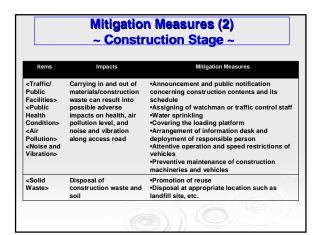
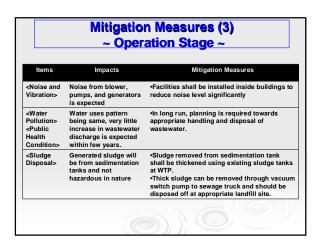
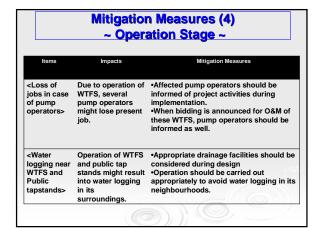
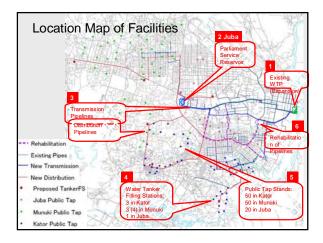


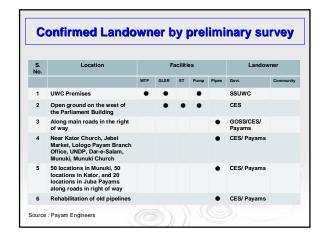
		n Measures (1) uction Stage ~
Items	Impacts	Mitigation Measures
<landscape></landscape>	No significant impact expected	•Installation of information desk to collect complaints from residents and neighborhoods
<air Pollution></air 	Generation of particulates and exhaust gases	Dust control through water sprinkling at construction site Preventive maintenance of construction machineries and vehicles Attentive operation and speed restrictions of construction vehicles and equipment
<noise and<br="">Vibration></noise>	Generation of noise and vibration from heavy vehicles and equipments	Announcement of construction schedule and contents at site Attentive operation and speed restrictions of construction vehicles and equipment
<flora and<br="">Fauna></flora>	Few trees might be required to cut in the proposed location of the WTP or along the alignment of the pipes	*Cutting of trees should be avoided as much as possible *In unavoidable cases, new trees should be planted after construction completes.

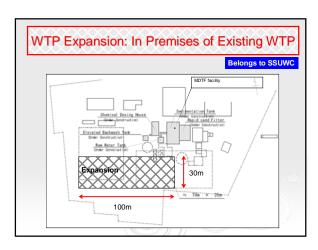




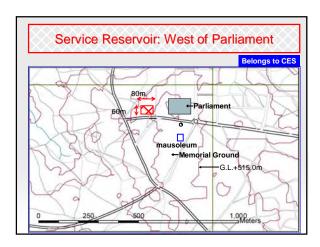


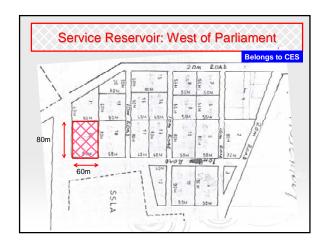


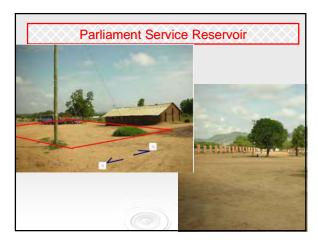


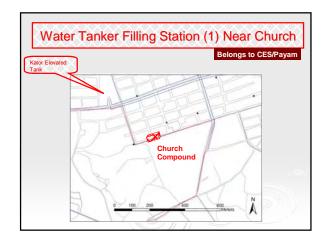




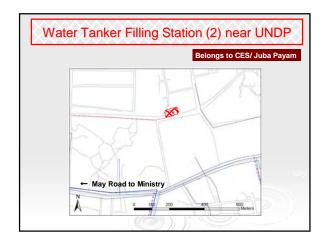




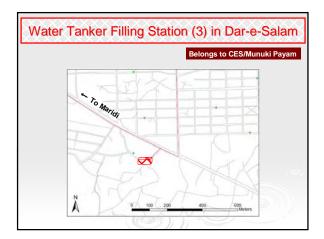




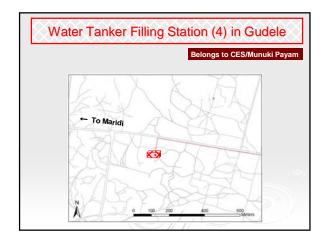


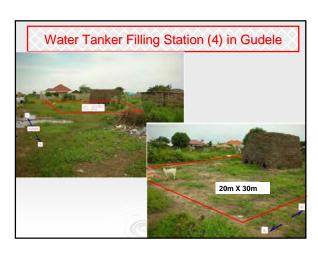


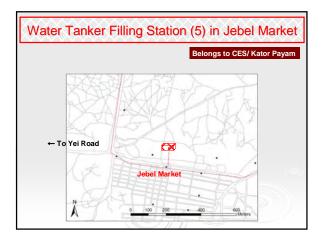




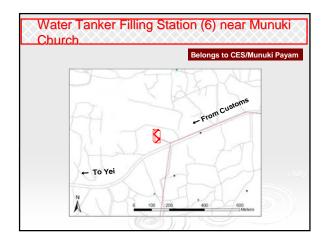




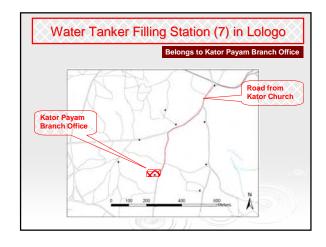




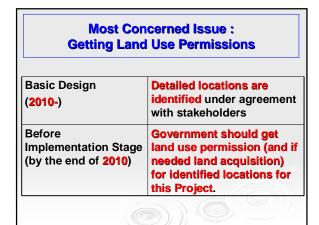


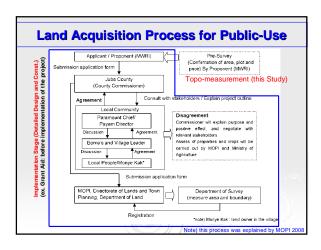




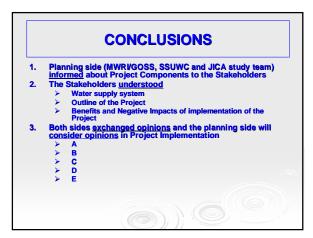












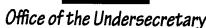
CONCLUSIONS 1. Both sides build basic consensus on the JUBA Water Supply Improvement Project 2. Go to next steps (preparation for smooth implementation of project)



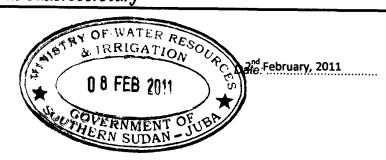


GOVERNMENT OF SOUTHERN SUDAN MINISTRY OF ENVIRONMENT





Our R	ef:
Your F	Ref:
Ey.	Issac Liabwel Under secretary Ministry of water Resources and Irrigation GOSS/Juba.



Subject:- APPROVAL OF AN ENVIRONMENTAL IMPACT ASSESSMENT REPORT.

Reference to your letter dated 30th December, 2010 in regards to the submission of your Environmental Impact Statement (EIS) for the improvement of water supply system project in Juba. We regret to inform you that we could not get the attachment as mentioned in your letter. Until we received an explanation from one of your officials, we could not be able to give this delayed reply. However, JICA had already been given an approval and as this was meant for the same project, we would like to forward to you the same terms.

Hence, in the absence of your EIS, basing ourselves on JICA'S Environmental Report for the same project and given the fact that JICA will be the implementer of the Project in question in accordance with the EIA and SIA requirements, we therefore certify that the Initial Environmental Examination Report submitted by JICA Sudan Office has been reviewed and an Authorization is hereby granted for the implementation of the project, subject to the following conditions:-

- 1. You the project proponent and the implementer must comply with all mitigation measures detailed within the EMP as in tables 1.8 and 12.9, section (1.3); pages (1.4 and 1.15) in the report.
- 2. The proponent shall avoid destruction of any sites with high amenity values such as the Archaeological/historical remains, recreational sites etc.
- 3. The proponent must take measures to closely monitor and repair damages causing leakages and contamination from cracked structures, damage pipes, faulty valves etc.
- 4. The proponent shall provide fencing to protect the water supply points.
- 5. The proponent shall compensate the affected population according to the international/JICA'S social safeguards guidelines and shall ensure adherence to the occupational health and safeguards requirements during the different construction phases.
- 6. The proponent and the implementer shall throughout the project construction period, manage and mitigate all potential environmental impacts, keep high engineering and construction standards and practices.

Amb. (Rtd.) Kual Alor Kual Under Secretary Ministry of Environment GOSS/Juba

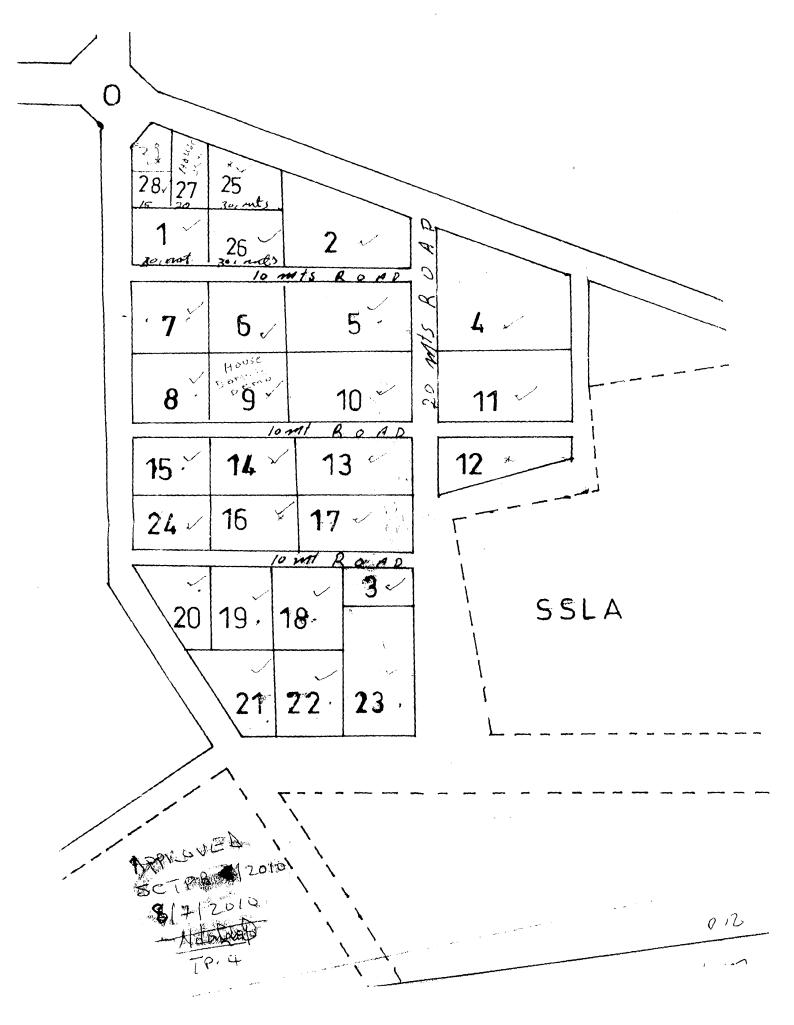


STATE MINISTRY OF PHYSICAL INFRASTRUCTURE DIRECTORATE OF SURVEY CENTRAL EQUATORIA STATE JUBA.

SKETCH MAP.

Town 1 61 60 61.
TOWII:
Plot No:Sq. Mts.
Block No: Hall Blasteller
Property of Mr./ Mrs. Souther Sudue 116 bene Water
TE 15H- A TO
This is to certify that, the dimensions shown on the above drawing are for the above quoted Plot, not to scale. The Sum of SDG
as croquets fees vide R.O. NO. 440696 Date: $17 - 12 - 2010$
Director General, Directorate of Survey
State Ministry of Physical Infrastructure,
Central Equatoria State
Juba.

