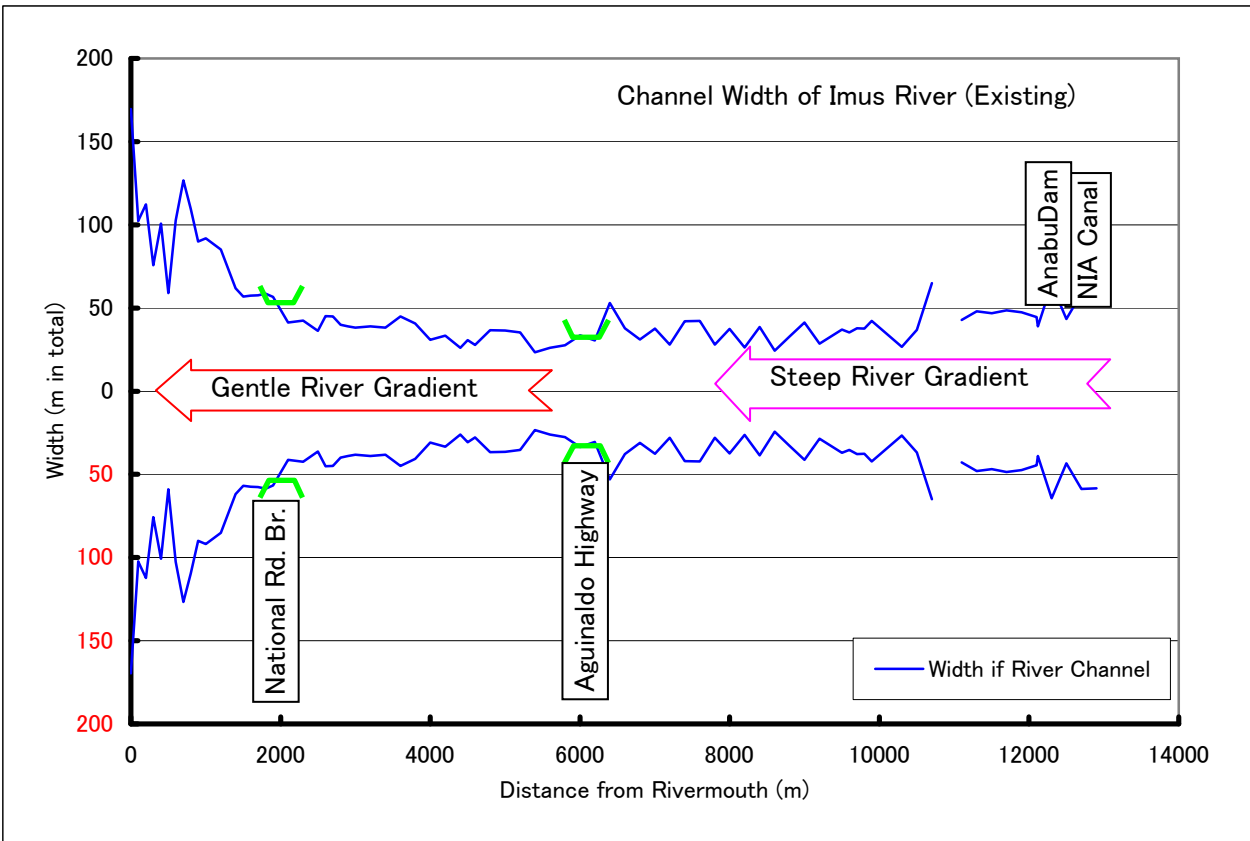
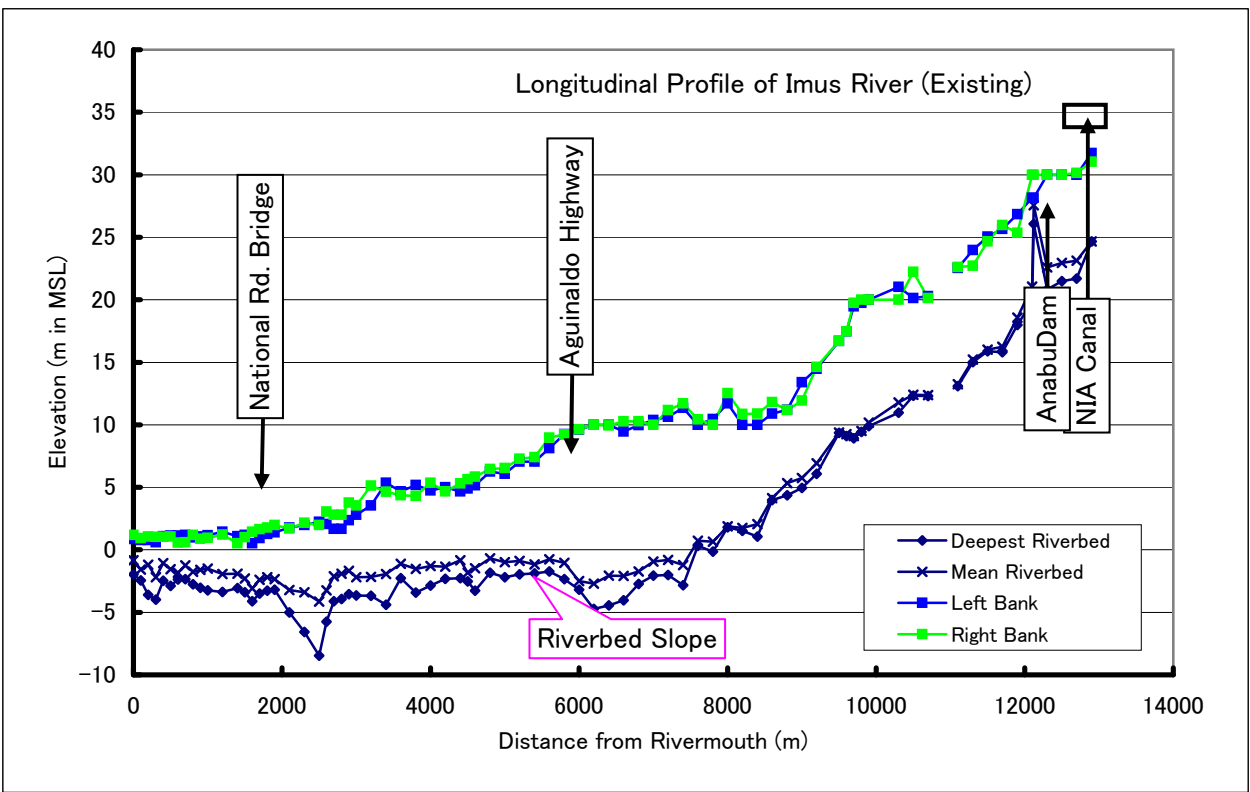


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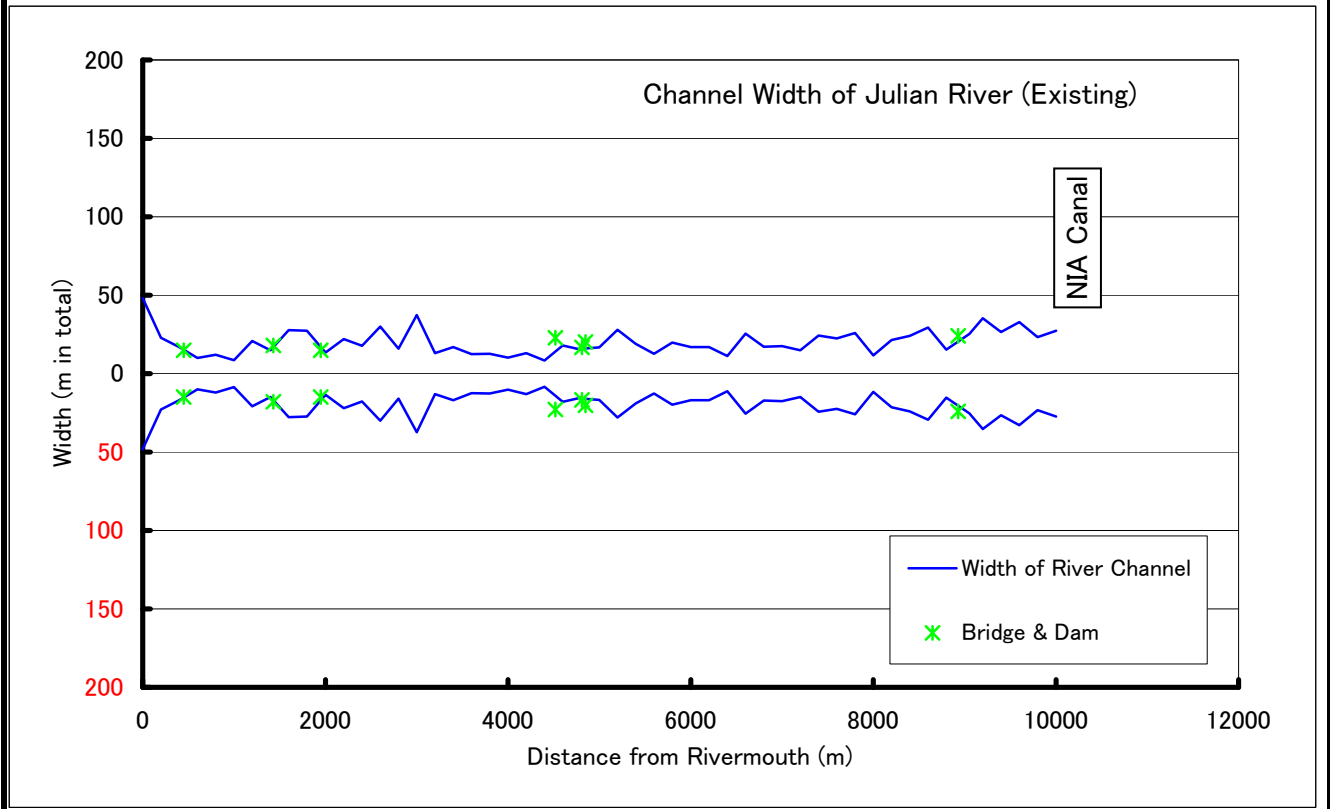
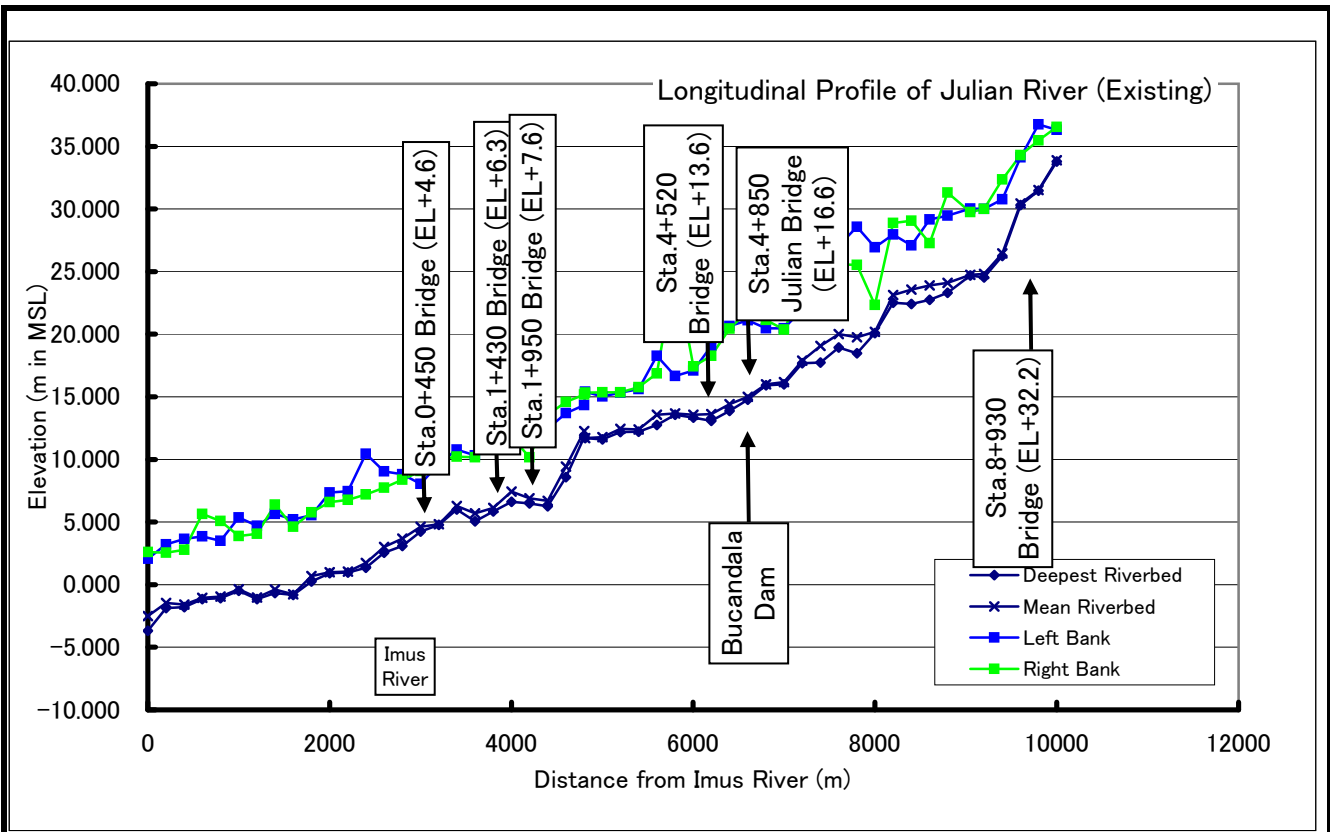
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図 6.1
 カビテ州による新固形廃棄物処理計画における
 最終処分地と中継基地 (RMF) 決定地



