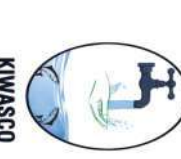

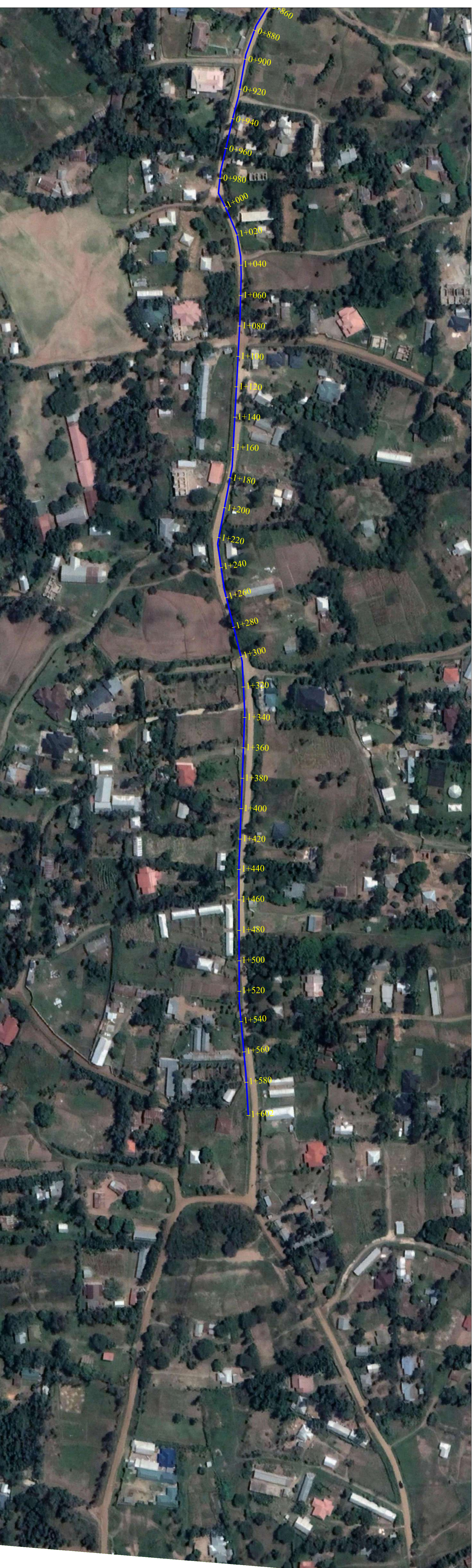


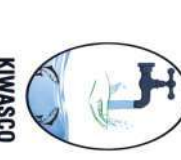

REVISION NO	DATE	AS BUILT DRAWING	SUPERVISED BY:	CONTRACTOR:	PROJECT TITLE	EMPLOYER	FUNDED BY
		DRAWN BY: GIS-A	PLANNING DESIGN & CONSTRUCTION ENGINEER- KIWASCO		PACKAGE 4 CONSTRUCTION OF SKM HDPE GUBA PIPE NETWORK	 KISUMU WATER & SANITATION COMPANY LTD.	 WATER SECTOR TRUST FUND (WATERFUND)
		DATE: June-2023			DRAWING TITLE		
		APPROVED BY: PDCE			PLAN AND VERTICAL PROFILE DRAWING-GUBA LINE		
		SCALE: 1:1000					
		SHEET NO: 1/2					
		DRAWING NO: WN/GUBA/001					