34	FORMS:		
	(1)-	Application for ellotment-under Fara I	(3) of the
		Town Lends Scheme 1947.	•
, 0 ,	•	Town ,,	, # \$.».A.» • • • • • • •
		Flot No	
		Block NoArea.	500m ²
		S.T.F.B. Minute Mumber:	!
		If Relevent.	
		S.T.P.D: Flan Munber: Southern Sudan Urban Wa	ater Corporation (GOSS)
		Proposed Allottee: Water Tank	
		Furpose of Allotments	
		Whether Allotment is to Final: Final	
		ma in the second	be Constitueted
		Conditions of Allotment (if any) ,,,,,	op oogsuraciea
		in permanent materials	
		EMMANUEL MATAYO WANI	• • • • • • • • • • •
		CHAIRMAN	•
DA		.12.2010.	
	(a) Ar	allowent shall be in the following for	n :-
		FINAL/ALLOTMENT	STRIKE OUT
		•	WHICH IS NOT
			REQUIRED.
		Town23 Block No. ,,,,,	B _a rlaman
		Flot No. ; square 2	2 # * * * * * * * * * * *
4.		Area:	mproximetely.
		S.T.F.R.Mimute No	:
		S.T. B Flan No	
		•••••••	
		Final Allotment of the above mention p	lot is
			STRIKE OUT
			WHICH IB NOT
			REQUIRED.
		Hereby made under I ara I (3) The Town Let	
		194♥ to	
		Unit. Water Tank	•
		For the purposed of	
			• • • • • • • • • •
		To be built in permanent (Material.	1
		KALISTO LADU SAVERIO	
		PERCHAD	•



(Letter Head of MOPI/CES)

Date: 15 th December, 2010

To: JICA Preparatory Survey Team

Subject: Land for Water Tanker Filling Stations

Re: The Project for the Improvement of Water Supply System of Juba in Southern Sudan

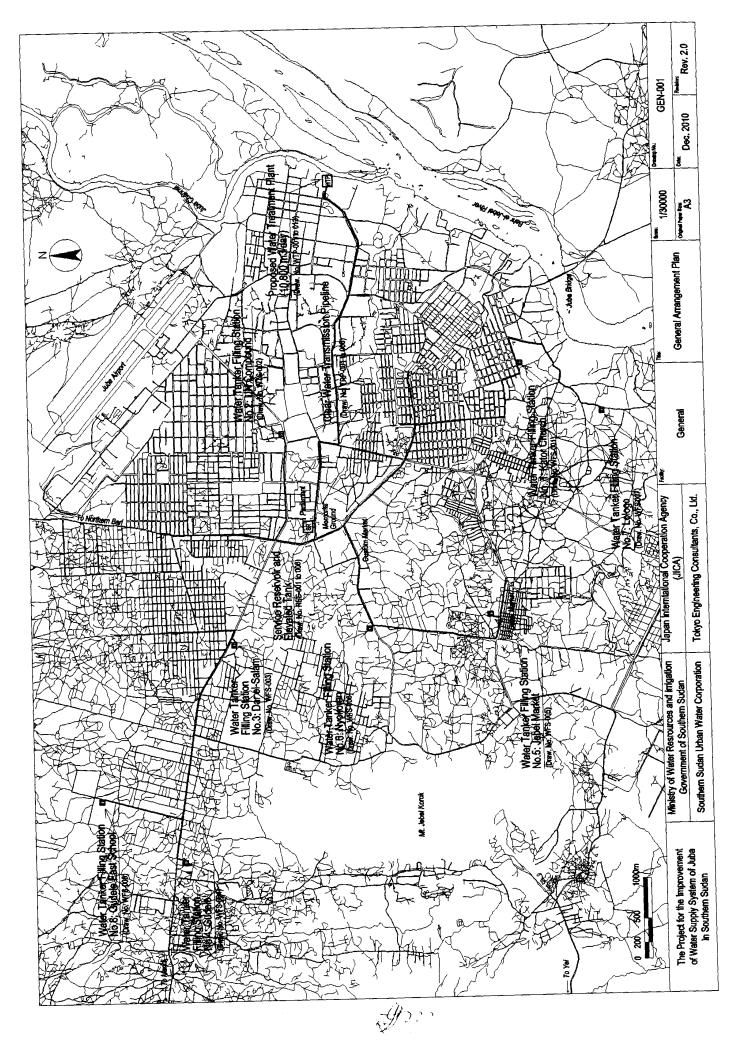
With regard to the sites for water tanker filling stations, of which the layout plans ware presented by the Team as the Attachments, the Payam representatives and JICA Survey Team identified these locations in July 2010. We, hereby, confirm that the sites are the public lands under management of the Payam, the sites shall be properly secured by responsibility of the Payam, the sites shall be used and accessible only for the JICA Project and the sites shall not be occupied by any other entities of private nor public, whatsoever legally or illegally.

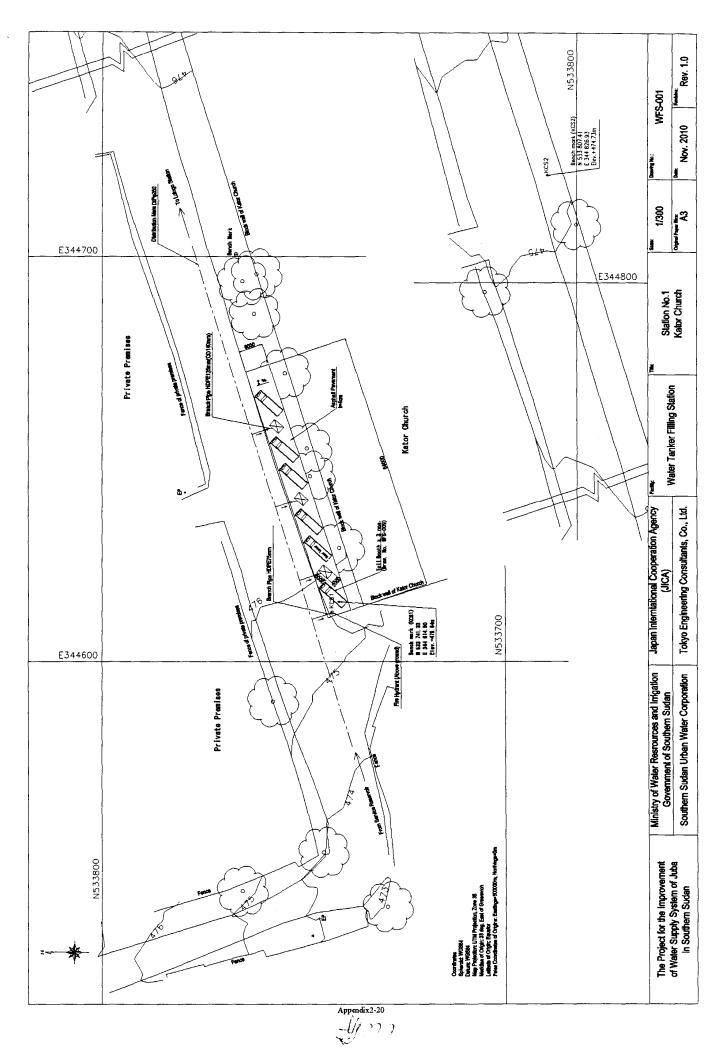
Sincerely,

egnr (\$35)

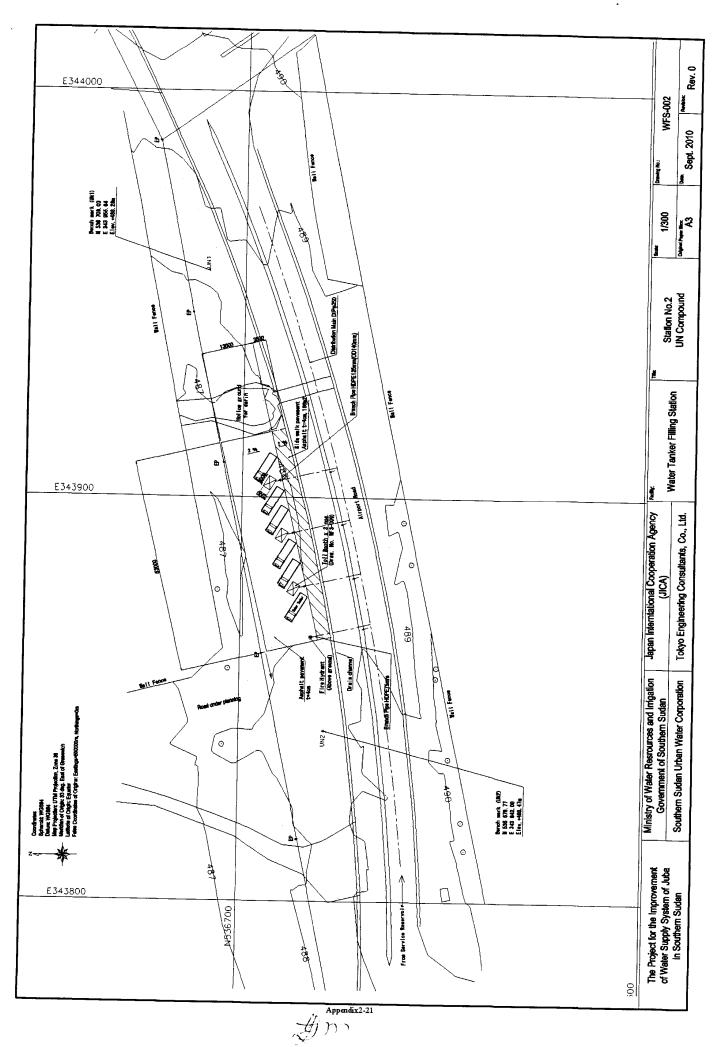
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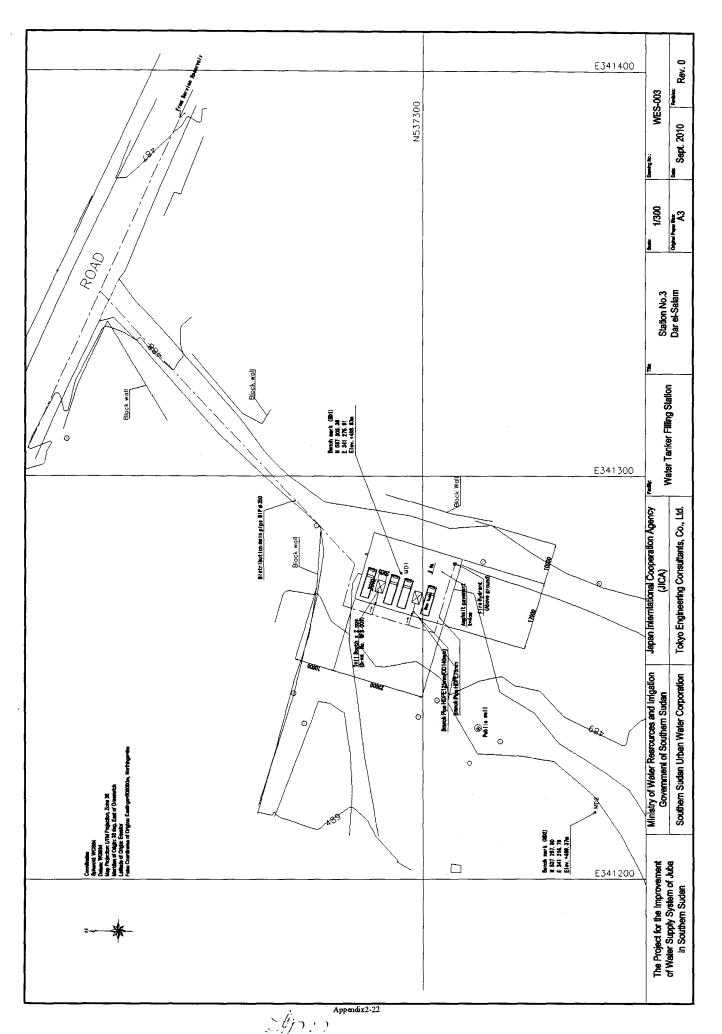
Ministry of Physical Infrastructure, Central Equatoria State

