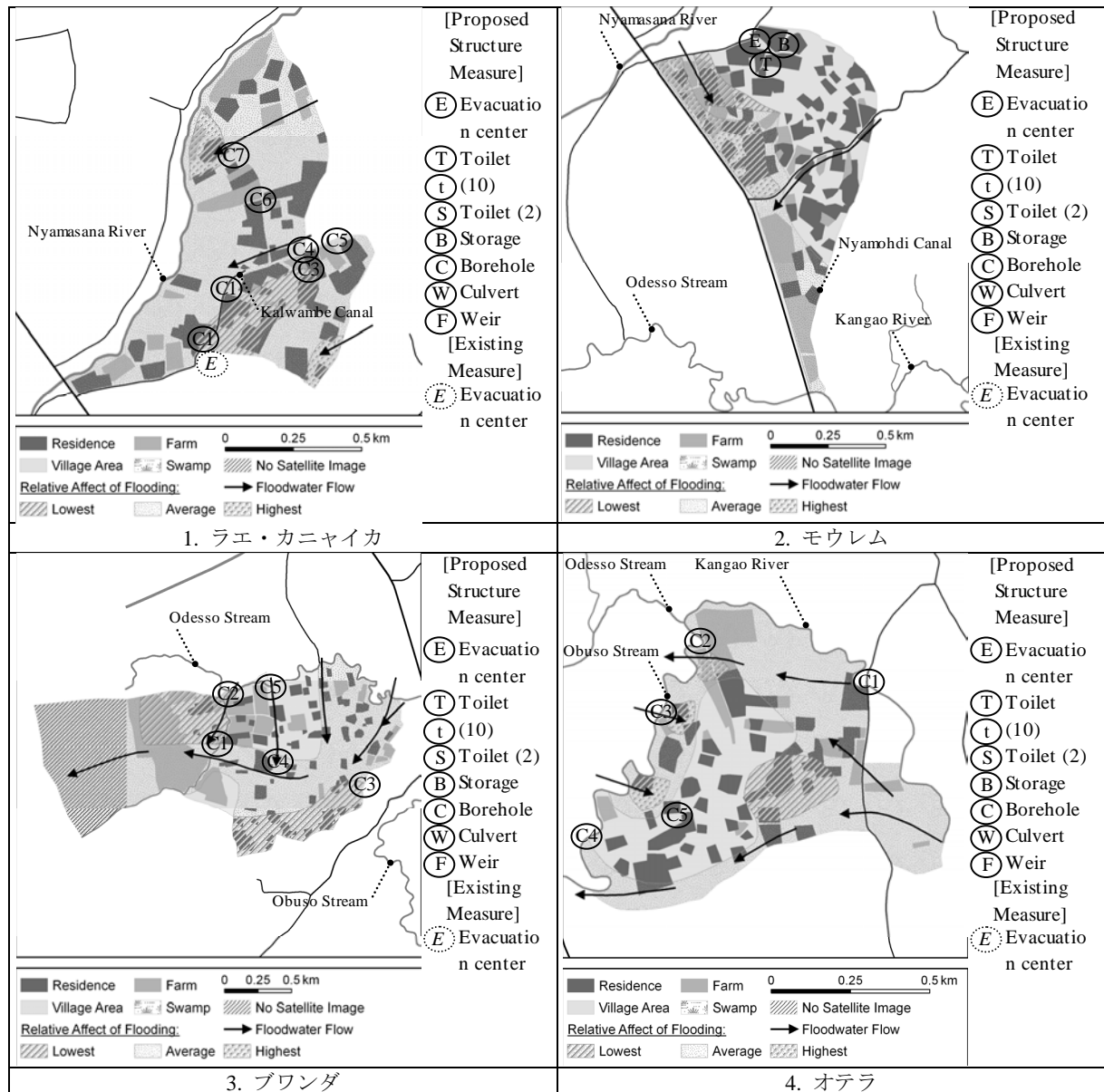
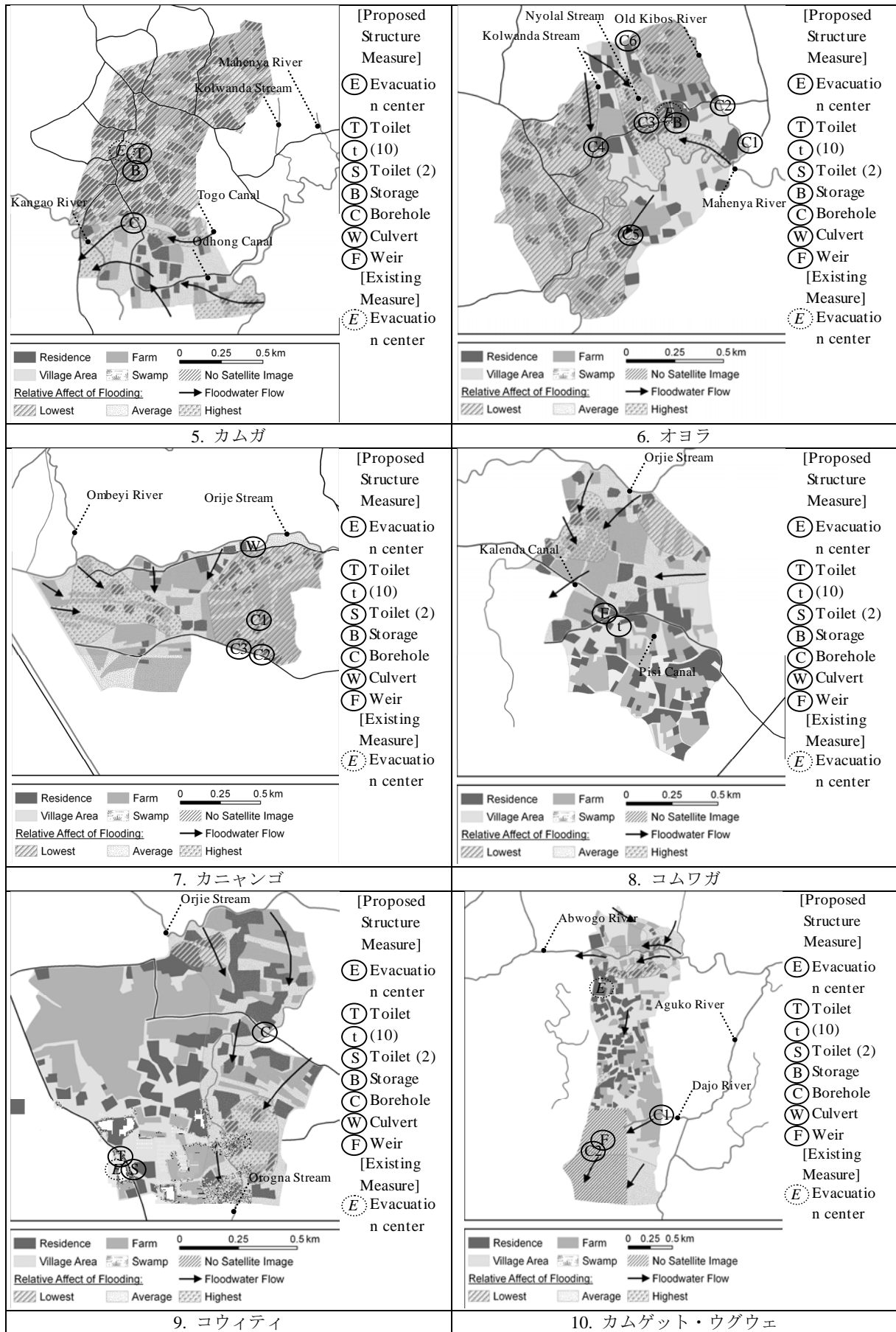

補足資料

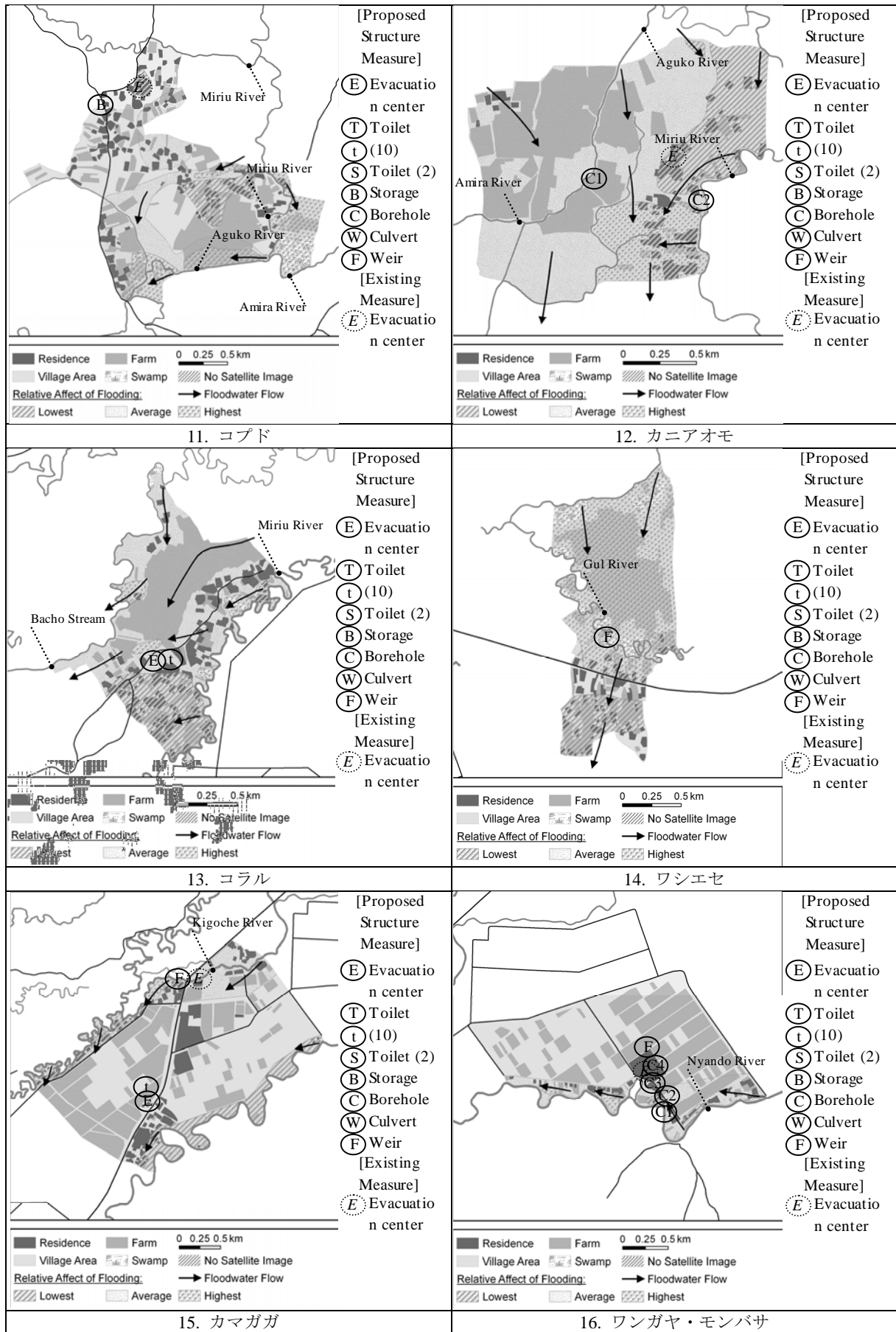
補足1 24村ごとの構造物対策の位置図



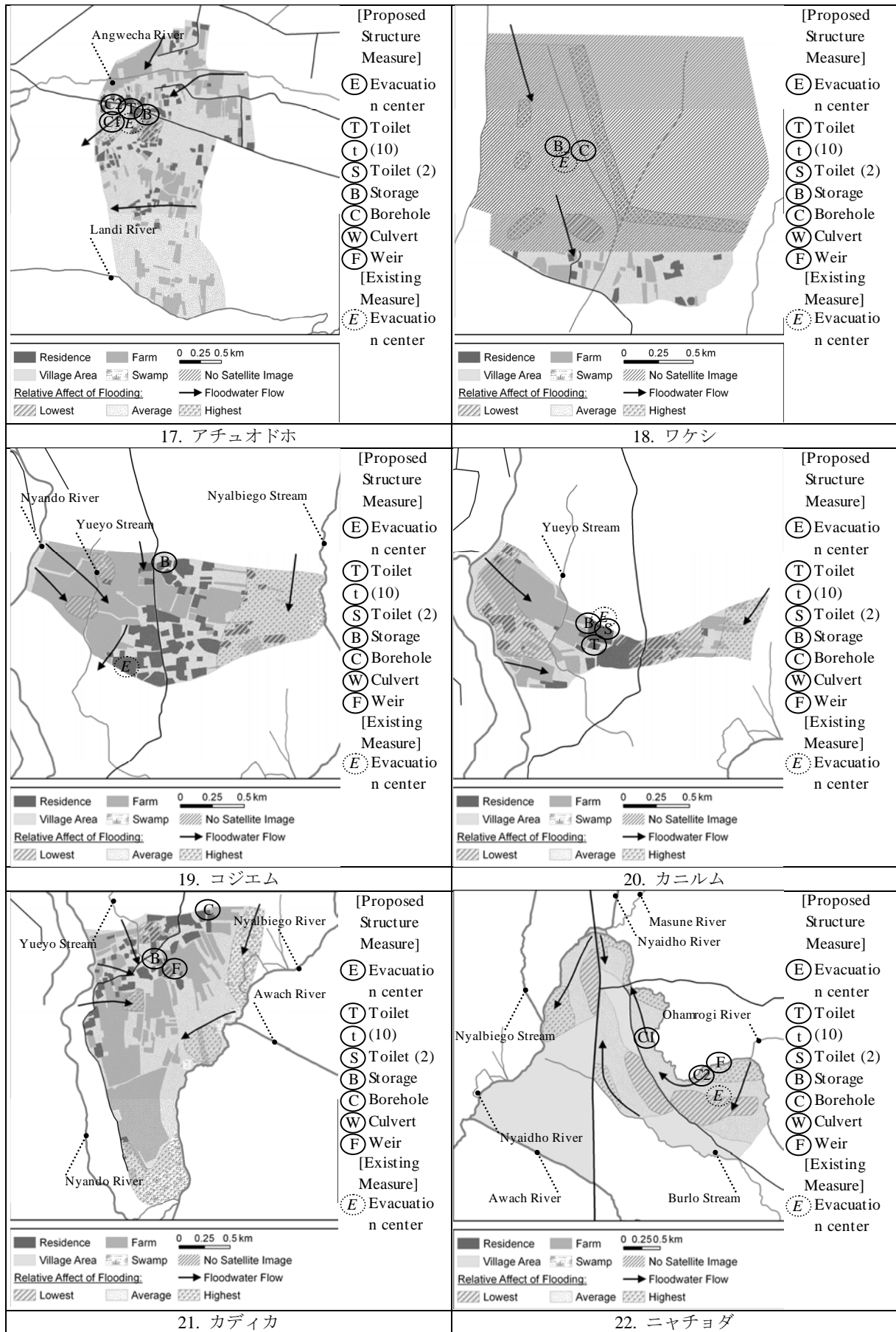
補図 1.1 構造物対策の位置図 (1/5)



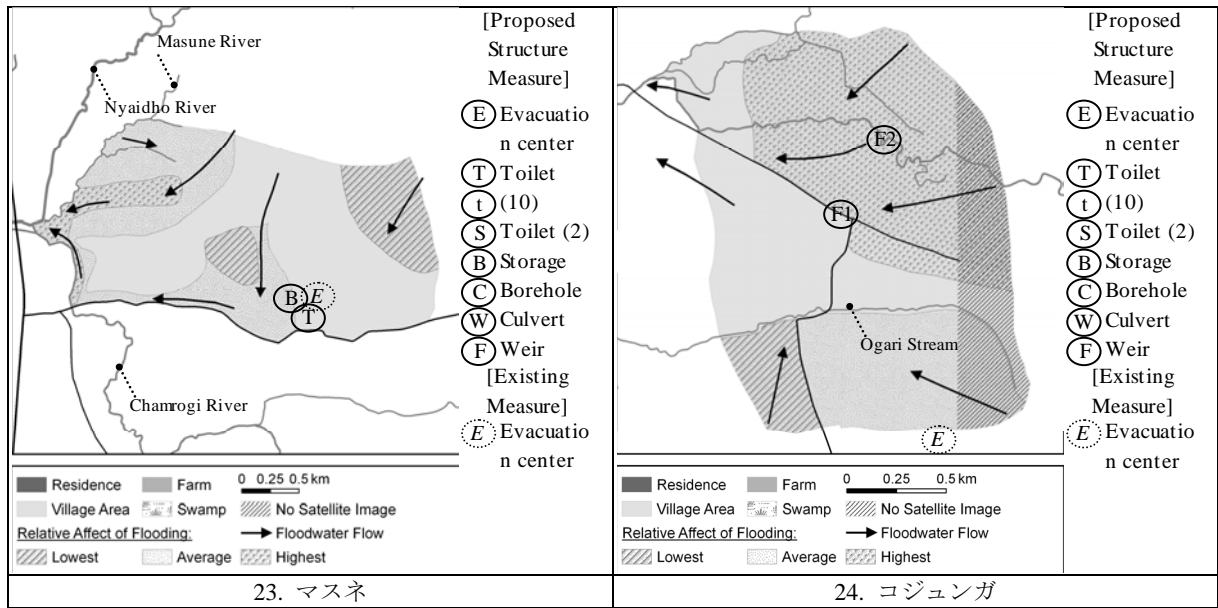
補図 1.1 構造物対策の位置図 (2/5)



補図 1.1 構造物対策の位置図 (3/5)



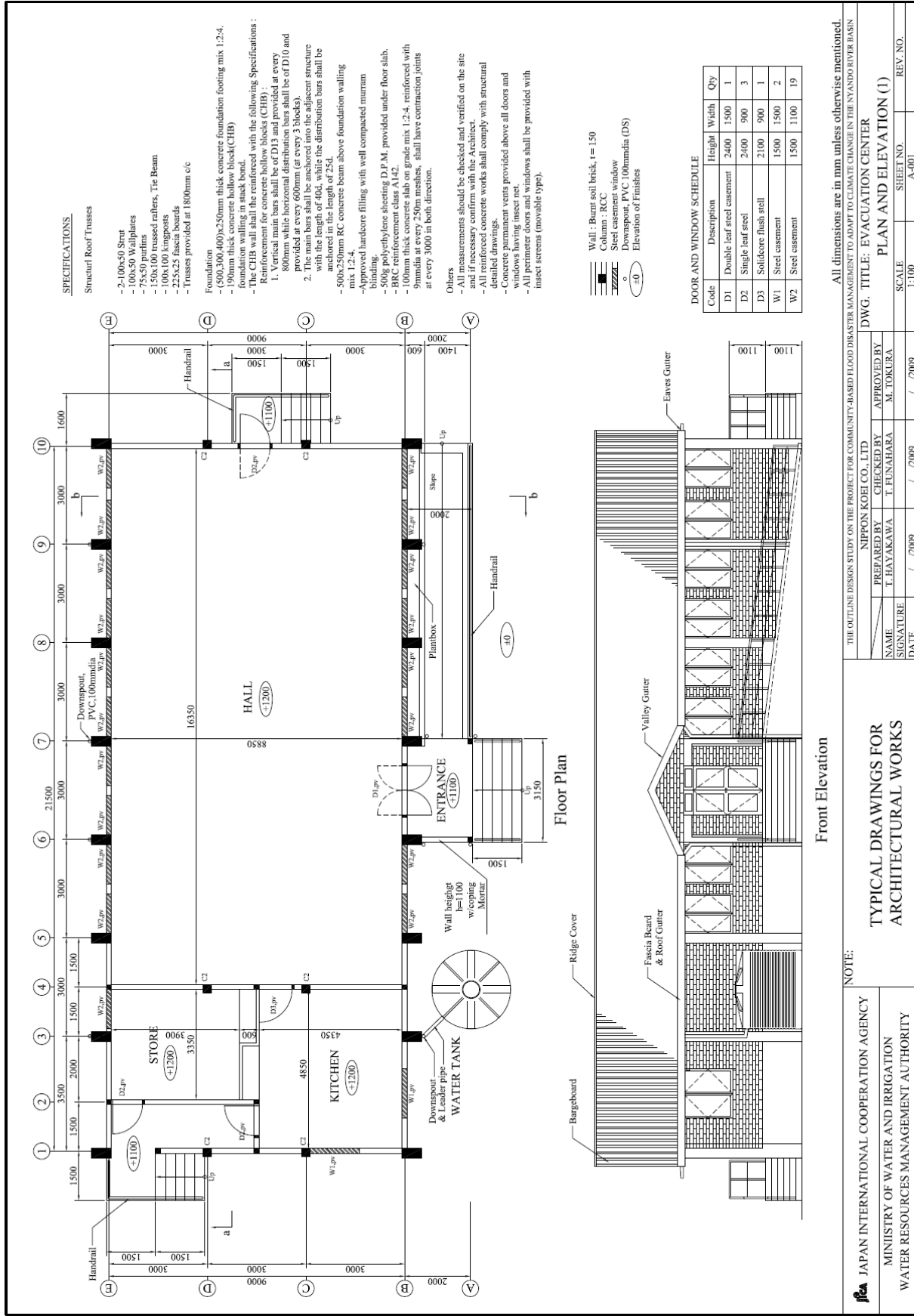
補図 1.1 構造物対策の位置図 (4/5)



補図 1.1 構造物対策の位置図 (5/5)

補足 2 概略設計図面集（建築物）

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補図 2.2	避難所：立面図.....	補-8
補図 2.3	トイレ（10室タイプ）：平面図及び立面図.....	補-9
補図 2.4	トイレ（2室タイプ）：平面図及び断面図.....	補-10
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補図 2.6	井戸：手押ポンプ標準図.....	補-12
補図 2.7	井戸：位置図及び標準断面図.....	補-13



SPECIFICATIONS

- Structural Roof Trusses**
- 2-100x50 Strut
 - 100x50 Wallplates
 - 75x50 purlins
 - 150x100 trussed rafters, Tie Beam
 - 100x100 Kingposts
 - 22x45x3 floor joists
 - Trusses provided at 1800mm c/c
- Foundation**
- (500,300,400)x250mm thick concrete foundation footing mix 1:2:4.
 - 190mm thick concrete hollow block(CHB) foundation walling in stack bond.
 - The CHB wall shall be reinforced with the following Specifications :
- Reinforcement for concrete hollow blocks (CHB) :**
1. Vertical main bars shall be of D13 and provided at every 800mm while horizontal distribution bars shall be of D10 and provided at every 400mm (at every 3 blocks).
 2. The concrete shall be cast in place against structure with the length of 400, while the distribution bars shall be anchored in the length of 254.
- 500x250mm RC concrete beam above foundation walling mix 1:2.4.
 - Approved hardcore filling with well compacted murrum binding.
 - 50kg polyethylene sheeting D.P.M. provided under floor slab.
 - BRC reinforcement class A142.
 - 100mm thick concrete slab on grade mix 1:2.4, reinforced with 9mm dia at every 250mm meshes. Shall have connection joints at every 3000 in both direction.
- Others**
- All measurements should be checked and verified on the site and if necessary confirm with the Architect.
 - All reinforced concrete works shall comply with structural detailed drawings.
 - Concrete permanent vents provided above all doors and windows having insect net.
 - All perimeter doors and windows shall be provided with insect screens (movable type).

- Wall : Burnt soil brick, t = 150
- Column : RCC
- Steel casement window
- Downspout, PVC 100mm dia (DS)
- Elevation of Finishes

DOOR AND WINDOW SCHEDULE

Code	Description	Height	Width	Qty
D1	Double leaf steel casement	2400	1500	1
D2	Single leaf steel	2400	900	3
D3	Solidcore flush steel	2100	900	1
W1	Steel casement	1500	1500	2
W2	Steel casement	1500	1100	19

All dimensions are in mm unless otherwise mentioned.

THE OUTLINE DESIGN STUDY ON THE PROJECT FOR COMMUNITY-BASED FLOOD DISASTER EVACUATION CENTER IN THE NYANDU RIVER BASIN

PREPARED BY NIPPON KOEI CO., LTD
CHECKED BY T. HAYAKAWA
APPROVED BY M. TOKURA

NAME T. HAYAKAWA
SIGNATURE
DATE / / 2009

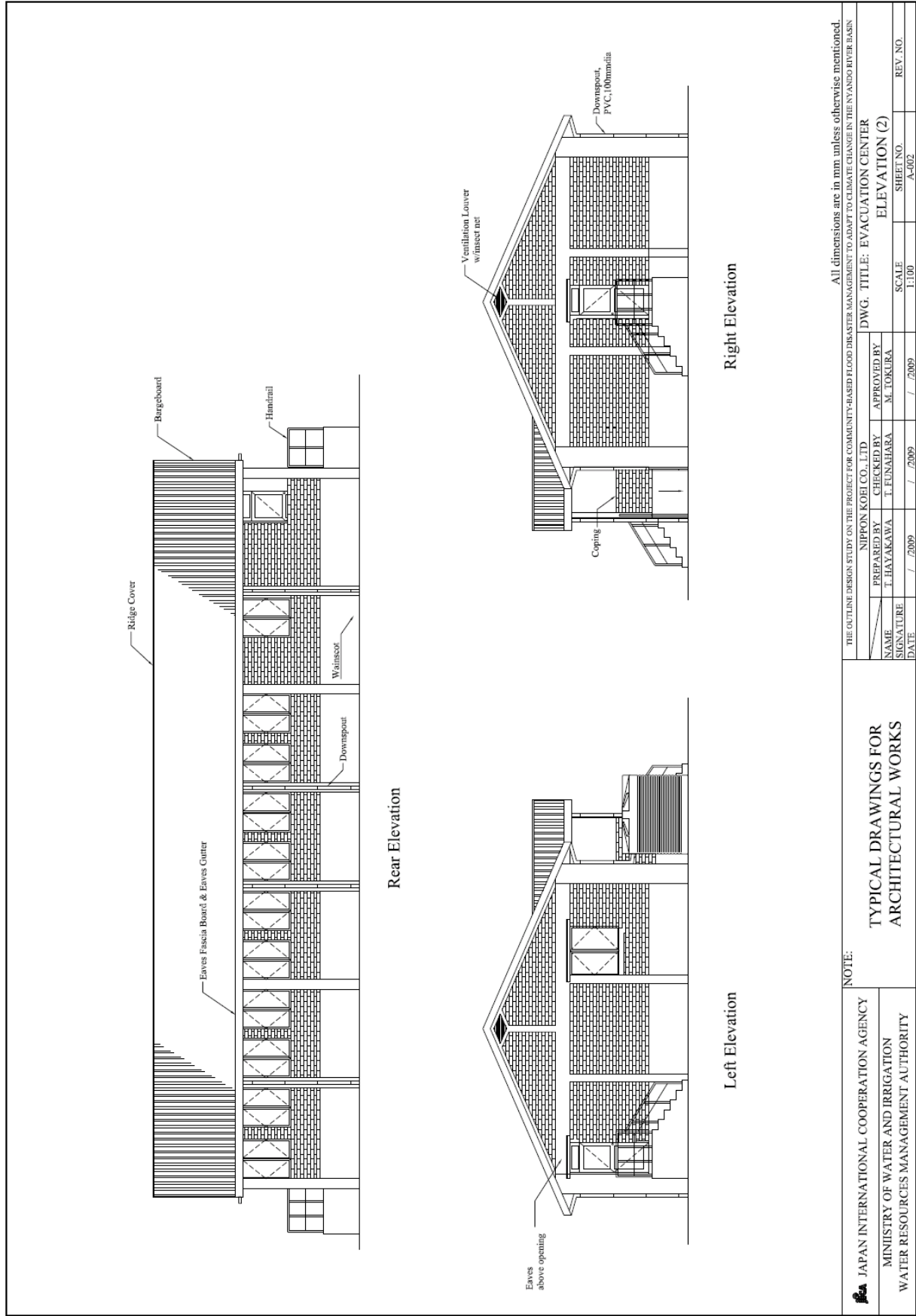
DWG. TITLE: EVACUATION CENTER
PLAN AND ELEVATION (1)

SCALE 1:100
SHEET NO. A-401
REV. NO.

