

ATTACHED

MAPS & TABLE

I

BASE MAP

II

WORKING MAP

III

NURSERY PLAN

- 1 Lay-out
- 2 Lay-out of nursery beds
- 3 Reservoir
- 4 Watering facilities

IV

FOREST ROAD PLAN

- 1 Planning
- 2 Main forest road

- 1 Plane
- 2 Profile
- 3 Structures plane
- 4 Roadway diagraph

3 Working forest road

- 1 Plane
- 2 Profile
- 3 Structures plane
- 4 Roadway diagraph
- 5 Approach

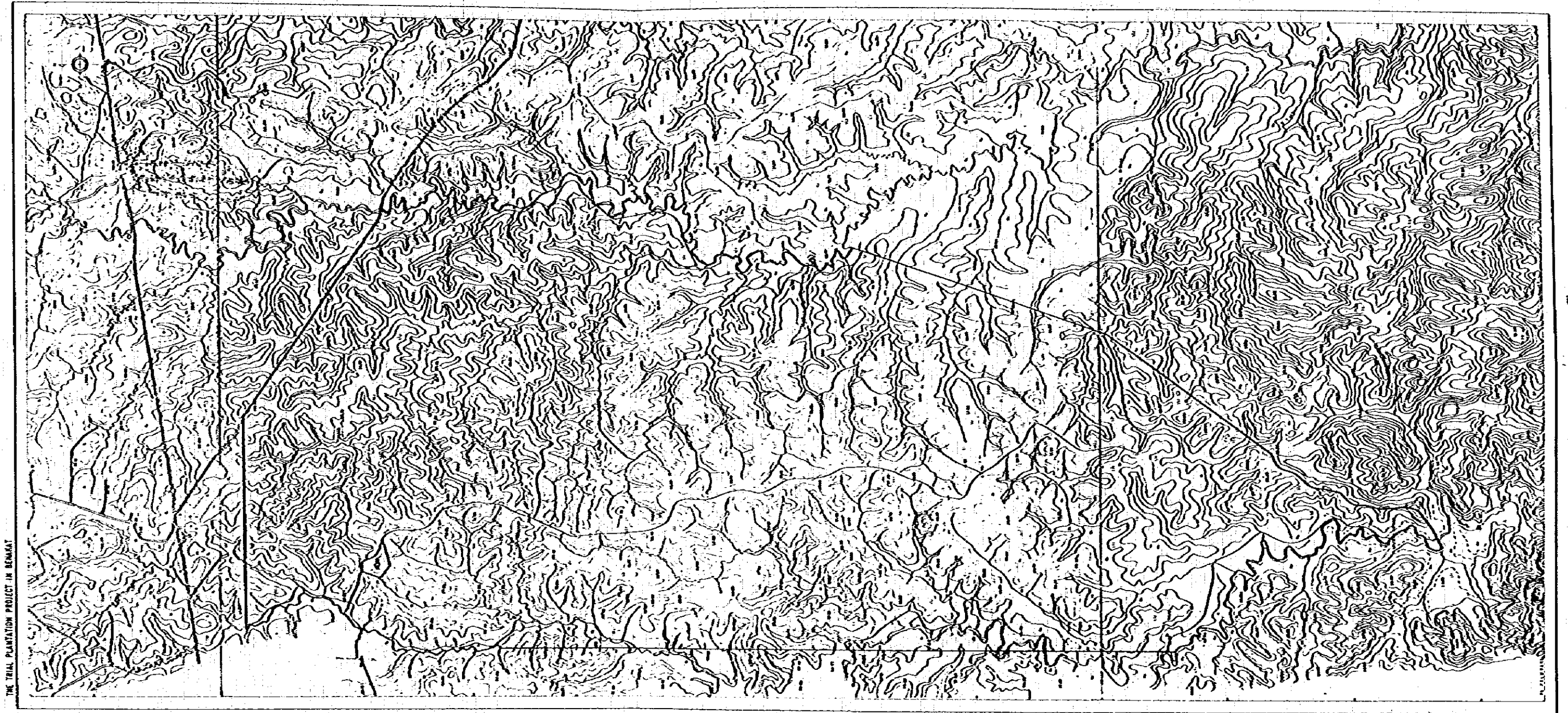
4 Nursery road

- 1 Plane
- 2 Approach

5 Quantity reckoner

V

LOOKOUT TOWER PLAN



THE TRAIL PLANTATION PROJECT IN BENHAT

1 BASE MAP

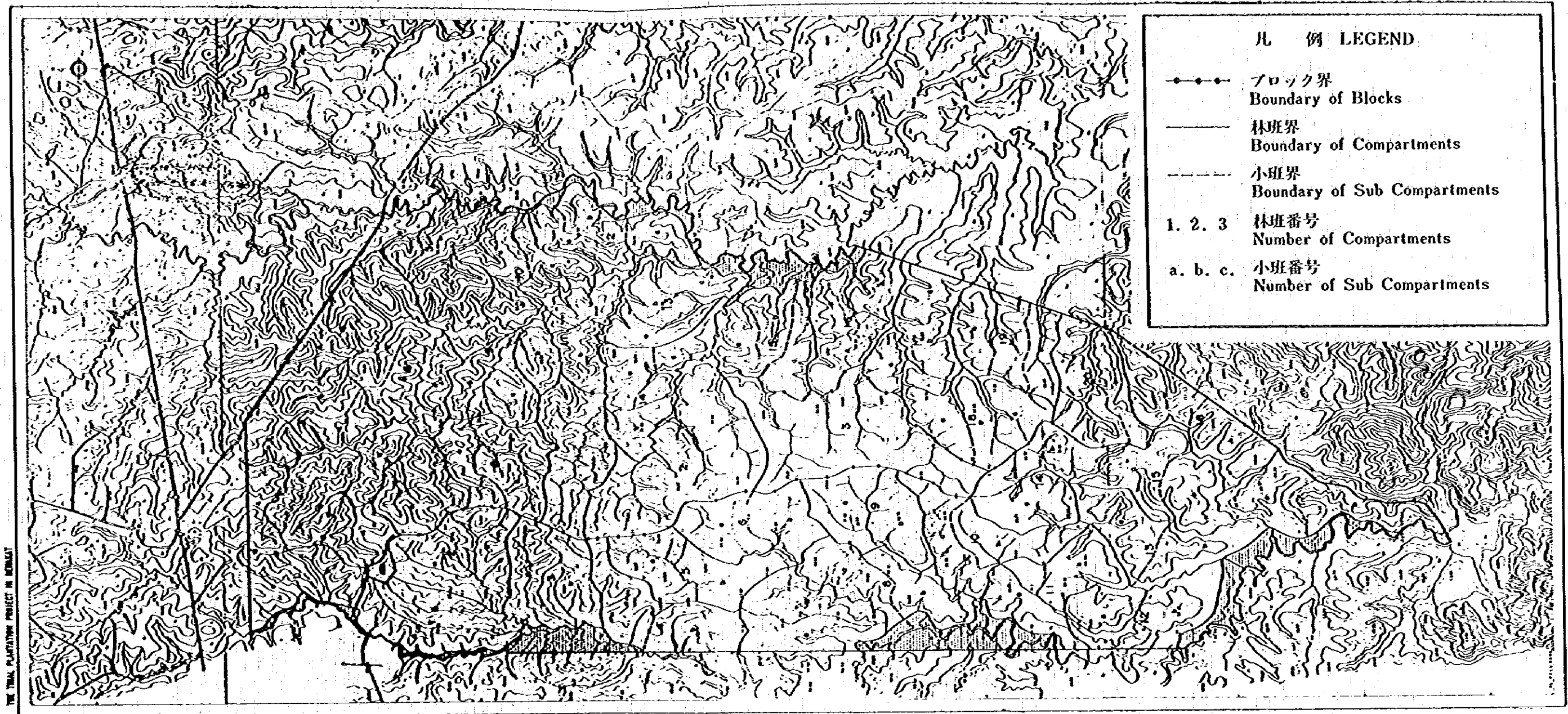


TABLE OF AREA

| BLOCK NO. | COMPARTMENT NO. | TOTAL AREA (Ha) | SUB-COMPARTMENT | | |
|-----------|-----------------|-----------------|-----------------|--------|--------|
| | | | a (Ha) | b (Ha) | c (Ha) |
| A | 1 | 56.3 | 20.8 | 18.8 | 16.7 |
| | 2 | 56.0 | 16.6 | 19.2 | 20.0 |
| | 3 | 57.4 | 19.2 | 20.2 | 18.0 |
| | 4 | 54.8 | 17.7 | 18.0 | 19.1 |
| | 5 | 54.4 | 19.5 | 17.6 | 17.3 |
| | 6 | 54.1 | 16.7 | 18.0 | 19.4 |
| | 7 | 54.2 | 17.6 | 19.8 | 16.8 |
| | 8 | 54.6 | 19.0 | 19.0 | 16.6 |
| | 9 | 54.8 | 19.0 | 17.6 | 18.2 |
| | 10 | 53.6 | 18.8 | 16.7 | 18.1 |
| | 11 | 54.5 | 18.0 | 18.3 | 18.2 |
| | 12 | 50.8 | 17.8 | 16.2 | 16.8 |
| | 13 | 52.8 | 17.8 | 19.0 | 16.0 |
| | 14 | 56.6 | 18.5 | 17.7 | 20.4 |
| | 15 | 55.8 | 19.5 | 17.5 | 18.8 |
| | 16 | 55.9 | 17.5 | 18.8 | 19.6 |
| | 17 | 54.8 | 18.3 | 18.2 | 18.3 |
| | 18 | 56.4 | 18.9 | 18.0 | 19.5 |
| | 19 | 56.6 | 19.8 | 18.5 | 18.3 |
| | 20 | 55.0 | 18.3 | 18.0 | 18.7 |
| | TOTAL | 1,099.4 | 369.3 | 365.1 | 365.0 |

T A B L E O F A R E A

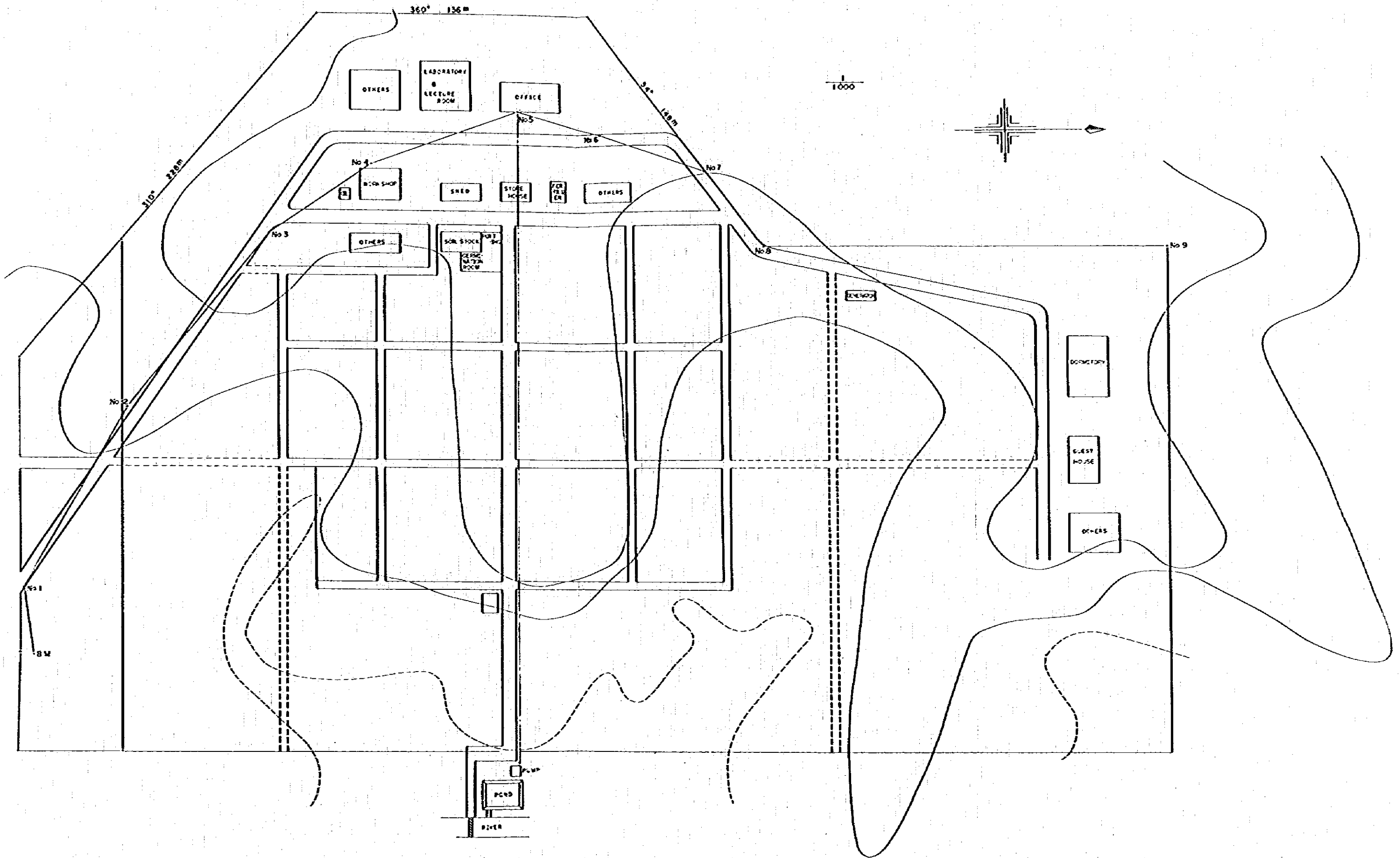
| BLOCK NO. | COMPARTMENT NO. | TOTAL AREA (Ha) | SUB-COMPARTMENT | | |
|----------------------|-----------------|-----------------|-----------------|--------------|--------|
| | | | a (Ha) | b (Ha) | c (Ha) |
| B | 1 | 55.4 | 29.2 | 26.2 | — |
| | 2 | 56.5 | 27.1 | 29.4 | — |
| | 3 | 53.9 | 28.4 | 25.5 | — |
| | 4 | 55.2 | 28.2 | 27.0 | — |
| | 5 | 53.3 | 27.5 | 25.8 | — |
| | 6 | 53.5 | 27.8 | 25.7 | — |
| | 7 | 55.6 | 27.5 | 28.1 | — |
| | 8 | 53.6 | 27.1 | 26.5 | — |
| | 9 | 53.1 | 27.1 | 26.0 | — |
| | 10 | 54.6 | 27.7 | 26.9 | — |
| | 11 | 54.5 | 27.5 | 27.0 | — |
| | 12 | 55.2 | 26.7 | 28.5 | — |
| | 13 | 57.1 | 29.4 | 27.7 | — |
| | 14 | 57.8 | 27.8 | 30.0 | — |
| | 15 | 56.8 | 29.9 | 26.9 | — |
| | 16 | 55.8 | 28.1 | 27.7 | — |
| | 17 | 53.7 | 27.3 | 26.4 | — |
| | TOTAL | 935.6 | 474.3 | 461.3 | — |
| C | 1 | 53.2 | — | — | — |
| | 2 | 112.5 | — | — | — |
| | 3 | 108.3 | — | — | — |
| | TOTAL | 274.0 | — | — | — |
| TOTAL (A+B+C) | | 2309.0 | | | |