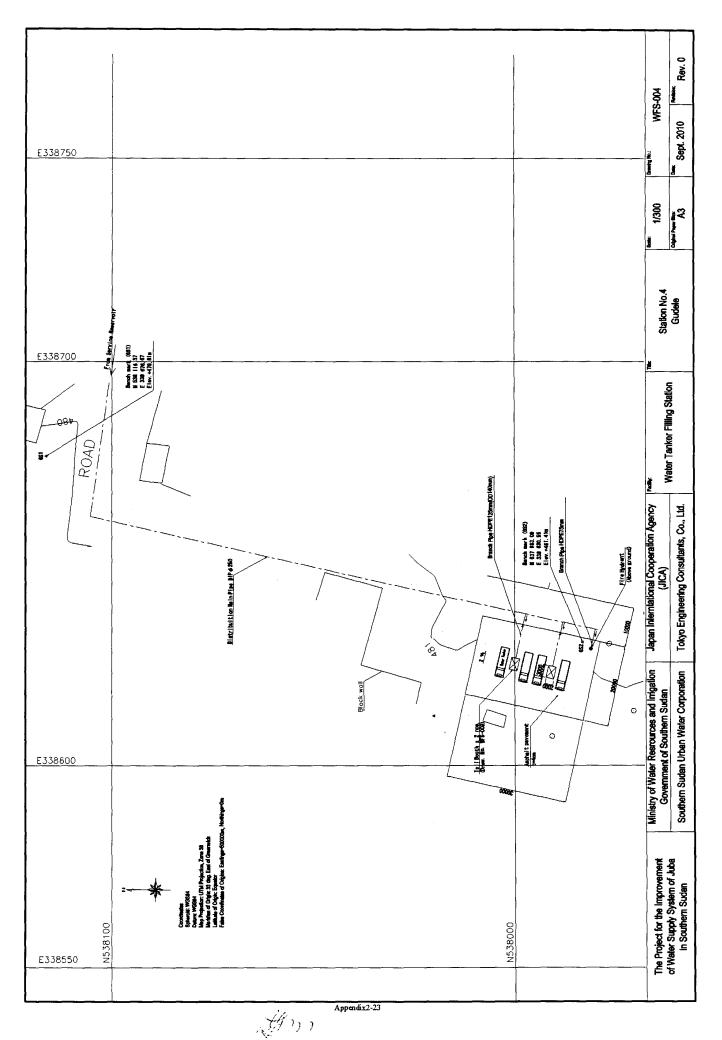




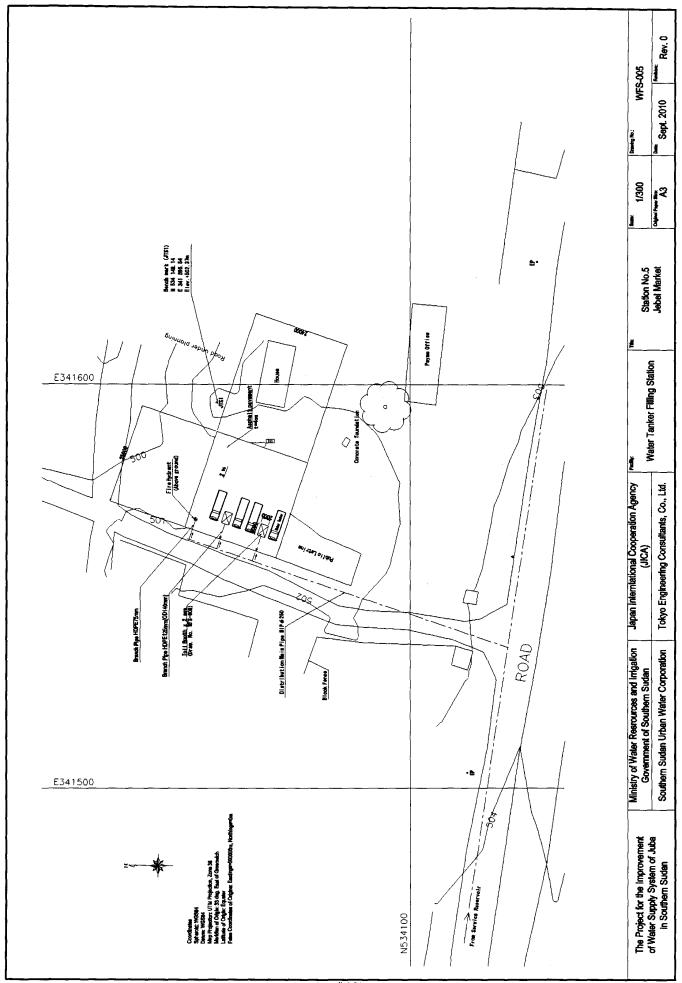
Appendix6-46





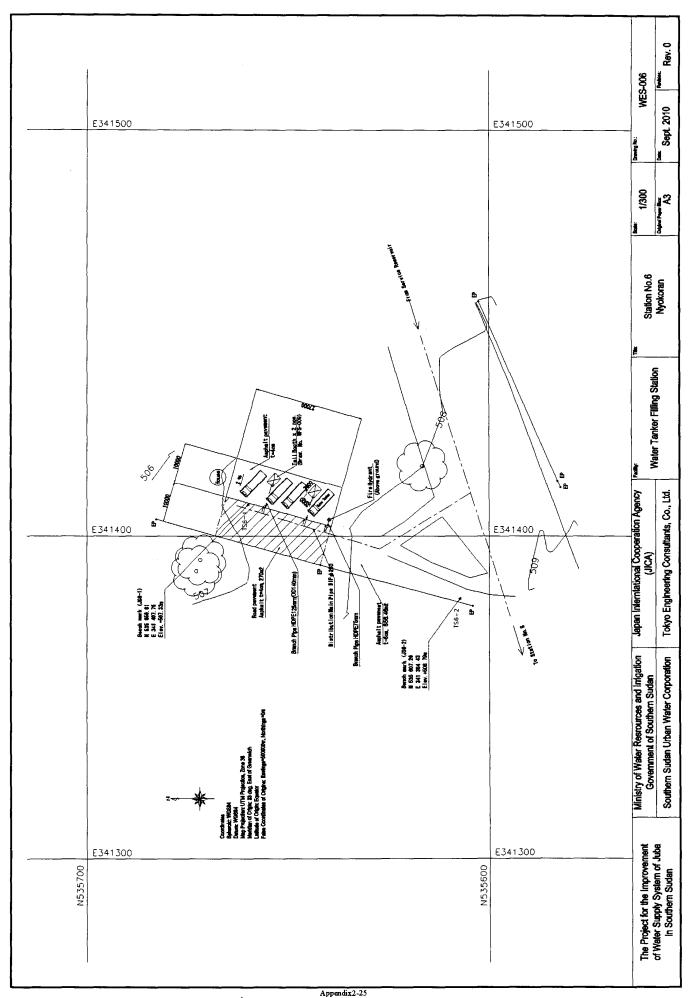


Appendix6-49

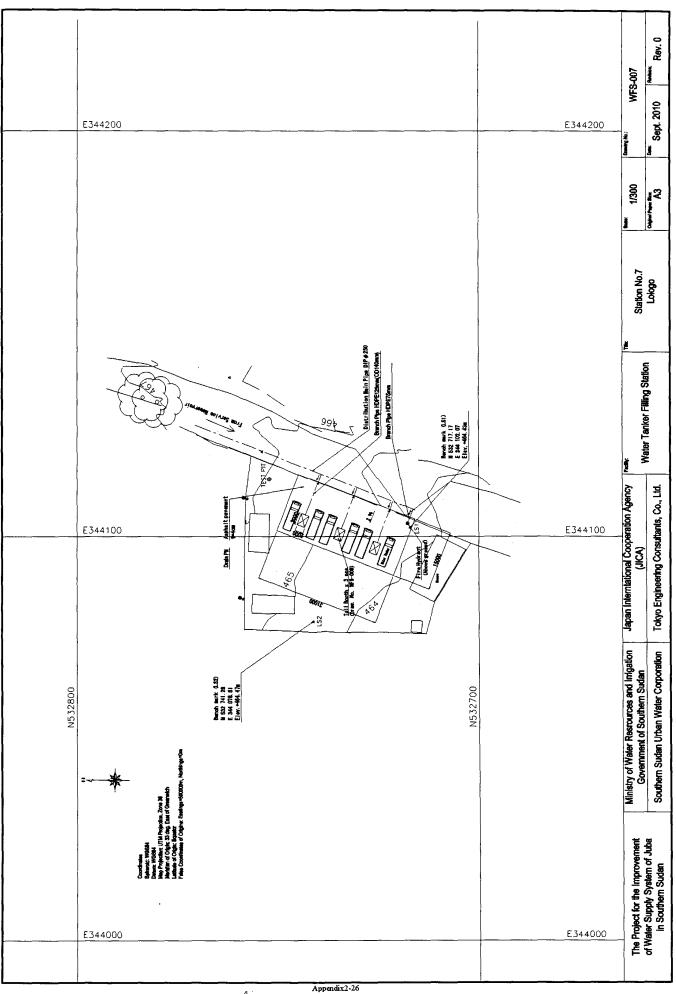


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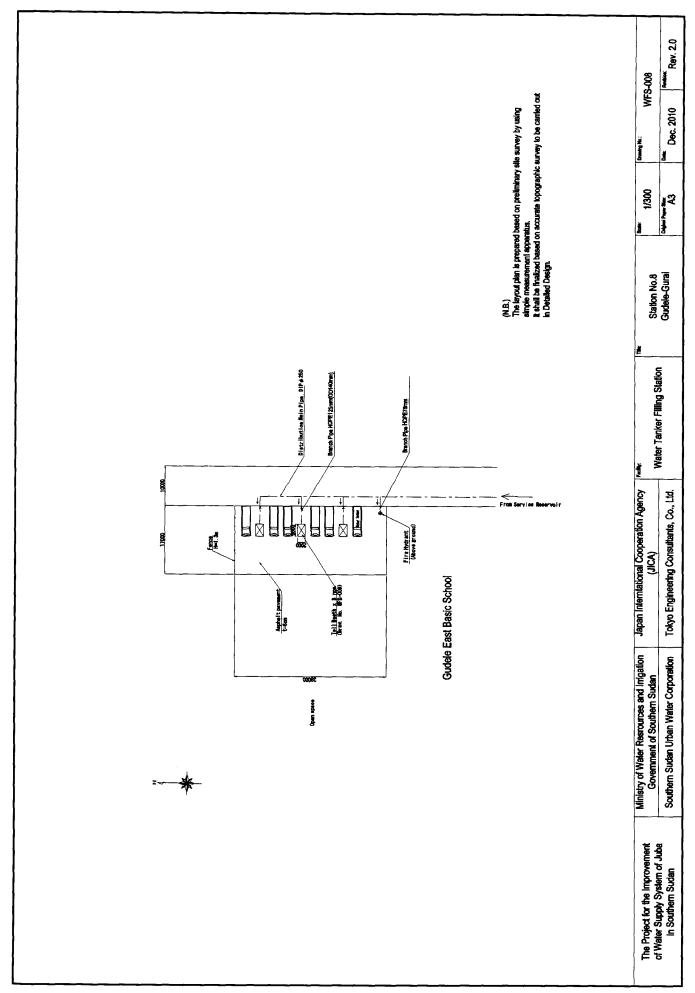
Appendix2-24



