

GENERAL ABSTRACT

DETAILED PROJECT REPORT FOR THE CONSTRUCTION OF DOG KENNEL FOR " STATE TIGER STRIKE FORCE " AT M.P.

S.No.	PARTICULARS	AMOUNT (In Lakhs)	Pg. No.
1	Cost of Civil Work	6.41	
2	Cost of Electrification, Sanitary & water supply(@ 3 %)	0.19	
3	Cost of Civil + Electrical Works+plumbing Work Total Rs. (In Lakhs)	6.60	
	Total Cost	6.60	
	Eastimated cost RS.- Six Lacs Fourty Thousand Only	6.60	

BASED ON- MPPWD Building S.O.R. 01-01-2024

Eastimated cost = Rs. 6,60,000/-
Built up area = 35.41 Sq.M.
Unit Area Rate = 18638.80 Rs./Sq.M.

DETAILED PROJECT REPORT FOR THE CONSTRUCTION OF 01 DOG KENNEL FOR " STATE TIGER STRIKE FORCE " AT M.P.

GROUND FLOOR				AS PER PWD SOR JANUARY 2024			
S.No.	ITEM	ITEM NAME	PARTICULAR	Qty.	Unit	Rate	Amount
1	2.1	Surface dressing	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.	92.94	sq.m.	8.03	746.28
2	2.6	Excavation soil	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil mechanical	113.58	cu.m.	147	16696.81
3	4.1	C.C. upto plinth level	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.1.3	M-15	manual means over areas	1.15	cu.m.	4471	5119.84
	4.1.2.2	M-10	(exceeding 30cm in depth. 1.5m in	4.54	cu.m.	3808	17284.65
4		RCC upto plinth	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	M-20	M-20 Grade Concrete	6.89	cu.m.	6153	42380.13
5	5.16.6	Reinforcement	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3.Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
		TMT/TMX	Thermo-Mechanically Treated bars.				
			Qty @ 110 Kg/cum of RCC Qty of I.No. 5.1.1 (For	757.65	kg	80	60611.92

6	5.9.1	Centering and Shuttering	Centering and shuttering including strutting, propping etc. and removal of form for :				
		Upto plinth	Foundations, footings, bases of columns, etc. for mass concrete up to plinth level.	46.82	sq.m.	190.6	8923.59
7	2.26	Under floor filling stone dust	Supplying and filling in plinth with crusher stone dust/ coarse sand under floors including, watering, ramming consolidating in layers not exceeding 20cm in depth dressing complete. Note- Max. Thickness of this layer to be provided shall be 20 cm.	6.04	cu.m.	672	4060.08
8	2.27.1	Hard muram hard copra	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)	9.06	cu.m.	393	3561.64
9	2.32	Preconstruction antitermite treatment	Preventive antitermite treatment to the building under construction by providing Stage 1: Treating the bottom and the sides (upto 30 cm high of the excavated trench @ 5 litter per sqm of the surfece area.) Stage 2 : After masonry/RCC work, the backfill in the immdiate contact with the foundation structure treatment @ 7.5 litter per sam. of the vertical surface of the substructure for each side. Stage 3 : surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @ 5.0 litres/Sqm. Stage 4 : Pumping the emulsion in plinth masonry on filling side at floor junction @ 7.5 litres/Sqm. Stage 5 : Pumping the emulsion from outer side of the plinth below ground alround the masonry @ 5.0 litres/Sqm as per I.S. 8944 Emulsion. (1Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area)	35.41	sq.m.	136	4815.61
10		RCC in walls, columns, pillars etc	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:				
	5.2.1	M-20	M-20 Grade Concrete	1.79	cu.m.	6231	11149.51

11	5.3.1	RCC in beams, floors, staircases etc	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.				
		M-20	M-20 Grade Concrete	6.77	cu.m.	6541	44274.87
12	5.16.6	Reinforce ment	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3.Couplers shall be conforming to IS code on “Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification”)				
		TMT/TM X	Thermo-Mechanically Treated bars. (TMT/TMX) FE 500 or more conforming to IS 1786				
			Qty @ 110 Kg/cum of RCC Qty of I.No. 5.2.1 & 5.3.1 (For Estimate Purpose)	941.40	kg	80	75312.03
13		Brick work 25kg /cm2 chimney bricks in superstructure	Brick work with well burnt chimney bricks in bulls pattern trench kiln, crushing strength not less than 25kg /cm2 and water absorption not more than 20% in superstructure above plinth level and up to floor two level i/c curing etc complete.				
	6.4.2	CM 1:6	Cement mortar 1:6 (1 cement : 6 sand)	15.97	cu.m.	5255	83926.98
14	13.1	12 mm cement plaster	12 mm cement plaster of mix :				
	13.1.2		1:6 (1 cement: 6 sand)	207.40	sq.m.	160	33184.06
15	13.2.2	15 mm cement plaster	15 mm cement plaster on rough side of single or half brick wallof mix :				
			1:6 (1 cement: 6 sand)	77.44	sq.m.	168	13009.35
16	13.41	White cement based putty	Providing and applying white cement based putty of average thickness 1 mm, of approved brand over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete. Note : Putty shall be applied only on the internal walls, for application on the exterior walls prior permission of APD/Chief Engineer will be required.				

			Qty of Plaster	284.84	sq.m.	74	21077.93
17	13.49	Acrylic emulsion paint	Wall painting by any mechanical or manual means with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre. of approved brand and manufacture, including applying additional coats wherever required to achieve even shade.				
			Qty of Plaster	284.84	sq.m.	90	25635.32
18	5.24.1	Plaster drip course/ groove	Providing for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	42.00	Rm	18.5	777.00
			Preparation of grooves				
19	13.27	Mesh in plaster	Providing and fixing mesh in vertical and horizontal junction of RCC and brick/AAC work including scaffolding and all lead and lift etc. complete				
	13.27.1		G.I. chicken mesh as per ISI specification and in the required width with 50mm long Bombay nails before plastering upto 10 meter height.	16.56	sq.m.	62	1026.72
20	9.1.2	Wood work in frames of doors	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia and length (hold fast lugs or dash fastener shall be paid for separately).				
			Sal wood	0.13	cu.m.	71309	9522.36
21		Flush door shutters non-decorative type 1st class hard wood and well matched teak 3 ply	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters of such as duro board, century or equivalent make.				
	9.19.1		35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	5.21	sq.m.	1870	9733.79
22		Aluminium work for doors, windows, ventilators & partitions	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1.2	Powder coated	Powder coated aluminium (minimum thickness of	47.96	Kg	416	19952.41