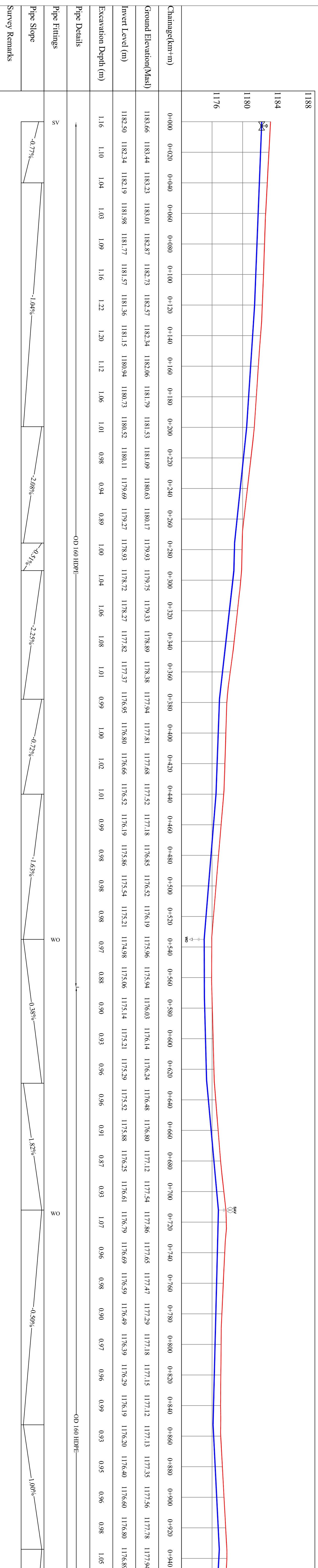
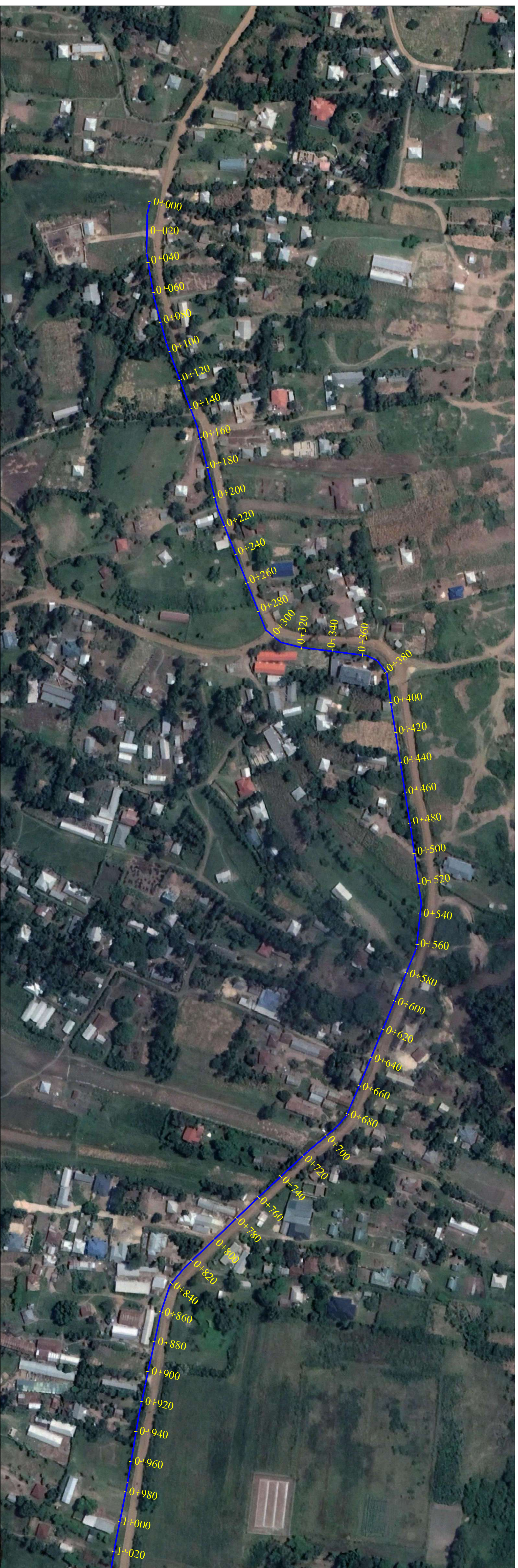
Survey Remarks

