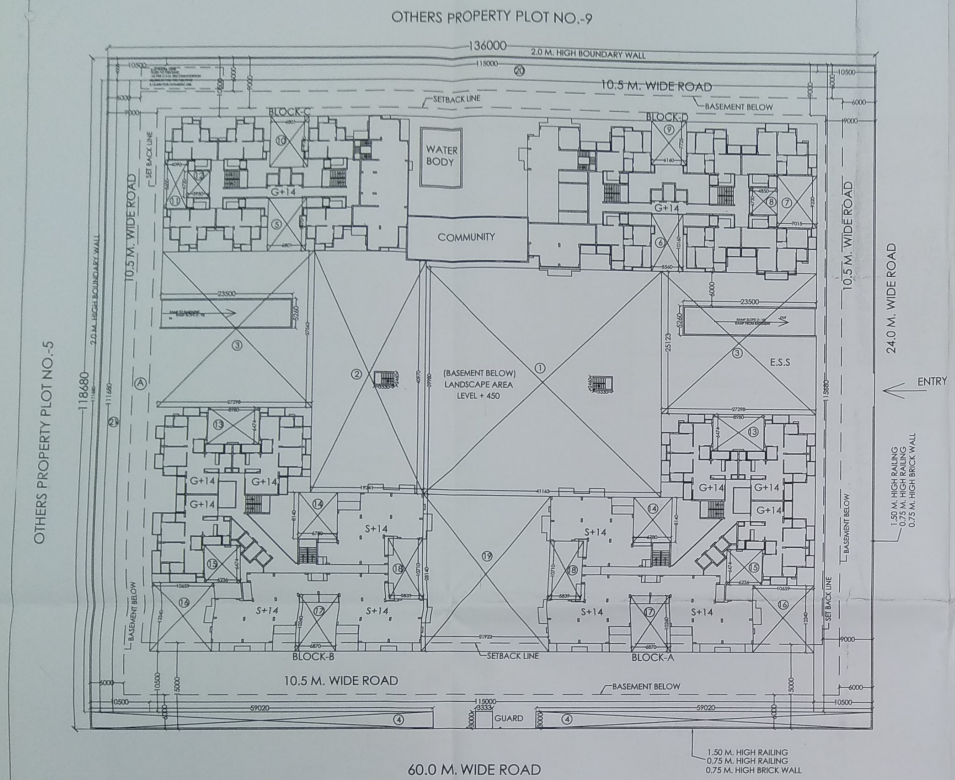
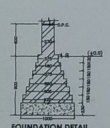
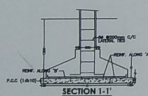
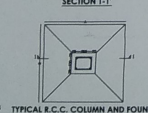




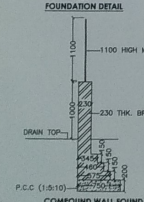
FOUNDATION DETAIL



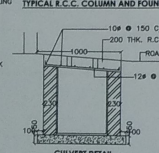
SECTION 1-1'



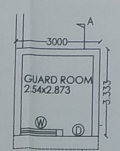
TYPICAL R.C.C. COLUMN AND FOUNDATION



COMPOUND WALL FOUNDATION



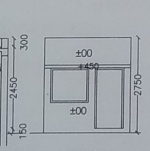
CULVERT DETAIL



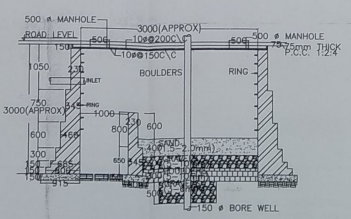
PLAN

GUARD ROOM DETAIL

SECTION AA'