23	21.1.2	Openable	For shutters of doors, windows and ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
	21.1.2.2	Powder coated	Powder coated aluminium (minimum thickness of powder coating 50 micron)	31.98	Kg	484	15475.91
24		Glazing in aluminium door, window, ventilator shutters and partitions	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) :				
	21.3.1	4.0 mm	With float glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)	7.99	sq.m.	774	6187.17
25	9.43.1	M.S. grills and windows	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	119.91	Kg	91	10911.47
26	10.25	Stainless steel	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (For payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	78.08	Kg	582	45441.70
27	10.26	Fly proof wire gauze to windows, doors	Providing and fixing fly proof wire gauze to windows, clerestory windows and doors with M.S. Flat 15x3mm and nuts and bolts complete.				
	10.26.2	S.S.	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides.	5.21	sq.m.	1334	6943.78
28	5.9.20	Centering and Shuttering	Centering and shuttering including strutting, propping etc. and removal of form for :				
		Suspende d floors with ply	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12mm thick. (item to be executed with prior permission of S.E. in case of B & R works and from Additional Project Director in case of PIU works)	30.21	sq.m.	575.35	17380.72
29	5.9.21	Lintels, beams, columns etc with ply	Lintels, beams, columns, girders, bressumers and cantilevers with water proof ply 12mm thick (item to be executed with prior permission of S.E. in case of B & R works and from Additional Project Director in case of PIU works)	8.17	sq.m.	521.2	4257.79

30	10.17	M.S. box for ceiling fan	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 16mm dia M.S. bar bent to shape as per standard drawing				
			fan box	4.00	Each	148	592.00
31	11.36	Kota stone flooring	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and mirror polishing complete with base of cement mortar 1 : 4 (1 cement : 4 sand) having thickness of slab 25 mm (Area of slab to be over 0.25 sqm) Note: - Deduction shall be made for not mirror polishing according to item no 11.43	11.90	sq.m.	1174	13967.88
32	12.21	Painting top of roofs with Two coats high albedo paint	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance and thermal emittance tested as per ASTM C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall be strictly as per manufacturer's specifications and as approved by engineer In charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., and washing with water all complete. The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer-in-charge.				
			White in colour	30.21	sq.m.	239	7219.94
						TOTAL	641161.24

DETAILED QUANTITY OF MATERIAL FOR CONSTRUCTION OF 01 DOG KENNEL FOR " STATE TIGER STRIKE FORCE " AT M.P.

GROUND FLOOR									
S.No.	ITEM	ITEM NAME	PARTICULAR	No.	L	B	D	Qty.	Unit
1	2.1	Surface dressing	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.						
			LUM SUM	1				92.94	sq.m.
2	2.6	Excavation soil	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil						
			Excavation For footing Type1	12	1.00	1.00	1.20	14.40	cu.m.
			L/W	2	8.00	0.20	0.30	0.96	cu.m.
			L/W	4	3.05	0.20	0.30	0.73	cu.m.
			S/W	3	2.44	0.20	0.30	0.44	cu.m.
			TICK DRAIN	1	30.49	0.45	0.30	4.12	cu.m.
			GROUND DEVELOPMENT	1				92.94	cu.m.
								113.58	cu.m.
3	4.1	C.C. upto plinth level	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
	4.1.1.3	M-15	M 15 – Grade concrete						
			Window Sill						
			JALI	2	2.13	0.23	0.08	0.08	cu.m.
			W	2	0.76	0.23	0.08	0.03	cu.m.
			W1	1	1.22	0.23	0.08	0.02	cu.m.
			W2	1	1.22	0.23	0.08	0.02	cu.m.
			V	4	0.46	0.23	0.08	0.03	cu.m.
	4.1.2.1	M-15	M-15 - Grade concrete						
			Footing Base For C1	12	1.00	1.00	0.08	0.96	cu.m.
								1.15	cu.m.
	4.1.2.2	M-10	Nominal Mix -1 Cement : 3 sand : 6 graded stone aggregate (M 10)						
			PLATFORM	1	3.35	0.91	0.1	0.31	cu.m.
			COURTYARD	1	2.44	2.44	0.1	0.59	cu.m.
			ROOM	1	2.44	2.44	0.1	0.59	cu.m.
			WASH AREA	1	2.44	2.44	0.1	0.59	cu.m.
			STORE/PANTRY ROOM	1	3.05	3.05	0.1	0.93	cu.m.
			L/W	2	8.00	0.23	0.1	0.37	cu.m.
			L/W	4	3.05	0.23	0.1	0.28	cu.m.
			S/W	3	2.44	0.23	0.1	0.17	cu.m.
			TICK DRAIN	1	30.49	0.23	0.1	0.70	cu.m.
								4.54	cu.m.

4		RCC upto plinth	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :						
	5.1.1	M-20	M-20 Grade Concrete						
			FOOTNIG	12	0.90	0.90	0.45	4.37	cu.m.
			Col. Up to PB Botom	12	0.23	0.23	1	0.63	cu.m.
			L/W	2	8.00	0.23	0.23	0.85	cu.m.
			L/W	4	3.05	0.23	0.23	0.65	cu.m.
			S/W	3	2.44	0.23	0.23	0.39	cu.m.
								6.89	cu.m.
5	5.16.6	Reinforcement	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3.Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")						
		TMT/TMX	Thermo-Mechanically Treated bars. (TMT/TMX) FE 500 or more conforming to IS 1786						
			Qty @ 110 Kg/cum of RCC Qty of I.No. 5.1.1 (For Estimate Purpose)					757.65	kg
6	5.9.1	Centering and Shuttering	Centering and shuttering including strutting, propping etc. and removal of form for :						
		Upto plinth	Foundations, footings, bases of columns, etc. for mass concrete up to plinth level.						
			Footing	12	3.60		0.45	19.44	sq.m.
			Col. Up to PB Botom	12	0.92		1	11.04	sq.m.
			L/W	2	16.01		0.23	7.36	sq.m.
			L/W	4	6.10		0.23	5.61	sq.m.
			S/W	3	4.88		0.23	3.37	sq.m.
								46.82	sq.m.
7	2.27	Under floor filling stone dust	Supplying and filling in plinth with crusher stone dust/ coarse sand under floors including, watering, ramming consolidating in layers not exceeding 20cm in depth dressing complete. Note- Max. Thickness of this layer to be provided shall be 20 cm.						
			PLATFORM	1	3.35	0.91	0.2	0.61	cu.m.
			COURTYARD	1	2.44	2.44	0.2	1.19	cu.m.
			ROOM	1	2.44	2.44	0.2	1.19	cu.m.

