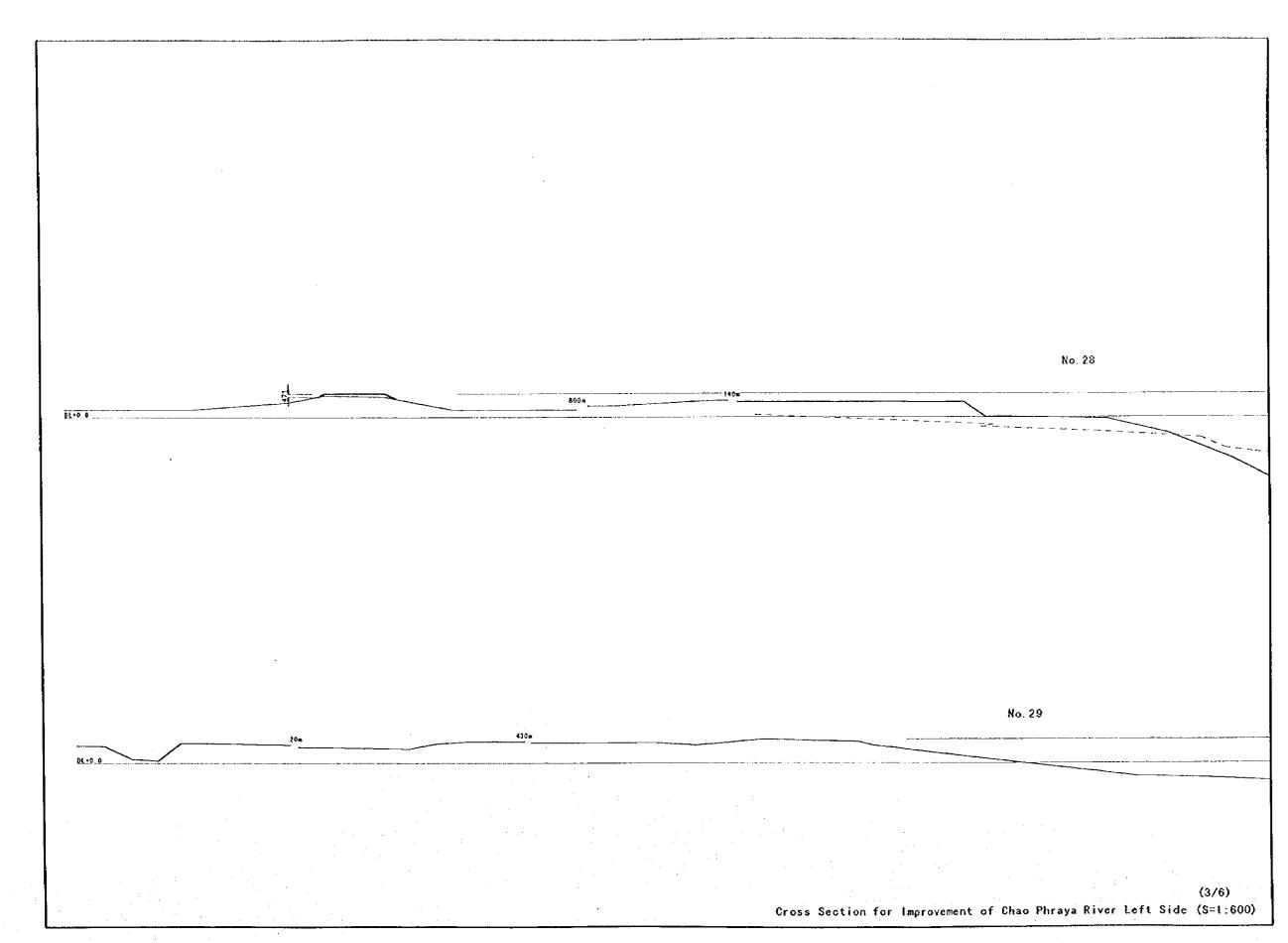
4. Cross Sections for River Improvement in the Feasibility Study

Improvement at 3-year return period Atternative=2-2
Embankment Volume
V = Approx. 1, 800m3/100m
Area for Sodding
A = Approx. 1, 000m2/100m
Area for Land Acquisition Alternative-1 Alternative-2-1 Concrete Yoluse V=1/2x(0.3+0.5)x2.7+0.5x1.0+1.0x1.0x0.5/4=1,74 m3/m Heightening : Approx. 0.34 Storucture : Heightening of Existing Road Number of Pila K=100/2.8+100/4.0= 75 pieces/100m A = Approx. 1, 200=2/100a No. 24 390-Design Dike Level MSL+3.6m PC Pile 01A400mm Pitch 2.0m. L=7m PC Pile BIA400mm Pitch 4.0m, L=7m No. 25 Improvement at 3-year return period Alternative-2-2
Embanhment Volume
V = Approx. I,500#3/100#
Area for Sodding
A = Approx. I,000#2/100#
Area for Land Acquisition Aftermative-1 Alternative-2-1 Concrete Yolume V=1/2x(0,3+0,5)x2.2+0,5x1.0=1,38 m3/m Reightening : Approx. 0.6m Sturocture : Heightening of Existing Road Number of Pite N=100/2.0= 50 pieces/100m A = Approx. 1,200m2/100m PC Pile DIA400mm Pilch 2.0m, L=7m (1/6)Cross Section for Improvement of Chao Phraya River Left Side (S=1:600)

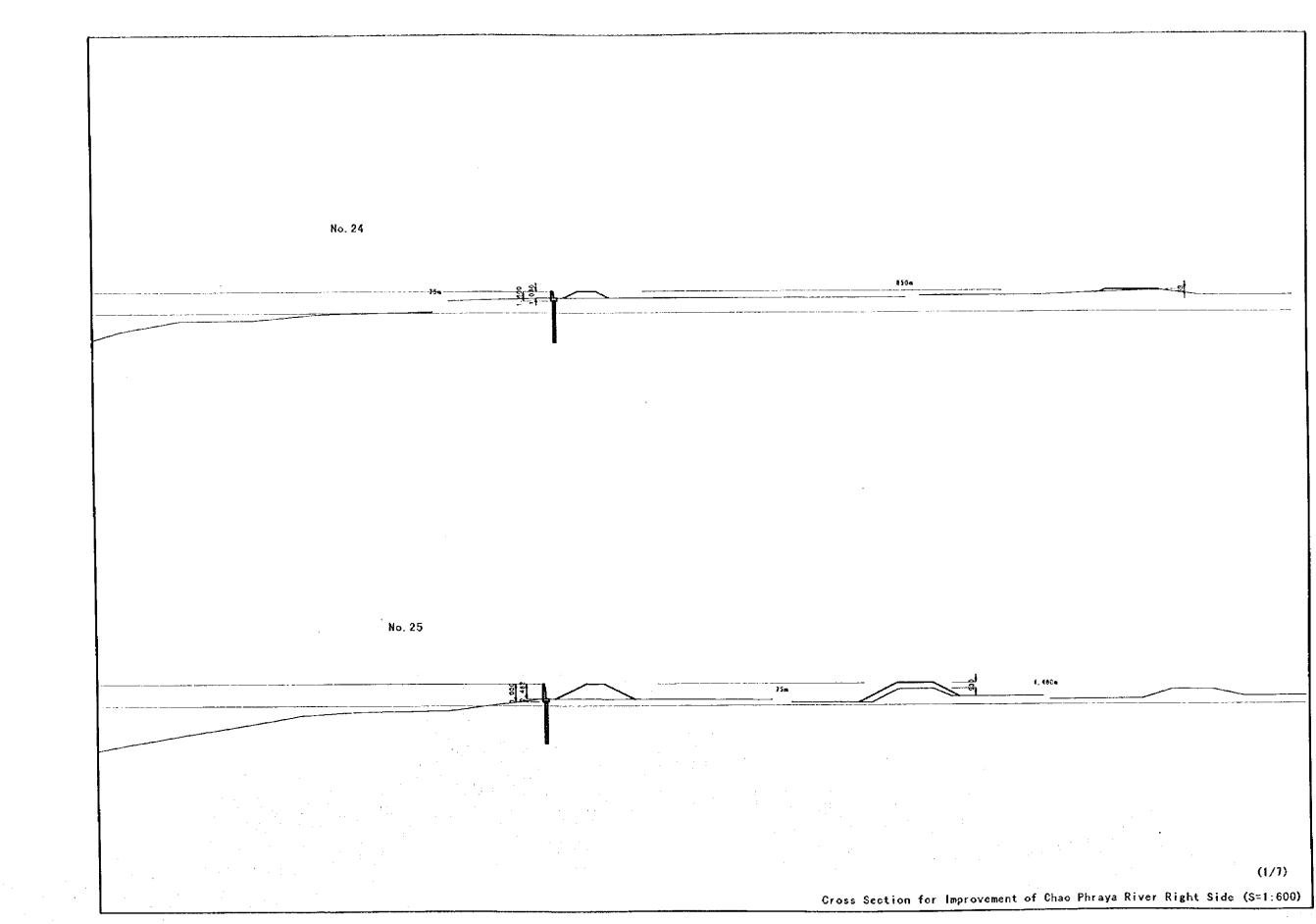
No. 26 No. 27 (2/6) Cross Section for improvement of Chao Phraya River Left Side (S=1:600)

