

Muck Management Plan

Name of work :- C/o Bhaba Mud Sagnum attargoo Road Km 0/00 to 44/400.

	Rock/Boulder (Blast work) Cum	Soil (Pick /Jumper work) Cum.
1	57480	75720
	Total quantity of Muck Gennerated During construction	133200
S No.	Description of item	Quantity
1	Deduction for usefull stone as required under clause of aggrement to be executed by The Executive Engineer of Project Implementing unit diversion in Behalf of Govt. of H.P. for using in project(credit for useful stones to be obtained from cutting i.e. 1/3 rd quantity of hard blasting 57480/3	19160
	Net balance quantity debries/muck	114040
2	Additional quantity available on site with swell factor @ 40% on P.W. and J.W. (75720x40%)=30288	30288
	Add quantity available on site with swell factor @25% on blast work=(57480-19160)=38320	9580
	Grand total(A)	153908
3	Less of material required for the construction of dumping in Dry masonry/ wire crates @ 10%	15390.8
4	Less of material required for the eveling work of road @ 20%	30781.6
5	Less of material/ Muck required for the filling leveling of proposed road on the analogy of half cutting and half filling @ 40%	61563.2
	Grand Total (B)	107735.6
6	Material/ muck left in the site which required carriage for proper dumping at the recognised site as per the instruction of forest and enviornment Ministry reinforced by various judgement of Apex Court Govt. of India i.e (A-B)	46172.4
	Draft Designe Proposed for dumping sites D1, D2,D3,D4,D5,D6,D7 & D8 (Attached)	
	Total Number of Proposed Dumping Sites	8
	Total Capacity of Dumping Sites (Cum)	46667.26
	Area in hactare for dumping sites	00-58-88

Assistant Engineer
Project Sub-Division
HPPWD Bhaba Nagar

Divisional Forest Officer,
Sarhan Wildlife Division,
Distr. Shimla (H. P.)

Executive Engineer
HPPWD Division
Karchham at Bhabanag

Deputy Conservator of Forests.
Kinnaur Forest Division at R/Pee H.P.

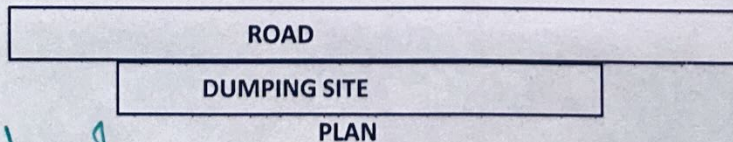
MUCK REHABILITATION PLAN

Road from Bhaba Mud Sagnam Attergoo Km. 00/0 to 44/400 in Distt. Kinnaur (H.P.)

S. No.	Particulars	Measurement	Qty.	Rate	Unit	Amount
1	Providing and laying of boulder apron laid in wire crates with 4 mm dia GI wire confirming to IS: 280 and IS 4826 in 100 mm X 100 mm mesh (woven diagonally) including 10% extra for laps and joints laid with stone boulders weighing not less than 25 Kg. each as per drawing and techicla specifiatiion clause 1301.					
	Dumping 1 (Masrang)	9x(45+15+15)x1.25 X1.25	1054.69	3400	Cum	3585937.5
	Dumping 2 (Masrang)	12x(45+15+15)x1.25 X1.25	1406.25	3400		4781250
	Dumping 3 (Dhar Thuskyo)	11x(45+15+15)x1.25 X1.25	1289.06	3400		4382812.5
	Dumping 4 (Dhar Thuskyo)	12x(45+15+15)x1.25 X1.25	1406.25	3400		4781250
	Dumping 5 (Dhar Thuskyo)	12x(45+15+15)x1.25 X1.25	1406.25	3400		4781250
	Dumping 6 (Dhar Nigyul)	9x(45+15+15)x1.25 X1.25	1054.69	3400		3585937.5
	Dumping 7 (Dhar Nigyul)	9x(45+15+15)x1.25 X1.25	1054.69	3400		3585937.5
	Dumping 8 (Dhar Nigyul)	9x(45+15+15)x1.25 X1.25	1054.69	3400		3585937.5
	Total					33070312.5

Say Rs. 33070313.00

Certified that maximum muck/Debries to be produced during the execution of road will be used locally for soling, wearing, filling behind R/ Wall & road filling in half cutting and half filling pattern.



