

GROUP E

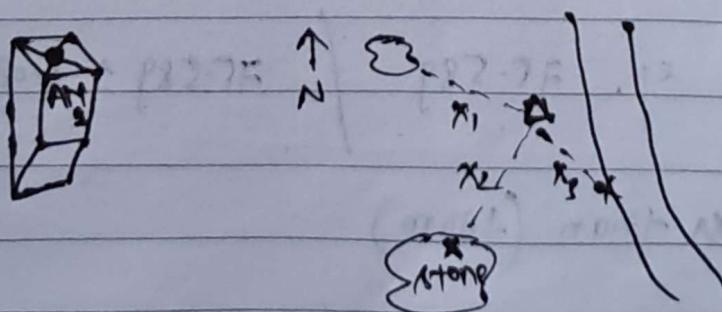
Traverse

→ Common point
↳ CP₁ & CP₂

→ Reconnaissance

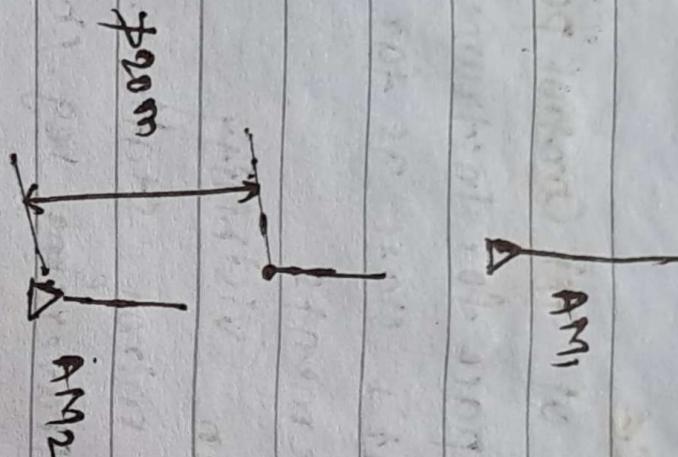
- (i) visibility of ~~not~~ Control points
- (ii) Available space for instrument fixing
- (iii) Avoid pavements' slate as far as possible and road pavements
- (iv) Footh station visibility
- (v) Branching for minor stations.
- (vi) leg ratio of traversing leg should not exceed 1:2 for major traverse and 1:3 for minor traverse legs

→ pegging and Referencing



→ linear measurement by tape

→ Ranging



Difference betw R.O.D and B.O.D

= 1 : 2000

$$\text{Eq. } 35.589 \quad | \quad 35.589 \pm 0.0075$$

100 m (100 m)

task sight to

E_{M_2} E_{M_3}

E_m

	<i>Bs</i>	<i>R</i>				
	T	M	B	T	M	B
①	0.0815	0.725	0.635	2.573	2.4079	2.385
②	0.8797	0.68	0.77	2.515 2.442	2.467	2.425
③	220	0.624	0.5765	0.529	2.744	2.698
④	200	0.76	0.713	0.666		2.6521
	190	0.7545	0.7075	0.6605		
				2.65	2.605	2.56

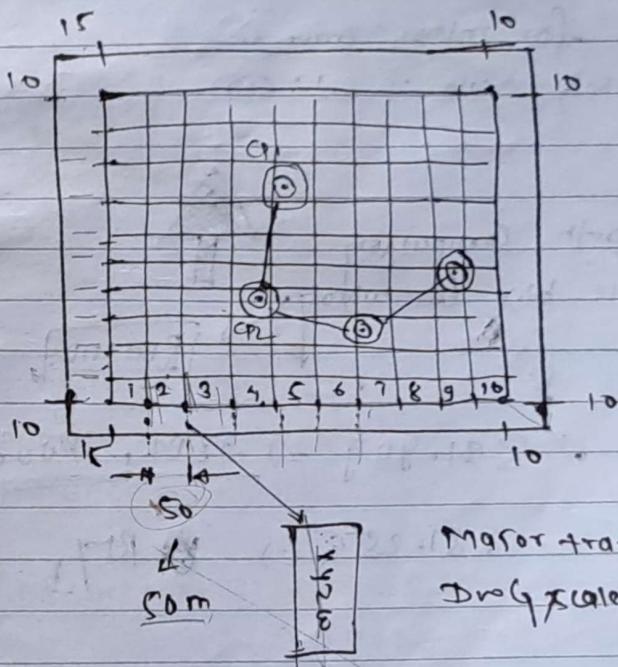
1125

GPI (Location)

$$N = 3128936.810$$

$$E = 972012.788$$

N = 9



Major traverse

Draught scale $\Rightarrow 1:100$

\max^m \min_{lower}

latitude	60° 0.245	150° 35.4
departure	700 & 22	300.5

(e.g.)