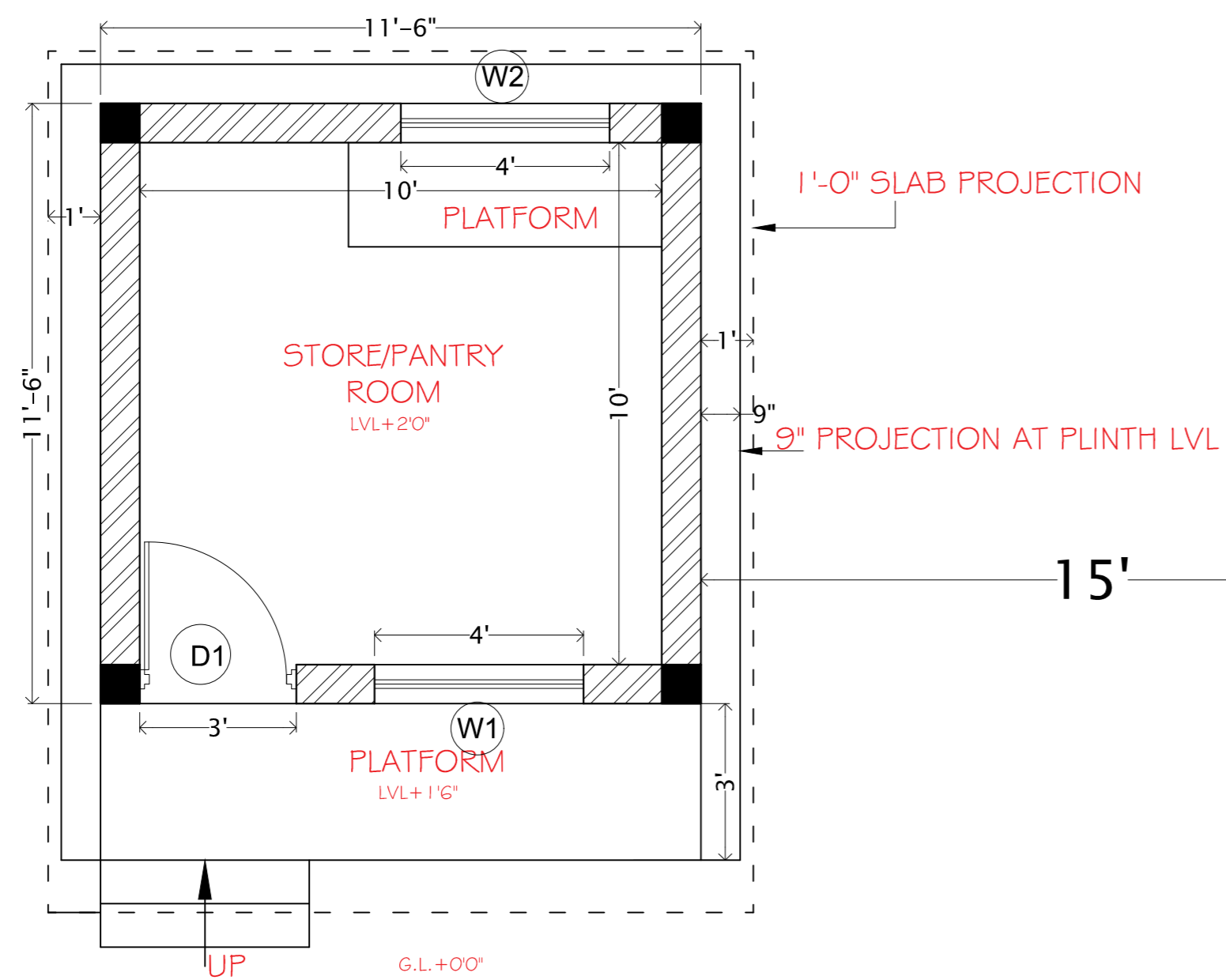
			WASH AREA	1	2.44	2.44	0.2	1.19	cu.m.
			STORE/PANTRY ROOM	1	3.05	3.05	0.2	1.86	cu.m.
								6.04	cu.m.
8	2.27.1	Hard muram hard copra	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)						
			PLATFORM	1	3.35	0.91	0.3	0.92	cu.m.
			COURTYARD	1	2.44	2.44	0.3	1.78	cu.m.
			ROOM	1	2.44	2.44	0.3	1.78	cu.m.
			WASH AREA	1	2.44	2.44	0.3	1.78	cu.m.
			STORE/PANTRY ROOM	1	3.05	3.05	0.3	2.79	cu.m.
								9.06	cu.m.
9	2.32	Preconstruct ion antitermite treatment	Preventive antitermite treatment to the building under construction by providing Stage 1: Treating the bottom and the sides (upto 30 cm hight of the excavated trench @ 5 litter per sqm of the surfece area.) Stage 2 : After masonry/RCC work, the backfill in the immddiate contact with the foundation structure treatment @ 7.5 litter per sam. of the vertical surface of the substructure for each side. Stage 3 : surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @ 5.0 litres/Sqm. Stage 4 : Pumping the emulsion in plinth masonry on filling side at floor junction @ 7.5 litres/Sqm. Stage 5 : Pumping the emulsion from outer side of the plinth below ground around the masonry @ 5.0 litres/Sqm as per I.S. 8944 Emulsion. (1Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area)						
			Plinth area	1				35.41	sq.m.
10		RCC in walls, columns, pillars etc	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:						
	5.2.1	M-20	M-20 Grade Concrete Col. Up to slab bottom	12	0.23	0.23	2.82	1.79	cu.m.
11	5.3.1	RCC in beams, floors, staircases etc	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.						

		M-20	M-20 Grade Concrete							
			SLAB							
			PLATFORM	1	3.35	0.91	0.11	0.34	cu.m.	
			COURTYARD	1	2.44	2.44	0.11	0.65	cu.m.	
			ROOM	1	2.44	2.44	0.11	0.65	cu.m.	
			WASH AREA	1	2.44	2.44	0.11	0.65	cu.m.	
			STORE/PANTRY ROOM	1	3.05	3.05	0.11	1.02	cu.m.	
			SLAB PROJECTION					0.75	cu.m.	
			BEAM							
			L/W	2	8.00	0.23	0.33	1.21	cu.m.	
			L/W	4	3.05	0.23	0.33	0.93	cu.m.	
			S/W	3	2.44	0.23	0.33	0.56	cu.m.	
								6.77	cu.m.	
12	5.16.6	Reinforce ment	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3.Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")							
		TMT/TM X	Thermo-Mechanically Treated bars. (TMT/TMX) FE 500 or more conforming to IS 1786							
			Qty @ 110 Kg/cum of RCC Qty of I.No. 5.2.1 & 5.3.1 (For Estimate Purpose)					941.40	kg	
13		Brick work 25kg /cm2 chimney bricks in superstructure	Brick work with well burnt chimney bricks in bulls pattern trench kiln, crushing strength not less than 25kg /cm2 and water absorption not more than 20% in superstructure above plinth level and up to floor two level i/c curing etc complete.							
	6.4.2	CM 1:6	Cement mortar 1:6 (1 cement : 6 sand)							
			L/W	2	8.00	2.57	0.23	9.46	cu.m.	
			L/W	4	3.05	2.57	0.23	7.21	cu.m.	
			S/W	3	2.44	2.57	0.23	4.33	cu.m.	
			TICK DRAIN	1	30.49	0.23	0.23	1.60	cu.m.	
								22.60	cu.m.	
			DEDUCTION							
			D/W	1	2.13	0.23	0.91	0.45	cu.m.	
			D/W JALI	1	1.52	0.23	2.13	0.75	cu.m.	
			D	2	2.13	0.23	0.76	0.75	cu.m.	
			D1	1	2.13	0.23	0.91	0.45	cu.m.	
			JALI	2	2.13	0.23	2.44	2.39	cu.m.	
			W	2	0.76	0.23	1.22	0.43	cu.m.	
			W1	1	1.22	0.23	1.22	0.34	cu.m.	

