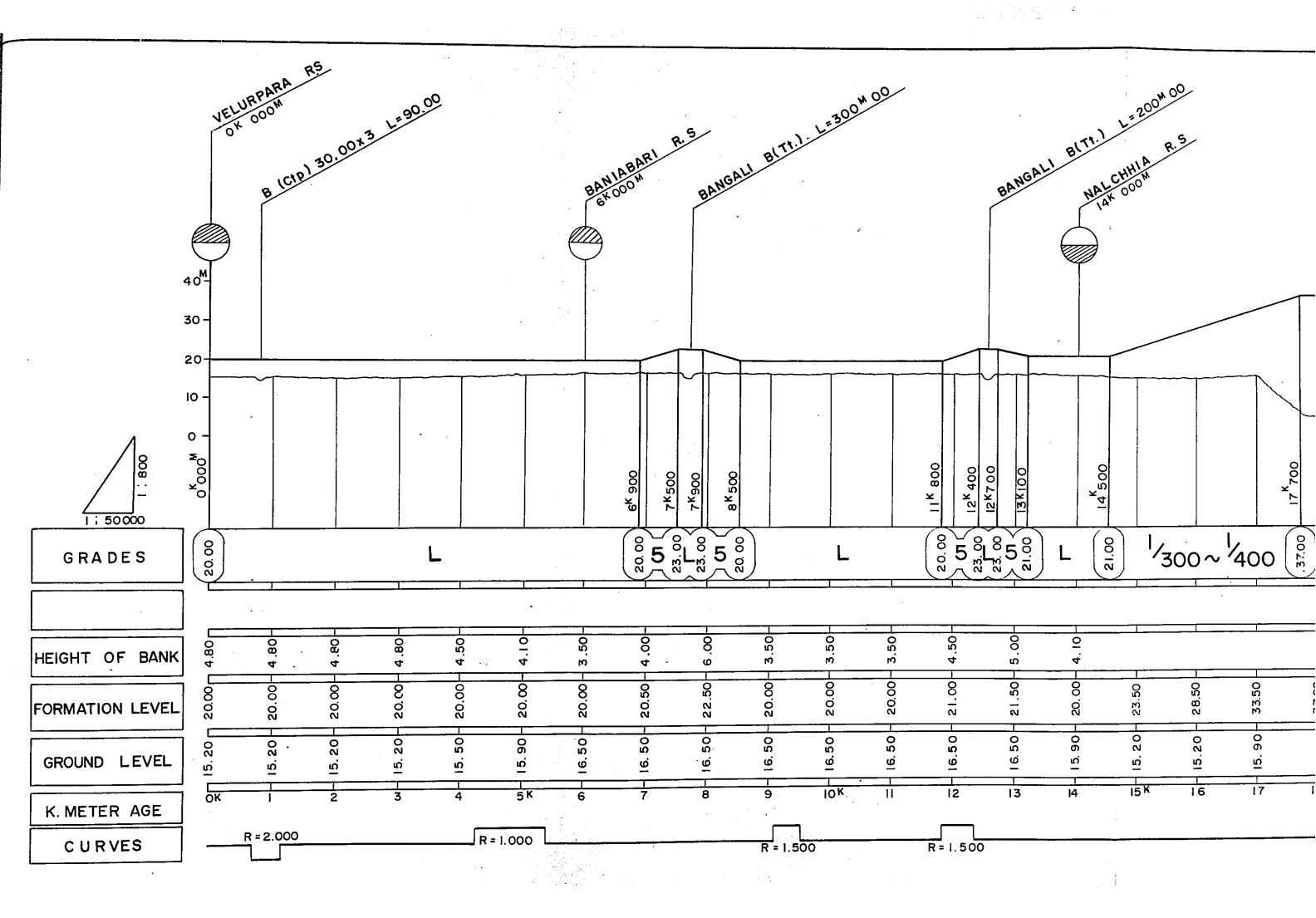


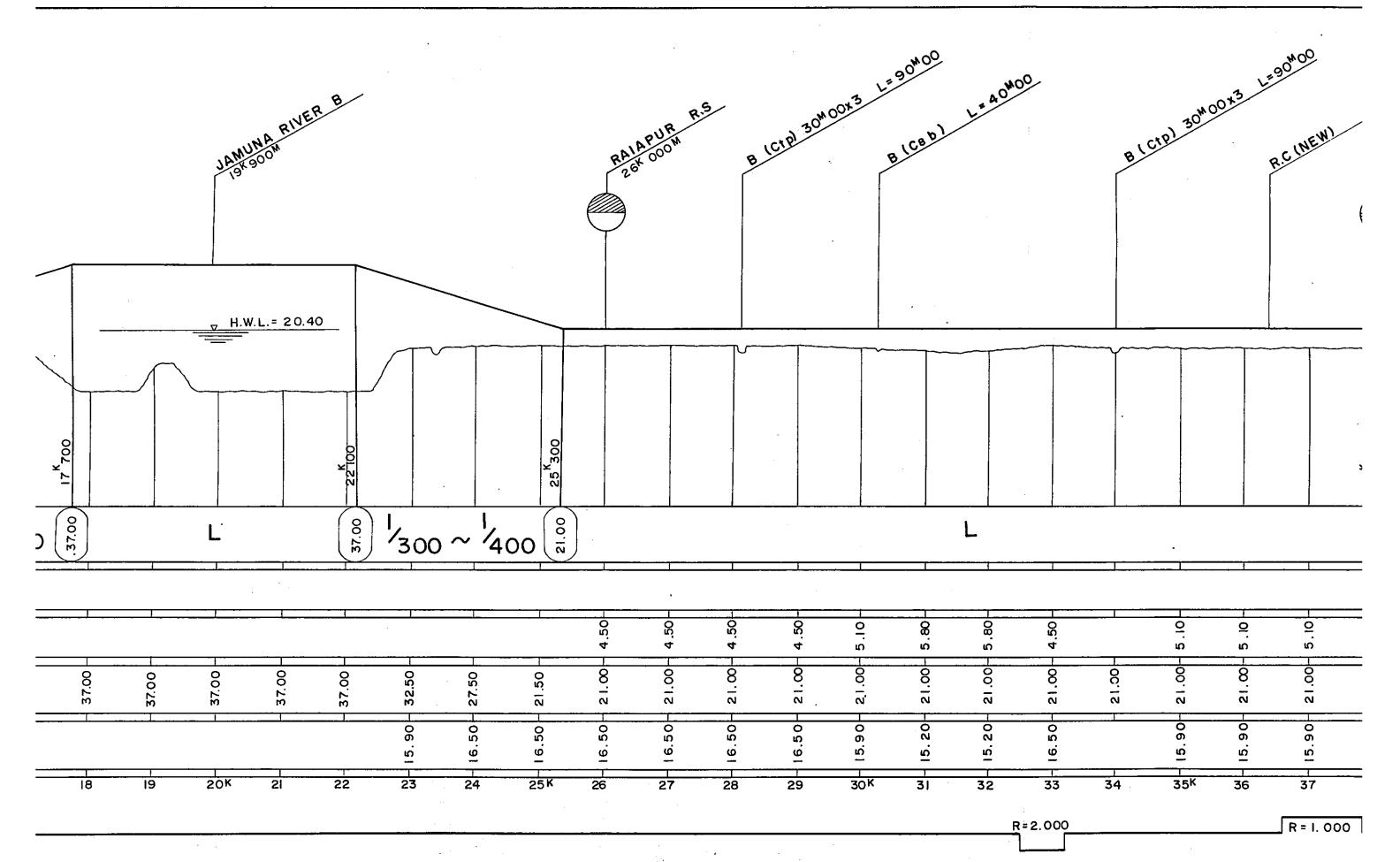
APPENDIX "4"

