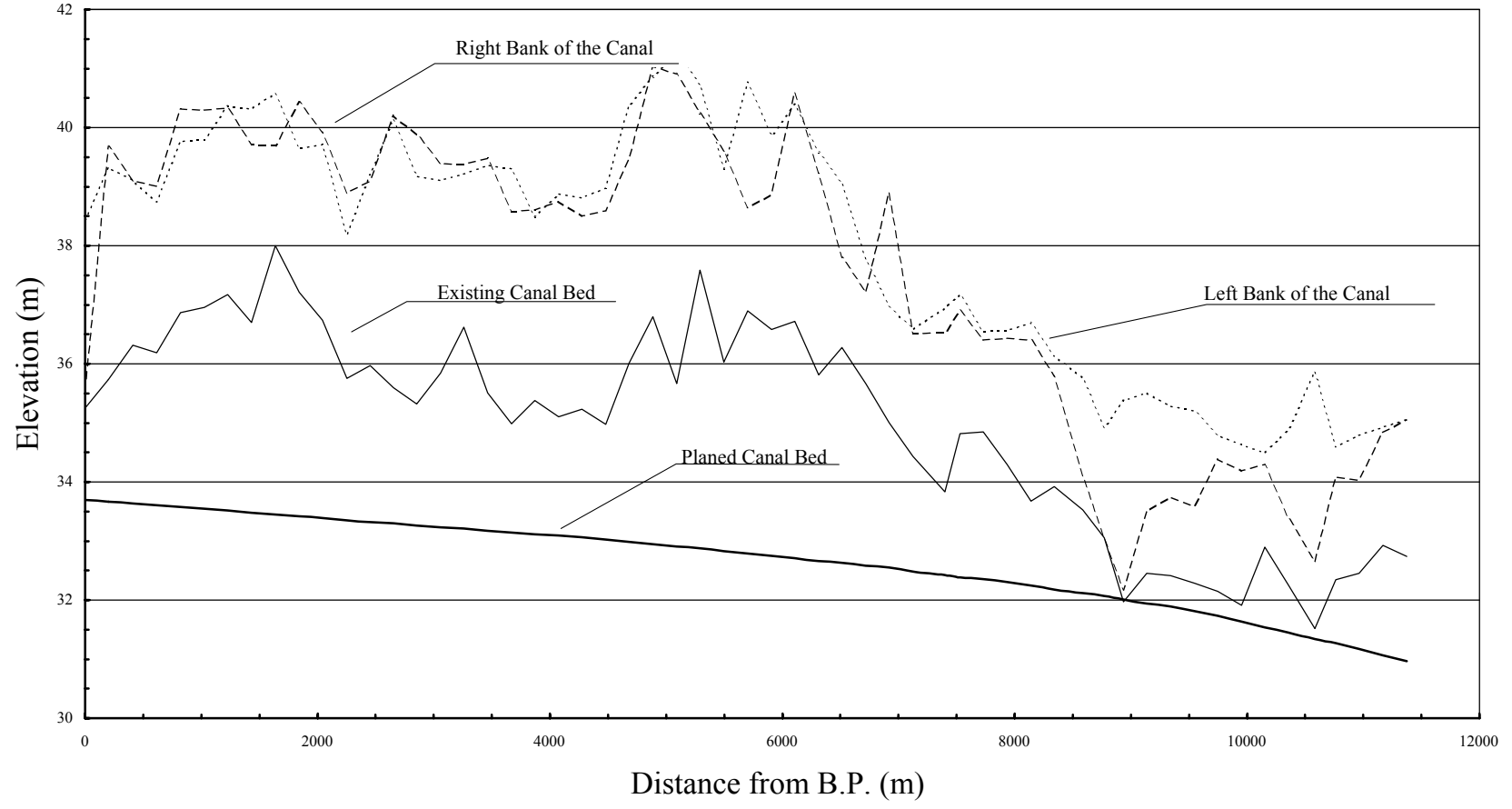
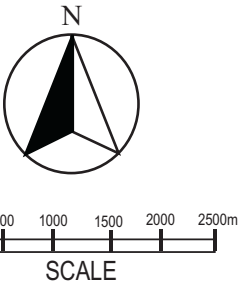
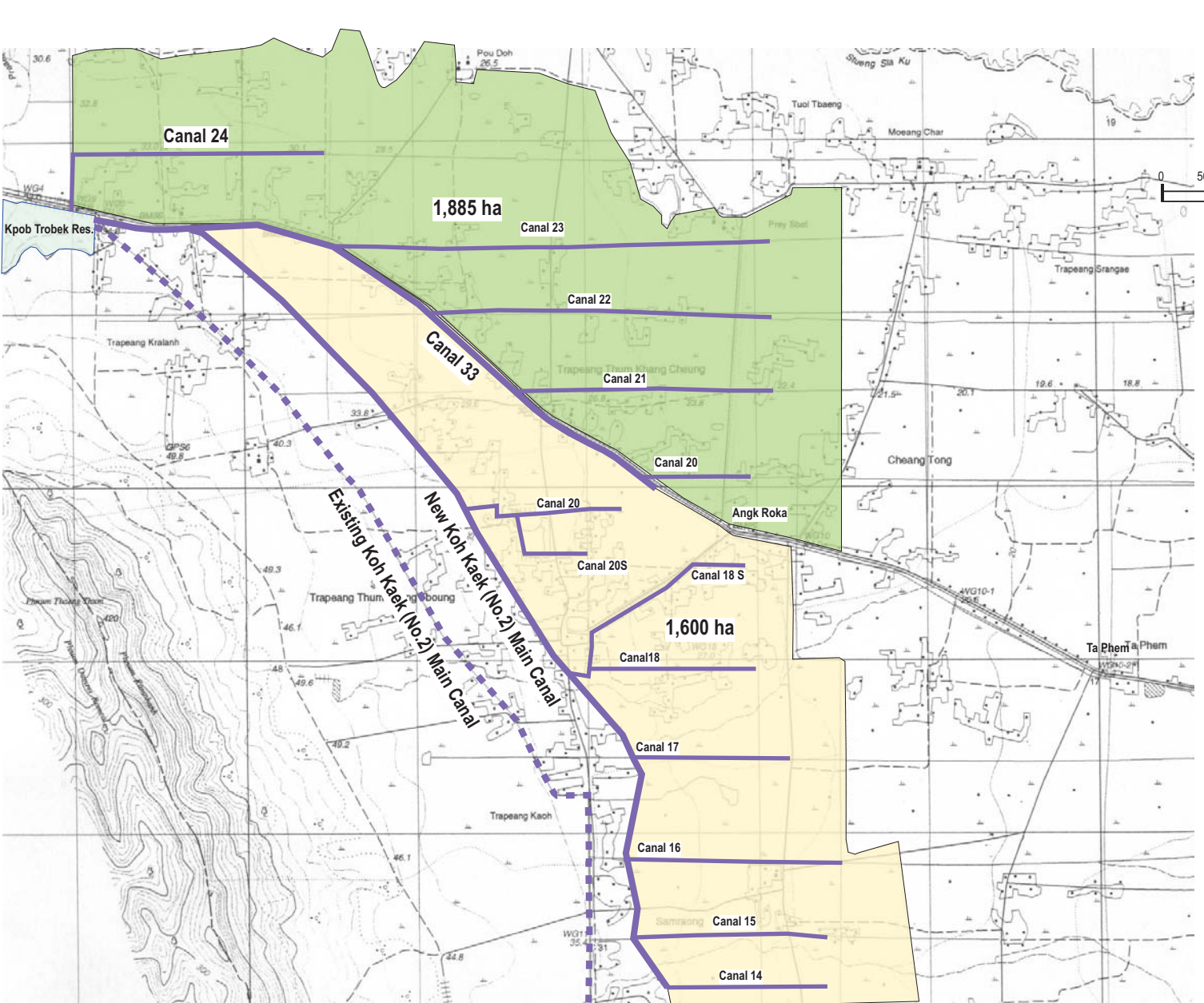


