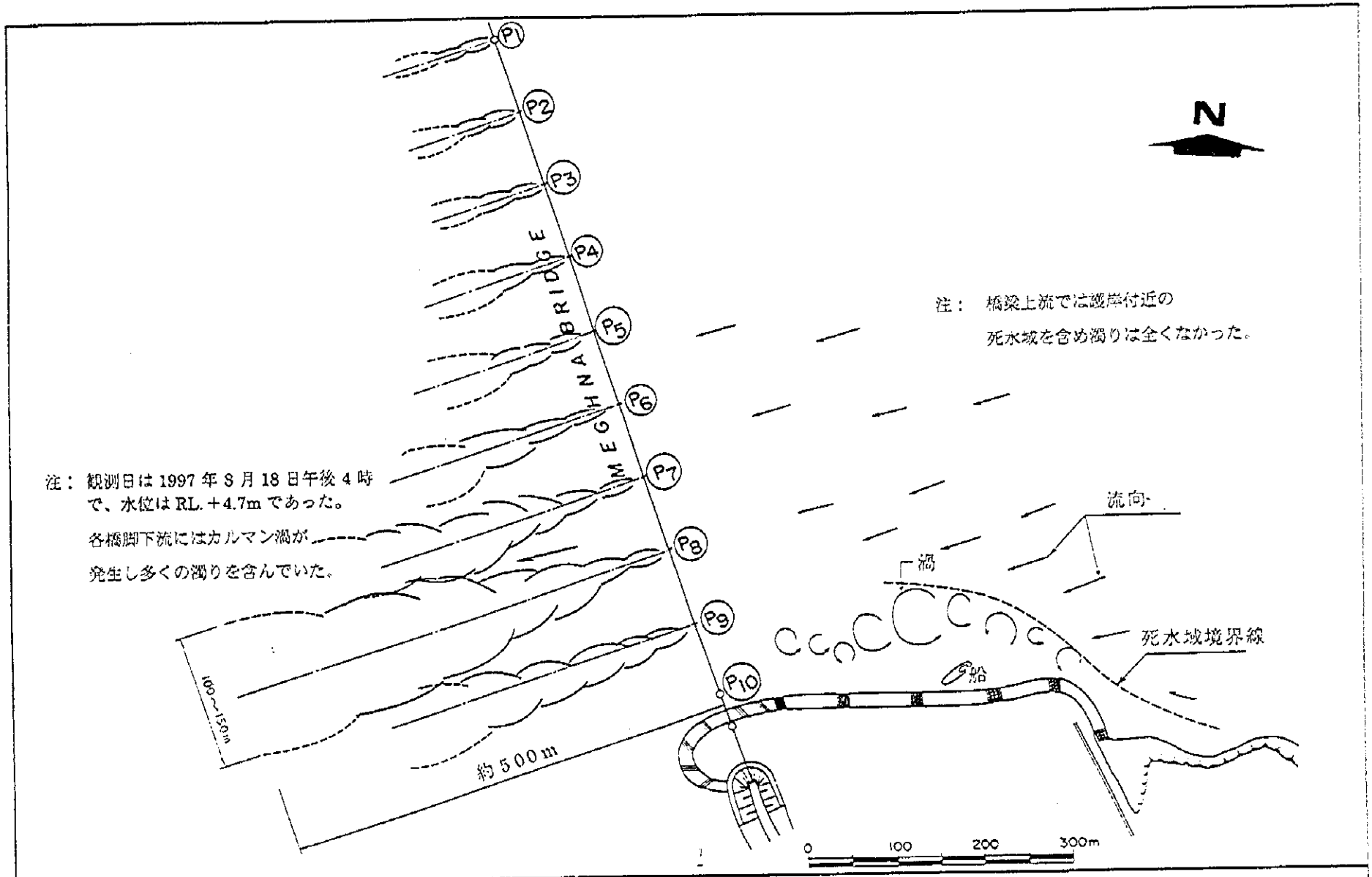
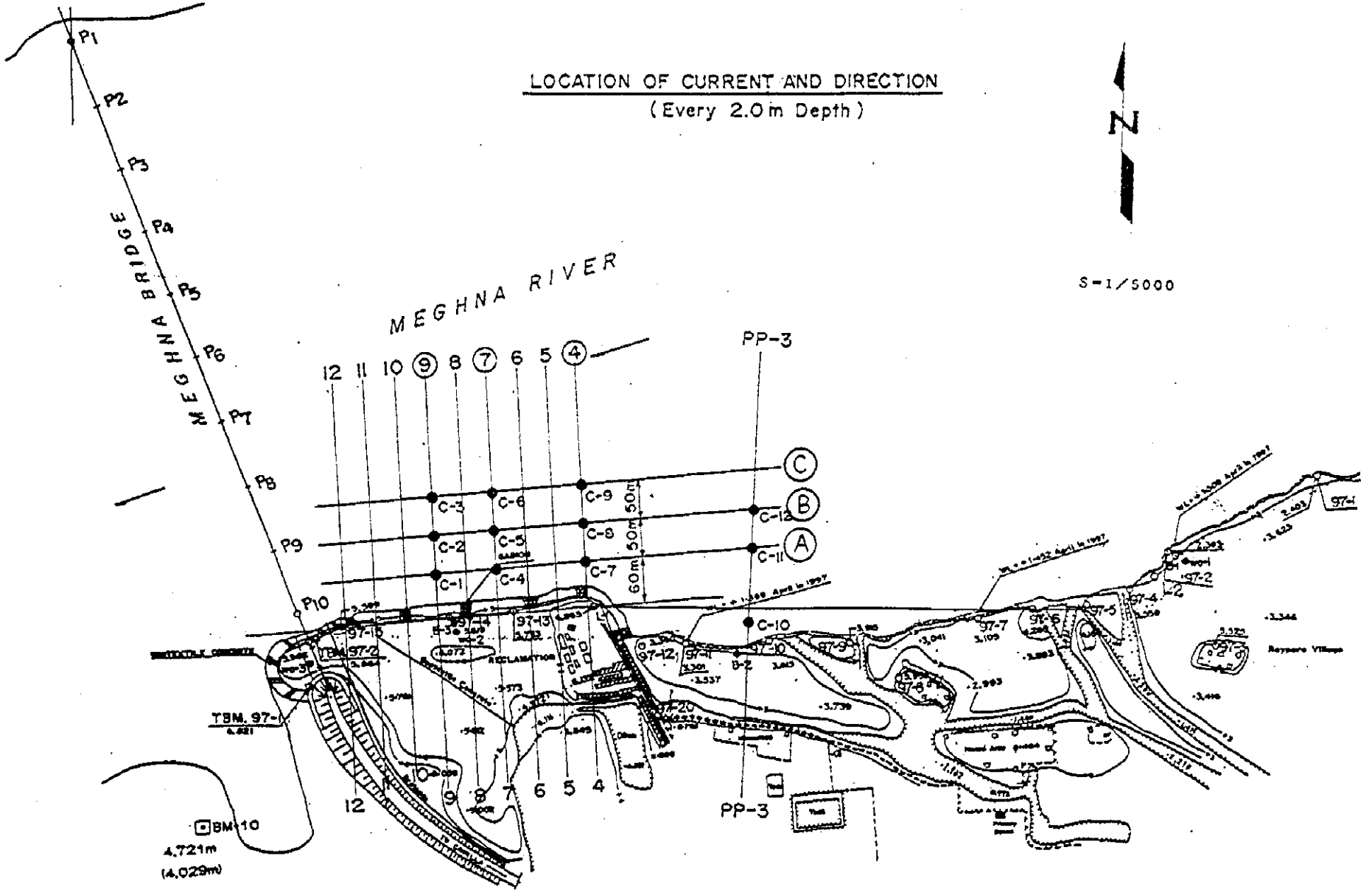