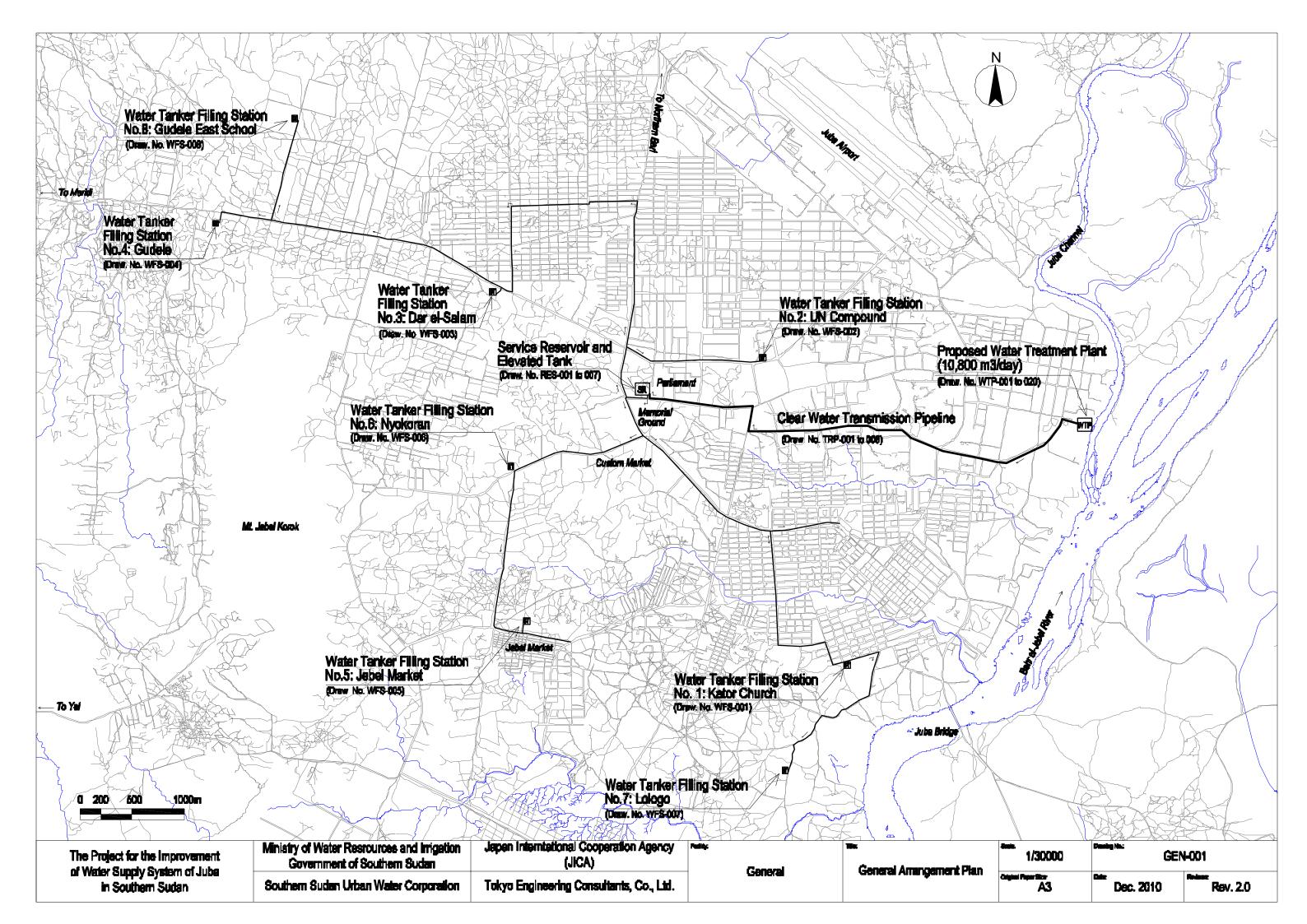
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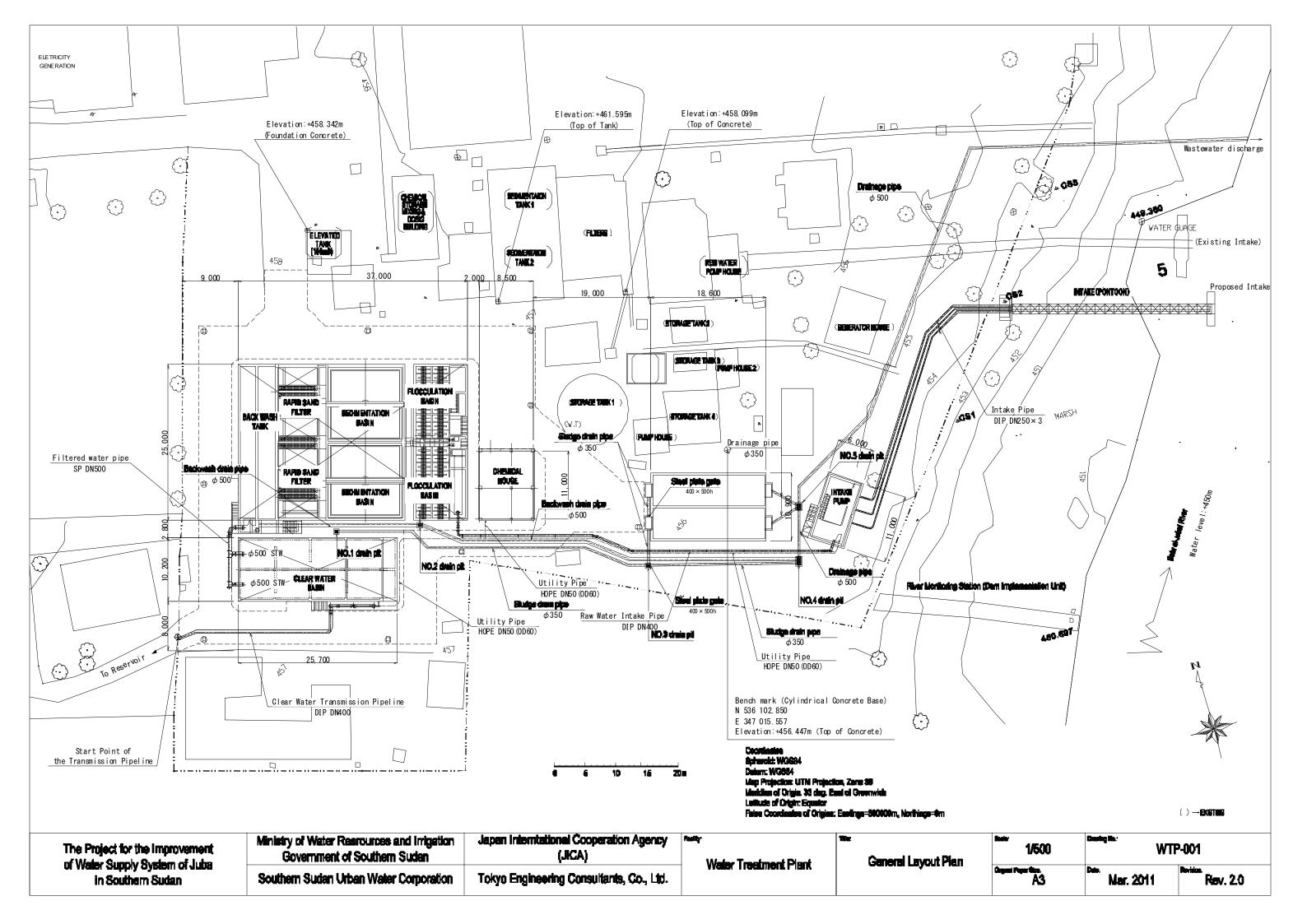


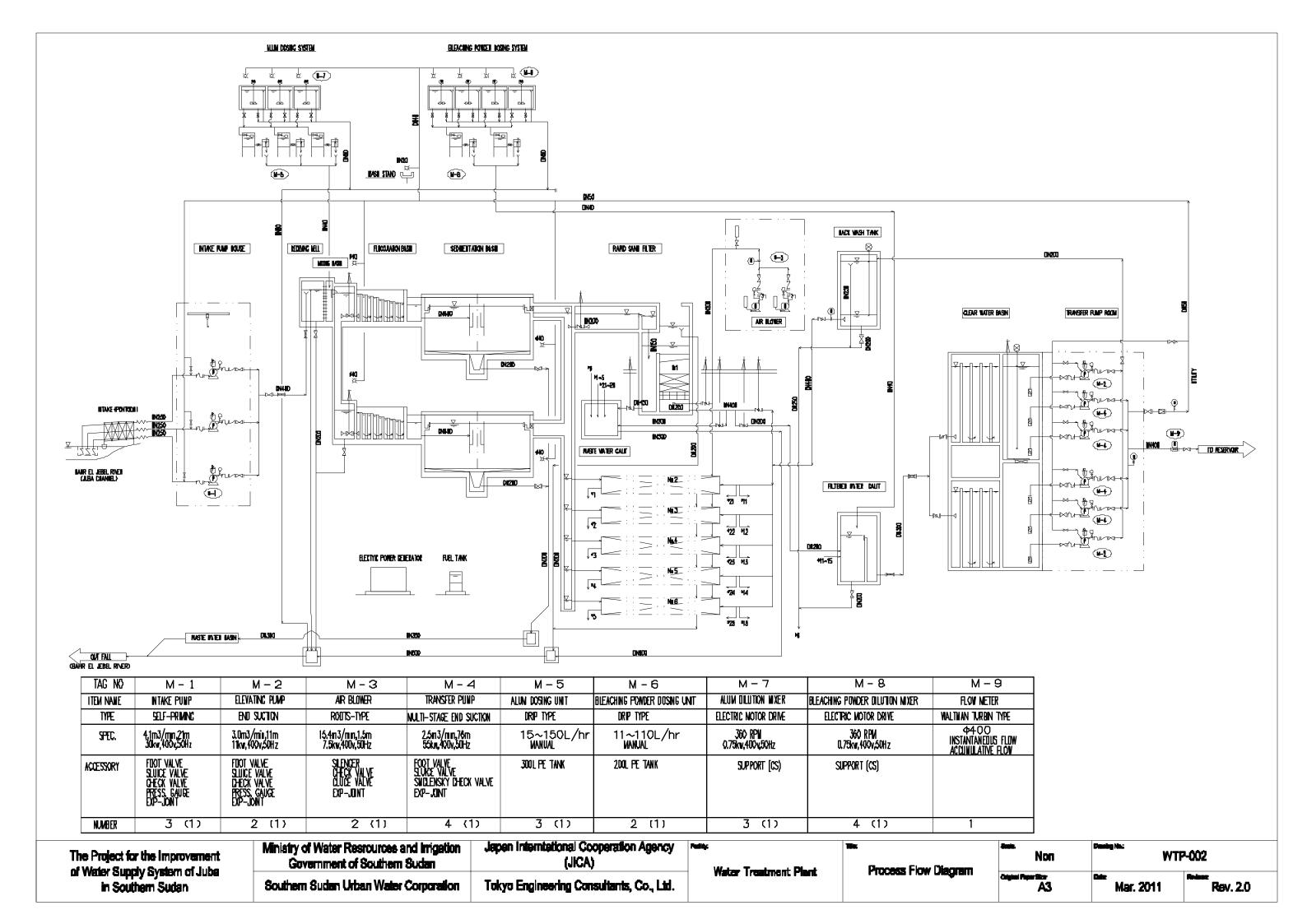
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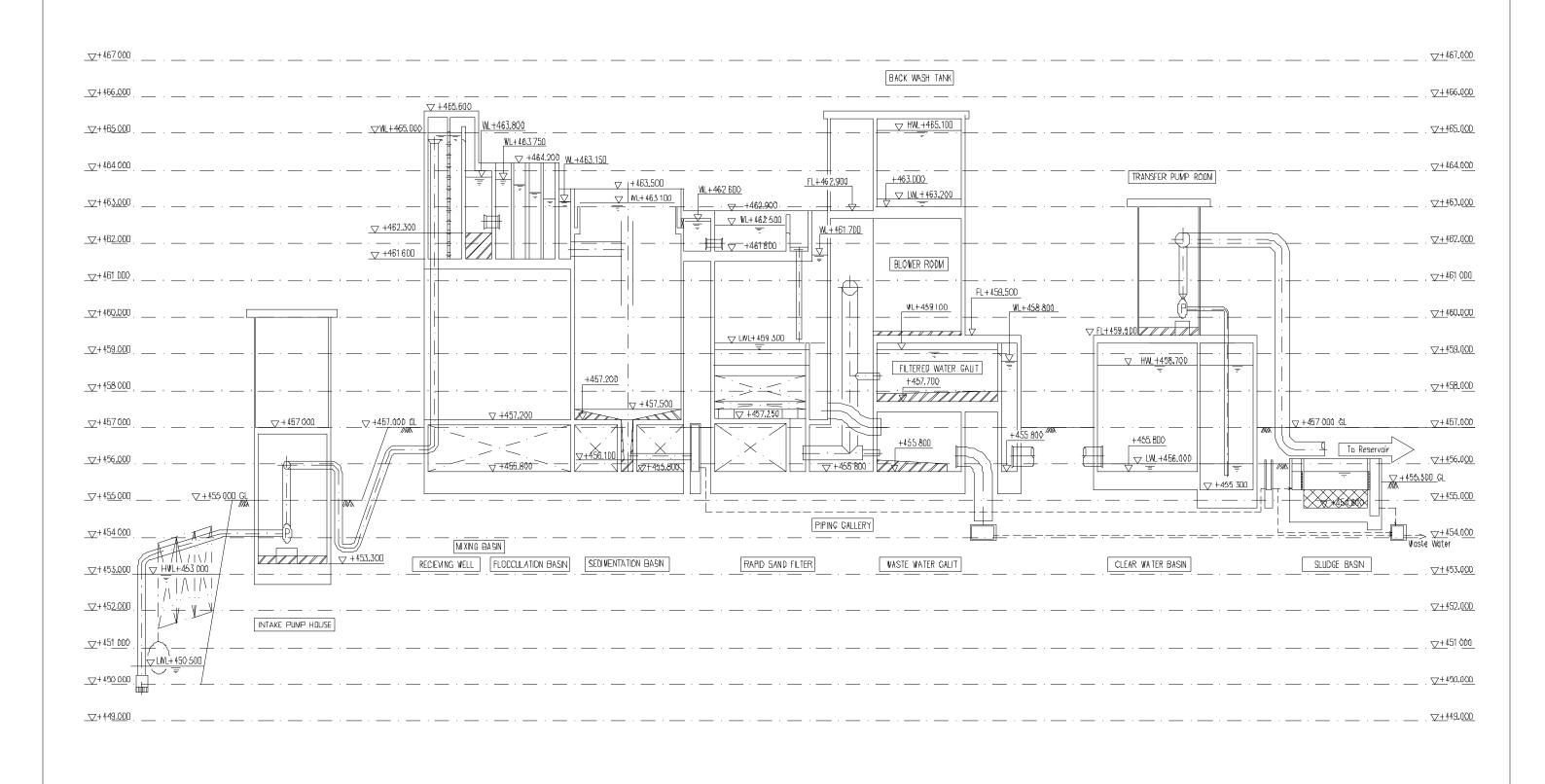






