

RESIDENCE AFFORDABLE HOUSING PROJECT

LAYOUT PLAN SHOWING FOR PROP. AFFORDABLE RESIDENCE+COMMERCIAL BUILDING

ON F.P. NO.211, OF T.P.S. NO.3 (GHUMA) (DRAFT SANCTIONED).

IO.P. NO.211 OF R.S.NO.7671 VILLAGE:- GHUMA. TA.-DASKROI. DIST. - AHMEDABAD.

SCALE :- 1C.M. = 2.00MT.
USE = RESIDENCIAL & COMMERCIAL SHOP
(AFFORDABLE HOUSING PROJECT)

SCALE :- 1C.M. = 2.00MT.

ZONE : RESIDENTIAL AFFORDABLE HOUSING - I (R1) (R.A.H. -1)

SCHEDULE OF OPENING	RCC STAIR DETAIL :
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SCHEDULE OF OPENING		R.C.C. STAIR DETAIL :-	
DATE	4.50 X 0.40	1.00	0.10 X 0.10

DW = 1.52 X 2.10	W = 2.13 X 1.20	WIDTH = 1.52 MT
D = 1.07 X 2.10	W1 = 1.52 X 1.20	D152P = 0.15 MT

D = 1.07 X 2.10	W1 = 1.52 X 1.20	RISER = 0.16 MI
D1 = 0.91 X 2.10	W2 = 1.22 X 1.20	TREAD = 0.30 MT

D1 = 0.31 X 2.10	W2 = 1.22 X 1.20	IIIAD = 0.50 MW
D2 = 0.76 X 2.10	W3 = 1.41 X 1.20	

$$RS_x = 2.10 \times 2.10 \quad V = 0.60 \times 0.60$$

COLOUR NOTE :-

PILOT BALINDRY

PLOT BOUNDARY
PROP WORK

PROJ. WORK	PROP. DR LINE
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PROP. DR-LINE
BOARD

PILOT ROUNDRY		DUST PIN	
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 PLOT BOUNDARY
 PROP WORK
 DUST-BIN
 TREE

PROP. WORK	FREE
PROP. DR. LINE	PERCOLATING WELL

Red City.

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Suberi.

OWNER

KAVISHA INFRASTRUCTURE
AUDA/DP/0003

AUDA/DI

Developer

ENGINEER

KHELAN. B. PARMAR

(M.E. Civil)

AUDA LIC NO. ER-ENG 0114\$
S.D.-SD1/00344

3.0.301/0034
C.O.W.-COW-1/00823
C.O.W.-COW-1/00823

A-102, Kausambi Flat,
Mr. Mahalaxmi Cross Road,

NI. Manabhai Cross Road,
Paldi, Ahmedabad-380006

CTD ENGINEER

CTD ENGINEER

C.O.W.



1 2.00 MT. WIDE T.P. ROAD

2.00 MT. WIDE T.P. ROAD

The basic requirements for fire protection are as follows:

- 1) Hydrant system
One fire hydrant should be provided near the house or house or hydrant outlet, at each floor for the fire pump at the underground water tank with a capacity to discharge 900 ltr per min at 3 bar pressure as measured at the terrace level should be installed.
The rise for the buildings exceeding 15m height should not be less than 150mm internal diameter. The rise should be connected to the bottom of the terrace tank with a stop valve and a fire tap to act as a downcomer.
One riser is required for every 100sq meters floor area and if the building is divided into two or more parts then each part should have a separate riser with all the fittings at each floor level.
Each floor should have one hydrant outlet with a coupling for attaching a 63mm dia. hose.
25mm bore house-vent house with three shut-off cocks at each floor landing. The length of the house-vent house should be enough to reach the farthest corner of the floor. house-vent with 15 meters long 63mm dia. house and 12.5mm bore nozzle of alternate floors. The house-vent house should be coupled to the riser.
Fire service line should be installed at a point near the entry to the premises where a fire service vehicle can approach easily.
The overhead tank shall be of a capacity of not less than 20,000 litres. The underground tank shall be of not less than 1,00,000 litres.
2) Fire lift
The fire lift and all lifts should have a provision to ground automatically in case of electricity failure, each building should have at least one lift as a fire lift and if the building is divided into two or more parts then each part should have a fire lift well should have downcomer to ensure the lift well is well sealed and it will automatically operate when alarm call point is operated, so that it prevents the lift well getting smoke logged.