Chainage(km+m)	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940																																																																																																																																																																																																																																
Ground Elevation(Mast)	1190.44	1190.75	1191.32	1191.84	1192.15	1192.25	1192.33	1192.78	1193.37	1193.95	1194.59	1195.40	1196.06	1196.67	1197.16	1197.30	1197.12	1196.92	1196.57	1196.25	1195.88	1195.34	1194.93	1194.56	1194.17	1193.75	1193.35	1192.92	1192.49	1192.14	1191.95	1191.85	1191.80	1191.77	1191.68	1191.50	1191.24	1190.84	1190.67	1190.47	1190.05	1189.63	1189.21	1188.75	1188.33	1188.07	1187.83	1187.58																																																																																																																																																																																																																																
Invert Level (m)	1189.44	1189.91	1190.37	1190.84	1191.16	1191.27	1191.39	1191.80	1192.44	1193.08	1193.56	1194.00	1194.64	1195.11	1195.29	1195.01	1195.73	1195.44	1195.16	1194.87	1194.46	1194.04	1193.63	1193.21	1192.80	1192.38	1191.97	1191.55	1191.14	1191.01	1190.88	1190.75	1190.62	1190.50	1190.37	1190.24	1189.98	1189.73	1189.47	1189.06	1188.66	1188.25	1187.85	1187.44	1187.07	1186.84	1186.62																																																																																																																																																																																																																																	
Excavation Depth (m)	1.01	0.84	0.95	1.00	1.00	0.98	0.94	0.98	0.93	0.87	0.87	1.04	1.06	1.03	1.05	1.00	1.11	1.19	1.12	1.09	1.00	0.88	0.89	0.94	0.96	0.96	0.95	0.94	1.00	0.94	0.97	1.05	1.14	1.18	1.13	1.00	0.86	0.94	1.00	0.99	0.97	0.96	0.90	0.88	1.00	0.99	0.96																																																																																																																																																																																																																																	
Pipe Details	OD 160 HDPE																																																																																																																																																																																																																																																																															
Pipe Fittings	S																																																																																																																																																																																																																																																																															
Pipe Slope	2.34%																0.57%																2.34%																3.20%																0.57%																0.90%																3.20%																-1.42%																0.90%																-1.42%																0.88%																-2.08%																-0.64%																-1.28%																-0.64%																-2.03%																-1.28%															



Chainage(km+mm)	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440	1+460	1+480	1+500	1+520	1+540	1+560	1+580	1+600		
Ground Elevation(Masl)	1187.58	1187.34	1187.10	1186.95	1186.86	1186.69	1186.49	1186.37	1186.27	1186.20	1186.09	1185.98	1185.87	1185.75	1185.59	1185.52	1185.41	1185.28	1185.14	1184.96	1184.77	1184.39	1183.97	1183.55	1183.12	1182.72	1182.39	1181.96	1181.54	1181.15	1180.88	1180.67	1180.45	1180.24		
Invert Level (m)	1186.62	1186.40	1186.17	1185.95	1185.83	1185.71	1185.59	1185.47	1185.35	1185.23	1185.11	1184.98	1184.84	1184.71	1184.57	1184.44	1184.30	1184.17	1184.04	1183.90	1183.76	1183.40	1182.99	1182.59	1182.18	1181.77	1181.36	1180.96	1180.55	1180.14	1179.86	1179.64	1179.42	1179.21		
Excavation Depth (m)	0.96	0.94	0.92	1.00	1.03	0.98	0.90	0.90	0.92	0.96	0.97	1.00	1.03	1.05	1.02	1.08	1.11	1.11	1.10	1.06	1.01	0.99	0.98	0.96	0.94	0.94	1.02	1.01	0.99	1.00	1.02	1.03	1.03			
Pipe Details	OD 110 HDPE																																			
Pipe Fittings	WO																																			
Pipe Slope	-1.12% -2.03% -1.12% -0.60% -0.60% -0.71% -0.71% -2.02% -1.8%																																			
Survey Remarks																																				

REVISION NO	DATE	AS BUILT DRAWING	SUPERVISED BY:	CONTRACTOR:	PROJECT TITLE	EMPLOYER	FUNDED BY
		DRAWN BY: GIS-A APPROVED BY: PDCE SHEET NO: 2/2	DATE: June-2023 SCALE: 1:1000 DRAWING NO: WN/GUBA/002	PLANNING DESIGN & CONSTRUCTION ENGINEER- KIWASCO	PACKAGE 4. CONSTRUCTION OF 5 KM HDPE GUBA PIPE NETWORK DRAWING TITLE PLAN AND VERTICAL PROFILE DRAWING-GUBA LINE	 KISUMU WATER & SANITATION COMPANY LTD.	 WATER SECTOR TRUST FUND (WATERFUND)



Revision No	Date	AS BUILT DRAWING	Supervised By:	Contractor:	Project Title	Employer	Funded By
		DRAWN BY: GIS-A	PLANNING DESIGN & CONSTRUCTION ENGINEER- KIWASCO		PACKAGE 4- CONSTRUCTION OF 5KM HDPE GUBA LINES	KISUMU WATER & SANITATION COMPANY LTD.	WaterFund WATER SECTOR TRUST FUND (WATERFUND)
		APPROVED BY: PDCE			DRAWING TITLE		
		SHEET NO: 1/2			PLAN AND VERTICAL PROFILE DRAWING-L4		
		DRAWING NO: WN/GUBA/006					