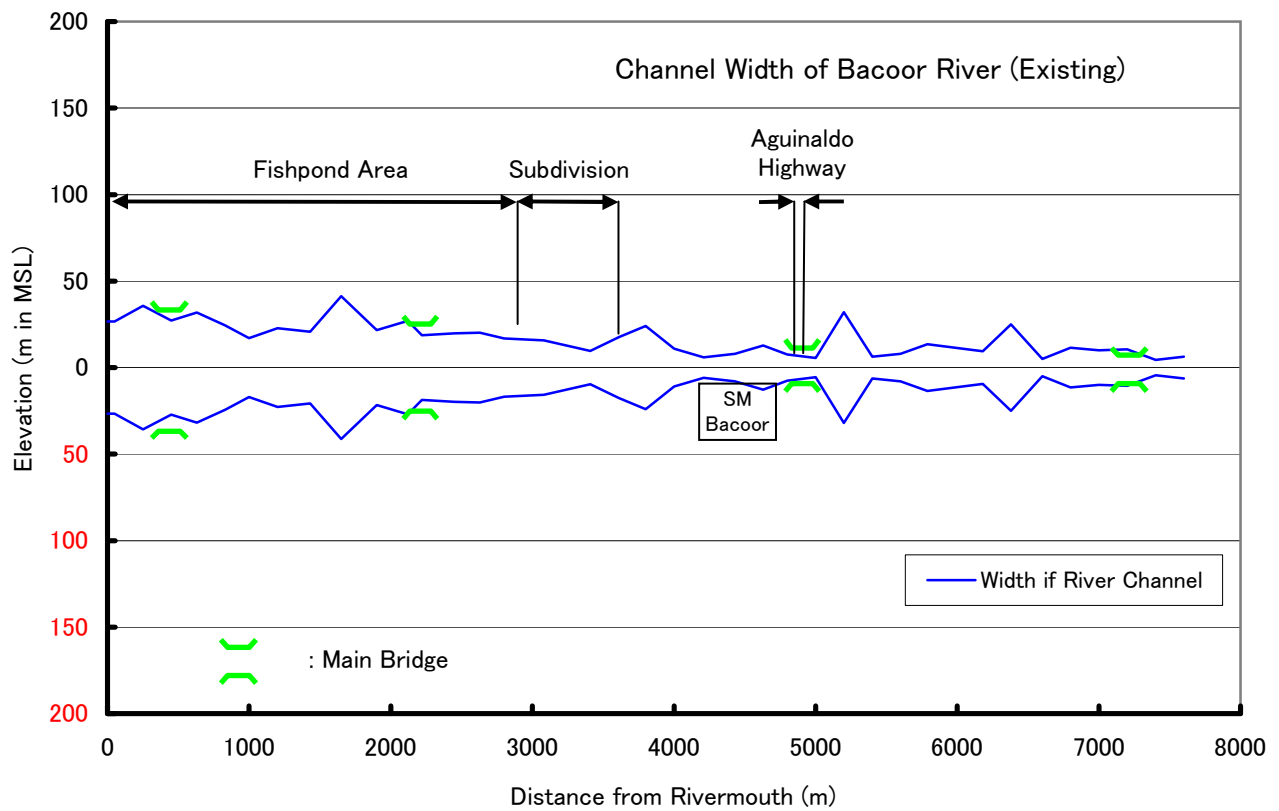
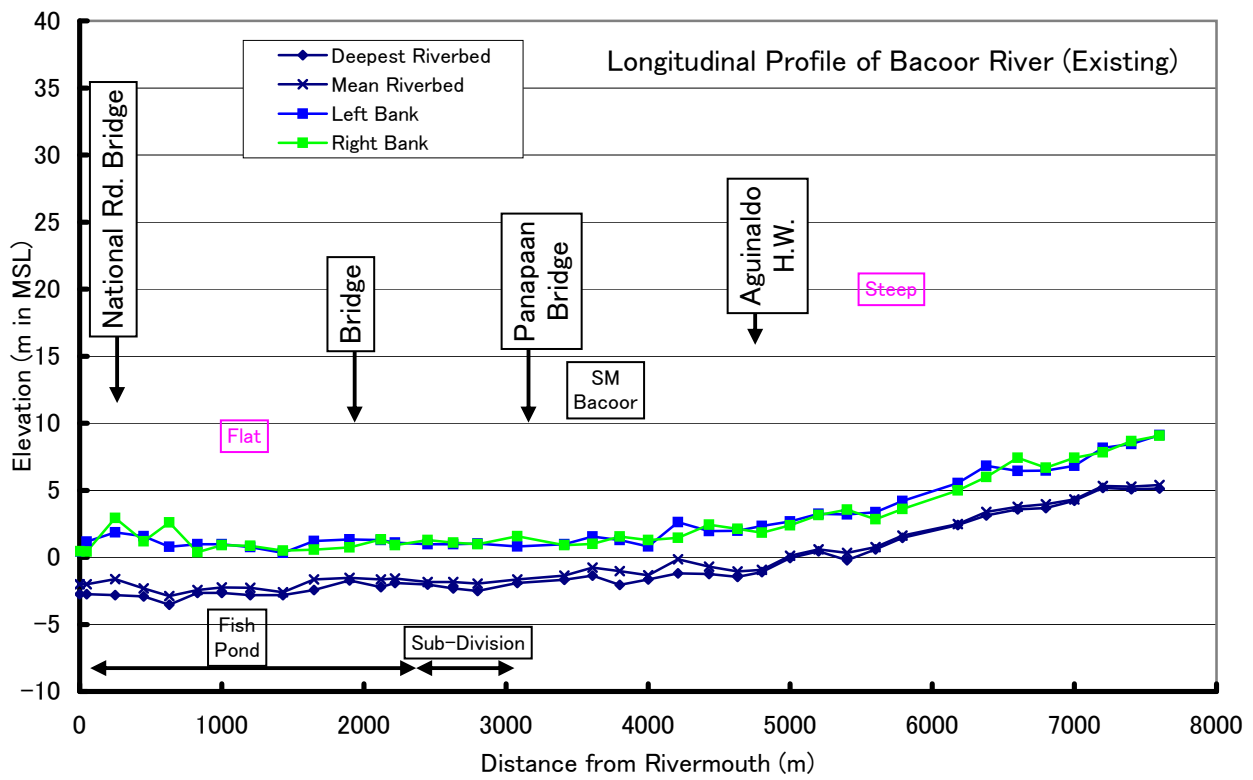
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図 8.1
 ローランドエリアのImus川現況縦断・
 河道幅図



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図 8.2
 ローランドエリアのJulian川現況縦断・河道幅図

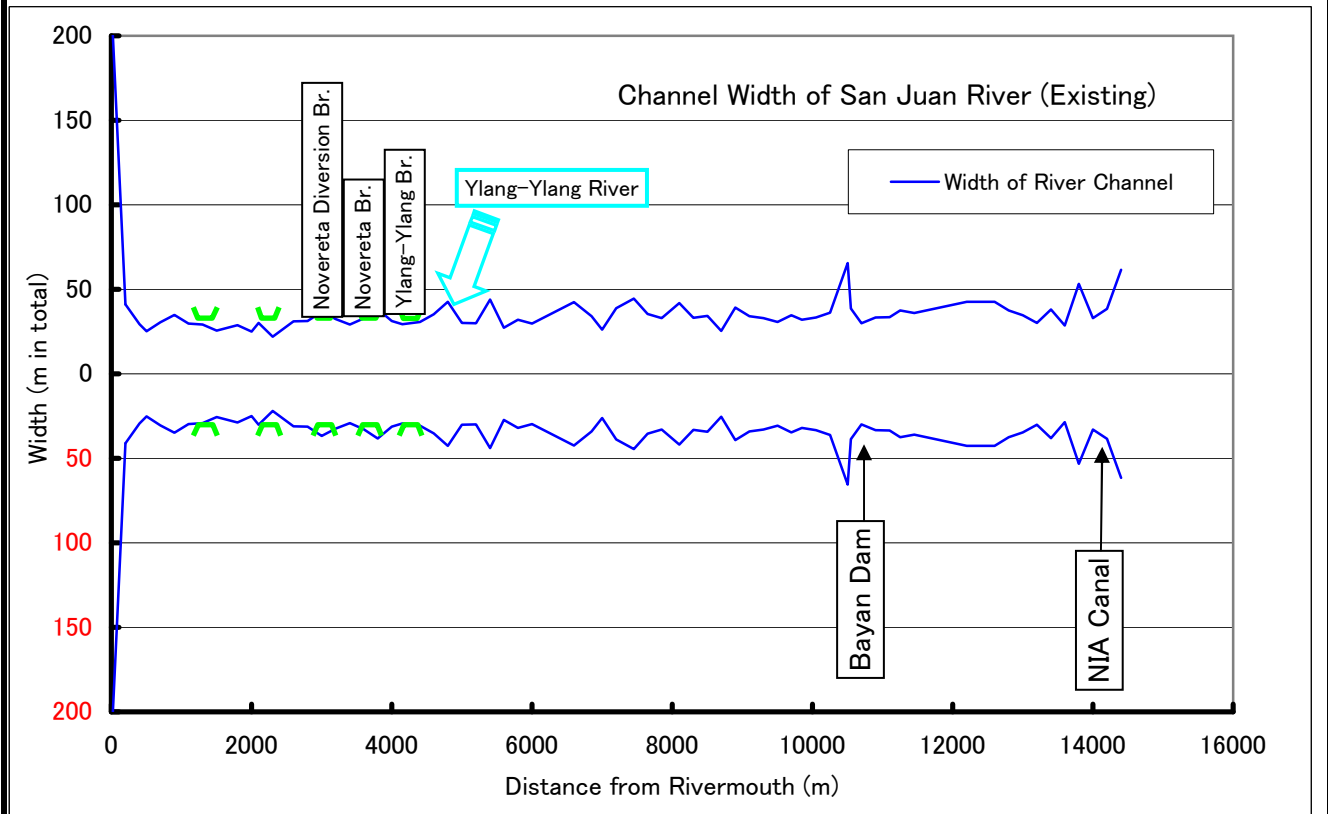
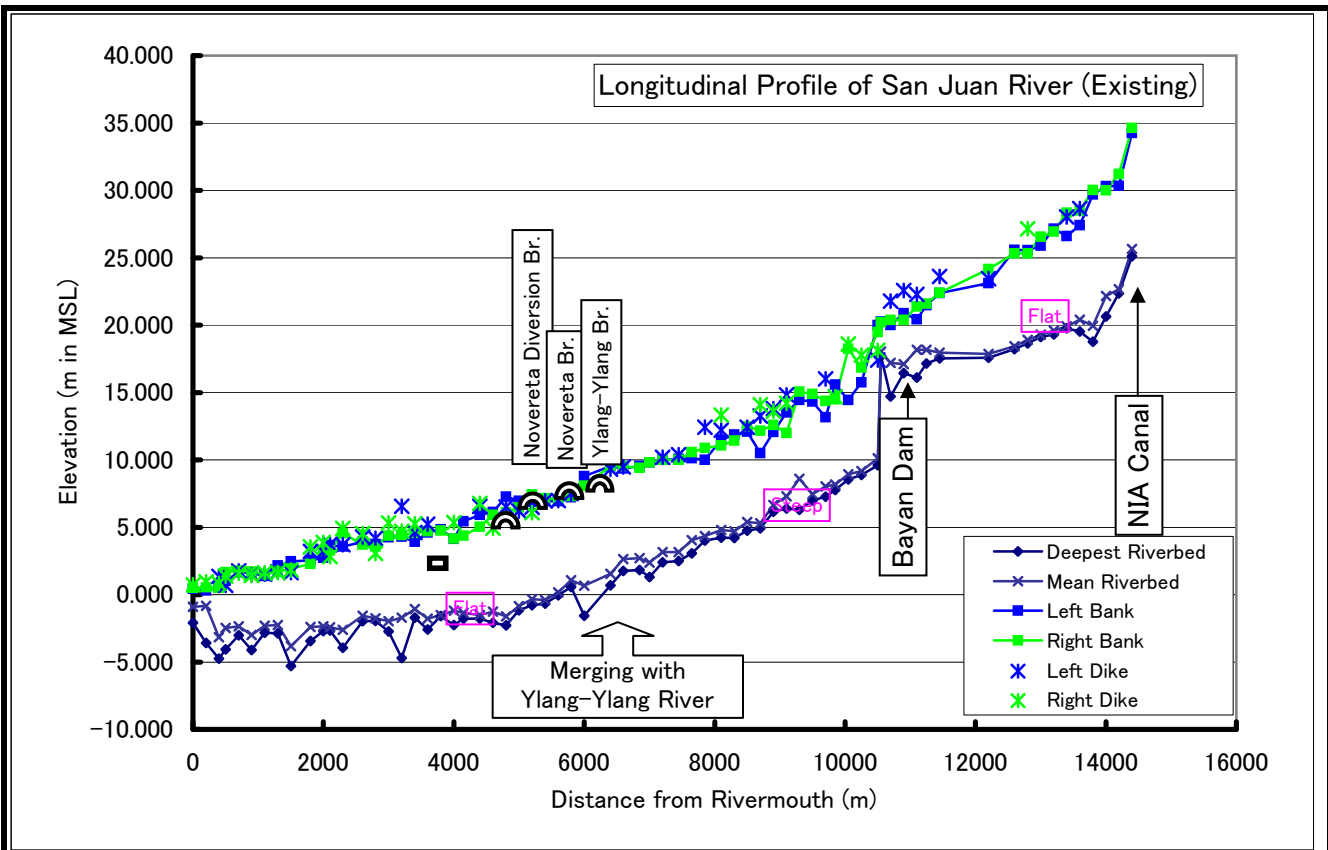


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図 8.3

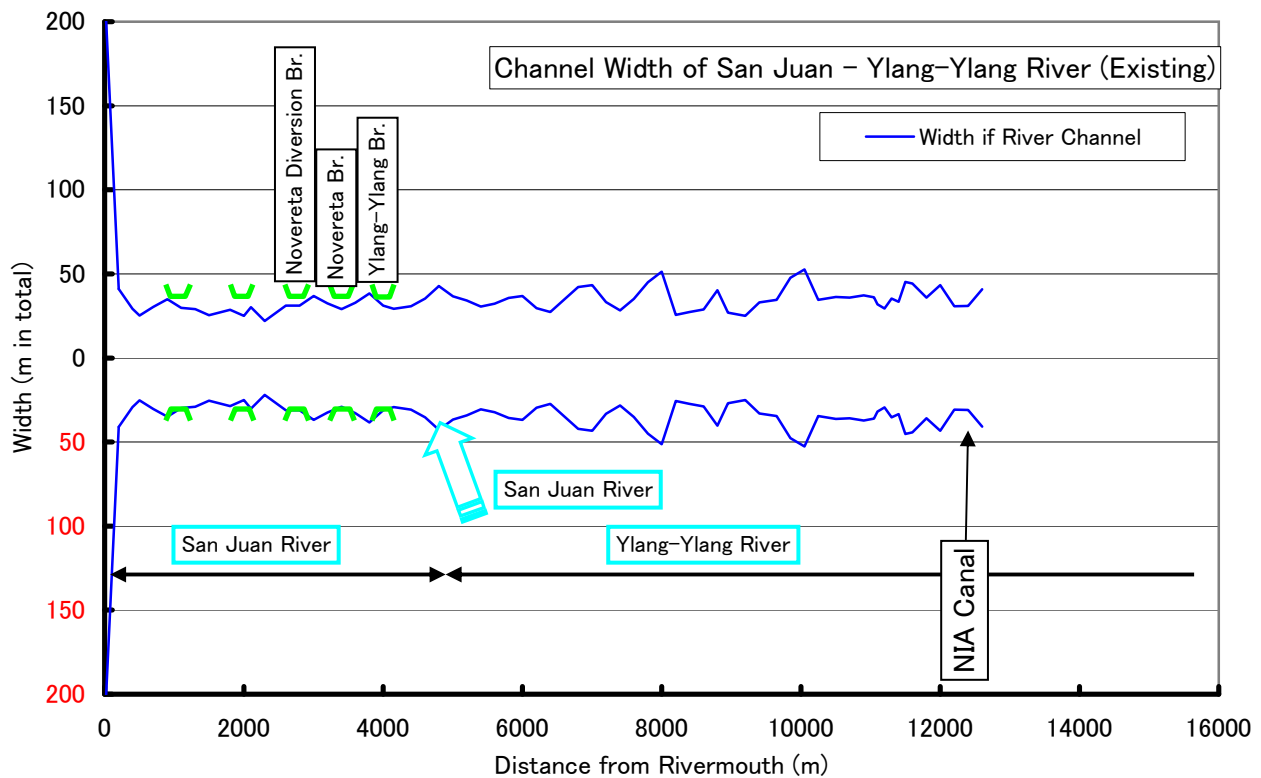
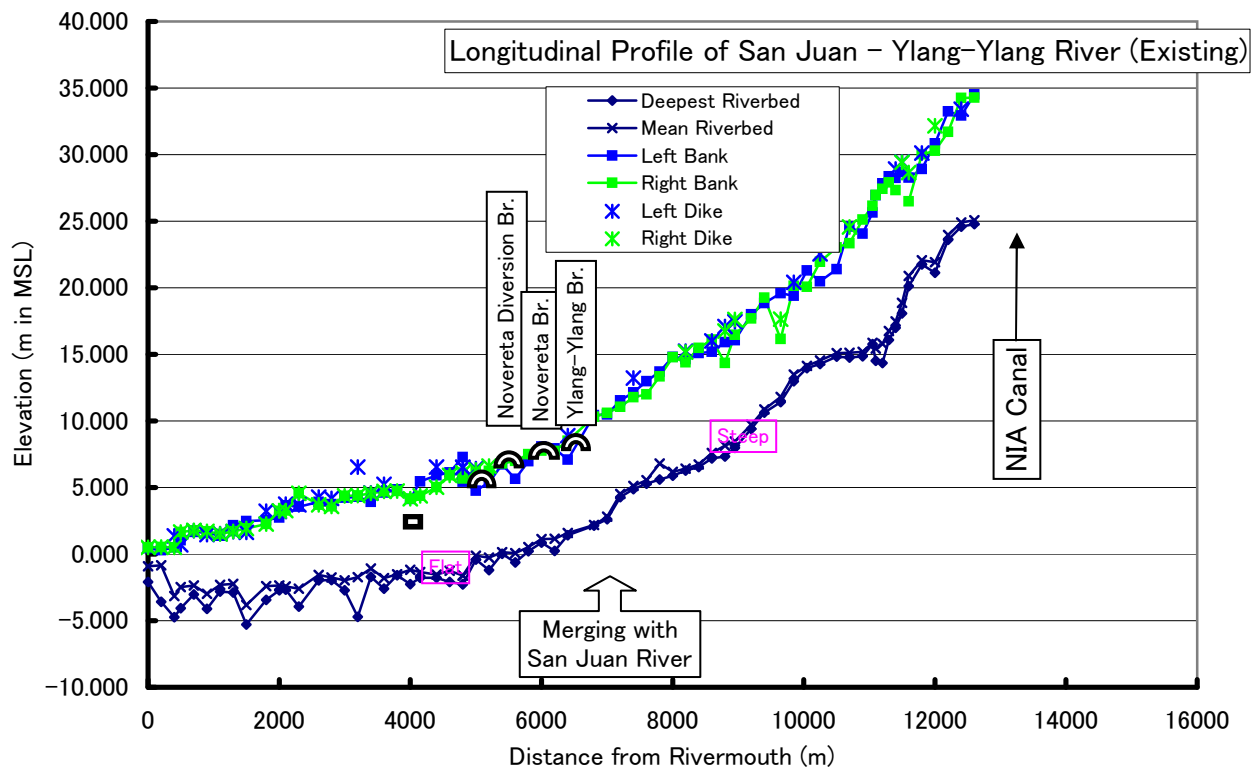
ローランドエリアのBacoor川現況縦断・河道幅図