NOTE:

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

補図 2.1 避難所：平面図及び立面図



補図 2.2 避難所：立面図

All dimensions are in mm unless otherwise mentioned.

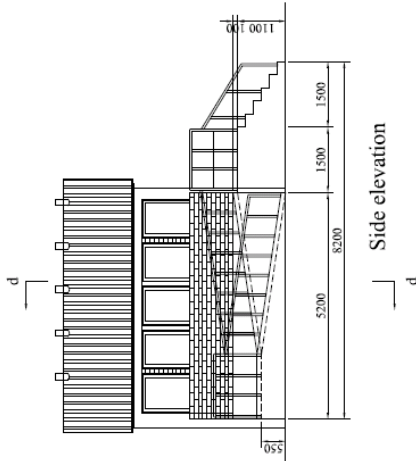
THE OUTLINE DESIGN STUDY ON THE PROJECT FOR COMMUNITY-BASED FLOOD DISASTER MANAGEMENT TO ADAPT TO CLIMATE CHANGE IN THE NYANDU RIVER BASIN			
NIPPON KOEI CO., LTD			
PREPARED BY	CHECKED BY	APPROVED BY	DWG. TITLE: EVACUATION CENTER
T. HAYAKAWA	T. FUNAHARA	M. TOKURA	ELEVATION (2)
SIGNATURE	DATE	SCALE	SHEET NO.
	/ / 2009	1:100	A-002
			REV. NO.

NOTE:
 JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

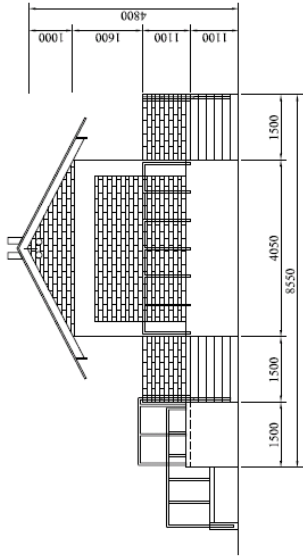
TYPICAL DRAWINGS FOR
 ARCHITECTURAL WORKS

SPECIFICATIONS

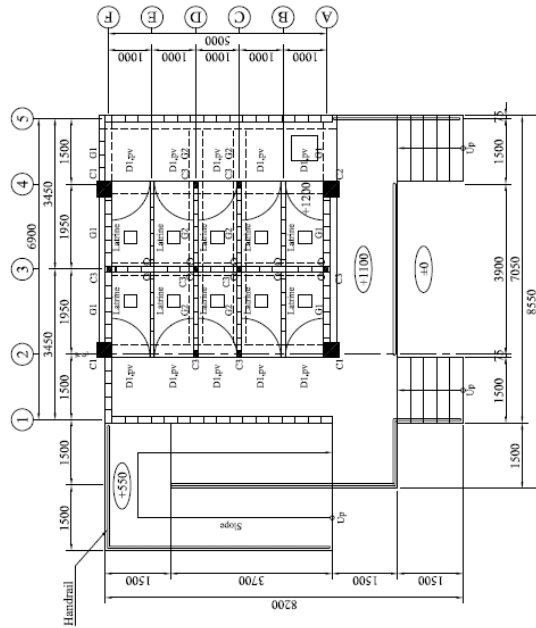
- Roofing**
- 1/2 round ridge cap
 - Galvanized iron sheets on 75x50 purlins
 - 100x50 rafters, trusses, walplates
 - 200x25 fascia boards
 - 22.5 inches roof pitch
- Walling**
- 150mm thick burnt brick wall reinforced with hoop iron at 500mm centres.
 - Ceramic tiles to the internal side.
- Pl**
- 300mm thick RC wall reinforced as shown in the structural drawings.
 - Smooth render to the inside with water proof cement.
- Others**
- Depth to be determined on site.
 - 200x200 ceramic tiles to the wall and floor internally.
 - Roof construction done to specification.
 - 600mm C1 manhole covers and frame light duty grade C



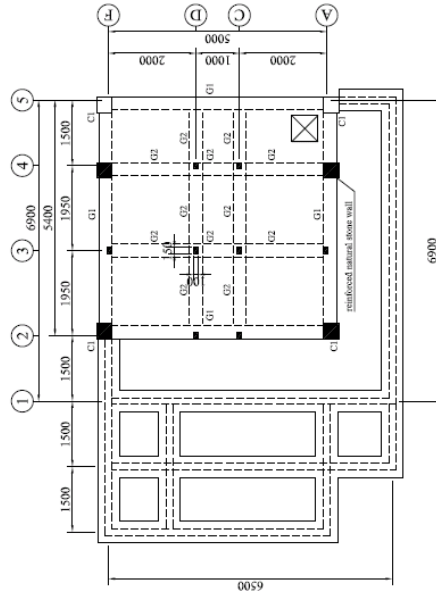
Side elevation



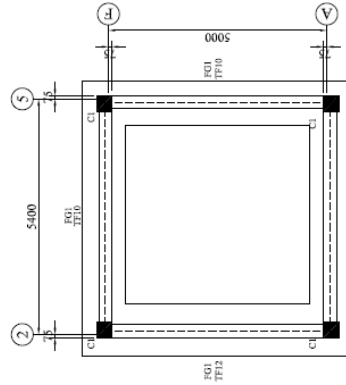
Front elevation



Floor plan a-a



Foundation plan (1) b-b



Foundation plan at bottom

DOOR SCHEDULE

Code	Description	Height	Width	Qty
D1	Timber Batten	2100	900	10

All dimensions are in mm unless otherwise mentioned.

NOTE:

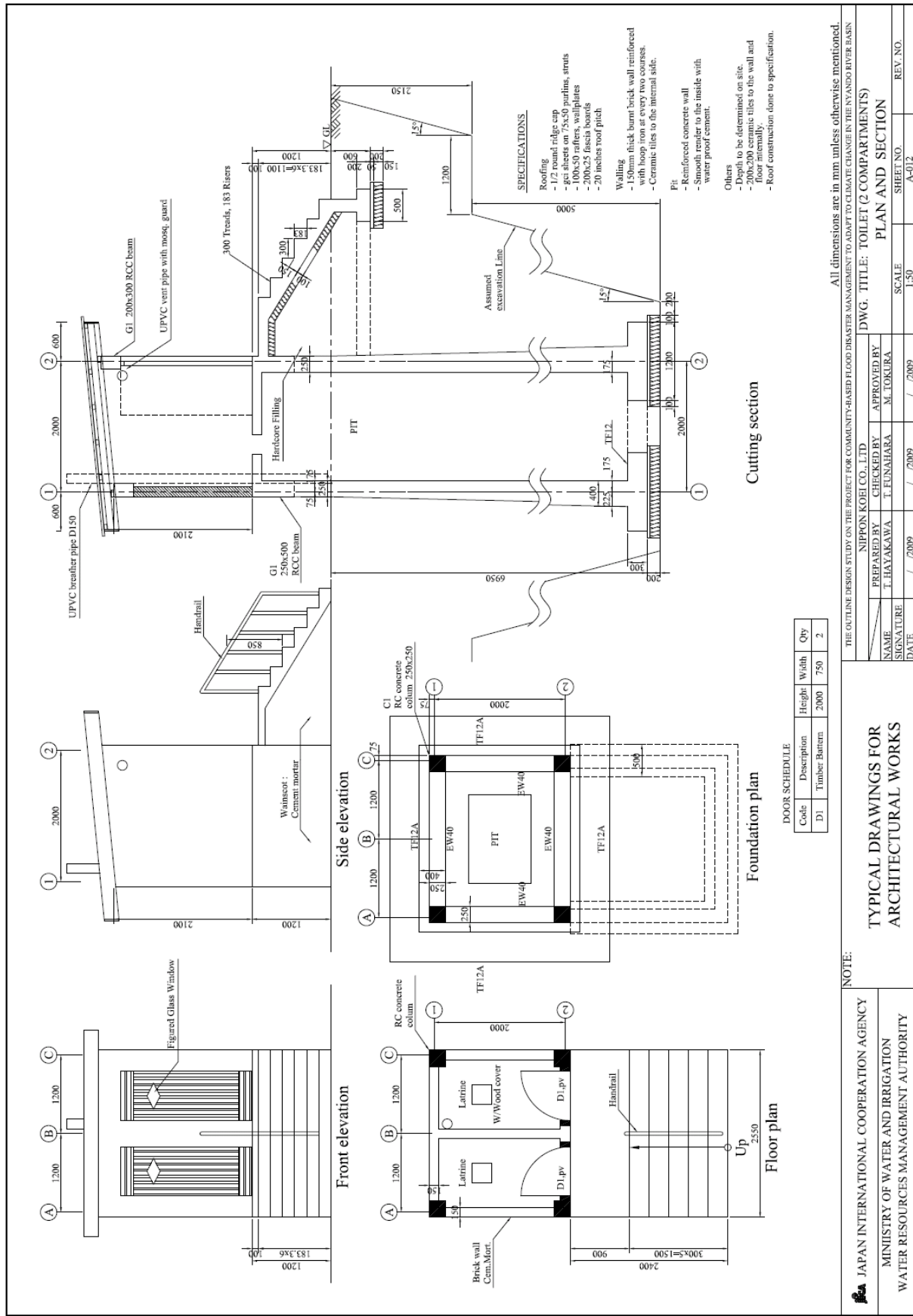
THE OUTLINE DESIGN STUDY ON THE PROJECT FOR COMMUNITY-BASED FLOOD DISASTER MANAGEMENT TO ADAPT TO CLIMATE CHANGE IN THE NYANDORO RIVER BASIN
 NIPPON KOHI CO., LTD
 PREPARED BY T. HAYAKAWA
 CHECKED BY T. FUNAHARA
 APPROVED BY M. TOKURA
DWG. TITLE: TOILET (10 COMPARTMENTS) PLAN AND ELEVATION

TYPICAL DRAWINGS FOR ARCHITECTURAL WORKS

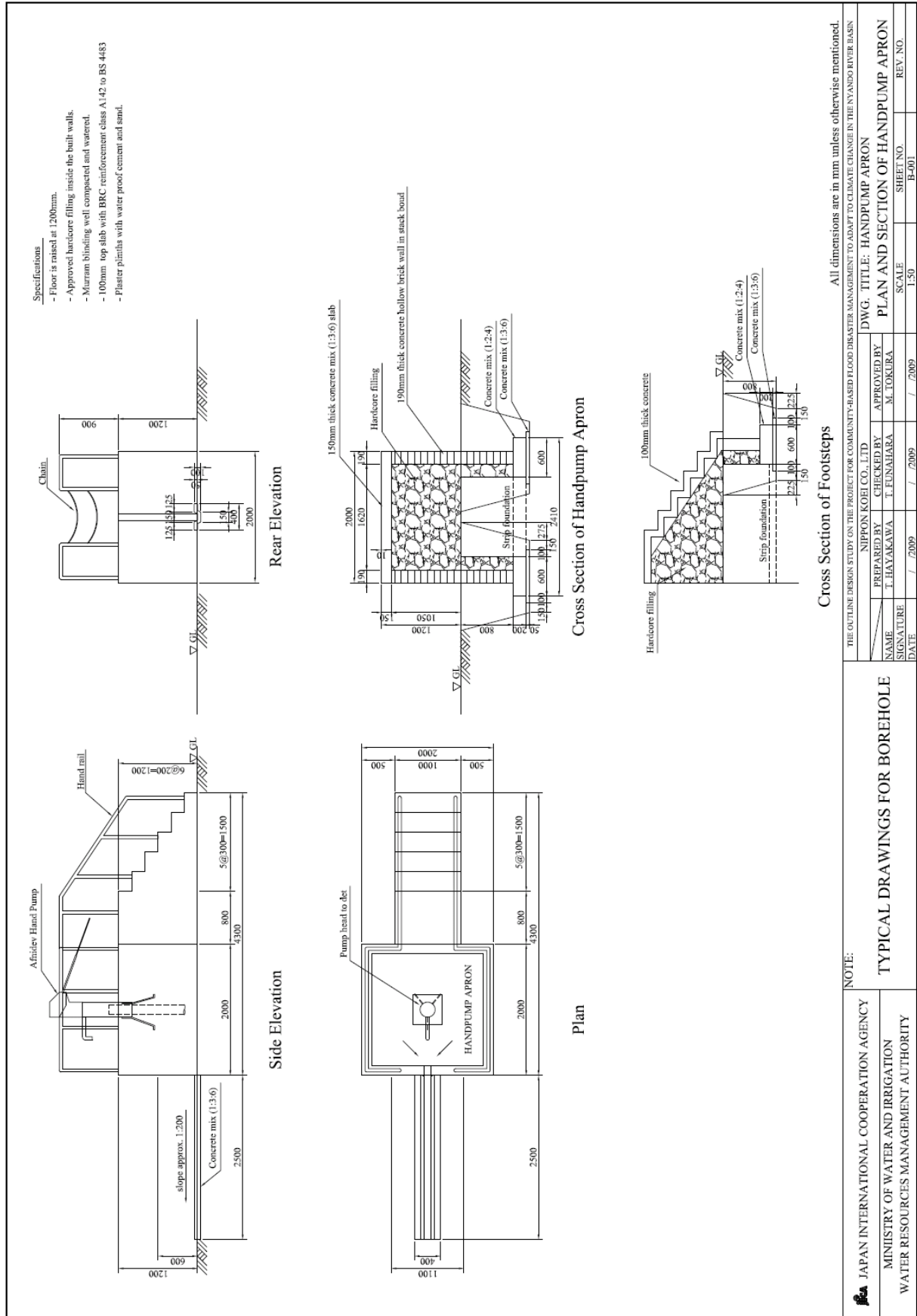
JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

SCALE 1:100
 SHEET NO. A-009
 REV. NO.

補図 2.3 トイレ (10 室タイプ) : 平面図及び立面図



補図 2.4 トイレ (2室タイプ) : 平面図及び断面図

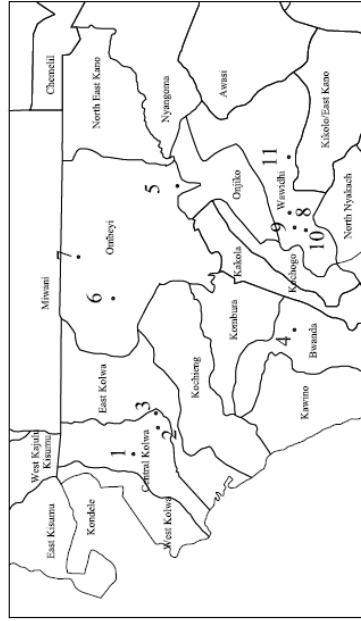


補図 2.6 井戸：手押ポンプ標準図

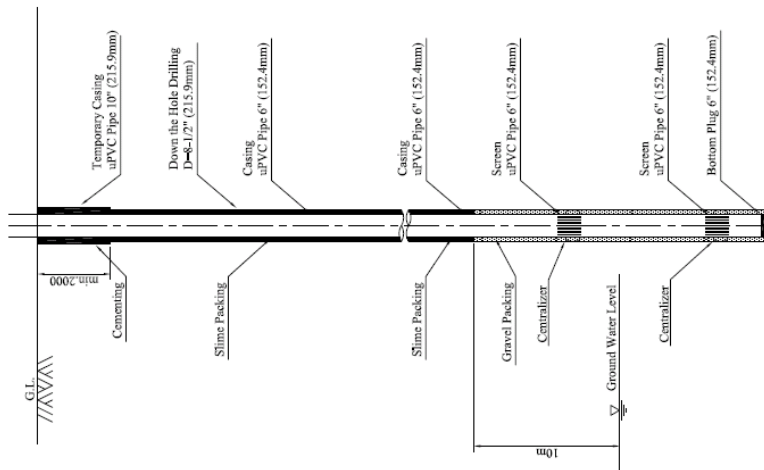
No	District	Community	Proposed Site	Longitude	Latitude	Borehole Depth GL- (m)
1	Kisumu	Mowlem	Rae Kanyaska Primary School	0°7'7.19" S	34°48'54.7" E	70
2		Kamuga	Ofunyu Primary School	0°7'6.47" S	34°49'53.8" E	90
3		Oyola	Oyola Primary School	0°7'6.14" S	34°49'2.43" E	100
4	Nyando	Wangyia Mombasa	Osembe Primary School	0°12'7.17" S	34°52'20.0" E	80
5		Achuadha	Achuadha Primary School	0°6'31.4" S	34°53'4.59" E	60
6		Wakesi	Ogwoeth Legio Maria Church	0°4'6.60" S	34°55'02.5" E	80
7		Kanyilum	Apondo Primary School	0°12'7.95" S	34°56'11.1" E	60
8		Kadika	Private Land	0°12'1.67" S	34°56'21.7" E	70
9		Masare	Ayweyo Primary School	0°12'5.19" S	34°58'7.69" E	70

Note: Borehole depths are estimated depths.

Table of Description



Locations of Proposed Site



Standard Concept of Borehole Structure S=1:30

All dimensions are in mm unless otherwise mentioned.

THE OUTLINE DESIGN STUDY ON THE PROJECT FOR COMMUNITY-BASED FLOOD DISASTER MANAGEMENT TO ADAPT TO CLIMATE CHANGE IN THE NYANDO RIVER BASIN NIPPON KOKI CO., LTD. DWG. TITLE: BOREHOLE		SHEET NO. B-003 REV. NO.	
PREPARED BY T. HAYAKAWA CHECKED BY T. FUNAHARA APPROVED BY M. TOKURA		LOCATION MAP AND TYPICAL SECTION SCALE	
SIGNATURE DATE / / 2009		SCALE / / 2009	
JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY		NOTE: TYPICAL DRAWINGS FOR BOREHOLE	

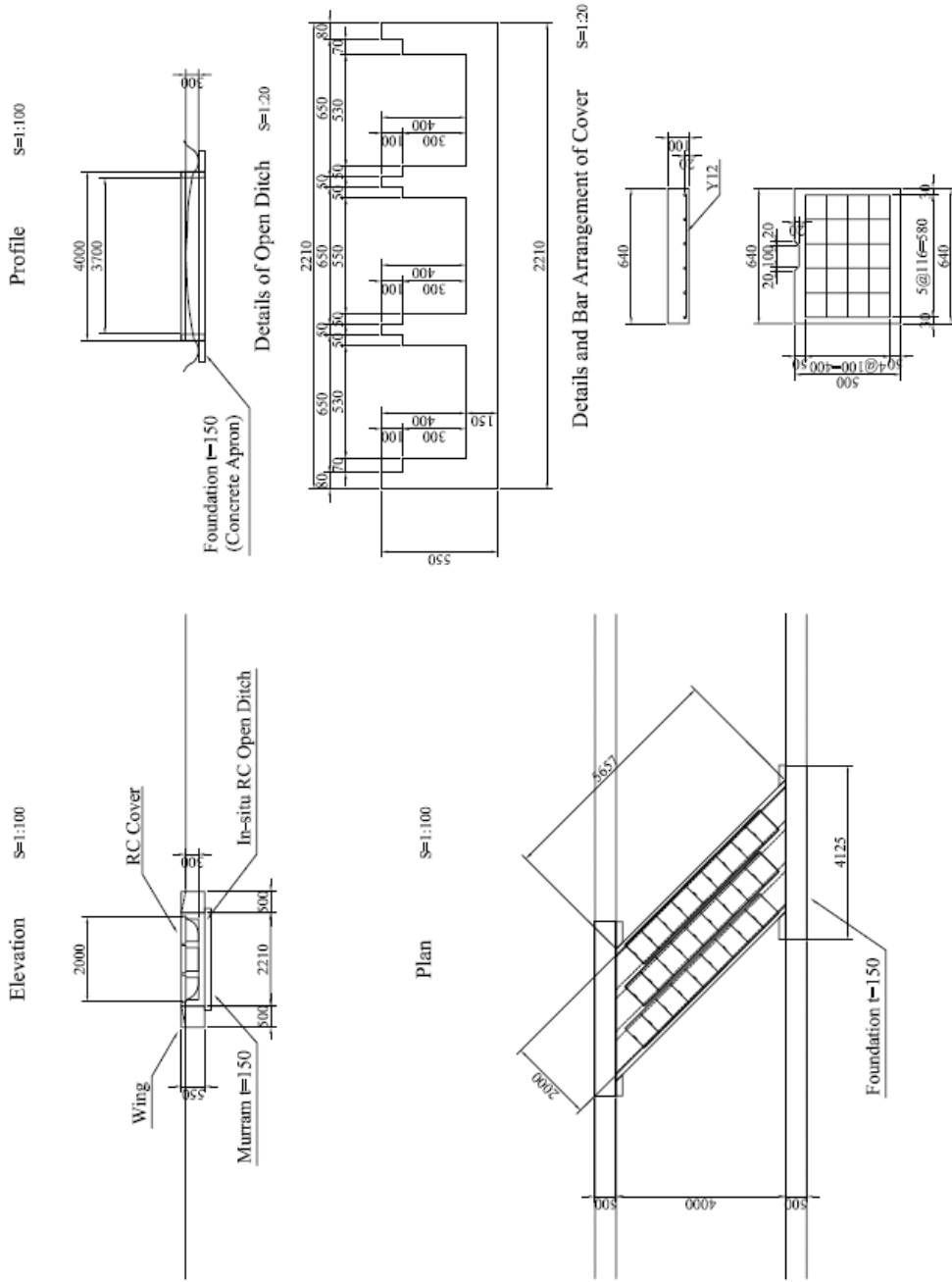
補図 2.7 井戸：位置図及び標準断面図

補足 3 概略設計図面集（土木構造物）

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補図 3.5	ラエ・カニヤイカ村：カルバート（5）	補-20
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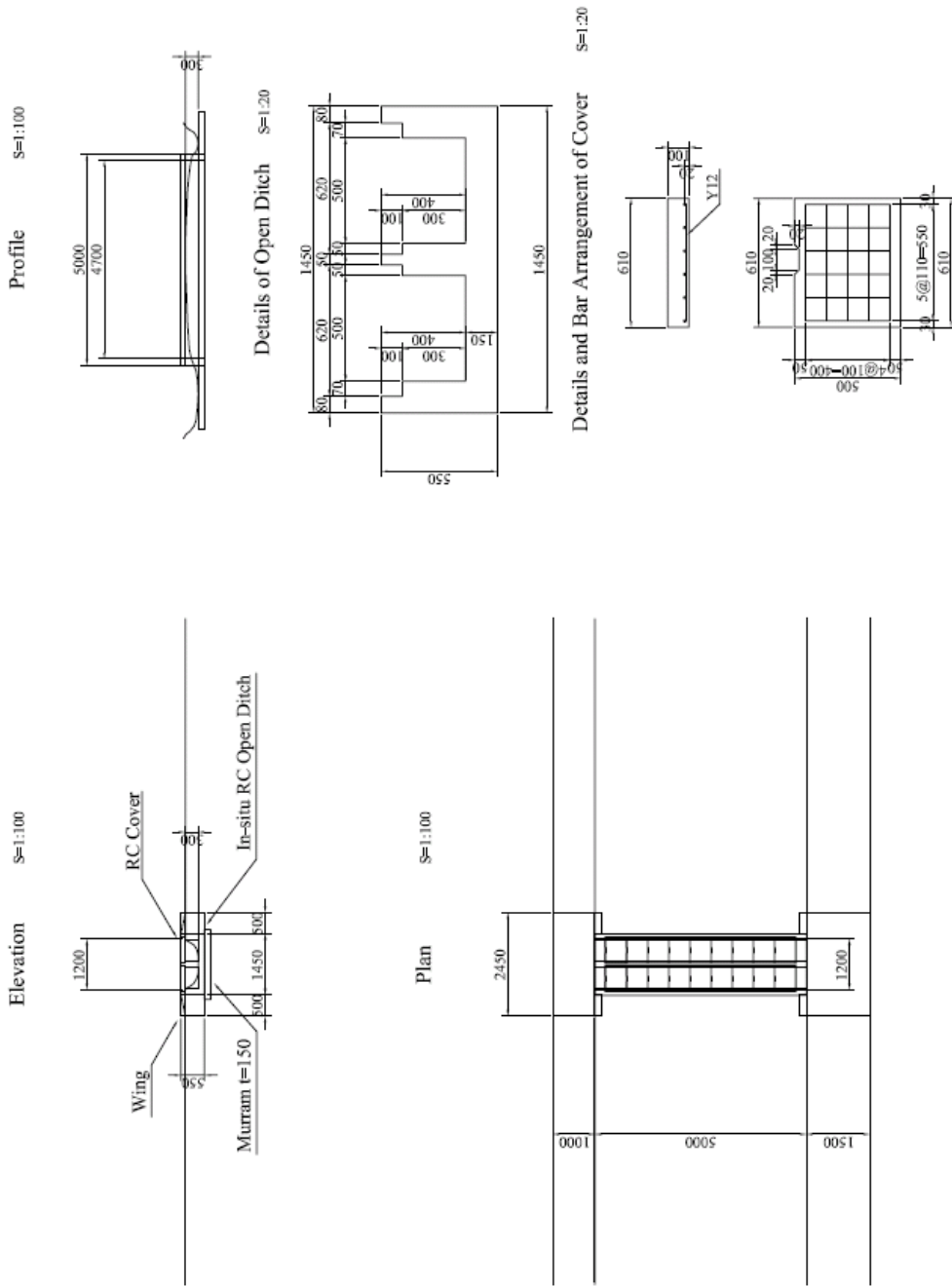
CULVERT (1)



JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY	NOTE: KISUMU DISTRICT KASULE SUB-LOCATION RAE KANYAIKA VILLAGE		THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN DWG. TITLE: CULVERT (1)	
	PREPARED BY A. MORIOKA	CHECKED BY T. HAYAKAWA	APPROVED BY M. TOKURA	GENERAL SHEET NO. 01/01 SCALE 1:100 DATE / / 2009 / 2009
				REF. NO. 01/01

補図 3.1 ラエ・カニヤイカ村：カルバート (1)

CULVERT (2)

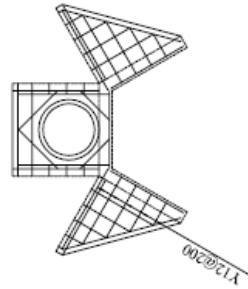


<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>NOTE: KISUMU DISTRICT KASULE SUB-LOCATION RAE KANYAIKA VILLAGE</p>		<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN DWG. TITLE: CULVERT (2) GENERAL</p>	
NAME	A. MORIOKA	CHECKED BY	T. HAYAKAWA	APPROVED BY	M. TOKURA
SIGNATURE		DATE	/ / 2009	SCALE	1:100
			/ / 2009	SHEET NO.	01/02
				REV. NO.	