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Deputy Conservator of Forests,
Kinnaur Forest Division at R.P.O. H.P.

Muck Generation due to excavation work /Cutting Work in road

S. NO	From Km	To Km	Length In meter	Average W(m)	Average Hight In (m)	Total Quantity	Rock/Boulders	Soil
1	0/00	7/000	7000	6	3	21000	8400	12600
2	7/00	10/000	3000	6	1.5	9000	3600	5400
3	10/00	30/400	20400	6	1.2	61200	24480	36720
4	30/400	44/400	14000	6	7	42000	21000	21000
						Total	57480	75720

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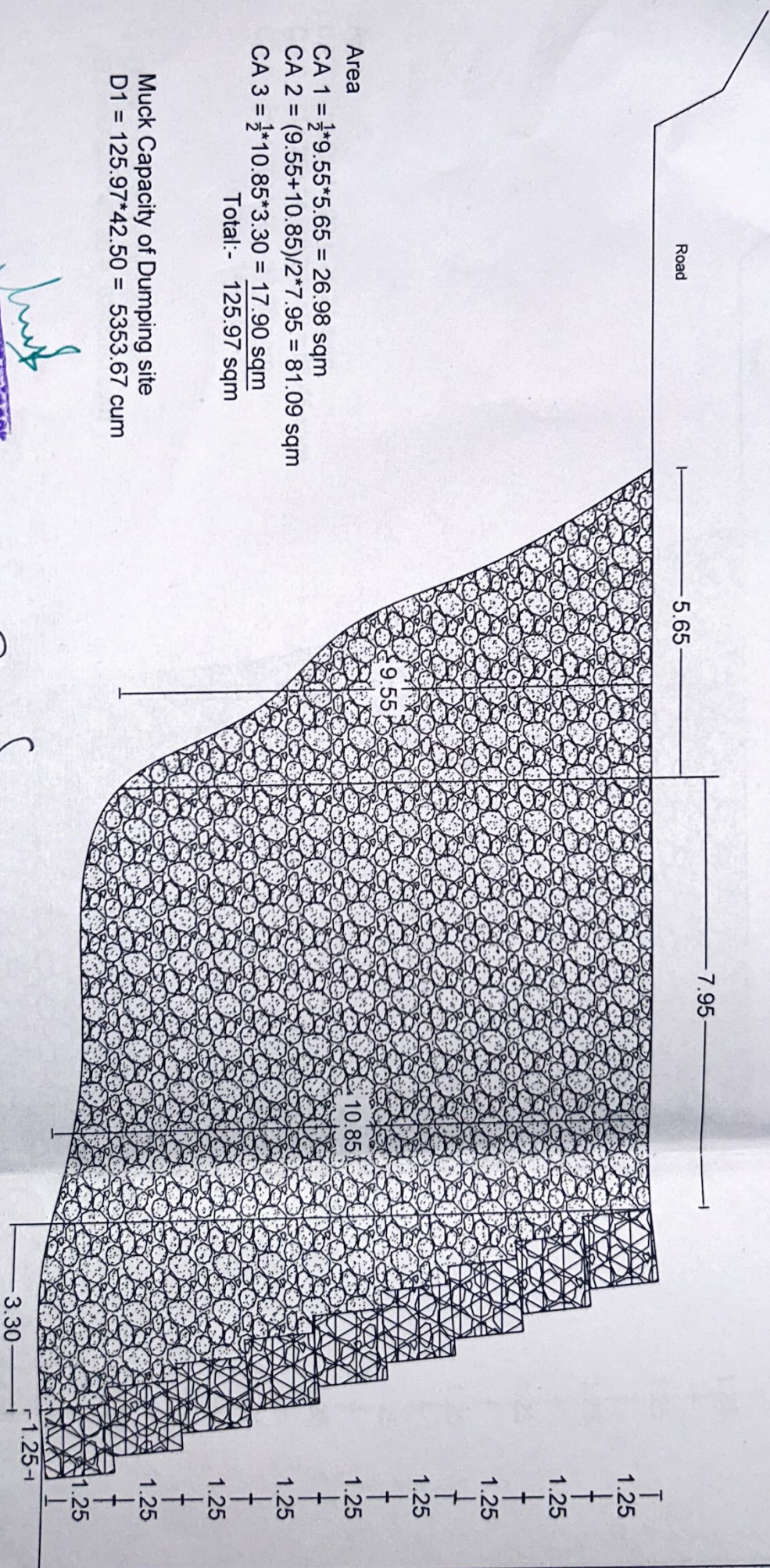
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Deputy Conservator of Forests,
Karchham Forest Division at R/Pro H. P.

