添付図

プノンペン市都市排水・洪水対策計画調査

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Base map: APUR BAU

- Dense activities (activities and industries requiring important buildings and infrastructure)
- Dense urban centre (important buildings, chinese compartments, side by side houses)
- Dense residential (urban villas, buildings with small gardens)
- Loose residential (small villas and buildings, much green spaces and agricultural land)
- Loose activities (small-size activities mixed with residential or waste grounds)
- Agricultural land (rice fields, unused land, important vegetable or fruit gardens)
- Green spaces and parks (all urban green spaces of noticeable size, exluding villa gardens)
- Fish Ponds
- Lakes and ponds (all water-covered surfaces, including rivers and swamps)

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JICA - CTIE International Co., Ltd. - Nippon Koei Co., Ltd.

図 12-1
将来土地利用図

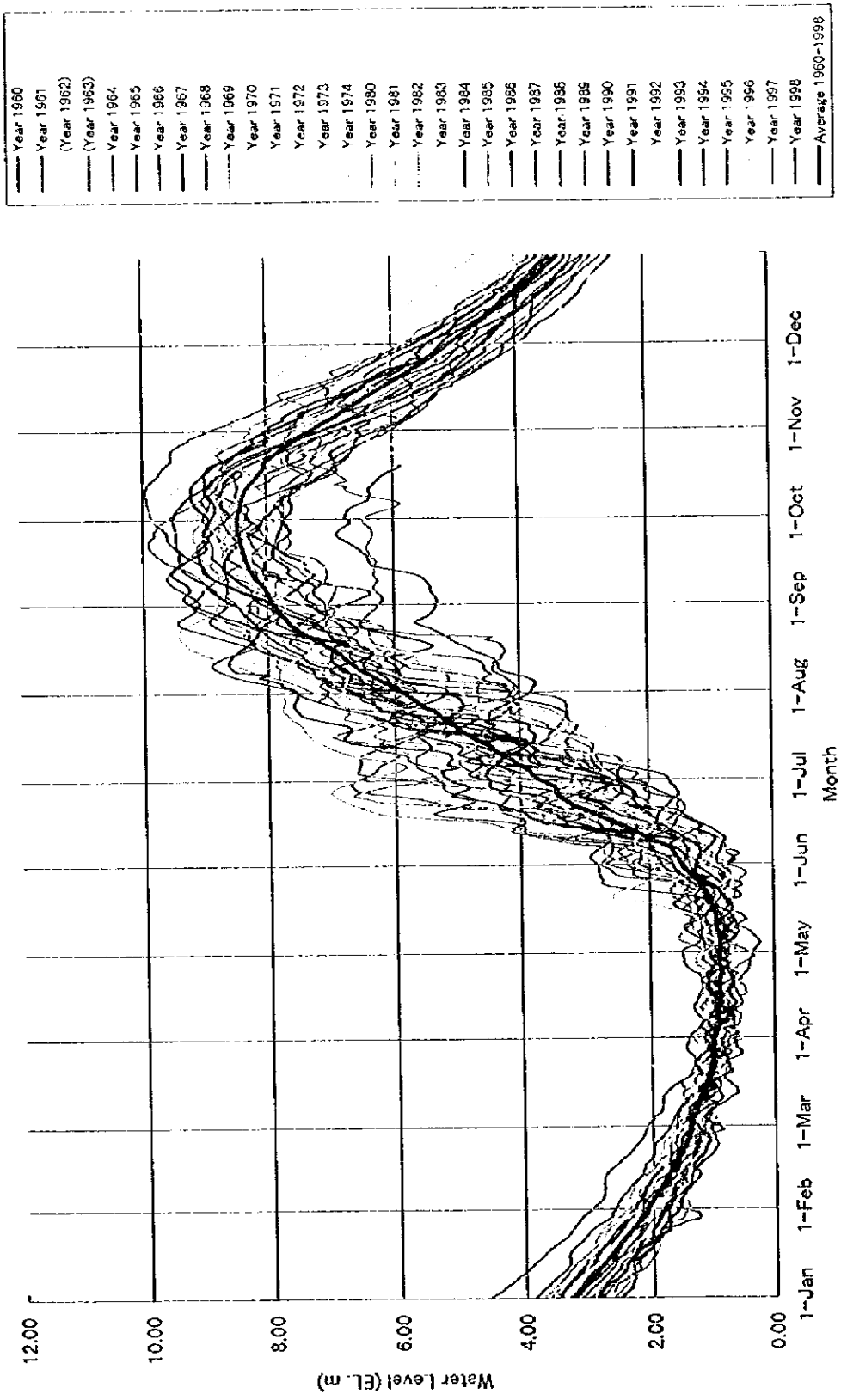

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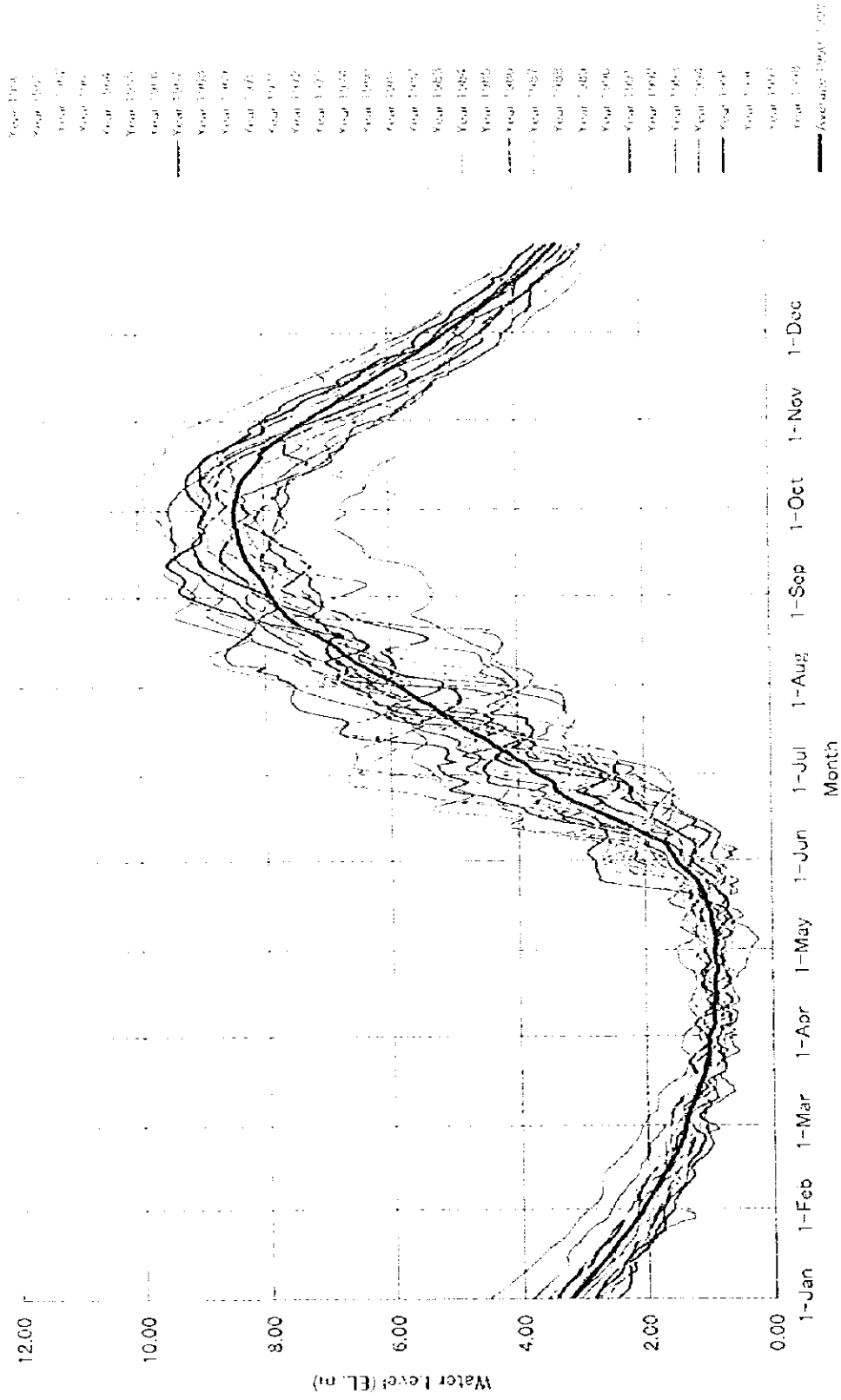
図 I2-2
Chaktomuk 観測所地点水位変動図



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 12-2 Chaktomuk 観測所地点水位変動図

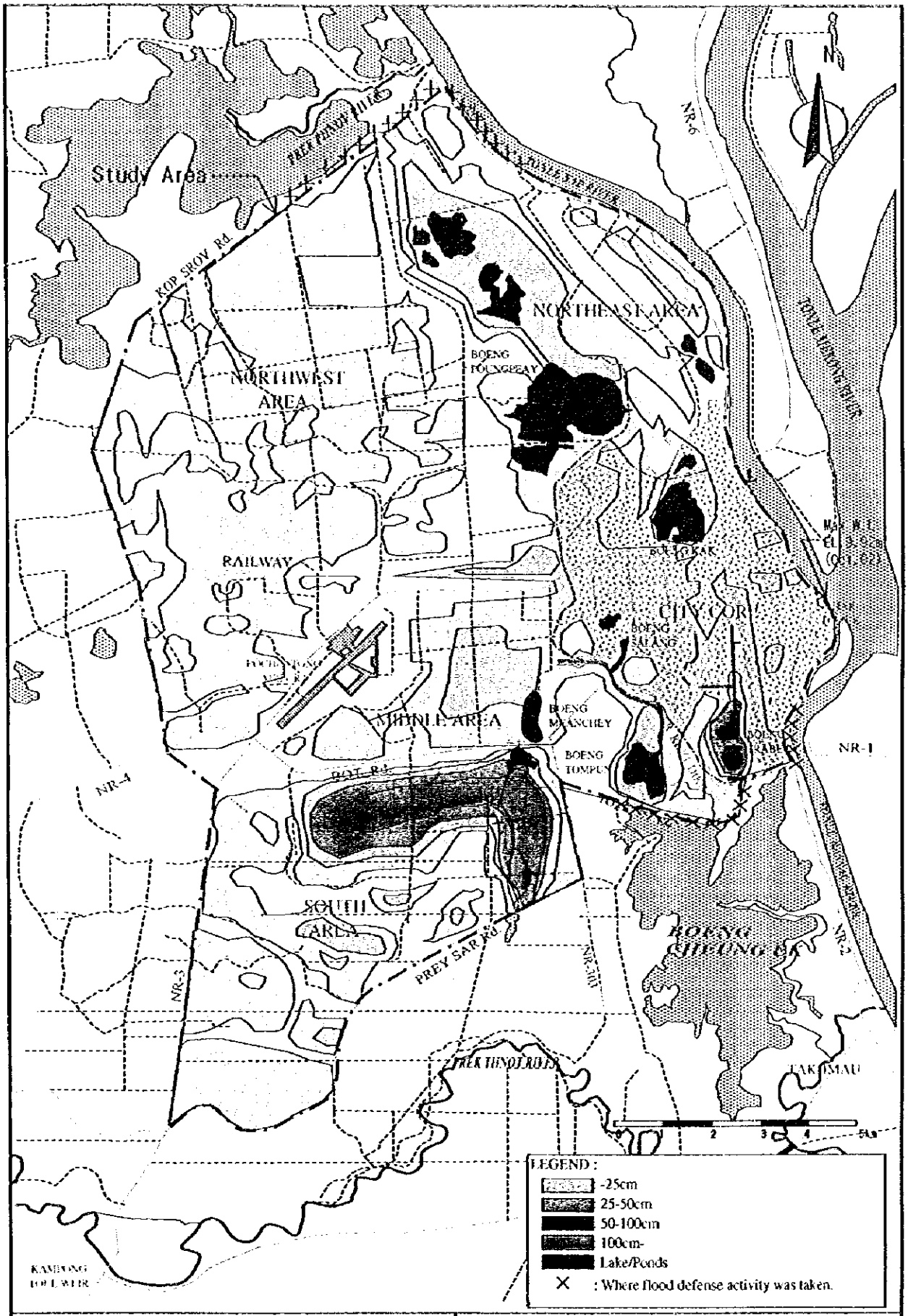


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図 12-3
1996年湛水域図

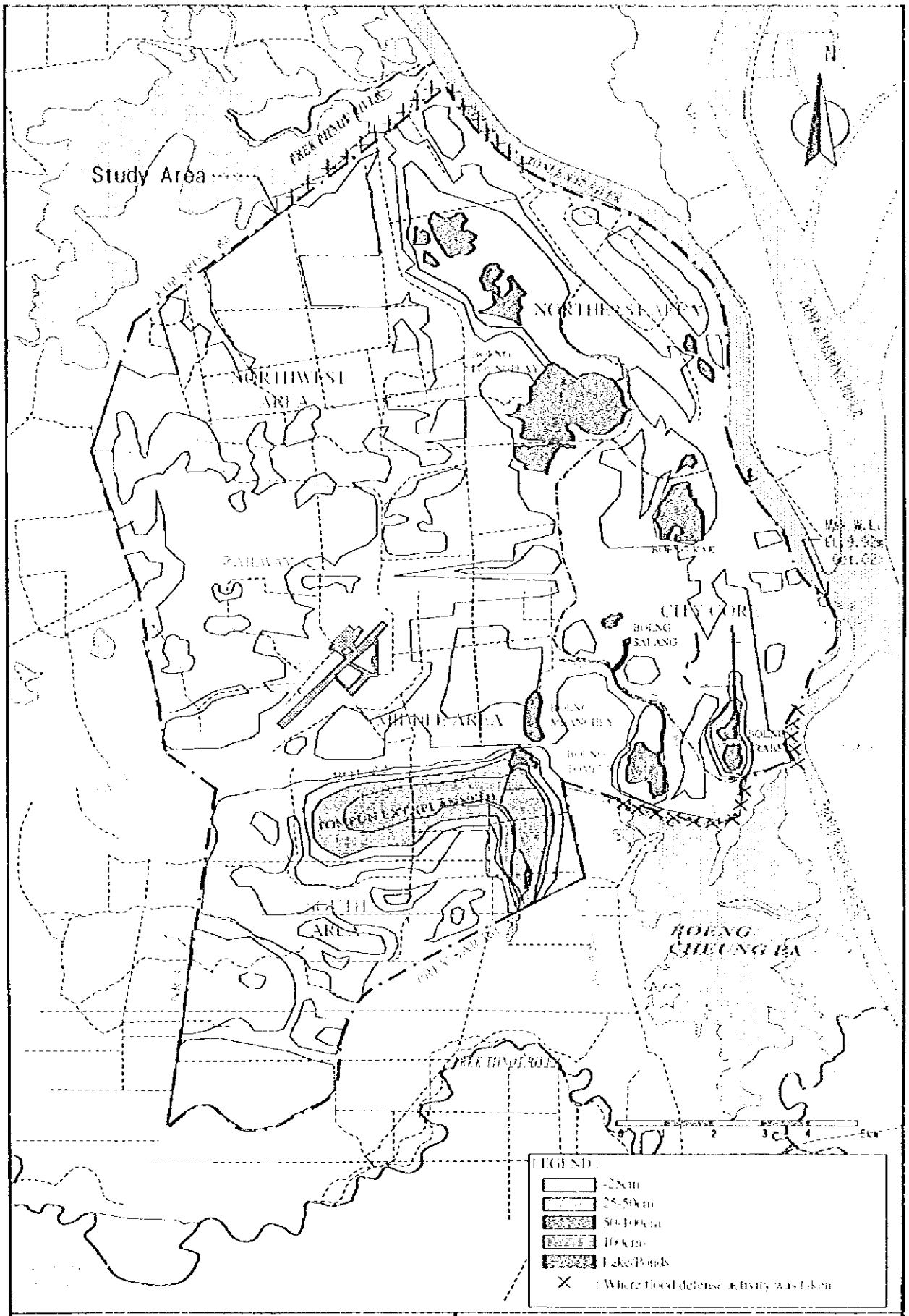

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図 12-3
1996年浸水域図

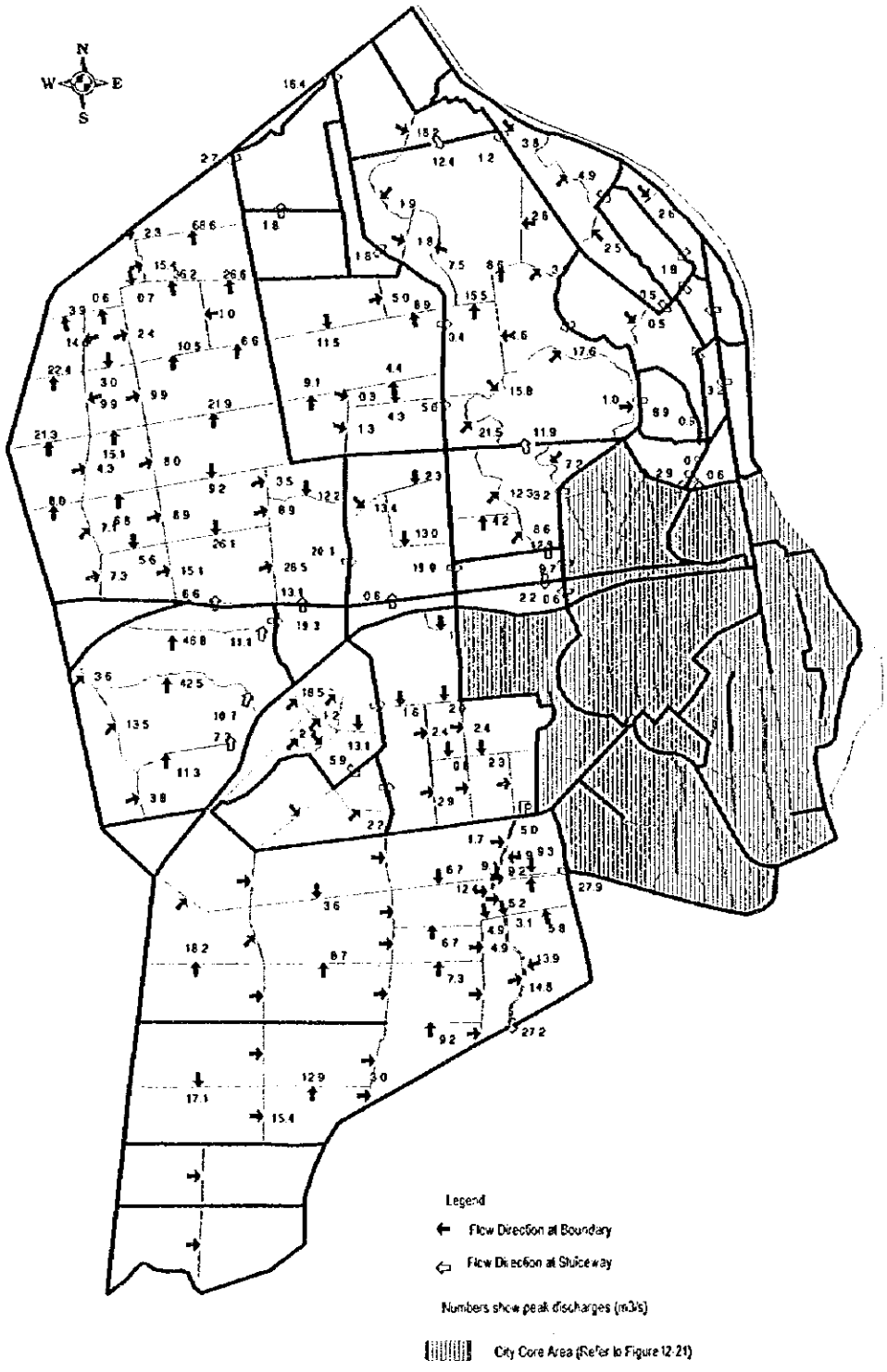

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図 12-4
流向・最大流量計算結果
(Case5市街地外部、5年確率、計画実施後)

