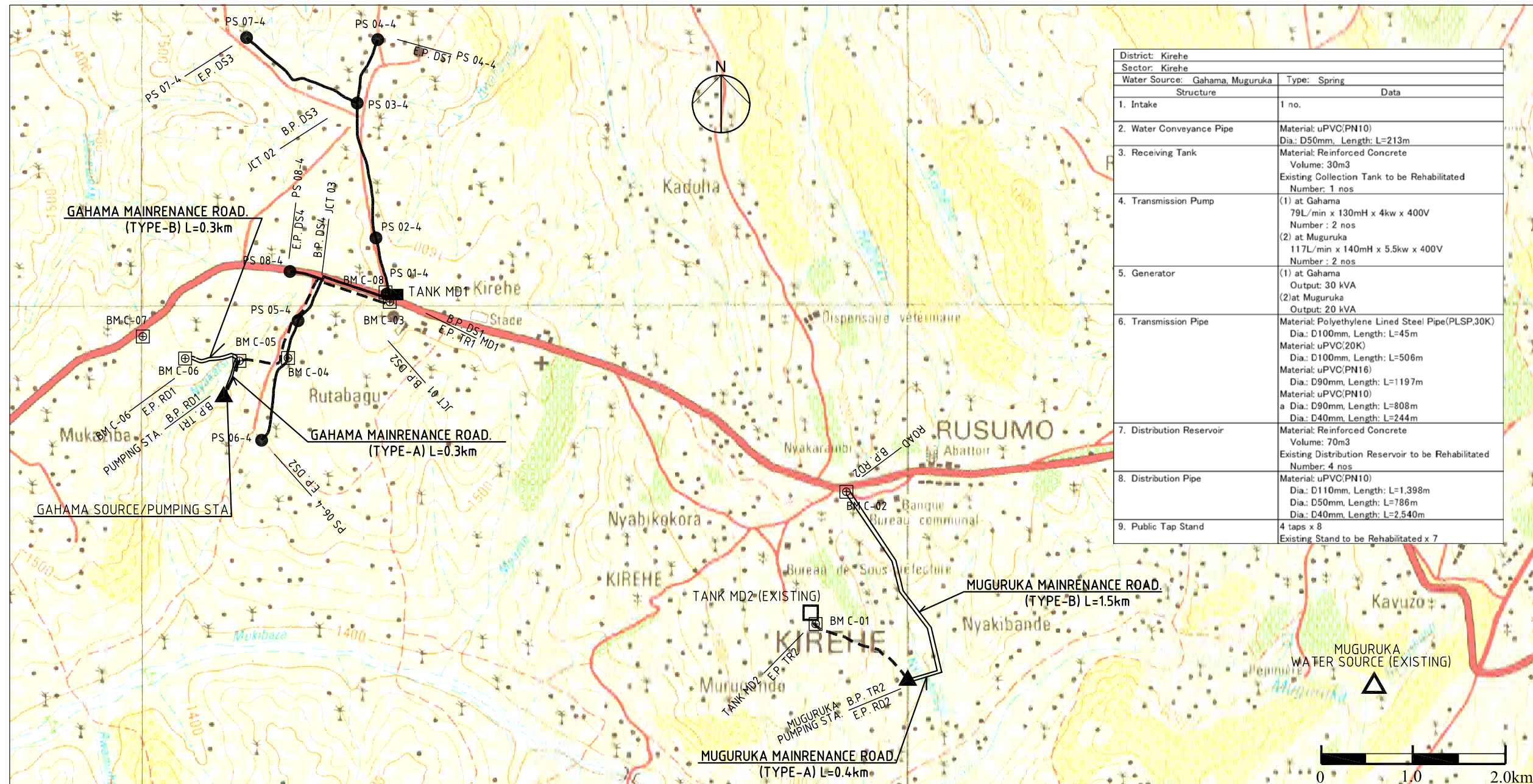


PLATE No.