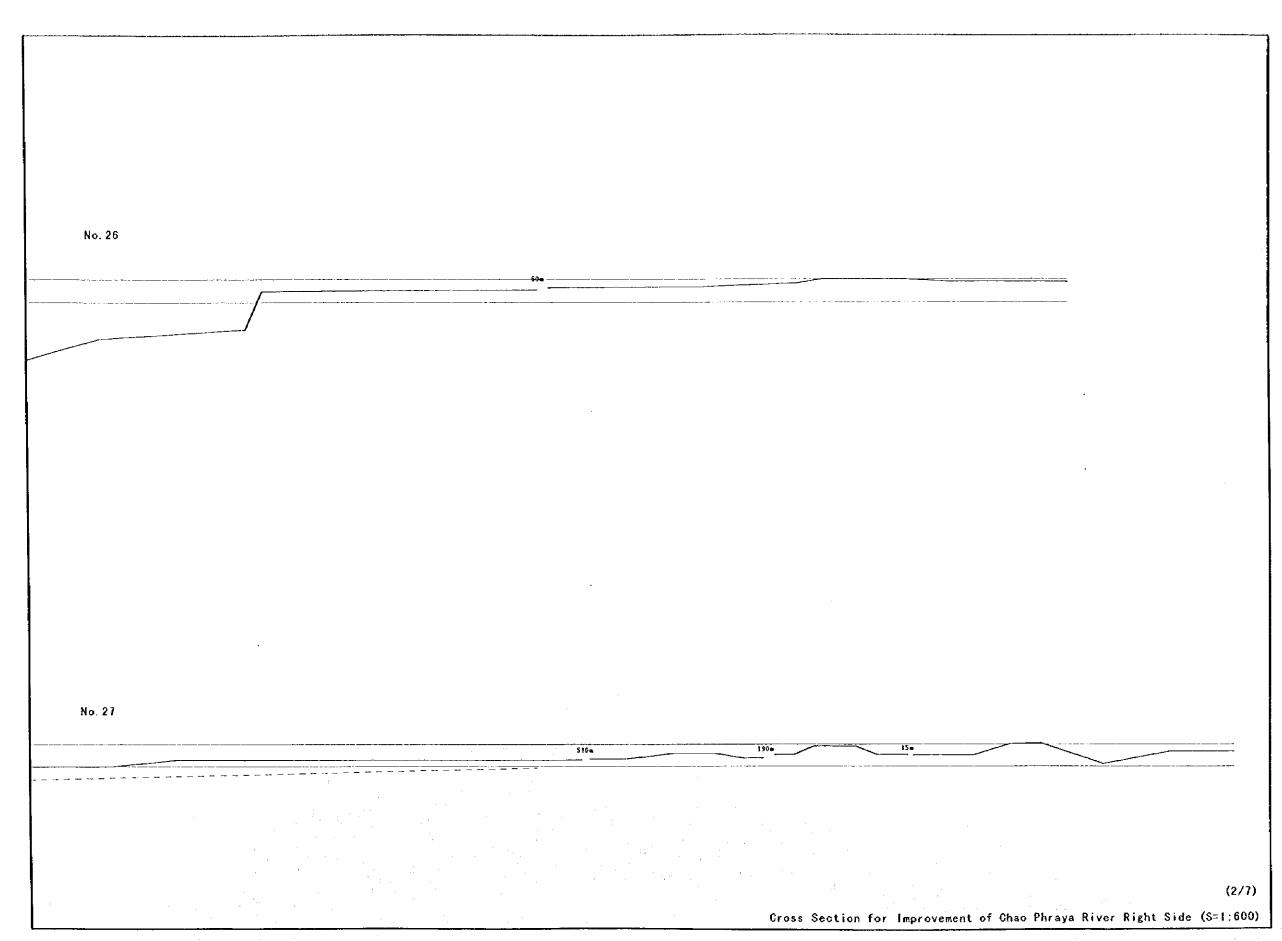


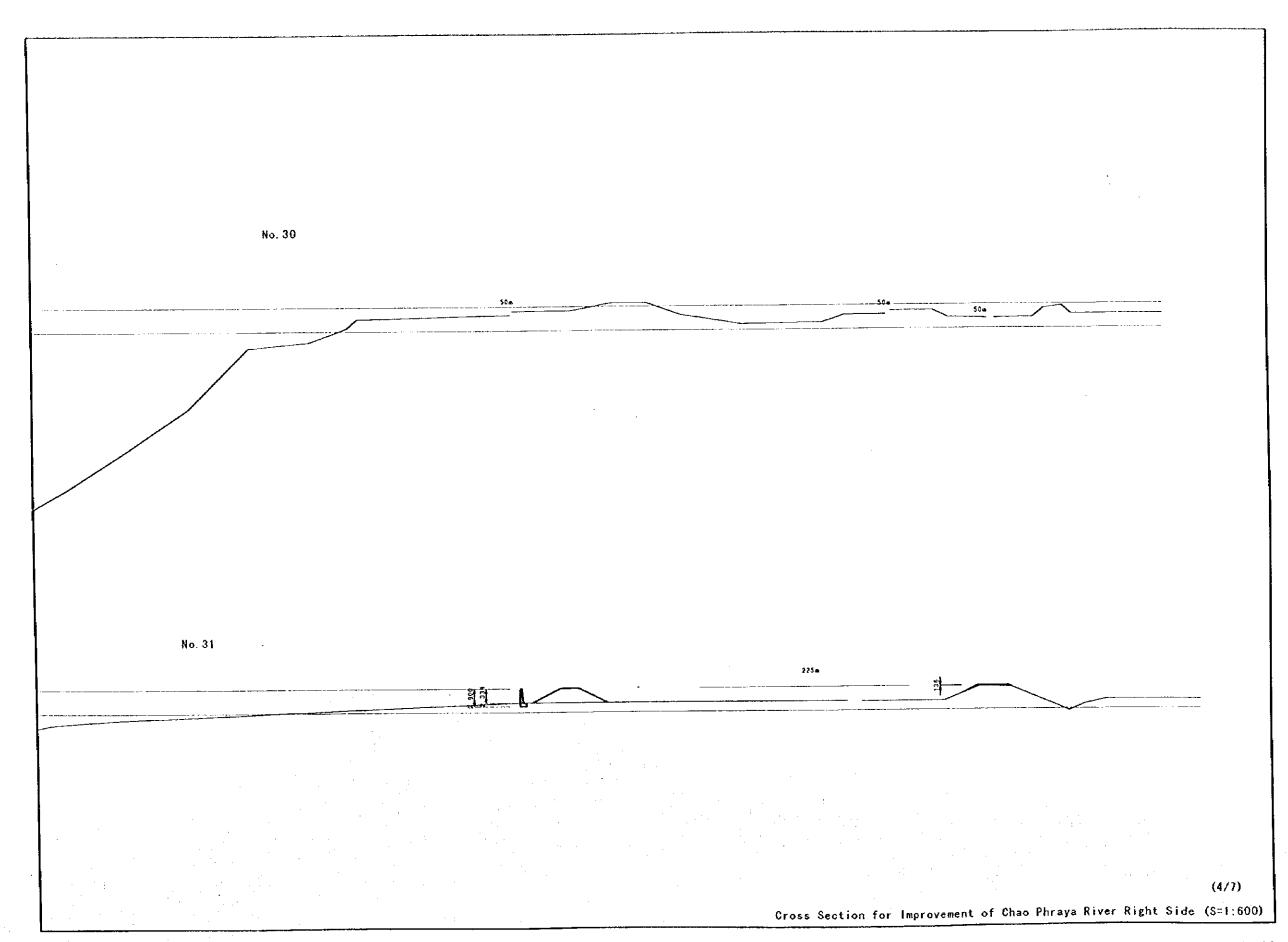
No. 30 No. 31 (4/6)Cross Section for Improvement of Chao Phraya River Left Side (S=1:600)

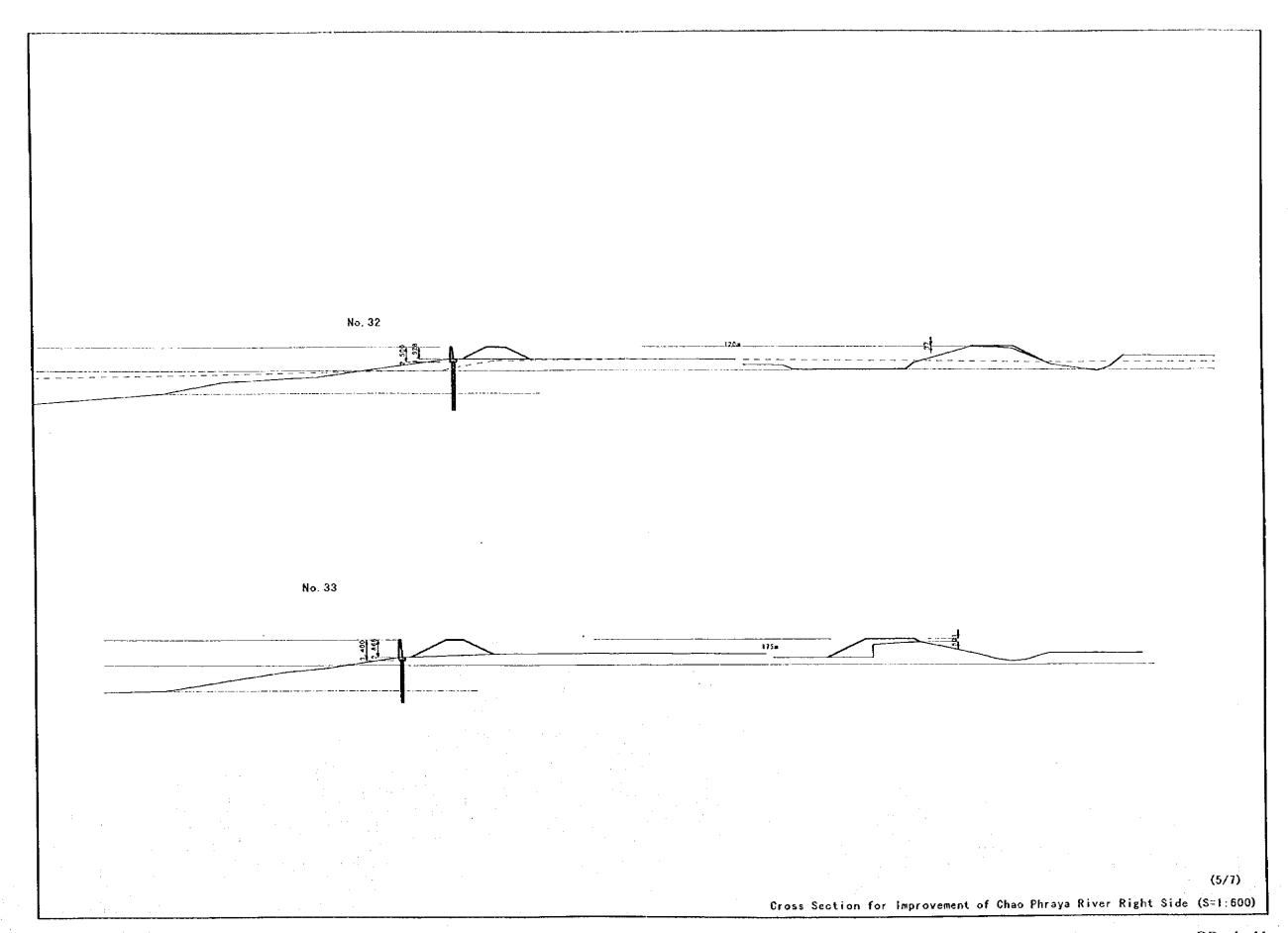
No. 32 No. 33 (5/6) Cross Section for Improvement of Chao Phraya River Left Side (S=1:600)