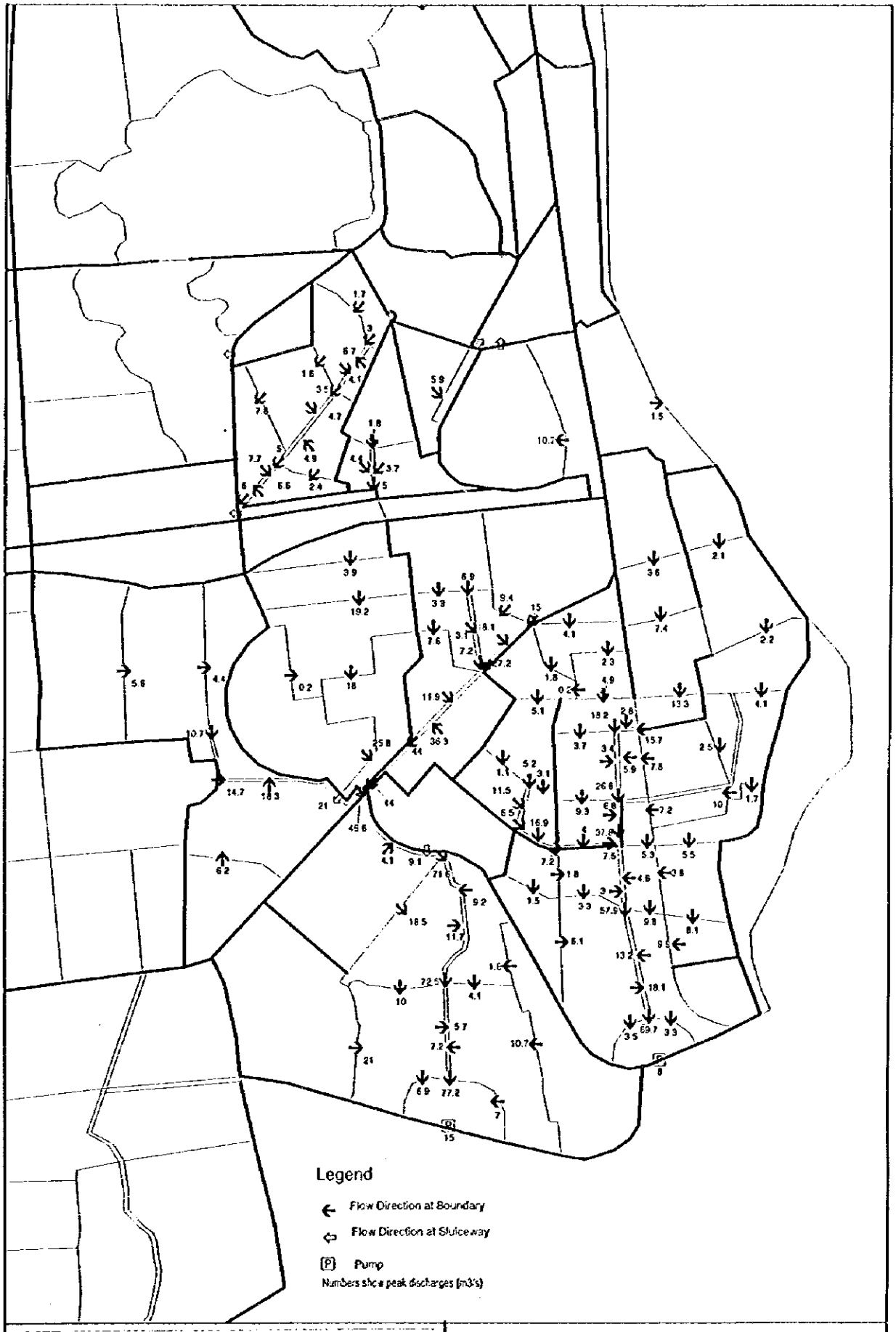

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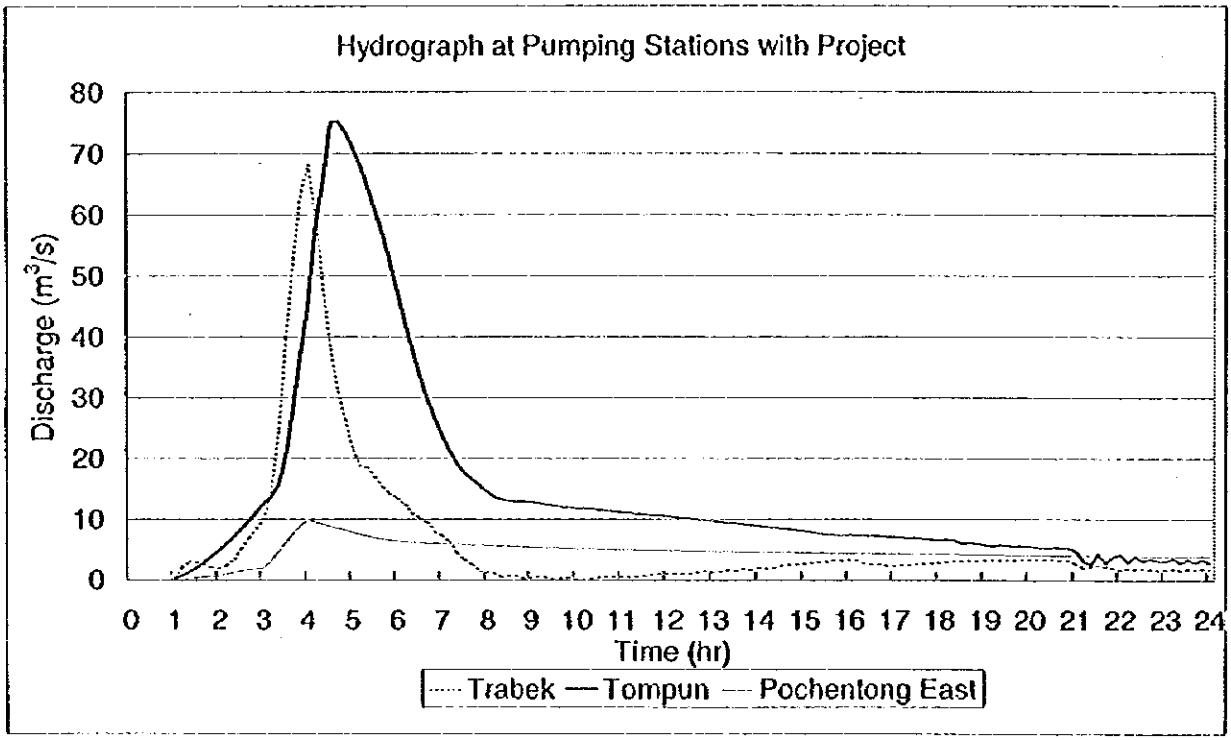
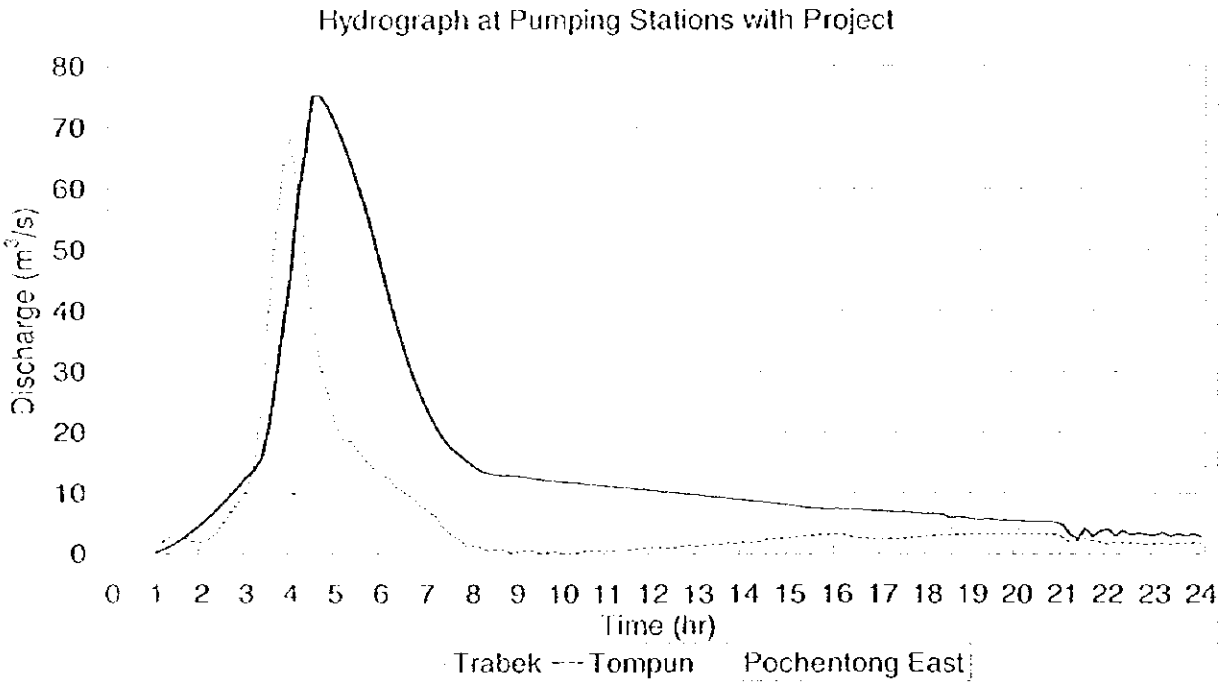
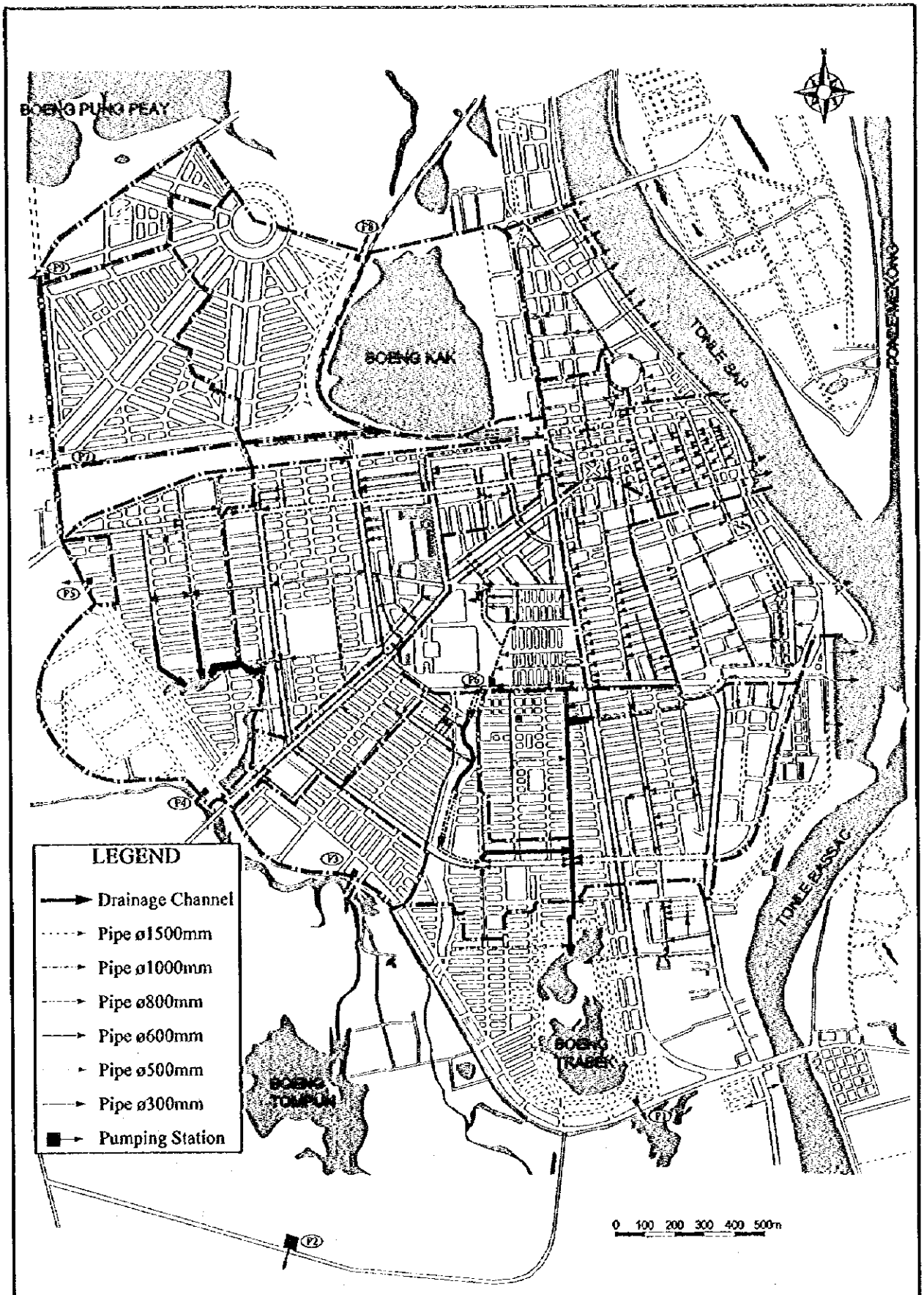
図 12-5
流向・最大流量計算結果
(Case5市街地部、5年確率、計画実施後)



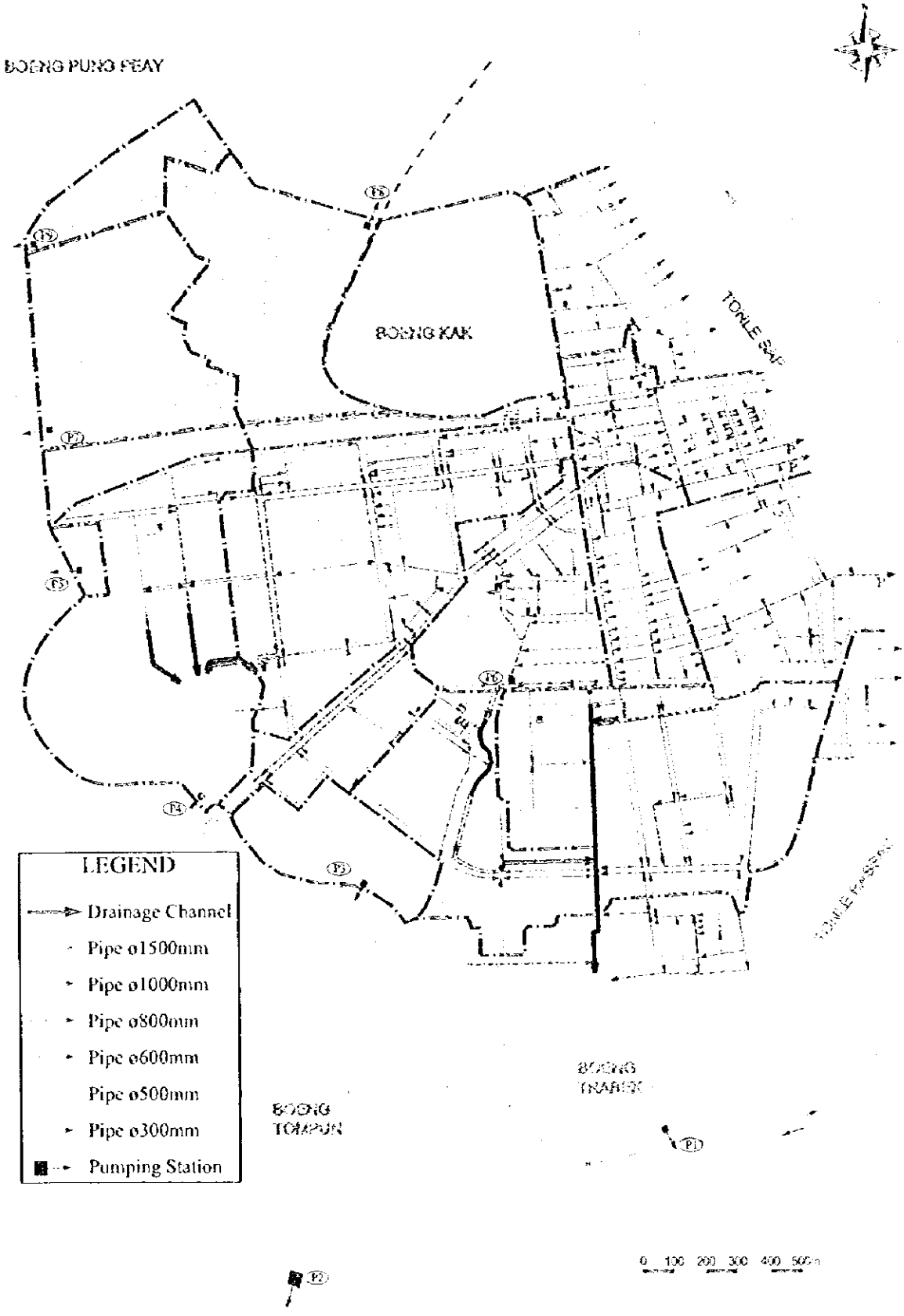
The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA - CTIE International Co., Ltd. - Nippon Koei Co., Ltd.	図 J2-6 ポンプ場地点ハイドログラフ (5年確率、計画実施後)