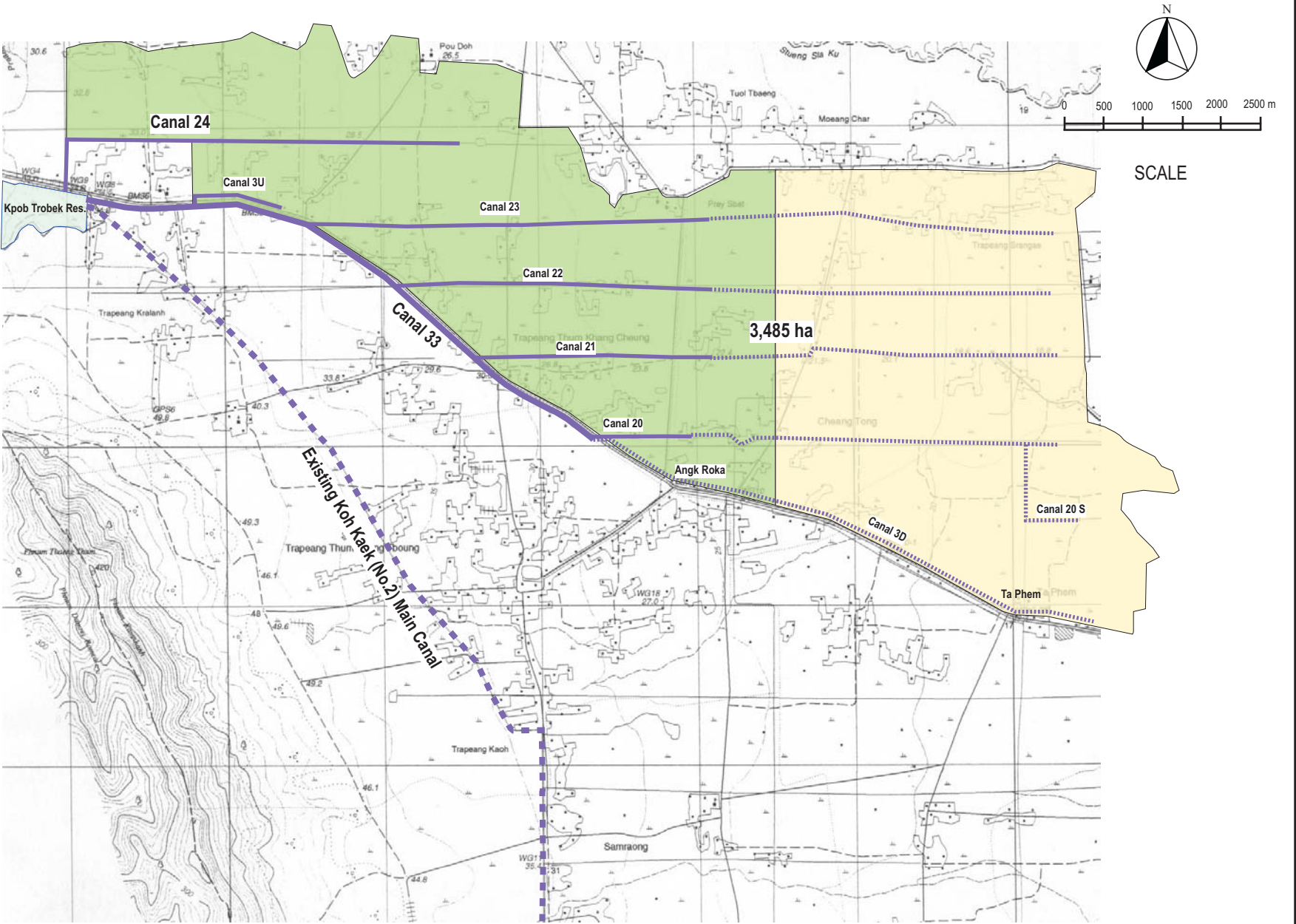
Figure III-1.1
Profile of Existing Koh Kaek Canal