District: Kirehe	
Sector: Kirehe	
Water Source: Gahama, Muguruka	Type: Spring
Structure	Data
1. Intake	1 no.
2. Water Conveyance Pipe	Material: uPVC/PN10 Dia: D50mm, Length: L=213m
3. Receiving Tank	Material: Reinforced Concrete Volume: 30m3 Existing Collection Tank to be Rehabilitated Number: 1 nos
4. Transmission Pump	(1) at Gahama 79L/min x 130mH x 4kw x 400V Number: 2 nos (2) at Muguruka 117L/min x 140mH x 5.5kw x 400V Number: 2 nos
5. Generator	(1) at Gahama Output: 30 kVA (2) at Muguruka Output: 20 kVA
6. Transmission Pipe	Material: Polyethylene Lined Steel Pipe(PLSP,30K) Dia: D100mm, Length: L=45m Material: uPVC/20K Dia: D100mm, Length: L=506m Material: uPVC/PN16 Dia: D90mm, Length: L=1197m Material: uPVC/PN10 a Dia: D90mm, Length: L=808m Dia: D40mm, Length: L=244m
7. Distribution Reservoir	Material: Reinforced Concrete Volume: 70m3 Existing Distribution Reservoir to be Rehabilitated Number: 4 nos
8. Distribution Pipe	Material: uPVC/PN10 Dia: D110mm, Length: L=1,398m Dia: D50mm, Length: L=786m Dia: D40mm, Length: L=2,540m
9. Public Tap Stand	4 taps x 8 Existing Stand to be Rehabilitated x 7

Pipe Route: Kirehe

PIPE LINE NAME	B.P.	EP.	PIPE DIAMETER / LENGTH
WATER CONVEYANCE PIPE			
CO	GAHAMA W.S.	COLLECTION TANK	DN50, L=213m
TRANSMISSION PIPE			
TR1	PUMPING STA.	TANK MD1	DN100-PLSP/30K, L=45m DN100-uPVC/20K, L=307m DN90-uPVC/PN16, L=838m DN90, L=558m
TR2	PUMPING STA.	TANK MD2	DN100-uPVC/20K, L=199m DN90-uPVC/PN16, L=359m DN90, L=250m
TR3	JCT01	TANK MD1	DN40 L=244m
DISTRIBUTION PIPE			
DS1	JCT01	PS04-4	DN110 L=1,398m DN50 L=273m DN40 L=188m
DS2	JCT02	PS06-4	DN50 L=513m DN40 L=1,212m
DS3	JCT02	PS07-4	DN40 L=910m
DS4	JCT03	PS08-4	DN40 L=230m

(Pipe class is uPVC PN10 unless otherwise mentioned)

BENCH MARK

NO.	ZONE	EASTING (m)	NORTHING (m)	ELEVATION (m:Gatore Local)
BM C-01	36M	240,799.99	9,747,511.93	1650.87
BM C-02	36M	241,000.25	9,748,372.74	1620.88
BM C-03	36M	238,026.52	9,749,609.26	1603.83
BM C-04	36M	237,363.70	9,749,243.79	1566.57
BM C-05	36M	237,046.93	9,749,225.29	1504.06
BM C-06	36M	236,693.68	9,749,240.55	1547.49
BM C-07	36M	236,417.70	9,749,383.92	1542.87
BM C-08	36M	238,027.84	9,749,632.93	1604.45
BM C-09	36M	236,925.47	9,749,251.83	1518.65

Note: Ellipsoid: WGS1984

PUBLIC STAND

NO.	No. of TAPs	ZONE	EASTING (m)	NORTHING (m)	ELEVATION (m:AMSL)
1	4	36M	238,026	9,749,629	1604
2	4	36M	237,936	9,750,026	1598
3	4	36M	237,814	9,750,904	1587
4	4	36M	237,948	9,751,317	1592
5	4	36M	237,429	9,749,487	1571
6	4	36M	237,192	9,748,708	1540
7	4	36M	237,094	9,751,330	1567
8	4	36M	237,376	9,749,807	1577

Note: Coordinates are indicating the points of branch on main pipe.

LEGEND

- DISTRIBUTION PIPE
- TRANSMISSION PIPE
- WATER SOURCE/PUMP HOUSE
- PUBLIC STAND
- DISTRIBUTION TANK
- MAINTENANCE ROAD
- BENCH MARK

DRAWING ISSUED FOR TENDER PURPOSES ONLY

PROJECT NAME IMPLEMENTATION REVIEW STUDY ON THE PROJECT FOR RURAL WATER SUPPLY			
CLIENT MINISTRY OF INFRASTRUCTURE RWANDA		JAPAN INTERNATIONAL COOPERATION AGENCY	
TITLE KIREHE WATER SUPPLY SCHEME		GENERAL PLAN OF KIREHE SCHEME	
DATE March 2010	SCALE 1:30000	APPROVE	DESIGN
			DRAWING NO. KR_GN_010

Figure 2-5 General Layout Map of Kirehe Site