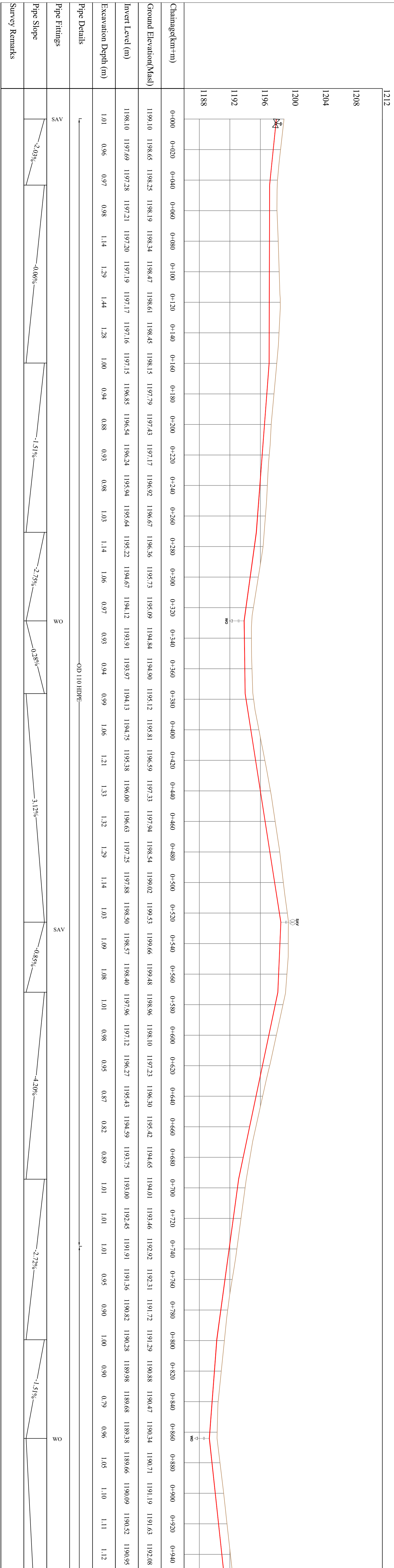
Chainage(km+m)	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260	1+280	1+300	
Ground Elevation(Masl)	1177.94	1177.73	1177.52	1177.31	1177.11	1176.89	1176.68	1176.47	1176.26	1176.04	1176.00	1176.01	1176.02	1176.06	1176.20	1176.13	1176.00	1175.85	1175.68	
Invert Level (m)	1.05	1.00	0.96	0.92	0.88	0.93	0.98	0.93	0.94	0.92	0.97	0.97	0.98	0.91	1.15	1.17	1.14	1.07		
Excavation Depth (m)																				
Pipe Details	OD 160 HDPE																			
Pipe Fittings																				
Pipe Slope	-0.83%																			
Survey Remarks																				

REVISION NO	DATE	AS BUILT DRAWING	SUPERVISED BY:	CONTRACTOR:
		DRAWN BY: GIS-A APPROVED BY: PDCE SHEET NO: 2/2	DATE: June-2023 SCALE: 1:1250 DRAWING NO: WN/GUBA/007	PLANNING DESIGN & CONSTRUCTION ENGINEER- KIWASCO

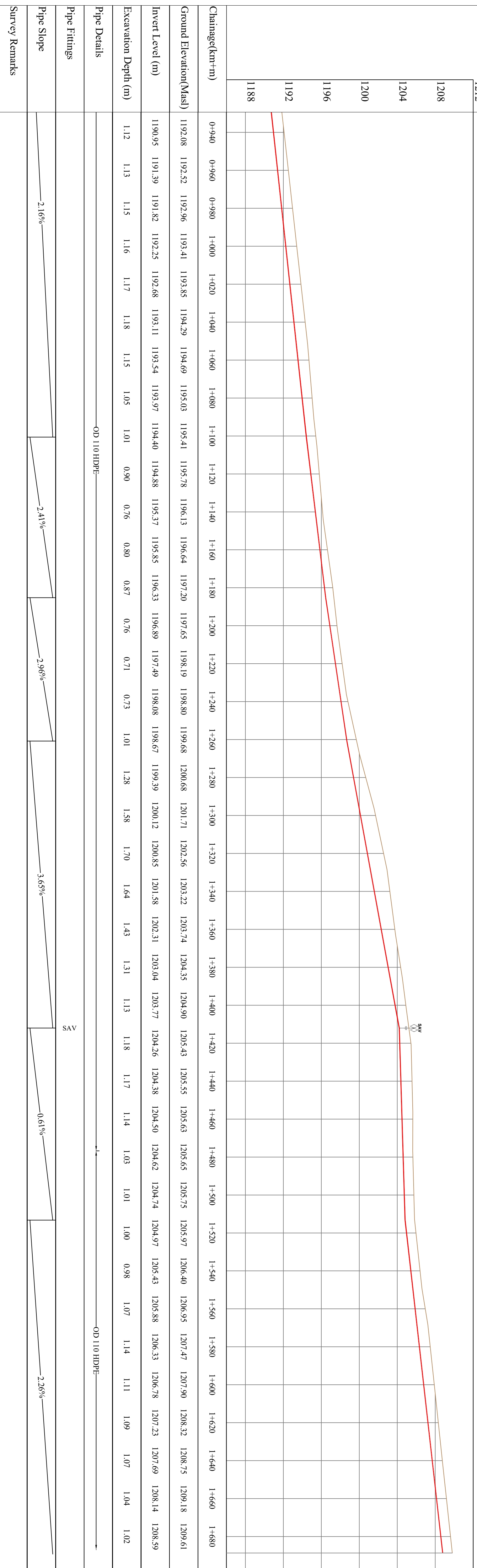
PROJECT TITLE	PACKAGE 4- CONSTRUCTION OF 5KM HDPE GUBA LINES
DRAWING TITLE	PLAN AND VERTICAL PROFILE DRAWING-L4

