARVESTING PIT.
2. STACKS A-E RISE TO THE TERRACE -> 3'-0" ABOVE SLAB -> VENT COWL.

### NOTES FOR PLUMBER

- Stacks stand in the boxes at the marked columns. Keep them vertical.
- Keep the slope 1/8" per foot on every horizontal 110 mm pipe (1/4" per foot on 50 mm).
- Nahani trap sits in the shower corner, NOT in the middle of the floor. Slope the floor to it.

# TERRACE DRAIN WATER & STACK VENTS

SCALE 1:70

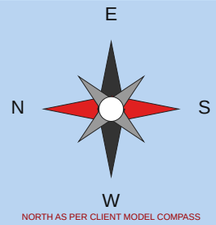
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|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-09** |

NOTE:

1. R.W.P. at the south corner columns, front (R1) and back (R2), as per brief; none on a window.
2. Each stack continues 3'-0" above the terrace with a vent cowl. Stack vents V-A to V-E.
3. Terrace area about 214 m2: two 110 mm outlets are the minimum - a third at the middle column is advised (see review).
4. Slope the terrace 1:100 to the south parapet outlets; mumty / stair roof drains to the terrace.




NORTH AS PER CLIENT MODEL COMPASS

TERRACE DRAIN WATER & STACK VENTS

| REV | DATE | DESCRIPTION |
|---|---|---|
| R1 | 20-10-2026 | Final - client model PDF |

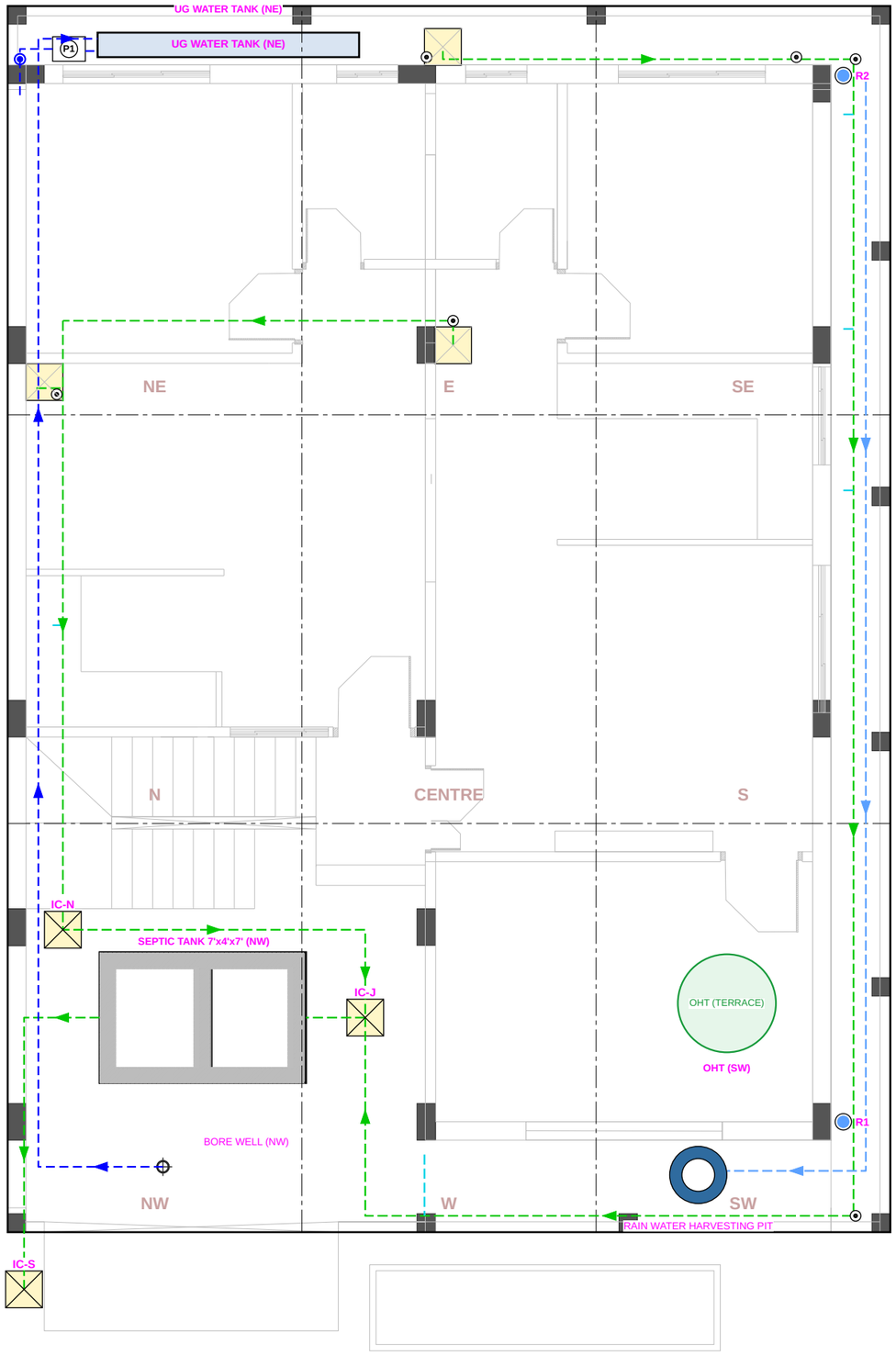
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# SITE SERVICES LAYOUT & VASTU

SCALE 1:70

## VASTU CHECK

| ITEM | ZONE (VASTU) | IN DRAWING | STATUS |
|---|---|---|---|
| SEPTIC TANK | NORTH-WEST | BOTTOM-LEFT = NW | OK (CLIENT) |
| UG WATER TANK | NORTH-EAST | TOP-LEFT = NE | OK (STRIP) |
| OVERHEAD TANK | SOUTH-WEST | BOTTOM-RIGHT = SW | OK |
| BORE WELL | NORTH-EAST | BOTTOM-LEFT = NW | CLIENT PLACE - FLAG |
| SEWER CONNECTION | ROAD (WEST) | BOTTOM-LEFT | IC-S AT ROAD |

Municipal sewer is at the road: septic outlet goes to it through ONE chamber (IC-S) outside the plot.

Soak pit is dropped (kept only as standby if the municipality refuses effluent).

Bore well is in the NW at the gate (client position); Vastu prefers NE - flagged in the review file.

Water: bore well -> 50 mm UG inlet along the north plinth -> UG tank (NE strip) -> pump P1 -> 32 mm rising main up the NE corner column -> OHT (SW).

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Client Name : Mr. Sanjay

Project Type : Residential

Date : Oct 20, 2026

Sheet No. : **D-10**

NOTE:

1. Zones read on the client compass: north left, east top, south right, west bottom (road).
2. Septic stays in the parking and the bore well near the gate as marked by the client.
3. UG tank (10'-8" x 1'-0" x 6'-0", 4" RCC walls) squeezed in the 20" back strip (north-east); see review file.

E
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NORTH AS PER CLIENT MODEL COMPASS

SITE SERVICES LAYOUT & VASTU

| REV | DATE | DESCRIPTION |
|---|---|---|
| R1 | 20-10-2026 | Final - client model PDF |