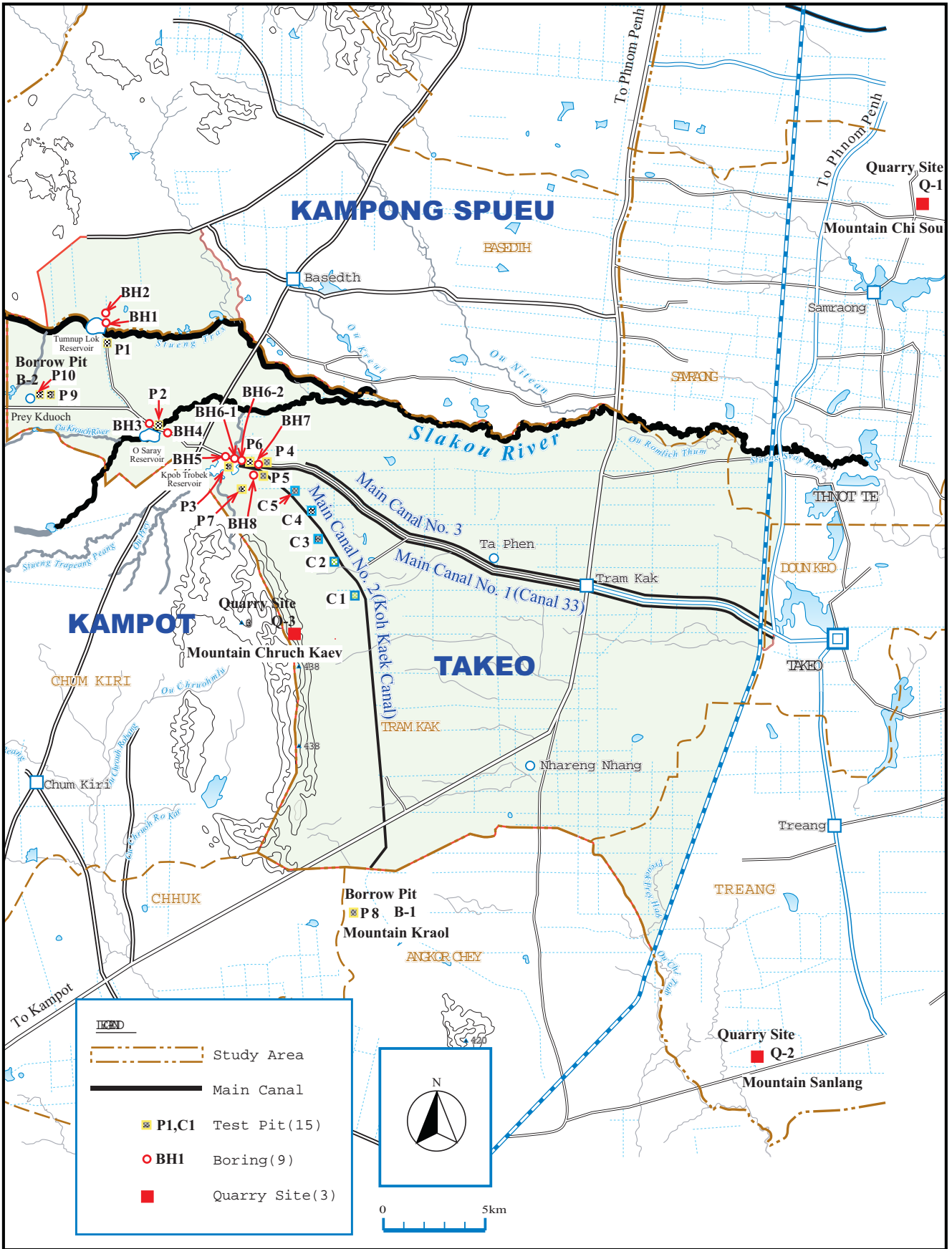
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Figure III-2.1
Irrigation Area of Alternative-1



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Figure III-2.2
Irrigation Area of Alternative-2