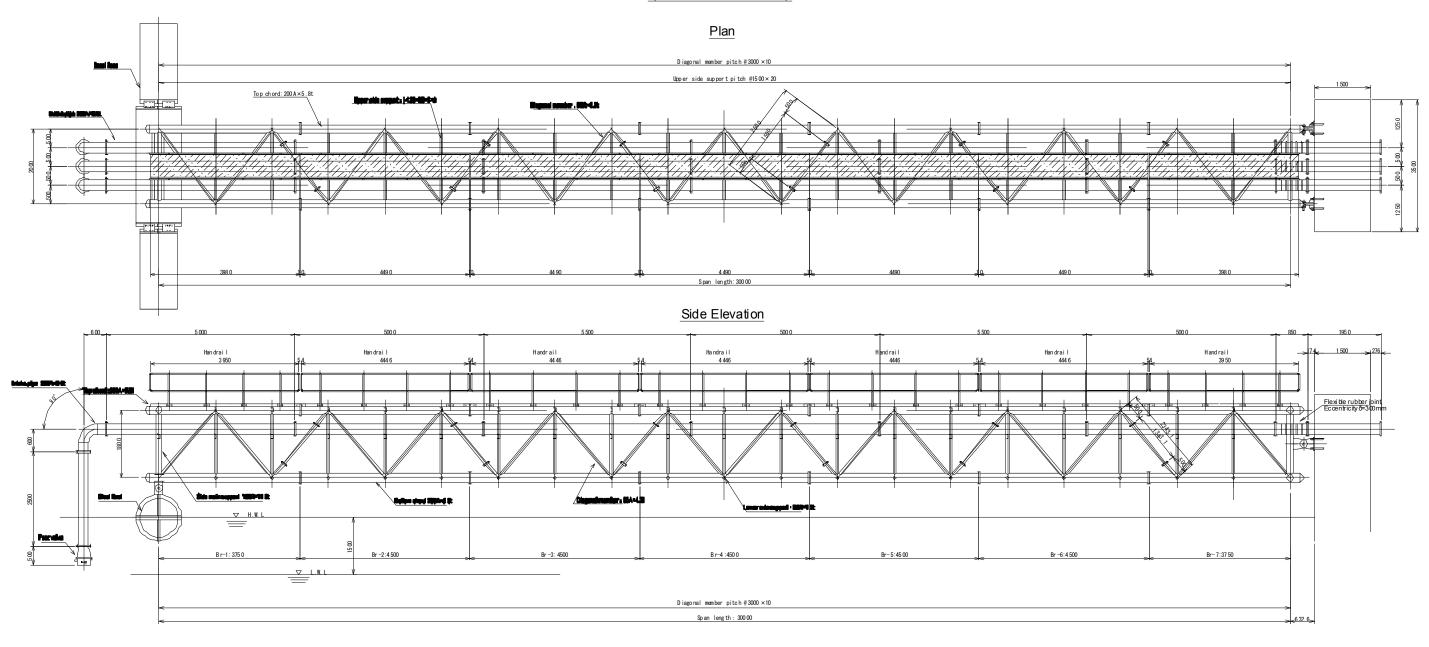






The Project for the Improvement of Water Supply System of Juba	Ministry of Water Resrources and Irrigation Government of Southern Sudan	Japan Internitational Cooperation Agency (JICA)	Water Treatment Plant	Water Level Profile	Non	WTP-003
in Southern Sudan	Southern Sudan Urban Water Corporation	Tokyo Engineering Consultants, Co., Ltd.			Original Paper Sizer A3	Mar. 2011 Rev. 2.0

<u>Intake Pipe on Box Truss Support with Float</u> (Dia. 250mm x 3 nos.)



The Project for the Improvement
of Water Supply System of Juba
in Southern Suden

Ministry of Water Resrources and Imgation Government of Southern Sudan	
Southern Sudan Urban Water Corporation	

Jepan Interntational Cooperation Agency (JICA)
Tokyo Engineering Consultants, Co., Ltd.

Facility:
- Water Treatment Plant

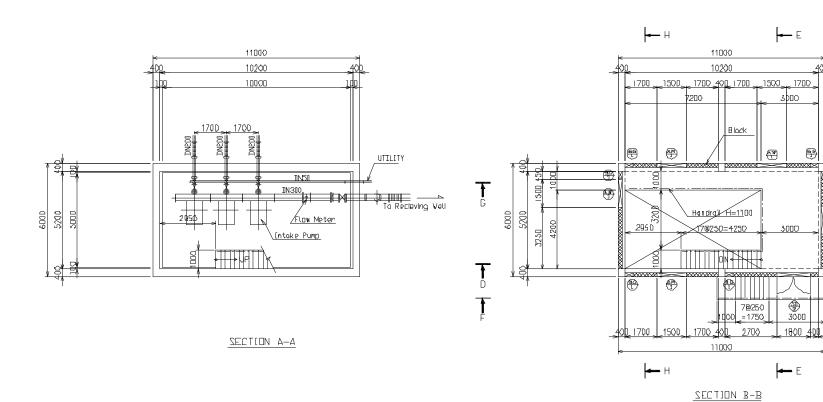
Water Intake

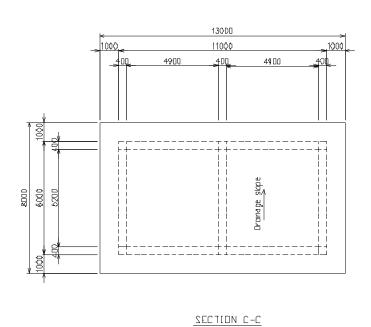
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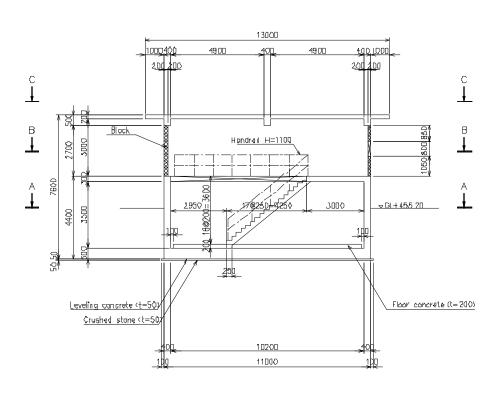
 1/100
 WTP-004

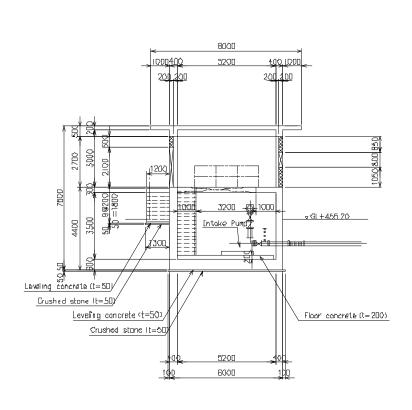
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 Revision:

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 Rev. 2. 0







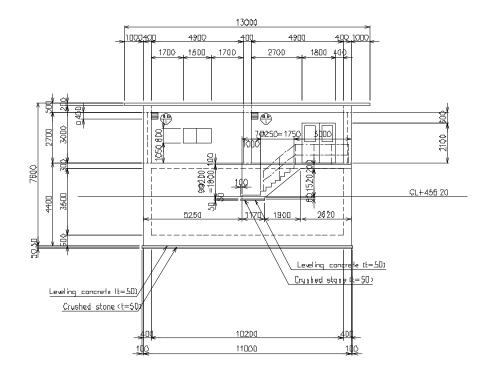


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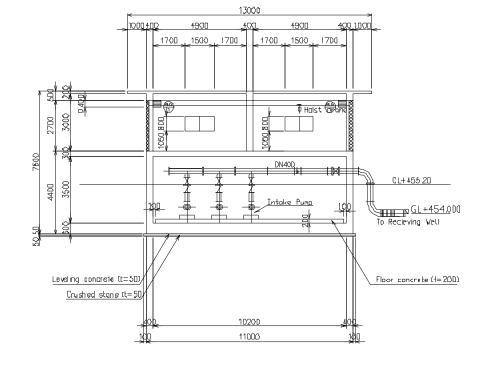
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SECTION D-D SECTION E-E

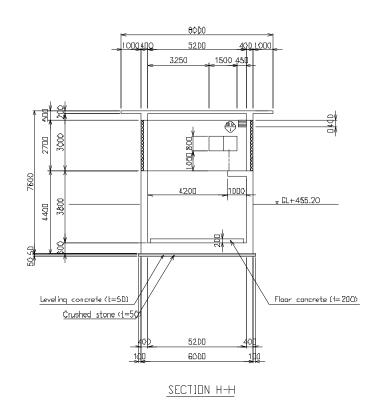
The Project for the Improvement	Ministry of Water Resrources and Irrigation Government of Southern Sudan	Japan Interntational Cooperation Agency (JICA)		Inteke Pump House (1/2)	1/200	Clouding No.s WT	P-005
of Water Supply System of Juba in Southern Sudan	Southern Suden Urban Water Corporation	Tokyo Engineering Consultants, Co., Ltd.	Water Treatment Plant	intere Fump nouse (1/2)	Children Labor Street A3	Mar. 2011	Rev. 1.0

