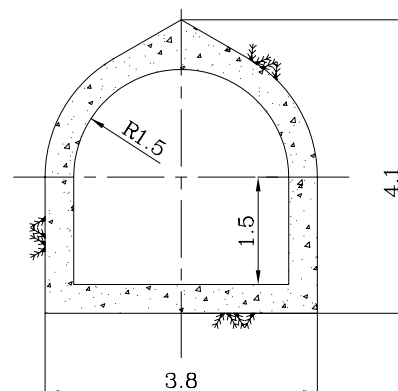
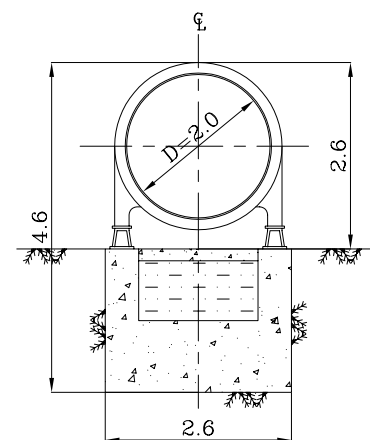


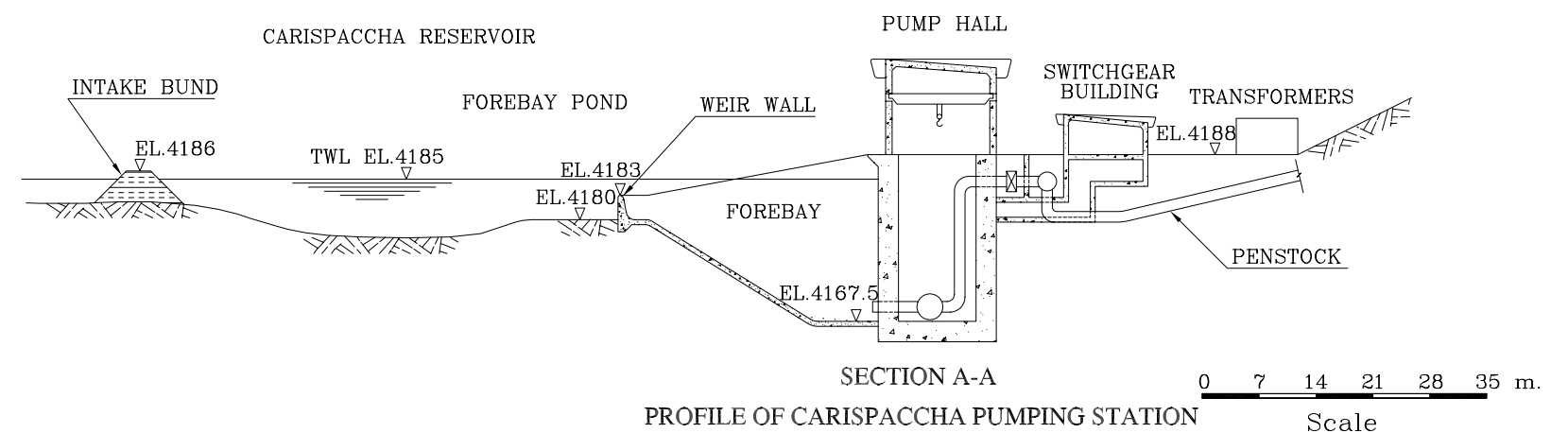
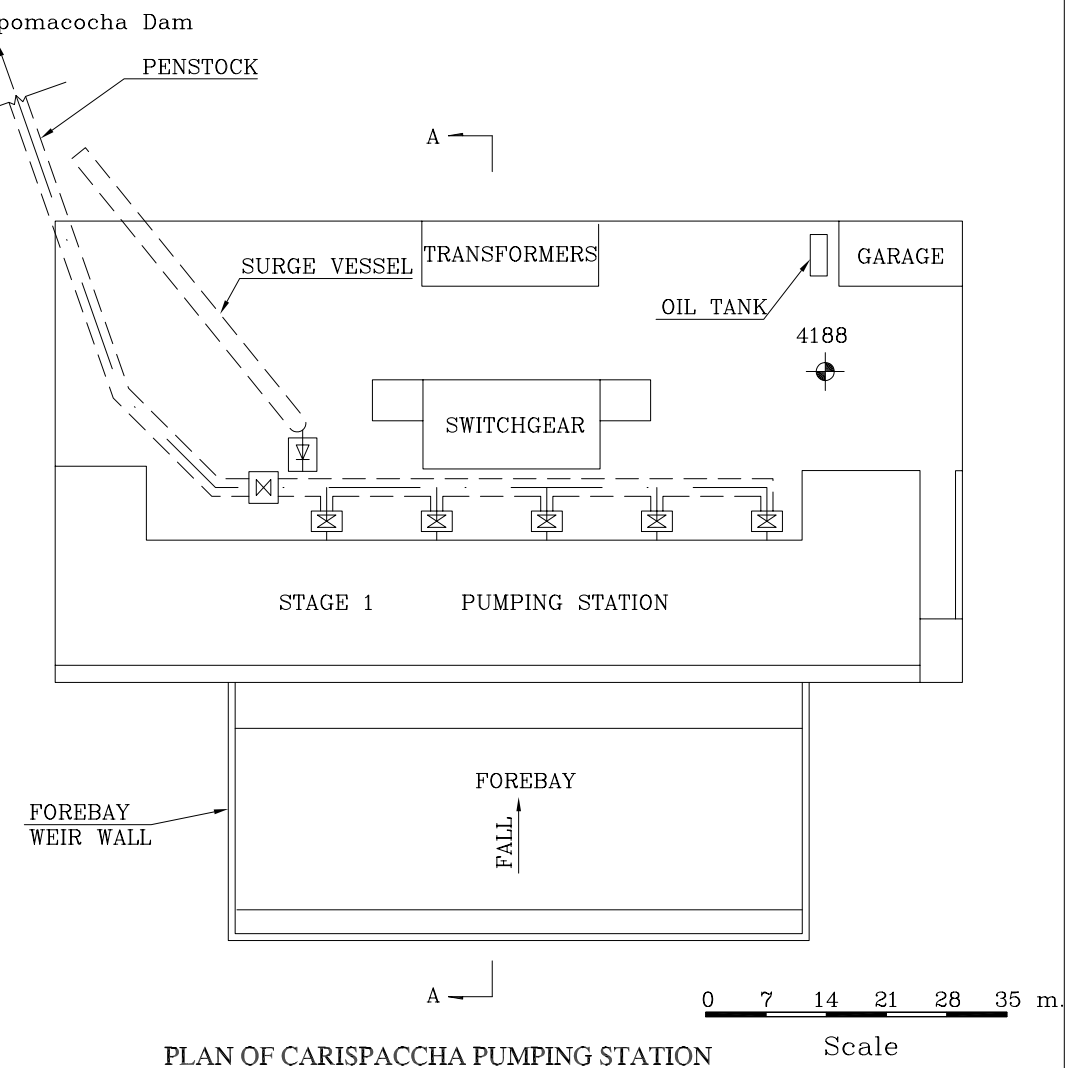
TYPICAL CROSS SECTION OF OPEN CHANNEL