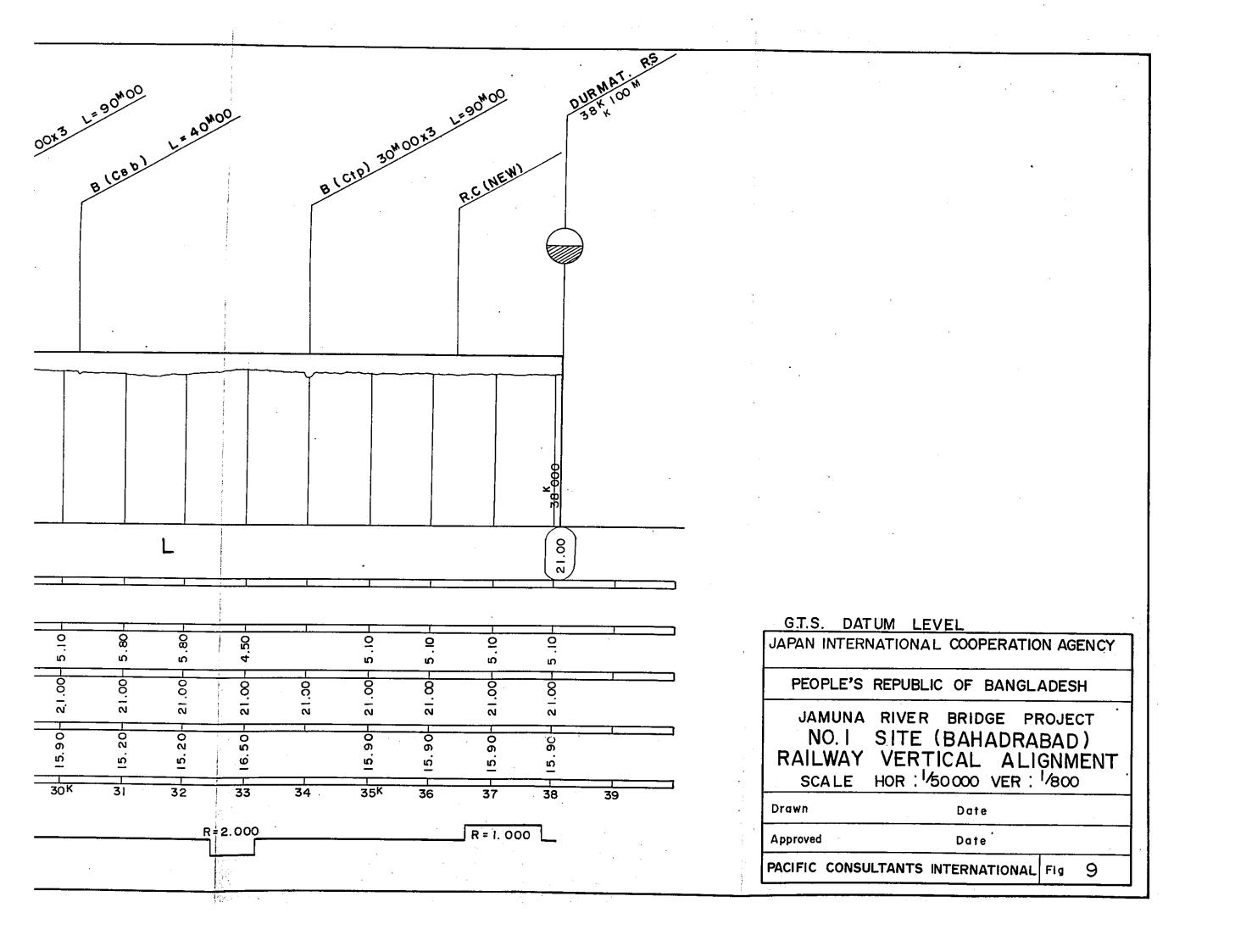
RAILWAY VERTICAL ALIGNMENT

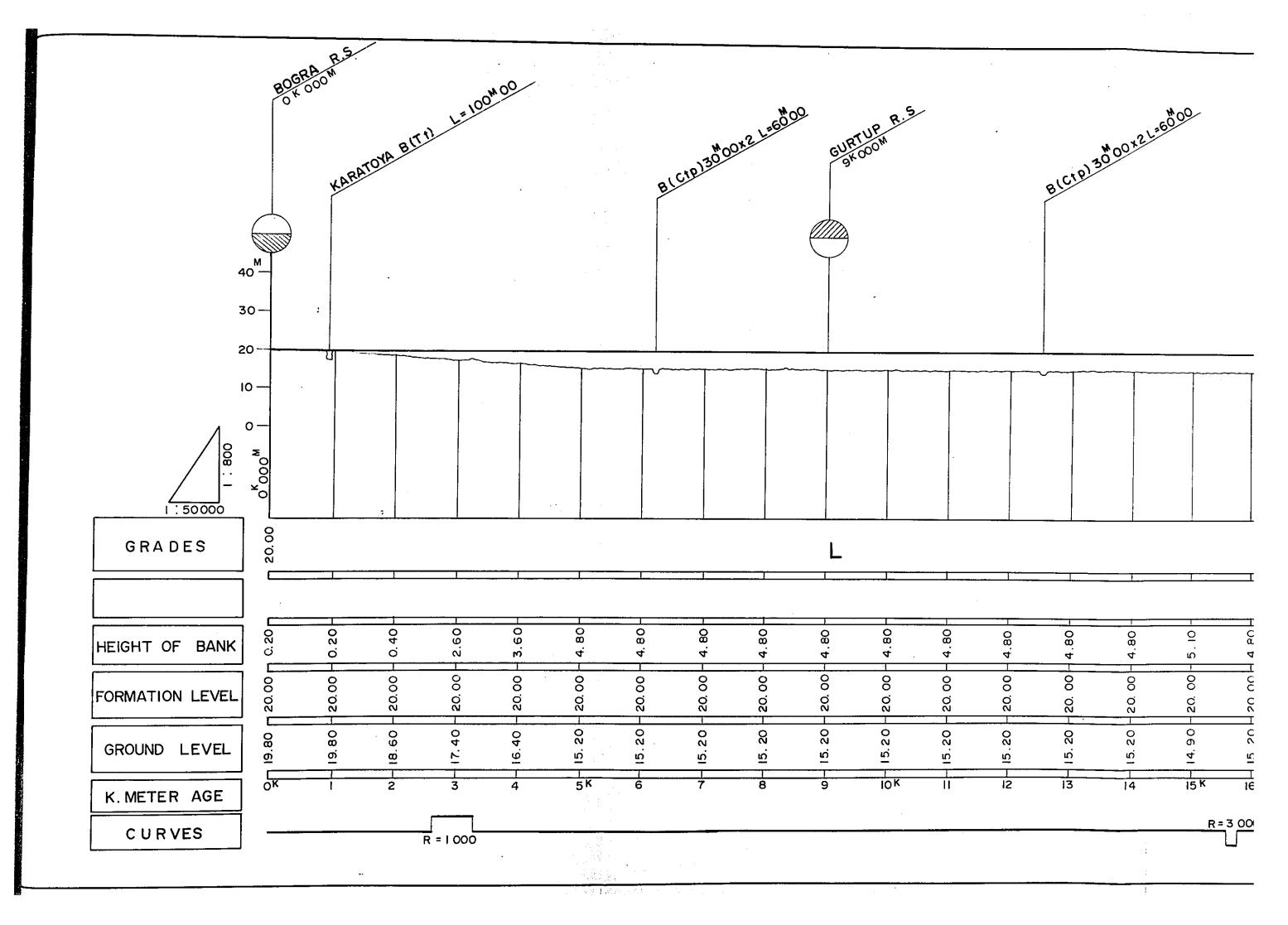
ROUTES FOR NO. 1, NO. 2, NO. 3 AND NO. 4

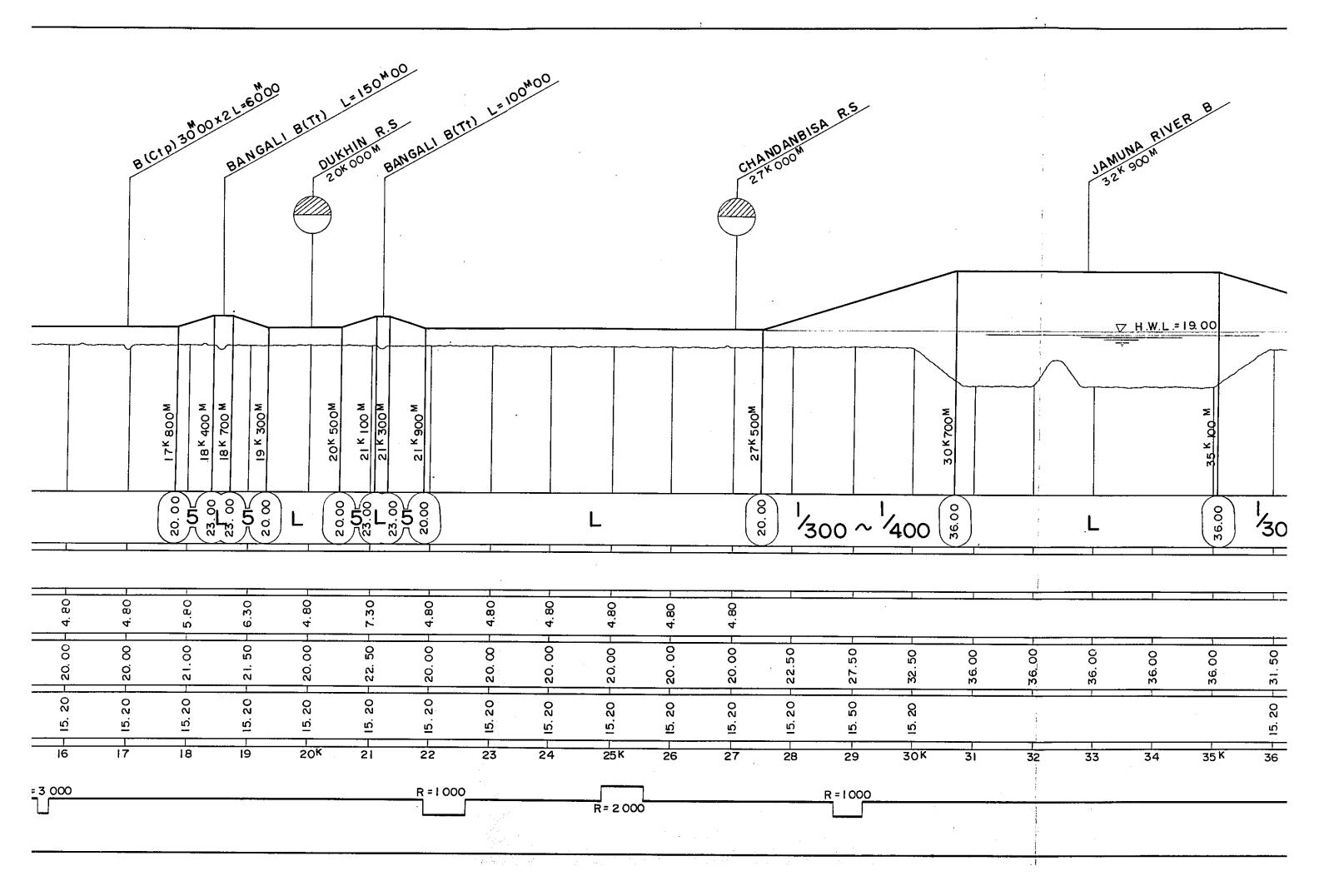
(Figures)