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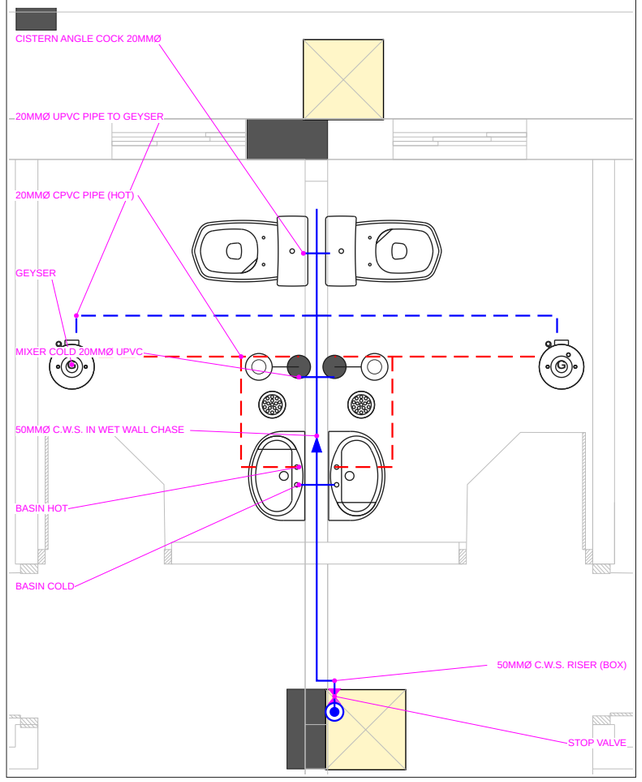
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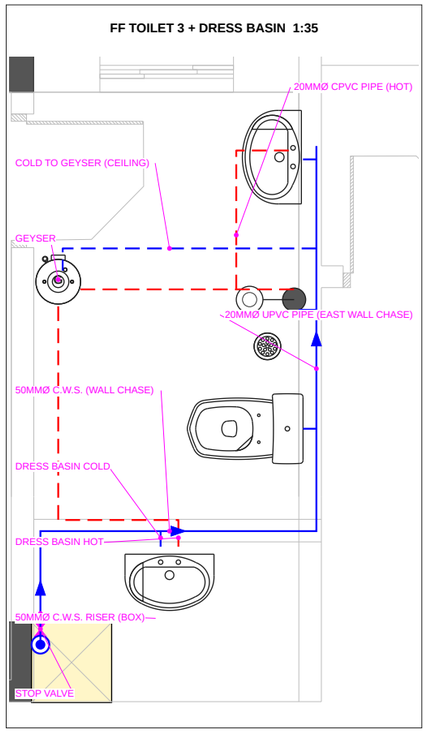
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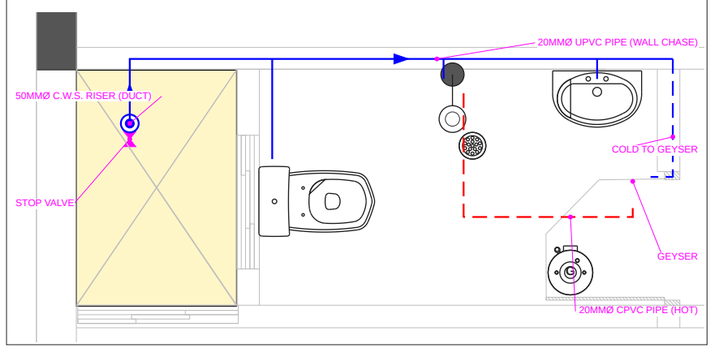
### GF TOILETS 1 + 2 + BOXES A, B 1:35




### FF TOILET 3 + DRESS BASIN 1:35




### FF TOILET 4 (WEST) + DUCT 1:35




## LEGEND & PLUMBER KEY

- 50MMØ C.W.S. (MAIN / RISER) - UPVC
- 20MMØ UPVC PIPE (COLD BRANCH)
- 20MMØ CPVC PIPE (HOT, DASHED = CEILING RUN)
- STOP VALVE (ACCESSIBLE)
- 50MMØ C.W.S. RISER (IN DUCT / BOX)
- DUCT: S.W.P. + RISER
- GEYSER (WALL MOUNTED)
- W.C. WESTERN TYPE + CISTERN
- WASH BASIN
- NAHANI TRAP (SHOWER CORNER)
- KITCHEN SINK
- R.O. WATER PURIFIER
- COLUMN (CLIENT MODEL)

## NOTES FOR PLUMBER

- Blue = cold water (UPVC), red = hot water (CPVC). Never swap them at the mixer / basin.
- Toilets 1 and 2 hang on one wet wall (the central wall chase). Risers stand in the boxes at the columns.
- Fit one stop valve at the foot of every riser, accessible. Pressure-test before the chase is closed.
- Dashed pipe on plan runs in the ceiling; solid pipe runs in the wall chase. Keep 18" clear of windows.
- OHT inlet, rising main and R.W.P. never stand on a window.

# TOILETS ENLARGED

SCALE 1:35


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| | |
|---|---|
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| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-11** |

NOTE:

1. Toilets 1 and 2 are mirror images about the central wet wall (client model).
2. Fixture positions as the client model; geyser and nahani trap added.
3. Pipes run in the wall chase (solid) or the ceiling (dashed).

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NORTH AS PER CLIENT MODEL COMPASS

TOILETS ENLARGED - WATER SUPPLY (HOT & COLD)

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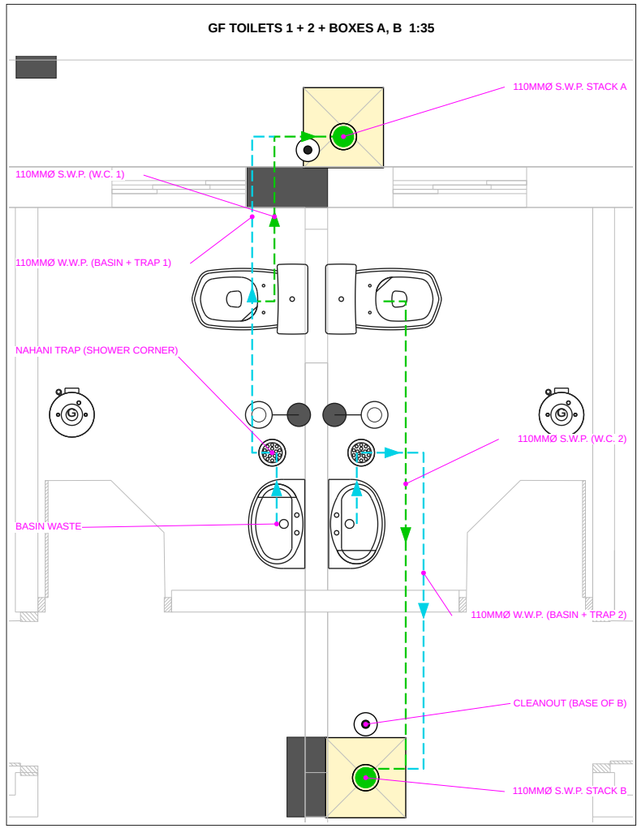
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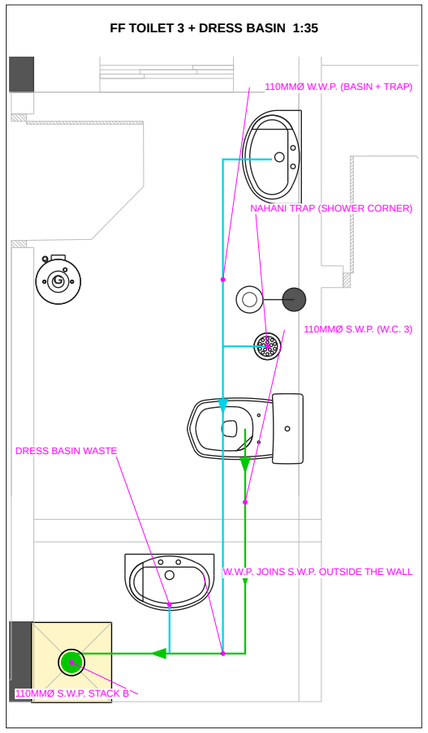
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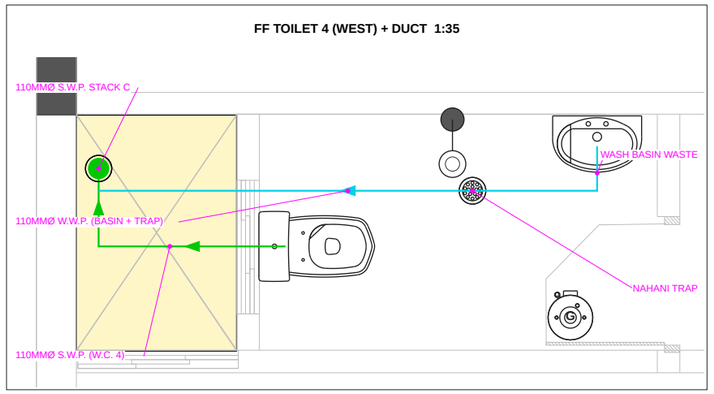
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## LEGEND & PLUMBER KEY

- 110MMØ S.W.P. (SOIL) - PVC
- 110MMØ W.W.P. (WASTE WATER) - PVC
- 110MMØ R.W.P. (RAIN WATER) - PVC
- DUCT BOX: STACK AT COLUMN
- CLEANOUT (RODDING EYE)
- INSPECTION CHAMBER 450 x 450
- W.C. WESTERN TYPE
- WASH BASIN
- NAHANI TRAP / FLOOR DRAIN
- GULLY TRAP
- R.W.P. OUTLET AT COLUMN
- SEPTIC TANK
- COLUMN (CLIENT MODEL)

### NOTES FOR PLUMBER

- Stacks stand in the boxes at the marked columns. Keep them vertical.
- Keep the slope 1/8" per foot on every horizontal 110 mm pipe (1/4" per foot on 50 mm).
- Nahani trap sits in the shower corner, NOT in the middle of the floor. Slope the floor to it.
- Waste water joins the soil line OUTSIDE the wall at the Y-junction. Water seal 50 mm in every trap.
- One sewer + one septic. Chambers outside the house only. Cleanout (CO) at every stack base and bend.
- Dashed pipe is underground (in plinth fill on GF). Water-test all drains before back-filling.