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図 8.4

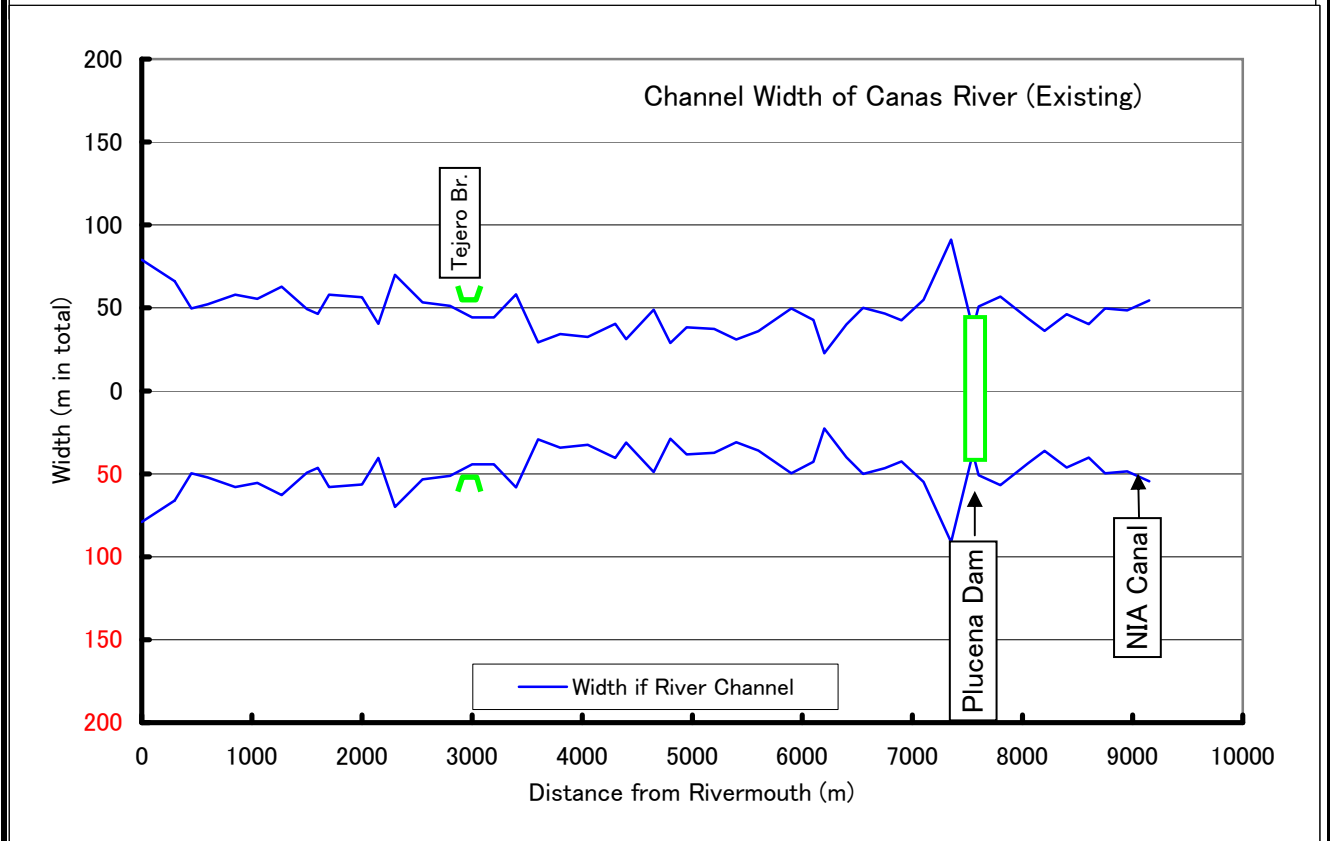
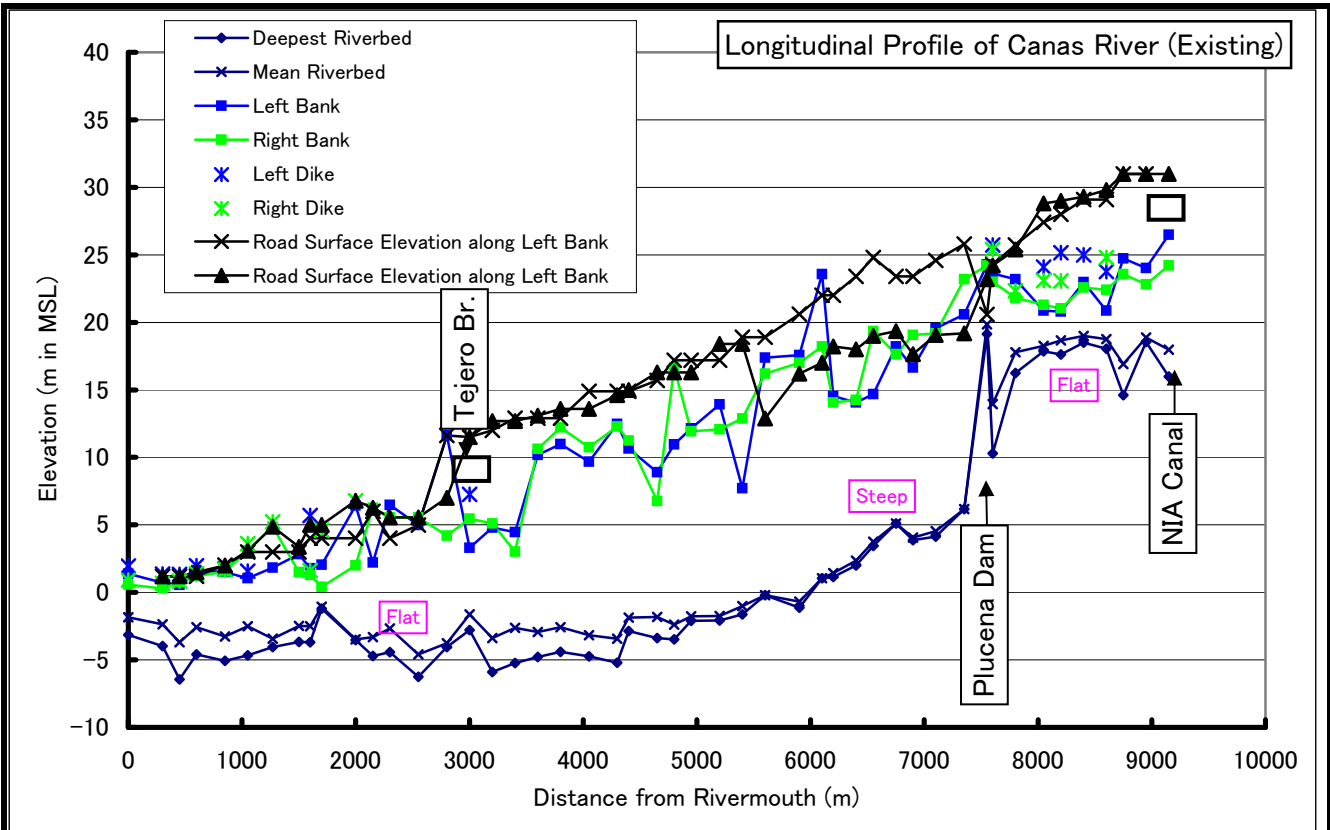
ローランドエリアのSan Juan川現況縦断・河道幅図



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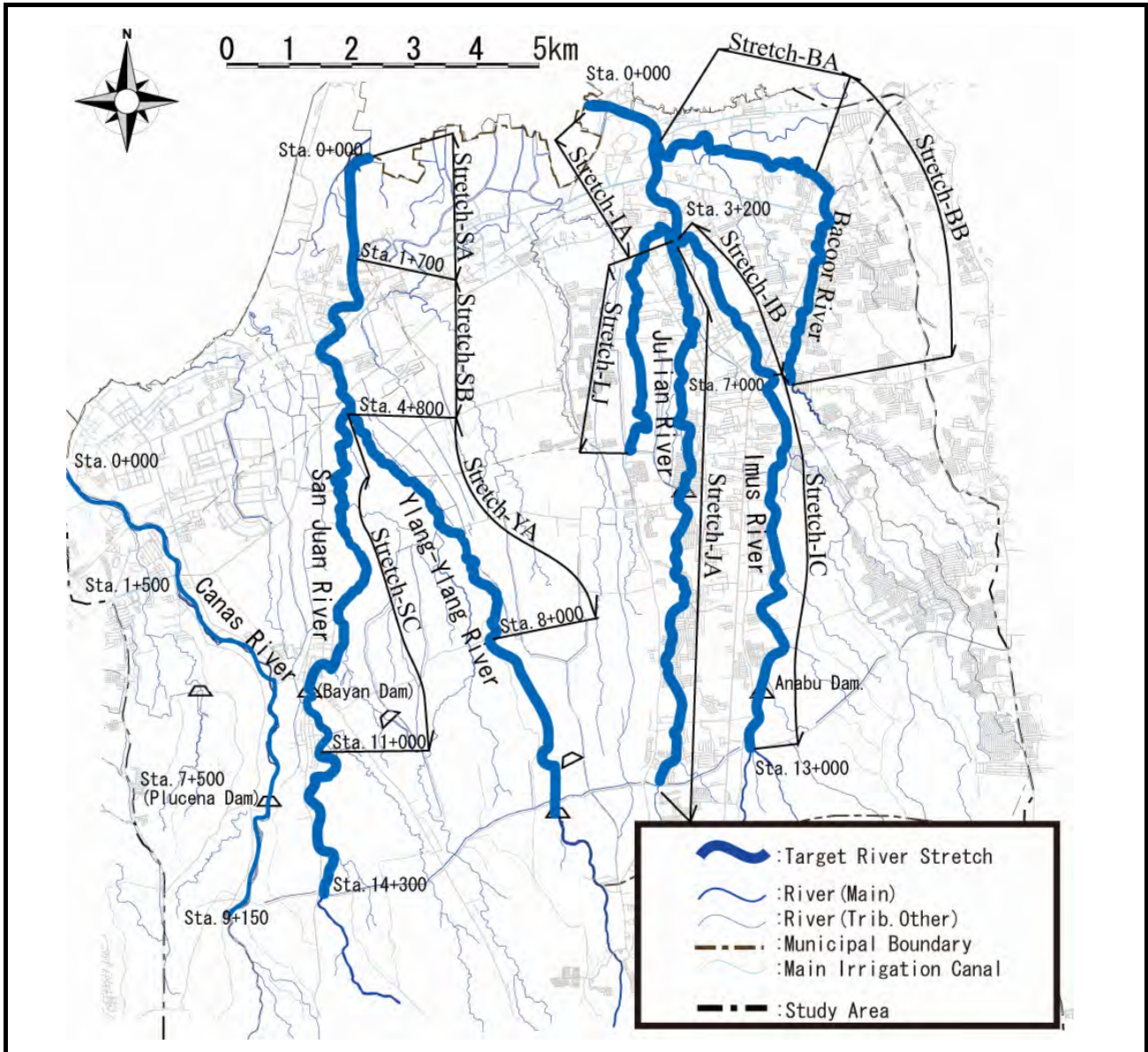
図 8.5