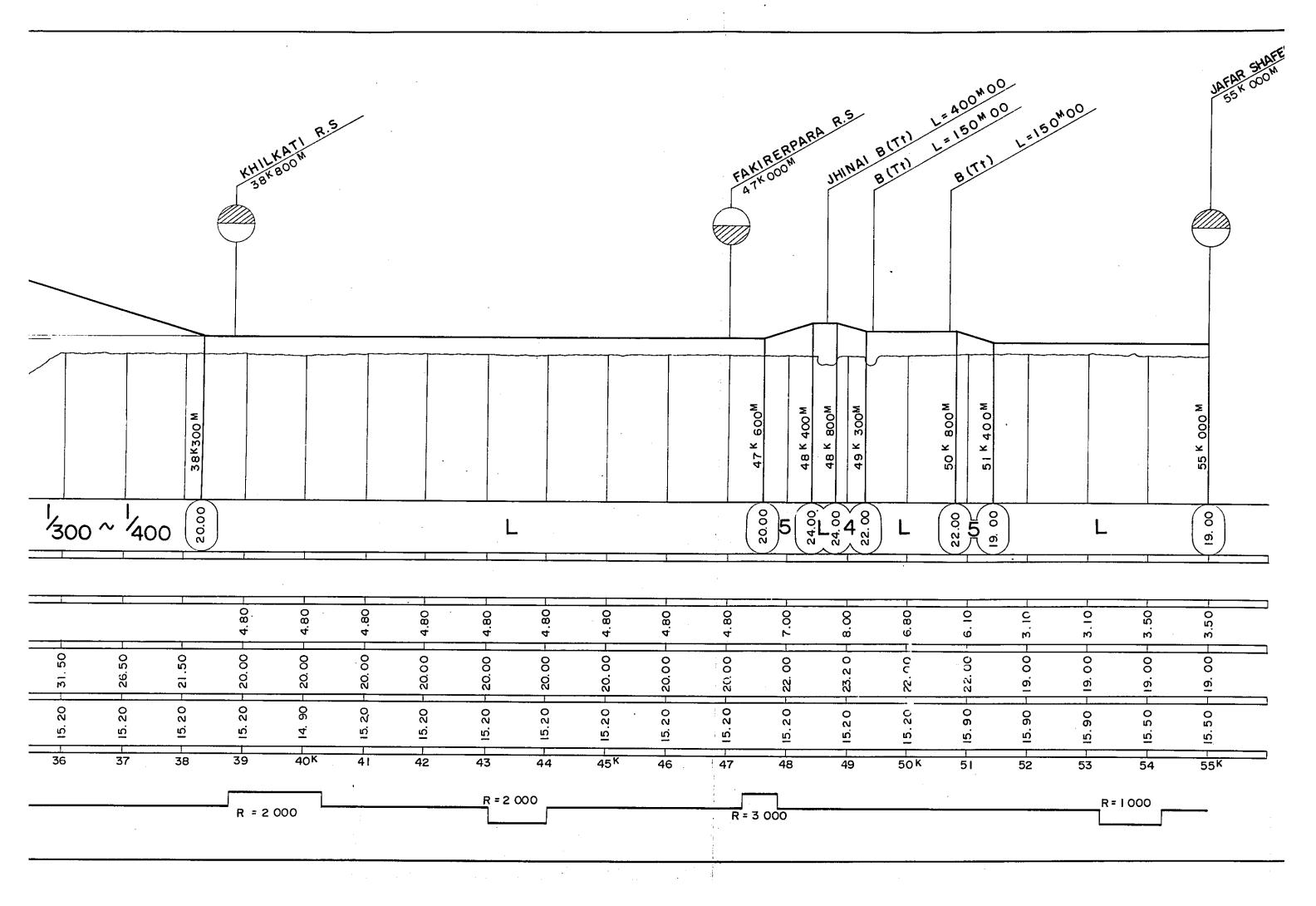


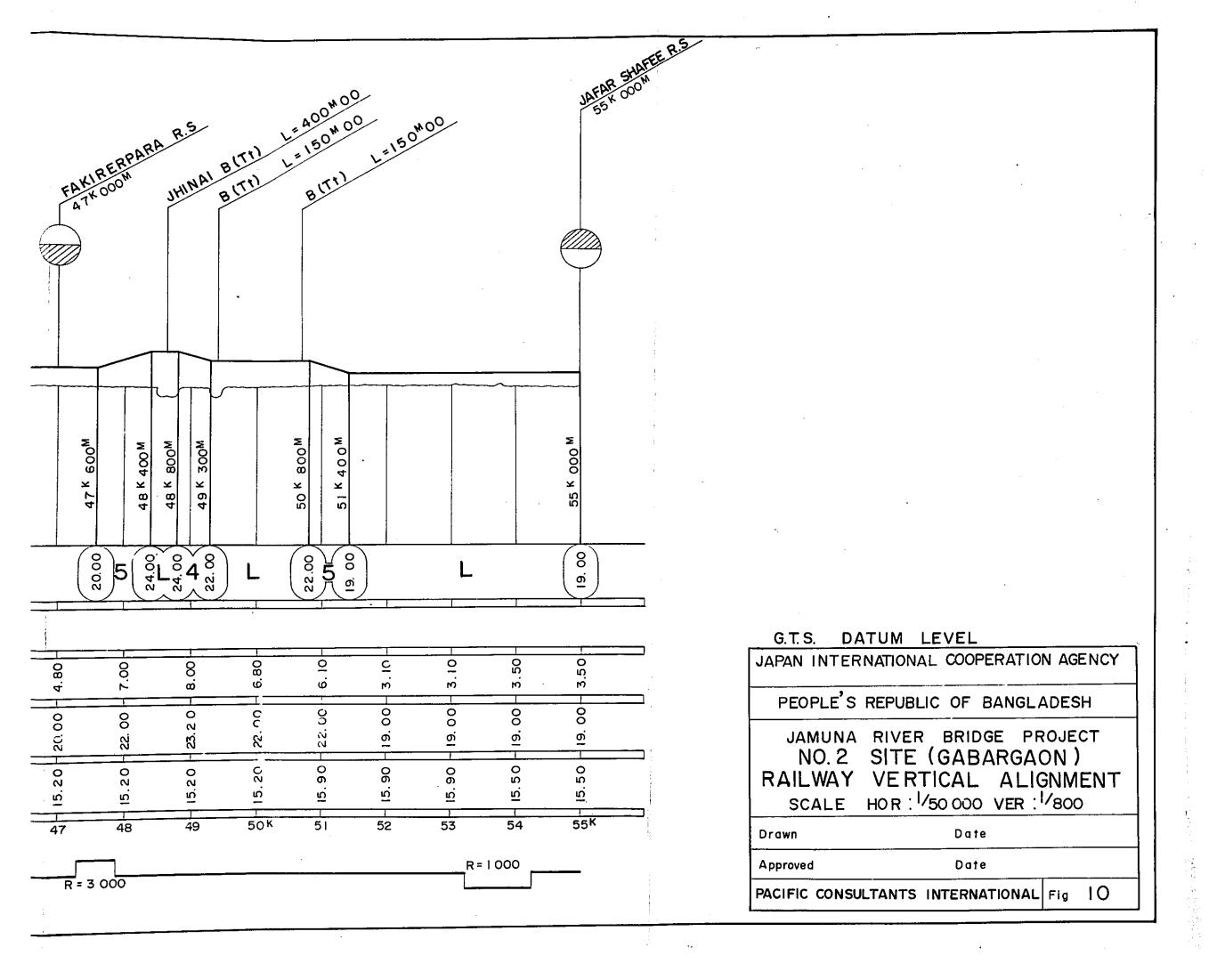


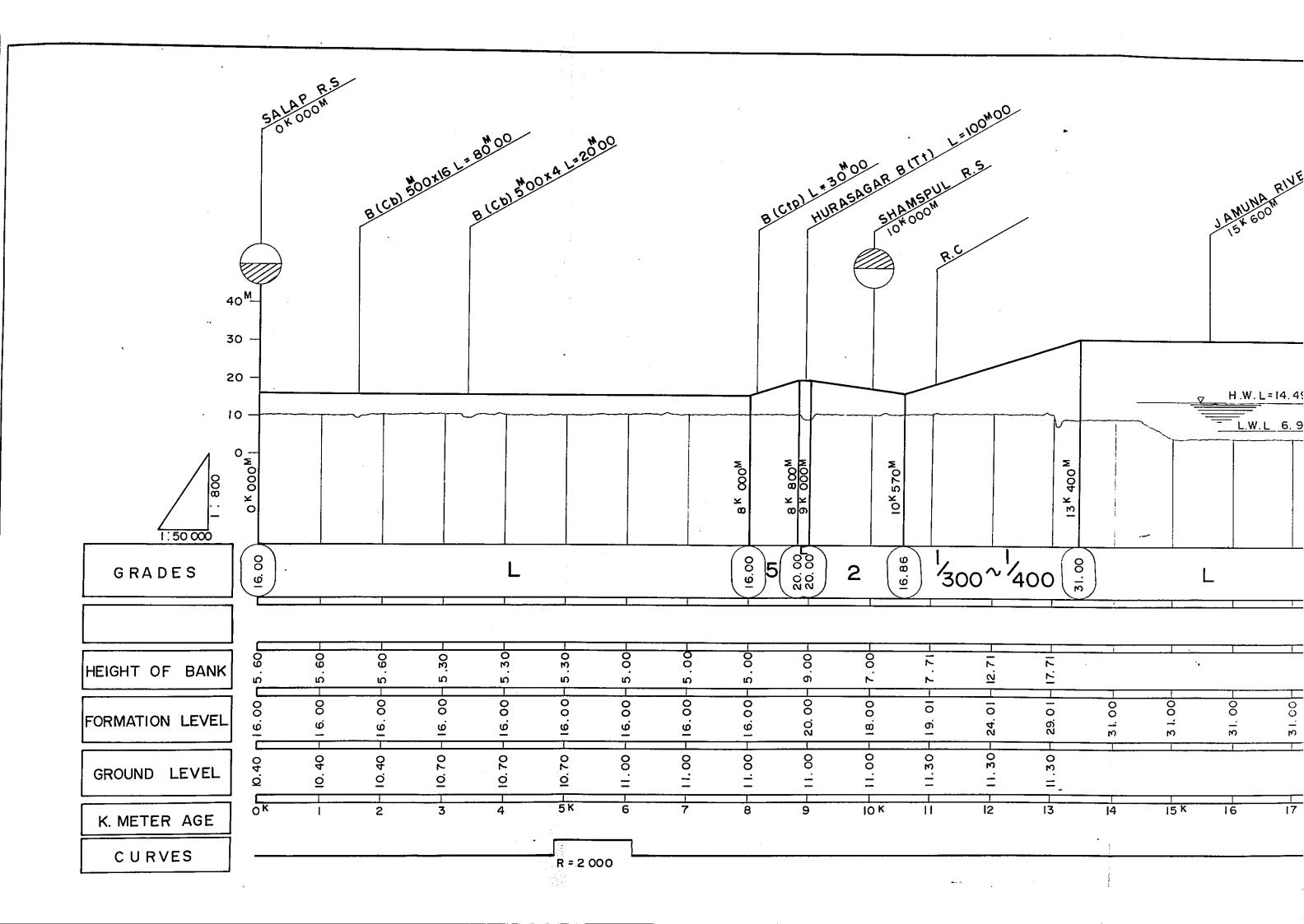


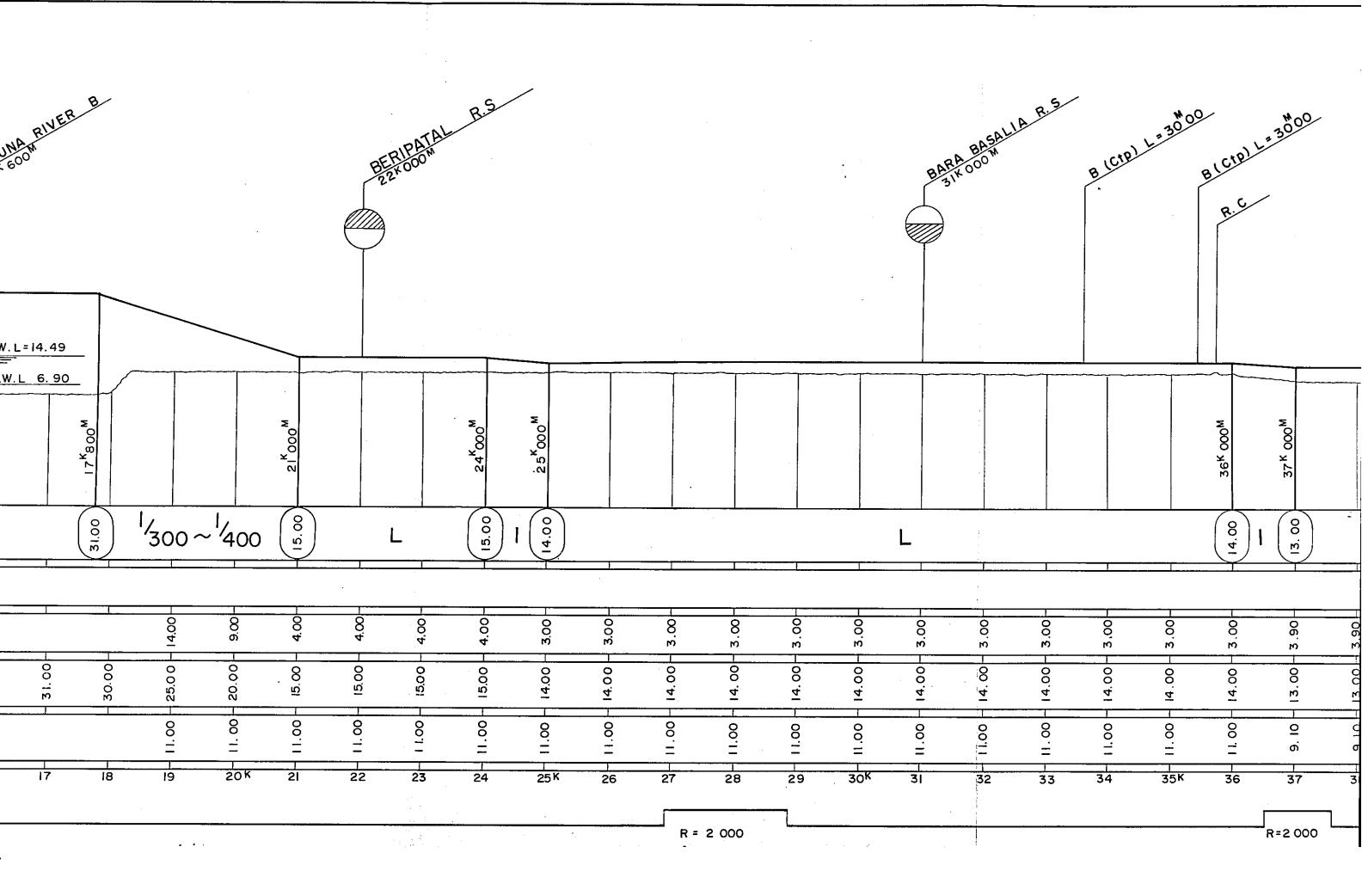


