



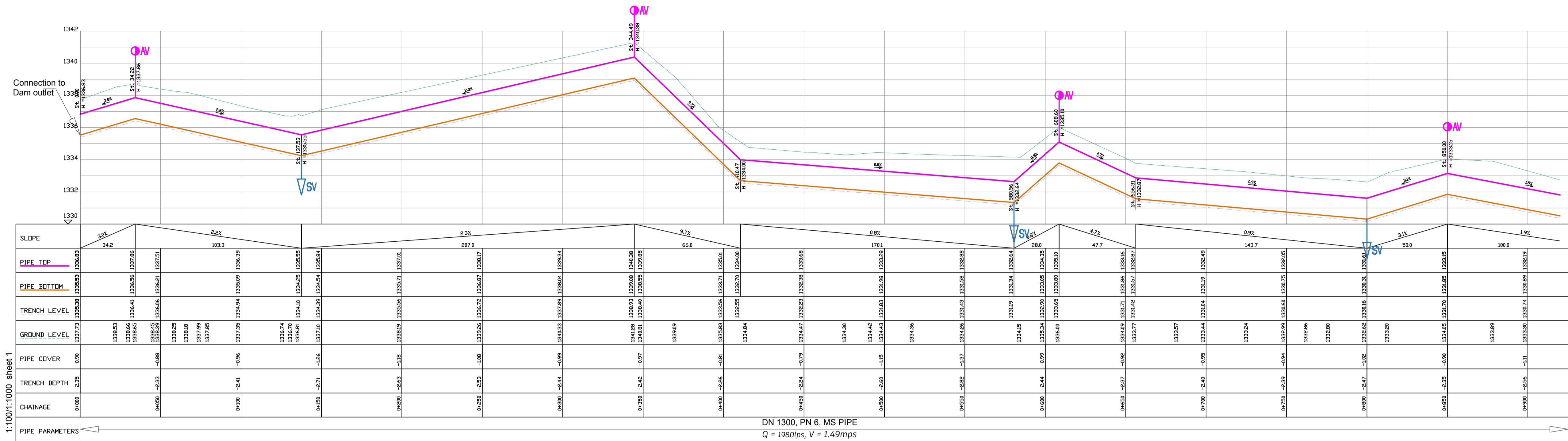
**GOVERNMENT OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

KABUYANDA IRRIGATION SCHEME

DESIGN REVIEW DRAWINGS

APRIL 2022

**PLAN AND PROFILES:-
PRIMARY MAIN PIPES**

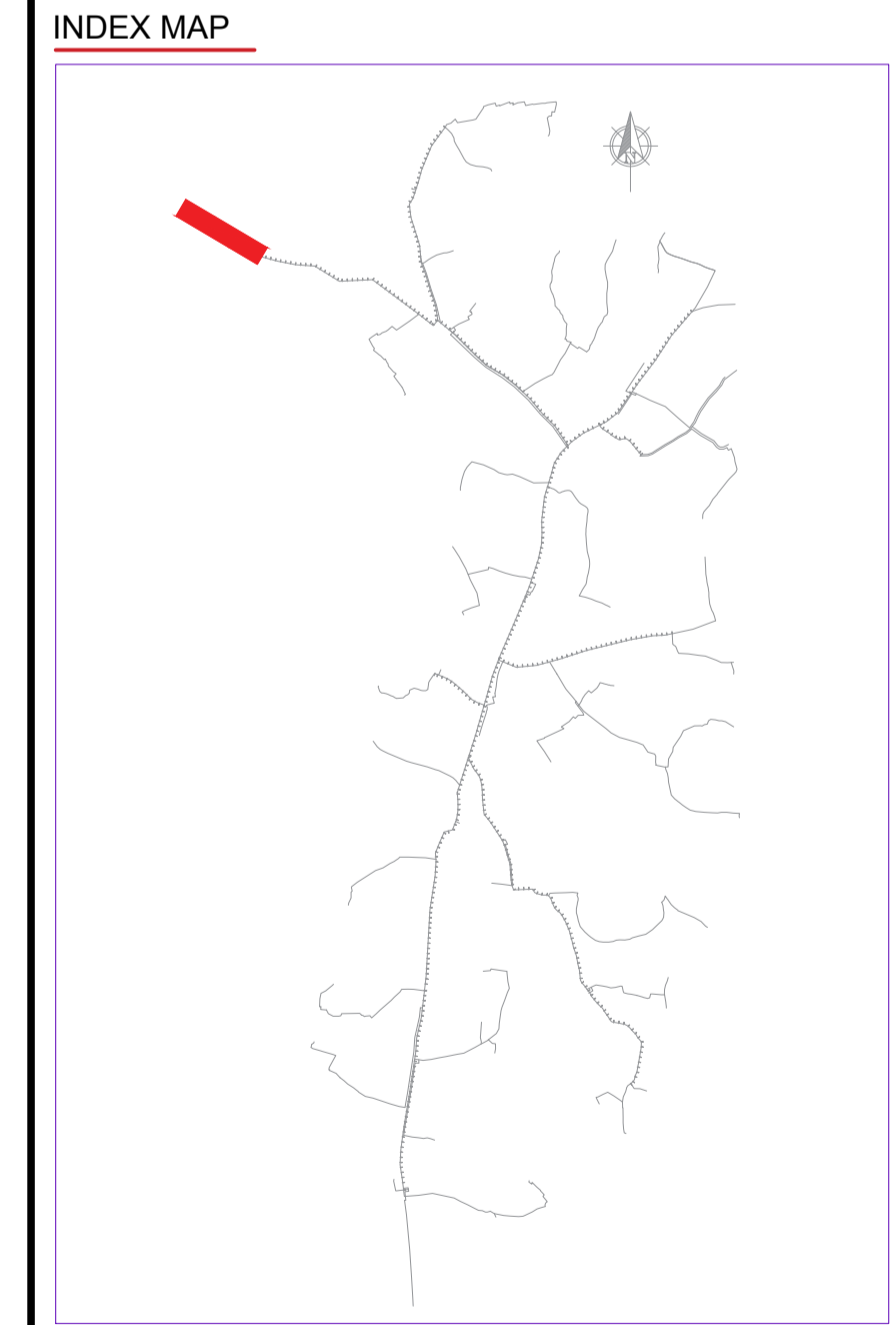
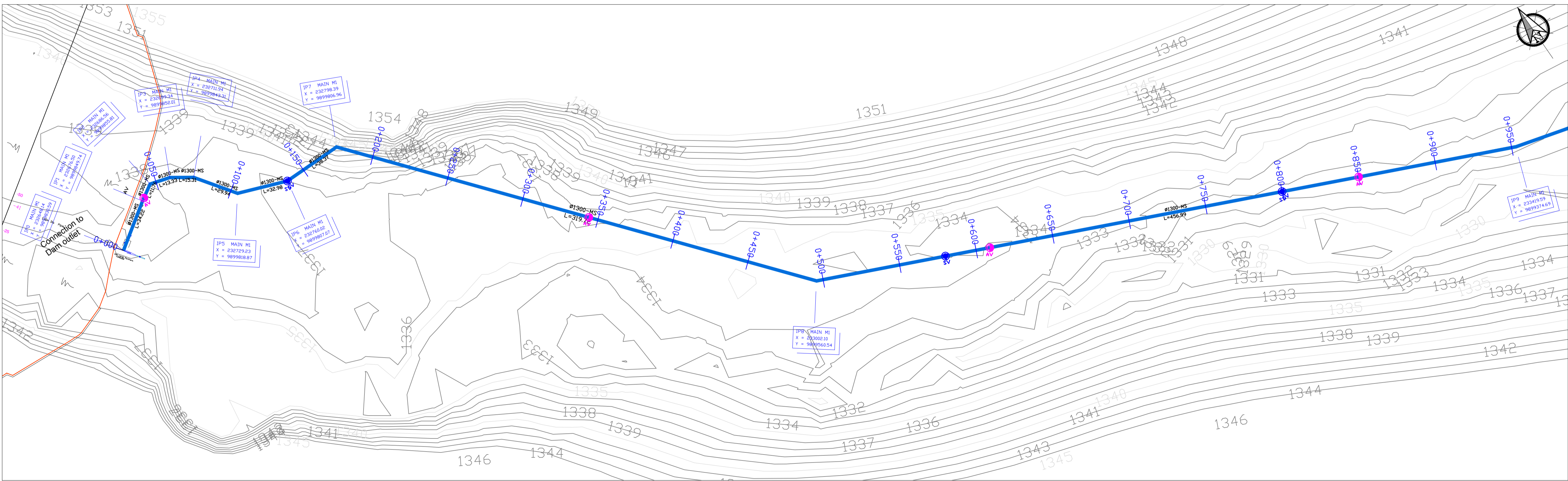