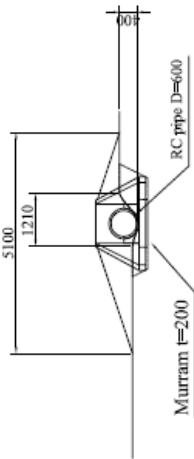
補図 3.2 ラエ・カニヤイカ村：カルバート (2)

CULVERT (3)

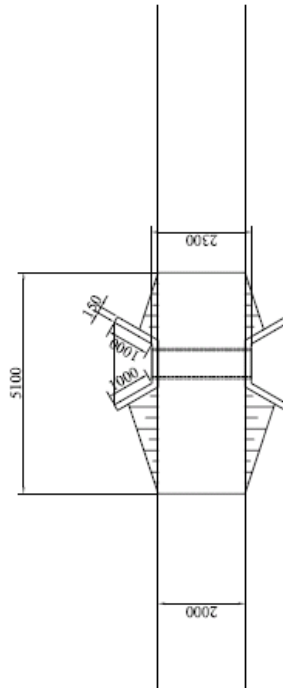
Bar Arrangement of Inlet/Outlet (Sample) S=1:50




Elevation S=1:100



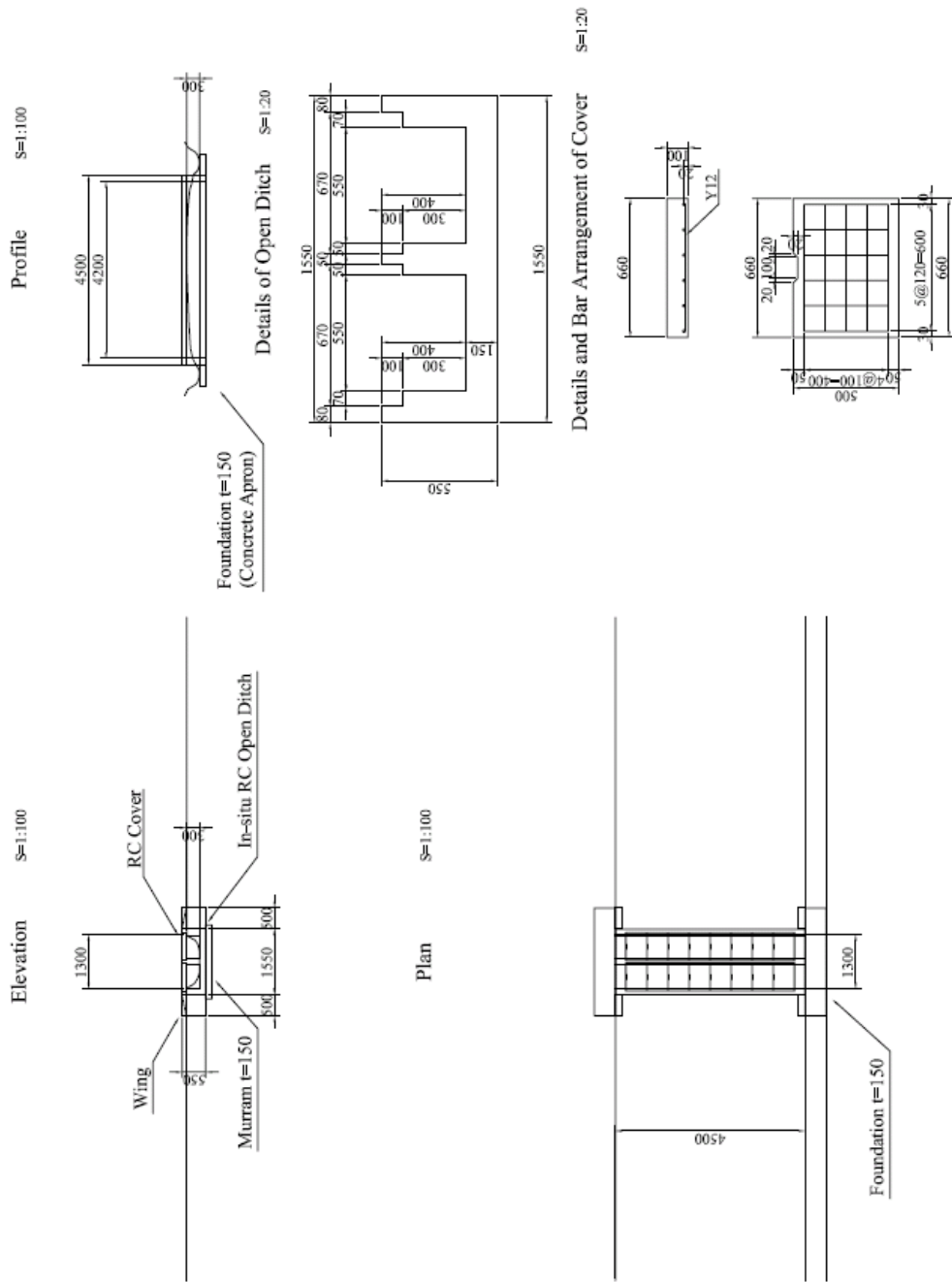
Plan S=1:100



 JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY	NOTE: KISUMU DISTRICT KASULE SUB-LOCATION RAE KANYAIKA VILLAGE		THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN DWG. TITLE: CULVERT (3)			
	PREPARED BY A. MOROKA	CHECKED BY T. HAYAKAWA	APPROVED BY M. TOKURA	SCALE 1:500	SHEET NO. 01203	REV. NO.

補図 3.3 ラエ・カニヤイカ村：カルバート (3)

CULVERT (4)

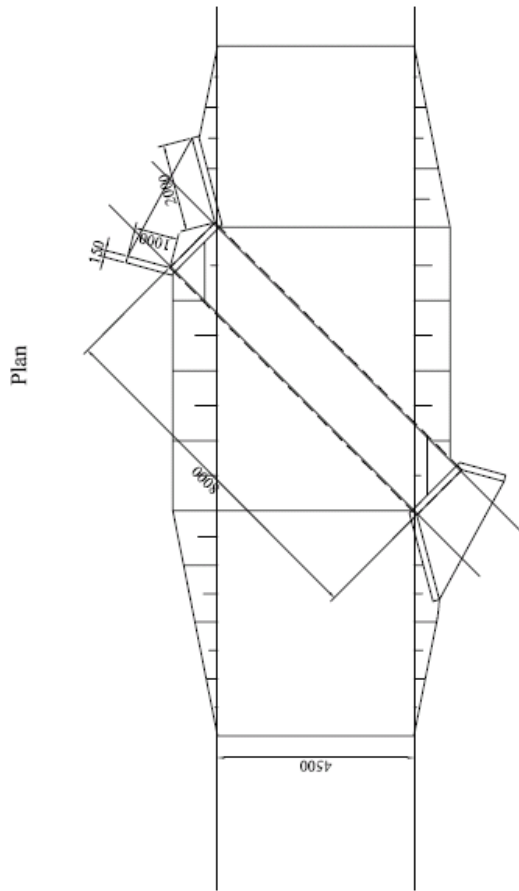
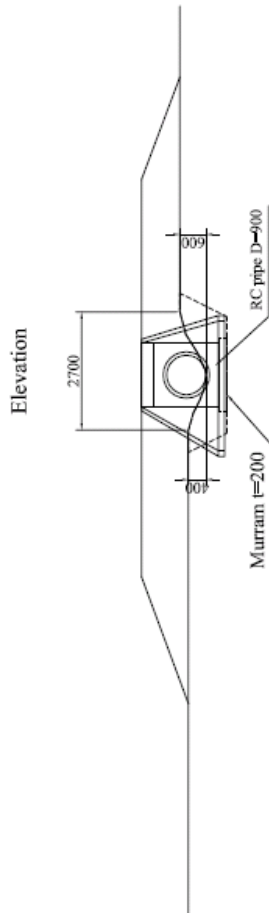
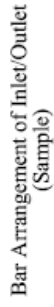
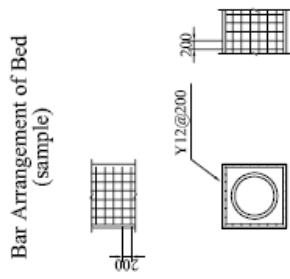


JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY		NOTE: KISUMU DISTRICT KASULE SUB-LOCATION RAE KANYAIKA VILLAGE		TIME OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN NIPPON KOEI CO., LTD DWG. TITLE: CULVERT (4)	
NAME	A. MORIOKA	CHECKED BY	T. HAYAKAWA	APPROVED BY	M. TOKURA
SIGNATURE		DATE	/ 2009		/ 2009
		SCALE	1:100	SHEET NO.	01/04
				REV. NO.	

補図 3.4 ラエ・カニヤイカ村：カルバート (4)

CULVERT (5)

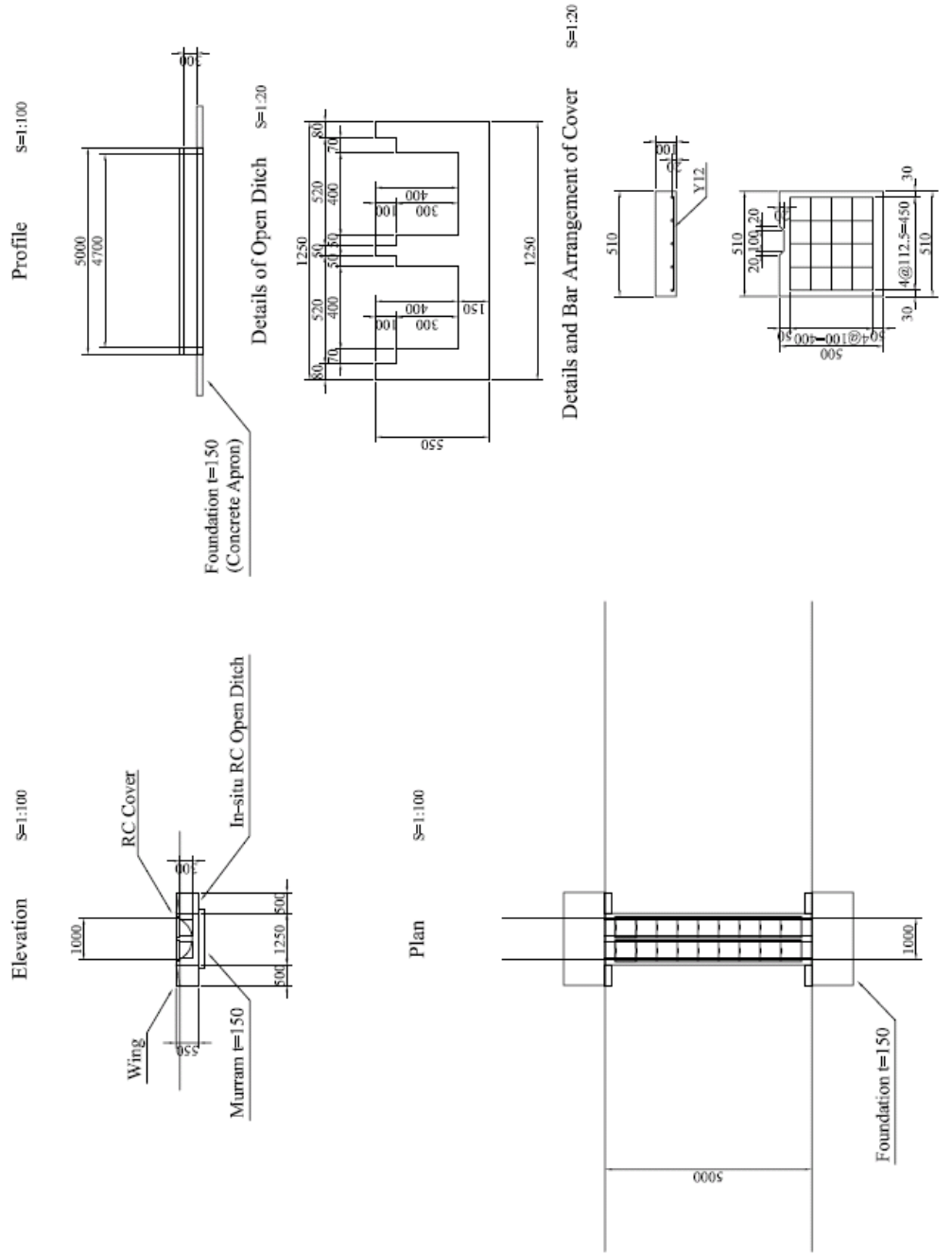
S=1:100



JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY		NOTE: KISUMU DISTRICT KASULE SUB-LOCATION RAE KANYAIKA VILLAGE		THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN DWG. TITLE: CULVERT (5)	
NAME	A. MORIOKA	CHECKED BY	T. HAYAKAWA	APPROVED BY	M. USUKUBA
SIGNATURE					
DATE	/ / 2009		/ / 2009		/ / 2009
				SCALE	1:100
				SHEET NO.	01-005
				REV. NO.	

補図 3.5 ラエ・カニヤイカ村：カルバート (5)

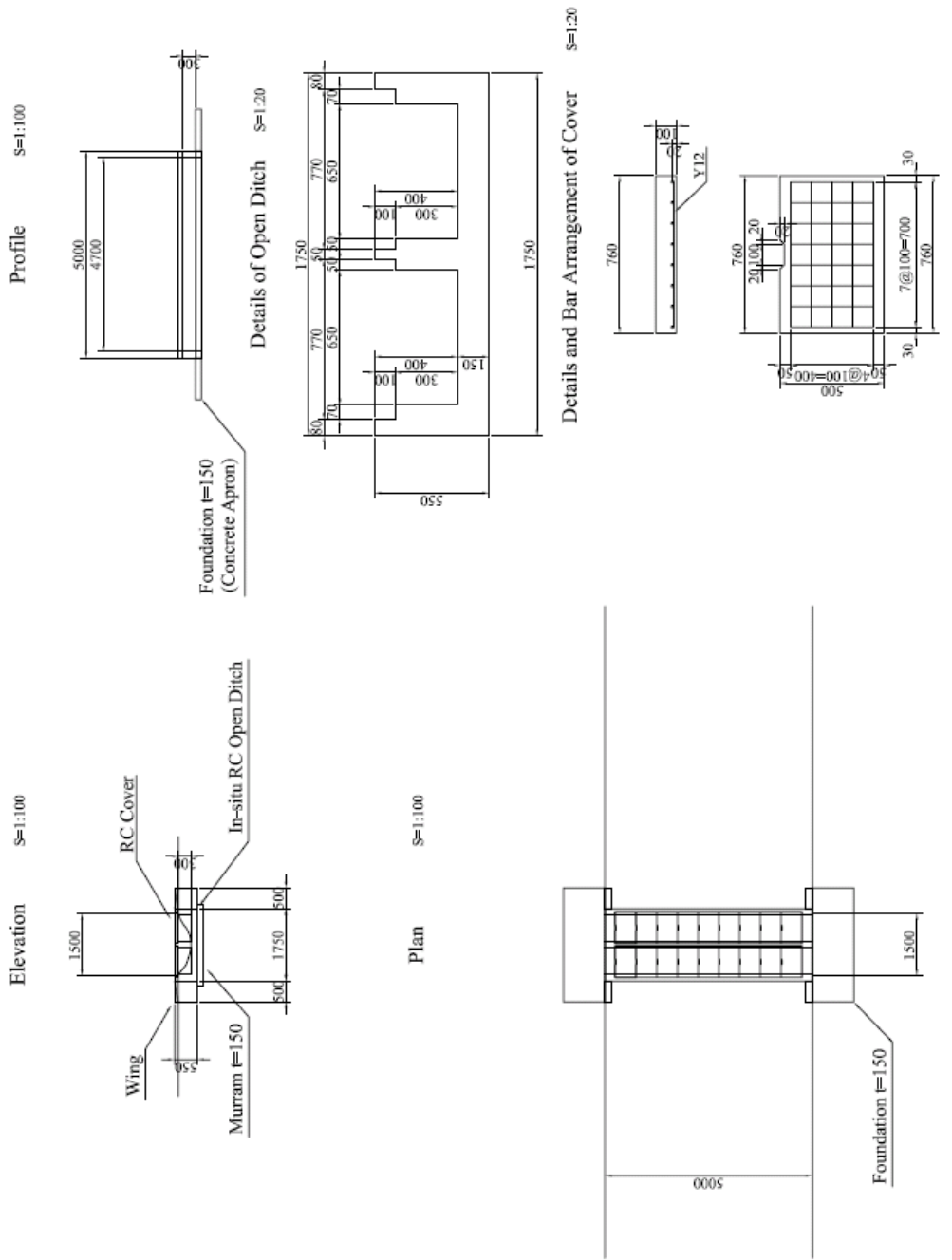
CULVERT (6)



<p>NOTE:</p> <p>KISUMU DISTRICT KASULE SUB-LOCATION RAE KANYAIKA VILLAGE</p>		<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN</p> <p>NIPPON KOEI CO., LTD DWG. TITLE: CULVERT (6)</p>	
<p>PREPARED BY A. MORIOKA</p>	<p>CHECKED BY T. HAYAKAWA</p>	<p>APPROVED BY M. TOKURA</p>	<p>GENERAL</p>
<p>SIGNATURE</p>	<p>DATE</p>	<p>SCALE</p>	<p>SHEET NO.</p>
<p>DATE</p>	<p>DATE</p>	<p>SCALE</p>	<p>REV. NO.</p>
<p>1/2009</p>	<p>1/2009</p>	<p>1:100</p>	<p>01-006</p>

補図 3.6 ラエ・カニヤイカ村：カルバート (6)

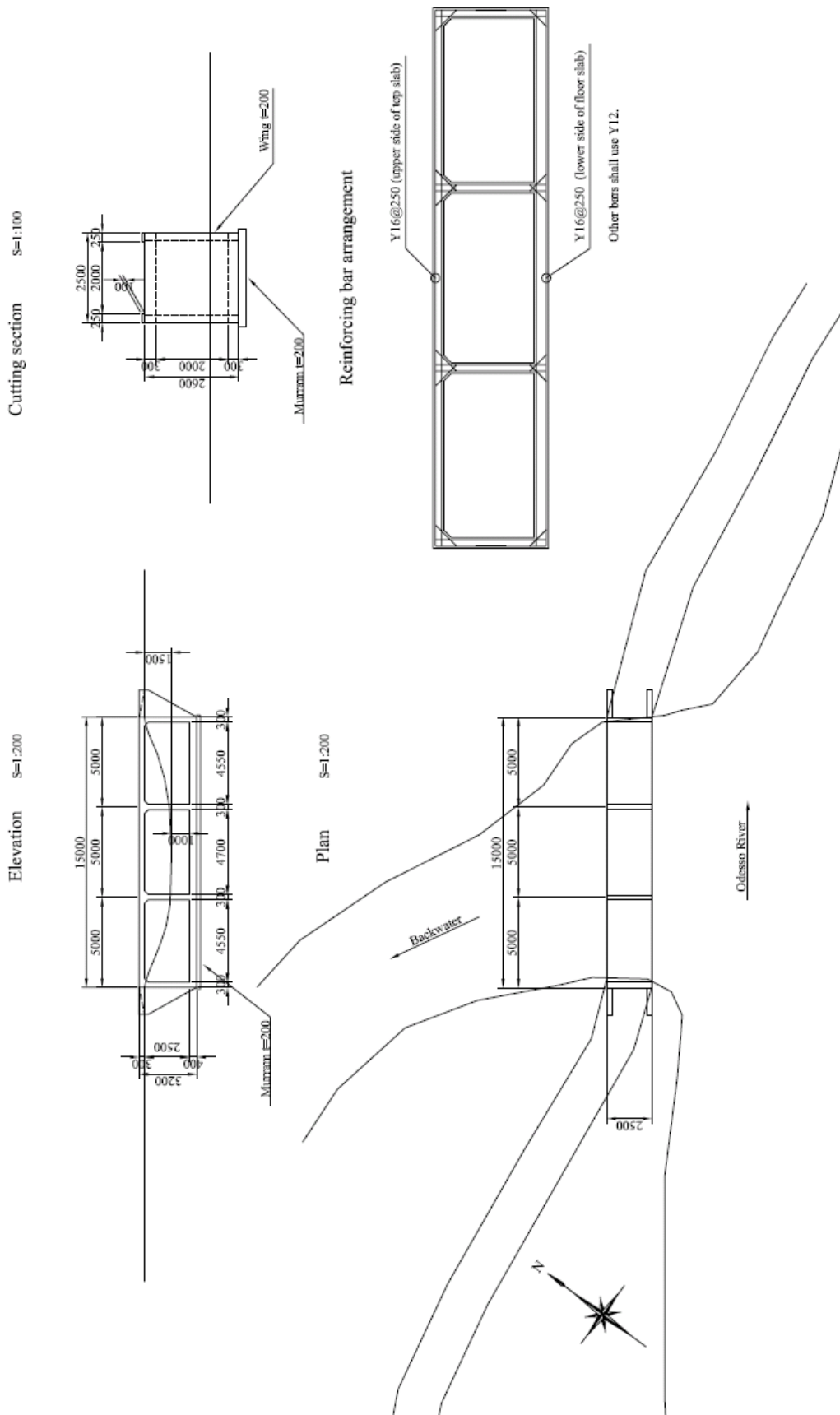
CULVERT (7)



<p>NOTE:</p> <p>KISUMU DISTRICT KASULE SUB-LOCATION RAE KANYAIKA VILLAGE</p>		<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN</p> <p>NIPPON KOEI CO., LTD DWG. TITLE: CULVERT (7)</p>	
<p>PREPARED BY A. MORIOKA</p>	<p>CHECKED BY T. HAYAKAWA</p>	<p>APPROVED BY M. TOKURA</p>	<p>GENERAL</p>
<p>SIGNATURE DATE</p>	<p>SCALE 1:100</p>	<p>SHEET NO. 01-007</p>	<p>REV. NO.</p>

補図 3.7 ラエ・カニヤイカ村：カルバート (7)

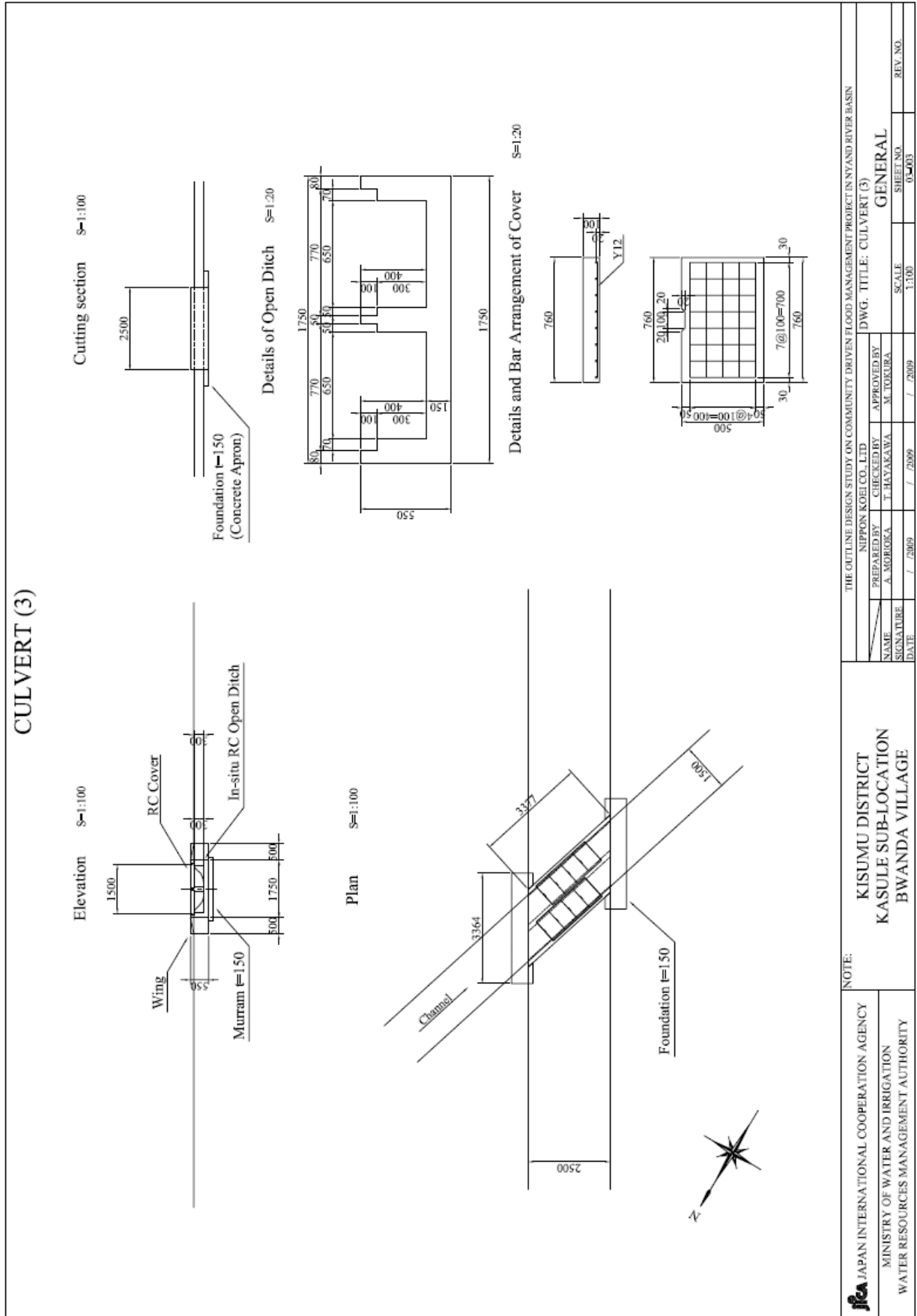
CULVERT (2)



ifca JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY		NOTE: KISUMU DISTRICT KASULE SUB-LOCATION BWANDA VILLAGE		THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN DWG. TITLE: CULVERT (2)	
NAME	PREPARED BY	SELECTED BY	APPROVED BY	SCALE	REV. NO.
DATE	A. MORIGAKI	T. HAYAKAWA	M. TOKURA	1:200	04-002
	/ / 2009	/ / 2009	/ / 2009		