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA - CTIE International Co., Ltd. - Nippon Koei Co., Ltd.	図12-6 ポンプ場地点ハイドログラフ (5年確率、計画実施後)

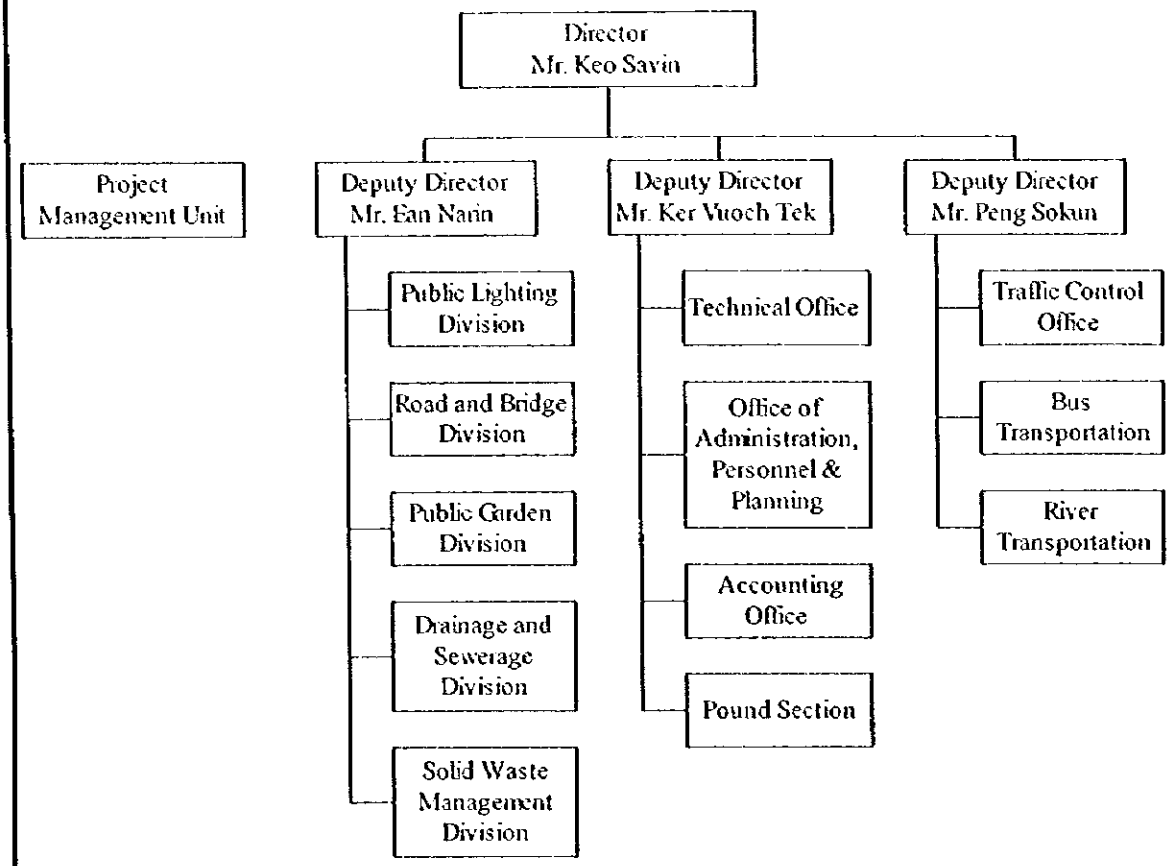


The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA - CTIE International Co., Ltd. - Nippon Koei Co., Ltd.	図 I2-7 既設排水管網

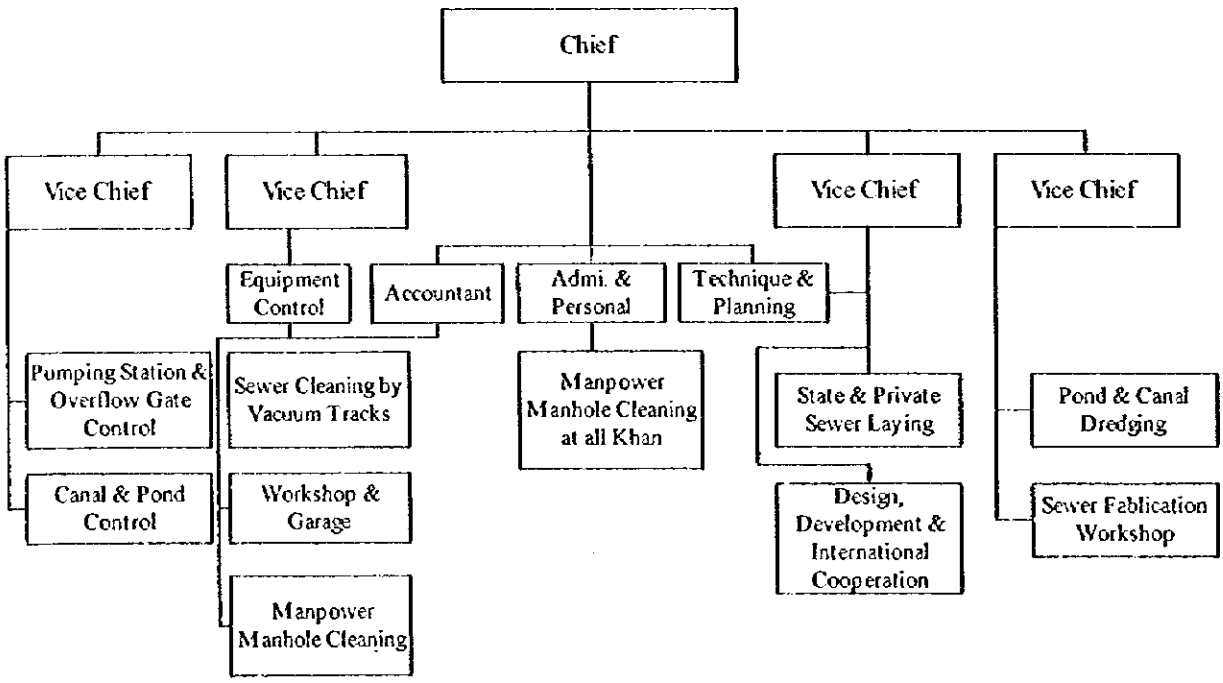


The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA - CTIE International Co., Ltd. - Nippon Koei Co., Ltd.	図 I2-7 既定排水計画

Organizational Structure of Department of Public Works and Transport



Organizational Structure of Drainage and Sewage Division



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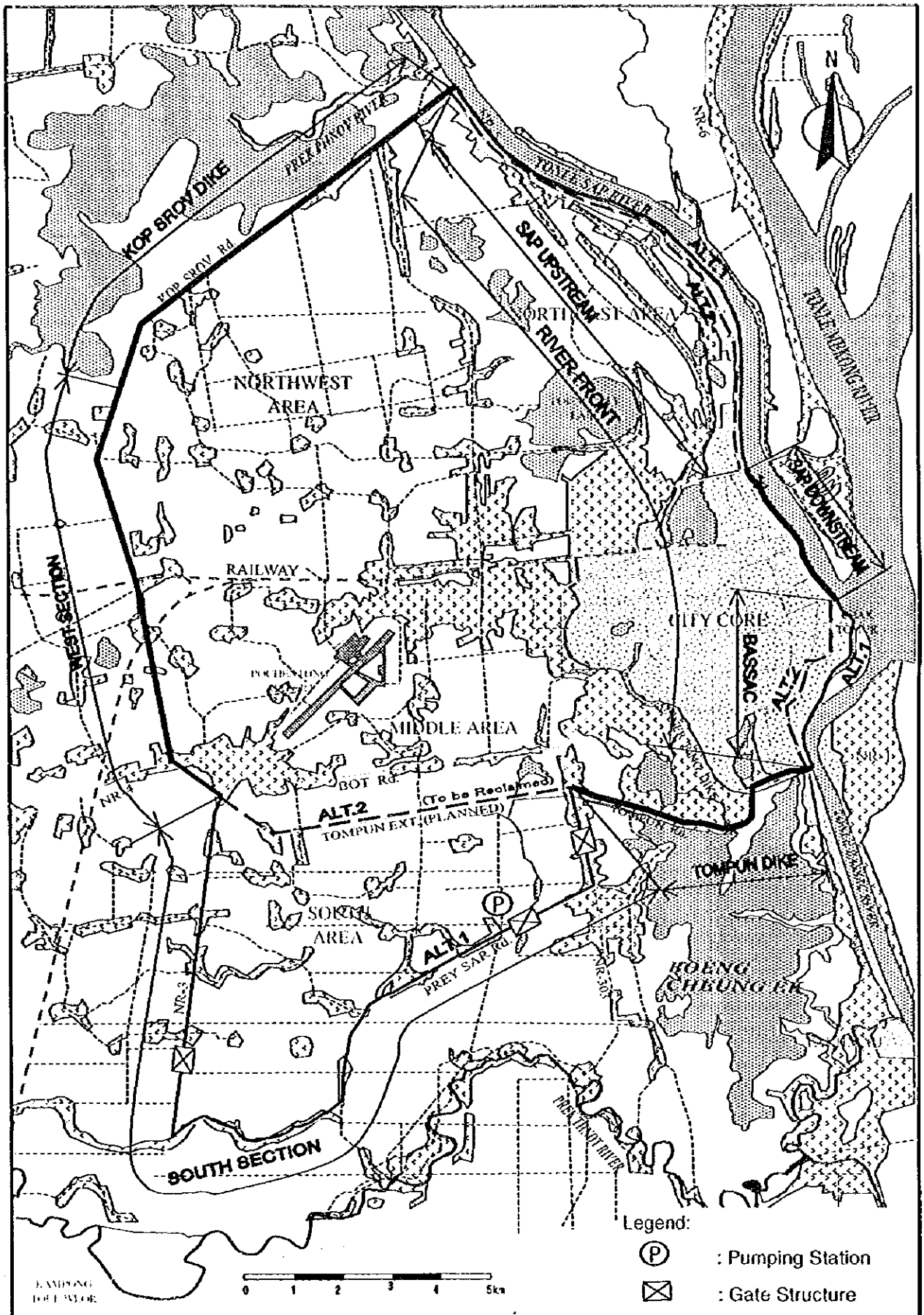

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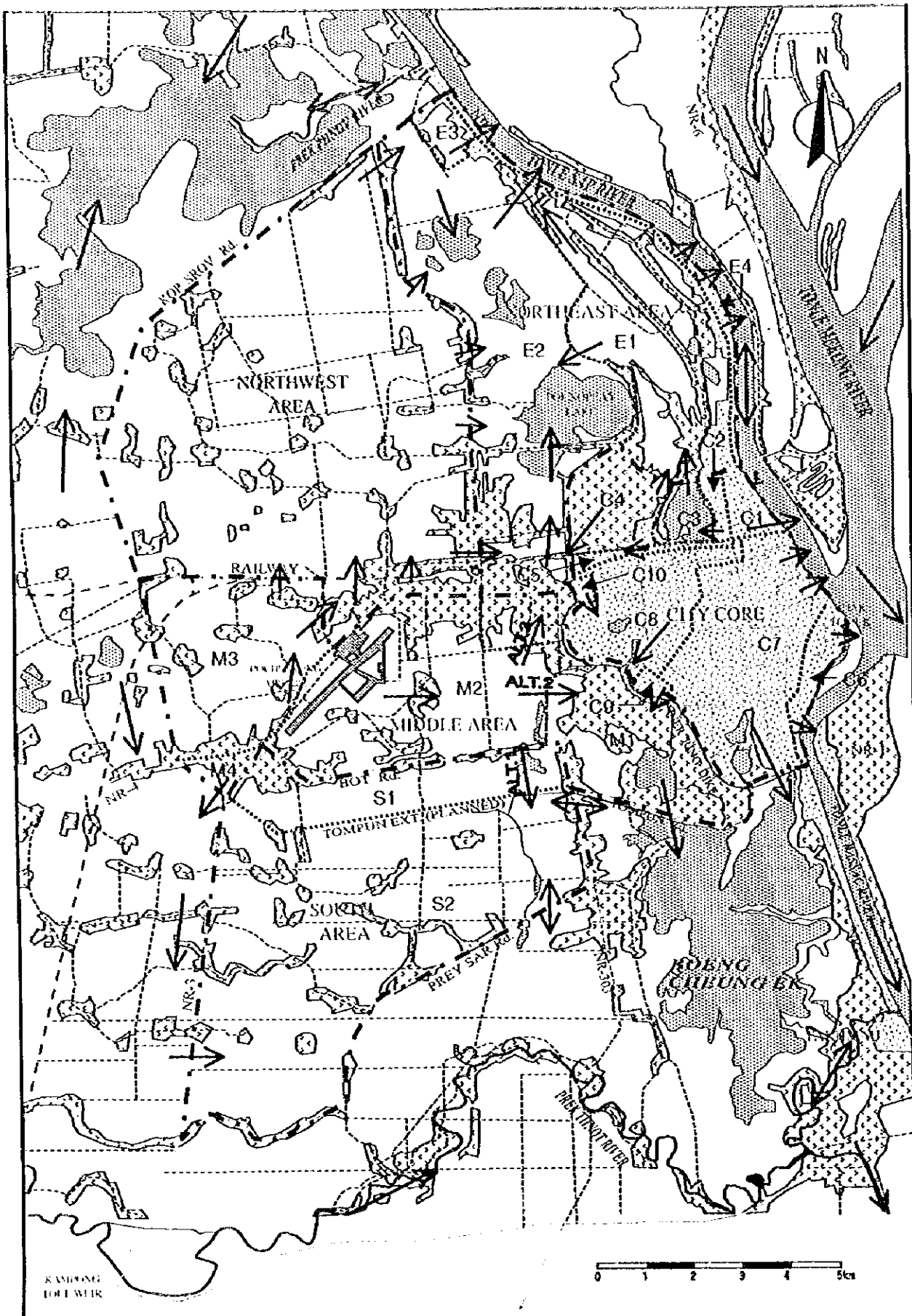
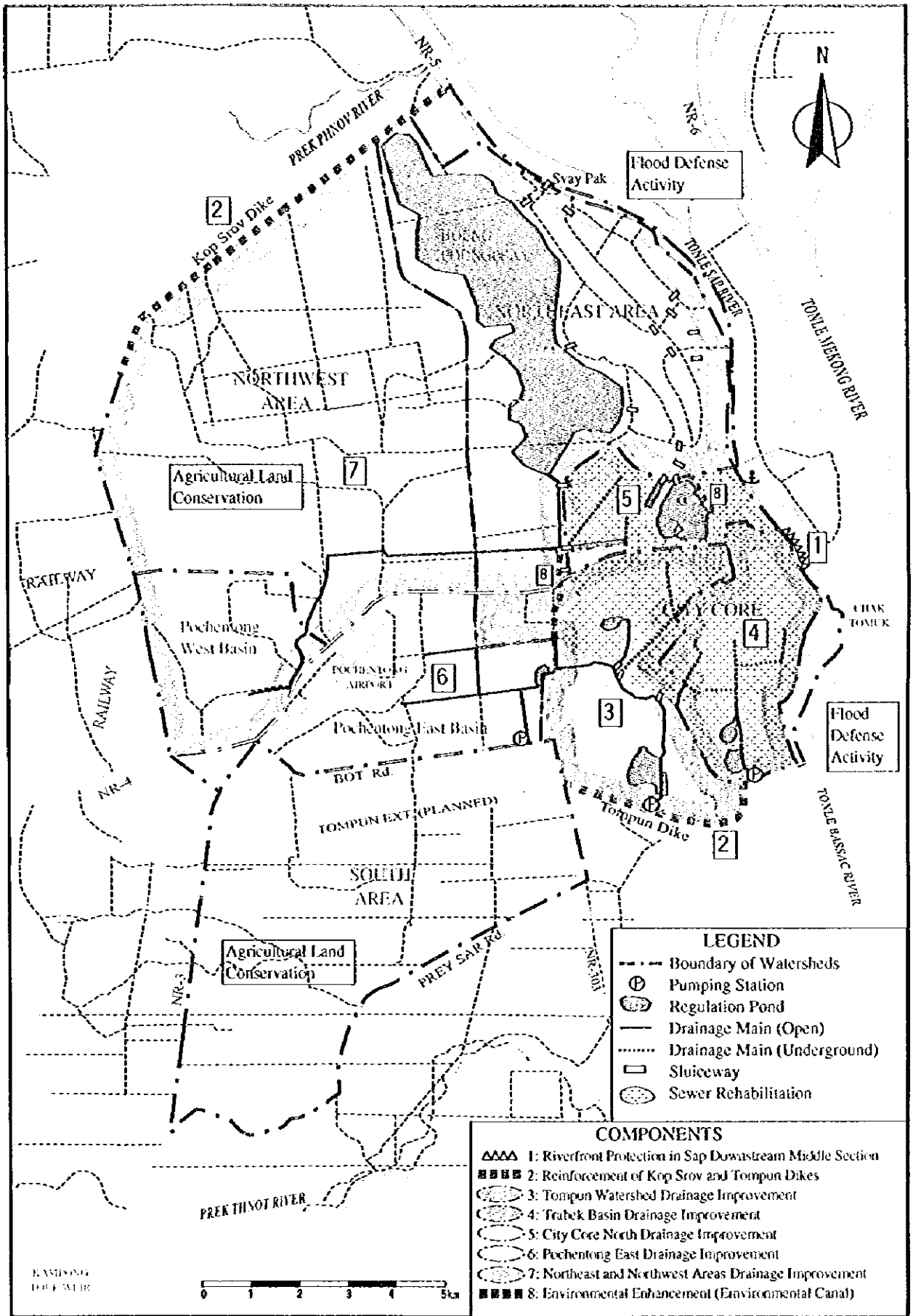
図 13-1
洪水防御ライン