T A B L E O F A R E A

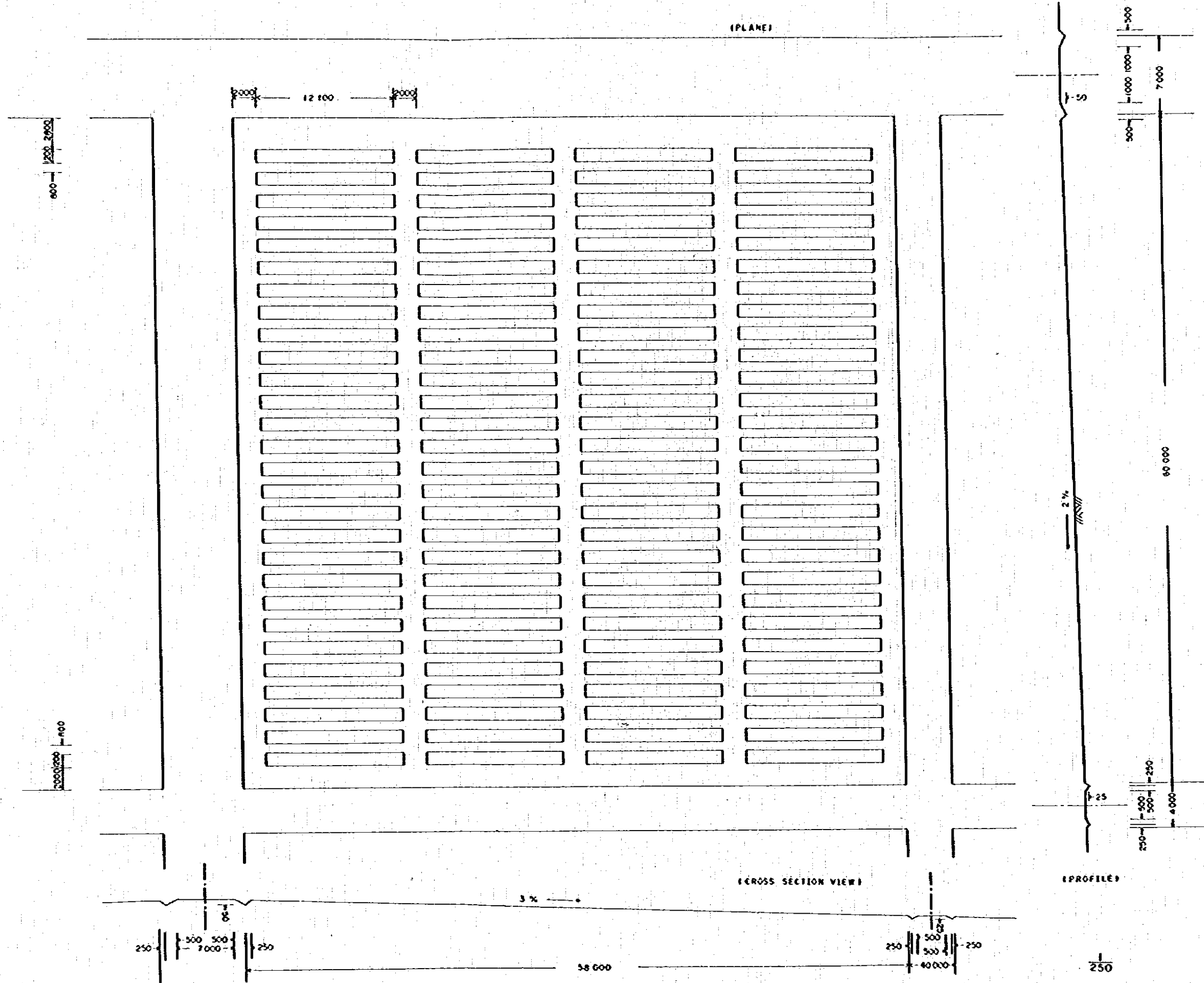
| BLOCK NO. | COMPARTMENT NO. | TOTAL AREA (Ha) | SUB-COMPARTMENT | | |
|--|-----------------|-----------------|-----------------|--------|--------|
| | | | a (Ha) | b (Ha) | c (Ha) |
| OTHERS | Facilities Area | 3.0 | — | — | — |
| | Left-over Area | 132.5 | — | — | — |
| | Total | 135.5 | — | — | — |
| T O T A L | | 2,444.5 | — | — | — |
| <p>* Note :</p> <p>i. The area of "Compartment" and "Sub-compartment" in Block A,B,C, is including the area for forest road and fire break.</p> <p>ii. "Sub-compartment" is the classification according to the number of planted trees.</p> | | | | | |

III-1 LAY-OUT

PLAN OF NURSERY SITE

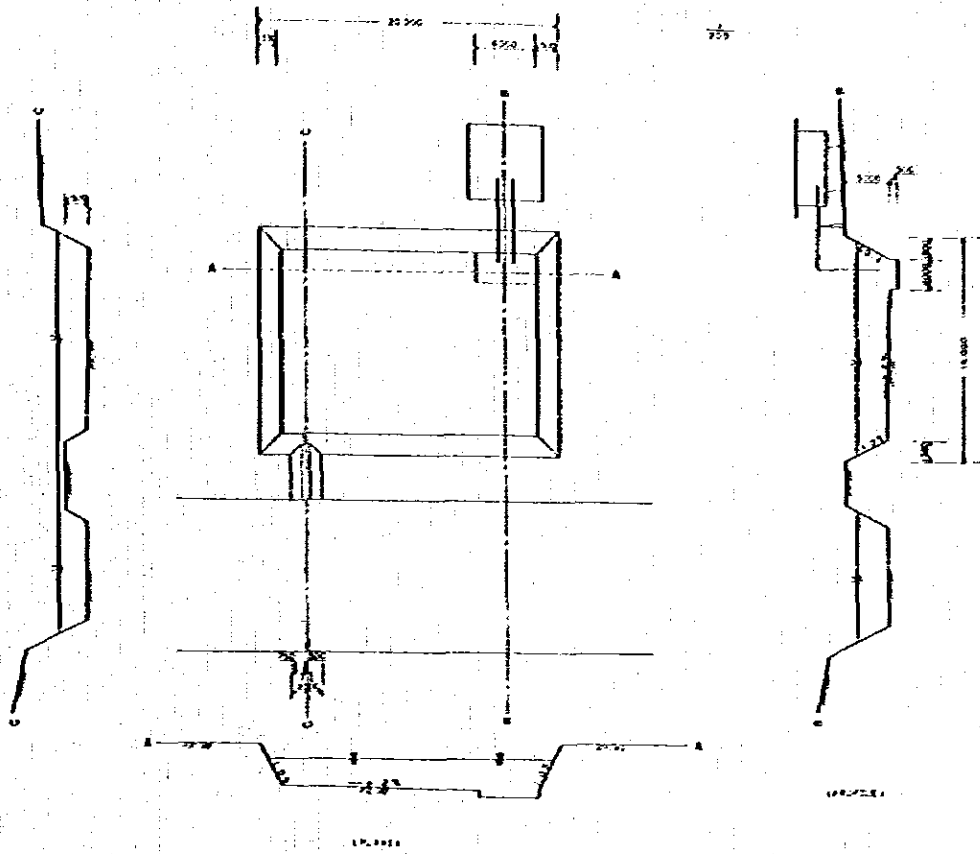


III - 2 LAY-OUT OF NURSERY BEDS



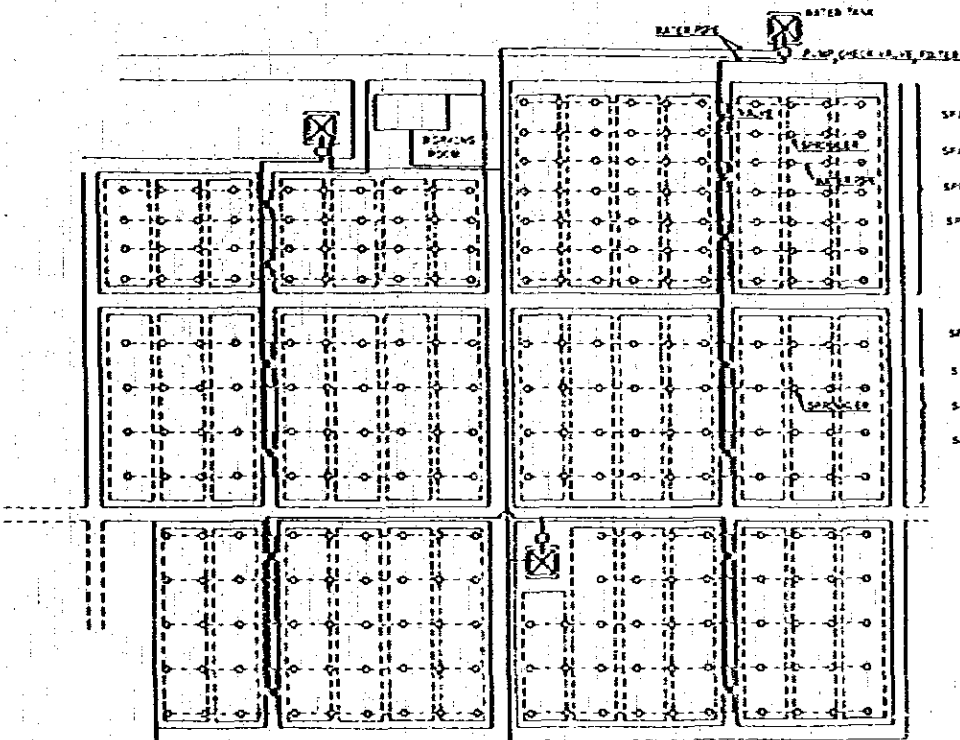
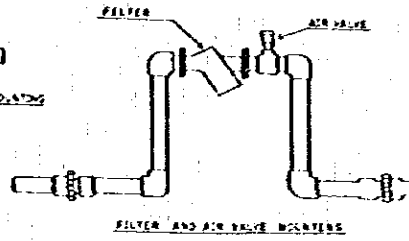
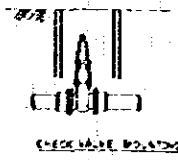
III - 3 RESERVOIR

PLAN OF RESERVOIR



III - 4 WATERING FACILITIES

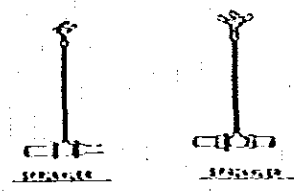
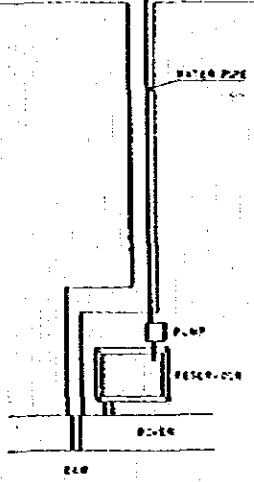
SPRINKLER SYSTEM

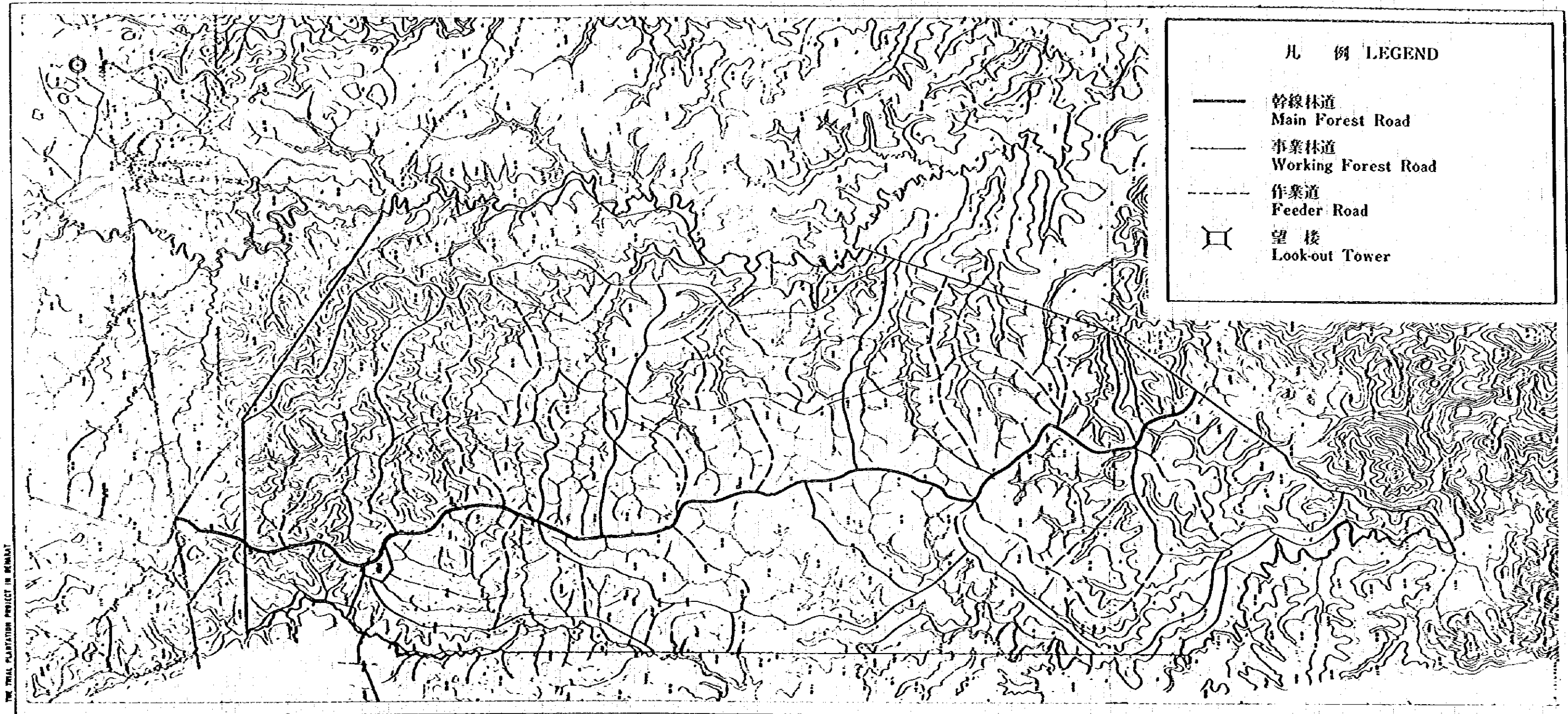


- SPACE BETWEEN SPRINKLER ---- 10M
- SPACE BETWEEN SPRINKLER LINES ---- 12.5M
- SPRINKLING VOLUME ---- 60000
- SPRINKLING RANGE ---- 18M