補図 3.9 ブワンダ村：カルバート (2)

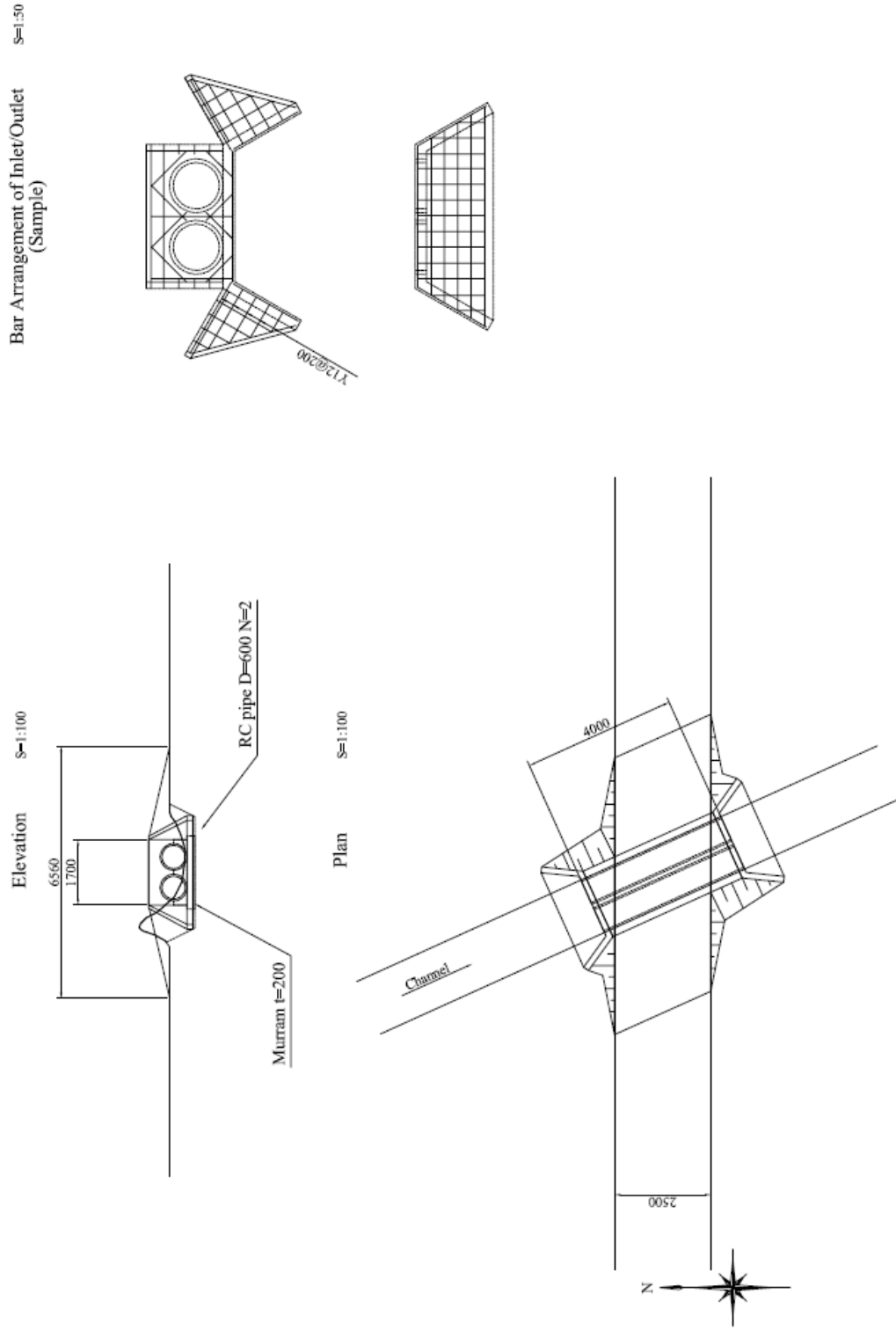
CULVERT (3)



<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN YAND RIVER BASIN</p> <p>NIPPON KOEI CO., LTD. DWG. TITLE: CULVERT (3)</p>			
<p>PREPARED BY A. MORIYAMA</p>	<p>CHECKED BY T. HAYAKAWA</p>	<p>APPROVED BY M. TOKURA</p>	
<p>SIGNATURE</p>	<p>DATE</p>	<p>SCALE</p>	<p>SHEET NO.</p>
<p>/ 2009</p>	<p>/ 2009</p>	<p>1:100</p>	<p>05/03</p>
<p>NOTE:</p>		<p>GENERAL</p>	
<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY</p> <p>MINISTRY OF WATER AND IRRIGATION</p> <p>WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>KISUMU DISTRICT</p> <p>KASULE SUB-LOCATION</p> <p>BWANDA VILLAGE</p>	
		<p>REV. NO.</p>	<p>REV. NO.</p>

補図 3.10 プワンダ村 : カルバート (3)

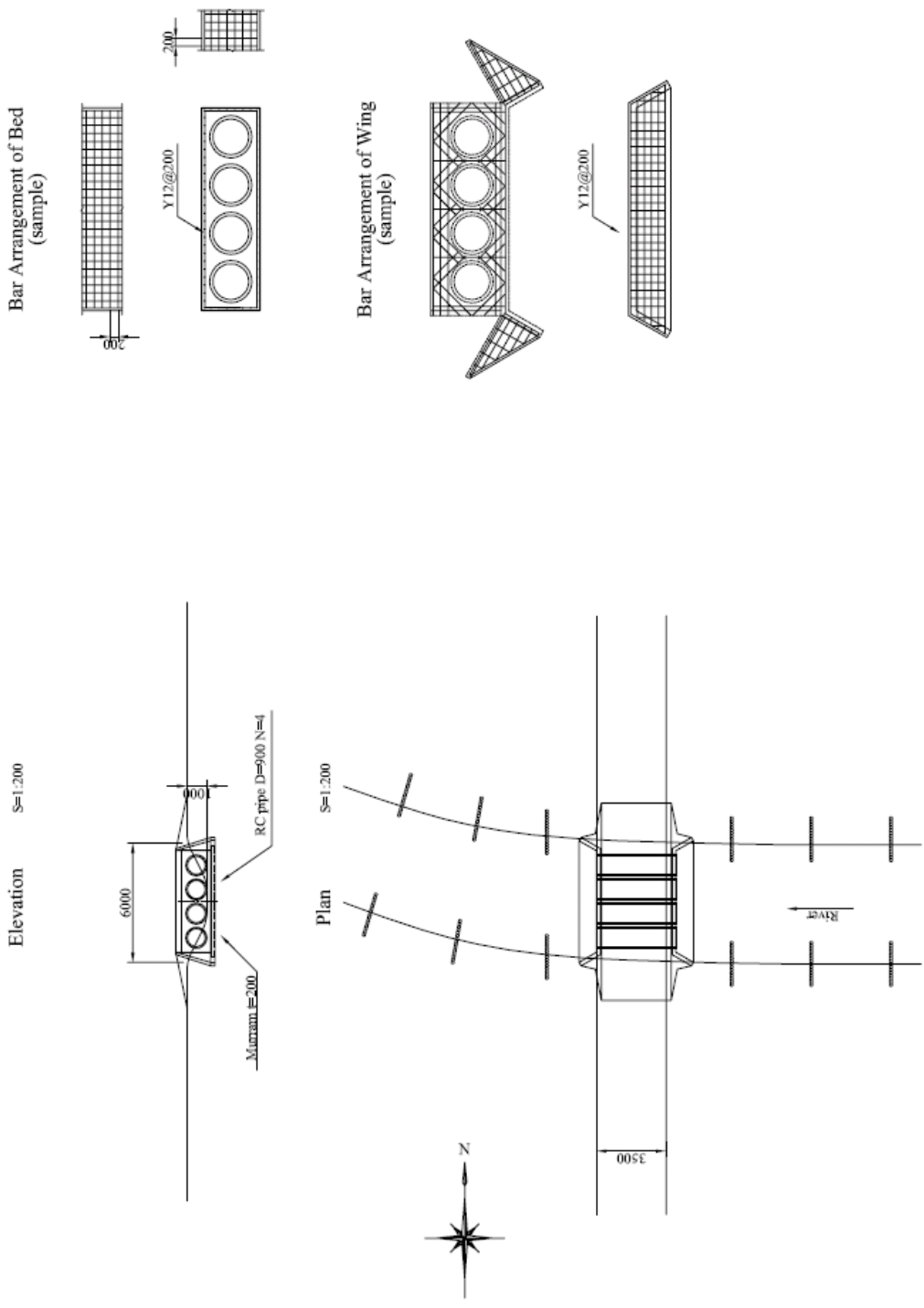
CULVERT (4)



JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY		NOTE: KISUMU DISTRICT KASULE SUB-LOCATION BWANDA VILLAGE		THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYANDI RIVER BASIN NIPPON KOGI CO. LTD. DWG. TITLE: CULVERT (4)	
NAME	A. MORIOKA	CHECKED BY	T. HAYAKAWA	APPROVED BY	M. TOKURA
SIGNATURE		DATE	/ 2009	/ 2009	/ 2009
		SCALE	1:100	SHEET NO.	03-004
				REV. NO.	

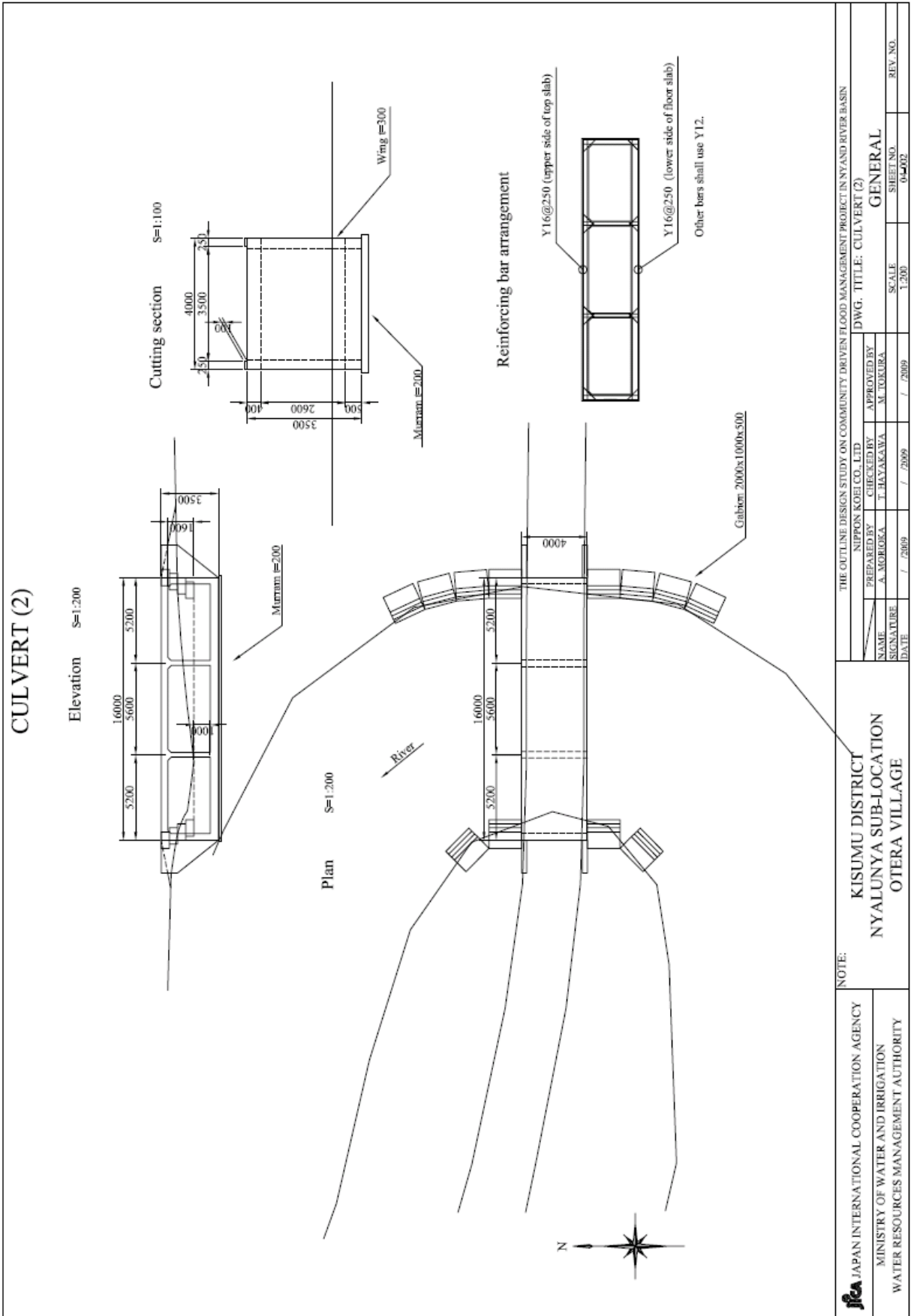
補図 3.11 プワンダ村 : カルバート (4)

CULVERT (1)



<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>NOTE:</p>		<p>KISUMU DISTRICT NYALUNYA SUB-LOCATION OTERA VILLAGE</p>		<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN DWG. TITLE: CULVERT (1)</p>	
NAME	A. MORIOKA	CHECKED BY	T. HAYAKAWA	APPROVED BY	M. TOKURA	SCALE	1:200
SIGNATURE		DATE	/ / 2009			SHEET NO.	04/01
			/ / 2009			REV. NO.	

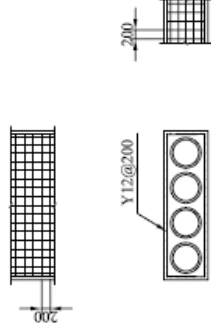
補図 3.13 オテラ村 : カルバート (1)



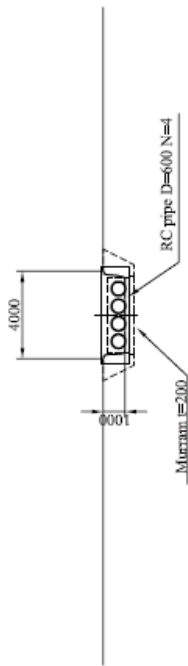
補図 3.14 オテラ村 : カルバート (2)

CULVERT (4)

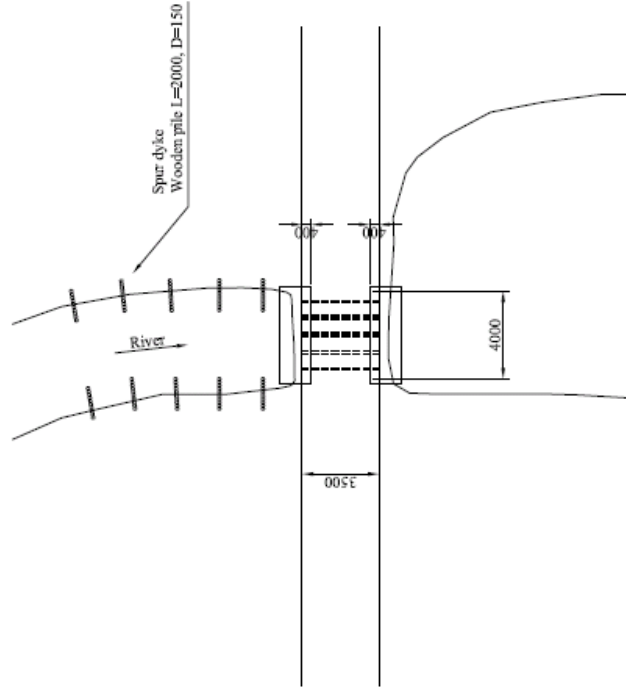
Bar Arrangement of Bed
(sample)



Elevation S=1:200



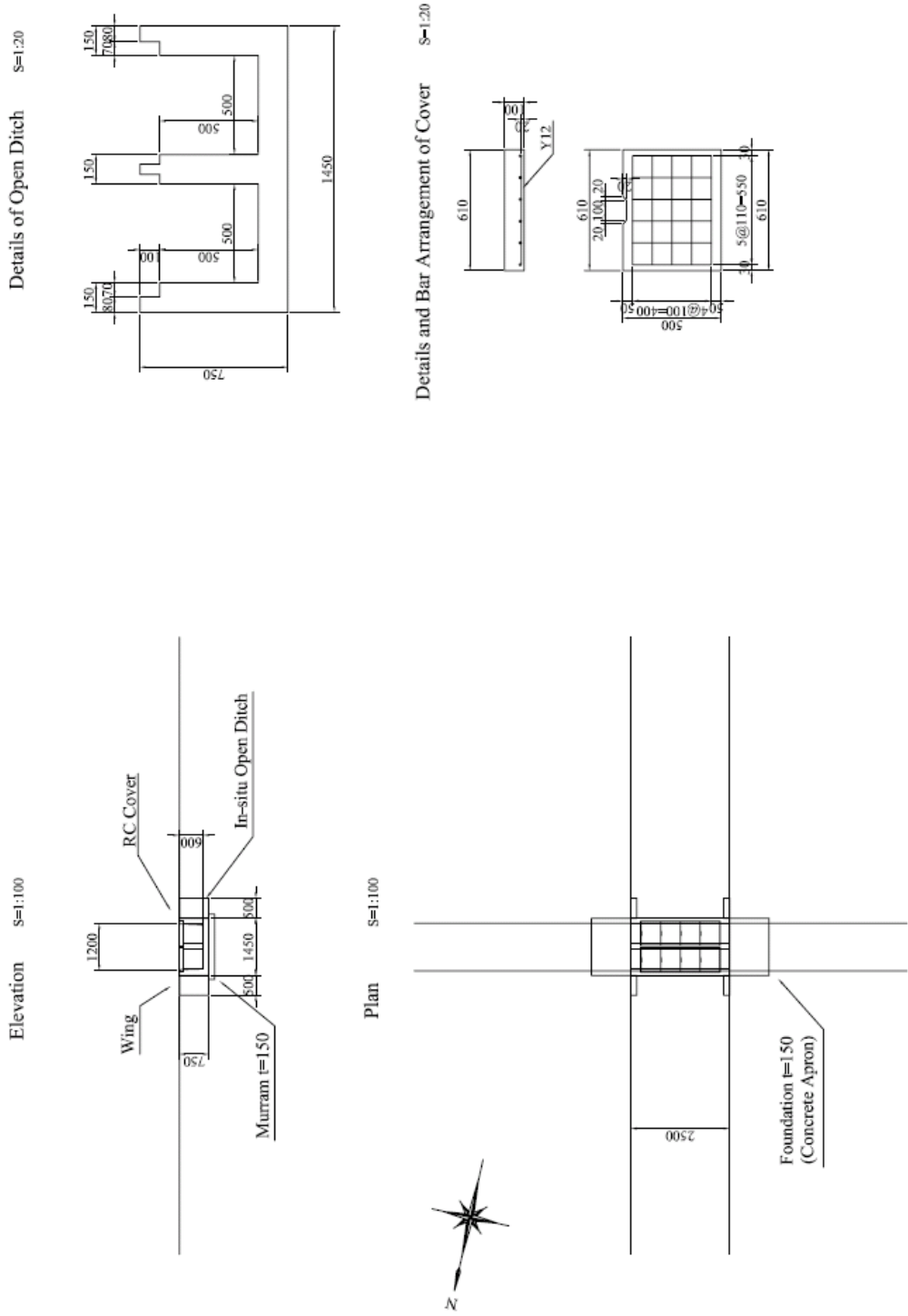
Plan S=1:200



<p>NOTE:</p> <p>KISUMU DISTRICT NYALUNYA SUB-LOCATION OTERA VILLAGE</p>		<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN</p>	
<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>NIPPON KOEI CO. LTD. PREPARED BY: A. MORIOKA / 2009 / 2009 / 2009 CHECKED BY: T. HAYAKAWA / 2009 / 2009 / 2009 APPROVED BY: M. TOKURA / 2009 / 2009 / 2009</p>	
<p>DWG. TITLE: CULVERT (4) GENERAL</p>		<p>SCALE: 1:200</p>	<p>SHEET NO. 04-004 REV. NO.</p>

補図 3.16 オテラ村：カルバート（4）

CULVERT

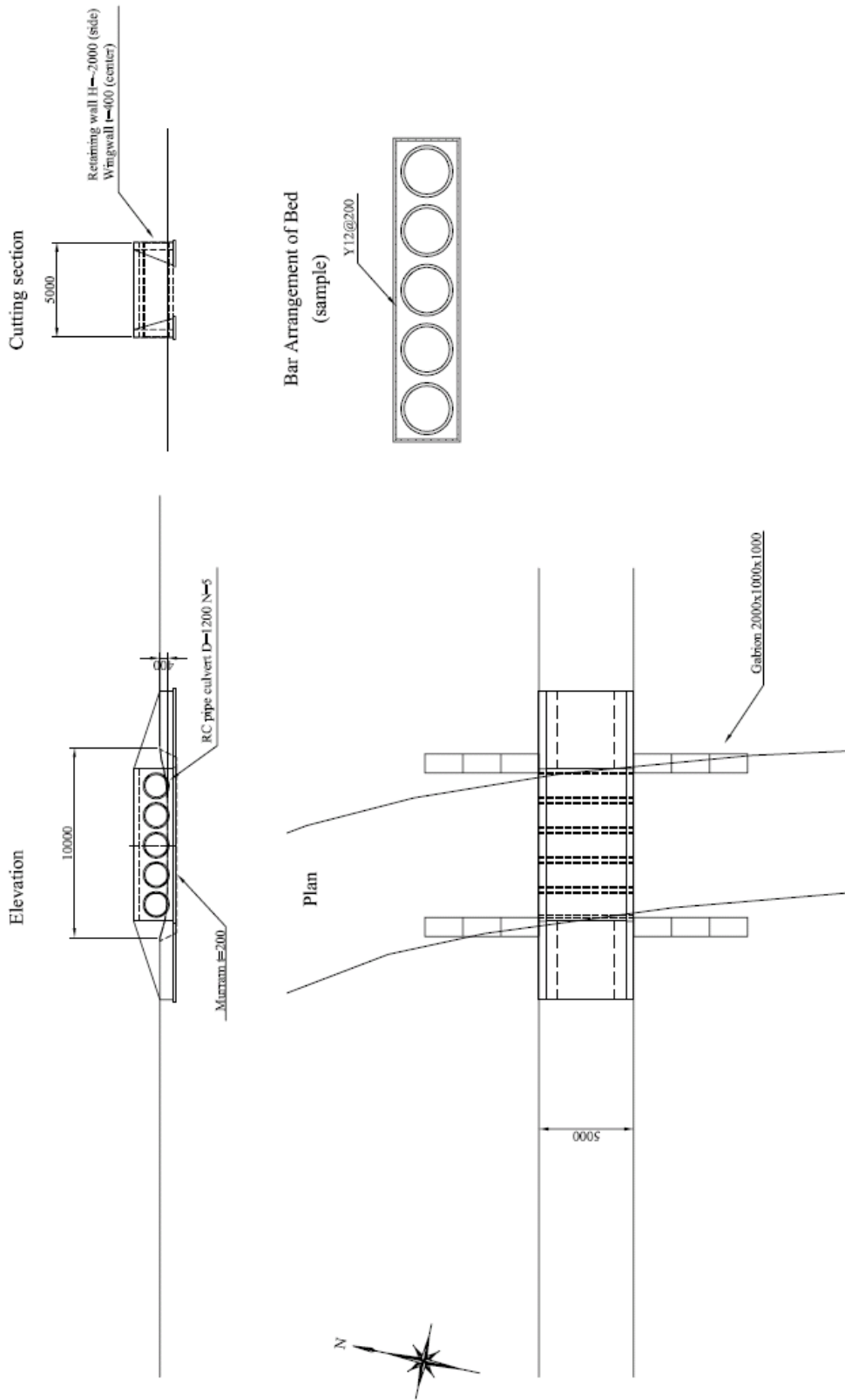


JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY		NOTE: KISUMU DISTRICT NYALUNYA SUB-LOCATION KAMUGA VILLAGE		THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN DWG. TITLE: CULVERT	
NAME	A. MORIOKA	CHECKED BY	T. HAYAKAWA	APPROVED BY	M. TOKURA
SIGNATURE		SIGNATURE		SIGNATURE	
DATE	/ / 2009	DATE	/ / 2009	DATE	/ / 2009
		SCALE	1:100	SHEET NO.	05/02
				REV. NO.	

補図 3.18 カムガ村：カルバート

CULVERT (2)

S=1:200



ifca JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

NOTE:
 KISUMU DISTRICT
 NYALUNYA SUB-LOCATION
 OYOLA VILLAGE

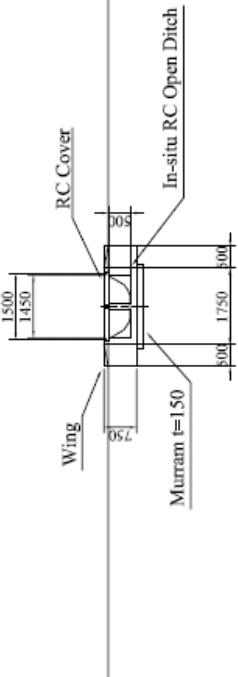
THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN
 NIPPON KOGI CO., LTD.
 PREPARED BY A. MORIOKA / CHECKED BY T. HAYAKAWA / APPROVED BY M. TOKURA
 NAME / SIGNATURE / DATE / / /
 DWG. TITLE: CULVERT (2)
 GENERAL
 SCALE 1:200
 SHEET NO. 05/002
 REV. NO.