			W2	1	1.22	0.23	1.07	0.30	cu.m.
			V	4	0.46	0.23	1.83	0.77	cu.m.
								6.63	cu.m.
							TOTAL	15.97	cu.m.
14	13.1	12 mm cement plaster	12 mm cement plaster of mix :						
	13.1.2		1:6 (1 cement: 6 sand)						
			L/W	2	16.01	2.90		92.84	sq.m.
			L/W	4	6.10	2.90		70.73	sq.m.
			S/W	3	4.88	2.90		42.44	sq.m.
			SLAB						
			PLATFORM	1	3.35	0.91		3.07	sq.m.
			COURTYARD	1	2.44	2.44		5.95	sq.m.
			ROOM	1	2.44	2.44		5.95	sq.m.
			WASH AREA	1	2.44	2.44		5.95	sq.m.
			STORE/PANTRY ROOM	1	3.05	3.05		9.30	sq.m.
								236.22	sq.m.
			DEDUCTION						
			D/W	1	2.13		0.91	1.95	sq.m.
			D/W JALI	1	1.52		2.13	3.25	sq.m.
			D	2	2.13		0.76	3.25	sq.m.
			D1	1	2.13		0.91	1.95	sq.m.
			JALI	2	2.13		2.44	10.41	sq.m.
			W	2	0.76		1.22	1.86	sq.m.
			W1	1	1.22		1.22	1.49	sq.m.
			W2	1	1.22		1.07	1.30	sq.m.
			V	4	0.46		1.83	3.35	sq.m.
								28.81	sq.m.
			TOTAL					207.40	sq.m.
15	13.2.2	15 mm cement plaster	15 mm cement plaster on rough side of single or half brick wall of mix :						
			1:6 (1 cement: 6 sand)						
			PARAPET WALL	2	94.00	0.30		56.40	sq.m.
			TICK DRAIN	1	30.49	0.69		21.04	sq.m.
								77.44	sq.m.
16	13.41	White cement based putty	Providing and applying white cement based putty of average thickness 1 mm, of approved brand over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete. Note : Putty shall be applied only on the internal walls, for application on the exterior walls prior permission of APD/Chief Engineer will be required.						
			Qty of Plaster					284.84	sq.m.
17	13.49	Acrylic emulsion paint	Wall painting by any mechanical or manual means with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre. of approved brand and manufacture, including applying additional coats wherever required to achieve even shade.						
			Qty of Plaster					284.84	sq.m.
18	5.24.1	Plaster drip course/ groove	Providing for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.						
			Preparation of grooves	1	42.00			42.00	Rm
19	13.27	Mesh in plaster	Providing and fixing mesh in vertical						

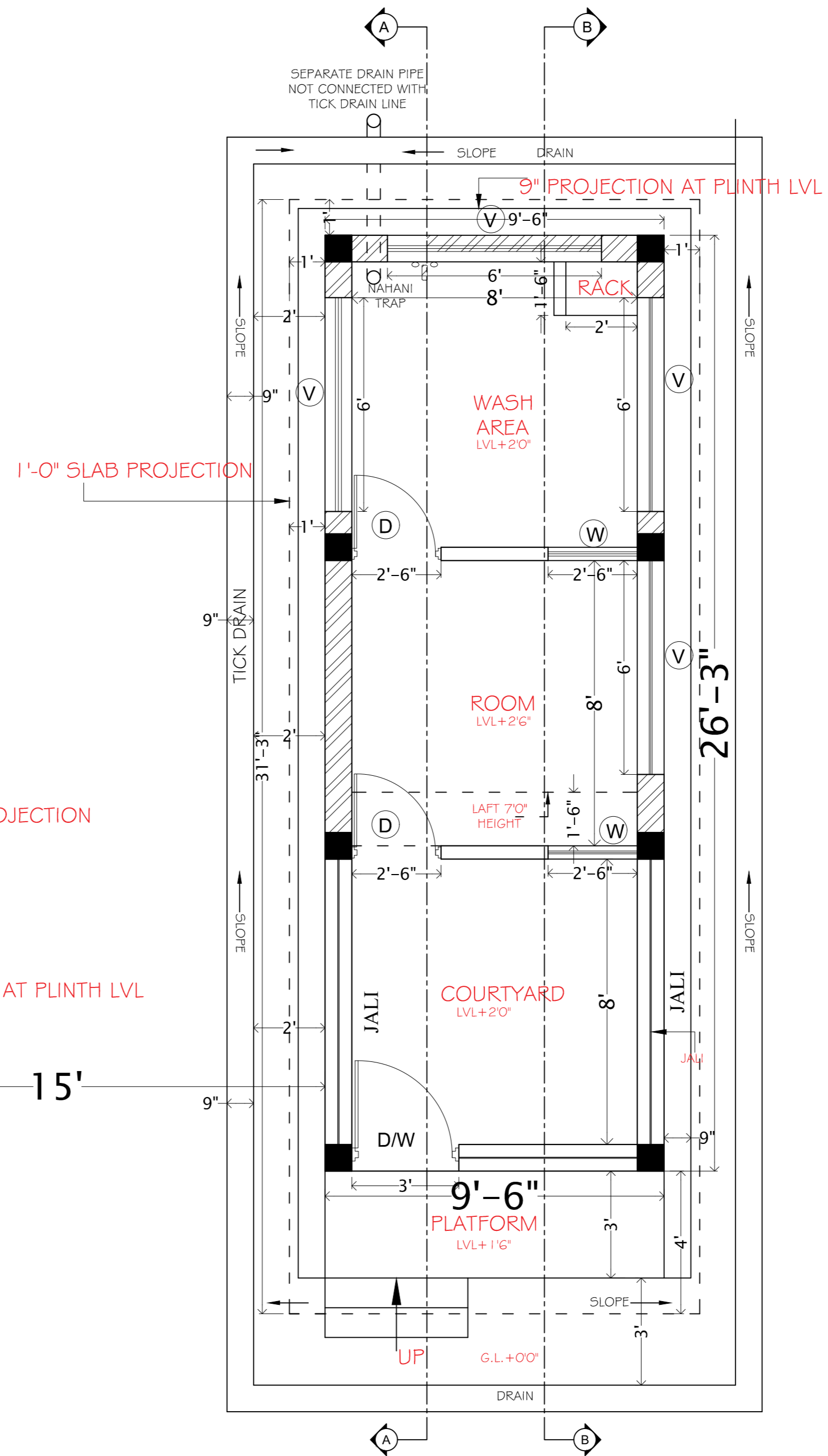
			and horizontal junction of RCC and brick/AAC work including scaffolding and all lead and lift etc. complete						
	13.27.1		G.I. chicken mesh as per ISI specification and in the required width with 50mm long Bombay nails before plastering upt 10 meter height.	24	3.00	0.23		16.56	sq.m.
20		Wood work in frames of doors	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia and length (hold fast lugs or dash fastener shall be paid for separately).						
	9.1.2		Sal wood						
			D	2	10.06	0.1	0.06	0.12	cu.m.
			D1	1	2.13	0.1	0.06	0.01	cu.m.
								0.13	cu.m.
21		Flush door shutters non-decorative type 1st class hard wood and well matched teak 3 ply	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.						
	9.19.1		35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.						
			D	2	2.13		0.76	3.25	sq.m.
			D1	1	2.13		0.91	1.95	sq.m.
								5.21	sq.m.
22		Aluminium work for doors, windows, ventilators & partitions	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :						
	21.1.1.2	Powder coated	Powder coated aluminium (minimum thickness of powder coating 50 micron)						
			W	2	0.76		1.22	1.86	sq.m.
			W1	1	1.22		1.22	1.49	sq.m.
			W2	1	1.22		1.07	1.30	sq.m.
			V	4	0.46		1.83	3.35	sq.m.
								7.99	sq.m.
			Estimate Purpose @ 6 Kg/sqm					47.96	Kg