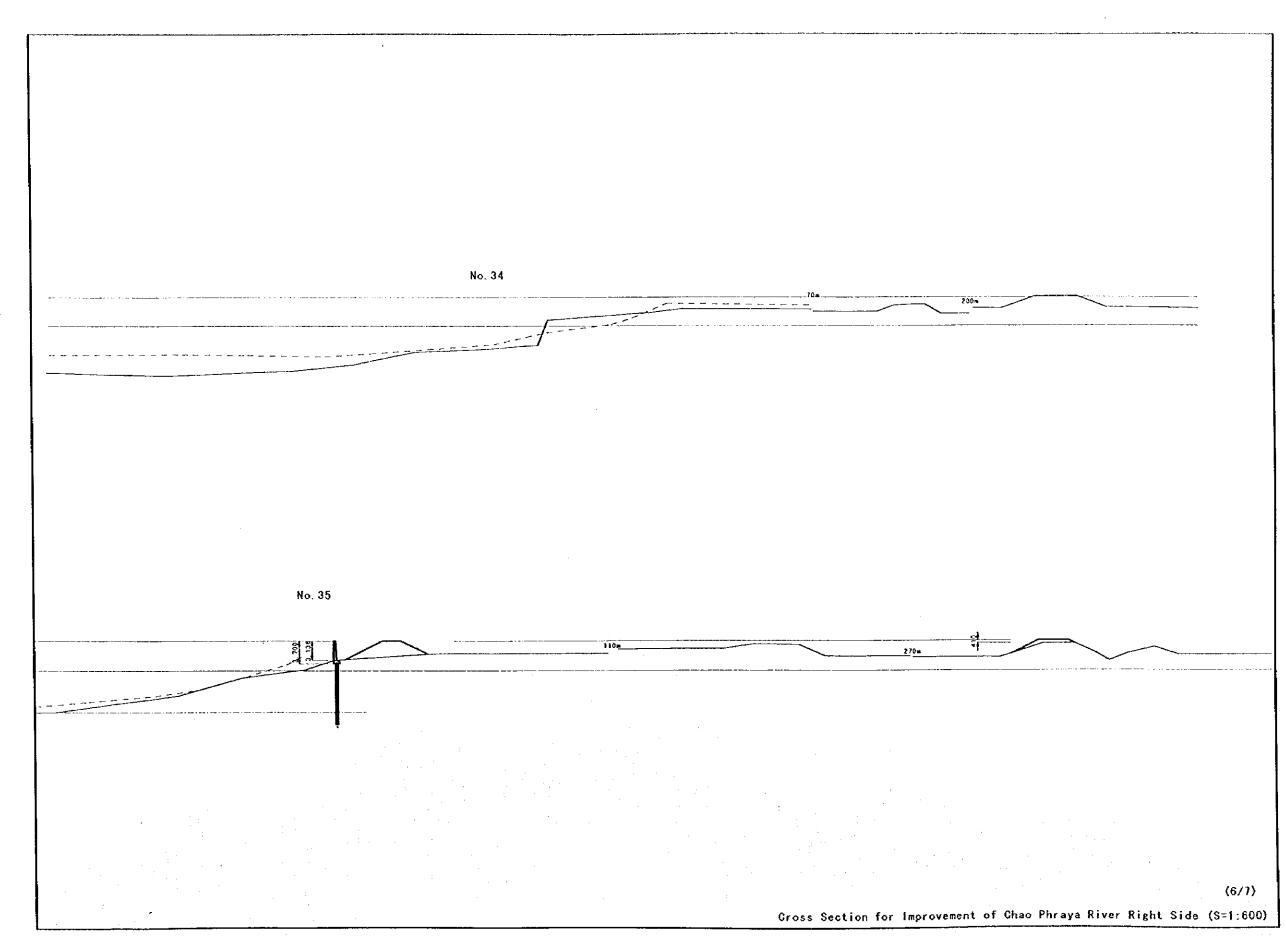
No. 34 No. 35 (6/6)
Cross Section for Improvement of Chao Phraya River Left Side (S=1:600)