補図 3.20 オヨラ村：カルバート (2)

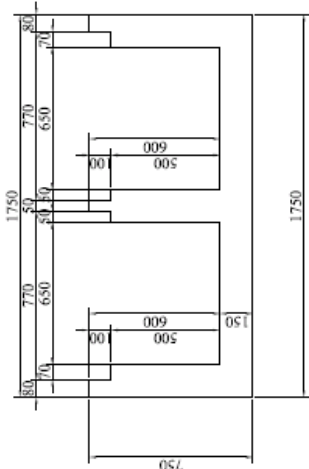
CULVERT (3)

S=1:100

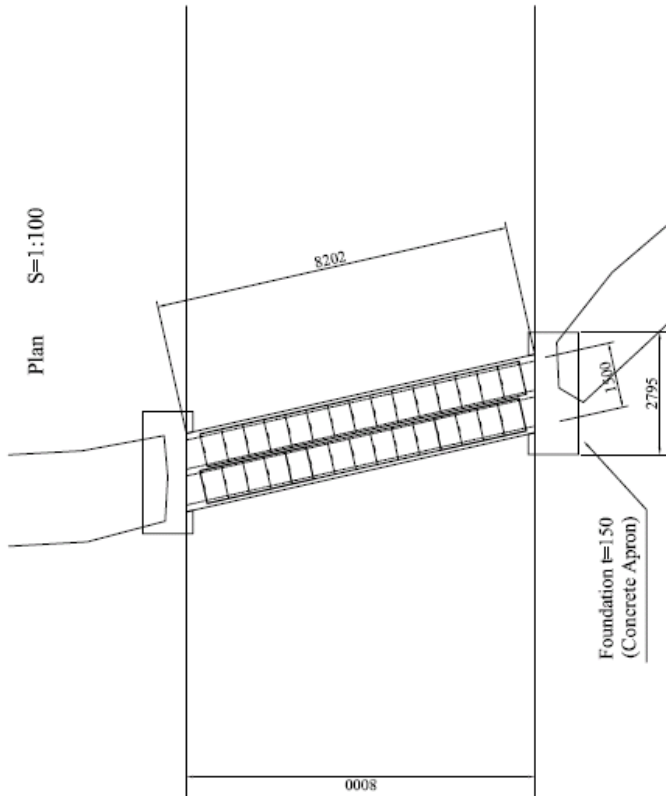
Elevation S=1:100



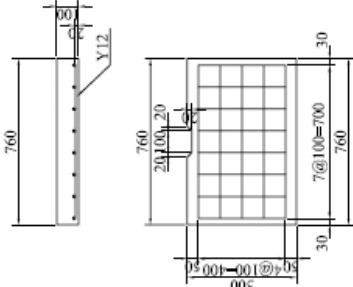
Details of Open Ditch S=1:20



Plan S=1:100



Details and Bar Arrangement of Cover S=1:20



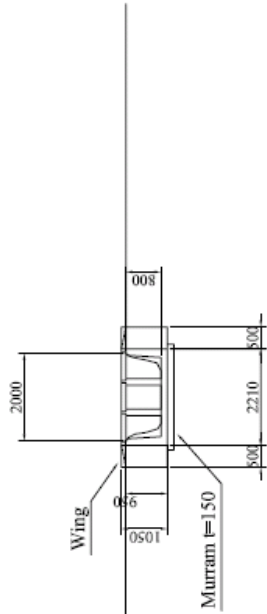
JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY		NOTE: KISUMU DISTRICT NYALUNYA SUB-LOCATION OYOLA VILLAGE		THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN NIPPON KOKI CO. LTD. DWG. TITLE: CULVERT (3)	
NAME	A. MORIOKA	CHECKED BY	T. HAYAKAWA	APPROVED BY	M. TOGURA
SIGNATURE		DATE	/ 2009		/ 2009
SCALE	1:100			SHEET NO.	06403
REV. NO.					

補図 3.21 オヨラ村 : カルバート (3)

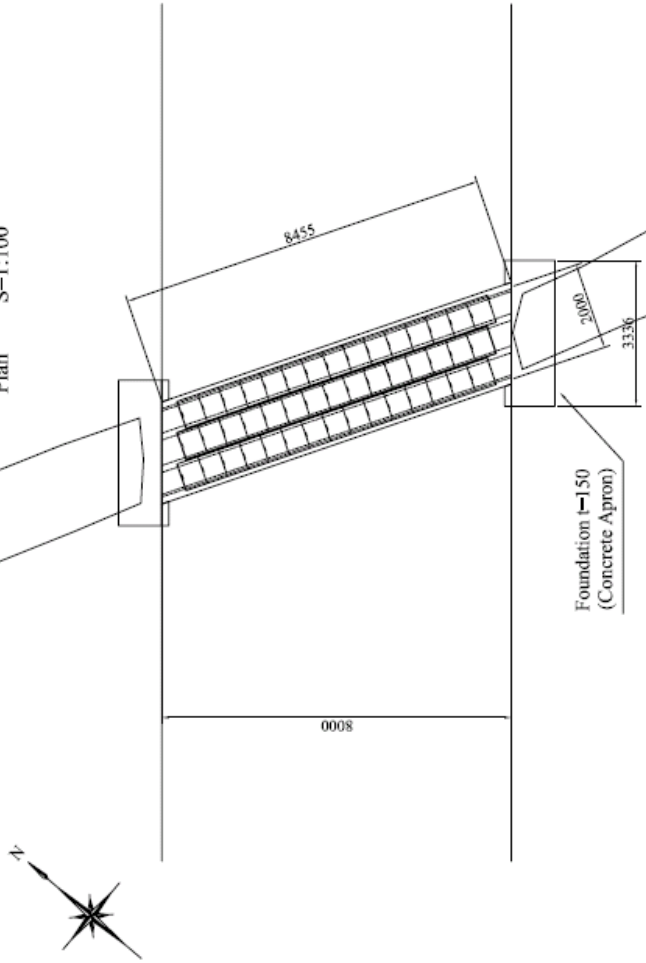
CULVERT (4)

S=1:100

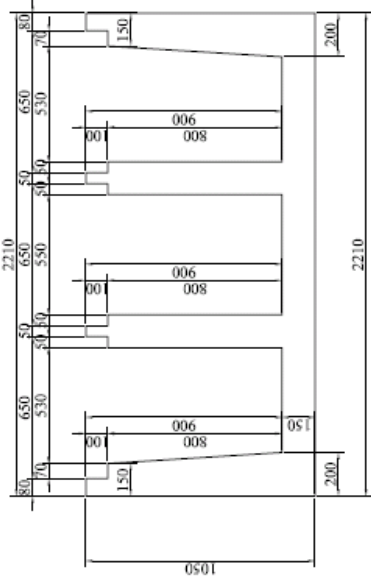
Elevation S=1:100



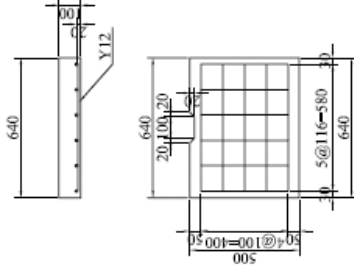
Plan S=1:100



Details of Open Ditch S=1:20



Details and Bar Arrangement of Cover S=1:20



<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN</p>		<p>NIPPON KOBEL CO. LTD.</p>		<p>DWG. TITLE: CULVERT (4)</p>	
<p>PREPARED BY A. MORIOKA</p>	<p>CHECKED BY T. HAYAKAWA</p>	<p>APPROVED BY M. TOKURA</p>	<p>GENERAL</p>		
<p>SIGNATURE</p>	<p>DATE</p>	<p>SCALE</p>	<p>SHEET NO.</p>	<p>REV. NO.</p>	<p>REV. NO.</p>
<p>1 / 2009</p>	<p>1 / 2009</p>	<p>1:100</p>	<p>06-004</p>	<p>1</p>	<p>06-004</p>

NOTE:

KISUMU DISTRICT
NYALUNYA SUB-LOCATION
OYOLA VILLAGE

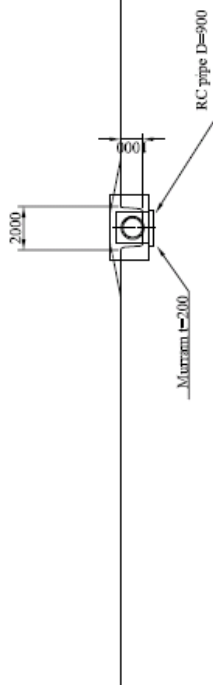
JICA JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF WATER AND IRRIGATION
WATER RESOURCES MANAGEMENT AUTHORITY

補図 3.22 オヨラ村 : カルバート (4)

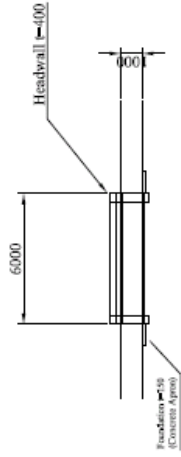
CULVERT (5)

S=1:200

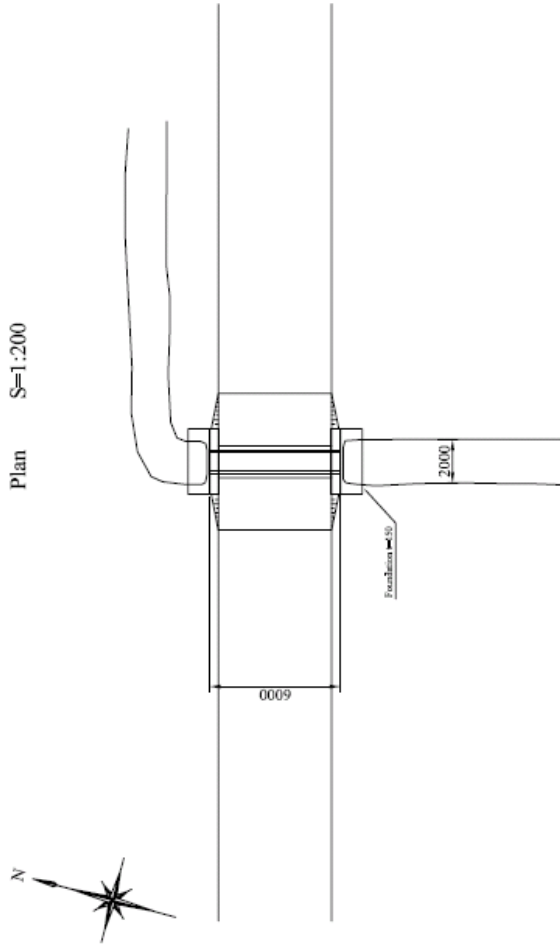
Elevation S=1:200



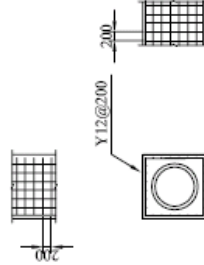
Cutting section S=1:200



Plan S=1:200



Bar Arrangement of Bed (sample) S=1:100



NOTE:

ifca JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

KISUMU DISTRICT
 NYALUNYA SUB-LOCATION
 OYOLA VILLAGE

THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN

NIPPON KOEI CO., LTD.
 DWG. TITLE: CULVERT (5)

PREPARED BY A. MORIOKA	CHECKED BY T. HAYAKAWA	APPROVED BY M. TOKURA
SIGNATURE	SCALE 1:200	SHEET NO. 05/005
DATE / / 2009		REV. NO.

GENERAL

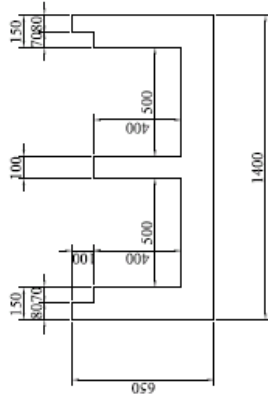
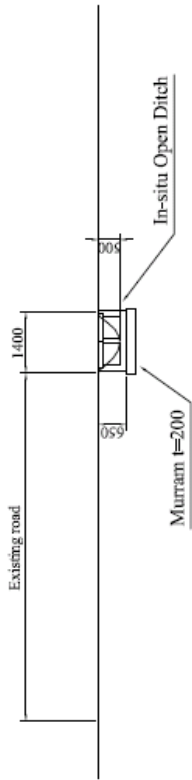
補図 3.23 オヨラ村 : カルバート (5)

CULVERT (6)

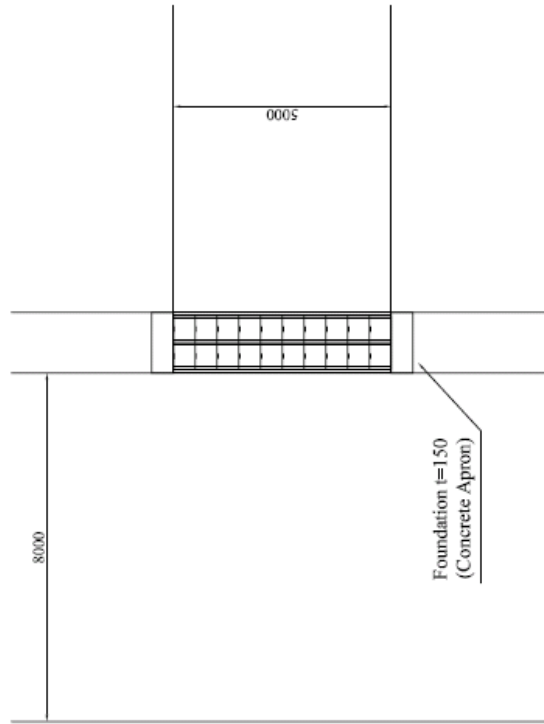
S=1:100

Elevation S=1:100

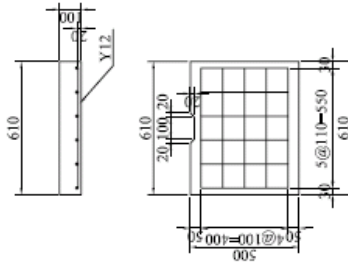
Details of Open Ditch S=1:20



Plan S=1:100



Details and Bar Arrangement of Cover S=1:20



NOTE: JICA JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF WATER AND IRRIGATION
WATER RESOURCES MANAGEMENT AUTHORITY

KISUMU DISTRICT
NYALUNYA SUB-LOCATION
OYOLA VILLAGE

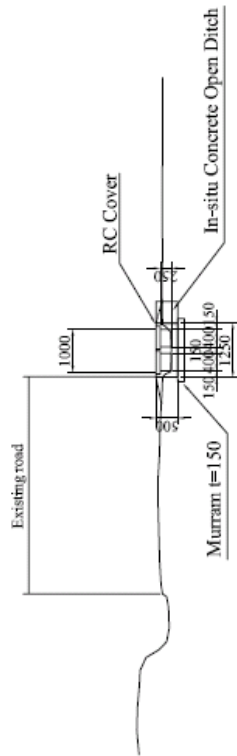
TIME OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN	
NIPPON KOEI CO., LTD	
DWG. TITLE: CULVERT (6)	
PREPARED BY	APPROVED BY
A. MURIOKA	M. TEKKURA
CHECKED BY	T. HAYAKAWA
SCALE	1:100
SIGNATURE	SHEET NO. 05/006
DATE	REV. NO.
/ 2009	/ 2009

補図 3.24 オヨラ村 : カルバート (6)

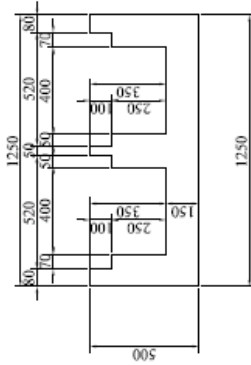
CULVERT (2)

S=1:100

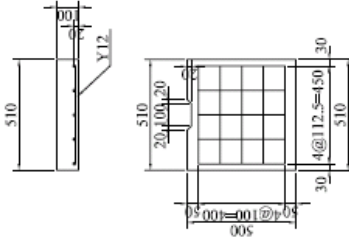
Elevation S=1:100



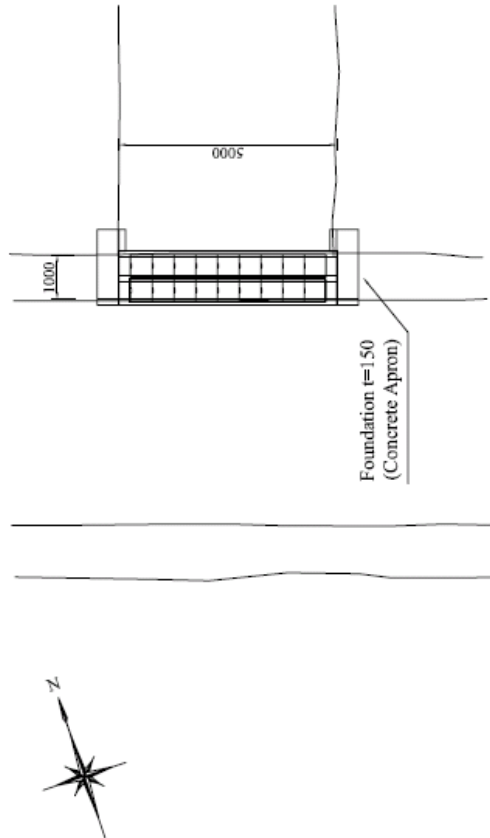
Details of Open Ditch S=1:20



Details and Bar Arrangement of Cover S=1:20



Plan S=1:100



NOTE:

ifa JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

KISUMU DISTRICT
 UPPER BWANDA SUB-LOCATION
 KANYANGO VILLAGE

THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN

NIPPON KOEI CO., LTD
 DWG. TITLE: CULVERT (2)

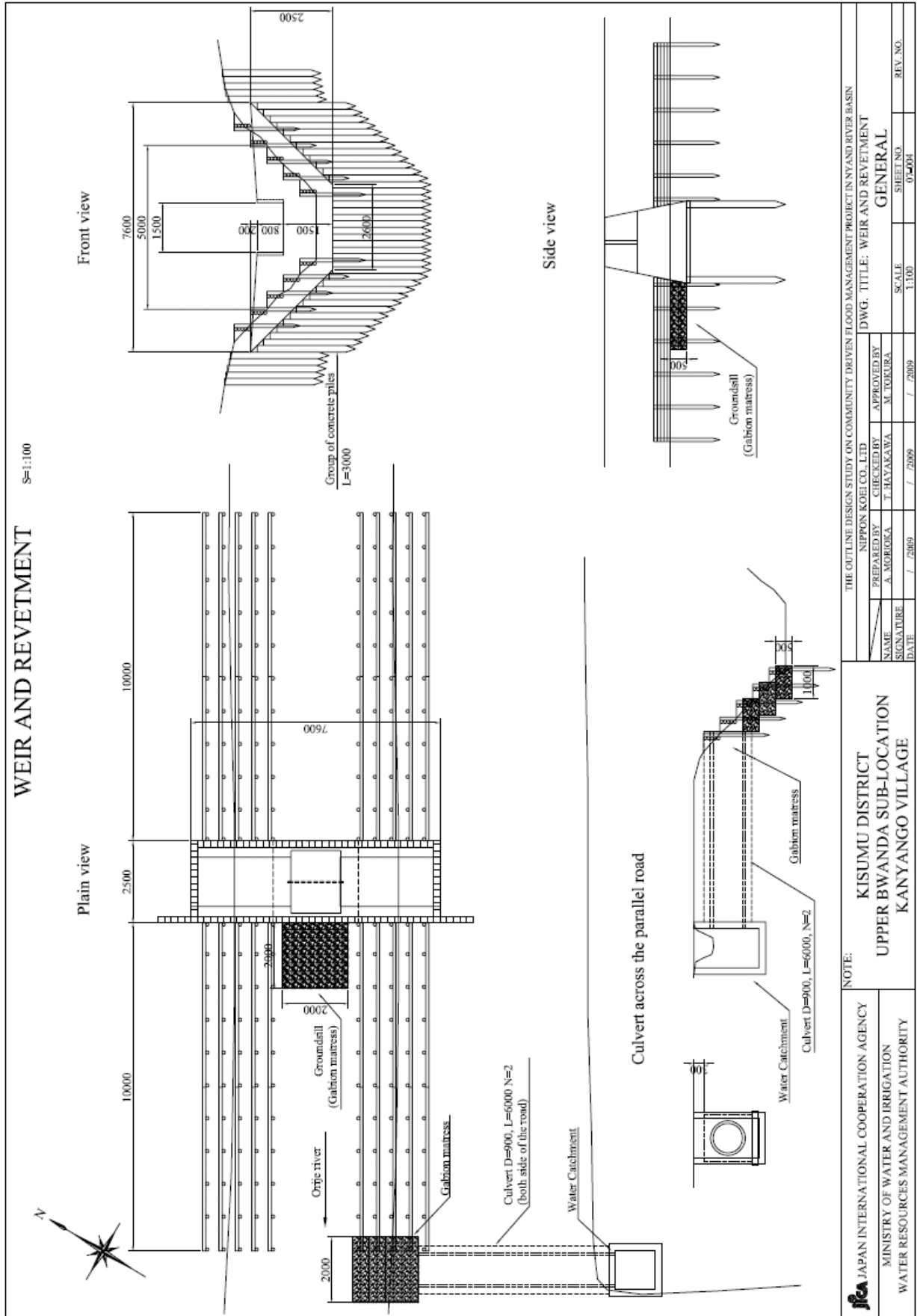
GENERAL

PREPARED BY A. MORIOKA	CHECKED BY T. HAYAKAWA	APPROVED BY M. TOKURA	SCALE 1:100	SHEET NO. 01/02	REV. NO.
SIGNATURE DATE	/ / 2009	/ / 2009			

補図 3.26 カニヤンゴ村：カルバート (2)

WEIR AND REVETMENT

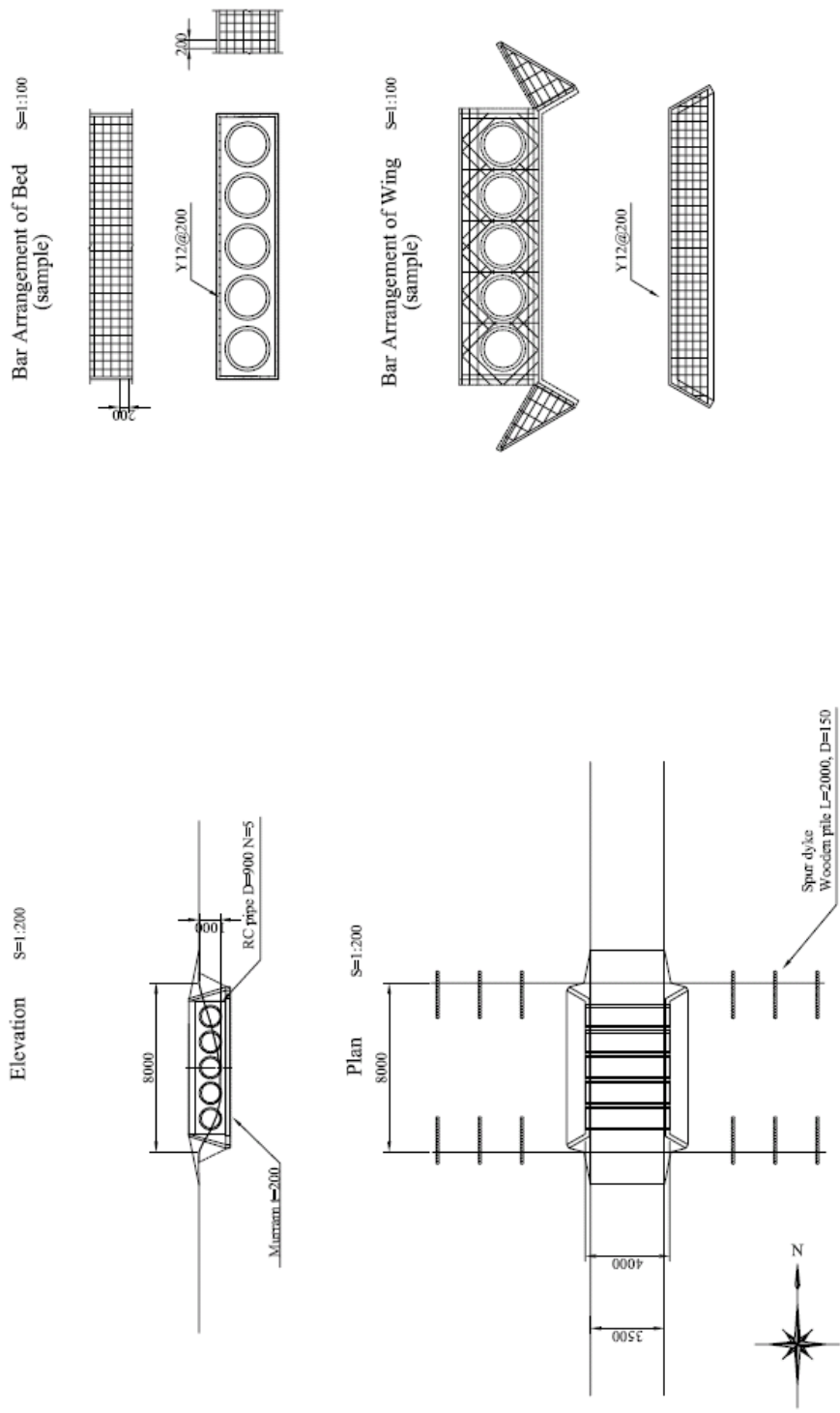
S=1:100



THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN NIPPON KOEI CO. LTD.		DWG. TITLE: WEIR AND REVETMENT GENERAL	
PREPARED BY A. MOROGA	CHECKED BY T. HATAKAWA	APPROVED BY M. TOKURA	SHEET NO. 07-004
NAME SIGNATURE	DATE / / 2009	SCALE 1:100	REV. NO. / / 2009
KISUMU DISTRICT UPPER BWANDA SUB-LOCATION KANYANGO VILLAGE		NOTE: JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY	