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA - CTIE International Co., Ltd. - Nippon Koei Co., Ltd.	図 13-2 各排水区の排水方向



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh
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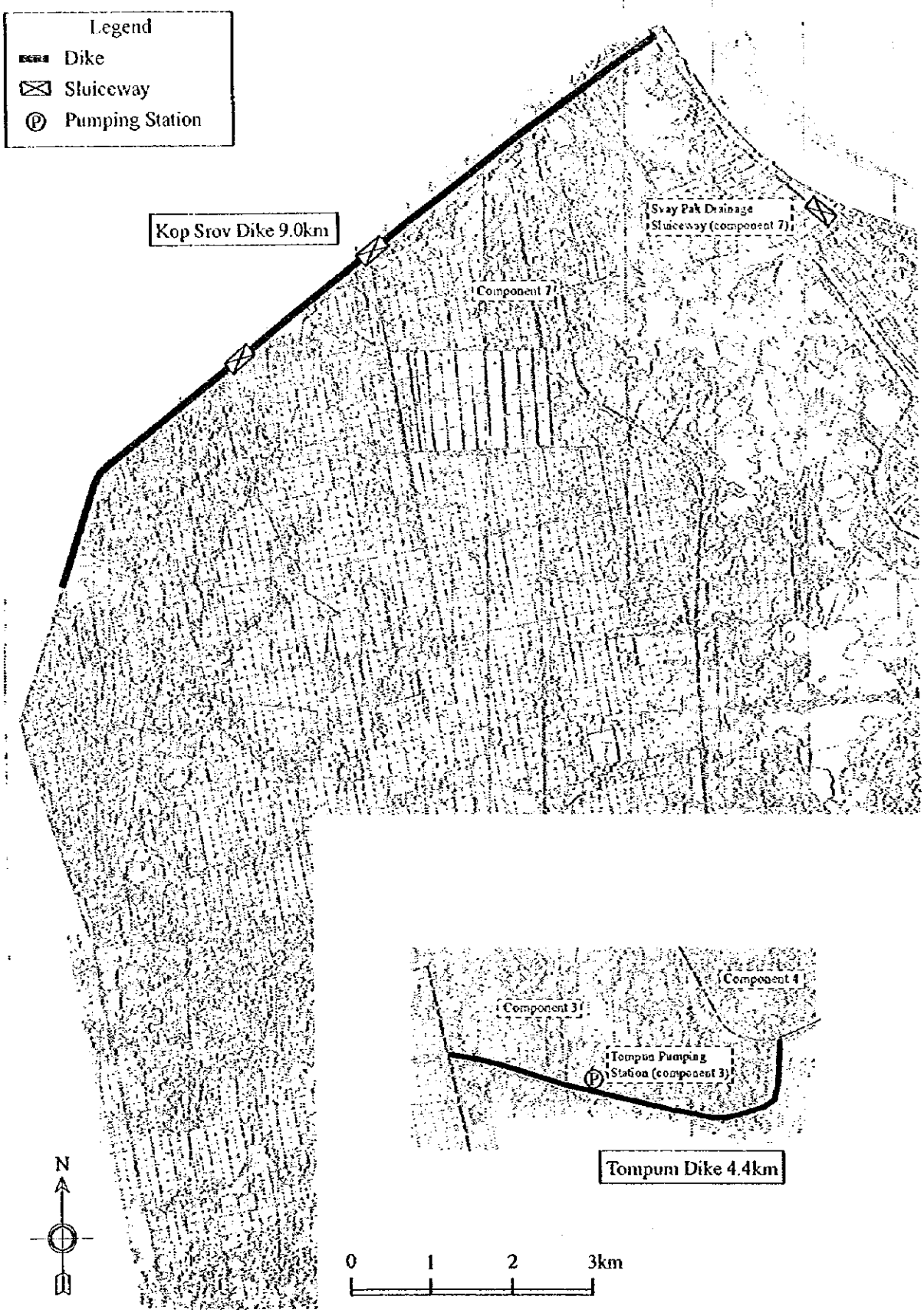
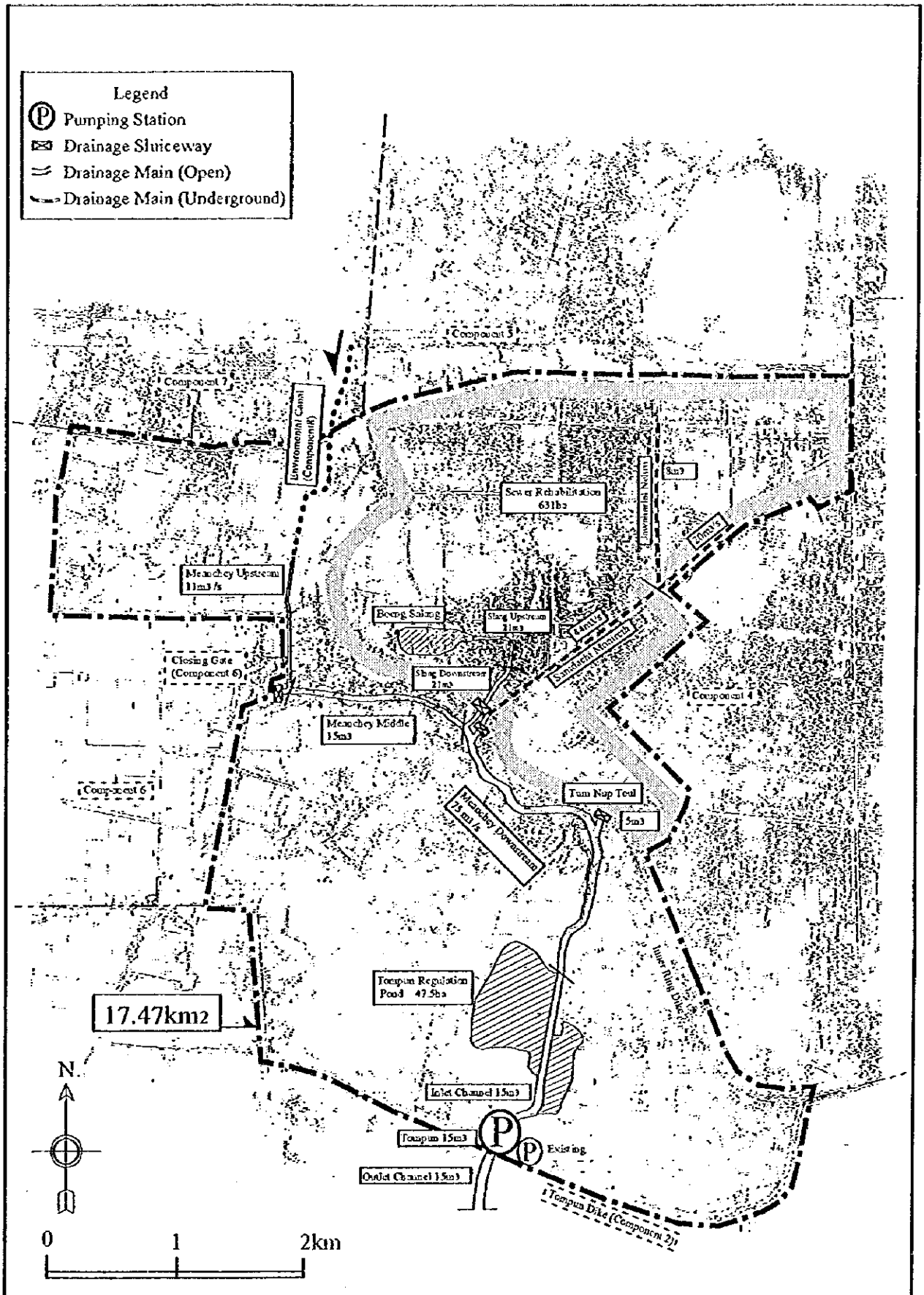
図 13-3
マスター・プラン



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA - CTIE International Co., Ltd. - Nippon Koei Co., Ltd.	図 I3-4 コンポーネント2：Kop SrovおよびTompun輪中堤補強計画施設配置図



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA - CTIE International Co., Ltd. - Nippon Koei Co.,Ltd.	図 I3-5 コンポーネント3：Tompun流域排水改善計画 施設配置図

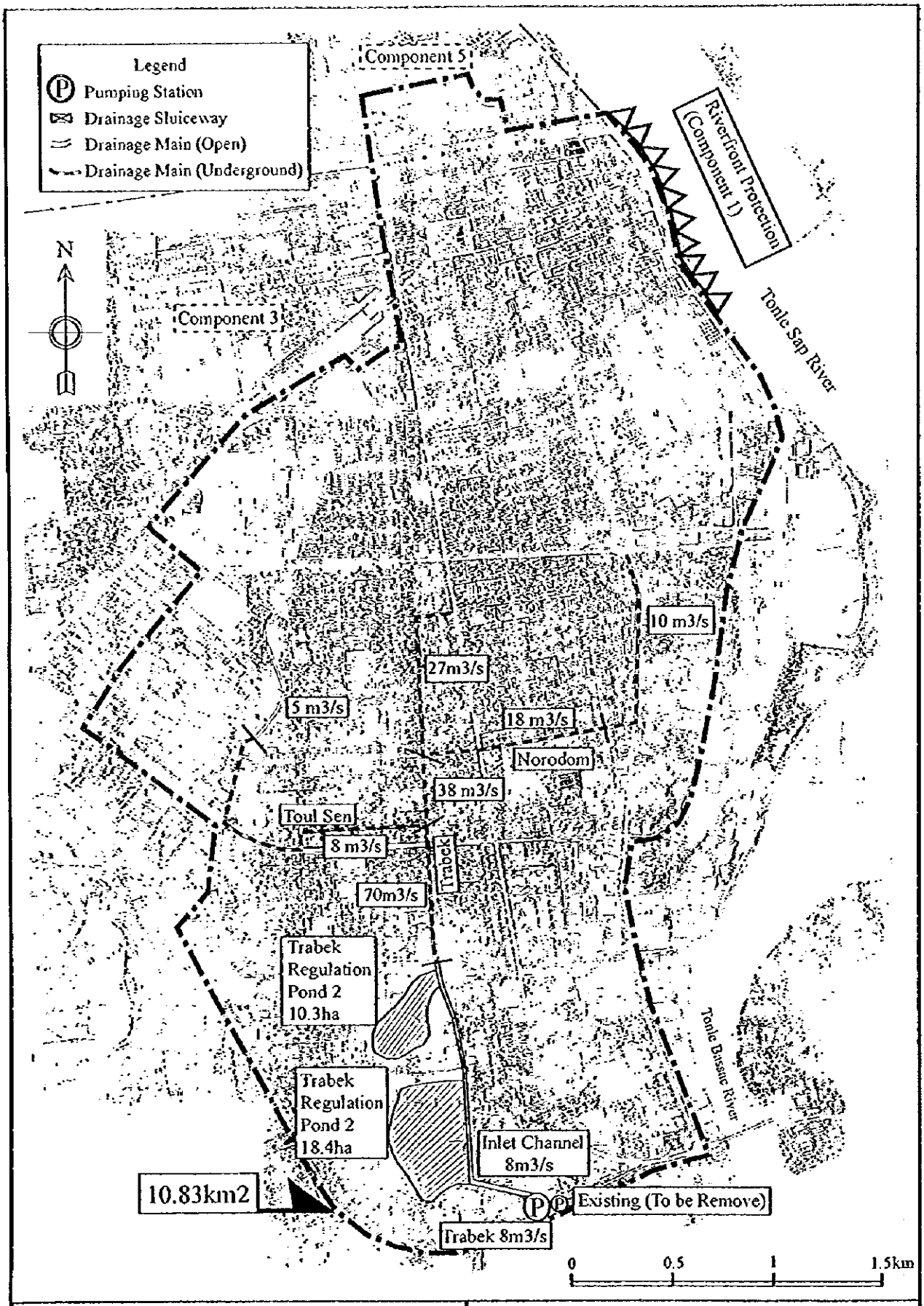


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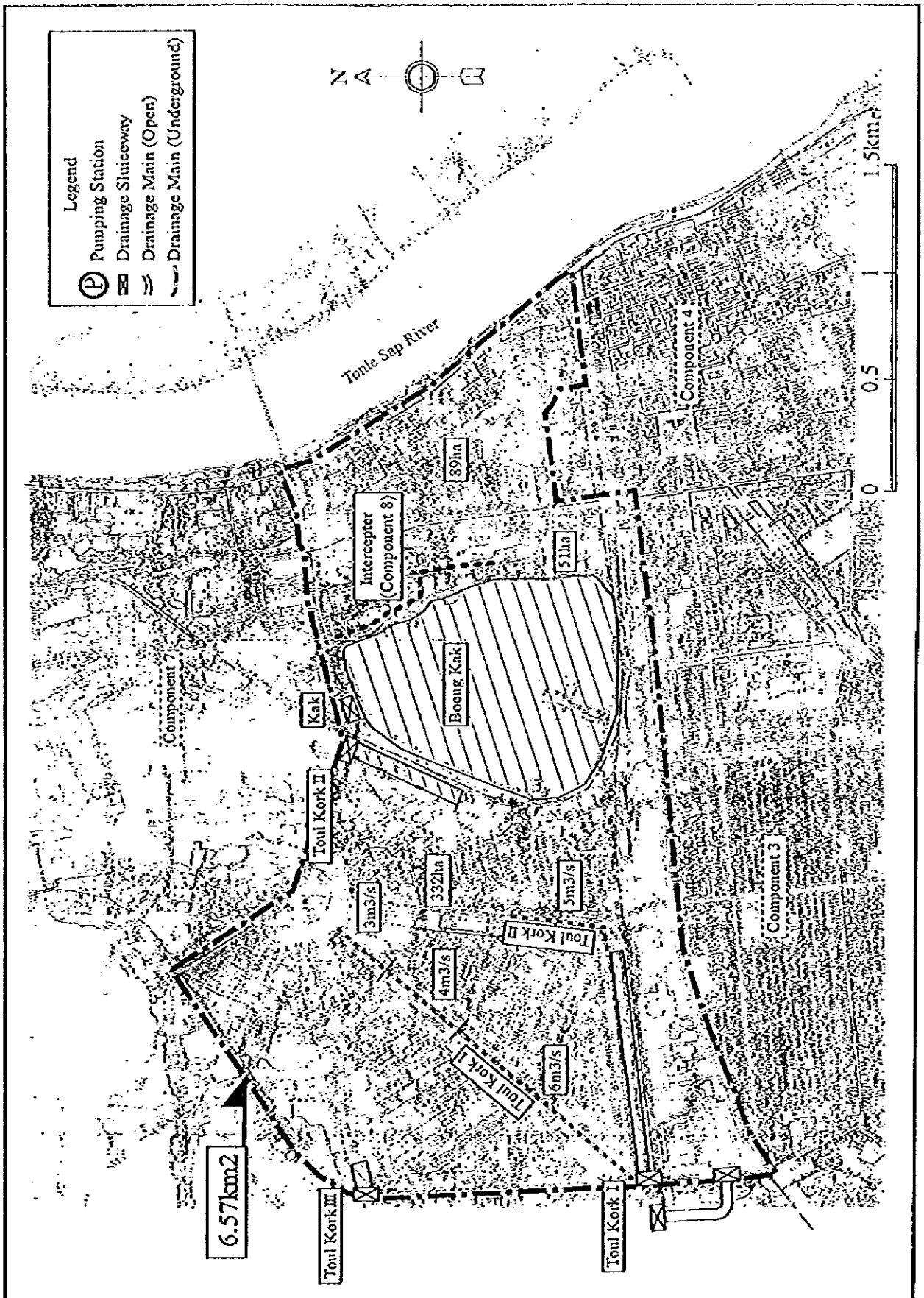
図 I3-6
コンポーネント4：Trabek流域排水改善計画
施設配置図