Name of work : C/O Bhaba Mud Sagnam Attargo road Km 0/00 to 44/400
(Sub head : Dumping site at RD 1/388)

Scale:- 1:100
All demesion in meter



Area
CA 1 = $\frac{1}{2} \times 9.55 \times 5.65 = 26.98 \text{ sqm}$
CA 2 = $(9.55 + 10.85) / 2 \times 7.95 = 81.09 \text{ sqm}$
CA 3 = $\frac{1}{2} \times 10.85 \times 3.30 = 17.90 \text{ sqm}$
Total:- 125.97 sqm

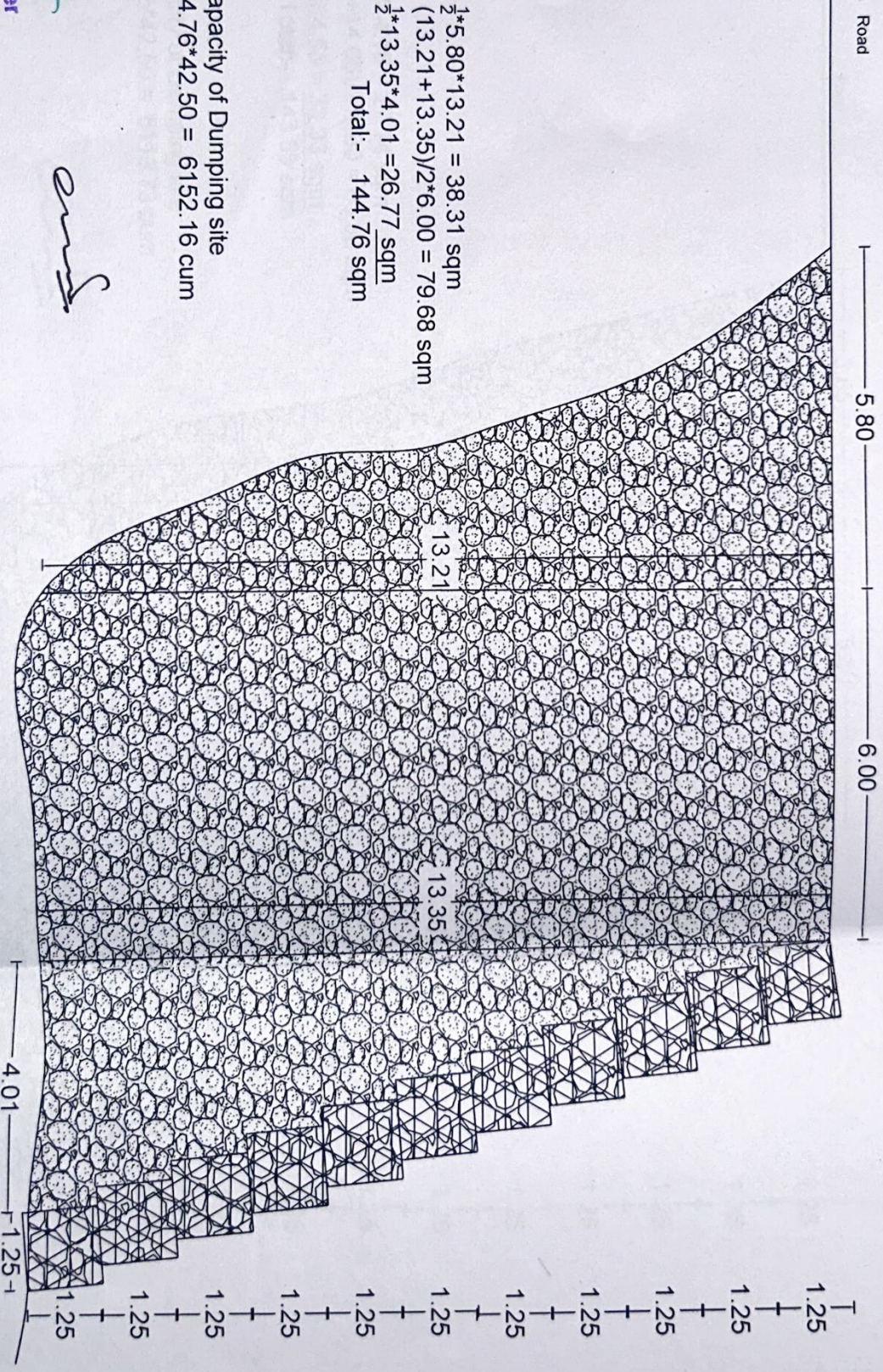
Muck Capacity of Dumping site
D1 = $125.97 \times 42.50 = 5353.67 \text{ cum}$

