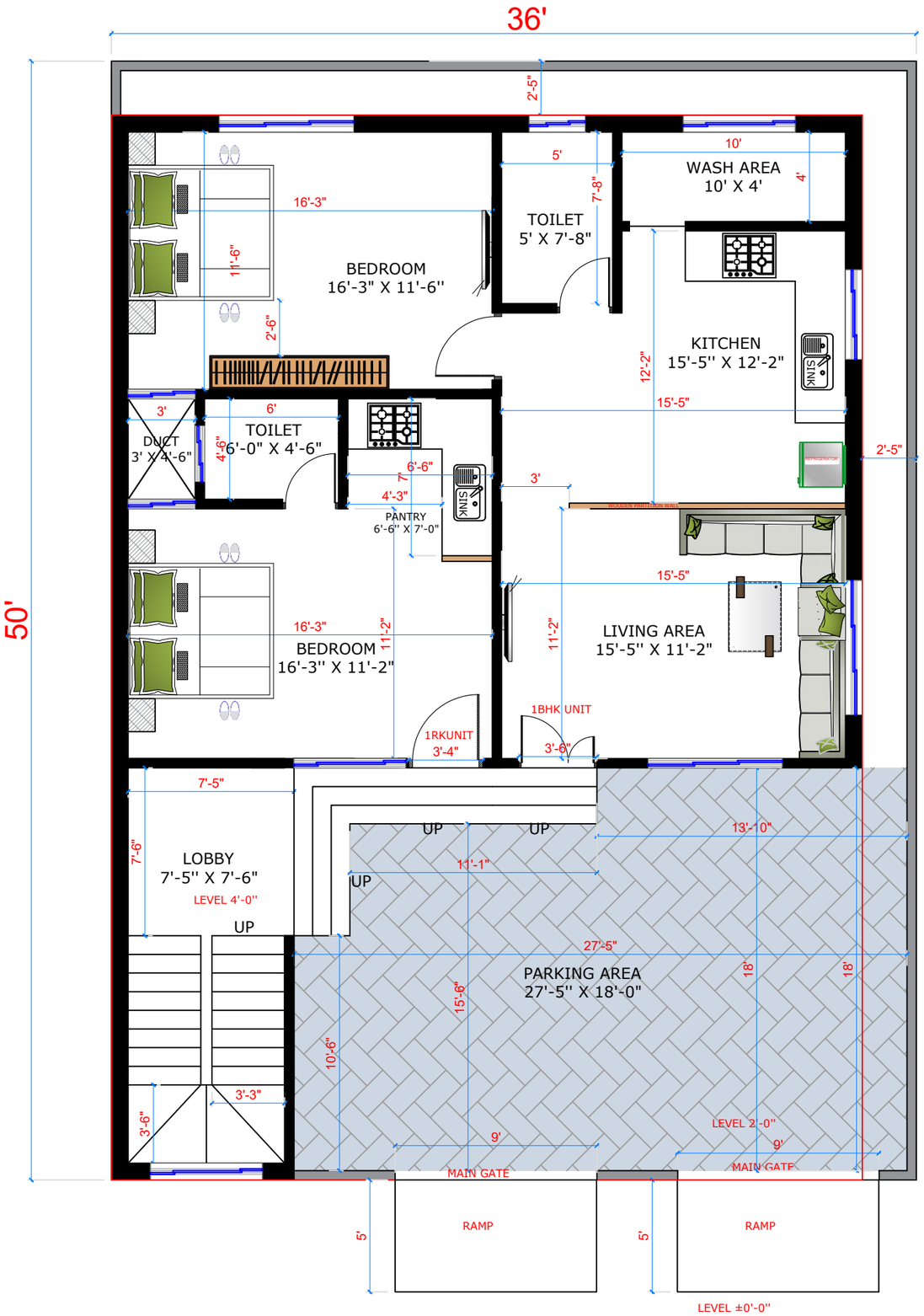
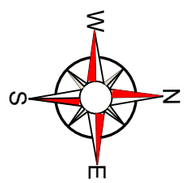
3D ELEVATION





GROUND FLOOR PLAN

SLAB AREA -1598 Sq.ft



HousedesignIndia

Block - A , 301-302 Corporate house Opposite Lemon Tree Hotel, RNT Marg, Indore, Madhya Pradesh 452001
0731-2580777

Client Nam

Project Type : Residential
Date : Jun 15, 2026
Sheet No. : P–001

NOTE:

Floor height:- 11'-6"INCLUDING SLAB

Staircase width:- 3'-3"

Riser:-6.57"

Tread:- 10"

Wall thickness:- Outer side:- 9"

Wall thickness:- Inner side:- 5"

Levels:- Mention on Floor Plan

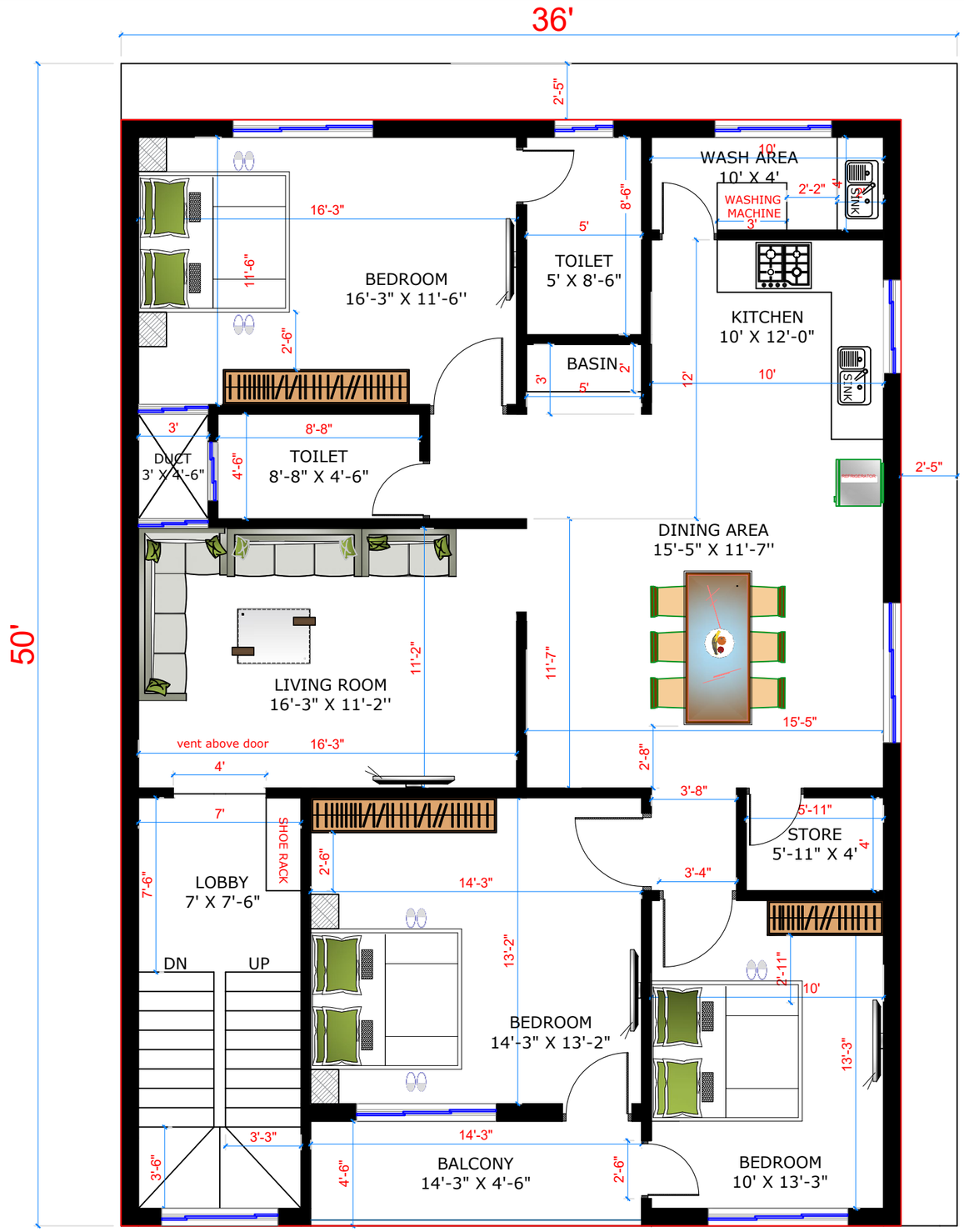
Setback:-No.

Reference Images:- No

Sloping roof:- No

Ramp Angle/Degree:- No

CITY:- Dehradun
STATE :- UL



FIRST FLOOR PLAN

SLAB AREA -1598 Sq.ft

HousedesignIndia

Block - A , 301-302 Corporate house Opposite Lemon Tree Hotel, RNT Marg, Indore, Madhya Pradesh 452001
0731-2580777

Client Name

Project Type : Residential
Date : Jun 15, 2026
Sheet No. : P–001

NOTE:

Floor height:- 11'-6''INCLUDING SLAB

Staircase width:- 3'-3''

Riser:-6.57''

Tread:- 10''

Wall thickness:- Outer side:- 9"

Wall thickness:- Inner side:- 5"

Levels:- Mention on Floor Plan

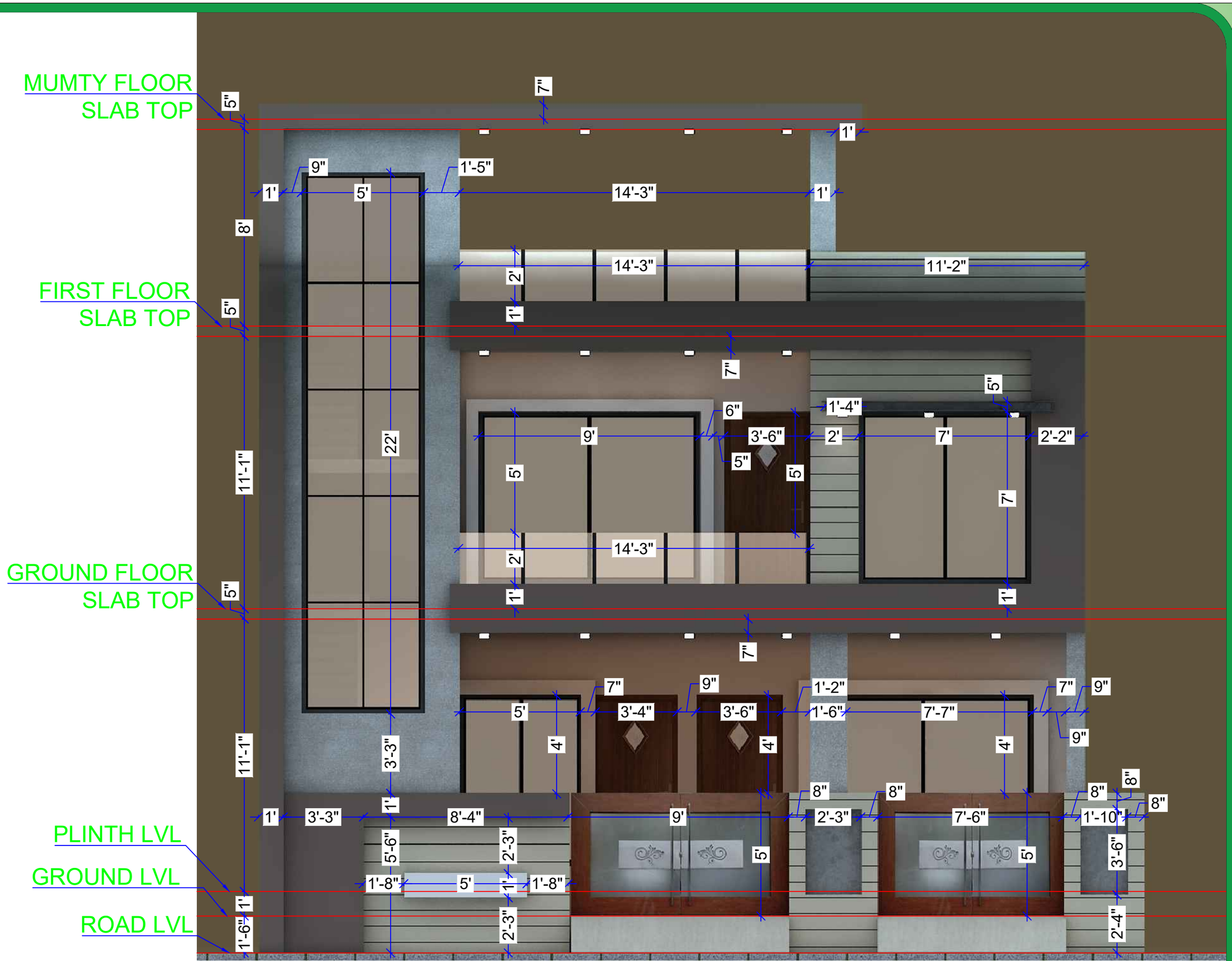
Setback:-No.

Reference Images:- No

Sloping roof:- No

Ramp Angle/Degree:- No

CITY:- Dehradun
STATE :- UL



FRONT VIEW ELEVATION

HousedesignIndia

makeMyhouse.com
Dream.Design.Dwell

Client Name
Project Type
Date : Jul 06, 2026
Sheet No. : 001

NOTE:
"Dowel bars (Sariya) should extend outward from all front-facing beams in accordance with the 2D elevation design."

W
S
N
E

FRONT ELEVATION

Area Statement :



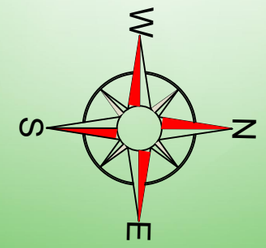
FRONT VIEW LEVEL

HousedesignIndia

makeMyhouse.com
Dream.Design.Dwell

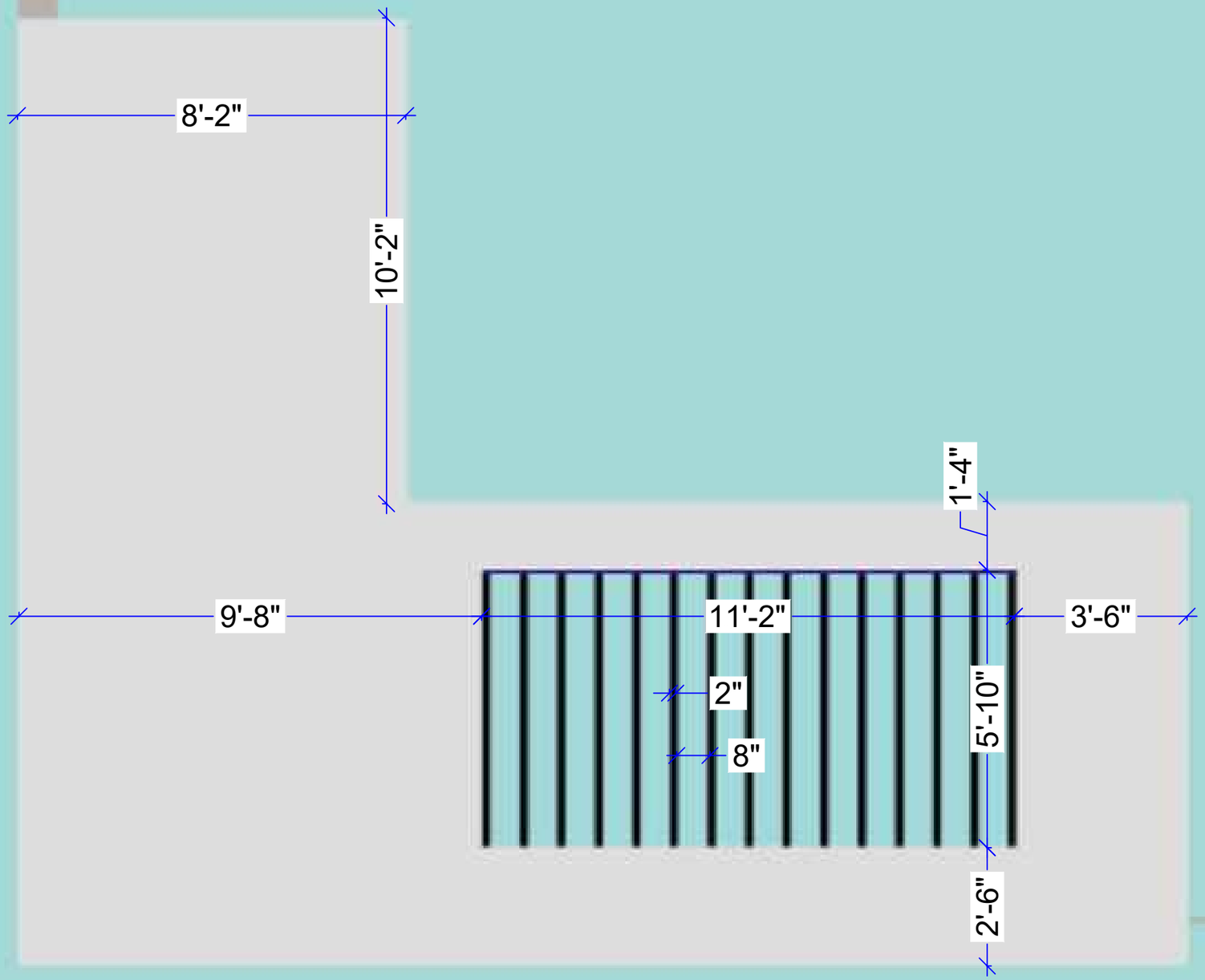
Client Name
Project Type
Date : Jul 06, 2026
Sheet No. : 001

NOTE:
"Dowel bars (Sariya) should extend outward from all front-facing beams in accordance with the 2D elevation design."



FRONT SIDE LEVEL

Area Statement :



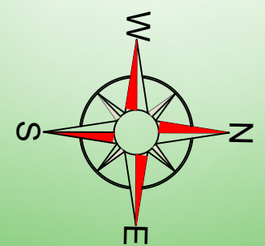
ROOF TOP OF PERGOLA DETAIL

HousedesignIndia

makeMyhouse.com
Dream.Design.Dwell

Client Name
Project Type
Date : Jul 06, 2026
Sheet No. : 001

NOTE:
"Dowel bars (Sariya) should extend outward from all front-facing beams in accordance with the 2D elevation design."



PROJECTION DETAIL

Area Statement :



1 **ASIAN PAINT ULTIMA**
NORMAL WHITE

2 **GROOVE PLASTER**
ASIAN PAINT ULTIMA
CREAM CARESS
COLOUR CODE -7835

3 **SAND FACE PLASTER**
ASIAN PAINT ULTIMA
pilgrim
COLOUR CODE -6129

4 ASIAN PAINT ULTIMA
blush
COLOUR CODE -L139

5 **ASIAN PAINT ULTIMA**
tuscan olive-n
COLOUR CODE -K283

6 **M.S PIPE 2"x 2"**

7 **M.S PIPE WITH**
TOUGHENED GLASS

8 **M.S GIRDER**

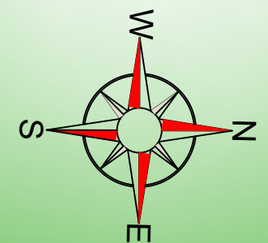
9 **FABRICATION GATE**

HousedesignIndia

makeMyhouse.com
Dream.Design.Dwell

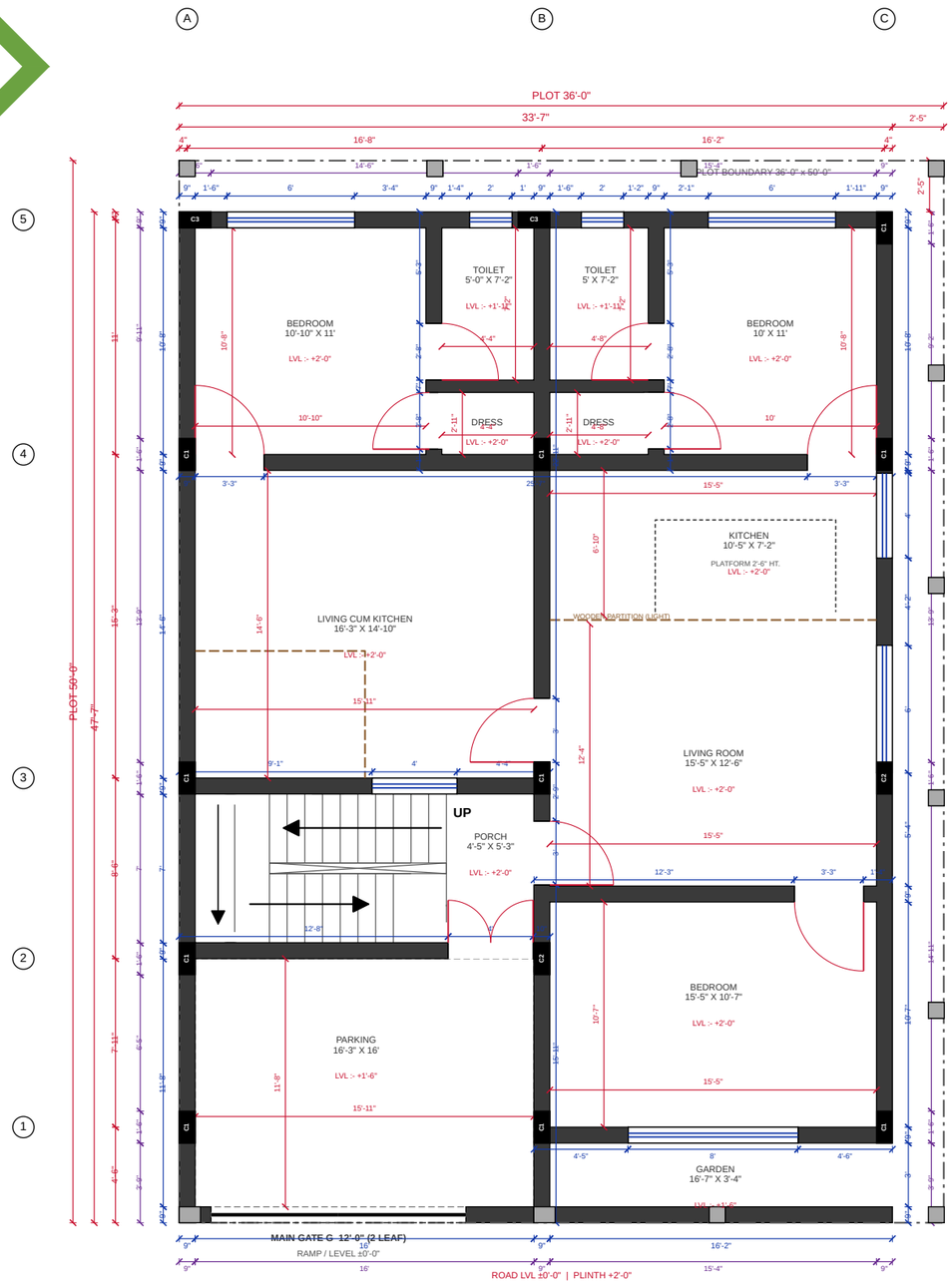
Client Name
Project Type
Date : Jul 06, 2026
Sheet No. : 001

NOTE:
"Dowel bars (Sariya) should extend outward from all front-facing beams in accordance with the 2D elevation design."

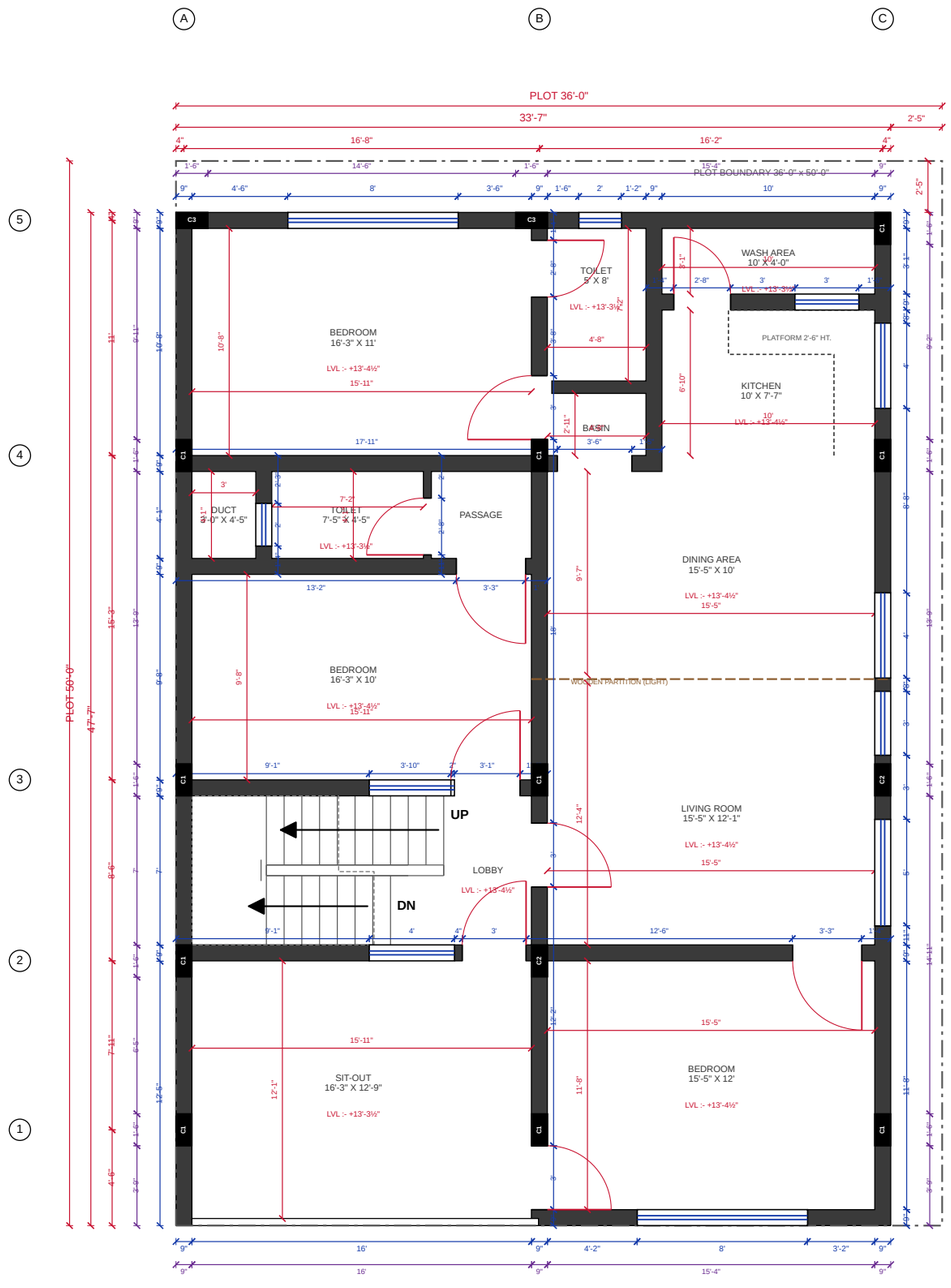


EXTERIOR MATERIAL DETAIL

Area Statement :



GROUND FLOOR DIMENSION PLAN



FIRST FLOOR DIMENSION PLAN

DESIGN: DIMENSION PLAN

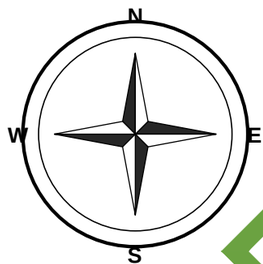
NOTE :

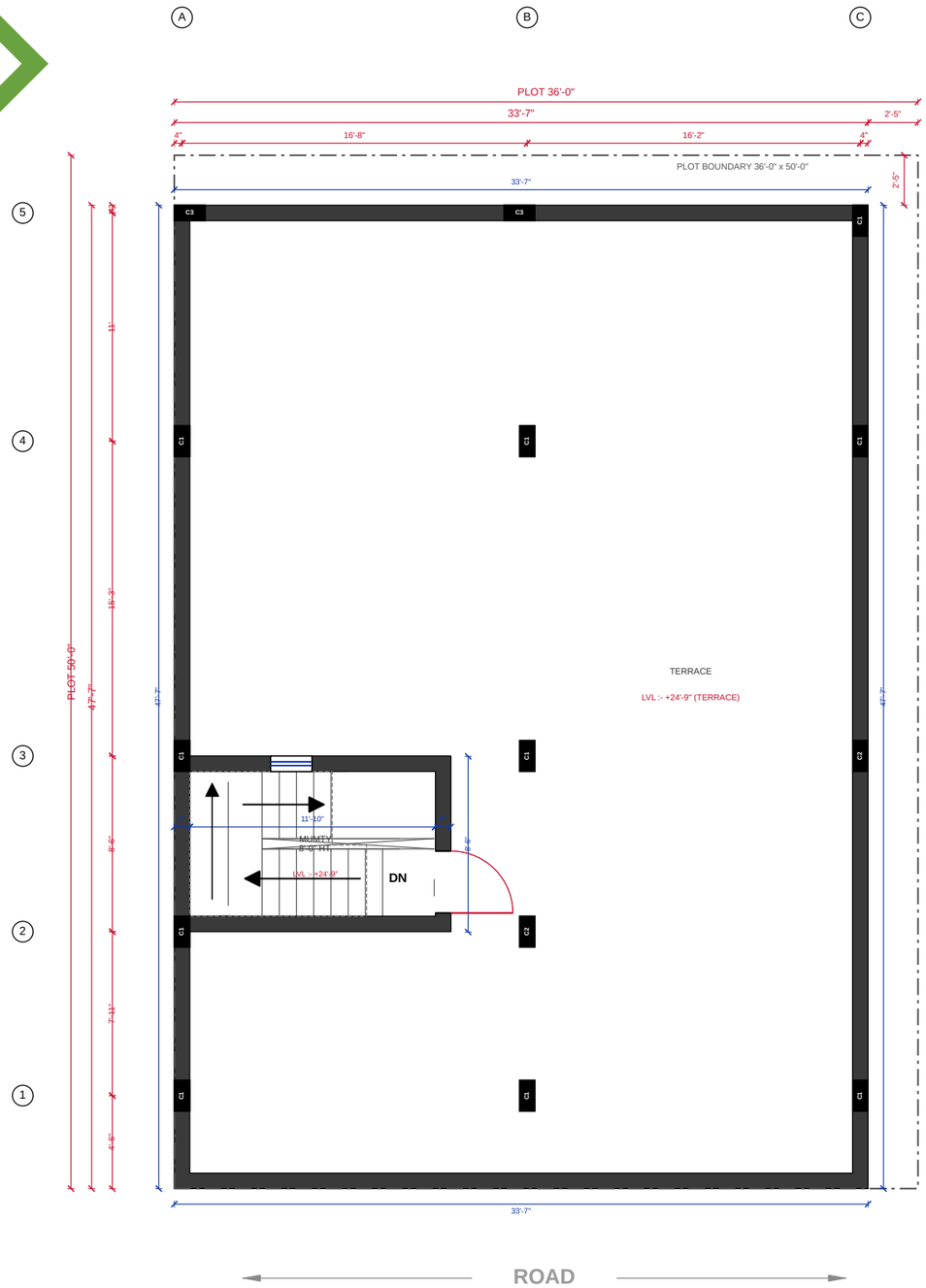
BRICK LAYOUT PLAN FOR MASON.
ALL DIMENSIONS IN INCHES (FT-IN),
FACE TO FACE OF WALLS / OPENINGS.
WALLS AS DRAWN IN THE CLIENT DWG:
9" BANDS (STRUCTURE SET: 9" OUTER
+ SPINE, 4.5" OTHERS - SEE NOTE).
BLUE = WALL / OPENING CHAINS,
VIOLET = COLUMN CHAIN,
RED = ROOM CHAINS + GRID C/C.
NORTH UP; ROAD ON THE SOUTH.
LEVELS FROM ROAD LVL ±0'-0".

COLUMNS AS S-01 / S-02 OF THE
STRUCTURE SET (E-W x N-S):
C1 = 9" x 18" (10 NOS)
C2 = 9" x 18" (2 NOS, HEAVY)
C3 = 18" x 9" (2 NOS)
14 FRAME COLUMNS ON EVERY FLOOR;
GREY = BOUNDARY WALL / GATE COLUMNS
(12 NOS, NOT PART OF THE FRAME).
COLUMN SIZES + CLEAR GAPS ARE IN
THE VIOLET CHAIN.

Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-01

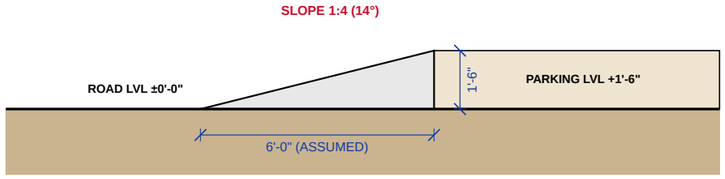




TERRACE DIMENSION PLAN

RAMP SECTION DETAIL (ASSUMED 1:4)

LEVEL	HEIGHT FROM ROAD
ROAD / MAIN GATE	±0'-0"
PARKING / GARDEN	+1'-6"
PLINTH / GROUND FLOOR FFL	+2'-0"
FIRST FLOOR FFL	+13'-4-1/2"
TERRACE	+24'-9"
PARAPET TOP (3'-0")	+27'-9"
MUMTY SLAB TOP (8'-0" HEAD ROOM)	+33'-2"



GATE 12'-0" WIDE; RAMP LENGTH NOT IN THE DWG - ASSUMED 6'-0"

DESIGN: TERRACE PLAN LEVELS + RAMP

NOTE :

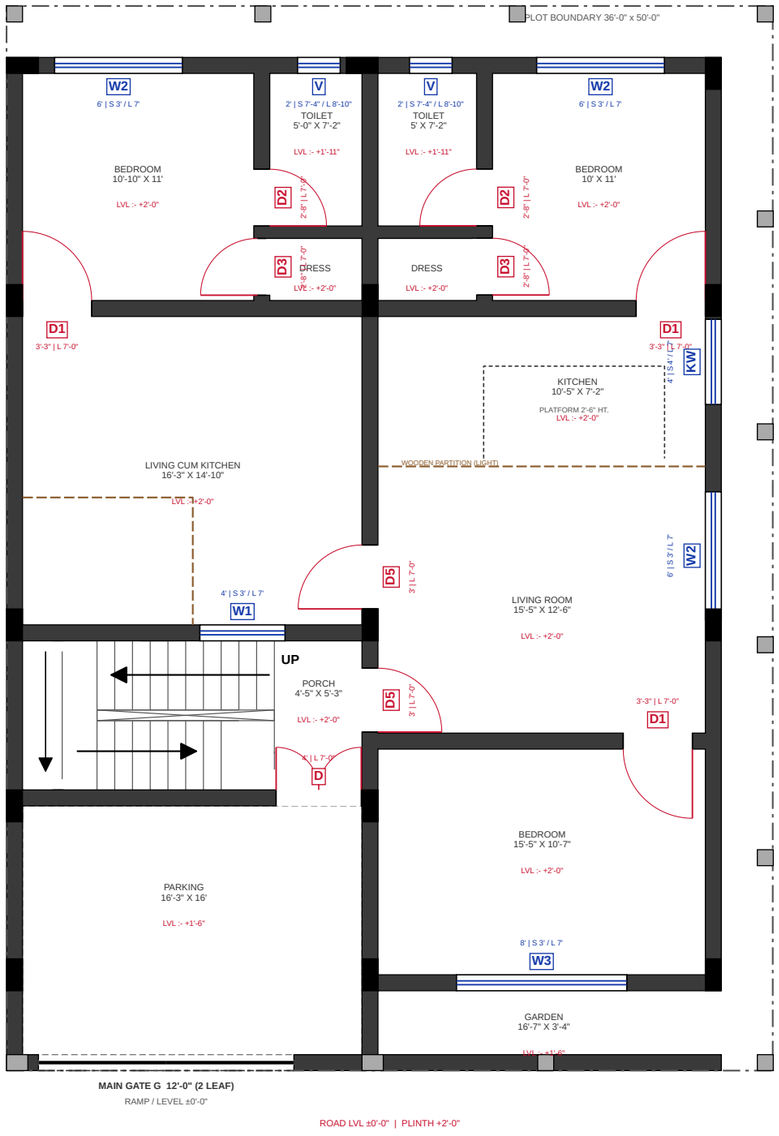
BRICK LAYOUT PLAN FOR MASON.
ALL DIMENSIONS IN INCHES (FT-IN),
FACE TO FACE OF WALLS / OPENINGS.
WALLS AS DRAWN IN THE CLIENT DWG:
9" BANDS (STRUCTURE SET: 9" OUTER
+ SPINE, 4.5" OTHERS - SEE NOTE).
BLUE = WALL / OPENING CHAINS,
VIOLET = COLUMN CHAIN,
RED = ROOM CHAINS + GRID C/C.
NORTH UP; ROAD ON THE SOUTH.
LEVELS FROM ROAD LVL ±0'-0".