- 3) Fire alarm
Fire alarm call point to be installed at each floor with sounders capable of being heard all throughout the building.
4) Fire extinguishers
One CO2 extinguisher of 4.5kg. and one extinguisher of 5kg. DCP to be installed on each floor in case of commercial building.
AND/OR
Two CO2 extinguisher of 5kg. capacity on each floor and 5kg. DCP extinguisher on alternate floor in case of residential buildings.
If the building is divided into two or more parts then each part should have these extinguishers installed.

- 5) Staircase
The staircase has to be open from at least one or two side but if the staircase is in the center of the building it has to be pressurized to prevent it getting smoke logged and open for two sides.
The floor / Downcomer should be located in the staircase or close to it to make it easily accessible in case of fire from the floor below or above.

- 6) Basement
The basement of 200sq meter or more should be protected with automatic sprinkler system with at least one sprinkler head for a car parking space.
Additionally be protected by a hydrant outlet and two 25mm bore house-vent house with 8 mm bore nozzle at each basement level.

- 7) Lightning arrester
A lightning arrester should also be installed and be properly earthed to prevent damage to the building when the lightning strikes.

- NOTES: - COCOP-2017
1. ENGINEER IS FULLY RESPONSIBLE FOR LEAVING OPEN SPACE AND MARGIN, THE DEPTH AND POSITION OF EXISTING MUNICIPAL MAIN-OLE IS VERIFIED BY ME ON SITE AND PREMISES ON GET DRAINAGE CONNECTION.
2. IT IS CERTIFY THAT ACCORDING TO COCOP-2017 ALL REQUIREMENTS OF THE BUILDING ARE CHECKED AND NECESSARY ACTIONS ARE TAKEN.
3. IT IS CERTIFY THAT ACCORDING TO THE CLAUSE NO. 3.5.5 OF THE COCOP-2017, THE STRUCTURE OF THE BUILDING IS DESIGN AS PER THE NORMS OF THE INDIAN STANDARDS.
4. DESIGN OF STAIRCASE AND LIFTING IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 22.1.12 AND 21.1.2, 21.1.4 & 22.2 OF COCOP-2017.
5. PEDESTRIANS RAMP IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 21.1.5 OF COCOP-2017.
6. WATER TANK IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 21.1.8 OF COCOP-2017.
7. SEWAGE LIFTING PUMP IS PROVIDED AT GROUND LEVEL FOR EACH UNIT.
8. WATER TANK FOR FIRE SAFETY REQUIREMENT PROVIDED AS PER CLAUSE NO. 22.2.1 OF COCOP-2017.
9. ELECTRICAL INFRASTRUCTURE SHALL BE PROVIDED AS PER CLAUSE NO. 21.1.1.
10. LIFT SHALL BE PROVIDED AS PER CLAUSE 21.1.1.2 & 21.1.4 OF COCOP-2017.
11. STORAGE OF THE PARKING PLACE IS TO BE PROVIDED AS PER THE CLAUSE NO. 21.1.7 OF THE COCOP-2017.
12. THE PAVING OF BUILDING UNPAVED PLOT AS PER THE PROVISION OF THE CLAUSE NO. 21.1.4 OF COCOP-2017.
13. THE STRUCTURE OF THE BUILDING IS AS PER THE NORMS SPECIFIED IN THE INDIAN STANDARD AND NECESSARY ACTION SHALL BE TAKEN FOR THE STRUCTURAL SAFETY DURING THE CONSTRUCTION.
14. RAIN WATER STORAGE TANK AND RAIN WATER HARVESTING SYSTEM IS PROVIDED AS PER THE CLAUSE NO. 22.2.2 OF COCOP-2017.
15. COMMUNITY BIN PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 26.3 OF COCOP-2017.
16. THE PLANTATION IS PROVIDED AS PER THE CLAUSE NO. 23.3 OF COCOP-2017.
17. POLLUTION CONTROL SYSTEM IS PROVIDED AS PER THE CHAPTER NO. 28 OF COCOP-2017.
18. FIRE SAFETY SYSTEM IS PROVIDED AS PER CHAPTER NO. 22 OF COCOP-2017.
19. MAINTENANCE AND REPAIRS OF BUILDING SHALL BE DONE AS PER CHAPTER NO. 27 OF COCOP-2017.
20. ROOF TOP SOLAR INSTALLATION AND GENERATION SHALL BE PROVIDED AS PER CLAUSE NO. COCOP-2017.
21. MARGINAL SPACE AND CALLIUM SHALL HAVE LOAD BEARING CAPACITY OF 40 TONNES PER SQUARE METER AS PER CLAUSE NO. 23.3 OF COCOP-2017.

