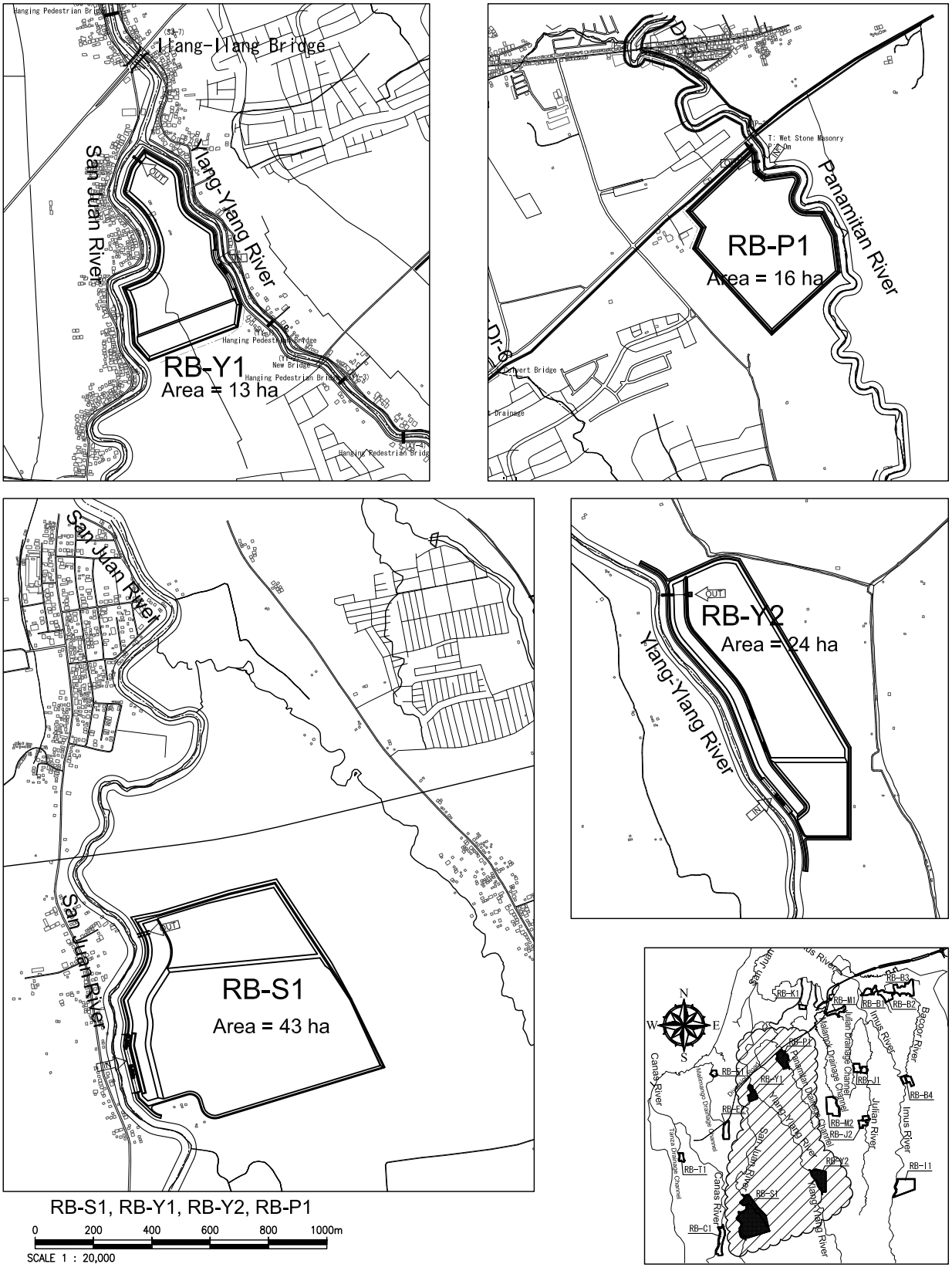
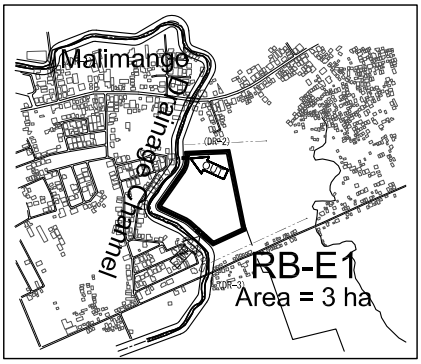
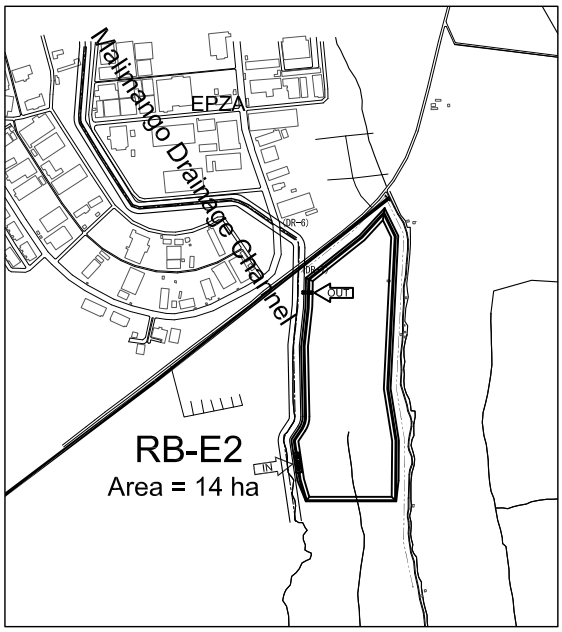
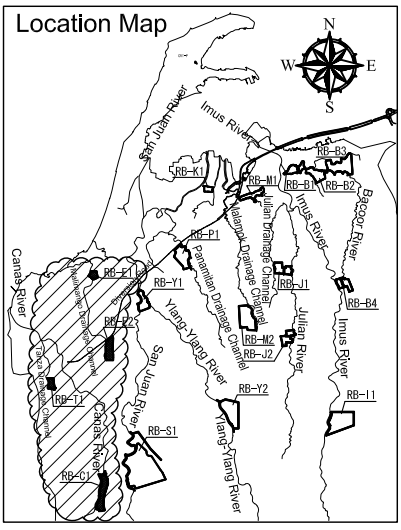


THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.27 遊水地及び内水調整池の配置計画 (3/4) San Juan/Ylang-Ylang川流域 (河川洪水対策10年、内水対策2年確率対応時)
CTI Engineering International Co., Ltd. Nippon Koei Co., Ltd	





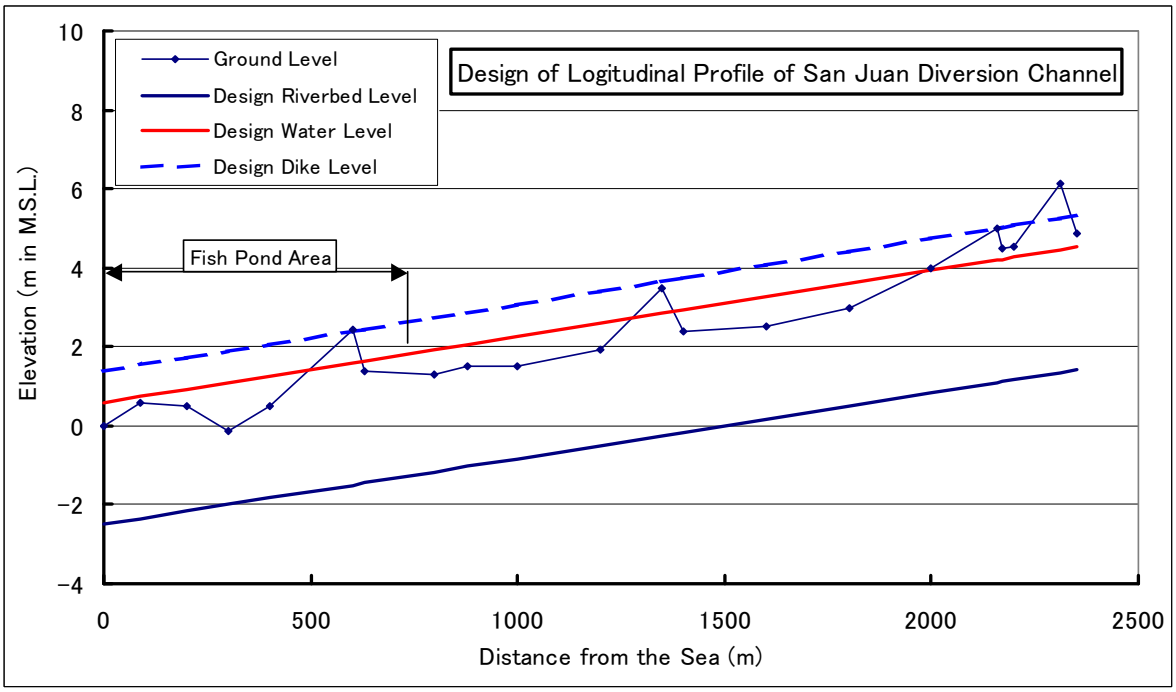


RB-E1, RB-E2 (for 2-year Return Period Flood)