EMPLOYER	 KISUMU WATER & SANITATION COMPANY LTD.
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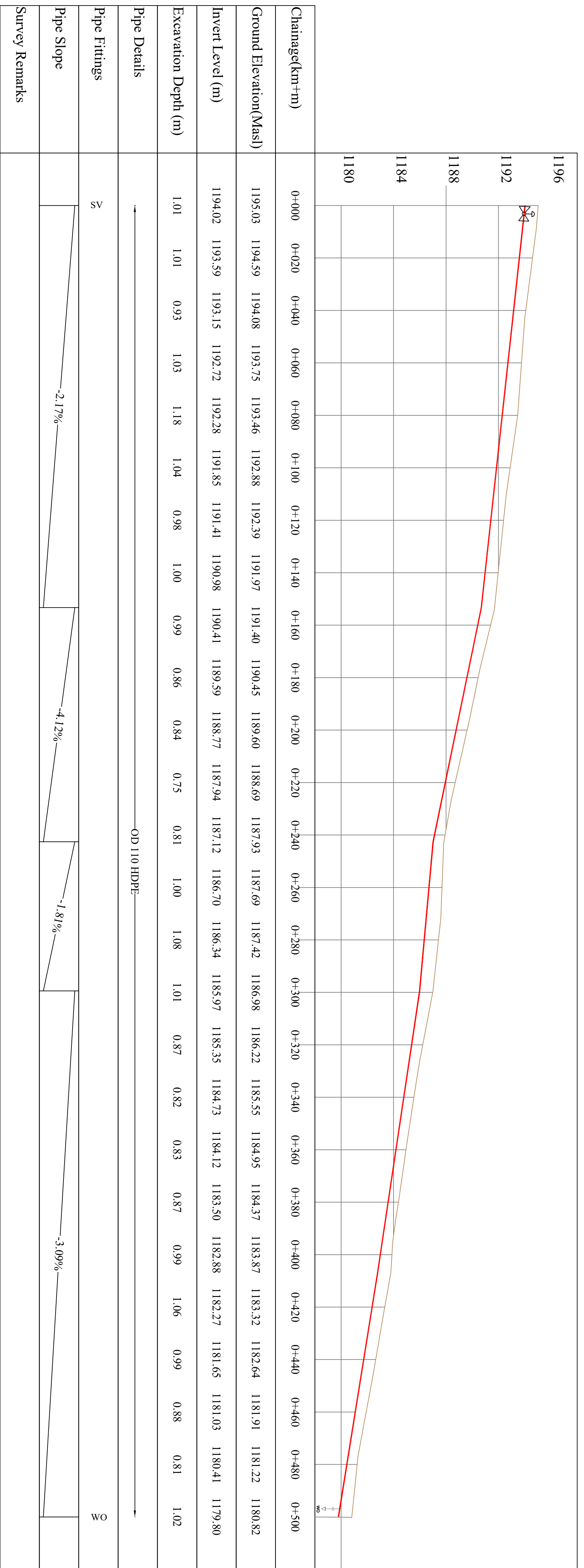
FUNDED BY	 WATER SECTOR TRUST FUND (WATERFUND)
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Chainage(km+m)	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060																																														
Ground Elevation(Masl)	1191.10	1198.65	1198.25	1198.19	1198.34	1198.47	1198.61	1198.45	1198.15	1197.79	1197.43	1197.17	1196.92	1196.67	1196.36	1195.73	1195.09	1194.84	1194.90	1195.12	1195.81	1196.59	1197.33	1197.94	1198.54	1199.02	1199.53	1199.66	1199.48	1198.96	1198.10	1197.23	1196.30	1195.42	1194.65	1194.01	1193.46	1192.92	1192.31	1191.72	1191.29	1190.88	1190.47	1190.34	1190.71	1191.19	1191.63	1192.08																																																				
Invert Level (m)	1198.10	1197.69	1197.28	1197.21	1197.20	1197.19	1197.17	1197.16	1197.15	1196.85	1196.54	1196.24	1195.94	1195.64	1195.22	1194.67	1194.12	1193.91	1193.91	1194.13	1194.75	1195.38	1196.00	1196.63	1197.25	1197.88	1198.50	1198.57	1198.40	1197.96	1197.12	1196.27	1195.43	1194.59	1193.75	1193.00	1192.45	1191.91	1191.36	1190.82	1190.28	1189.96	1189.68	1189.38	1189.66	1190.09	1190.52	1190.95																																																				
Excavation Depth (m)	1.01	0.96	0.97	0.98	1.14	1.29	1.44	1.28	1.00	0.94	0.88	0.93	0.98	1.03	1.14	1.06	0.97	0.93	0.94	0.99	1.06	1.21	1.33	1.32	1.29	1.14	1.03	1.09	1.08	1.01	0.98	0.95	0.87	0.82	0.89	1.01	1.01	0.95	0.90	1.00	0.90	0.79	0.96	1.05	1.10	1.11	1.10	1.12																																																				
Pipe Details	OD 110 HDPE																																																																																																			
Pipe Fittings	SA																																																																																																			
Pipe Slope	-2.03%										-0.06%										-1.51%										-2.75%										0.25%										-3.12%										-0.83%										-4.20%										-2.72%										-1.51%									
Survey Remarks																																																																																																				
REVISION NO	DATE	AS BUILT DRAWING	SUPERVISED BY:	CONTRACTOR:	PROJECT TITLE	EMPLOYER	FUNDED BY																																																																																													
		DRAWN BY: GIS-A APPROVED BY: PDCE SHEET NO: 1/2	DATE: June-2023 SCALE: 1:1250 DRAWING NO: WNKSRF/001	PLANNING DESIGN & CONSTRUCTION ENGINEER- KIWASCO	PACKAGE 4 CONSTRUCTION OF SKM HDPE GUBA PIPE NETWORK DRAWING TITLE PLAN AND VERTICAL PROFILE DRAWING-KESREF LINE	KISUMU WATER & SANITATION COMPANY LTD.	WATER SECTOR TRUST FUND (WATERFUND)																																																																																													