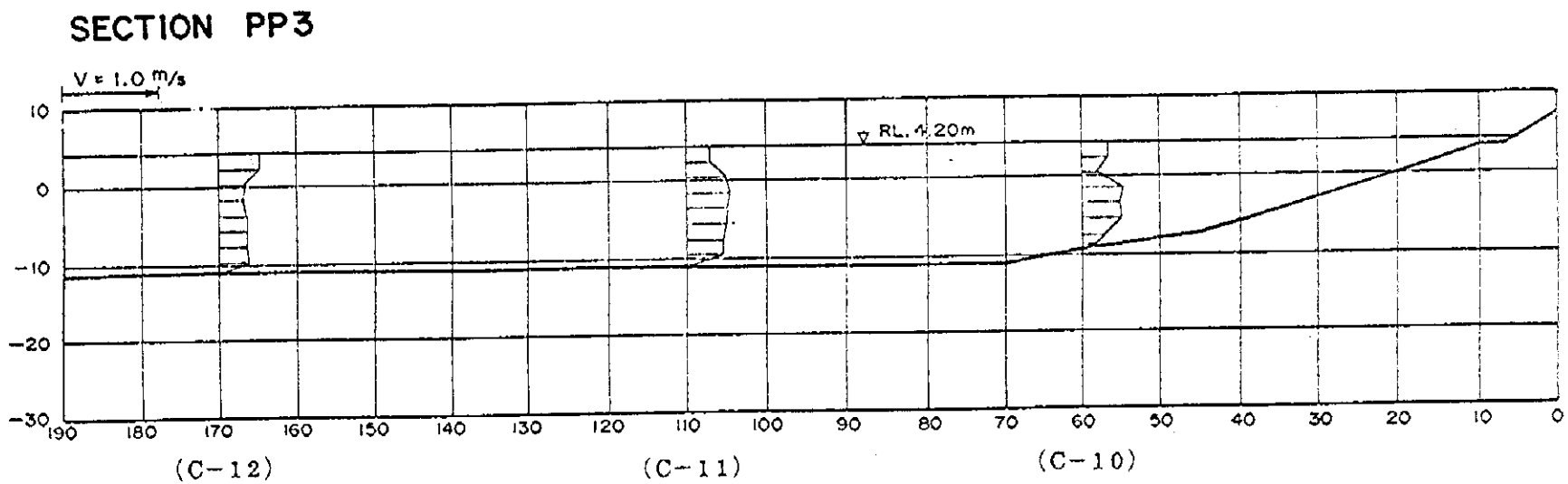

PROTECTION WORKS FOR MEGHNA BRIDGE

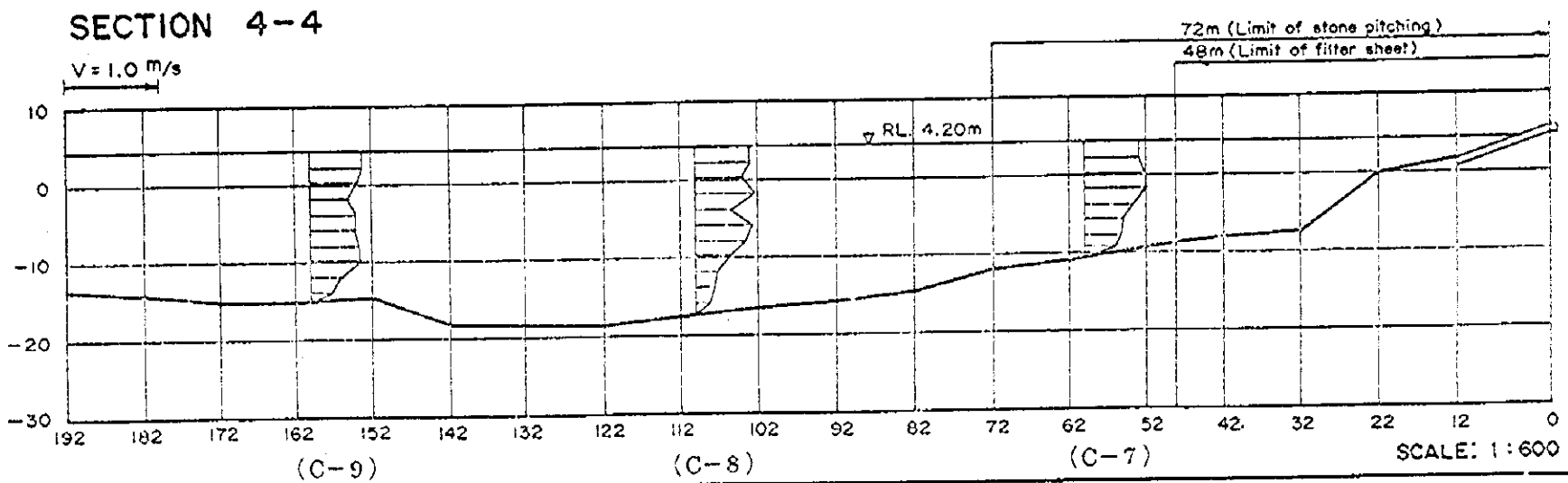
図 5.4.1 表面渦現地観測結果




PROTECTION WORKS FOR MEGHNA BRIDGE

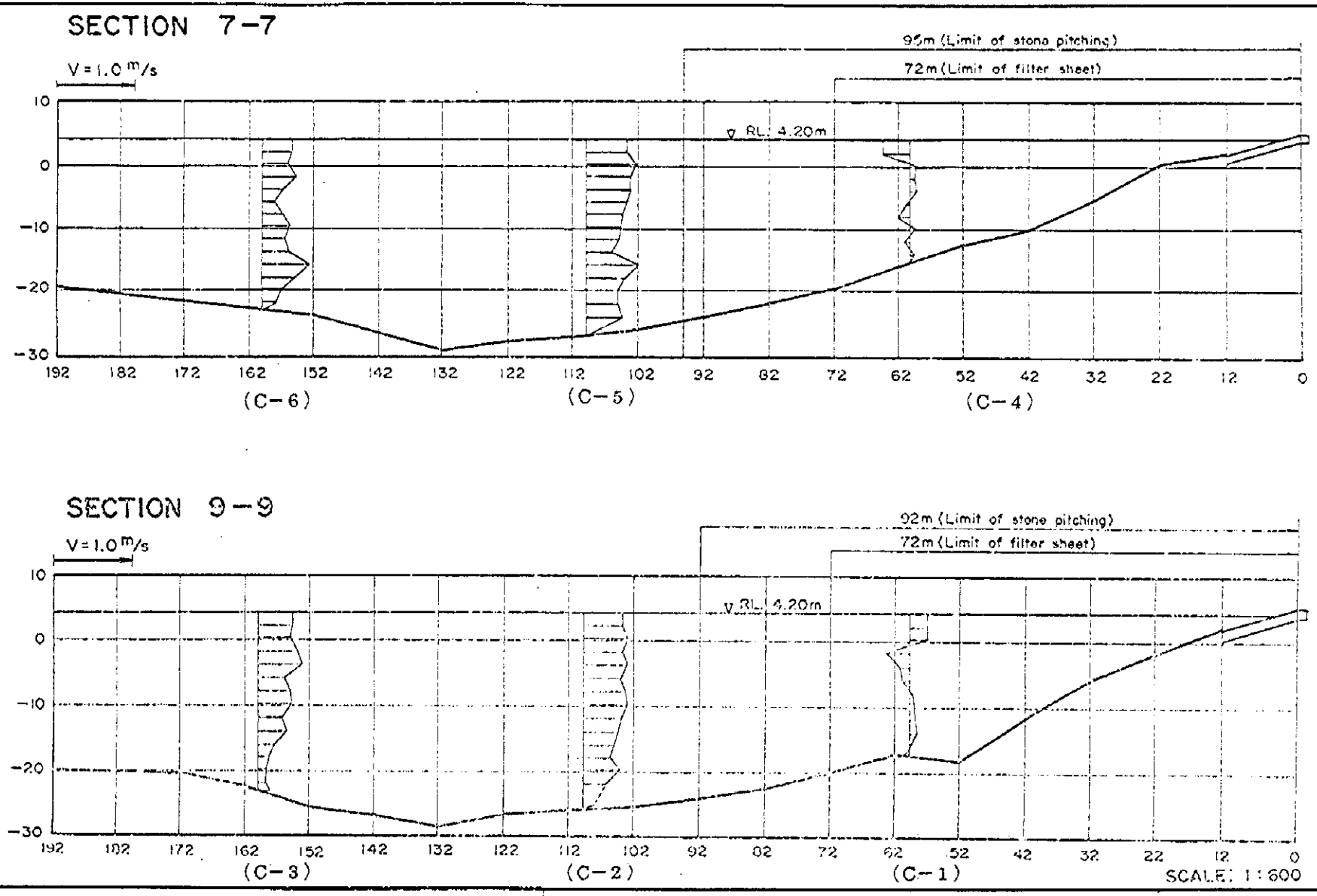
図 5.4.2　護岸工および橋脚周辺の流速・流向調査位置図




PROTECTION WORKS FOR MEGHNA BRIDGE

図 5.4.3 流速・流向調査結果（既設護岸工前面）（1/2）




**PROTECTION WORKS FOR MEGHNA BRIDGE**

図 5.4.3 流速・流向調査結果（既設護岸工前面）（2／2）

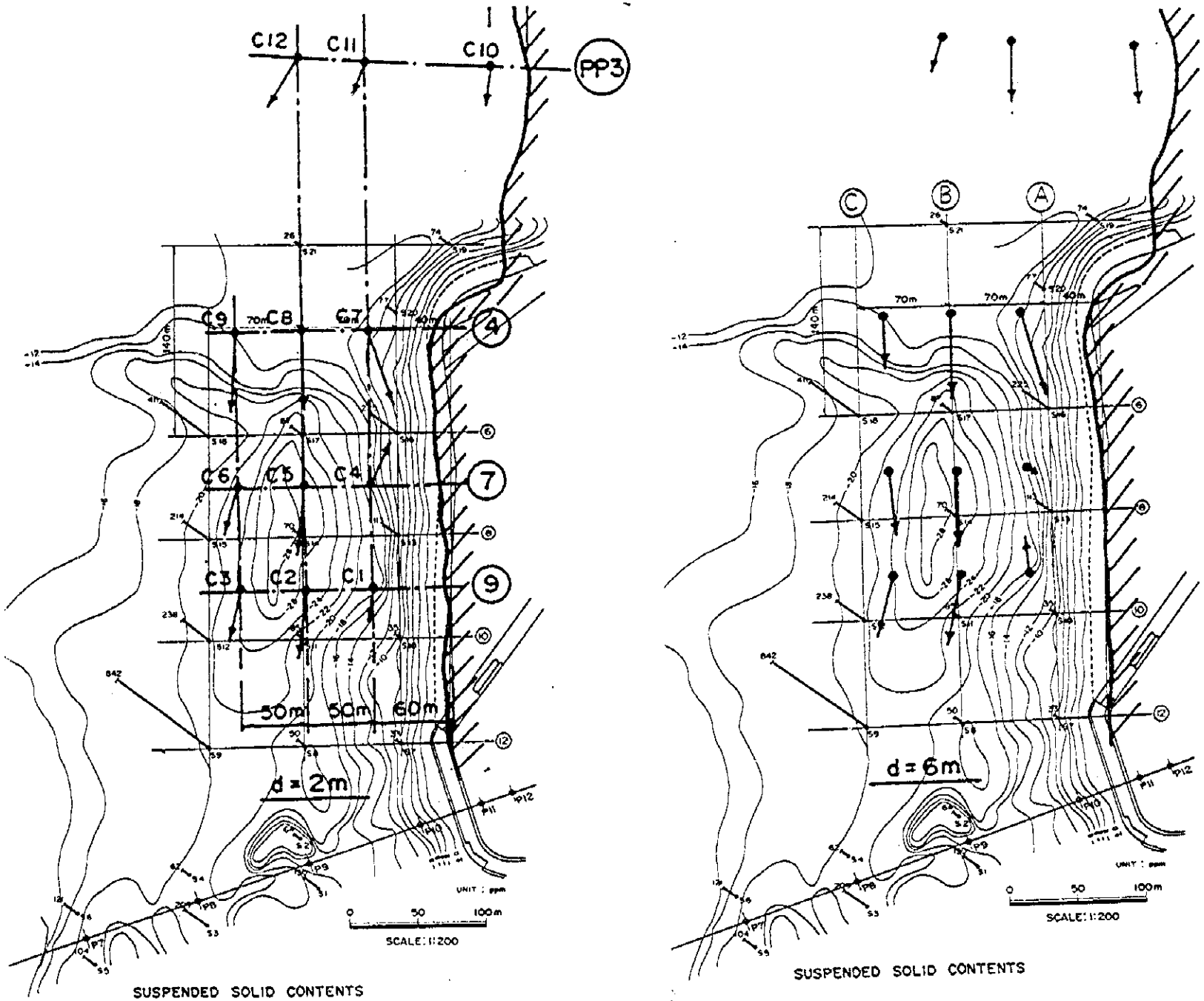



図 5.4.4　既設護岸工前面の流向・流速結果（1／3）

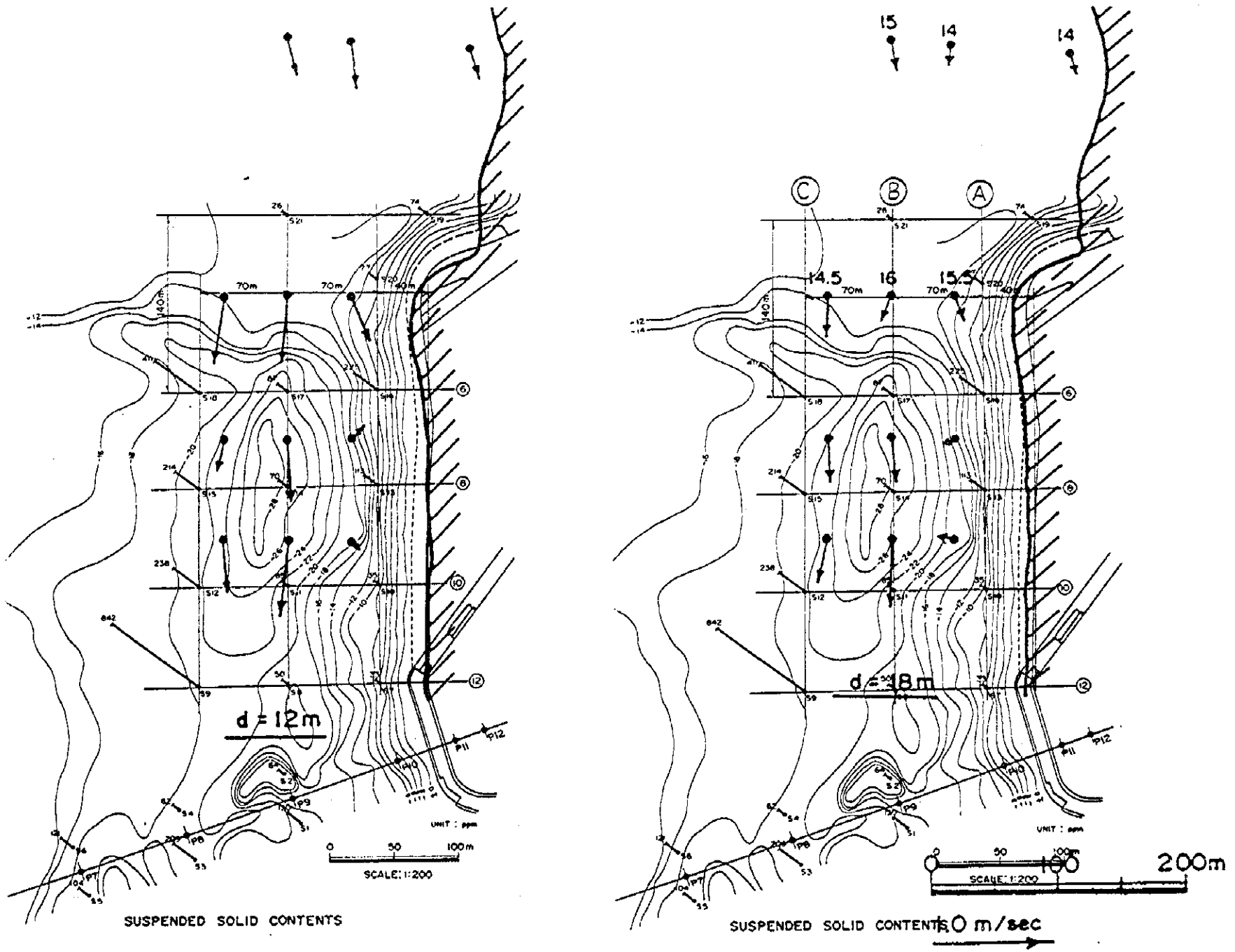
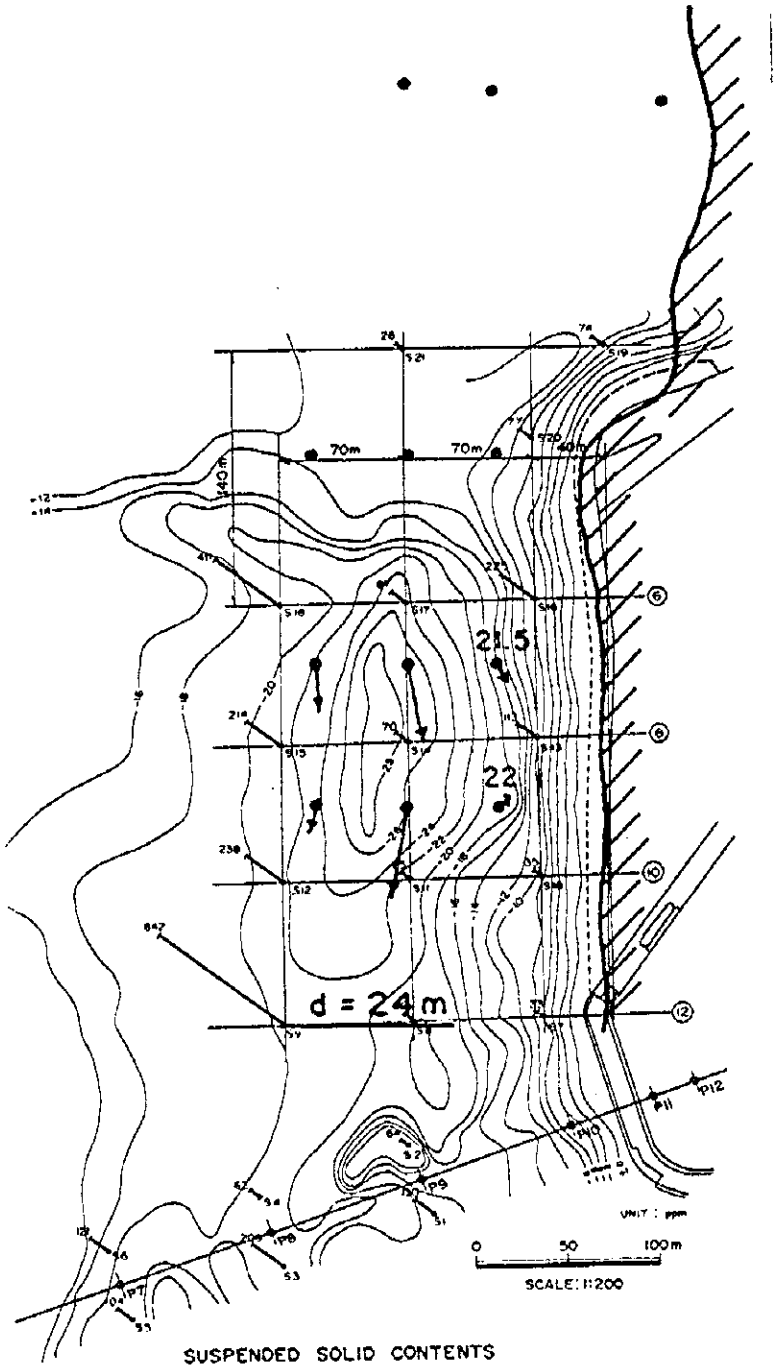



図 5.4.4　既設護岸工前面の流向・流速結果（2／3）



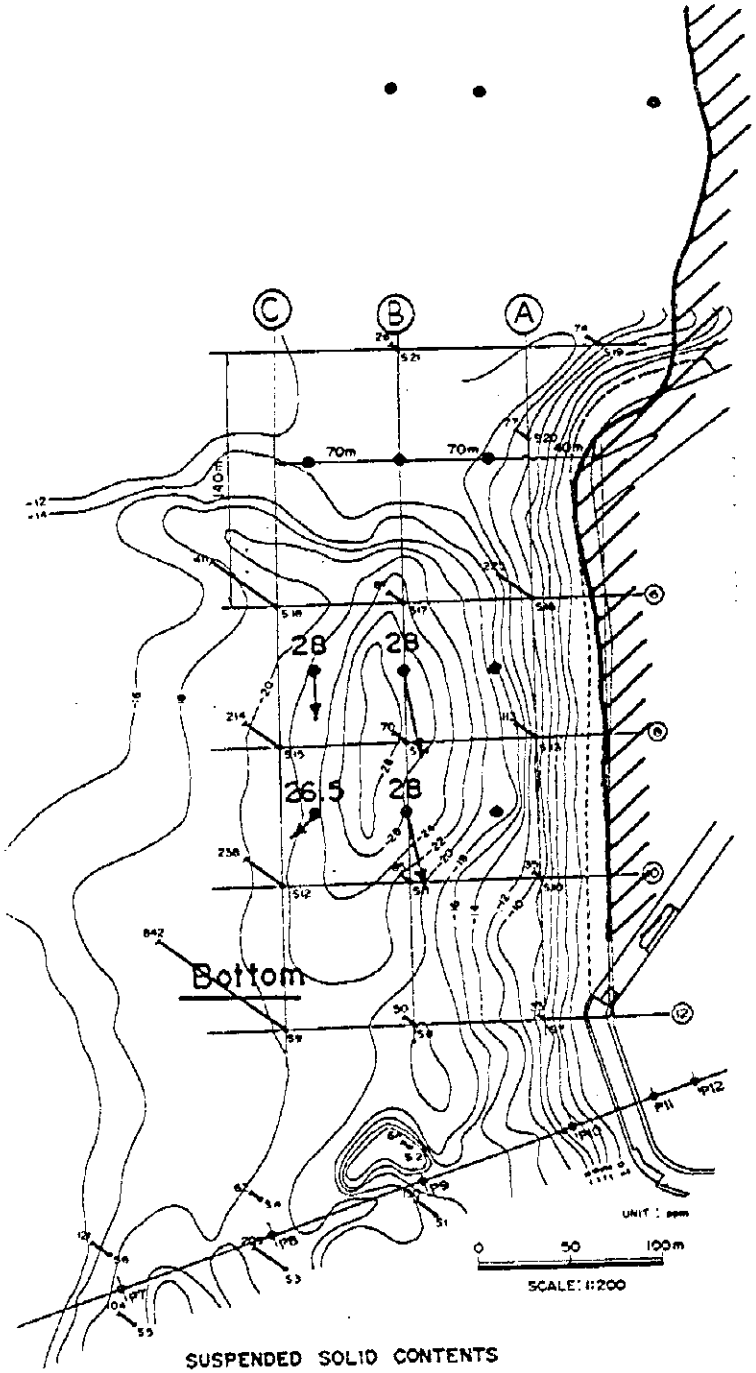
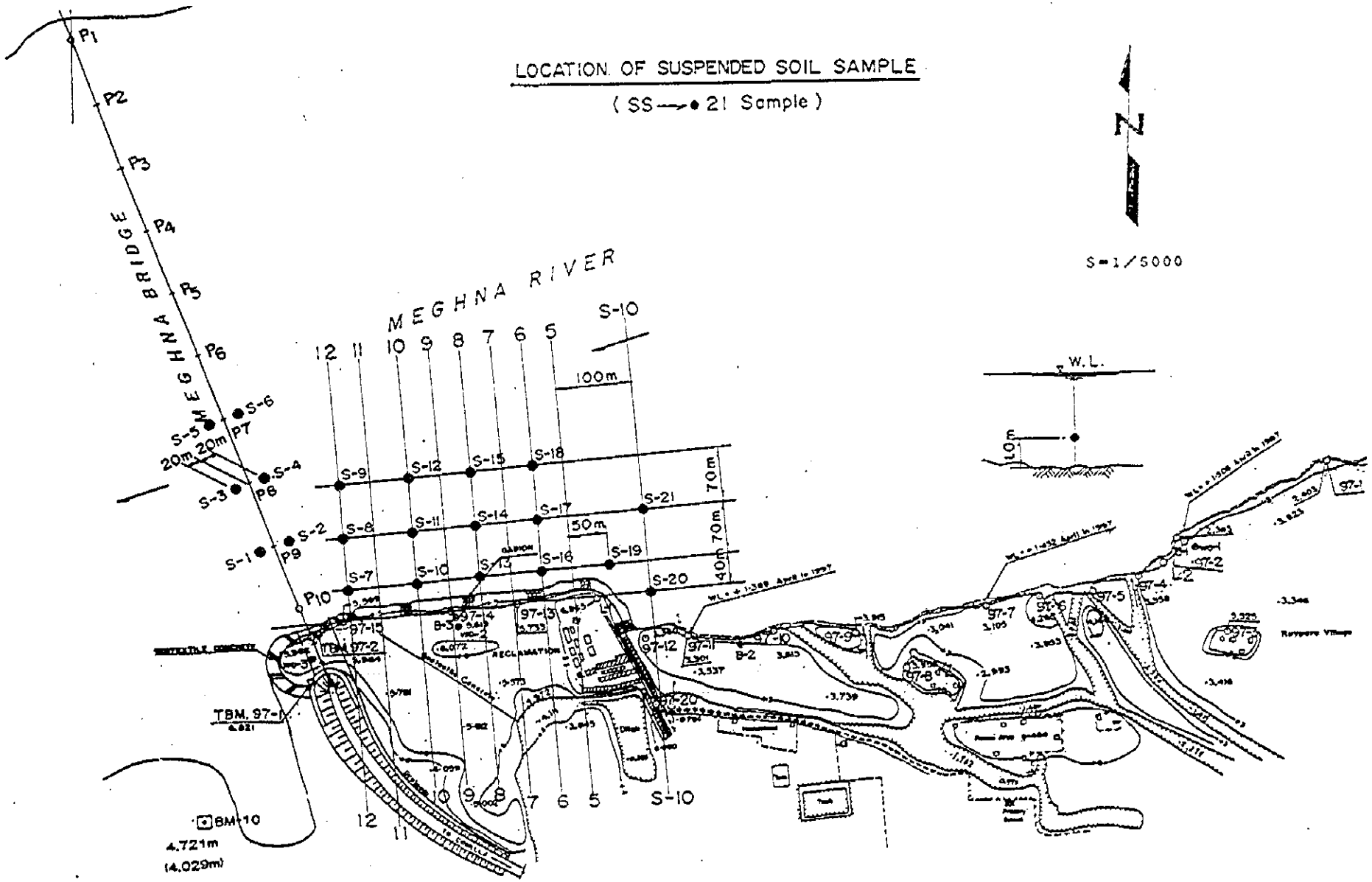



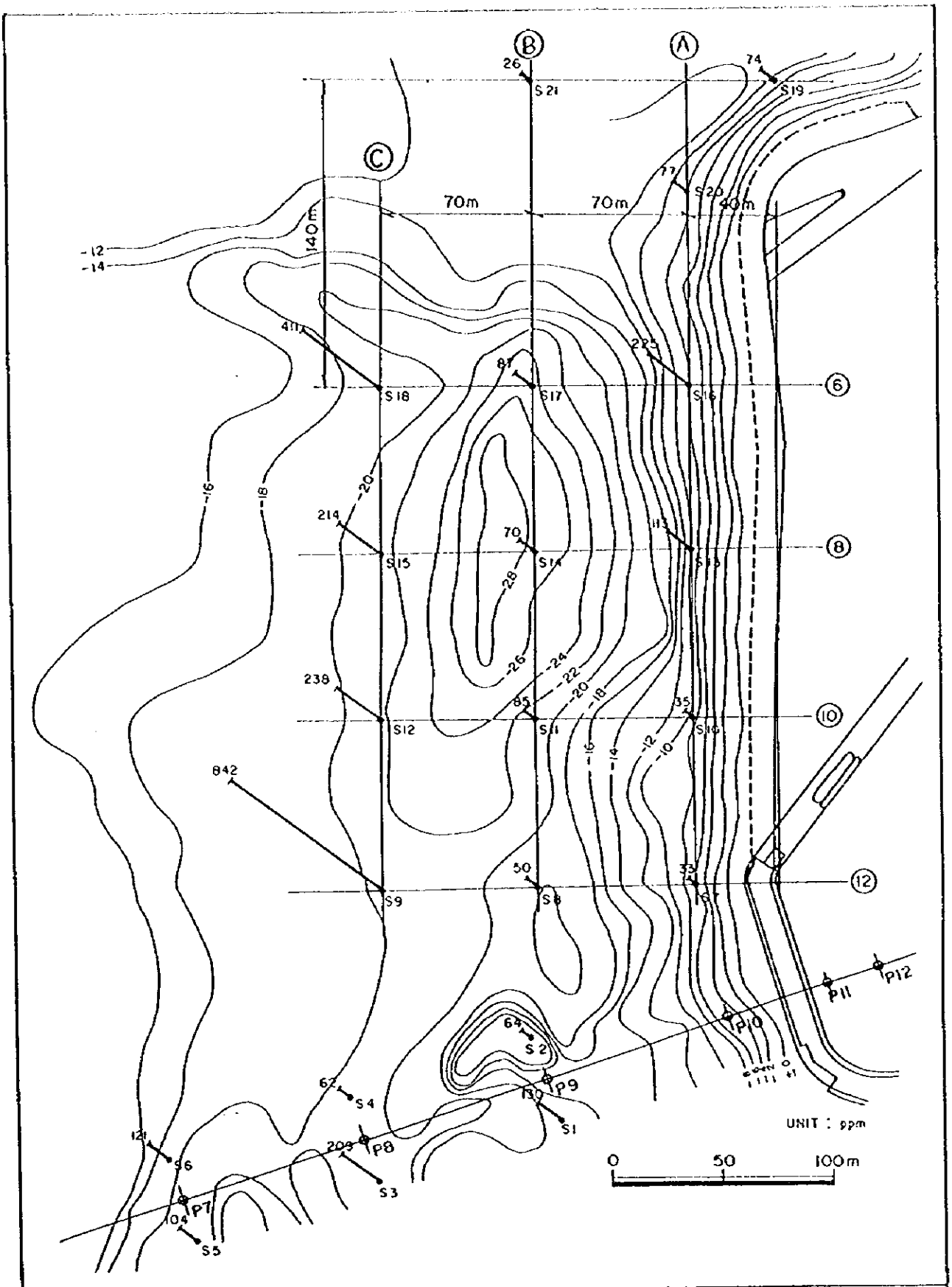

図 5.4.4　既設護岸工前面の流向・流速結果（3／3）

図-5-27




PROTECTION WORKS FOR MEGHNA BRIDGE

図 5.4.5 浮遊砂（SS）濃度調査位置図




| PROTECTION WORKS FOR MEGHNA BRIDGE | 図 5.4.6　SS濃度分布図 |
|---|---|

注　B1～B3：ボーリング調査地点
　　WO1～WO3：地下水観測孔地点

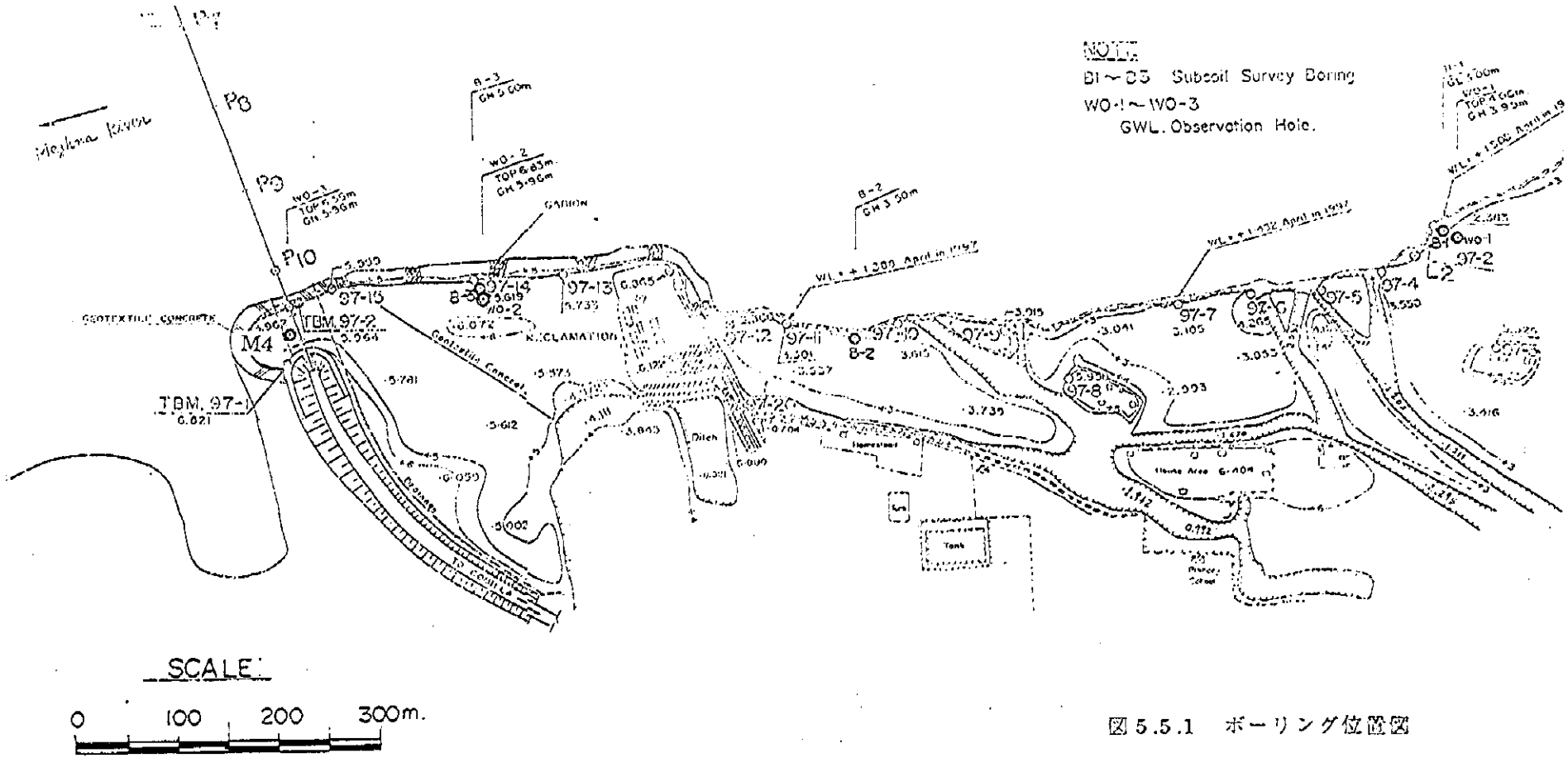
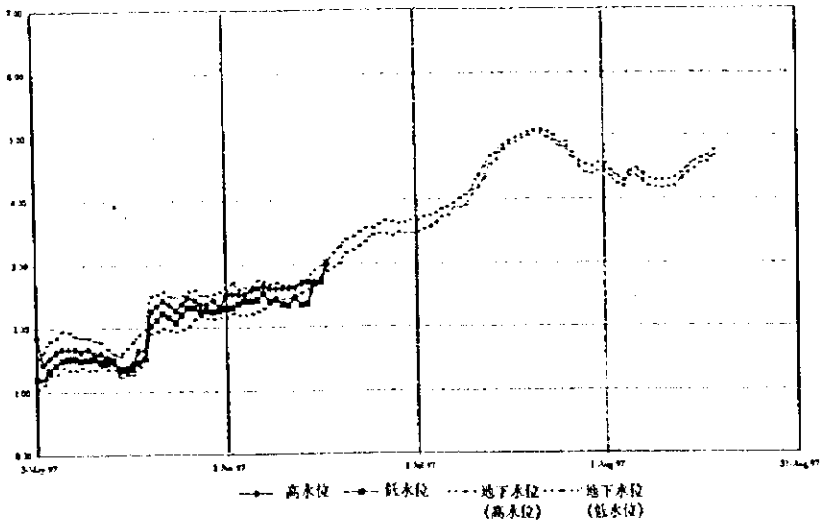
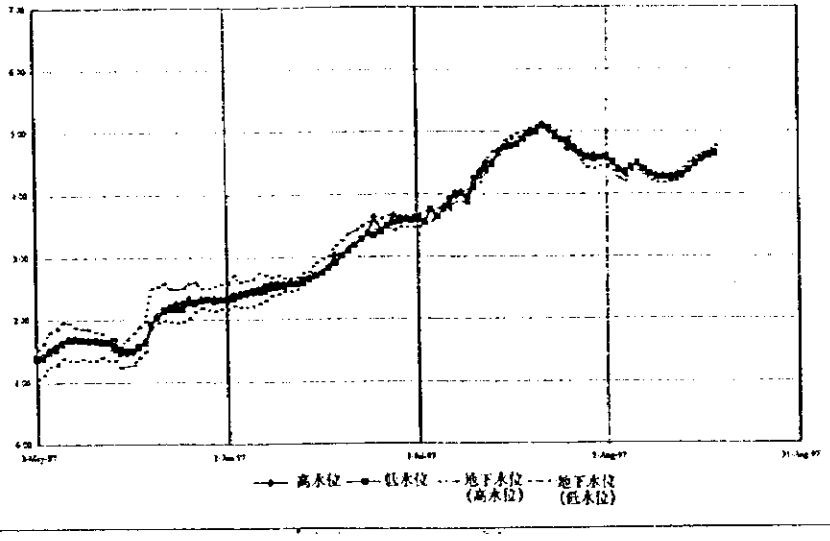