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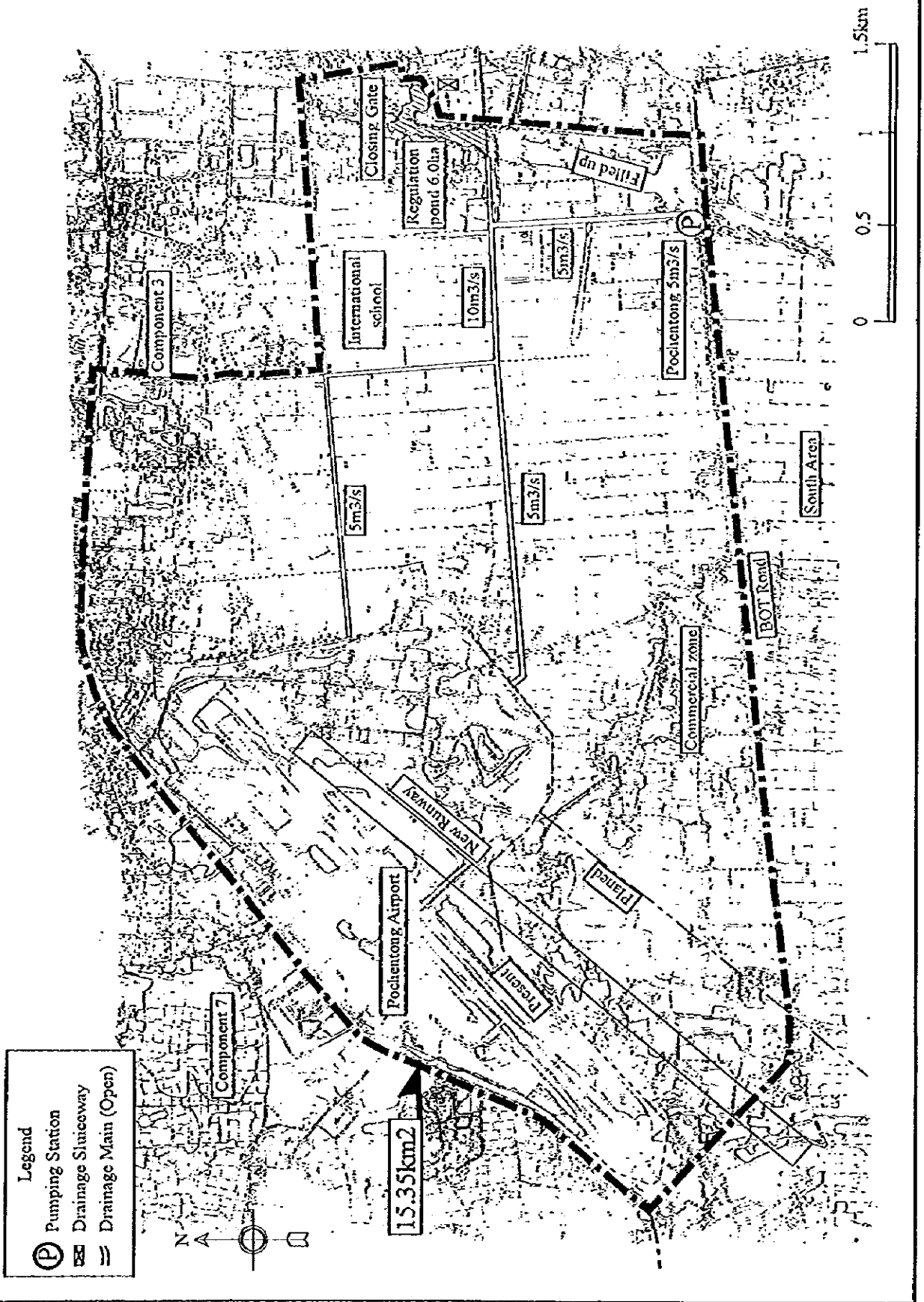

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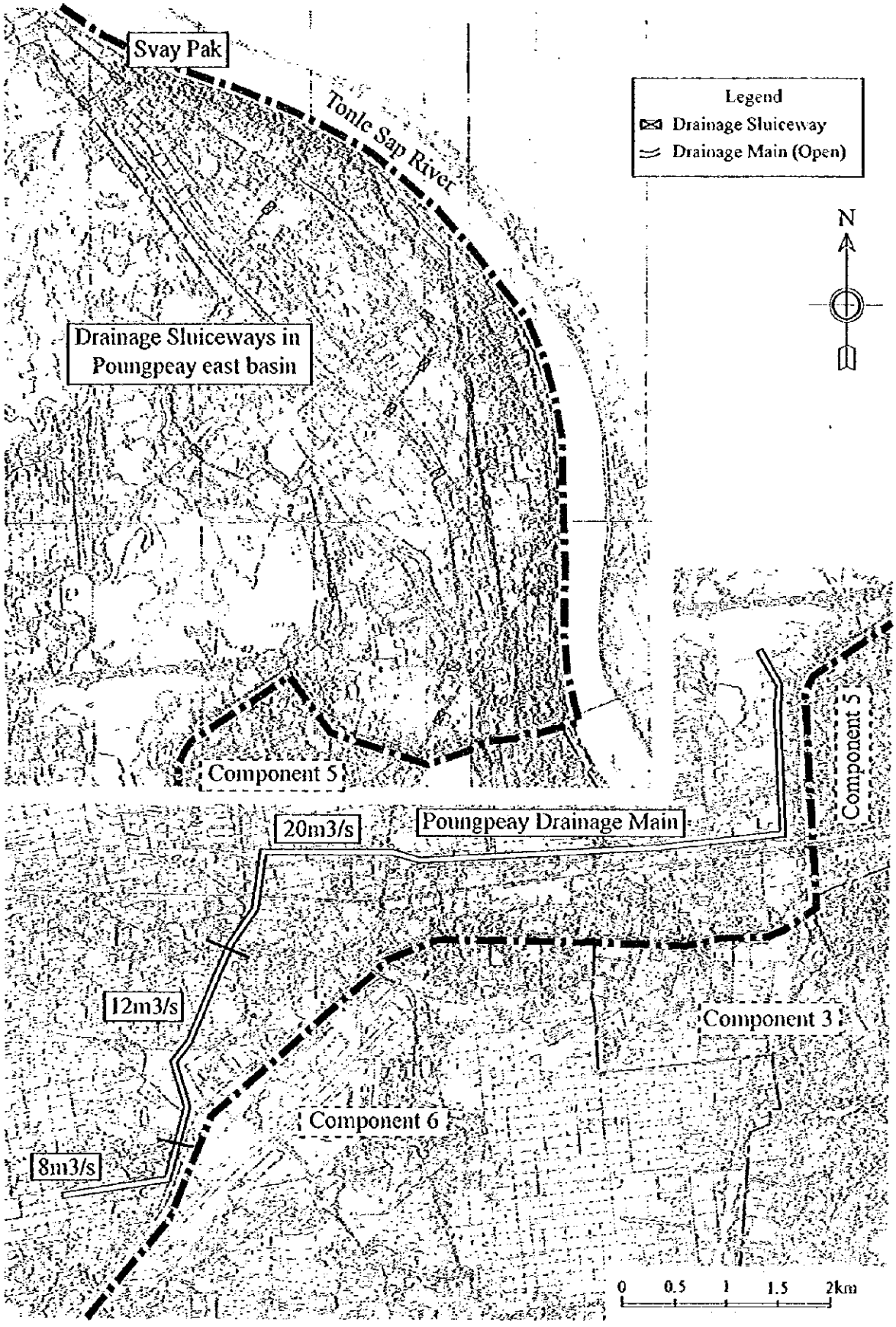
図 13-8
コンポーネント6：Pochentong東部流域排水改善計画



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA - CTIE International Co., Ltd. - Nippon Koei Co., Ltd.	図 I3-9 コンポーネント7：北東・北西流域排水改善計画 施設配置図

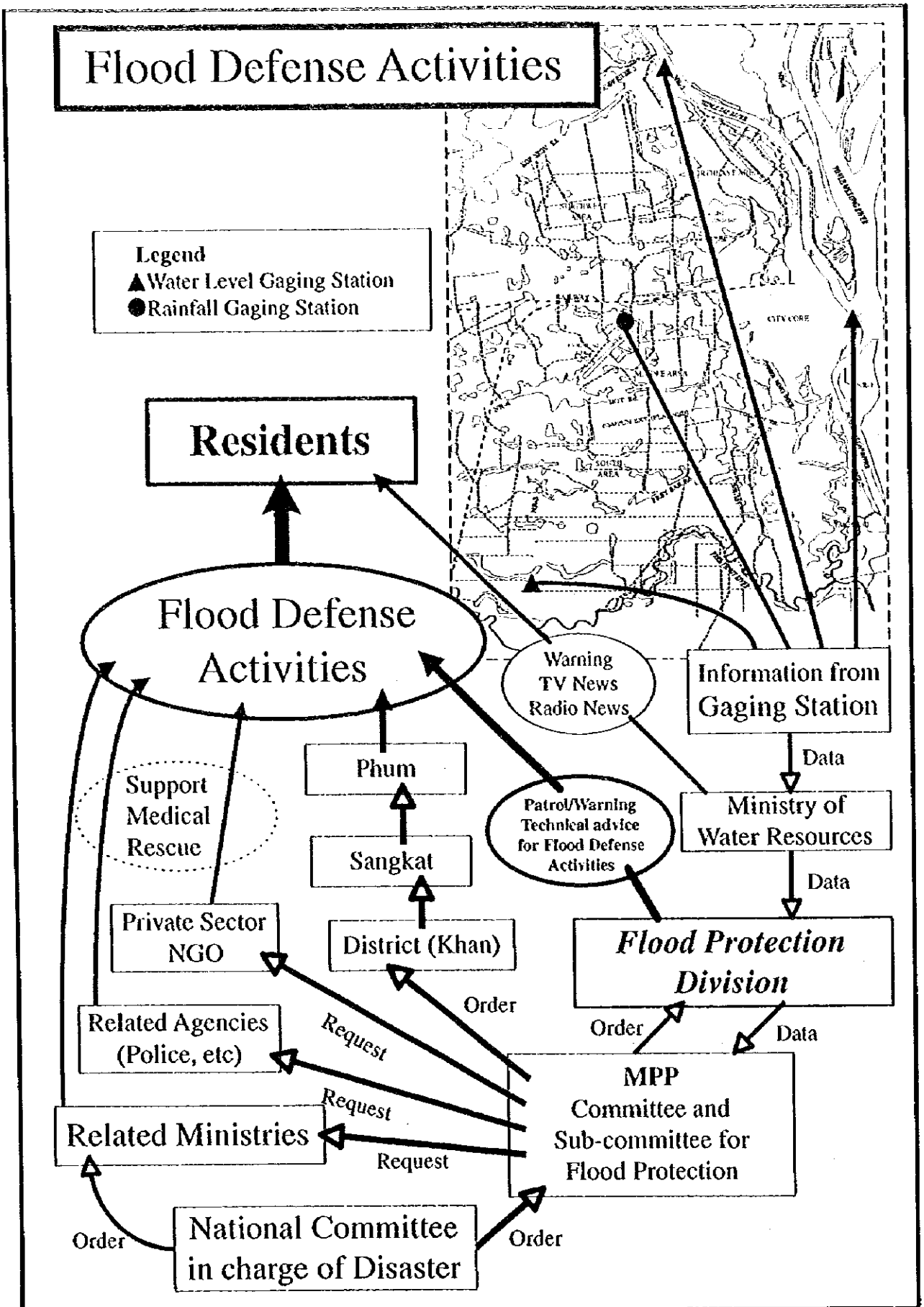


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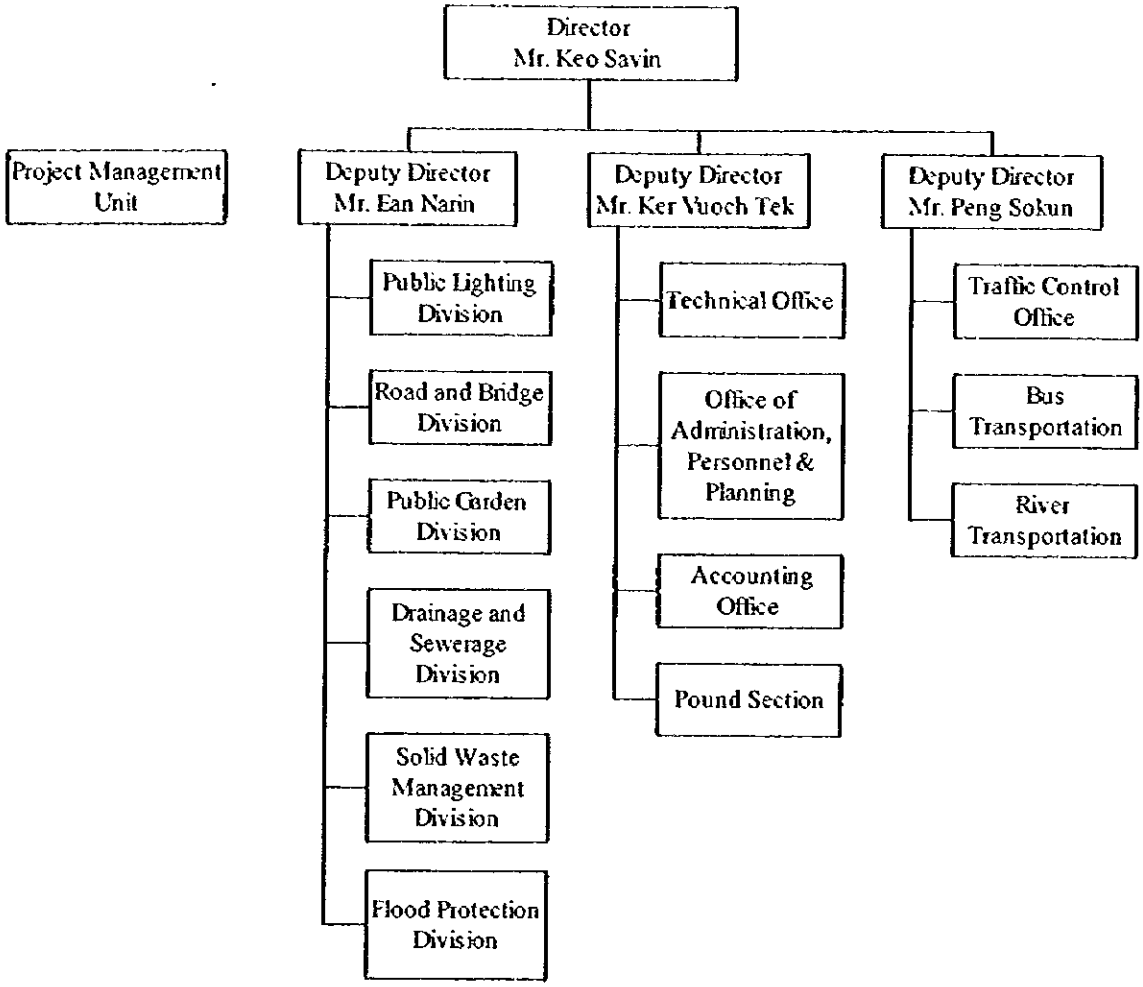
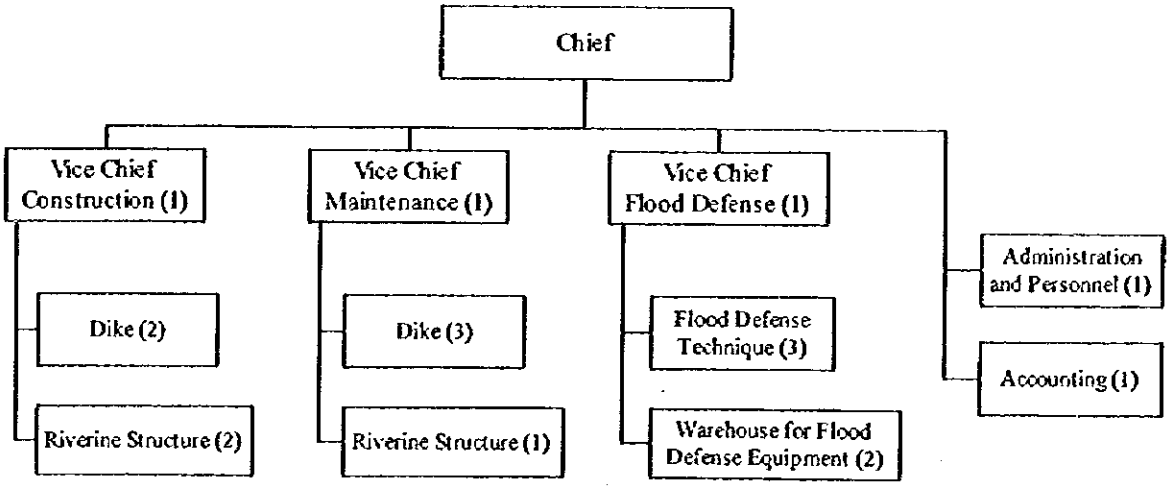
図 13-10
水防活動イメージ図