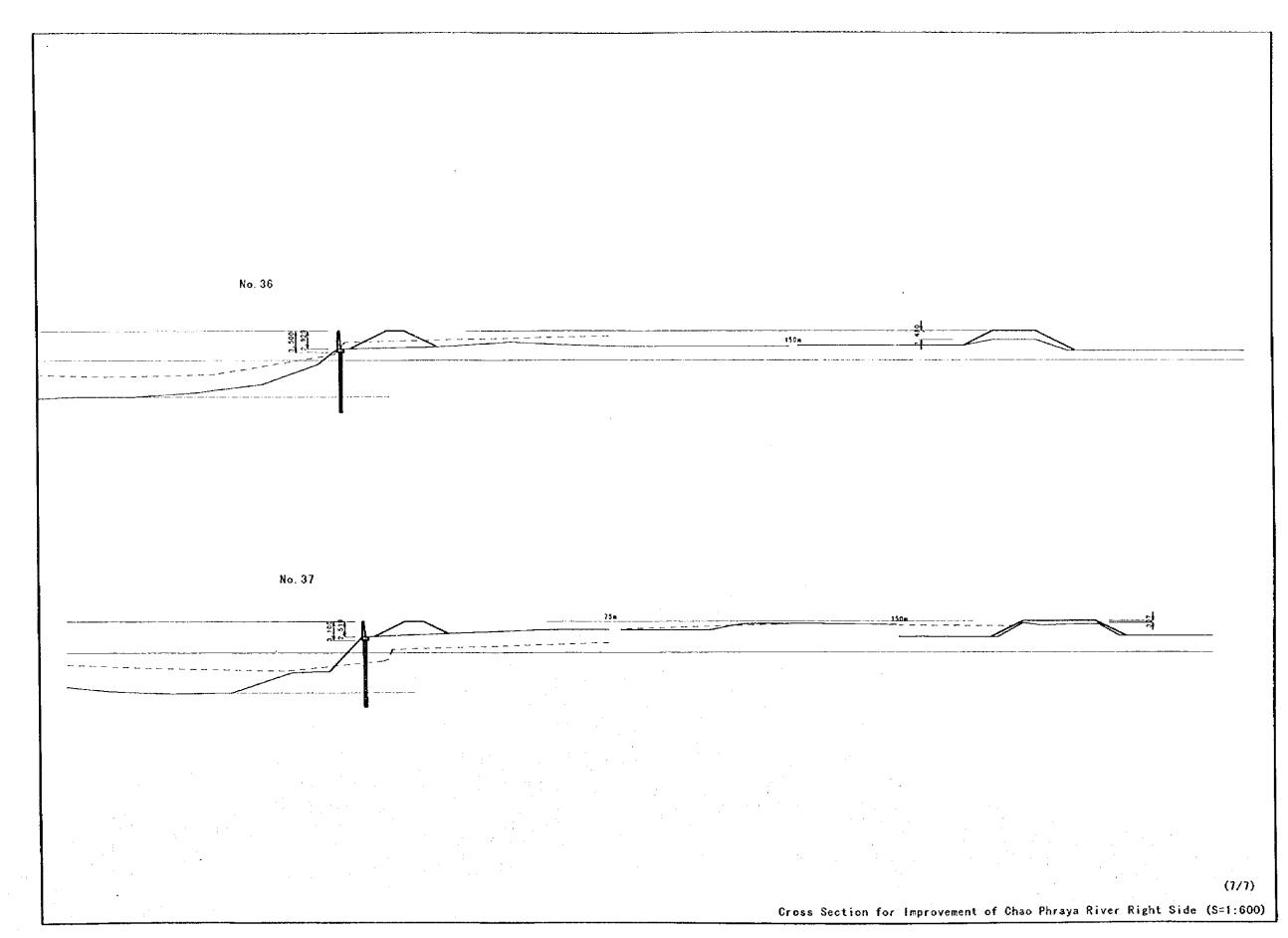


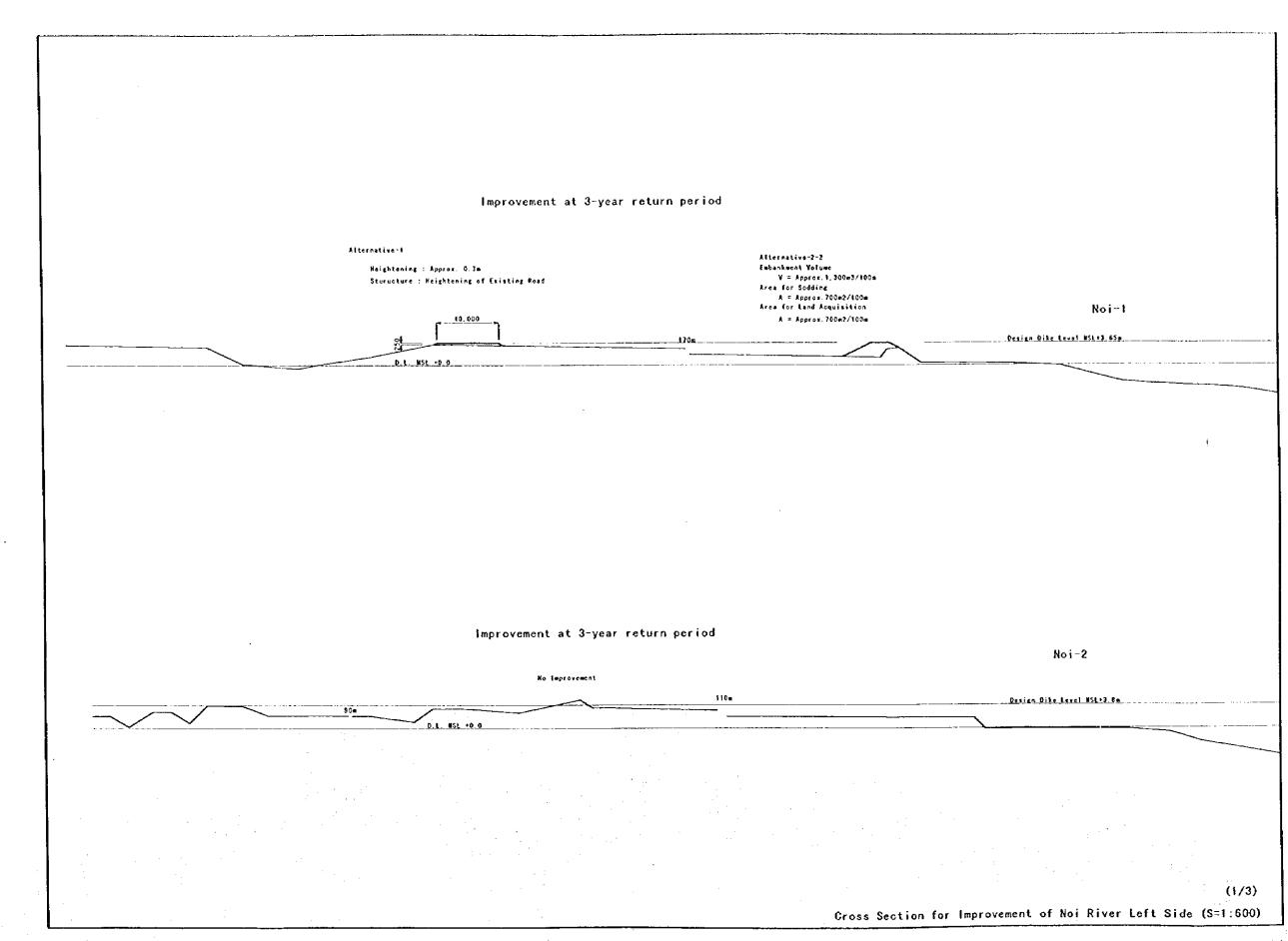


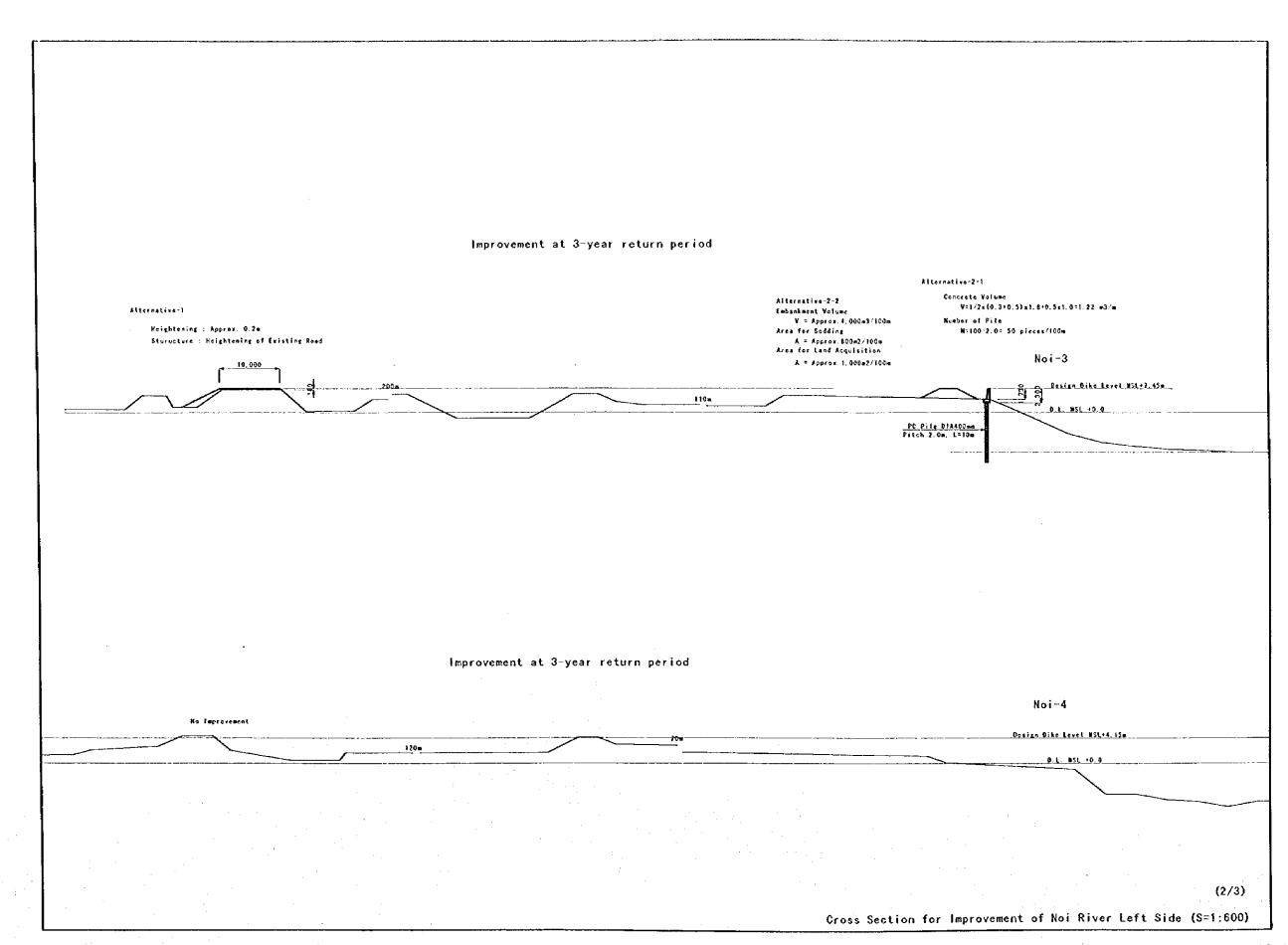












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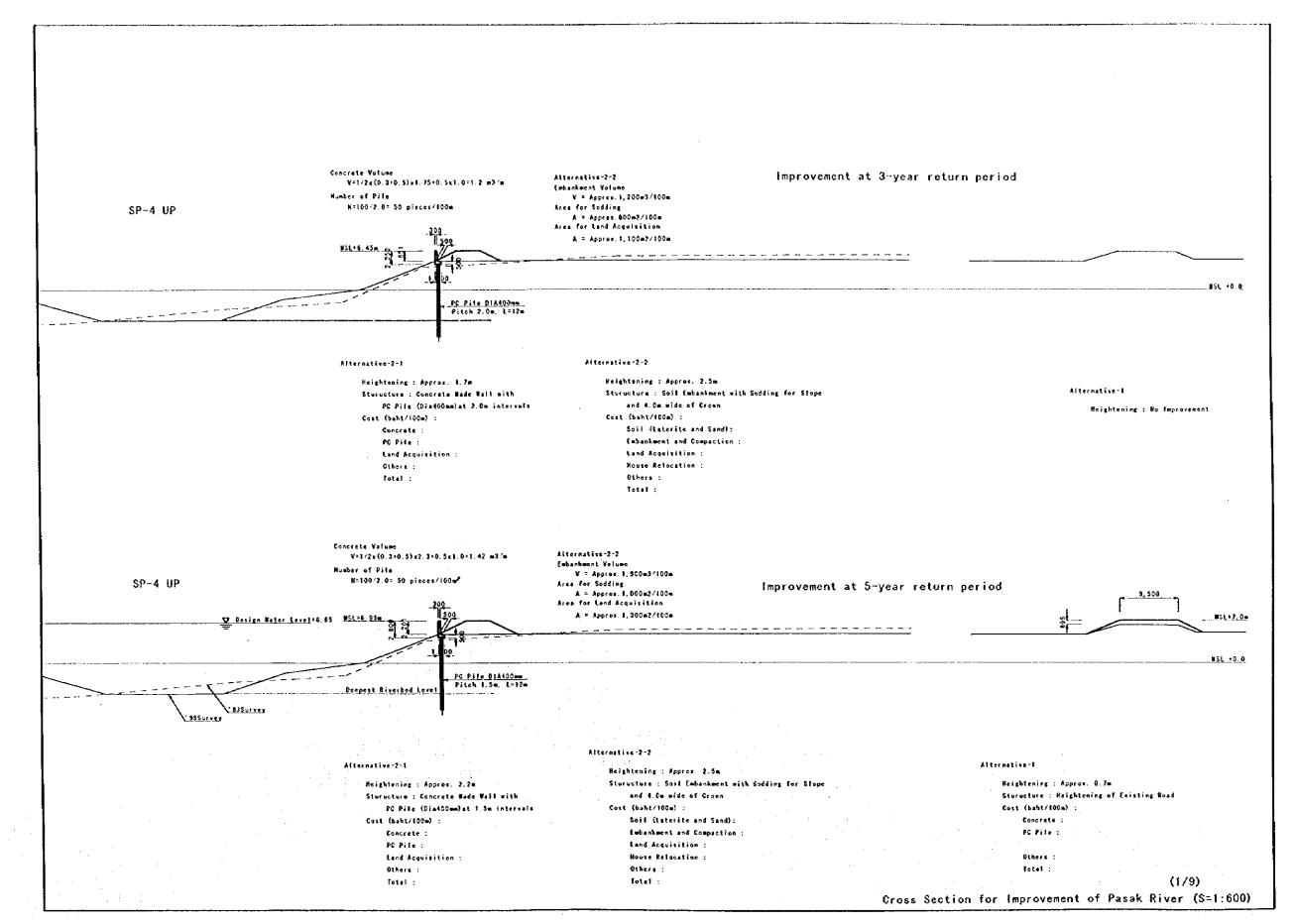
Improvement at 3-year return period Afternative-2-1 Alternative-1 Alternative=2-2 Concrete Valuma V=1/2x(0,3+6,5)x4,0+0,5x1,0+1,0x1,0x9,5/2=2,35 +3/m Embankment Valume