28		Centering and Shuttering	Centering and shuttering including strutting, propping etc. and removal of form for :						
		Suspende d floors with ply	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12mm thick. (item to be executed with prior permission of S.E. in case of B & R works and from Additional Project Director in case of PIU works)						
	5.9.20		PLATFORM	1	3.35	0.91		3.07	sq.m.
			COURTYARD	1	2.44	2.44		5.95	sq.m.
			ROOM	1	2.44	2.44		5.95	sq.m.
			WASH AREA	1	2.44	2.44		5.95	sq.m.
			STORE/PANTRY ROOM	1	3.05	3.05		9.30	sq.m.
								30.21	sq.m.
29	5.9.21	Lintels, beams, columns etc with ply	Lintels, beams, columns, girders, bressumers and cantilevers with water proof ply 12mm thick (item to be executed with prior permission of S.E. in case of B & R works and from Additional Project Director in case of PIU works)						
			L/W	2	8.00	0.23		3.68	sq.m.
			L/W	4	3.05	0.23		2.80	sq.m.
			S/W	3	2.44	0.23		1.68	sq.m.
								8.17	sq.m.
30	10.17	M.S. box for ceiling fan	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 16mm dia M.S. bar bent to shape as per standard drawing						
			fan box	4				4.00	Each
31	11.36	Kota stone flooring	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and mirror polishing complete with base of cement mortar 1 : 4 (1 cement : 4 sand) having thickness of slab 25 mm (Area of slab to be over 0.25 sqm) Note: - Deduction shall be made for not mirror polishing according to item no 11.43						
			COURTYARD	1	2.44	2.44		5.95	sq.m.
			ROOM	1	2.44	2.44		5.95	sq.m.
								11.90	sq.m.
32	12.21	Painting top of roofs with							



STORE/PANTRY FLOOR PLAN

PLINTH AREA = 132.25 SQFT OR 12.3 SQ.M.



DOG KENNEL FLOOR PLAN

PLINTH AREA = 249.38 SQFT OR 23.17 SQ.M.

DETAILS OF DOG KENNEL

NOTES

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NO.	DATE	DESCRIPTION

OWNER :-

" STATE TIGER STRIKE FORCE "

PROJECT :- DOG KENNEL

DRAWING :-

JOB NO.

SCALE

DATE

PROJECT INCHARGE

CHECKED BY

AR. RAJESH CHADAR

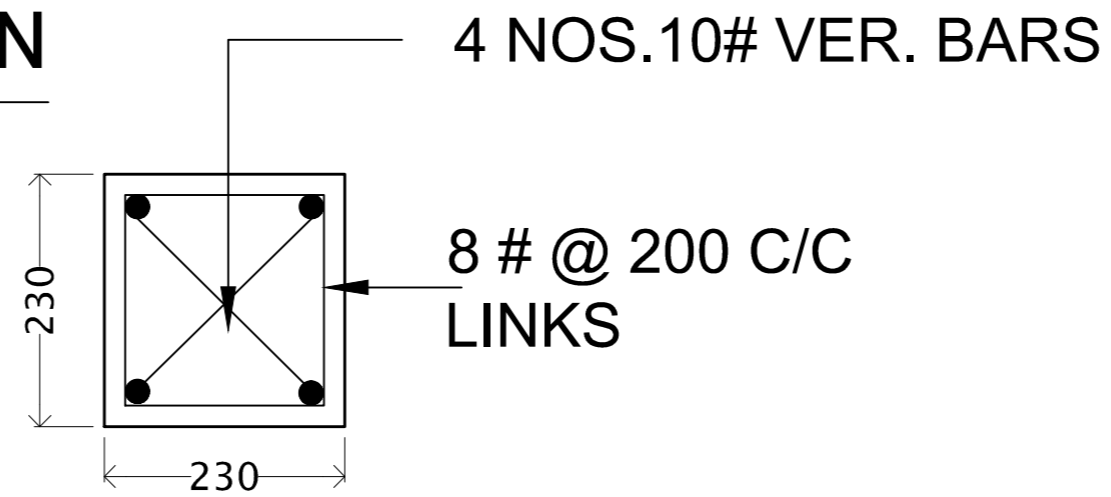
DRAWING NO.

REVISION

ARCHITECT: -
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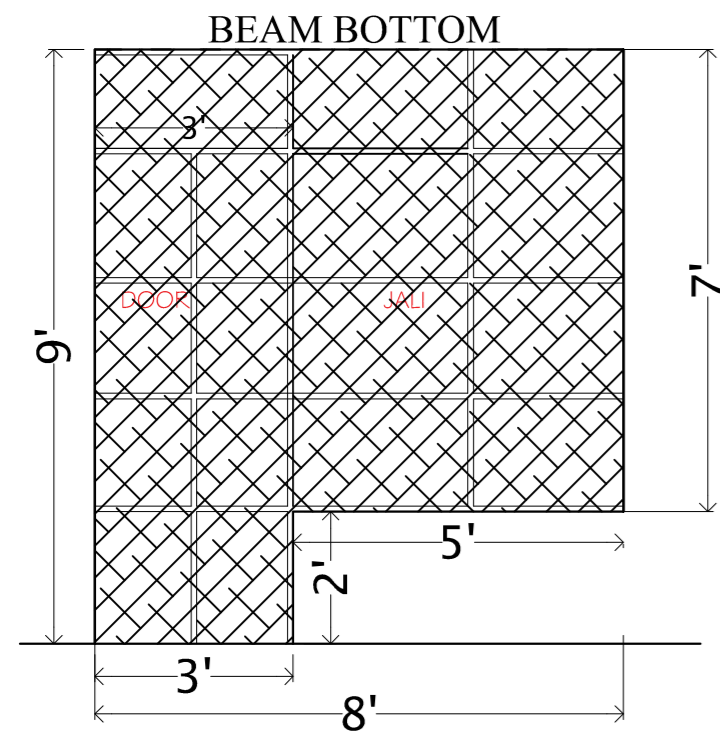
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DETAILS OF COLUMN