# TOILETS ENLARGED

SCALE 1:35

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|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-12** |

NOTE:

1. Toilets 1 and 2 are mirror images about the central wet wall (client model).
2. Fixture positions as the client model; geyser and nahani trap added.
3. Sections: D-13, D-14.

E
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NORTH AS PER CLIENT MODEL COMPASS

TOILETS ENLARGED - DRAINAGE (S.W.P. / W.W.P.)

| REV | DATE | DESCRIPTION |
|---|---|---|
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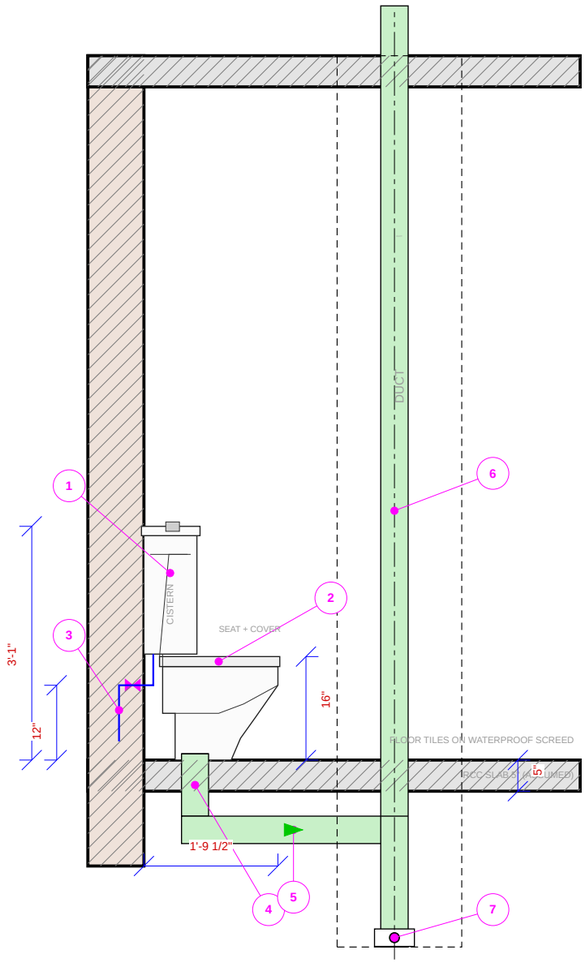
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UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)

## SECTION A-A : W.C. (EWC)

SCALE 1:25




1 CISTERN (WALL / FLOOR STANDING), FLUSH 6/3 L

2 EWC S-TRAP, SEAT HEIGHT 16" ABOVE FINISHED FLOOR

3 20MMØ UPVC PIPE IN WALL CHASE TO ANGLE COCK (12" AFFL)

4 S-TRAP OUTLET 110MMØ THROUGH SLAB (SLEEVE + SEAL)

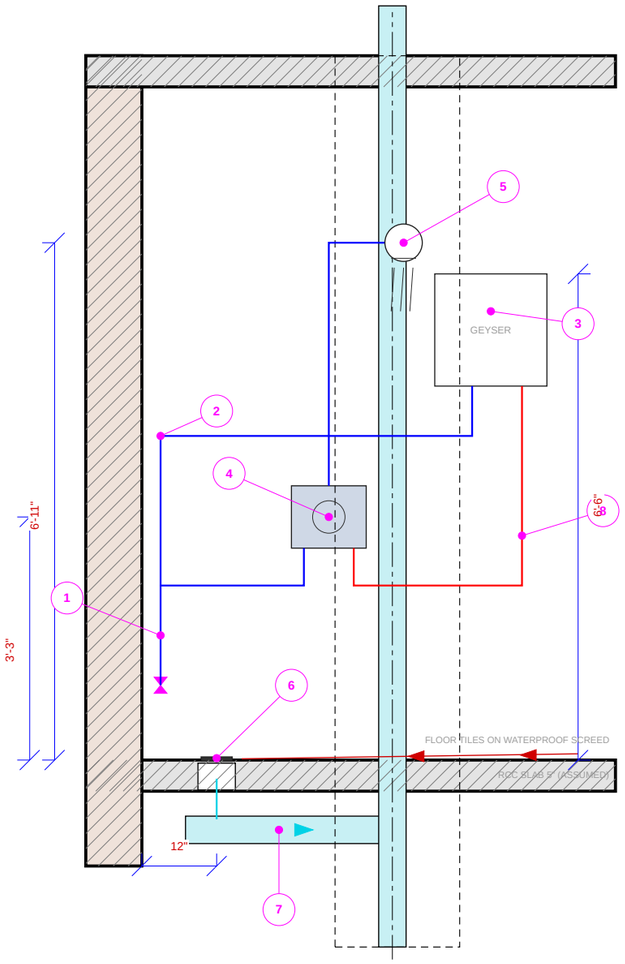
5 110MMØ S.W.P. BRANCH UNDER SLAB, 1/8" PER FOOT TO STACK

6 110MMØ S.W.P. STACK IN DUCT, ALIGNED WITH COLUMN

7 CLEANOUT AT STACK BASE

## SECTION B-B : SHOWER WALL & NAHANI TRAP

SCALE 1:25




1 20MMØ UPVC PIPE (COLD) RISER IN WALL CHASE, STOP VALVE AT 12"

2 20MMØ UPVC PIPE (COLD) TO GEYSER INLET

3 GEYSER (WALL MOUNTED), TOP AT 6'-6" ; ELECTRICAL POINT BY OTHERS

4 WALL MIXER (H + C) AT 3'-3" AFFL

5 SHOWER ROSE AT 6'-11" AFFL

6 NAHANI TRAP 100 x 100, 50 MM WATER SEAL, IN SHOWER CORNER

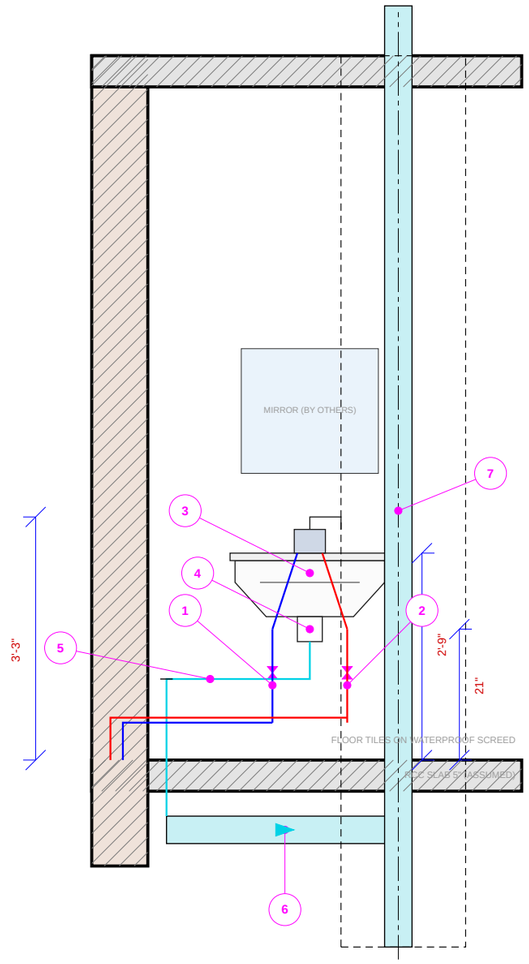
7 110MMØ W.W.P. BRANCH UNDER SLAB, 1/8" PER FOOT TO STACK

8 20MMØ CPVC PIPE (HOT) FROM GEYSER TO MIXER

FLOOR SLOPES 1:100 TOWARDS THE NAHANI TRAP

## SECTION C-C : WASH BASIN WALL

SCALE 1:25




1 20MMØ UPVC PIPE (COLD) TO ANGLE COCK AT 21"

2 20MMØ CPVC PIPE (HOT) TO ANGLE COCK AT 21"

3 WASH BASIN, RIM AT 2'-8" AFFL, MIXER AT 3'-3"

4 BOTTLE TRAP, 32 MM WASTE, 50 MM WATER SEAL

5 WASTE IN WALL CHASE, DOWN TO THE W.W.P. BRANCH

6 110MMØ W.W.P. BRANCH UNDER SLAB, 1/8" PER FOOT

7 110MMØ W.W.P. STACK IN DUCT, ALIGNED WITH COLUMN

# TOILET SECTIONS


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0731-6803999


Client Name : Mr. Sanjay

Project Type : Residential

Date : Oct 20, 2026

Sheet No. : **D-13**

NOTE:

1. Sections are schematic of one typical block; positions are as on D-11 / D-12.
2. Section lines A-A (W.C.), B-B (shower wall), C-C (wash basin) are on D-12.
3. Heights are above finished floor (AFFL). Slab 5" and ceiling 9'-0" are assumed - confirm with architect.
4. Same arrangement on GF and FF. On GF the branch runs in the plinth fill / below the floor.