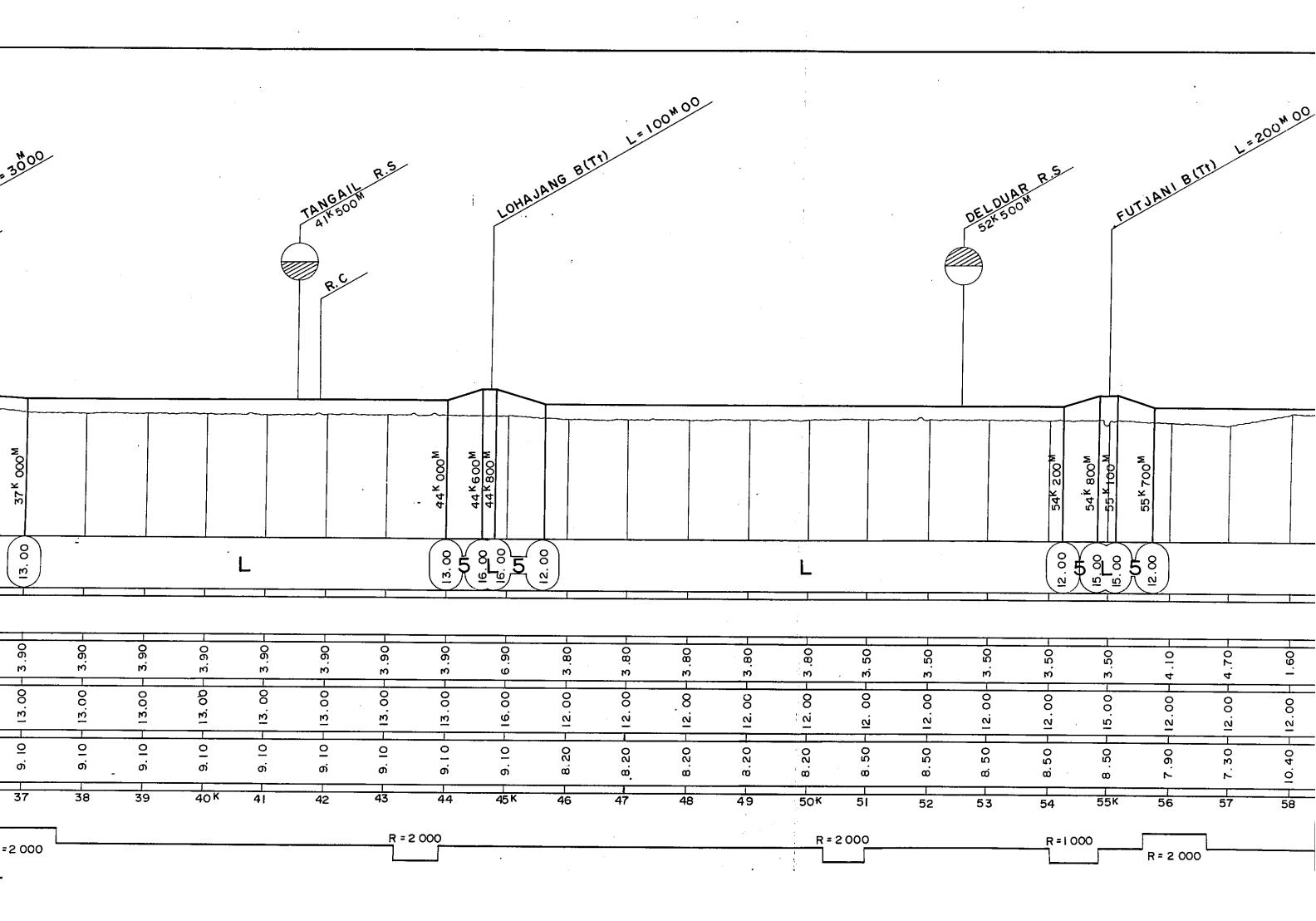


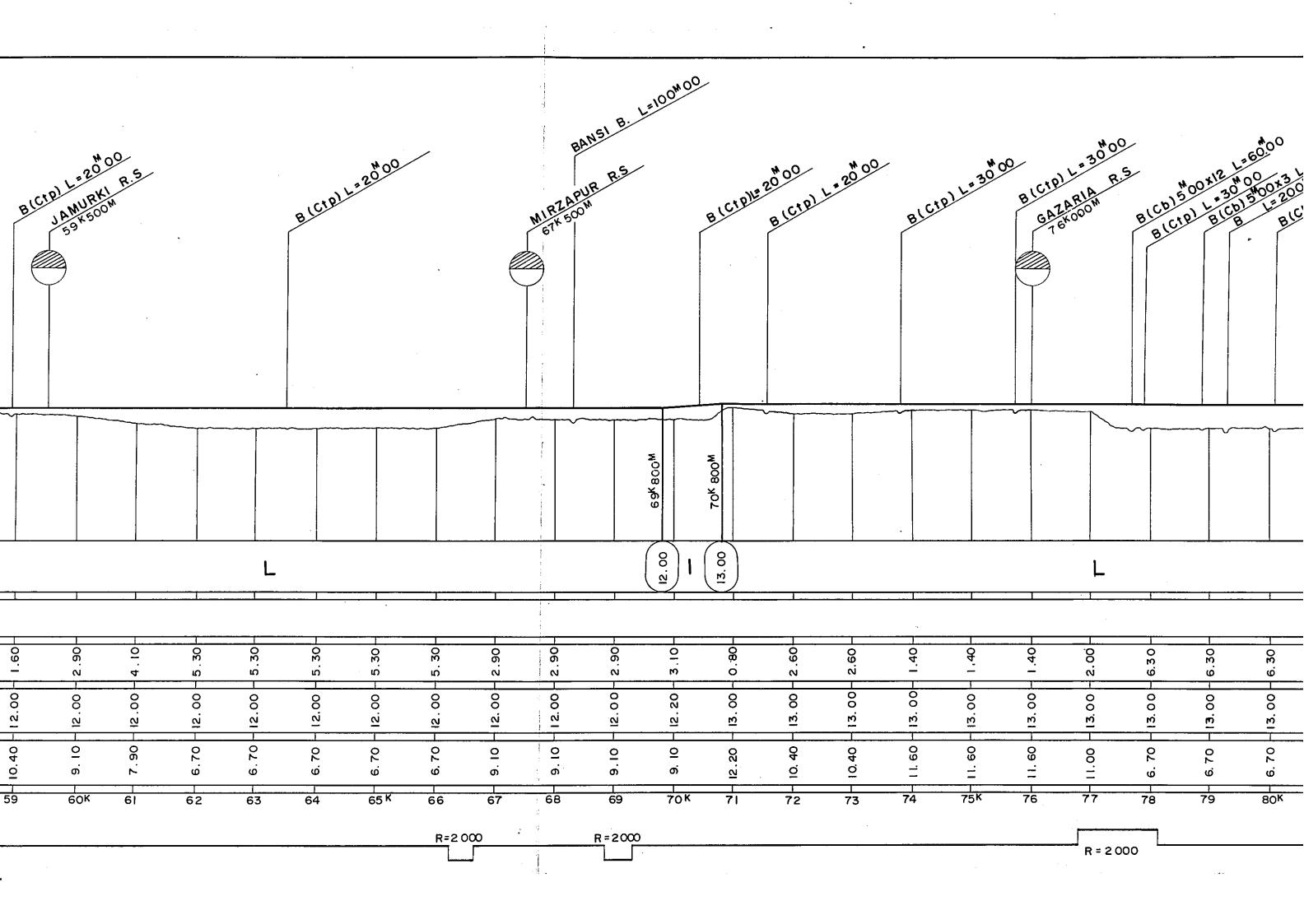


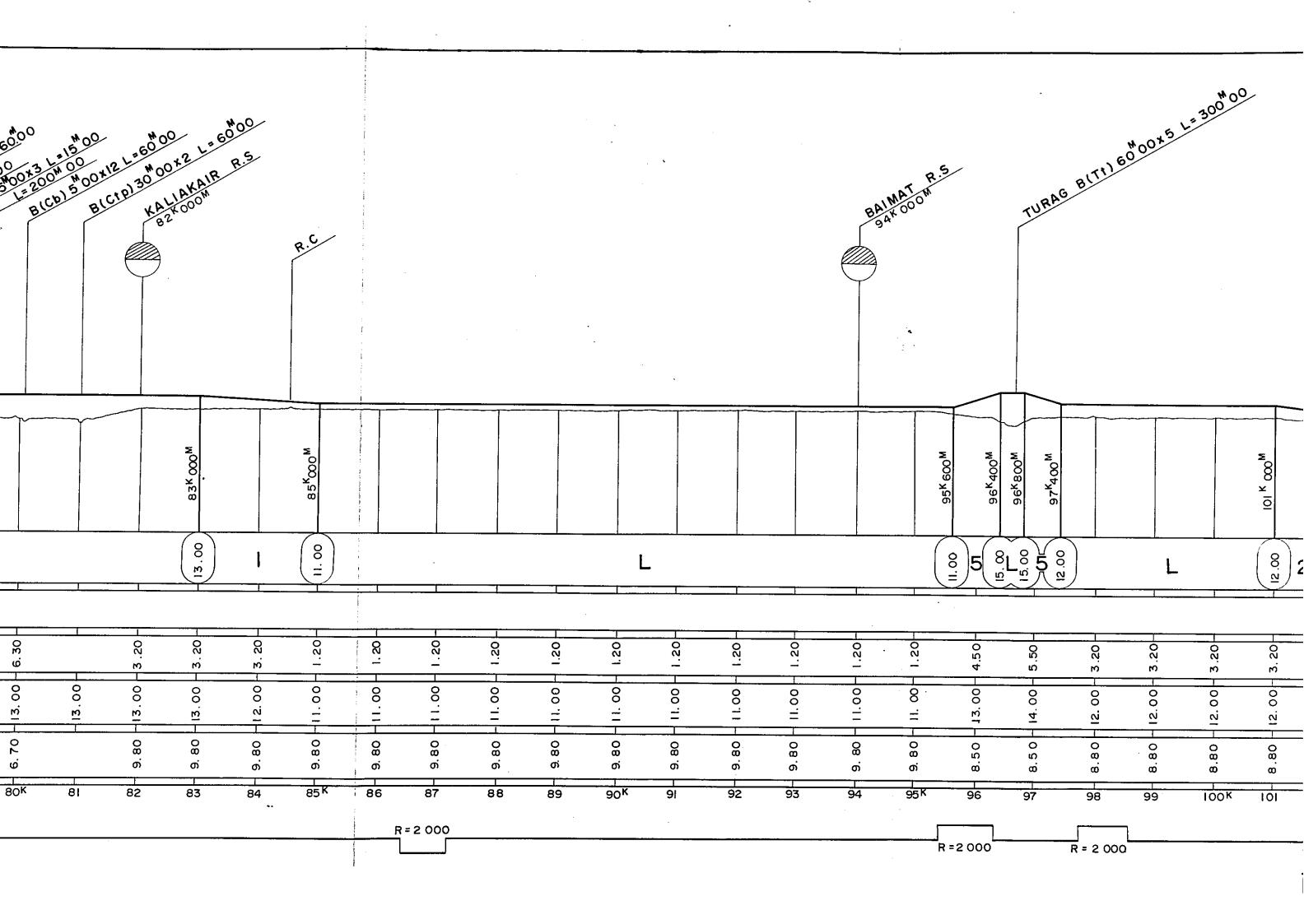


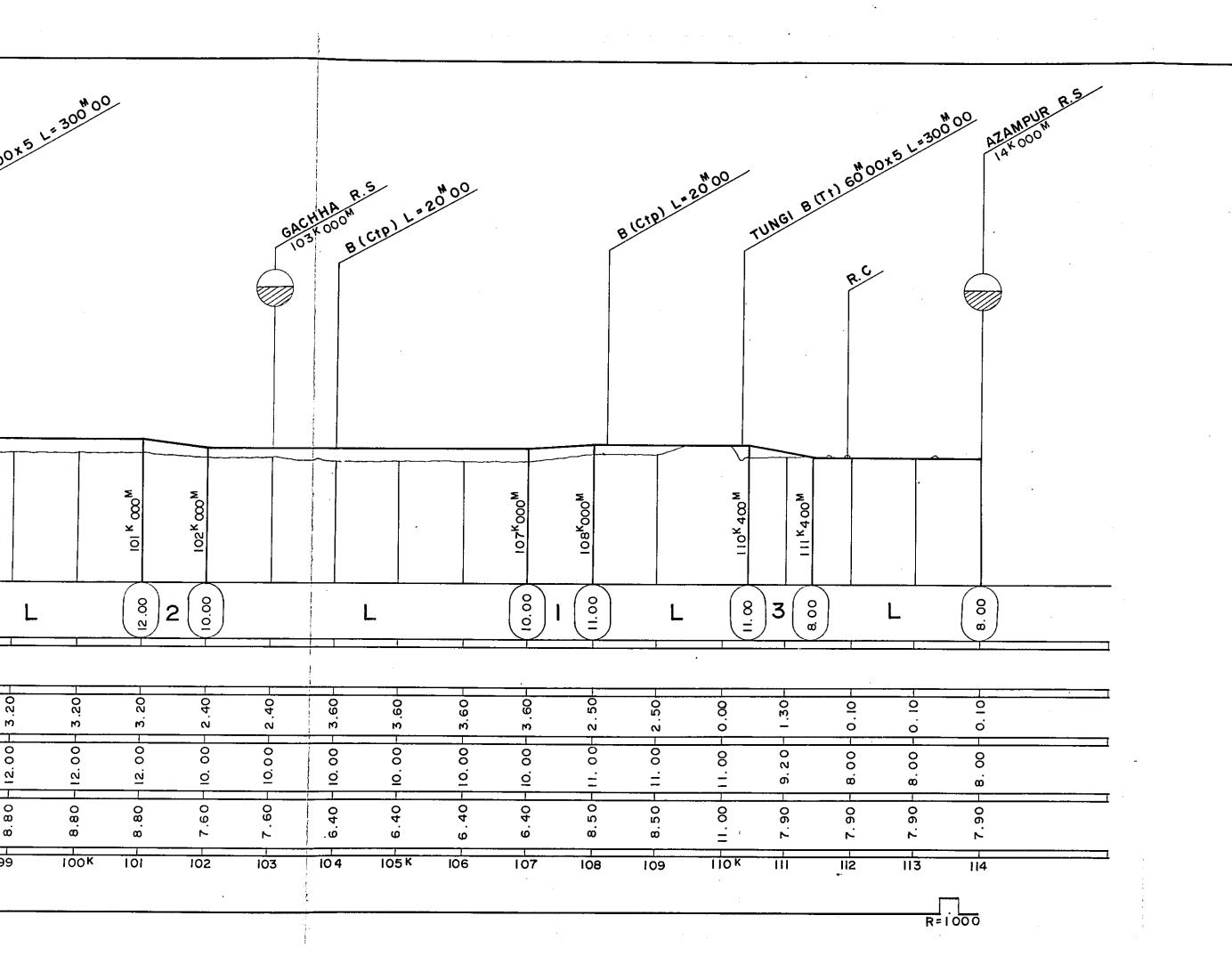