1:100/1:1000 sheet 1
 PRIMARY MAIN M1
 DN 1300, PN 6, MS PIPE
 Q = 1980lps, V = 1.49mps

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- Stream Crossing
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR J. DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
 - REFER TO AUXILIARY WORKS DRAWINGS FOR ANCHORAGE TO PIPELINES, AIR VALVES DETAILS, PIPE PEDESTALS, PULLEY SUPPORT, TRENCH DETAILS, VALVE CHAMBERS, WASHOUT CHAMBERS AND WATER METERS.
 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
 Vertical 1 : 100

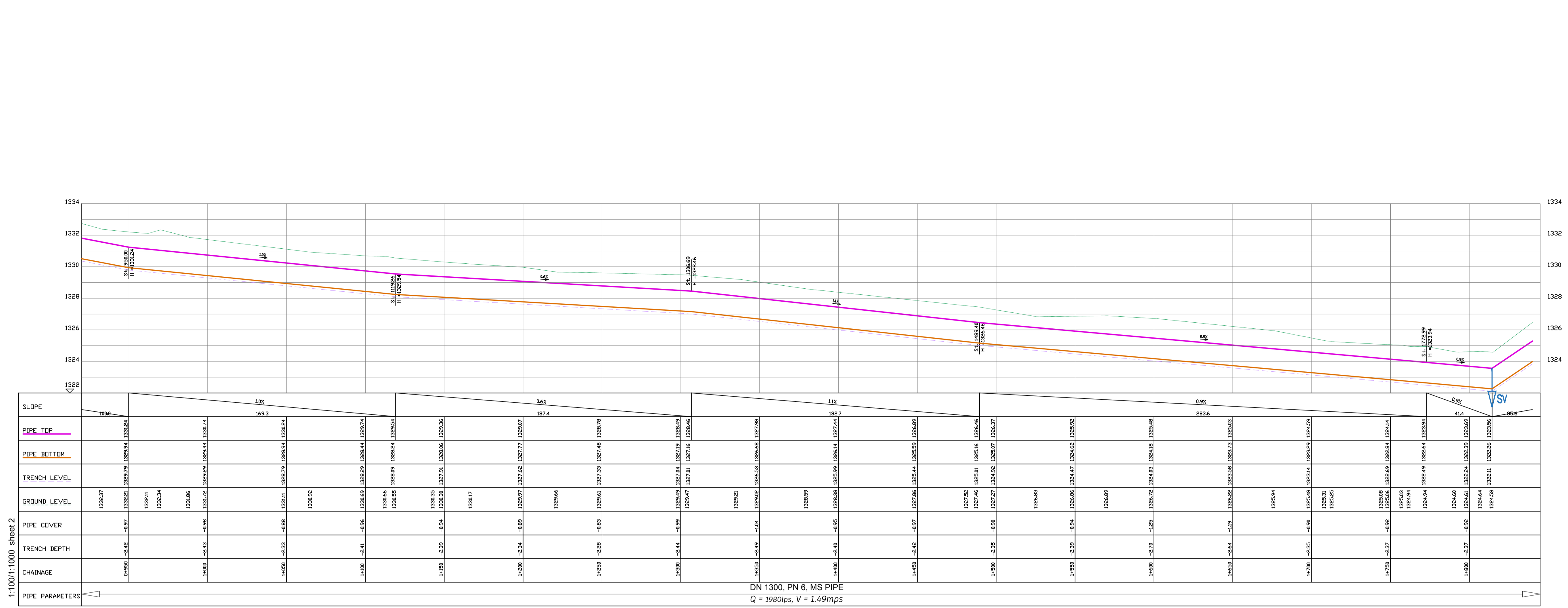
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
PRIMARY MAIN M1

Consultants: **arvee associates**
 arvee associates consultants pvt.ltd. S.
 Ravula Road, Shree Colony Main Rd., Hyderabad 52, India
 Tel: +91-40-33379333 Fax: +91-40-33379077
 e-mail: irrigation@arvee.net web: www.arvee.net