E
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TOILET SECTIONS - W.C., SHOWER WALL, WASH BASIN

| REV | DATE | DESCRIPTION |
|---|---|---|
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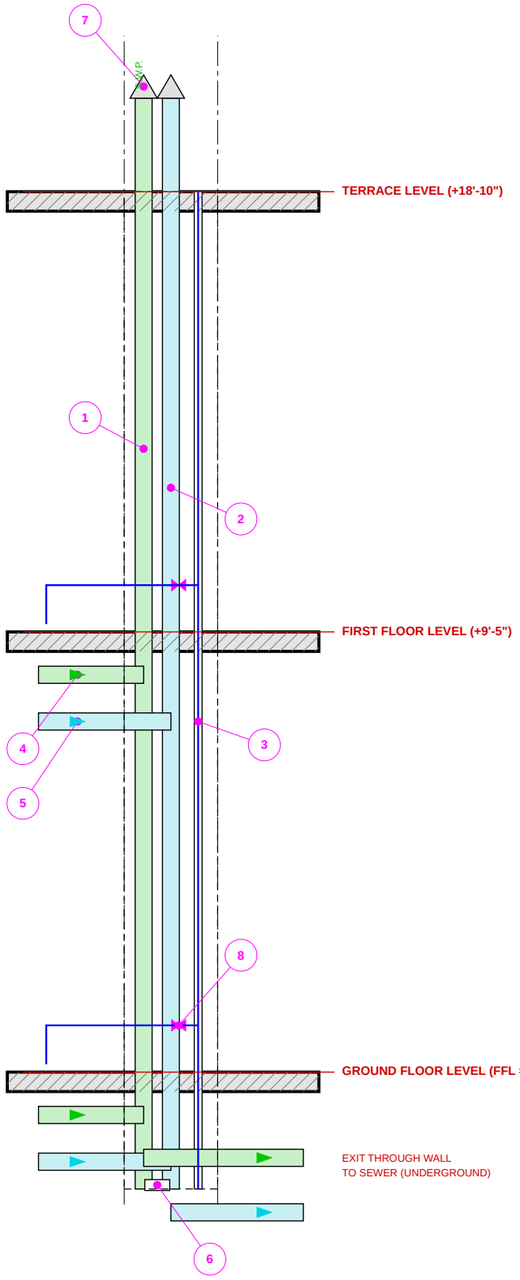
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LINE WT: 0.30 mm (PIPES)


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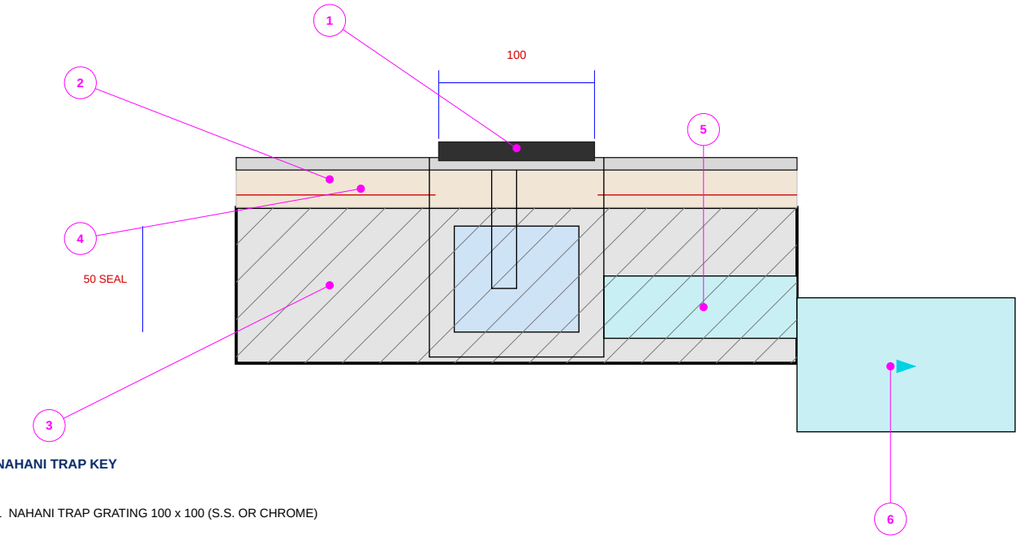
## SECTION THROUGH DUCT (TYPICAL)

SCALE 1:40




## NAHANI TRAP (FLOOR DRAIN) - SECTION

SCALE 1:5




### NAHANI TRAP KEY

1 NAHANI TRAP GRATING 100 x 100 (S.S. OR CHROME)

2 FLOOR TILE + SCREED, SLOPE 1:100 TO THE TRAP

3 WATERPROOFING LAYER, TURNED UP INTO THE TRAP

4 RCC SLAB (5" ASSUMED)

5 50 MM OUTLET INTO 110MMØ W.W.P. BRANCH (Y-JUNCTION)

6 110MMØ W.W.P. BRANCH, 1/8" PER FOOT TO THE STACK

### DUCT SECTION KEY

1 S.W.P. STACK 110MMØ

2 W.W.P. STACK 110MMØ

3 50MMØ C.W.S. RISER, STOP VALVE AT FOOT OF EACH FLOOR

4 S.W.P. BRANCH FROM W.C.

5 W.W.P. BRANCH (BASIN + NAHANI TRAP)

6 CLEANOUT AT STACK BASE

7 VENT COWL ABOVE TERRACE

8 STOP VALVE

# DUCT STACK SECTION & NAHANI TRAP DETAIL


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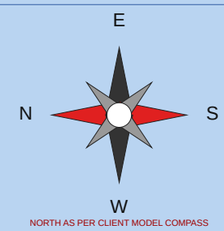
Project Type : Residential

Date : Oct 20, 2026

Sheet No. : **D-14**

NOTE:

1. Duct stack: one S.W.P., one W.W.P. and one 50MMØ C.W.S. riser stand together in the duct at the column.
2. Branches hang under the slab; stacks go straight down to the base cleanout, then out through the wall.
3. Nahani trap: 100 x 100 grating, trap with 50 mm water seal; waterproofing turned up at the trap and the walls.
4. Levels are indicative - floor to floor height assumed 9'-5" - confirm with architect.




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DUCT STACK SECTION & NAHANI TRAP DETAIL