TERRACE: PARAPET 3'-0" HIGH (9"),
MUMTY (STAIR HEAD ROOM) 8'-0" HIGH,
SLAB TOP SLOPE 1:100 TO OUTLETS.
TERRACE ASSUMED TO COVER THE WHOLE
FOOTPRINT (NO F.F. PLAN FOR S.F.).
COLUMNS AS S-01 / S-02 OF THE
STRUCTURE SET (E-W x N-S):
C1 = 9" x 18" (10 NOS)
C2 = 9" x 18" (2 NOS, HEAVY)
C3 = 18" x 9" (2 NOS)
14 FRAME COLUMNS ON EVERY FLOOR;
GREY = BOUNDARY WALL / GATE COLUMNS
(12 NOS, NOT PART OF THE FRAME).
COLUMN SIZES + CLEAR GAPS ARE IN
THE VIOLET CHAIN.

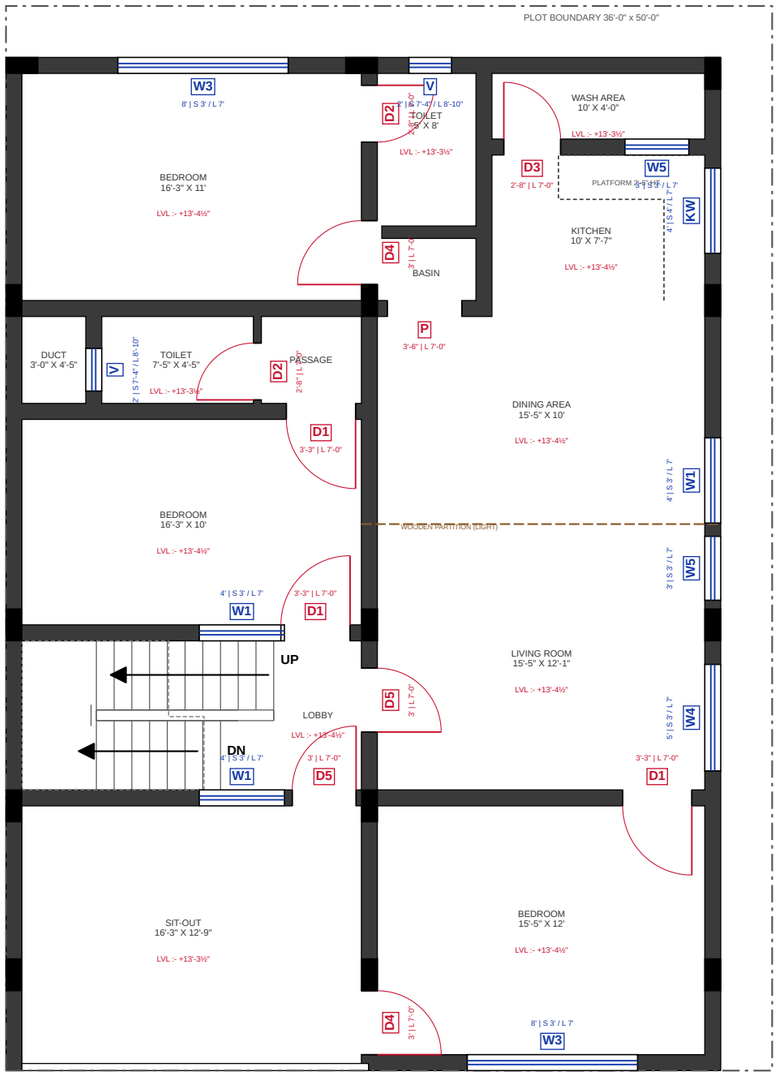
Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-02





GROUND FLOOR DOOR WINDOW LEGEND



FIRST FLOOR DOOR WINDOW LEGEND

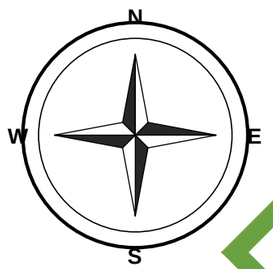
DESIGN: D & W LEGEND

NOTE :

TAG = TYPE (SEE W-05 / W-06).
S = SILL HT. FROM FFL,
L = LINTEL BOTTOM FROM FFL.
ALL LINTELS 7'-0" FROM FFL.
KITCHEN WINDOW SILL 4'-0",
OTHER WINDOWS SILL 3'-0",
VENTILATOR SILL 7'-4".
DOOR WIDTHS = STANDARD SIZES;
EXTRA PLAN GAP FILLED AS PIER.
DOORS OPEN INTO THE ROOM SERVED (SWINGS AS IN THE CLIENT DWG WHERE DRAWN).
P = OPENING WITHOUT SHUTTER.
DOORS NOT DRAWN IN THE DWG ARE ASSUMED - SEE W-05 NOTE.
WINDOWS / VENTILATORS ARE ONLY THE ONES DRAWN IN THE CLIENT DWG.
COLUMNS SHOWN BLACK (SEE W-01).

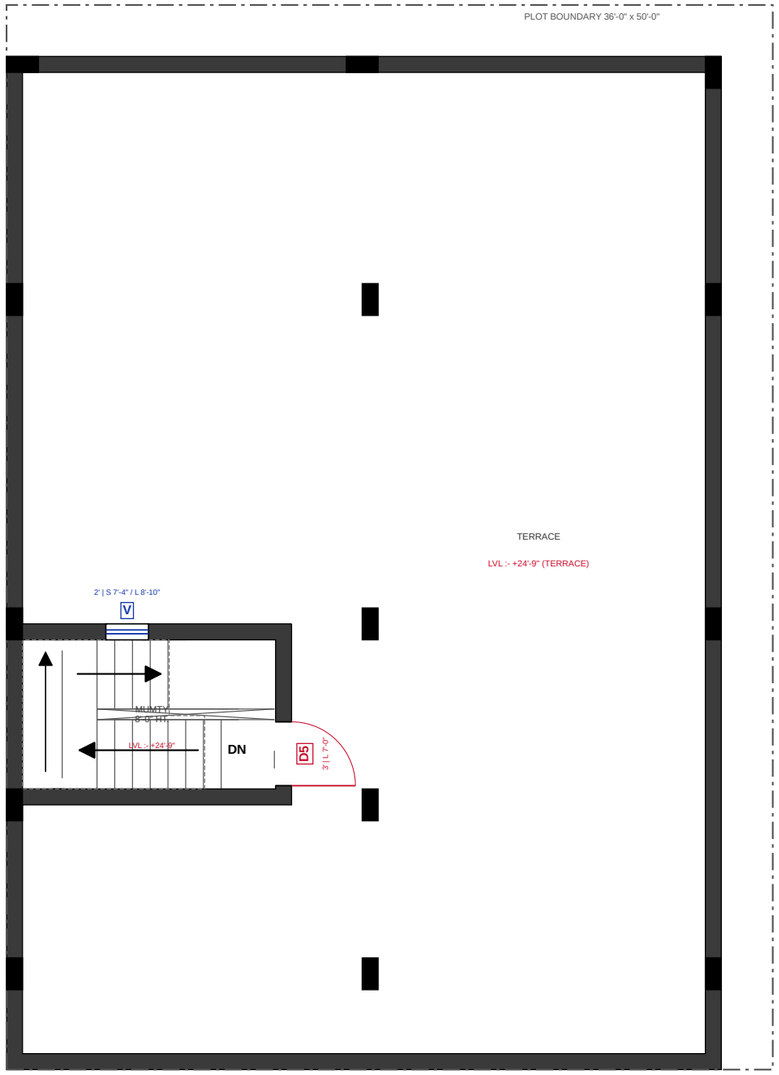
Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-03



DOOR / WINDOW TAG KEY (ALL FLOORS)

TAG	SIZE W X H	SILL	LINTEL	SWING / FINISH
G	10' X 6'	-	-	2 LEAF GATE, OPENS INWARDS
D	4' X 7'	-	7'	DOUBLE LEAF, OPENS INTO PORCH
D1	3'-3" X 7'	-	7'	OPENS INTO THE BEDROOM
D4	3' X 7'	-	7'	OPENS INTO THE BEDROOM (NEXT TO COLUMN)
D2	2'-8" X 7'	-	7'	OPENS INTO THE TOILET
D3	2'-8" X 7'	-	7'	OPENS INTO THE BEDROOM (DRESS)
D5	3' X 7'	-	7'	OPENS INTO THE ROOM / LOBBY (MUMTY: OUT)
P	3'-6" X 7'	-	7'	NO SHUTTER
W1	4' X 4'	3'	7'	ALU. SLIDING
W2	6' X 4'	3'	7'	ALU. SLIDING
W3	8' X 4'	3'	7'	ALU. SLIDING
W4	5' X 4'	3'	7'	ALU. SLIDING
W5	3' X 4'	3'	7'	ALU. SLIDING
KW	4' X 3'	4'	7'	ALU. SLIDING, SILL 4'-0"
V	2' X 1'-6"	7'-4"	8'-10"	ALU. LOUVRES + EXHAUST FAN



ROAD

TERRACE DOOR WINDOW LEGEND

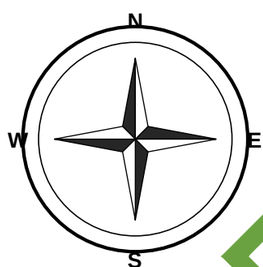
DESIGN: D & W LEGEND

NOTE :

TAG = TYPE (SEE W-05 / W-06).
S = SILL HT. FROM FFL,
L = LINTEL BOTTOM FROM FFL.
ALL LINTELS 7'-0" FROM FFL.
KITCHEN WINDOW SILL 4'-0",
OTHER WINDOWS SILL 3'-0",
VENTILATOR SILL 7'-4".
DOOR WIDTHS = STANDARD SIZES;
EXTRA PLAN GAP FILLED AS PIER.
DOORS OPEN INTO THE ROOM SERVED (SWINGS AS IN THE CLIENT DWG WHERE DRAWN).
P = OPENING WITHOUT SHUTTER.
DOORS NOT DRAWN IN THE DWG ARE ASSUMED - SEE W-05 NOTE.
WINDOWS / VENTILATORS ARE ONLY THE ONES DRAWN IN THE CLIENT DWG.
COLUMNS SHOWN BLACK (SEE W-01).

Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-04



DOOR & WINDOW SCHEDULE - FLOOR-WISE

GROUND FLOOR SCHEDULE (G.F.)

S.N.	TYPE	SIZE W X H	SILL	LINTEL	LOCATION	QTY
1	G	10' X 6'	-	-	MAIN GATE (BOUNDARY, M.S.)	1
2	D	4' X 7'	-	7'	MAIN DOOR (DOUBLE LEAF)	1
3	D1	3'-3" X 7'	-	7'	ROOM DOOR (BEDROOM)	3
4	D2	2'-8" X 7'	-	7'	TOILET DOOR	2
5	D3	2'-8" X 7'	-	7'	DRESS DOOR	2
6	D5	3' X 7'	-	7'	KITCHEN / PASSAGE / MUMTY DOOR	2
7	W1	4' X 4'	3'	7'	WINDOW	1
8	W2	6' X 4'	3'	7'	WINDOW	3
9	W3	8' X 4'	3'	7'	WINDOW	1
10	KW	4' X 3'	4'	7'	KITCHEN WINDOW	1
11	V	2' X 1'-6"	7'-4"	8'-10"	VENTILATOR	2
					TOTAL	19

TERRACE SCHEDULE (TER.)

S.N.	TYPE	SIZE W X H	SILL	LINTEL	LOCATION	QTY
1	D5	3' X 7'	-	7'	KITCHEN / PASSAGE / MUMTY DOOR	1
2	V	2' X 1'-6"	7'-4"	8'-10"	VENTILATOR	1
					TOTAL	2

FIRST FLOOR SCHEDULE (F.F.)

S.N.	TYPE	SIZE W X H	SILL	LINTEL	LOCATION	QTY
1	D1	3'-3" X 7'	-	7'	ROOM DOOR (BEDROOM)	3
2	D4	3' X 7'	-	7'	BEDROOM DOOR 3'-0" (NEXT TO COLUMN)	2
3	D2	2'-8" X 7'	-	7'	TOILET DOOR	2
4	D3	2'-8" X 7'	-	7'	DRESS DOOR	1
5	D5	3' X 7'	-	7'	KITCHEN / PASSAGE / MUMTY DOOR	2
6	P	3'-6" X 7'	-	7'	OPENING (NO SHUTTER)	1
7	W1	4' X 4'	3'	7'	WINDOW	3
8	W3	8' X 4'	3'	7'	WINDOW	2
9	W4	5' X 4'	3'	7'	WINDOW	1
10	W5	3' X 4'	3'	7'	WINDOW	2
11	KW	4' X 3'	4'	7'	KITCHEN WINDOW	1
12	V	2' X 1'-6"	7'-4"	8'-10"	VENTILATOR	2
					TOTAL	22

QTY = TOTAL ON THE FLOOR. COMBINED ORDER TABLE ON THE NEXT SHEET.

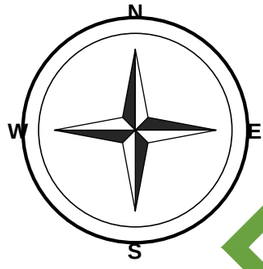
DESIGN: D & W SCHEDULE FLOOR-WISE

NOTE :

SIZES = MASONRY OPENINGS.
LINTEL 7'-0" FROM FFL (V 8'-10").
SILL 3'-0", KITCHEN 4'-0", V 7'-4".
DOORS: MAIN 4'-0", BEDROOM 3'-3" (3'-0" D4 NEXT TO COLUMNS), TOILET / DRESS 2'-8", PASSAGE / MUMTY 3'-0".
ASSUMED (NOT DRAWN IN THE DWG):
PARKING-PORCH OPENING 4'-0" (G.F.),
BEDROOM ENTRY DOORS G.F. x2,
F.F. BEDROOM B DOOR, F.F. BASIN OPENING. CONFIRM WITH THE CLIENT.

Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-05



COMBINED D & W SCHEDULE (G.F. + F.F. + TERRACE) - ORDER QUANTITY

COMBINED SCHEDULE

S.N.	TYPE	SIZE W X H	SILL	LINTEL	LOCATION	G.F.	F.F.	TER.	TOTAL
1	G	10' X 6'	-	-	MAIN GATE (BOUNDARY, M.S.)	1	0	0	1
2	D	4' X 7'	-	7'	MAIN DOOR (DOUBLE LEAF)	1	0	0	1
3	D1	3'-3" X 7'	-	7'	ROOM DOOR (BEDROOM)	3	3	0	6
4	D4	3' X 7'	-	7'	BEDROOM DOOR 3'-0" (NEXT TO COLUMN)	0	2	0	2
5	D2	2'-8" X 7'	-	7'	TOILET DOOR	2	2	0	4
6	D3	2'-8" X 7'	-	7'	DRESS DOOR	2	1	0	3
7	D5	3' X 7'	-	7'	KITCHEN / PASSAGE / MUMTY DOOR	2	2	1	5
8	P	3'-6" X 7'	-	7'	OPENING (NO SHUTTER)	0	1	0	1
9	W1	4' X 4'	3'	7'	WINDOW	1	3	0	4
10	W2	6' X 4'	3'	7'	WINDOW	3	0	0	3
11	W3	8' X 4'	3'	7'	WINDOW	1	2	0	3
12	W4	5' X 4'	3'	7'	WINDOW	0	1	0	1
13	W5	3' X 4'	3'	7'	WINDOW	0	2	0	2
14	KW	4' X 3'	4'	7'	KITCHEN WINDOW	1	1	0	2
15	V	2' X 1'-6"	7'-4"	8'-10"	VENTILATOR	2	2	1	5
					GRAND TOTAL	19	22	2	43

FRAME / SHUTTER SPECIFICATION

TYPE	FRAME / SHUTTER
D	SAL WOOD FRAME 5"x3", 40MM PANEL SHUTTER, DOUBLE LEAF
D1, D4, D5	SAL WOOD FRAME 4"x2.5", FLUSH DOOR
D2, D3	WPC FRAME + WPC SHUTTER (TOILET / DRESS)
P	OPENING - NO FRAME / SHUTTER (ARCH FINISH)
G	M.S. FRAME + M.S. SHEET / GRILL GATE, 2 LEAVES
W1-W5, KW	ALU. SLIDING + M.S. GRILL
V	ALU. LOUVERS + EXHAUST FAN CUT-OUT

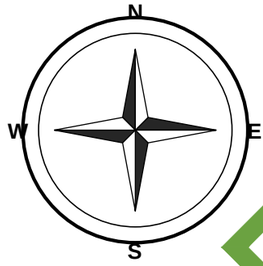
DESIGN: D & W SCHEDULE COMBINED + SPEC

NOTE :

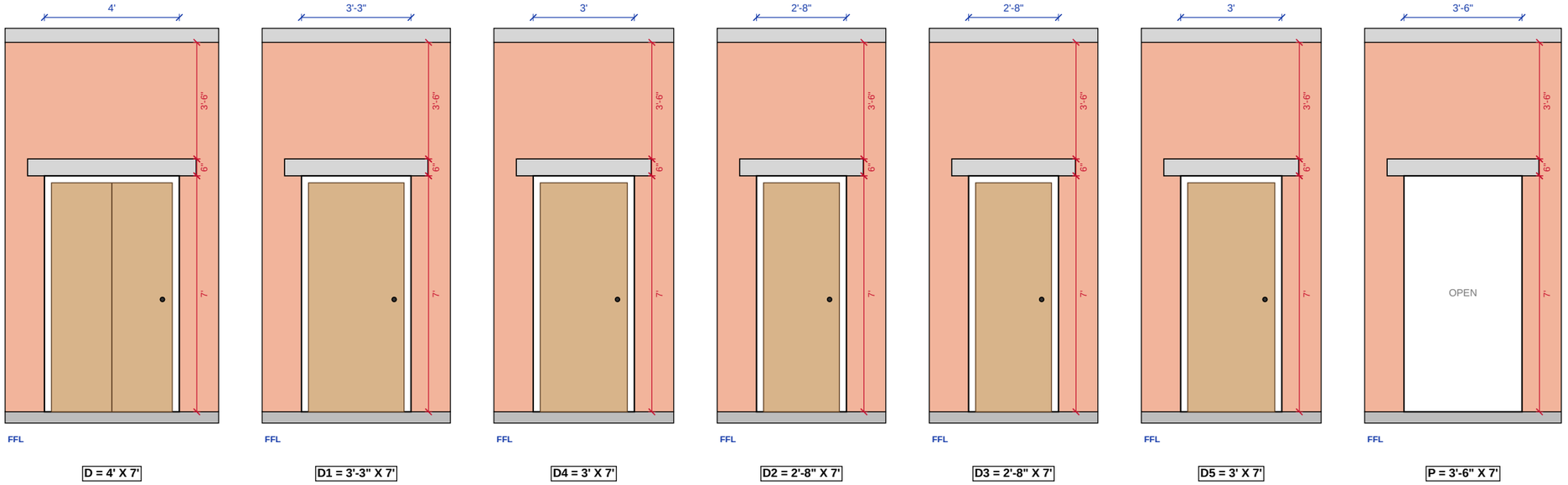
SIZES = MASONRY OPENINGS.
LINTEL 7'-0" FROM FFL (V 8'-10").
SILL 3'-0", KITCHEN 4'-0", V 7'-4".
DOORS: MAIN 4'-0", BEDROOM 3'-3" (3'-0" D4 NEXT TO COLUMNS), TOILET / DRESS 2'-8", PASSAGE / MUMTY 3'-0".
ASSUMED (NOT DRAWN IN THE DWG): PARKING-PORCH OPENING 4'-0" (G.F.), BEDROOM ENTRY DOORS G.F. x2, F.F. BEDROOM B DOOR, F.F. BASIN OPENING. CONFIRM WITH THE CLIENT.

Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-06



SECTIONAL DETAIL OF DOORS / OPENING (FFL TO SLAB)



D = 4' X 7' | D1 = 3'-3" X 7' | D4 = 3' X 7' | D2 = 2'-8" X 7' | D3 = 2'-8" X 7' | D5 = 3' X 7' | P = 3'-6" X 7'

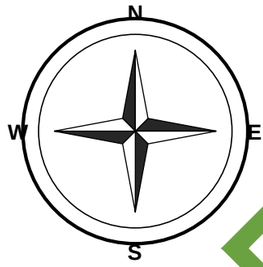
DESIGN: DOOR & WINDOW SECTION DETAILS

NOTE :

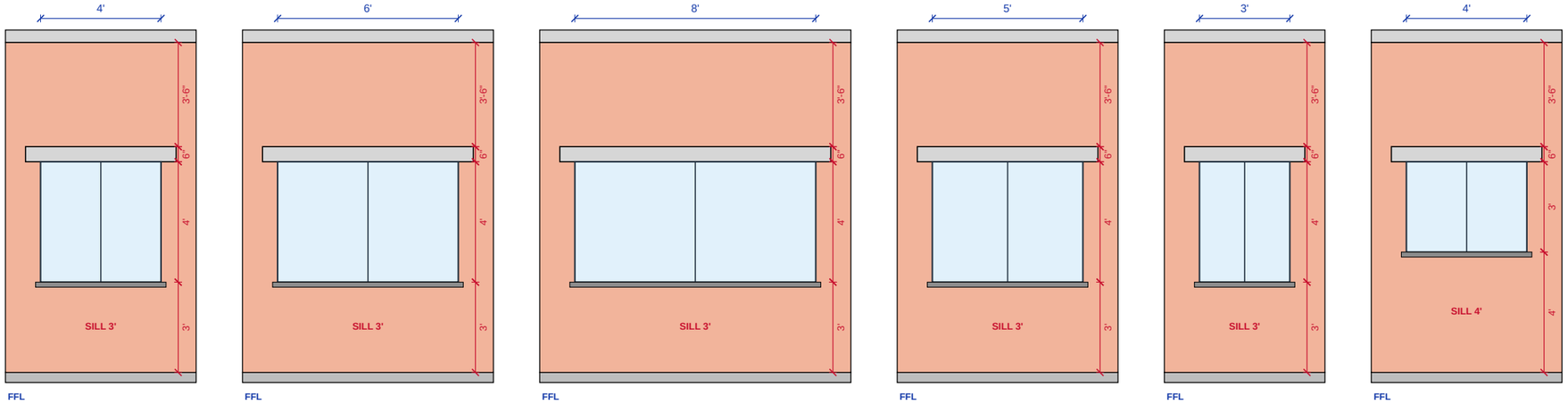
EACH OPENING DRAWN IN ITS WALL FROM FFL TO SLAB, WITH SILL, OPENING, LINTEL AND SLAB DEPTH DIMENSIONED.
LINTEL BOTTOM 7'-0" FROM FFL (VENTILATOR 8'-10").
RCC LINTEL 6" DEEP, 6" BEARING EACH SIDE.
CLEAR HEIGHT 10'-11-1/2" (11'-4-1/2" - 5" SLAB).

Client Name:
Project Type: Residential
Date: 21-10-2026

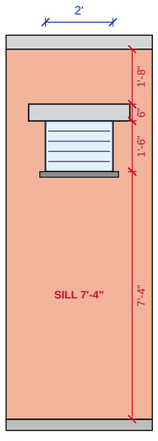
SHEET NO.: HDI-07



SECTIONAL DETAIL OF WINDOWS / VENTILATORS (FFL TO SLAB)



W1 = 4' X 4' | W2 = 6' X 4' | W3 = 8' X 4' | W4 = 5' X 4' | W5 = 3' X 4' | KW = 4' X 3'



V = 2' X 1'-6"

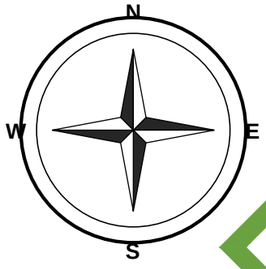
DESIGN: DOOR & WINDOW SECTION DETAILS

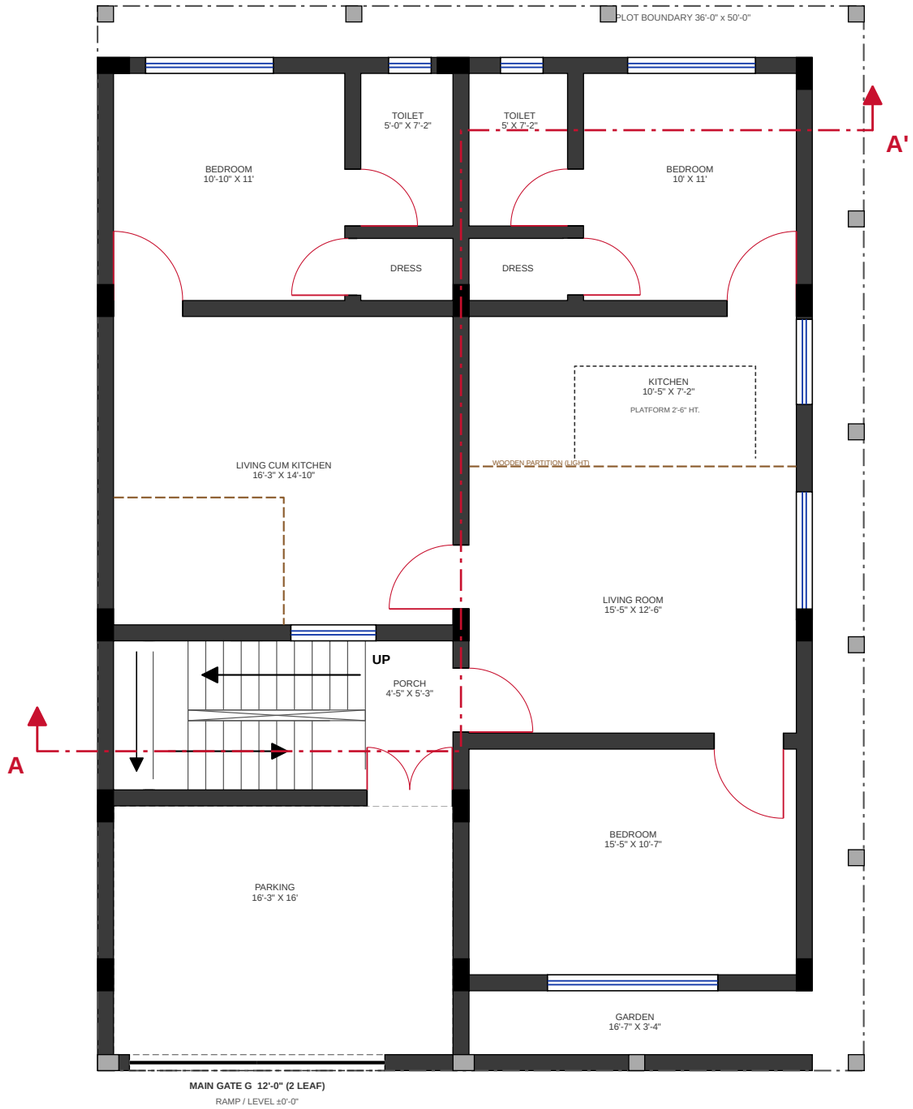
NOTE :

EACH OPENING DRAWN IN ITS WALL FROM FFL TO SLAB, WITH SILL, OPENING, LINTEL AND SLAB DEPTH DIMENSIONED.
LINTEL BOTTOM 7'-0" FROM FFL (VENTILATOR 8'-10").
RCC LINTEL 6" DEEP, 6" BEARING EACH SIDE.
CLEAR HEIGHT 10'-11-1/2" (11'-4-1/2" - 5" SLAB).

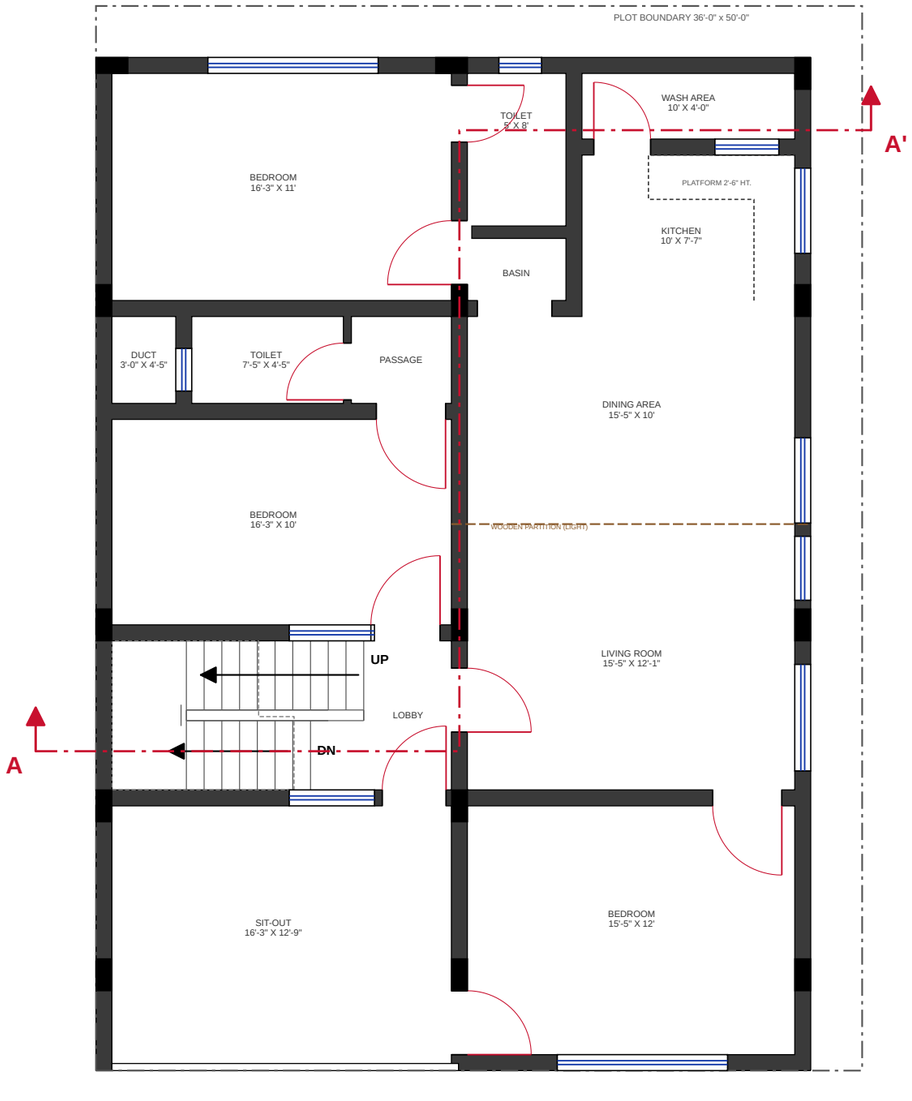
Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-08





GROUND FLOOR PLAN



FIRST FLOOR PLAN

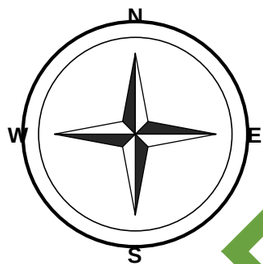
DESIGN: SECTION LINE PLAN

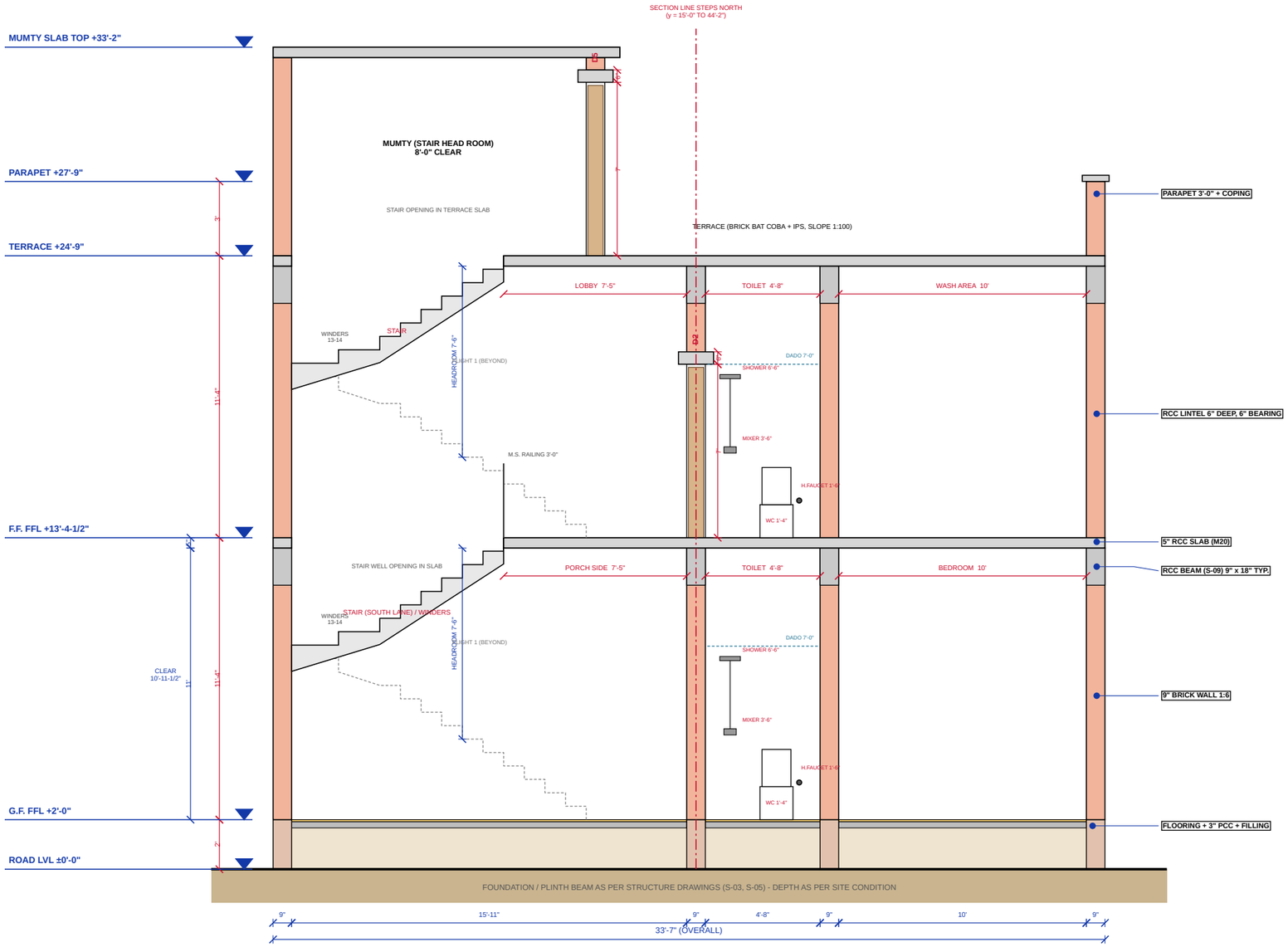
NOTE :

SECTION A-A' (W-10): STEPPED, LOOKING NORTH.
WEST OF THE SPINE WALL: CUT ALONG y = 15'-0" (STAIR, PORCH / LOBBY, MUMTY).
THE LINE STEPS NORTH ALONG THE SPINE WALL; EAST OF IT: CUT ALONG y = 44'-2" (TOILETS, NE BEDROOM / WASH AREA, FIXTURE HEIGHTS).
THE CUT AVOIDS THE COLUMNS.

Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-09





SECTION A-A' (STEPPED)

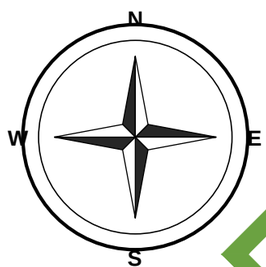
DESIGN: SECTION A-A' (STEPPED)

NOTE :

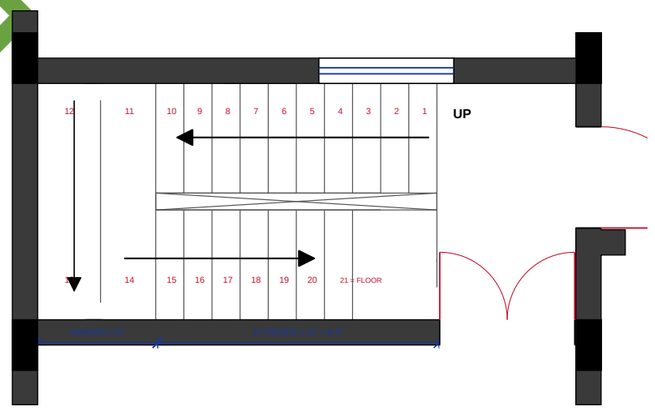
STEPPED SECTION A-A' LOOKING NORTH:
WEST OF THE SPINE WALL CUT ALONG y = 15'-0" (STAIR, PORCH, MUMTY); EAST OF IT ALONG y = 44'-2" (TOILETS, BEDROOM / WASH AREA).
LEFT = WEST, RIGHT = EAST.
FLOOR TO FLOOR 11'-4-1/2" INCL. 5" SLAB (CLEAR HEIGHT 10'-11-1/2").
ROAD LVL ±0'-0"; PLINTH / G.F. +2'-0";
F.F. +13'-4-1/2"; TERRACE +24'-9";
PARAPET 3'-0" (+27'-9"); MUMTY 8'-0" CLEAR + 5" SLAB (+33'-2").
LINTEL BOTTOM 7'-0" FROM FFL (ALL),
SILL 3'-0" / KITCHEN 4'-0", VENT. SILL 7'-4".
TOILET FLOOR SUNK 1"; DADO 7'-0".
RCC BEAMS 9" x 12"-24" (S-09) SHOWN 18" DEEP TYPICAL; SIZES AS STRUCTURE DWGS.
NO FOOTING SHOWN.
STAIR: 21 RISERS 6-1/2", TREADS 10" (W-11).
SEE W-09 FOR THE SECTION LINE.

Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-10



G.F. STAIR PLAN

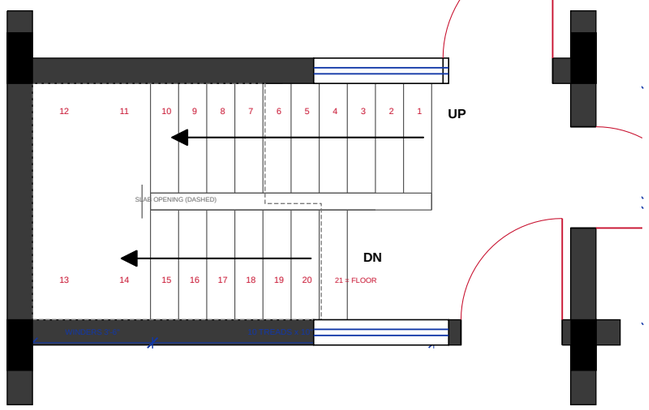


START R1 AT x = 12'-8" (FFL +2'-0")

MID LANDING +7'-5" (S-10)

ONE 'UP' AT THE START OF THE CLIMB

F.F. STAIR PLAN

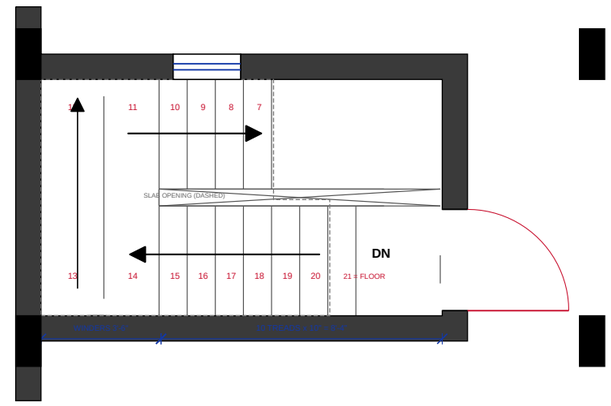


F.F. FFL +13'-4-1/2" (ARRIVAL AT R21)

UP = TO TERRACE, DN = TO G.F.

M.S. RAILING 3'-0" ALONG THE OPENING

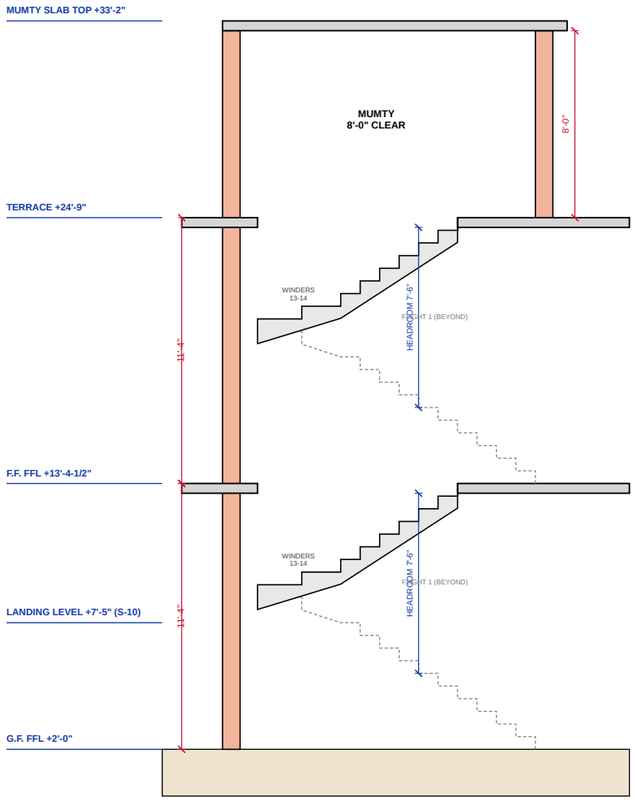
TERRACE / MUMTY PLAN



TERRACE +24'-9"; MUMTY 8'-0" CLEAR

DOOR D5 3'-0" OPENS OUT; DN AT START OF DESCENT

TERRACE SLAB OPENS FROM x = 7'-7" (N LANE)



STAIR SECTION (SOUTH LANE, LOOKING NORTH)

STAIR DATA	VALUE
FLOOR TO FLOOR	11'-4-1/2" (136.5")
RISERS	21 NOS x 6-1/2" (EACH FLOOR)
TREADS	10" ; 10 (FLIGHT 1) + 6 (FLIGHT 2) + 4 WINDERS
2R + T	23" (OK, 23" - 25")
FLIGHT WIDTH	3'-4" (40"), WELL 3"
MID LANDING LEVEL	+7'-5" (S-10); WINDERS 11-14
MIN. HEADROOM	7'-6" (>= 7'-3" NBC)
WAIST SLAB	5" RCC (M20), AS S-10
HANDRAIL	M.S. 3'-0" HIGH BOTH SIDES
MUMTY	8'-0" CLEAR + 5" SLAB + CHAJJA
MUMTY DOOR D5	3'-0" x 7'-0", OPENS OUT

SLAB OPENINGS (F.F. AND TERRACE): SOUTH LANE x 9" TO 9'-3" (RISER 21);

NORTH LANE FROM x = 7'-7" WESTWARDS (HEADROOM >= 7'-6" BELOW THE SLAB EDGE).

STAIR WELL EDGES ARE PROTECTED BY 3'-0" M.S. RAILING AT F.F.; MUMTY WALLS AT TERRACE.

DESIGN: STAIR & MUMTY DETAILS

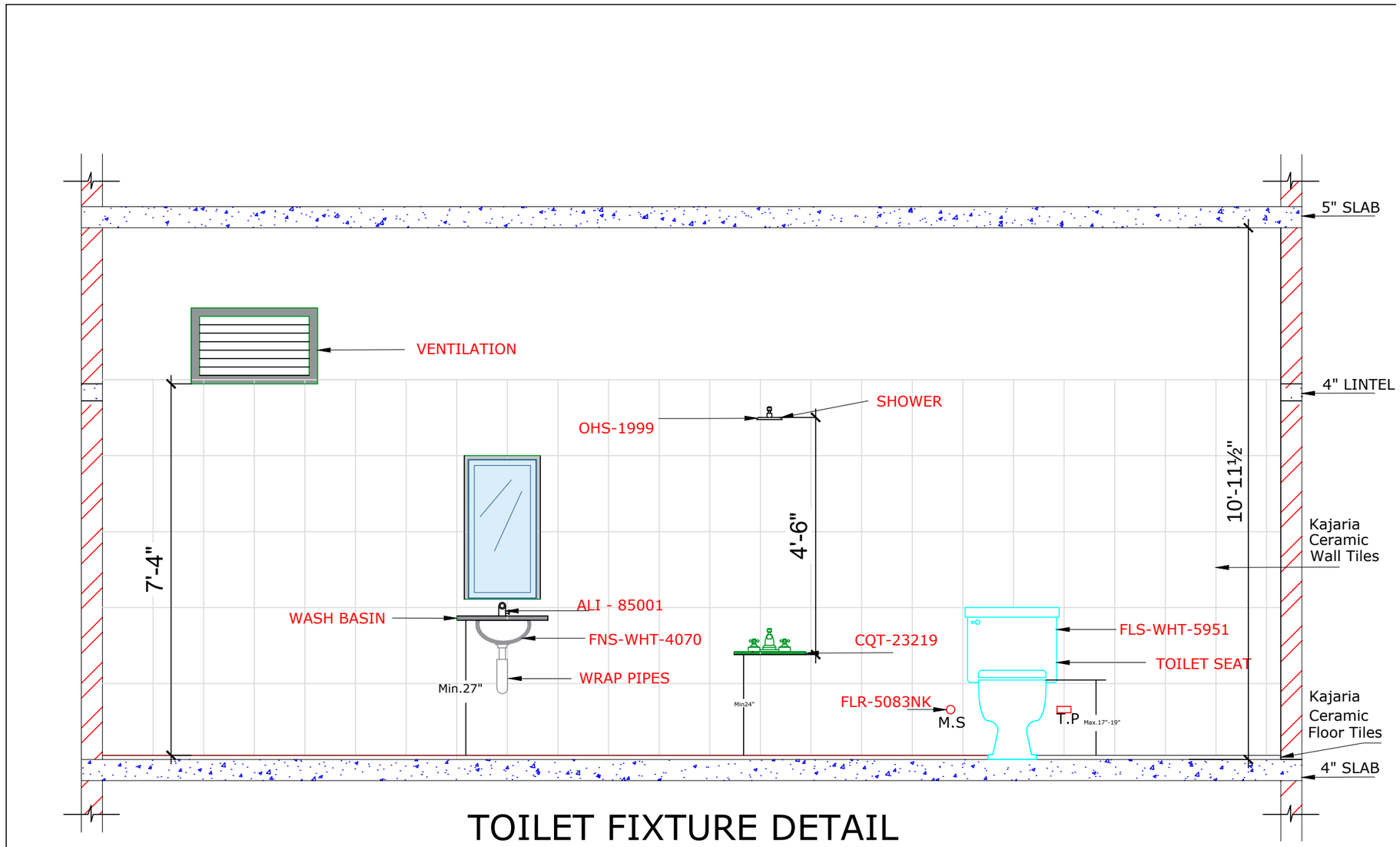
NOTE :

DOG-LEG STAIR, ANTICLOCKWISE (AS THE CLIENT PLAN): UP = NORTH LANE WESTWARDS, WINDER LANDING AT THE WEST, SOUTH LANE BACK EASTWARDS TO THE NEXT FLOOR.
FLOOR TO FLOOR 11'-4-1/2" = 21 RISERS x 6-1/2"; TREADS 10"; FLIGHT WIDTH 3'-4".
NUMBERS = RISER NO. TO THAT TREAD.
HEADROOM NOT LESS THAN 7'-6"; SLAB OPENING STARTS AT x = 7'-7" (NORTH LANE).
G.F. SHOWS ONE UP; F.F. SHOWS UP + DN; TERRACE (MUMTY) SHOWS DN ONLY.
STRUCTURE: WAIST SLAB 5", S-10.

Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-11





TOILET FIXTURE DETAIL

DESIGN: TOILET FIXTURE DETAIL

NOTE :

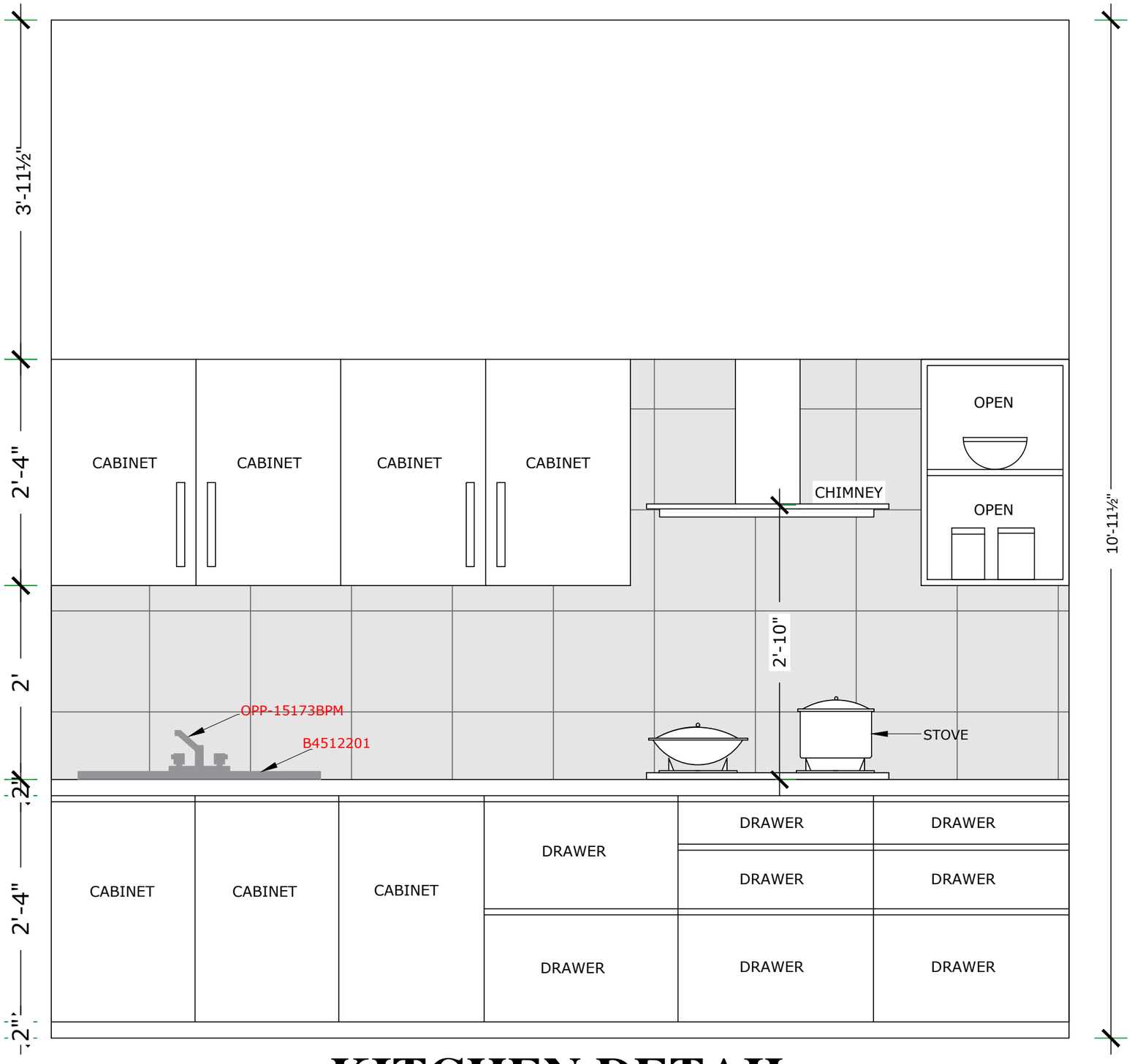
THIS IS JUST A GENERAL LAYOUT OF TOILET PROVIDED TO INDICATE STANDARD HEIGHT OF FAUCET.
FLOOR TO SLAB 10'-11-1/2" (11'-4-1/2" INCL. 5" SLAB). VENTILATOR SILL 7'-4".
TOILET FLOOR SUNK 1".

FIXTURE CODES (JAQUAR):
ALI-85001PM ALIVE
CQT-23219 CLARION
FLR-5083NK FLORENTINE
OHS-1999 HYDROLIC
FLS-WHT-5951 FLORENTINE
OPP-1501PM OPAL PRIME
FNS-WHT-4070 RONTE

Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-12

N
W
E
S



KITCHEN DETAIL

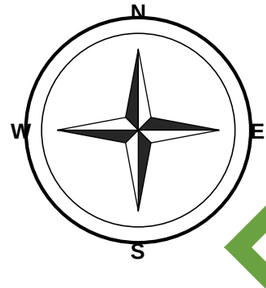
DESIGN: KITCHEN DETAIL

NOTE :

THIS IS JUST A GENERAL LAYOUT OF KITCHEN PROVIDED TO INDICATE STANDARD SIZES OF CABINET AND HEIGHT OF PLATFORM.
PLATFORM TOP 2'-6" (30") FROM FFL INCL. 2" GRANITE; MIN. 2'-6" CLEAR FOR GAS CYLINDER.
FLOOR TO SLAB 10'-11-1/2" (11'-4-1/2" INCL. 5" SLAB); TOP SPACE ABOVE CABINET 3'-11-1/2".

Client Name:
Project Type: Residential
Date: 21-10-2026

SHEET NO.: HDI-13



STRUCTURE DETAILS - RESIDENCE

1. PROJECT — RESIDENTIAL HOUSE, PLOT 36'-0" x 50'-0", ROAD ON THE SOUTH SIDE. BUILDING 33'-7" x 47'-7" ON THE WEST AND SOUTH BOUNDARY.

2. FLOORS — GROUND + FIRST FLOOR NOW. ONE EXTRA FLOOR PROVIDED : FOUNDATION, COLUMNS AND BEAMS ARE DESIGNED FOR G+2.

3. SEISMIC (ASSUMED) — ZONE III, Z = 0.16, I = 1.0, SMRF (R = 5). LOCATION NOT IN THE FILE (C-02).

4. SOIL (ASSUMED) — SBC 150 kN/m² (15 T/m²). NO SOIL REPORT.

5. FOUNDATION — SEPARATE FOOTINGS; COMBINED BOX FOOTINGS ONLY WHERE FOOTINGS COME WITHIN 4'-0". NO STRAP BEAMS. BOUNDARY FOOTINGS INSIDE THE PLOT, TIED BY GROUND TIE BEAMS. FOUNDING -5'-0".

6. LEVELS — PLINTH +2'-0", PARKING +1'-6". FLOOR TO FLOOR 11'-4½" (21 RISERS OF 6½"). WALLS 9" / 4.5".

7. COLUMNS — CLIENT COLUMN LAYOUT : 9" x 18" AND 18" x 9" - SIZE, ORIENTATION AND POSITION KEPT. 14 FRAME COLUMNS.

8. MATERIALS — M20 CONCRETE (M25 IN HEAVY COLUMNS UP TO FF ROOF), PCC M7.5, TMT Fe 550D, PPC CEMENT.

9. CODES — IS 456:2000, IS 13920:2016, IS 1893 (PART 1):2016, IS 875, SP 16, SP 34.

10. NAMING — PB = PLINTH BEAM, GB = GROUND FLOOR ROOF BEAM, FB = FIRST FLOOR ROOF BEAM, TB = SECOND FLOOR ROOF BEAM, S = SLAB, CS = CANTILEVER SLAB, C = COLUMN, F / CF = FOOTING / COMBINED FOOTING, GT = GROUND TIE BEAM.

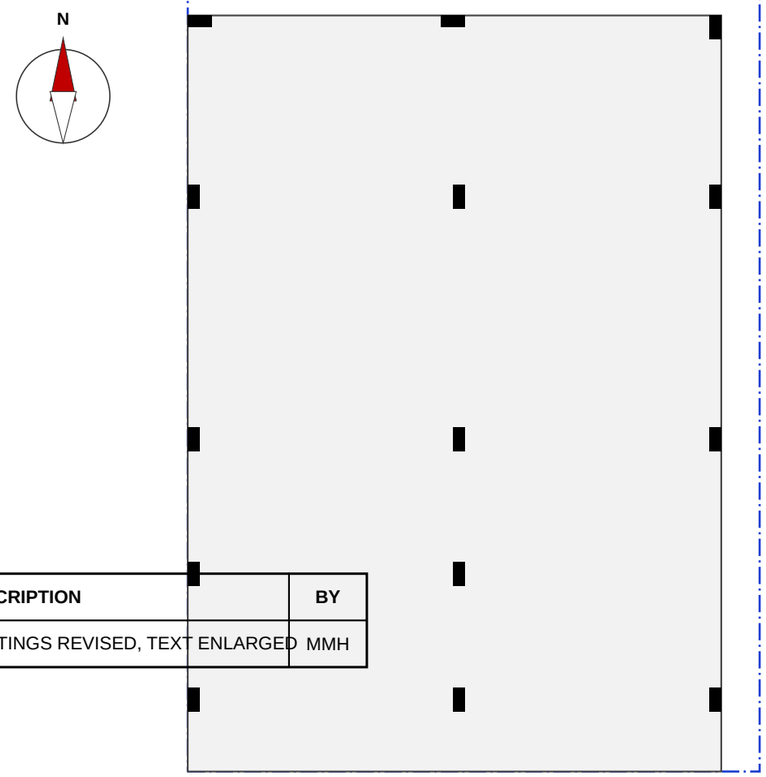
11. STATUS — FOR REVIEW. NOT APPROVED FOR CONSTRUCTION UNTIL SIGNED BY THE RESPONSIBLE STRUCTURAL ENGINEER. NO LOADS SHOWN.

12. SUSTAINABLE — FOOTINGS SIZED ONCE FOR G+2; FEW MARKS (3 COLUMN, 8 FOOTING, 7 BEAM PER FLOOR); 5" SLABS; NO RAFT; PPC CEMENT; STARTER BARS AND STAIR OPENING KEPT FOR THE FUTURE FLOOR.

SHEET	DRAWING TITLE
S-00	STRUCTURE DETAILS AND DESIGN BASIS
S-01	COLUMN PLAN
S-02	COLUMN CENTRELINE PLAN
S-03	FOUNDATION PLAN
S-04	SCHEDULE OF COLUMNS
S-05	PLINTH BEAM PLAN AND SCHEDULE
S-06	GROUND FLOOR ROOF BEAM AND SLAB PLAN
S-07	FIRST FLOOR ROOF BEAM AND SLAB PLAN
S-08	SECOND FLOOR ROOF (FUTURE) PLAN
S-09	SCHEDULE OF BEAMS
S-09A	SCHEDULE AND DETAIL OF SLABS
S-10	STAIRCASE DETAILS
S-11	FOOTING AND COLUMN DETAILS

REV	DATE	DESCRIPTION	BY
R1	20-10-2026	FOOTINGS REVISED, TEXT ENLARGED	MMH

KEY PLAN - NORTH UP



HousedesignIndia

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

Client Name:

Project Type : Residential

Sheet No. : S – 00

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED 48D -50D (D-DIA OF BAR).

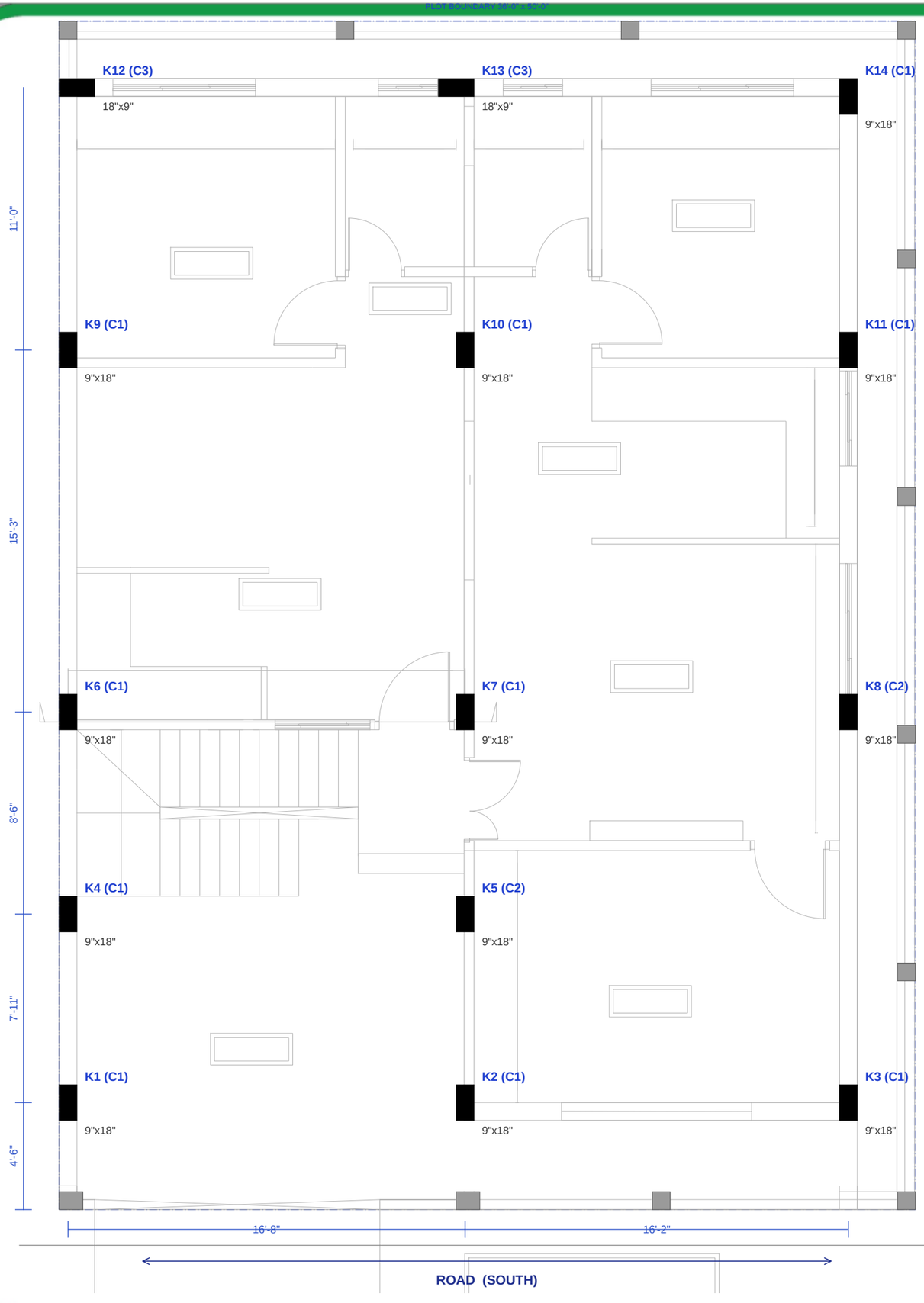
MINIMUM SPACING BETWEEN LONGITUDINAL BARS SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
1. Vertical Formwork of Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
- Span length beyond 6m -21 Days

3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

STRUCTURE DETAILS AND DESIGN BASIS



COLUMN SCHEDULE (SIZE AND ORIENTATION)

COL	MARK	SIZE (x · y)	LONG SIDE	CENTRE FROM SW CORNER
K1	C1	9" x 18"	N-S	x 4" , y 4'-6"
K2	C1	9" x 18"	N-S	x 17'-1" , y 4'-6"
K3	C1	9" x 18"	N-S	x 33'-2" , y 4'-6"
K4	C1	9" x 18"	N-S	x 4" , y 12'-5"
K5	C2	9" x 18"	N-S	x 17'-1" , y 12'-5"
K6	C1	9" x 18"	N-S	x 4" , y 20'-11"
K7	C1	9" x 18"	N-S	x 17'-1" , y 20'-11"
K8	C2	9" x 18"	N-S	x 33'-2" , y 20'-11"
K9	C1	9" x 18"	N-S	x 4" , y 36'-2"
K10	C1	9" x 18"	N-S	x 17'-1" , y 36'-2"
K11	C1	9" x 18"	N-S	x 33'-2" , y 36'-2"
K12	C3	18" x 9"	E-W	x 9" , y 47'-2"
K13	C3	18" x 9"	E-W	x 16'-8" , y 47'-2"
K14	C1	9" x 18"	N-S	x 33'-2" , y 46'-10"

NOTES :

1. SIZE AND ORIENTATION OF EVERY COLUMN IS TAKEN FROM THE CLIENT COLUMN LAYOUT JI STRUCTURE.DWG). PLACEMENT IS NOT CHANGED.
2. 9"x18" : LONG SIDE ALONG NORTH-SOUTH (y). 18"x9" (K12, K13) : LONG SIDE ALONG EAST-WEST (x).
3. GREY SQUARES = BOUNDARY WALL / GATE COLUMNS (9"x9", 12"x9") - NOT PART OF THE HOUSE FRAME.
4. ALL 14 FRAME COLUMNS GO UP TO THE FUTURE SECOND FLOOR ROOF (G+2 PROVISION).
5. ROAD IS ON THE SOUTH. NORTH IS UP.

N

HousedesignIndia

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

Client Name:

Project Type : Residential

Sheet No. : S – 01

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
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According to given site soil condition.
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FE - 550 grade should be used.

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8.BEAMS : 25 mm
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10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

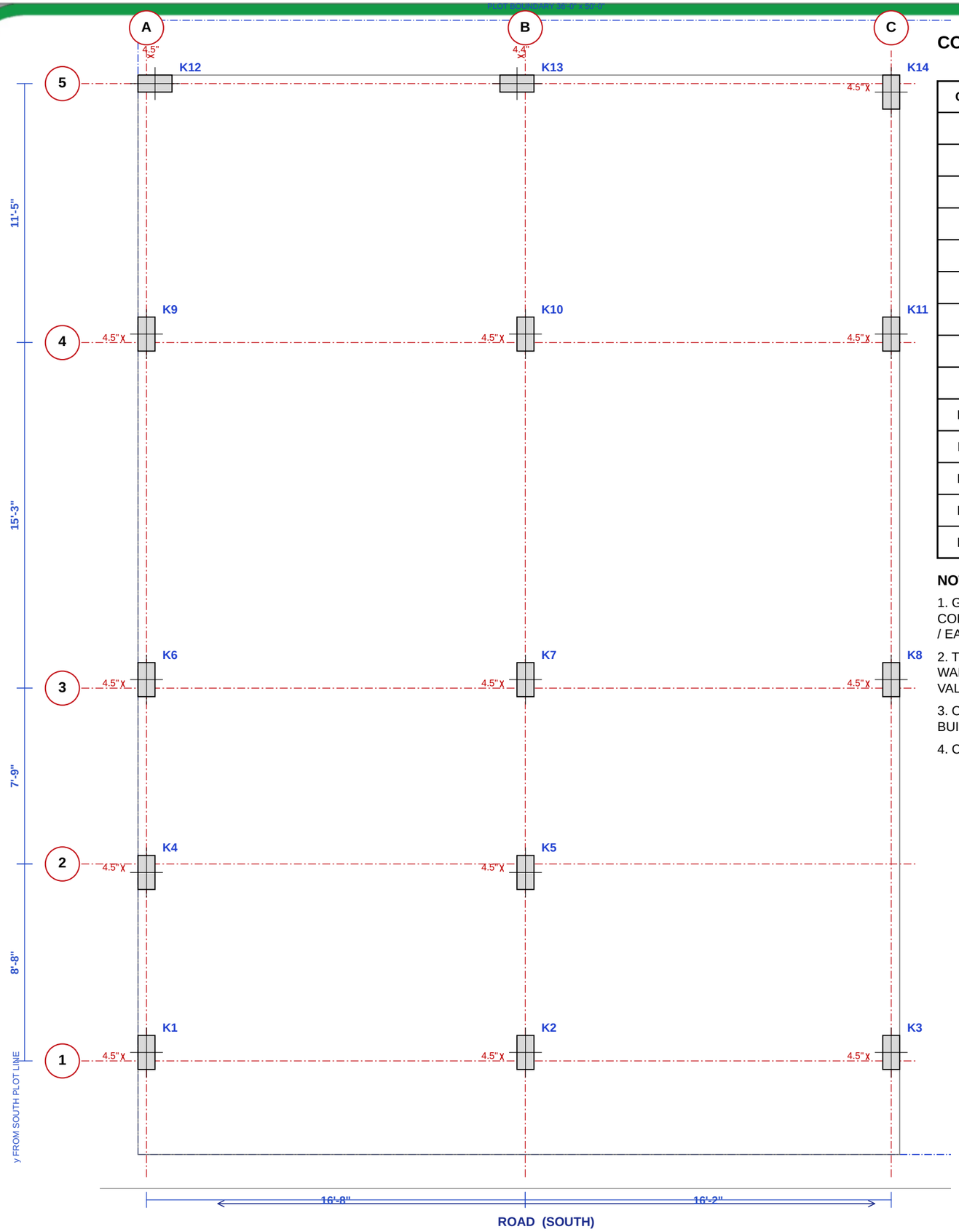
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48D -50D (D-DIA OF BAR).