ローランドエリアのYlang-Ylang川現況縦断・河道幅図



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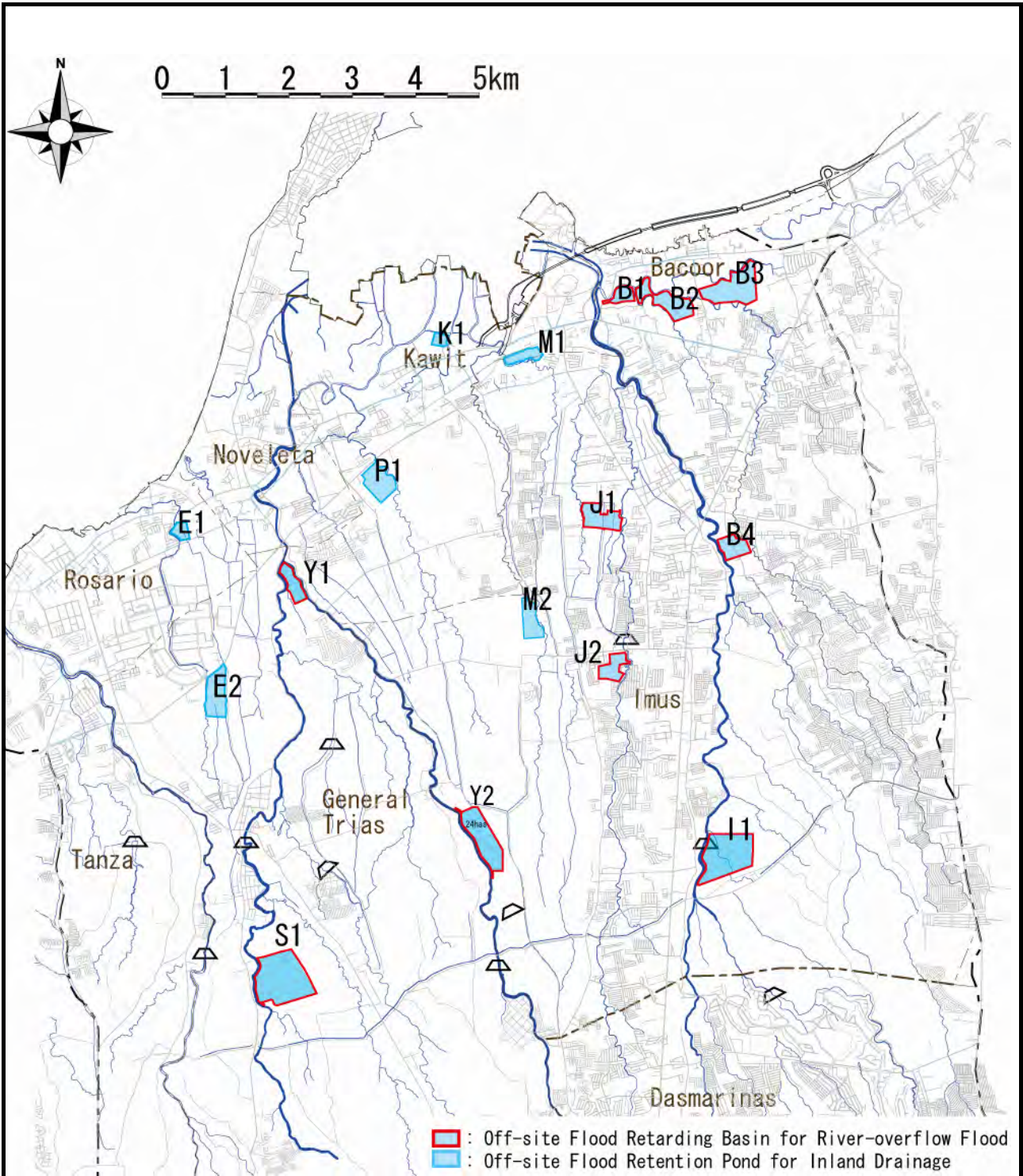
図 8.6
 ローランドエリアのCanas川現況縦断・河道幅図



River Basin	River	Code of Stretch*	Extent	Distance (km)
Imus	Imus	IA	From river mouth to Coastal National Road Bridge (Sta. 2+000)	2.0km
	Imus	IB	From Coastal National Road Bridge (Sta. 2+000) to confluence point with Julian River (Sta. 3+400)	1.4km
	Imus	IC	From confluence point with Julian River (Sta. 3+400) to NIA Cala Canal (Sta. 13+000)	9.6km
	Bacoor	BA	From confluence with Imus River to upstream end of fishpond (Sta. 3+000)	3.0km
	Bacoor	BB	From upstream end of fishpond (Sta. 3+000) to Sta. 7+000	4.0km
	Julian	JA	Whole river stretch	10.0km
	Left Tributary	LJ	Whole river stretch	4.5km
San Juan	San Juan	SA	From river mouth to Sta. 1+700 upstream	1.7km
	San Juan	SB	From Sta. 1+700 to merging point of San Juan and Ylang-Ylang (Sta. 4+800)	3.1km
	San Juan	SC	From Sta. 4+800 to upstream of Bayan Dam (Sta. 11+000)	6.2km
	Ylang-Ylang	YA	From Sta. 4+800 to Sta. 8+000	3.2km

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図 8.7
 下流低平地における 20 年確率河川洪水
 防御のために河川改修が必要な区間

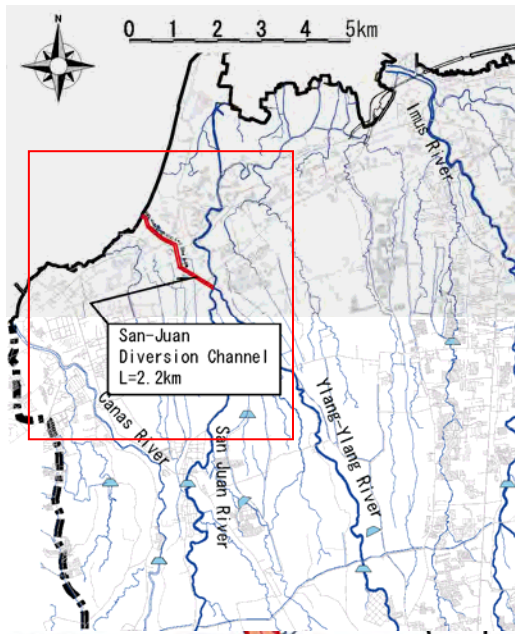


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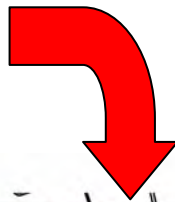
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図 8.8

遊水地及び内水調整池の配置可能候補地



	Design Discharge (m ³ /s)	
	w/ on-site	w/o on-site
2-year	0	60
5-year	200	270
10-year	430	480
20-year	670	700

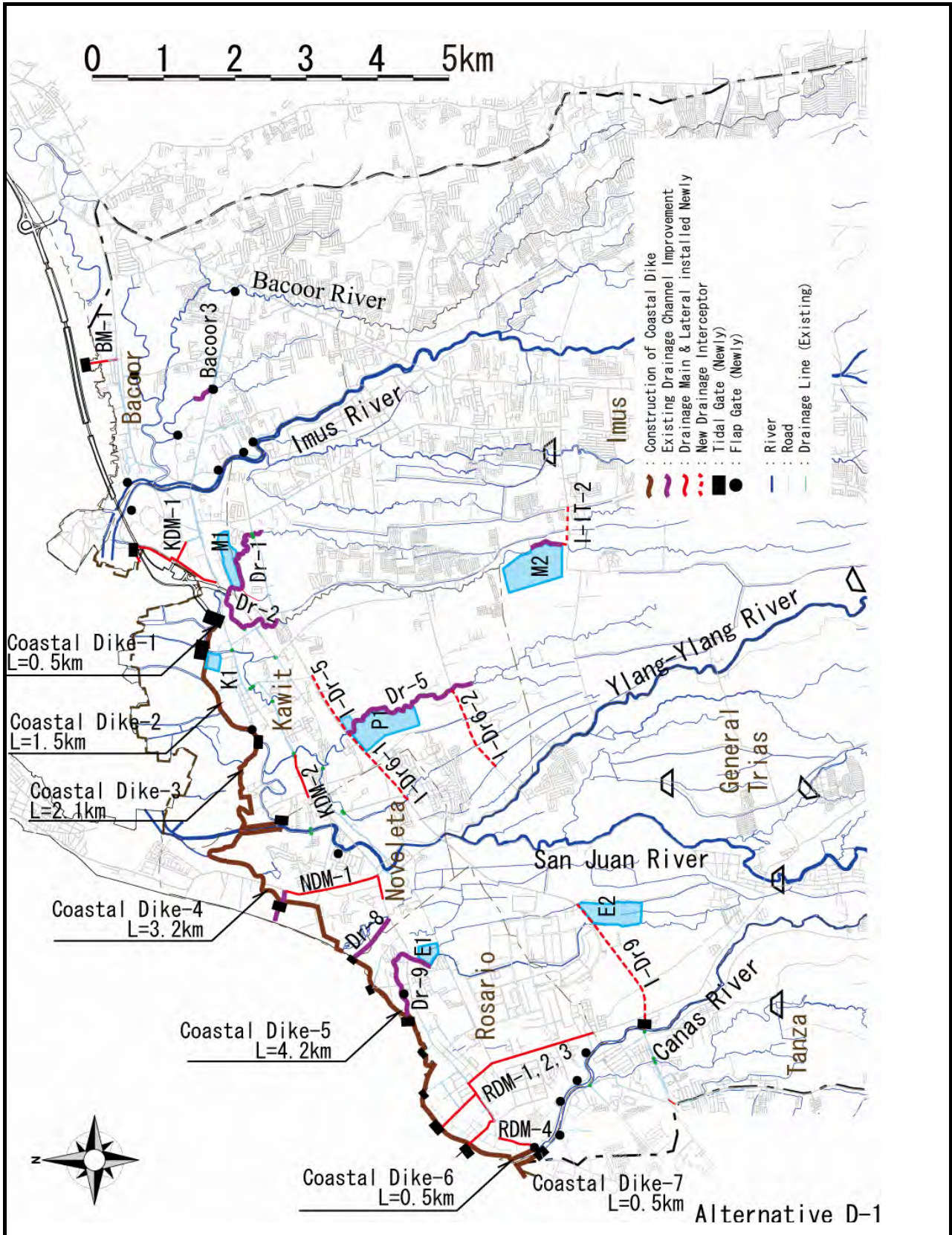


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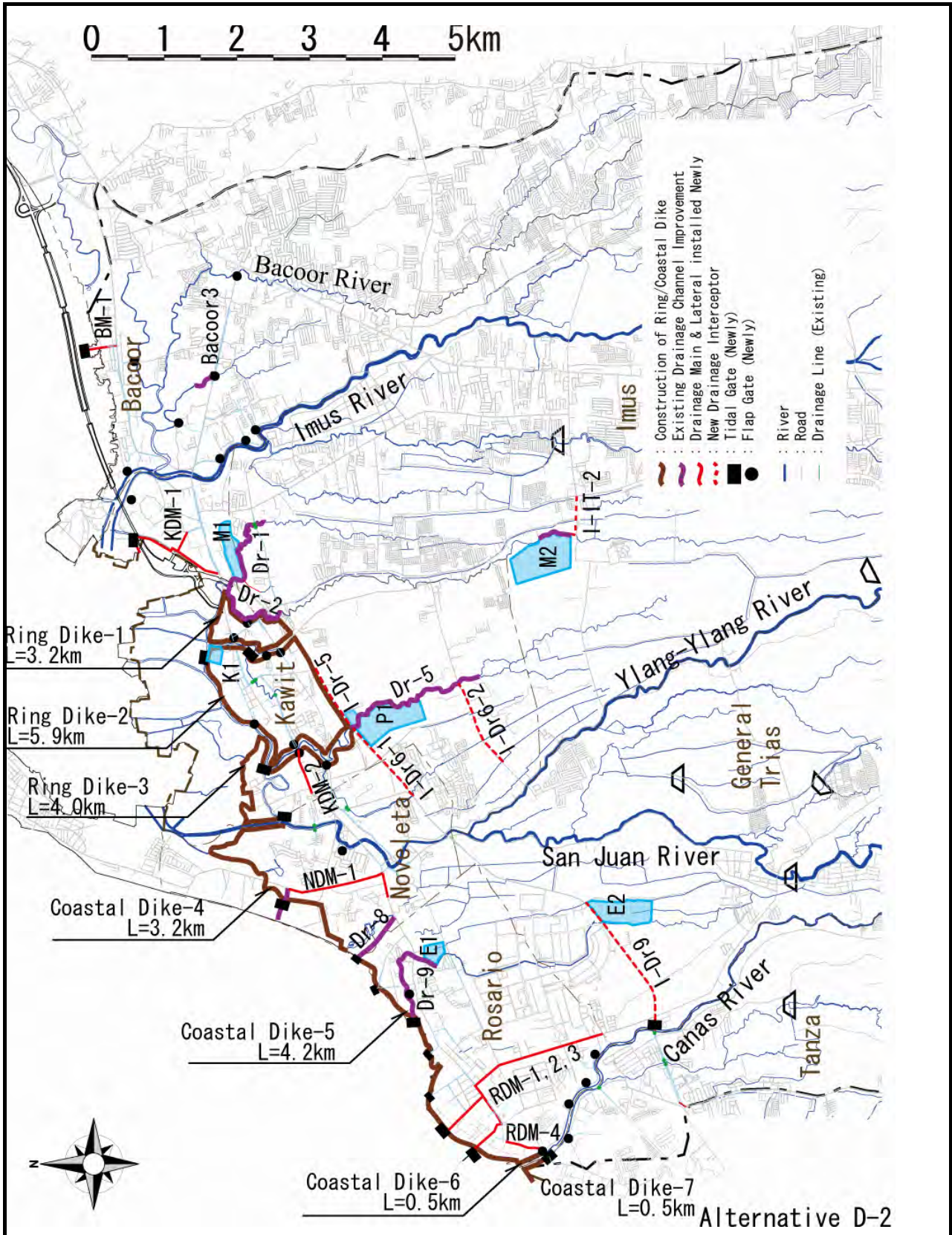
Fig. 8.9

San Juan 放水路線形案



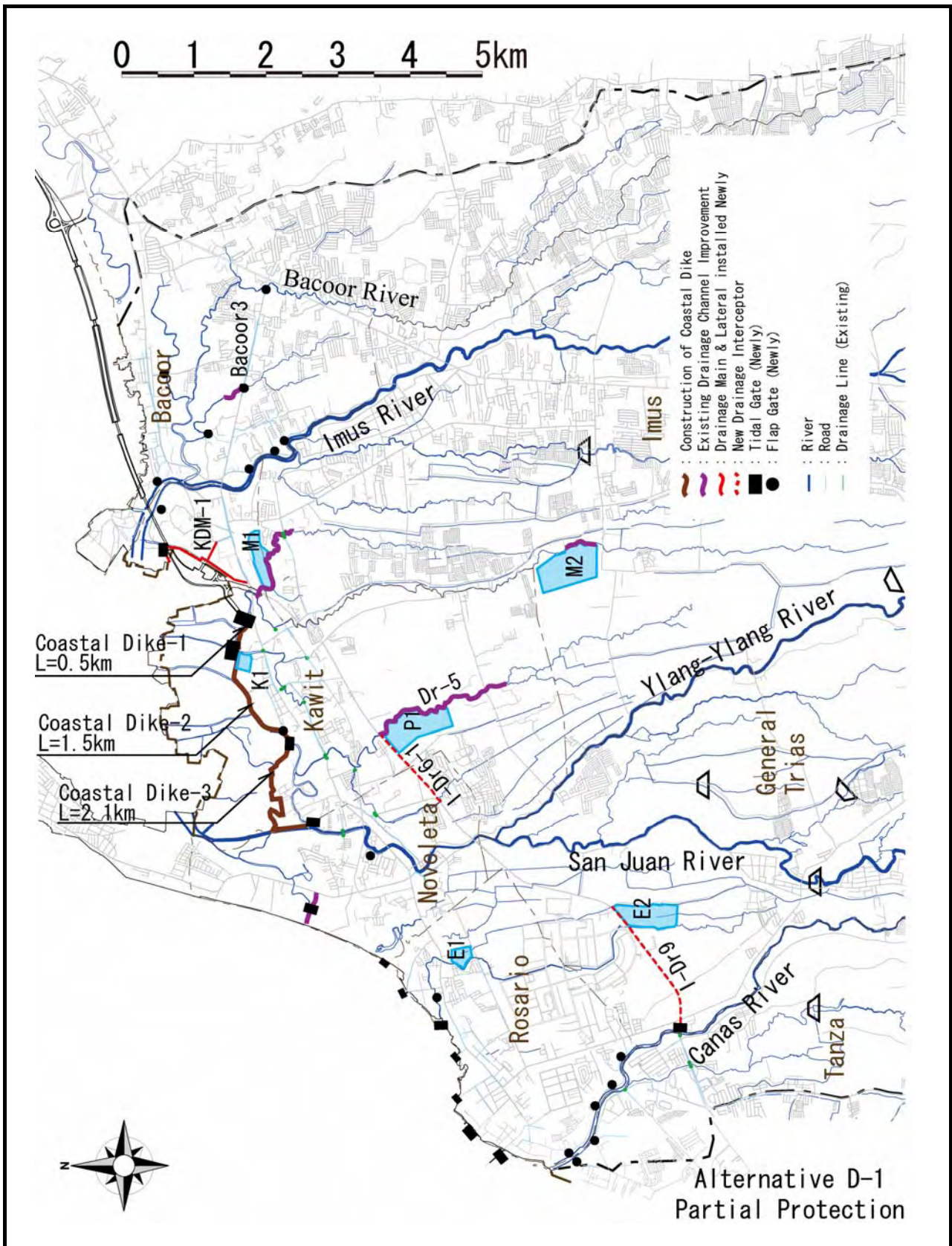
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図 8.10
 海岸堤と防潮ゲートによる完全2年確率
 内水排除対応施設配置図
 (Alternative D-1: Full Protection)