REVISION NO	DATE	AS BUILT DRAWING	SUPERVISED BY:	CONTRACTOR:	PROJECT TITLE	EMPLOYER	FUNDED BY
		DRAWN BY: GIS-A APPROVED BY: PDCE SHEET NO: 2/2	DATE: June-2023 SCALE: 1:1250 DRAWING NO: WN/KSRP/002	PLANNING DESIGN & CONSTRUCTION ENGINEER- KIWASCO	PACKAGE 4- CONSTRUCTION OF SKM HDPE GUBA PIPE NETWORK DRAWING TITLE PLAN AND VERTICAL PROFILE DRAWING-KESREF LINE	KISUMU WATER & SANITATION COMPANY LTD.	WaterFund WATER SECTOR TRUST FUND (WATERFUND)



REVISION NO	DATE	AS BUILT DRAWING	SUPERVISED BY:	CONTRACTOR:	PROJECT TITLE	EMPLOYER	FUNDED BY
		DRAWN BY: GIS-A	PLANNING DESIGN & CONSTRUCTION ENGINEER- KIWASCO		PACKAGE 4- CONSTRUCTION OF SKM HDPE GUBA PIPE NETWORKS	 KISUMU WATER & SANITATION COMPANY LTD.	 WATER SECTOR TRUST FUND (WATERFUND)
		DATE: June-2023			DRAWING TITLE		
		APPROVED BY: PDCE			PLAN AND VERTICAL PROFILE DRAWING-L2		
		SCALE: 1:1000					
		SHEET NO: 1/1					
		DRAWING NO: WN/KMLR/006					