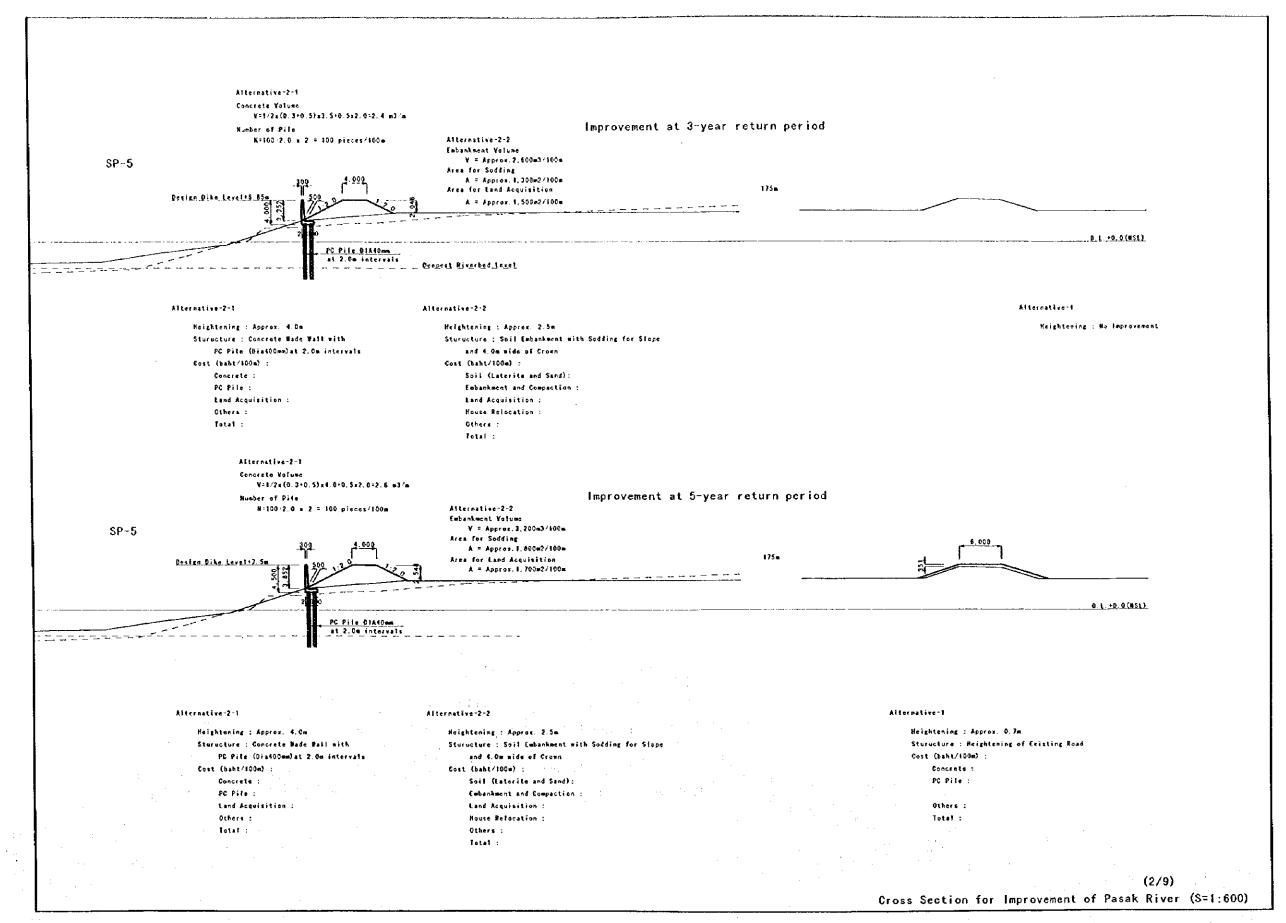
V = Approx. 3,000m1/100m

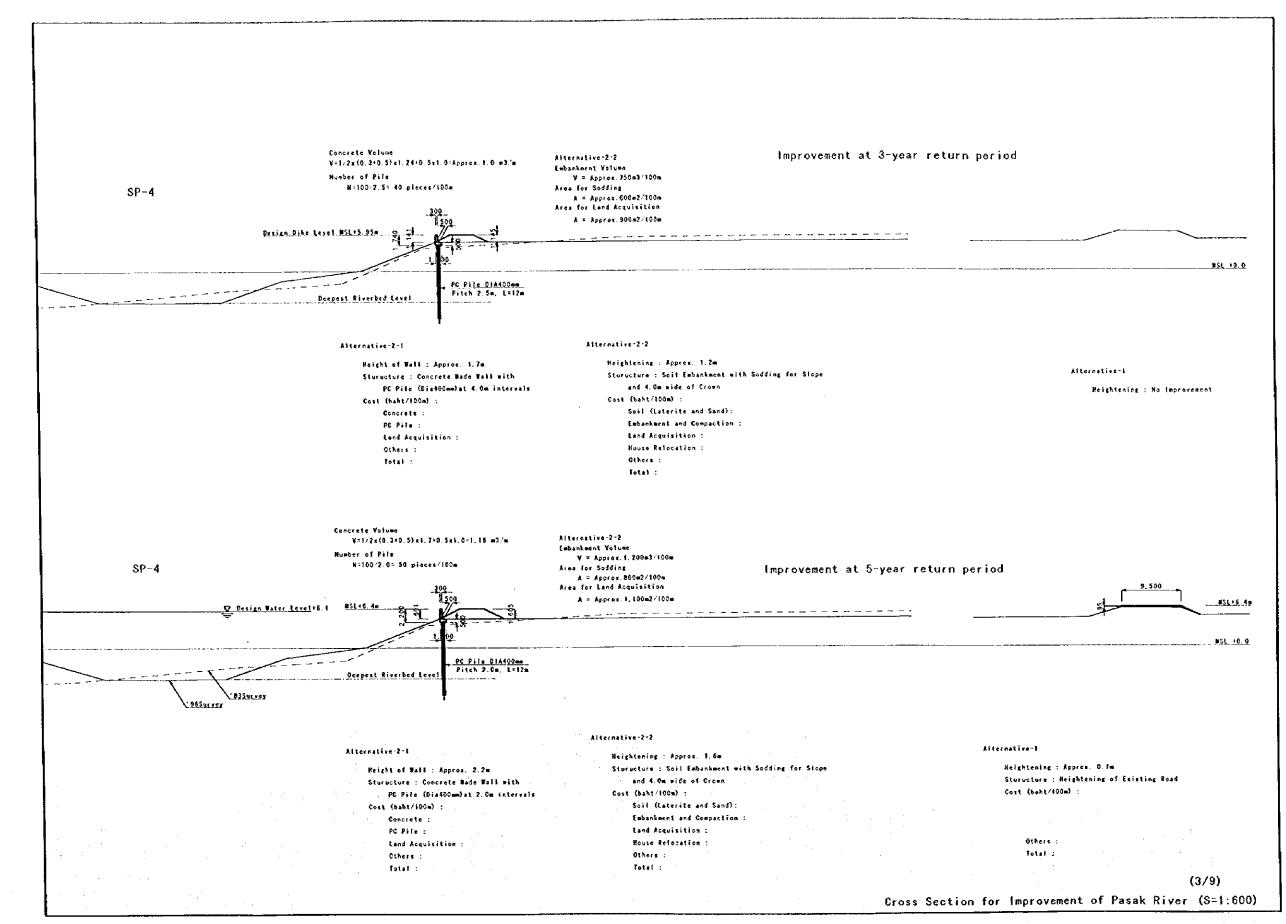
Area for Sodding

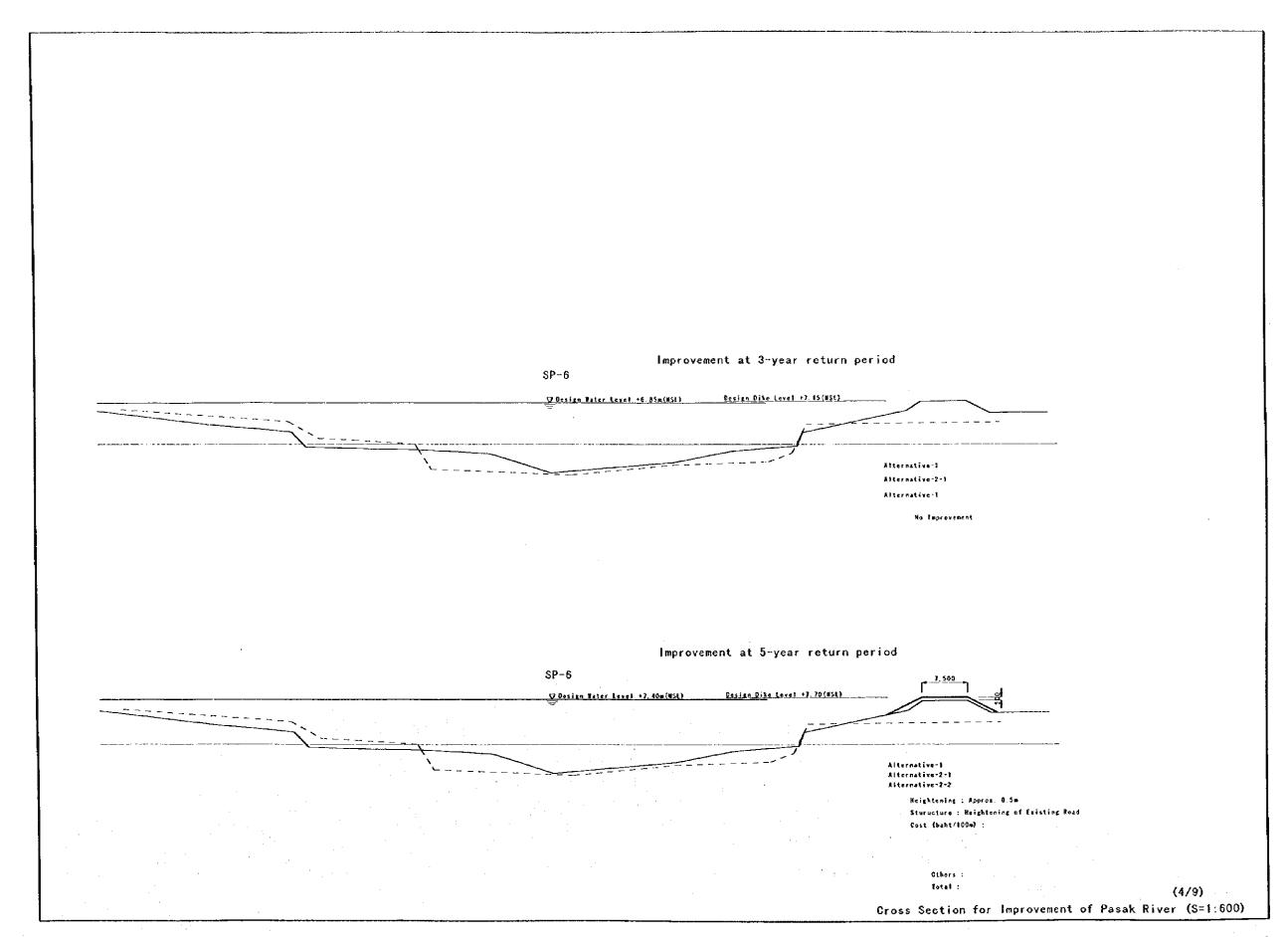
A = Approx. 1,500m2/(00m

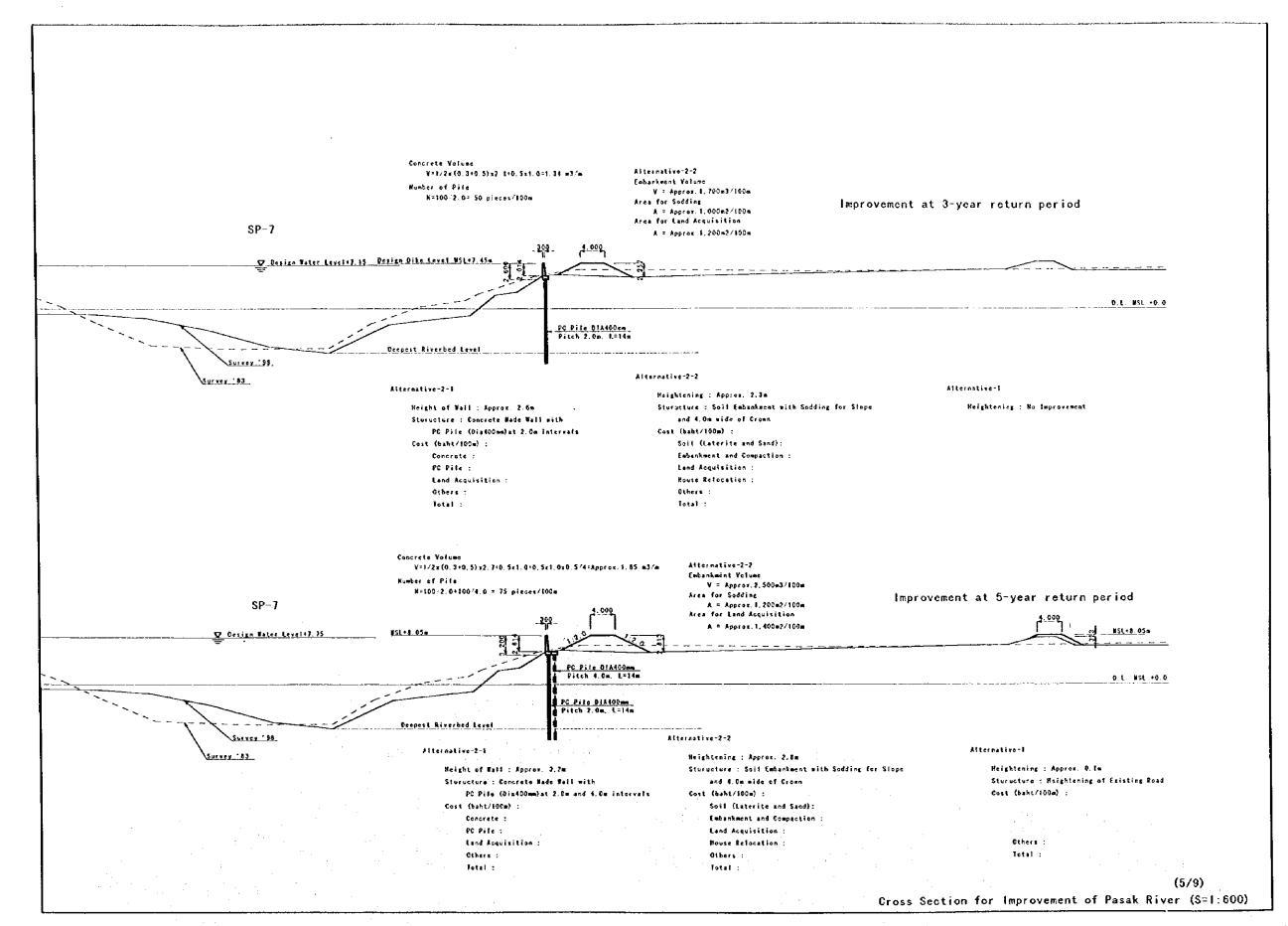
Area for Land Acquisition Reightening : Approx. 0.6m Sturucture : Heightening of Existing Road Number of Pile N=100-2.0x2= 100 pieces/100m Noi-5 A = Approx.1,600m2/100m Ossign Dike Level MSL+4, 45a Design Dike Level BSL+4.45m PC Pila 97A400pm Pitch 2.0m. L=7m (3/3) Cross Section for Improvement of Noi River Left Side (S=1:600)