DRG. NO: MWE-KIS-NET-PPM1-01 Date: APR 2022



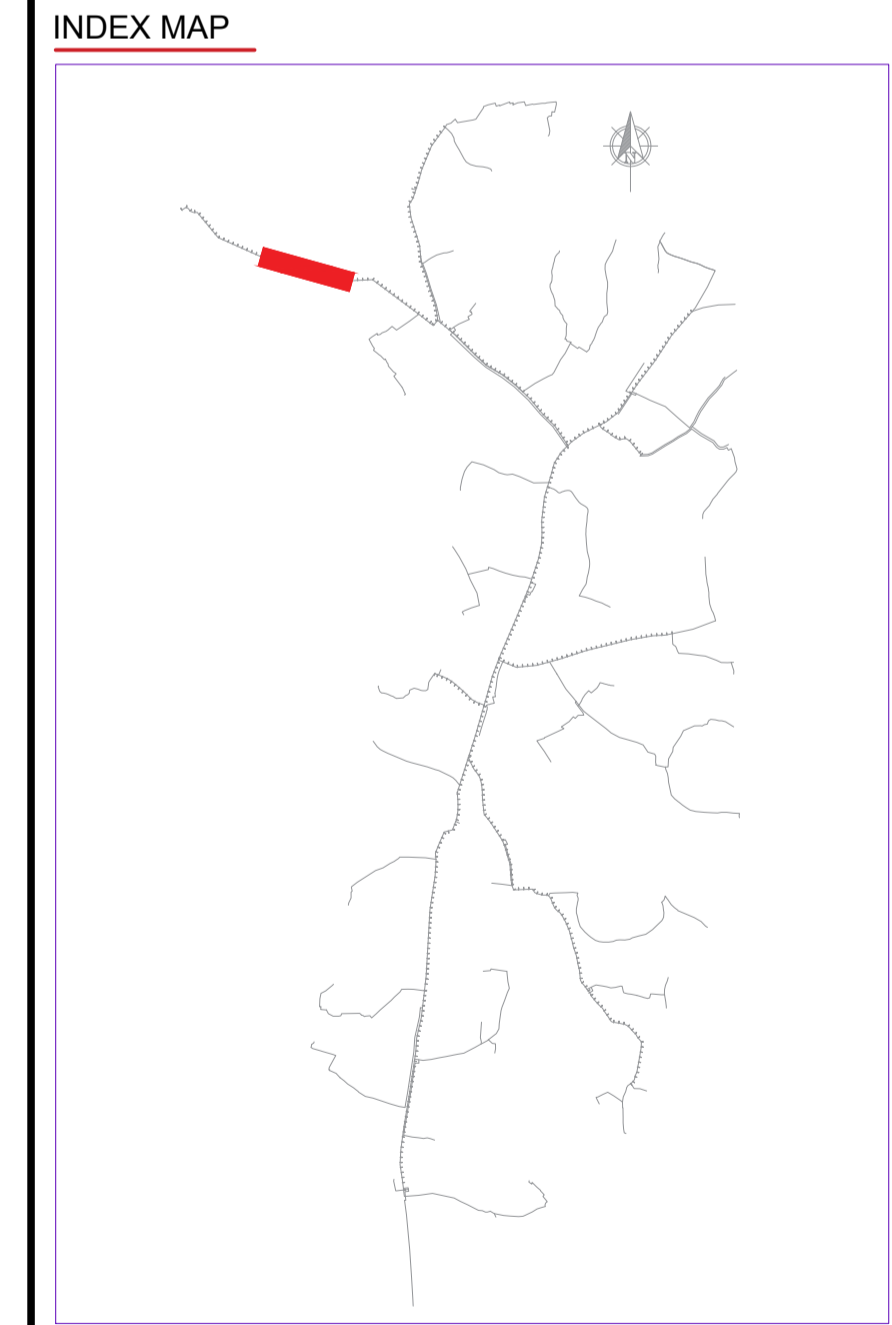
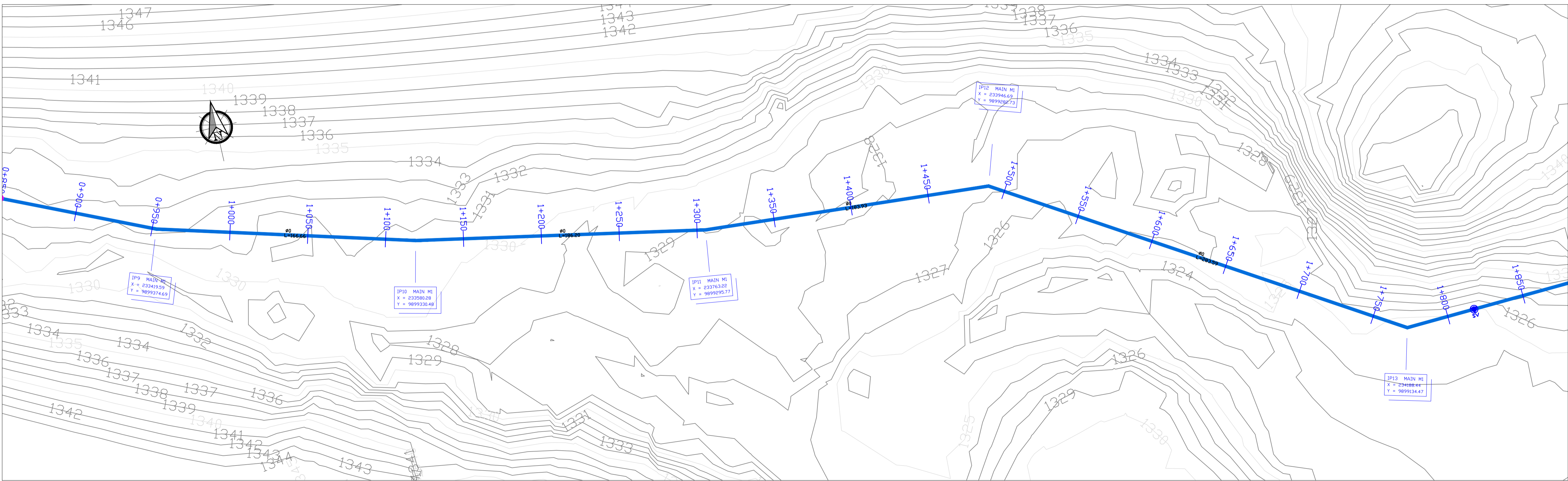
1:1000/1000 Sheet 2

PRIMARY MAIN M1

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Scale: Horizontal 1: 1000, Vertical 1: 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
PRIMARY MAIN M1

Consultants: **aarvee associates**
aarchitects engineers consultants pvt.ltd.s
Ravula Residency, Shreegar Colony Main Rd., Hyderabad 62, India
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e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPM1-02 Date: APR 2022



