



TRANSFORMER CAPACITY & DG & CAPACITY

ELECTRICAL LOAD

11.2 ACRES 5.38 ACRES 16.58ACRES

Area/Unit

ESS-1

1 TOWER - F-1 (0-20)

ONE UNIT

30H-+2T (1000)

30H-+2T (1020)

30H-+2T (1050)

LR Load

Common Area load

Total Load -Tower(F-1)

TOWER - F-2 (0-22)

ONE UNIT

30H-+2T (1000)

30H-+2T (1020)

30H-+2T (1050)

LR Load

Common Area load

Total Load -Tower(F-2)

TOWER - F-3 (0-22)

ONE UNIT

30H-+2T (1000)

30H-+2T (1020)

30H-+2T (1050)

LR Load

Common Area load

Total Load -Tower(F-3)

TOWER - F-4 (0-22)

ONE UNIT

30H-+2T (1000)

30H-+2T (1020)

30H-+2T (1050)

LR Load

Common Area load

Total Load -Tower(F-4)

TOWER - S-1 (0-22)

ONE UNIT

30H-+2T (1000)

30H-+2T (1020)

30H-+2T (1050)

LR Load

Common Area load

Total Load -Tower(S-1)

TOWER - S-2 (0-22)

ONE UNIT

30H-+2T (1000)

30H-+2T (1020)

30H-+2T (1050)

LR Load

Common Area load

Total Load -Tower(S-2)

TOTAL

VILLAS B (200 SQ YARD)

VILLAS A (200 SQ YARD)

LUXURY VILLAS (F-1-F-2)

PARVING-Basement

VENTILATION

PARVING

EXTERNAL LIGHTING

JOKEY PUMP

CLUB

TOTAL (0-VIS)

AREA OF EACH FLAT (SQM)	AREA OF EACH FLAT (SQFT)	LOAD TANKER ( WDGFT )	LOAD TANKER ( WDGFT )	TOTAL LOAD OF ONE UNIT(kw)	NUMBER OF UNITS	TOTAL LOAD IN (kw)	Diversity	Operating Load (kw)
88.12	711	4.05	3.21	110	307	336	50%	168
55.20	462	4.05	4.02	30	301	90	50%	45
41.51	347	4.05	2.58	174	201	341	50%	170
490.08	4000	0.25	8.71	2	17	75	75%	37
			12.50	1	13	75%	9	9
					1188			602
88.12	711	4.05	3.21	110	307	336	50%	168
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TOTAL FOR	6880	3276
Overall Diversity	95%	3581
Total connected load after diversity factor		3581
Assessing for sizing of transformer capacity		
a) Max demand		3581
b) Power factor	0.8	3425
c) Loading factor	85%	3883
Capacity of transformer	Say	4000.0
Use of transformer of 2000 KVA capacity +2 nos		

One no sub-station has been recommended  
Having 2nos transformer of capacity 33KV/415 VOLT -2000 KVA

Assessing for sizing of DG set capacity

OVERALL DIVERSITY	60%	1948
a) Max demand		1948
b) Power factor	0.85	2283
c) Loading factor	90%	2535
Capacity of DG SET		
Use of DG SET of 4X3000KVA +1X500 KVA		

ESS-2

1 TOWER F-1 (0-20)

ONE UNIT

30H-+2T (1000)

30H-+2T (1020)

30H-+2T (1050)

LR Load

Common Area load

Total Load -Tower(F-1)

TOWER - F-2 (0-22)

ONE UNIT

30H-+2T (1000)

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LR Load

Common Area load

Total Load -Tower(F-3)

TOWER - F-4 (0-22)

ONE UNIT

30H-+2T (1000)

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LR Load

Common Area load

Total Load -Tower(F-4)

TOWER - S-1 (0-22)

ONE UNIT

30H-+2T (1000)

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VILLAS A (200 SQ YARD)