図 5.5.1　ボーリング位置図

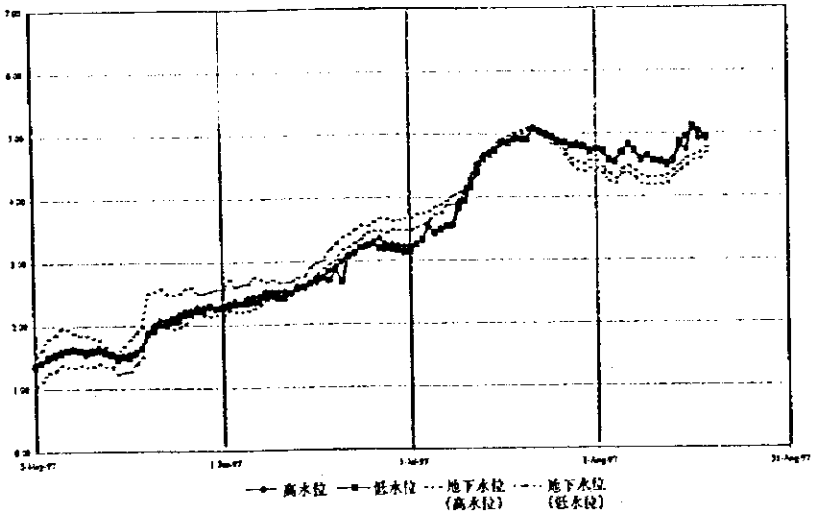
ボーリング孔：WO-1




ボーリング孔：WO-2




ボーリング孔：WO-3




| PROTECTION WORKS FOR MEGHNA BRIDGE | 図 5.5.2　地下水位記録 |
|---|---|

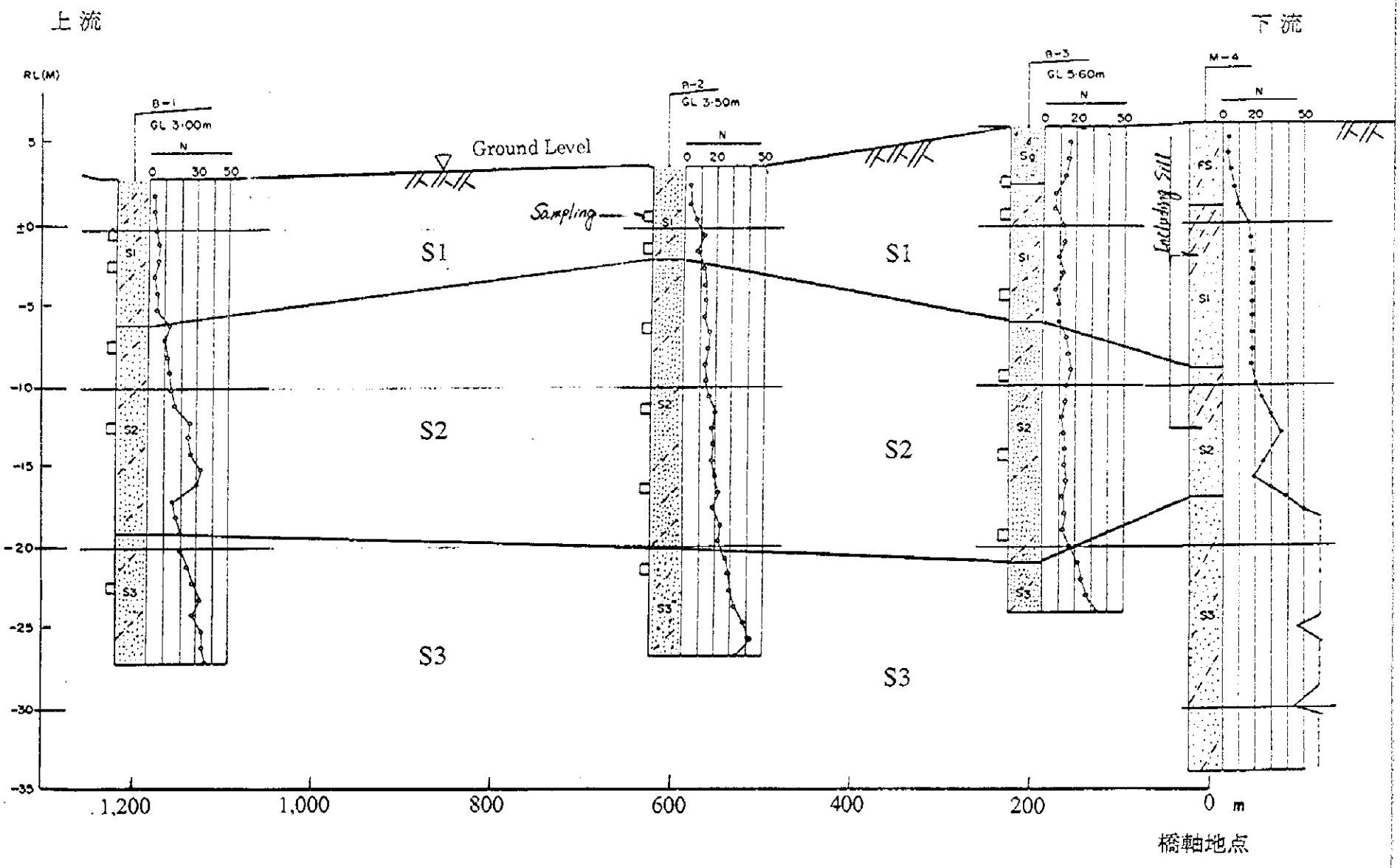
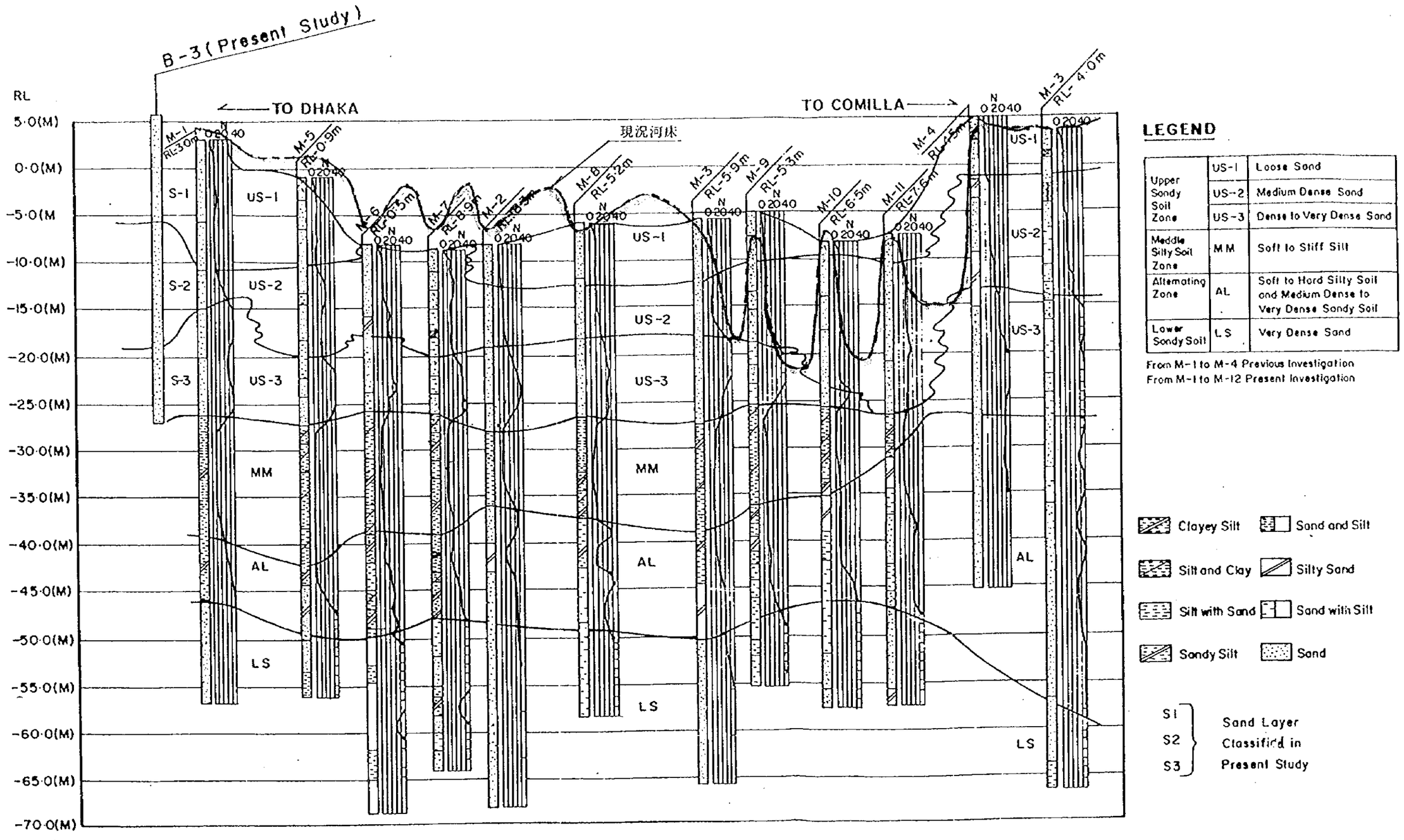



図 5.5.3　地質縦断図（左岸河岸）

図 5.5.4　地質横断図（橋梁位置）



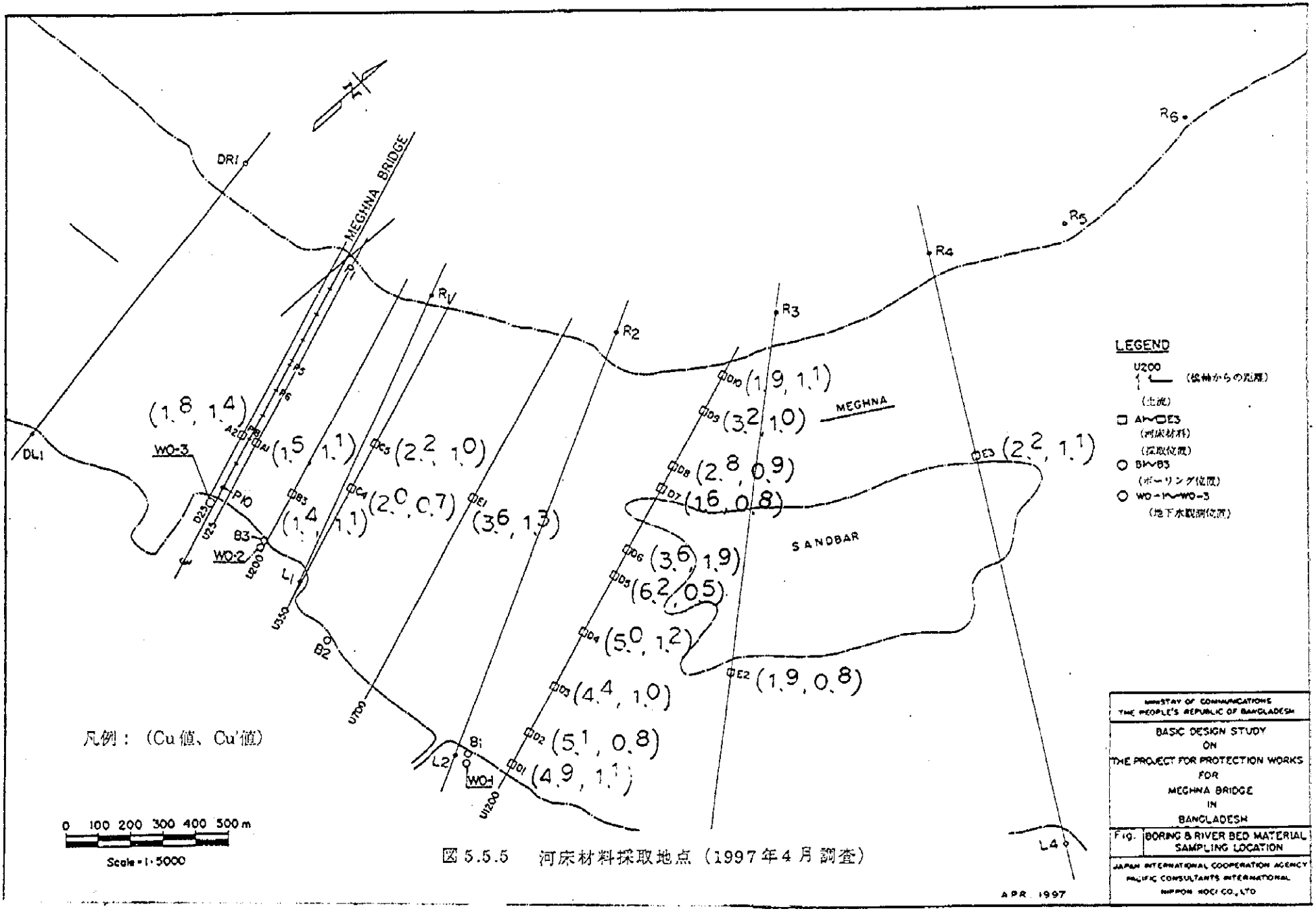



図 5.5.5　河床材料採取地点（1997年4月調査）

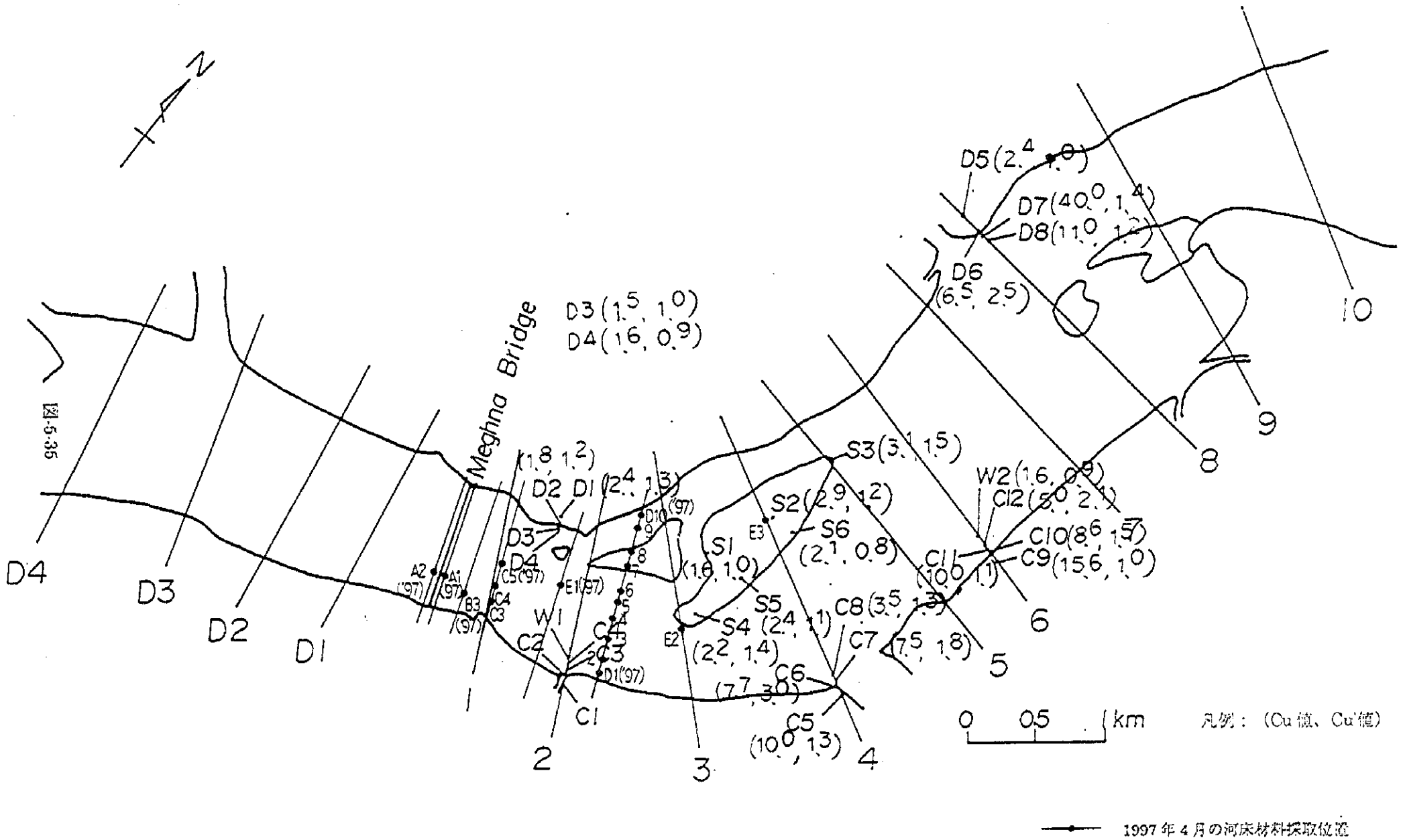
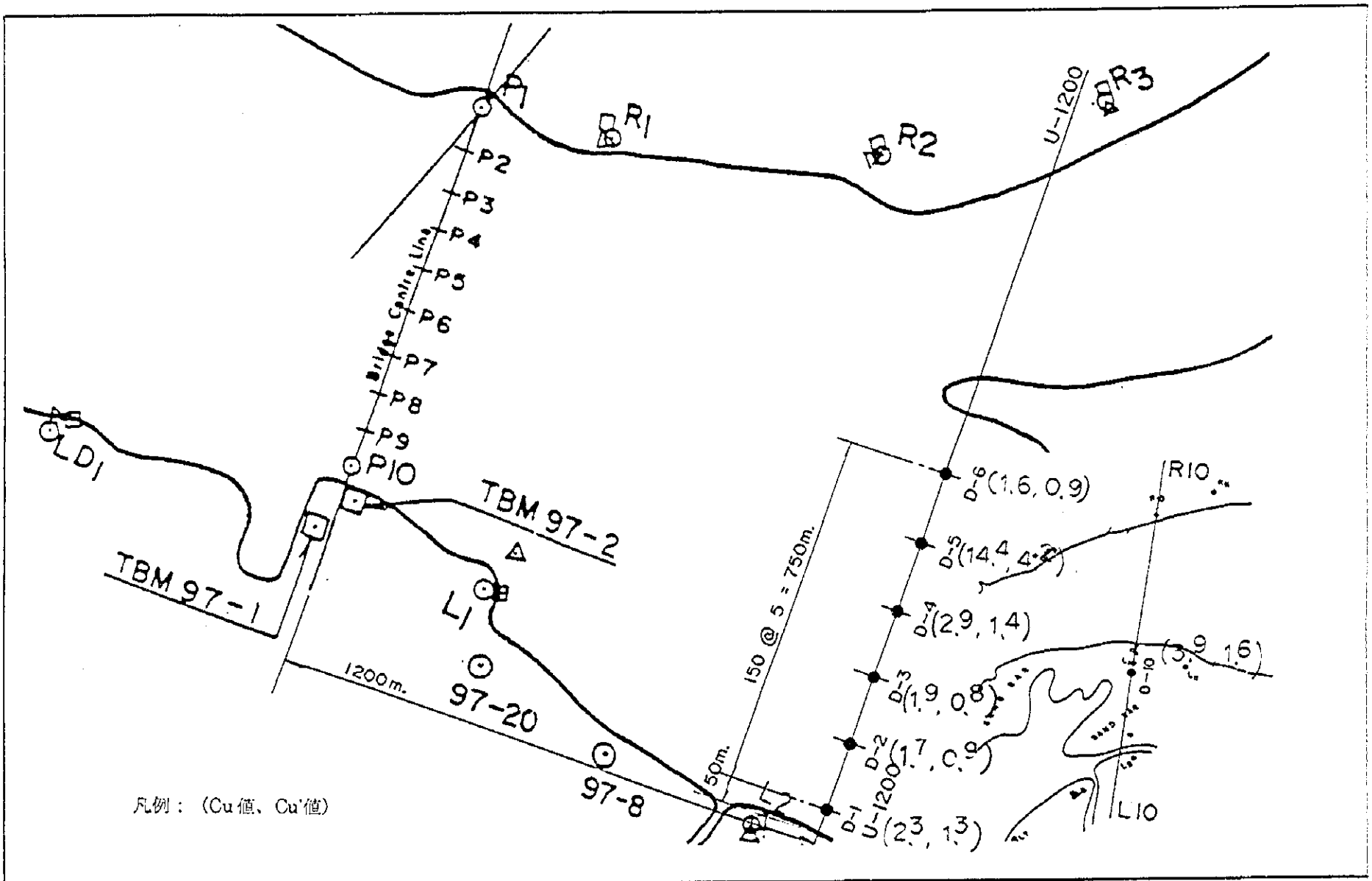



図5.5.6 河床材料採取地点（1989年4月および1997年4月調査全地点）

図-5-35




| PROTECTION WORKS FOR MEGHNA BRIDGE | 図 5.5.7　河床材料採取地点（1997 年 8 月調査） |
|---|---|