補図 3.28 カニャンゴ村：堰

CULVERT



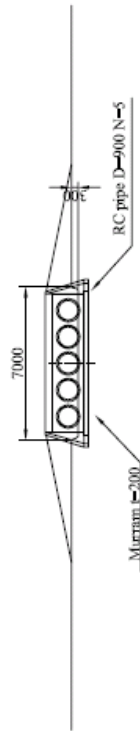
THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN NIPPON KOBEL CO. LTD.		DWG. TITLE: CULVERT	
PREPARED BY A. MOBIOKA	CHECKED BY T. HAYAKAWA	APPROVED BY M. TOKURA	GENERAL
SIGNATURE DATE	/ / 2009	/ / 2009	SHEET NO. 04-002
KISUMU DISTRICT CENTRAL BWANDA SUB-LOCATION KOWITI VILLAGE		SCALE 1:200	REV. NO.
JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY			

補図 3.29 コウティティ村：カルバート

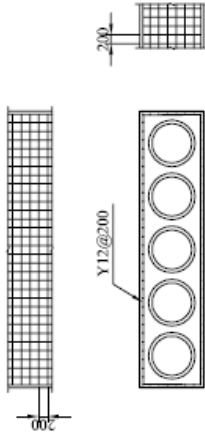
CULVERT (1)

S=1:200

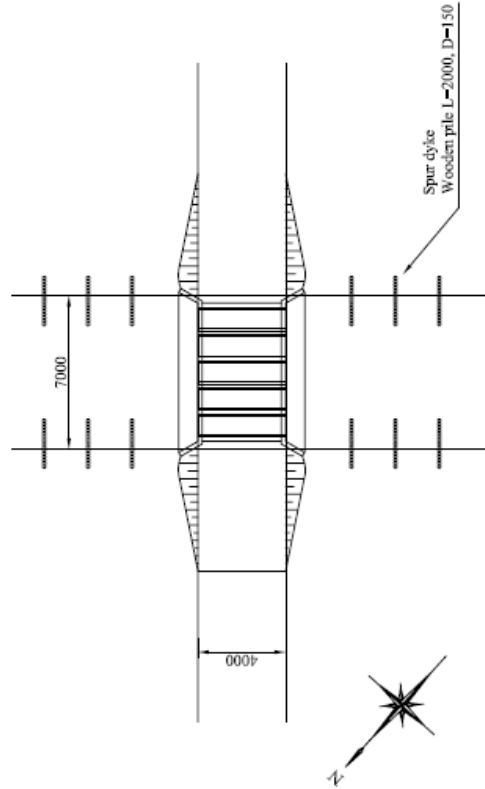
Elevation



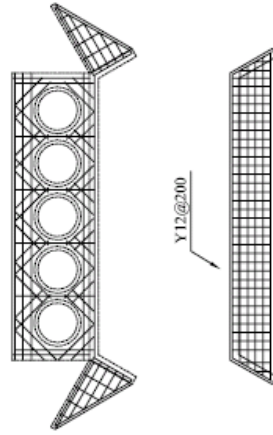
Bar Arrangement of Bed
(sample)



Plan



Bar Arrangement of Wing
(sample)



ifca JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF WATER AND IRRIGATION
WATER RESOURCES MANAGEMENT AUTHORITY

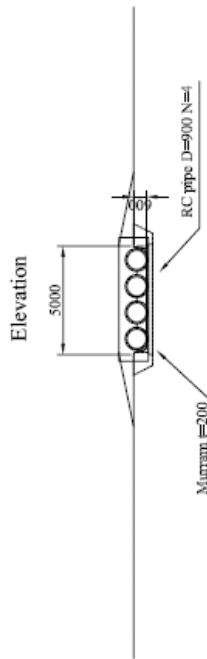
NOTE:
**KISUMU DISTRICT
CENTRAL BWANDA SUB-LOCATION
KAMGET UGWE VILLAGE**

THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN		DWG. TITLE: CULVERT (1)	
PREPARED BY	APPROVED BY	SCALE	SHEET NO.
A. MORIYAMA	T. HAYAKAWA	1:200	1/0402
SIGNATURE	DATE	REV. NO.	
	/ 2009		

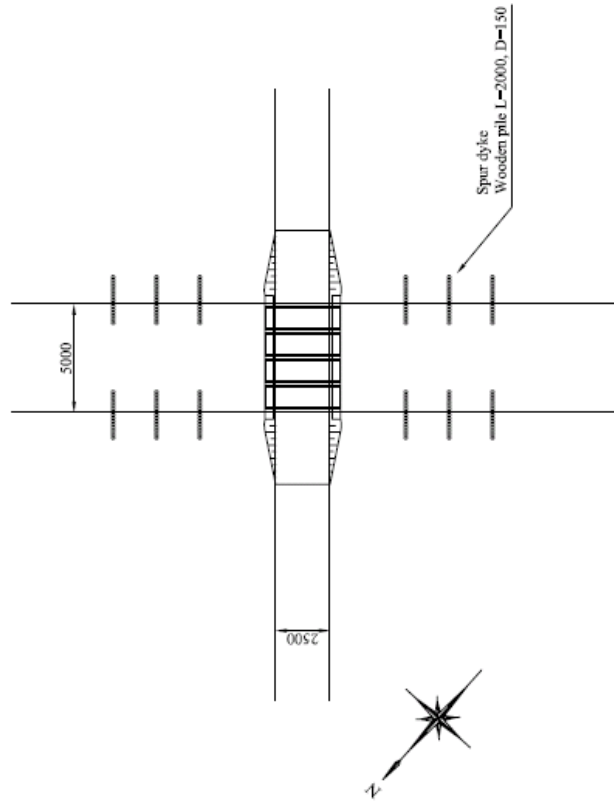
補図 3.30 カムゲット・ウグウェ村：カルバート (1)

CULVERT (2)

S=1:200



Plan



ifa JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

NOTE:
 KISUMU DISTRICT
 CENTRAL BWANDA SUB-LOCATION
 KAMGET UGWE VILLAGE

THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN

PREPARED BY		CHECKED BY		APPROVED BY	
NAME	A. MORIOKA	T. HAYAKAWA	M. TOKURA	GENERAL	
SIGNATURE				SCALE	1:200
DATE	/ / 2009	/ / 2009	/ / 2009	SHEET NO.	1/003
				REV. NO.	

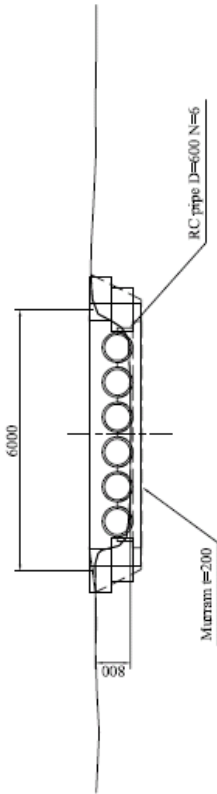
補図 3.31 カムゲット・ウグウェ村：カルバート (2)

CULVERT (1)

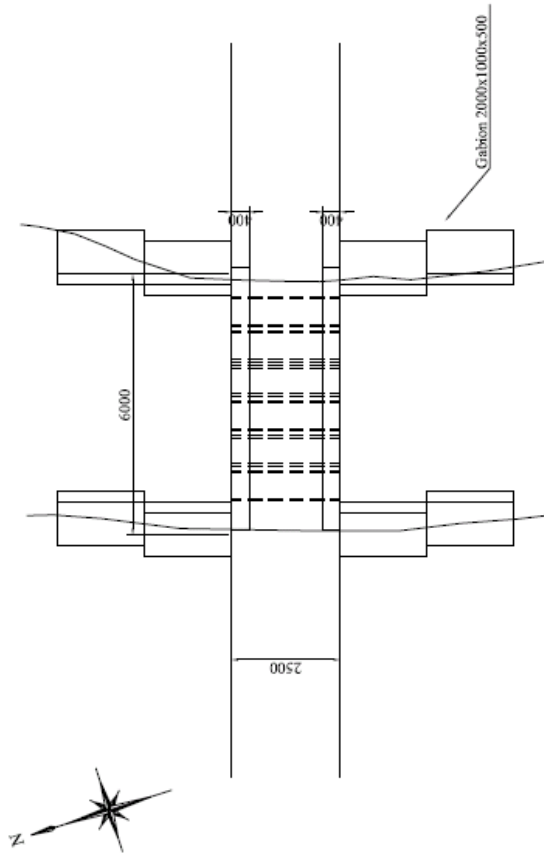
S=1:100

Elevation

Elevation



Plan



NOTE:

jica JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

KISUMU DISTRICT
 OGENYA SUB-LOCATION
 KANYIAOMO VILLAGE

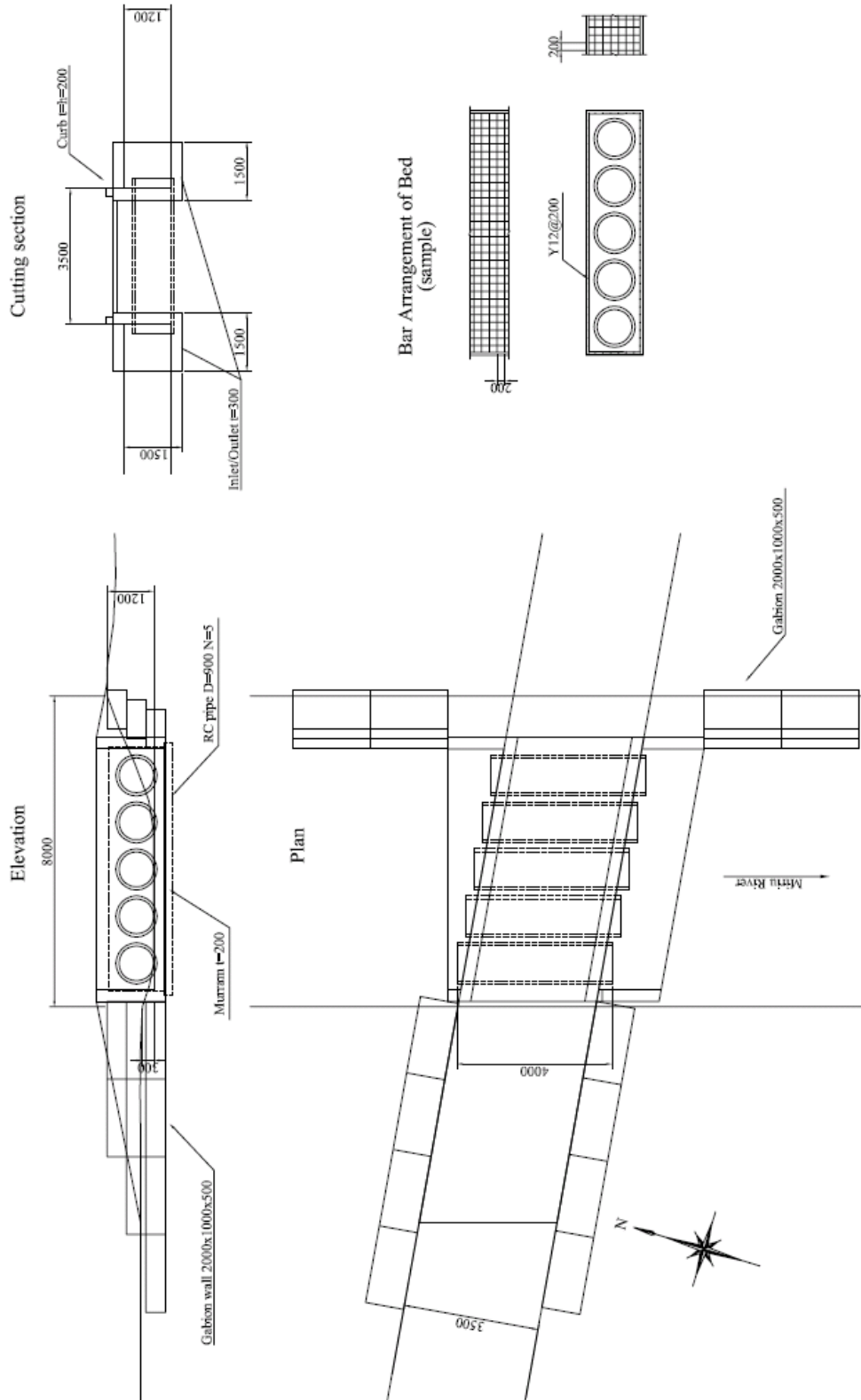
THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN

PREPARED BY		CHECKED BY		APPROVED BY	
A. MORIOKA		T. HAYAKAWA		M. TOKURA	
SIGNATURE		SIGNATURE		SIGNATURE	
DATE		DATE		DATE	
/ / 2009		/ / 2009		/ / 2009	
DWG. TITLE: CULVERT (1)		SCALE		REV. NO.	
		1:100		1-2001	

補図 3.33 カニアオモ村：カルバート (1)

CULVERT (2)

S=1:100



<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN</p>	
<p>NIPPON KOEI CO., LTD.</p>	
<p>DWG. TITLE: CULVERT (2)</p>	
<p>PREPARED BY A. AGRIGORA</p>	<p>CHECKED BY T. HAYAKAWA</p>
<p>APPROVED BY M. TOKURA</p>	<p>GENERAL</p>
<p>SIGNATURE</p>	<p>SCALE 1:100</p>
<p>DATE / / 2009</p>	<p>SHEET NO. 12/02</p>
<p>REV. NO.</p>	<p>1:100</p>

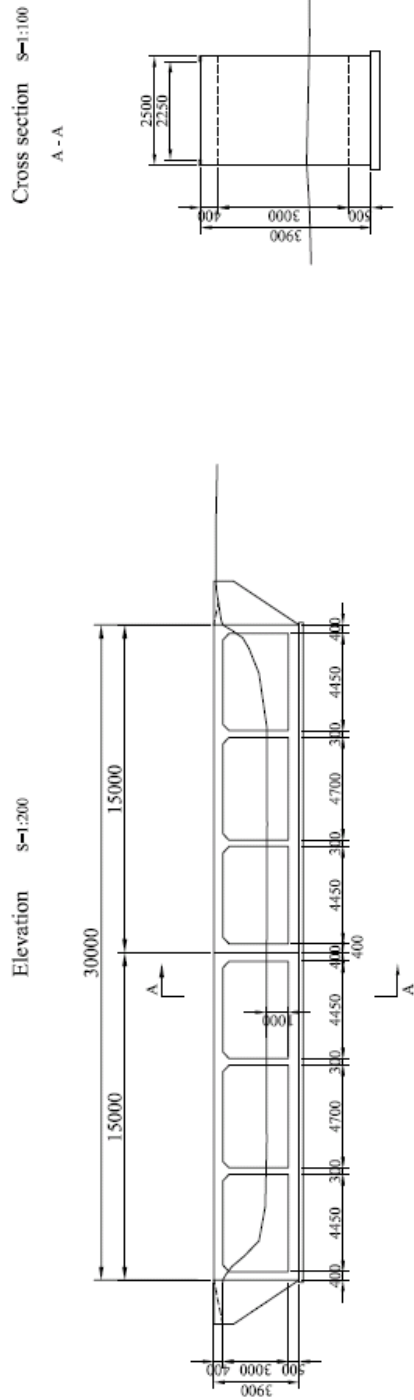
NOTE:

KISUMU DISTRICT
 OGENYA SUB-LOCATION
 KANYAOMO VILLAGE

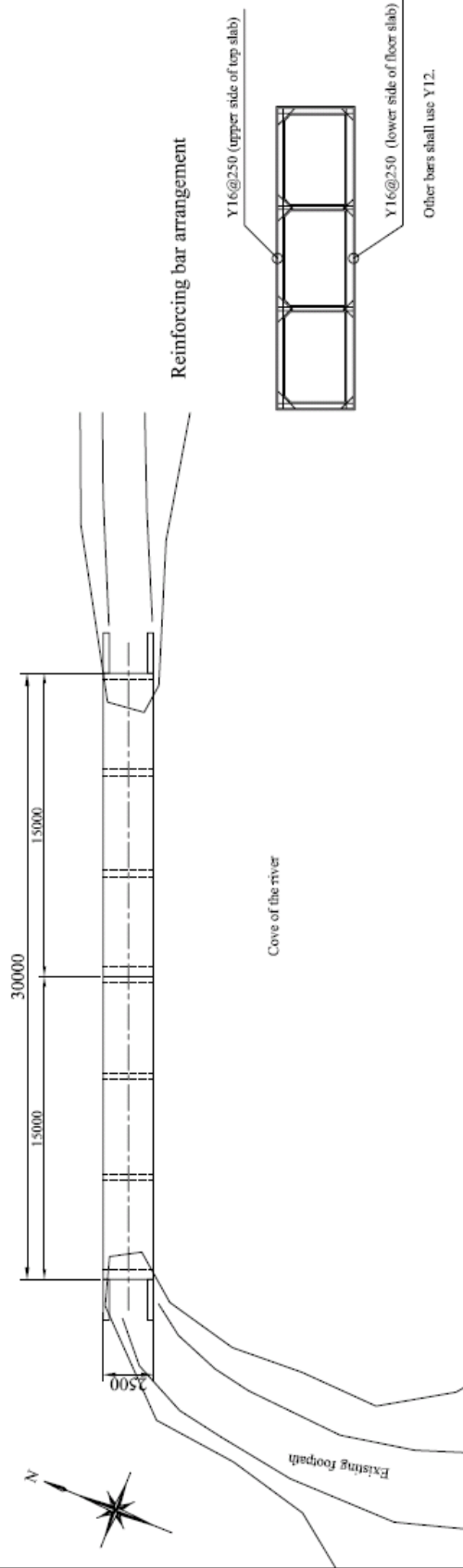
JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

補図 3.34 カニアオモ村：カルバート (2)

CULVERT



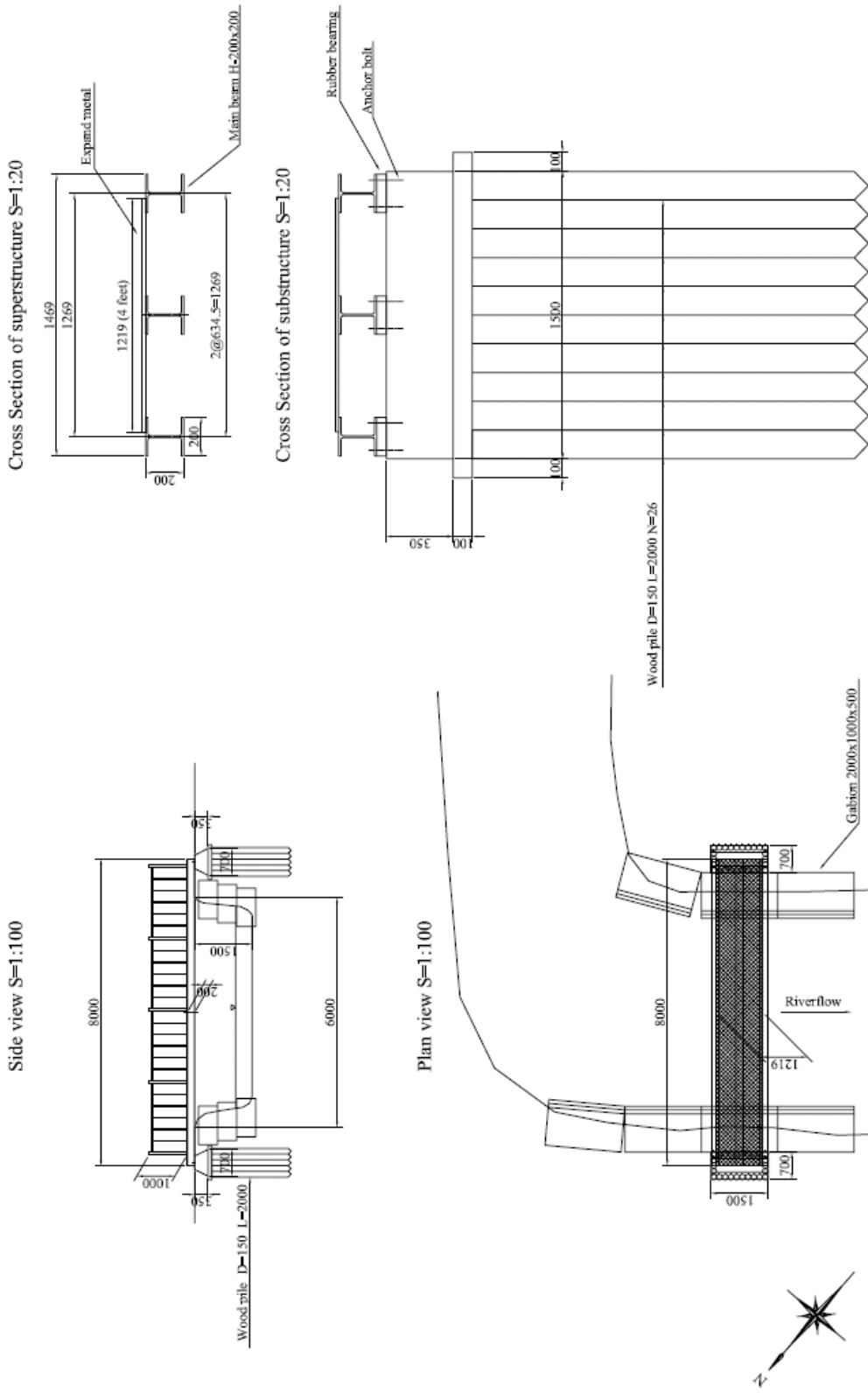
Plain S=1:200



<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>NOTE:</p>		<p>NAYNDO DISTRICT KORE SUB-LOCATION WASIESE VILLAGE</p>		<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN NIPPON KOEI CO., LTD DWG. TITLE: CULVERT</p>	
NAME	A. MORIOKA	CHECKED BY	T. HAYAKAWA	APPROVED BY	M. TORURA	SCALE	1:200
SIGNATURE		DATE	/ 2009		/ 2009	SHEET NO.	14/01
						REV. NO.	

補図 3.35 ワシエセ村：カルバート

FOOTBRIDGE

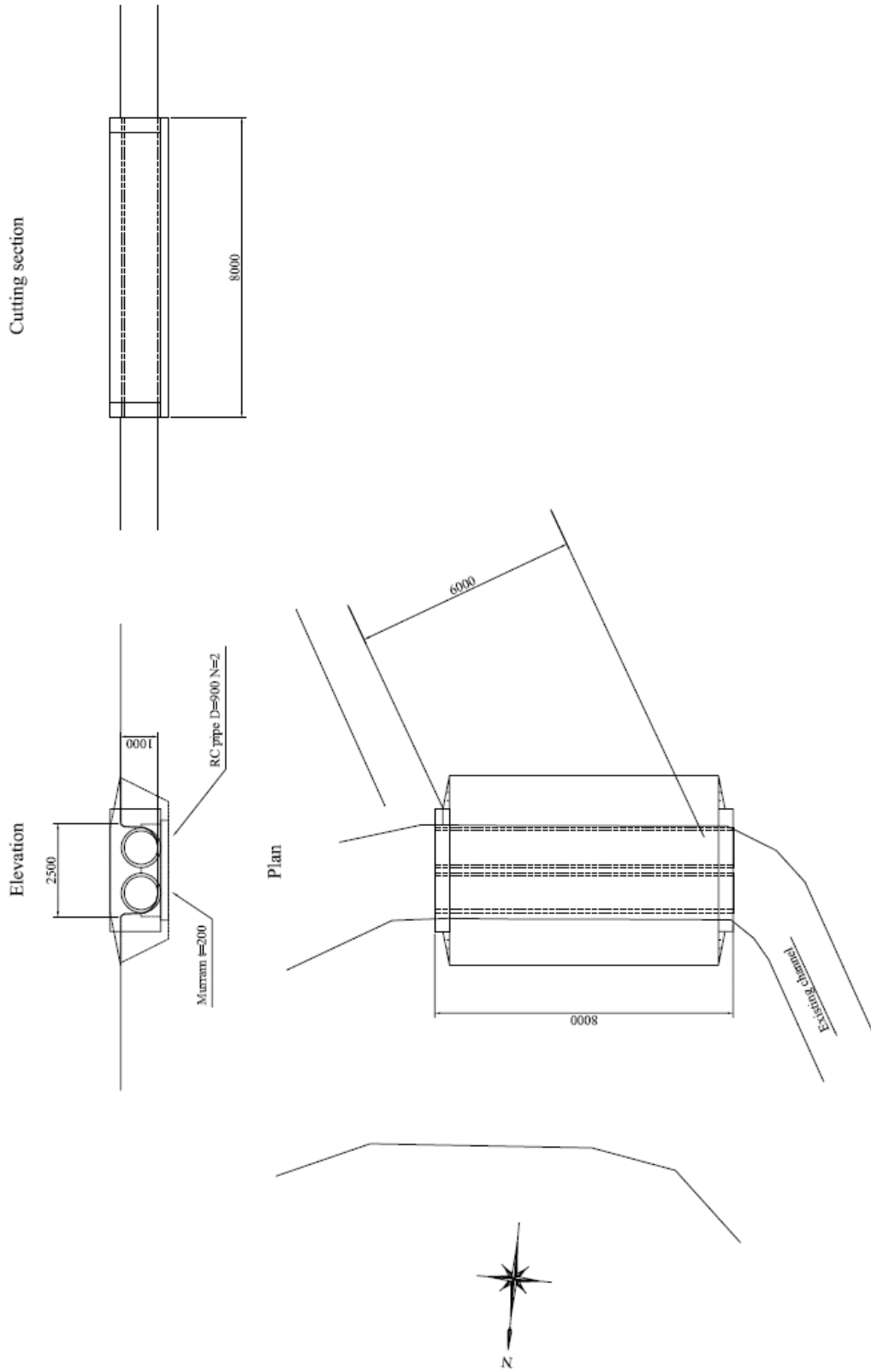


<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN</p> <p>NIPPON KOEI CO. LTD.</p>		<p>DWG. TITLE: FOOTBRIDGE</p>	
<p>PREPARED BY A. MURIGUSA</p>	<p>CHECKED BY T. HAYAKAWA</p>	<p>APPROVED BY M. TOKURA</p>	<p>GENERAL</p>
<p>SIGNATURE</p>	<p>DATE</p>	<p>SCALE 1:100</p>	<p>SHEET NO. 1/5001</p>
<p>NOTE:</p> <p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY</p> <p>MINISTRY OF WATER AND IRRIGATION</p> <p>WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>NAYNDO DISTRICT</p> <p>AHERO IRRIGATION SCHEME SUB-LOCATION</p> <p>KAMAGAGA VILLAGE</p>	

補図 3.36 カマガガ村 : 人道橋

CULVERT (1)

S=1:100



NOTE: THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN

NIPPON KOBEL CO. LTD		DWG. TITLE: CULVERT (1)	
PREPARED BY	CHECKED BY	APPROVED BY	GENERAL
A. MORIOKA	T. HAYAKAWA	M. TOKURA	
SIGNATURE	DATE	SCALE	SHEET NO.
	/ 2009 / 2009	1:100	1 of 01
			REV. NO.