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HPPWD Bhaba, Nagar

X-Sec at RD 1/388

Name of work : C/O Bhaba Mud Sagnam Attargo road Km U/UU to 44/400
 (Sub head : Dumping site at RD 8/400)

Scale:- 1:100
 All demesion in meter



Area
 CA 1 = $\frac{1}{2} \times 5.80 \times 13.21 = 38.31 \text{ sqm}$
 CA 2 = $(13.21 + 13.35) / 2 \times 6.00 = 79.68 \text{ sqm}$
 CA 3 = $\frac{1}{2} \times 13.35 \times 4.01 = 26.77 \text{ sqm}$
 Total:- 144.76 sqm

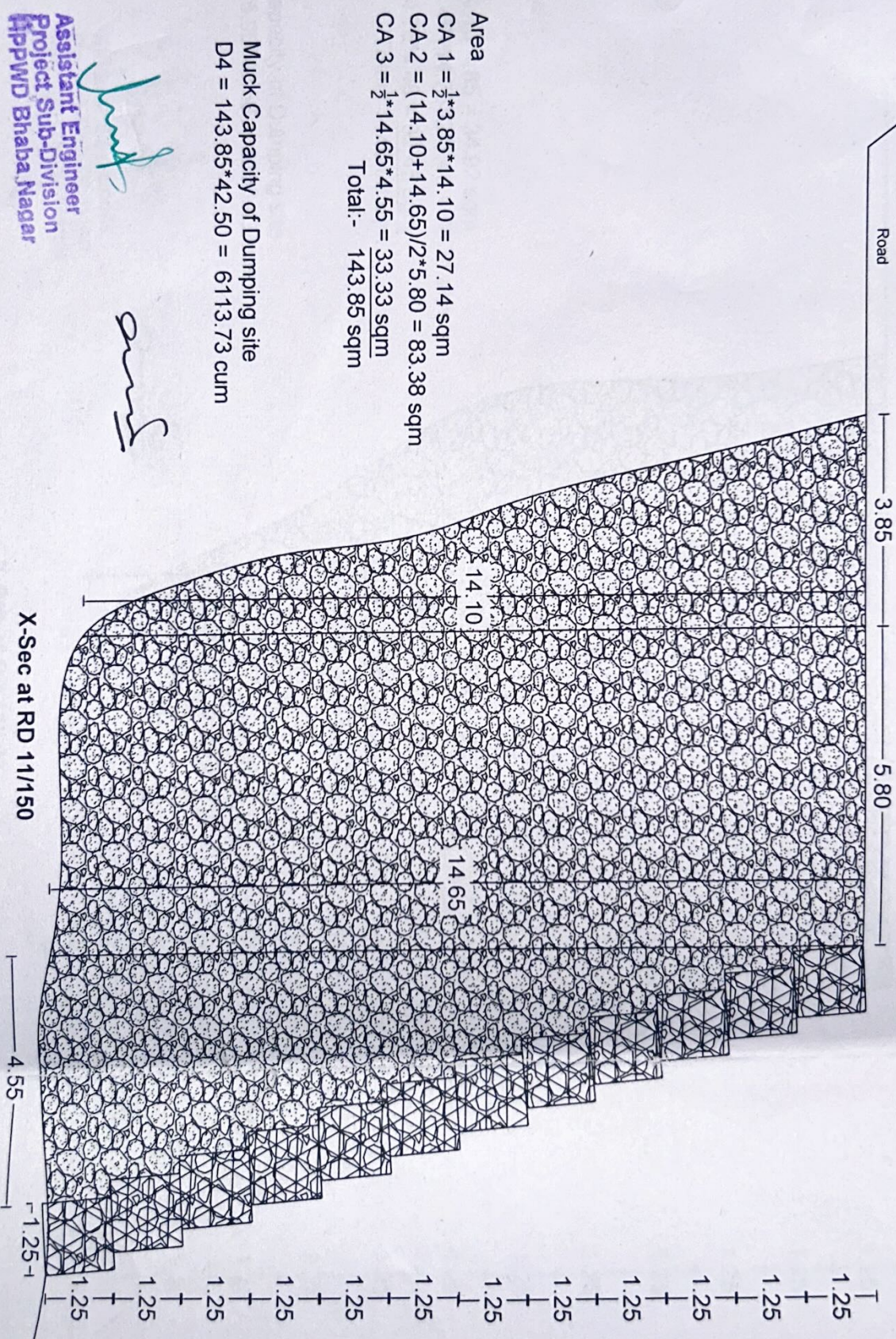
Muck Capacity of Dumping site
 D3 = $144.76 \times 42.50 = 6152.16 \text{ cum}$

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 HPPWD Bhaba Nagar

X-Sec at RD 8/400

Name of work : C/O Bhaba Mud Sagnam Attargo road Km 0/00 to 44/400
(Sub head : Dumping site at RD 11/150)