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SHOULD BE 2 INCHES OR 50 MM .

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- Span length up to 4.5m -7 days
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2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

COLUMN PLAN

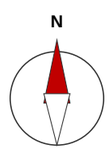


COLUMN SHIFT FROM GRID (BEAM AXIS)

COL	GRID	x FROM SW (IN)	y FROM SW (IN)	SHIFT x	SHIFT y
K1	A-1	4.5	54	0	+4"
K2	B-1	205	54	0	+4"
K3	C-1	398.5	54	0	+4"
K4	A-2	4.5	149.2	0	-4"
K5	B-2	205	149.2	0	-4"
K6	A-3	4.5	251.2	0	+4"
K7	B-3	205	251.2	0	+4"
K8	C-3	398.5	251.2	0	+4"
K9	A-4	4.5	434	0	+4"
K10	B-4	205	434	0	+4"
K11	C-4	398.5	434	0	+4"
K12	A-5	9	566.5	+4"	0
K13	B-5	200.5	566.5	-4"	0
K14	C-5	398.5	562	0	-4"

NOTES :

1. GRID LINES A-C AND 1-5 ARE THE BEAM AXES OF THE CLIENT BEAM LAYOUT. COLUMN CENTRES ARE SHIFTED FROM THE AXES AS SHOWN IN RED (SHIFT + = NORTH / EAST, - = SOUTH / WEST).
2. THE SHIFT KEEPS THE COLUMN FACE FLUSH WITH THE OUTER FACE OF THE 9" WALL / BEAM. SET OUT THE COLUMN CENTRES, NOT THE GRID, USING THE x AND y VALUES.
3. ORIGIN (0,0) = SOUTH-WEST CORNER OF THE PLOT (ROAD / WEST BOUNDARY). BUILDING 33'-7" x 47'-7" ON THE WEST AND SOUTH BOUNDARY.
4. CHECK THE DIAGONAL OF EVERY BAY BEFORE CASTING FOOTINGS.



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

Client Name:

Project Type : Residential

Sheet No. : S – 02

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

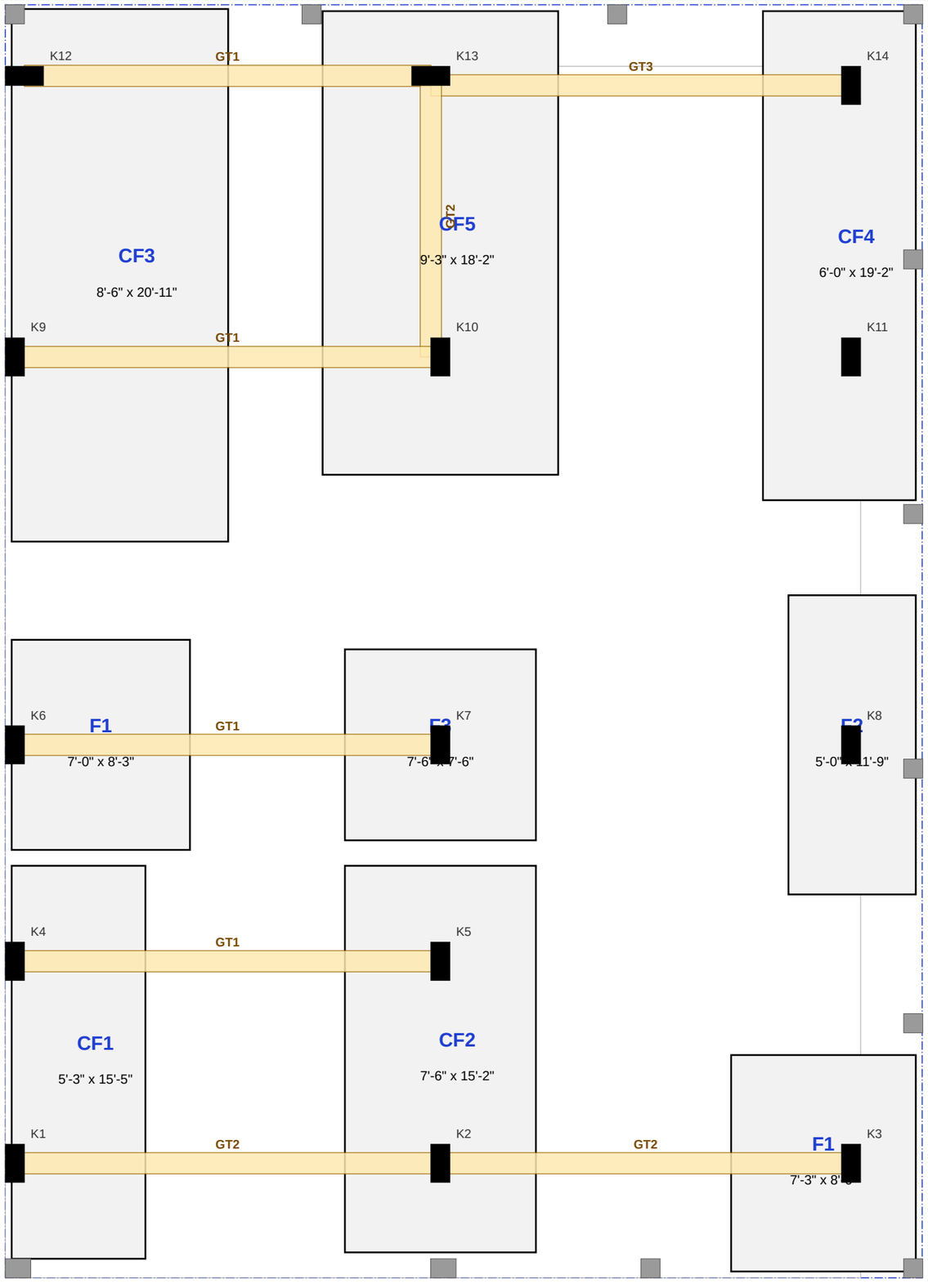
LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
1. Vertical Formwork of
Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
- Span length beyond 6m -21 Days
3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

COLUMN CENTRELINE PLAN



FOOTING SCHEDULE

MARK	TYPE	COLUMNS	L x B	DEPTH	BARS ALONG x	BARS ALONG y
CF1	COMBINED	K1, K4	5'-3" x 15'-5"	15"	10 Ø @ 6" C/C	10 Ø @ 5" C/C
CF2	COMBINED	K2, K5	7'-6" x 15'-2"	18"	10 Ø @ 5" C/C	10 Ø @ 5" C/C
CF3	COMBINED	K12, K9	8'-6" x 20'-11"	27"	12 Ø @ 5" C/C	16 Ø @ 5" C/C
CF4	COMBINED	K11, K14	6'-0" x 19'-2"	21"	10 Ø @ 4" C/C	12 Ø @ 4" C/C
CF5	COMBINED	K10, K13	9'-3" x 18'-2"	21"	10 Ø @ 4" C/C	10 Ø @ 4" C/C
F1	SEPARATE	K3, K6	7'-3" x 8'-6"	18"	10 Ø @ 5" C/C	10 Ø @ 4" C/C
F2	SEPARATE	K8	5'-0" x 11'-9"	21"	10 Ø @ 4" C/C	16 Ø @ 6" C/C
F3	SEPARATE	K7	7'-6" x 7'-6"	18"	10 Ø @ 5" C/C	10 Ø @ 5" C/C

GROUND TIE BEAMS (AT FOOTING TOP, BOUNDARY COLUMNS)

MARK	SIZE	TOP	BOTTOM	RINGS	BETWEEN
GT1	15"x33"	9-20Ø	5-20Ø	8#@6"	K12-K13, K4-K5, K6-K7, K9-K10
GT2	12"x27"	6-20Ø	3-20Ø	8#@6"	K13-K10, K1-K2, K3-K2
GT3	12"x18"	2-20Ø	2-20Ø	8#@6"	K14-K13

NOTES :

1. FOOTINGS ARE SEPARATE (ISOLATED) EXCEPT WHERE TWO FOOTINGS COME WITHIN 4'-0" OF EACH OTHER - THOSE ARE COMBINED INTO ONE BOX FOOTING (CF1 - CF5).

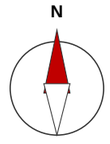
2. WEST / SOUTH BOUNDARY FOOTINGS ARE KEPT INSIDE THE PLOT LINE (3" CLEARANCE) AND ARE ECCENTRIC. THE ECCENTRIC MOMENT IS TAKEN BY THE GROUND TIE BEAMS (GT) AT FOOTING TOP, CAST WITH THE FOOTING AND CONNECTED TO THE NEXT INNER FOOTING. NO SEPARATE STRAP FOOTING.

3. FOUNDING LEVEL -5'-0" BELOW ROAD (ASSUMED). PCC 4" M7.5. COVER 50 mm. M20, Fe 550D. SBC 150 kN/m².

4. FOOTINGS ARE FOR FULL G+2 LOAD.

5. BOUNDARY WALL COLUMNS (GREY) : 3'-0" x 3'-0" x 12" FOOTINGS, 10 Ø @ 6" BOTH WAYS.

6. DETAILS : S-11.



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0731-6803999

Client Name:

Project Type : Residential

Sheet No. : S – 03

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED 48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN LONGITUDINAL BARS SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
1. Vertical Formwork of Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
- Span length beyond 6m -21 Days
3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
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4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

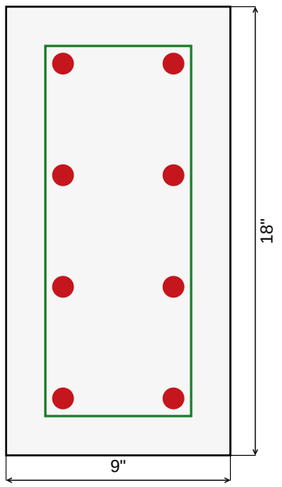
FOUNDATION PLAN

SCHEDULE OF REINFORCEMENT FOR COLUMNS

MARK	SIZE (IN)	COLUMNS	STAGE	FROM - TO	MAIN BARS	CONCRETE	TIES 8 mm
C1	9" x 18"	K1, K2, K3, K4, K6, K7, K9, K10, K11, K14	A	FOUNDATION - GF ROOF	8 - 20 Ø	M25	3" C/C AT ENDS (18"), 6" C/C MID
			B	GF ROOF - FF ROOF	6 - 20 Ø	M25	3" C/C AT ENDS (18"), 6" C/C MID
			C	FF ROOF - SF ROOF (FUTURE)	8 - 20 Ø	M20	3" C/C AT ENDS (18"), 6" C/C MID
C2	9" x 18"	K5, K8	A	FOUNDATION - GF ROOF	6 - 16 Ø	M20	3" C/C AT ENDS (18"), 6" C/C MID
			B	GF ROOF - FF ROOF	8 - 12 Ø	M20	3" C/C AT ENDS (18"), 6" C/C MID
			C	FF ROOF - SF ROOF (FUTURE)	8 - 12 Ø	M20	3" C/C AT ENDS (18"), 6" C/C MID
C3	18" x 9"	K12, K13	A	FOUNDATION - GF ROOF	6 - 20 Ø	M25	3" C/C AT ENDS (18"), 6" C/C MID
			B	GF ROOF - FF ROOF	6 - 20 Ø	M20	3" C/C AT ENDS (18"), 6" C/C MID
			C	FF ROOF - SF ROOF (FUTURE)	8 - 16 Ø	M20	3" C/C AT ENDS (18"), 6" C/C MID

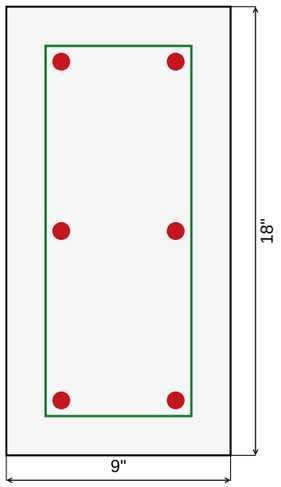
COLUMN SECTIONS (FOUNDATION - GF ROOF)

C1 9" x 18"



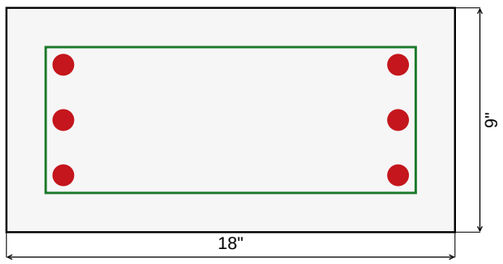
8 - 20 Ø (M25)

C2 9" x 18"



6 - 16 Ø (M20)

C3 18" x 9"



6 - 20 Ø (M25)

COLUMN NOTES

1. COLUMN BARS ARE LAPPED ONLY IN THE MIDDLE THIRD OF THE STOREY. LAP 62 Ø (Fe 550D / M20), NOT LESS THAN 2'-0".
2. CLOSER TIES (3" C/C) FOR THE BEAM DEPTH AT EVERY JOINT AND 18" ABOVE AND BELOW IT, AND 18" ABOVE THE FOOTING / PLINTH.
3. EVERY TIE HAS 135° HOOKS (10 Ø, NOT LESS THAN 75 mm). CROSS TIE 8 mm AT EVERY INTERMEDIATE LONG-SIDE BAR.
4. FUTURE FLOOR : LEAVE THE STAGE C BARS ABOVE THE FF ROOF SLAB STRAIGHT (LAP 62 Ø + 3'-0"), COAT WITH CEMENT SLURRY.
5. CLEAR COVER TO TIES 40 mm. MIN. 2" CLEAR BETWEEN BARS.
6. FOOTING DETAILS : S-03, S-11.

N

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Block - A , 301-302 Corporate house Opposite Lemon Tree Hotel, RNT Marg, Indore, Madhya Pradesh 452001
0731-6803999

Client Name:

Project Type : Residential

Sheet No. : S – 04

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

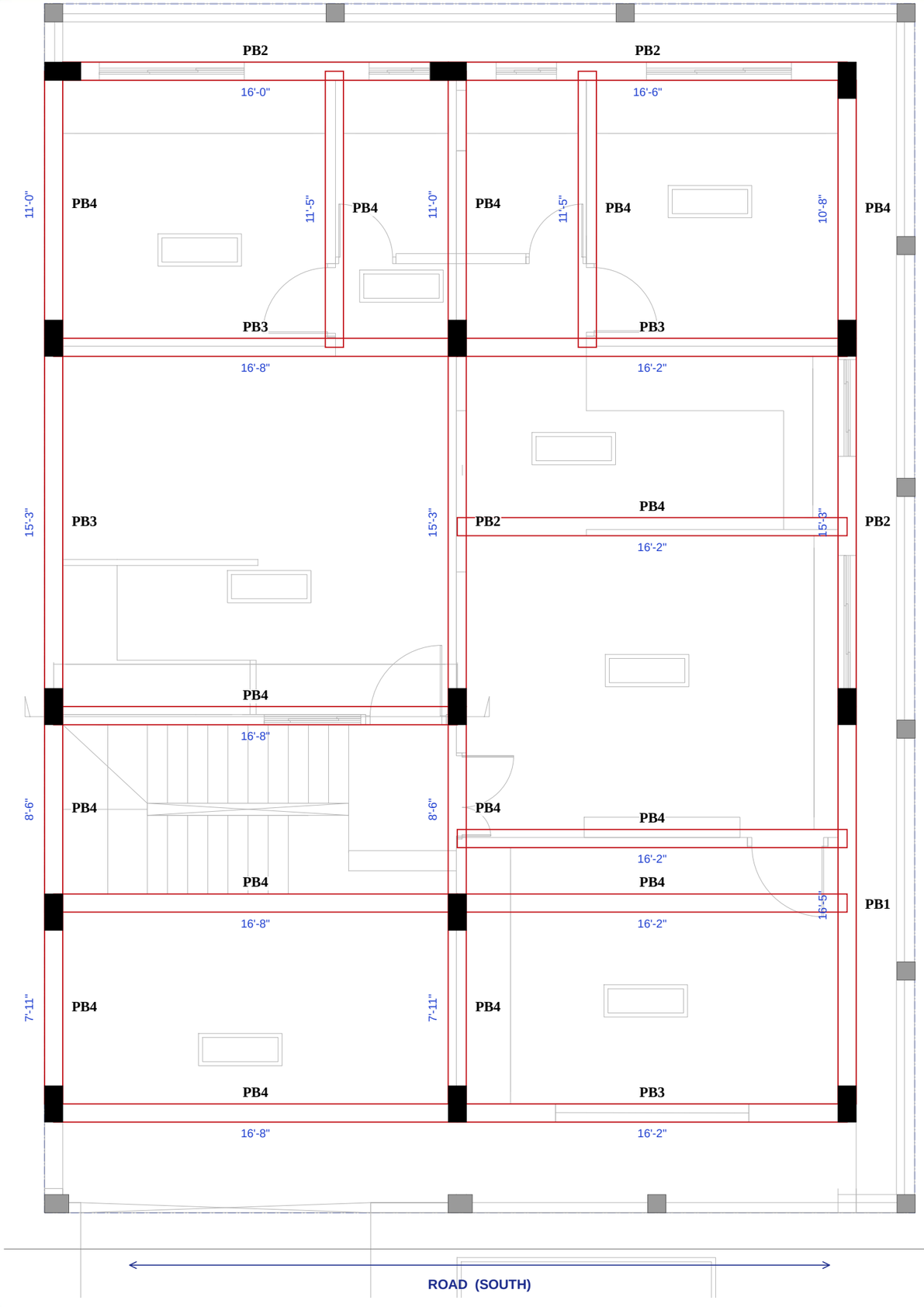
LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
1. Vertical Formwork of
Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
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Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

SCHEDULE OF COLUMN REINFORCEMENT



SCHEDULE OF PLINTH BEAM

NAME	SIZE	TOP	BOTTOM	EXTRA BOT.	EXTRA TOP	RINGS END	RINGS MID
PB1	9"x21"	3-12Ø	3-16Ø	2-12Ø	2-20Ø	8#@4"	8#@5"
PB2	9"x18"	3-12Ø	3-12Ø	2-16Ø	2-16Ø	8#@4"	8#@5"
PB3	9"x15"	3-12Ø	3-12Ø	2-12Ø	2-16Ø	8#@4"	8#@5"
PB4	9"x12"	2-12Ø	3-12Ø	2-12Ø	2-16Ø	8#@4"	8#@4"

NOTES :

1. PLINTH BEAMS FOLLOW THE CLIENT BEAM PLAN. PB4 TIE BEAM ACROSS THE PARKING OPENING IS BELOW GROUND (S-03).
2. PLINTH LEVEL +2'-0" (PARKING +1'-6") ABOVE ROAD. TOP OF BEAM = PLINTH LEVEL.
3. 9" WIDE. 9" WALLS OVER THE OUTER AND SPINE BEAMS, 4.5" OVER THE REST.
4. BEAMS MUST BE CONTINUOUS THROUGH COLUMNS (ZONE III TIES). NO LAP WITHIN 2 x D OF A COLUMN FACE.
5. BEAM-ON-BEAM JUNCTIONS NEED 2 EXTRA RINGS EACH SIDE (S-12).

N

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

Client Name:

Project Type : Residential

Sheet No. : S – 05

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
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2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
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11.WATER RETAINING
STRUCTURES : 20/30 mm

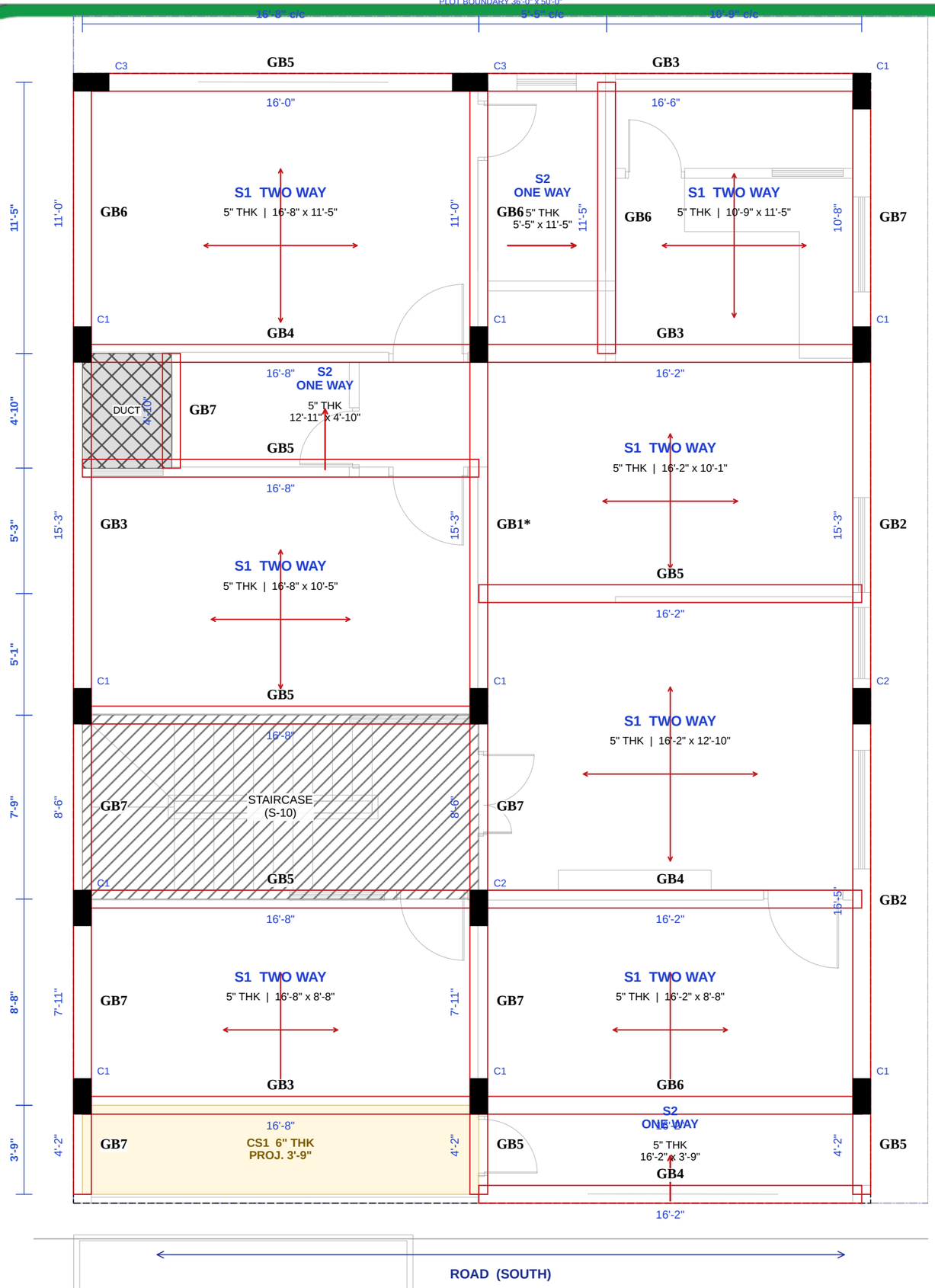
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48D -50D (D-DIA OF BAR).

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Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

PLINTH BEAM PLAN AND SCHEDULE



BEAMS ON THIS FLOOR (FULL SCHEDULE : S-09)

NAME	SIZE	TOP	BOTTOM	EXTRA BOT.	EXTRA TOP
GB1*	12"x24"	3-16Ø	4-16Ø	2-20Ø	3-20Ø
GB2	9"x24"	3-16Ø	3-16Ø	2-16Ø	2-20Ø
GB3	9"x21"	2-16Ø	3-16Ø	2-16Ø	2-20Ø
GB4	9"x18"	3-12Ø	3-16Ø	2-12Ø	2-20Ø
GB5	9"x18"	3-12Ø	2-16Ø	2-16Ø	2-20Ø
GB6	9"x15"	2-12Ø	3-12Ø	2-12Ø	2-16Ø
GB7	9"x12"	2-12Ø	3-12Ø	2-12Ø	2-16Ø

SLABS

MARK	TYPE	THK	SHORT-SPAN BAR	LONG-SPAN / DIST. BAR
S1	TWO WAY	5"	10 Ø @ 6" C/C	8 Ø @ 7" C/C
S2	ONE WAY	5"	8 Ø @ 6" C/C	8 Ø @ 8" C/C (DIST.)

NOTES :

1. BEAMS ARE ON THE CENTRE LINES OF THE CLIENT BEAM LAYOUT. COLUMN POSITIONS ARE NOT CHANGED. SPANS ARE c/c OF SUPPORTS; BAY SIZES ARE BEAM-TO-BEAM.
2. BEAM 9" WIDE (RB / GB / FB / TB 1* : 12"). D INCLUDES THE SLAB. DETAILS : S-12, S-13.
3. RED ARROW (ONE WAY) = MAIN BAR DIRECTION. SINGLE ARROW SLAB HAS BARS ONLY IN THE SHORT SPAN + DISTRIBUTION BARS ACROSS. DOUBLE ARROW (TWO WAY) = MAIN BARS BOTH WAYS.
4. BEAM-ON-BEAM JUNCTIONS NEED THE EXTRA SUSPENSION RINGS OF S-12 IN THE CARRYING BEAM.
5. * BEAM IS PENDING APPROVAL (SEE CLARIFICATION C-01).
6. ROAD ON THE SOUTH. FOR REVIEW - NOT FOR CONSTRUCTION UNTIL SIGNED BY THE STRUCTURAL ENGINEER.
7. SIT-OUT PROJECTION CS1 IS CAST WITH THIS SLAB (S-13). GB = GROUND FLOOR ROOF BEAMS.

GROUND FLOOR ROOF BEAM SLAB PLAN

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

Client Name:

Project Type : Residential

Sheet No. : S – 06

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
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6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED 48D -50D (D-DIA OF BAR).

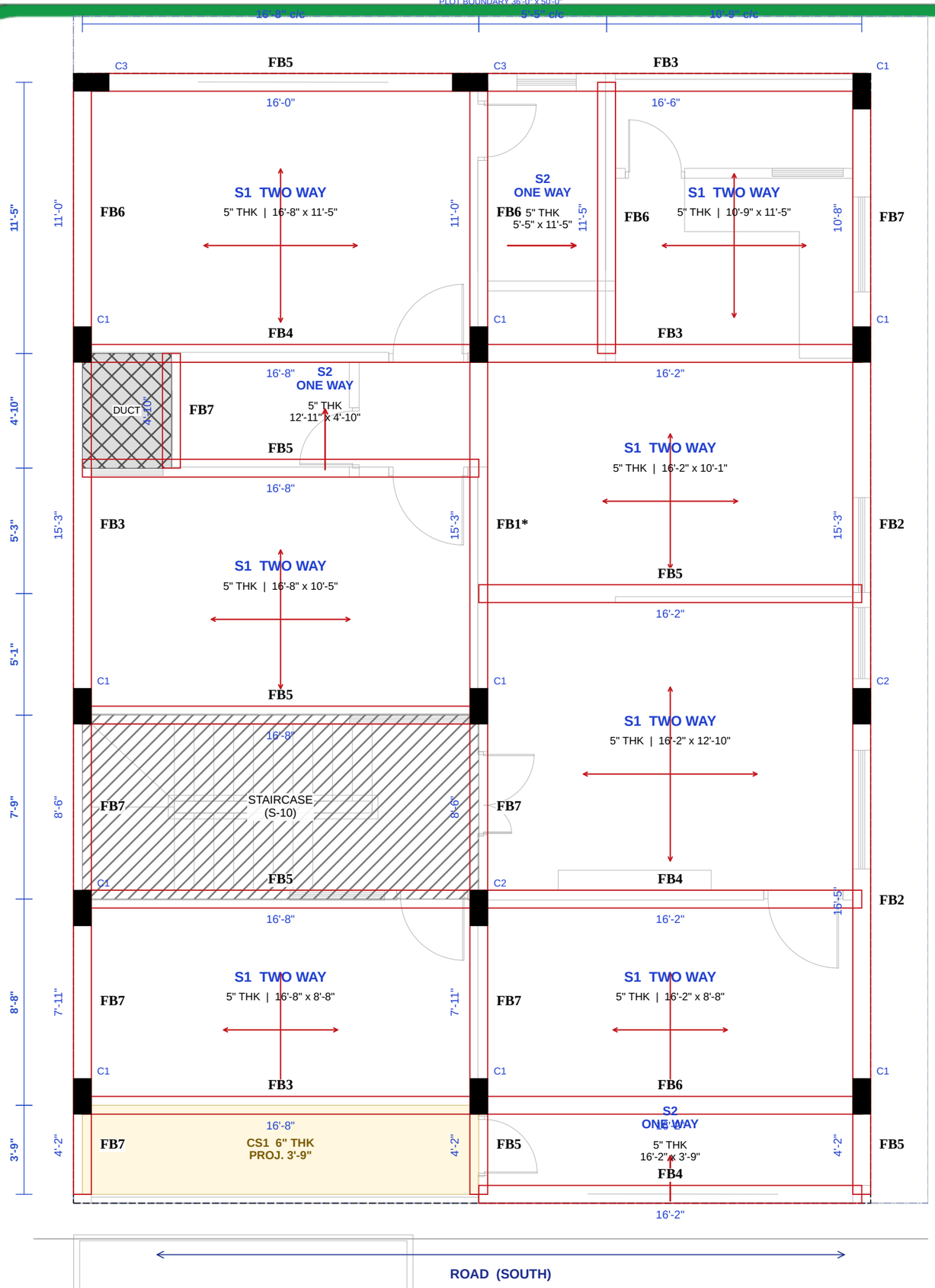
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Types of Formwork :
(Formwork removal time after casting of Concrete)
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Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

N

GROUND FLOOR ROOF BEAM AND SLAB PLAN



BEAMS ON THIS FLOOR (FULL SCHEDULE : S-09)

NAME	SIZE	TOP	BOTTOM	EXTRA BOT.	EXTRA TOP
FB1*	12"x24"	3-16Ø	4-16Ø	2-20Ø	3-20Ø
FB2	9"x24"	3-16Ø	3-16Ø	2-16Ø	2-20Ø
FB3	9"x21"	2-16Ø	3-16Ø	2-16Ø	2-20Ø
FB4	9"x18"	3-12Ø	3-16Ø	2-12Ø	2-20Ø
FB5	9"x18"	3-12Ø	2-16Ø	2-16Ø	2-20Ø
FB6	9"x15"	2-12Ø	3-12Ø	2-12Ø	2-16Ø
FB7	9"x12"	2-12Ø	3-12Ø	2-12Ø	2-16Ø

SLABS

MARK	TYPE	THK	SHORT-SPAN BAR	LONG-SPAN / DIST. BAR
S1	TWO WAY	5"	10 Ø @ 6" C/C	8 Ø @ 7" C/C
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NOTES :

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2. BEAM 9" WIDE (RB / GB / FB / TB 1* : 12"). D INCLUDES THE SLAB. DETAILS : S-12, S-13.
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4. BEAM-ON-BEAM JUNCTIONS NEED THE EXTRA SUSPENSION RINGS OF S-12 IN THE CARRYING BEAM.
5. * BEAM IS PENDING APPROVAL (SEE CLARIFICATION C-01).
6. ROAD ON THE SOUTH. FOR REVIEW - NOT FOR CONSTRUCTION UNTIL SIGNED BY THE STRUCTURAL ENGINEER.
7. FB = FIRST FLOOR ROOF BEAMS. FUTURE FLOOR : KEEP COLUMN STARTER BARS AND THE STAIR OPENING (S-04, S-10).

FIRST FLOOR ROOF BEAM SLAB PLAN

HousedesignIndia

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

Client Name:

Project Type : Residential

Sheet No. : S – 07

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
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CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
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3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
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8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

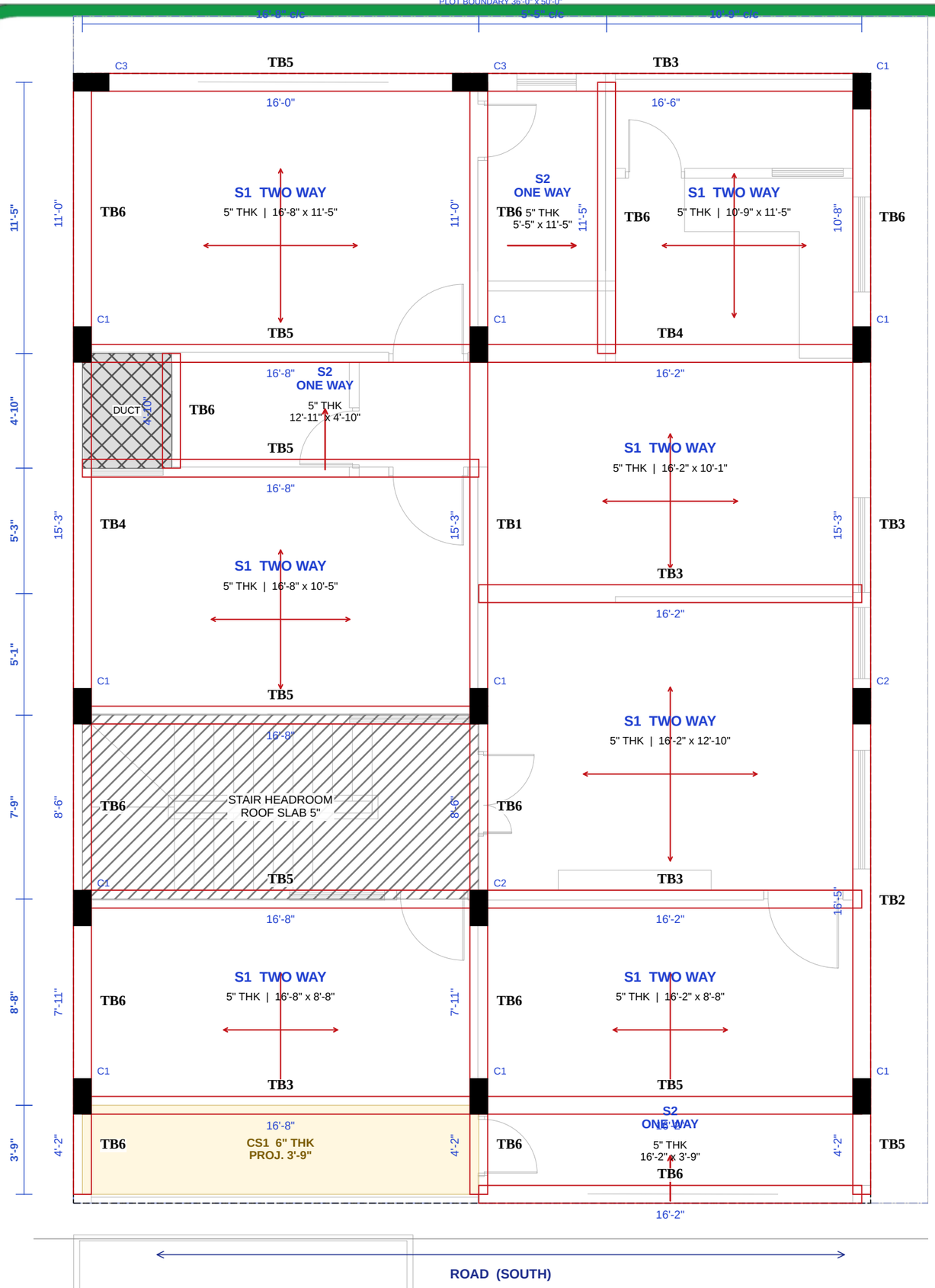
MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
1. Vertical Formwork of
Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
- Span length beyond 6m -21 Days
3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

N

FIRST FLOOR ROOF BEAM AND SLAB PLAN



BEAMS ON THIS FLOOR (FULL SCHEDULE : S-09)

NAME	SIZE	TOP	BOTTOM	EXTRA BOT.	EXTRA TOP
TB1	9"x24"	2-16Ø	3-16Ø	2-16Ø	2-20Ø
TB2	9"x21"	3-12Ø	2-16Ø	2-16Ø	2-20Ø
TB3	9"x18"	3-12Ø	3-16Ø	2-12Ø	2-20Ø
TB4	9"x18"	3-12Ø	2-16Ø	2-16Ø	2-20Ø
TB5	9"x15"	3-12Ø	3-12Ø	2-16Ø	2-16Ø
TB6	9"x12"	2-12Ø	3-12Ø	2-12Ø	2-16Ø

SLABS

MARK	TYPE	THK	SHORT-SPAN BAR	LONG-SPAN / DIST. BAR
S1	TWO WAY	5"	10 Ø @ 6" C/C	8 Ø @ 7" C/C
S2	ONE WAY	5"	8 Ø @ 6" C/C	8 Ø @ 8" C/C (DIST.)