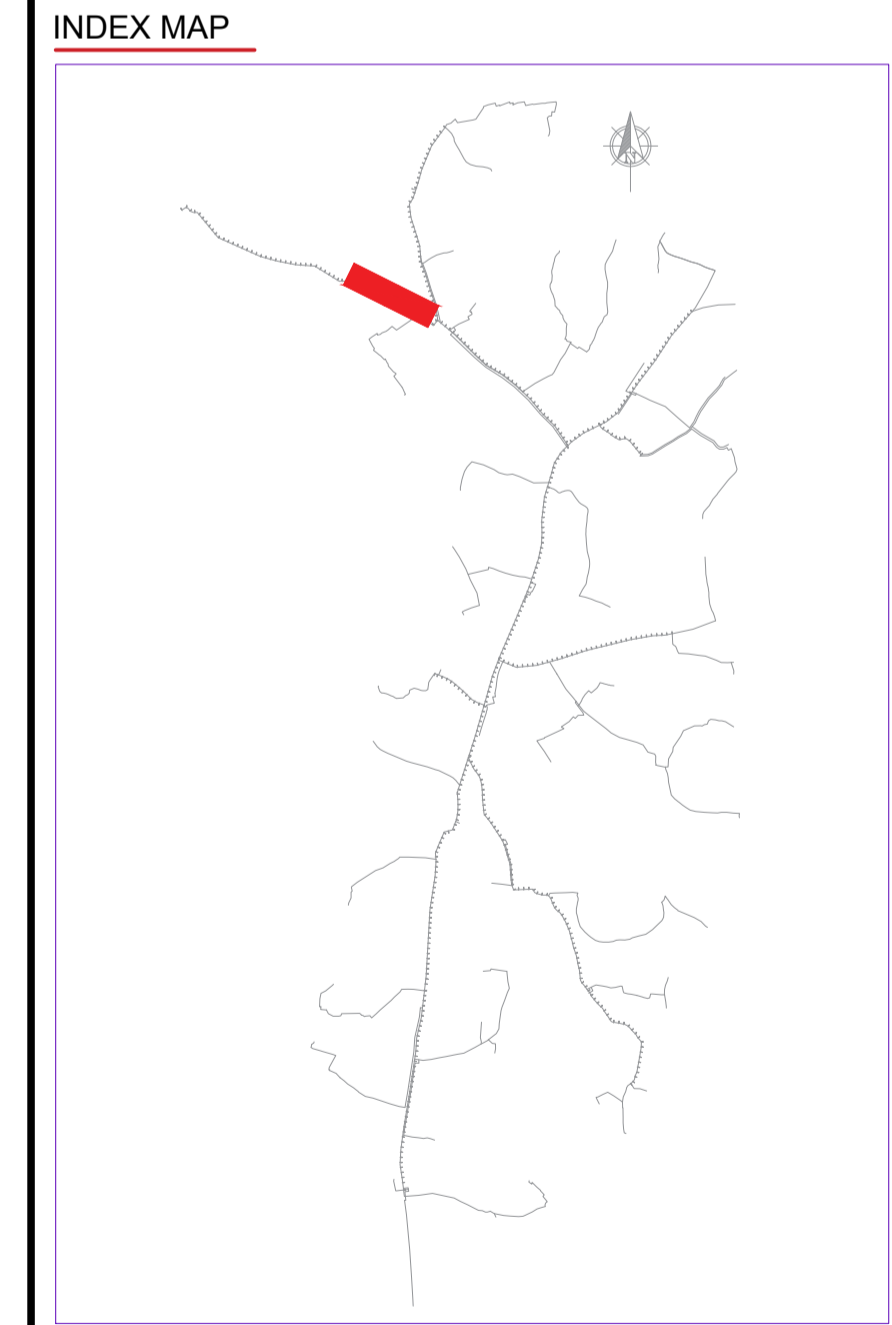
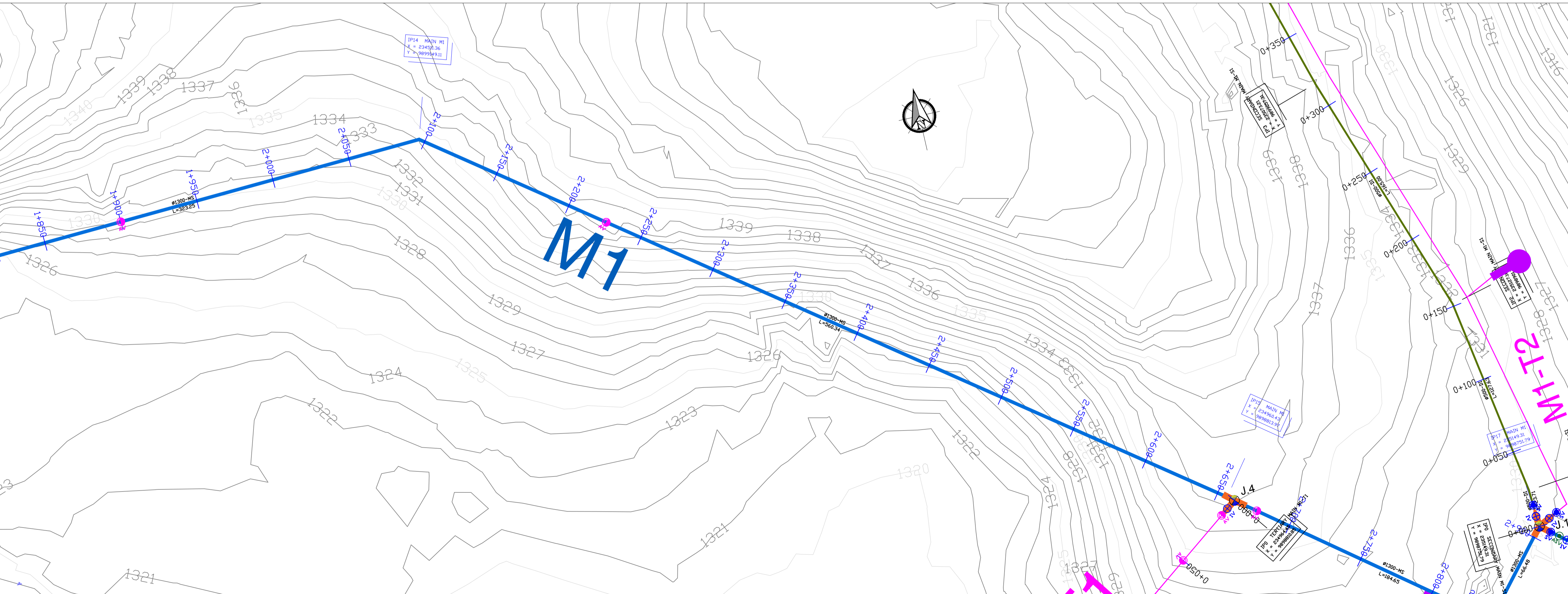
CHAINAGE	1+490	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750			
SLOPE	6.7%		85.6		15%		6.9%		1.7%		1.8%		4.2%		2.8%		5.3%		9.3%		2.2%		3.6%							
PIPE TOP	1325.96	1325.96	1327.84	1328.51	1328.66	1328.93	1329.10	1329.27	1329.42	1329.57	1329.72	1329.87	1329.99	1330.11	1330.23	1330.35	1330.47	1330.59	1330.71	1330.83	1330.95	1331.07	1331.19	1331.31	1331.43	1331.55	1331.67	1331.79	1331.91	
PIPE BOTTOM	1328.00	1328.00	1329.88	1330.55	1330.70	1330.97	1331.14	1331.31	1331.46	1331.61	1331.76	1331.88	1332.00	1332.12	1332.24	1332.36	1332.48	1332.60	1332.72	1332.84	1332.96	1333.08	1333.20	1333.32	1333.44	1333.56	1333.68	1333.80	1333.92	
TRENCH LEVEL	1328.00	1328.00	1329.88	1330.55	1330.70	1330.97	1331.14	1331.31	1331.46	1331.61	1331.76	1331.88	1332.00	1332.12	1332.24	1332.36	1332.48	1332.60	1332.72	1332.84	1332.96	1333.08	1333.20	1333.32	1333.44	1333.56	1333.68	1333.80	1333.92	
GROUND LEVEL	1327.99	1328.32	1329.10	1329.53	1329.66	1329.81	1329.96	1330.11	1330.26	1330.41	1330.56	1330.71	1330.86	1331.01	1331.16	1331.31	1331.46	1331.61	1331.76	1331.91	1332.06	1332.21	1332.36	1332.51	1332.66	1332.81	1332.96	1333.11	1333.26	1333.41
PIPE COVER	-1.58	-0.36	-0.04	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08	-0.09	-0.10	-0.11	-0.12	-0.13	-0.14	-0.15	-0.16	-0.17	-0.18	-0.19	-0.20	-0.21	-0.22	-0.23	-0.24	-0.25	-0.26	-0.27		
TRENCH DEPTH	-2.73	-2.35	-2.00	-1.65	-1.30	-0.95	-0.60	-0.25	0.10	0.45	0.80	1.15	1.50	1.85	2.20	2.55	2.90	3.25	3.60	3.95	4.30	4.65	5.00	5.35	5.70	6.05	6.40	6.75		