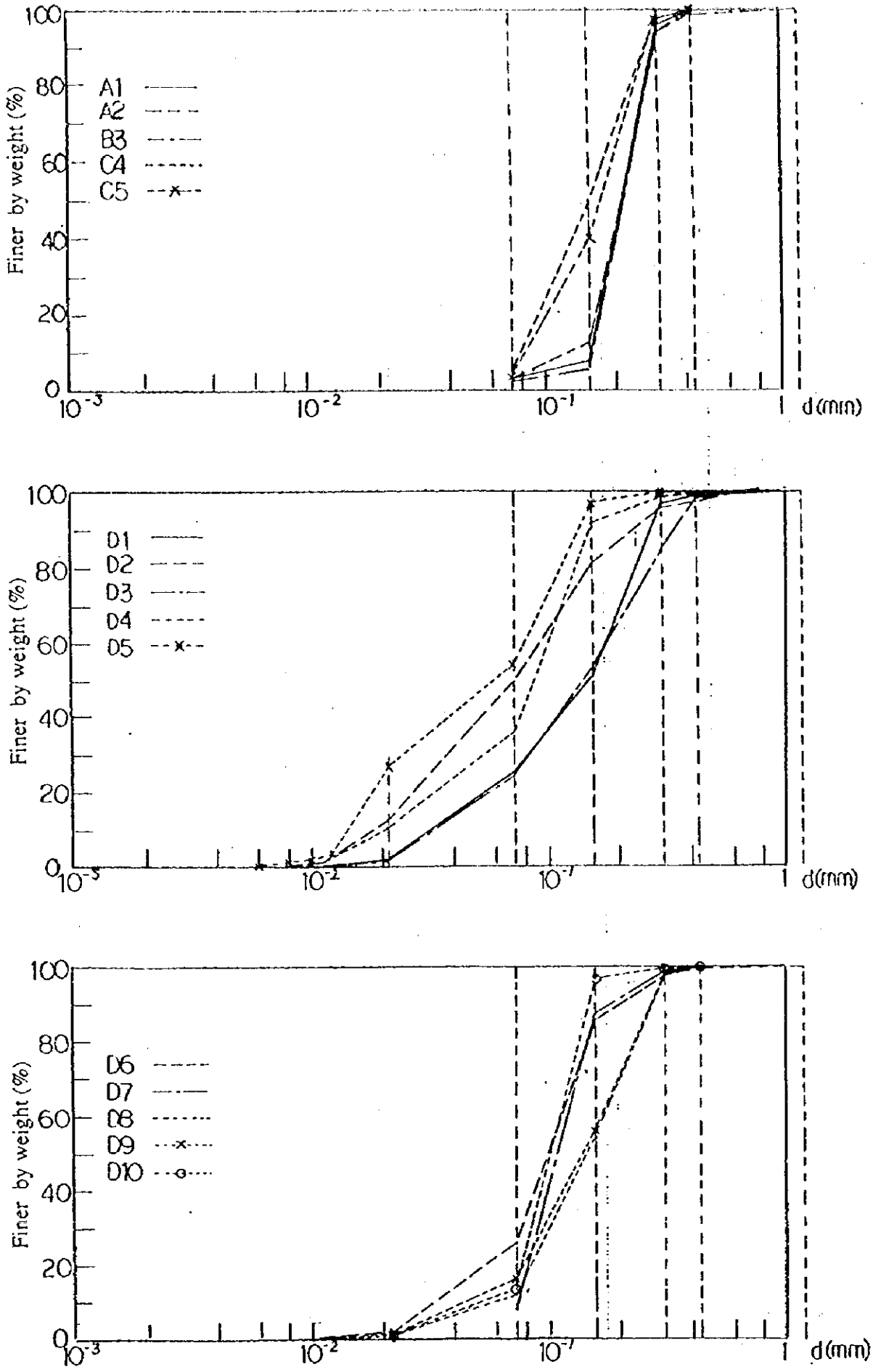



図5.5.8　粒度分布曲線（1997年4月調査）（1／3）

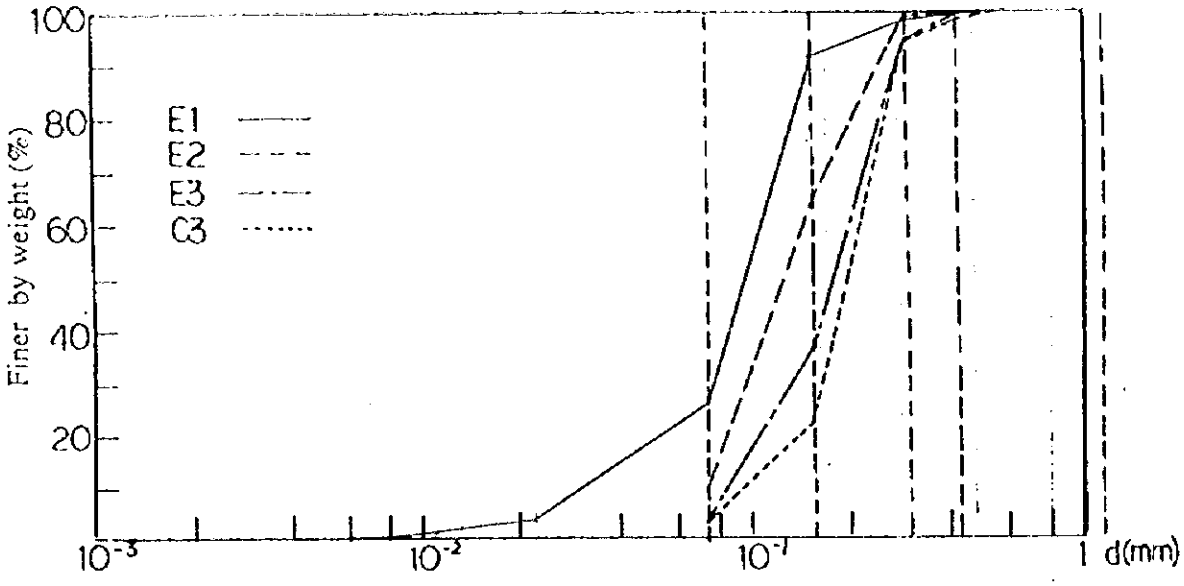
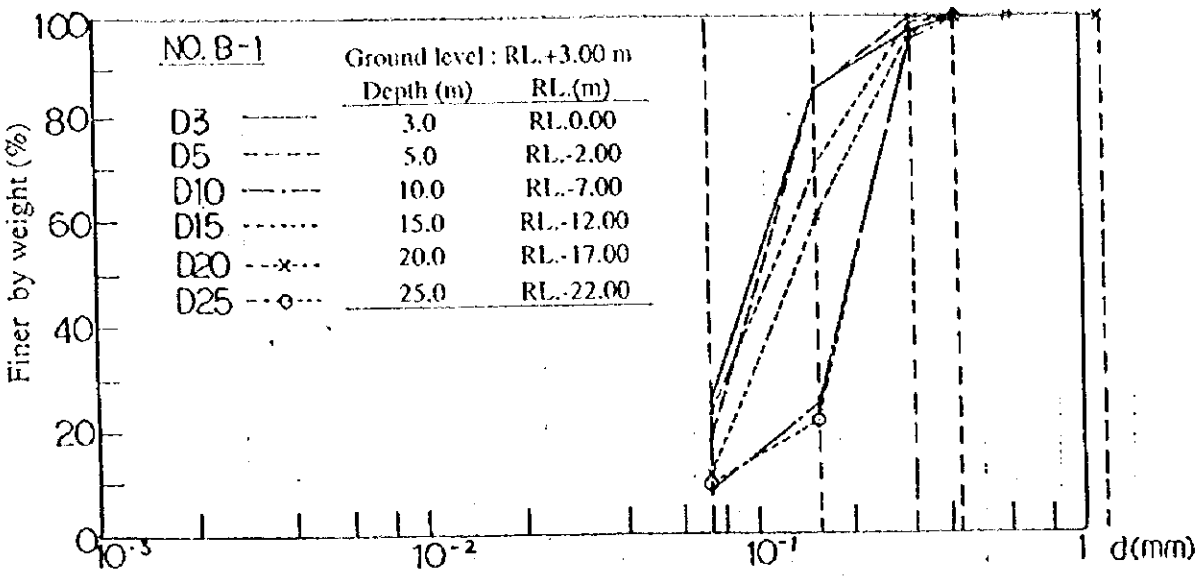
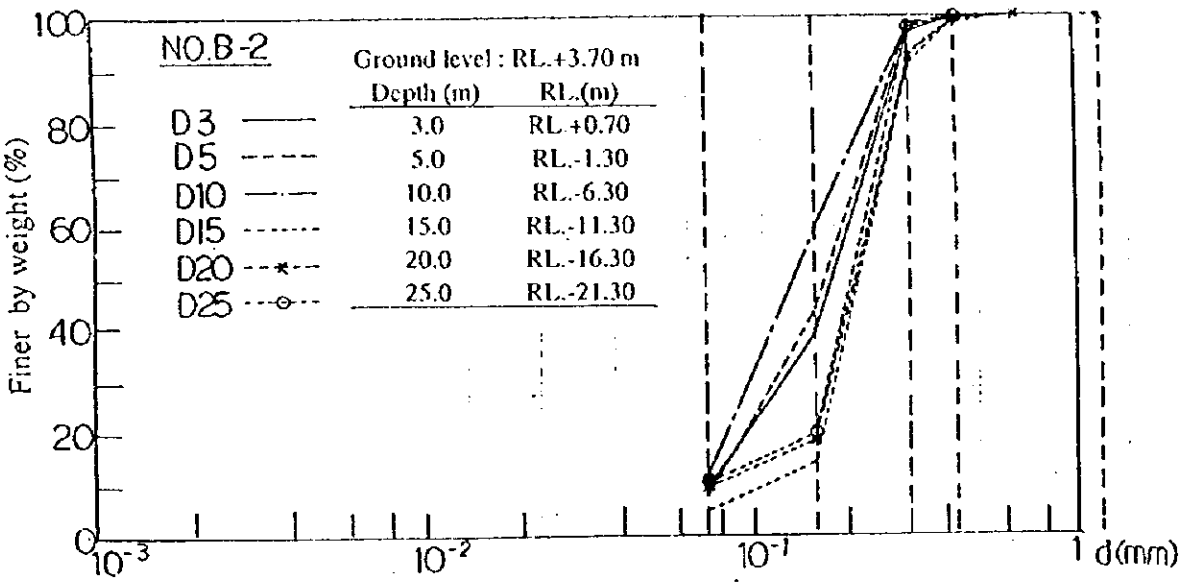



図 5.5.8　粒度分布曲線（1997年4月調査）（2／3）



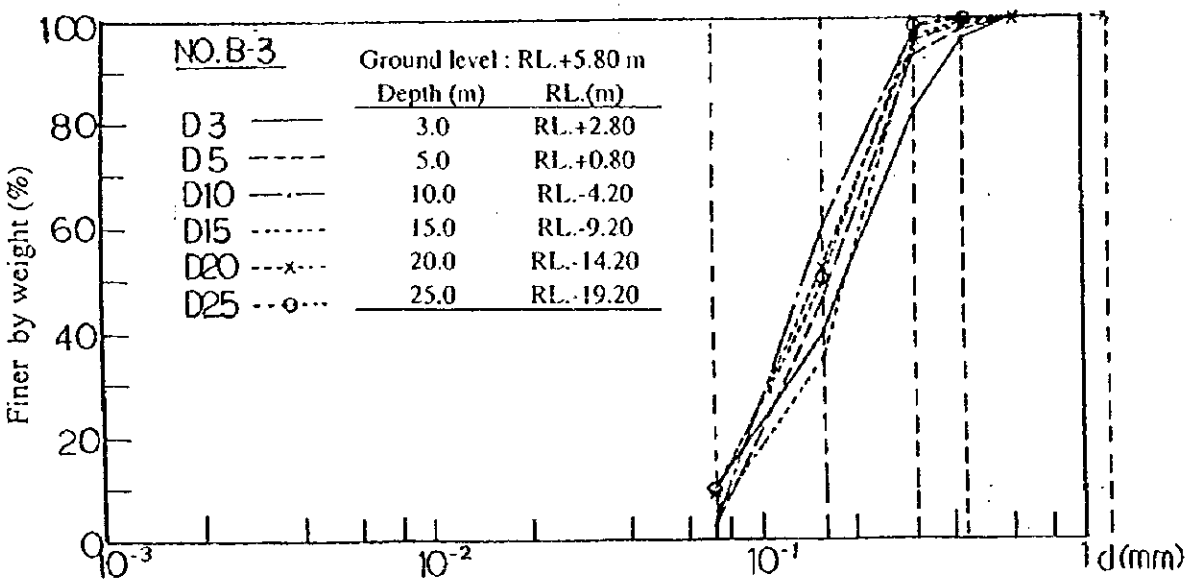




図5.5.8 粒度分布曲線（1997年4月調査）（3／3）

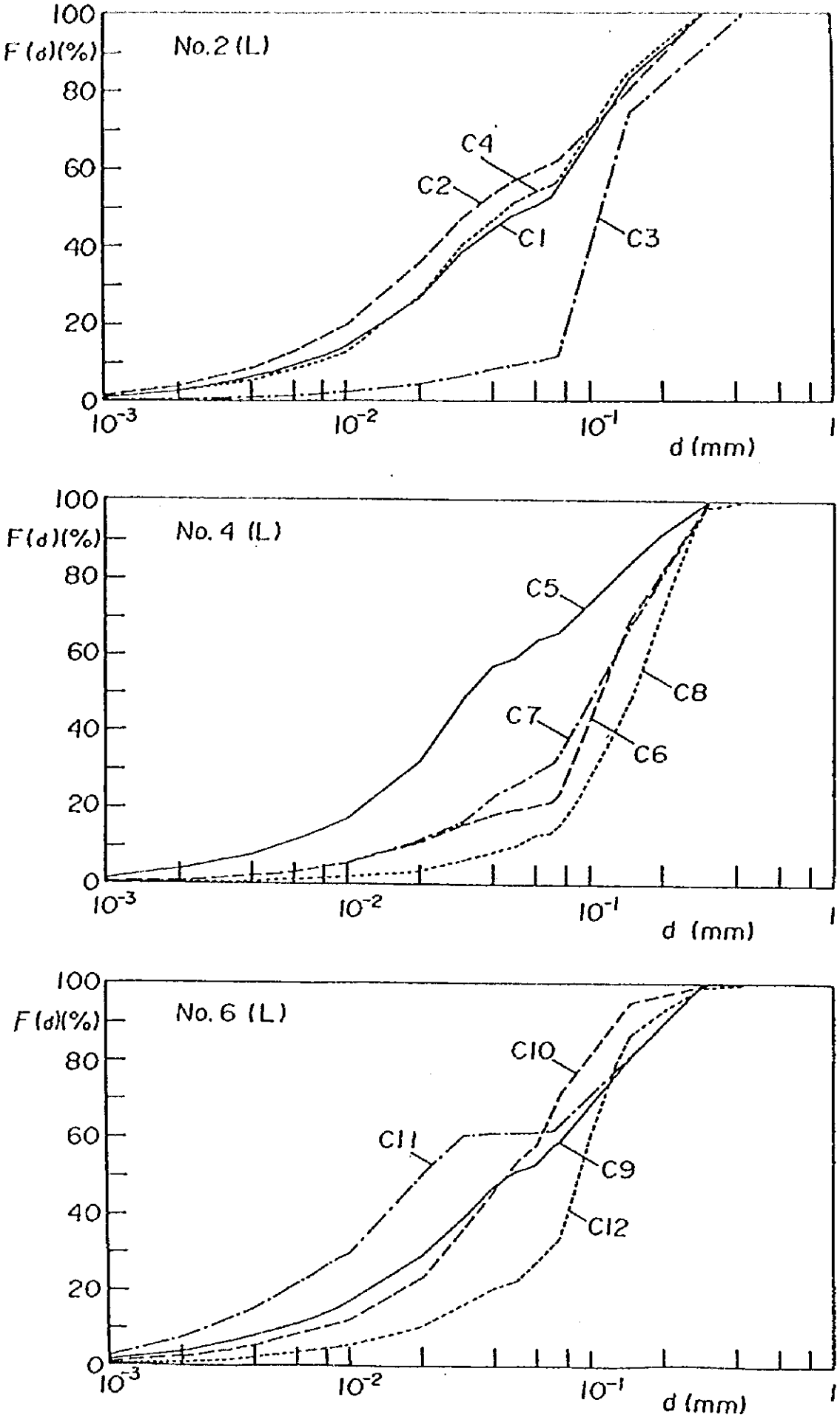
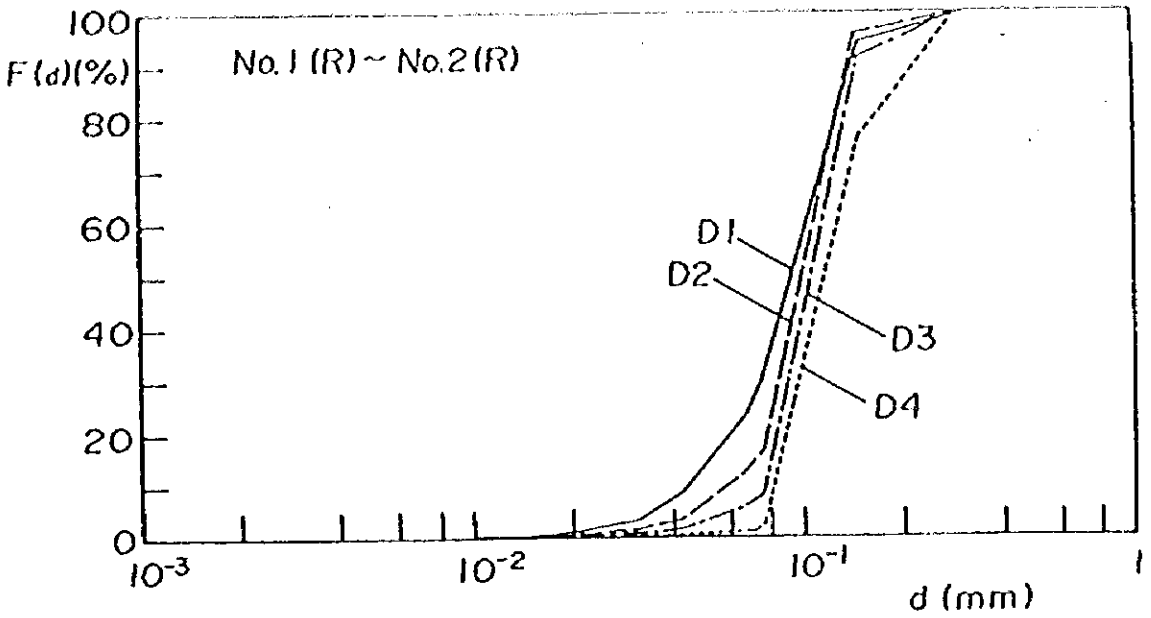
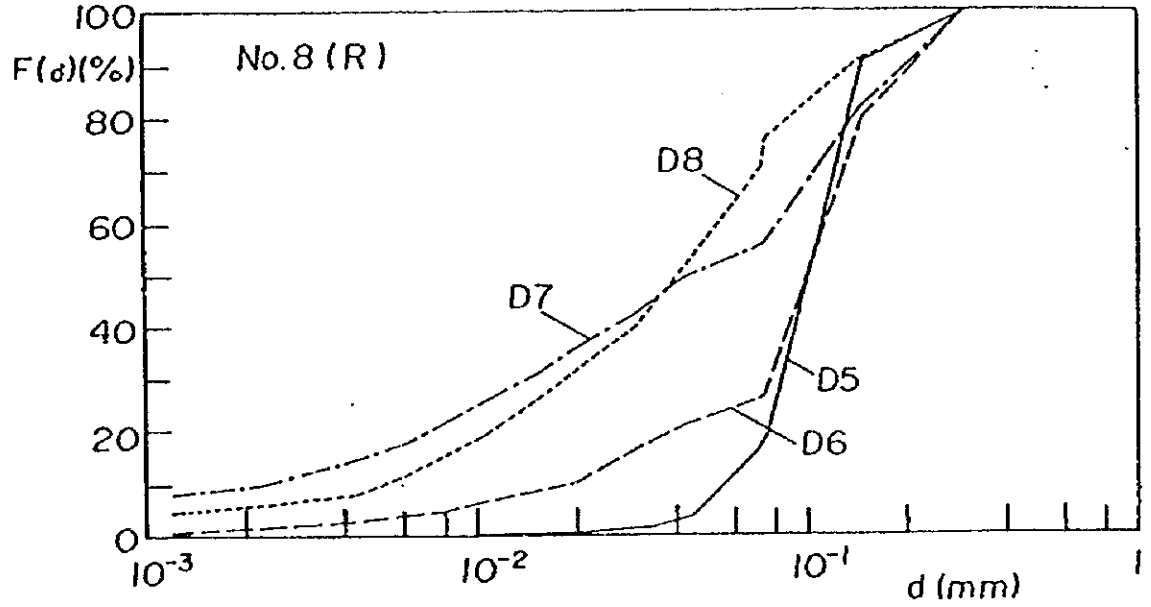