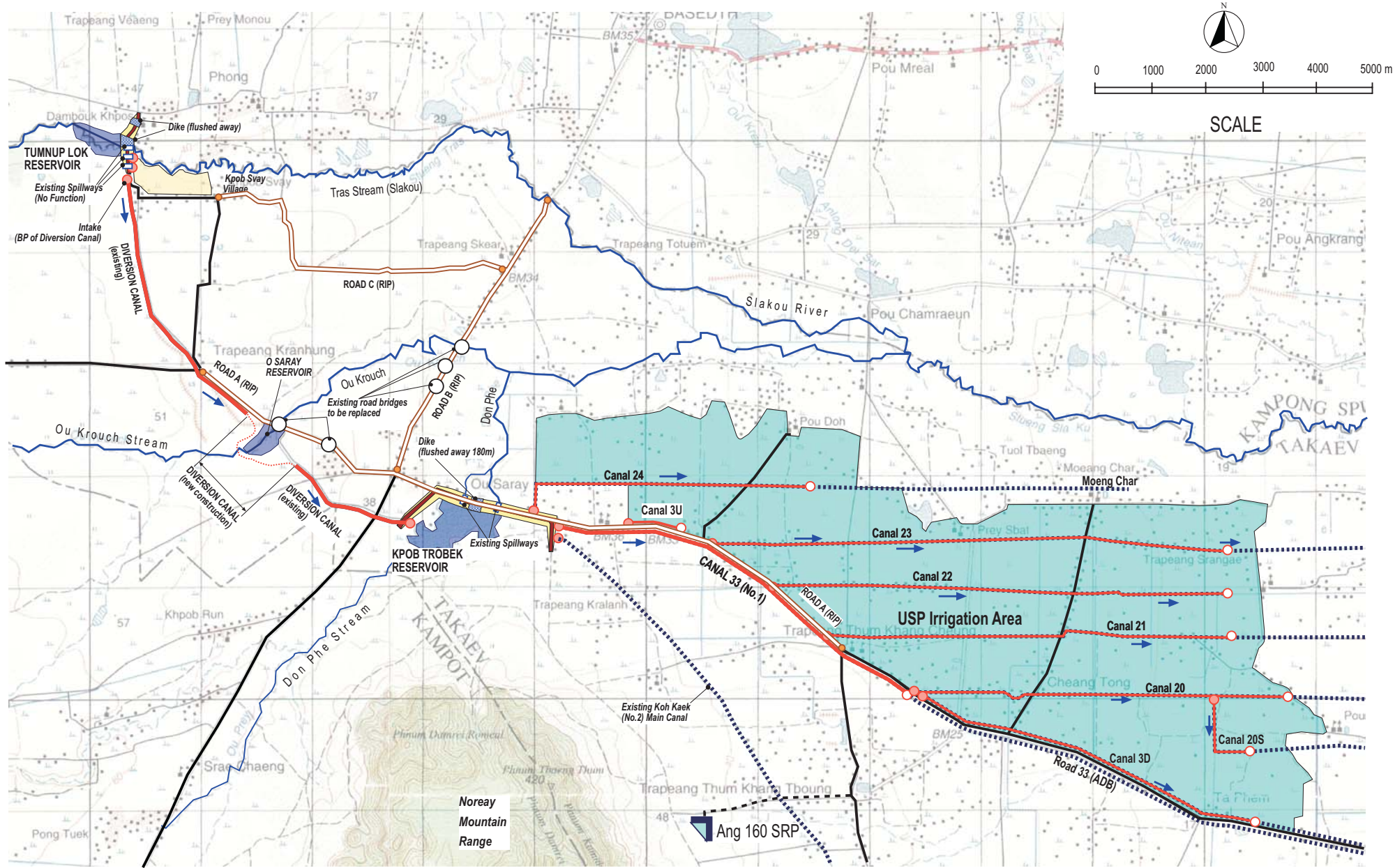


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Figure IV-1.1.1

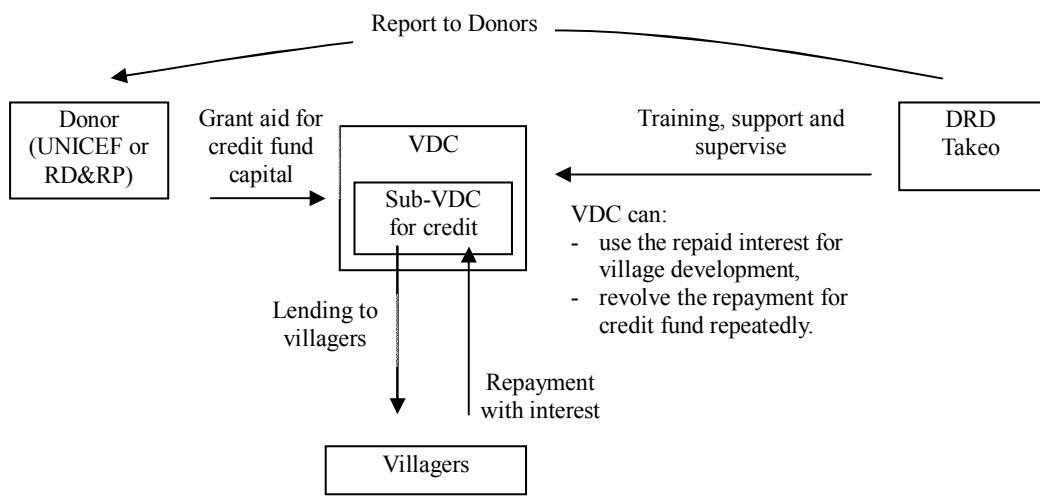
Location Map of Test Pits and Boring

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Figure IV-1.4.1
 USP Area and Existing Infrastructures



Conditions of VDC Credit

Capital fund	Grant aid to each VDC from donor
Management of lending and repayment	Self-management by the VDC independently and autonomously. Usually, 2 members of credit sub-VDC operate the lending and repayment under the VDC.
Training, support and supervising	At the beginning, the donors trained and supervised the VDC member, and currently DRD are supervising the funds and operation.
Purpose of credit lending	Basically for purchase of fertilizer, and during the off-cropping season the fund can be use for other purpose (livestock, etc.).
Lending and repayment	Cash lending and cash repayment with interest.
Lending period	5 -6 months (one cropping season)
Interest rate	2% per month or 10% per season for fertilizer; and 2% or 4% per month for other purpose. The interest has to be repaid every month in some villages.
Revolving of repayment	VDC can revolve the repayment from users for credit fund repeatedly.
Utilization of interest	VDC can use the accumulated interest for village development according the decision of the VDC meeting.

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Figure IV-1.6.1

System and Conditions of Credit by VDC

Tumnup Lok Reservoir

- 1) Water Source : Tras Stream, Slakou River
- 2) Catchment Area : 322 km²
- 3) Effective Storage (20 Years) : 1.00 MCM
- 4) Dike Top Elevation : 43.5m
- 5) Design Flood (100 years) : 420m³/s
- 6) Flood Water Level : EL42.6m
- 7) High Water Level : EL41.5m
- 8) Low Water Level : EL40.4m

Diversion Canal

- 1) Total Length : 9.4km
- 2) Design Discharge : 3.5m³/sec
- 3) Canal Bed Width : 2.0m
- 4) Lining : Laterite Lining

Kpob Trobek Reservoir

- 1) Water Source : Don Phe Stream
- 2) Catchment Area : 137 m²
- 3) Effective Storage (20 Years) : 2.49 MCM
- 4) Dike Top Elevation : 39.0m
- 5) Design Flood (100 years) : 195m³/s
- 6) Flood Water Level : EL38.1m
- 7) High Water Level : EL37.3m
- 8) Low Water Level : EL40.4m

A-1 Section

- 1) Design Discharge : 3,216.4 l/s
- 2) Length of Canal : 1,265 m
- 3) Canal Bed Width : 2.0 m
- 4) Design Water Depth : 1.62 m
- 5) Canal Gradient : 1/5,000

A-2 Section

- 1) Design Discharge : 3,065.2 l/s
- 2) Length of Canal : 1,699m
- 3) Canal Bed Width : 2.0m
- 4) Design Water Depth : 1.19 m
- 5) Canal Gradient : 1/1,500

A-3 Section

- 1) Design Discharge : 2,214.1 l/s
- 2) Length of Canal : 1,253m
- 3) Canal Bed Width : 1.5 m
- 4) Design Water Depth : 1.10 m
- 5) Canal Gradient : 1/1,500