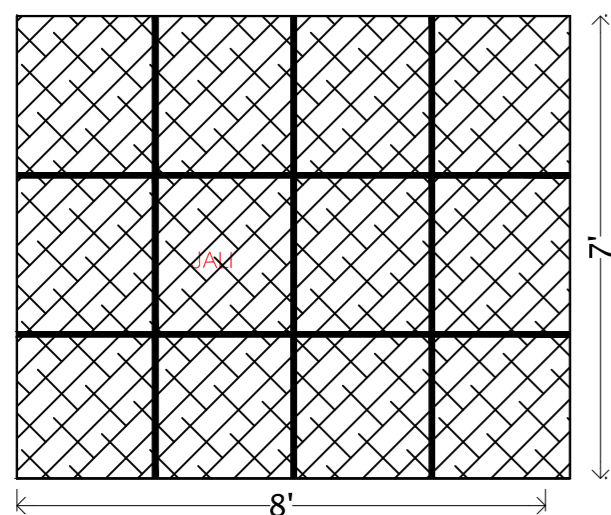


COLUMN ' C1 '
(9" X 9")

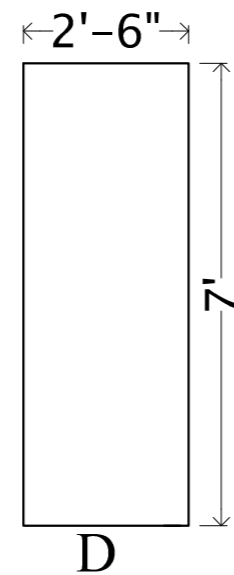
DETAILS OF DOG KENNEL DOOR & WINDOW DETAILS



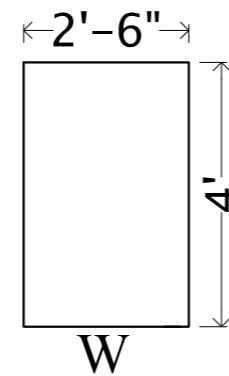
D/W = 01 NOS.
STAINLESS STEEL
FRAME WITH JALI



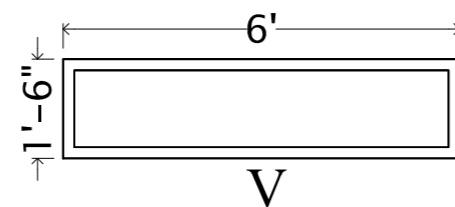
JALI = 02 NOS.
STAINLESS STEEL
FRAME WITH JALI



D = 02 NOS.

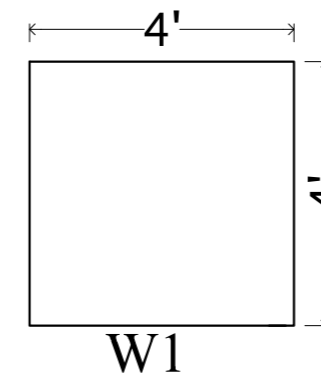


W = 02 NOS.

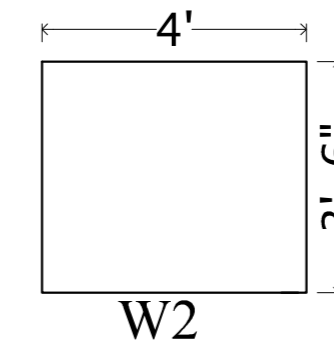


V = 04 NOS.

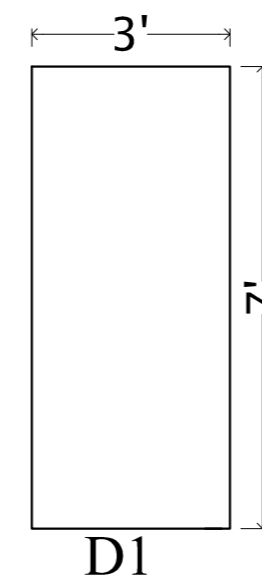
STORE/PANTRY DOOR & WINDOW DETAILS



W1 = 01 NOS.



W2 = 01 NOS.



D1 = 01 NOS.

DETAILS OF DOG KENNEL

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DRAWING NO.

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MO.-09424395044

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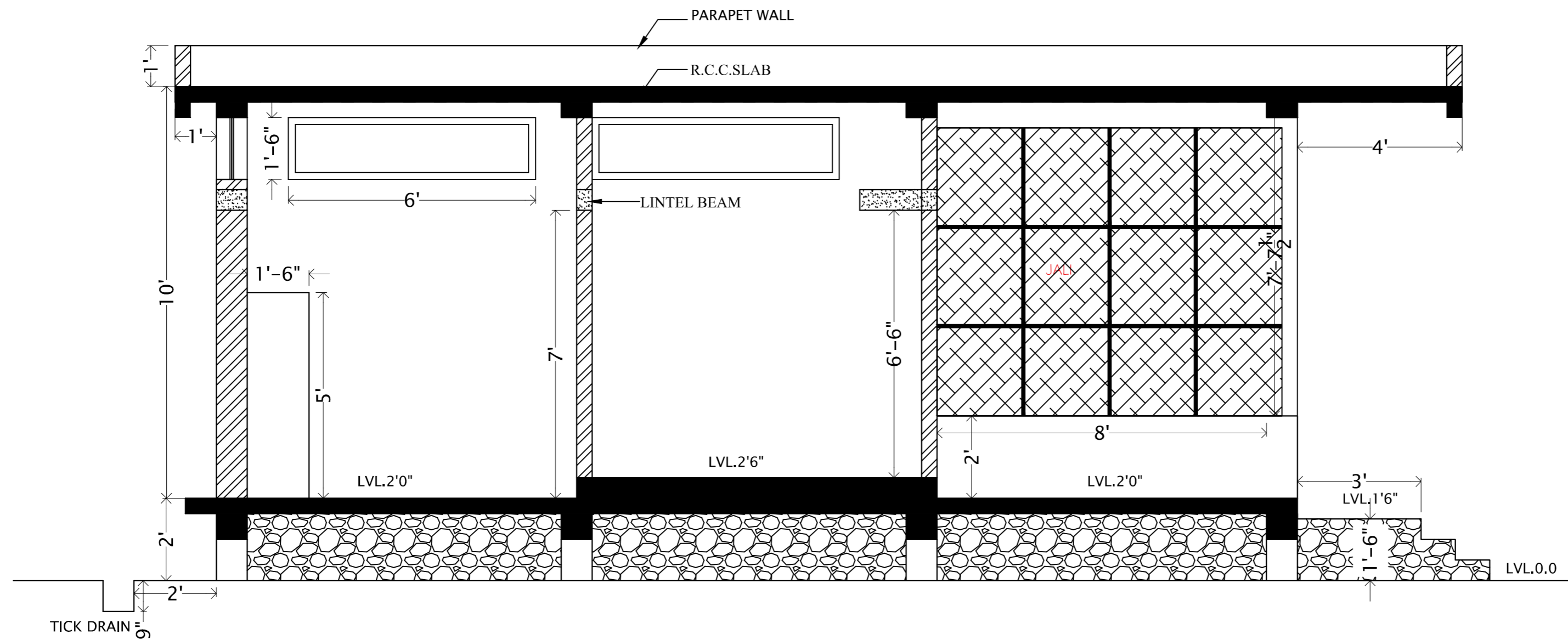
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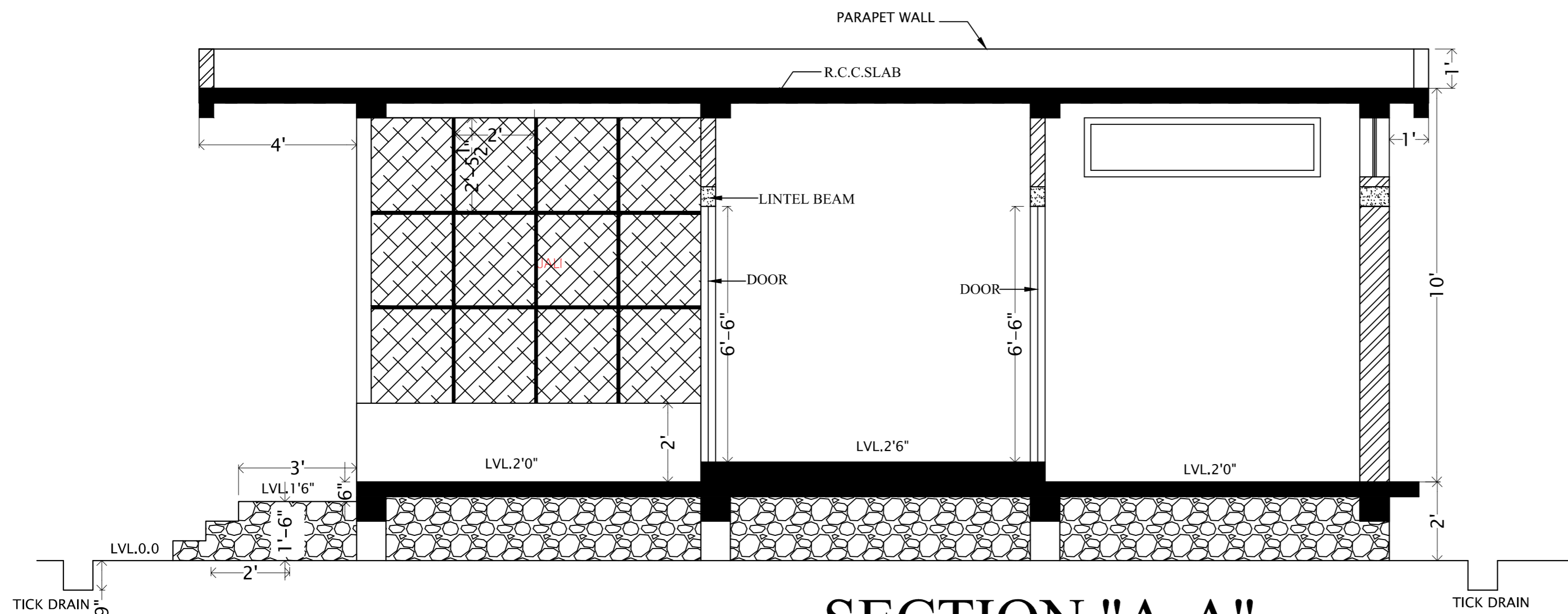
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SECTION "B-B"