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図 8.11
 輪中堤と防潮ゲートによる完全2年確率
 内水排除対応施設配置図
 (Alternative D-2: Full Protection)

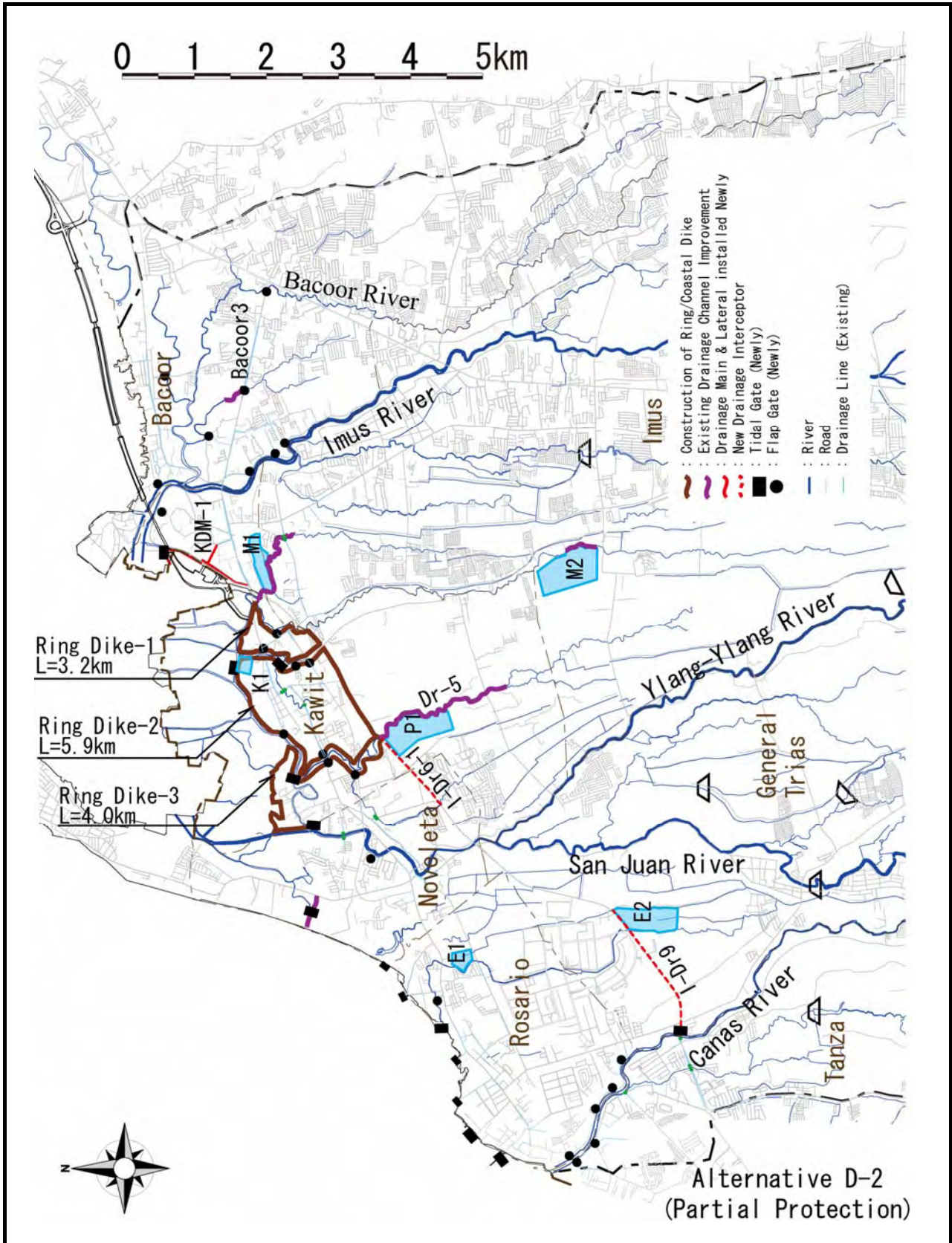


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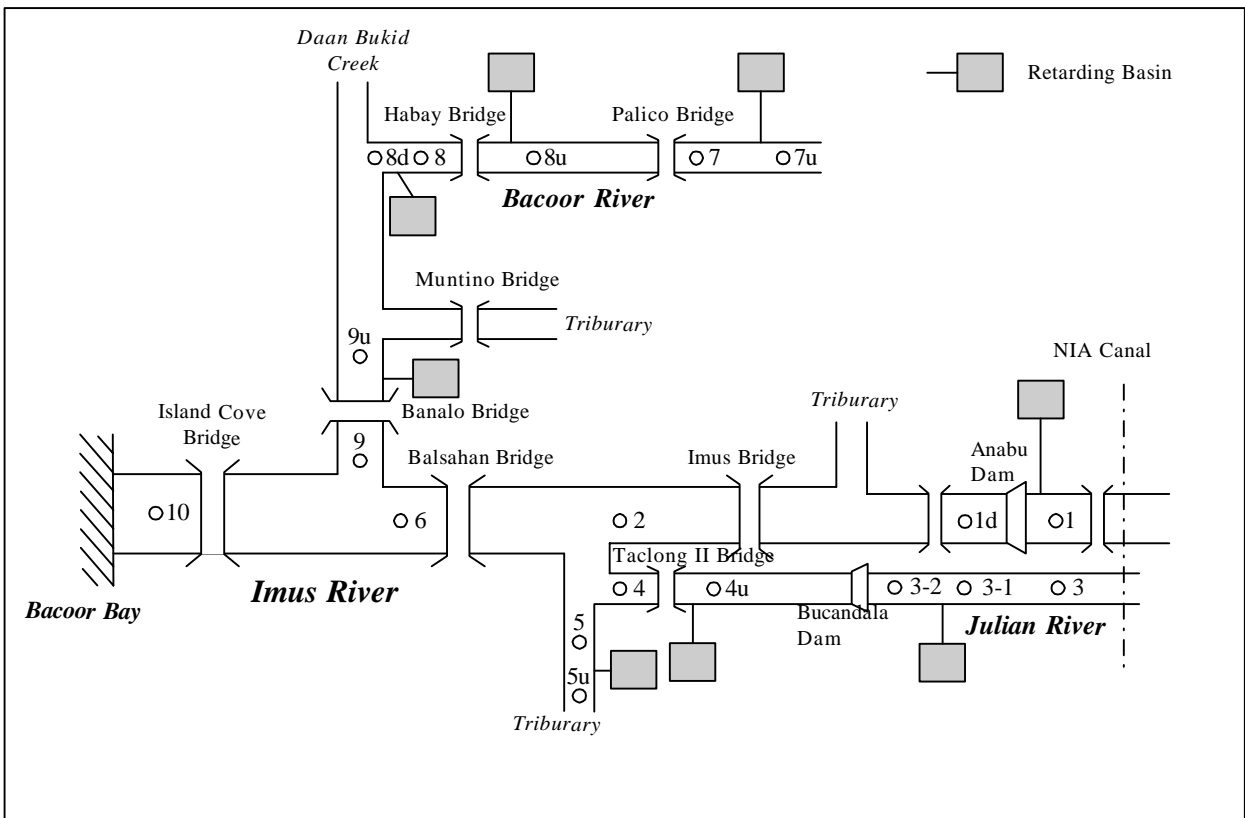
図 8.12

海岸堤と防潮ゲートによる浸水許容 2 年確率
内水排除対応施設配置図
(Alternative D-1: Partial Protection)



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図 8.13
輪中堤と防潮ゲートによる浸水許容 2 年確率
内水排除対応施設配置図
(Alternative D-2: Partial Protection)



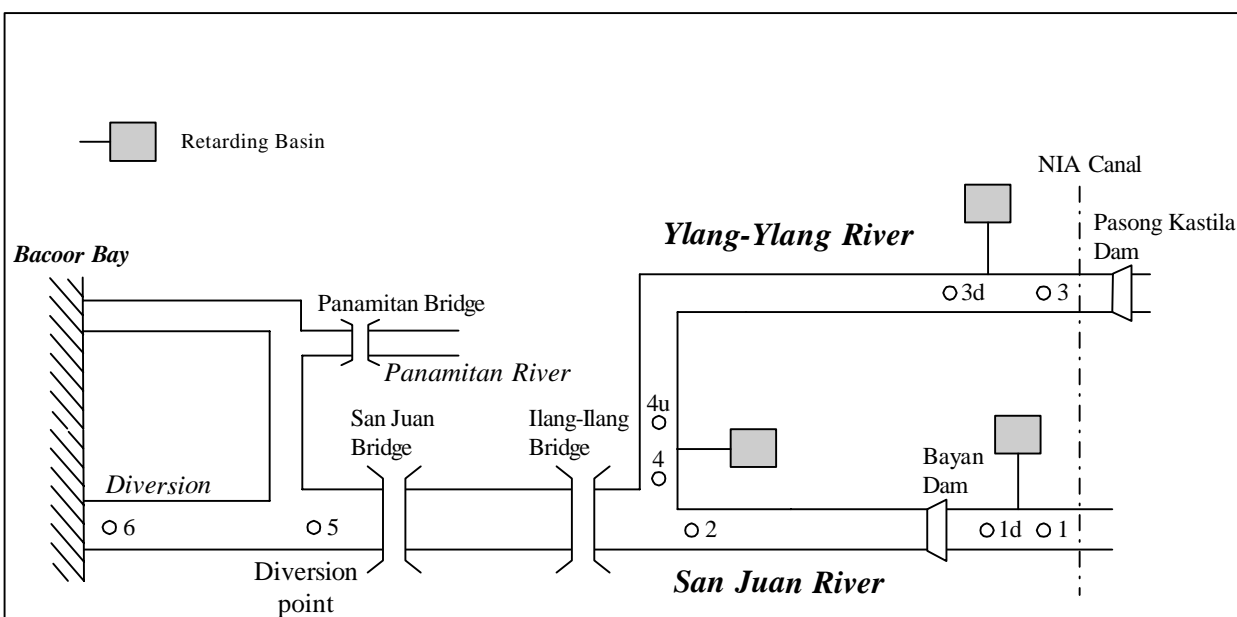
Point No.	Peak Discharge for Each Return Period (m ³ /s)							
	without On-Site				with On-Site			
	F_I,2				F_I,3			
	2-year	5-year	10-year	20-year	2-year	5-year	10-year	20-year
1	310	430	500	600	250	350	430	550
1d	190	250	280	350	160	210	250	300
2	280	380	440	520	230	320	390	470
3	130	160	170	190	90	120	140	160
3-1	170	180	180	180	150	180	180	180
3-2	100	130	140	140	70	110	130	140
4u	110	130	140	150	70	110	130	140
4	85	120	130	130	55	95	120	130
5u	30	35	35	35	25	35	35	35
5	15	15	15	15	15	15	15	15
6	350	450	520	540	290	400	470	530
7u	80	100	110	130	70	90	100	120
7	25	45	55	60	20	40	50	60
8u	75	75	75	75	70	75	75	75
8	50	50	50	50	50	50	50	50
8d	35	45	55	60	35	45	50	55
9u	65	65	65	75	65	65	65	70
9	50	75	95	110	50	70	80	100
10	370	450	520	560	320	400	470	550

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FOR CAVITE LOWLAND AREA

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図 8.14

Imus川流域確率規模別河川洪水対策設計流量
(マスタープラン F_I. 2/I. 3 : 河川部分改修
+ 遊水地案)



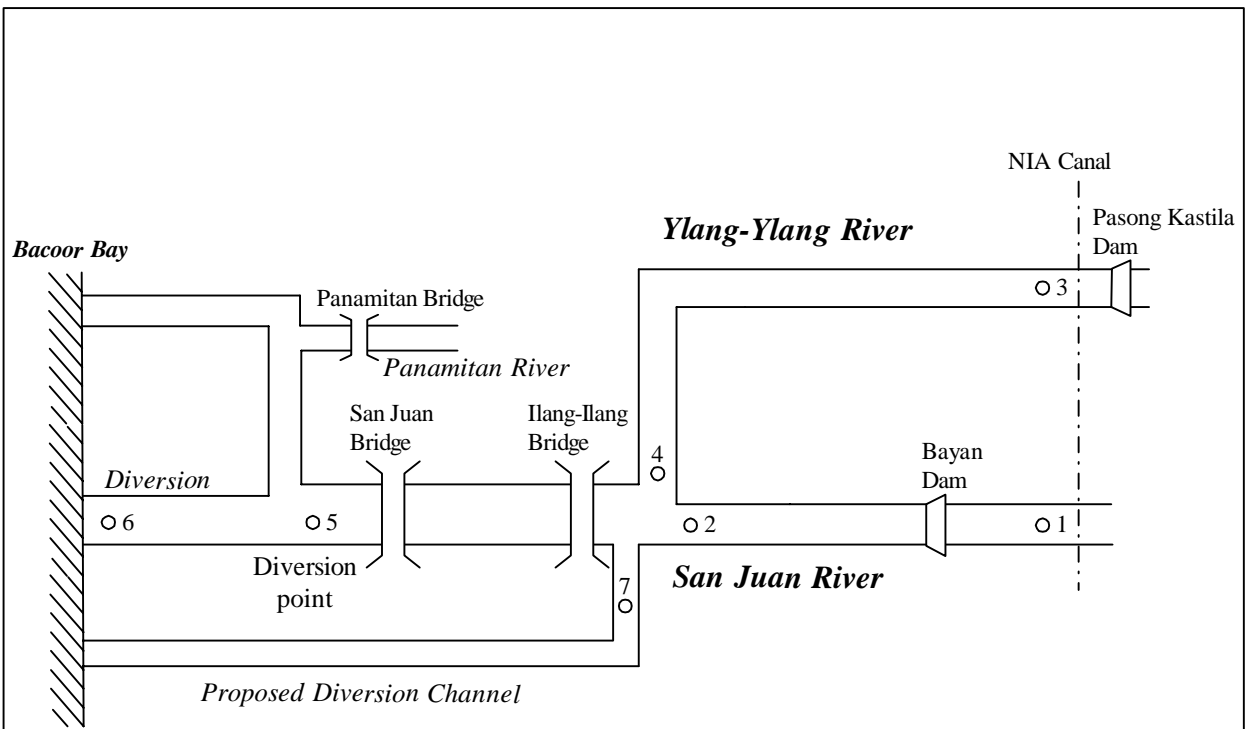
Point No.	Peak Discharge for Each Return Period (m ³ /s)							
	without On-Site				with On-Site			
	F_S.2				F_S.5R			
	2-year	5-year	10-year	20-year	2-year	5-year	10-year	20-year
1	160	230	350	470	130	220	340	460
1d	120	130	140	160	120	130	140	160
2	180	240	270	300	170	230	260	290
3	270	370	490	620	220	300	430	580
3d	200	220	250	320	190	210	240	300
4u	220	260	290	350	200	240	280	330
4	170	210	260	350	170	200	240	330
5	330	420	485	610	310	410	460	580
6	330	420	485	610	310	410	460	580