図 5.5.9　粒度分析曲線（1989年）（1／3）



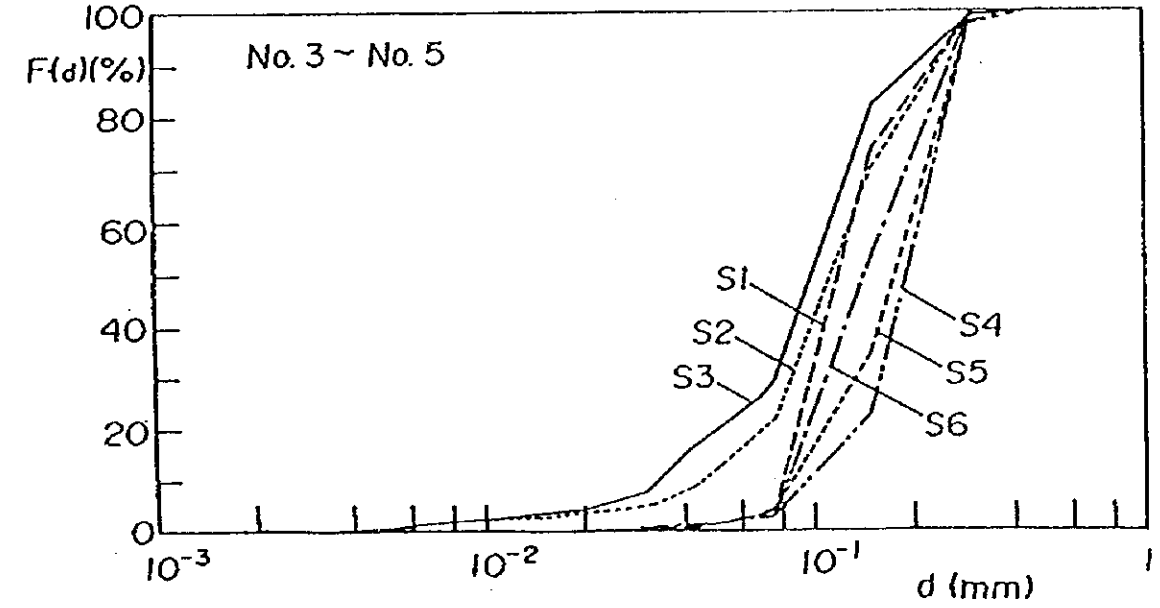




図 5.5.9　粒度分析曲線（1989年）（2／3）

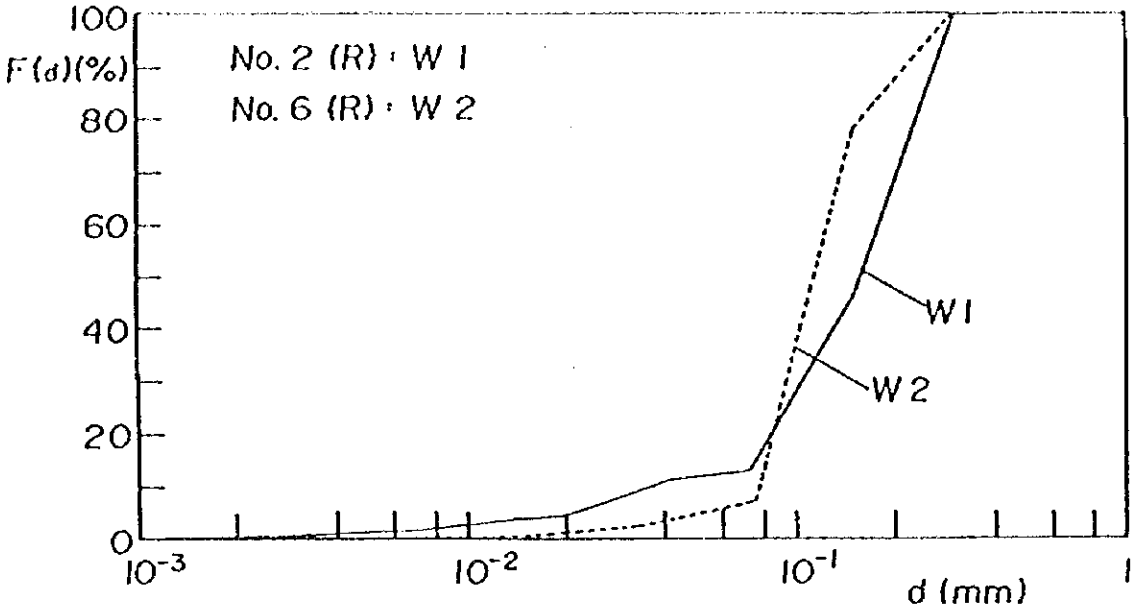
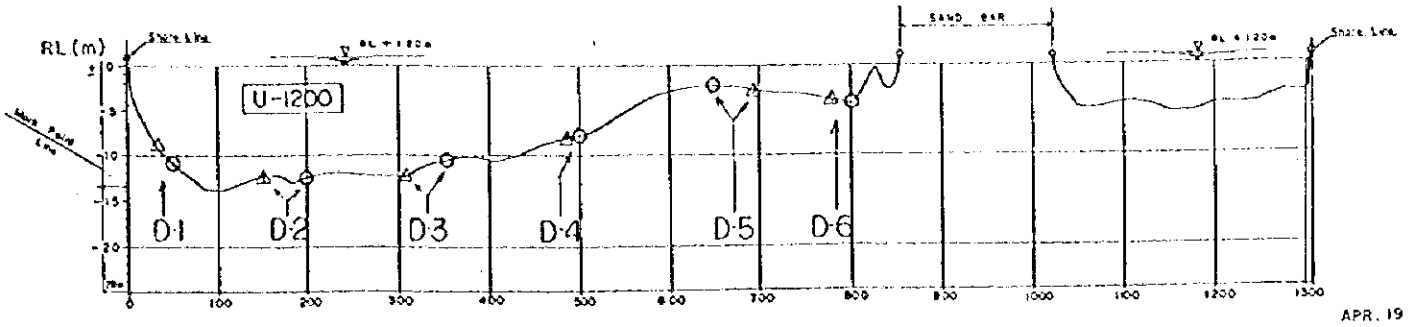
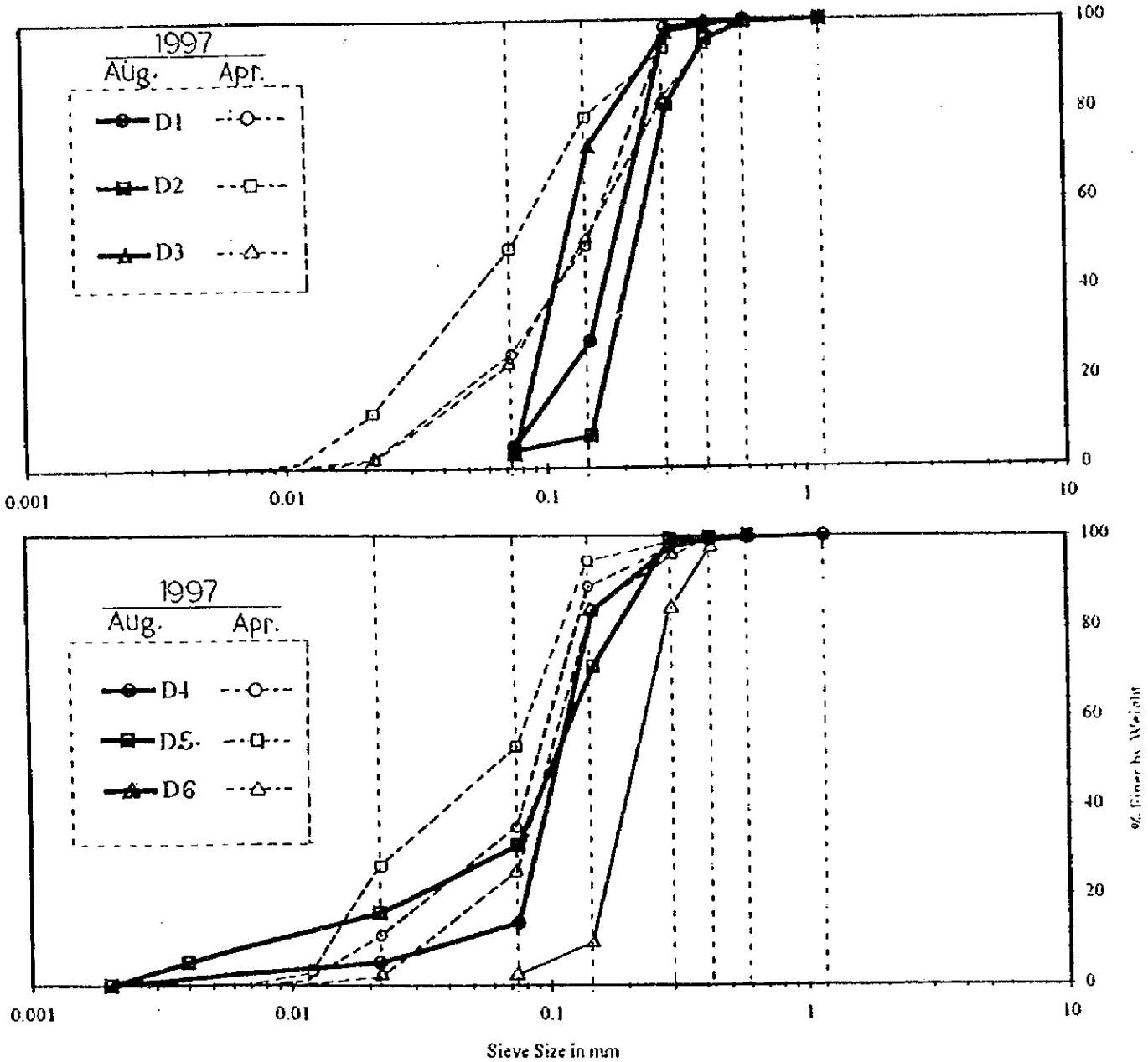



図 5.5.9　粒度分析曲線（1989 年）（3／3）




Legend : △、Apr.1997　○、Aug.1997

RIVER CROSS SECTION ALONG SAMPLING POINTS
(measured in Apr.1997)




| Grain size | D1 | | D2 | | D3 | | D4 | | D5 | | D6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Apr | Aug | Apr | Aug | Apr | Aug | Apr | Aug | Apr | Aug | Apr | Aug |
| D50(mm) | 0.14 | 0.19 | 0.776 | 0.22 | 0.133 | 0.12 | 0.09 | 0.11 | 0.06 | 0.11 | 0.031 | 0.21 |
| Cu (D60/D10) | 4.91 | 2.33 | 5.05 | 1.67 | 4.38 | 1.88 | 5.00 | 2.89 | 6.23 | 14.44 | 6.50 | 1.60 |