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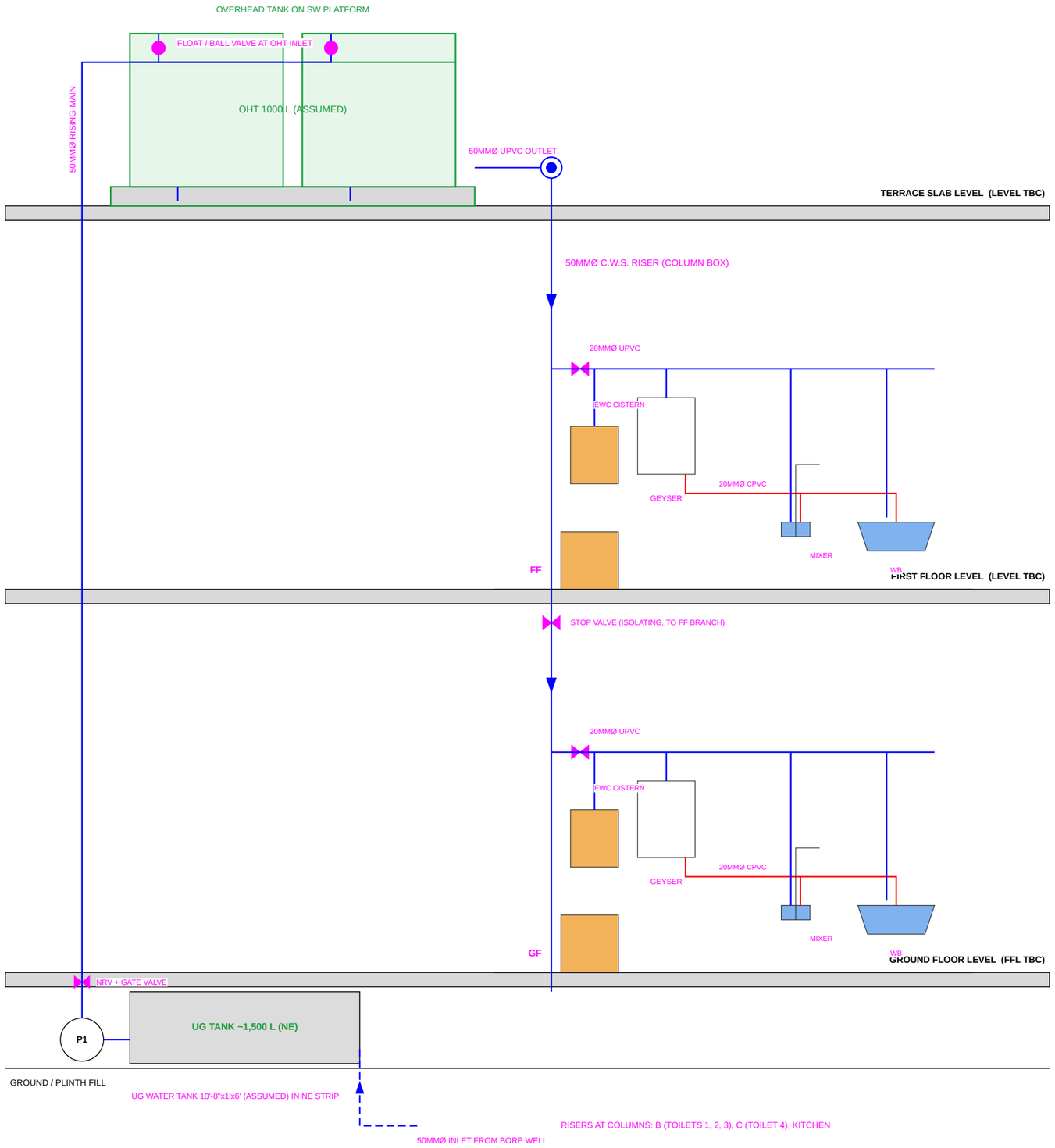
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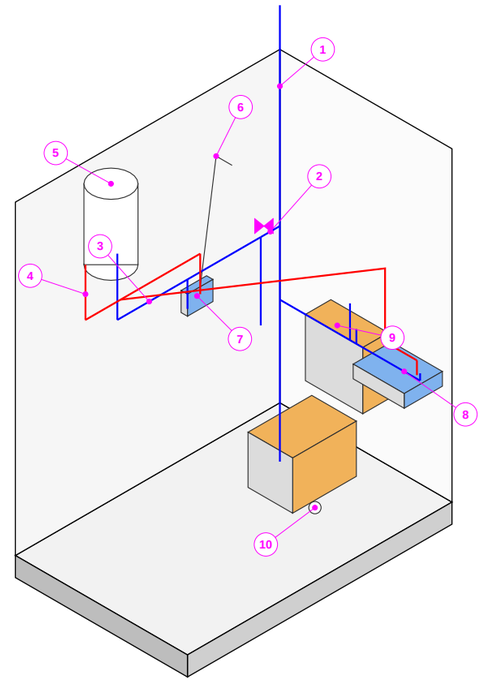



# WATER SUPPLY RISER DIAGRAM

NOT TO SCALE

## TYPICAL TOILET - WATER SUPPLY ISOMETRIC

NOT TO SCALE




1 50MMØ C.W.S. RISER (BLUE) IN COLUMN BOX

2 STOP VALVE (ACCESSIBLE) AT FLOOR BRANCH

3 20MMØ UPVC PIPE BRANCH (CONCEALED)

4 20MMØ CPVC PIPE (RED) - GEYSER TO FIXTURES

5 GEYSER (WALL MOUNTED, CAPACITY TBC) - ELECTRICAL POINT BY OTHERS

6 SHOWER ROSE

7 WALL MIXER (HOT + COLD)

8 WASH BASIN (H + C)

9 EWC + CISTERN (C.W. INLET)

10 NAHANI TRAP (SHOWER CORNER, ADDED)

HOT = RED CPVC | COLD = BLUE UPVC

ENLARGED PLANS: D-11 (SUPPLY), D-12 (DRAINAGE)

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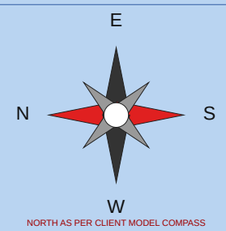
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|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-15** |

NOTE:

1. Riser diagram is schematic (NOT TO SCALE); floor levels / heights TBC.
2. Typical 50MMØ C.W.S. riser at the column, in the box beside the stack; 3 risers: B (toilets 1, 2, 3), C (toilet 4), kitchen.
3. Fixture heights typical - confirm with architect / interior layout.
4. Isometric typical for one toilet block.




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WATER SUPPLY RISER DIAGRAM & ISOMETRIC

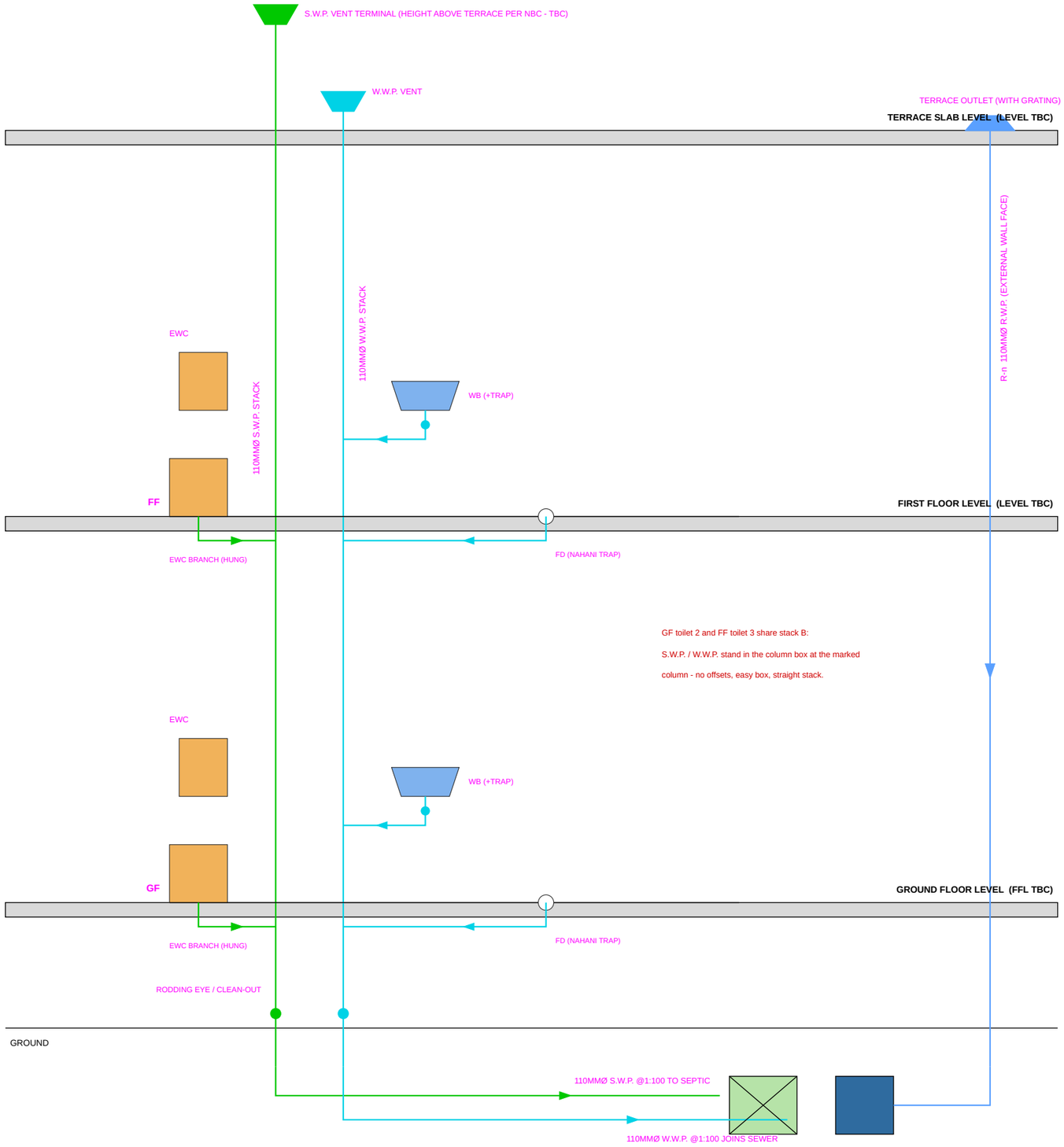
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|---|---|---|
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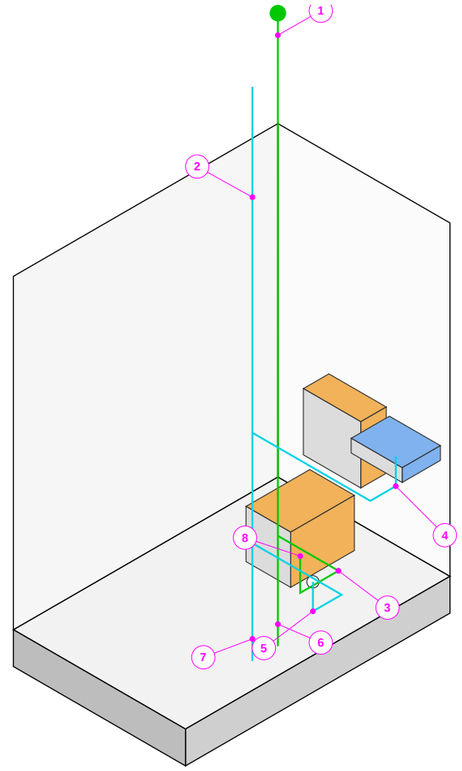