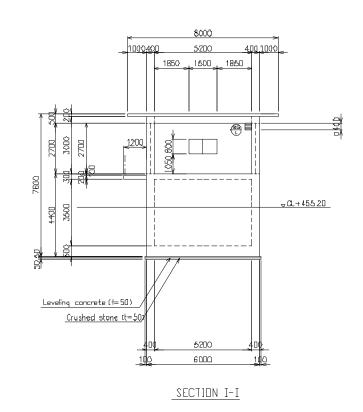


ZECTION F-F

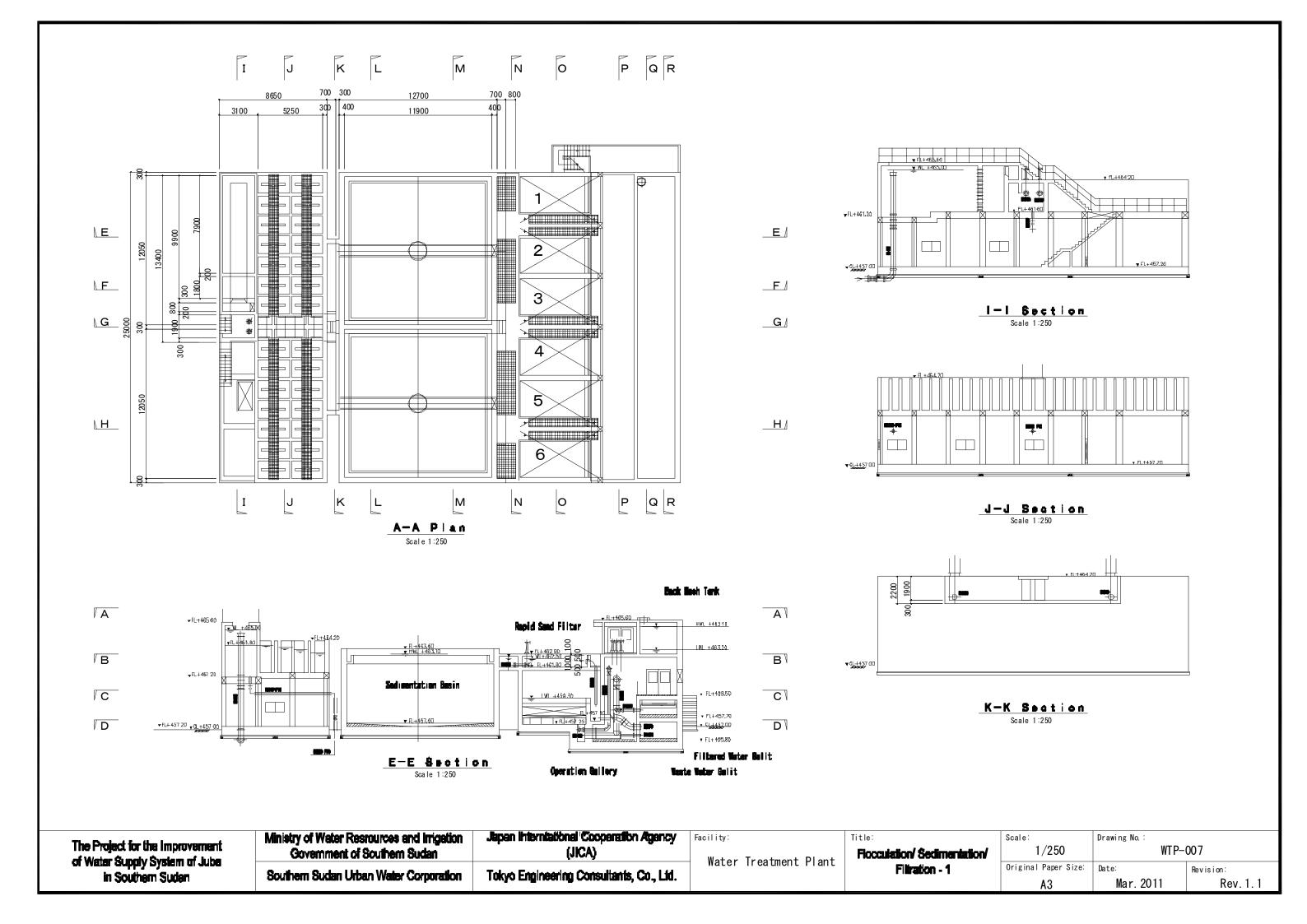


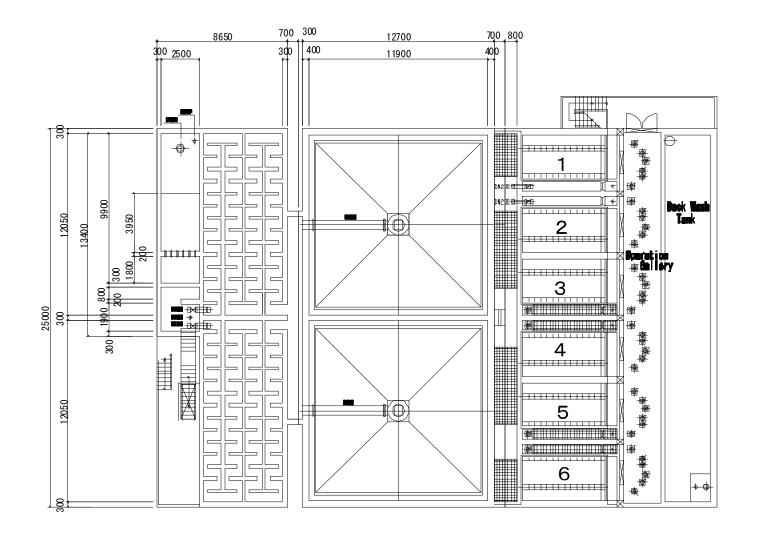
ZECTION G-G



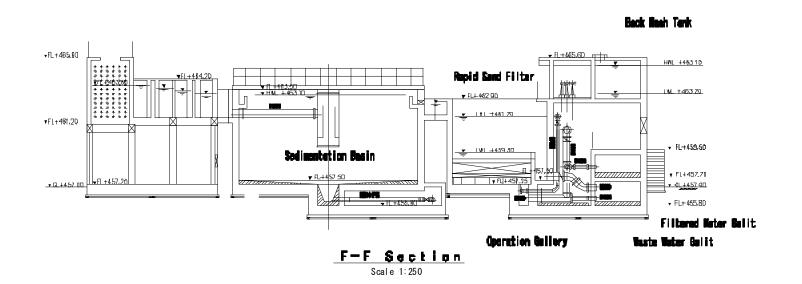


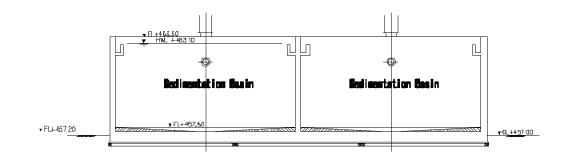
The Project for the Improvement of Water Supply System of Jube in Southern Sudan	Ministry of Water Resrources and Imigation Government of Southern Sudan	Japan Interntational Cooperation Agency (JICA)	Service Reservoir	Intake Pump House (2/2)	1/200	Chessing No.s WT	P-006
	Southern Suden Urban Water Corporation	Tokyo Engineering Consultants, Co., Ltd.			Criphol Poper Street A3	Mar. 2011	Rév. 1.0



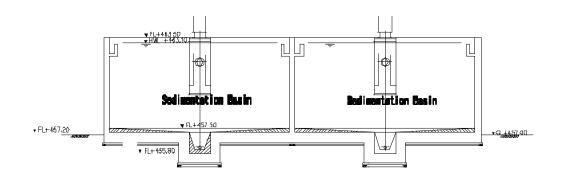


B-B Plan
Scale 1:250



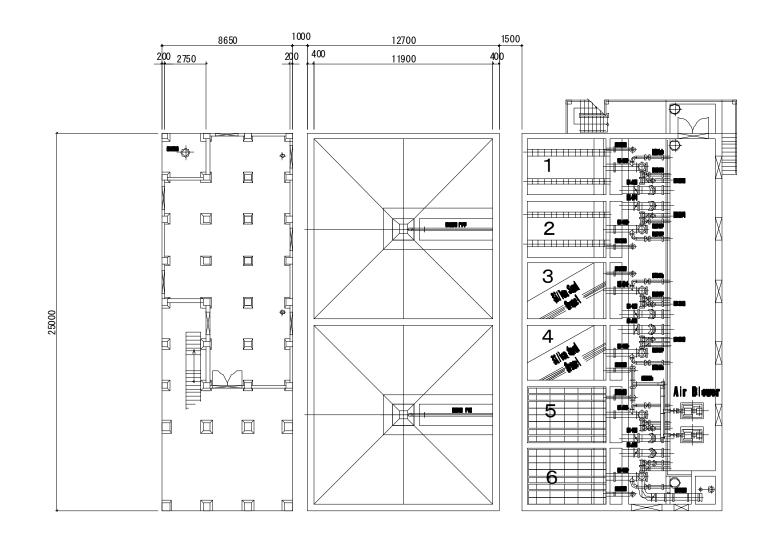


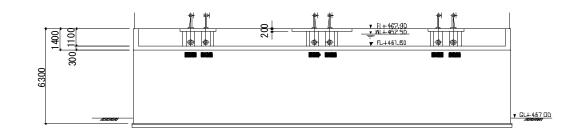
L-L Section



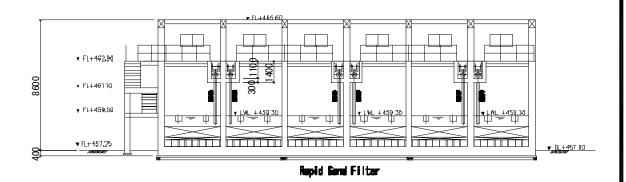
M-M Section
Scale 1:250

of Water Supply System of Jube	Winistry of Water Resrources and Irrigation Government of Southern Sudan	Japan International Cooperation Again cy (JICA)	Facility: Water Treatment Plant	Title: Floculation/ Sedimentation/	Scale: 1/250	Drawing No.: WTP-	008
	Southern Sudan Urban Water Corporation	Tokyo Engineering Consultants, Co., Ltd.	water freathers right	Filtration - 2	Original Paper Size:	Date: Mar. 2011	Revision: Rev. 1.1

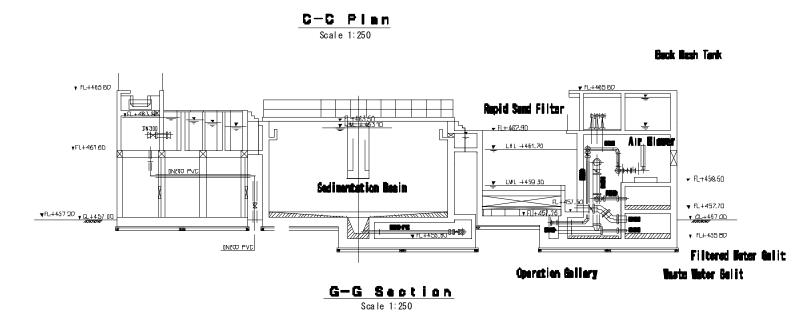




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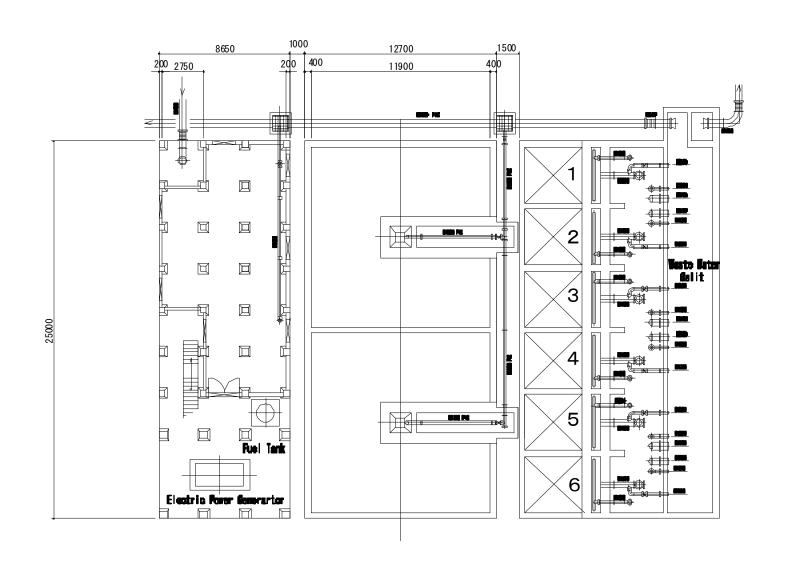