COMMON PLOT
 $\frac{1}{2} (16.29 + 4.99) \times 27.96 = 297.49 \text{ SMT.}$
 $\frac{1}{2} (10.84 + 9.16) \times 24.04 = 240.40 \text{ SMT.}$
TOTAL = 537.89 SQ.MT.

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PARKING AREA CALCULATION FOR RESI. :-			
TOTAL USED F.S.I. :- COMM. F.S.I. = RESI. F.S.I.			
14246.14 - 431.45 = 13814.69 SQ.M			
REQ.	PROVI.	TOTAL	TOTAL
13814.69 X 0.10 % = 1381.47 SMT			
ADD :- REQ. VISI. PARK. 1381.47 X 0.10 = 138.15 SMT.			
REQ. CAR PARKING 50 %	690.73	6003.05	
REQ. OTHER PARKING 50 %	690.73	690.91	
REQ. VISITORS PARKING 10 %	138.15	264.82	
	1519.62	6958.78	
PARKING AREA CALCULATION FOR COMM. :-			
TOTAL COMM. USE F.S.I. = 431.45 SQ.M			
REQ.	PROVI.	TOTAL	TOTAL
431.45 X 0.50 % = 215.72 SMT			
REQ. CAR PARKING 50 %	107.86	259.08	
REQ. OTHER PARKING 30 %	64.72	88.88	
REQ. VISITORS PARKING 20 %	43.14	51.04	
	215.72	399.00	

PROV. PARKI. AREA CAL. FOR COMMERCIAL			
CAR PARKING IN SQ. MT.			
A1 18.88 X 14.89 = 281.12 SQ. MT.			
LIFT = 2.24 X 4.17 X 1 = 9.34			
PLAT FORM = 2.23 X 4.50 = 10.03			
RAMP = 0.72 X 3.71 = 2.67			
TOTAL LESS = 22.04			
TOTAL (281.12 - 22.04) IN 1ST CELLAR =	259.08		

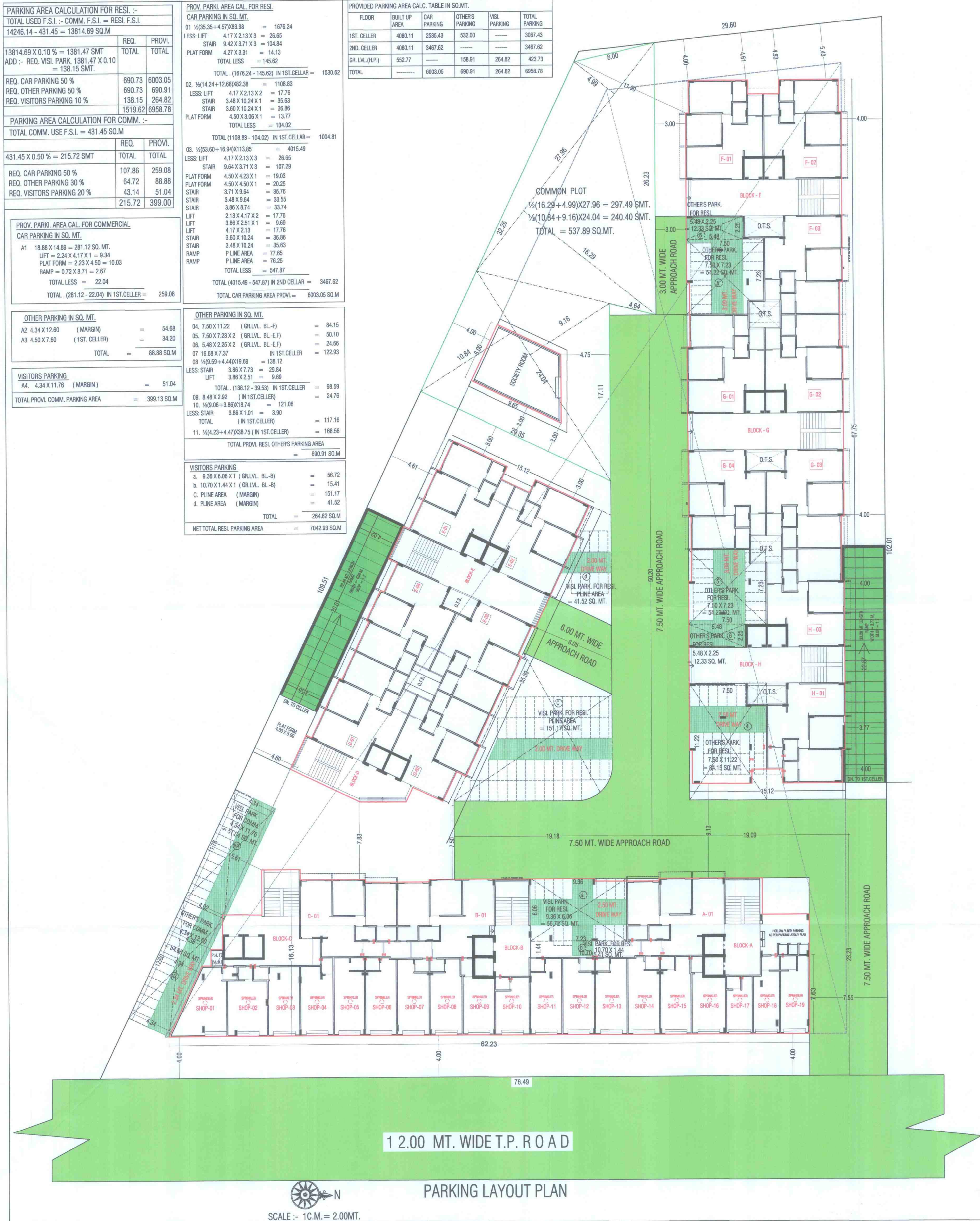
OTHER PARKING IN SQ. MT.			
A2 4.34 X 12.60 (MARGIN) =	54.68		
A3 4.50 X 7.60 (1ST. CELLAR) =	34.20		
TOTAL =	88.88 SQ.M		