- SPACE BETWEEN SPRINKLER ---- 10M
- SPACE BETWEEN SPRINKLER LINES ---- 12.5M
- SPRINKLING VOLUME ---- 100000
- SPRINKLING RANGE ---- 18M

SPRINKLER LAYOUT 1/1000





凡 例 LEGEND

| | |
|---------|-----------------------------|
| —— | 幹線林道 Main Forest Road |
| —— | 事業林道 Working Forest Road |
| - - - - | 作業道 Feeder Road |
| □ | 望 楼 Look-out Tower |

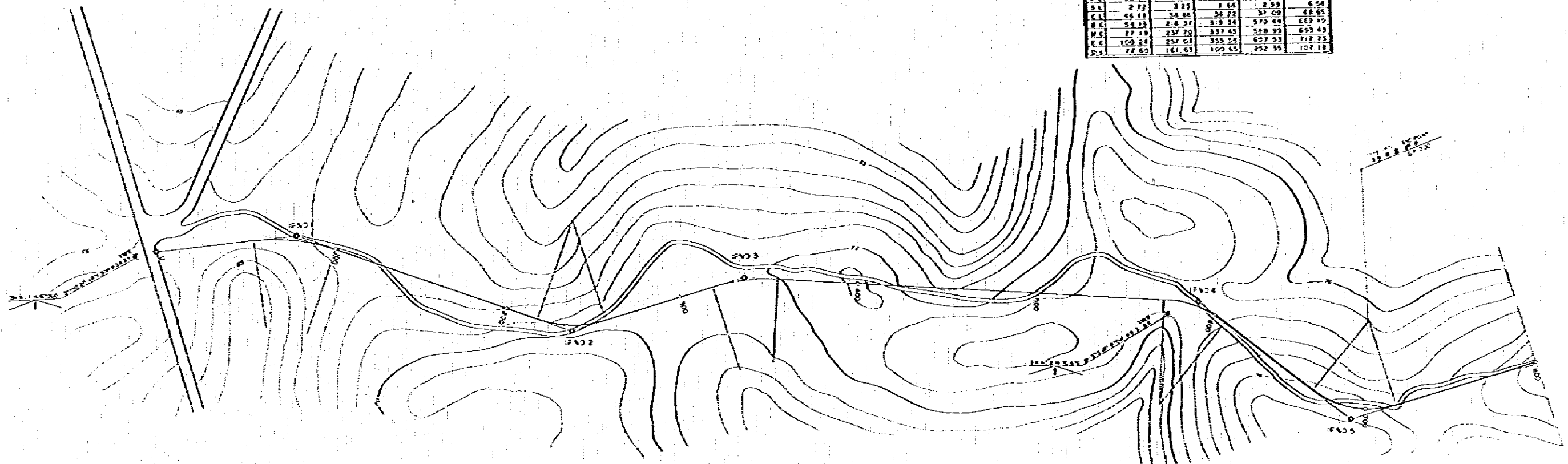
THE TRAIL PLANTATION PROJECT IN HONKAI

IV-1 FOREST ROAD PLANE

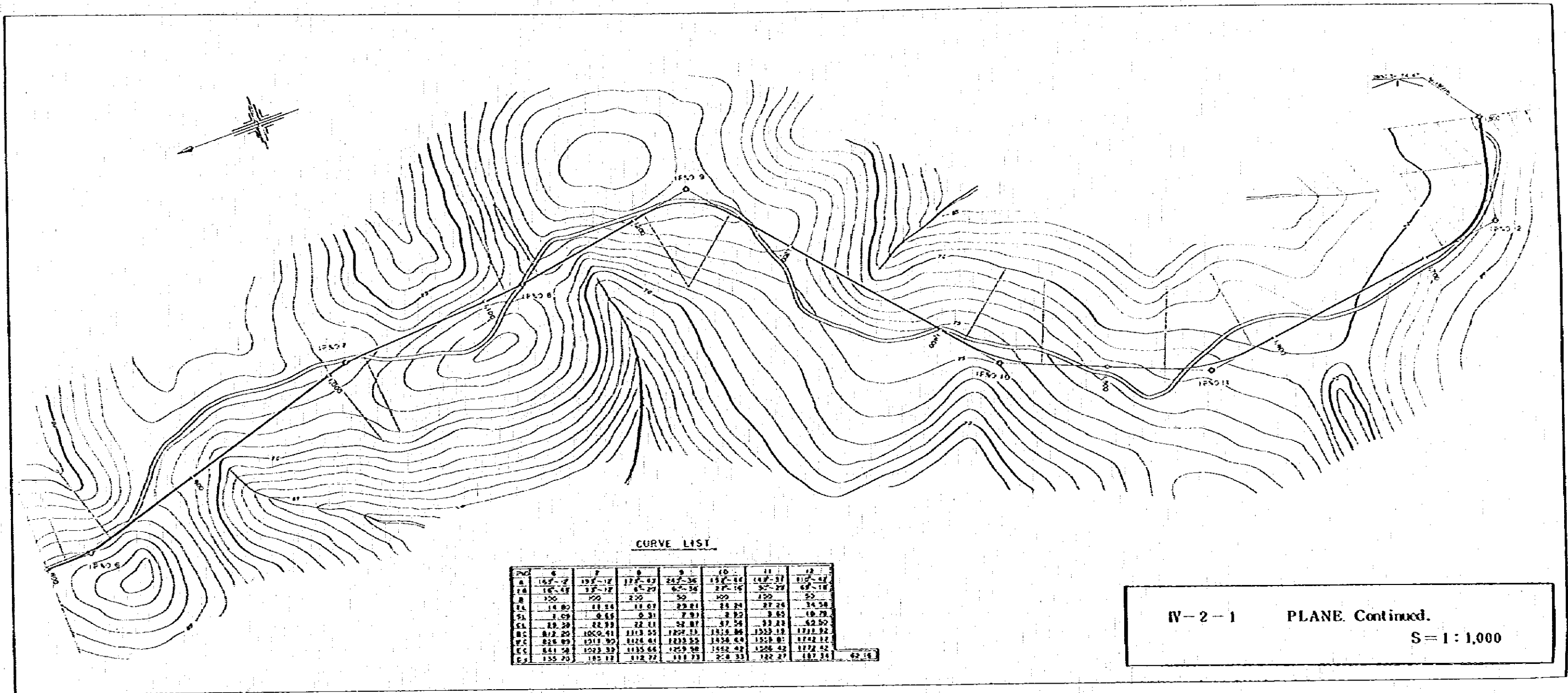


CURVE LIST

| PC | 1 | 2 | 3 | 4 | 5 |
|----|--------|--------|--------|--------|--------|
| TA | 256-26 | 167-55 | 255-45 | 219-24 | 184-15 |
| TB | 256-25 | 35-24 | 25-45 | 35-26 | 55-45 |
| PA | 50 | 47 | 122 | 67 | 50 |
| PI | 23.47 | 25.93 | 18.31 | 18.14 | 26.43 |
| SA | 2.72 | 3.25 | 1.66 | 2.88 | 6.54 |
| CL | 46.18 | 38.66 | 36.72 | 37.09 | 48.65 |
| BC | 58.13 | 2.8.37 | 3.9.34 | 572.48 | 669.42 |
| MC | 27.18 | 237.70 | 837.45 | 569.92 | 693.43 |
| EC | 100.24 | 257.03 | 355.24 | 627.93 | 717.73 |
| ES | 77.62 | 161.63 | 122.65 | 252.35 | 127.18 |



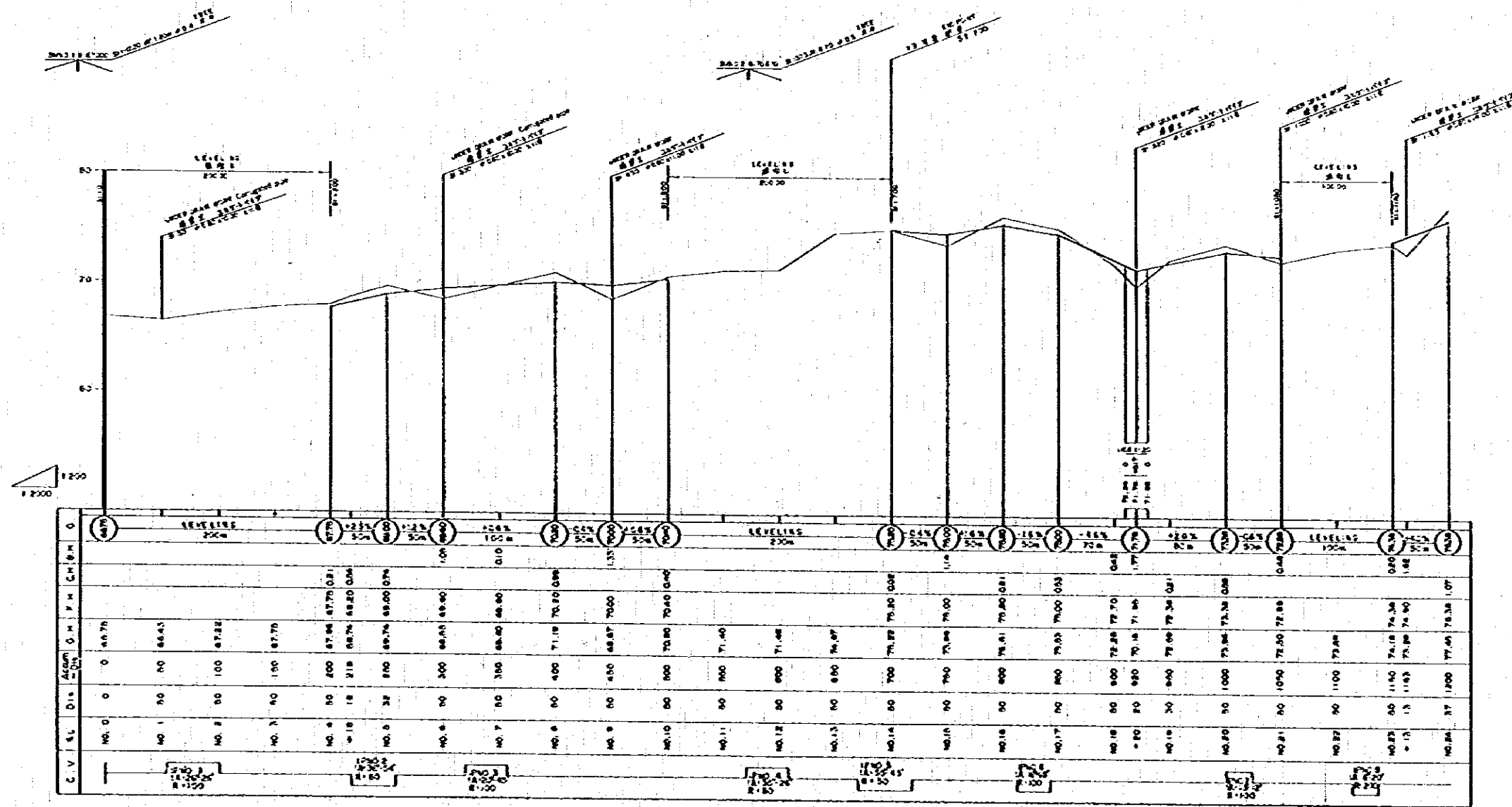
IV-2-1 PLANE. S=1:1,000



CURVE LIST

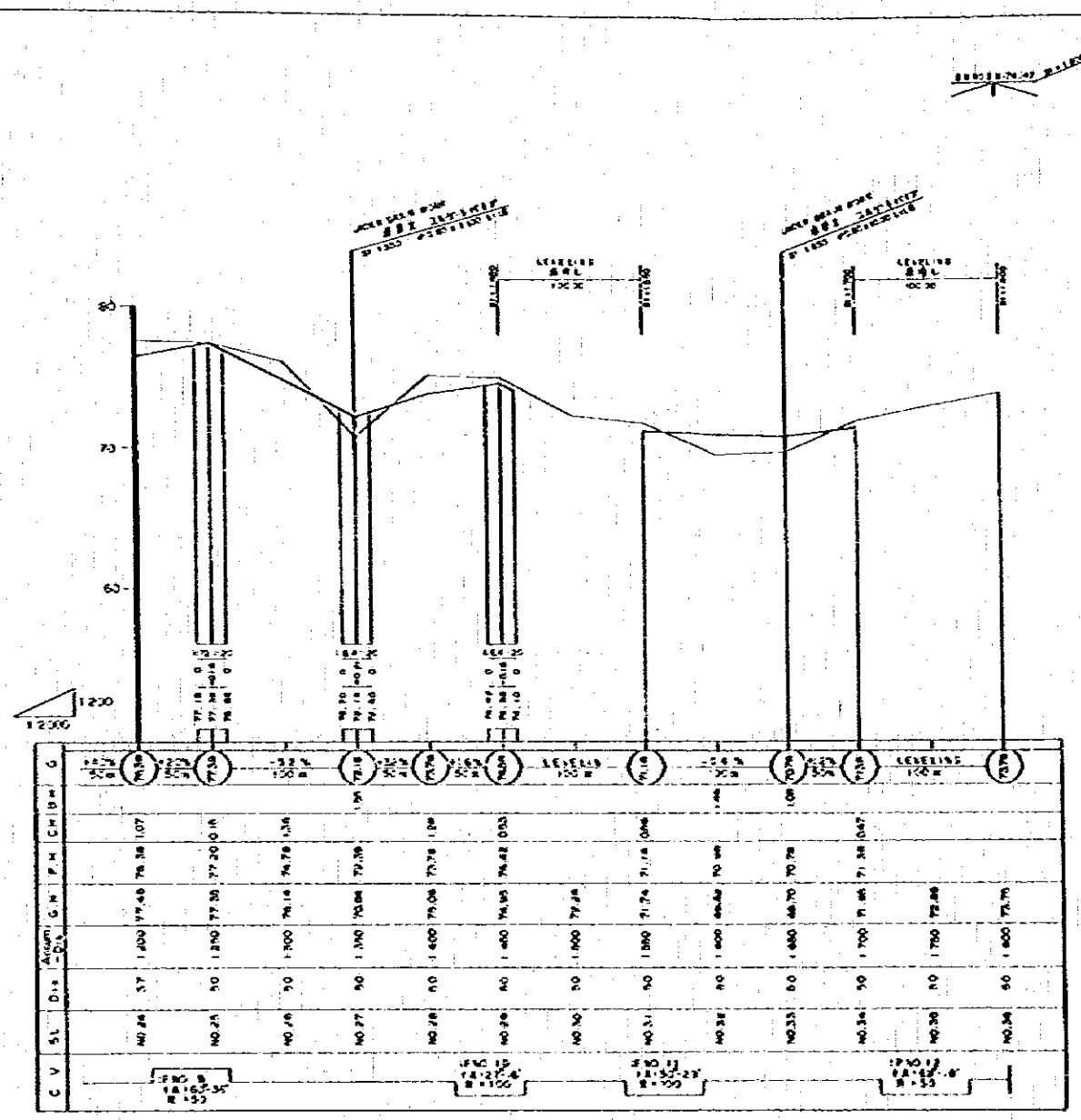
| PC | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|--------|---------|---------|---------|---------|---------|---------|
| TA | 167-27 | 158-18 | 172-03 | 247-36 | 192-44 | 142-37 | 110-42 |
| EA | 167-48 | 157-18 | 65-29 | 65-36 | 27-16 | 32-29 | 69-18 |
| R | 100 | 100 | 200 | 50 | 100 | 100 | 50 |
| LA | 14.80 | 11.24 | 11.07 | 23.21 | 23.24 | 27.25 | 34.34 |
| SL | 1.09 | 0.65 | 0.31 | 7.97 | 2.82 | 3.65 | 19.78 |
| SA | 23.29 | 22.93 | 22.11 | 52.87 | 37.54 | 32.83 | 62.50 |
| BC | 812.20 | 1050.41 | 1113.50 | 1297.13 | 1314.86 | 1323.13 | 1121.52 |
| EC | 841.58 | 1022.39 | 1135.64 | 1259.88 | 1354.69 | 1358.82 | 1142.12 |
| CA | 159.20 | 182.17 | 112.72 | 118.73 | 200.33 | 122.27 | 187.34 |