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図 8.15

San Juan川流域確率規模別河川洪水対策設計
流量 (マスタープラン F_S. 2: 河川部分改修
+ 遊水地案)



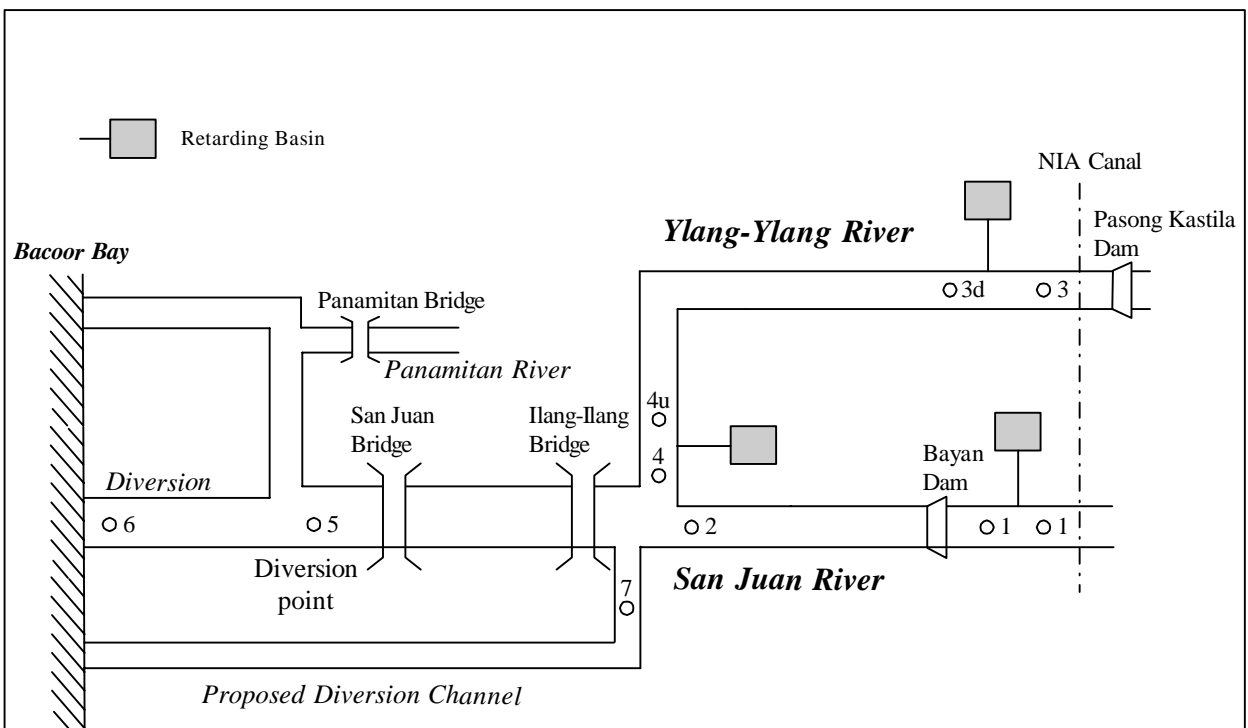
Point No.	Peak Discharge for Each Return Period (m ³ /s)							
	without On-Site				with On-Site			
	F_S.3				F_S.5D			
	2-year	5-year	10-year	20-year	2-year	5-year	10-year	20-year
1	160	230	350	470	130	220	340	460
2	220	340	460	600	190	320	450	580
3	270	370	490	620	215	300	425	580
4	280	390	510	640	220	330	460	600
5	350	400	400	400	340	400	400	400
6	350	400	400	400	340	400	400	400
7	60	270	480	700	0	200	430	670

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図 8.16

San Juan川流域確率規模別河川洪水対策設計
流量 (マスタープラン F_S. 3:河川部分改修+
放水路案)



Point No.	Peak Discharge for Each Return Period (m ³ /s)							
	without On-Site				with On-Site			
	F_S.4wo				F_S.4with			
	2-year	5-year	10-year	20-year	2-year	5-year	10-year	20-year
1	160	230	350	470	130	220	340	460
1d	150	210	250	270	120	190	240	260
2	170	320	370	390	170	290	370	390
3	270	370	490	620	220	300	430	580
3d	260	350	410	450	190	290	380	440
4u	270	370	440	480	200	320	400	470
4	260	330	390	420	190	280	360	410
5	350	400	400	400	320	400	400	400
6	350	400	400	400	320	400	400	400
7	40	200	250	300	0	150	250	300

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図 8.17

San Juan川流域確率規模別河川洪水対策設計
流量 (マスタープラン F_S. 4: 河川部分改修+
遊水地+放水路案)

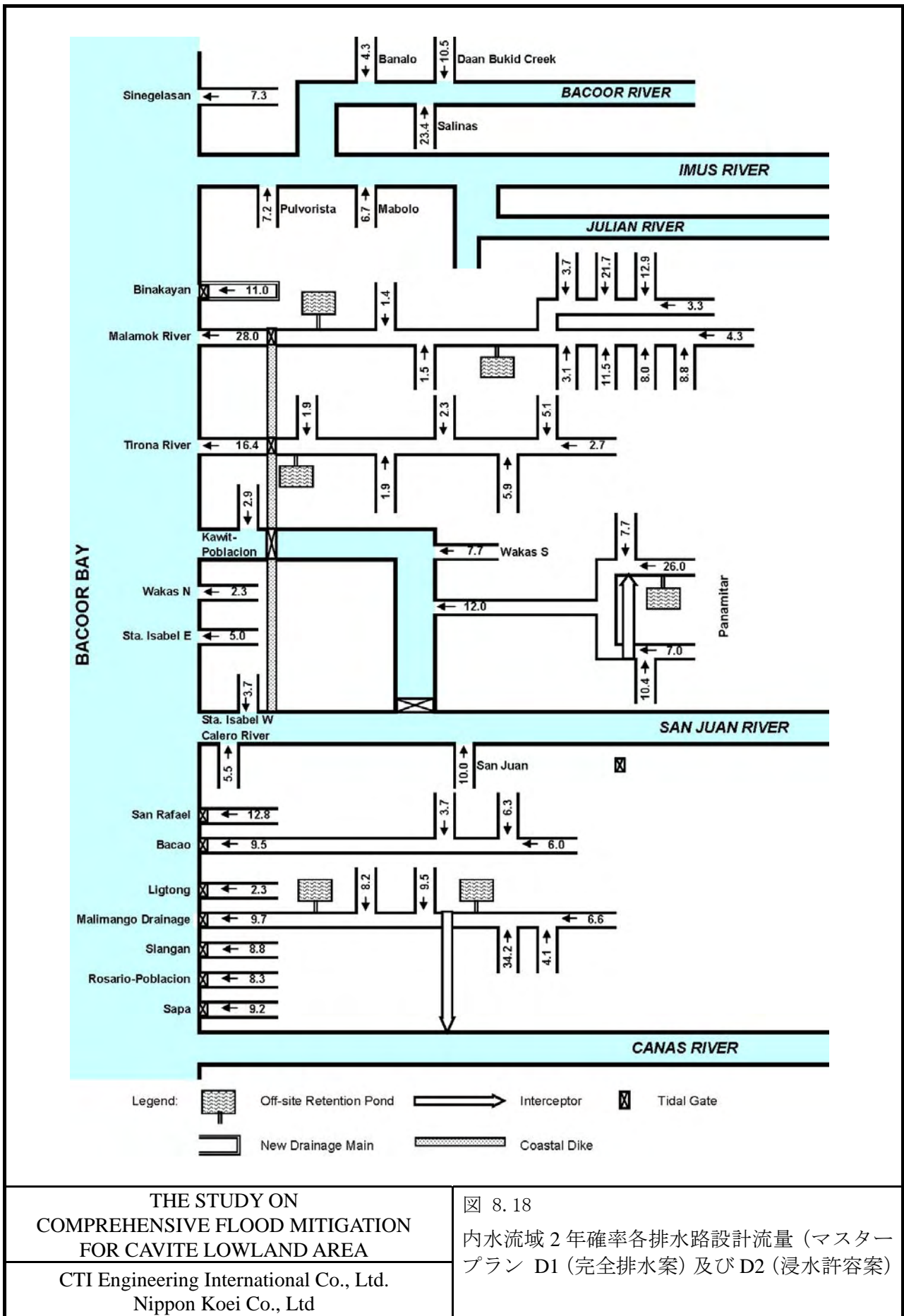
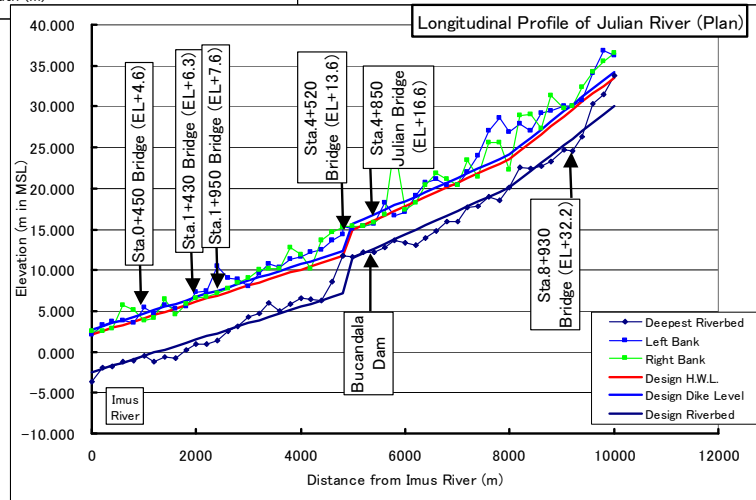
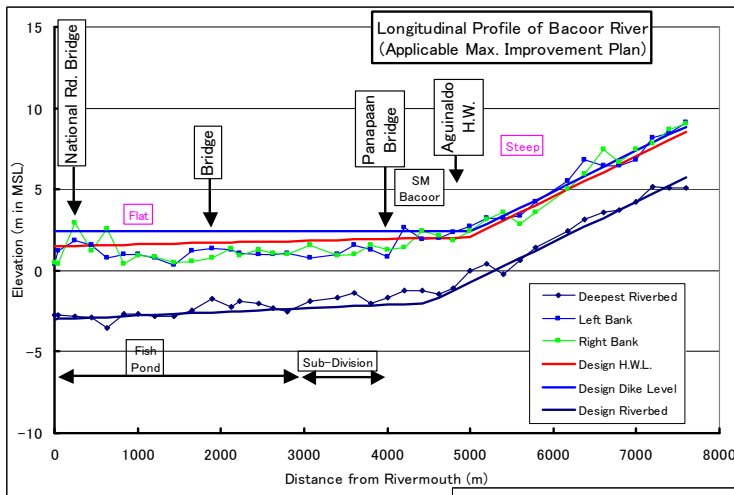
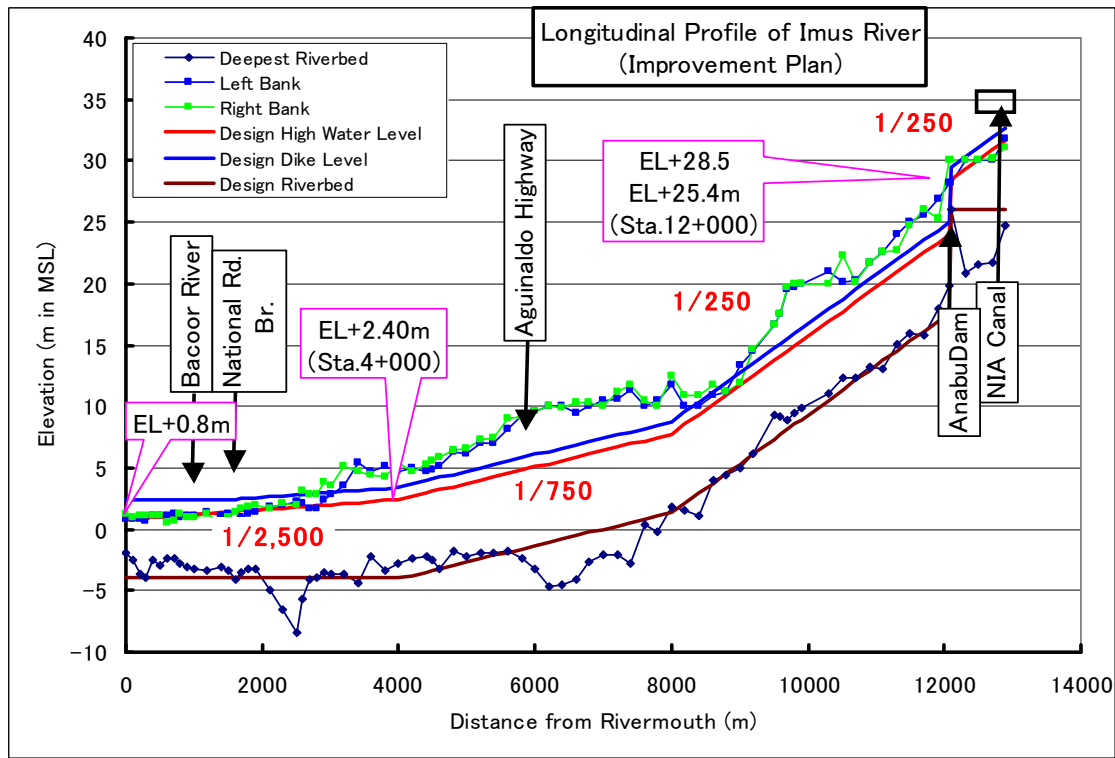


図 8.18
内水流域 2 年確率各排水路設計流量 (マスター
プラン D1 (完全排水案) 及び D2 (浸水許容案)