G.T.S. DATUM L
JAPAN INTERNATION

PEOPLE'S REPUE

JAMUNA RIVER

NO. 3 SITE

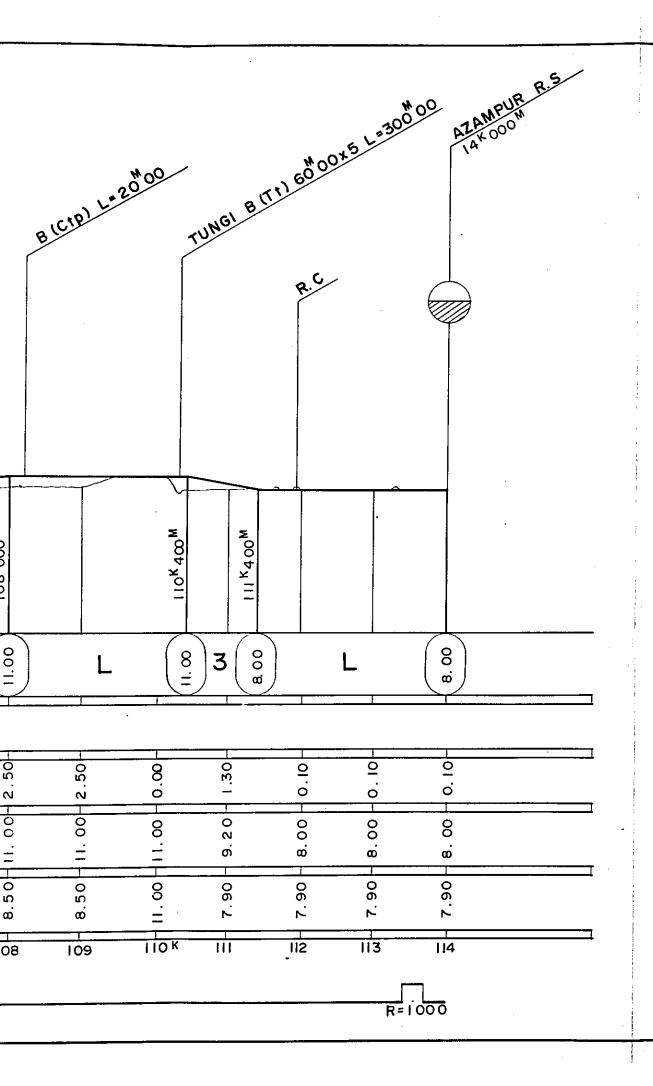
RAILWAY VER

SCALE HOR:

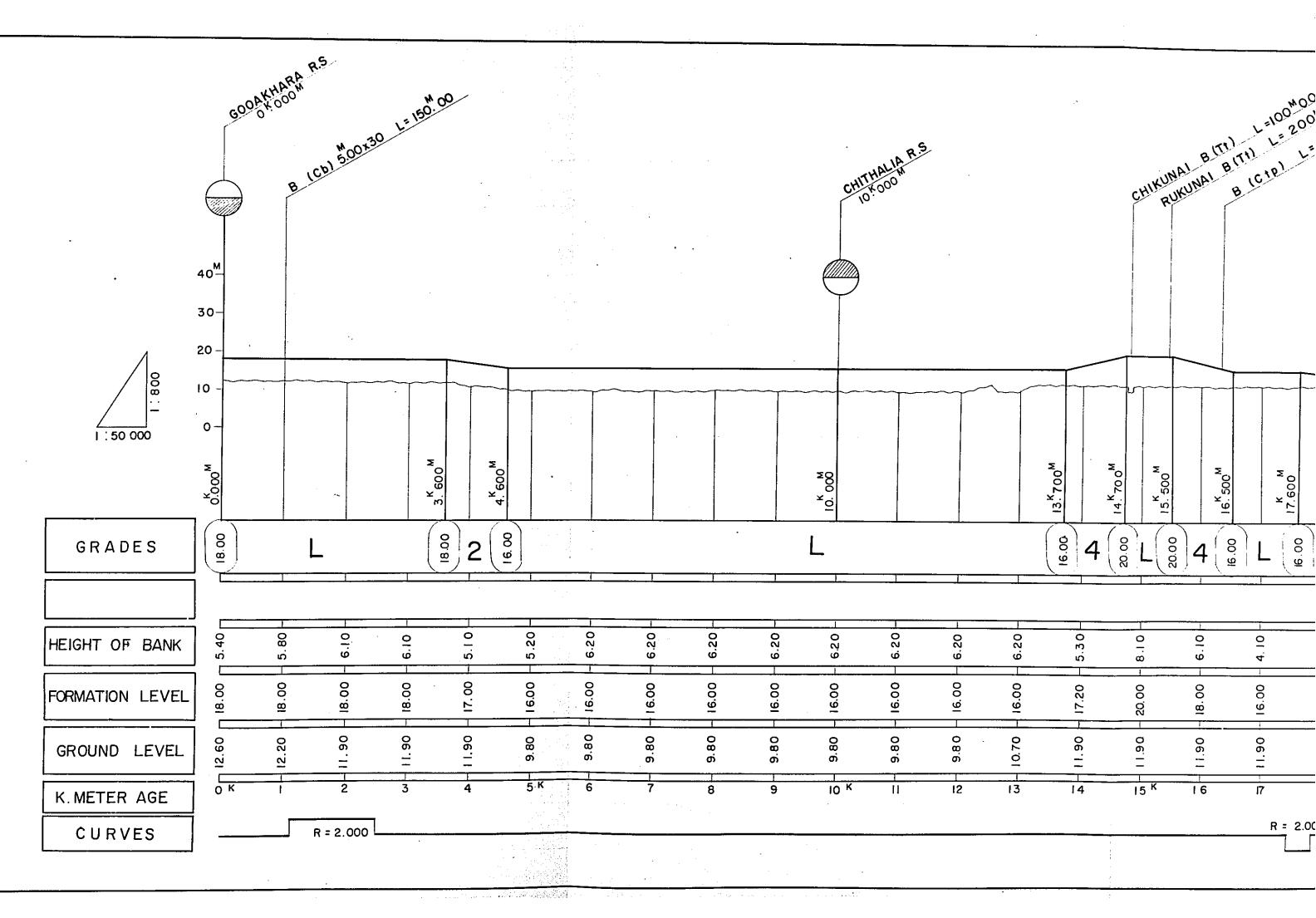
Drawn

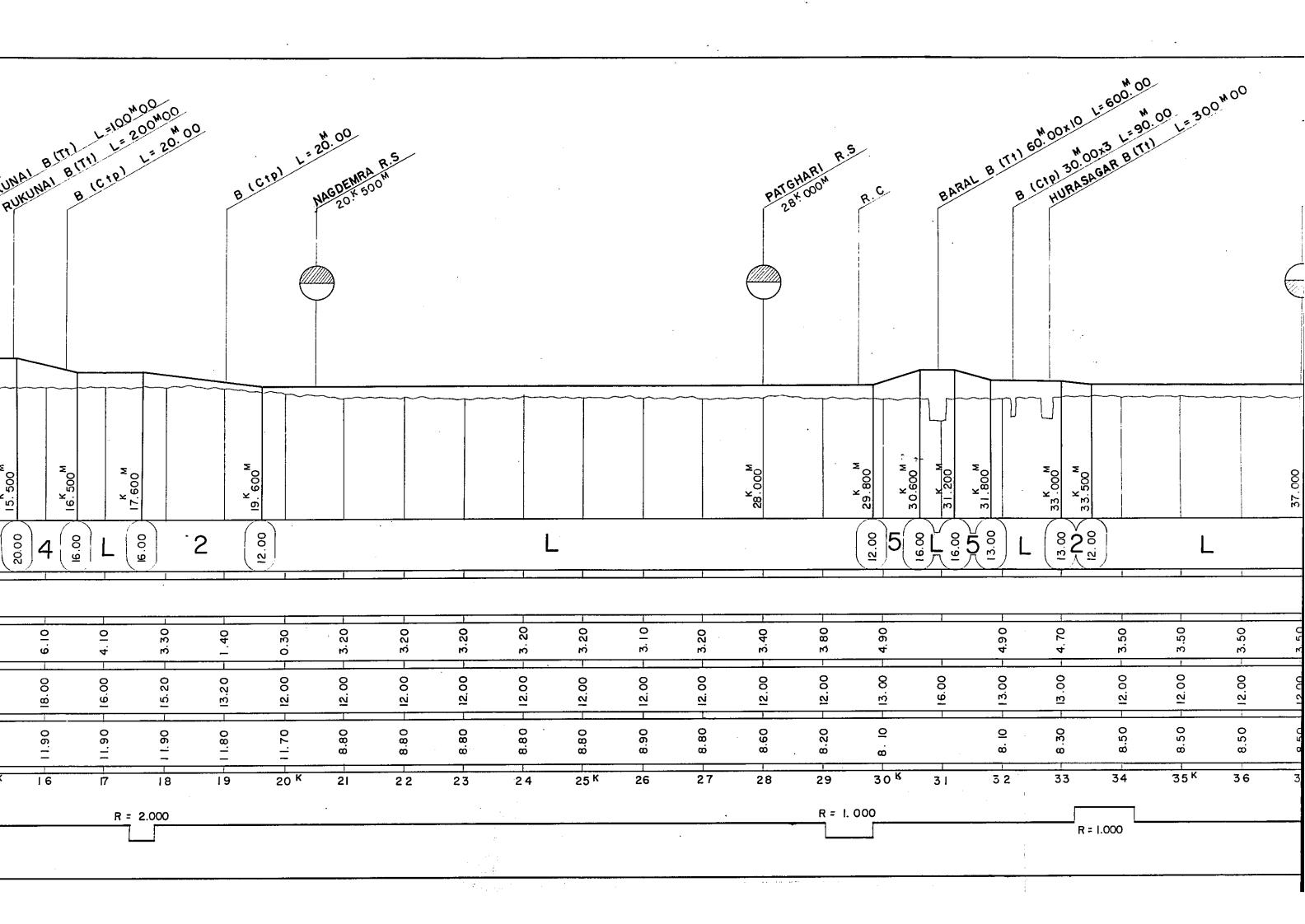
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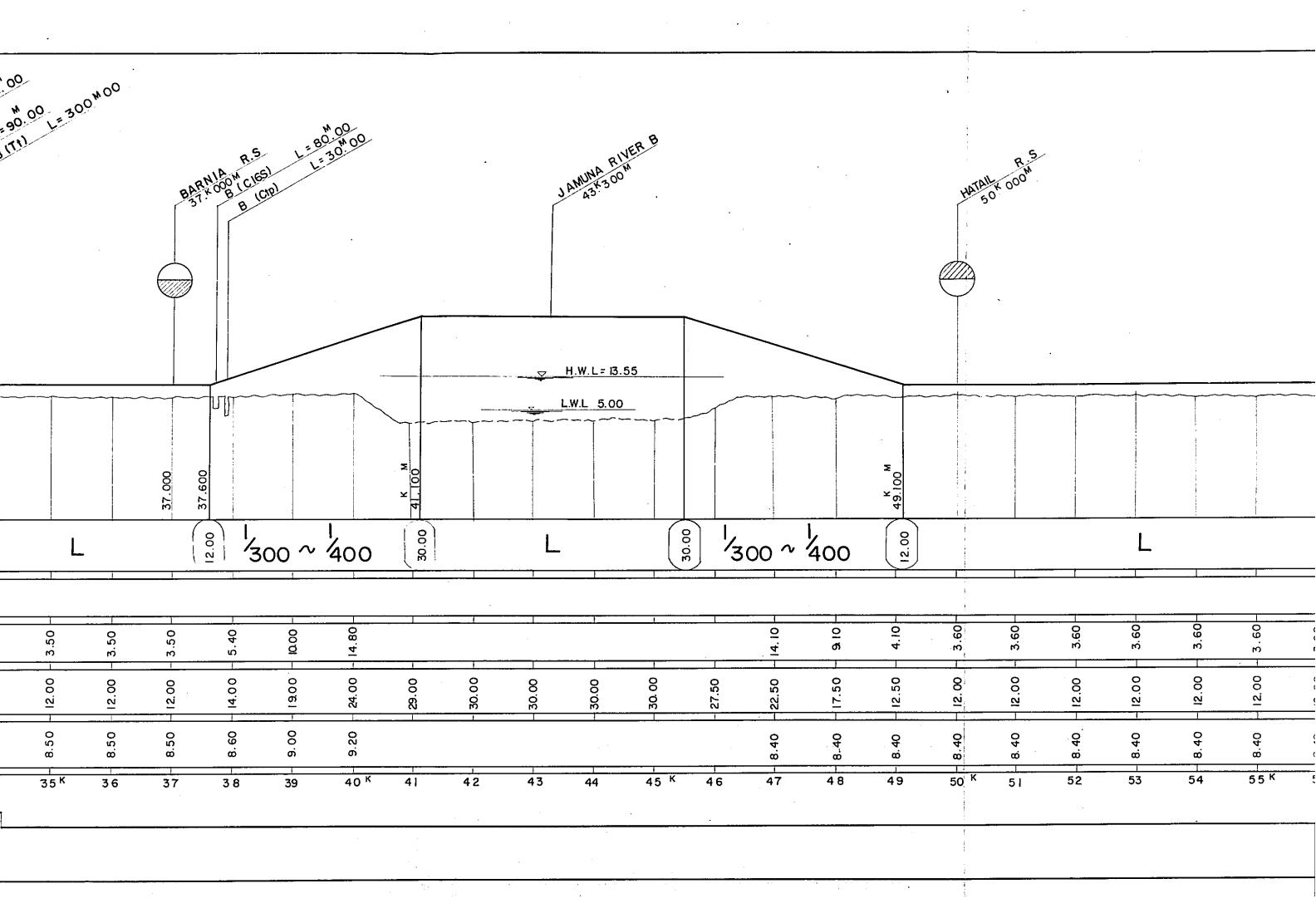
PACIFIC CONSULTANTS

