SECTION- (X-X')

SECTION- (Y-Y')

FRONT ELEVATION

SIDE ELEVATION

GROUND FLOOR PLAN

1ST FLOOR PLAN

2ND,3RD & 4th FLOOR PLAN

TERRACE FLOOR PLAN

LOCATION PLAN

SECTION FIRE WATER TANK

DET. OF RECHARGEBLE BORE WELL

LAYOUT PLAN

COLUMN SCHEDULE

FROM FOOING TO 30TH FLOOR	MAIN STEEL	8-20Φ	8-16Φ	6-12Φ
	MIX SIZE	M-20 16"X16"	M-20 10"X14"	M-20 10"X12"
	SECTION			
	TYP. LINKS	8MM@3"C/C	8MM@3"C/C	8MM@3"C/C
	TYPICAL LINK DETAILS			
	MARKED	(C1)	(C2)	(C3)

TYPICAL SECTION OF SLAB

L - JUNCTION ALTERNATIVE

L - JUNCTION ALTERNATIVE

T - JUNCTION

ANCORAGE OF BEAM BARS IN AN EXTERNAL JOINT

LAP SPLICES IN BEAMS

DETAILS OF PILE FOUNDATION

SECTION OF SEPTIC TANK AND SOAK PIT

PLAN OF SEPTIC TANK AND SOAK PIT

PROPOSED RESIDENTIAL BUILDING (G+4)

18.29 m. WIDE ROAD

SITE PLAN

OCCUPANT LOAD (RESIDENTIAL)

NO. OF FLATS = 36
5 PERSON PER FLAT
NO. OF PERSON = 36x5 = 180

PARKING CALCULATION (RESIDENTIAL)

RESIDENTIAL PARKING
REQUIRED PARKING 25% of
TOTAL BUILT AREA IN RESIDENTIAL
TOTAL BUILT AREA (ALL FLOOR)=3337.16 sqm
So, REQUIRED CAR PARKING AREA = 834.29 sqm

PROVIDE COVERED PARKING = 834.60 sq.m.

WATER TANK REQUIREMENT (RESIDENTIAL)

TOTAL NO. OF FLAT = 36 NOS.
EACH FLAT HAVING 5 PERSON
TOTAL NO OF PERSON = 36x5 = 180 PERSON
PER PERSON NEED VARYING=135 litres/
TOTAL REQUIRED OF WATER TANK = 180 X135 = 24300 litres = 24.30 cum
SHAPE OF WATER TANK = RECTANGULAR
TOTAL = 24.30 cum
PROVIDED UNDER GROUND WATER TANK SIZE
5.60 X 4.20 X 1.40 = 32.93 cum.

TOTAL PROVIDE WATER TANK CAPACITY = 32.93 cum
= 32930 LITRES

SEPTIC TANK REQUIREMENT (RESIDENTIAL)

NO. OF FLAT = 36 NOS.
EACH FLAT HAVING 5 PERSON
TOTAL NO. OF PERSON = 36 X 5 = 180 PERSON
PER PERSON REQ. 45 litres/day
TOTAL REQD. VOLUME OF SEPTIC TANK = 180X45= 8100 litres = 8.10 cum

VOLUME OF SEPTIC TANK SIZE =3.0X2.0 X2.4 = 14.40 cum
TOTAL PROVIDE AREA OF SEPTIC TANK=14.40 cum

WATER HARVESTING SUMP CALCULATION :-

TERRACE FLOOR AREA = 814.62 sqm.
RAIN WATER HARVESTING SUMP REQ. 6 CUM FOR
EVERY 100 SQM. TERRACE AREA.
SO TOTAL REQ. CAPACITY OF SUMP = 8.14 x 6 = 48.84 cum
PROVIDED TANK SIZE =7.0x3.0x1.8 =38.0 cum
TOTAL VOLUME OF SUMP = 63.0 cum

SCHEDULE OF DOORS & WINDOWS

S.NO.	TYPE	WIDTH	CILL	HEIGHT	DESCRIPTION
01	D	1.07	0.0	2.13	SINGLE LEAF DOOR
02	D1	0.89	0.0	2.13	SINGLE LEAF DOOR
03	D2	0.91	0.0	2.13	SINGLE LEAF DOOR
04	D3	0.76	0.0	2.13	SINGLE LEAF DOOR
05	W	1.82	0.60	1.22	FULLY GLAZED WIN.
06	W1	1.22	0.60	1.22	FULLY GLAZED WIN.
07	W2	0.91	0.60	1.22	FULLY GLAZED WIN.
08	W3	0.60	1.22	0.60	FULLY GLAZED WIN.