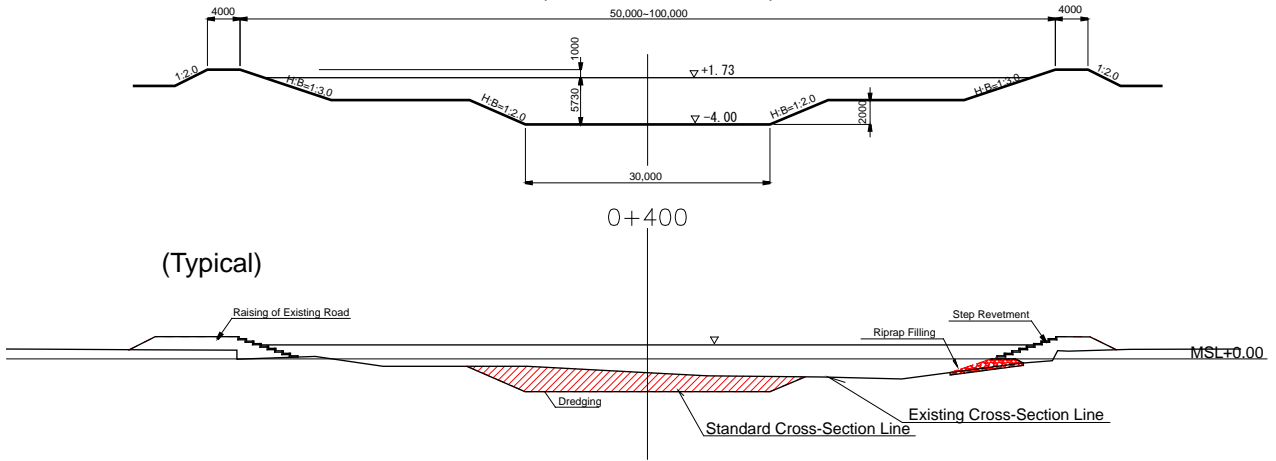


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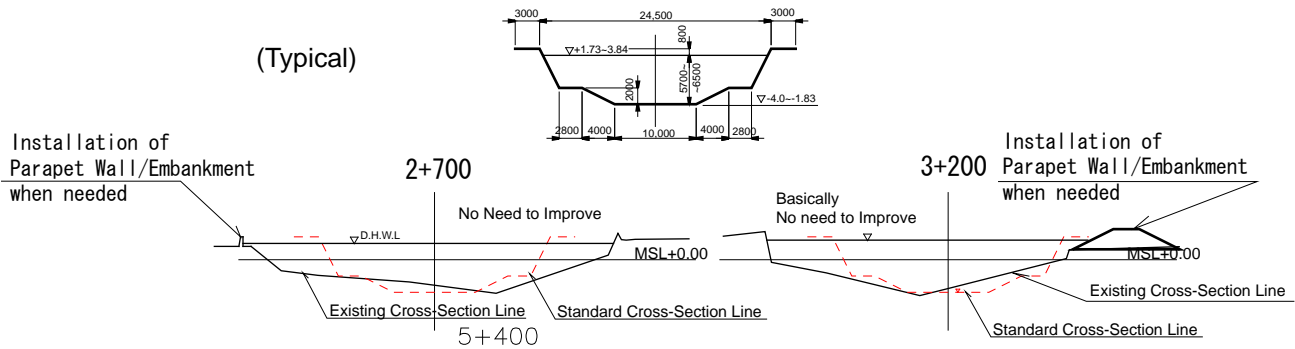
図 8.19

Imus/Bacoor/Julian川計画縦断図

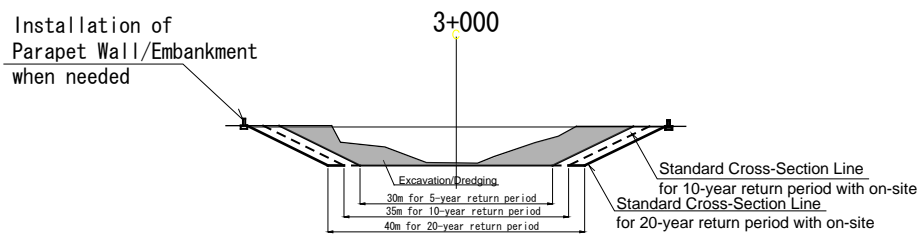
Standard Cross Section (Sta.0+000~Sta.2+000:Rivermouth to Binakayan Bridge):400m³/s
(For All Alternatives)



Standard Cross Section (Sta.2+000~Sta.3+200:Binakayan Bridge to Merging with Julian R.):400m³/s
(For Partial Improvement: F_I.2 and F.I.3)



Typical Cross Section for Full-Scaled Improvement : 660, 810 and 970m³/s
(For Partial Improvement: F_I.2 and F.I.3)



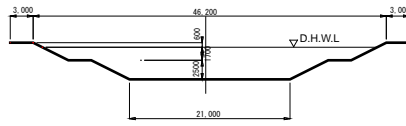
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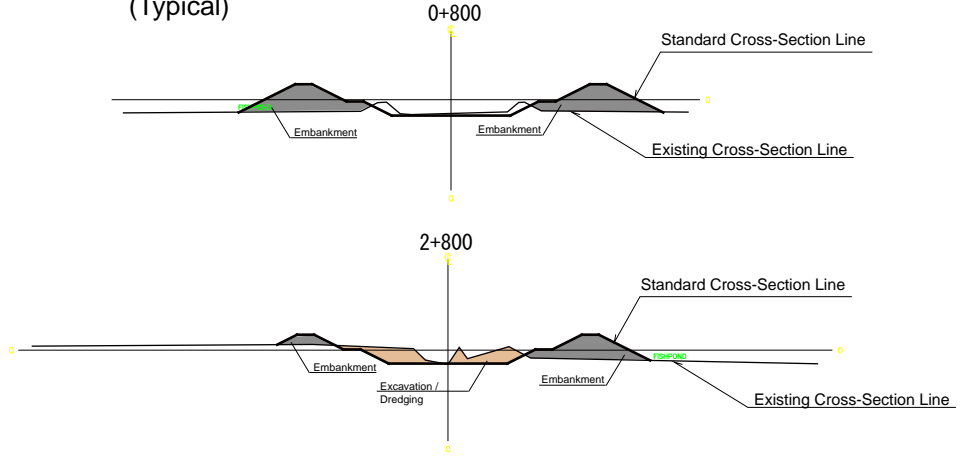
図 8.20

Imus川河道改修標準断面及び改修概念図

Standard Cross Section (Sta.0+000~Sta.3+000:Rivermouth to Fishpond Area: 100~135m³/s)

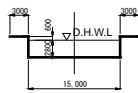


(Typical)

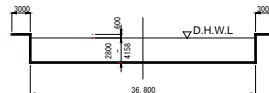


Standard Cross Section (Sta.4+000~Sta.5+000:SM Bacoor to Aguinaldo H.W.)

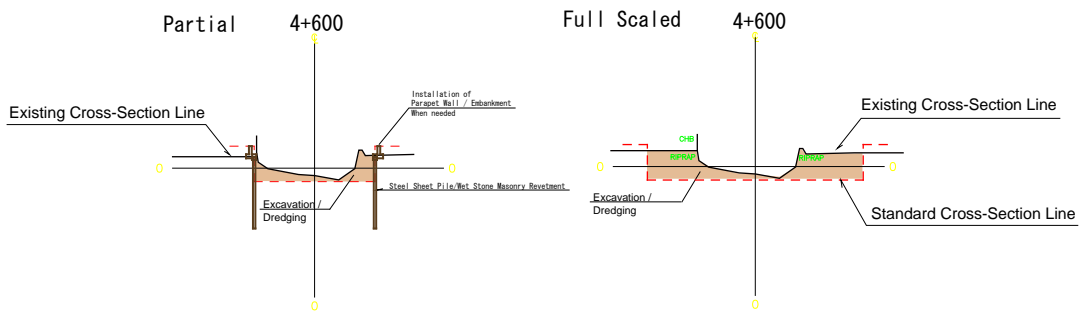
For Partial Improvement
Q=65m³/s



For Full Scaled Improvement
Q=125m³/s



(Typical)



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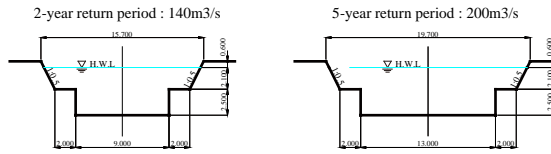
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図 8.21

Bacoor川河道改修標準断面及び改修概念図

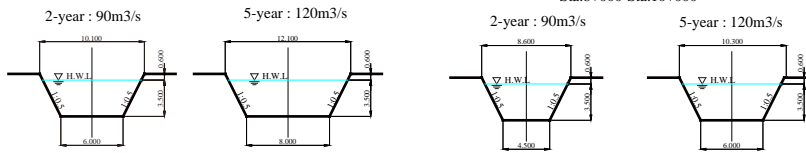
Standard Cross Section of Julian River
 : 2-year (140m³/s) (Partial) and 5-year return period (200m³/s) (Full Scaled)

Sta.0+000-Sta.4+800(Bucandala Dam)



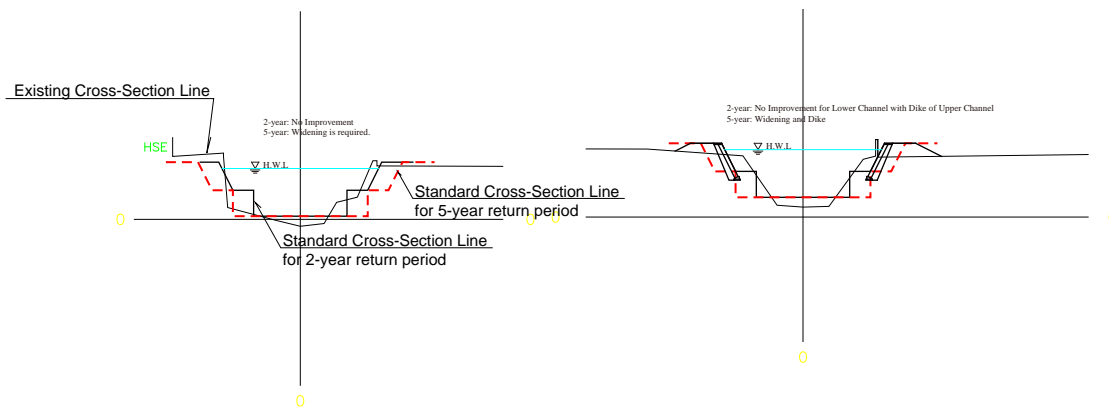
Sta.4+800-Sta.8+000

Sta.8+000-Sta.10+000



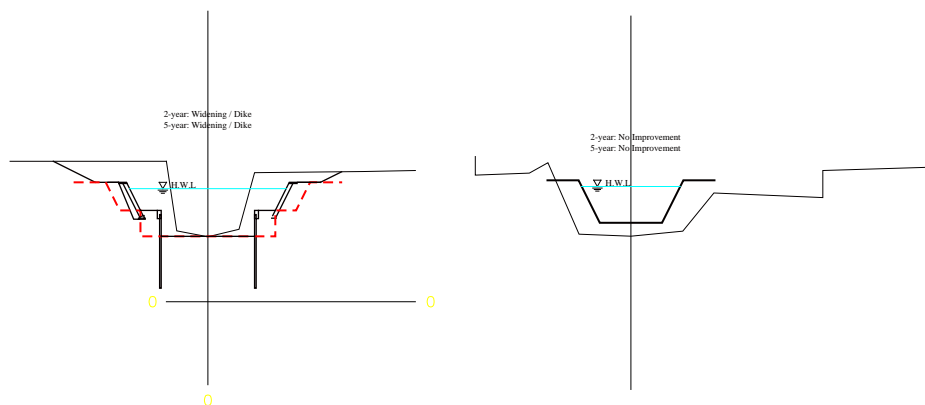
1+400

2+200



4+400

6+600

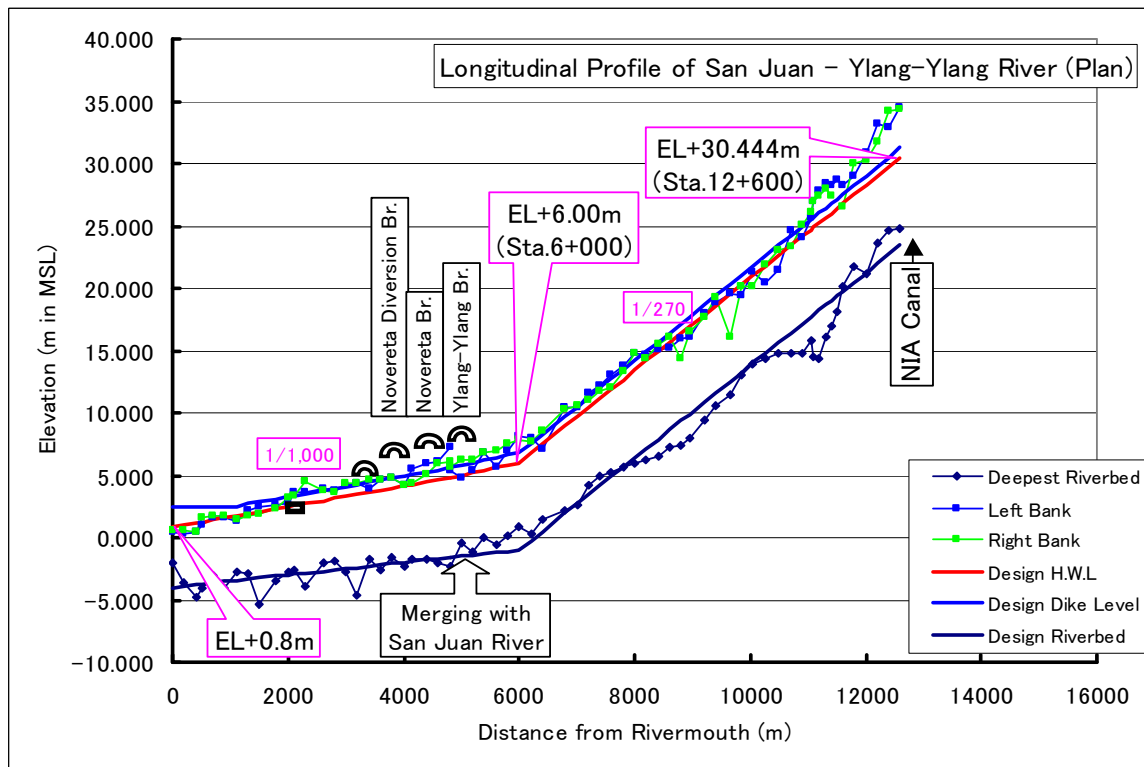
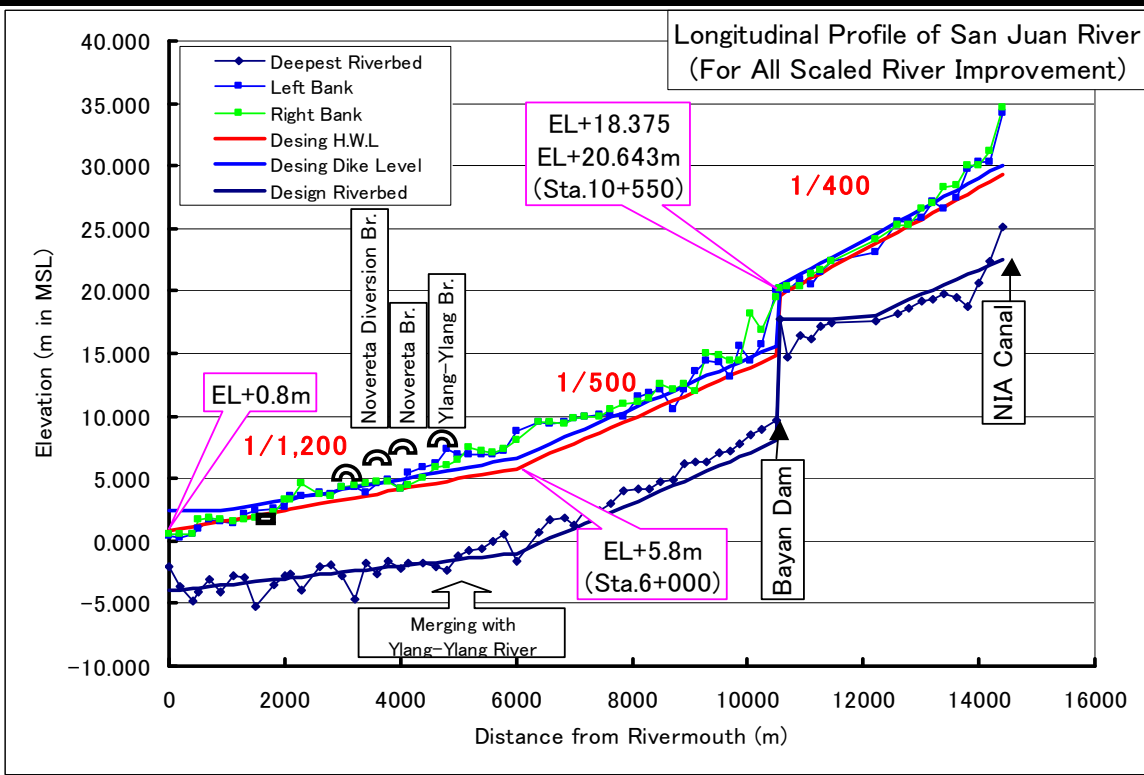