IV-2-1 PLANE. Continued.
S = 1 : 1,000



IV-2-2 PROFILE

S= 1:200
1:2000

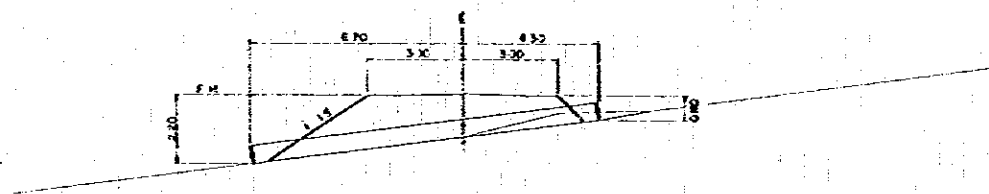


IV-2-2 PROFILE Continued.
 S=1:200
 1:2000

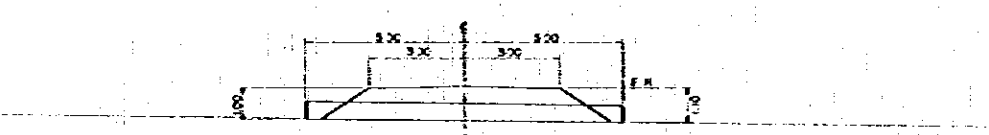
UNDER DRAIN WORK Corrugated pipe
暗渠工 (コルゲートパイプ)

CROSS SECTIONAL VIEW
横断面図

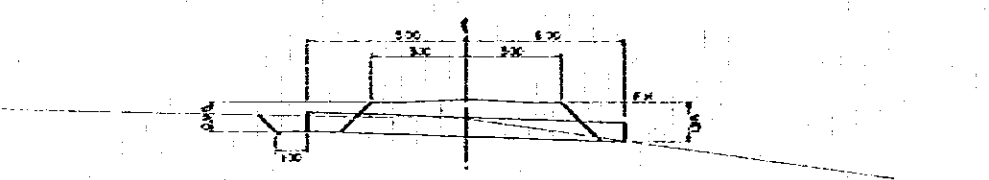
SP-450 38Y-1.81Z
#060 L-300 T-16 S=1:100



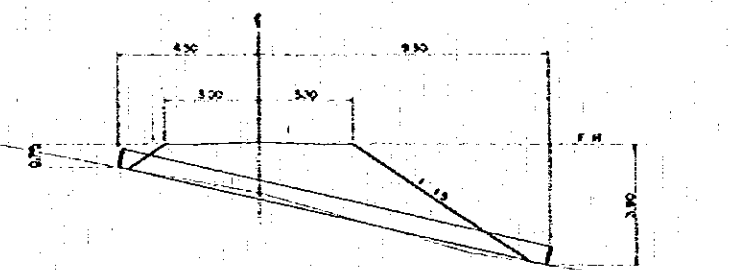
SP-300 38Y-1.81Z
#060 L-300 T-16



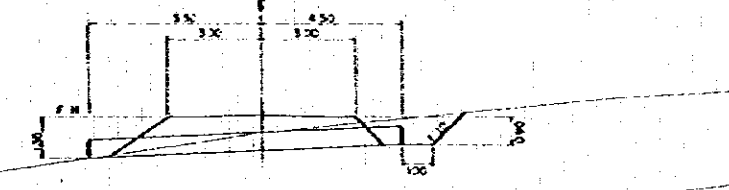
SP-50 38Y-1.81Z
#060 L-300 T-16



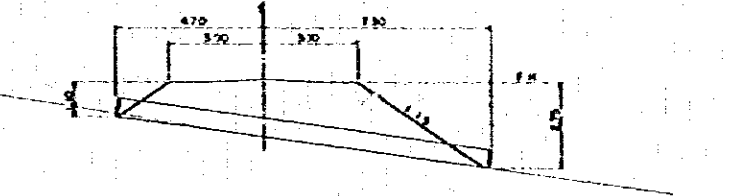
SP-163 38Y-1.81Z
#060 L-300 T-16



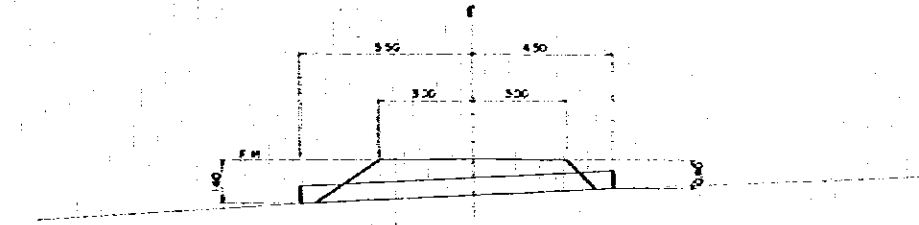
SP-060 38Y-1.81Z
#060 L-300 T-16



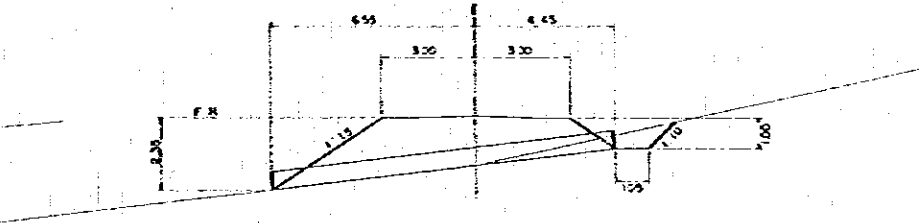
SP-200 38Y-1.81Z
#060 L-300 T-16



SP-650 38Y-1.81Z
#060 L-600 T-16



SP-350 38Y-1.81Z
#060 L-300 T-16



IV-2-3

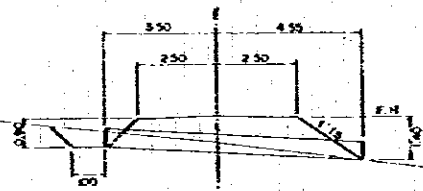
STRUCTURES PLANE.

S=1:100

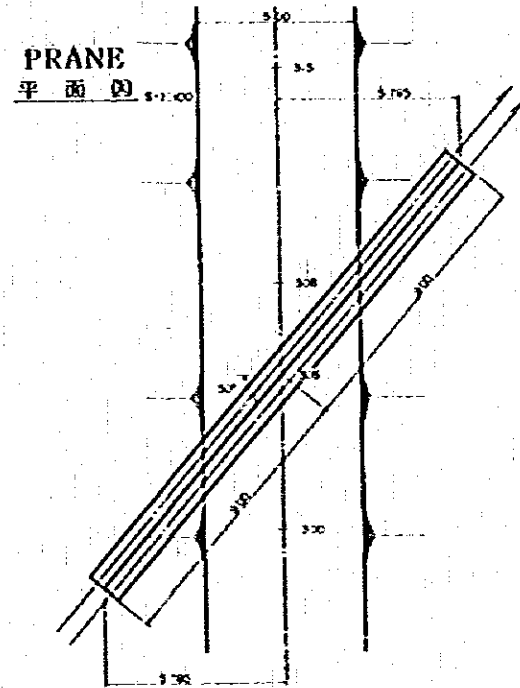
UNDER DRAIN WORK corrugated pipe
暗渠工 (コルゲトパイプ)

CROSS SECTIONAL VIEW
横断面図 S=1:100

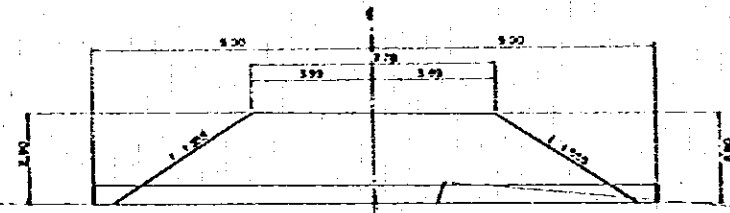
Corrugated pipe
SP-100 3LY-1.51Z
#660 L-800 1-16



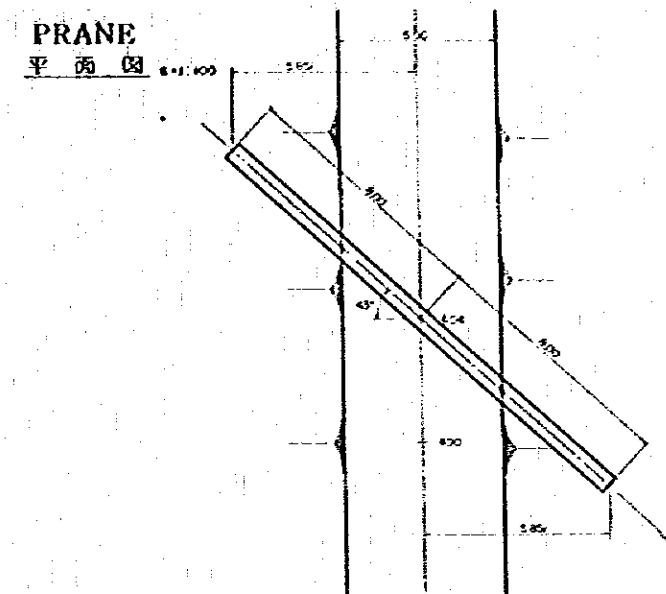
PRANE
平面図 S=1:100



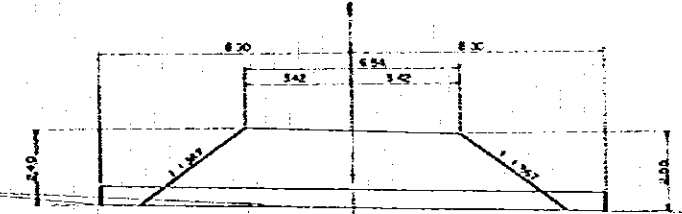
Corrugated pipe
SP-300 3LY-1.51Z
#660 L-800 2-16



PRANE
平面図 S=1:100



Corrugated pipe
SP-400 3LY-1.51Z
#660 L-800 1-16

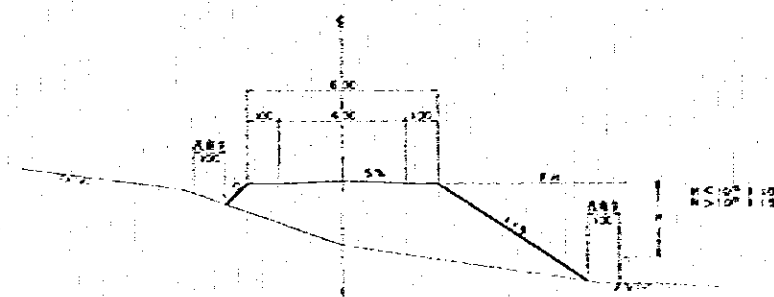
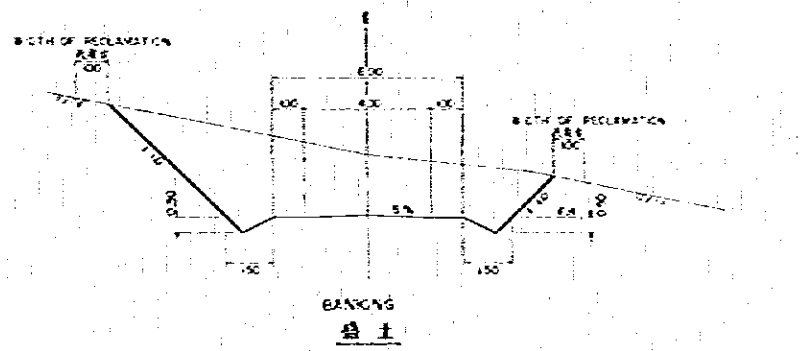
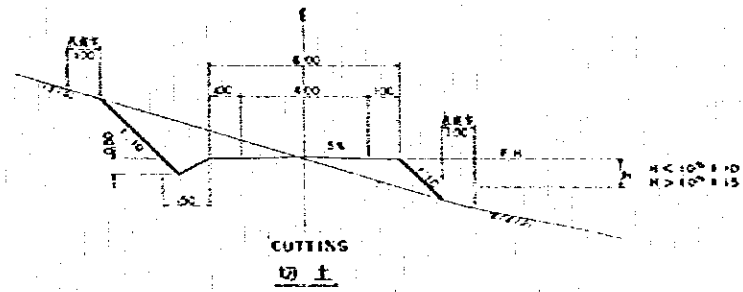


V-2-3

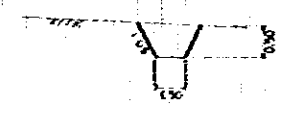
STRUTURS PLANE. Continued.