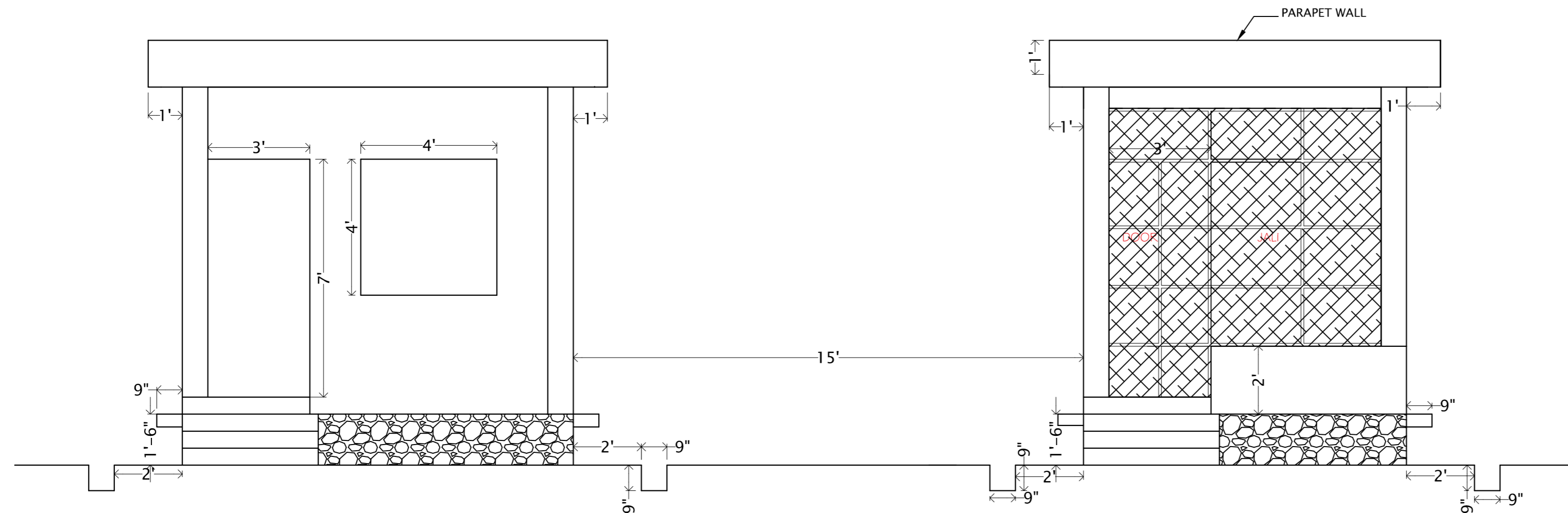


SECTION "A-A"