0 200 400 600 800 1000m

SCALE 1 : 20,000

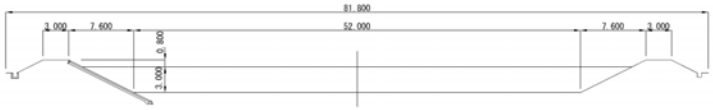
THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.28 遊水地及び内水調整池の配置計画（4/4） Rosario/General Trias内水地区 (河川洪水対策10年、内水対策2年確率対応時)
CTI Engineering International Co., Ltd. Nippon Koei Co., Ltd	



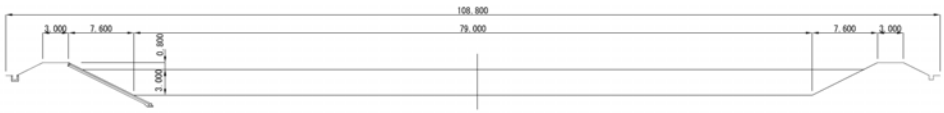
Typical Cross Section of
San Juan Diversion Channel
230m3/s (20-year with Retarding Basin)

Typical Cross Section of
San Juan Diversion Channel
260m3/s (5-year)

Typical Cross Section of
San Juan Diversion Channel
470m3/s (10-year)

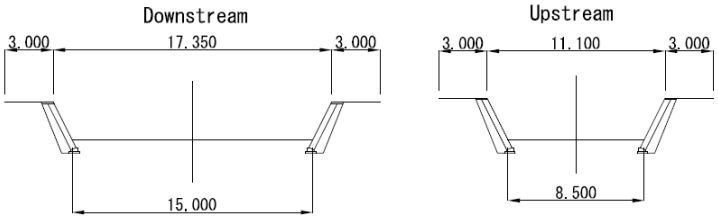


Typical Cross Section of
San Juan Diversion Channel
710m3/s (20-year)

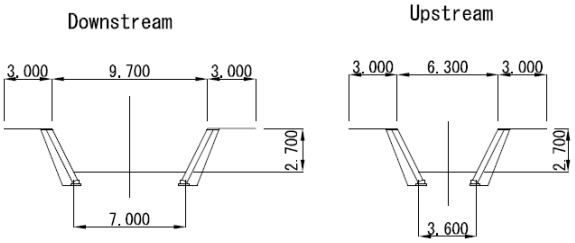


THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.29 提案 San Juan 放水路の計画縦断及び標準断面図
CTI Engineering International Co., Ltd. Nippon Koei Co., Ltd	

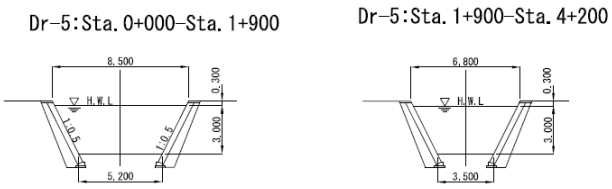
Standard Cross Section for Dr-1 (2-year)



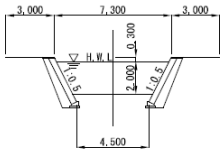
Standard Cross Section for Dr-2 (2-year)



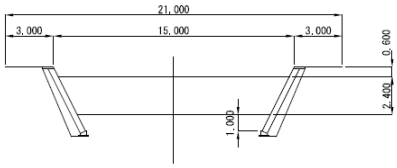
Standard Cross Section for Dr-5 (2-year)



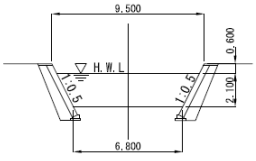
Standard Cross Section for Dr-8 (2-year)



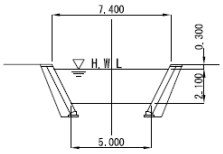
Standard Cross Section for Dr-9 (2-year)