S=1:100

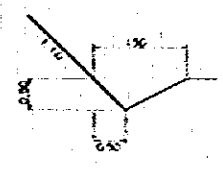
ROADWAY DIAGRAM
 土工定規圖 S=1:100
 ONE SIDE CUTTING AND BANKING
 片切堤

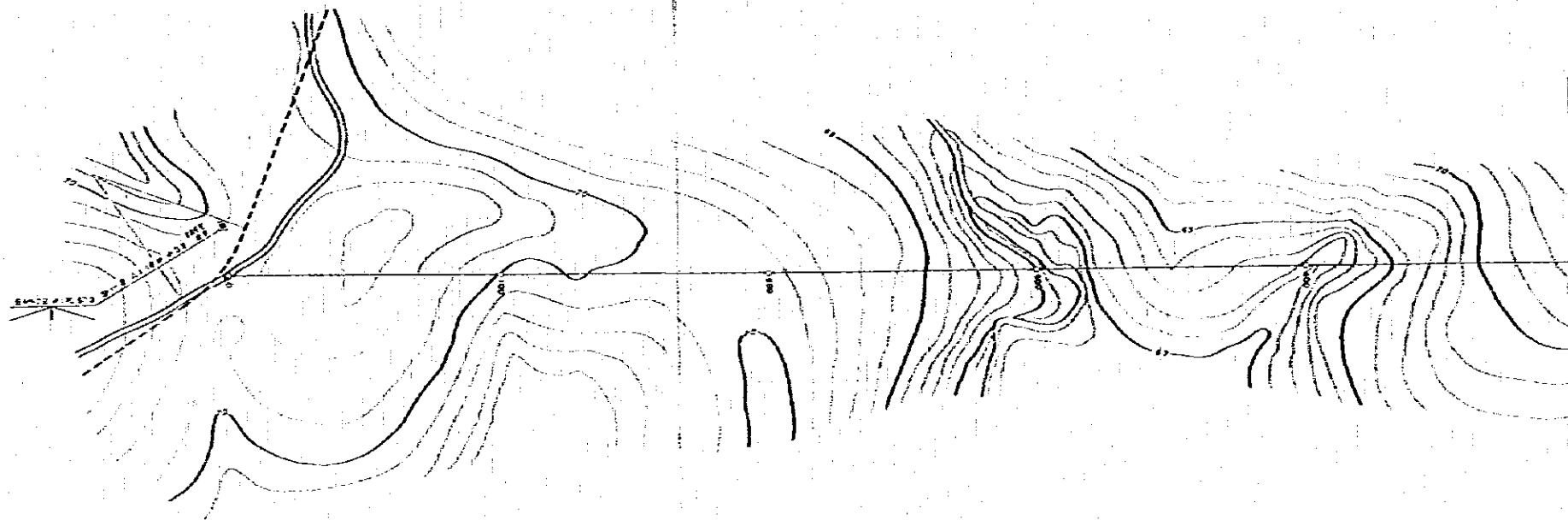


DITCH
埝水溝 S=1:50



SIDE DITCH
側溝 S=1:50

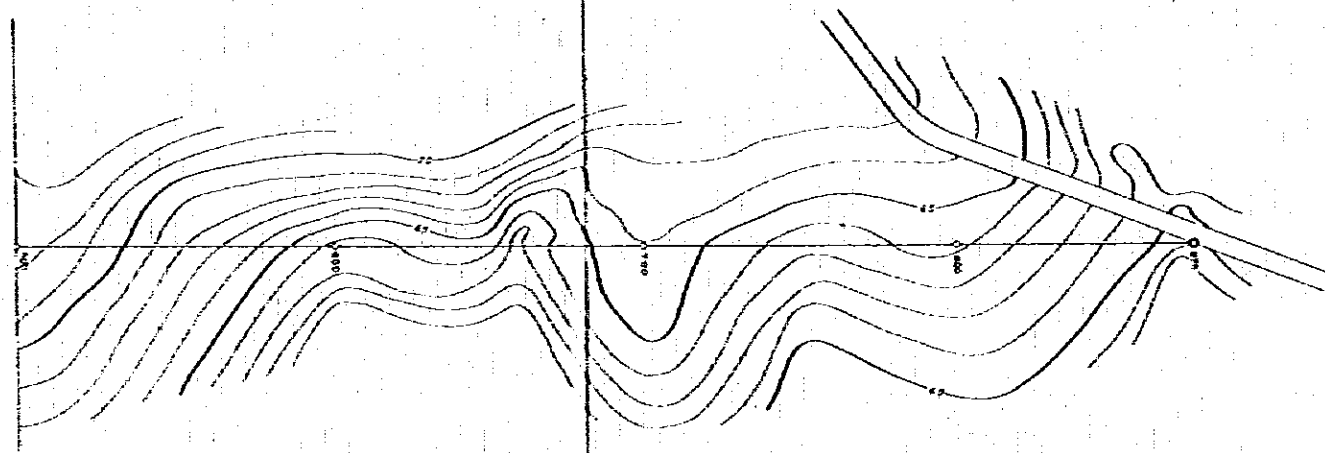




IV-3-1

PLANE.

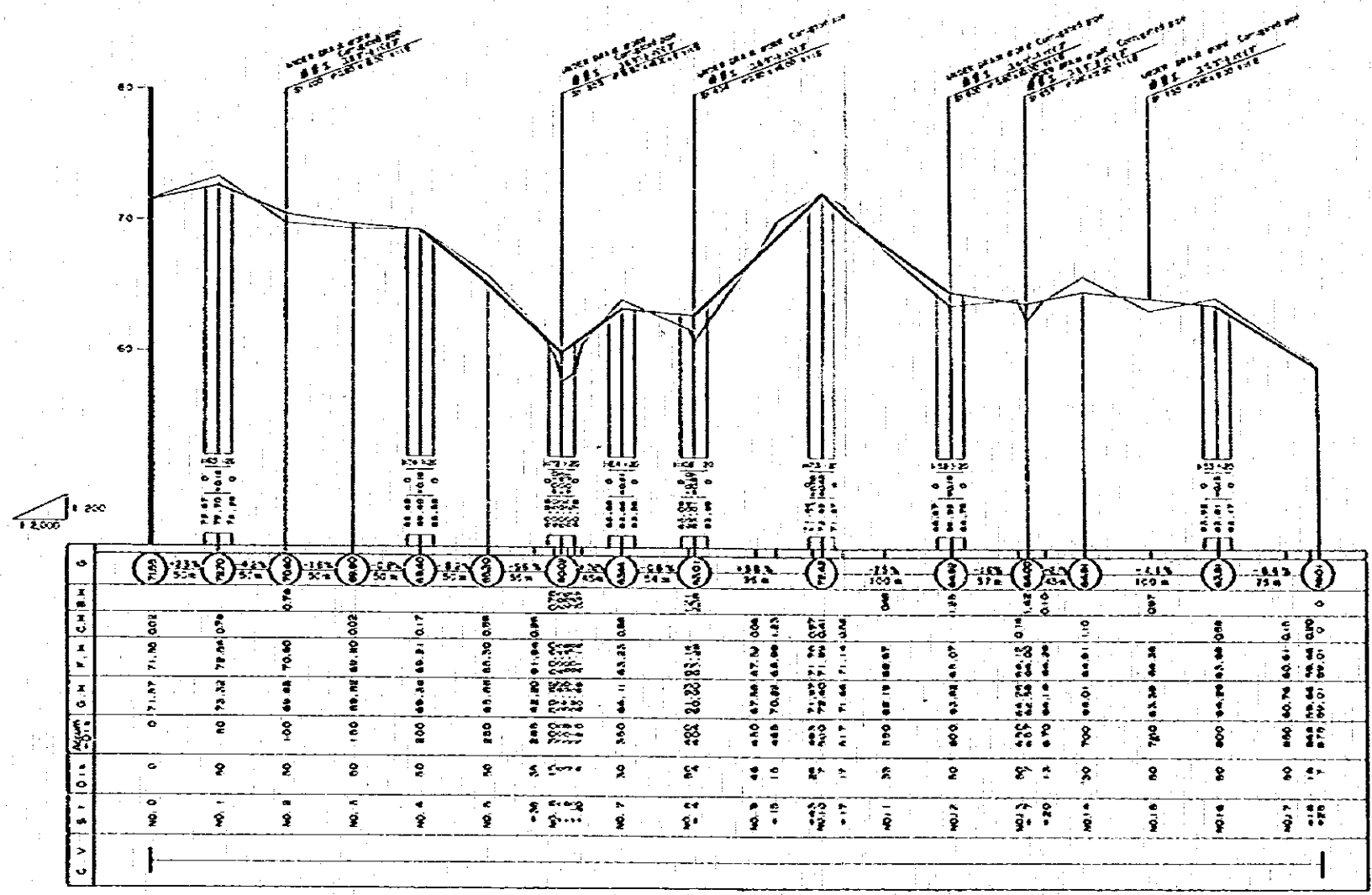
S = 1:1000



IV-3-1

PLANE, Continued.

S = 1 : 1,000



IV-3-2 PROFILE

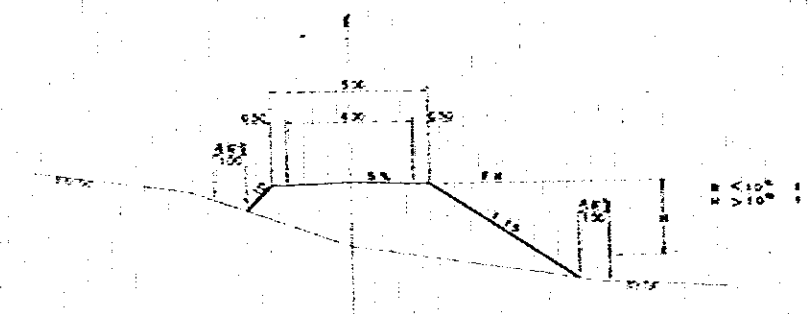
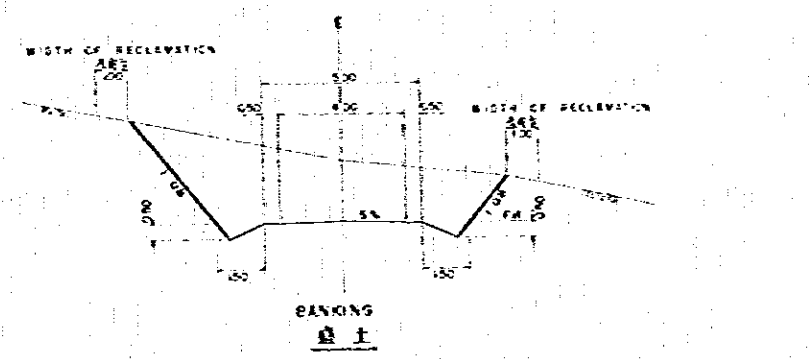
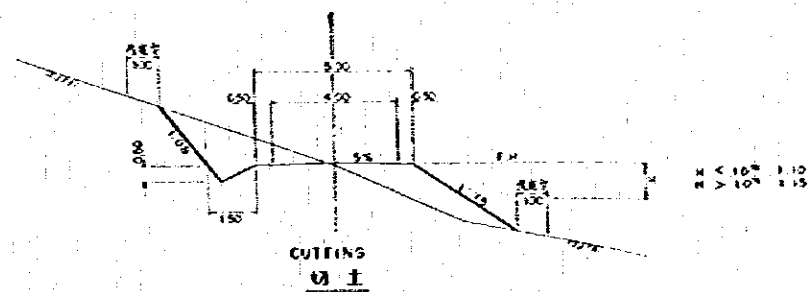
ROADWAY DIAGRAM