VISITORS PARKING			
A4 4.34 X 11.76 (MARGIN) =	51.04		
TOTAL PROVI. COMM. PARKING AREA =	399.13 SQ.M		

PROV. PARKI. AREA CAL. FOR RESI.			
CAR PARKING IN SQ. MT.			
O1 1/4(35.35+4.57)X3.98 =	1676.24		
LESS: LIFT 4.17 X 2.13 X 3 =	26.65		
STAIR 9.42 X 3.31 X 3 =	104.94		
PLAT FORM 4.27 X 3.31 =	14.13		
TOTAL LESS =	145.62		
TOTAL (1676.24 - 145.62) IN 1ST CELLAR =	1530.62		
O2 1/4(14.24+12.68)X2.38 =	1108.83		
LESS: LIFT 4.17 X 2.13 X 2 =	17.76		
STAIR 3.48 X 10.24 X 1 =	35.63		
STAIR 3.60 X 10.24 X 1 =	36.86		
PLAT FORM 4.50 X 3.06 X 1 =	13.77		
TOTAL LESS =	104.02		
TOTAL (1108.83 - 104.02) IN 1ST CELLAR =	1004.81		
O3 1/4(53.60+16.94)X11.85 =	4015.49		
LESS: LIFT 4.17 X 2.13 X 3 =	26.65		
STAIR 9.64 X 3.71 X 3 =	107.29		
PLAT FORM 4.50 X 4.23 X 1 =	19.03		
PLAT FORM 4.50 X 4.50 X 1 =	20.25		
STAIR 3.71 X 9.84 =	35.76		
STAIR 3.48 X 9.84 =	33.55		
STAIR 3.86 X 8.74 =	33.74		
LIFT 2.13 X 4.17 X 2 =	17.76		
LIFT 3.86 X 2.51 X 1 =	9.69		
LIFT 4.17 X 2.13 =	17.76		
STAIR 3.60 X 10.24 =	36.86		
STAIR 3.48 X 10.24 =	35.63		
P LINE AREA =	77.65		
P LINE AREA =	76.25		
TOTAL LESS =	547.87		
TOTAL (4015.49 - 547.87) IN 2ND CELLAR =	3467.62		
TOTAL CAR PARKING AREA PROVI. =	6003.05 SQ.M		