図5.5.10 粒度分布曲線（1997年4月および8月調査の比較）

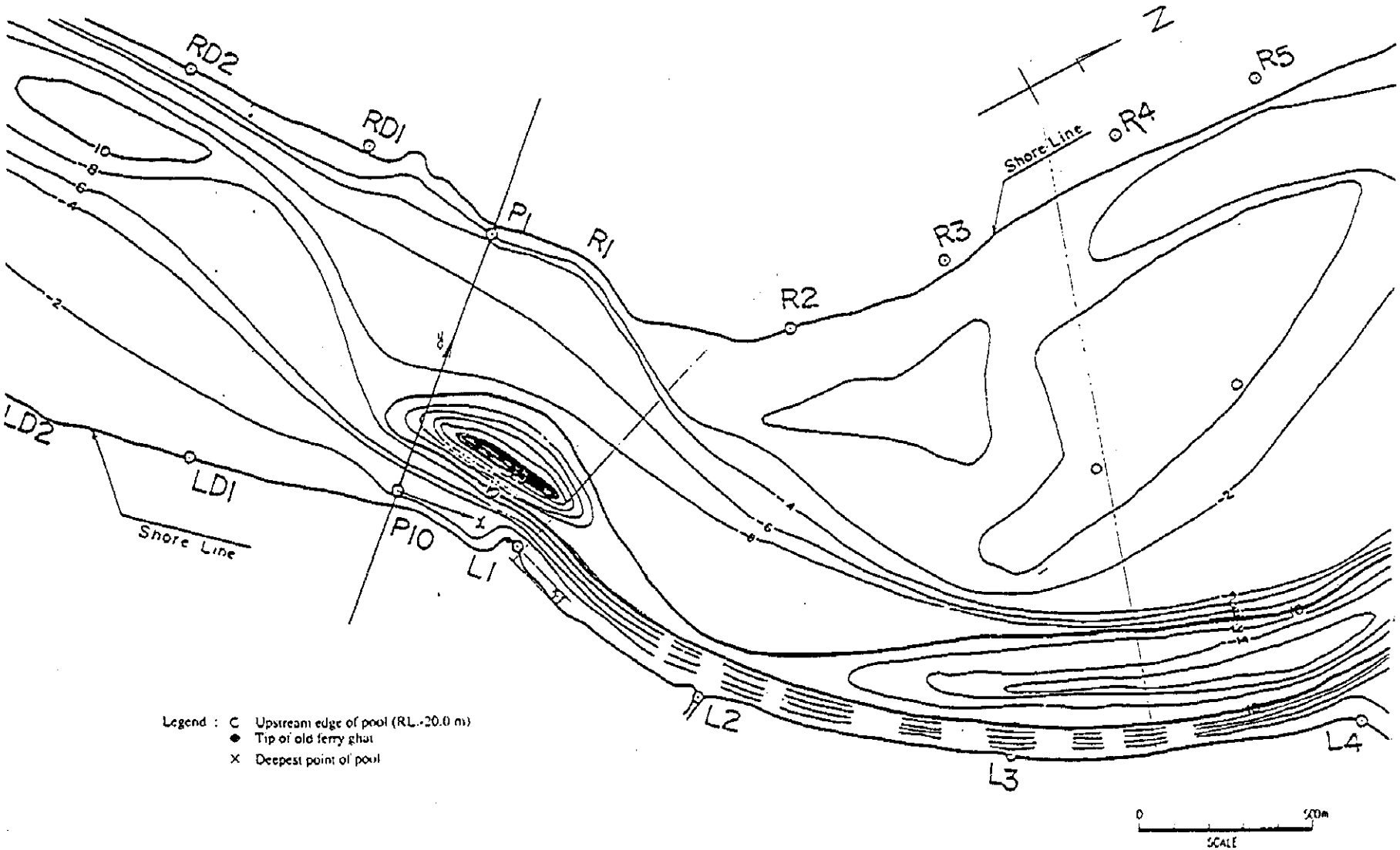



図6.2.1 河床標高図（1989年4月）（1／5）

図-6-1

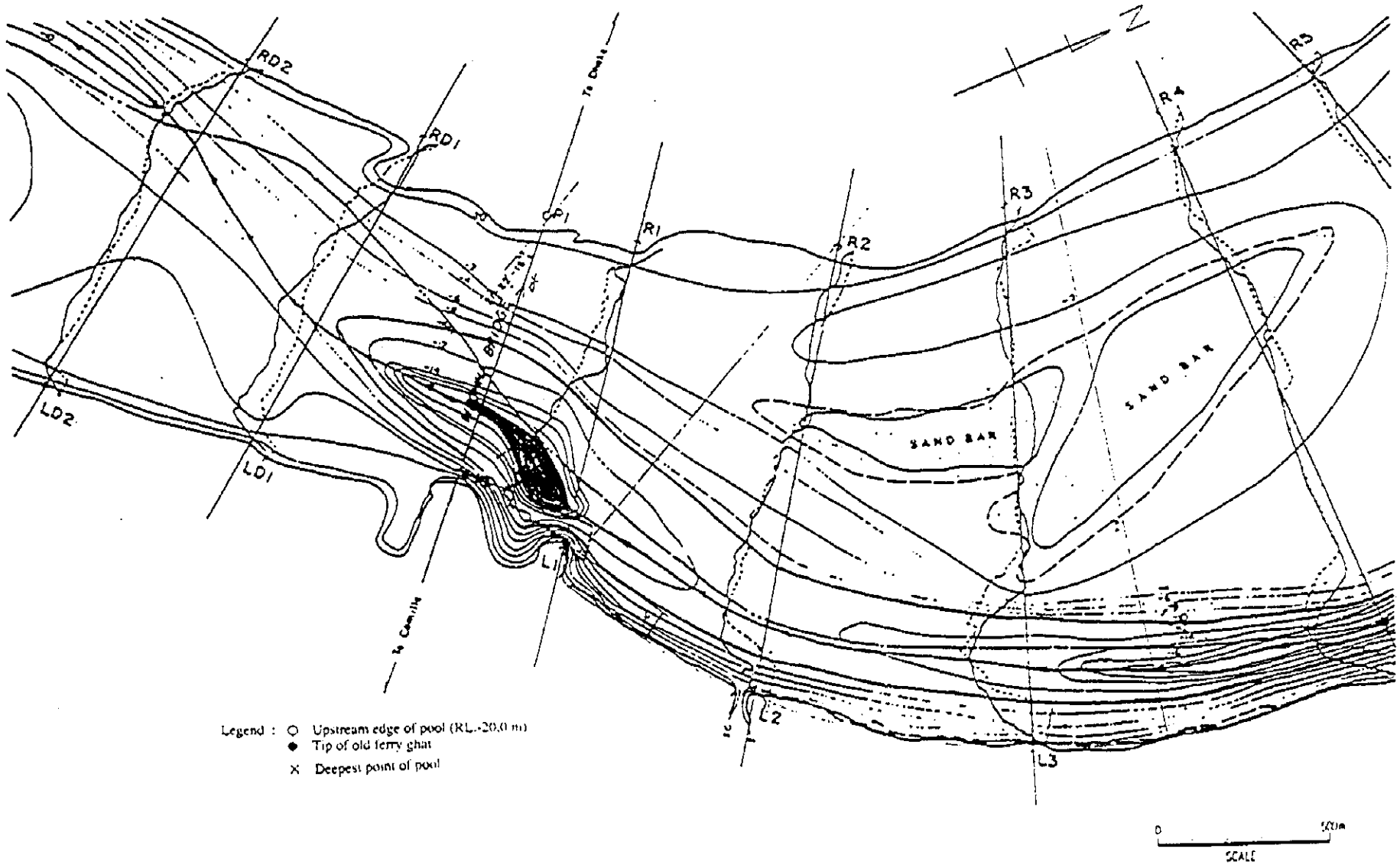



図 6.2.1　河床標高図（1992年6月）（2／5）

図-6-2

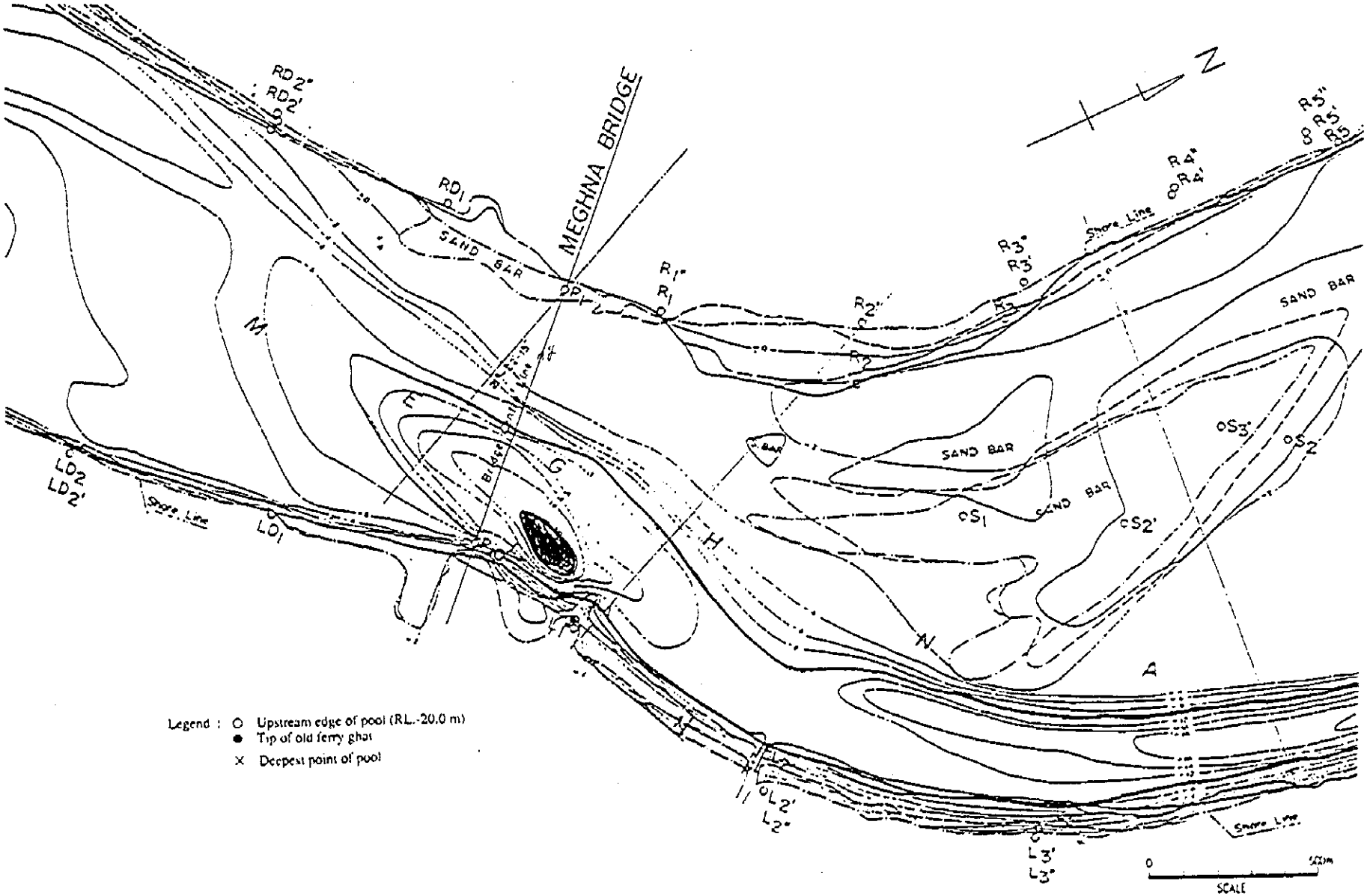



図 6.2.1　河床標高図（1994年1月）（3／5）

図-6-3

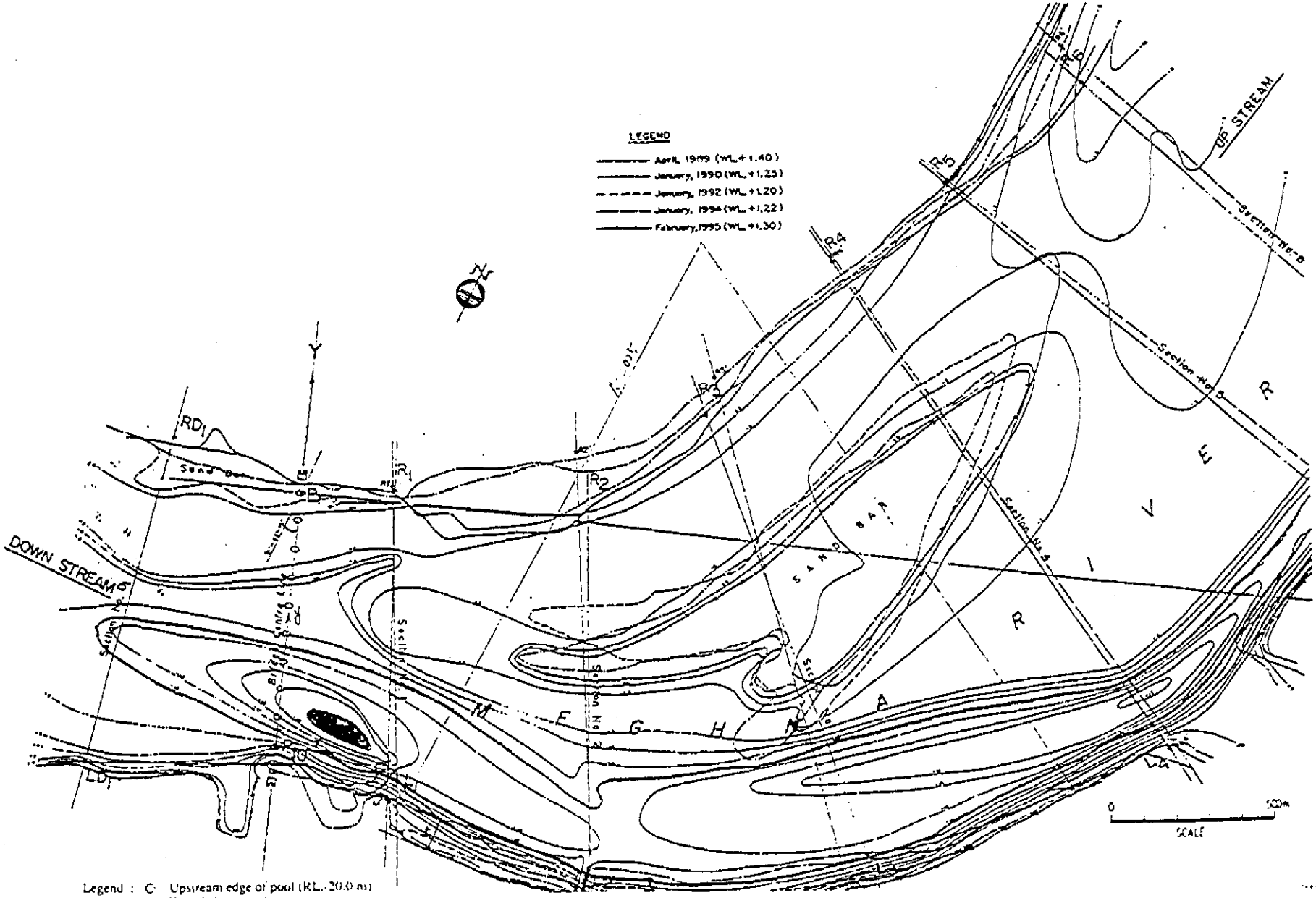
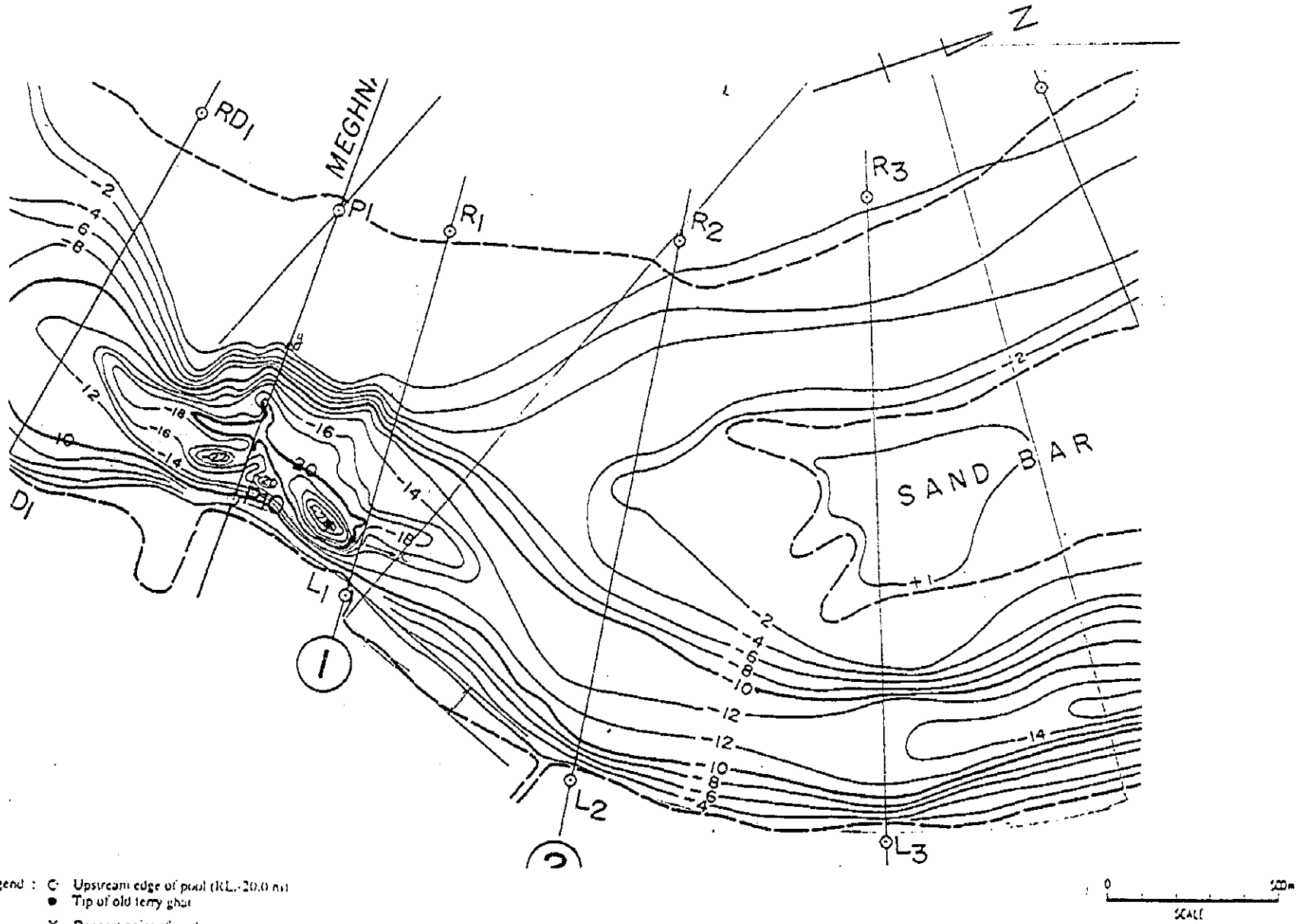



図 6.2.1 河床標高図（1995年２月）（4／5）

図-6-4




Legend : ○ Upstream edge of pool (KL.-20.0 m)
● Tip of old ferry ghat
× Deepest point of pool