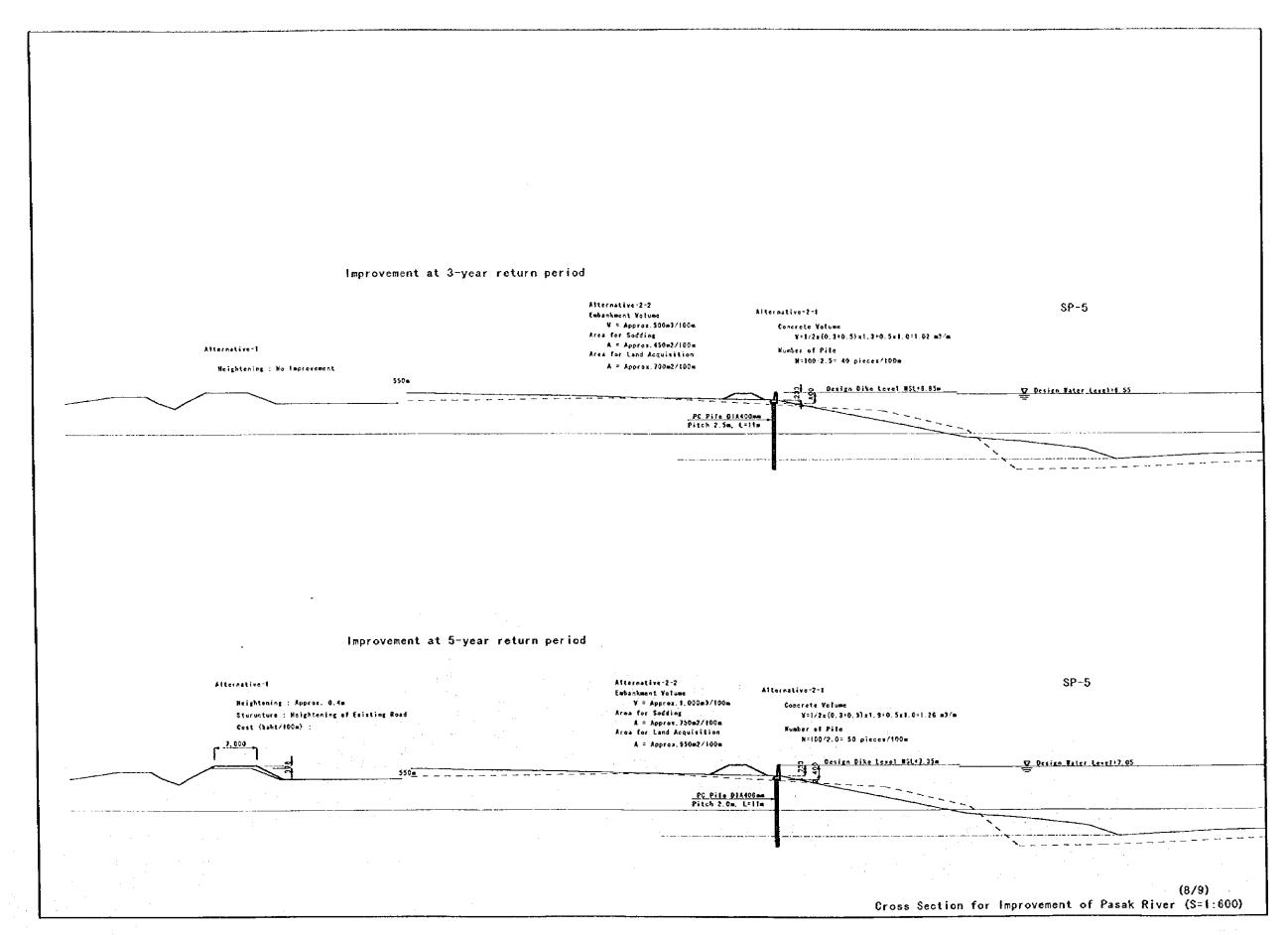


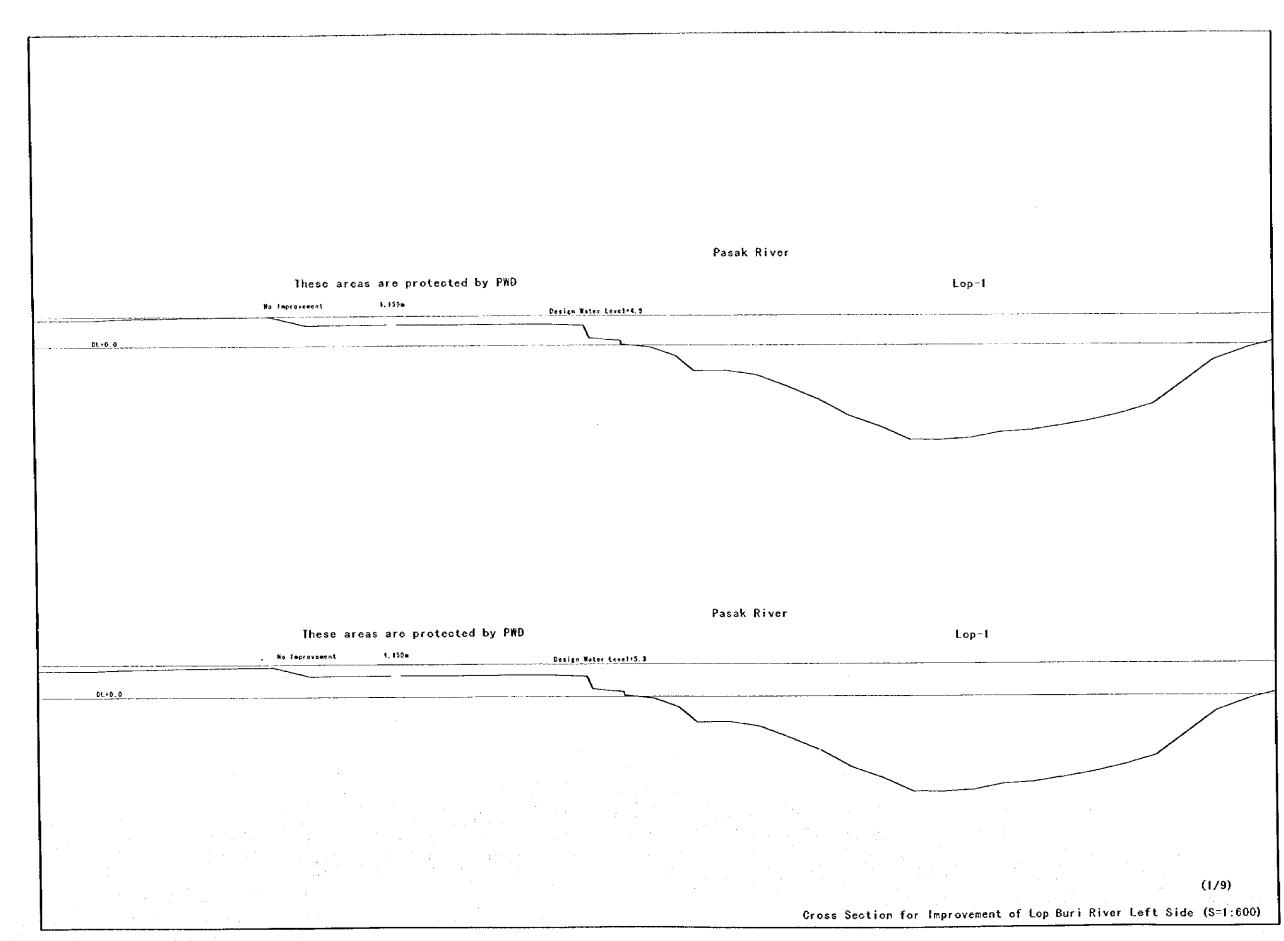




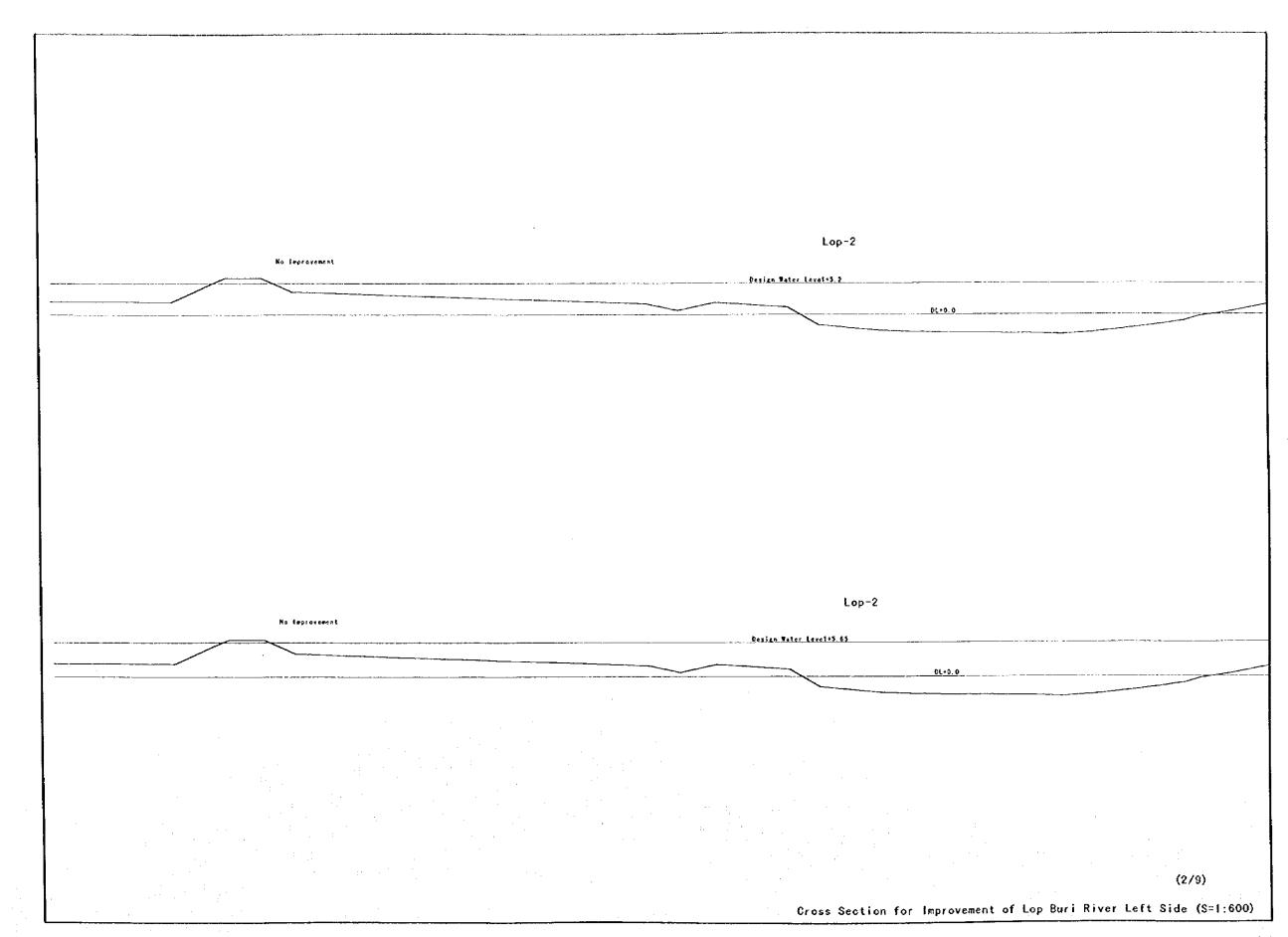
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Alternative-2-2
Embankment Volume
V = Approx.500m3/100m
Area for Sodding
A = Approx.450m2/100m
Area for land Acquisition Alternative-2-1 Concerte Votume V=1/2x(0.3+0.5)x1,0+0.5x1,0=0.5 a3/a Improvement at 3-year return period Number of Pile N=100/3.0= 33 pieces/100m SP-4UP 50m A = Approx. 700#2/190m design Dike Level MSL+6.45m Q Cosign Water Level+6.45 PC Pile B18400cm Pitch 3.0m, L=12m Alternativa-1 Heightening : No Improvement Improvement at 5-year return period Alternative-1 Atternative-2-2
Embankment Yolumo
Y = Approx.850m3/100m
Area for Sodding
A = Approx.650m2/100m
Area for Land Acquisition Alternative-2-1 Heightening : Approx. 0.4m Concrete Volume V=1/2x(0,3+0,5)x1,5+0,5x1,0=1,1 m3/m Sturucture: Heightening of Emisting Road Cost (baht/800m); SP-4UP Number of Pite N=100/2.0= 50 pieces/100m A = Approx.900e2/100m Besign Dife Level BSL+6. 95m Design Water Level+6.65 0.L. 1SL +0.0 PC Pile BrA400mm Pitch 2 Dm, L-12m (7/9)Cross Section for Improvement of Pasak River (S=1:600)