土工定規圖

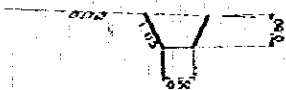
8:8:100

ONE SIDE CUTTING AND BANKING

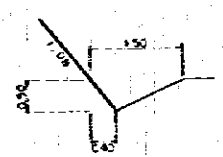
片切土



DITCH
排水溝 8:1:50

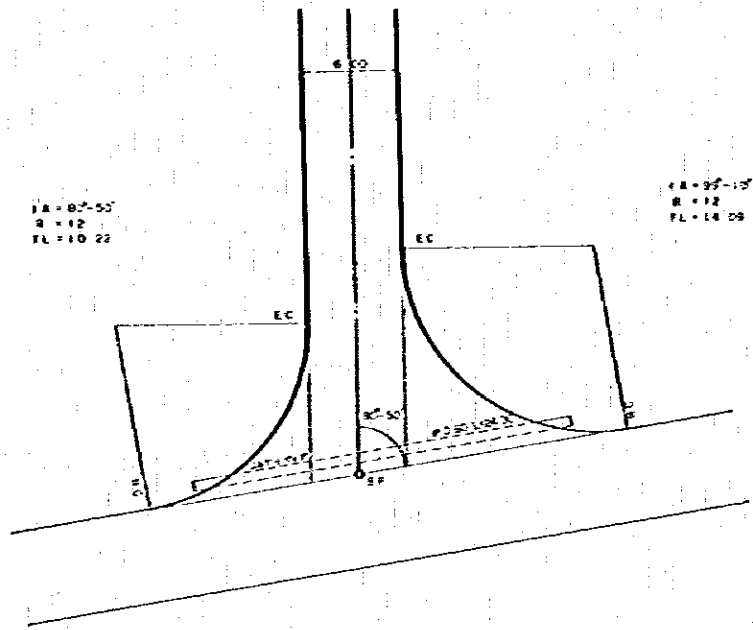


SIDE DITCH
側溝 8:1:50

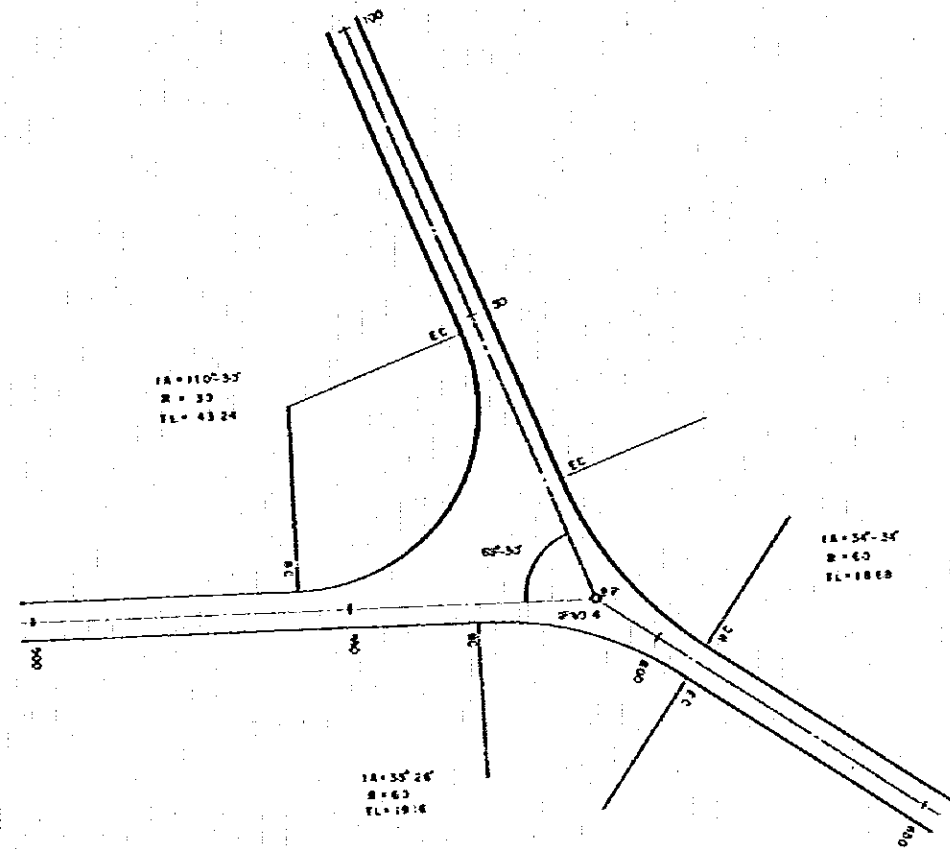


IV-3-4 ROADWAY DIAGRAM

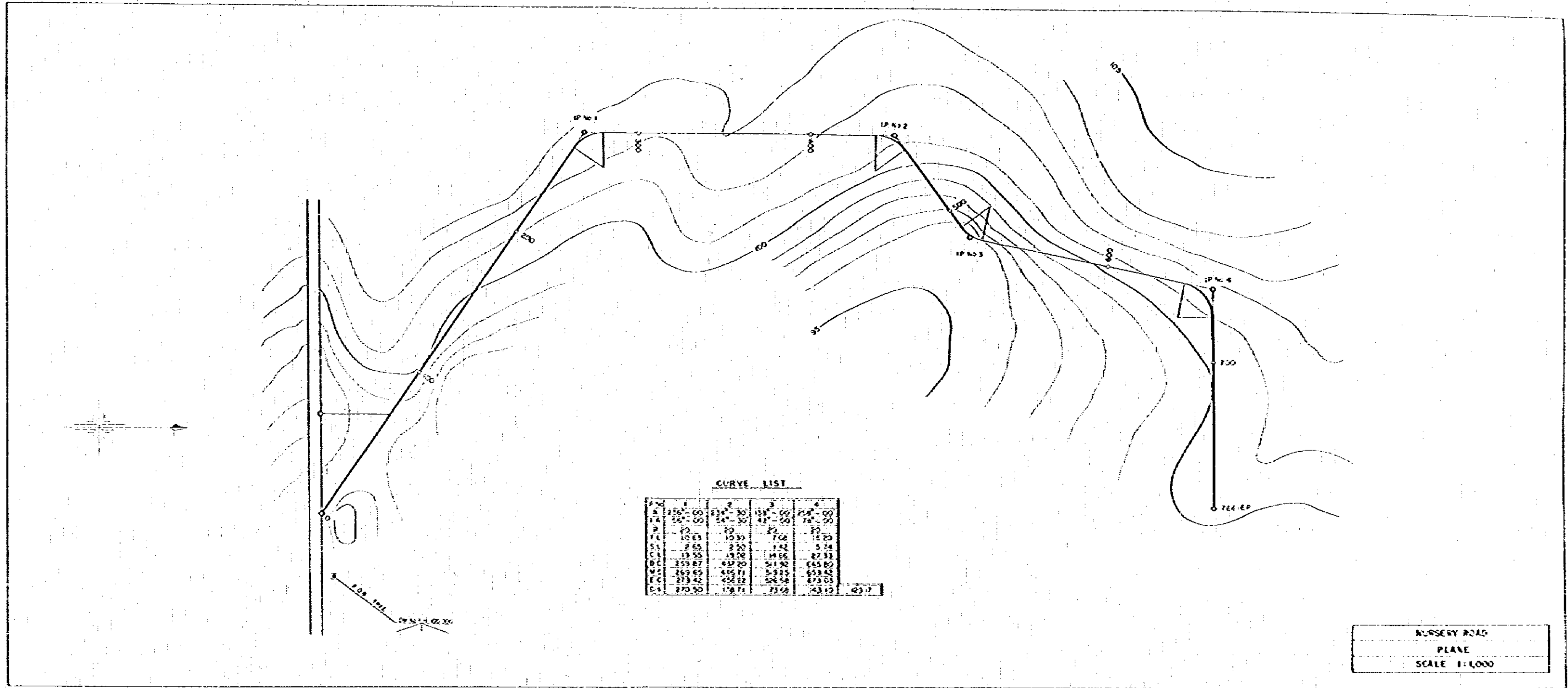
APPROACH OF BEGINNING
 起点取付図 5+1200



APPROACH OF BEGINNING
 起点取付図 5+1500



IV-3-5 APPROACH OF BEGINNING



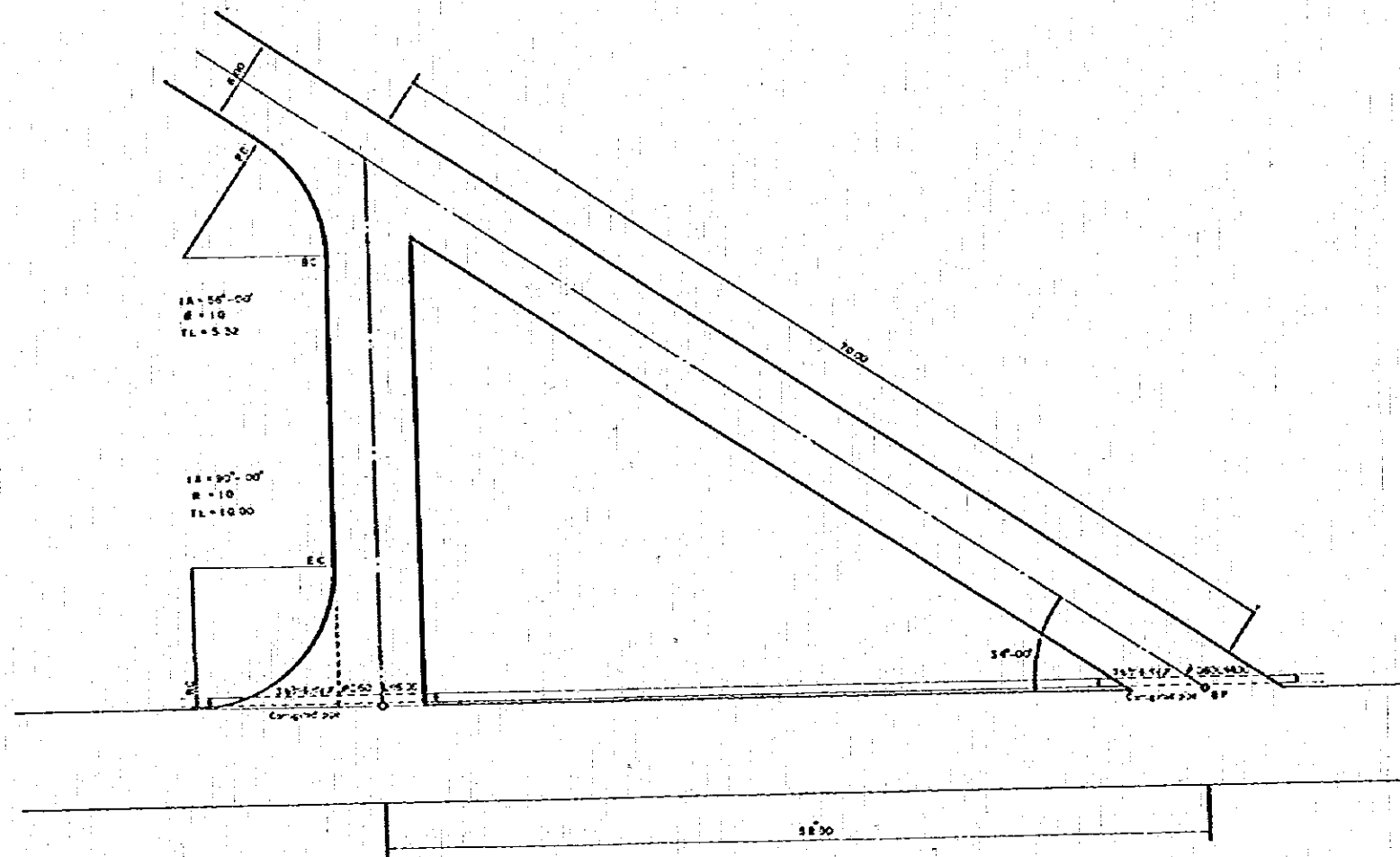
CURVE LIST

| Curve No. | 1 | 2 | 3 | 4 |
|-----------|----------|----------|----------|----------|
| B | 136'-00" | 234'-30" | 198'-00" | 246'-00" |
| FA | 54'-00" | 14'-30" | 48'-00" | 74'-00" |
| R | 75' | 70' | 25' | 47' |
| TL | 15' E3 | 19' S3 | 7' 06 | 15' 20 |
| SL | 2' 65 | 2' 50 | 1' 42 | 5' 24 |
| CL | 13' 55 | 19' 00 | 14' 66 | 27' 33 |
| DC | 153' 87 | 437' 20 | 511' 50 | 645' 80 |
| MC | 163' 69 | 446' 71 | 522' 5 | 658' 42 |
| EC | 273' 42 | 456' 22 | 526' 58 | 673' 03 |
| EA | 270' 50 | 178' 71 | 73' 08 | 43' 12 |