O-O Section



The Project for the Improvement of Water Supply System of Jube in Southern Suden

Ministry of Water Resrources and Irrigation	Japan Interntational Cooperation Agency	Facility:	Title:	Scale:	Drawing No. :	
Government of Southern Sudan	(JICA)	│ ├── Water Treatment Plant	Flocculation/ Sedimentation/	1/250	WTP-0	009
Southern Sudan Urban Water Corporation	Tokyo Engineering Consultants, Co., Ltd.	water freatment Frant	Filtration - 3	Original Paper Size:	Date:	Revision:
Southern Social Orban Waller Corporation	rukyo engineening consultants, co., elu.			A 3	Mar. 2011	Rev. 1.1



Ministry of Water Resrources and Irrigation

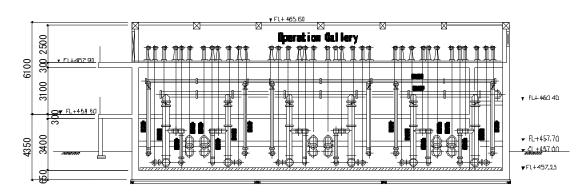
Government of Southern Sudan

Southern Sudan Urban Water Corporation

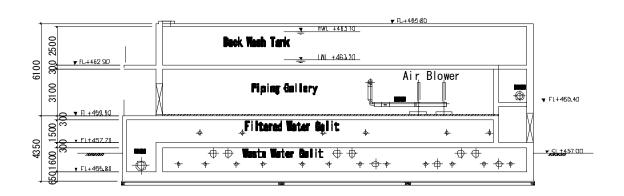
The Project for the Improvement

of Water Supply System of Juba

in Southern Sudan



P-P Section



G-Q Section
Scale 1: 250

Scale:

1/250

Original Paper Size: Date:

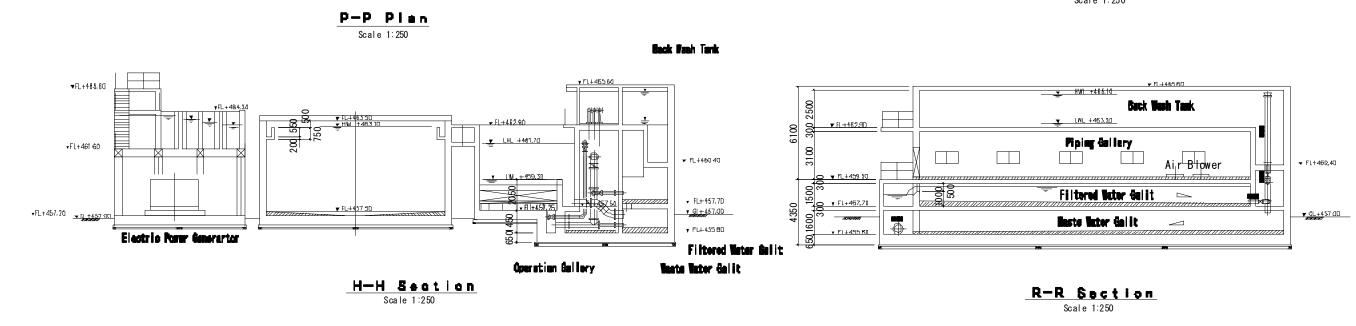
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Mar. 2011

WTP-010

Revision:

Rev. 1.1



Title:

Water Treatment Plant

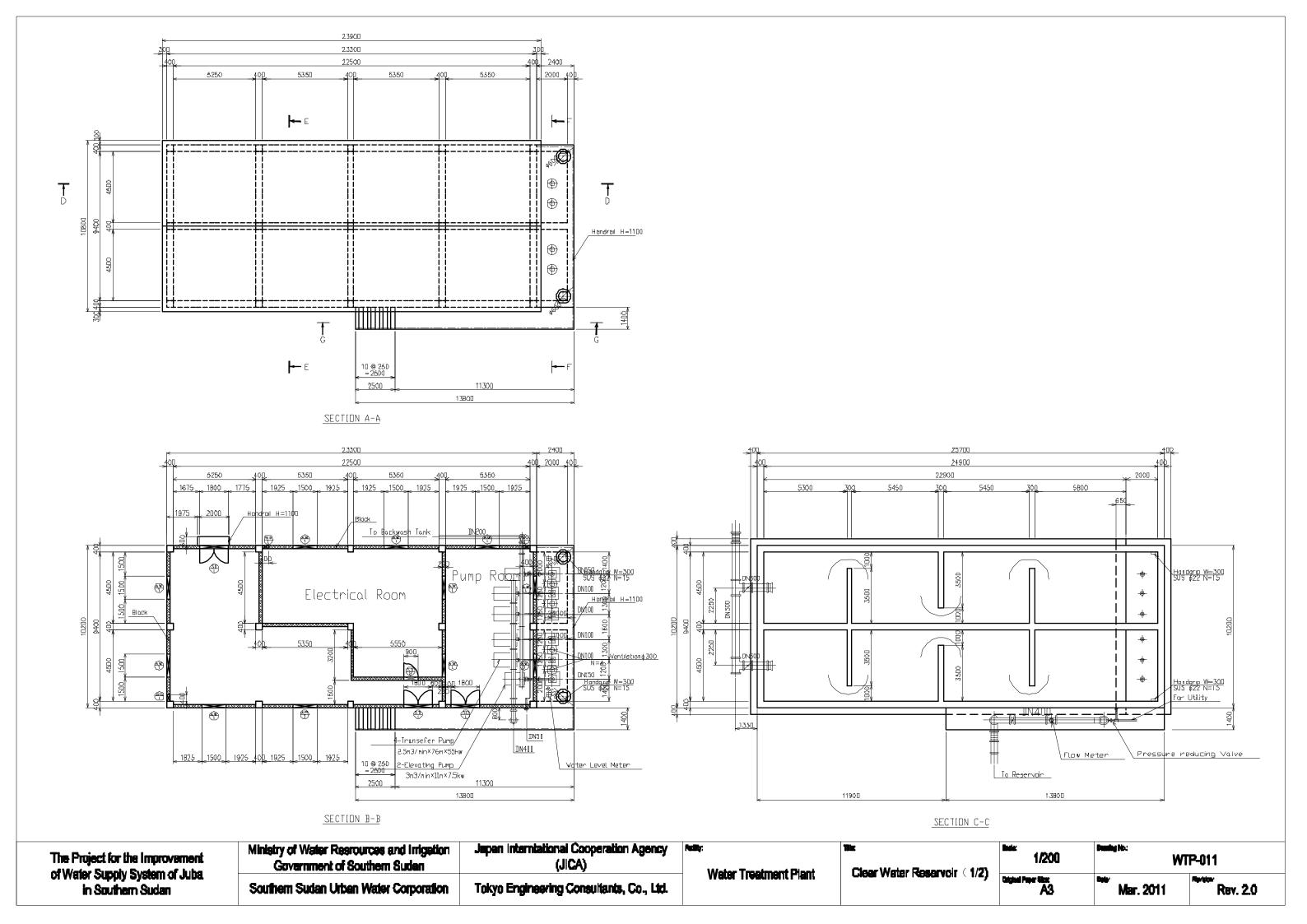
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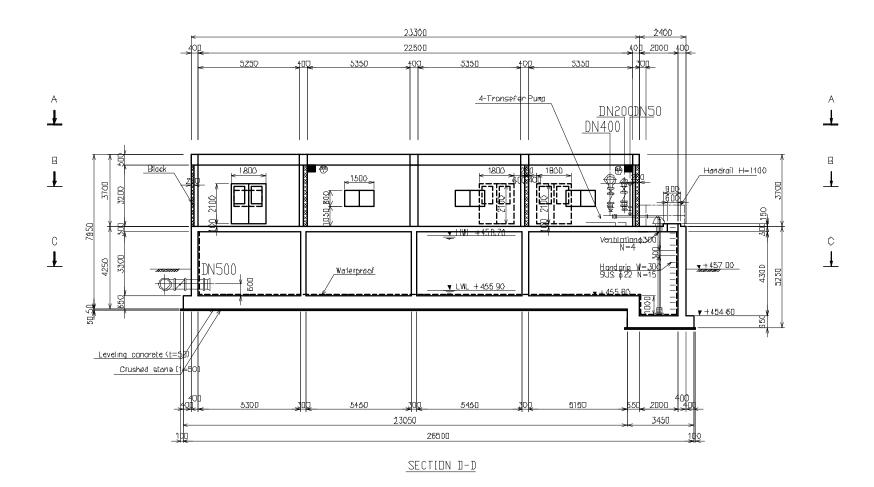
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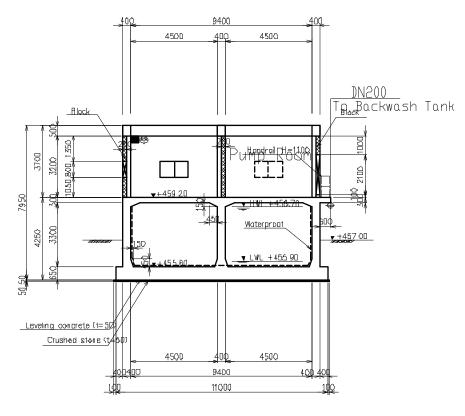
Japan Infleritational Cooperation Agency

(JICA)

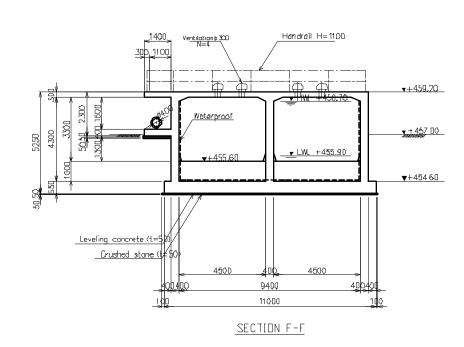
Tokyo Engineering Consultants, Co., Ltd.