~~drift~~ (N) Latitude =)

~~Q~~ (E) departure =)

Earthly { Total grid 500 m. \Rightarrow 100 } needed
needed 400 \Rightarrow 8

for minor traverse
DWG scale \Rightarrow 1:500

North Compiling
The box compiling



1801.00

831.909 \rightarrow 73M, Rwood

881.258 \rightarrow 5 BM₁

-56.3002

51.8689

max^m

latitude 76.479495

min^m

$$-78.87399 = 155.353485$$

deg 81.3515

$$-89.0711 = 170.4225$$

down

269.823

max^m Latitude = 8129137.493

minimum .. = 8128867.67

Difference: 269.823

Max^m Departure = 972222.5282

Min^m " = 971966.2113

Difference: 256.3169

A = (3128850, 971950)

C = (3128850, 971950)

A (3128850, 971950)



831.909. TBM

831.364. EM₉

EM₈ 830.282

831.693. ①

832.003. EM₈

EM₂

831.525. ②

831.367. EM₇

EM₆ 828.282

830.522. ③

EM₅ 828.289

829.827. EM₆

EM₅

829.067. ④

828.422. EM₅

EM₄

827.344. ⑤

826.418. EM₄

EM₃

825.866. ⑥

825.526. EM₃

EM₂

824.892. ⑦

824.191. EM₂ EM₁

EM₁

824.213. CP₂ ⑧

825.3. CP₂

EM₁/CP₂

826.124. ⑨

827.306. CP₁. CP

Minor

CP₁ 827.306

① 828.349

EM₁ 830.354

② 830.291

EM₂ 830.271

EM₃ 830.075

③ 829.763

EM₄ 829.4835

EM₅ 828.2985

EM₅ 828.4305

EM₁ 8987.82, 2044.596 (EM₅ EM₅ = 0.0085)

EM₂

EM₃

EM₄

EM₅

	16.987	
CP ₁	10.96	7.815
	22.528	
CP ₂	26.47	13.89
	36.	
EM ₁		47.314
EM ₂		8.243
EM ₃		37.49
36.JL	11.421	
7.23	16.21	

minor

minimum latitude = 3128936.81

maximum latitude = 3129137.493

D_{diff} = 200.683

minimum departure = 971966.2113

maximum departure = 972207.8153

D_{diff} = 241.604

N
E
Origin = (3128925, 971950)