ELEVATION



PART SECTION OF RAIN WATER HARVESTING RECHARGE STRUCTURE

10% EXTRA F.A.R ACHIEVED:-

FLOORS	BLOCK A	BLOCK B	BLOCK C	BLOCK D	GUARD	S.T.P.	TOTAL
GROUND	49.456	49.456	52.580	54.339	10.00	49.20	264.039
FIRST	46.868	46.868	39.668	41.419	-	-	174.823
SECOND	46.868	46.868	43.238	46.981	-	-	183.755
THIRD	46.868	46.868	43.238	46.981	-	-	183.755
FOURTH	46.868	46.868	43.238	46.981	-	-	183.755
FIFTH	46.868	46.868	43.238	46.981	-	-	183.755
SIXTH	46.868	46.868	43.238	46.981	-	-	183.755
SEVENTH	46.868	46.868	43.238	46.981	-	-	183.755
EIGHT	46.868	46.868	43.238	46.981	-	-	183.755
NINTH	46.868	46.868	43.238	46.981	-	-	183.755
TENTH	46.868	46.868	43.238	46.981	-	-	183.755
ELEVENTH	46.868	46.868	43.238	46.981	-	-	183.755
TWEVLETH	46.868	46.868	43.238	46.981	-	-	183.755
THIRTEEN	46.868	46.868	43.238	46.981	-	-	183.755
FOURTEEN	46.868	46.868	43.238	46.981	-	-	183.755
MUMTY	41.831	41.831	47.678	48.959	-	-	180.299
MACHINE RM.	32.121	32.121	32.121	32.121	-	-	128.484
WATER TANK	38.758	38.758	34.749	38.328	-	-	150.593
TOTAL	818.318	818.318	766.298	825.919	10.00	49.20	3288.053

DENSITY ACHIEVED:-

FLOORS	BLOCK A	BLOCK B	BLOCK C	BLOCK D	TOTAL
GROUND	03	03	04	04	18
FIRST	06	06	06	06	24
SECOND	06	06	08	08	28
THIRD	06	06	08	08	28
FOURTH	06	06	08	08	28
FIFTH	06	06	08	08	28
SIXTH	06	06	08	08	28
SEVENTH	06	06	08	08	28
EIGHTH	06	06	08	08	28
NINTH	06	06	08	08	28
TENTH	06	06	08	08	28
ELEVENTH	06	06	08	08	28
TWEVLETH	06	06	08	08	28
THIRTEEN	06	06	08	08	28
FOURTEEN	06	06	08	08	28
TOTAL	87	87	116	116	406

DENSITY ACHIEVED:-

TYPE-A = 84 UNITS

TYPE-B = 90 UNITS

TYPE-C = 56 UNITS

TYPE-D = 86 UNITS

TYPE-E = 90 UNITS

TOTAL = 406 UNITS

DW. UNITS PERMISSIBLE = 140 DU PER HECTARE ±5%

$= \frac{16140.48 \times 140}{10000} + 5\%$

= 225.96 + 5 %

= 237 UNITS

INCREASE @ PROPORTIONATE INCREASE IN FAR

$= 237 + \frac{125 \times 237}{150}$

= 237 + 198

= 435

PROPOSED DW. UNITS = 406

TOTAL POPULATION = 406 X 4.5 = 1827 PERSONS

AREA CALCULATION

Total Plot Area	=	16140.480 Sqm
Permissible Gr. Coverage @ 35%	=	5649.168 Sqm
Permissible FAR @ 2.75	=	44386.320 Sqm

Proposed Ground Coverage :

BLOCK A	BLOCK B	BLOCK C	BLOCK D	COMMU.	GUARD	TOTAL
941.027	941.027	636.623	835.790	170.012	10.0	3534.479 SQ.M.

= 3534.479 SQ.M. OR 21.898 %

F.A.R. ACHIEVED :-

FLOORS	BLOCK A	BLOCK B	BLOCK C	BLOCK D	COMU.	TOTAL
GROUND	425.734	425.734	397.361	524.502	607.780	2381.111
FIRST	881.239	881.239	397.361	524.502	448.724	3133.065
SECOND	881.239	881.239	526.773	695.366	-	2984.617
THIRD	881.239	881.239	526.773	695.366	-	2984.617
FOURTH	881.239	881.239	526.773	695.366	-	2984.617
FIFTH	881.239	881.239	526.773	695.366	-	2984.617
SIXTH	881.239	881.239	526.773	695.366	-	2984.617
SEVENTH	881.239	881.239	526.773	695.366	-	2984.617
EIGHTH	881.239	881.239	526.773	695.366	-	2984.617
NINTH	881.239	881.239	526.773	695.366	-	2984.617
TENTH	881.239	881.239	526.773	695.366	-	2984.617
ELEVENTH	881.239	881.239	526.773	695.366	-	2984.617
TWEVLETH	881.239	881.239	526.773	695.366	-	2984.617
THIRTEENTH	881.239	881.239	526.773	695.366	-	2984.617
FOURTEENTH	881.239	881.239	526.773	695.366	-	2984.617
TOTAL						44314.197 SQ.M. OR 2.745

AREA OF STILTS = TYPE (A2x6)-

= A (151.835X6)

= 911.01 SQ.M.