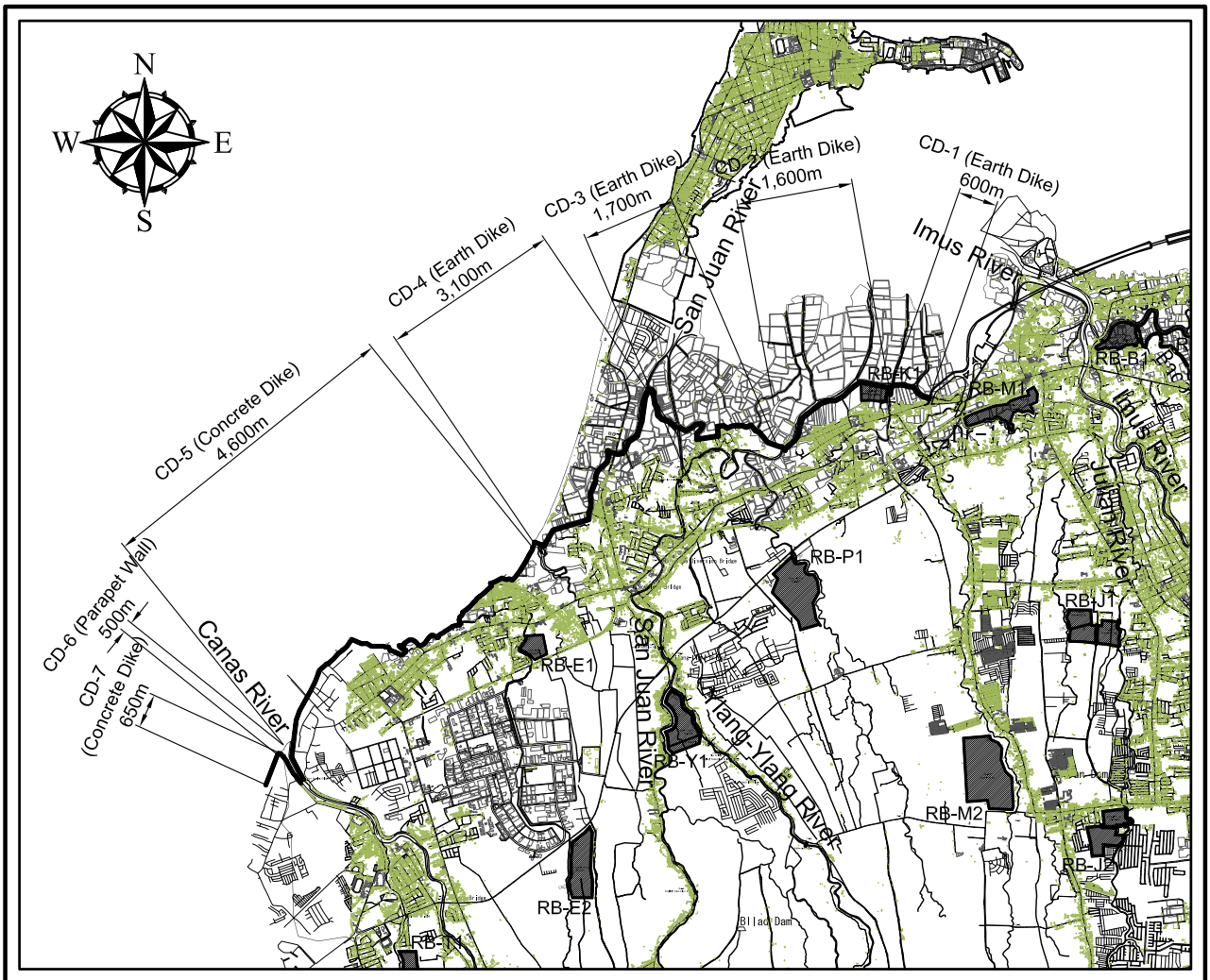
IT-2:Sta.0+000-Sta.1+500



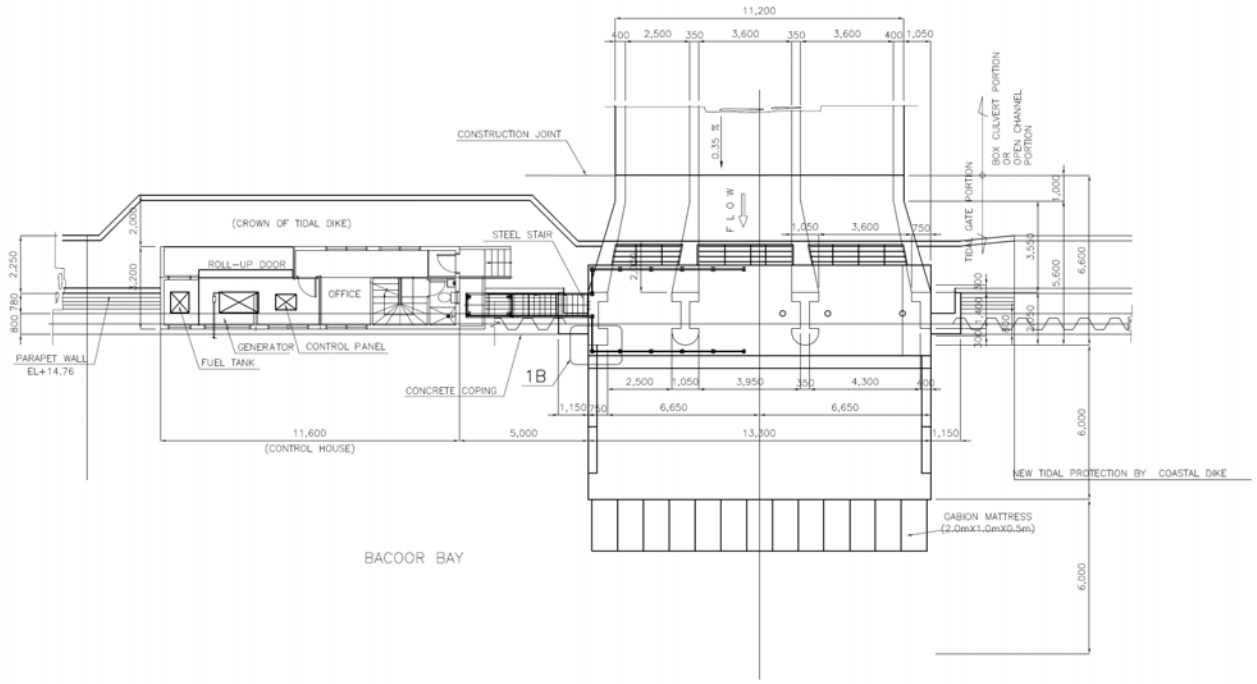
IT-2:Sta.1+500-Sta.3+100



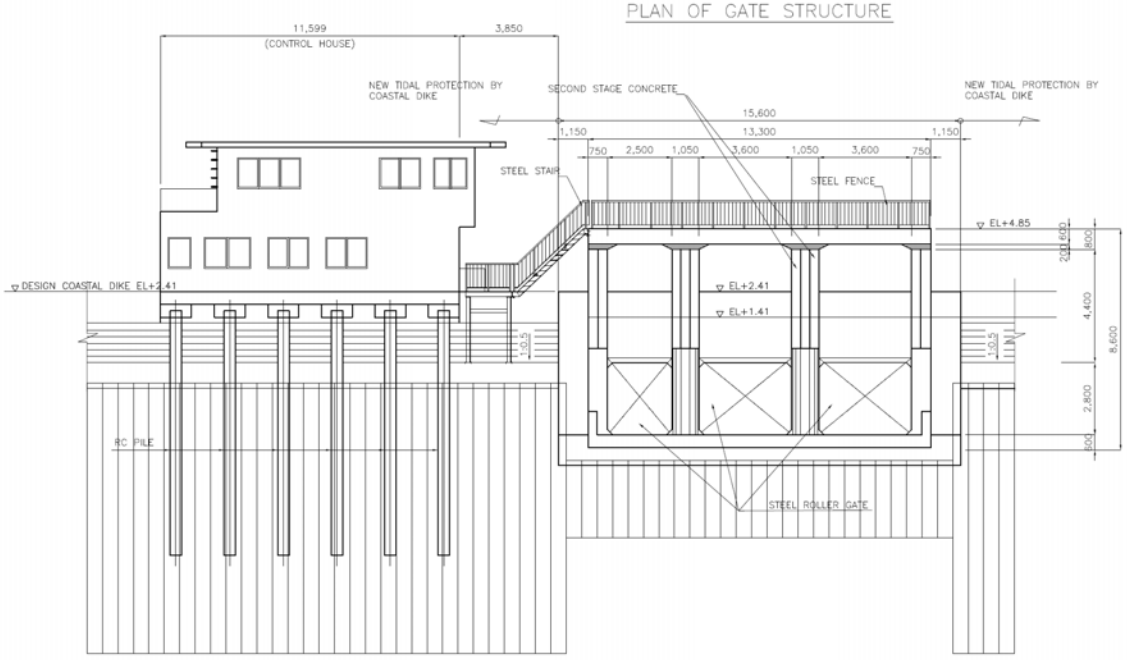
THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.30 内水排水路改修計画標準断面図
CTI Engineering International Co., Ltd. Nippon Koei Co., Ltd	



THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.31 提案海岸堤防詳細線形及び標準断面図
CTI Engineering International Co., Ltd. Nippon Koei Co., Ltd	