TYPICAL CROSS SECTION OF TUNNEL

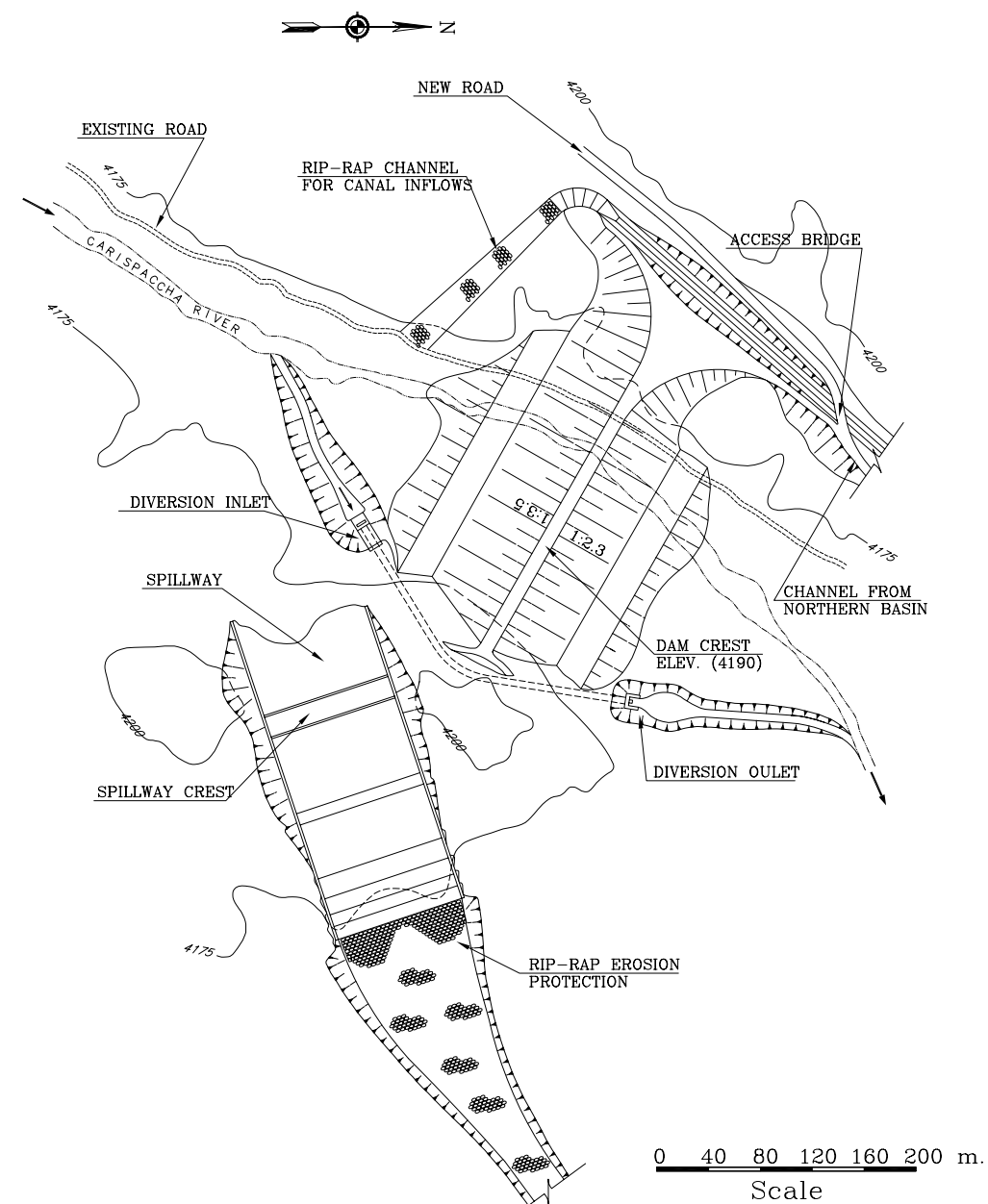


TYPICAL CROSS SECTION OF PENSTOCK (Carispaccha to Marcapomacocha)