1:100/1:1000 Street 3
 DN 1300, PN 6, MS PIPE
 Q = 1980ps, V = 1.49mps
 PRIMARY MAIN M1

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
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Scale: Horizontal 1: 1000, Vertical 1: 100

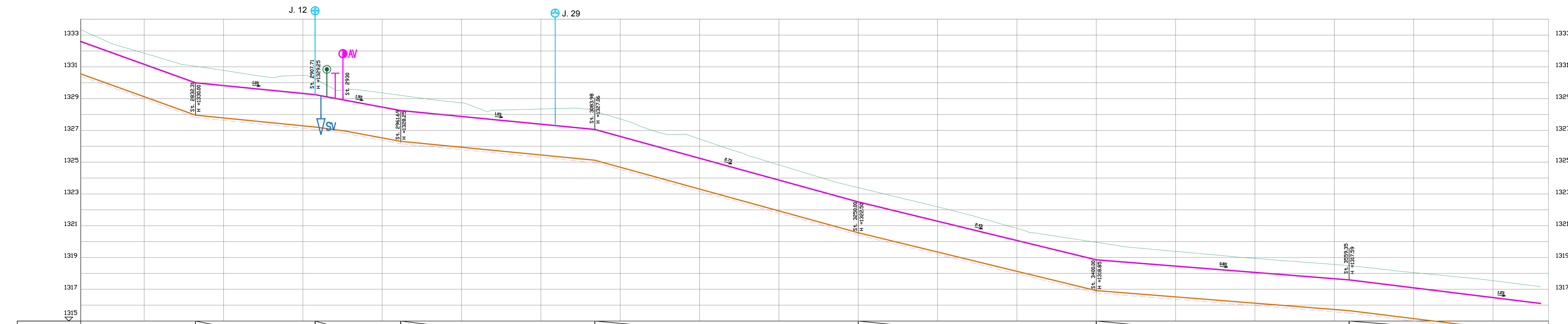
Client: REPUBLIC OF UGANDA, MINISTRY OF WATER AND ENVIRONMENT