NOTES :

1. BEAMS ARE ON THE CENTRE LINES OF THE CLIENT BEAM LAYOUT. COLUMN POSITIONS ARE NOT CHANGED. SPANS ARE c/c OF SUPPORTS; BAY SIZES ARE BEAM-TO-BEAM.
2. BEAM 9" WIDE (RB / GB / FB / TB 1* : 12"). D INCLUDES THE SLAB. DETAILS : S-12, S-13.
3. RED ARROW (ONE WAY) = MAIN BAR DIRECTION. SINGLE ARROW SLAB HAS BARS ONLY IN THE SHORT SPAN + DISTRIBUTION BARS ACROSS. DOUBLE ARROW (TWO WAY) = MAIN BARS BOTH WAYS.
4. BEAM-ON-BEAM JUNCTIONS NEED THE EXTRA SUSPENSION RINGS OF S-12 IN THE CARRYING BEAM.
5. * BEAM IS PENDING APPROVAL (SEE CLARIFICATION C-01).
6. ROAD ON THE SOUTH. FOR REVIEW - NOT FOR CONSTRUCTION UNTIL SIGNED BY THE STRUCTURAL ENGINEER.
7. TB = SECOND FLOOR ROOF BEAMS. FUTURE PROVISION ONLY - NOT TO BE CAST NOW; RE-CHECK WHEN THE SECOND FLOOR PLAN IS FINAL (C-05).

SECOND FLOOR ROOF BEAM SLAB PLAN (FUTURE)

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

Client Name:

Project Type : Residential

Sheet No. : S – 08

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
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2. Props removal for beams and arches
- Span length up to 6m -14 Days
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3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

N

SECOND FLOOR ROOF (FUTURE) BEAM AND SLAB PLAN

SCHEDULE OF GROUND FLOOR ROOF BEAMS

NAME	SIZE (IN)	REIN. AT TOP	REIN. AT BOTTOM	EXTRA AT BOTTOM	EXTRA AT TOP	RINGS UP TO L/3	RINGS AFTER L/3	BEAMS (SPAN)
GB1*	12"x24"	3-16 TMT	4-16 TMT	2-20 TMT	3-20 TMT	10# @ 4" C/C	10# @ 5" C/C	VM3 15'-3"
GB2	9"x24"	3-16 TMT	3-16 TMT	2-16 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	VE1 16'-5", VE2 15'-3"
GB3	9"x21"	2-16 TMT	3-16 TMT	2-16 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	VW3 15'-3", Hn2 16'-6", Ha2 16'-2", Hf1 16'-8"
GB4	9"x18"	3-12 TMT	3-16 TMT	2-12 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	Ha1 16'-8", He2 16'-2", Hs 16'-2"
GB5	9"x18"	3-12 TMT	2-16 TMT	2-16 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	CE 4'-2", Hb 16'-8", Hd 16'-8", He1 16'-8", CM 4'-2", Hn1 16'-0", Hc 16'-2"
GB6	9"x15"	2-12 TMT	3-12 TMT	2-12 TMT	2-16 TMT	8# @ 4" C/C	8# @ 5" C/C	VM4 11'-0", Hf2 16'-2", VW4 11'-0", V4 11'-5"
GB7	9"x12"	2-12 TMT	3-12 TMT	2-12 TMT	2-16 TMT	8# @ 4" C/C	8# @ 4" C/C	VE3 10'-8", VM1 7'-11", VM2 8'-6", VW1 7'-11", VW2 8'-6", CW 4'-2", V5 4'-10"

SCHEDULE OF FIRST FLOOR ROOF BEAMS

NAME	SIZE (IN)	REIN. AT TOP	REIN. AT BOTTOM	EXTRA AT BOTTOM	EXTRA AT TOP	RINGS UP TO L/3	RINGS AFTER L/3	BEAMS (SPAN)
FB1*	12"x24"	3-16 TMT	4-16 TMT	2-20 TMT	3-20 TMT	10# @ 4" C/C	10# @ 5" C/C	VM3 15'-3"
FB2	9"x24"	3-16 TMT	3-16 TMT	2-16 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	VE1 16'-5", VE2 15'-3"
FB3	9"x21"	2-16 TMT	3-16 TMT	2-16 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	VW3 15'-3", Hn2 16'-6", Ha2 16'-2", Hf1 16'-8"
FB4	9"x18"	3-12 TMT	3-16 TMT	2-12 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	Ha1 16'-8", He2 16'-2", Hs 16'-2"
FB5	9"x18"	3-12 TMT	2-16 TMT	2-16 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	CE 4'-2", Hb 16'-8", Hd 16'-8", He1 16'-8", CM 4'-2", Hn1 16'-0", Hc 16'-2"
FB6	9"x15"	2-12 TMT	3-12 TMT	2-12 TMT	2-16 TMT	8# @ 4" C/C	8# @ 5" C/C	VM4 11'-0", Hf2 16'-2", VW4 11'-0", V4 11'-5"
FB7	9"x12"	2-12 TMT	3-12 TMT	2-12 TMT	2-16 TMT	8# @ 4" C/C	8# @ 4" C/C	VE3 10'-8", VM1 7'-11", VM2 8'-6", VW1 7'-11", VW2 8'-6", CW 4'-2", V5 4'-10"

SCHEDULE OF SECOND FLOOR ROOF (FUTURE) BEAMS

NAME	SIZE (IN)	REIN. AT TOP	REIN. AT BOTTOM	EXTRA AT BOTTOM	EXTRA AT TOP	RINGS UP TO L/3	RINGS AFTER L/3	BEAMS (SPAN)
TB1	9"x24"	2-16 TMT	3-16 TMT	2-16 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	VM3 15'-3"
TB2	9"x21"	3-12 TMT	2-16 TMT	2-16 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	VE1 16'-5"
TB3	9"x18"	3-12 TMT	3-16 TMT	2-12 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	VE2 15'-3", Hf1 16'-8", Hn2 16'-6", Hc 16'-2", He2 16'-2"
TB4	9"x18"	3-12 TMT	2-16 TMT	2-16 TMT	2-20 TMT	8# @ 4" C/C	8# @ 5" C/C	Ha2 16'-2", VW3 15'-3"
TB5	9"x15"	3-12 TMT	3-12 TMT	2-16 TMT	2-16 TMT	8# @ 4" C/C	8# @ 5" C/C	Hd 16'-8", He1 16'-8", Ha1 16'-8", Hb 16'-8", Hn1 16'-0", Hf2 16'-2", CE 4'-2"
TB6	9"x12"	2-12 TMT	3-12 TMT	2-12 TMT	2-16 TMT	8# @ 4" C/C	8# @ 4" C/C	CM 4'-2", VM4 11'-0", V4 11'-5", Hs 16'-2", VW1 7'-11", VW2 8'-6", VW4 11'-0", VM1 7'-11", VM2 8'-6", VE3 10'-8", CW 4'-2", V5 4'-10"

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

Client Name:

Project Type : Residential

Sheet No. : S – 09

Date : Oct 20, 2026

NOTE:

SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :

M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :

1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED 48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN LONGITUDINAL BARS SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :

(Formwork removal time after casting of Concrete)
1. Vertical Formwork of Column, beam, and wall - 16 Hours to 24 hours
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Curing Time For :

1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

SCHEDULE OF ROOF BEAM AND SLAB DETAILS

SLAB SCHEDULE - ONE WAY AND TWO WAY

SLAB	TYPE	THK	SHORT-SPAN BAR (MAIN)	LONG-SPAN BAR	TOP / CRANK	PANELS
S1	TWO WAY (Ly/Lx ≤ 2)	5"	10 Ø @ 6" C/C - BOTTOM	8 Ø @ 7" C/C - BOTTOM, ABOVE SHORT BARS	ALT. MAIN BARS CRANKED AT Lx/7; TOP STEEL Lx/4	EA2, EB, EC, ED, WA, WC, WE
S2	ONE WAY (Ly/Lx > 2)	5"	8 Ø @ 6" C/C - BOTTOM	8 Ø @ 8" C/C - DISTRIBUTION (ABOVE MAIN)	ALT. MAIN BARS CRANKED AT Lx/7; TOP STEEL Lx/4	EA1, EF, ST, WB

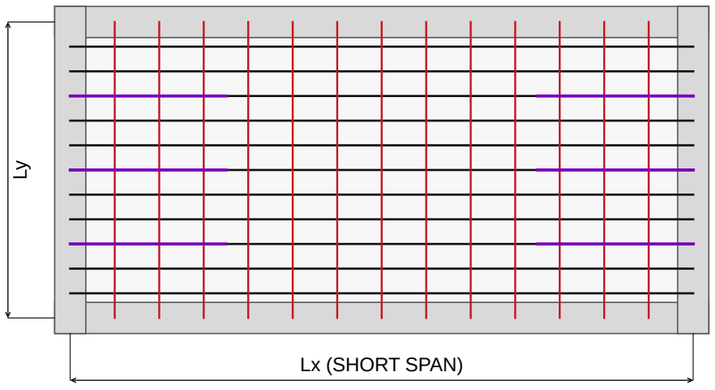
CANTILEVER SLAB (SIT-OUT) CS1

MARK	THK	PROJECTION	MAIN TOP BAR (ACROSS SUPPORT)	DISTRIBUTION BAR	ANCHORAGE
CS1	6"	3'-9"	10 Ø @ 6" C/C	8 Ø @ 7" C/C	PROJ. + 62 Ø INTO BACK SPAN

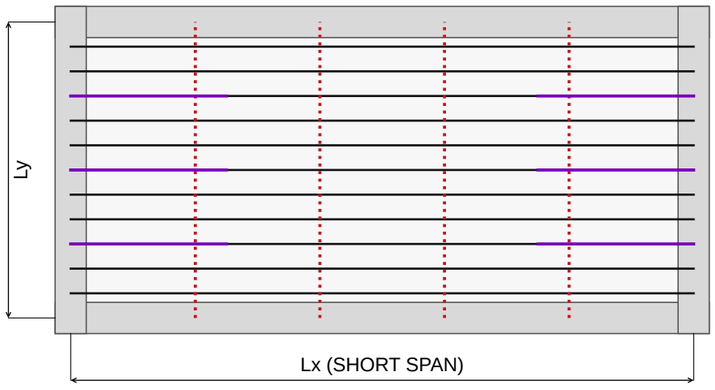
NOTES :

1. ONE WAY SLAB (S2) : MAIN BARS ONLY ALONG THE SHORT SPAN (Lx). ALONG THE LONG SPAN ONLY DISTRIBUTION BARS (MIN. 0.12%) - NO MAIN BARS, NO CRANK IN THE LONG DIRECTION. BARS ARE NOT TO BE REDUCED TO TWO WAY STEEL.
2. TWO WAY SLAB (S1) : SHORT-SPAN BARS AT THE BOTTOM (OUTER LAYER), LONG-SPAN BARS ABOVE THEM. ALTERNATE SHORT BARS ARE CRANKED UP AT Lx/7 FROM THE SUPPORT FACE.
3. TOP BARS OVER CONTINUOUS SUPPORTS EXTEND Lx/4 (SHORT) / Ly/4 (LONG) FROM THE FACE. ON ONE WAY SLABS TOP BARS EXTEND Lx/4 FROM THE FACE OF THE SUPPORTING BEAM.
4. CLEAR COVER 15 mm. COVER BLOCKS @ 3'-0" C/C BOTH WAYS.
5. CS1 TOP BARS ARE PLACED OVER THE SUPPORTING BEAM AND TIED INTO THE BACK SPAN; DO NOT REMOVE PROPS BEFORE 14 DAYS.

TWO WAY SLAB (S1) : Ly / Lx ≤ 2



ONE WAY SLAB (S2) : Ly / Lx > 2



MAIN BAR - SHORT SPAN (BOTH SLAB TYPES)

TWO WAY : LONG-SPAN BAR 8 Ø @ 7" - ONE WAY : DISTRIBUTION 8 Ø @ 8" ONLY

TOP BAR OVER SUPPORT, Lx/4 FROM FACE

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

Client Name:

Project Type : Residential

Sheet No. : S – 09A

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
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CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

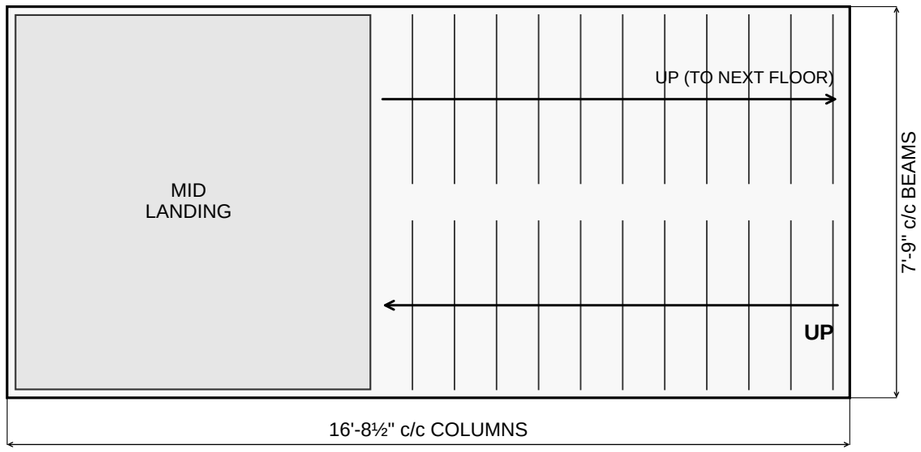
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(Formwork removal time after casting of Concrete)
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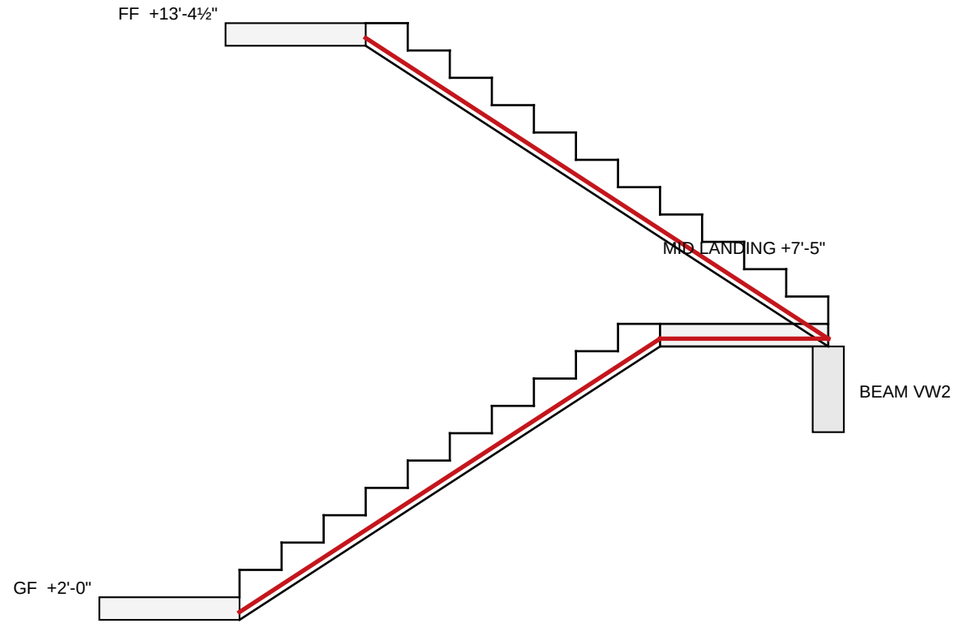
SCHEDULE OF SLAB DETAILS

STAIRCASE (DOG-LEG, WAIST SLAB) - GROUND TO FIRST FLOOR, CONTINUING TO THE FUTURE SECOND FLOOR

STAIR BAY PLAN (BEAMS Hd / He1)



11 TREADS x 10" PER FLIGHT, FLIGHT WIDTH 3'-4", MID LANDING AT WEST



MAIN BAR 10 Ø @ 6" C/C (BOTTOM, ALONG WAIST)

DISTRIBUTION 8 Ø @ 6" C/C (ACROSS)

SECTION A-A : RISER 6½" , TREAD 10" , 5" WAIST , 10 + 11 = 21 RISERS (FLOOR TO FLOOR 11'-4½")

STAIRCASE REINFORCEMENT

ELEMENT	THICKNESS	MAIN BARS	DISTRIBUTION	TOP STEEL
FLIGHT (WAIST)	5" WAIST	10 Ø @ 6" C/C	8 Ø @ 6" C/C	10 Ø @ 12" C/C, L/4 AT LANDING
MID LANDING	5"	10 Ø @ 6" C/C	8 Ø @ 6" C/C	ALT. BARS CRANKED
FLOOR LANDINGS	5"	10 Ø @ 6" C/C	8 Ø @ 7" C/C	ALT. BARS CRANKED

NOTES :

1. 21 RISERS OF 6½" AND 10" TREADS ARE READ FROM THE STEP NUMBERS ON THE CLIENT PLAN. CONFIRM FINISHED FLOOR LEVELS (C-06).
2. FLIGHTS BEAR ON BEAMS Hd / He1 AND THE LANDING ON BEAM VW2. 6" CLEAR GAP BETWEEN FLIGHTS. HANDRAIL 3'-0".
3. CLEAR COVER 15 mm. NO LAP IN MAIN BARS WITHIN THE FLIGHT. ANCHOR 62 Ø INTO THE BEAM / LANDING.
4. THE SAME FLIGHTS CONTINUE TO THE FUTURE SECOND FLOOR (OPENING ON S-07 / S-08). HEADROOM (MUMTY) SLAB ON S-08.
5. PROPS REMOVED AFTER 14 DAYS. FOR REVIEW - NOT FOR CONSTRUCTION UNTIL SIGNED BY THE STRUCTURAL ENGINEER.

N

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

Client Name:

Project Type : Residential

Sheet No. : **S – 10**

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
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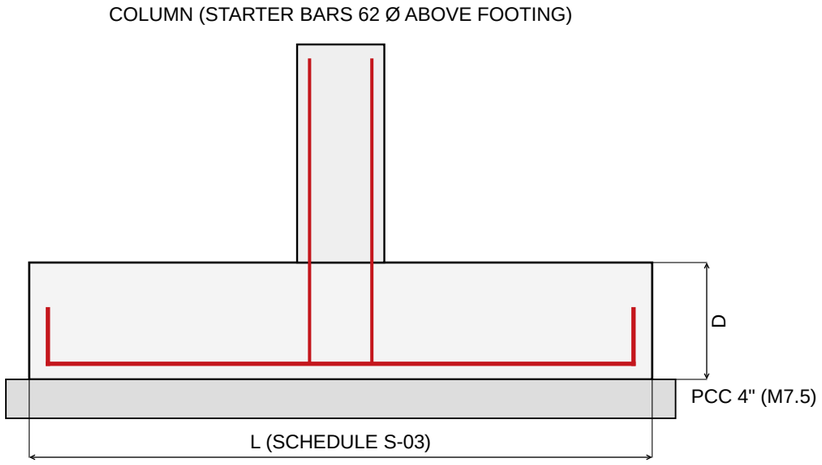
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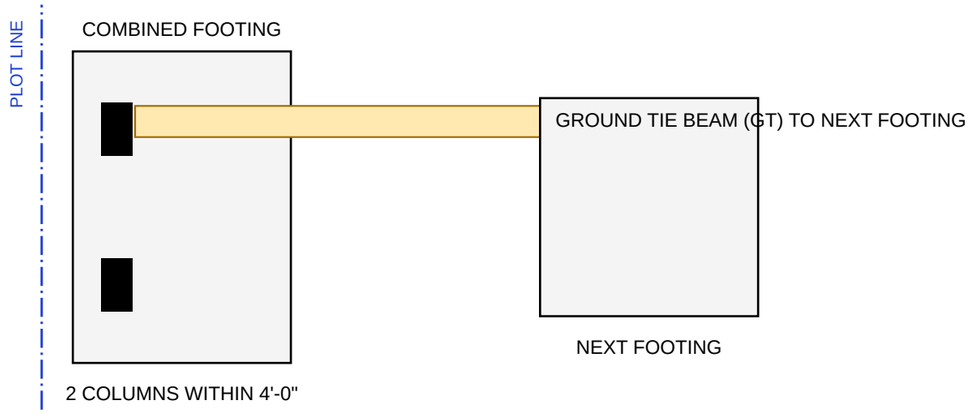
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5. Brick & Stone Work :- 7 days

STAIRCASE PLAN AND RCC DETAILS

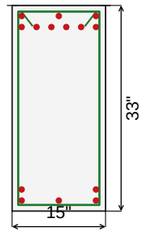
TYPICAL FOOTING SECTION (BOTTOM MESH BOTH WAYS, COVER 50 mm)



COMBINED (BOX) FOOTING - PLAN



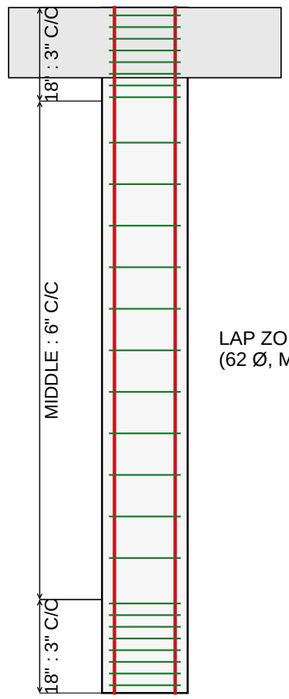
GROUND TIE BEAM SECTION



TOP : 9-20 Ø
BOTTOM : 5-20 Ø
RINGS 8 # @ 6" C/C

GT1 15" x 33"

COLUMN TIES (ELEVATION)

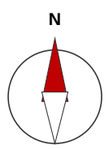


BEAM / SLAB JOINT - 3" C/C TIES

LAP ZONE : MIDDLE THIRD ONLY
(62 Ø, MAX. 50% BARS)

DEVELOPMENT / LAP LENGTH (Fe 550D IN M20)

BAR Ø (mm)	Ld = LAP (mm)	Ld = LAP (IN)
8	498	20" (1'-8")
10	623	25" (2'-1")
12	748	30" (2'-6")
16	997	40" (3'-4")
20	1246	50" (4'-2")
25	1558	62" (5'-2")



HousedesignIndia

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

Client Name:

Project Type : Residential

Sheet No. : S – 11

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

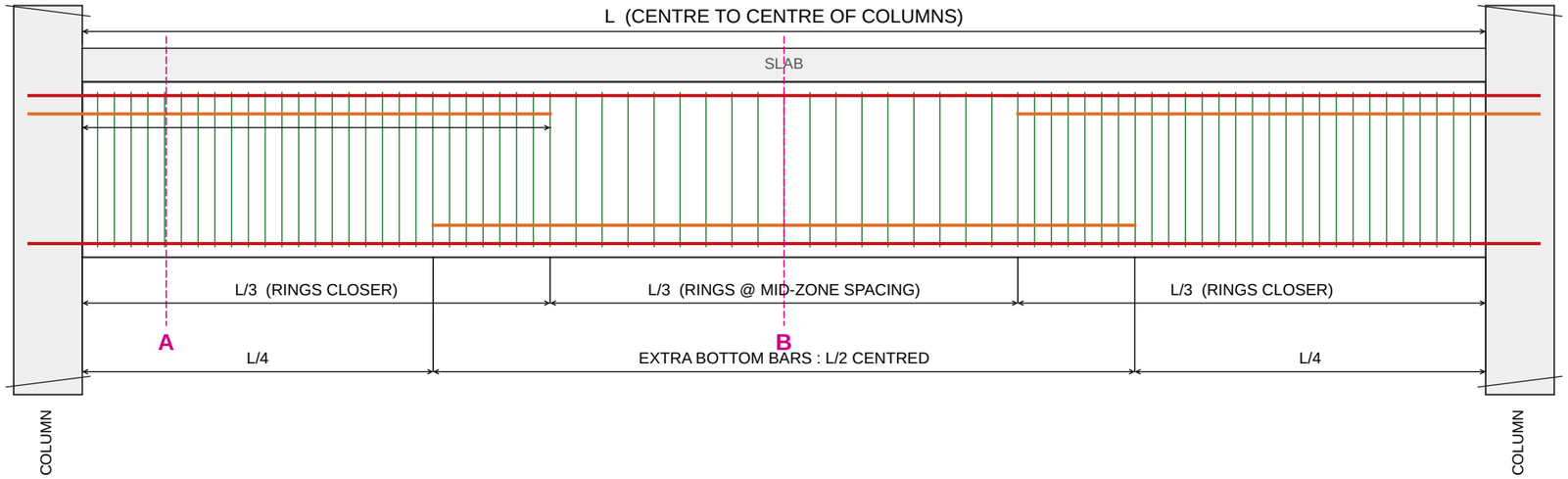
Types of Formwork :
(Formwork removal time after casting of Concrete)
1. Vertical Formwork of
Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
- Span length beyond 6m -21 Days
3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

FOOTING AND COLUMN DETAILS

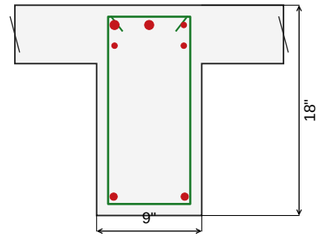
TYPICAL ELEVATION OF ROOF BEAM (BARS AS PER SCHEDULE S-09) - GROUND AND FIRST FLOOR BEAMS (GB = FB)

RED : REIN. AT TOP (FULL LENGTH) AND REIN. AT BOTTOM (FULL LENGTH) - SEE SCHEDULE S-09
ORANGE : EXTRA AT TOP (L/3 FROM EACH SUPPORT FACE) AND EXTRA AT BOTTOM (MID-SPAN L/2)
GREEN : RINGS - CLOSER SPACING UP TO L/3 FROM EACH SUPPORT, WIDER SPACING IN MID ZONE

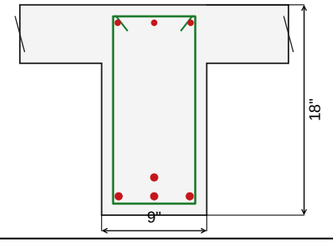


(SHOWN FOR GB5 9" x 18")

SECTION A-A

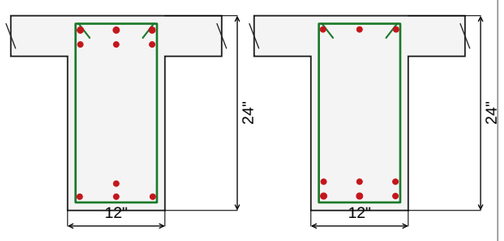


SECTION B-B



BEAM SECTIONS - AT SUPPORT (FACE OF COLUMN, END ZONE) AND AT MID-SPAN

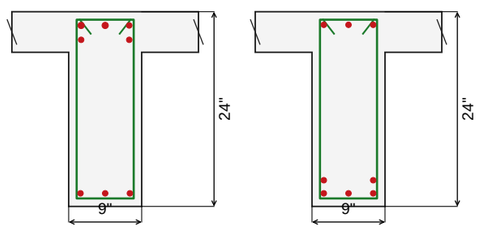
GB1* 12" x 24"



AT SUPPORT
TOP : 3-16 + 3-20 TMT
BOT : 4-16 TMT
RINGS 10# @ 4" C/C

AT MID-SPAN
TOP : 3-16 TMT
BOT : 4-16 + 2-20 TMT
RINGS 10# @ 5" C/C

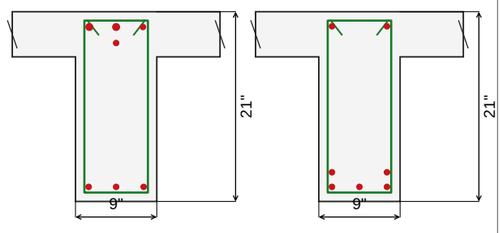
GB2 9" x 24"



AT SUPPORT
TOP : 3-16 + 2-20 TMT
BOT : 3-16 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 3-16 TMT
BOT : 3-16 + 2-16 TMT
RINGS 8# @ 5" C/C

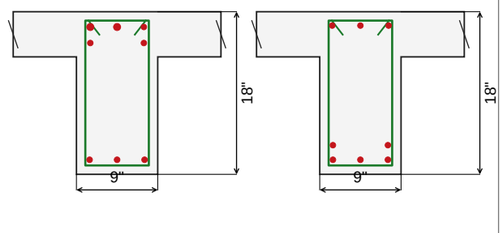
GB3 9" x 21"



AT SUPPORT
TOP : 2-16 + 2-20 TMT
BOT : 3-16 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 2-16 TMT
BOT : 3-16 + 2-16 TMT
RINGS 8# @ 5" C/C

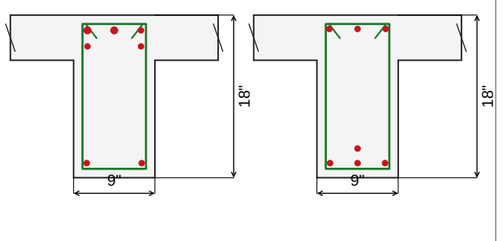
GB4 9" x 18"



AT SUPPORT
TOP : 3-12 + 2-20 TMT
BOT : 3-16 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 3-12 TMT
BOT : 3-16 + 2-12 TMT
RINGS 8# @ 5" C/C

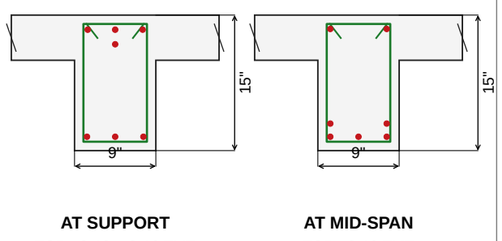
GB5 9" x 18"



AT SUPPORT
TOP : 3-12 + 2-20 TMT
BOT : 2-16 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 3-12 TMT
BOT : 2-16 + 2-16 TMT
RINGS 8# @ 5" C/C

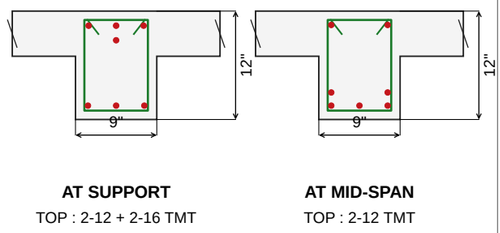
GB6 9" x 15"



AT SUPPORT
TOP : 2-12 + 2-16 TMT
BOT : 3-12 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 2-12 TMT
BOT : 3-12 + 2-12 TMT
RINGS 8# @ 5" C/C

GB7 9" x 12"



AT SUPPORT
TOP : 2-12 + 2-16 TMT
BOT : 3-12 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 2-12 TMT
BOT : 3-12 + 2-12 TMT
RINGS 8# @ 4" C/C

NOTES :

1. TMT Fe 550D, CONCRETE M20.
2. CLEAR COVER TO RINGS : 25 mm (BEAM), SLAB 15 mm.
3. RINGS 2-LEGGED CLOSED, 135° HOOKS, HOOK LENGTH 10 Ø (NOT < 75 mm).
4. FIRST RING 50 mm FROM COLUMN FACE.
5. BARS IN 2 LAYERS WHERE MORE THAN 3 BARS: CLEAR SPACE BETWEEN LAYERS 25 mm.
6. MIN. CLEAR SPACING BETWEEN BARS 2" / 50 mm.
7. * RB1 PENDING APPROVAL (SEE CLARIFICATIONS).
8. DRAWN NOT TO SCALE - FOLLOW DIMENSIONS.