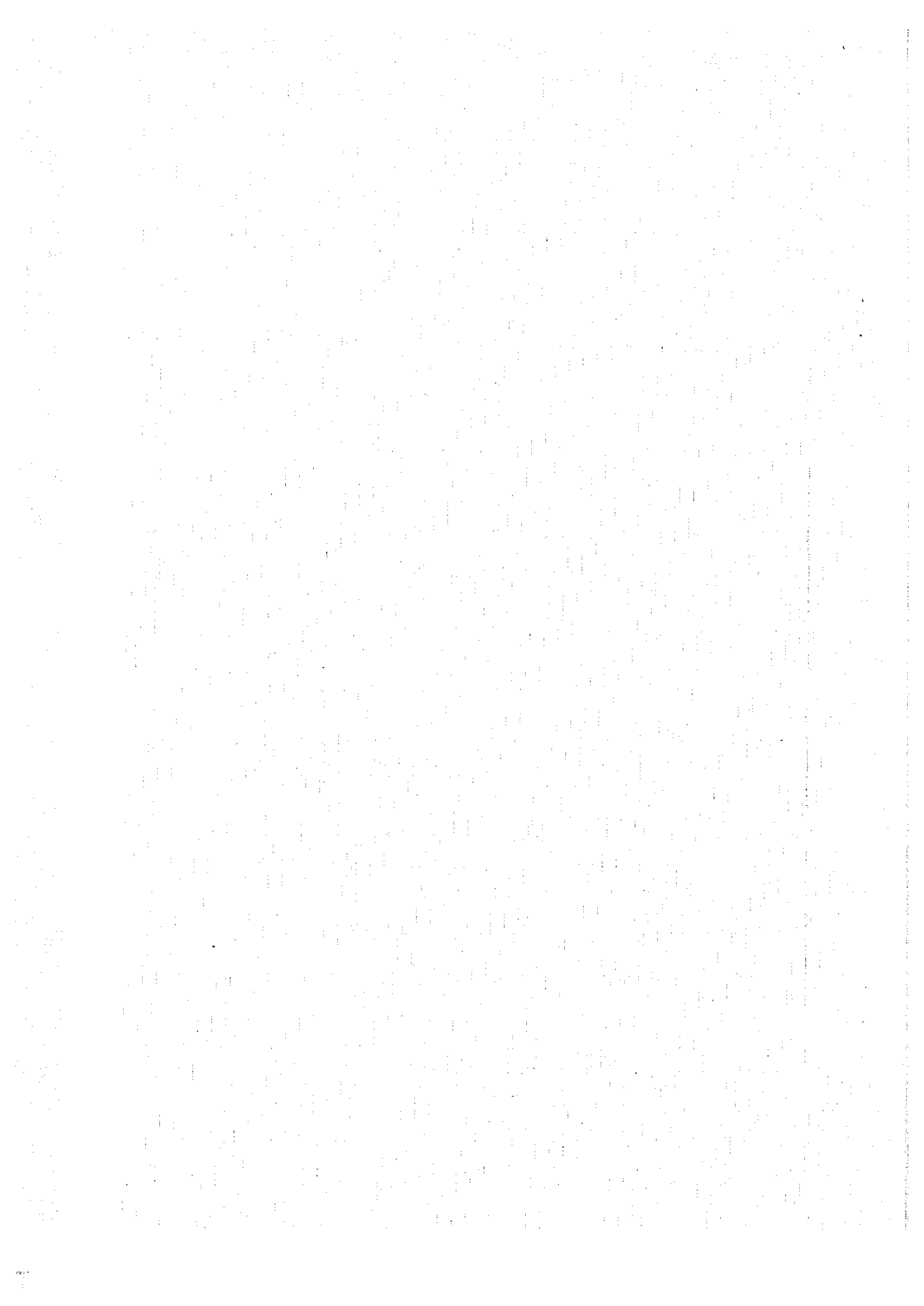
NURSERY ROAD
PLANE
SCALE 1:1,000

N-4-1 NURSERY ROAD PLANE
SCALE 1:1,000

苗畑取付図 5-11-200



IV-4-2 APPROACH OF BEGINNING



M - 5. Quantity reckoner

Main Forest Road Area reckoner

| Point | Cutting | | | Forking slope | | | | | | Cutting slope (Cut) | | | | | | | |
|-----------|----------|-------|---------|---------------|-----------------|------|----------|-----------------|-------|---------------------|-----------------|-------|----------|-----------------|------|-------|------|
| | Distance | Width | Area | Left | | | Right | | | Left | | | Right | | | | |
| | | | | Distance | Length of slope | Area | Distance | Length of slope | Area | Distance | Length of slope | Area | Distance | Length of slope | Area | | |
| 0 | | 10.0 | | | | | | | | | | | | | | | |
| 50 | 50.0 | 11.0 | 525.0 | | | | | | | | | | | | | | |
| 100 | 50.0 | 11.0 | 550.0 | | | | | | | | | | | | | | |
| 150 | 50.0 | 11.0 | 550.0 | | | | | | | | | | | | | | |
| 200 | 50.0 | 14.0 | 625.0 | | | | | | | | | | | | | | |
| 210 | 10.0 | 15.0 | 261.0 | | | | | | | | | | | | 0.9 | | |
| 250 | 32.0 | 15.0 | 480.0 | | | | | | | | | | | | | | |
| 300 | 70.0 | 12.0 | 675.0 | 50.0 | 1.9 | 47.5 | 50.0 | 2.0 | 50.0 | 50.0 | | | | | | | |
| 350 | 50.0 | 11.0 | 575.0 | 50.0 | | 47.5 | 50.0 | 0.1 | 52.5 | 50.0 | 0.2 | 5.0 | | | | | |
| 400 | 50.0 | 13.0 | 600.0 | | | | | | 50.0 | | 2.5 | 50.0 | 0.9 | 27.5 | 50.0 | 1.2 | 30.0 |
| 450 | 50.0 | 17.0 | 750.0 | 50.0 | 3.0 | 95.0 | 50.0 | 0.0 | 20.0 | 50.0 | | 22.5 | 70.0 | | | 30.0 | |
| 500 | 50.0 | 15.0 | 600.0 | 50.0 | | 95.0 | 50.0 | | 20.0 | 50.0 | 0.6 | 15.0 | 50.0 | 0.9 | | 22.5 | |
| 550 | 50.0 | 11.0 | 650.0 | | | | | | | | | | | | | | |
| 600 | 50.0 | 10.0 | 525.0 | | | | | | | | | | | | | | |
| 650 | 50.0 | 12.0 | 550.0 | | | | | | | | | | | | | | |
| 700 | 50.0 | 11.0 | 575.0 | 50.0 | 0.3 | 7.5 | | | | | | | | | 50.0 | 0.3 | 7.5 |
| 750 | 50.0 | 12.0 | 575.0 | 50.0 | 1.9 | 55.0 | 50.0 | 2.4 | 60.0 | | | | | | 50.0 | | 7.5 |
| 800 | 50.0 | 12.0 | 600.0 | 50.0 | | 47.5 | 50.0 | | 60.0 | 50.0 | 0.2 | 5.0 | 50.0 | 1.4 | | 35.0 | |
| 850 | 50.0 | 13.0 | 625.0 | | | | | | | 50.0 | | 5.0 | 50.0 | 2.4 | | 95.0 | |
| 900 | 50.0 | 13.0 | 650.0 | | | | | | | 50.0 | 0.3 | 7.5 | 50.0 | 1.0 | | 85.0 | |
| 920 | 20.0 | 16.0 | 290.0 | | | | | | | 20.0 | 1.0 | 21.0 | 20.0 | 4.9 | | 59.0 | |
| 950 | 30.0 | 14.0 | 450.0 | | | | | | | 30.0 | 0.5 | 34.5 | 30.0 | | | 73.5 | |
| Total | | | 11831.0 | | | | 395.0 | | 265.0 | | | 172.6 | | | | 550.7 | |
| Sub Total | | | 11831.0 | | | | 395.0 | | 265.0 | | | 172.6 | | | | 550.7 | |

Main Forest Road Area reckoner

| Point | Cutting | | | Banking slope | | | | | | Cutting slope (Clay) | | | | | | | |
|-----------|-----------------|-----------------|--------------------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|------------------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|
| | Distance | Width | Area | Left | | | Right | | | Left | | | Right | | | | |
| | | | | Distance | Length of slope | Area | Distance | Length of slope | Area | Distance | Length of slope | Area | Distance | Length of slope | Area | | |
| 950 | | 14 ⁰ | | | | | | | | | | | | | | | |
| 1000 | 50 ⁰ | 12 ⁰ | 650 ⁰ | | | | | | | | | 50 ⁰ | 0 ⁷ | 30 ⁰ | 50 ⁰ | 0 ⁵ | 12 ⁵ |
| 1050 | 50 ⁰ | 12 ⁰ | 650 ⁰ | 50 ⁰ | 1 ⁶ | 40 ⁰ | 70 ⁰ | 0 ² | 5 ⁰ | 50 ⁰ | | 17 ⁵ | 30 ⁰ | | | 12 ⁵ | |
| 1100 | 50 ⁰ | 11 ⁰ | 625 ⁰ | | | | | | | | | | | | | | |
| 1150 | 50 ⁰ | 14 ⁰ | 625 ⁰ | | | | | | | | | | | | | | |
| 1163 | 13 ⁰ | 20 ⁰ | 221 ⁰ | 13 ⁰ | 1 ⁵ | 9 ⁰ | 13 ⁰ | 6 ⁹ | 51 ⁰ | 13 ⁰ | | 3 ³ | | | | | |
| 1200 | 37 ⁰ | 15 ⁰ | 647 ⁵ | 37 ⁰ | | 27 ⁰ | 37 ⁰ | | 127 ⁷ | 37 ⁰ | 2 ¹ | 30 ⁹ | 37 ⁰ | 0 ³ | | 5 ⁶ | |
| 1250 | 50 ⁰ | 11 ⁰ | 650 ⁰ | | | | | | | | | 50 ⁰ | 0 ² | 57 ⁵ | 50 ⁰ | | 7 ⁵ |
| 1300 | 50 ⁰ | 13 ⁰ | 600 ⁰ | | | | | | | | | 50 ⁰ | 1 ⁹ | 52 ⁵ | 50 ⁰ | 1 ⁴ | 35 ⁰ |
| 1350 | 50 ⁰ | 17 ⁰ | 750 ⁰ | 50 ⁰ | 4 ² | 105 ⁰ | 50 ⁰ | 1 ² | 30 ⁰ | 50 ⁰ | | 47 ⁵ | 50 ⁰ | | | 35 ⁰ | |
| 1400 | 50 ⁰ | 14 ⁰ | 715 ⁰ | 50 ⁰ | | 105 ⁰ | 50 ⁰ | | 30 ⁰ | 50 ⁰ | 2 ⁰ | 50 ⁰ | 50 ⁰ | 1 ⁴ | | 35 ⁰ | |
| 1450 | 50 ⁰ | 12 ⁰ | 650 ⁰ | | | | | | | | | 50 ⁰ | 0 ³ | 57 ⁵ | 50 ⁰ | 1 ¹ | 62 ⁵ |
| 1500 | 50 ⁰ | 10 ⁰ | 550 ⁰ | | | | | | | | | | | | | | |
| 1550 | 50 ⁰ | 12 ⁰ | 550 ⁰ | | | | | | | | | | | | | | |
| 1600 | 50 ⁰ | 12 ⁰ | 600 ⁰ | 50 ⁰ | 2 ⁴ | 60 ⁰ | 50 ⁰ | 2 ⁶ | 65 ⁰ | 50 ⁰ | | 5 ⁰ | 50 ⁰ | | | 30 ⁰ | |
| 1650 | 50 ⁰ | 16 ⁰ | 700 ⁰ | 50 ⁰ | 2 ⁵ | 122 ⁵ | 50 ⁰ | 1 ³ | 97 ⁵ | | | | | | | | |
| 1700 | 50 ⁰ | 15 ⁰ | 775 ⁰ | 50 ⁰ | | 62 ⁵ | 50 ⁰ | | 32 ⁵ | | | | | | 50 ⁰ | 1 ³ | 32 ⁵ |
| 1750 | 50 ⁰ | 12 ⁰ | 675 ⁰ | | | | | | | | | | | | | | |
| 1800 | 70 ⁰ | 10 ⁰ | 550 ⁰ | | | | | | | | | | | | | | |
| Total | | | 11243 ⁵ | | | 532 ⁶ | | | 439 ¹ | | | 352 ⁷ | | | | 260 ¹ | |
| Sea Total | | | 23124 ⁵ | | | 927 ⁶ | | | 704 ¹ | | | 532 ³ | | | | 826 ⁰ | |

Main Forest Road

Soil Volume reckoner (2)

| Point | Distance | Clay | | Cutting total | Banking | | Utilizable volume | Cutting - Banking | | Total | R.M. |
|--------------|----------|-----------------|-------------------|-------------------|-----------------|-------------------|----------------------|-------------------|-------------------|--------------------|------|
| | | Section area | Volume | | Section area | Volume | | ⊕ | ⊖ | | |
| 920 | | | | | 150 | | | | | 150 | |
| 950 | 30 | 2 ³ | 34 ⁵ | 34 ⁵ | | 237 ⁰ | 34 ⁵ | | 202 ⁵ | - 52 ⁴ | |
| 1000 | 50 | 5 ³ | 190 ⁰ | 190 ⁰ | | | | 190 ⁰ | | 137 ⁶ | |
| 1050 | 50 | | 132 ⁵ | 132 ⁵ | 39 | 97 ⁵ | 97 ⁵ | 35 ⁰ | | 172 ⁰ | |
| 1150 | | 0 ¹ | | | 19 | | | | | 172 ⁶ | |
| 1163 | 13 | | 4 ⁶ | 4 ⁶ | 10 ³ | 131 ³ | 4 ⁶ | | 126 ⁷ | 45 ⁸ | |
| 1200 | 37 | 10 ⁰ | 185 ⁰ | 185 ⁰ | | 339 ⁶ | 185 ⁰ | | 153 ⁶ | - 107 ⁷ | |
| 1250 | 50 | 13 ³ | 282 ⁵ | 282 ⁵ | | | | 282 ⁵ | | 174 ² | |
| 1300 | 50 | 13 ³ | 365 ⁰ | 365 ⁰ | | | | 365 ⁰ | | 539 ⁸ | |
| 1350 | 50 | | 332 ⁵ | 332 ⁵ | 12 ⁸ | 320 ⁰ | 320 ⁰ | 12 ⁸ | | 552 ³ | |
| 1400 | 50 | 13 ⁰ | 325 ⁰ | 325 ⁰ | | 320 ⁰ | 320 ⁰ | 5 ⁰ | | 557 ³ | |
| 1450 | 50 | 5 ¹ | 460 ⁰ | 460 ⁰ | | | | 460 ⁰ | | 1017 ³ | |
| 1550 | | 5 ⁴ | | | | | | | | 1017 ³ | |
| 1600 | 50 | | 135 ⁰ | 135 ⁰ | 11 ⁸ | 295 ⁰ | 135 ⁰ | | 160 ⁰ | 857 ³ | |
| 1650 | 50 | | | | 8 ⁶ | 507 ⁵ | | | 507 ⁵ | 349 ⁸ | |
| 1700 | 50 | 4 ⁸ | 112 ⁵ | 112 ⁵ | | 212 ⁶ | 112 ⁵ | | 100 ⁰ | 249 ⁸ | |
| Total | | | 2559 ¹ | 2559 ¹ | | 2259 ⁴ | 1289 ¹ | 1350 ⁰ | 1250 ³ | | |
| Sum Total | | | 4435 ¹ | 4435 ¹ | | 4105 ⁸ | 2074 ¹ | 2361 ⁶ | 2111 ⁶ | | |

Main Forest Road Area reckoner

| Point | Cutting | | | Banking slope | | | | | | Cutting slope (Clay) | | | | | | |
|-----------|-----------------|-----------------|-------------------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|------------------------|-----------------|------------------|-----------------|-----------------|------------------|--|
| | Distance | Width | Area | Left | | | Right | | | Left | | | Right | | | |
| | | | | Distance | Length of slope | Area | Distance | Length of slope | Area | Distance | Length of slope | Area | Distance | Length of slope | Area | |
| 0 | | 10 ⁰ | | | | | | | | | | | | | | |
| 50 | 50 ⁰ | 11 ⁰ | 525 ⁰ | | | | | | | 50 ⁰ | 1 ² | 30 ⁰ | 50 ⁰ | 0 ⁷ | 17 ⁵ | |
| 100 | 50 ⁰ | 12 ⁰ | 575 ⁰ | 50 ⁰ | 0 ⁶ | 15 ⁰ | 50 ⁰ | 2 ⁵ | 62 ⁵ | 50 ⁰ | | 30 ⁰ | 50 ⁰ | | 17 ⁵ | |
| 150 | 50 ⁰ | 9 ⁰ | 525 ⁰ | 50 ⁰ | | 15 ⁰ | 50 ⁰ | 0 ² | 67 ⁵ | 50 ⁰ | 0 ² | 5 ⁰ | | | | |
| 200 | 50 ⁰ | 10 ⁰ | 475 ⁰ | | | | 50 ⁰ | | 5 ⁰ | 50 ⁰ | | 5 ⁰ | 50 ⁰ | 0 ³ | 7 ⁵ | |
| 250 | 50 ⁰ | 11 ⁰ | 525 ⁰ | | | | 50 ⁰ | 0 ⁶ | 15 ⁰ | 50 ⁰ | 0 ⁶ | 15 ⁰ | 50 ⁰ | 0 ⁹ | 30 ⁰ | |
| 205 | 35 ⁰ | 9 ⁰ | 350 ⁰ | 35 ⁰ | 0 ⁴ | 7 ⁰ | | | | 35 ⁰ | | 10 ⁵ | 35 ⁰ | 0 ⁶ | 26 ³ | |
| 300 | 15 ⁰ | 11 ⁰ | 150 ⁰ | 15 ⁰ | 1 ¹ | 93 ⁰ | 15 ⁰ | 0 ⁸ | 6 ⁰ | | | | 15 ⁰ | | 4 ⁵ | |
| 305 | 5 ⁰ | 15 ⁰ | 65 ⁰ | 5 ⁰ | 3 ⁷ | 19 ⁵ | 5 ⁰ | 3 ³ | 10 ³ | | | | | | | |
| 302 | 3 ⁰ | 16 ⁰ | 46 ⁵ | 3 ⁰ | 3 ⁶ | 11 ⁰ | 3 ⁰ | 4 ⁰ | 11 ⁰ | | | | | | | |
| 315 | 7 ⁰ | 16 ⁰ | 112 ⁰ | 7 ⁰ | 3 ⁶ | 25 ² | 7 ⁰ | 4 ⁰ | 28 ⁰ | | | | | | | |
| 320 | 5 ⁰ | 13 ⁰ | 72 ⁵ | 5 ⁰ | 0 ⁴ | 10 ⁰ | 5 ⁰ | 0 ⁹ | 12 ³ | | | | | | | |
| 350 | 30 ⁰ | 14 ⁰ | 405 ⁰ | 30 ⁰ | | 6 ⁰ | 30 ⁰ | | 13 ⁵ | 30 ⁰ | 1 ⁶ | 28 ⁰ | 30 ⁰ | 0 ⁶ | 9 ⁰ | |
| 400 | 50 ⁰ | 15 ⁰ | 725 ⁰ | 50 ⁰ | 0 ⁹ | 22 ⁵ | 50 ⁰ | 3 ⁵ | 87 ⁵ | 50 ⁰ | | 40 ⁰ | 50 ⁰ | | 15 ⁰ | |
| 404 | 4 ⁰ | 16 ⁰ | 62 ⁰ | 4 ⁰ | 2 ² | 6 ² | 4 ⁰ | 2 ⁷ | 12 ⁴ | | | | | | | |
| 450 | 46 ⁰ | 12 ⁰ | 644 ⁰ | 46 ⁰ | | 50 ⁶ | 46 ⁰ | | 62 ¹ | | | | 46 ⁰ | 0 ³ | 6 ⁹ | |
| 465 | 15 ⁰ | 12 ⁰ | 180 ⁰ | | | | | | | 15 ⁰ | 1 ⁵ | 11 ³ | 15 ⁰ | 1 ⁶ | 14 ³ | |
| 493 | 20 ⁰ | 11 ⁰ | 322 ⁰ | | | | | | | 20 ⁰ | 0 ³ | 25 ² | 20 ⁰ | 0 ² | 25 ² | |
| 500 | 7 ⁰ | 11 ⁰ | 77 ⁰ | | | | | | | 7 ⁰ | 0 ⁵ | 2 ⁰ | 7 ⁰ | 0 ² | 1 ⁴ | |
| 517 | 17 ⁰ | 11 ⁰ | 187 ⁰ | | | | | | | 17 ⁰ | 1 ⁰ | 12 ⁰ | 17 ⁰ | 0 ² | 3 ⁴ | |
| 550 | 33 ⁰ | 10 ⁰ | 346 ⁵ | 33 ⁰ | 0 ⁵ | 8 ³ | 33 ⁰ | 1 ⁰ | 16 ⁵ | 33 ⁰ | | 16 ⁵ | 33 ⁰ | | 3 ³ | |
| 600 | 50 ⁰ | 19 ⁰ | 725 ⁰ | 50 ⁰ | 0 ⁸ | 32 ⁵ | 50 ⁰ | 2 ⁷ | 92 ⁵ | | | | | | | |
| Total | | | 704 ⁵ | | | 262 ⁶ | | | 487 ¹ | | | 228 ¹ | | | 181 ⁰ | |
| Sea Total | | | 7094 ⁵ | | | 262 ⁶ | | | 487 ¹ | | | 228 ¹ | | | 181 ⁰ | |