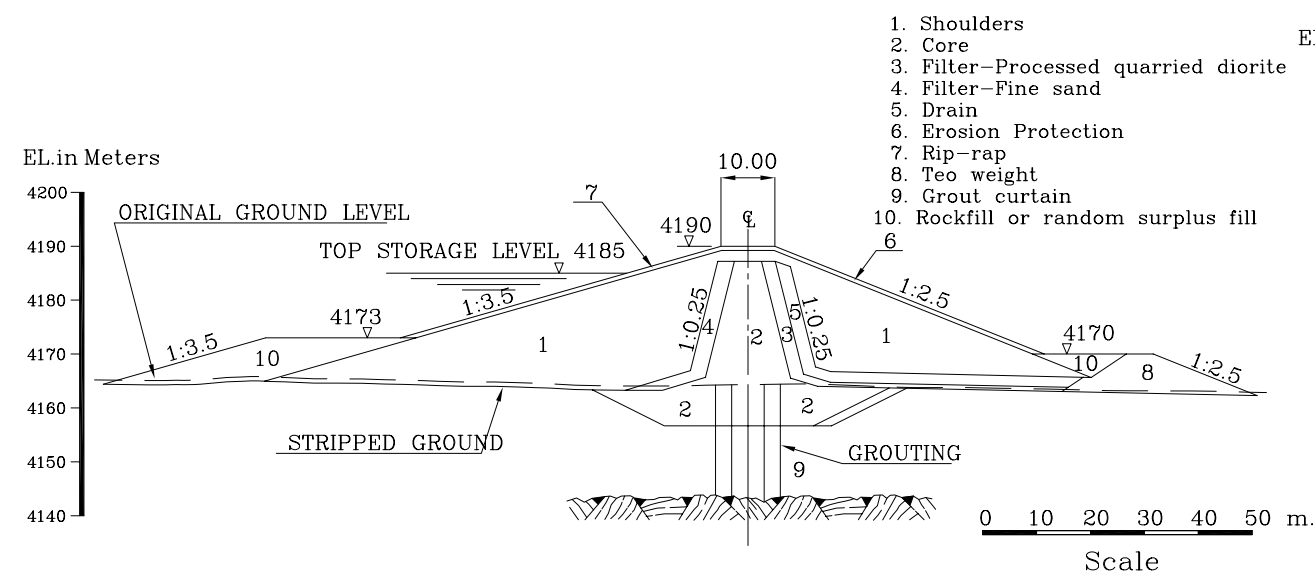


Note:

- 1) For location of facilities, see Figures 5.1.10 and 5.1.11
- 2) For Pumping station, original design prepared by BINNIE & PARTNERS, 1981