N

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

Client Name:

Project Type : Residential

Sheet No. : S – 12

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

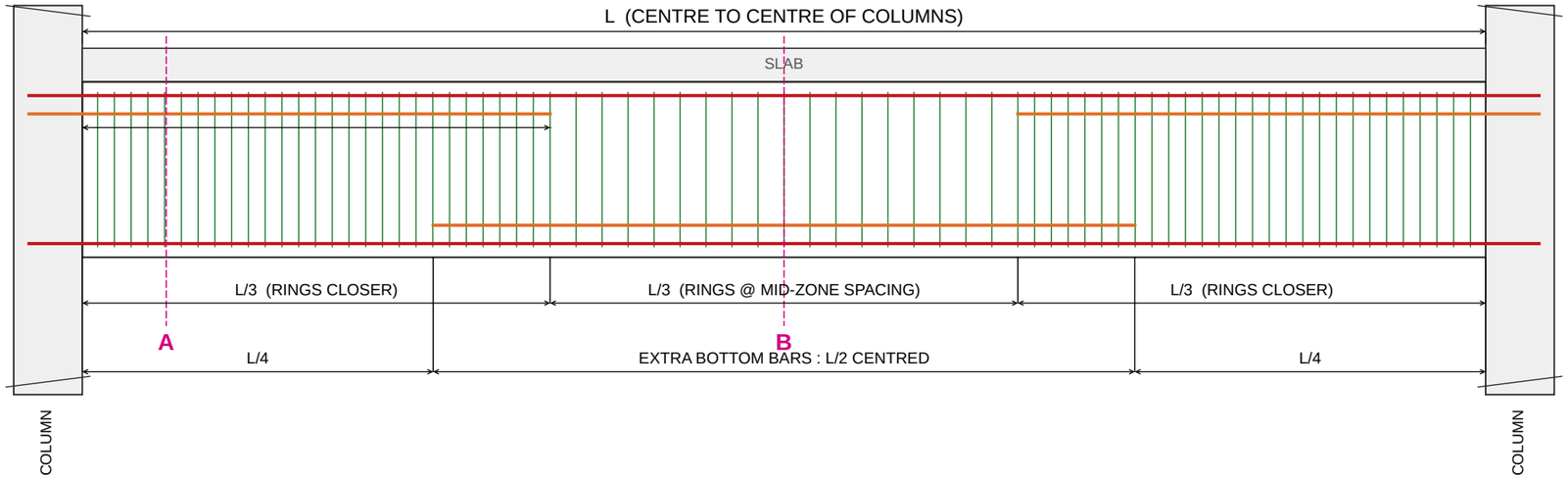
Types of Formwork :
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Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
- Span length beyond 6m -21 Days
3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

TYPICAL PLAN AND SECTION OF BEAM

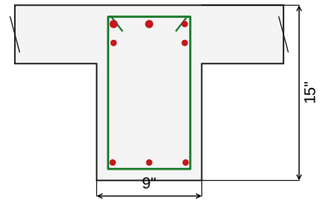
TYPICAL ELEVATION OF ROOF BEAM (BARS AS PER SCHEDULE S-09) - SECOND FLOOR (FUTURE) BEAMS

RED : REIN. AT TOP (FULL LENGTH) AND REIN. AT BOTTOM (FULL LENGTH) - SEE SCHEDULE S-09
ORANGE : EXTRA AT TOP (L/3 FROM EACH SUPPORT FACE) AND EXTRA AT BOTTOM (MID-SPAN L/2)
GREEN : RINGS - CLOSER SPACING UP TO L/3 FROM EACH SUPPORT, WIDER SPACING IN MID ZONE

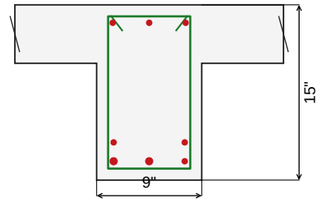


(SHOWN FOR TB5 9" x 15")

SECTION A-A

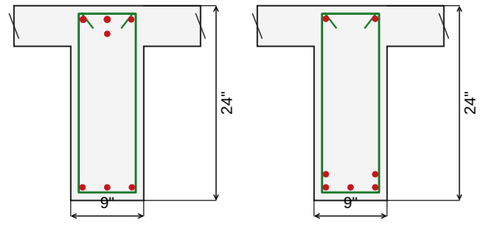


SECTION B-B



BEAM SECTIONS - AT SUPPORT (FACE OF COLUMN, END ZONE) AND AT MID-SPAN

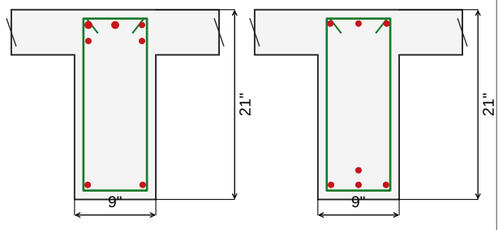
TB1 9" x 24"



AT SUPPORT
TOP : 2-16 + 2-20 TMT
BOT : 3-16 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 2-16 TMT
BOT : 3-16 + 2-16 TMT
RINGS 8# @ 5" C/C

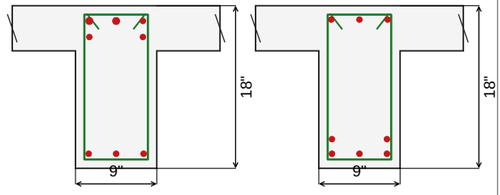
TB2 9" x 21"



AT SUPPORT
TOP : 3-12 + 2-20 TMT
BOT : 2-16 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 3-12 TMT
BOT : 2-16 + 2-16 TMT
RINGS 8# @ 5" C/C

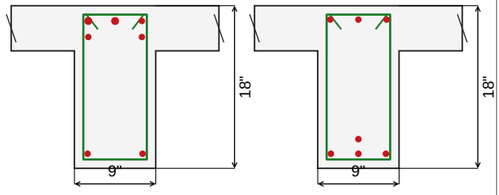
TB3 9" x 18"



AT SUPPORT
TOP : 3-12 + 2-20 TMT
BOT : 3-16 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 3-12 TMT
BOT : 3-16 + 2-12 TMT
RINGS 8# @ 5" C/C

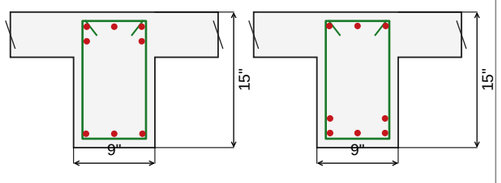
TB4 9" x 18"



AT SUPPORT
TOP : 3-12 + 2-20 TMT
BOT : 2-16 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 3-12 TMT
BOT : 2-16 + 2-16 TMT
RINGS 8# @ 5" C/C

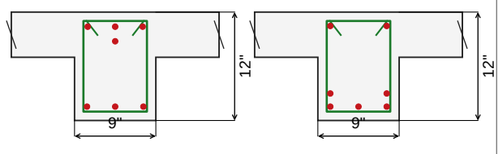
TB5 9" x 15"



AT SUPPORT
TOP : 3-12 + 2-16 TMT
BOT : 3-12 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 3-12 TMT
BOT : 3-12 + 2-16 TMT
RINGS 8# @ 5" C/C

TB6 9" x 12"



AT SUPPORT
TOP : 2-12 + 2-16 TMT
BOT : 3-12 TMT
RINGS 8# @ 4" C/C

AT MID-SPAN
TOP : 2-12 TMT
BOT : 3-12 + 2-12 TMT
RINGS 8# @ 4" C/C

NOTES :

1. TMT Fe 550D, CONCRETE M20.
2. CLEAR COVER TO RINGS : 25 mm (BEAM), SLAB 15 mm.
3. RINGS 2-LEGGED CLOSED, 135° HOOKS, HOOK LENGTH 10 Ø (NOT < 75 mm).
4. FIRST RING 50 mm FROM COLUMN FACE.
5. BARS IN 2 LAYERS WHERE MORE THAN 3 BARS: CLEAR SPACE BETWEEN LAYERS 25 mm.
6. MIN. CLEAR SPACING BETWEEN BARS 2" / 50 mm.
7. * RB1 PENDING APPROVAL (SEE CLARIFICATIONS).
8. DRAWN NOT TO SCALE - FOLLOW DIMENSIONS.

N

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

Client Name:

Project Type : Residential

Sheet No. : S – 12A

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

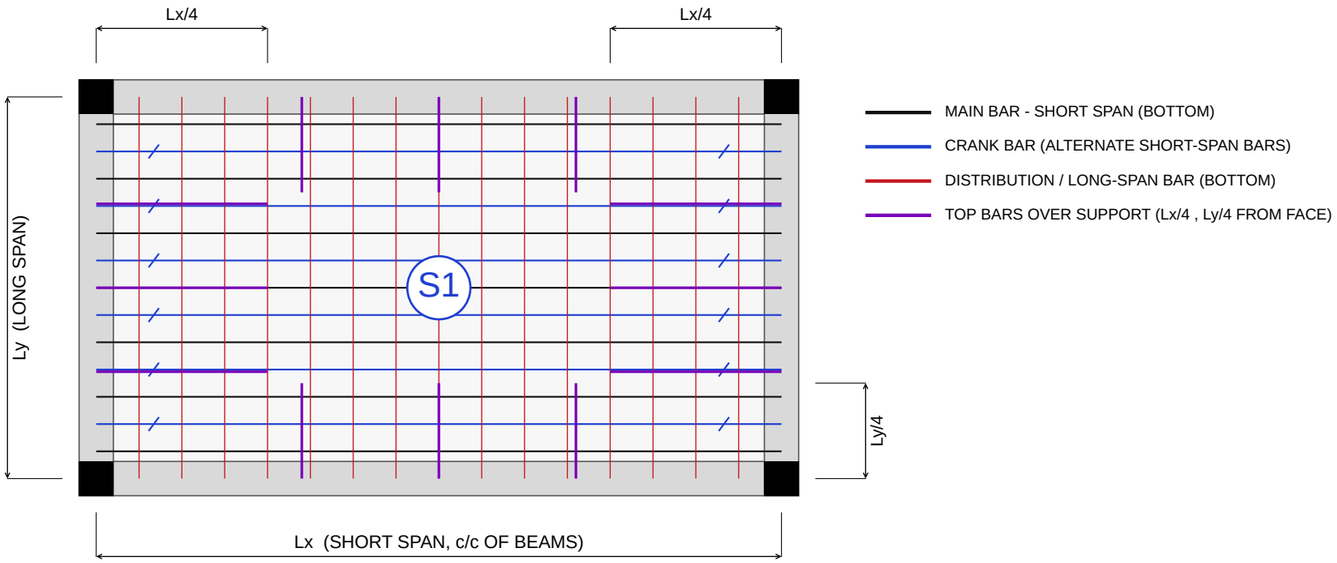
MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
1. Vertical Formwork of
Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
- Span length beyond 6m -21 Days
3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

TYPICAL PLAN AND SECTION OF BEAM

TYPICAL PLAN OF SLAB PANEL (TWO WAY SLAB - S1)

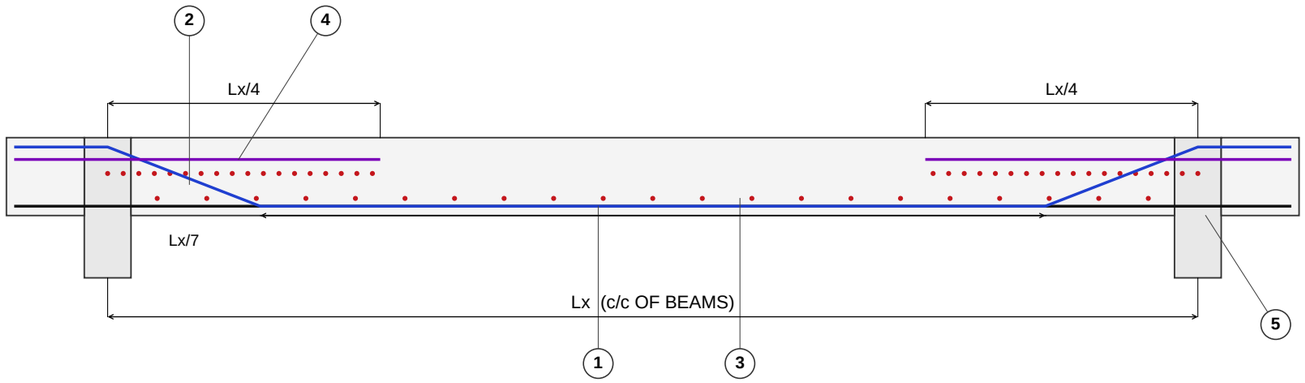


MAIN BAR - SHORT SPAN (BOTTOM)
CRANK BAR (ALTERNATE SHORT-SPAN BARS)
DISTRIBUTION / LONG-SPAN BAR (BOTTOM)
TOP BARS OVER SUPPORT (Lx/4 , Ly/4 FROM FACE)

SLAB NOTES

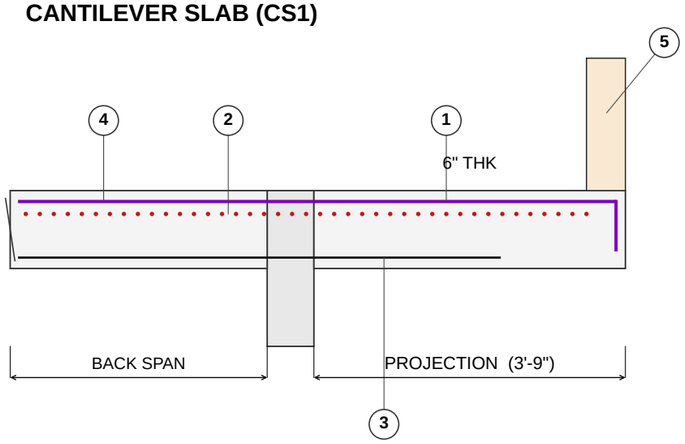
1. SLAB TYPES, THICKNESS AND BARS : SEE SCHEDULE S-09.
2. MAIN BARS IN THE SHORT SPAN DIRECTION LIE AT THE BOTTOM (OUTER LAYER); LONG-SPAN BARS ABOVE THEM.
3. ALTERNATE MAIN BARS ARE CRANKED AT Lx/7 FROM THE SUPPORT FACE AND CARRIED OVER THE SUPPORT.
4. TOP BARS AT CONTINUOUS EDGES EXTEND Lx/4 (SHORT) AND Ly/4 (LONG) FROM THE FACE OF THE SUPPORTING BEAM.
5. ONE WAY SLAB S2 : SEE S-09A.
6. CLEAR COVER TO SLAB BARS 15 mm - USE CEMENT / PLASTIC COVER BLOCKS @ 3'-0" C/C BOTH WAYS.
7. CANTILEVER SLAB : TOP BARS EXTEND INTO THE BACK SPAN NOT LESS THAN (PROJECTION + 62 Ø). DO NOT STRIP PROPS BEFORE 14 DAYS (SEE NOTES SHEET S-15).
8. SUNK SLAB DEPRESSION "X" AND WATERPROOFING TO BE CONFIRMED BY THE ARCHITECT BEFORE CASTING (PENDING).
9. STAIRCASE SLAB / LANDINGS : PENDING - NOT ISSUED IN THIS SET (SEE CLARIFICATION LIST).
10. SLAB OUTLINE AND THE SIT-OUT PROJECTION ARE TAKEN FROM THE CLIENT PLAN (NO ELEVATION AVAILABLE - SEE CLARIFICATION LIST).

TYPICAL SECTION VIEW OF SLAB PANEL (ACROSS SHORT SPAN Lx)



1. MAIN BAR 10 Ø @ 6" C/C - BOTTOM, SHORT SPAN
2. CRANK BAR - ALTERNATE MAIN BARS, CRANKED AT Lx/7
3. DISTRIBUTION BAR 8 Ø @ 7" C/C - LONG SPAN
4. TOP BAR OVER SUPPORT, Lx/4 FROM FACE
5. SUPPORTING BEAM (SEE SCHEDULE S-09)

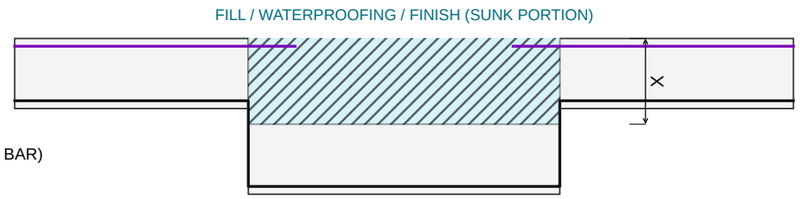
CANTILEVER SLAB (CS1)



1. MAIN TOP BAR 10 Ø @ 6" C/C
2. DISTRIBUTION BAR 8 Ø @ 7" C/C (UNDER TOP BAR)
3. NOMINAL BOTTOM BAR 8 Ø @ 7" C/C
4. TOP BAR INTO BACK SPAN : MIN. (PROJ. + 62 Ø)
5. PARAPET / UPSTAND (AS PER ARCH.)

SUNK SLAB DETAIL (WET AREAS - IF REQUIRED)

5" SLAB - SAME BARS AS S1, BARS FOLLOW THE SUNK PROFILE



X = DEPRESSION TO BE CONFIRMED (ARCHITECT)

N

HousedesignIndia

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

Client Name:

Project Type : Residential

Sheet No. : S – 13

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
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6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
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9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

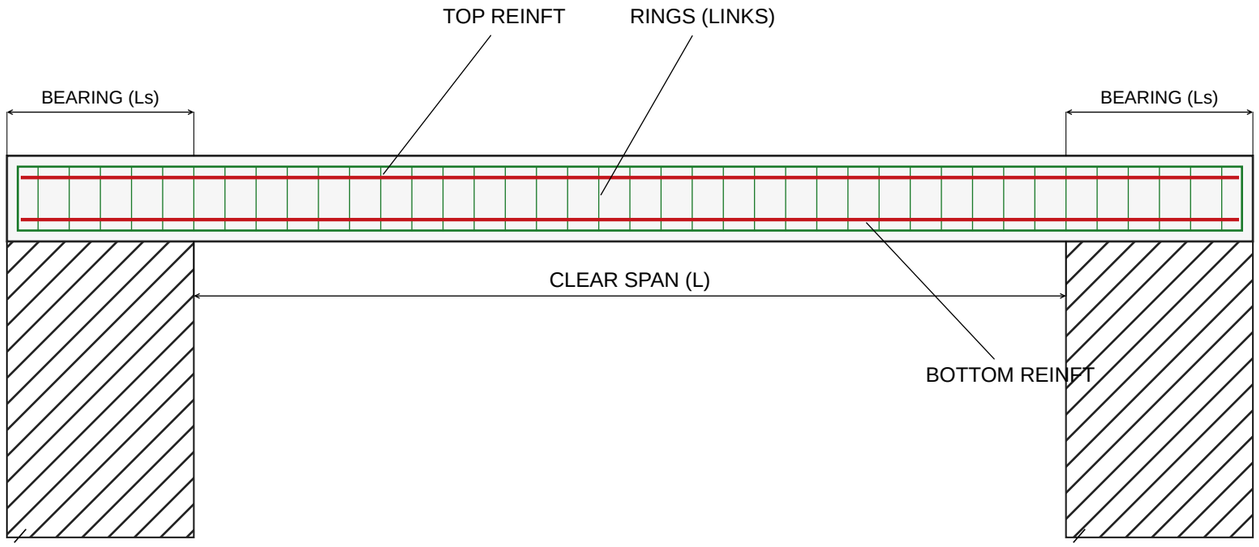
MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
1. Vertical Formwork of
Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
- Span length beyond 6m -21 Days
3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

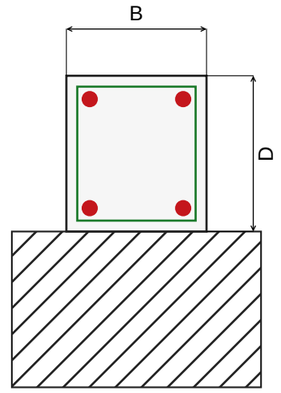
Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

TYPICAL PLAN AND SECTION OF SLAB

LINTEL DETAILS



ELEVATION OF LINTEL OVER OPENING



SECTION

CLEAR SPAN (L)	DEPTH (D) (in)	BREADTH (B) 9" WALL	TOP REINFT 9" WALL	BOTTOM REINFT 9" WALL	BREADTH (B) 5" WALL	TOP REINFT 5" WALL	BOTTOM REINFT 5" WALL	LINKS / STIRRUPS	BEARING (Ls) (in)
UP TO 3'-0"	5"	9"	2 NOS 10 TMT	2 NOS 10 TMT	5"	2 NOS 10 TMT	2 NOS 10 TMT	8 MM RINGS @ 150 MM c/c	9"
3'-0" TO 4'-6"	5"	9"	2 NOS 10 TMT	2 NOS 10 TMT	5"	2 NOS 10 TMT	2 NOS 10 TMT	8 MM RINGS @ 150 MM c/c	9"
4'-6" TO 6'-0"	5"	9"	2 NOS 10 TMT	2 NOS 10 TMT	5"	2 NOS 10 TMT	2 NOS 10 TMT	8 MM RINGS @ 150 MM c/c	9"
6'-0" TO 8'-0"	6"	9"	2 NOS 10 TMT	2 NOS 10 TMT	5"	2 NOS 10 TMT	2 NOS 10 TMT	8 MM RINGS @ 150 MM c/c	12"
8'-0" TO 10'-0"	7"	9"	2 NOS 10 TMT	2 NOS 10 TMT	5"	2 NOS 10 TMT	2 NOS 10 TMT	8 MM RINGS @ 150 MM c/c	12"
10'-0" TO 12'-0"	9"	9"	2 NOS 12 TMT	2 NOS 12 TMT	5"	2 NOS 10 TMT	2 NOS 10 TMT	8 MM RINGS @ 150 MM c/c	12"
12'-0" TO 14'-0"	9"	9"	2 NOS 12 TMT	2 NOS 12 TMT	5"	2 NOS 10 TMT	2 NOS 10 TMT	8 MM RINGS @ 150 MM c/c	12"

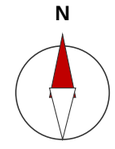
NOTE: LINTEL SOFFIT WILL BE AT 7'-0" HEIGHT ON ALL DOORS AND WINDOWS (BATHROOM VENTILATOR : SILL 7'-4", TOP 8'-10") - SAME LEVEL ON PLAN, SECTION AND SCHEDULE.

NOTE: IF WALL BREADTH IS 9" THEN 9" WILL BE THE BREADTH OF LINTEL BEAM AND IF WALL BREADTH IS 5" THEN BREADTH OF LINTEL BEAM WILL BE 5".

NOTE: TOP AND BOTTOM BARS FULL LENGTH (CLEAR SPAN + BEARING EACH END, NOT LESS THAN Ls INTO THE WALL). COVER 25 mm. CONCRETE M20, TMT Fe 550D.

NOTE: LINTELS ARE DESIGNED FOR NOT MORE THAN 2'-0" HEIGHT OF BRICKWORK ABOVE THE LINTEL. WHERE A BEAM / SLAB / CHAJJA IS CAST ON THE LINTEL, OR THE WALL ABOVE IS HIGHER, THE LINTEL MUST BE RE-CHECKED BEFORE CASTING (SEE CLARIFICATION LIST). OPENINGS WITH A BEAM DIRECTLY ABOVE NEED NO SEPARATE LINTEL.

NOTE: CONTINUOUS LINTEL BAND IS NOT USED. TWO LAYERS OF BITUMINOUS PAPER BETWEEN LINTEL BEARING AND BRICKWORK AS PER RCC NOTES (S-15).



HousedesignIndia

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

Client Name:

Project Type : Residential

Sheet No. : **S – 14**

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

CLEAR COVER TO MAIN REINFORCEMENT :
1.FOOTINGS : 50 mm
2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
1. Vertical Formwork of
Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
- Span length up to 6m -14 Days
- Span length beyond 6m -21 Days
3. Props removal for slab
- Span length up to 4.5m -7 days
- Span length beyond 4.5m -14 days

Curing Time For :
1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
4. Plastering & Pointing : - 7 days
5. Brick & Stone Work :- 7 days

LINTEL DETAIL

#. CONCRETE.

AS PER IS 456 : 2000

IS 456-2000 CODE FOR PCC AND RCC .

THE MAXI. SIZES OF AGGREGATE USED IN RCC IS LIMITED TO 20 MM

HOWEVER 10 mm ,15 mm are also used, in some expectations 25 mm is also used .

#. REINFORCING STEEL

1. AS PER IS 800-2007
2. REINFORCEMENT SHALL BE USED TMT BARS .
3. TMT Bars - Thermo-Mechanical Treated Bars STEEL
4. TMT BAR GRADE Fe-500, Fe-550D OR HIGHER GRADE STEEL.
5. TMT steel bars from different brands like TATA, Jindal, JSW and more

#. TWO LAYERS OF BITUMENOUS PAPER TO BE PROVIDED ON SUPPORTS UNDER SLABS, BEAMS AND LINTELS.

#. STRUCTURE DRAWINGS ARE DESIGN ACCORDING TO IS CODE .

#. LAPPING LENGTH SHOULD BE PROVIDED 48D -50D (D-DIA OF BAR) ,
(FOR Fe 550D IN M20 CONCRETE NOT LESS THAN 62D - SEE TABLE ON S-11)

#. MINIMUM SPACING BETWEEN LONGITUDINAL BARS SHOULD BE 2 INCHES OR 50 MM .

NOTE- **Types of Formwork** (Formwork removal time after casting of Concrete)

1. Vertical Formwork of Column, beam, and wall - 16 Hours to 24 hours
2. Props removal for beams and arches
#. Span length up to 6m -14 Days
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3. Props removal for slab
#. Span length up to 4.5m -7 days
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NOTE- **Curing Time For :**

1. PCC (Plain Cement Concrete) - 14 days
2. RCC (Reinforced Cement Concrete) :- 10 days
3. FLOORING :- 10 days
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5. Brick & Stone Work :- 7 days

REVISION

REV	DATE	DESCRIPTION	BY
R1	20-10-2026	REVISED - NOT FOR CONSTRUCTION	MMH

#. ADDITIONAL NOTES - COMPLETE STRUCTURE SET)

DESIGN STATUS
THIS SET IS ISSUED FOR REVIEW. IT IS NOT APPROVED FOR CONSTRUCTION UNTIL REVIEWED AND SIGNED BY THE RESPONSIBLE STRUCTURAL ENGINEER. ITEMS MARKED "PENDING" OR "*" MUST NOT BE CAST.

REFERENCE
COLUMN POSITIONS, SIZES AND ORIENTATION ARE TAKEN FROM THE CLIENT COLUMN / BEAM LAYOUT JI STRUCTURE.DWG) AND ARE NOT ALTERED. SITE DATA (SEISMIC ZONE III, SBC 150 kN/m²) ARE ASSUMED - SEE S-00.

SEISMIC DETAILING
SEISMIC ZONE III (ASSUMED). DUCTILE DETAILING AS PER IS 13920 : CLOSER RINGS NEAR SUPPORTS, 135 DEG HOOKS, NO LAP WITHIN 2 x D OF THE COLUMN FACE OR IN THE END QUARTER OF A BEAM, MAX. 50% OF BARS LAPPED AT ONE SECTION.

COVER
BEAM 25 mm, SLAB 15 mm, COLUMN 40 mm (SIDE PANEL). USE CEMENT / PLASTIC COVER BLOCKS - NOT BRICK BATS OR STONE CHIPS.

BEAMS
BEAM WIDTH 9" (RB1 : 12"), D INCLUDES THE SLAB. RINGS 8 mm 2-LEGGED CLOSED, SPACING AS SCHEDULE S-09. FIRST RING 50 mm FROM THE COLUMN FACE. SECONDARY BEAMS REST ON THE MAIN BEAM : PROVIDE THE EXTRA SUSPENSION RINGS SHOWN ON S-12.

SLABS
SLAB THICKNESS AND BARS AS SCHEDULE S-09 AND DETAILS S-13. NO OPENINGS, SLEEVES OR CHASES THROUGH SLABS / BEAMS WITHOUT APPROVAL. SUNK SLAB DEPRESSION, STAIRCASE SLABS AND LANDINGS ARE PENDING.

LINTELS
LINTEL SOFFIT 7'-0" ON ALL OPENINGS (SCHEDULE S-14). SEAT LINTELS ON TWO LAYERS OF BITUMINOUS PAPER. DO NOT CUT BARS TO FIT SERVICES.

LOADING ON SITE
DO NOT STACK BRICKS, SAND OR STEEL ON FRESHLY CAST OR PROPPED SLABS / CANTILEVERS. PROPS UNDER CANTILEVERS REMAIN FOR 14 DAYS MINIMUM AND UNTIL THE BACK SPAN IS CAST AND CURED.

DIMENSIONS
ALL DIMENSIONS IN INCHES UNLESS NOTED. DO NOT SCALE THE DRAWINGS. ANY DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS MUST BE REPORTED BEFORE WORK STARTS.

BAR BENDING SCHEDULE
NOT ISSUED IN THIS SET. TO BE PREPARED AFTER THE REINFORCEMENT DETAILS ARE APPROVED BY THE STRUCTURAL ENGINEER.

DRAWING LIST

SHEET	DRAWING TITLE
S-00	DESIGN BASIS
S-01	COLUMN PLAN
S-02	CENTRELINE PLAN
S-03	FOUNDATION PLAN
S-04	COLUMN SCHEDULE
S-05	PLINTH BEAM PLAN
S-06	GF ROOF PLAN
S-07	FF ROOF PLAN

SHEET	DRAWING TITLE
S-08	SF ROOF PLAN (FUTURE)
S-09	BEAM SCHEDULE
S-09A	SLAB SCHEDULE
S-10	STAIRCASE
S-11	FOOTING / COLUMN
S-12/12A	BEAM SECTIONS
S-13	SLAB SECTIONS
S-14 / 15	LINTEL / NOTES

HousedesignIndia

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

Client Name:

Project Type : Residential

Sheet No. : S – 15

Date : Oct 20, 2026

NOTE:
SOIL BEARING CAPACITY
Foundations have been designed
According to given site soil condition.
STEEL REINFORCEMENT
Steel Reinforcement confirming to IS 1786-1985 code,
FE - 550 grade should be used.

CONCRETE GRADE :
M7.5 = 1:4:8 (USED AS P.C.C.)
M20= 1:1.5:3 (USE M20 GRADE IN BUILDING)
M25= 1:1:2

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2.RAFT FOUNDATION.TOP : 50 mm
3.RAFT FOUNDATION.
BOTTOM/SIDES : 75 mm
4.STRAP BEAM : 50 mm
5.GRADE SLAB : 20 mm
6.COLUMN : 40 mm
7.SHEAR WALL : 25 mm
8.BEAMS : 25 mm
9.SLABS : 15 mm
10.STAIRCASE : 15 mm
11.WATER RETAINING
STRUCTURES : 20/30 mm

LAPPING LENGTH SHOULD BE PROVIDED
48D -50D (D-DIA OF BAR).

MINIMUM SPACING BETWEEN
LONGITUDINAL BARS
SHOULD BE 2 INCHES OR 50 MM .

Types of Formwork :
(Formwork removal time after casting of Concrete)
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Column, beam, and wall - 16 Hours to 24 hours
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RCC NOTES

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

Client Name :

Project Type : Residential

Date : Oct 20, 2026

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)

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
D-12	TOILETS ENLARGED - DRAINAGE	1:35
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
D-18	SOAK PIT & HARVESTING PIT	1:30
D-19	TRENCH, CHAMBER & UG TANK DETAILS	1:24-1:30
D-20	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
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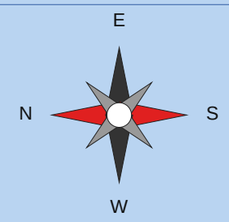
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

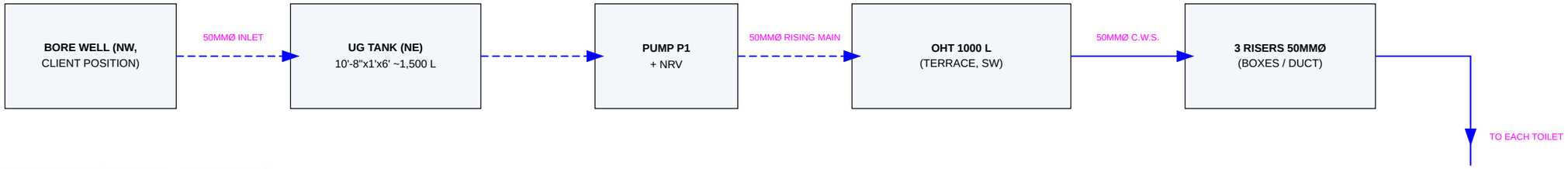
STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

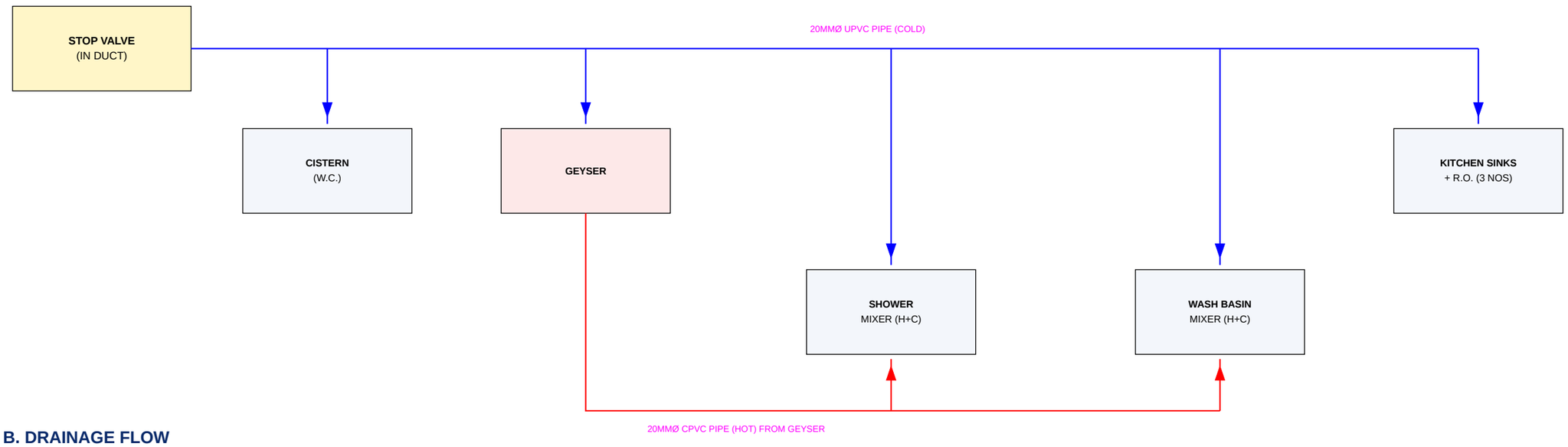
LINE WT: 0.30 mm (PIPES)

GENERAL NOTES, SPECIFICATIONS & INDEX

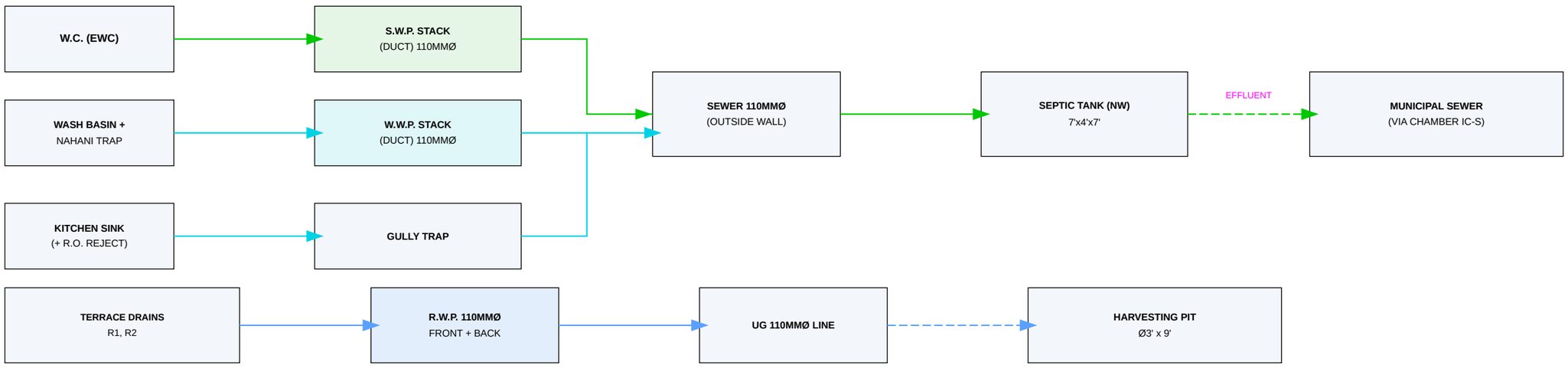
A. WATER SUPPLY FLOW



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



B. DRAINAGE FLOW



FLOW DIAGRAMS

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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 :

Project Type : Residential

Date : Oct 20, 2026

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.