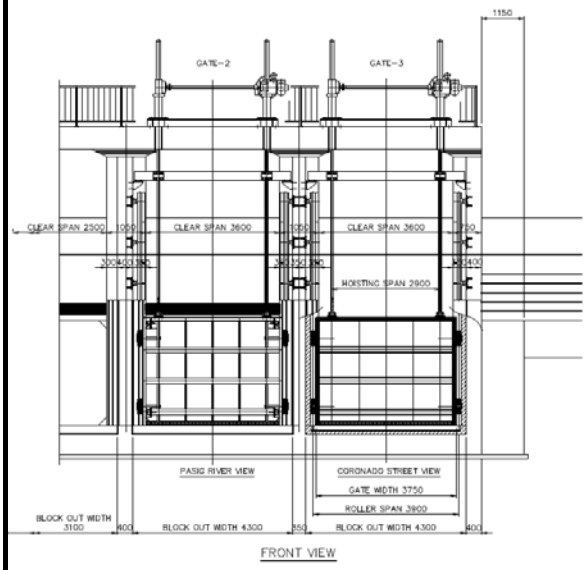


PLAN OF GATE STRUCTURE

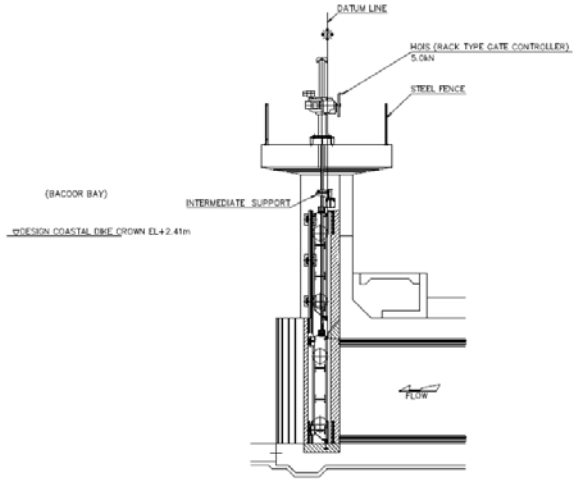


TYPICAL ELEVATION OF
PROPOSED TIDAL GATE

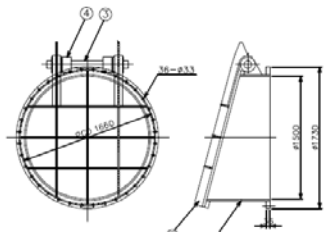
THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.32 内水排除のための大型防潮ゲート 標準平面・立面図
CTI Engineering International Co., Ltd. Nippon Koei Co., Ltd	



FRONT VIEW

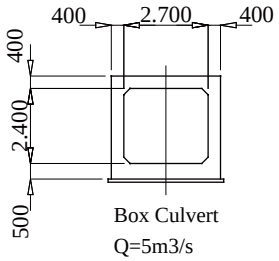


SIDE VIEW

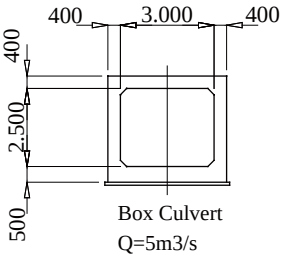


SPECIFICATION		
FLAP VALVE		
DIAMETER		1500 mm
FLANGE		JIS 5K
MATERIAL		
1	BODY	Fabricated Steel
2	DISC	Fabricated Steel
3	STEM	Stainless Steel
4	BUSHING	Stainless Steel
QUANTITY		5 Sets

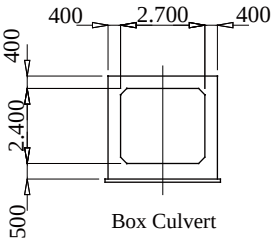
THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.33 内水排除のための防潮ゲート 及びフラップゲート一般図
CTI Engineering International Co., Ltd. Nippon Koei Co., Ltd	



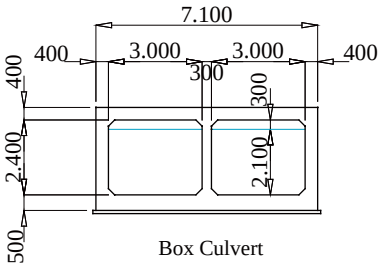
Box Culvert
Q=5m3/s
I=1/1000
B=2.7mx 1nos.



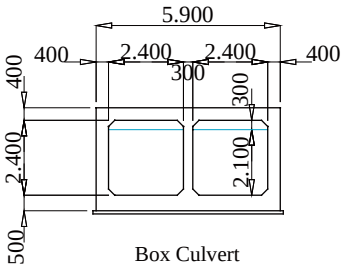
Box Culvert
Q=5m3/s
I=1/1500
B=3.0mx 1nos.



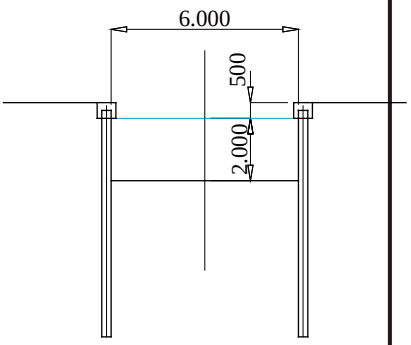
Box Culvert
Q=5m3/s
I=1/1000
B=2.7mx 1nos.



Box Culvert
Q=10m3/s
I=1/2000
B=3mx 2nos.

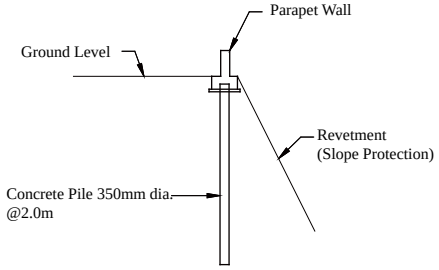


Box Culvert
Q=10m3/s
I=1/1500
B=3mx 2nos.