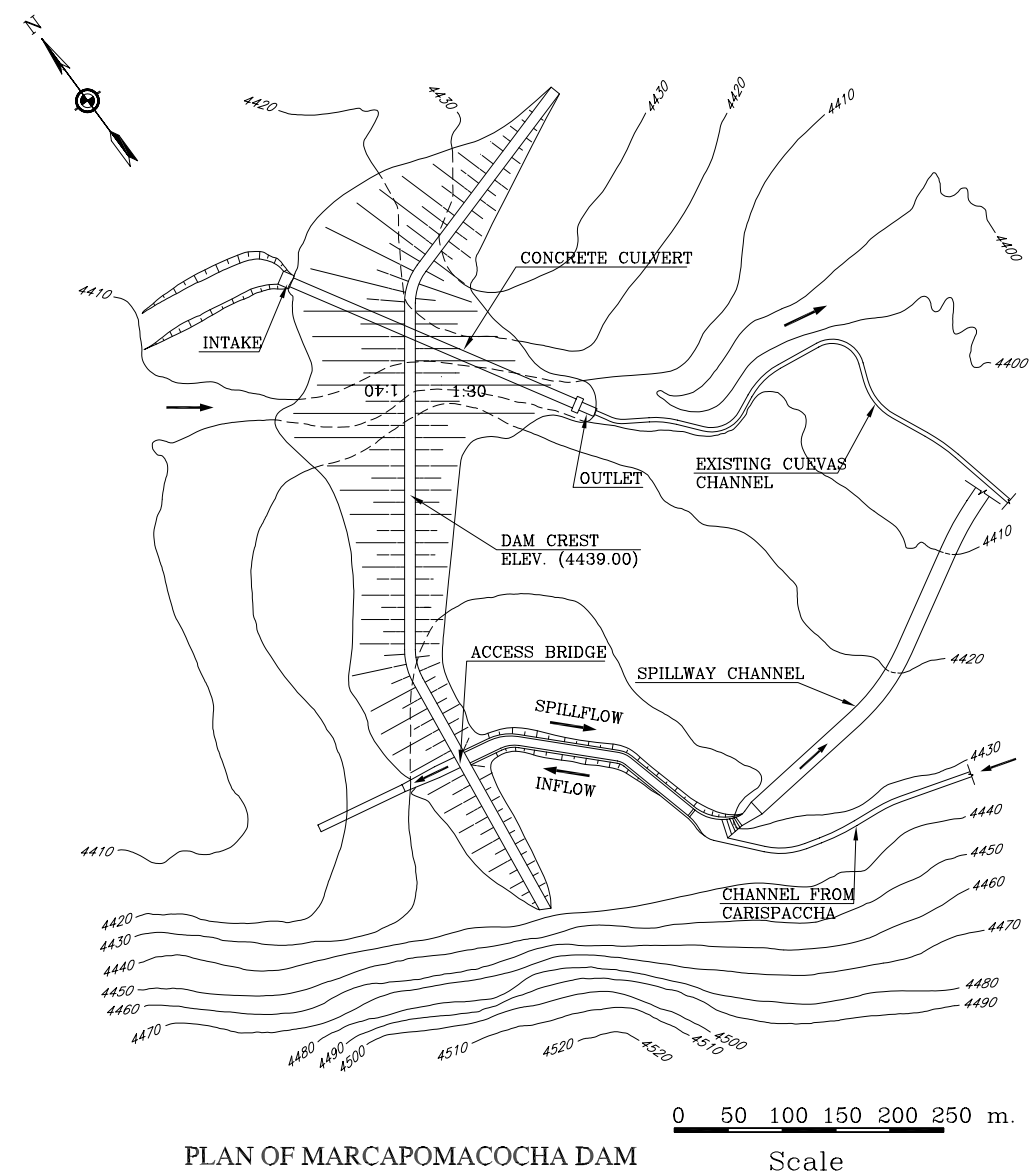


PLAN OF CRISPACCHA DAM ZONES IN DAM



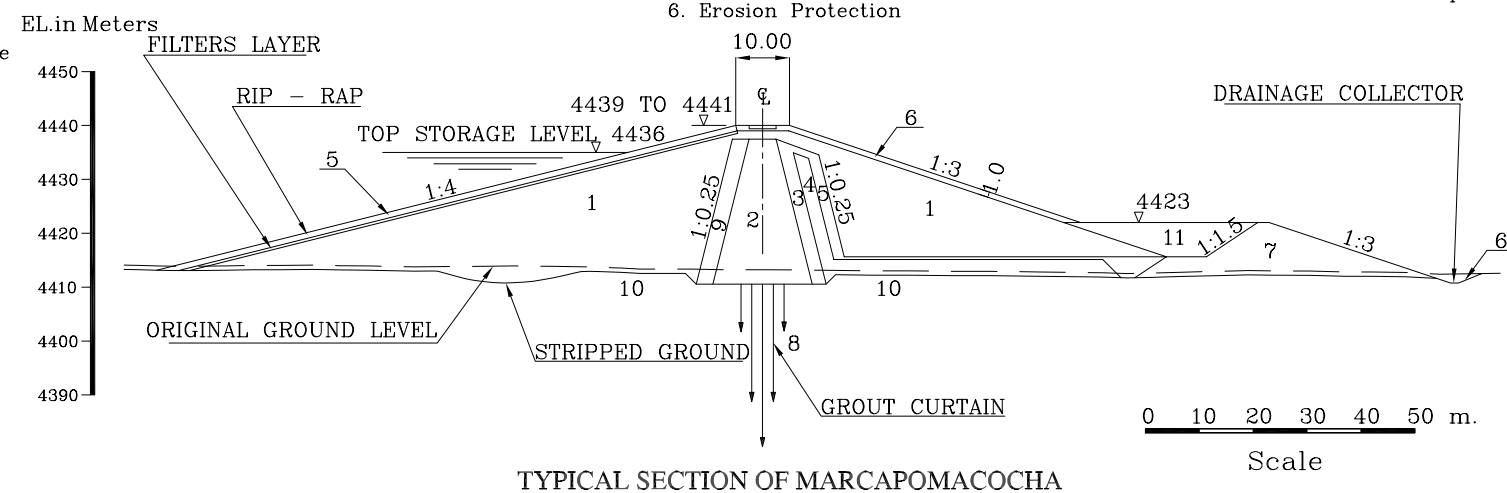
Note:

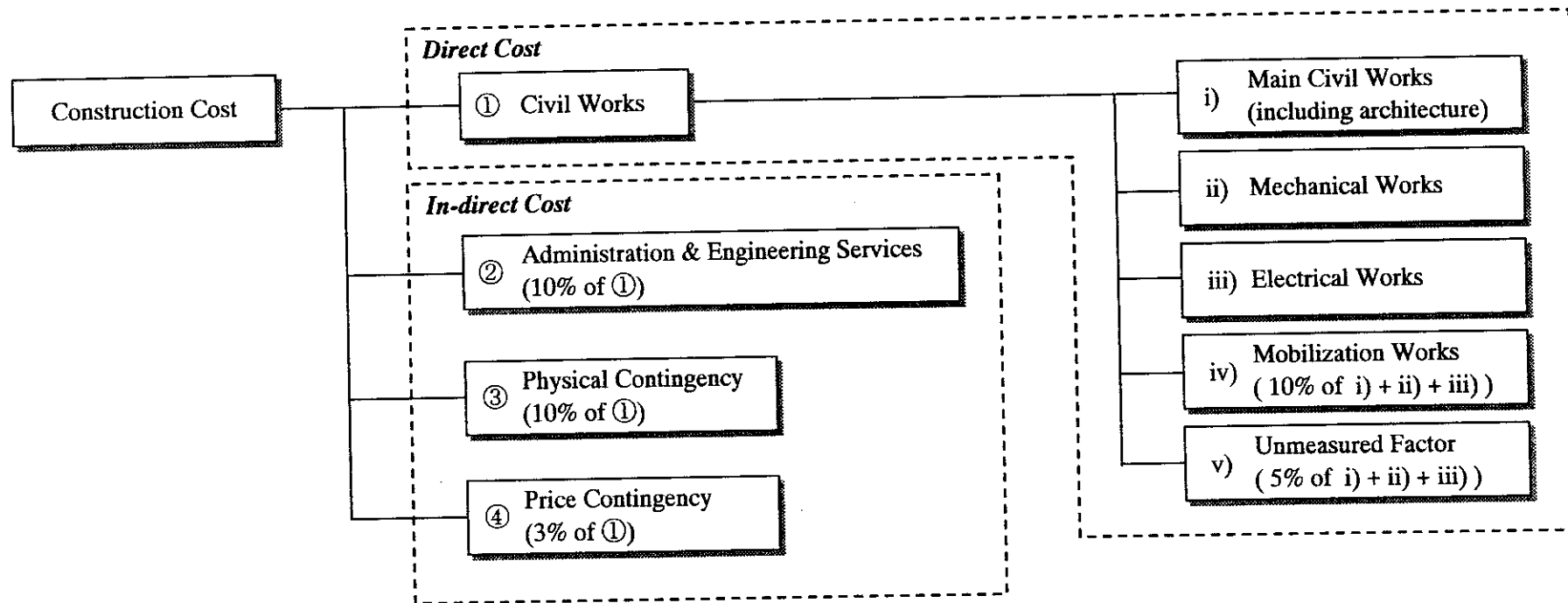
- 1). For location of Dams, see Figures 5.1.10 and 5.1.11
- 2). Original Design Prepared by BINNIE & PARTNERS, 1981



ZONES IN DAM

1. Fill
2. Core- containing not less than 5% clay
3. Downstream filter
4. Drain
5. Rip rop
6. Erosion Protection
7. Toe Weight-Rockfill
8. Grouted cut-off
9. Upstream filter
10. Foundation Soil
11. Rockfill or random surplus fill





Formation of Construction Cost

Figure 2.1 Formation of Construction Cost