A-4 Section

- 1) Design Discharge : 1,544.4 l/s
- 2) Length of Canal : 1,589m
- 3) Canal Bed Width : 1.3 m
- 4) Design Water Depth : 0.96 m
- 5) Canal Gradient : 1/1,500

A-5 Section

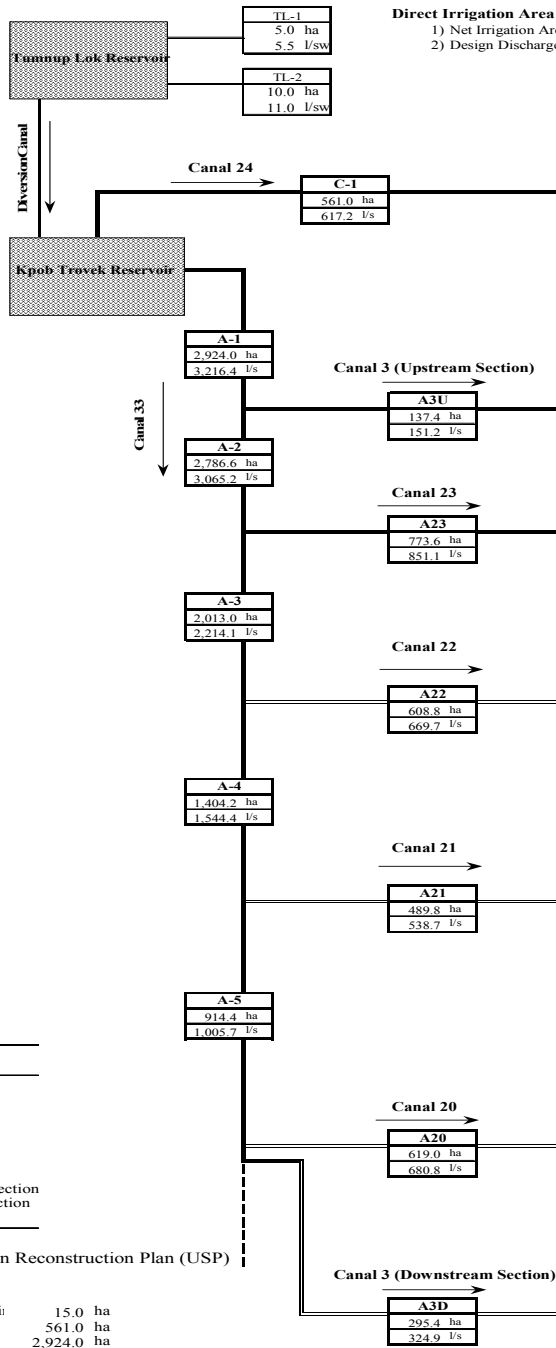
- 1) Design Discharge : 1,005.7 l/s
- 2) Length of Canal : 1,495m
- 3) Canal Bed Width : 1.0 m
- 4) Design Water Depth : 0.80 m
- 5) Canal Gradient : 1/1,200

Legend

- Main Canal Course
- Secondary Canal Course
- Tertiary Canal Course
- Name of Canal Section
- Net Irrigation Area of the Section
- Design Discharge of the Section

Irrigation area of Upper Slakou River Irrigation Reconstruction Plan (USP)

Direct Intake from Tumnup Lok Reservoir	15.0 ha
Canal 24	561.0 ha
Canal 33	2,924.0 ha
	3,500.0 ha



Direct Irrigation Area from Tumnup Lok Reservoir

- 1) Net Irrigation Area : 15.0 ha
- 2) Design Discharge : 16.5 l/s

Canal 24

- 1) Net Irrigation Area : 561.0 ha
- 2) Design Discharge at B.P. : 617.2 l/s
- 3) Number of Tertiary Block : 9 nos.
- 4) Length of Canal : 5,715 m
- 5) Canal Bed Width at B.P. : 1.0 m
- 6) Water Surface Level at B.P. : EL 34.57 m

Canal 3 (Upstream Section)

- 1) Net Irrigation Area : 137.4 ha
- 2) Design Discharge at B.P. : 151.2 l/s
- 3) Number of Tertiary Block : 3 nos.
- 4) Length of Canal : 1,410 m
- 5) Canal Bed Width at B.P. : 0.5 m
- 6) Water Surface Level at B.P. : EL 34.57 m

Canal 23

- 1) Net Irrigation Area : 773.6 ha
- 2) Design Discharge at B.P. : 851.1 l/s
- 3) Number of Tertiary Block : 23 nos.
- 4) Length of Canal : 9,245 m
- 5) Canal Bed Width at B.P. : 1.0 m
- 6) Water Surface Level at B.P. : EL 31.40 m

Canal 22

- 1) Net Irrigation Area : 608.8 ha
- 2) Design Discharge at B.P. : 669.7 l/s
- 3) Number of Tertiary Block : 21 nos.
- 4) Length of Canal : 8,040 m
- 5) Canal Bed Width at B.P. : 0.8 m
- 6) Water Surface Level at B.P. : EL 29.44 m

Canal 21

- 1) Net Irrigation Area : 489.8 ha
- 2) Design Discharge at B.P. : 538.7 l/s
- 3) Number of Tertiary Block : 19 nos.
- 4) Length of Canal : 6,930 m
- 5) Canal Bed Width at B.P. : 0.8 m
- 6) Water Surface Level at B.P. : EL 28.35 m

Canal 20

- 1) Net Irrigation Area : 619.0 ha
- 2) Design Discharge at B.P. : 680.8 l/s
- 3) Number of Tertiary Block : 20 nos.
- 4) Length of Canal : 6,690 m
- 5) Canal Bed Width at B.P. : 0.9 m
- 6) Water Surface Level at B.P. : EL 26.26 m