AREA CALCULATION :-

PLOT AREA = 1429.21 sq. m.
GROUND FLOOR B/U AREA= 29.35 sq. m.
1ST FLOOR B/U ARE A= 805.55 sq.m.
2ND FLOOR B/U AREA=814.62 sq.m.
3RD FLOOR B/U AREA=814.62 sq.m.
4TH FLOOR B/U AREA=814.62 sq.m.

TOTAL B/U AREA (ALL FLOOR) = 3337.16 sq.m.

F.A.R.= total built up area / Plot area = 3337.16 / 1429.21 = 2.33

SPECIFICATION

FOUNDATION :- Providing & installing bored cast in situ RCC (reinforcement cement concrete) of specified dia and length below the pile cap in cement mortar 1:1:2:3 (1cement :1/2mm coarse sand :3 graded stone aggregate or 20mm nominal size) to carry the safe working load not less than specified.
SUPER STRUCTURE :- Providing 1st class brick work in cement mortar 1:6 or 1:4 (1 cement 6 fine sand).
LINTEL :- R.C.C. 1:2:4 (1 Cement :2 coarse sand :4 graded stone aggregate) at lintal level as per structure design.
ROOFING :-Providing 125mm R.C.C. roof slab with approved quality of stone chip and graded coarse sand as per structure design.
FLOORING :-Providing cement concrete flooring 1:2:4 (1 Cement :2 coarse sand : 4 graded stone aggregate) finish with a coat of neat cement including cement slurry.
WOOD WORK :-Providing and fixing good-quality well dressed and well seasoned sal wood work in Chaukhats (100x75) of door & window jams with s.a hinges and tilling finish, the non decorative type size of block board and commercial 3 ply veneers with var. gains & face of shutter.
PLASTERING :-12mm thick cement plaster (1:5) with fine sand inner and outer side of wall.
COLOURING :-Two coats white wash or colour as per choice.
TOILET :-As per septic type.
ELECTRICAL :-Concelled P.V.C. conduit wiring with standered electrical accessories electrical accessories :- power point, electrical fittings like tube lights etc.

STRUCTURAL NOTES :-

1) All RCC construction work shall be done strictly as per IS 456-2000 & IS 13920-1993.
2) High yield strength steel (deformed bars) having yield stress not less than 415 N/mm (Fe415) conforming to IS 1786-1985 shall be used as reinforcement unless specified otherwise.
3) Concrete specifications shall be as per IS 456-2000 & IS 13920-1993.
4) Concrete mix shall be as follows unless specified otherwise :-
(A) Foundation, Beams and Columns - M20
5) Clear minimum cover for main reinforcement is as follows :- unless specified otherwise.
(A) Beam - 25mm or the diameter of the bar whichever is greater.
(B) Slab - 20mm or the diameter of the bar whichever is greater.
(C) Column - 40mm or the diameter of the bar whichever is greater.
6) Bending and fixing of bars for reinforcement shall be as per IS 2502-1963 and IS 6526-1969.
7) This structural drawing should be compared with the detailed relevant architectural drawing before execution.
8) Foundation has been Design for a soil bearing capacity of 7.50t/m2. All the required depth will be confirmed by soil test.

PLOT DETAILS :-

PROPOSED RESIDENTIAL BUILDING FOR "NAYRATAN BUILDCON"

THANA NO - 24
TAUZI NO-5234 , KHATA NO - 193,198(N)
MAUZA -MAINPURA SHANKAR
KHERA NO- 145(134)(N)
SITUATED AT WARD NO -09
MAINPURA, DANAPUR , DISTRICT-PATNA (BIHAR)

NAME OF THE LAND OWNERS:-

(1)SRI SUJAT KUMAR & SRI AKASH KUMAR
S/O LATE SANJAY MAHTO
(2)SMT. SAVITA DEVI
W/O SRI VIKAS KUMAR MEHTA
(3)SRI. VISHWANATH PRASAD
S/O LATE GULABCHAND PRASAD
(4)SMT. LEELA DEVI
S/O SRI VISHWANATH PRASAD
(5)SRI KASHI NATH
S/O LATE GULABCHAND PRASAD
(6)SMT. SUSHILA DEVI
W/O SRI KASHI NATH

SHEET NO.		NORTH
01/01	1:100 1:1.250	

Architect Name: Sushil Kumar, Structure Engineer, Registration No - 19200118 NPDP, Nagar Parishad Danapur Cantonment

Partner

SIGNATURE OF OWNER

SIGNATURE OF ENGINEER/SUPERVISOR

VISHAL KUMAR
Registered Architect
Danapur Nagar Parishad Nirmatri
Regn. Number (ARCHITECT) PATNA

19.03.2020
A.E.
Nagar Parishad Danapur Nirmatri

SIGNATURE OF EXECUTIVE OFFICER

J.E.
Nagar Parishad Danapur Nirmatri