OTHER PARKING IN SQ. MT.			
O4 7.50 X 11.22 (GR.LVL. BL-F) =	84.15		
O5 7.50 X 7.23 X 2 (GR.LVL. BL-EF) =	50.10		
O6 5.48 X 2.25 X 2 (GR.LVL. BL-EF) =	24.66		
O7 16.68 X 7.37 IN 1ST CELLAR =	122.93		
O8 1/4(9.59+4.44)X19.69 =	138.12		
LESS: STAIR 3.86 X 7.73 =	29.84		
LIFT 3.86 X 2.51 =	9.69		
TOTAL (138.12 - 39.53) IN 1ST CELLAR =	98.59		
O9 8.48 X 2.92 (IN 1ST CELLAR) =	24.76		
O10 1/4(9.08+3.86)X18.74 =	121.06		
LESS: STAIR 3.86 X 1.01 =	3.90		
TOTAL (IN 1ST CELLAR) =	117.16		
O11 1/4(4.23+4.47)X38.75 (IN 1ST CELLAR) =	168.56		
TOTAL PROVI. RESI. OTHERS PARKING AREA =	690.91 SQ.M		
VISITORS PARKING			
a. 9.36 X 6.06 X 1 (GR.LVL. BL-B) =	56.72		
b. 10.70 X 1.44 X 1 (GR.LVL. BL-B) =	15.41		
c. P LINE AREA (MARGIN) =	151.17		
d. P LINE AREA (MARGIN) =	41.52		
TOTAL =	264.82 SQ.M		
NET TOTAL RESI. PARKING AREA =	7042.93 SQ.M		

PROVIDED PARKING AREA CALC. TABLE IN SQ.MT.					
FLOOR	BUILT UP AREA	CAR PARKING	OTHERS PARKING	VISI. PARKING	TOTAL PARKING
1ST. CELLAR	4080.11	2535.43	532.00	-----	3067.43
2ND. CELLAR	4080.11	3467.62	-----	-----	3467.62
GR. LVL.(H.P.)	552.77	-----	158.91	264.82	423.73
TOTAL	-----	6003.05	690.91	264.82	6958.78



ODPS ID NO. 674597

RESIDENCE AFFORDABLE HOUSING PROJECT
PARKING LAYOUT PLAN SHOWING FOR PROP. AFFORDABLE RESIDENCE+COMMERCIAL
BUILDING ON F.P. NO.211, OF T.P.S. NO.3 (DHUMA) (DRAFT SANCATIONED),
[O.P. NO.211 OF R.S.NO.767] VILLAGE:- GHUMA, TA.-DASKOI, DIST. : AHMEDABAD.

SCALE :- 1C.M. = 2.00MT. USE = RESIDENCIAL & COMMERCIALSHOPS (AFFORDABLE HOUSING PROJECT)

ZONE : RESIDENTIAL AFFORDABLE HOUSING -I (R1) (R.A.H. -I) BLOCK - A

SCHEDULE OF OPENING R.C.C. STAIR DETAIL :-
DW = 1.52 X 2.10 W = 2.13 X 1.20 WIDTH = 1.52 MT
D = 1.07 X 2.10 W1 = 1.52 X 1.20 RISER = 0.16 MT
D1 = 0.91 X 2.10 W2 = 1.22 X 1.20 TREAD = 0.30 MT
D2 = 0.76 X 2.10 W3 = 1.41 X 1.20
RS = 2.10 X 2.10 V = 0.60 X 0.60

COLOUR NOTE :-
PLOT BOUNDRY DUST-BIN
PROP. WORK TREE
PROP. DR-LINE PERCOLATING WELL
ROAD

OWNER
S.R.Patel.
Suhel.

DEVELOPER
KAVISHA INFRASTRUCTURE
AUDA ENG/956
Developer

ENGINEER
KHELAN. B. PAHMAR
(M.E. Civil)
AUDA LIC NO. ER-ENG 01145
S.D.-SD1/00344
C.O.W.-COW-1/00823
A-102, Kausambi Flat,
Nr. Mahalaxmi Cross Road,
Paldi, Ahmedabad-380006

STR. ENGINEER
KHELAN. B. PAHMAR
(M.E. Civil)
AUDA LIC NO. ER-ENG 01145
S.D.-SD1/00344
C.O.W.-COW-1/00823
A-102, Kausambi Flat,
Nr. Mahalaxmi Cross Road,
Paldi, Ahmedabad-380006

C.O.W.

AUTHORITY
Ahmedabad Urban Development Authority
Ahmedabad.

Senior Town Planner
Ahmedabad.