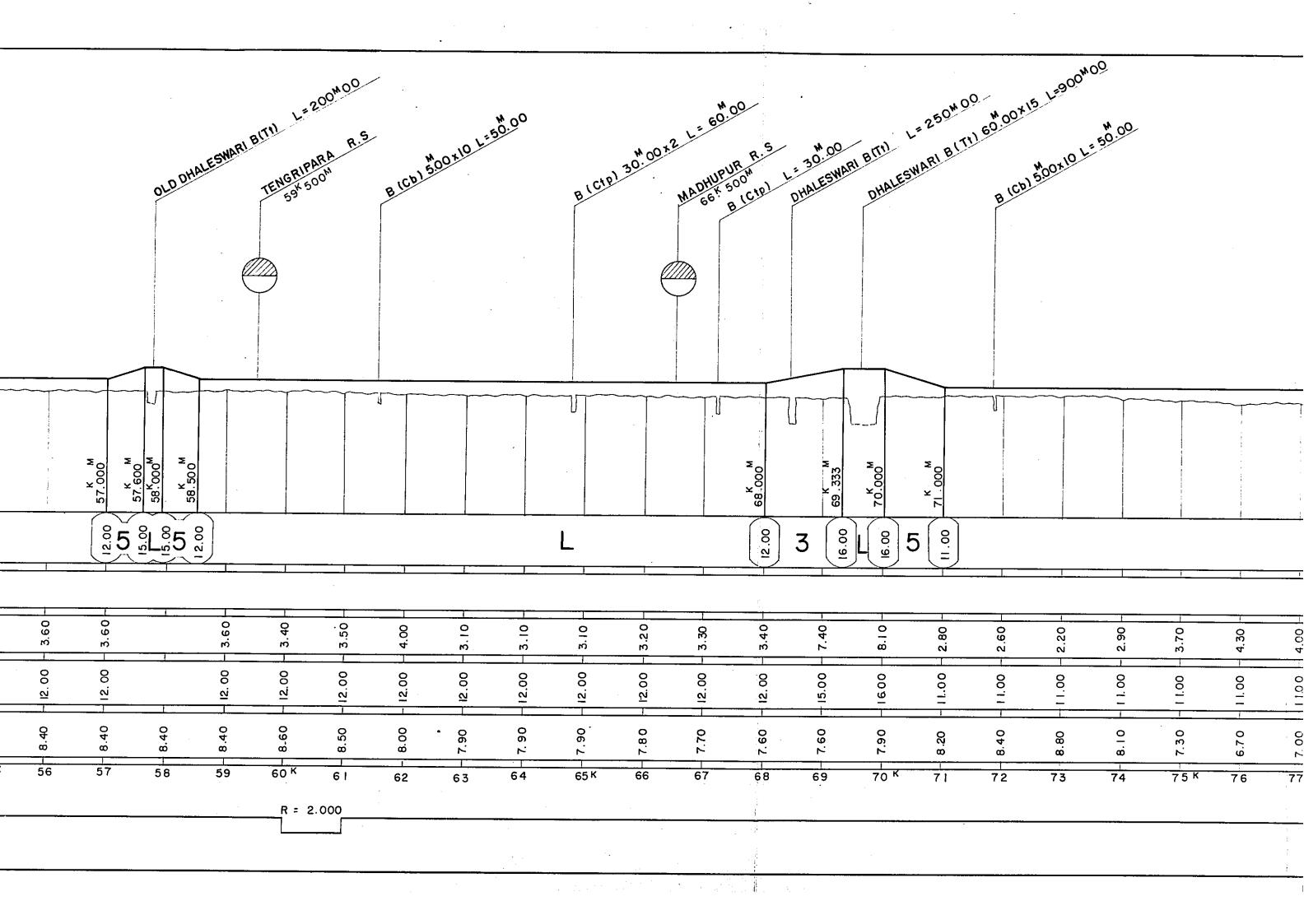


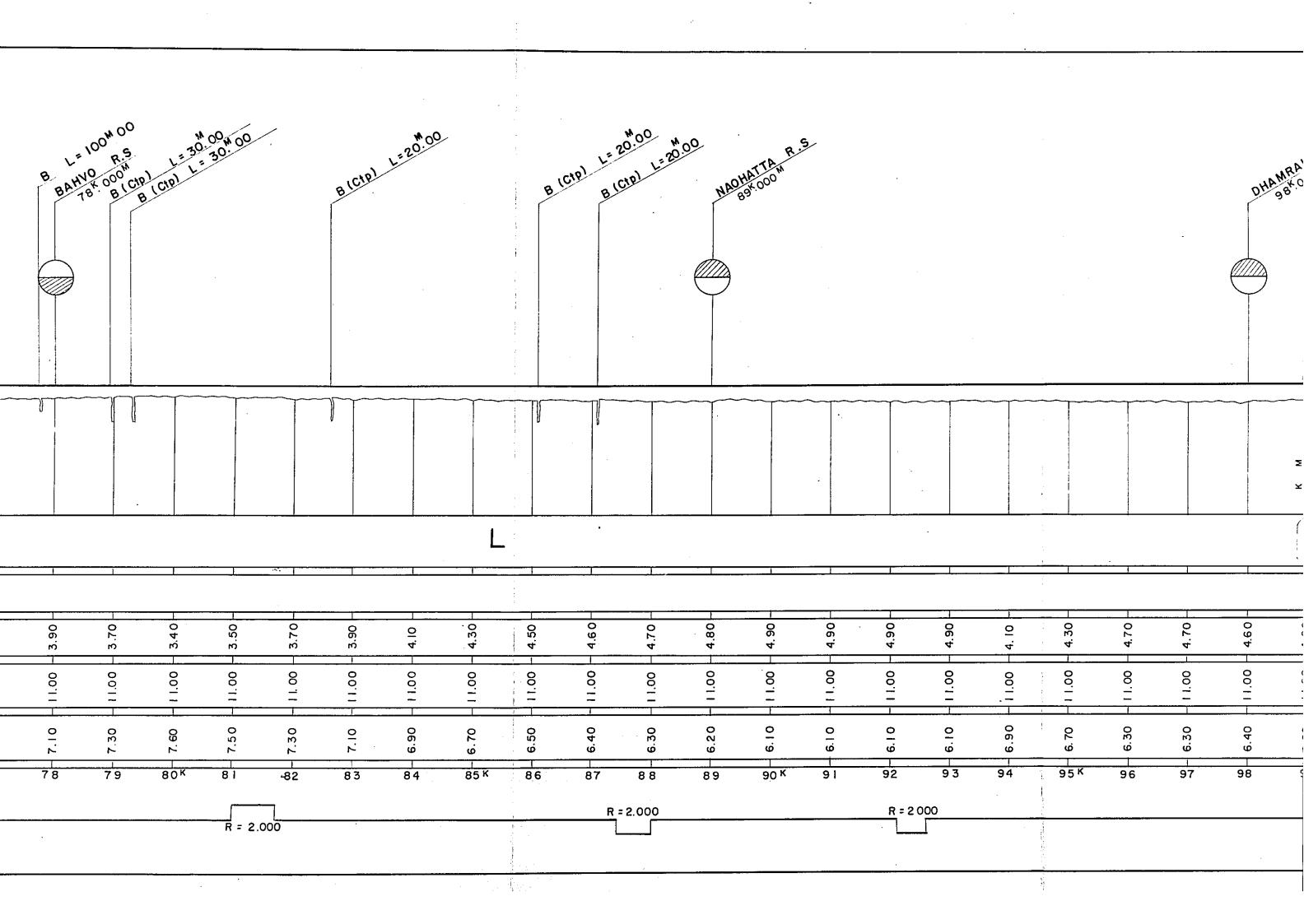
G.T.S. DAT	UM LEVEL
JAPAN INTERNATIONAL COOPERATION AGENCY	
PEOPLE S	REPUBLIC OF BANGLADESH
JAMUNA	RIVER BRIDGE PROJECT
NO. 3	SITE (SIRAJGANJ)
RAILWAY	VERTICAL ALIGNMENT
SCALE	HOR: 1/50000 VER: 1/800 ,
Drawn	Dat e
Approved	Date
PACIFIC CONSULTANTS INTERNATIONAL Fig	