図 6.2.1 河床標高図（1997年8月）（5／5）

図-6-5

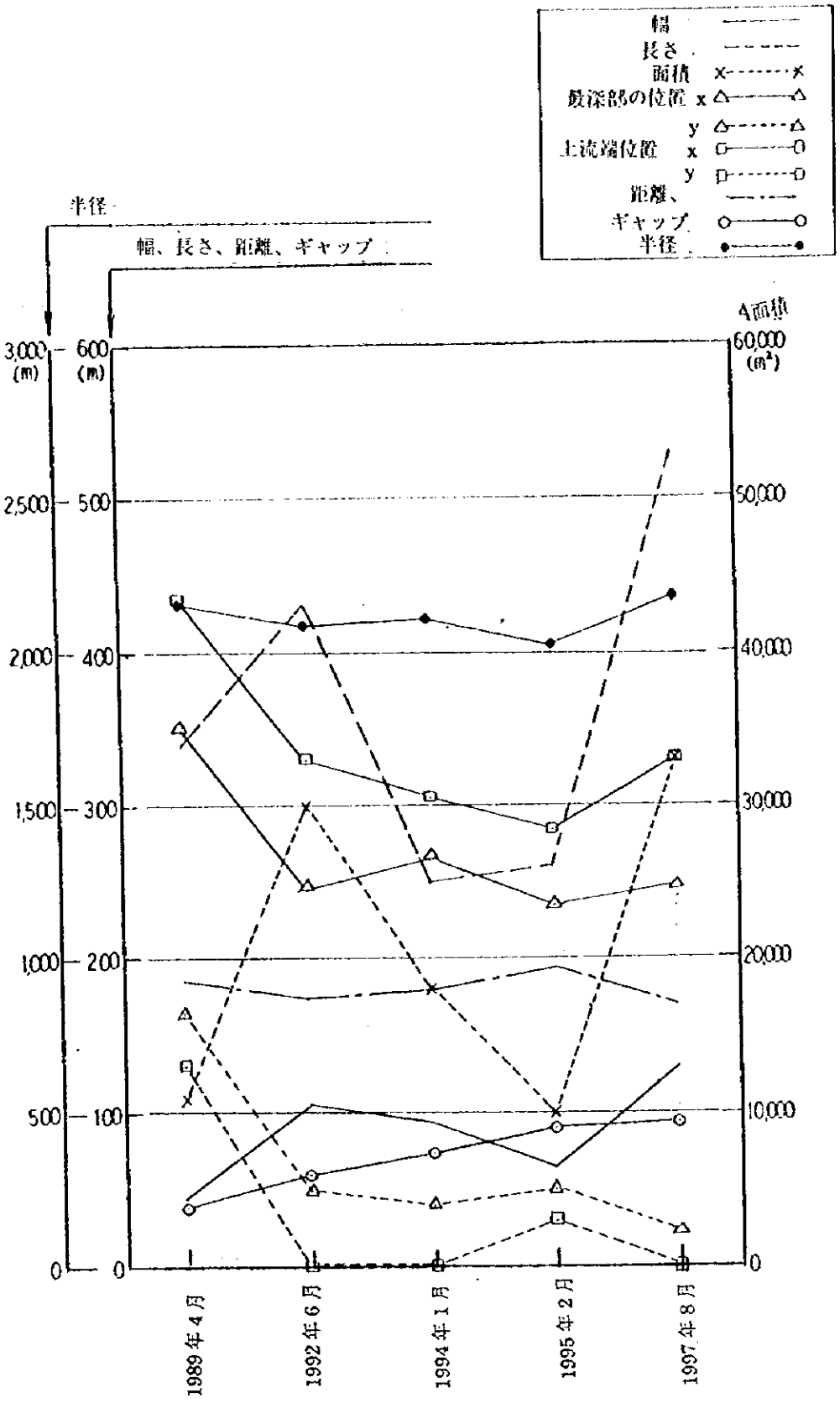



図 6.2.2　深掘れ部の経年的推移

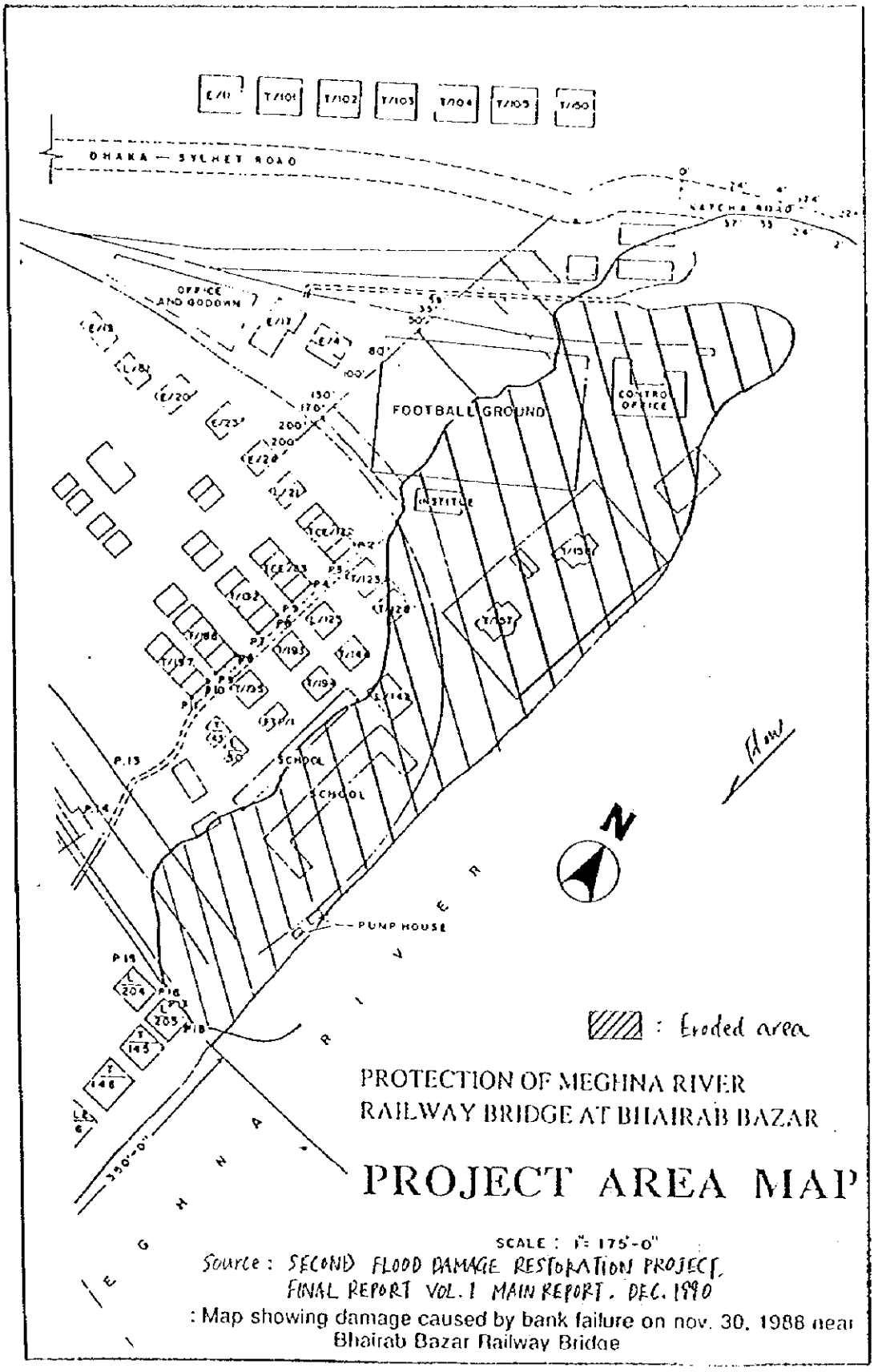



図 7.1.1　バイラブ・バザール河岸崩壊状況（1988 年 11 月）

図-7-1

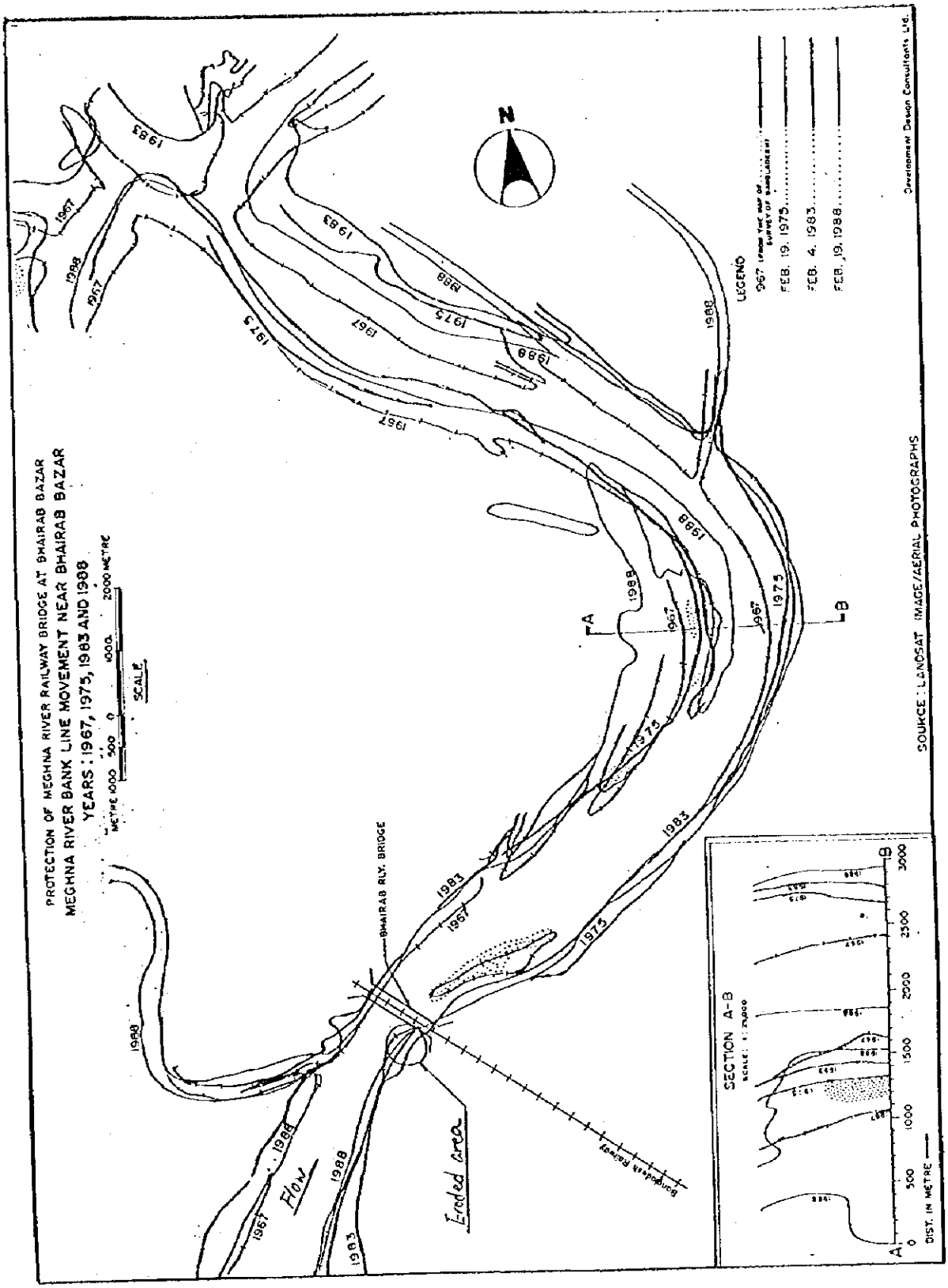



図 7.1.2　バイラブ・バザール周辺河道平面図

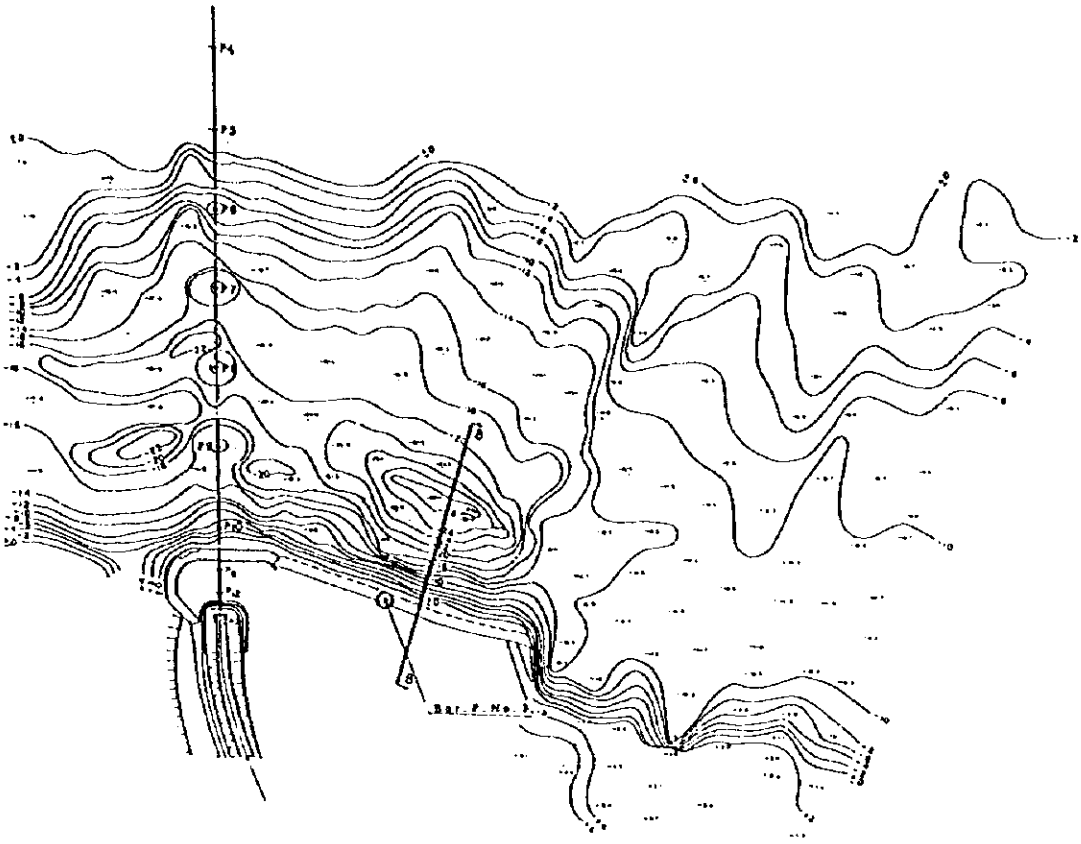


図 7.1.3　滑りに対する安全性の検討位置（Section 8-8）

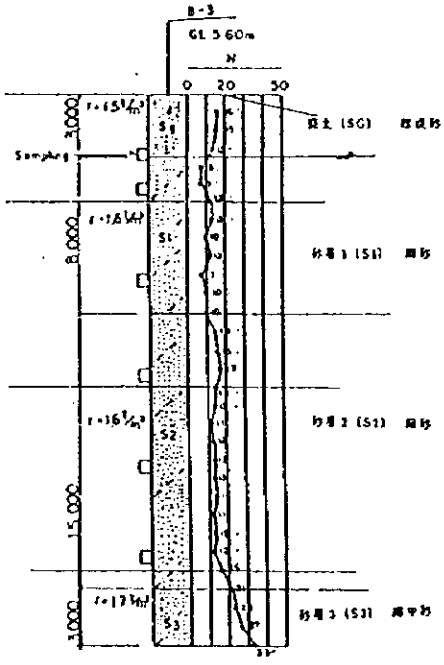



図 7.1.4　土 層 構 成

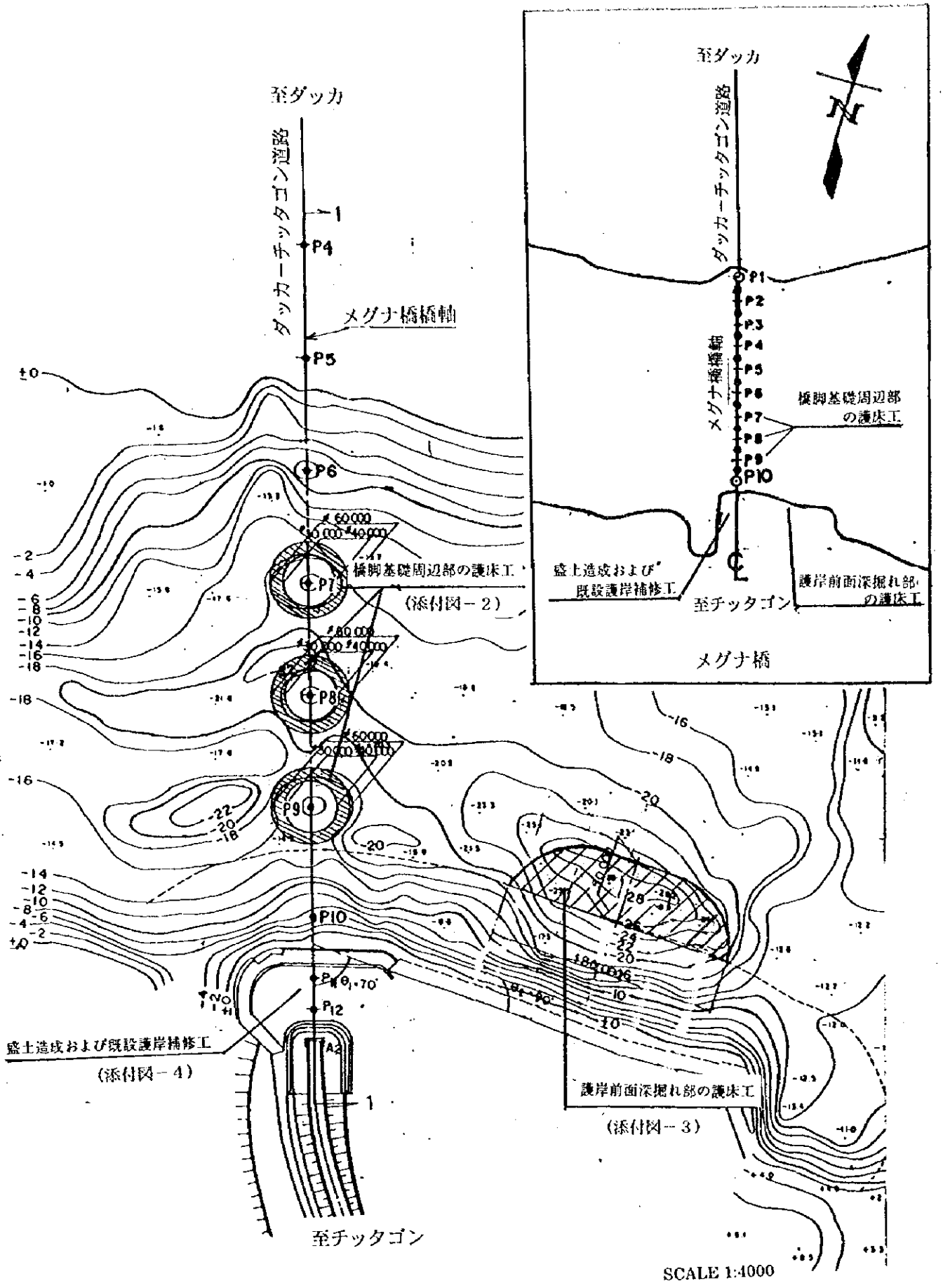

至ダッカ
ダッカ－チッタゴン道路
メグナ橋橋軸
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P12
橋脚基礎周辺部の護床工
(添付図－2)
盛土造成および既設護岸補修工
(添付図－4)
護岸前面深掘れ部の護床工
(添付図－3)
至チッタゴン
メグナ橋
SCALE 1:4000