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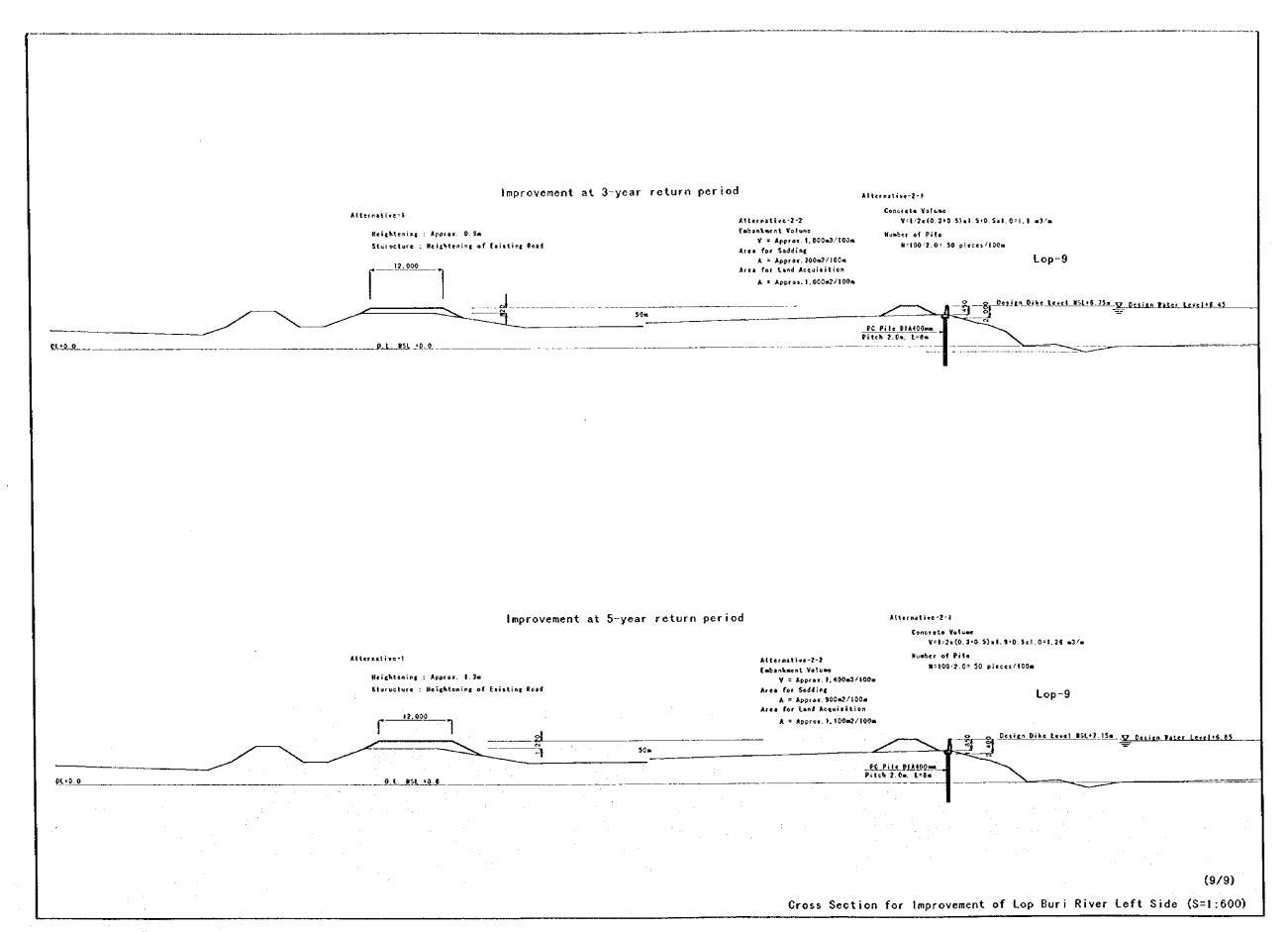
Lop-3 Na Emprovement Lop-3 No Improvement DL+0.0 (3/9) Cross Section for Improvement of Lop Buri River Left Side (S=1:600)

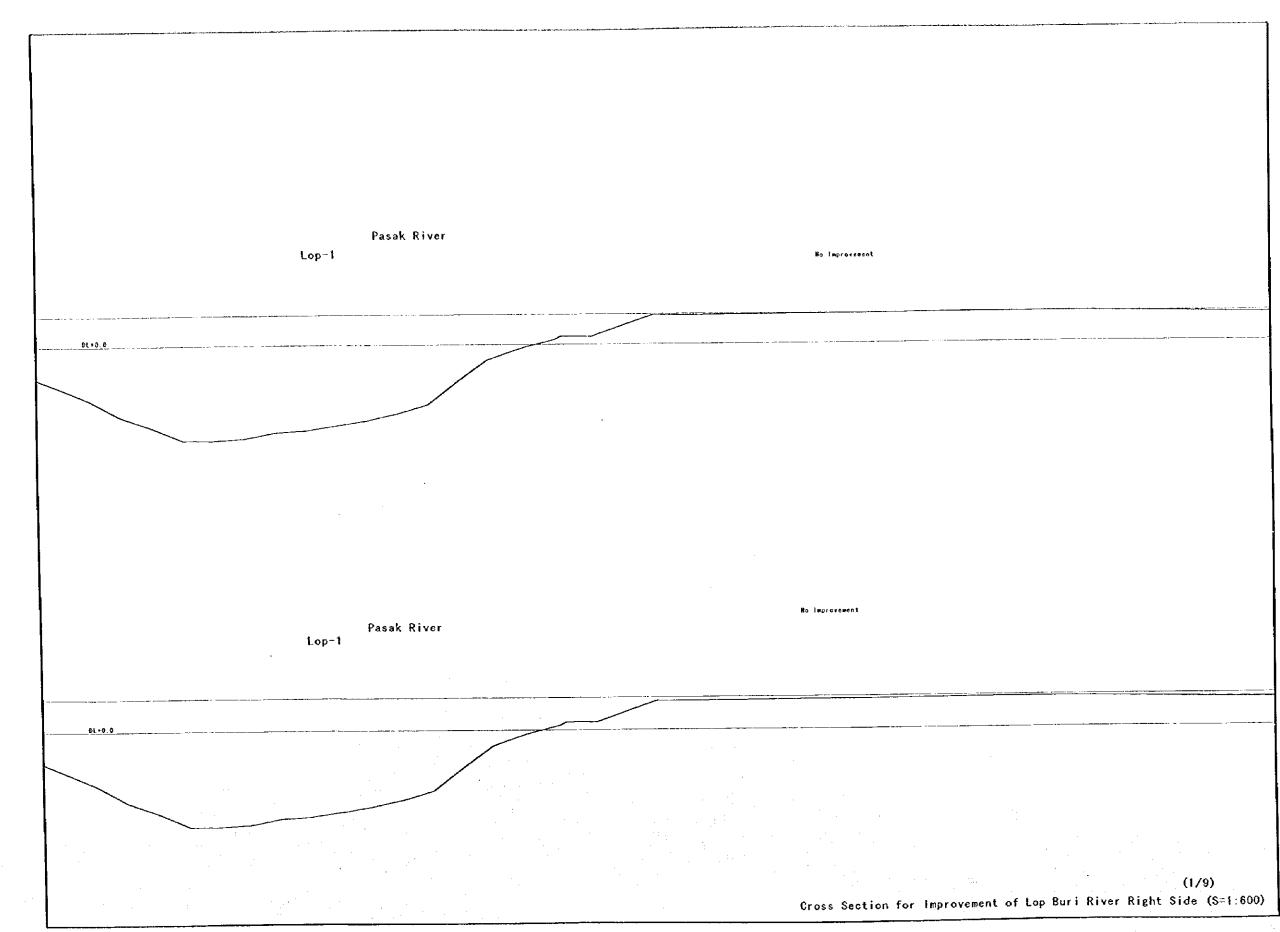
Improvement at 3-year return period Alternative-1 Heightening : Approx. 0.1m Alternative-2-2 Sturucture: Meightening of Existing Road Embankment Volume Alternative=2-1 Y = Approx. 900m3/100m Area for Sodding A = Approx. 700m2/100m Area for Land Acquisition Concrete Vatuma V=1/2x(0,3+0.5)x1.5+0.5x1.0=1.1 e3/s Lop-4 Number of Pile N=100/2.0= \$0 pieces/400m A = Approx.900m2/100m Desiro Dike Level #51+5, 65a Design Dike Level MSL+5.85m O Design Water Level+5.55 PC Pile D1A400mm Pilch 2.0m, L=6m Improvement at 5-year return period Alternative-F Alternative-2-2 Heightening : Approx. 0.6m Embankment Volume V = Approx.1,400m3/100m Alternative-2-1 Sturucture : Beightening of Existing Road Concrete Volume V=1/2e(0,3+0,5)e1.5+0.5x1.0=1.26 m3/m Area for Sodding

A = Approx.900m2/100m

Area for Land Acquisition Number of Pile A = Approx. 1, 100=2/100= N=100/2.0= 50 pieces/100m Design Dike Level BSt+8.3m O Design Mater Level+6, 00 180a PC Pile D(A400mm Pitch 2.0m. L=8m p.t. #SL +0.0 (4/9)Cross Section for Improvement of Lop Buri River Left Side (S=1:600)

Improvement at 3-year return period Lop-5 No Improvement Ocsign Dike Revel MSL+6 15a ____ Design Water Level+5, 85 DL 0.0 Improvement at 5-year return period Alternative-2-1 Concrete Yolume Y=1/2±(0,3+0.5)±3,7+0.5±1.0+1.0±1.0/2=2.48 m3/m Alternative-2-2 Atternative-2-2
Embankment Volume
V = Approx.3,800m3/100m
Area for Sodding
A = Approx.1,700m2/100m
Area for Land Acquisition Alternative-1 Number of Pile N=100/2.0 m 2= 100 pieces/100m Heightening : Approx. 0.4m Sturucture : Neightening of Existing Road Lop-5 A = Approx. 8,800m2/100m Dasign Dike Level BSL+6.7m Design Water Level+6.4 PL+0.0 (5/9)Cross Section for Improvement of Lop Buri River Left Side (S=1:600)





Improvement at 3-year return period Lop-2 No Improvement Design Dike Level WSt+5-2m Improvement at 3-year return period Lop-2 Na l'aprovement 0. L. BSL +0.0 (2/9) Cross Section for Improvement of Lop Buri River Right Side (S=1:600)

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