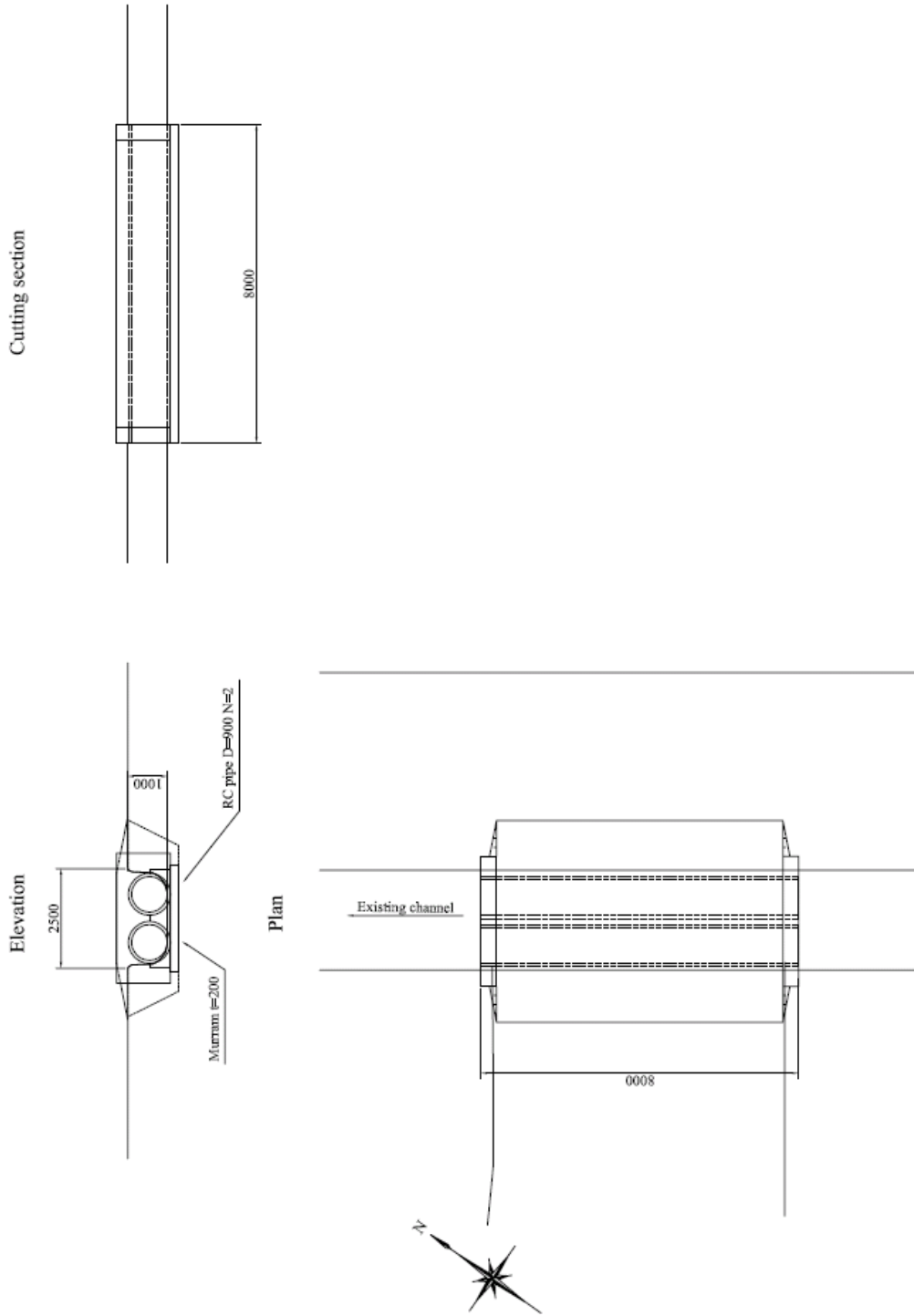
NAAYDO DISTRICT
 AHERO IRRIGATION SCHEME SUB-LOCATION
 WANGAYA MOMBASA VILLAGE

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

補図 3.37 ワンガヤ・モンバサ村：カルバート (1)

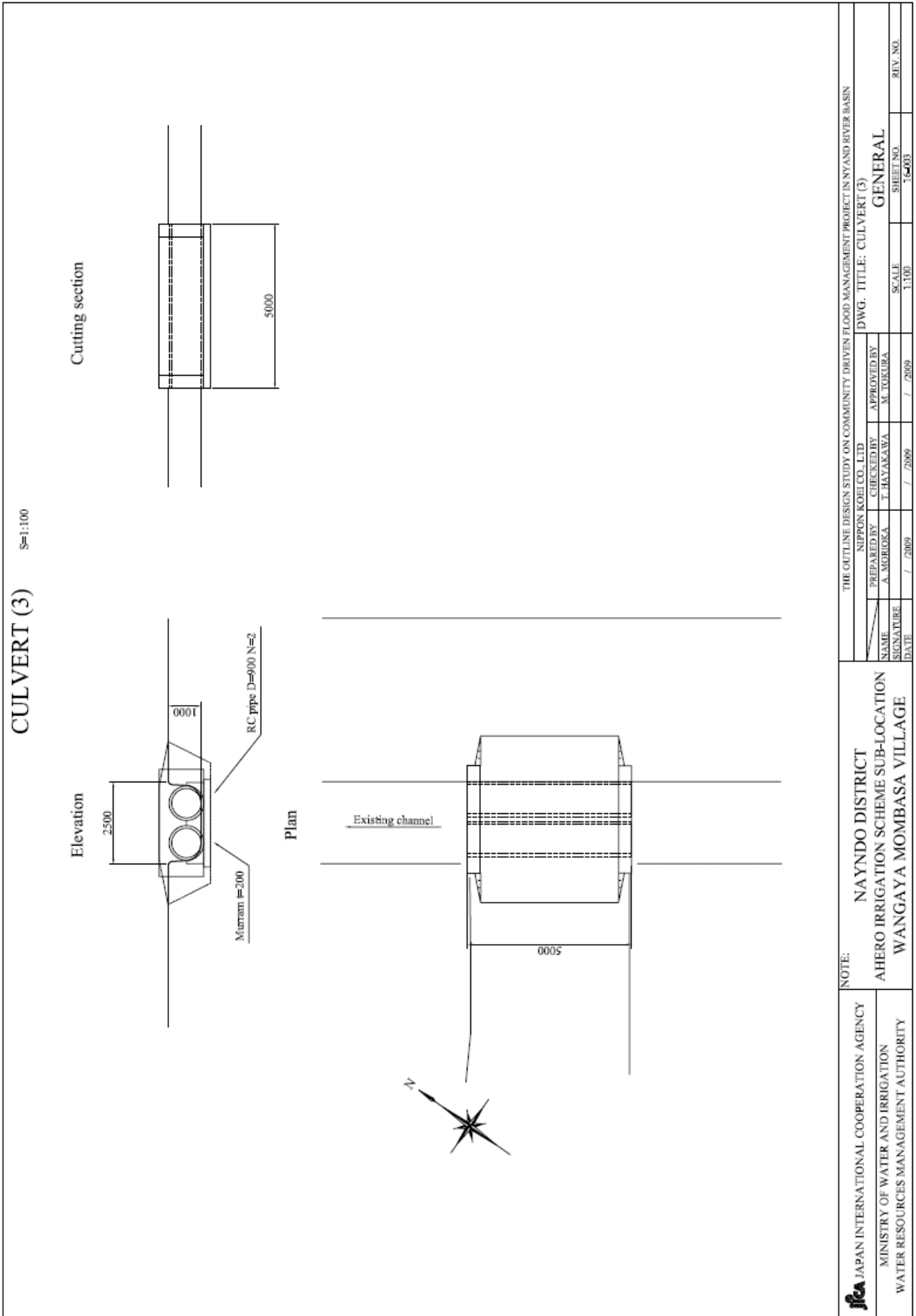
CULVERT (2)

S=1:100

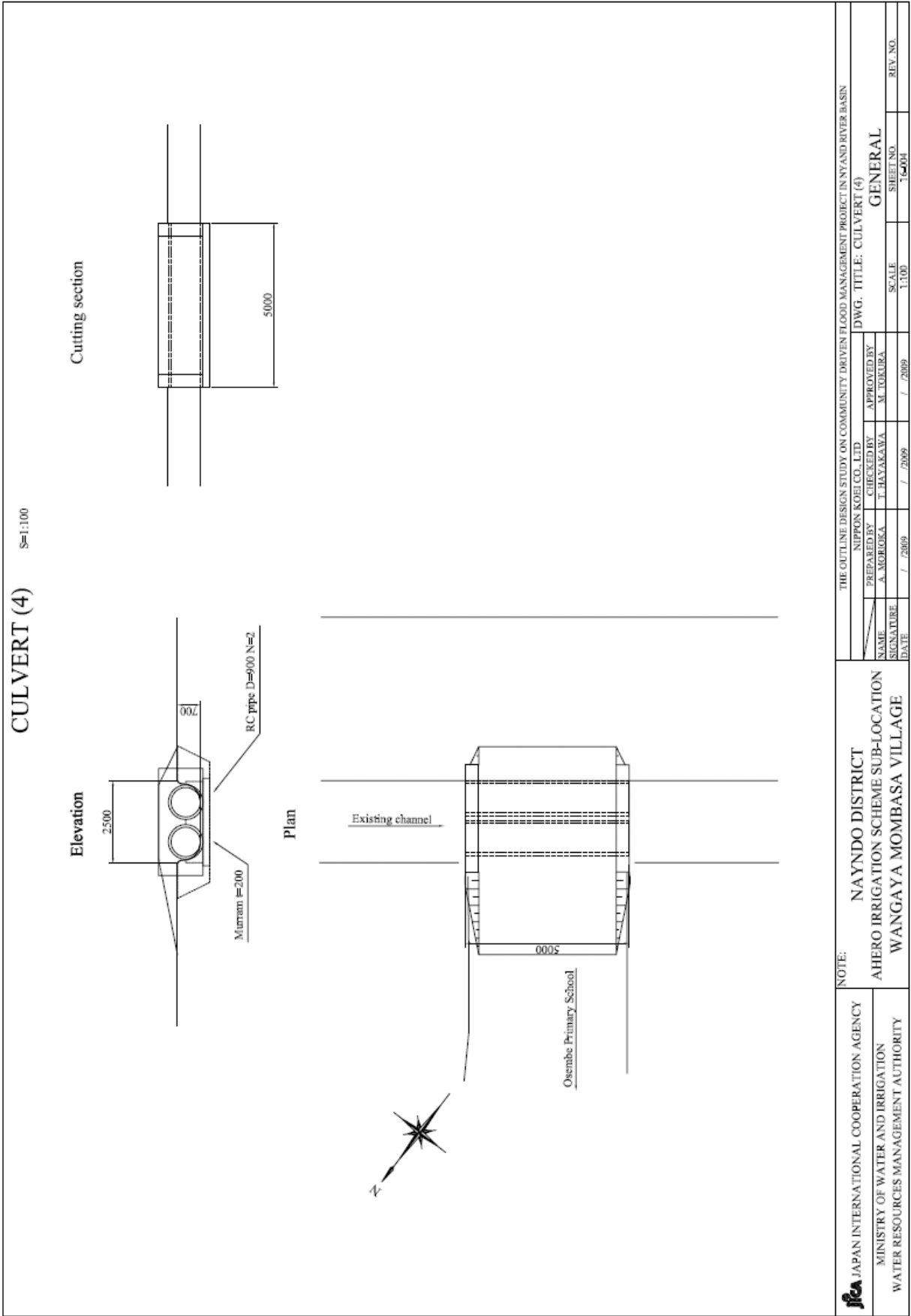


JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY	NOTE: NAYNDO DISTRICT AHERO IRRIGATION SCHEME SUB-LOCATION WANGAYA MOMBASA VILLAGE		THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN NIPPON KOGI CO. LTD.	
	PREPARED BY A. MURUGA	CHECKED BY T. HAYAKAWA	APPROVED BY M. TOKUBA	DWG. TITLE: CULVERT (2)
SIGNATURE DATE	/ / 2009	/ / 2009	SCALE 1:100	REV. NO.

補図 3.38 ワンガヤ・モンバサ村：カルバート (2)



補図 3.39 ワンガヤ・モンバサ村：カルバート (3)

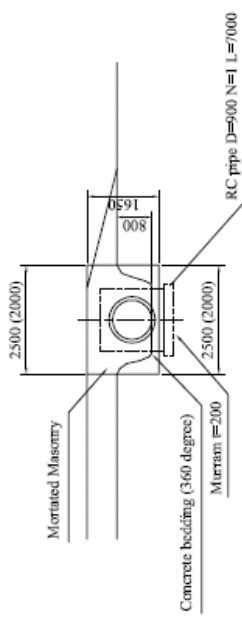


補図 3.40 ワンガヤ・モンバサ村：カルバート (4)

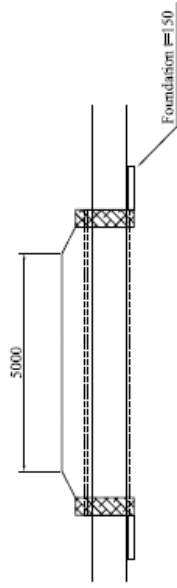
CULVERT

S=1:100

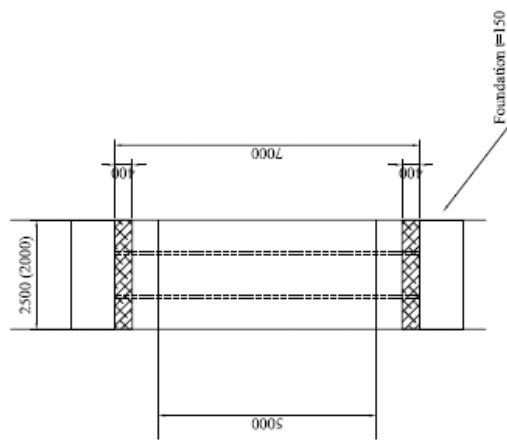
Elevation



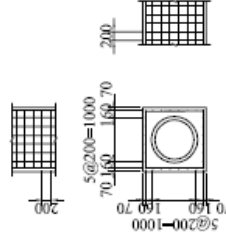
Cutting section



Plan



Bar Arrangement of Bed
(sample)



NOTE:

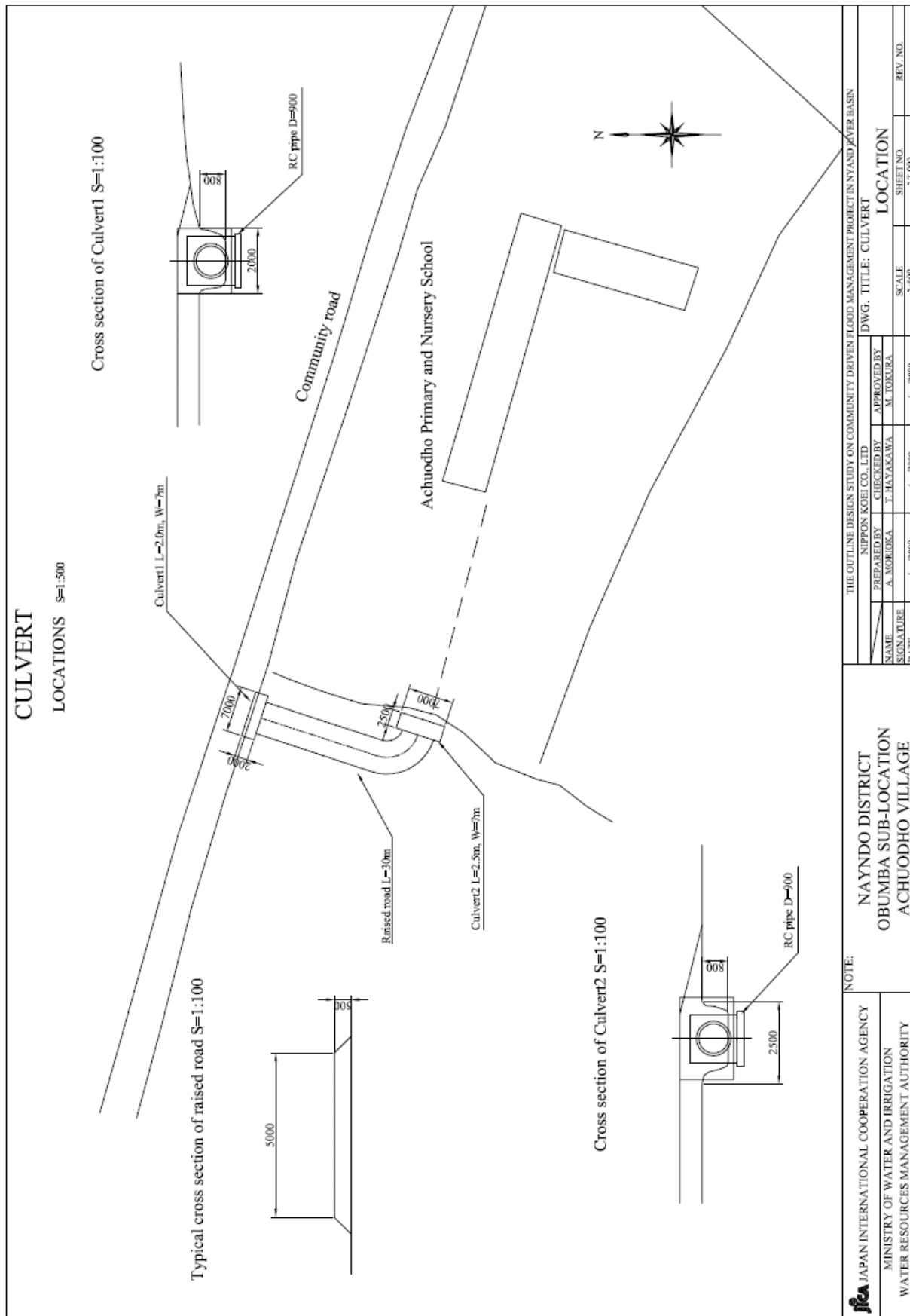
JICA JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF WATER AND IRRIGATION
WATER RESOURCES MANAGEMENT AUTHORITY

NAYNDO DISTRICT
OBUMBA SUB-LOCATION
ACHUODHO VILLAGE

THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN

NIPPON KOGI CO., LTD.
PREPARED BY A. MORIYAMA / 2009 / 2009 / 2009 / 2009
CHECKED BY T. HAYAKAWA / 2009 / 2009 / 2009 / 2009
APPROVED BY M. USUKIWA / 2009 / 2009 / 2009 / 2009
DWG. TITLE: CULVERT
GENERAL
SHEET NO. 1-002
SCALE 1:100
REV. NO.

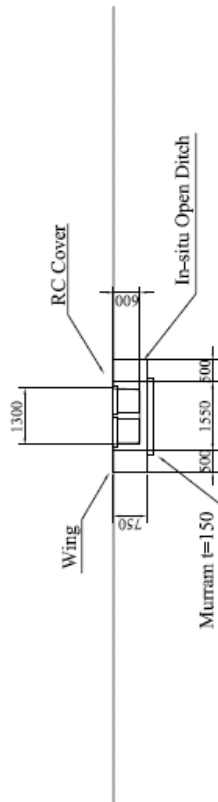
補図 3.41 アチュオドホ村：カルバート（1）



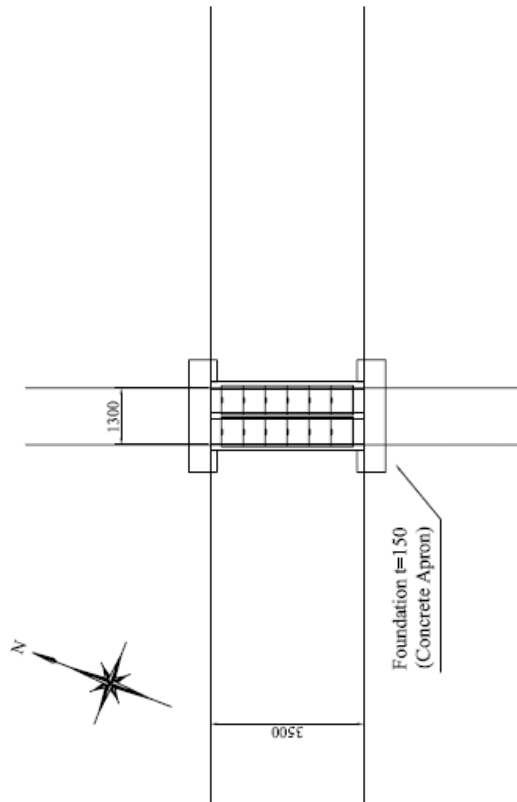
補図 3.42 アチュオドホ村：カルバート（2）

CULVERT

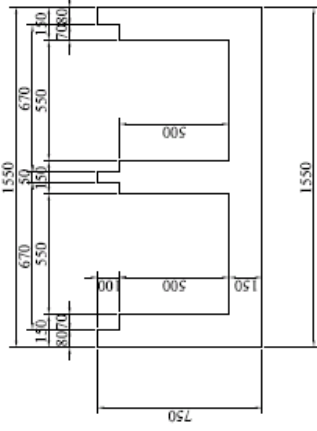
Elevation S=1:100



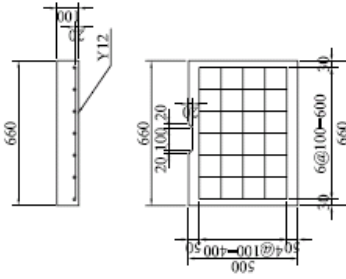
Plan S=1:100



Details of Open Ditch S=1:20



Details and Bar Arrangement of Cover S=1:20



NOTE:

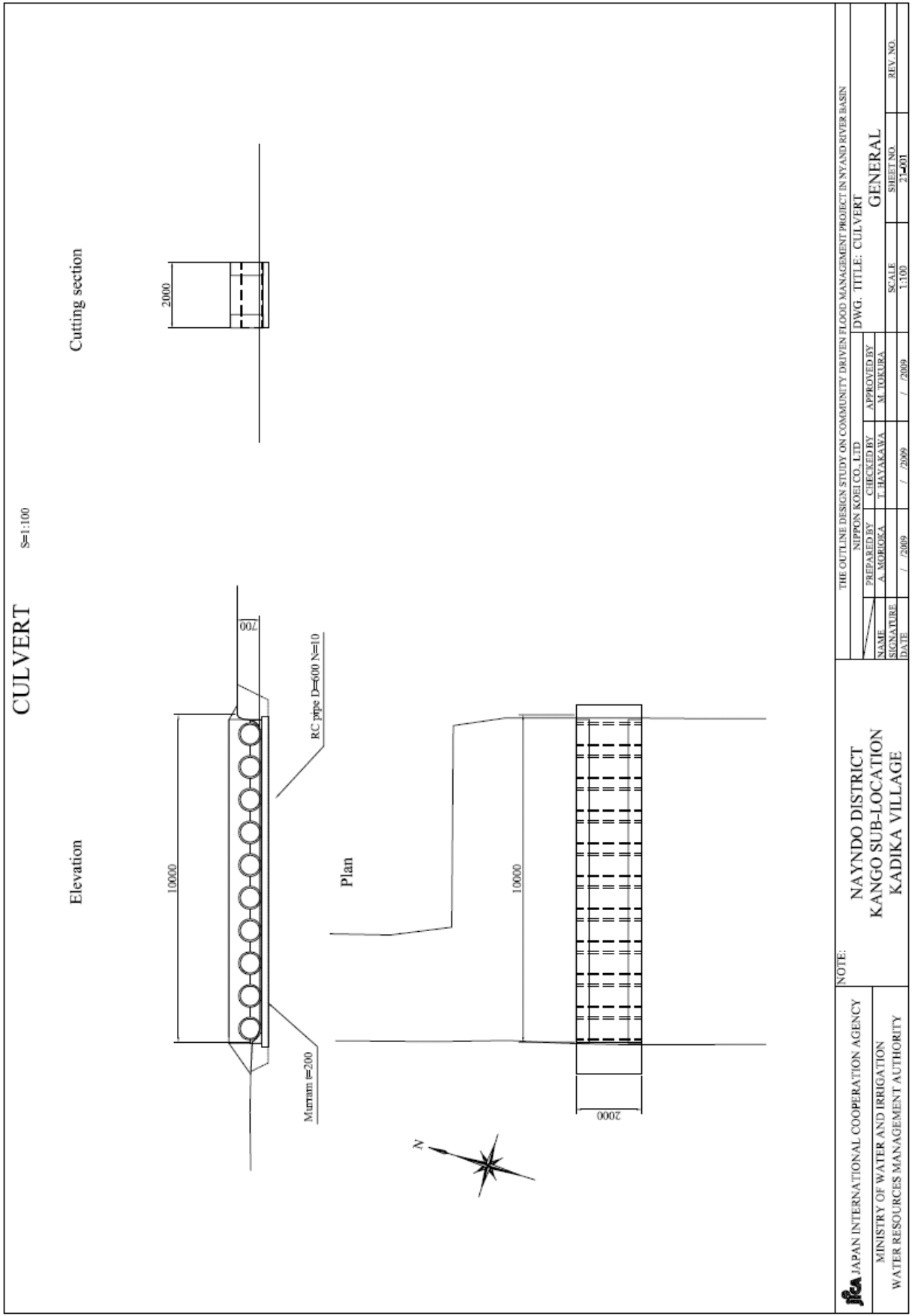
ifca JAPAN INTERNATIONAL COOPERATION AGENCY
 MINISTRY OF WATER AND IRRIGATION
 WATER RESOURCES MANAGEMENT AUTHORITY