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図 8.22

Julian川河道改修標準断面及び改修概念図

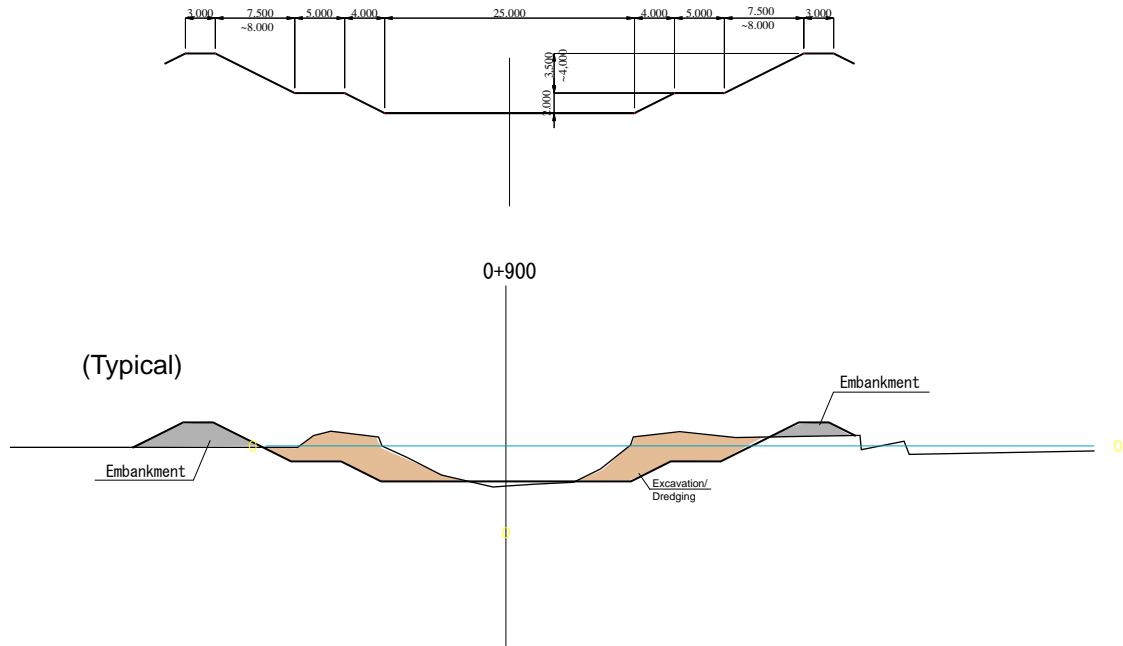


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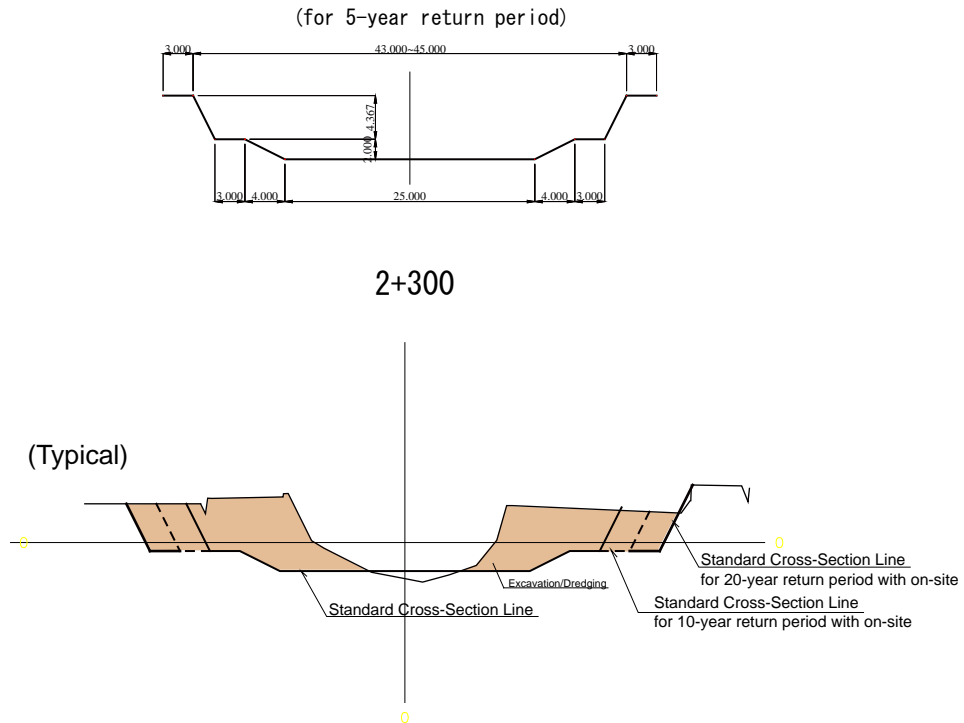
図 8.23

San Juan/Ylang-Ylang River 川計画縦断面図

Standard Cross Section (Sta.0+000~Sta.1+700:Rivermouth Area : 400m³/s)
(For All Alternatives)



Standard Cross Section (Sta.1+700~Sta.4+800:Brgy. Sta. Isabel~Merging P.) : 600, 810 and 1050m³/s
(For : Full Scaled Improvement)

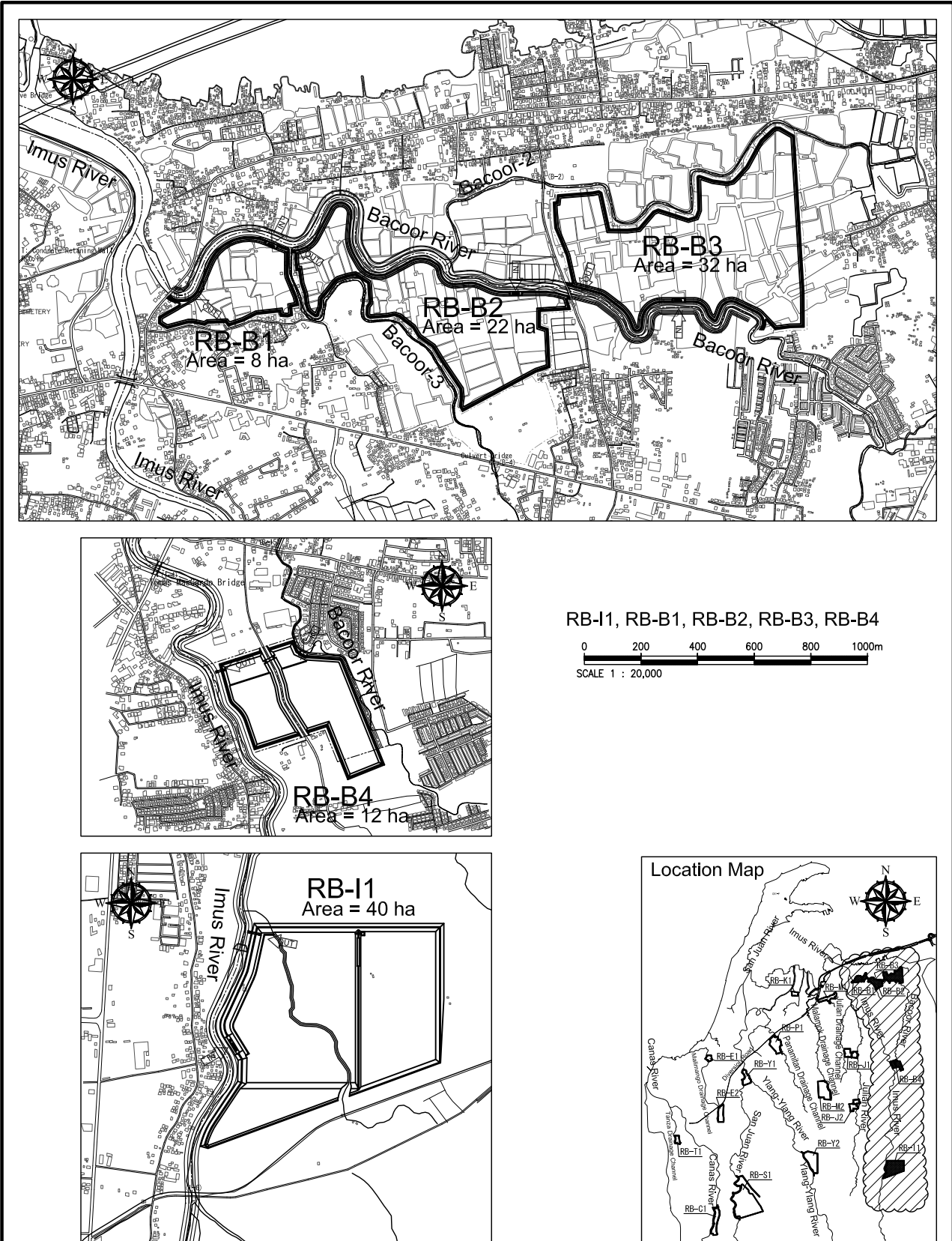


THE STUDY ON
COMPREHENSIVE FLOOD MITIGATION
FOR CAVITE LOWLAND AREA

CTI Engineering International Co., Ltd
Nippon Koei Co., Ltd

図 8.24

San Juan川河道改修標準断面及び改修概念図



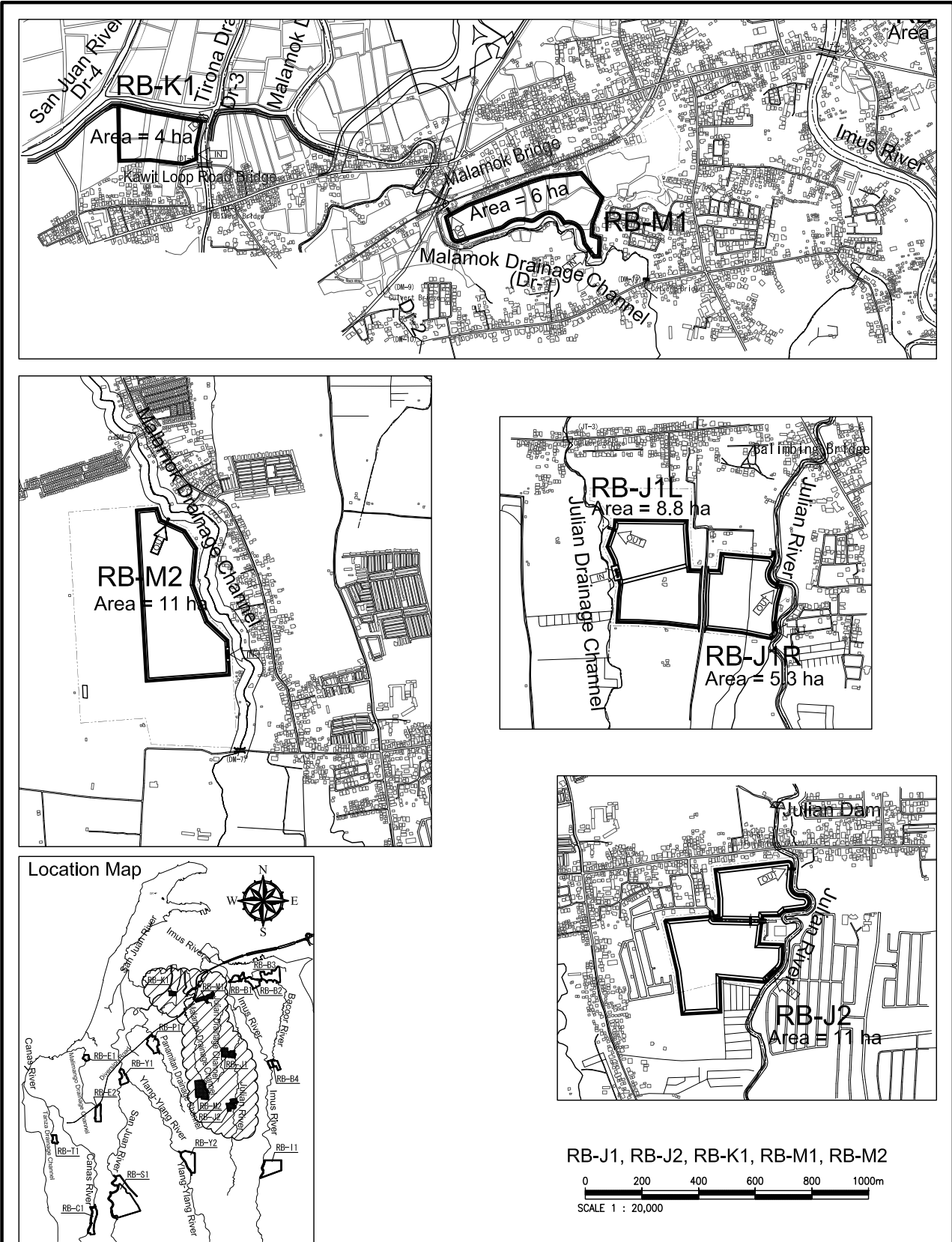
THE STUDY ON
 COMPREHENSIVE FLOOD MITIGATION
 FOR CAVITE LOWLAND AREA

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 Nippon Koei Co., Ltd

図 8.25

遊水地及び内水調整池の配置計画 (1/4)
 Imus/Bacoor川流域

(河川洪水対策10年、内水対策2年確率対応時)



THE STUDY ON
COMPREHENSIVE FLOOD MITIGATION
FOR CAVITE LOWLAND AREA

CTI Engineering International Co., Ltd.
Nippon Koei Co., Ltd

図 8.26

遊水地及び内水調整池の配置計画 (2/4)
Julian川流域及びKawit/Imus内水地区
(河川洪水対策10年、内水対策2年確率対応時)