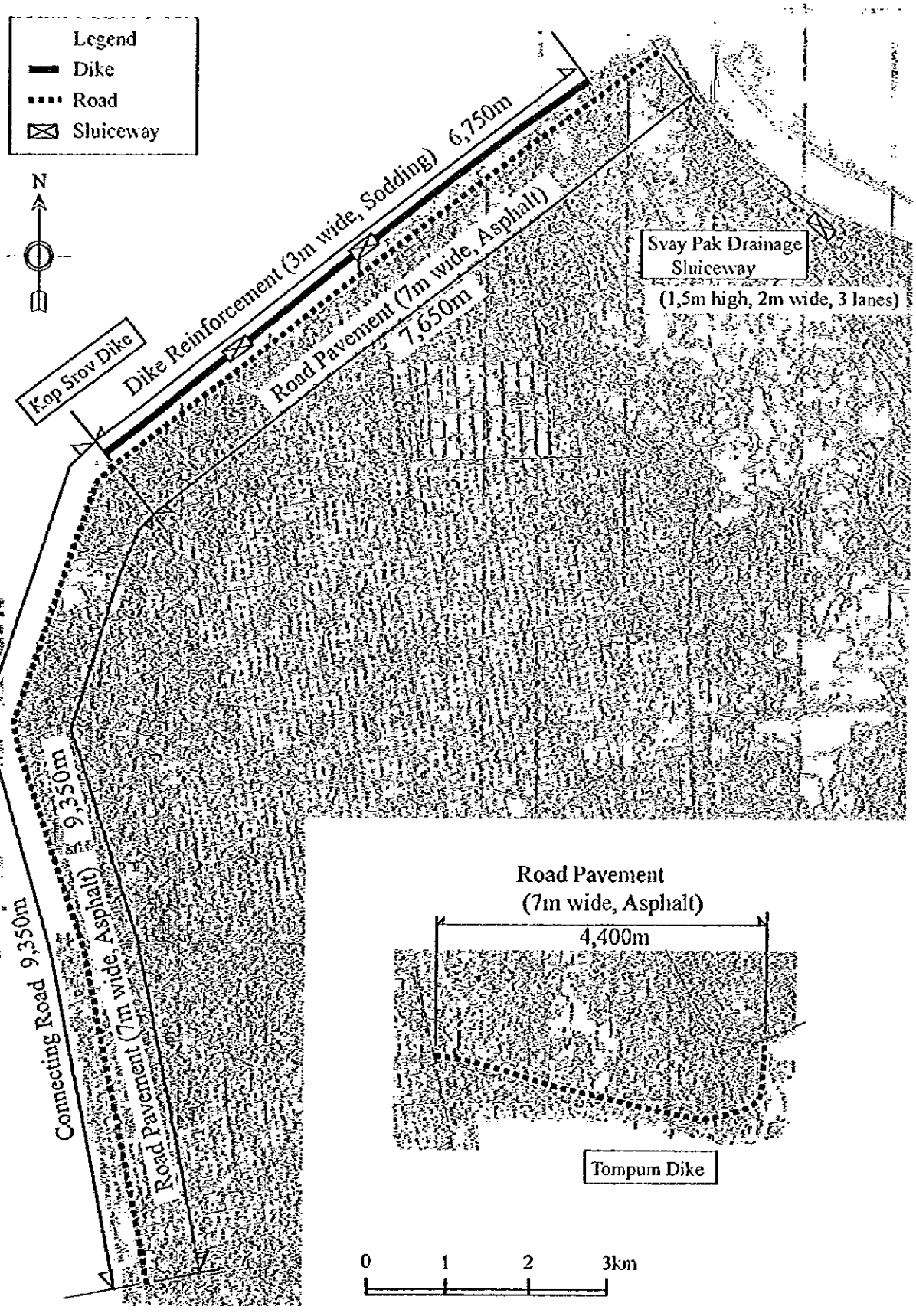
Organizational Structure of Department of Public Works and Transport



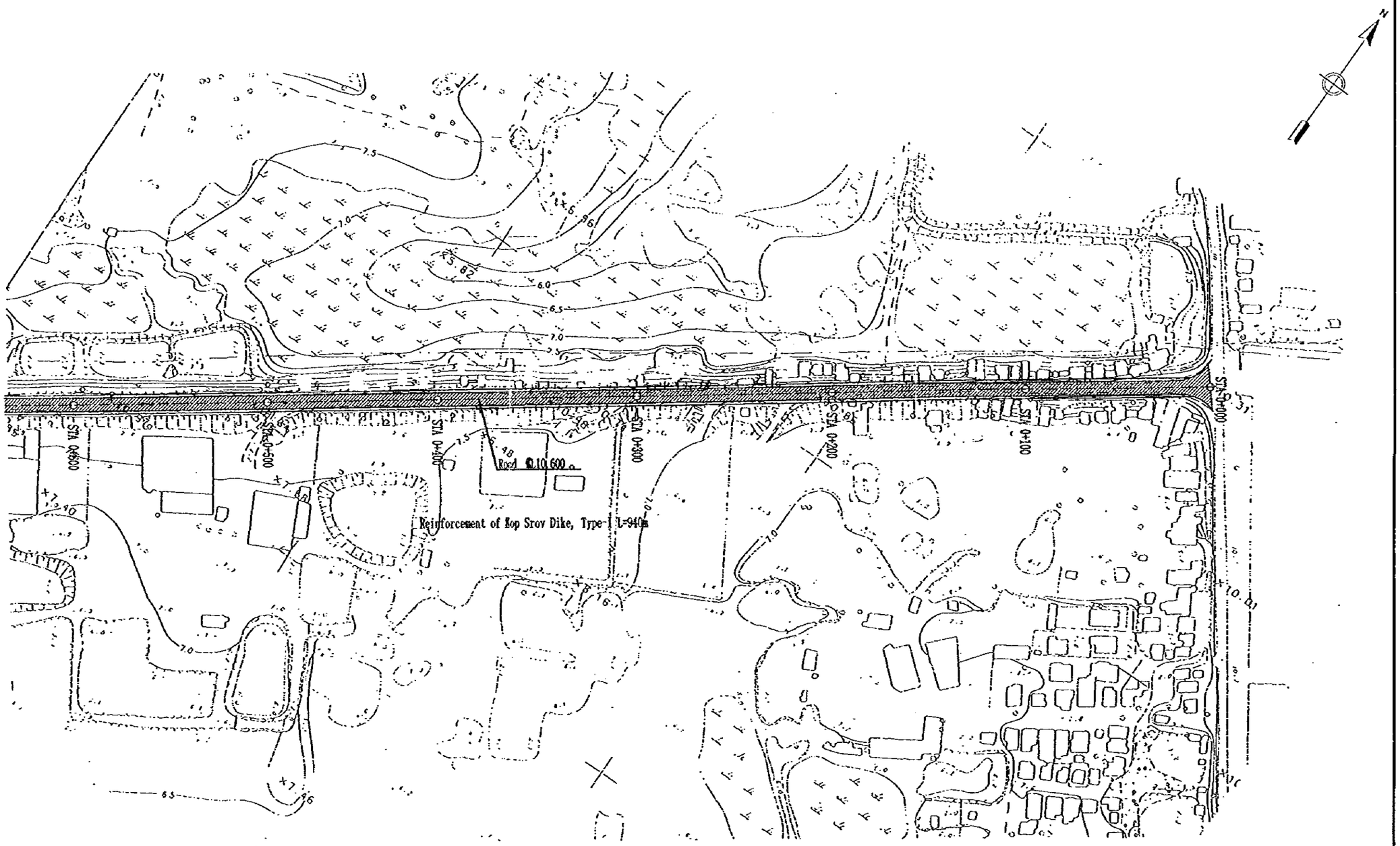
Organizational Structure of Flood Protection Division



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd. -Nippon Koei Co., Ltd.	図 13-11 プノンペン市公共事業運輸局および洪水防御部 提案組織図案



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA - CTIE International Co., Ltd. - Nippon Koei Co., Ltd.	図 II3-1 Kop SrovおよびTompun輪中堤補強計画一般平面図



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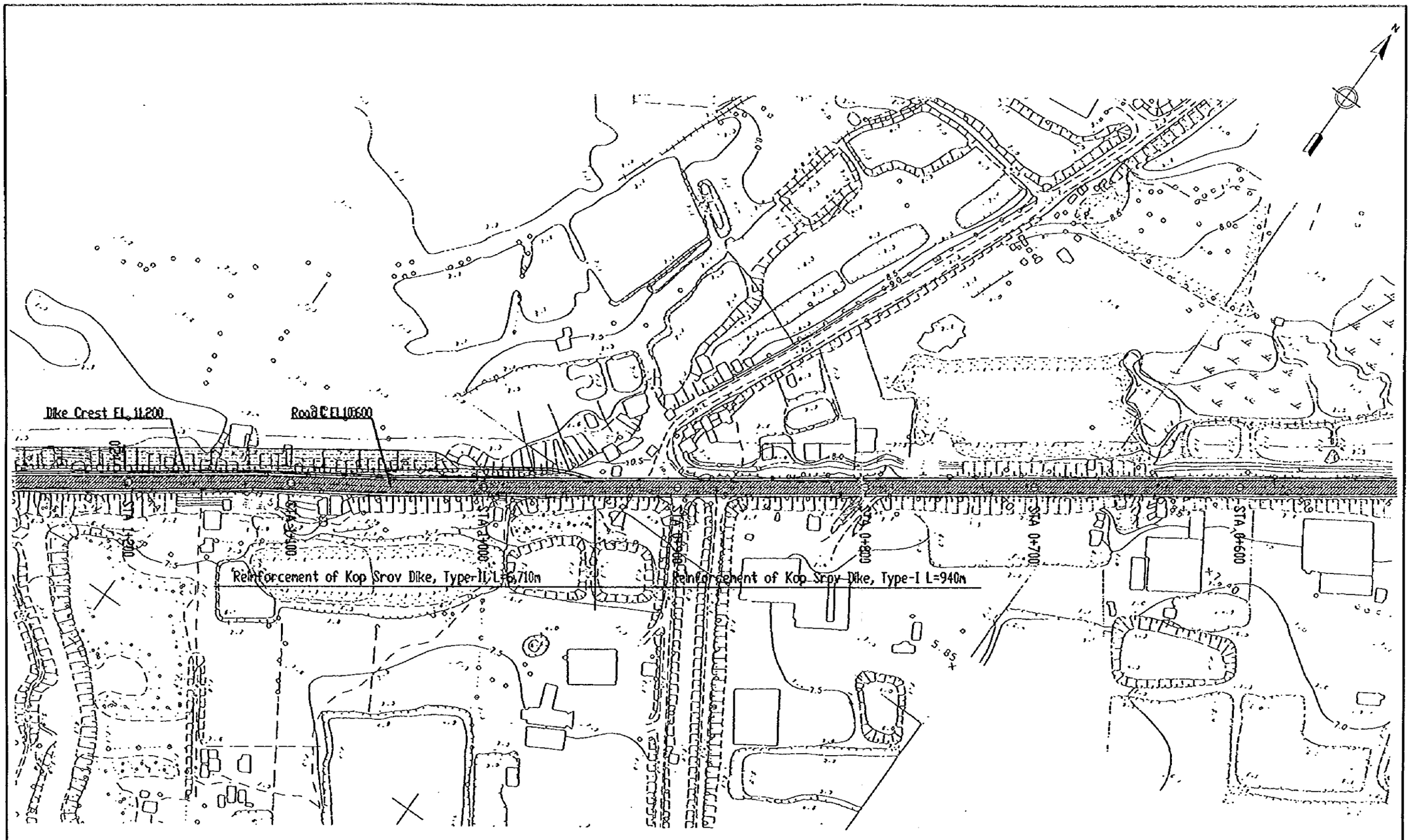

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図 II3-2
Kop Srov輪中堤補強計画平面図 (2/13)

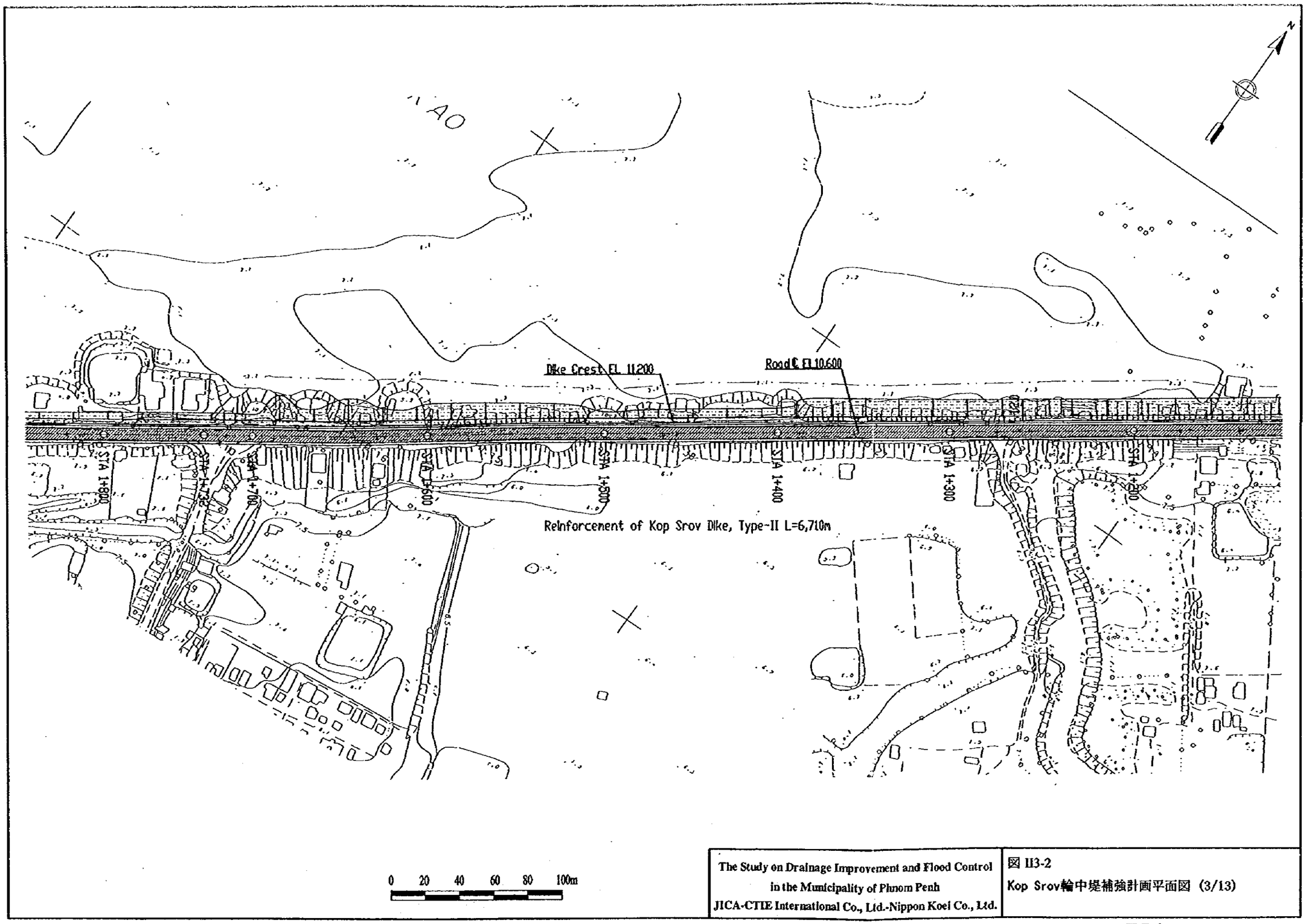

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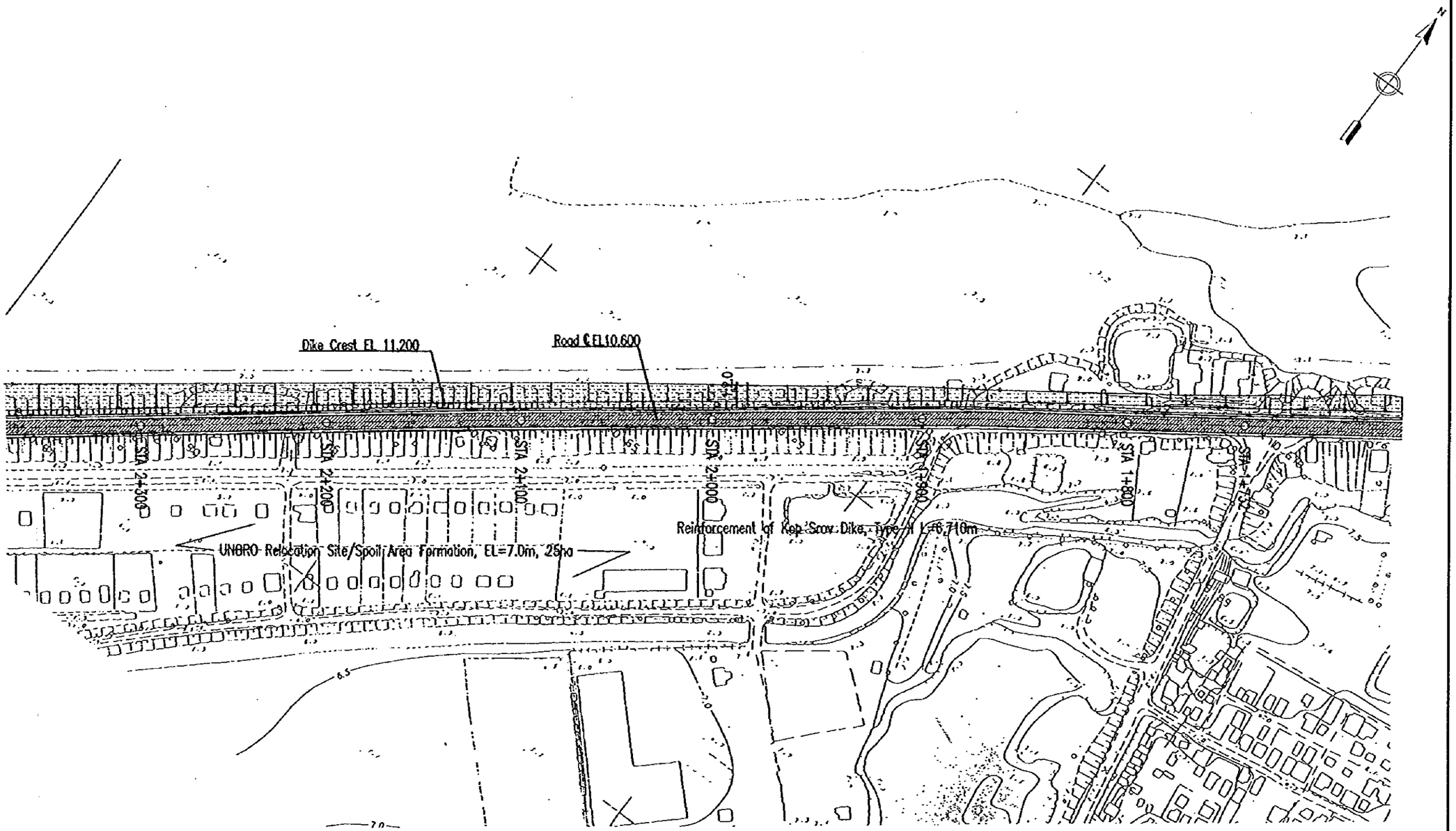
図 II3-2
Kop Srov輪中堤補強計画平面図 (3/13)