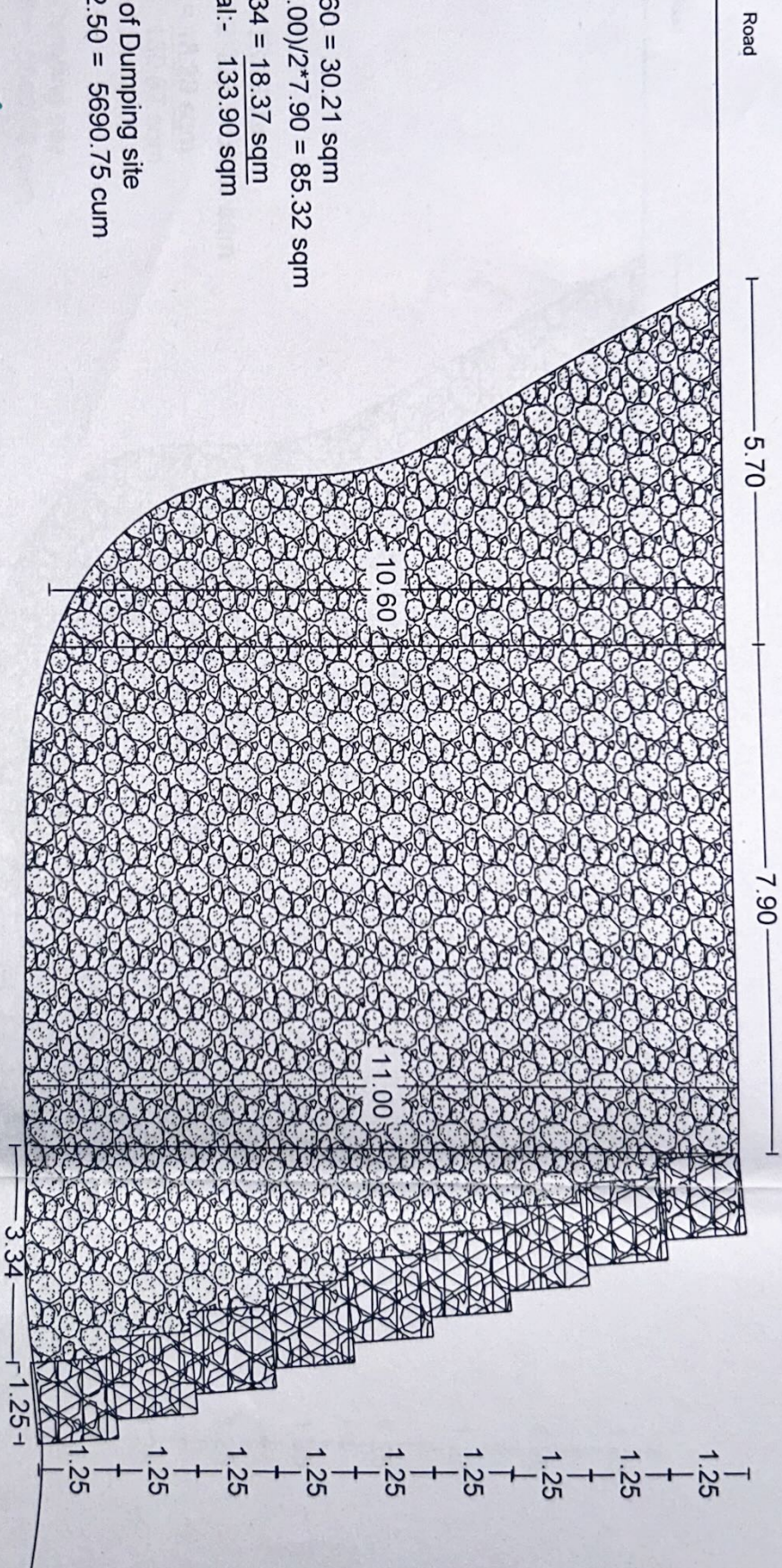
Scale:- 1:100
All demesion in meter



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Name of work : C/O Bhaba Mud Sagnam Attargo road Km 0/00 to 44/400
(Sub head : Dumping site at RD 26/727)