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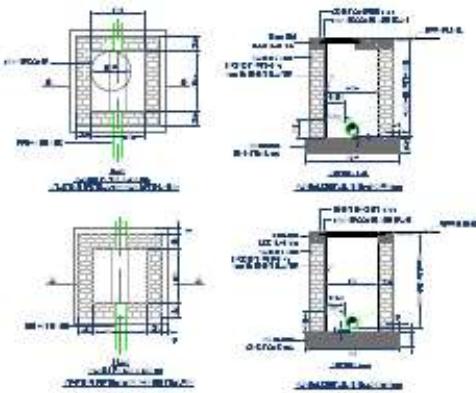
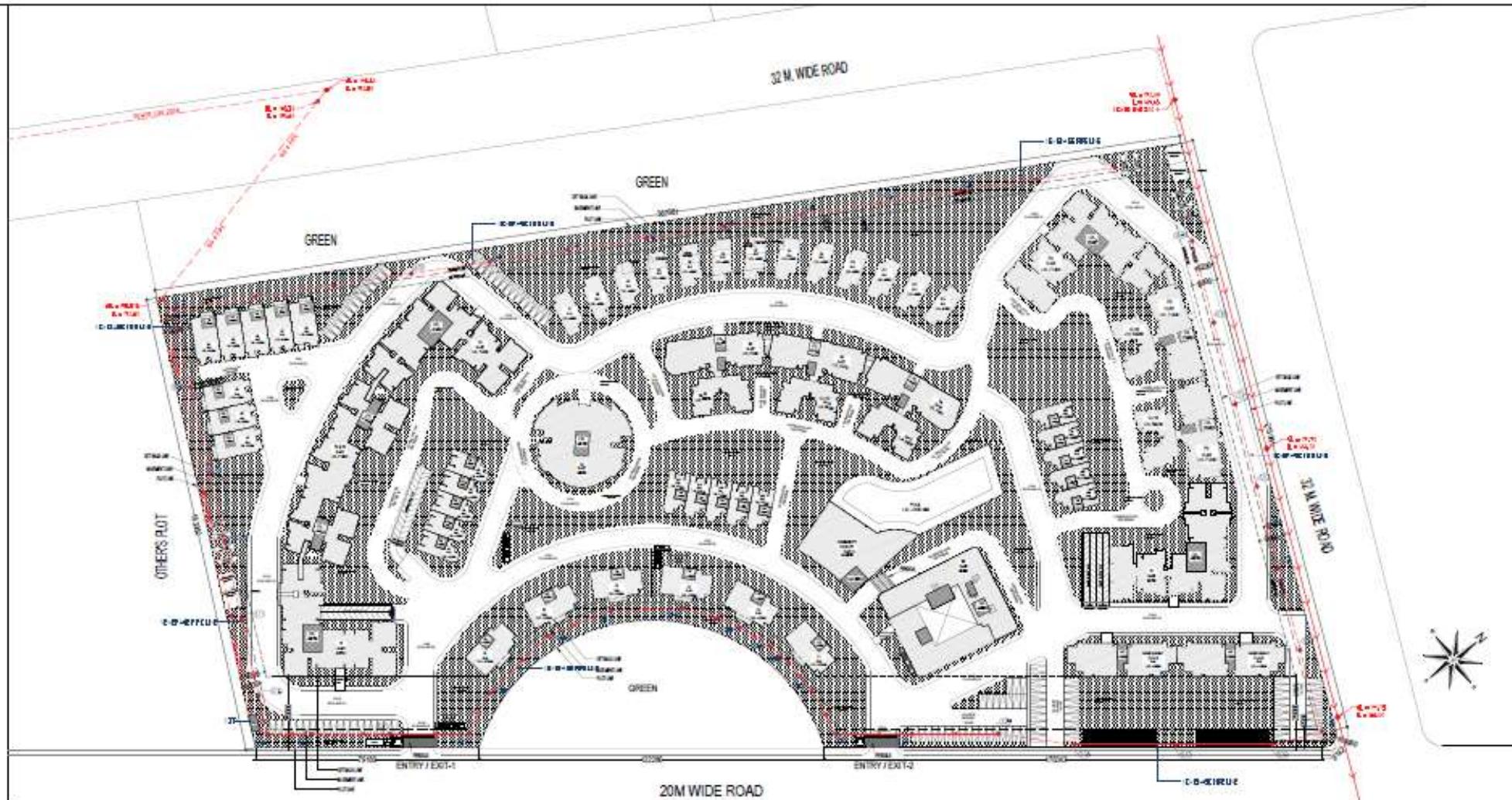


TABLE 1: SEWER LINE SIZES

NO.	SEWER LINE	DEPTH
1	150mm	1.0m
2	200mm	1.5m

NOTE:-  
INTERNAL SEWER LINE SLOPE = 1:400

PREPARED BY: <b>MR. S. S. SURESH</b> CHECKED BY: <b>MR. S. S. SURESH</b> DATE: <b>10/10/2023</b>			
NO.	REV.	DATE	BY
PROJECT TITLE: <b>RESIDENTIAL DEVELOPMENT</b> CLIENT: <b>MR. S. S. SURESH</b> ADDRESS: <b>...</b>			
<b>CONFORMANCE</b> TO THE REQUIREMENTS OF THE MUNICIPALITY OF ...			
SUBMISSION DRAWING <b>MR. S. S. SURESH PVT. LTD.</b> PROJECT NO: <b>...</b> DRAWING NO: <b>...</b> SCALE: <b>...</b> DATE: <b>...</b>			
MASTER PLAN SHEET NO: <b>...</b>			
 <b>Conformance</b>			
THE COMPANY'S LIABILITY IS LIMITED TO THE SCOPE OF THE CONTRACT AND DOES NOT EXTEND TO ANY OTHER MATTER. © 2023			