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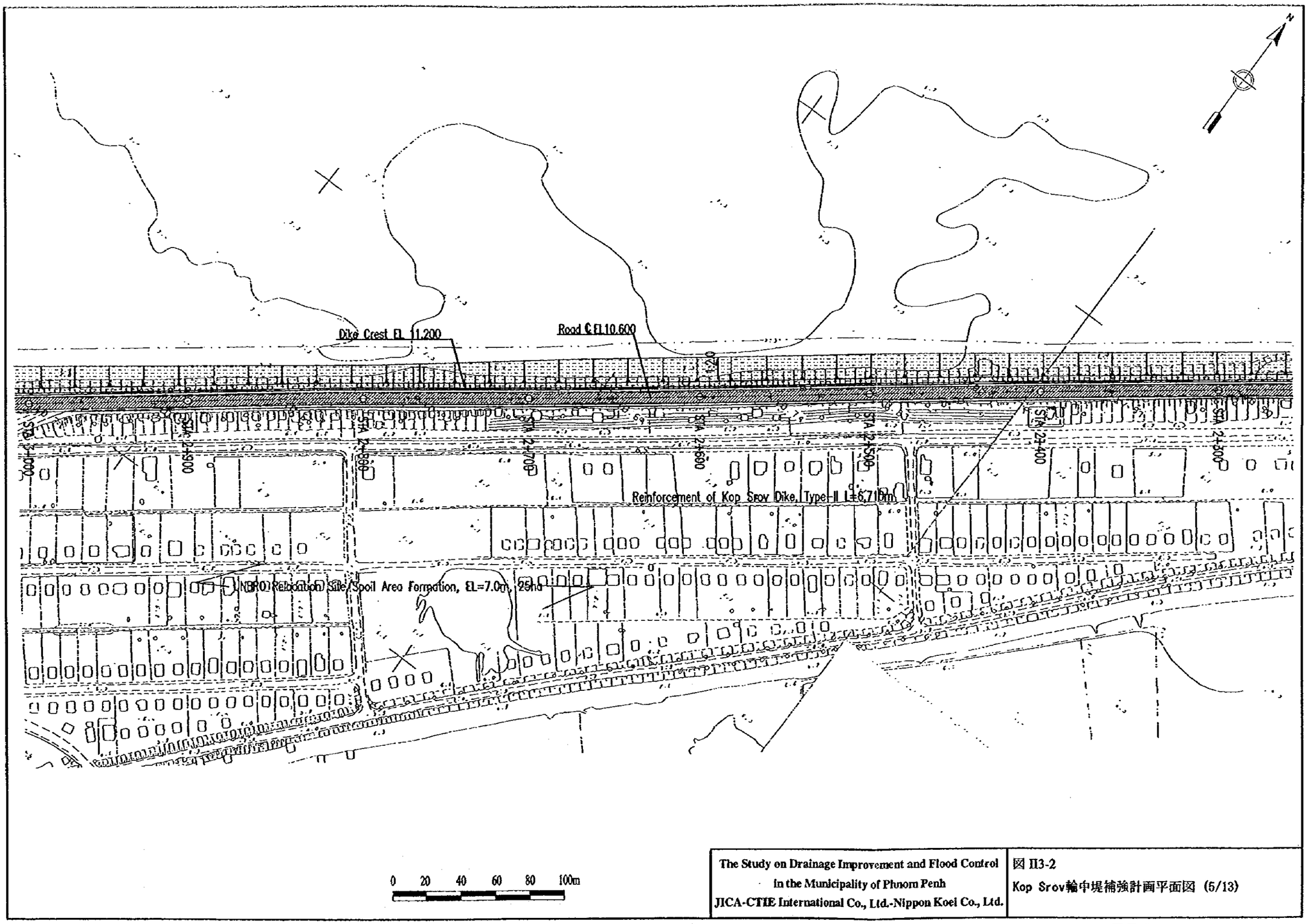
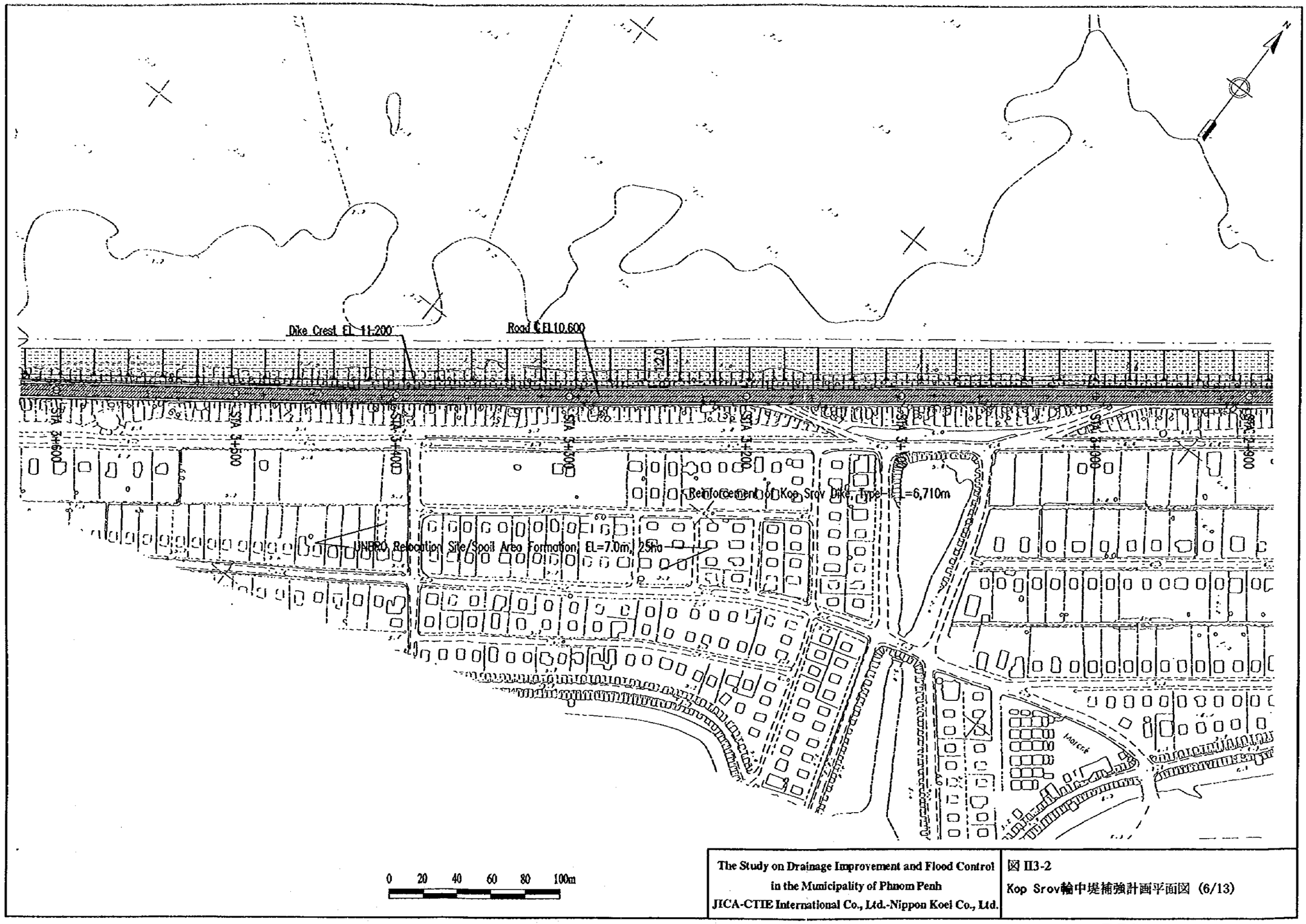
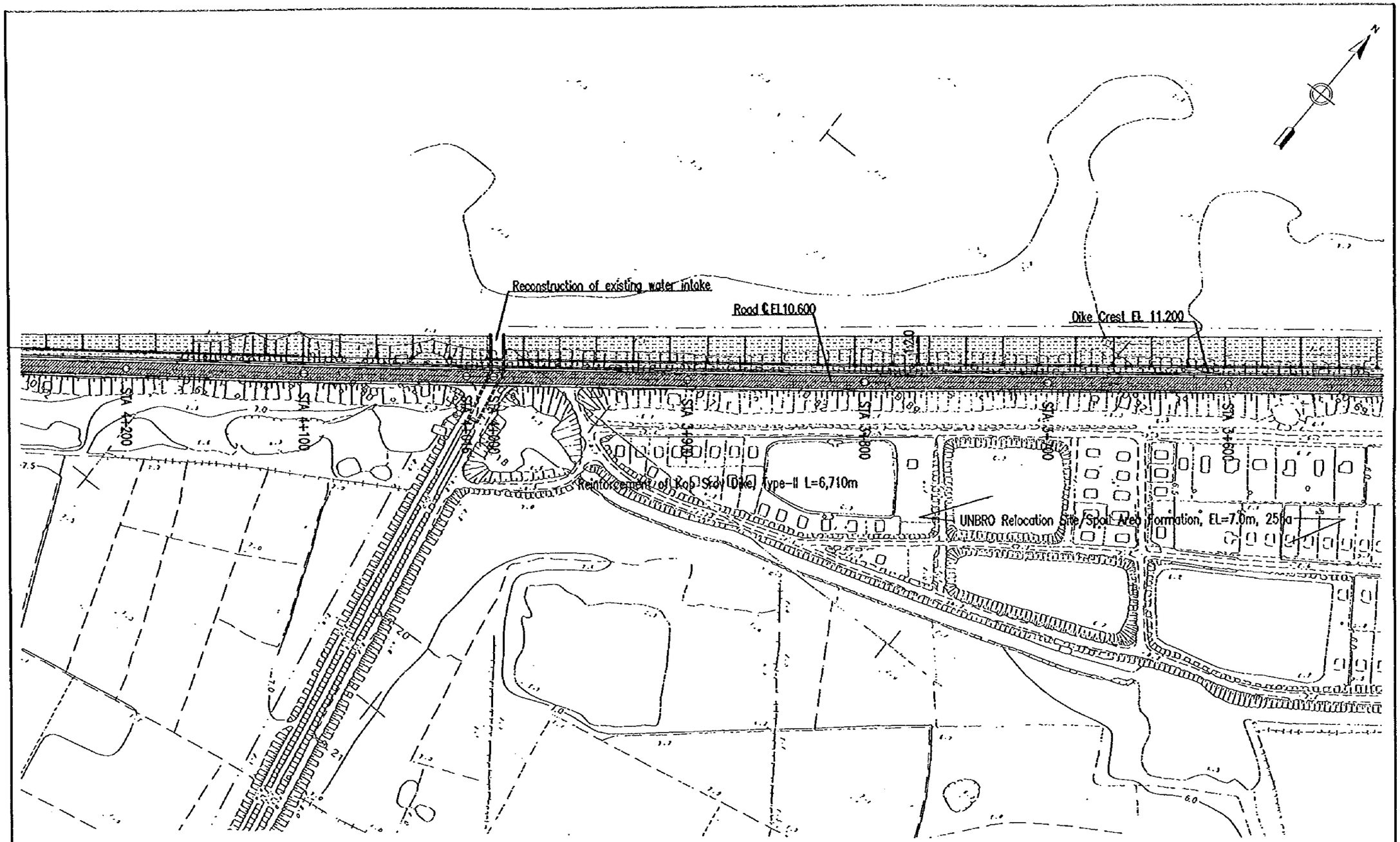


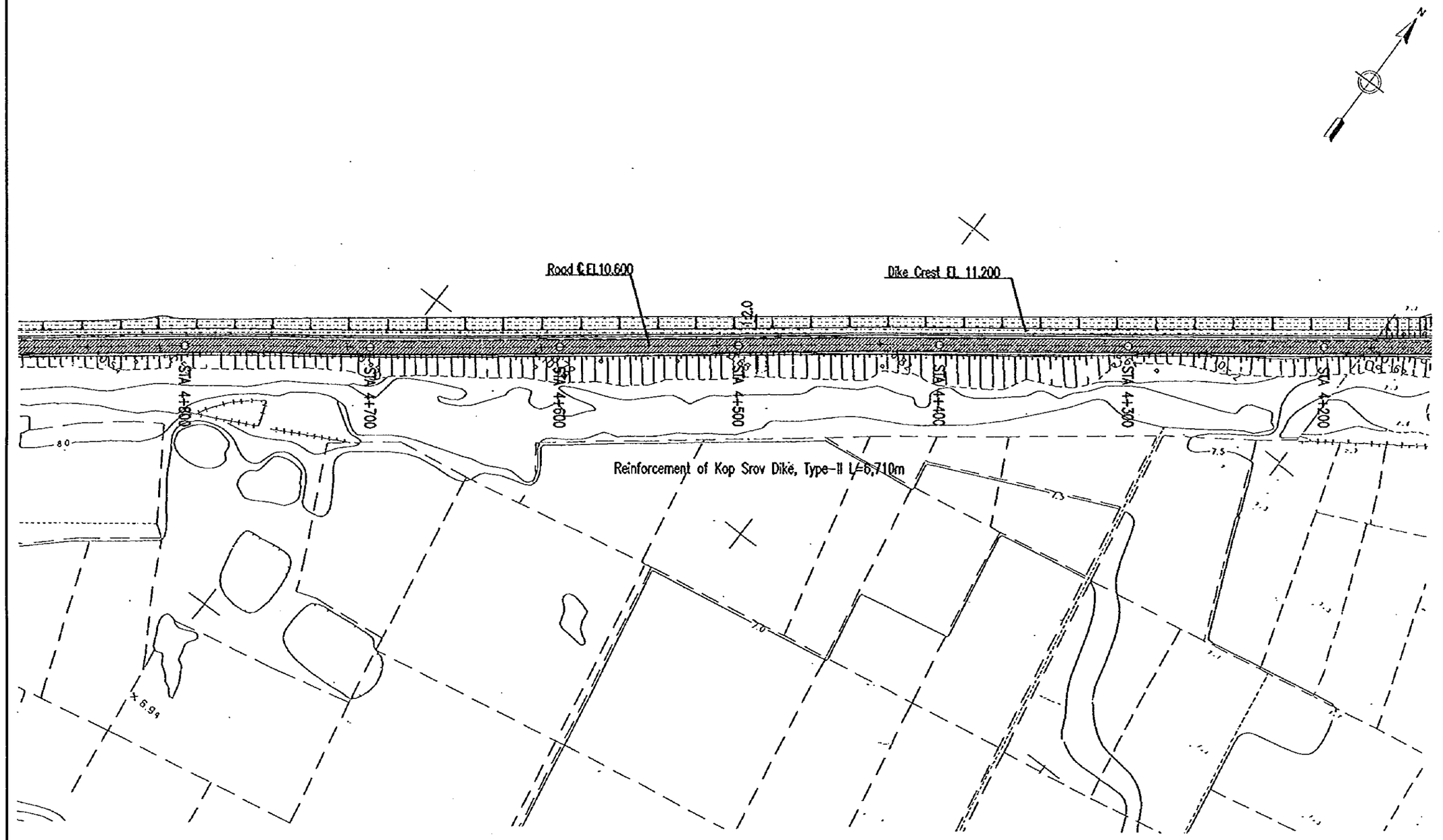
The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 II3-2 Kop Srov輪中堤補強計画平面図 (5/13)



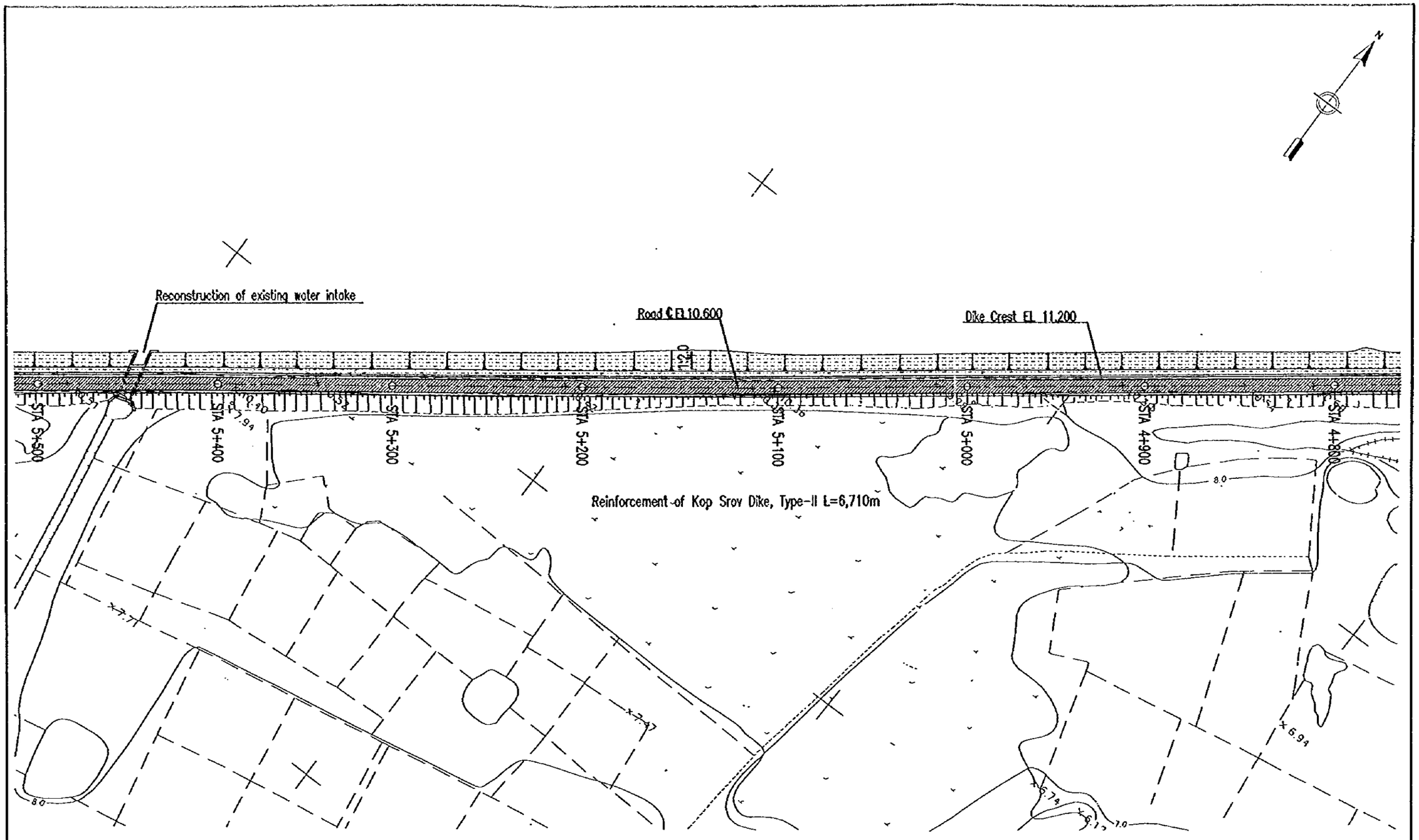
The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 II3-2 Kop Srov輪中堤補強計画平面図 (6/13)