# DRAINAGE RISER DIAGRAM

NOT TO SCALE

## TYPICAL TOILET - DRAINAGE ISOMETRIC (STACK IN COLUMN BOX)

NOT TO SCALE




1 110MMØ S.W.P. STACK + VENT ABOVE TERRACE (GREEN)

2 110MMØ W.W.P. STACK (CYAN)

3 EWC BRANCH 110MMØ, HUNG BELOW SLAB, FLOW TO STACK

4 WASH BASIN WASTE WITH TRAP (50 mm SEAL) TO W.W.P. STACK

5 FLOOR DRAIN / NAHANI TRAP BRANCH TO W.W.P. STACK

6 S.W.P. STACK CONTINUES TO GF - CLEANOUT - SEWER

7 W.W.P. STACK CONTINUES TO GF - CLEANOUT - JOINS SEWER

8 EWC TRAP (PAN OUTLET)

SOIL = GREEN | WASTE = CYAN | RAIN = LIGHT BLUE

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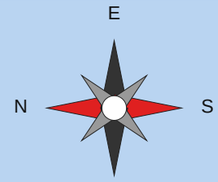
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|---|---|
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| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-16** |

NOTE:

1. Schematic (NOT TO SCALE); levels / heights TBC.
2. 110MMØ S.W.P. / W.W.P. stacks, cleanout at stack base; vent above terrace.
3. All stacks straight and aligned with the marked columns (column box).
4. Slope of horizontal drains 1/8" per foot (110 mm) as per slope table.




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SOIL / WASTE STACK, RAIN WATER RISER & DRAINAGE ISOMETRIC

| REV | DATE | DESCRIPTION |
|---|---|---|
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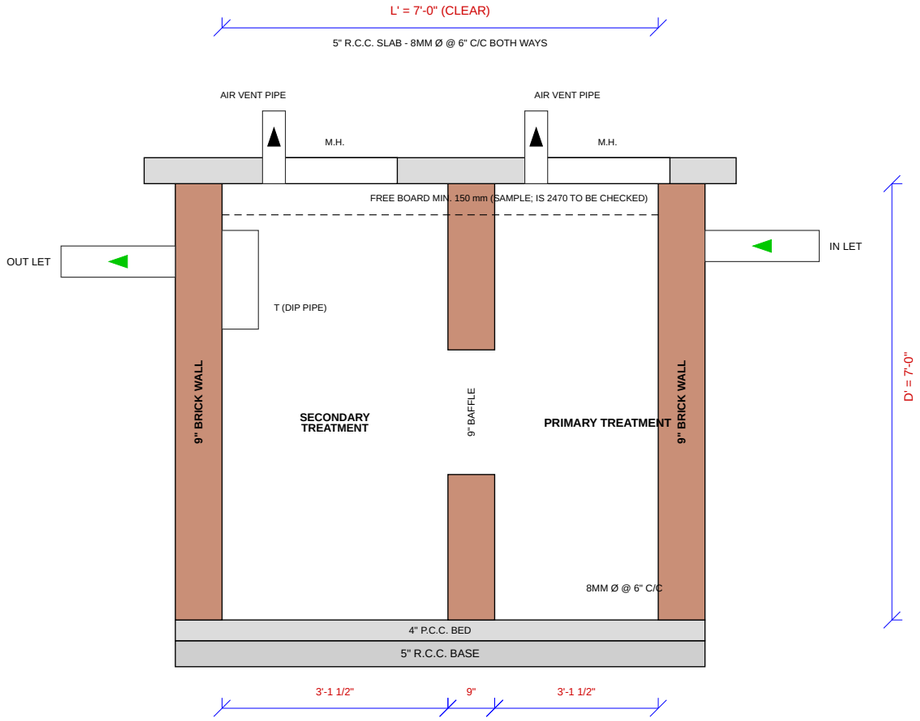
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UNITS: INCHES / FEET, PIPE DIA. IN mm

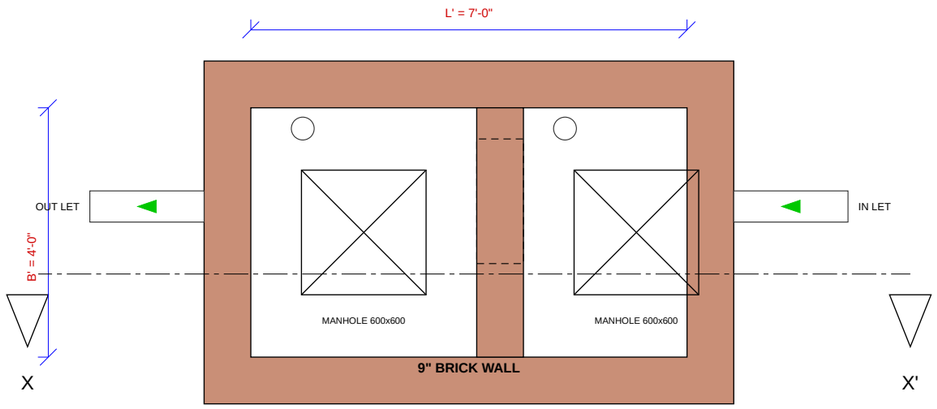
LINE WT: 0.30 mm (PIPES)

# TYPICAL PLAN AND SECTION OF SEPTIC TANK

SCALE 1:30




**SECTION X-X'**




**PLAN OF SEPTIC TANK**

## SEPTIC TANK DATA

| ITEM | VALUE / REMARK |
|---|---|
| SIZE (CLIENT) | 7'-0" x 4'-0" x 7'-0" (L x B x D) |
| L : B | 1.75 : 1 |
| COMPARTMENTS | 2 EQUAL: 3'-1 1/2" + 9" BAFFLE + 3'-1 1/2" |
| WALLS / SLAB | 9" BRICK / 5" RCC; BASE 5" RCC ON 4" PCC |
| INLET / OUTLET | 110MMØ; INVERT LEVELS BY SITE |
| LOCATION | BOTTOM-LEFT = NW ZONE (PARKING, CLIENT MODEL) |
| EFFLUENT | TO MUNICIPAL SEWER VIA IC-S (D-07) |
| SLUDGE | DESLUDGE PERIOD AS PER LOCAL PRACTICE |


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Client Name : Mr. Sanjay
Project Type : Residential
Date : Oct 20, 2026
Sheet No. : **D-17**

NOTE:

1. Size 7'-0" x 4'-0" x 7'-0" as marked in the client model (clear size assumed).
2. Detailing per MMH sample D-04: 9" brick, 5" RCC slab, 9" baffle.
3. L:B = 1.75:1 is below the usual 2:1-3:1 (IS 2470); client size kept.
4. Two equal compartments as drawn in the client model; inlet from chamber IC-J, outlet to the sewer chamber IC-S.