E
N S
W
NORTH AS PER CLIENT MODEL COMPASS

WATER SUPPLY & DRAINAGE FLOW DIAGRAMS

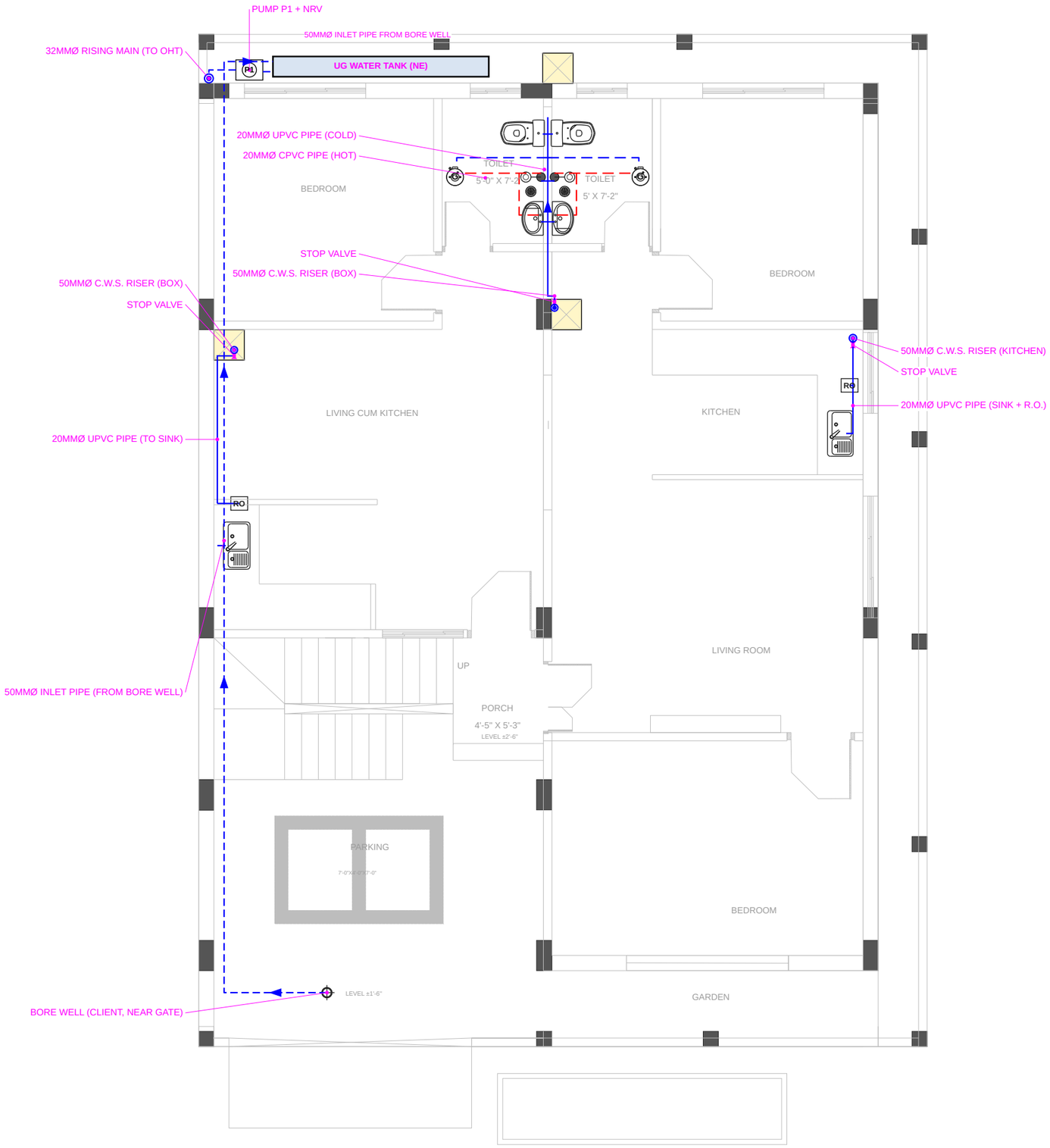
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)



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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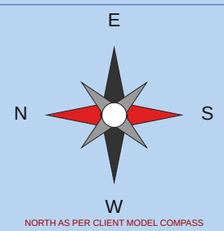
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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

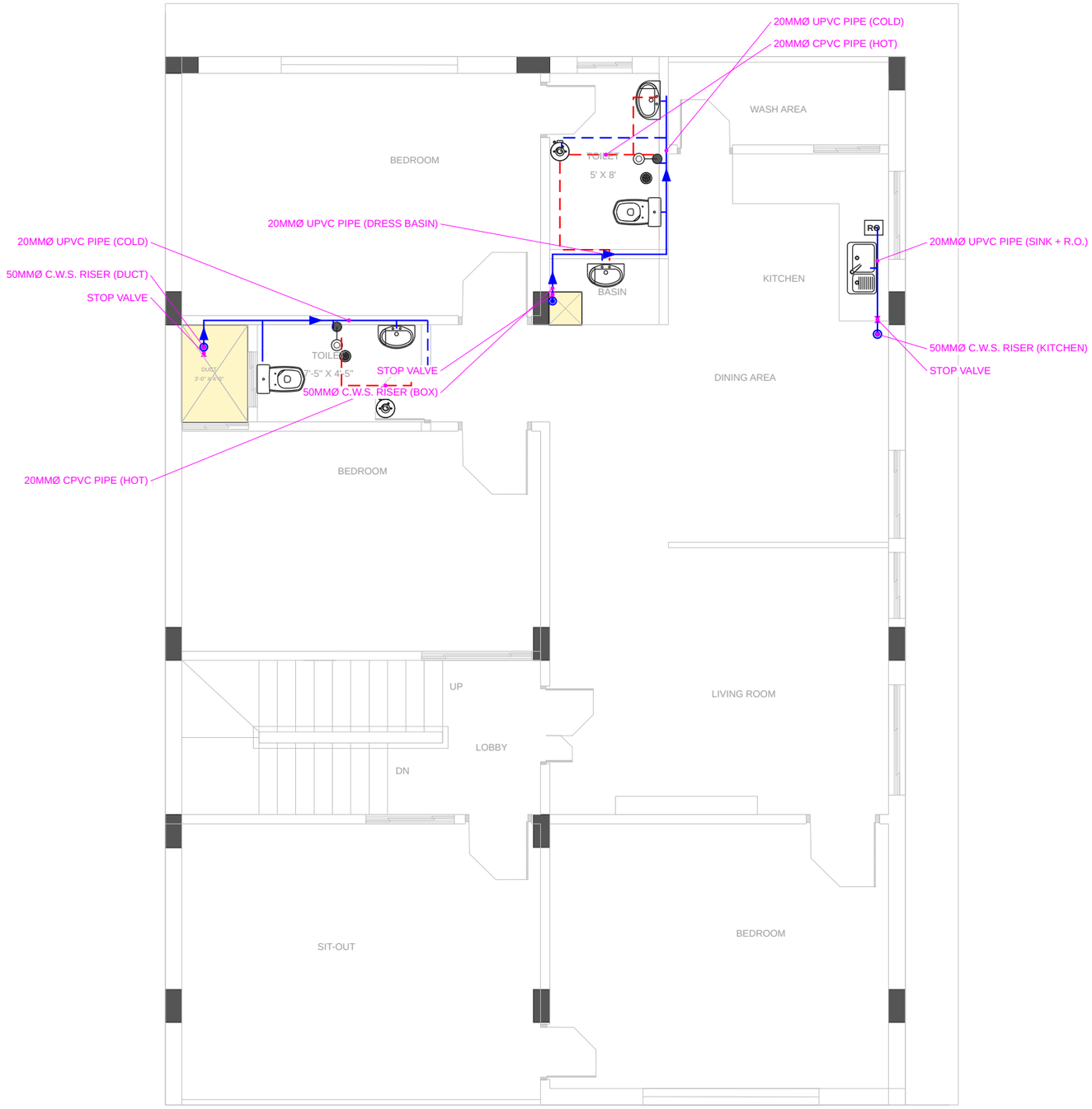
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)



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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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 :

Project Type : Residential

Date : Oct 20, 2026

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).

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NORTH AS PER CLIENT MODEL COMPASS

FIRST FLOOR WATER SUPPLY

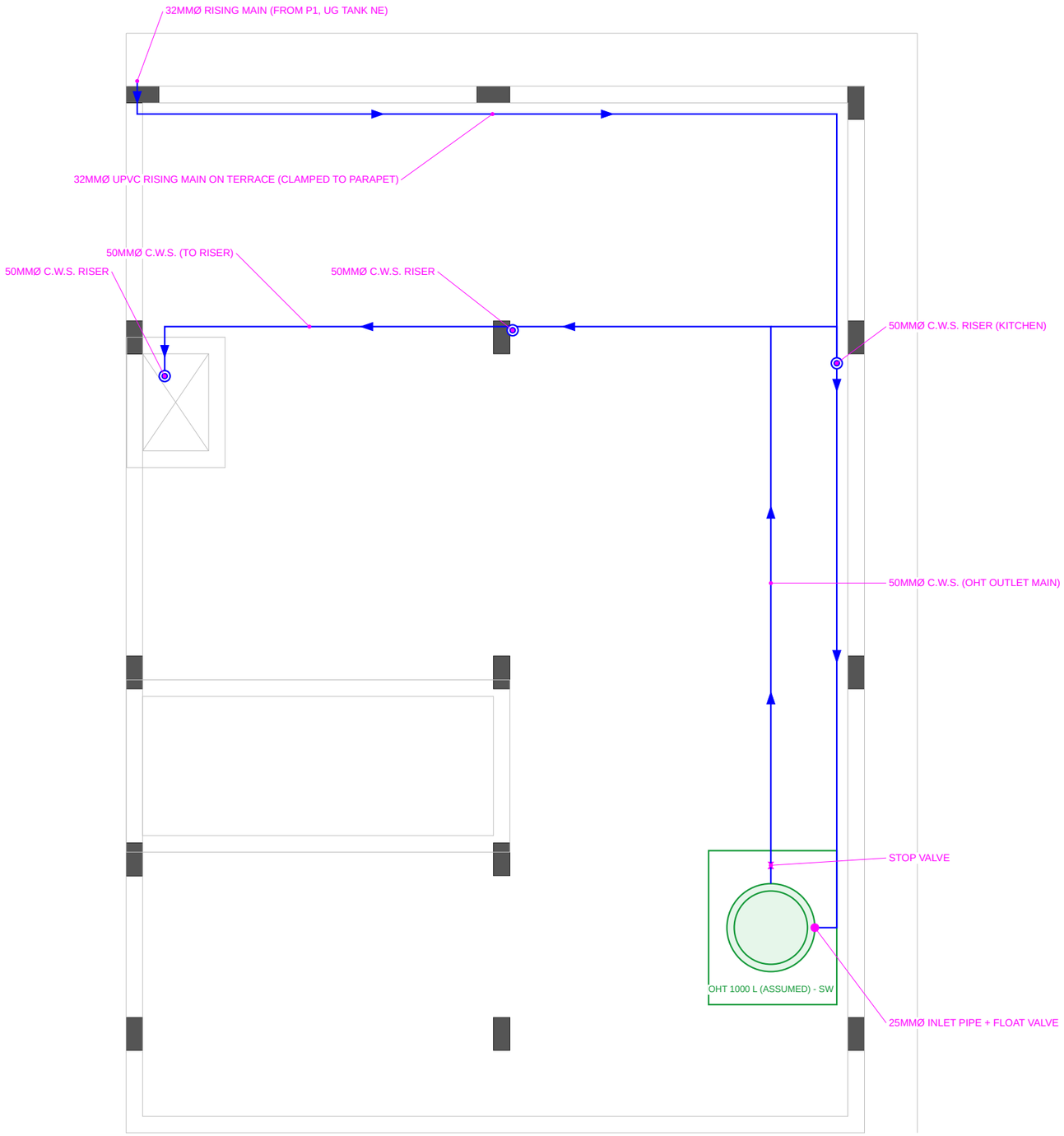
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)



TERRACE WATER SUPPLY

SCALE 1:70

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.

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Client Name :

Project Type : Residential

Date : Oct 20, 2026

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)

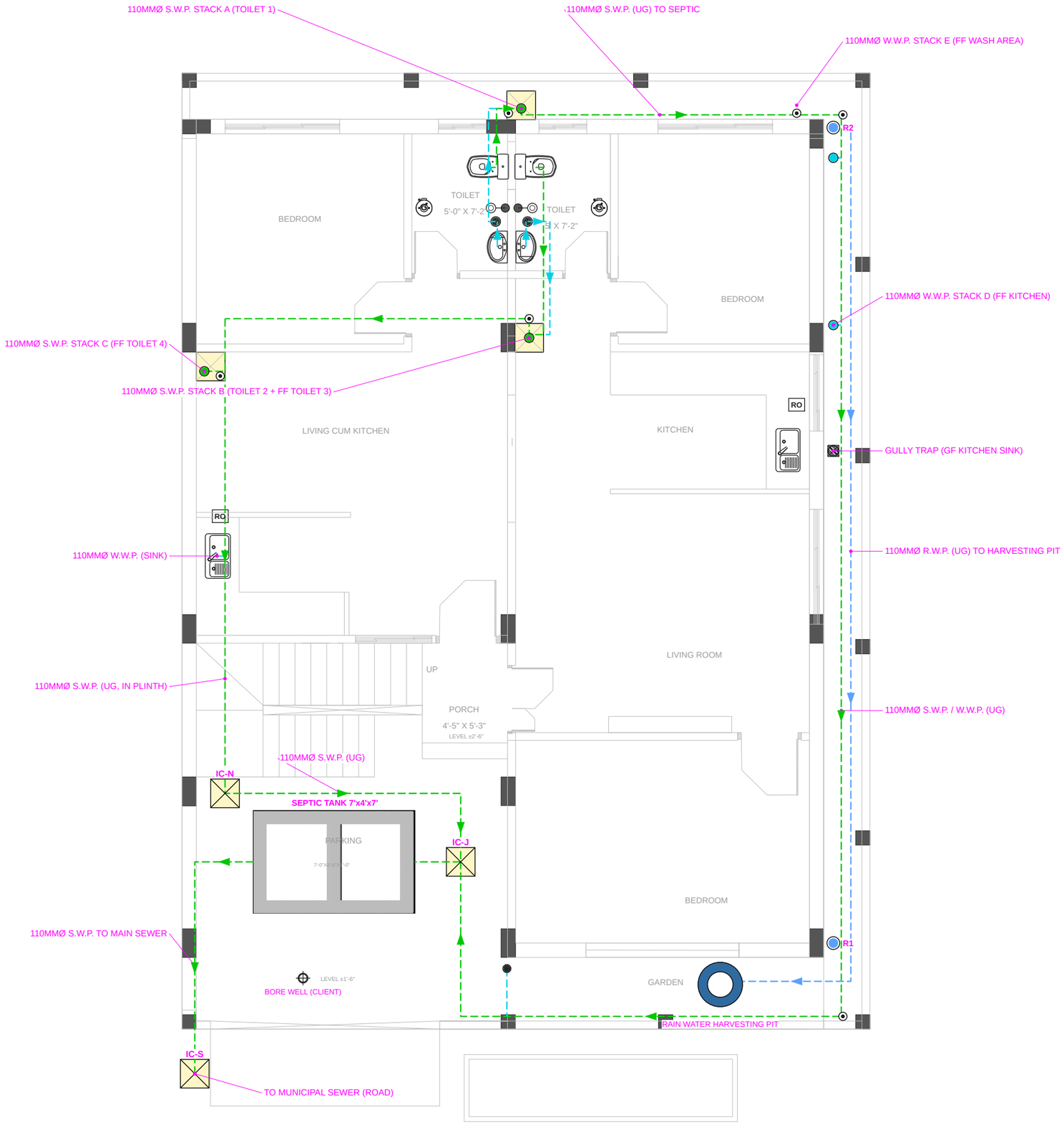
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)



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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0731-6803999

Client Name :

Project Type : Residential

Date : Oct 20, 2026

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.

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NORTH AS PER CLIENT MODEL COMPASS

GROUND FLOOR & SITE DRAINAGE

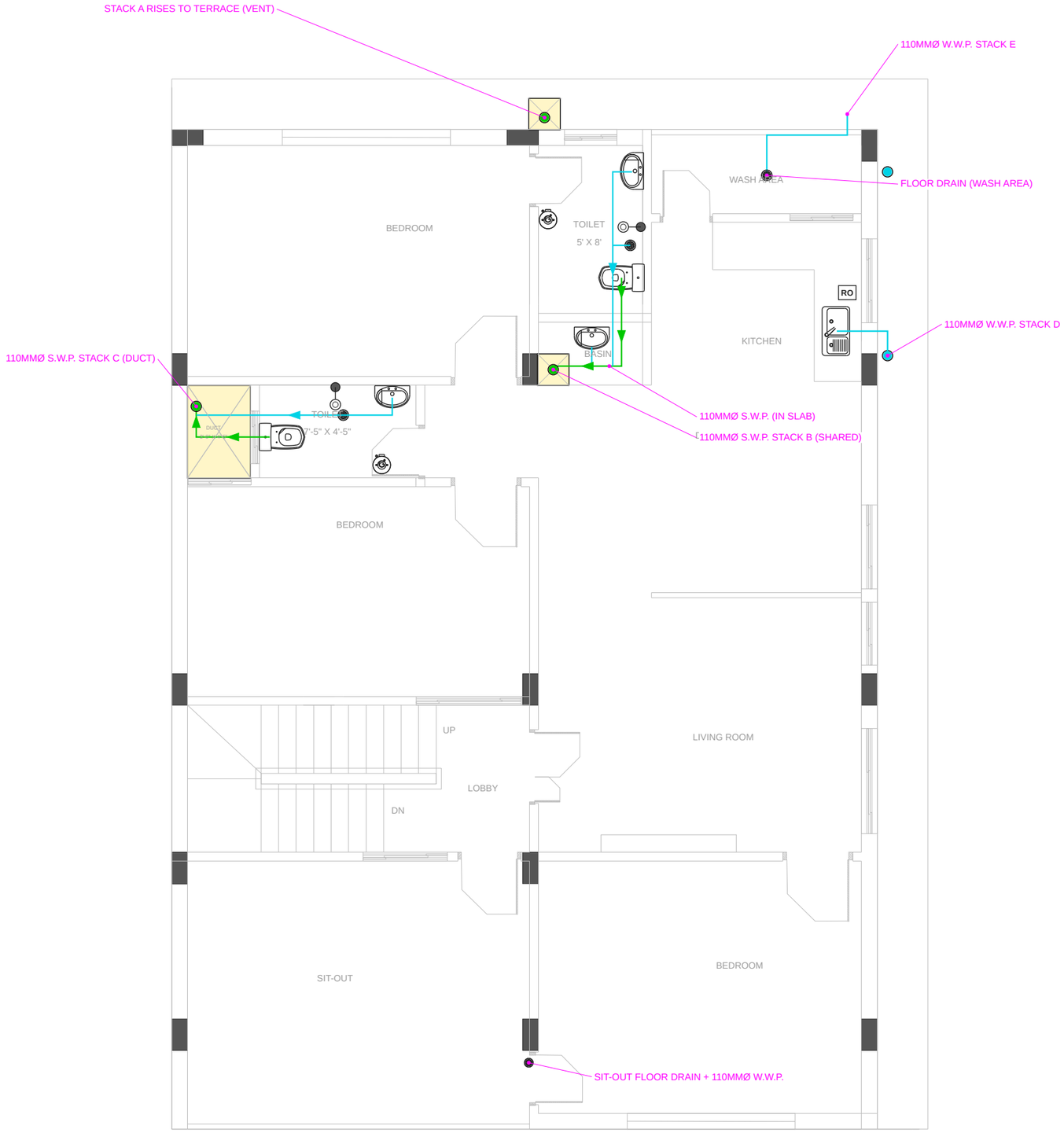
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)



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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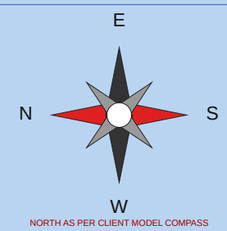
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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

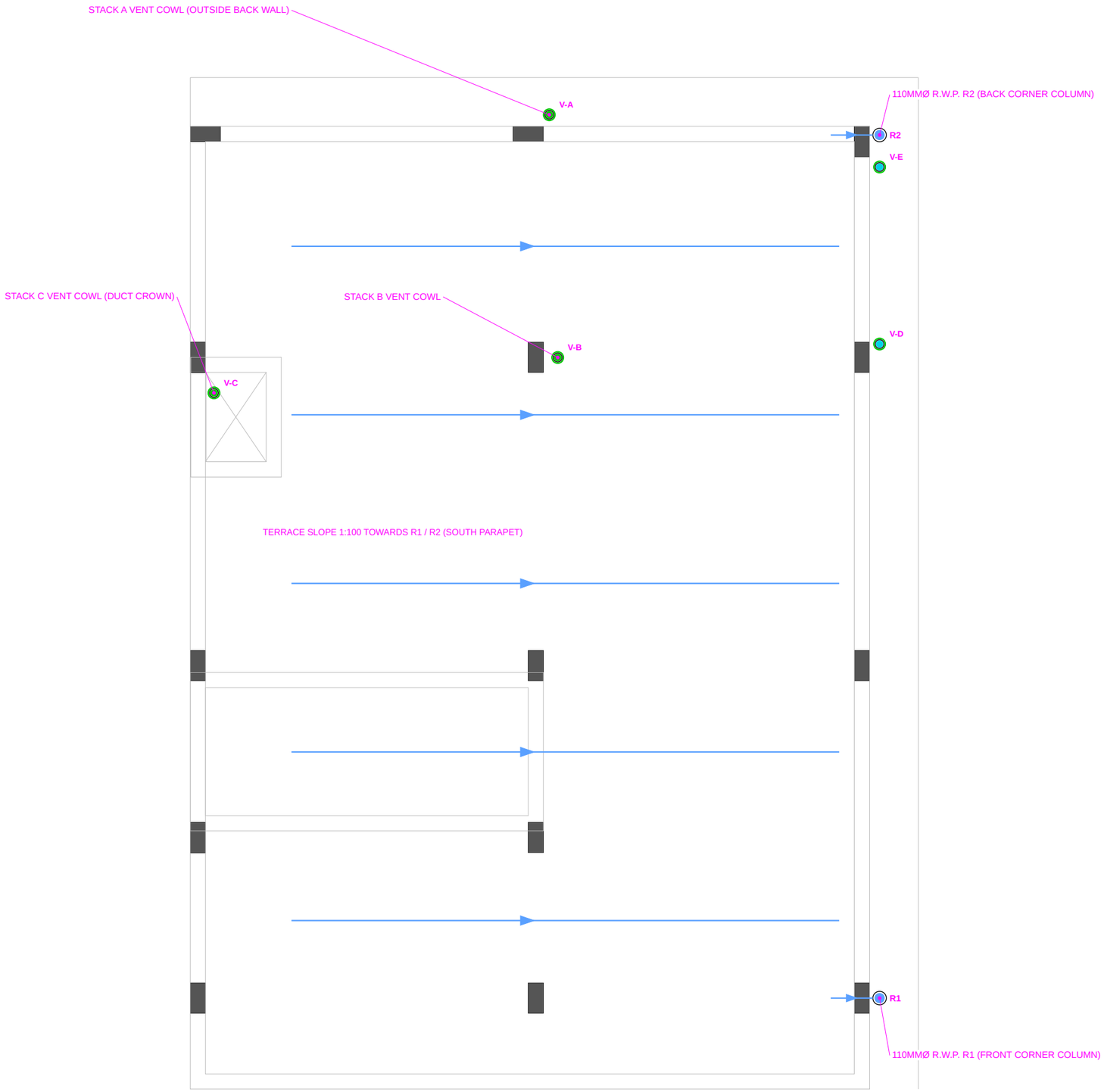
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)



TERRACE DRAIN WATER & STACK VENTS

SCALE 1:70

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.

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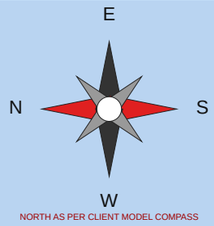
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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

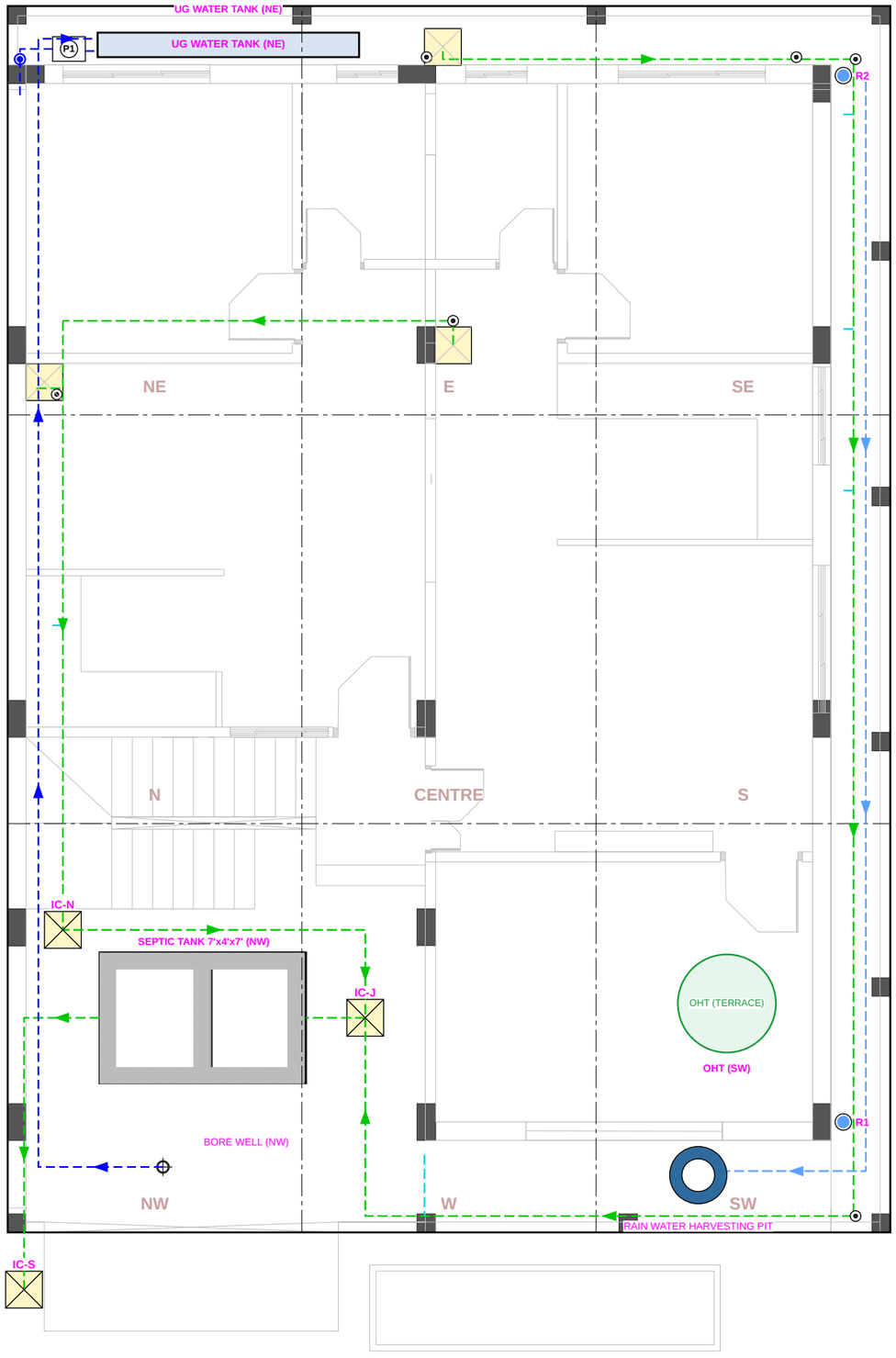
REV	DATE	DESCRIPTION
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PREPARED: MEP / DRAINAGE CHECKED: -

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LINE WT: 0.30 mm (PIPES)



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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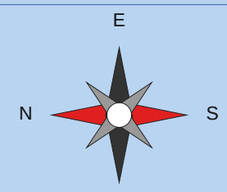
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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.



NORTH AS PER CLIENT MODEL COMPASS

SITE SERVICES LAYOUT & VASTU

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

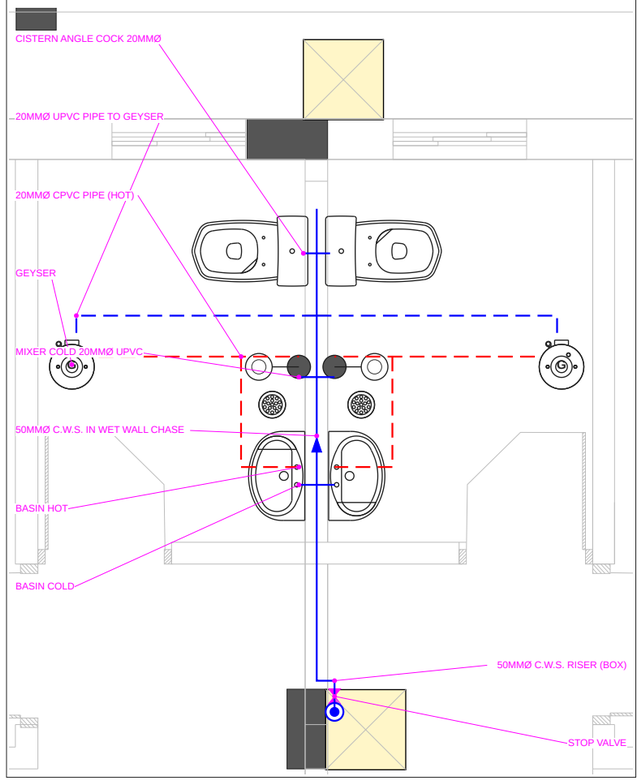
PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

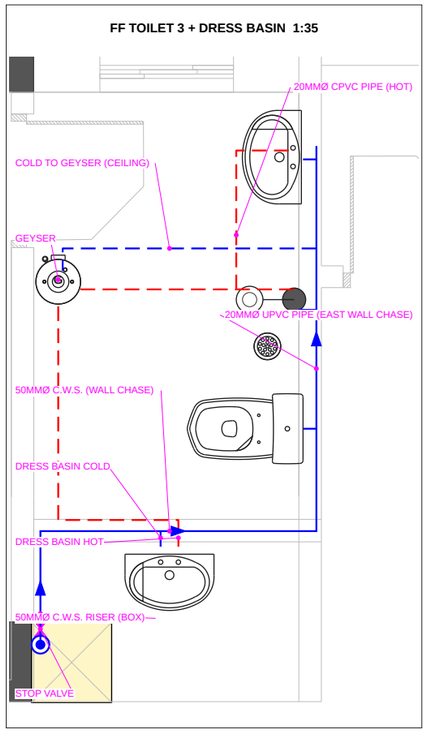
UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)

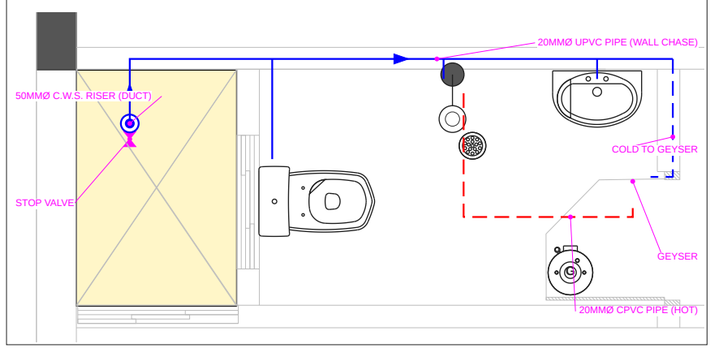
GF TOILETS 1 + 2 + BOXES A, B 1:35



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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0731-6803999

Client Name :

Project Type : Residential

Date : Oct 20, 2026

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)

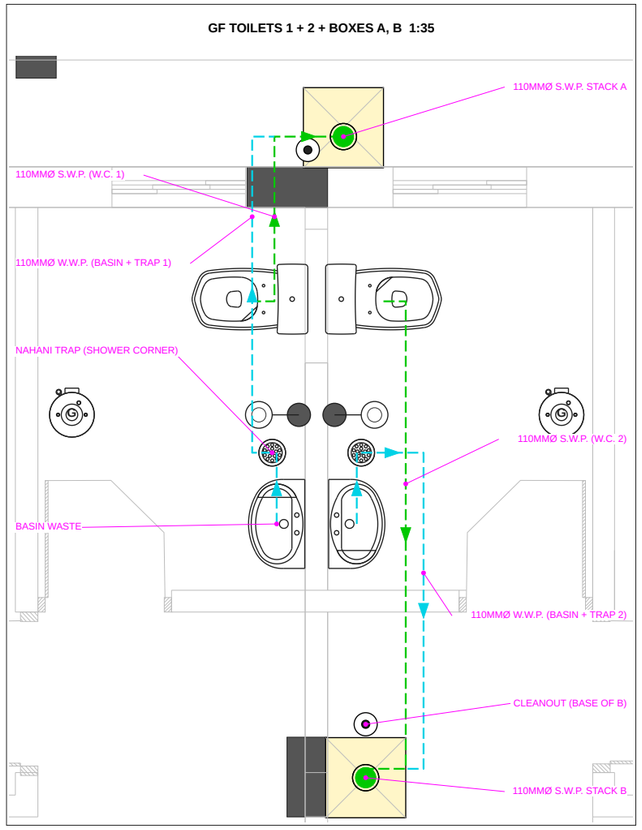
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

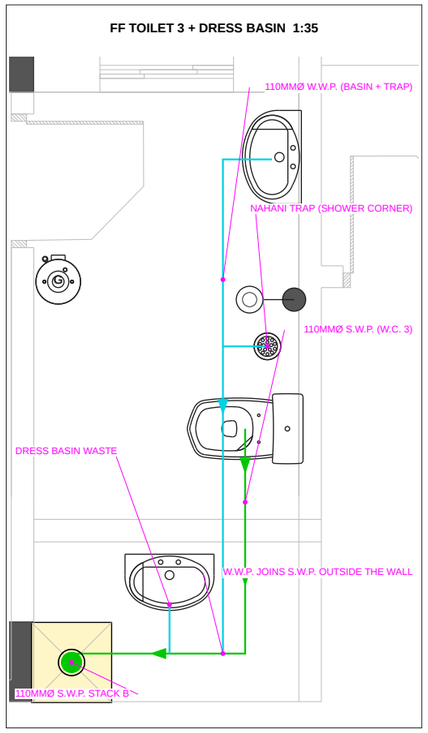
PREPARED: MEP / DRAINAGE CHECKED: -

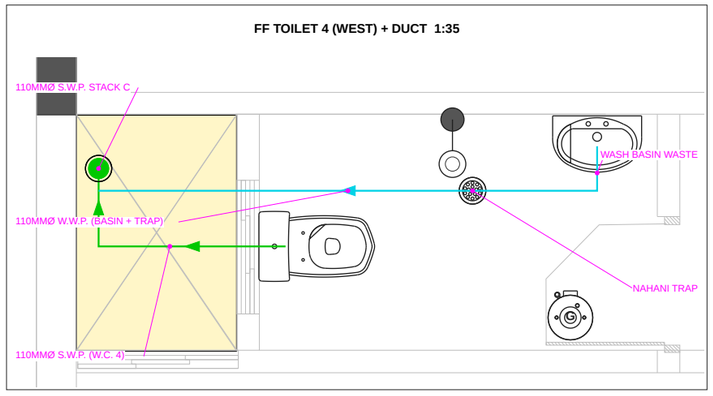
STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)







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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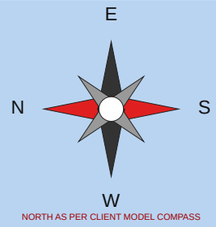
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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.