PARKING CALCULATIONS:-

EQUIVALENT CAR SPACE (E.C.S)REQUIRED

= F.A.R. AREA / 80

= 44396.32 / 80 = 554.829 E.C.S.

MECHANICAL CAR PARKING SPACE PROVIDED IN BASEMENT AREA:-

11475.008 SQ.M. OR (11475.008/18) = 637 E.C.S.

CAR PARKING SPACE PROVIDED IN STILTS AREA:-

=911.10 SQ.M. (911.01/30) = 30.0 E.C.S.

TOTAL CAR PARKING PROVIDED = 637 + 30 = 667 E.C.S.

LANDSCAPING CALCULATIONS:-

OPEN AREA=[PLOT AREA - (GROUND COVG.)

= (16140.48) - (3534.479)

= 12606.001 SQ.M.

GREEN AREA REQUIRED = 12606.001 / 2 = 6303.00 SQ.M.

PROPOSED SOFT LANDSCAPED AREA :-

= [(1)+(2)+(3X2)+(4X2)+(5)+(6)+(7)+(8)+(9)+(10)+(11)+(12)+(13)+(14)+ (15)+(16)+(17)+(18) -(RAMP AREA +STAIRCASE AREA)

=[(14(1.163X39.98)+2(19.241X42.11)+3(27.298X27.542)+4(59.022X3.0X2)+5(6.801X9.47)+(65.560X10.16)

+7(7.015X9.22)+8(4.855X4.73)+9(16.160X7.225)+10(6.801X9.11)+11(4.095X8.6)+12(3.95X4.73)

+13(8.98X6.47)+14(6.780X8.14)+15(6.226X6.47)+16(10.659 X12.34)+17(6.87X10.26)

+18(5.839X10.71)+19(21.922X28.14)+20(136.0X4.0)+21(4.0X111.68)]-[(23.535.26X2.0)+(3.339X2.46X2)+(3.46X4.43X2)]

=[(1(645.696)+2(810.239)+3(1504.774)+4(354.121)+5(64.405)+6(56.495)+7(64.678)+8(22.941)+9(47.586)+10(61.889)+11(35.174)+12(18.684)

+13(58.137)+14(55.189)+15(40.372)+16(131.532)+17(70.486)+18(62.536)+19(616.885)+20(544.00)+21 (446.72)] -(294.259)

=[(57.213)-(294.259)]

= 6715.633 SQ.M.

PERMISSIBLE NO. OF TREES = OPEN AREA / 100 TREE PER 100 SQ.M.

= 12606.001 / 100 = 126.06 TREES

PROPOSED TREES =140 NO.: EVERGREEN TREES (GULMOHAR & NEEM)

TOTAL ELECTRICAL LOAD = 1973 K.W.

PROJECT:-

GROUP HOUSING FOR
GREEN VIEW-II SAHAKARI AWAS SAMITI LTD.
PLOT NO.4, CHOROSIA ESTATE, SECTOR-PI, GREATER NOIDA. (U.P.)

SIGNING AUTHORITY

GREEN VIEW-II SAHAKARI AWAS SAMITI LTD.
President

ARCHITECT'S SIGN

M. N. ANDLEY
B. ARCH. F.I.I.A., F.I.V.
ARCHITECT CA/78-1961

REVISED SUBMISSION DRAWING

DRG. TITLE:- LAYOUT PLAN

SCALE:-1:400 | DRG. NO.:-01

DLT.BY:- | DATE:-18/02/2013

NORTH

ARCHITECTS:-
M. N. ANDLEY B.ARCH. F.I.I.A. F.I.V.
ANDLEYS ASSOCIATES PVT
ARCHITECTS ENGINEERS
39 HOUSING SOCIETY N.D.S.E.-I NEW D