Scale:-1:100
All demession in meter



X-Sec at RD 26/727

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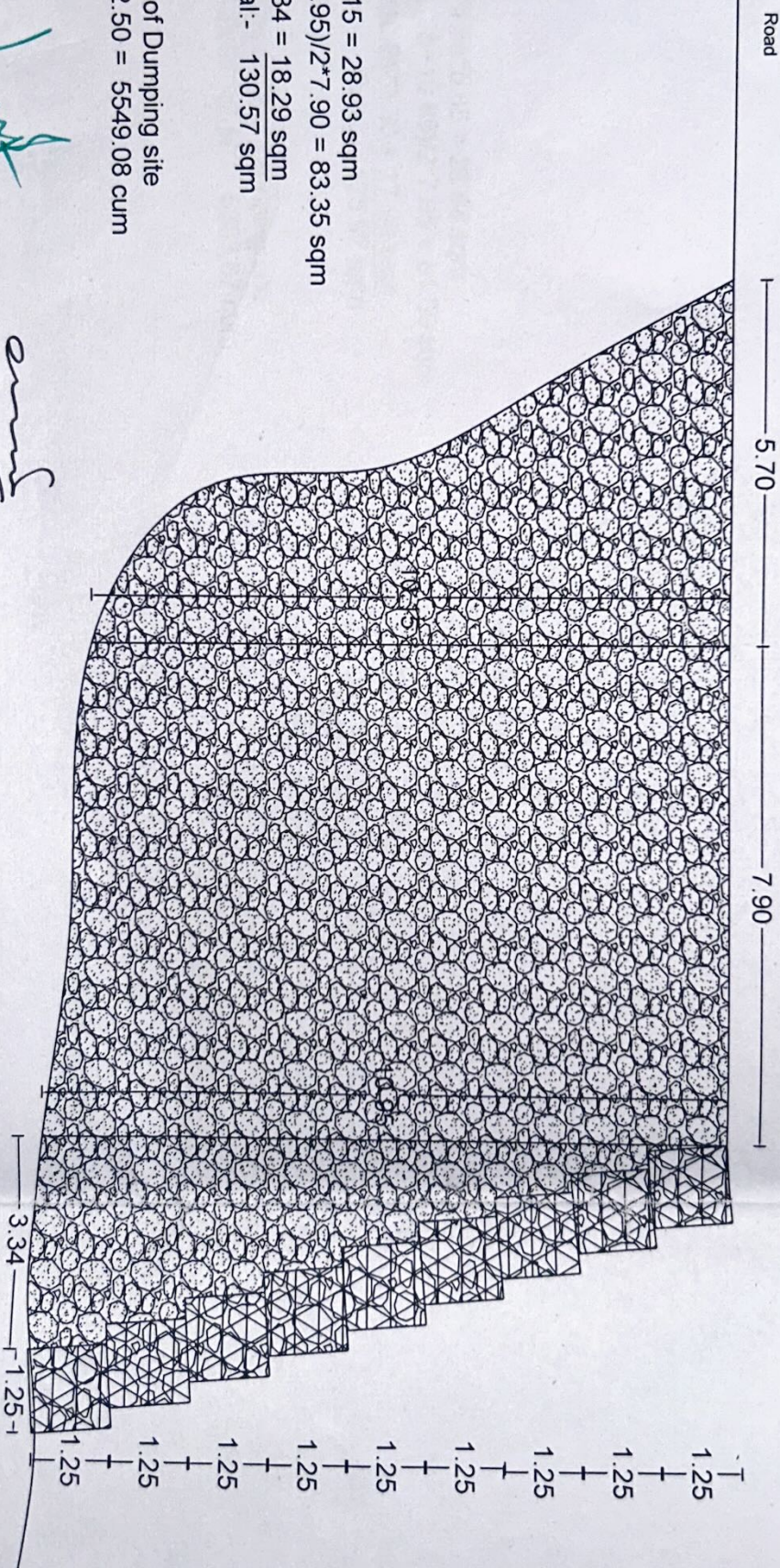
Area
CA 1 = $\frac{1}{2} \times 5.70 \times 10.60 = 30.21 \text{ sqm}$
CA 2 = $(10.60 + 11.00) / 2 \times 7.90 = 85.32 \text{ sqm}$
CA 3 = $\frac{1}{2} \times 11.00 \times 3.34 = 18.37 \text{ sqm}$
Total:- 133.90 sqm

Muck Capacity of Dumping site
D6 = $133.90 \times 42.50 = 5690.75 \text{ cum}$

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Name of work : C/O Bhaba Mud Sagnam Attargo road Km 0/00 to 44/400
(Sub head : Dumping site at RD 26/728)

Scale:- 1:100
All demession in meter



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