DETAILS OF DOG KENNEL

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FRONT ELEVATION

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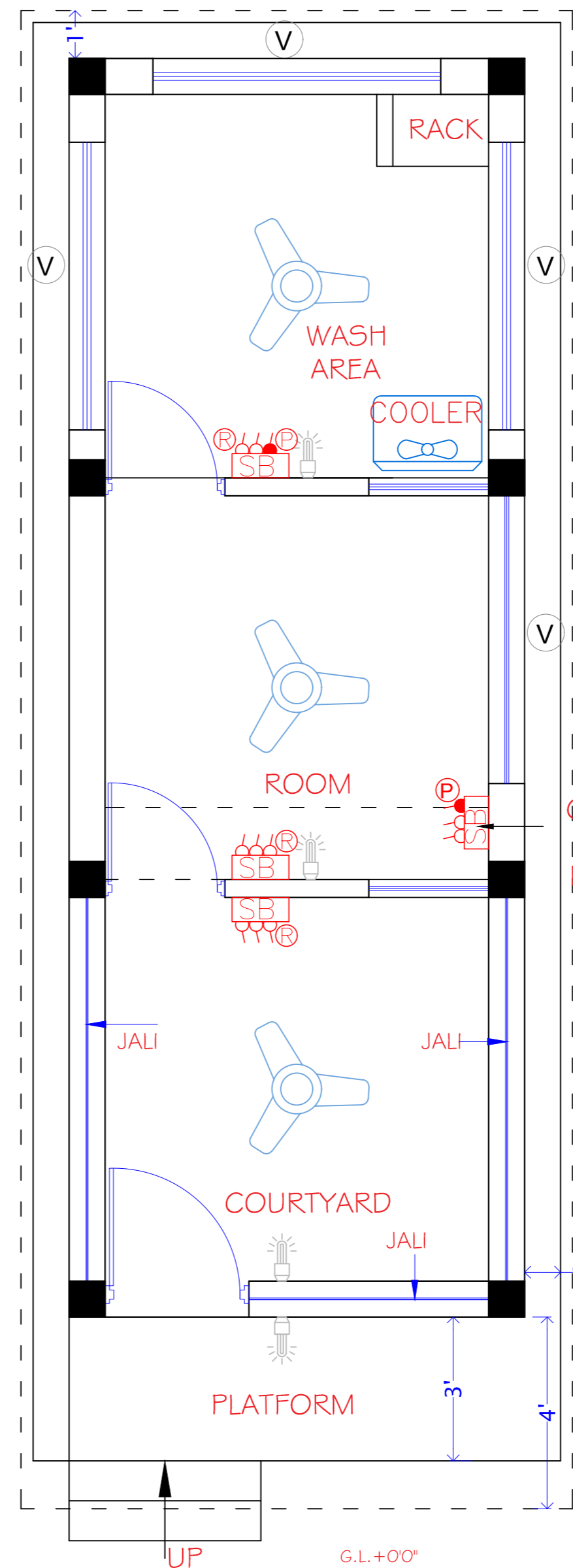
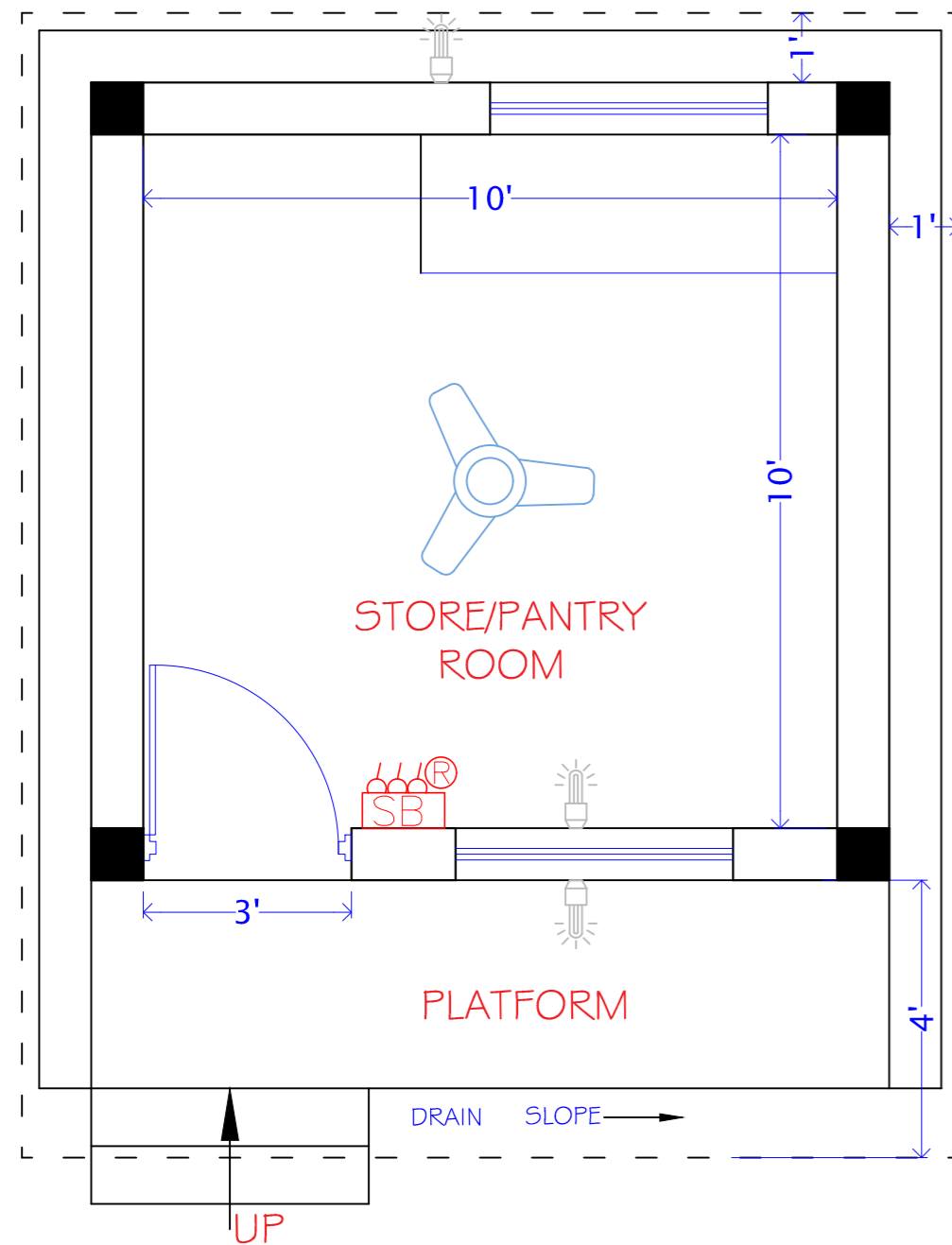
REVISION

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ELECTRICAL LEGEND

	CEILING FAN	AT CENTER OF THE ROOM
	EXHAUST FAN	POINT ON WALL
	WALL FAN	POINT ON WALL
	TELE-PHONE	OUT-PUT ON SB
	TELE-VISION	CABLE SOCKET ON SB
	BELL	ON WALL AT. 8'6" HT.
	GISER 16 AMP SOCKET POWER SWITCH WITH INDICATOR	ON WALL AT. 8'0" HT.
	MCB BOX	ON WALL AT. 8'0" HT.
	TWO-WAY SWITCH	ON SWITCH BORD
	SIMPLE SOCKET 6 AMP	ON SWITCH BORD
	POWER SOCKET 16 AMP	ON SWITCH BORD
	SWITCH FOR BELL	ON SWITCH BORD
	TUBE LIGHT	ON WALL AT. 8'6" HT.
	CFL ON WALL	ON WALL AT. 8'6" HT.
	DECORATIVE LAMP	ON WALL AT. 6'0" HT.
	CEILING LIGHT	AT MAIN CEILING
	CEILING LIGHT	AT FALSE CEILING
	REGULATOR	ON SWITCH BORD
	COOLER PROVISION	AS REQUIRED
	MAIN LINE CONNECTION	FROM METER
	AC COPPER LINE	FROM AC TO EXTERNAL UNIT
	SWITCH BORD	ON WALL AT. 4'6" HT.
	SWITCH BORD	ON WALL AT. 2'0" HT.
	SWITCH 6 AMP	ON SWITCH BORD
	METER BOX	ON WALL AT. 8'0" HT.
	GATE LAMP	AS REQUIRED
	SWITCH 16 AMP	ON SWITCH BORD



ELECTRICAL PLAN

DOG KENNEL



FRONT 3D ELEVATION

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