図 8.2.1　対策工位置図

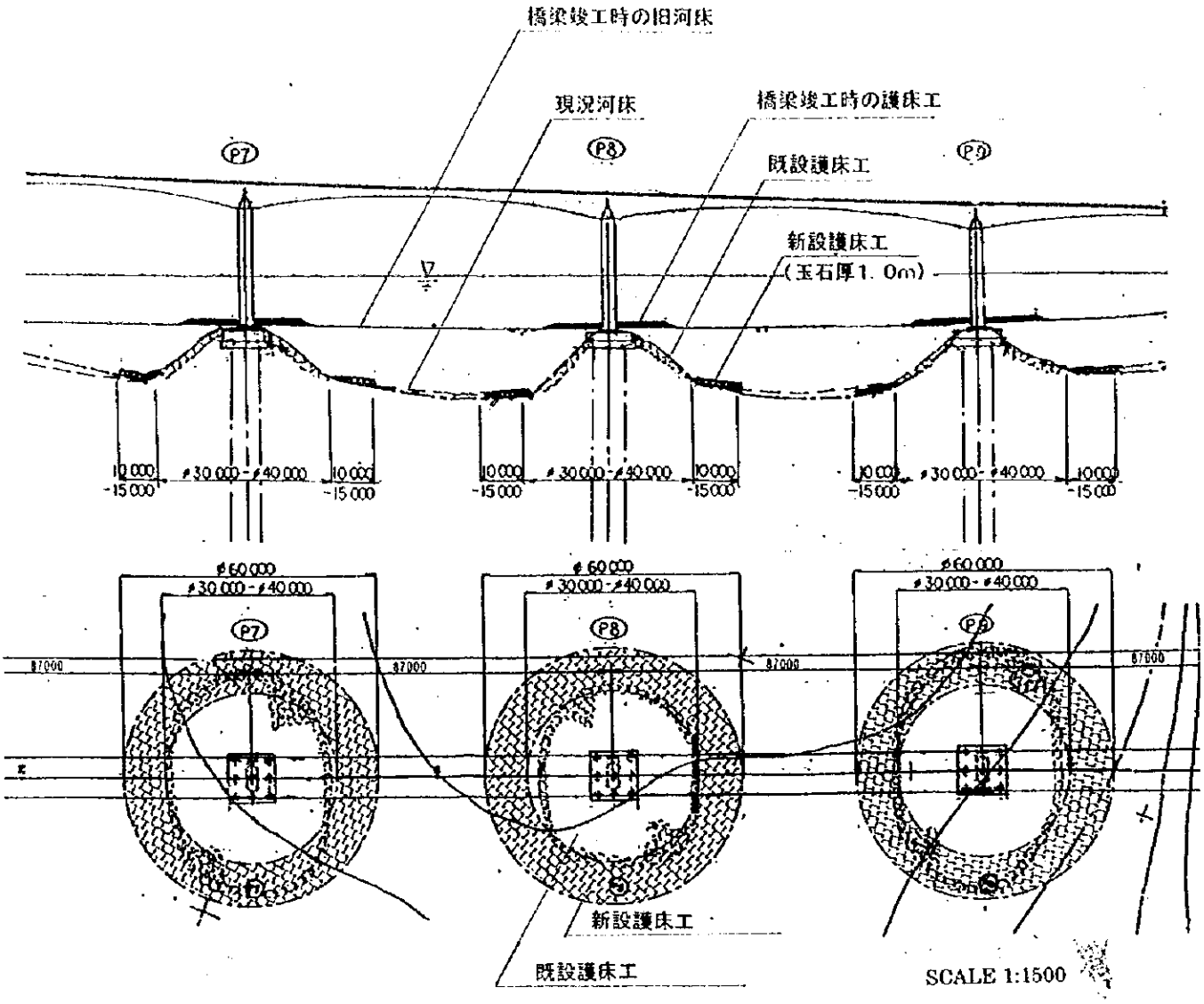



図 8.2.2　橋梁基礎周辺部の護床工（P7、P8、P9）

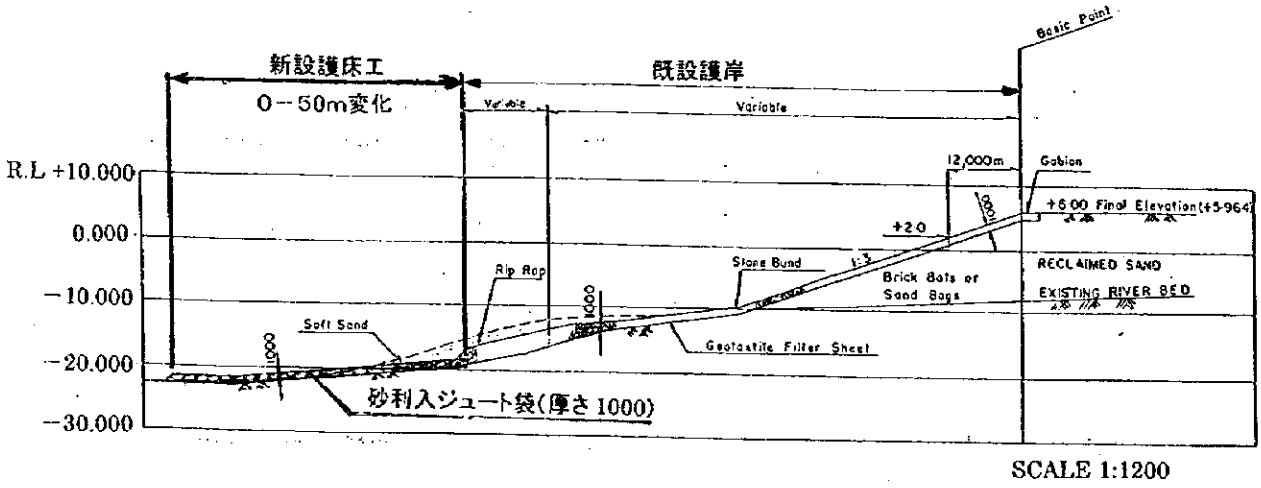



図 8.2.3　護岸前面部深掘部河床の護床工標準断面図

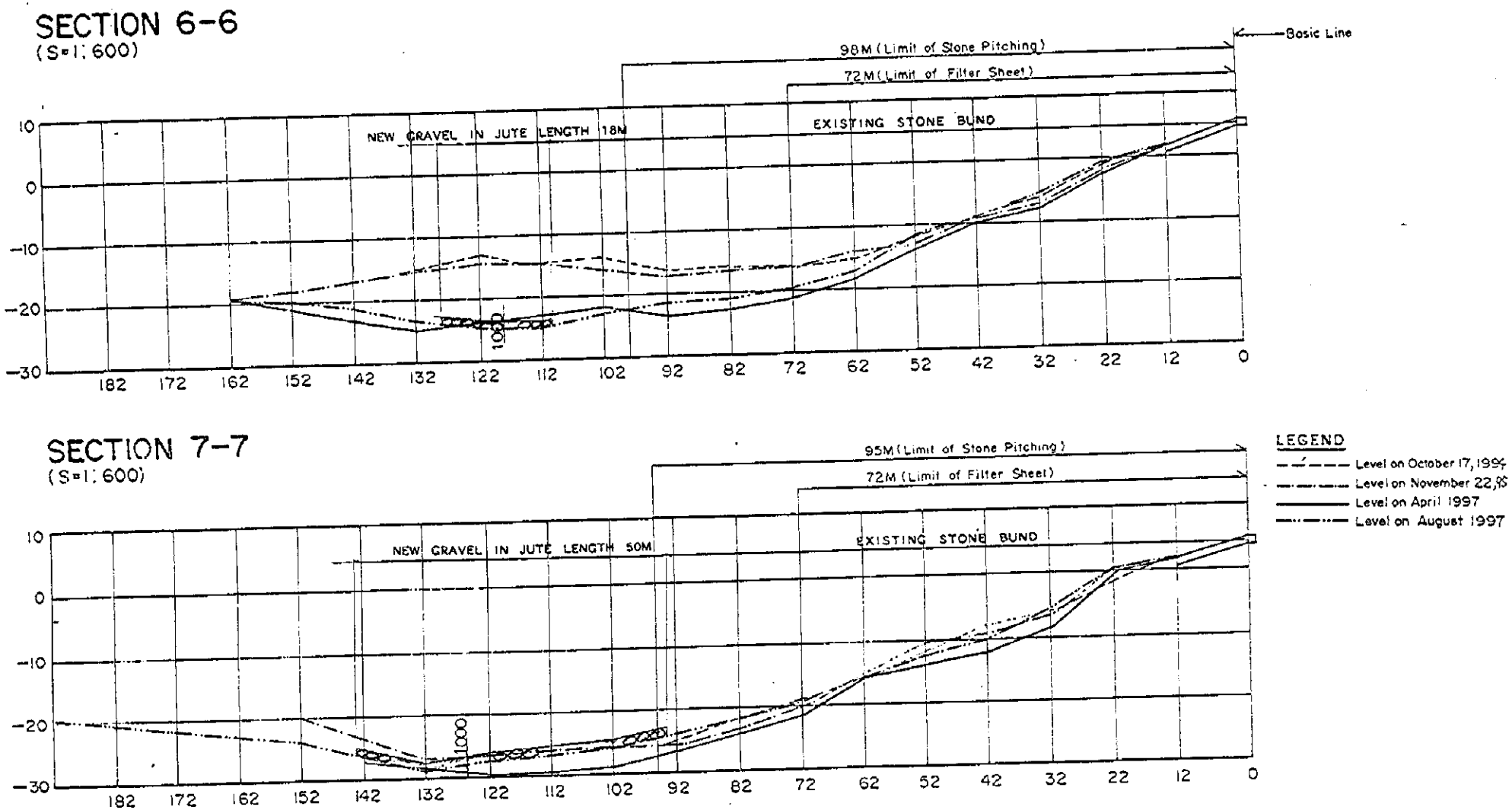



図8.2.4　護岸前面部深掘部河床の護床工断面図（1／3）

図-8-3

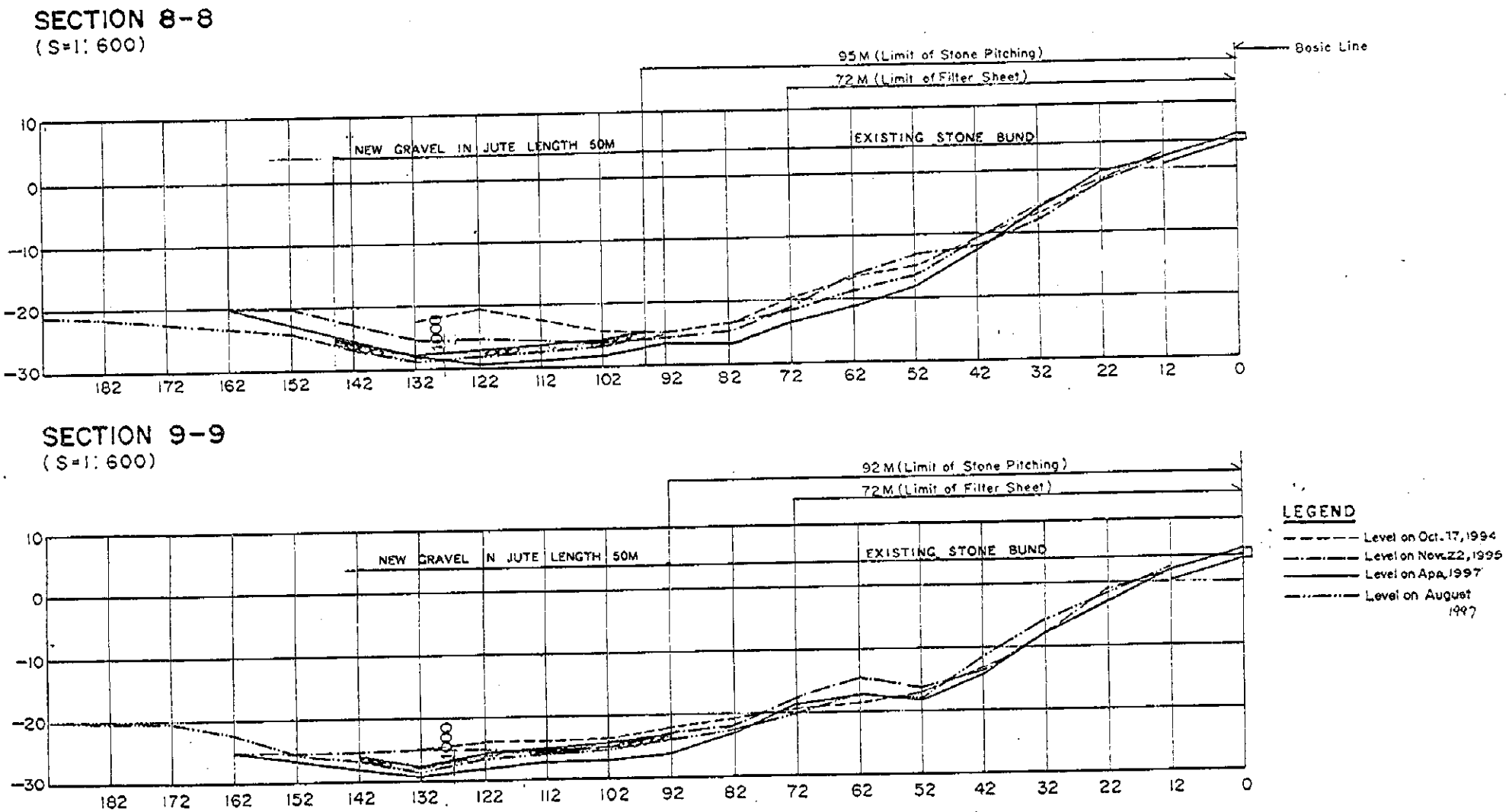



図8-4

図 8.2.4　護岸前面部深掘部河床の護床工断面図（2／3）

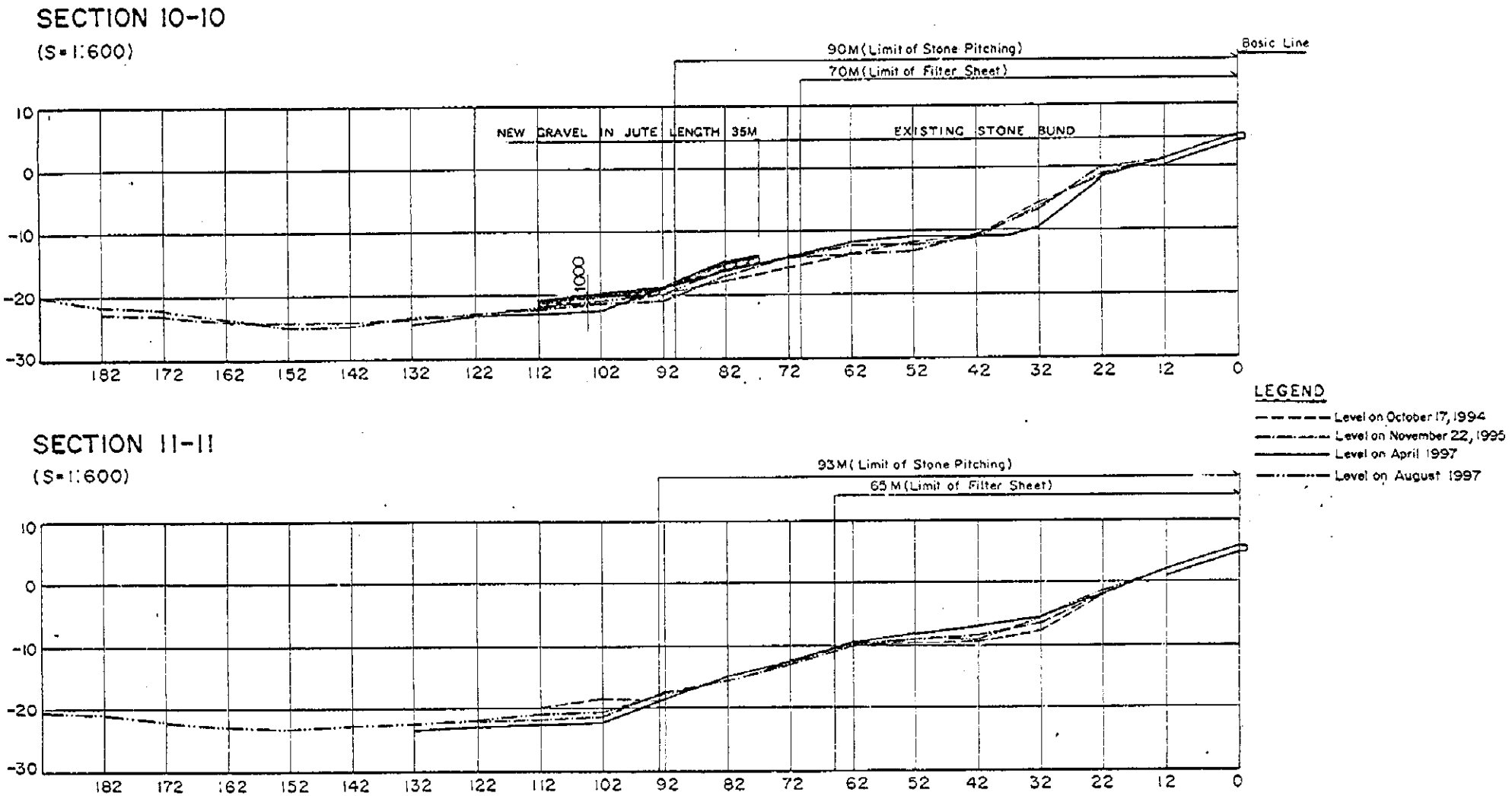



図8.2.4　護岸前面部深掘部河床の護床工断面図（3／3）

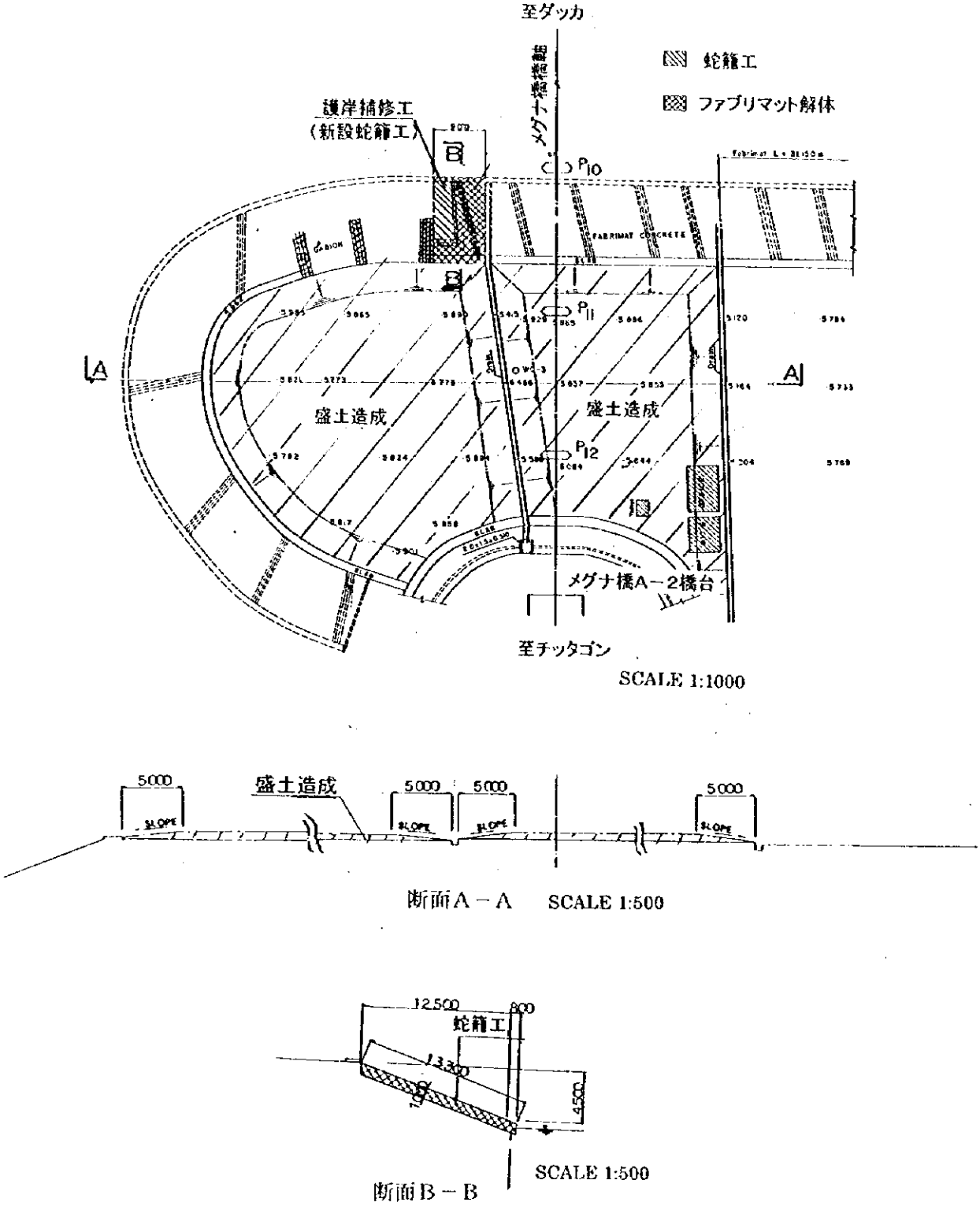



図 8.2.5　左岸側橋梁直下周辺の盛土造成および既設護岸補修

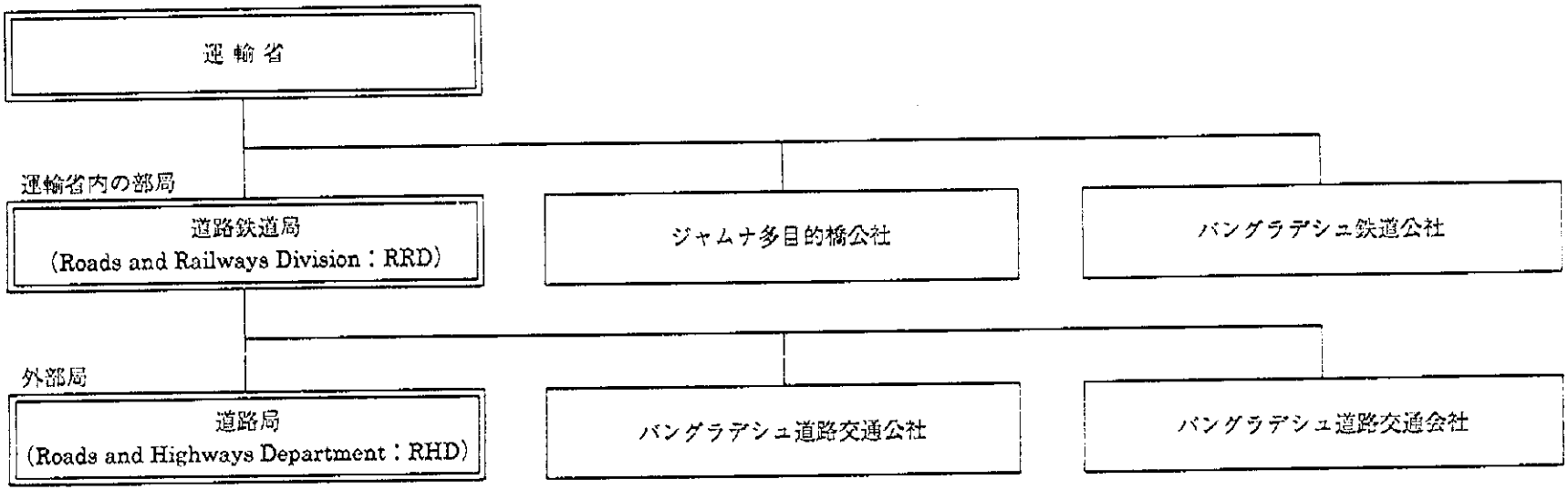

運輸省
運輸省内の部局
道路鉄道局
(Roads and Railways Division : RRD)
ジャムナ多目的橋公社
バングラデシュ鉄道公社
外部局
道路局
(Roads and Highways Department : RHD)
バングラデシュ道路交通公社
バングラデシュ道路交通会社

図 8.3.1　運輸省組織図

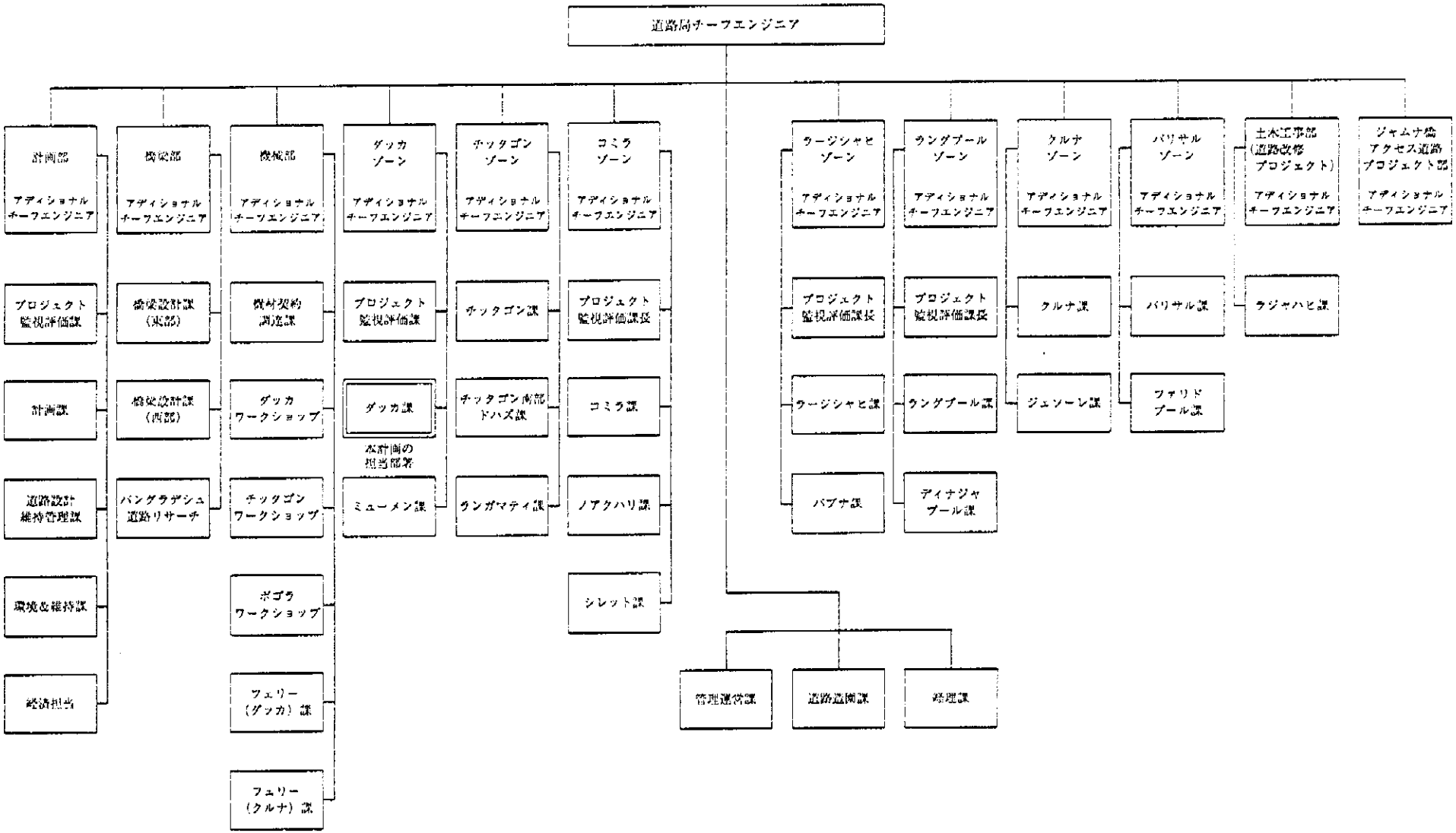



図 8.3.2　道路局（RHD）組織図

案件名　バングラデシュ国メグナ橋護岸改修計画

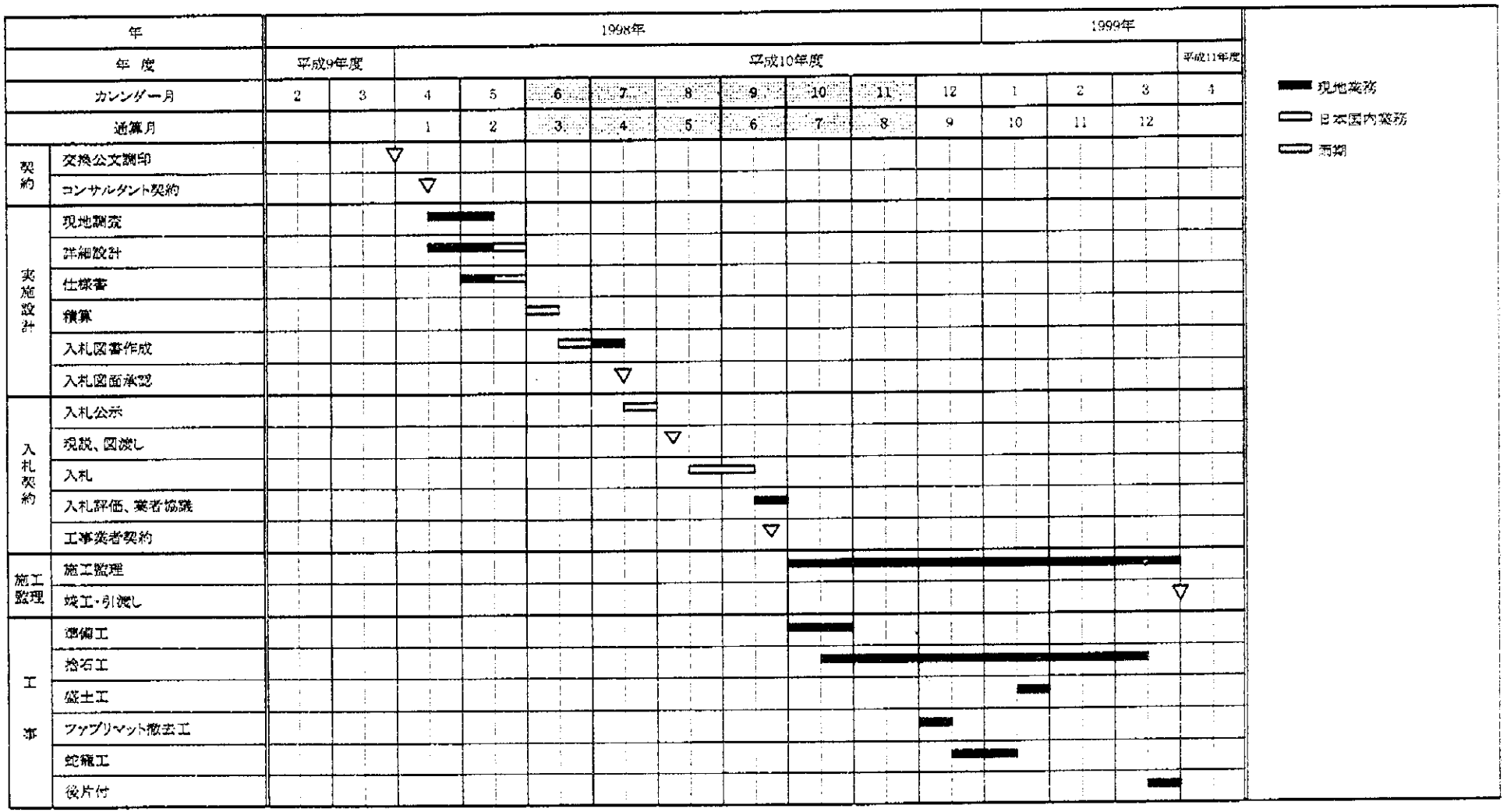



図 8.4.1　工程表

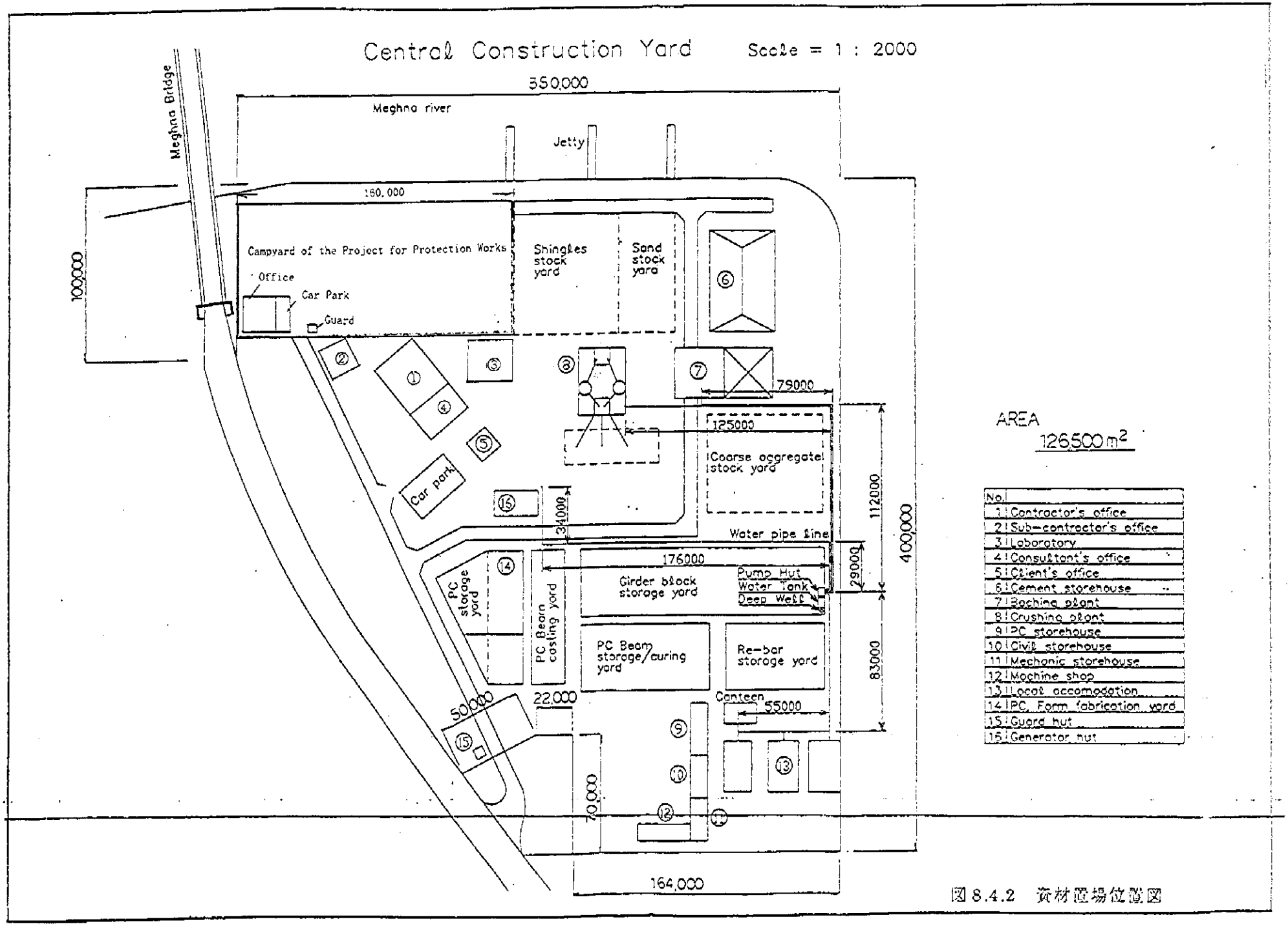
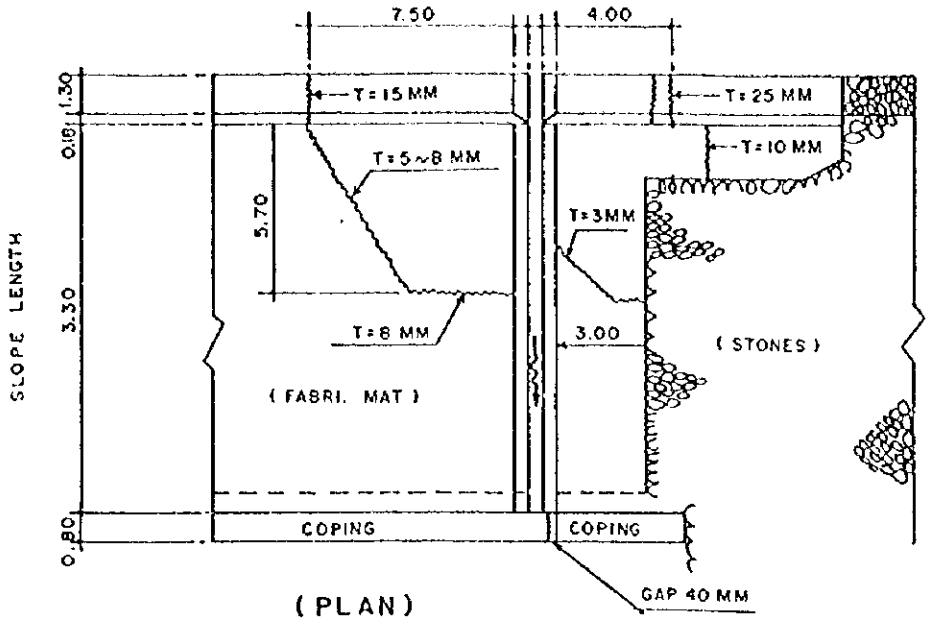


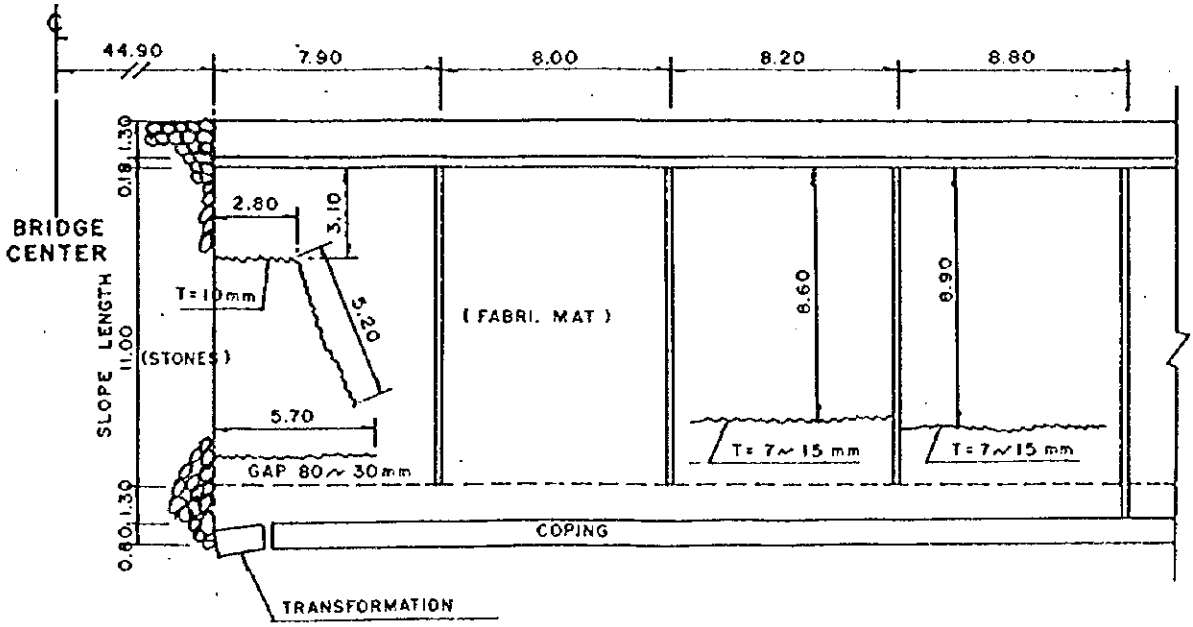

図8.4.2 資材置場位置図

図-8-10




SCALE＝1：200

左岸側橋梁直下護岸工亀裂状況




SCALE＝1：200

左岸側下流護岸工亀裂状況

図 8.4.3　護岸工亀裂状況図

JICA