Project: KABUYANDA IRRIGATION SCHEME

Title: PLAN PROFILE OF PIPE LINE PRIMARY MAIN M1

Consultants: aarvee associates

DRG. NO: MWE-KIS-NET-PPM1-03 | Date: APR 2022



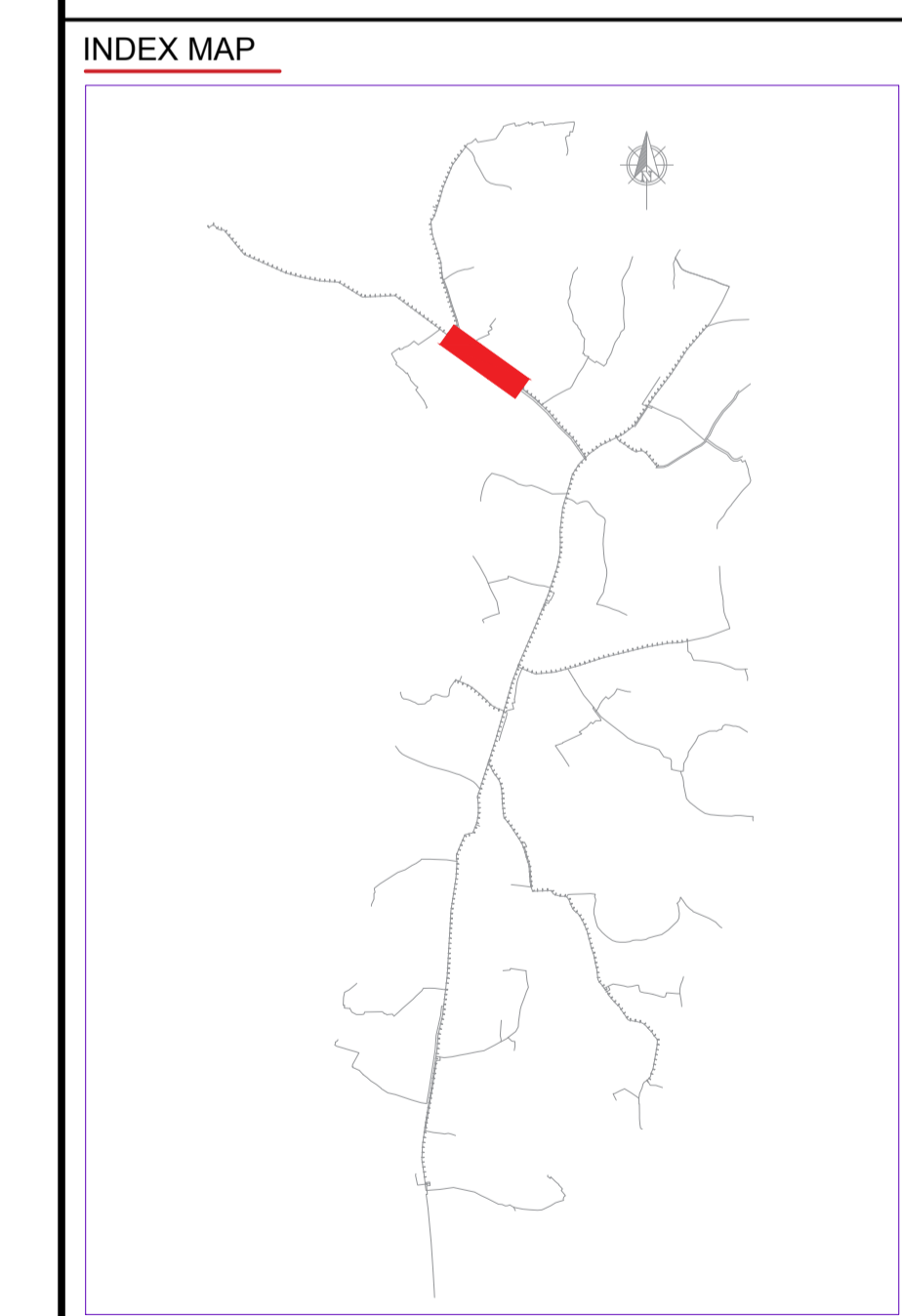
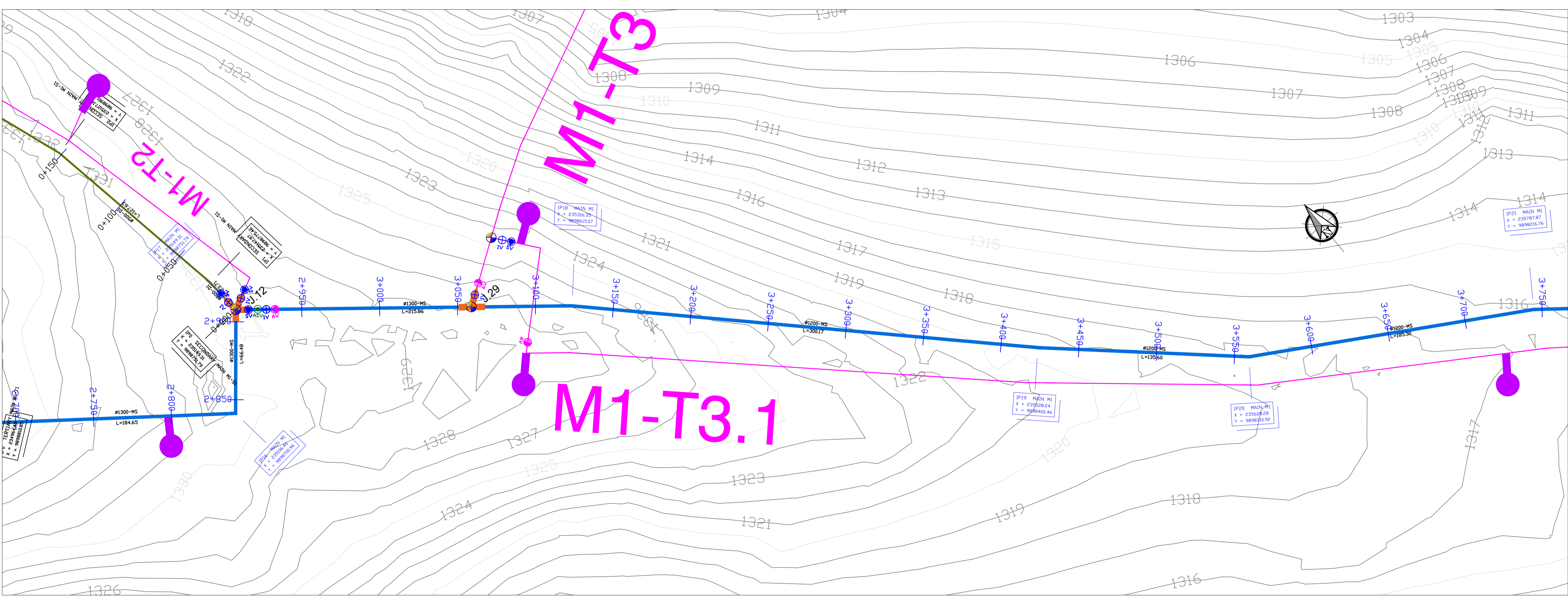
SLOPE	3.6%	1.7%	1.0%	1.0%	1.0%	0.7%	2.4%	0.8%	1.9%	
PIPE TOP	1332.42	1331.86	1331.16	1330.36	1329.56	1328.46	1327.46	1326.46	1325.46	
PIPE BOTTOM	1328.86	1328.16	1327.46	1326.66	1325.86	1324.76	1323.76	1322.76	1321.76	
TRENCH LEVEL	1328.86	1328.16	1327.46	1326.66	1325.86	1324.76	1323.76	1322.76	1321.76	
GROUND LEVEL	1332.42	1331.86	1331.16	1330.36	1329.56	1328.46	1327.46	1326.46	1325.46	
PIPE COVER	-0.75	-0.75	-0.95	-1.14	-0.95	-0.96	-0.96	-0.96	-0.96	
TRENCH DEPTH	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	
CHAINAGE	2+800	2+850	2+900	2+950	3+000	3+050	3+100	3+150	3+200	
PIPE PARAMETERS	DN 1300, PN 6, MS PIPE Q = 1980lps, V = 1.49mps				DN 1300, PN 6, MS PIPE Q = 1785lps, V = 1.35mps				DN 1200, PN 6, MS PIPE Q = 1710lps, V = 1.51mps	

1:100/1:1000 sheet 4
PRIMARY MAIN PIPE M1

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RECONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