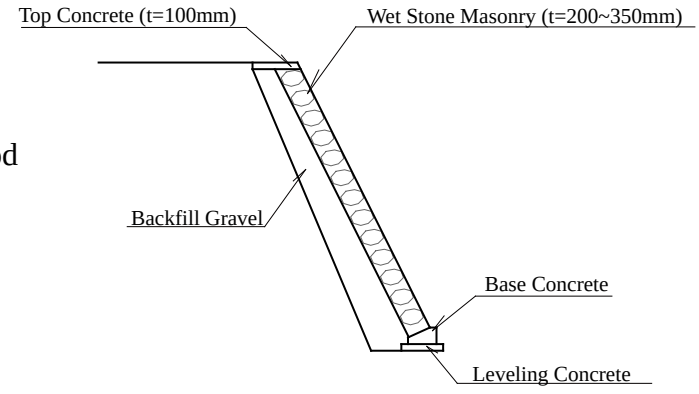


Open Channel
Q=10m3/s
I=1/2000
B=6m

Typical Section of Box Culvert and Open Channel
for Drainage Main and Inter Ceptor

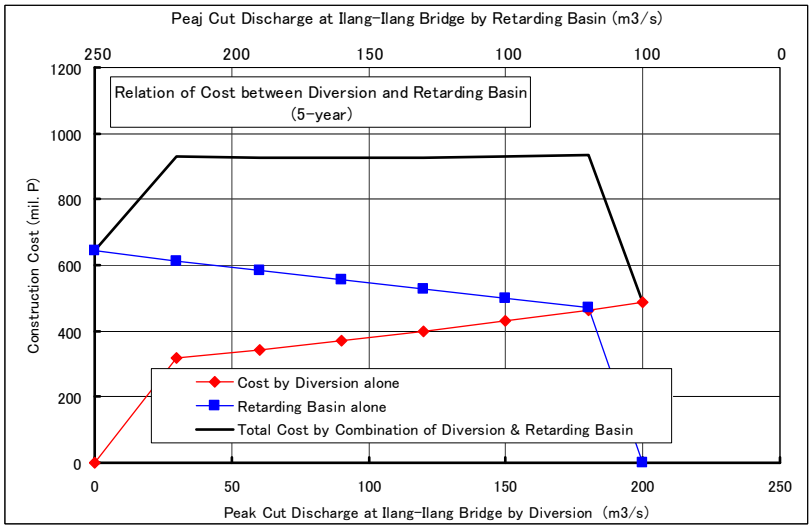


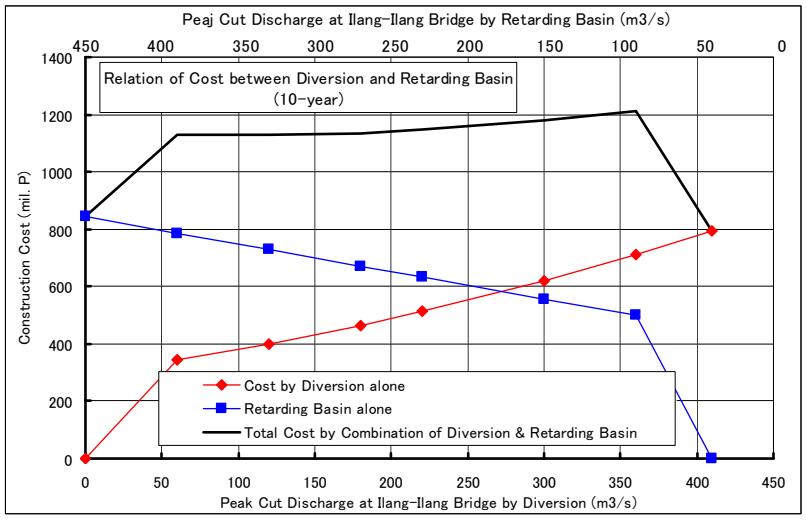
Parapet Wall for Overtopping Flood

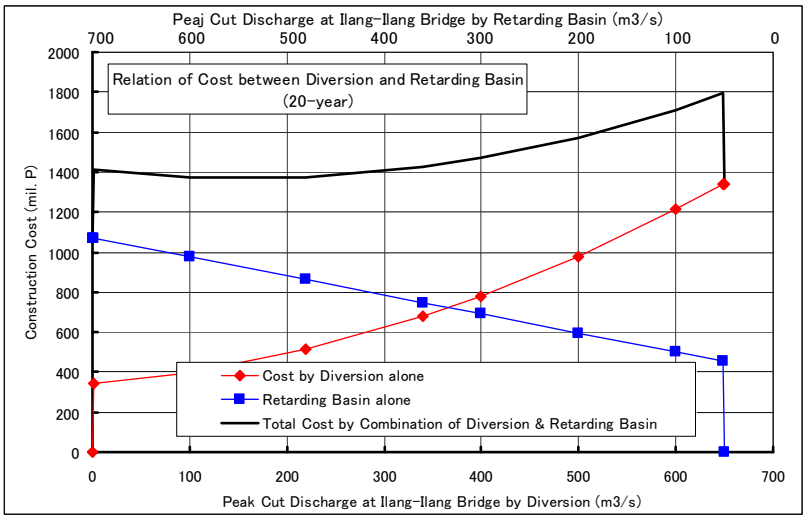


Typical Cross Section of
Bank Slope Protection

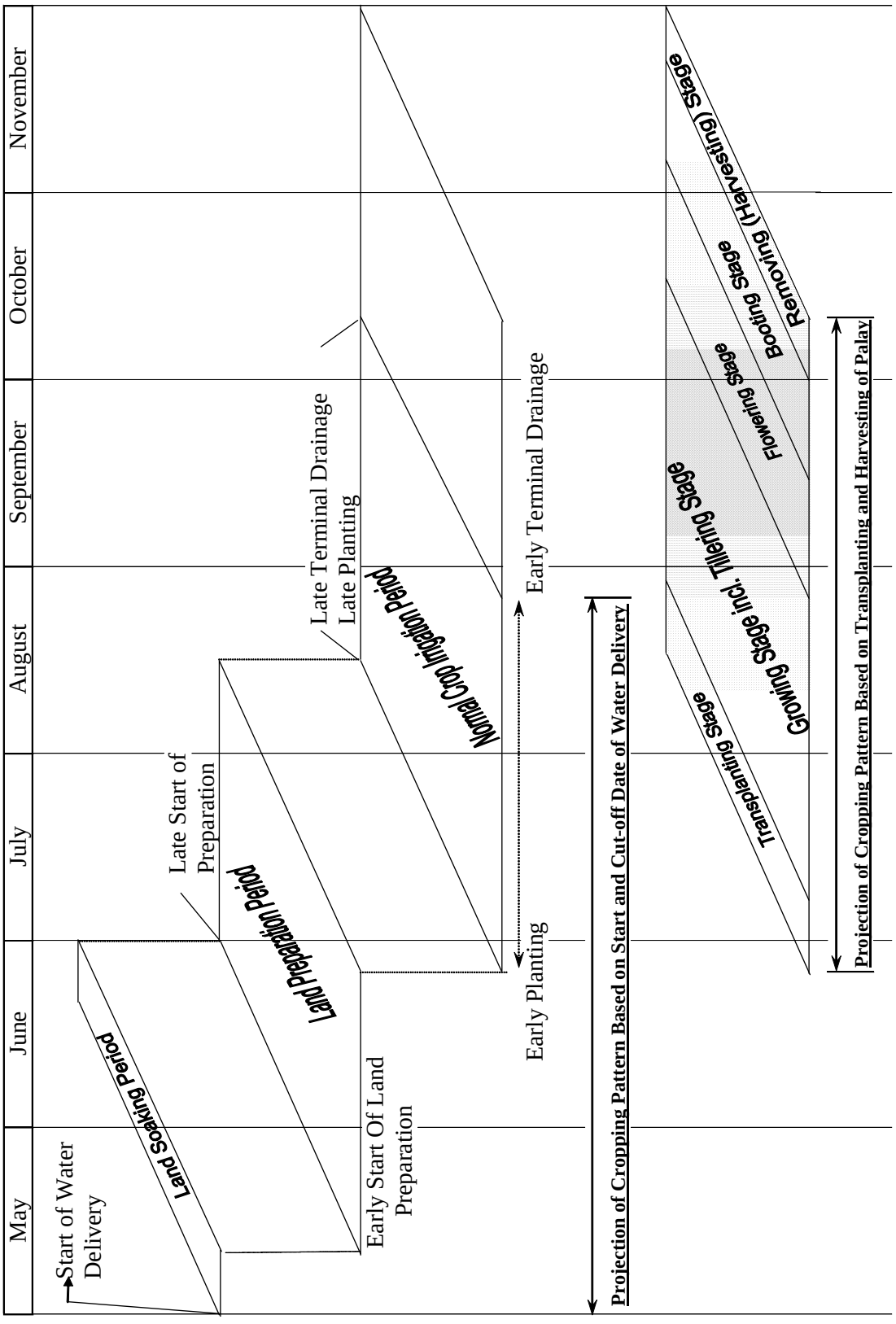
THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.34 内水排除対策における各水路構造物 改修計画標準断面図
CTI Engineering International Co., Ltd Nippon Koei Co., Ltd	







THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.35 San Juan 川流域河川洪水対策における遊水地、放水路及びその複合案におけるコストの比較
CTI Engineering International Co., Ltd. Nippon Koei Co., Ltd	



THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR CAVITE LOWLAND AREA	図 8.36 カビテ州における典型的な 2 期作 クロッピングパターン
CTI Engineering International Co., Ltd. Nippon Koei Co., Ltd	