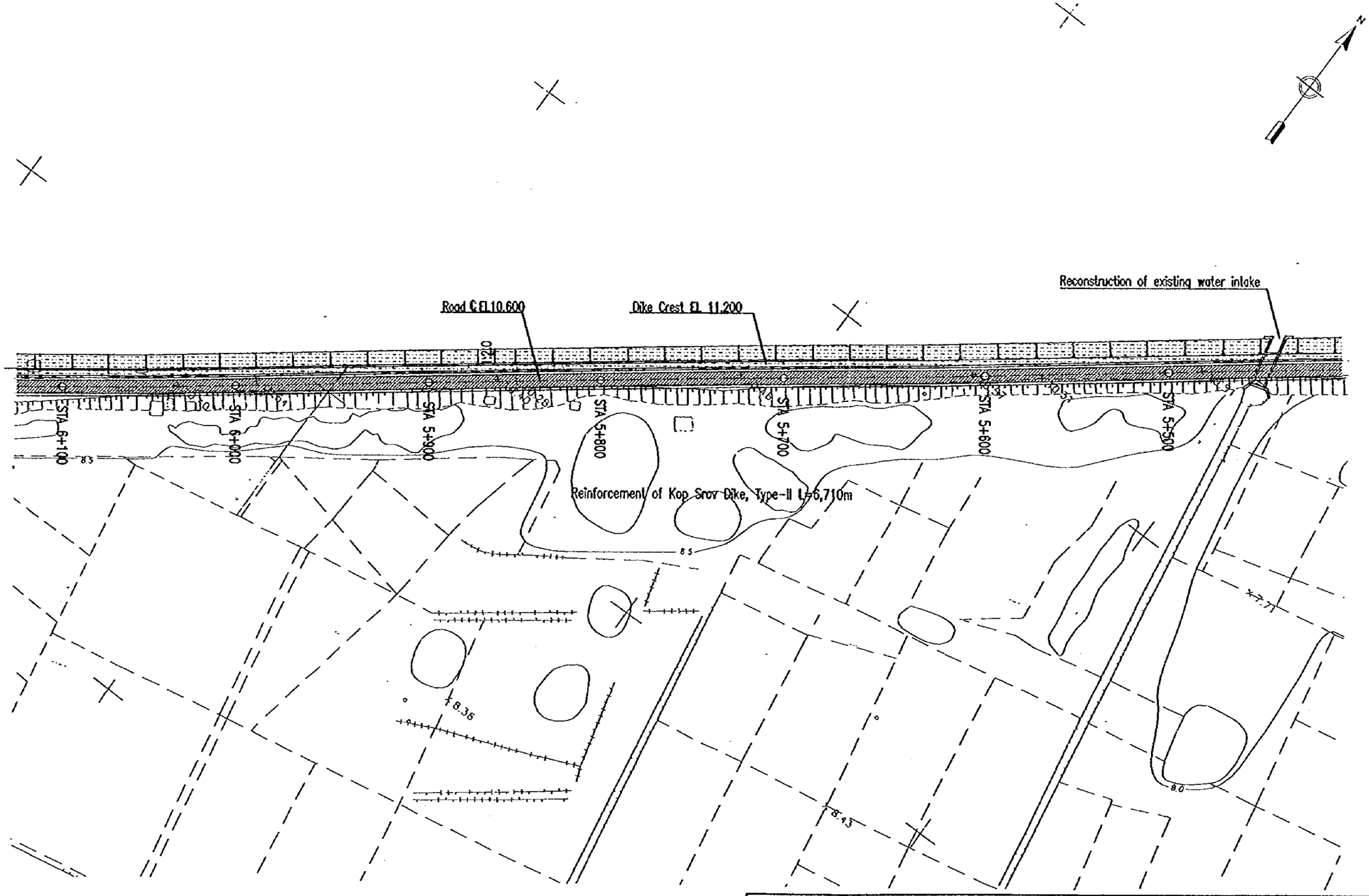
The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 II3-2 Kop Srov輪中堤補強計画平面図 (7/13)



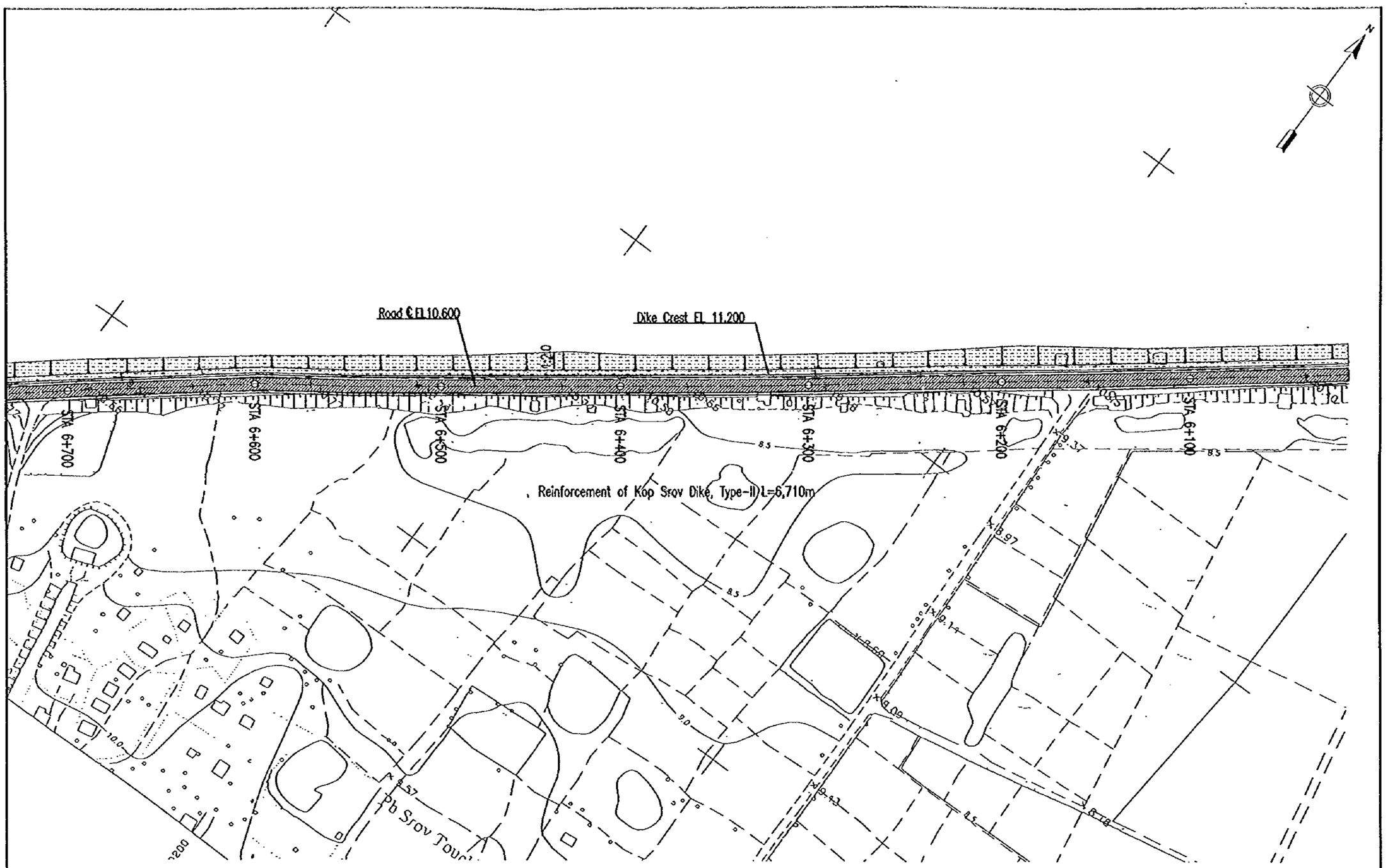
The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 II3-2 Kop Srov輪中堤補強計画平面図 (8/13)



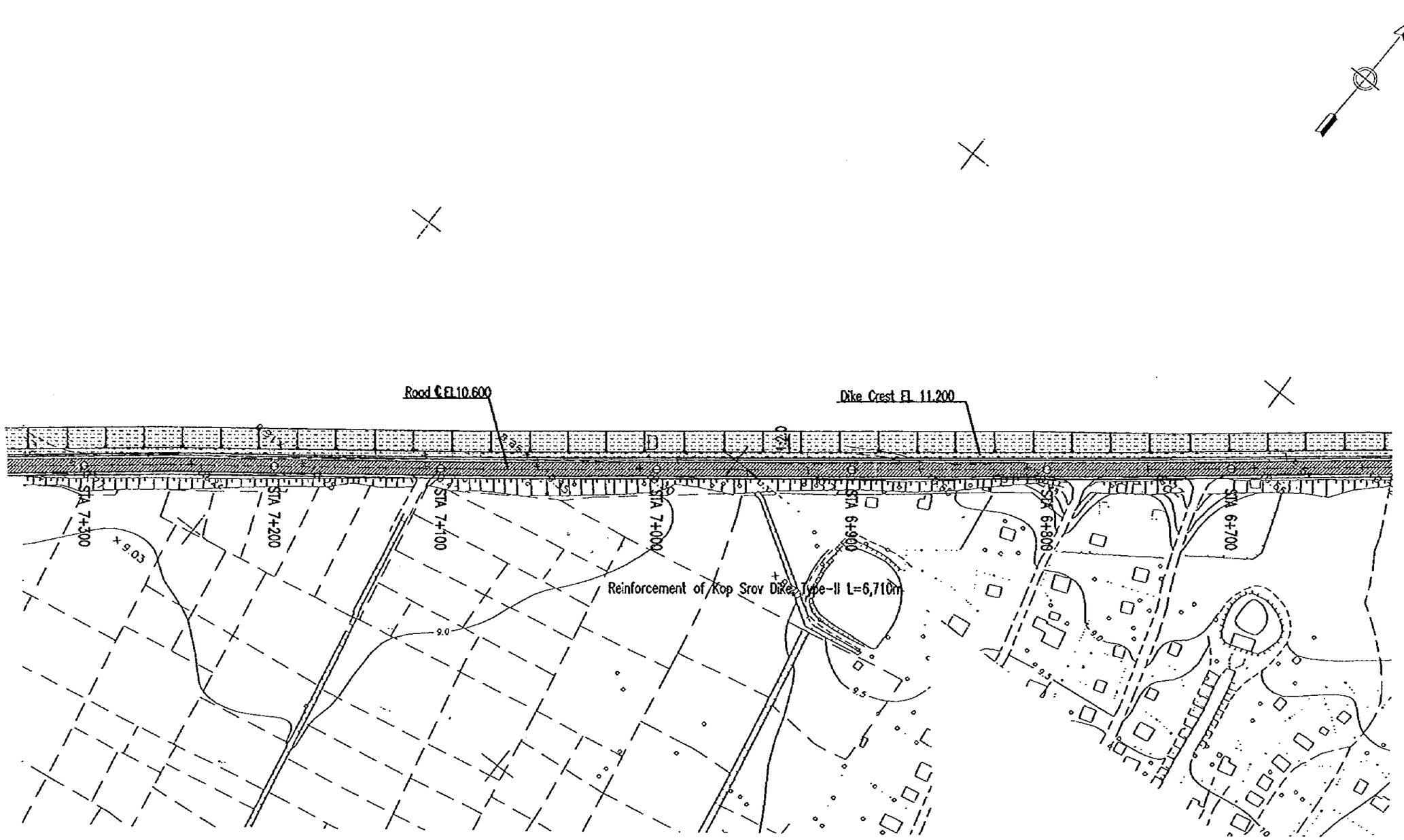
The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 II3-2 Kop Srov輪中堤補強計画平面図 (9/13)



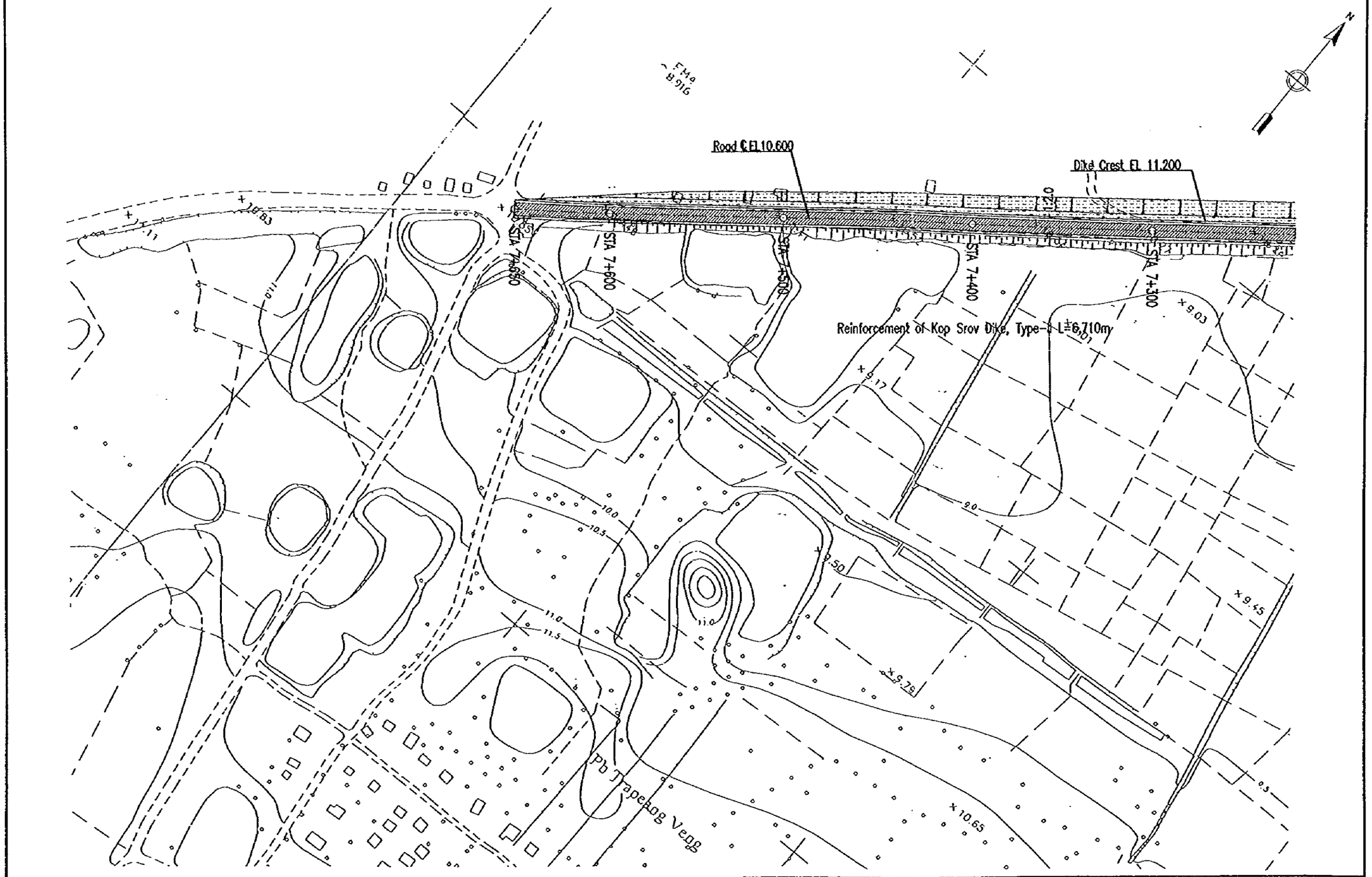
The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 II3-2 Kop Srov輪中堤補強計画平面図 (10/13)



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 II3-2 Kop Srov輪中堤補強計画平面図 (11/13)



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 II3-2 Kop Srov輪中堤補強計画平面図 (12/13)



The Study on Drainage Improvement and Flood Control in the Municipality of Phnom Penh JICA-CTIE International Co., Ltd.-Nippon Koei Co., Ltd.	図 II3-2 Kop Srov輪中堤補強計画平面図 (13/13)