EM₁

N: 3128916.457

E: 972216.9873

Z: 825.526

EM₃

N: 3128986.871

E: 972222.5282

Z: 826.418

SN = 1

N =

E =

Z =

CODE - CP₁

10mm

Detailing B₁ to total station

EM₅

N: 3129135.241

E: 972147.3139

Z: 829.827

EM₄

N: 3129063.35

E: 972207.8153

Z: 828.420

EM₅

N: 3129135.241

E: 972058.2113

Z: 829.827

EM₆

N: 3129137.493

E: 972058.2428

Z: 831.367

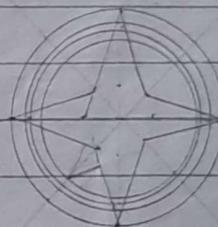
EM₇

N: 3129086.108

E: 972011.4214

Z: 832.003

7
A₇



3128

EM₂

N : 3129009.934

E : 971966.5913

Z : 831.364

H 90

CP₁

CP₂

N : 3128836.81

E : 972012.788

Z : 827.306

N : 3128880.51

E : 972067.6558

Z : 825.3

②

EM₁

N : 3128867.67

E : 972149.0073

Z : 824.191

Inst
data
EM₆

N : 3129137.490

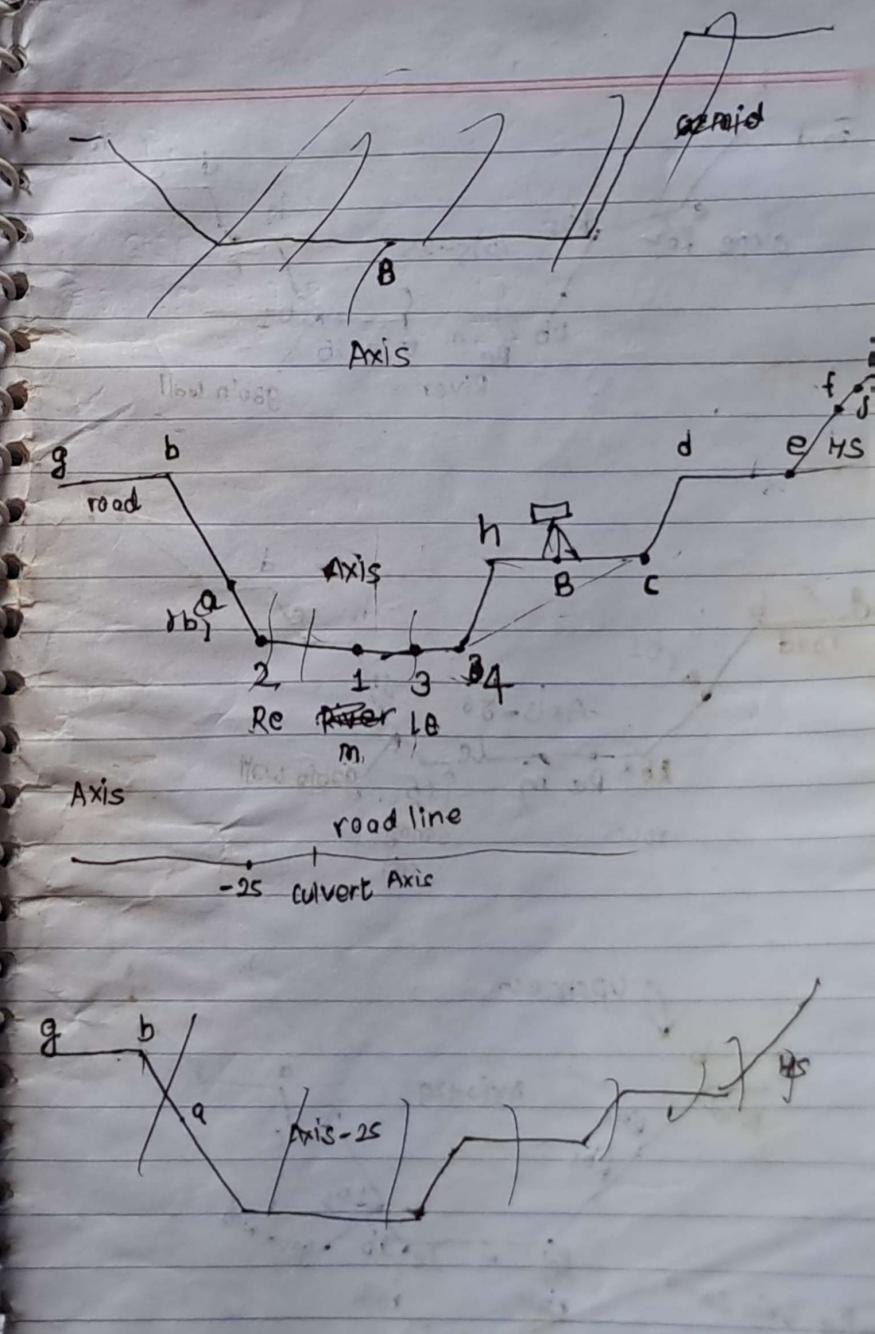
E : 970058.238

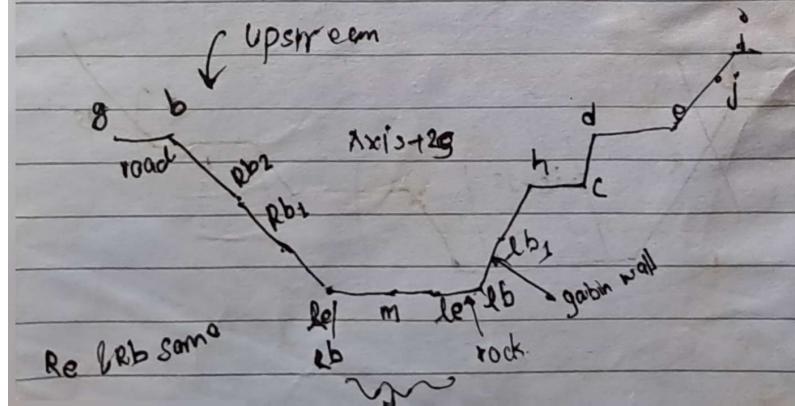
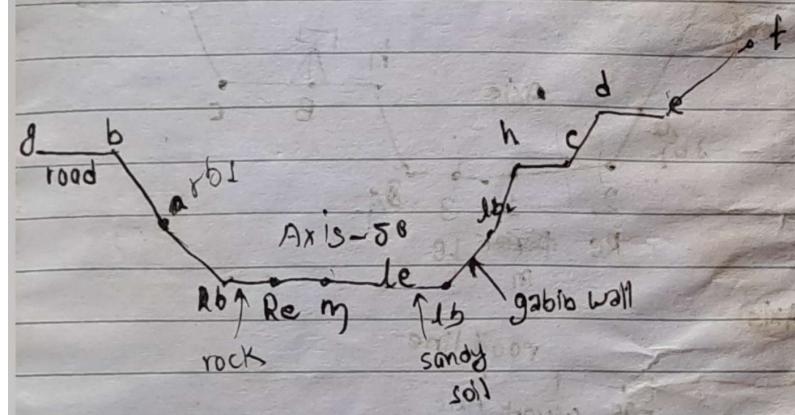
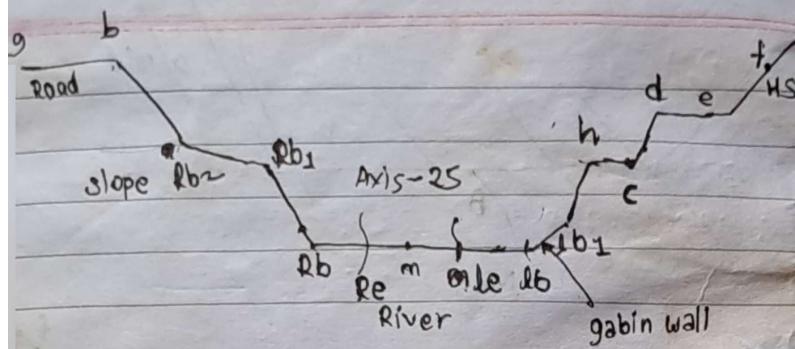
Z : 150
bridge
retaining
wall

Road line

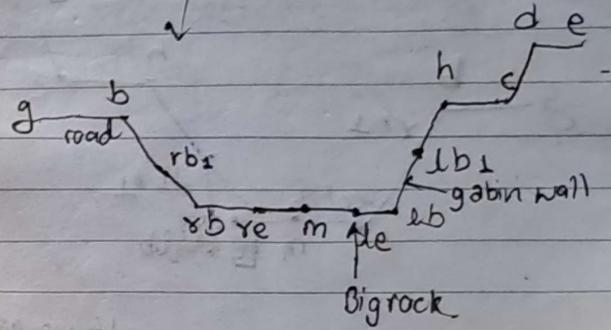
-25 culvert Axis
-50
start of meandering