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SEPTIC TANK - TYPICAL PLAN & SECTION

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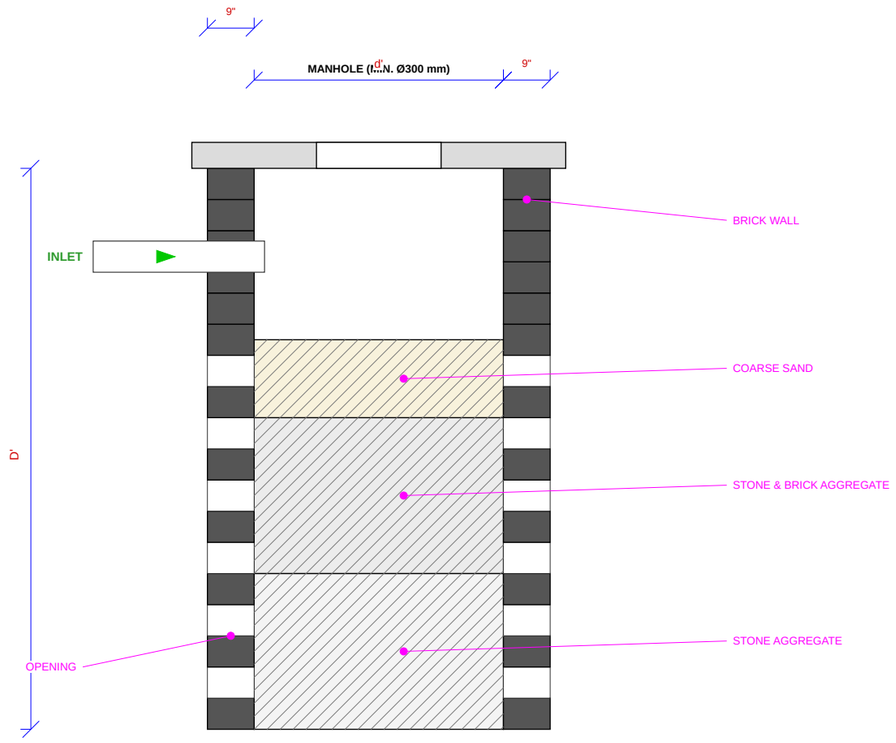
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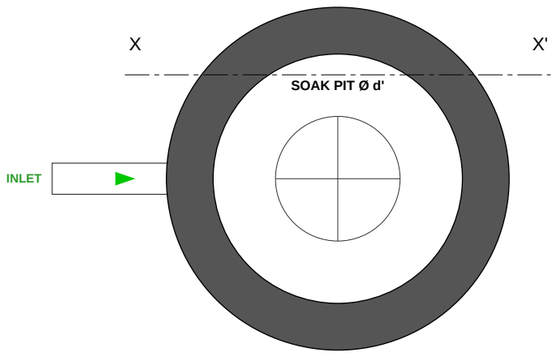

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## TYPICAL PLAN AND SECTION OF SOAK PIT

STANDBY SOAK PIT (OPTIONAL)  SCALE 1:30

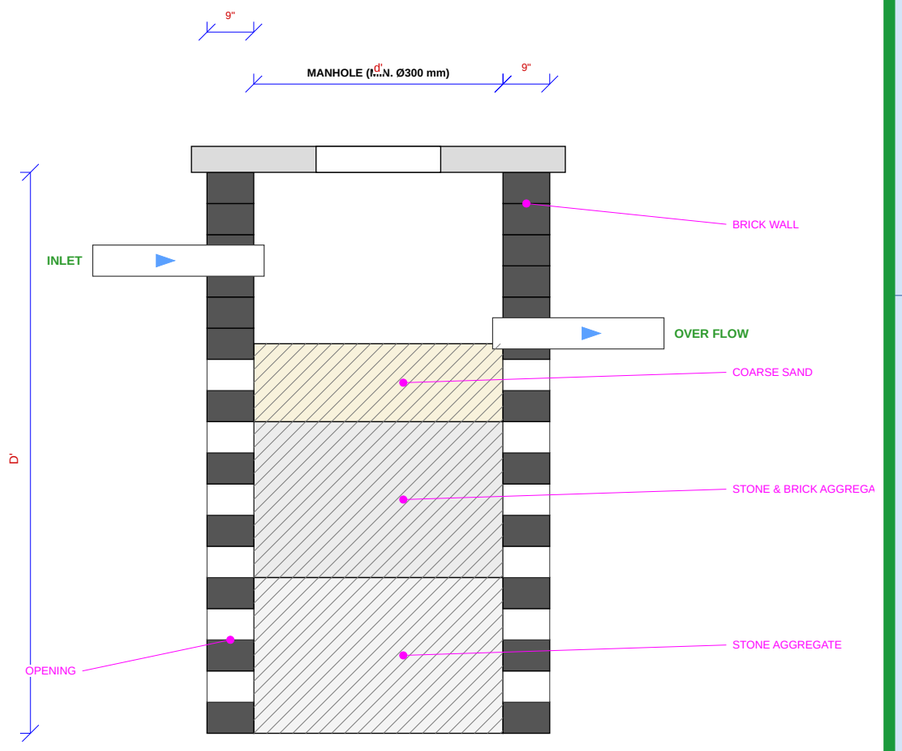



SECTION X-X'

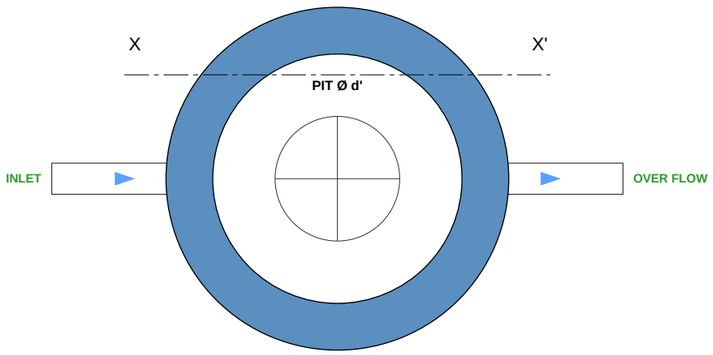



## TYPICAL PLAN AND SECTION OF WATER HARVESTING PIT (PROPOSED)

HARVESTING PIT (PROPOSED)  SCALE 1:30




SECTION X-X'





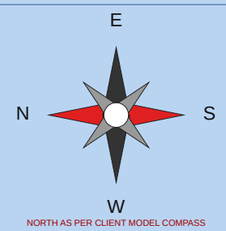
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| | |
|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-18** |

NOTE:

1. d' = 4'-0" clear, D' = 9'-0" as the DWG library standard (soak pit / harvesting pit).
2. Sizes subject to percolation test - NOT YET AVAILABLE.
3. Layer thicknesses indicative per MMH sample D-05 / D-06.
4. Keep soak pits >= 15 m from the bore well (site check).




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SOAK PIT & WATER HARVESTING PIT - TYPICAL PLAN & SECTION

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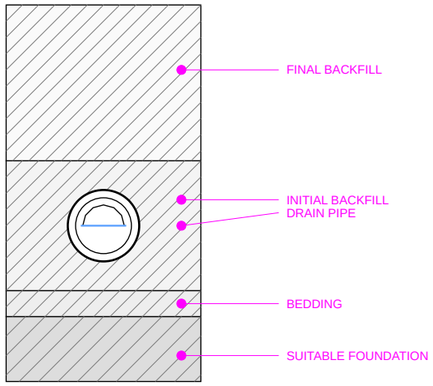
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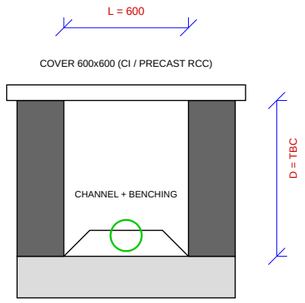
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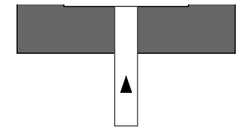



**INSTALLATION OF GROUND DRAIN PIPE**

(TRENCH WIDTH / COVER / BEDDING THICKNESS: TBC AT SITE)