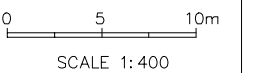
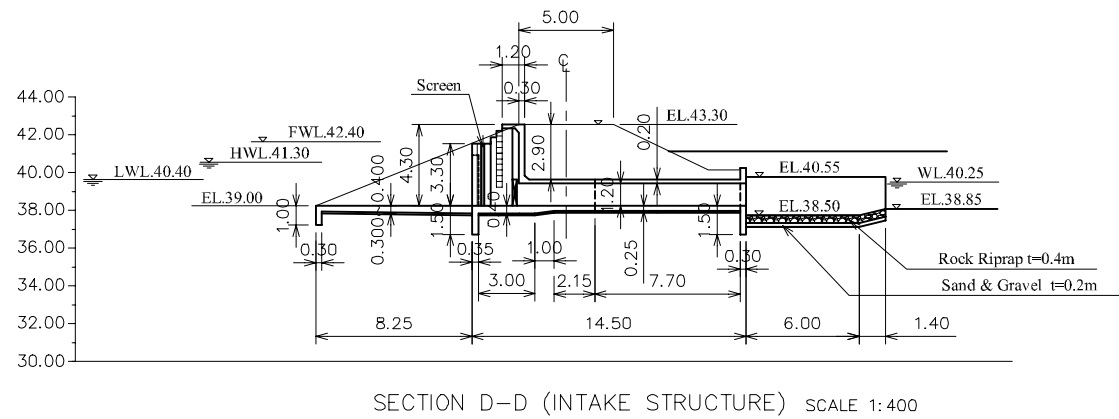
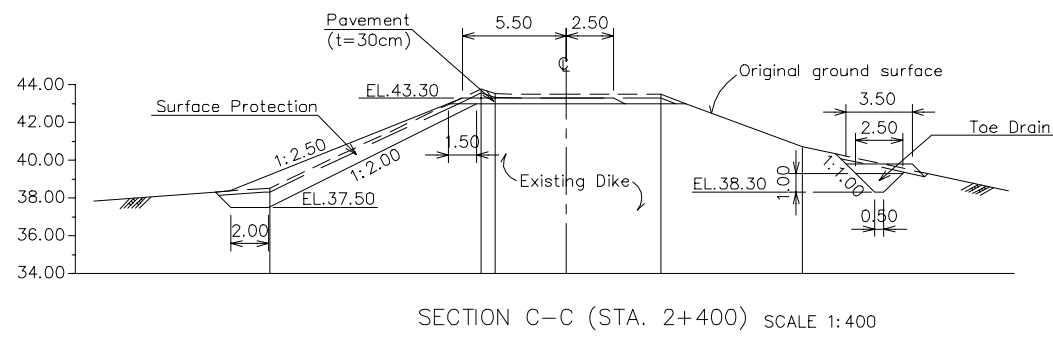