NAYNDO DISTRICT
 KANGO SUB-LOCATION
 WAKESI VILLAGE

THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAYND RIVER BASIN

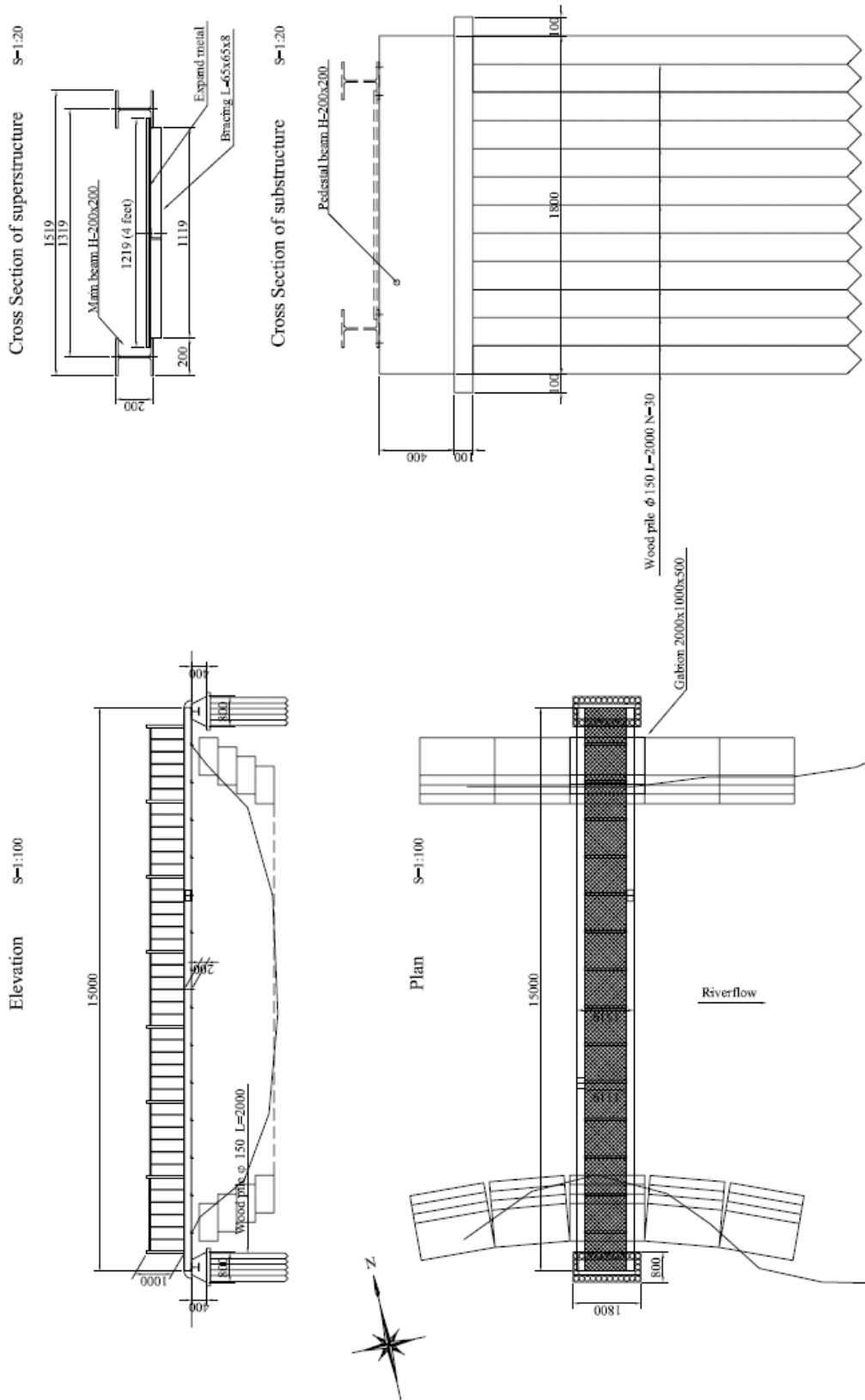
NIPPON KOBEI CO. LTD.		DWG. TITLE: CULVERT	
PREPARED BY	CHECKED BY	APPROVED BY	GENERAL
A. MORIOKA	T. HAYAKAWA	M. TOKURA	
SIGNATURE	SCALE	SHEET NO.	REV. NO.
DATE	1:100	14/01	

補図 3.43 ワケシ村：カルバート



補図 3.44 カディカ村：カルバート

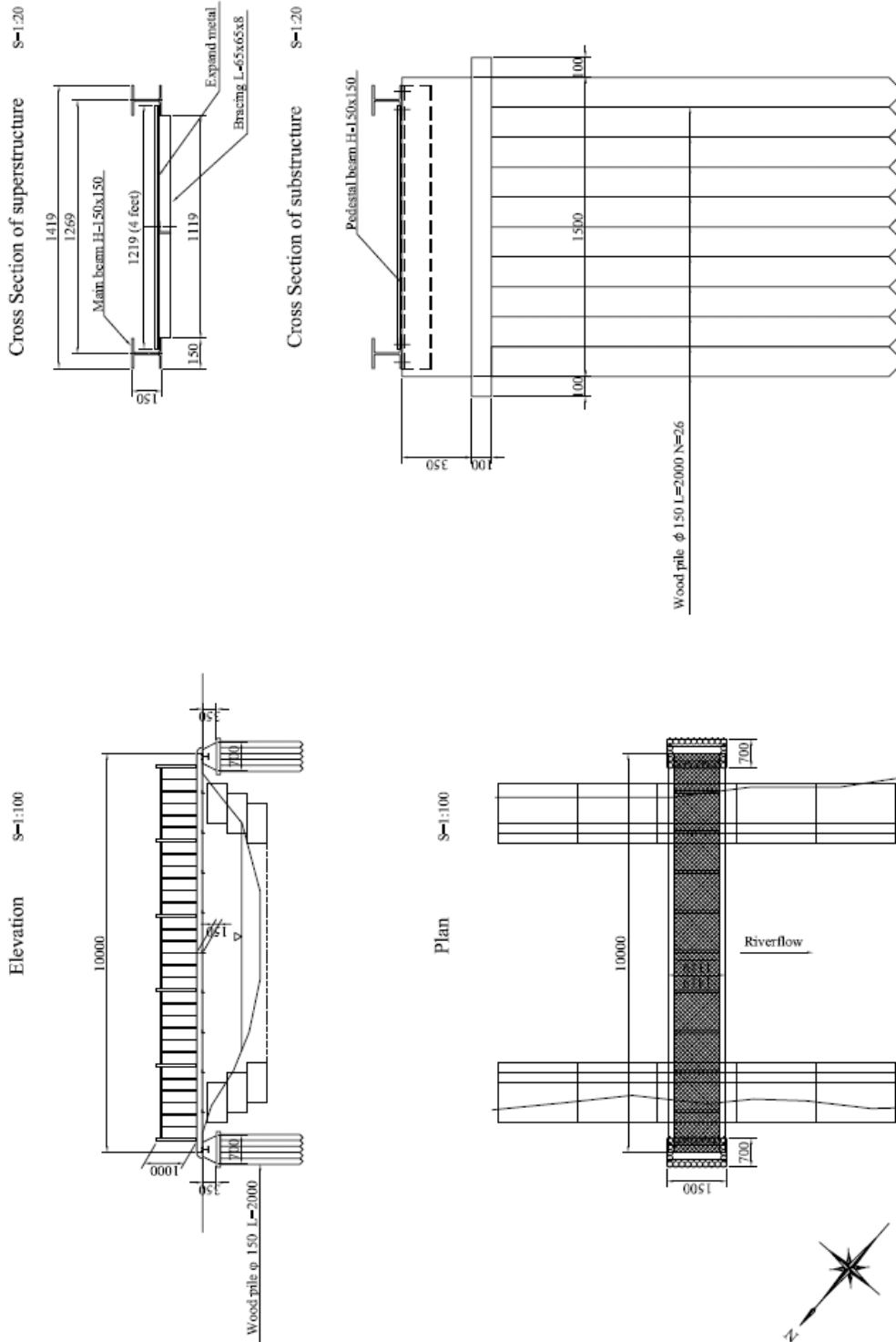
FOOTBRIDGE



<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN</p> <p>NIPPON KOBEL CO. LTD.</p> <p>PREPARED BY: A. MORIOKA / 2009 / 2009 / 2009</p> <p>CHECKED BY: T. HAYAKAWA</p> <p>APPROVED BY: M. TOKURA</p>		<p>DWG. TITLE: FOOTBRIDGE</p> <p>GENERAL</p> <p>SCALE: 1:100</p> <p>SHEET NO. 2-002</p> <p>REV. NO.</p>	
<p>NAME: A. MORIOKA</p> <p>SIGNATURE: [Signature]</p> <p>DATE: / 2009 / 2009 / 2009</p>		<p>NOTE:</p> <p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY</p> <p>MINISTRY OF WATER AND IRRIGATION</p> <p>WATER RESOURCES MANAGEMENT AUTHORITY</p>	
<p>NAYNDO DISTRICT</p> <p>KANGO SUB-LOCATION</p> <p>KADIKA VILLAGE</p>		<p>0081</p>	

補図 3.45 カディカ村：人道橋

FOOTBRIDGE



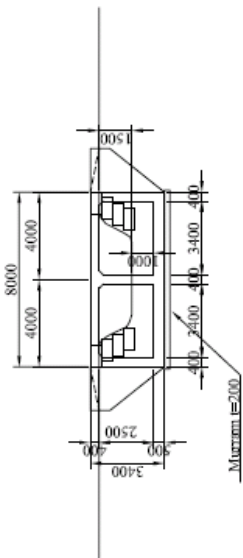
<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAYDO RIVER BASIN</p> <p style="text-align: center;">NIPPON KOEI CO. LTD.</p>		<p>DWG. TITLE: FOOTBRIDGE</p>	
<p>PREPARED BY</p> <p>A. MORIOKA</p>	<p>CHECKED BY</p> <p>T. HAYAKAWA</p>	<p>APPROVED BY</p> <p>M. TOKURA</p>	<p>GENERAL</p>
<p>SIGNATURE</p>	<p>DATE</p>	<p>SCALE</p> <p>1:100</p>	<p>SHEET NO.</p> <p>2-003</p>
<p>NOTE:</p> <p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY</p> <p>MINISTRY OF WATER AND IRRIGATION</p> <p>WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>NAYNDO DISTRICT</p> <p>AYWEYO SUB-LOCATION</p> <p>NYACHODA VILLAGE</p>	

補図 3.47 ニヤチヨダ村：カルバート（2）

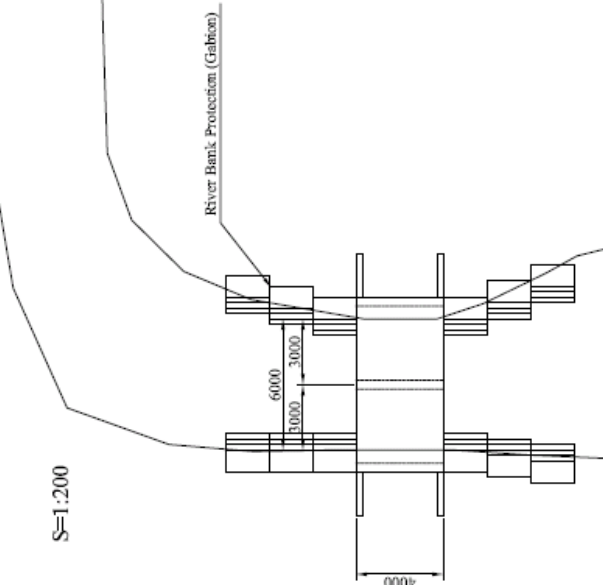
CULVERT (2)

S=1:100

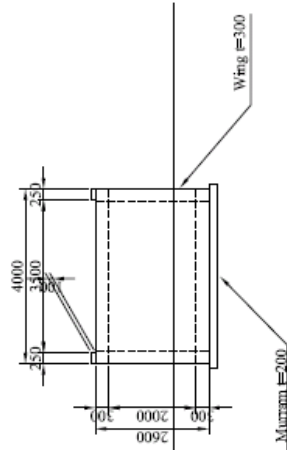
Elevation S=1:200



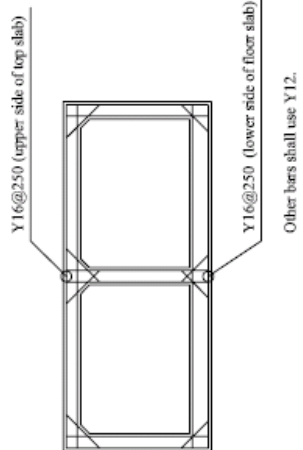
Plan S=1:200



Cutting section S=1:100



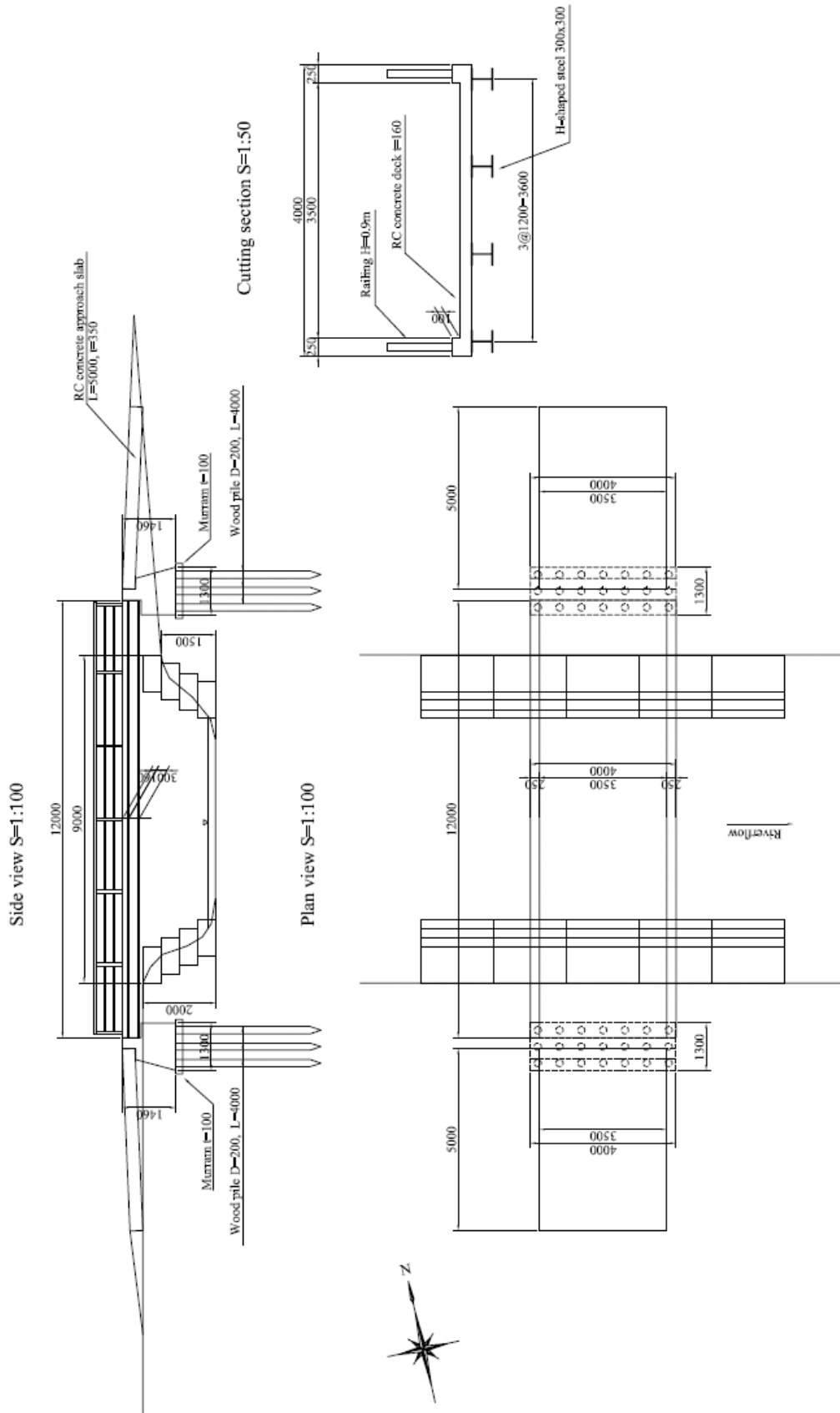
Cutting section



<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>NOTE: NAYNDO DISTRICT AYWEYO SUB-LOCATION NYACHODA VILLAGE</p>		<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN DWG. TITLE: CULVERT (2) GENERAL</p>	
<p>PREPARED BY A. MORIOKA</p>	<p>CHECKED BY T. HAYAKAWA</p>	<p>APPROVED BY M. TOKURA</p>	<p>SCALE 1:100</p>	<p>SHEET NO. 24/02</p>	<p>REV. NO.</p>
<p>DATE / / 2009</p>	<p>/ / 2009</p>	<p>/ / 2009</p>	<p>1:100</p>	<p>24/02</p>	<p></p>

補図 3.48 ニャチヨダ村：人道橋

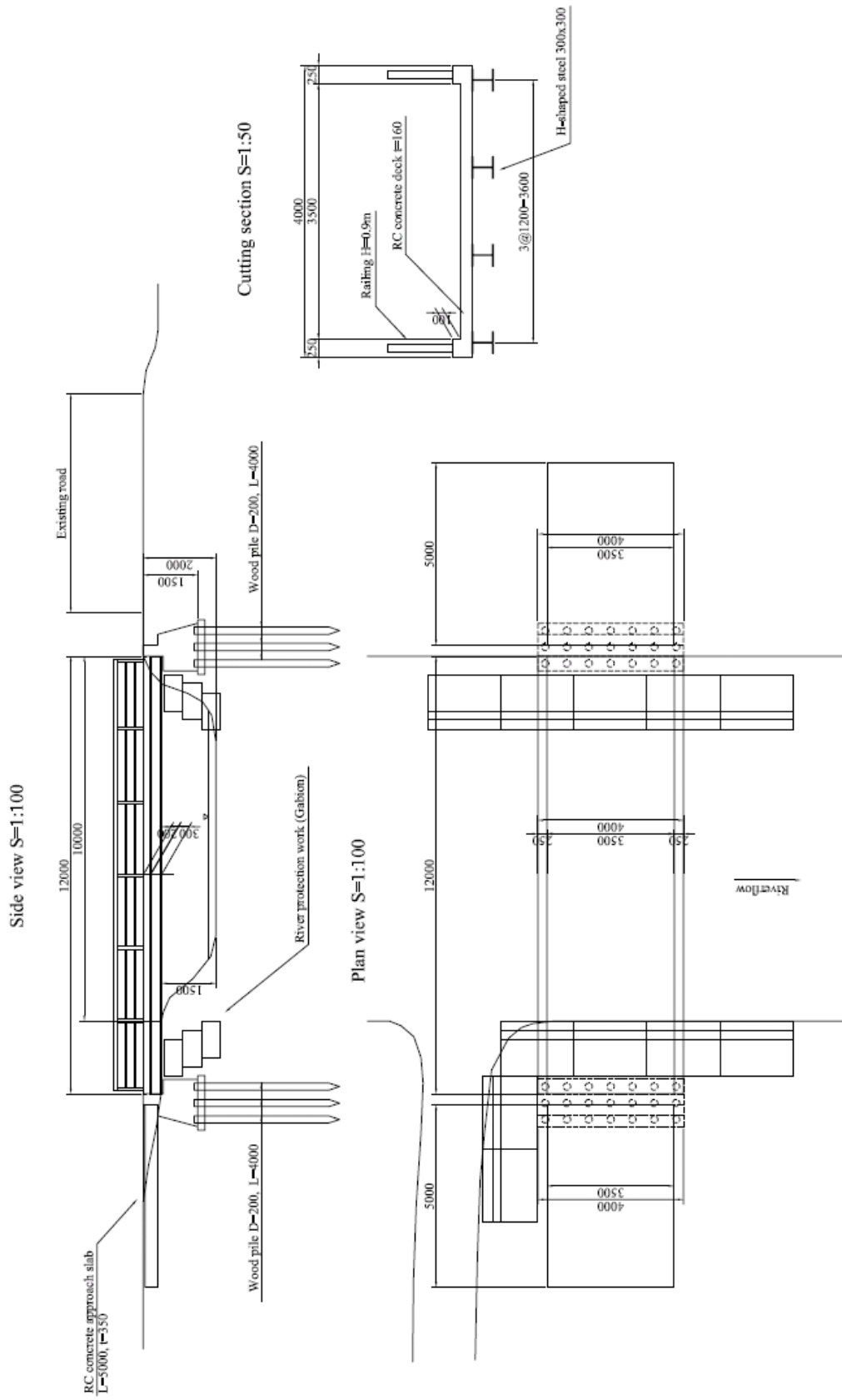
FOOTBRIDGE (1) S=1:100



<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN</p> <p>NIPPON KOKI CO., LTD.</p>		<p>DWG. TITLE: FOOTBRIDGE (1)</p>	
<p>PREPARED BY A. MORIOKA</p>	<p>CHECKED BY T. HAYAKAWA</p>	<p>APPROVED BY M. TORIURA</p>	<p>GENERAL</p>
<p>DATE / / 2009</p>	<p>DATE / / 2009</p>	<p>SCALE 1:100</p>	<p>SHEET NO. 2/401</p>
<p>NOTE:</p> <p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY</p> <p>MINISTRY OF WATER AND IRRIGATION</p> <p>WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>NAYNDO DISTRICT</p> <p>NYAKONGO SUB-LOCATION</p> <p>KOJUNGA VILLAGE</p>	

補図 3.49 コジュンガ村：人道橋 (1)

FOOTBRIDGE (2) S=1:100



<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY MINISTRY OF WATER AND IRRIGATION WATER RESOURCES MANAGEMENT AUTHORITY</p>		<p>NOTE:</p>		<p>NAYNDO DISTRICT NYAKONGO SUB-LOCATION KOJUNGA VILLAGE</p>		<p>THE OUTLINE DESIGN STUDY ON COMMUNITY DRIVEN FLOOD MANAGEMENT PROJECT IN NYAND RIVER BASIN DWG. TITLE: FOOTBRIDGE (2)</p>	
NAME	T. HAYAKAWA	CHECKED BY	T. HAYAKAWA	APPROVED BY	M. TOKURA	GENERAL	
SIGNATURE		DATE	/ 2009	DATE	/ 2009	SCALE	1:100
						SHEET NO.	2/402
						REV. NO.	

補図 3.50 コジュンガ村：人道橋（2）

補足 4 非構造物対策に関するプロジェクト・デザイン・マトリクス

本プロジェクトの非構造物対策に関するプロジェクト・デザイン・マトリクスを次ページに示す。

「非構造物対策に関するプロジェクト・デザイン・マトリクス」

プロジェクト名 : ケニア国気候変動への適応のためのニヤンド川流域洪水対策計画
 対象地域 : ケニア国ニヤンザ州キスム県の 12 村及びニヤンド県の 12 村
 (キスム県の 12 村の内訳：ラエ・カニヤイカ、モウレム、ブワンダ、オテラ、カムガ、オヨラ、カニャンゴ、コムワガ、コウィティ、カムゲット・ウグウェ、コブド、カニアオモ)
 (ニヤンド県の 12 村の内訳：コラル、ワシエセ、カマガガ、ワンガヤ・モンバサ、アチユオドホ、ワケシ、コジエム、カニルム、カディカ、ニヤチヨダ、マスネ、コジュンガ)
 実施期間 : 交換公文の締結から約 23 ヶ月
 ターゲットグループ : 対象地域 (24 村) のコミュニティ洪水管理組織

プロジェクトの要約	指標	入手手段	外部条件
上位目標 ニヤンド川流域の気候変動により拡大する洪水被害に対する防災能力が向上する。	1 洪水による被災者数が減少する。 2 ニヤンド川流域において洪水管理が展開される。	1 被災記録 2 アンケート調査	1 ケニア政府が本プロジェクトの経験を他の村へ展開する。
プロジェクト目標 対象コミュニティの洪水被害に対する防災能力が向上する。	住民組織による洪水管理への能力が強化される。	1 Lessons Learned 会議における満足度調査 2 住民組織への登録者数	
アウトプット 1 対象地域のコミュニティ洪水管理組織 (CFMO) が組織化される。 2 CFMO による運営・維持管理体制が整備される。 3 CFMO による洪水管理体制が整備される。 4 対象地域の洪水管理に関する知識が向上する。	1.1 全 CFMO に条例が制定される。 1.2 全 CFMO に財務計画が制定される。 2 全 CFMO に構造物対策の維持管理計画が整備される。 3.1 全 CFMO に洪水管理計画が整備される。 3.2 全 CFMO に避難体制計画が整備される。 4.1 対象 16 校にて防災教育計画が整備され、実施される。 4.2 洪水管理に関するラジオ番組が作成され、継続的に放映される。 4.3 洪水管理に関するポスターが作成され、防災広報ツールとして利用される。	1.1.1 各 CFMO の条例 1.1.2 会議数及び参加者数 1.2.1 各 CFMO の財務計画 1.2.2 各 CFMO の資金調達プロポーザル作成マニュアル 1.2.3 会議数及び参加者数 2.1 各 CFMO の維持管理計画 2.2 講義及び実地訓練の開催数及び参加者数 2.3 満足度調査 3.1 各 CFMO の洪水管理計画 3.2 避難訓練への参加者数 4.1.1 教師用訓練マニュアルの配布状況 4.1.2 生徒用教科書の配布状況 4.1.3 実地研修の評価結果 4.1.4 参加生徒の満足度調査 4.1.5 防災教育の受講者数 4.2.1 長時間番組及びスポット CM の放送記録 4.2.2 ラジオ番組の質問調査 4.3 ポスターの配布数	1 気候変動による突発的な降雨が発生しない。 2 対象地域の治安が悪化しない。
活動 1.1 CFMO の組織化訓練を実施する。 1.2 CFMO の財務訓練を実施する。 1.3 CFMO の維持管理訓練を実施する。 2.1 CFMO の洪水管理計画を作成する。 2.2 CFMO の避難訓練を実施する。 3.1 防災教育を実施する。 3.2 洪水管理に関するラジオ番組を放送する。 3.3 洪水管理に関するポスターを作成する。	日本側 1 非構造物対策の管理要員 1.1 邦人専門家 (12MM) 1.2 現地専門家 (2 名、計 42MM) 2 非構造物対策を実施する現地 NGO (非構造物対策を 3 つのパッケージに分割し、競争入札により現地 NGO を選定) 3 関連器具など 3.1 維持管理器具 3.2 掲示板 (避難経路、避難場所及びハザードマップを示した 3 種類) 3.3 避難訓練用器具	投入 ケニア側 常駐のカウンターパート職員 (1 名)	前提条件 1 ケニア政府の防災に関する基本政策に変更がない。 2 ケニア政府が CFMO への継続的な支援を WRUA を通じて行う。