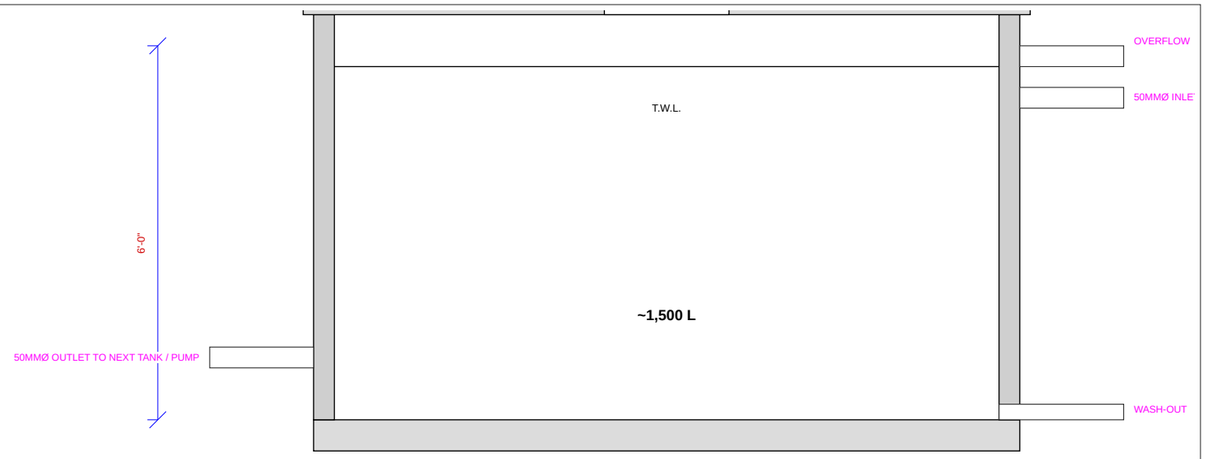



**SECTION X-X'**



INLET (BRANCH)

**PLAN OF INSPECTION CHAMBER**




**SECTION OF UG WATER TANK (NE ZONE)**

10'-8" x 1'-0" x 6'-0" CLEAR (ASSUMED); 4" RCC WALLS - STRUCTURAL TO CONFIRM

**PIPE INSTALLATION NOTES**

1. Excavate to the required depth; compact the foundation.
2. Lay 110MMØ PVC pipes on a sand / fine aggregate bed, socket end facing upstream.
3. Maintain the slope shown on the plan (1:100 per MMH table (1/8" per foot).
4. Initial backfill in layers, hand compacted, no stones / debris next to the pipe.
5. Water / smoke test before final backfill.
6. Chambers: 9" brick in cement mortar, rendered inside; channel with half-round pipe + benching to the next run.
7. Pipe crossings (D-07): water / rain / rising main above S.W.P., min. 150 mm.
8. Tanks: inlet with float valve, overflow + wash-out, vent, 600x600 manhole, tight cover; clean and disinfect before use.
9. All dimensions / levels marked TBC to be confirmed at site before execution.

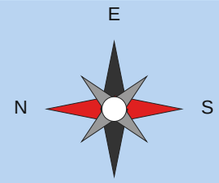
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Architects and Interior Designers Landscape Designer & 3D Modeling Services
Block - A , 301-302 Corporate house Opposite Lemon Tree Hotel, RNT Marg, Indore, Madhya Pradesh 452001
0731-6803999

| | |
|---|---|
| Client Name | : Mr. Sanjay |
| Project Type | : Residential |
| Date | : Oct 20, 2026 |
| Sheet No. | : **D-19** |

NOTE:

1. Trench: bed on suitable foundation; bedding + initial backfill of sand / fine aggregate, no sharp stones against the pipe.
2. Chambers 450x450 mm clear at changes of direction / junctions; invert levels TBC.
3. Tank wall material and thickness TBC (RCC or brick).
4. All pipe sleeves through slabs / walls with structural approval.




NORTH AS PER CLIENT MODEL COMPASS

DRAIN PIPE INSTALLATION, INSPECTION CHAMBER & WATER TANK DETAILS

| REV | DATE | DESCRIPTION |
|---|---|---|
| R1 | 20-10-2026 | Final - client model PDF |

PREPARED: MEP / DRAINAGE CHECKED: -

**STATUS: FOR REVIEW - NOT FOR CONSTRUCTION**

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)

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## FIXTURE SCHEDULE

| SR | ITEM | SIZE / TYPE | LOCATION | NOS |
|---|---|---|---|---|
| 1 | WESTERN W.C. + CISTERN | FLOOR MOUNTED, 110 MM OUTLET | GF TOILETS 1, 2; FF TOILETS 3, 4 | 4 |
| 2 | WASH BASIN | WALL HUNG, 50 MM WASTE | ON WET WALL (4) + FF DRESS BASIN (1) | 5 |
| 3 | SHOWER MIXER + ROSE | WALL MIXER H+C | EACH TOILET | 4 |
| 4 | GEYSER (MEP ADDED) | CAPACITY TO CONFIRM | EACH TOILET | 4 |
| 5 | NAHANI TRAP (MEP ADDED) | 100 x 100, 50 SEAL | SHOWER CORNER, EACH TOILET | 4 |
| 6 | KITCHEN SINK + R.O. | SINGLE / DOUBLE BOWL | GF KITCHEN, GF LIVING-CUM-KITCHEN, FF KITCHEN | 3 |
| 7 | GULLY TRAP | 110 MM | OUTSIDE GF KITCHEN SOUTH WALL | 1 |
| 8 | FLOOR DRAIN | 110 MM | FF SIT-OUT, FF WASH AREA | 2 |
| 9 | R.W.P. AT COLUMNS | 110 MM | SOUTH CORNERS, FRONT + BACK | 2 |

## PIPE SCHEDULE

| PIPE | SIZE | MATERIAL | WHERE |
|---|---|---|---|
| C.W.S. MAIN / RISER | 50 MMØ | UPVC | TERRACE MAIN, 3 RISERS (BOX AT COLUMN, DUCT, KITCHEN) |
| C.W.S. RISING MAIN | 32 MMØ | UPVC | PUMP P1 TO OHT |
| OHT INLET | 25 MMØ | UPVC | FLOAT VALVE |
| C.W.S. BRANCH | 20 MMØ | UPVC | STOP VALVE TO FIXTURES |
| H.W.S. BRANCH | 20 MMØ | CPVC | GEYSER TO MIXER AND BASIN |
| S.W.P. | 110 MMØ | PVC | W.C. TO STACK, STACK TO SEPTIC |
| W.W.P. | 110 MMØ | PVC | BASIN, NAHANI TRAP, SINKS, FLOOR DRAINS |
| R.W.P. | 110 MMØ | PVC | TERRACE R1, R2 TO HARVESTING PIT |
| INLET FROM BORE WELL | 50 MMØ | UPVC | BORE WELL TO UG TANK |

| TANK / PIT | SIZE | ZONE |
|---|---|---|
| SEPTIC TANK | 7'-0" x 4'-0" x 7'-0" | NW (CLIENT) |
| UG WATER TANK | 10'-8" x 1'-0" x 6'-0" (ASSUMED, ~1,500 L) | NE |
| HARVESTING PIT | Ø3'-0" x 9'-0" (ASSUMED) | FRONT GARDEN |
| OVERHEAD TANK | 1 x 1000 L (ASSUMED) | SW |
| INSPECTION CHAMBERS | IC-N, IC-J, IC-S (450 x 450) | OUTSIDE HOUSE |

| STACK | SERVES | LOCATION |
|---|---|---|
| A S.W.P. | GF TOILET 1 | BOX, BACK WALL, COLUMN |
| B S.W.P. | GF TOILET 2 + FF TOILET 3 | BOX, LOBBY COLUMN |
| C S.W.P. | FF TOILET 4 + GF SINK | FF DUCT / GF CORNER BOX |
| D W.W.P. | FF KITCHEN SINK | SOUTH WALL |
| E W.W.P. | FF WASH AREA | BOX, BACK WALL |

# FIXTURE & PIPE SCHEDULE

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Architects and Interior Designers Landscape
Designer & 3D Modeling Services
Block - A , 301-302 Corporate house Opposite Lemon
Tree Hotel, RNT Marg, Indore, Madhya Pradesh 452001
0731-6803999

Client Name : Mr. Sanjay
Project Type : Residential
Date : Oct 20, 2026
Sheet No. : **D-20**

NOTE:

1. Quantities counted from the plan sheets; plumber to verify at site.
2. Fixtures and sizes as the client model; MEP additions marked.

E
N S
W
NORTH AS PER CLIENT MODEL COMPASS

FIXTURE & PIPE SCHEDULE

| REV | DATE | DESCRIPTION |
|---|---|---|
| R1 | 20-10-2026 | Final - client model PDF |

PREPARED: MEP / DRAINAGE CHECKED: -
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