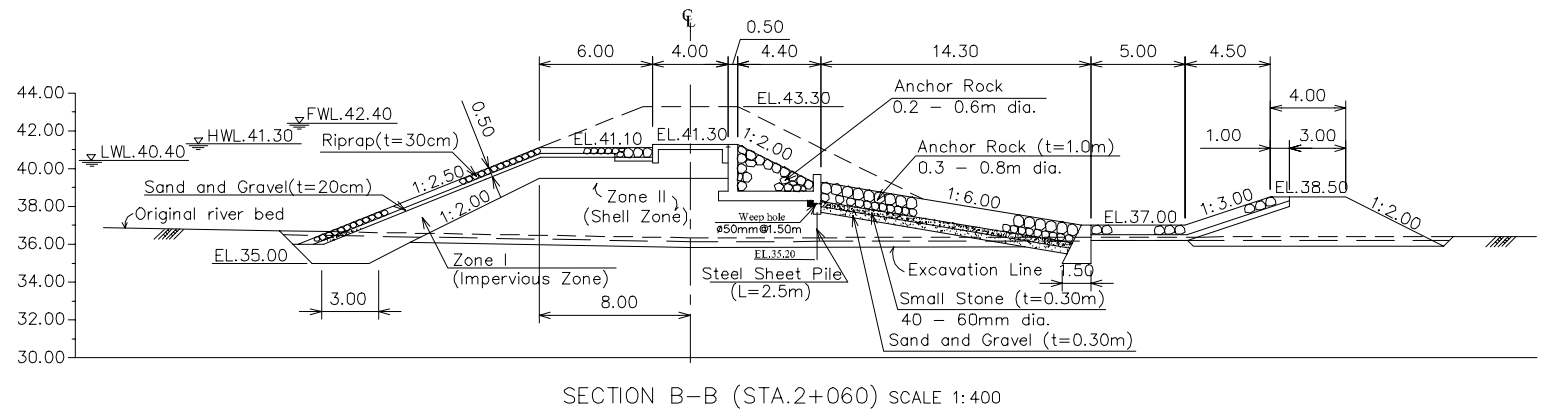
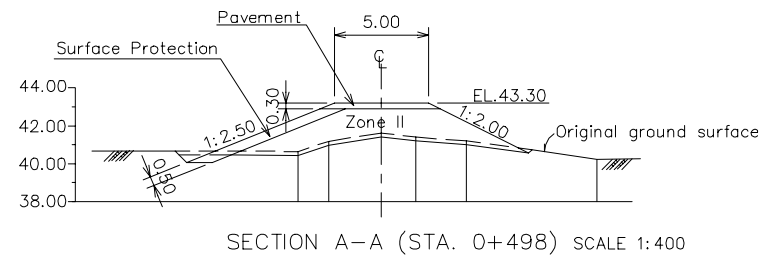
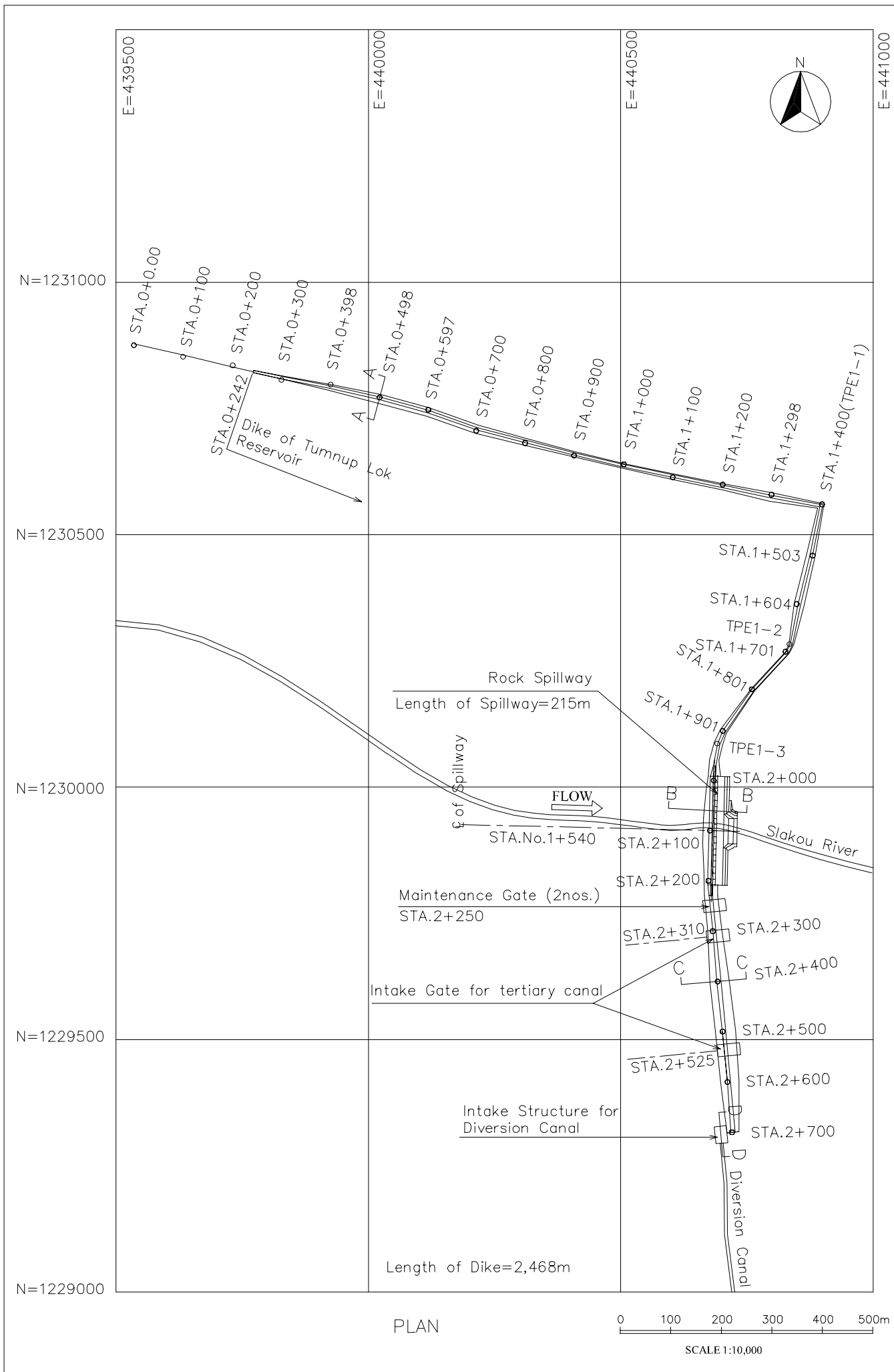
Canal 3 (Downstream Section)