NORTH AS PER CLIENT MODEL COMPASS

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

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

PREPARED: MEP / DRAINAGE CHECKED: -

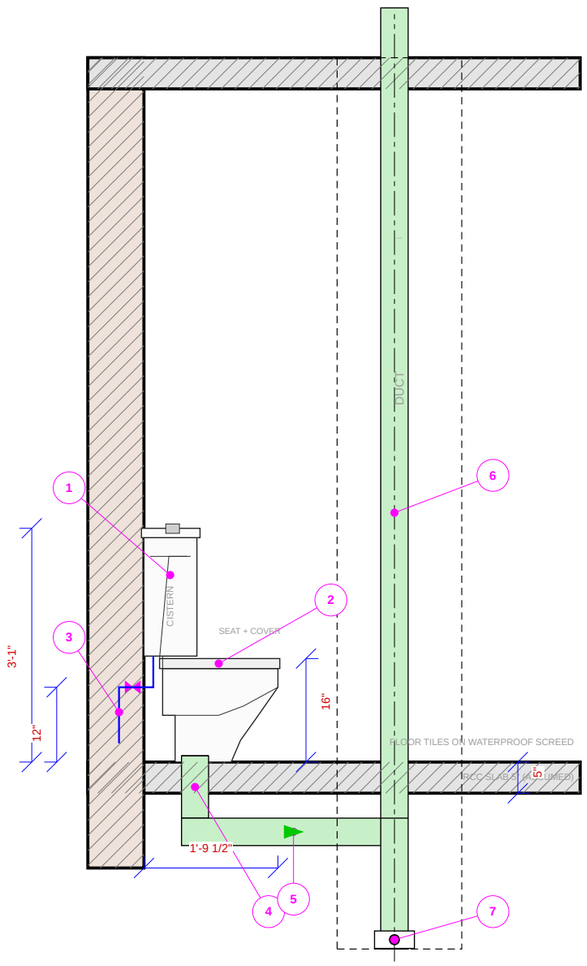
STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)

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)

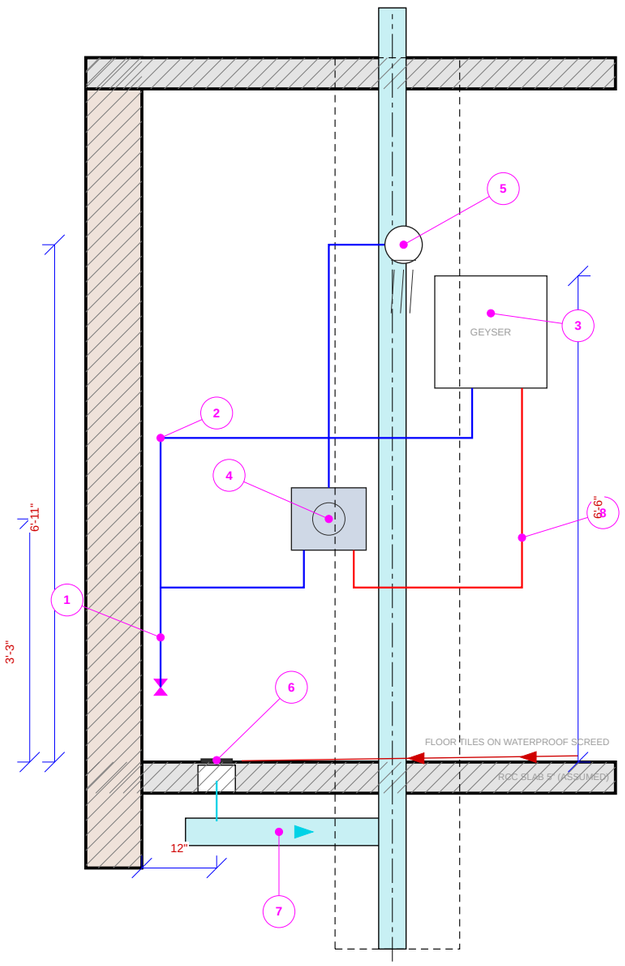
5 110MMØ S.W.P. BRANCH UNDER SLAB, 1/8" PER FOOT TO STACK

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

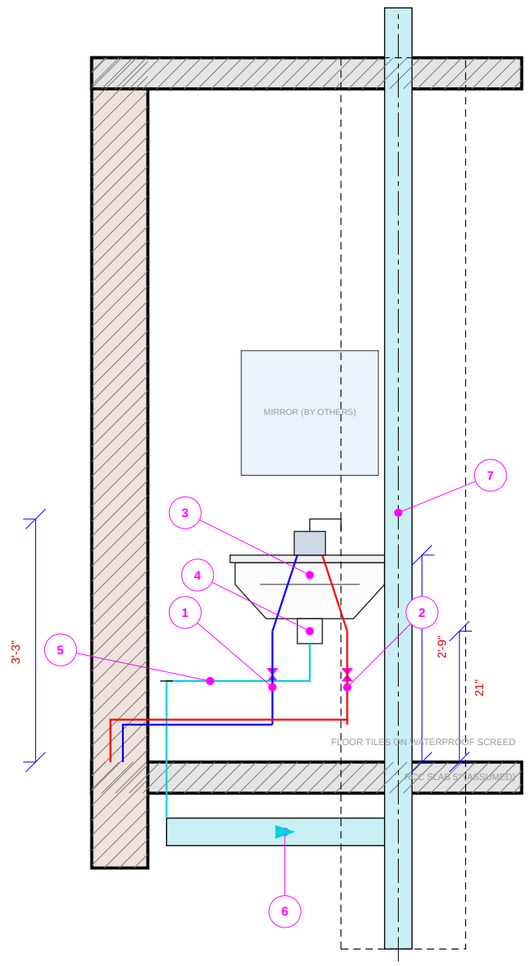
7 110MMØ W.W.P. BRANCH UNDER SLAB, 1/8" PER FOOT TO STACK

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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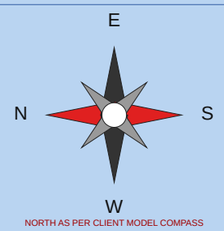
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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.



NORTH AS PER CLIENT MODEL COMPASS

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

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

PREPARED: MEP / DRAINAGE CHECKED: -

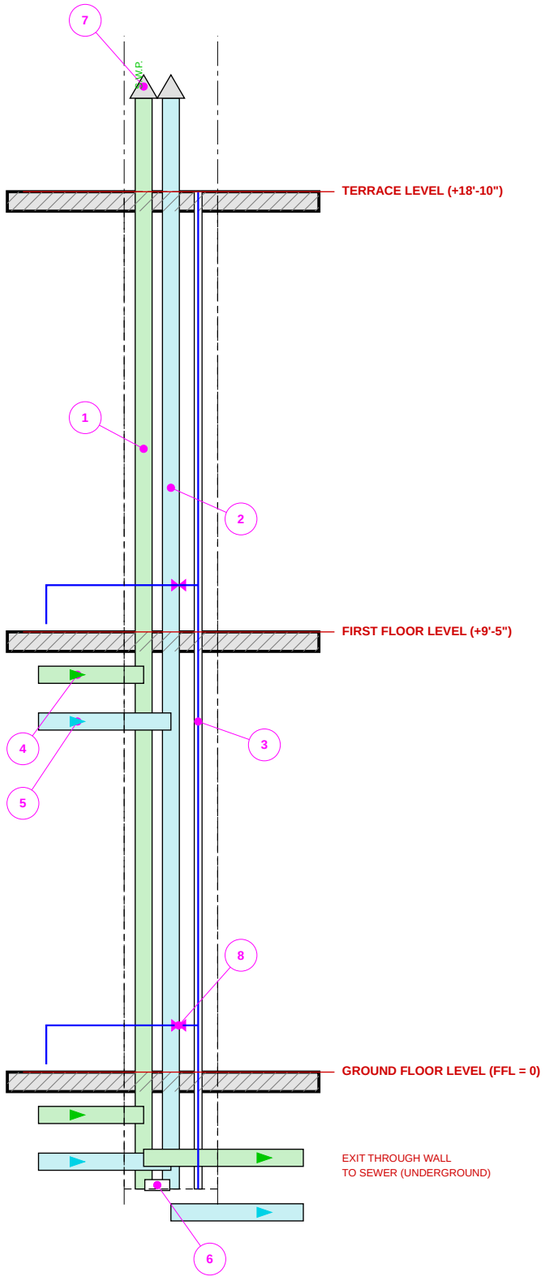
STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)

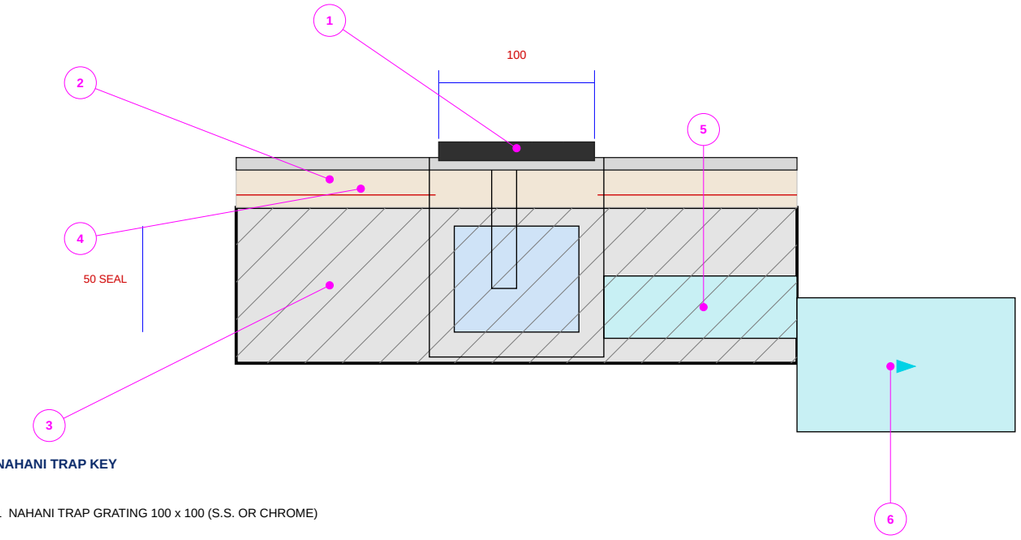
SECTION THROUGH DUCT (TYPICAL)

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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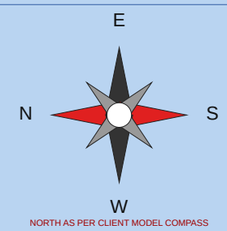
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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.



NORTH AS PER CLIENT MODEL COMPASS

DUCT STACK SECTION & NAHANI TRAP DETAIL

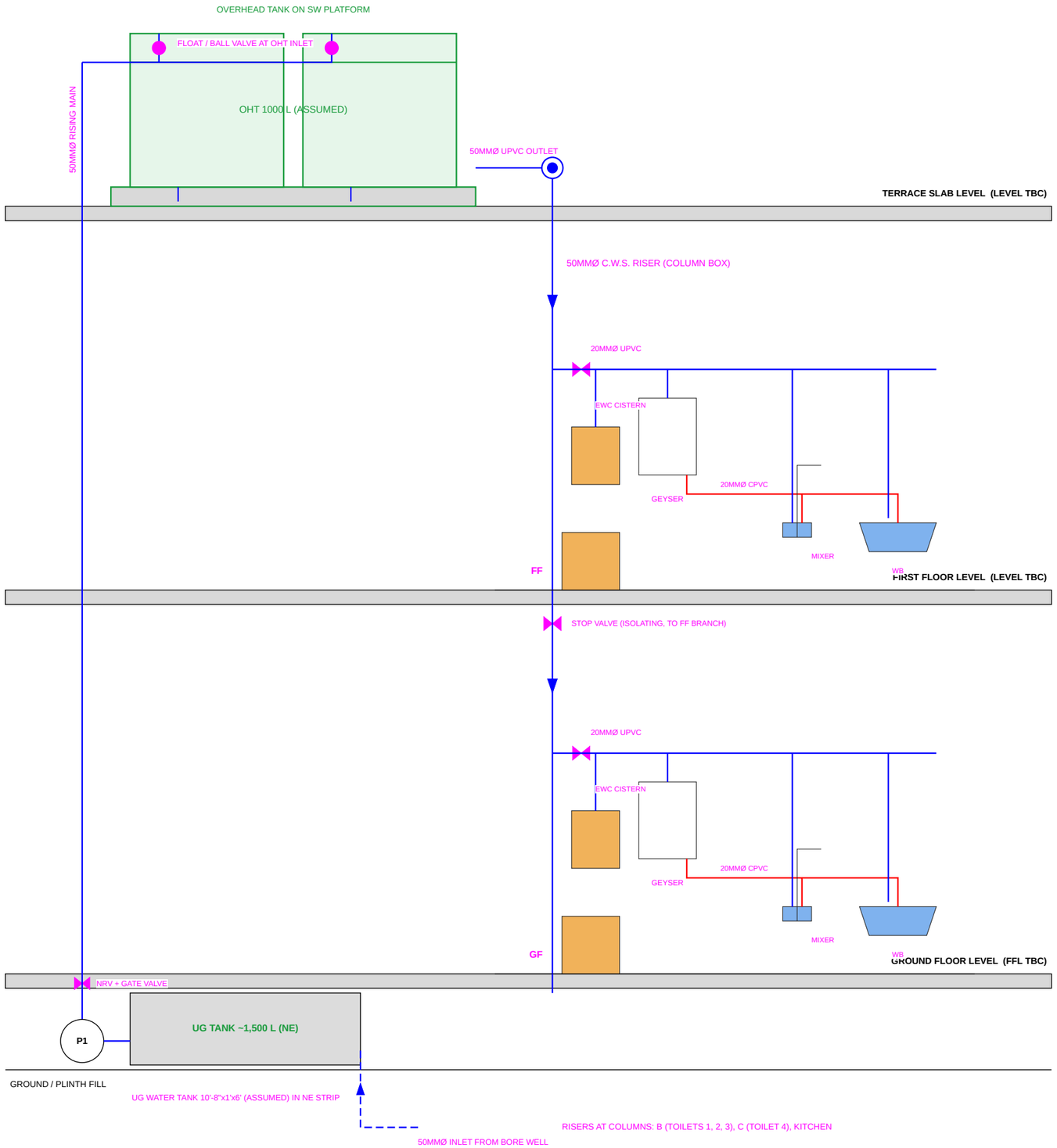
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)

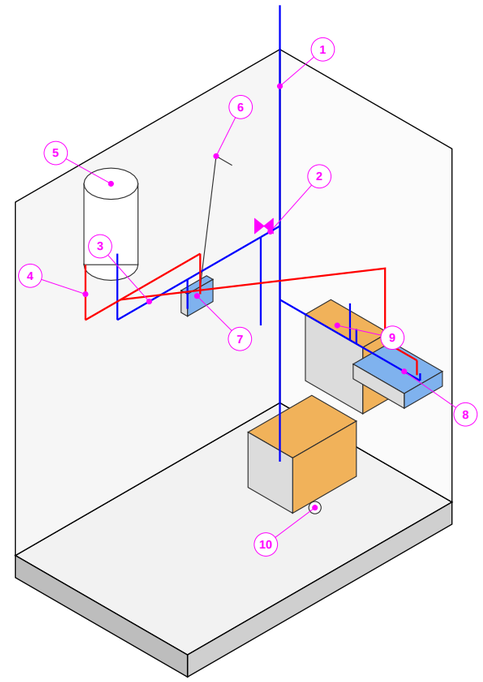


WATER SUPPLY RISER DIAGRAM

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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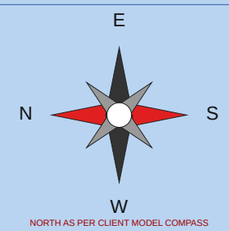
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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.



NORTH AS PER CLIENT MODEL COMPASS

WATER SUPPLY RISER DIAGRAM & ISOMETRIC

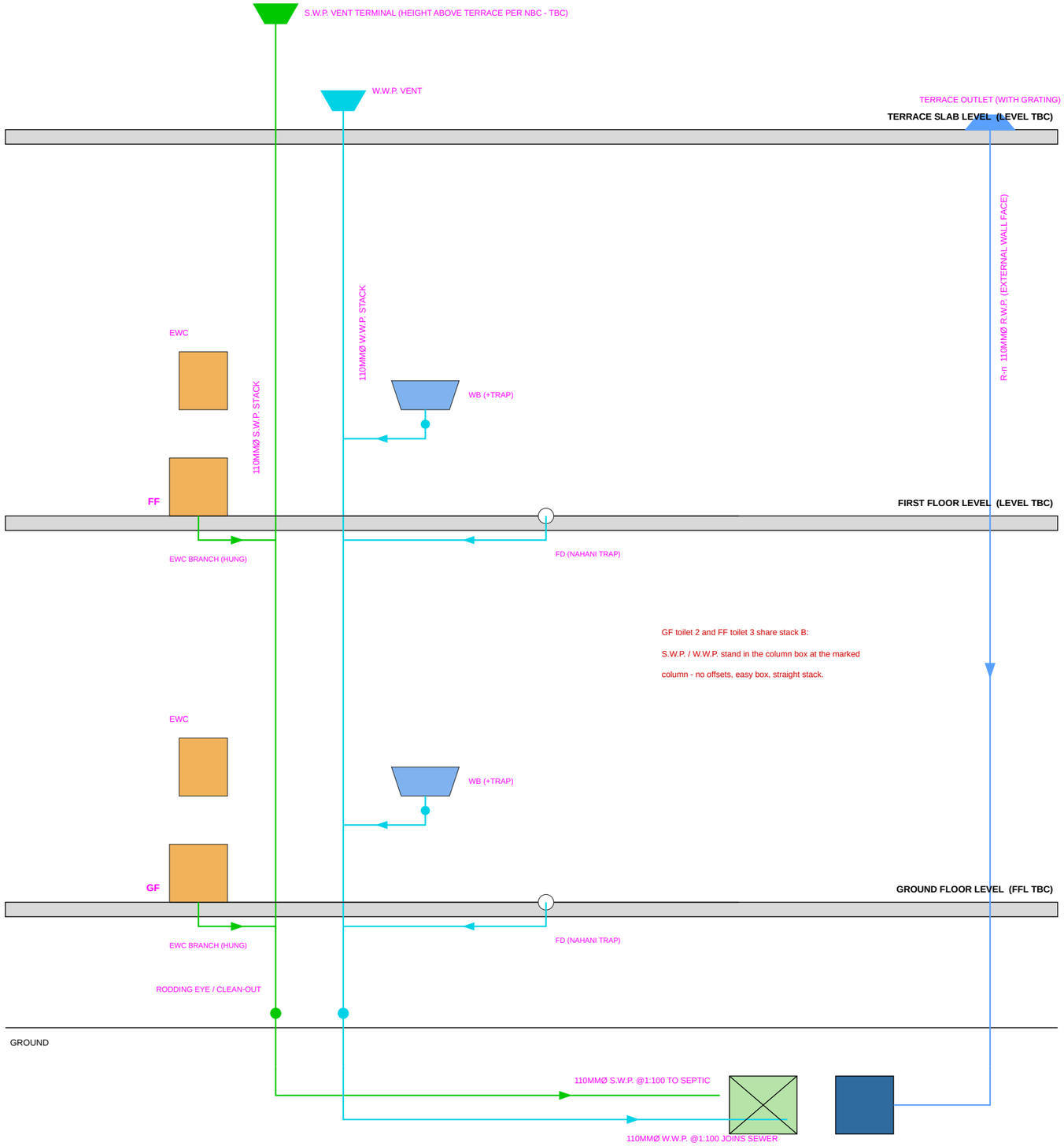
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)

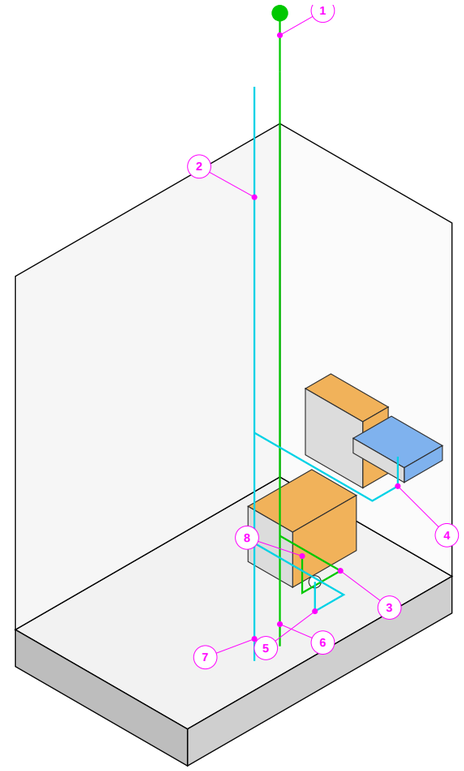


DRAINAGE RISER DIAGRAM

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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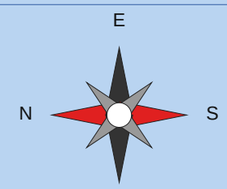
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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.



NORTH AS PER CLIENT MODEL COMPASS

SOIL / WASTE STACK, RAIN WATER RISER & DRAINAGE ISOMETRIC

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

PREPARED: MEP / DRAINAGE CHECKED: -

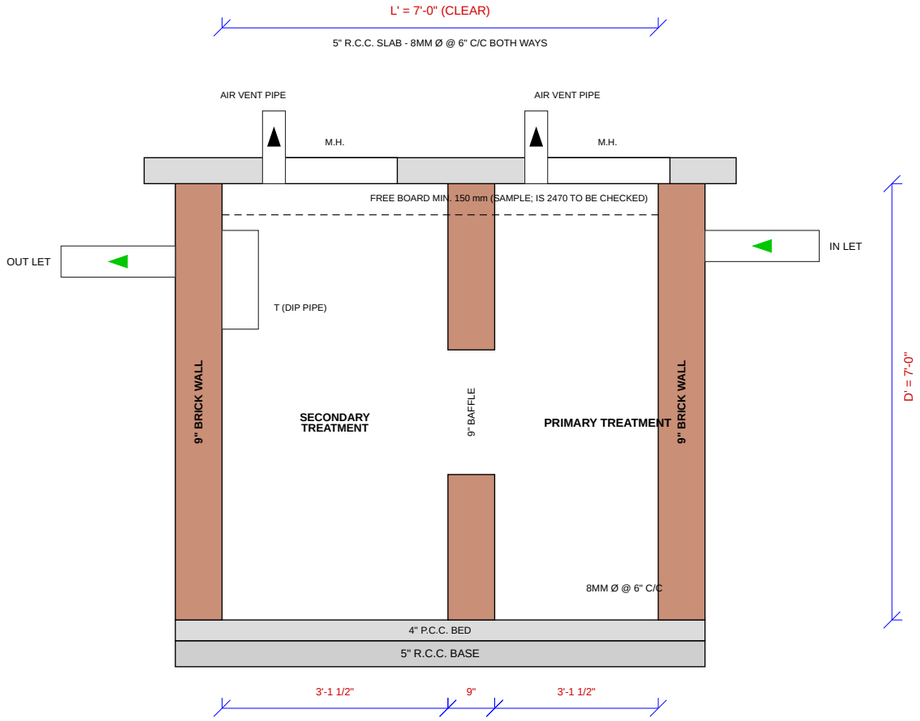
STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

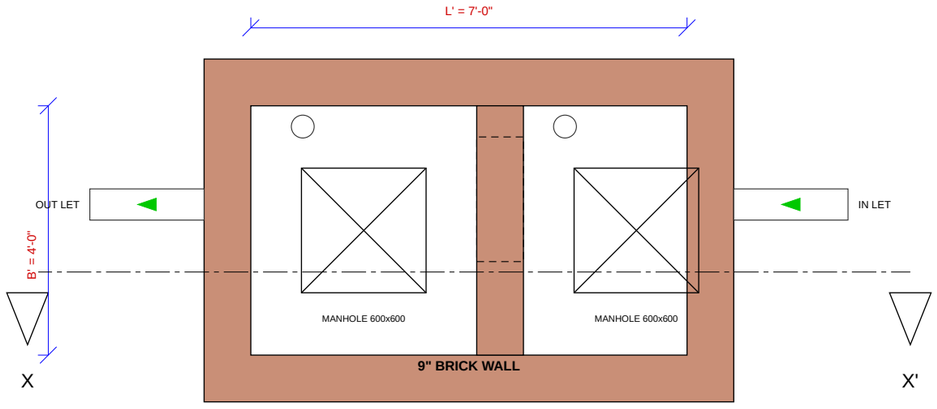
LINE WT: 0.30 mm (PIPES)

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

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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Client Name :

Project Type : Residential

Date : Oct 20, 2026

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SEPTIC TANK - TYPICAL PLAN & SECTION

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

PREPARED: MEP / DRAINAGE CHECKED: -

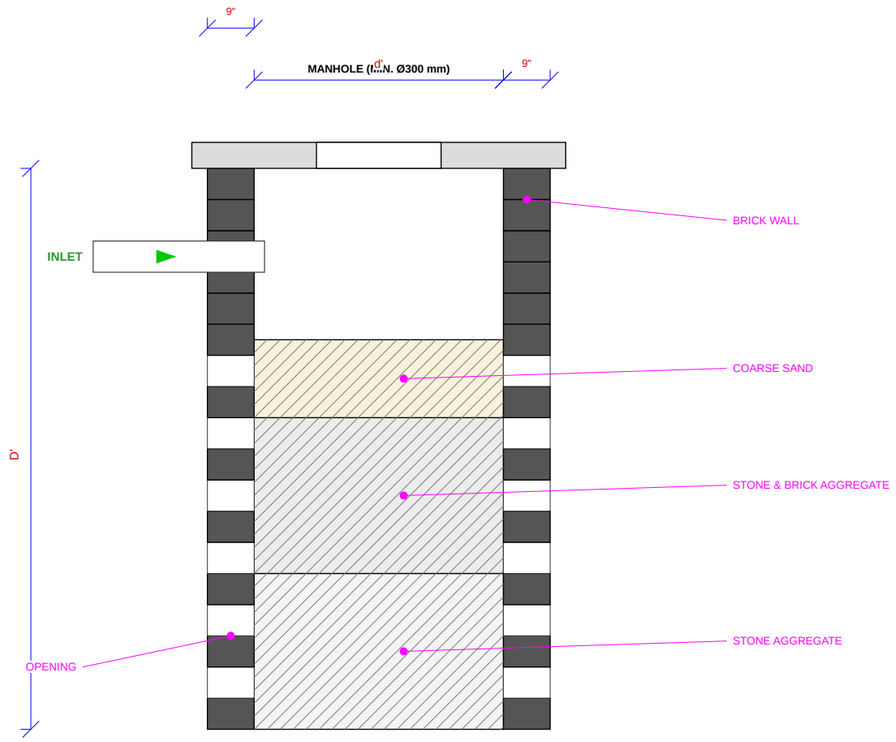
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UNITS: INCHES / FEET, PIPE DIA. IN mm

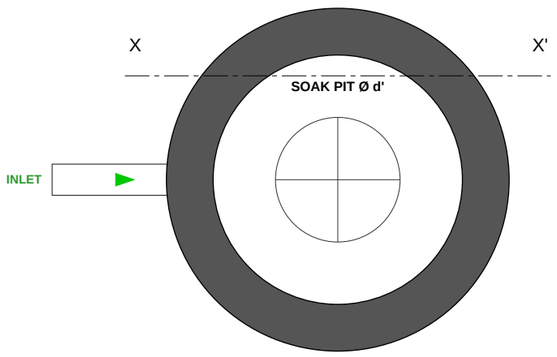
LINE WT: 0.30 mm (PIPES)

TYPICAL PLAN AND SECTION OF SOAK PIT

STANDBY SOAK PIT (OPTIONAL) SCALE 1:30

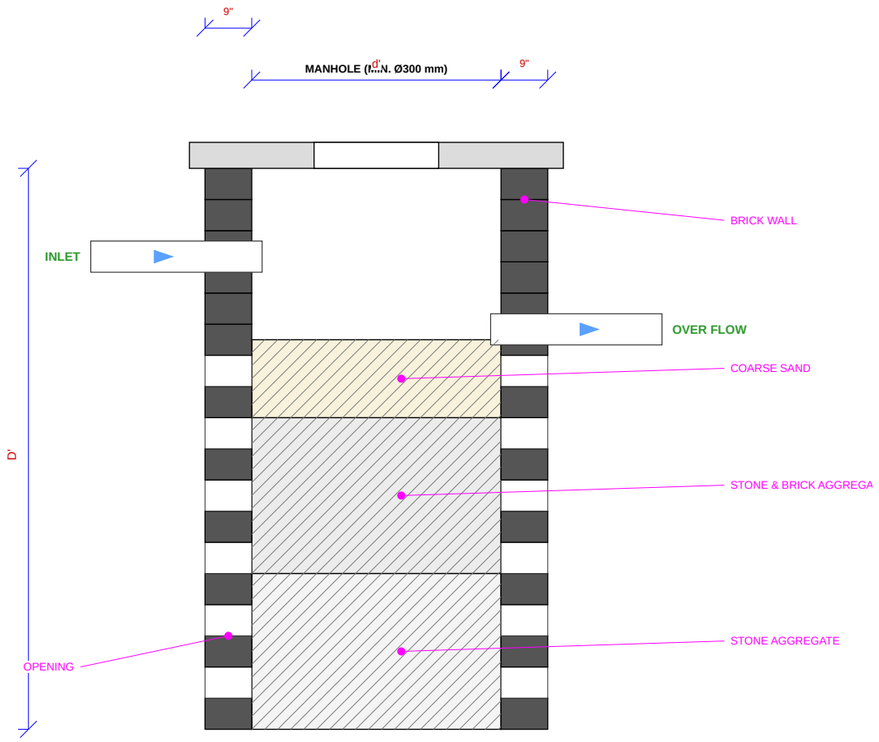


SECTION X-X'

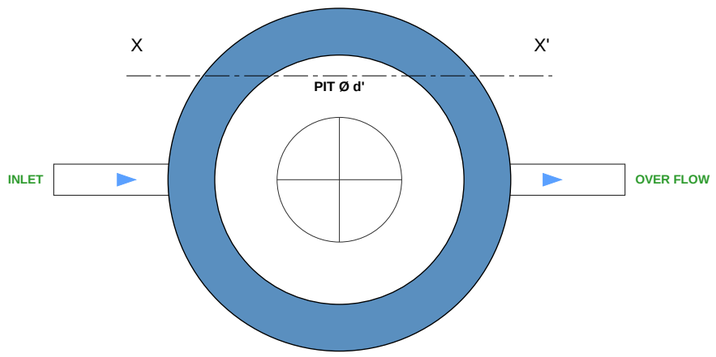


TYPICAL PLAN AND SECTION OF WATER HARVESTING PIT (PROPOSED)

HARVESTING PIT (PROPOSED) SCALE 1:30



SECTION X-X'



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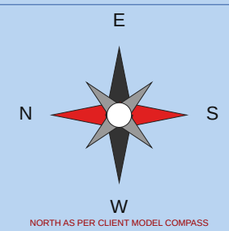
Client Name :

Project Type : Residential

Date : Oct 20, 2026

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

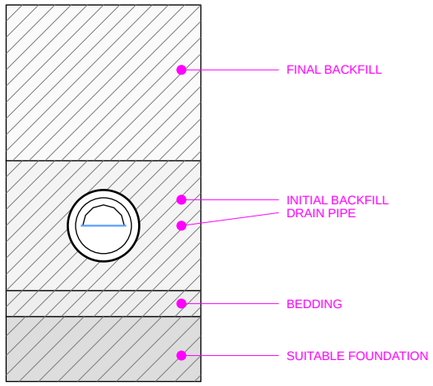
REV	DATE	DESCRIPTION
R1	20-10-2026	Final - client model PDF

PREPARED: MEP / DRAINAGE CHECKED: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

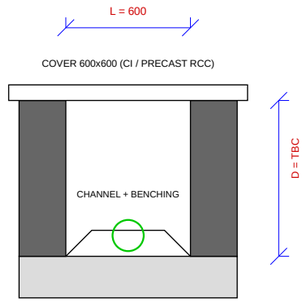
UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)

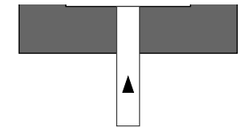


INSTALLATION OF GROUND DRAIN PIPE

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



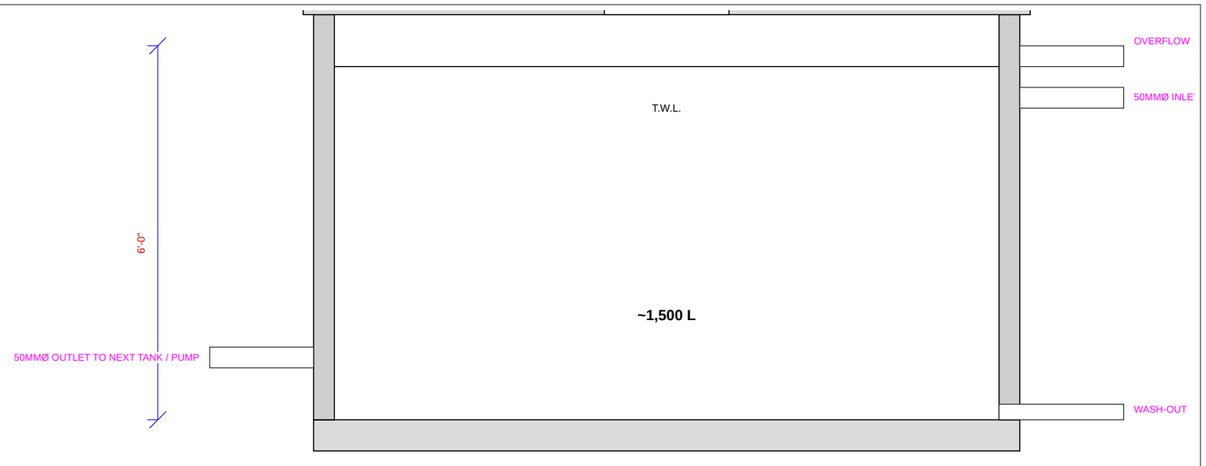
SECTION X-X'



PLAN OF INSPECTION CHAMBER

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.



SECTION OF UG WATER TANK (NE ZONE)

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

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Client Name :

Project Type : Residential

Date : Oct 20, 2026

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.

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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)

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

HousedesignIndia

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 :

Project Type : Residential

Date : Oct 20, 2026

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: -

STATUS: FOR REVIEW - NOT FOR CONSTRUCTION

UNITS: INCHES / FEET, PIPE DIA. IN mm

LINE WT: 0.30 mm (PIPES)