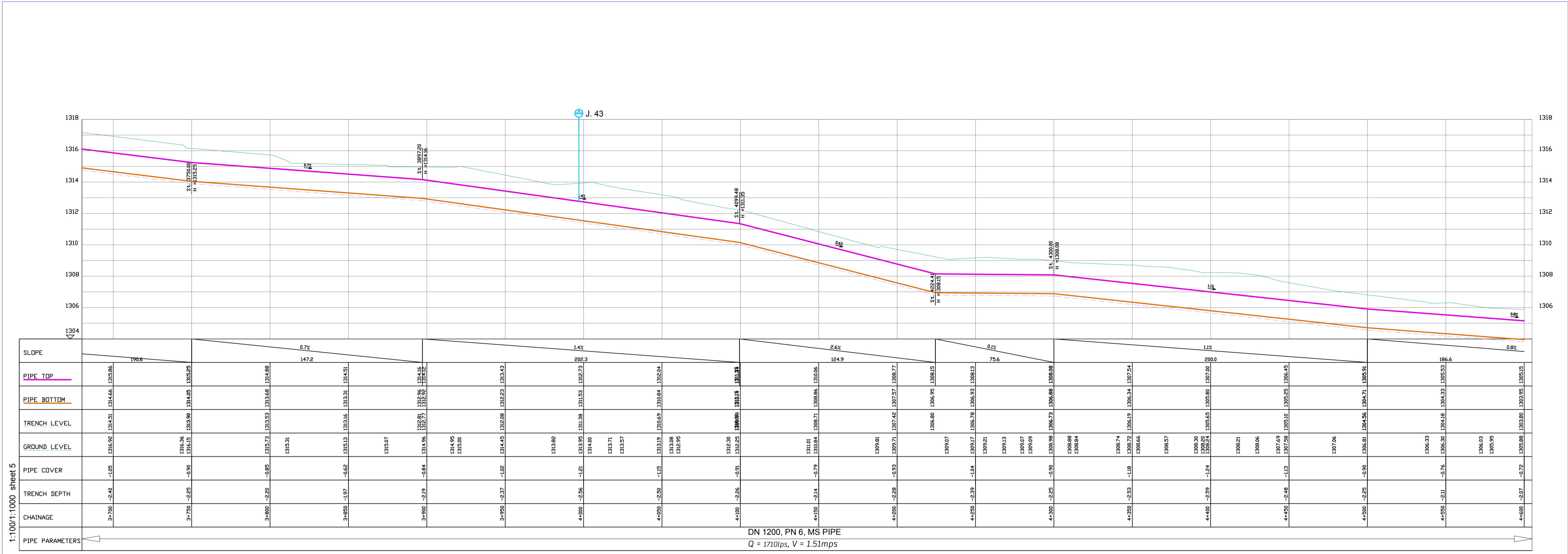
Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
PRIMARY MAIN M1**

Consultants: **aarvee associates**
aarchitects-engineers-consultants-pvt-ltd
Ravula Residency, Shreegar Colony Main Rd., Hyderabad-52, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPM1-04 Date: APR 2022

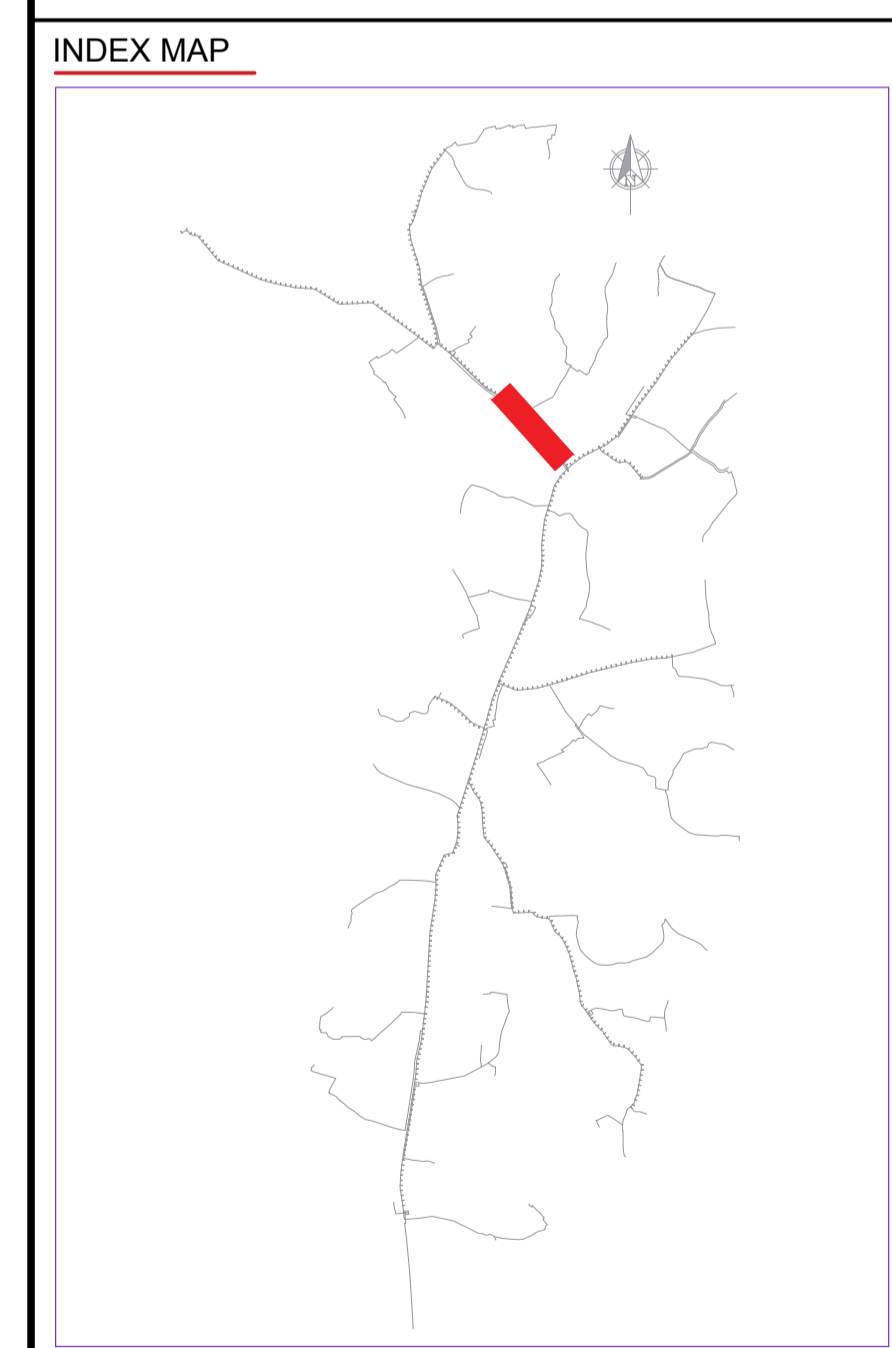
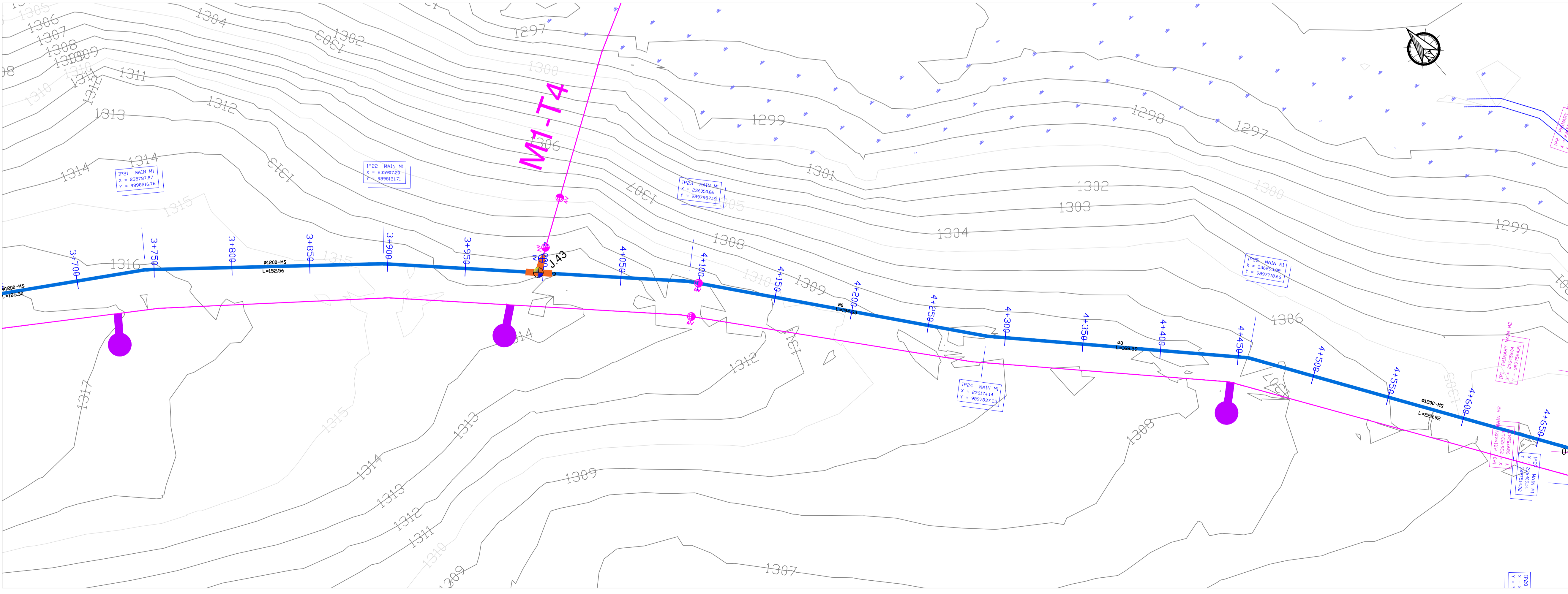