- 1) Net Irrigation Area : 295.4 ha
- 2) Design Discharge at B.P. : 324.9 l/s
- 3) Number of Tertiary Block : 9 nos.
- 4) Length of Canal : 6,675 m
- 5) Canal Bed Width at B.P. : 0.7 m
- 6) Water Surface Level at B.P. : EL 26.25 m

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Figure IV-2.1.1

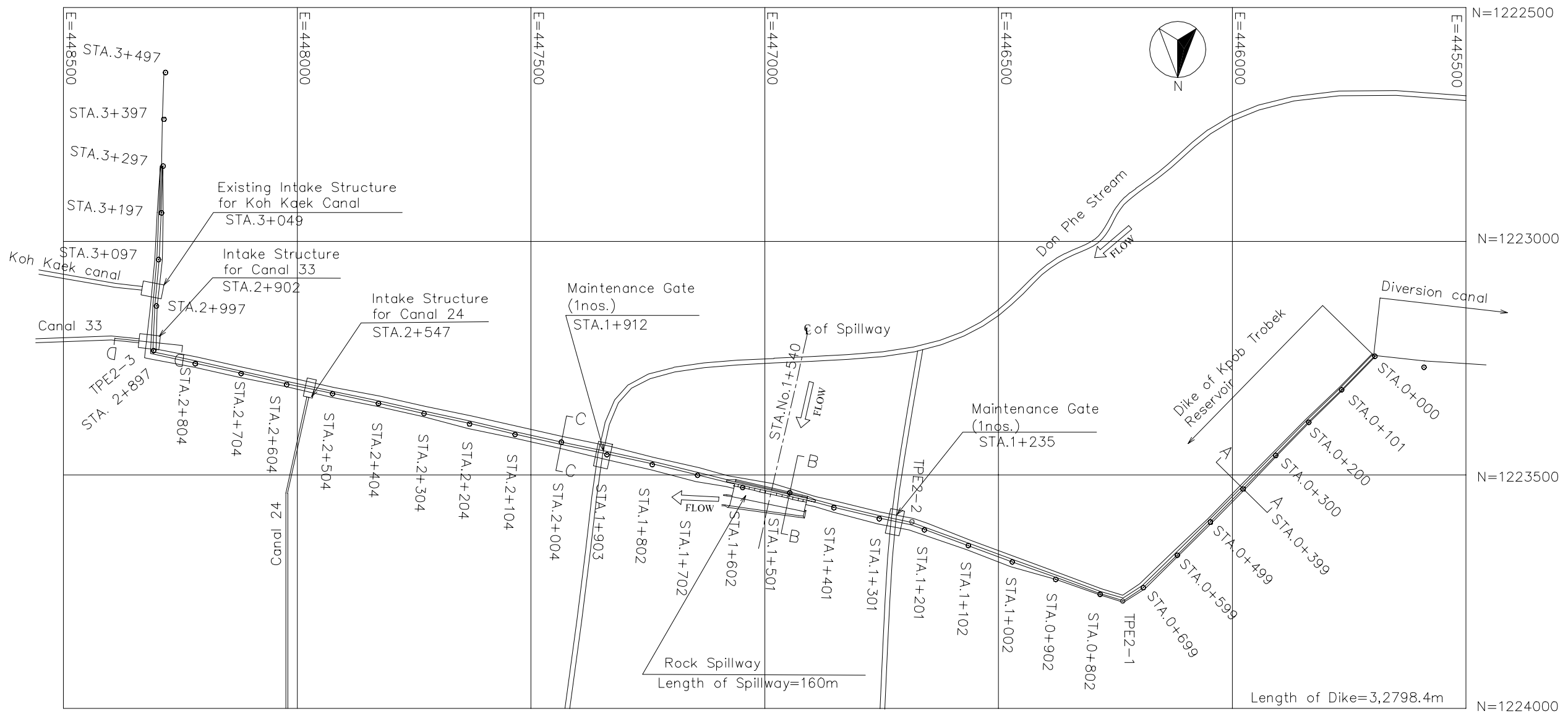
□ Irrigation Plan of USP



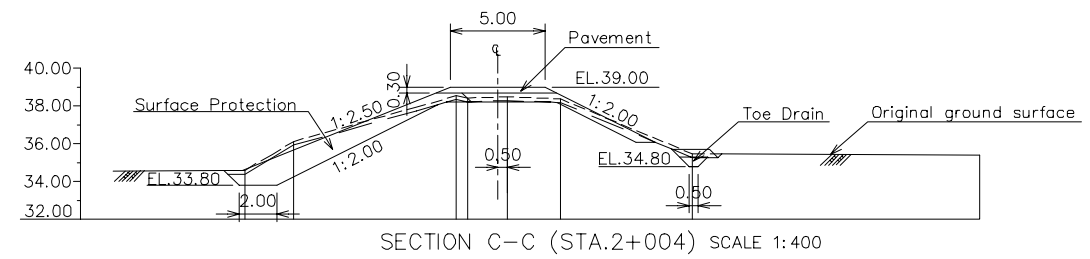
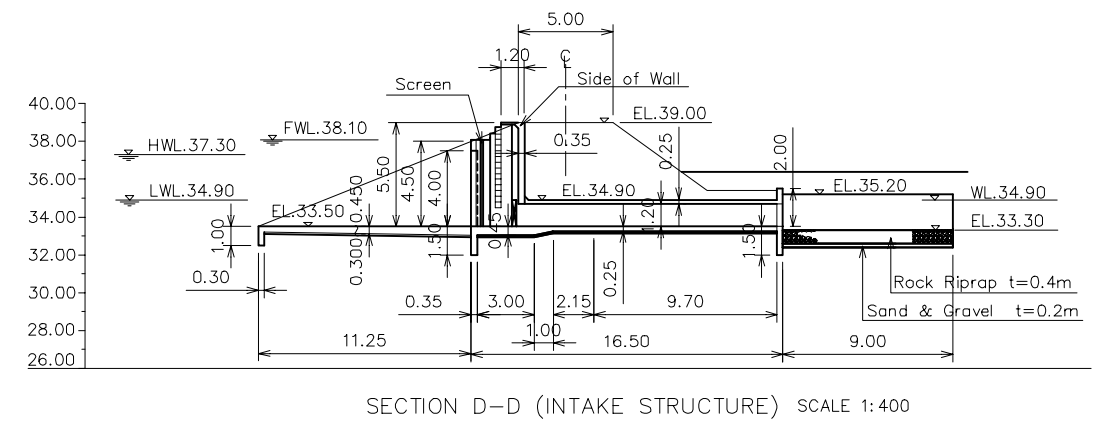
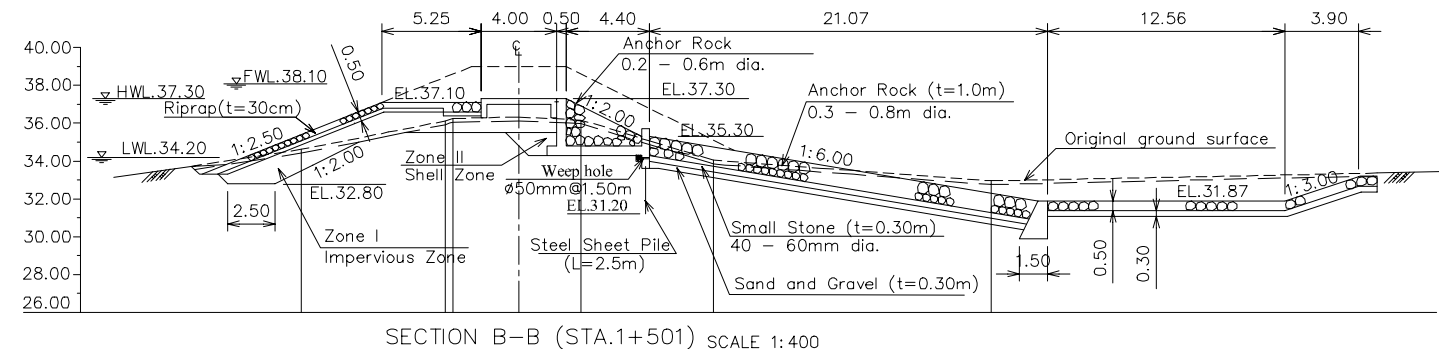
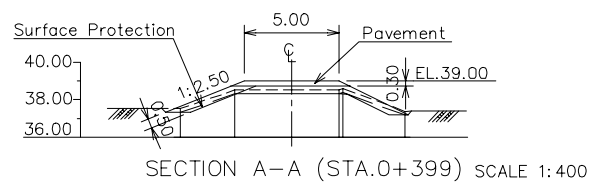
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Figure IV-2.3.1
General Plan of Tumnap Lok Reservoir



PLAN SCALE 1:10,000



SCALE 1:400

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 Figure IV-2.3.2
 General Plan of Kpob Trobek Reservoir
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