Main Forest Road Area reckoner

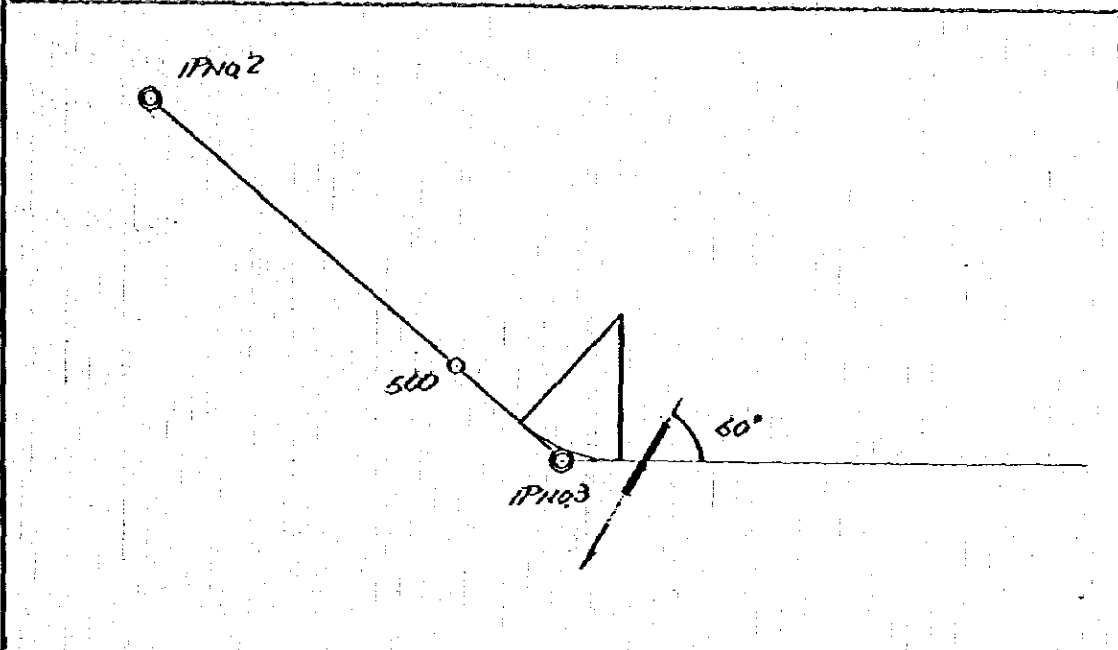
| Point | Cutting | | | Basking slope | | | | | | Cutting slope (Clay) | | | | | | | |
|-----------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|
| | Distance | Width | Area | Left | | | Right | | | Left | | | Right | | | | |
| | | | | Distance | Length of slope | Area | Distance | Length of slope | Area | Distance | Length of slope | Area | Distance | Length of slope | Area | | |
| 600 | | 19 ⁰ | | | | | | | | | | | | | | | |
| 650 | 50 ⁰ | 12 ⁰ | 775 ¹⁰ | 10 ⁰ | | 20 ⁰ | 10 ⁰ | 0.3 | 75 ⁰ | 20 ⁰ | 1.3 | 32.5 | | | | | |
| 651 | 7 ⁰ | 16 ⁰ | 90 ⁰ | 7 ⁰ | 2.7 | 9.5 | 7 ⁰ | 2.6 | 10.2 | 7 ⁰ | | 4.6 | | | | | |
| 670 | 13 ⁰ | 0 ⁰ | 155 ⁰ | 13 ⁰ | 0.4 | 20.2 | 13 ⁰ | 0.3 | 10.9 | | | | | | | | |
| 700 | 30 ⁰ | 12 ⁰ | 300 ⁰ | 30 ⁰ | | 6 ⁰ | 30 ⁰ | | 4.5 | 30 ⁰ | 1.4 | 21 ⁰ | 30 ⁰ | 1.5 | 22.5 | | |
| 750 | 50 ⁰ | 14 ⁰ | 650 ⁰ | 50 ⁰ | 0.9 | 22.5 | 50 ⁰ | 2.7 | 67.5 | 50 ⁰ | | 35 ⁰ | 50 ⁰ | | 37.5 | | |
| 800 | 50 ⁰ | 13 ⁰ | 675 ⁰ | 50 ⁰ | | 22.5 | 50 ⁰ | | 67.5 | 50 ⁰ | 1.1 | 27.5 | 30 ⁰ | 0.3 | 7.5 | | |
| 850 | 50 ⁰ | 10 ⁰ | 575 ⁰ | | | | | | | 50 ⁰ | | 27.5 | 30 ⁰ | 0.1 | 10 ⁰ | | |
| 860 | 10 ⁰ | 0 ⁰ | 162 ⁰ | 10 ⁰ | 0.4 | 3.6 | 10 ⁰ | 1.2 | 10.0 | | | | 10 ⁰ | | 0.9 | | |
| 875 | 7 ⁰ | 9 ⁰ | 59.5 | 7 ⁰ | | 1.4 | 7 ⁰ | 0.3 | 5.3 | 7 ⁰ | 0.2 | 0.7 | | | | | |
| Total | | | 3150.5 | | | 105.7 | | | 259.7 | | | 140.0 | | | 70.4 | | |
| Sum Total | | | 10745.0 | | | 360.3 | | | 746.0 | | | 376.9 | | | 280.2 | | |

Working Forest Road
Quantity of Culvert

26

| Name Signed Date | Culvert type | | | | | |
|------------------------|--------------|-------|--|--|--|--|
| 22 | 100 | 200 | | | | |
| 300 | 100 | 300 | | | | |
| 400 | 100 | 400 | | | | |
| 500 | 100 | 500 | | | | |
| 600 | 100 | 600 | | | | |
| 700 | 100 | 700 | | | | |
| 800 | 100 | 800 | | | | |
| 900 | 100 | 900 | | | | |
| 1000 | 100 | 1000 | | | | |
| 1100 | 100 | 1100 | | | | |
| 1200 | 100 | 1200 | | | | |
| 1300 | 100 | 1300 | | | | |
| 1400 | 100 | 1400 | | | | |
| 1500 | 100 | 1500 | | | | |
| 1600 | 100 | 1600 | | | | |
| 1700 | 100 | 1700 | | | | |
| 1800 | 100 | 1800 | | | | |
| 1900 | 100 | 1900 | | | | |
| 2000 | 100 | 2000 | | | | |
| 2100 | 100 | 2100 | | | | |
| 2200 | 100 | 2200 | | | | |
| 2300 | 100 | 2300 | | | | |
| 2400 | 100 | 2400 | | | | |
| 2500 | 100 | 2500 | | | | |
| 2600 | 100 | 2600 | | | | |
| 2700 | 100 | 2700 | | | | |
| 2800 | 100 | 2800 | | | | |
| 2900 | 100 | 2900 | | | | |
| 3000 | 100 | 3000 | | | | |
| 3100 | 100 | 3100 | | | | |
| 3200 | 100 | 3200 | | | | |
| 3300 | 100 | 3300 | | | | |
| 3400 | 100 | 3400 | | | | |
| 3500 | 100 | 3500 | | | | |
| 3600 | 100 | 3600 | | | | |
| 3700 | 100 | 3700 | | | | |
| 3800 | 100 | 3800 | | | | |
| 3900 | 100 | 3900 | | | | |
| 4000 | 100 | 4000 | | | | |
| 4100 | 100 | 4100 | | | | |
| 4200 | 100 | 4200 | | | | |
| 4300 | 100 | 4300 | | | | |
| 4400 | 100 | 4400 | | | | |
| 4500 | 100 | 4500 | | | | |
| 4600 | 100 | 4600 | | | | |
| 4700 | 100 | 4700 | | | | |
| 4800 | 100 | 4800 | | | | |
| 4900 | 100 | 4900 | | | | |
| 5000 | 100 | 5000 | | | | |
| 5100 | 100 | 5100 | | | | |
| 5200 | 100 | 5200 | | | | |
| 5300 | 100 | 5300 | | | | |
| 5400 | 100 | 5400 | | | | |
| 5500 | 100 | 5500 | | | | |
| 5600 | 100 | 5600 | | | | |
| 5700 | 100 | 5700 | | | | |
| 5800 | 100 | 5800 | | | | |
| 5900 | 100 | 5900 | | | | |
| 6000 | 100 | 6000 | | | | |
| 6100 | 100 | 6100 | | | | |
| 6200 | 100 | 6200 | | | | |
| 6300 | 100 | 6300 | | | | |
| 6400 | 100 | 6400 | | | | |
| 6500 | 100 | 6500 | | | | |
| 6600 | 100 | 6600 | | | | |
| 6700 | 100 | 6700 | | | | |
| 6800 | 100 | 6800 | | | | |
| 6900 | 100 | 6900 | | | | |
| 7000 | 100 | 7000 | | | | |
| 7100 | 100 | 7100 | | | | |
| 7200 | 100 | 7200 | | | | |
| 7300 | 100 | 7300 | | | | |
| 7400 | 100 | 7400 | | | | |
| 7500 | 100 | 7500 | | | | |
| 7600 | 100 | 7600 | | | | |
| 7700 | 100 | 7700 | | | | |
| 7800 | 100 | 7800 | | | | |
| 7900 | 100 | 7900 | | | | |
| 8000 | 100 | 8000 | | | | |
| 8100 | 100 | 8100 | | | | |
| 8200 | 100 | 8200 | | | | |
| 8300 | 100 | 8300 | | | | |
| 8400 | 100 | 8400 | | | | |
| 8500 | 100 | 8500 | | | | |
| 8600 | 100 | 8600 | | | | |
| 8700 | 100 | 8700 | | | | |
| 8800 | 100 | 8800 | | | | |
| 8900 | 100 | 8900 | | | | |
| 9000 | 100 | 9000 | | | | |
| 9100 | 100 | 9100 | | | | |
| 9200 | 100 | 9200 | | | | |
| 9300 | 100 | 9300 | | | | |
| 9400 | 100 | 9400 | | | | |
| 9500 | 100 | 9500 | | | | |
| 9600 | 100 | 9600 | | | | |
| 9700 | 100 | 9700 | | | | |
| 9800 | 100 | 9800 | | | | |
| 9900 | 100 | 9900 | | | | |
| 10000 | 100 | 10000 | | | | |

Nursery Road Reckoner



SP 530

Corrugated pipe

$\phi 060$ $t=16$ $L=1100^m$

Main Forest Road Soil Volume reckoner

(1)

| Point | Distance | Clay | | Cutting total | Banking | | Utilizable volume | Cutting - Banking | | Total | RM. |
|----------------------|----------|-----------------|-------------------|-------------------|-----------------|------------------|----------------------|-------------------|------------------|------------------|-----|
| | | Section area | Volume | | Section area | Volume | | ⊕ | ⊖ | | |
| 200 | | 2 ⁶ | | | | | | | | 0 | |
| 210 | 10 | 5 ⁹ | 76 ⁰ | 76 ⁰ | | | | 76 ⁰ | | 76 ⁰ | |
| 250 | 32 | 7 ⁷ | 217 ⁶ | 217 ⁶ | | | | 217 ⁶ | | 294 ¹ | |
| 300 | 50 | | 192 ⁰ | 192 ⁰ | 8 ¹ | 202 ⁰ | 192 ⁰ | | 10 ⁰ | 204 ¹ | |
| 350 | 50 | 0 ⁸ | 20 ⁰ | 20 ⁰ | 0 ⁷ | 220 ⁰ | 20 ⁰ | | 200 ⁰ | 84 ¹ | |
| 400 | 50 | 8 ⁷ | 237 ⁵ | 237 ⁵ | | 17 ⁵ | 17 ⁵ | 220 ⁰ | | 304 ¹ | |
| 450 | 50 | | 217 ⁰ | 217 ⁰ | 10 ⁷ | 267 ⁵ | 217 ⁰ | | 50 ⁰ | 254 ¹ | |
| 500 | 50 | 4 ⁸ | 120 ⁰ | 120 ⁰ | | 267 ⁵ | 120 ⁰ | | 147 ⁵ | 106 ⁶ | |
| 700 | | 1 ⁷ | | | 0 ⁸ | | | | | 106 ⁶ | |
| Total | | | 1081 ⁶ | 1081 ⁶ | | 975 ⁰ | 567 ⁵ | 514 ¹ | 407 ⁶ | | |
| Sum Total | | | 1081 ⁶ | 1081 ⁶ | | 975 ⁰ | 567 ⁵ | 514 ¹ | 407 ⁶ | | |

Main Forest Road

| Item | Calculation | Quantity |
|-----------|-----------------|----------|
| Spreading | | |
| | SP 0 ~ SP 200 | 200 |
| | SP 500 ~ SP 700 | 200 |
| | | |
| | Total | 400 m |
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Main Forest Road

| Item | Calculation | Quantity |
|-----------|-----------------|----------|
| Spreading | | |
| | SP 0 ~ SP 200 | 200 |
| | SP 500 ~ SP 700 | 200 |
| | | |
| | Total | 400 m |
| | | |
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