BS

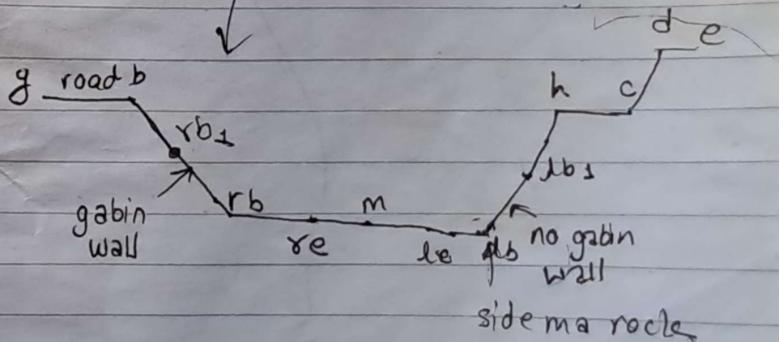




Axis + 50



Axis + 75

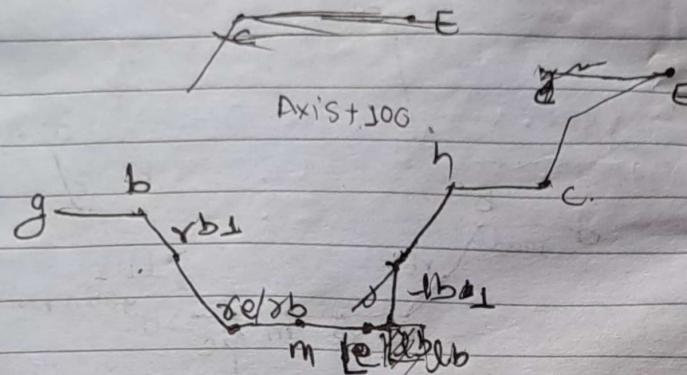
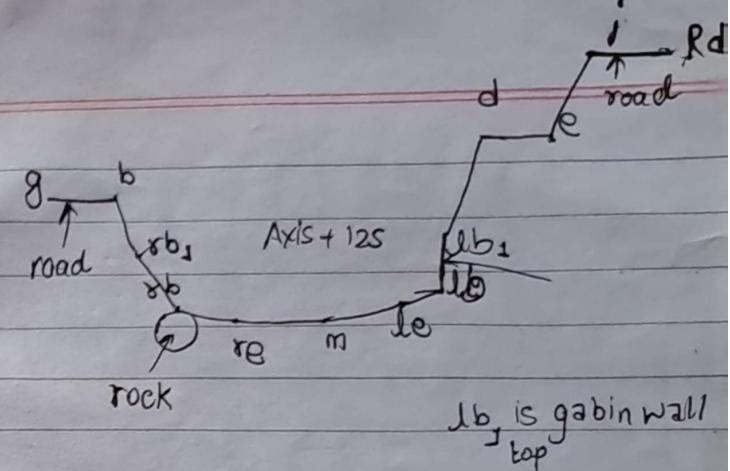
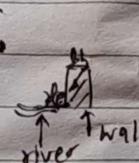


1.510

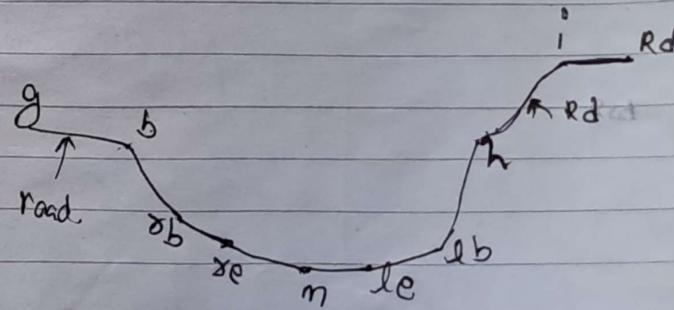
1.762

2.014

100m upstream

**re** and **rb** same.**lb** ma gabin wall
re and **lb** same

Axis + 150 → ab bridge axis.



- Abstract → 200~800 words
Intro - obj - theory - Conclusion
- Table of Content
- Workings schedule
- short form / full forms
- Chapter 1 - introduction
(Survey, Survey camp, ---)

margin → custom →

{ Top / 120 mm 8 " "
 Binding ← 1.5 " (left) }

font → Times New Roman
font size → 12

first heading →
(chap 1, 2, ---)

Times New Roman.

font - 14 / bold.

heading 2

13 - (13 cm 13)

Times new roman

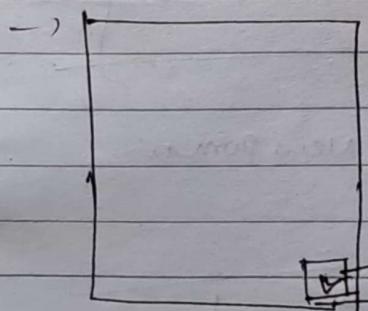
spacing

1.5 / 1.15

→ ACK → ~~before~~ ^{Chapter 1} before page

(i, ii = ~~remove~~)

→ (Chapter 1 - ---)
(1, 2, 3, ... ~~remove~~)



→ page No.