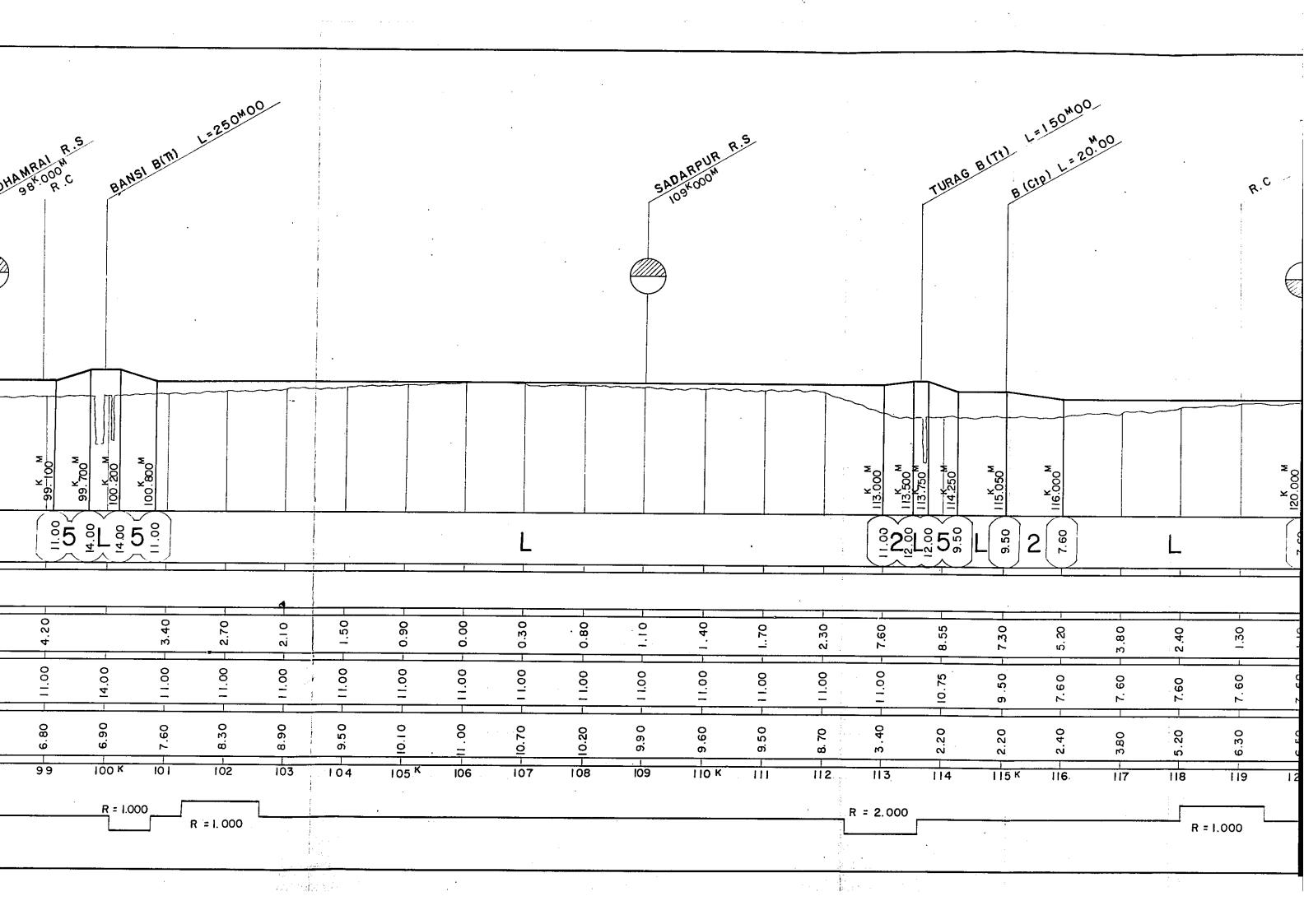


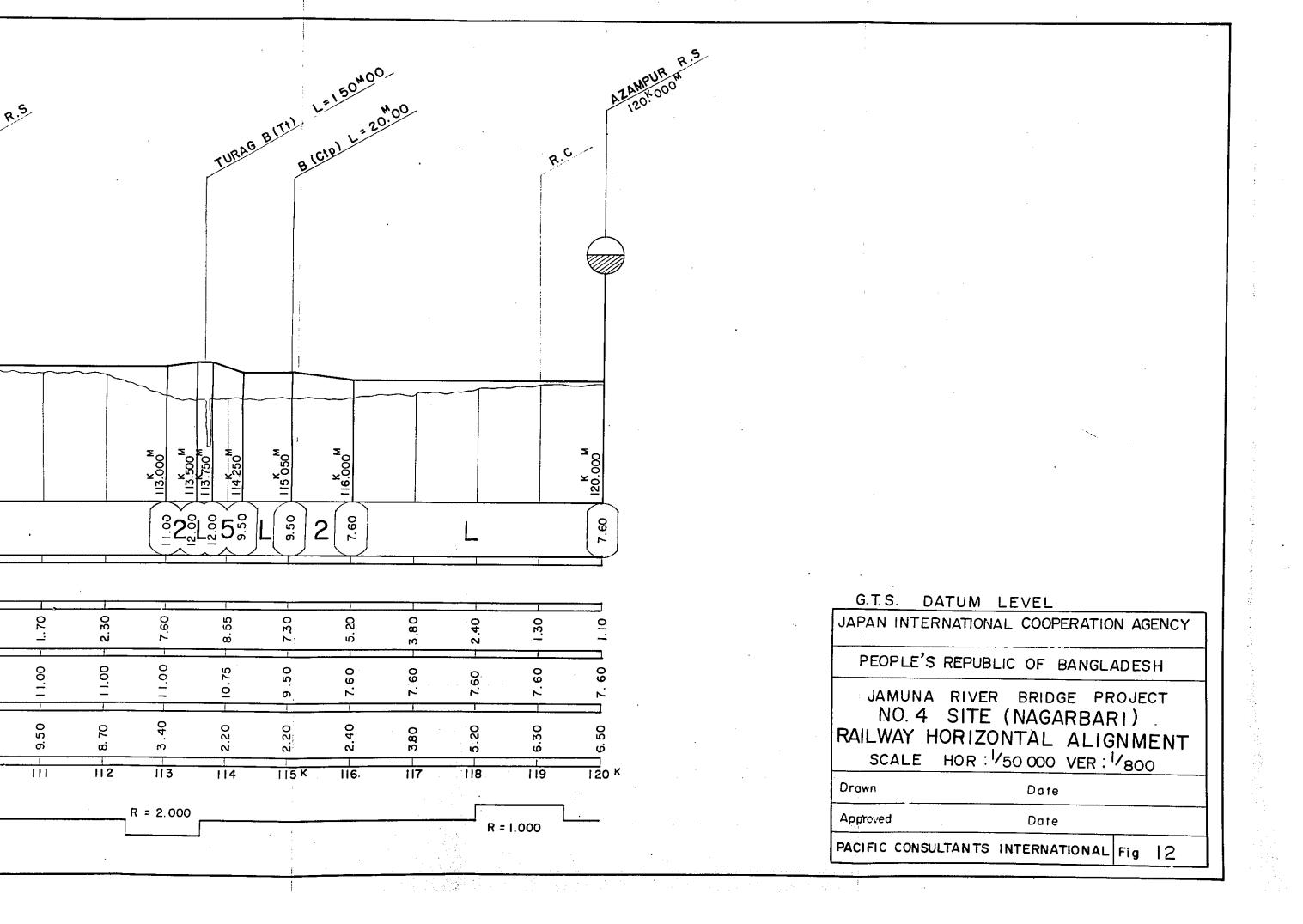












ABBREVIATION FOR FIGURE

R.S. RAILWAY STATION

B BRIDGE

L LENGTH

Cb CONCRETE BOX

Ctp PRESTRESSED CONCRETE GIRDER

Cs CONCRETE SLAB

Tt THROUGH TRUSS GIRDER

R.C. ROAD CROSSING GATE

GRADES (5) PER-MILLAGE (5/1000)

RADIUS OF CURVATURE

RECORD OF DISCUSSION TOKYO MEETING

FOR

JAMUNA BRIDGE PROJECT, BANGLADESH
PART VI: RAILWAY

SEPTEMBER, 1974

1: Route Location

- B: Generally agreed. However, during the succeeding step it shall be studied for river crossing, embankment over low laying marshy lands, blockade of water way, highest flood level, connecting places of commercial importance, etc.
- J: Due attention will be paid.
- B: The reduction of the number of transhipment yards at way side place will be desirable from the point of view of rail operational efficiency.

A uniform gauge track line from the west through to Dacca will be wished to be maintained.

For this purpose the existing meter gauge line will have to be widened to broad gauge if one of sites No. 1 and 2 is decided.

All railway lines are to be taken to Dacca which is a terminal station.

J: Due consideration will be given to the transhipment facilities when the final route is decided, together with the volume of transportation and the improvement plans of the existing rail lines.

2. Double Track

B: The cross-sectional space for the future provision of double track from proposed single track shall be kept.

- J: The traffic study has been and will be conducted.

 With the results of the study, double track plan will carefully be elaborated, taking into consideration distances between station, required daily carrying capacity of the line, etc.

 If the traffic study results reveal the necessity of double track in later years the possibility of a double track bridge which requires a huge amount of construction cost, will be fully considered in connection with the bridge structure.
- B: Traffic will be projected for long future and provision will be kept in foundation and substructure of the bridge for putting in double track in the super-structure in some future days if economic study and traffic operation justify it.
- J: Full consideration will be given.

3. Gradient of Bridge Access

- B: The gradient 1 in 200 shall be flattened from the point of the train motive power. One in 300 or 400 is desirable.
- J: Generally accepted. However, we will study more about this with the distance between stations and the location of station, etc.

4. Provision for Railway Study

B: Second stage, study of access railway line may be conducted according to provision of Code of Practice for Engineering

Department of Bangladesh Railway.

- J: Agreed.
- 5: Structures and Earthwork
 - B: For embankment on Railway links, soil test, spillway bridges, flood openings, freeboard over normal flood level, etc. should have some considerations as those for road links.

 In case of a future double track, provision should be kept for borrow pits on one side only.
 - J: Agreed.