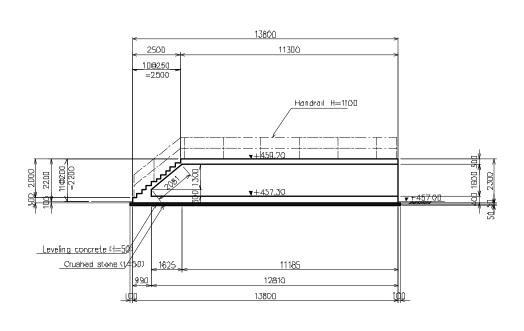






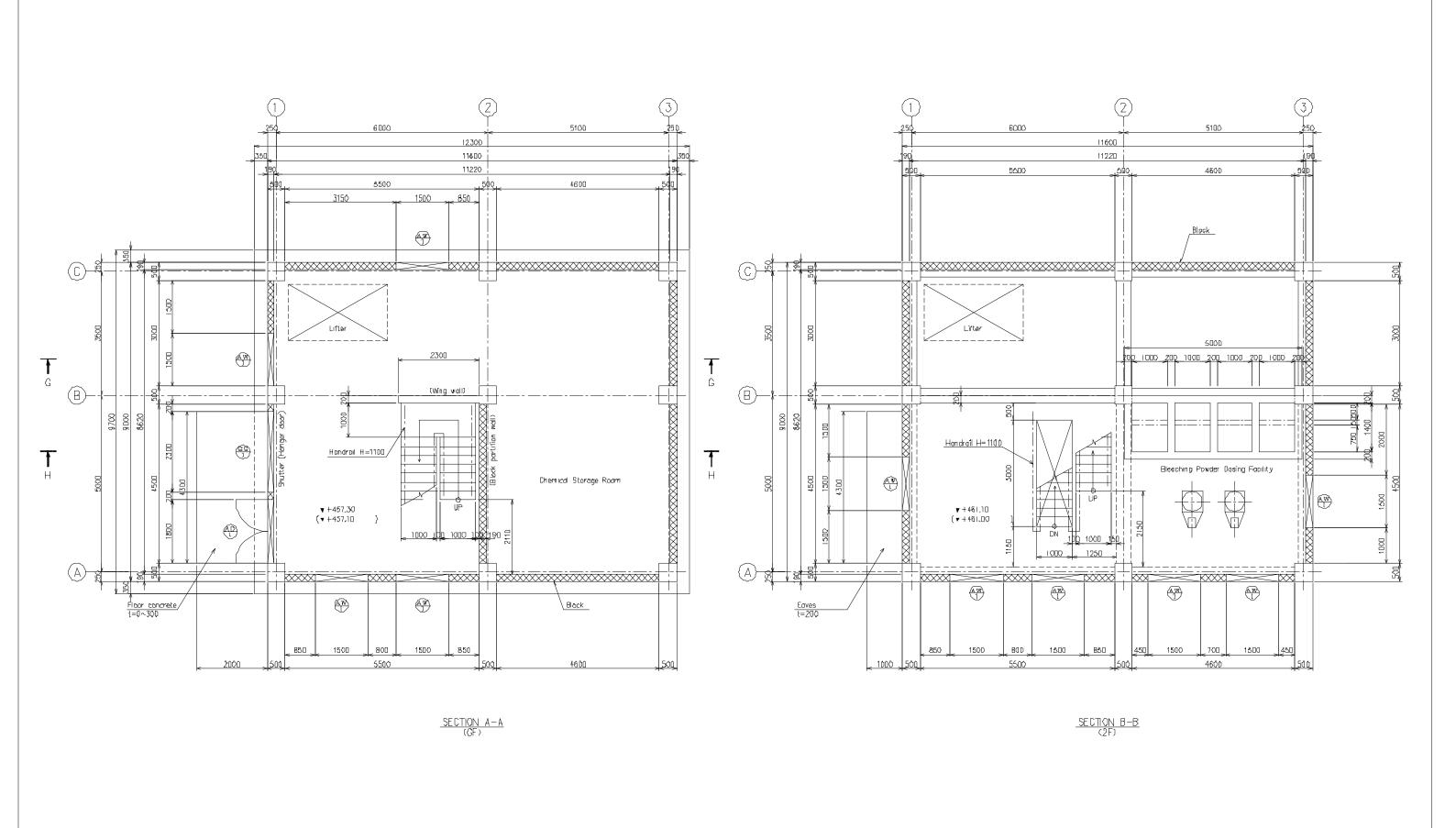
SECTION E-E



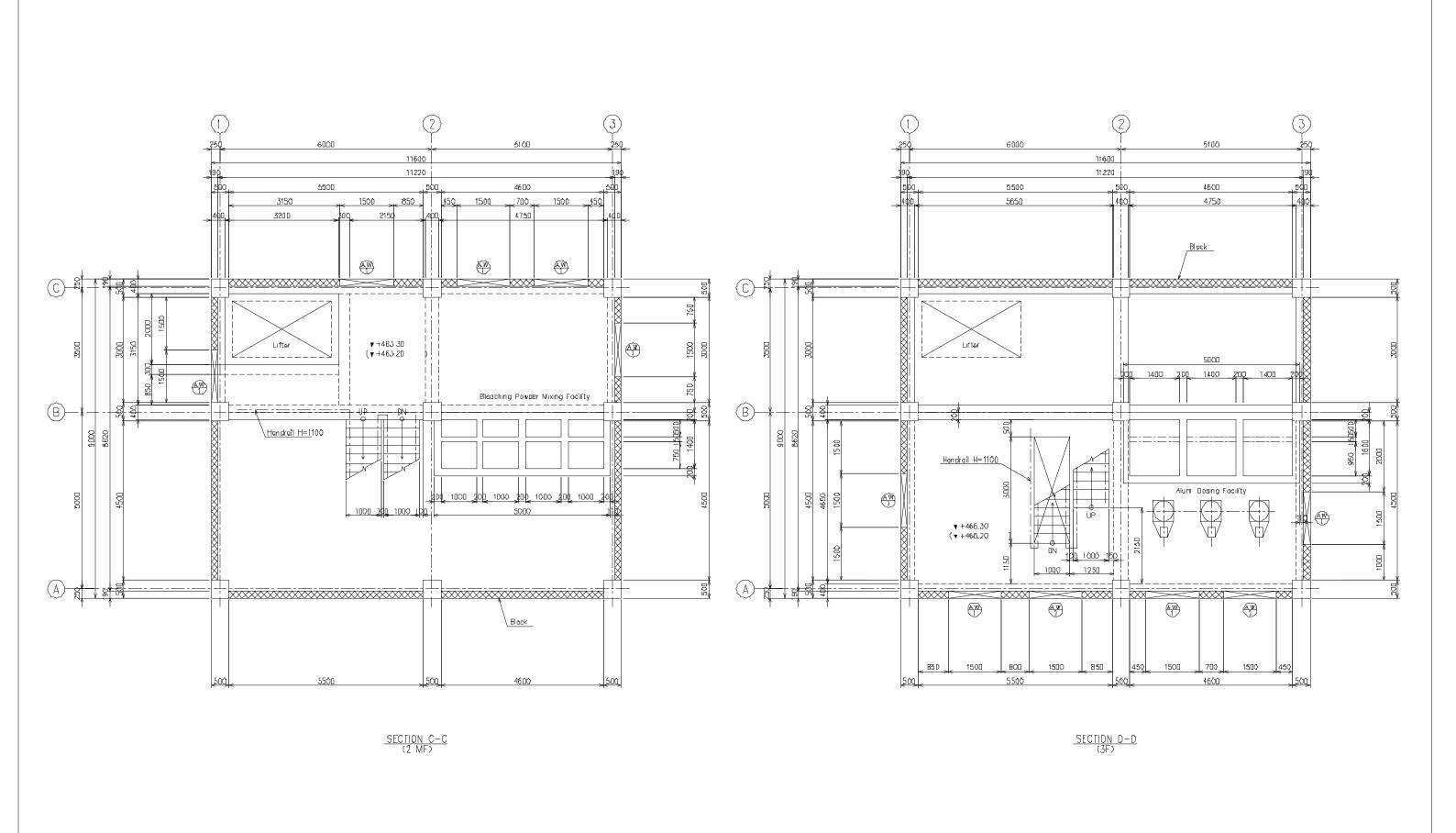


SECTION G-G

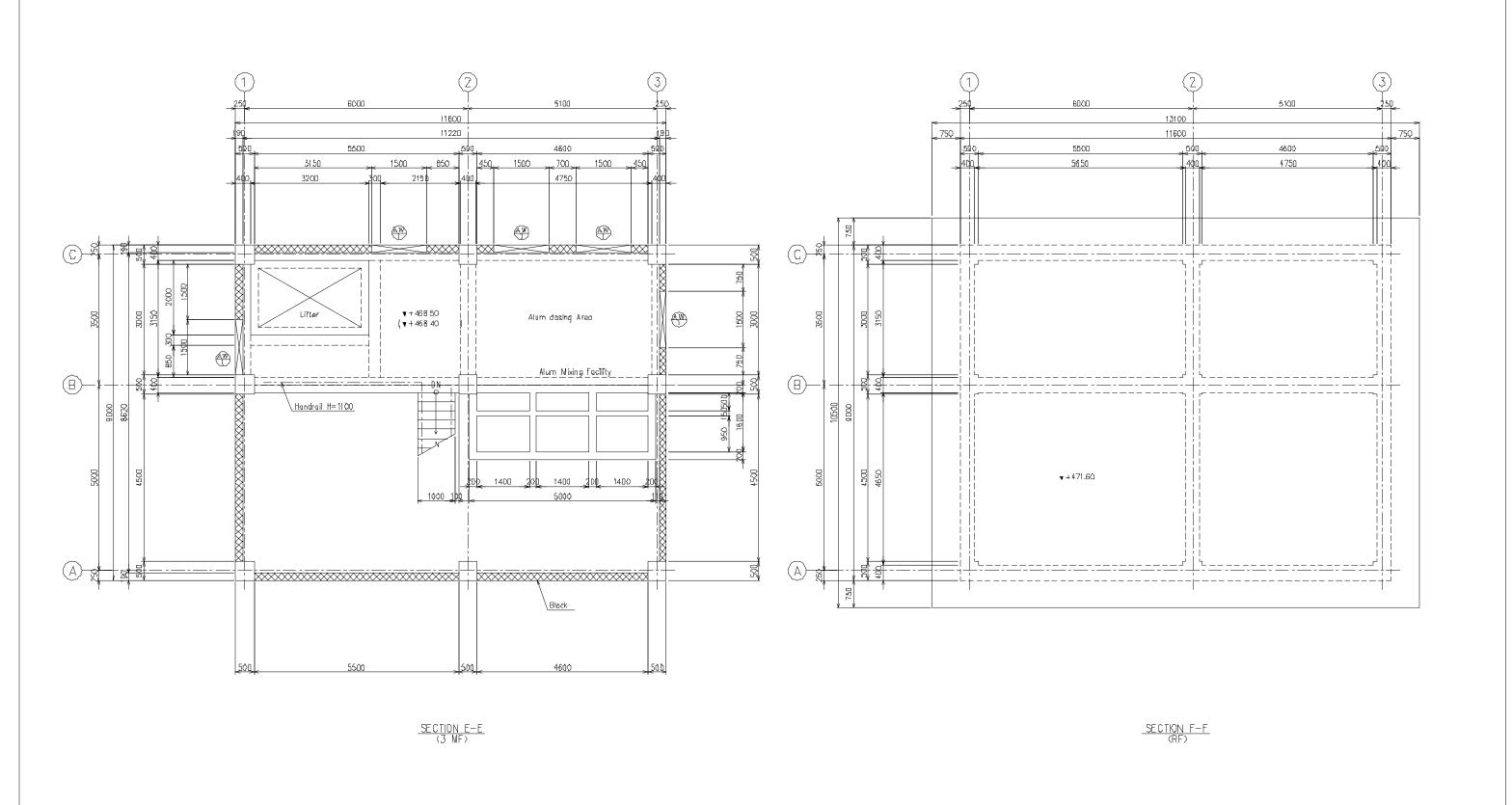
The Project for the Improvement of Water Supply System of Juba. in Southern Sudan	Ministry of Water Resrources and Irrigation Government of Southern Suden	Japan Interntational Cooperation Agency (JICA)	Water Treatment Plant	Clear Water Reservoir (2/2)	1/200	Duning No.: WTP-012	
	Southern Sudan Urban Water Corporation	Tokyo Engineering Consultants, Co., Ltd.			Original Proper State A3	Mar. 2011	Rev. 2.0



The Project for the Improvement of Water Supply System of Juba in Southern Sudan	Ministry of Water Regrources and Imigation Government of Southern Suden	Jepan Interntational Cooperation Agency (JICA)	Water Treatment Plant	Chemical Building (1/4)	1/100	Dumby No: WTP-Q13	
	Southern Sudan Urban Water Corporation	Tokyo Engineering Consultants, Co., Ltd.			Calghal Paper Size: A3	Mar. 2011	Rev. 1.0



The Project for the Improvement of Water Supply System of Juba in Southern Sudan	Ministry of Water Resrources and Irrigetion Government of Southern Sudan	Jupan Internitational Cooperation Agency (JICA)	Water Treatment Plant	Chemical Building (2/4)	1/100	WTP-014
	Southern Sudan Urban Water Corporation	Tokyo Engineering Consultants, Co., Ltd.			Original Paper Store A3	Mar. 2011 Rev. 2.0



The Project for the Improvement of Water Supply System of Juba. in Southern Sudan	Ministry of Water Resrources and Irrigation Government of Southern Suden	Jepan Interntational Cooperation Agency (JICA)	Water Treatment Plant	Chemical Building (3/4)	1/100	Denning No.: WTF	P-015
	Southern Sudan Urban Water Corporation	Tokyo Engineering Consultants, Co., Ltd.			Original Paper Size: A3	Mar. 2011	Rev. 2.0