1:100/1:1000 sheet 5
 PRIMARY MAIN M1
 DN 1200, PN 6, MS PIPE
 Q = 1710lps, V = 1.51mps

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Scale: Horizontal 1 : 1000, Vertical 1 : 100

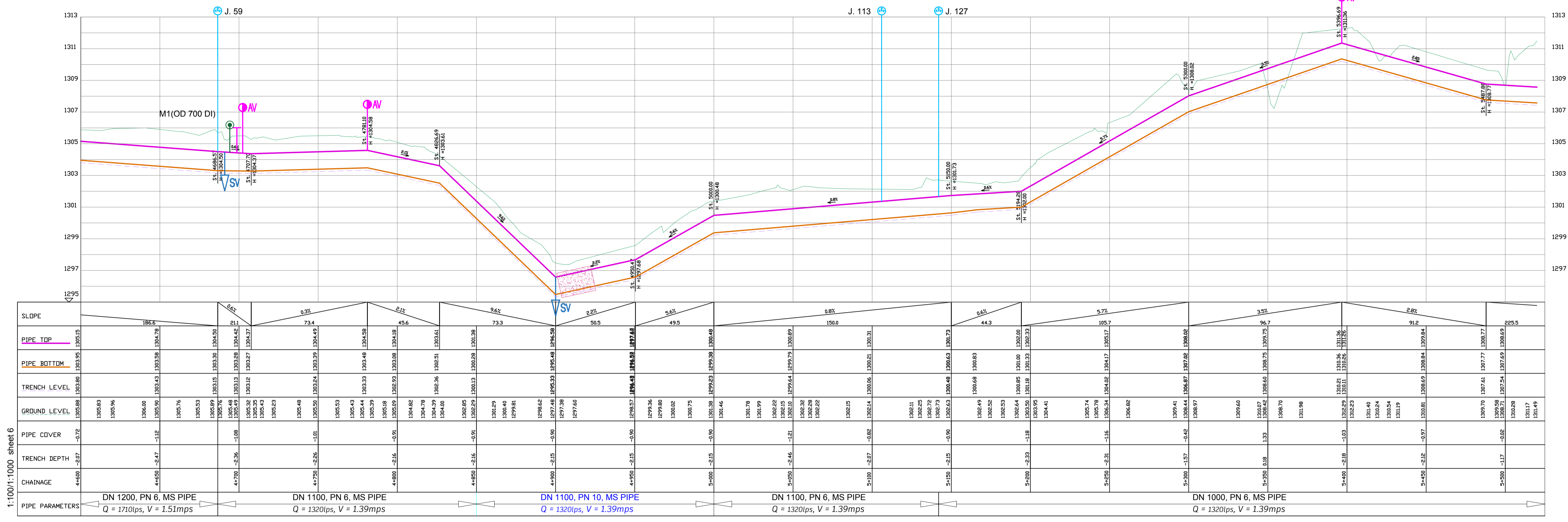
Client: **REPUBLIC OF UGANDA**
 MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE PRIMARY MAIN M1**

Consultants: **aarvee associates**
 Bangalore, Karnataka, India
 Tel: +91-80-23379333, Fax: +91-80-23379077, e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPM1-05 Date: APR 2022

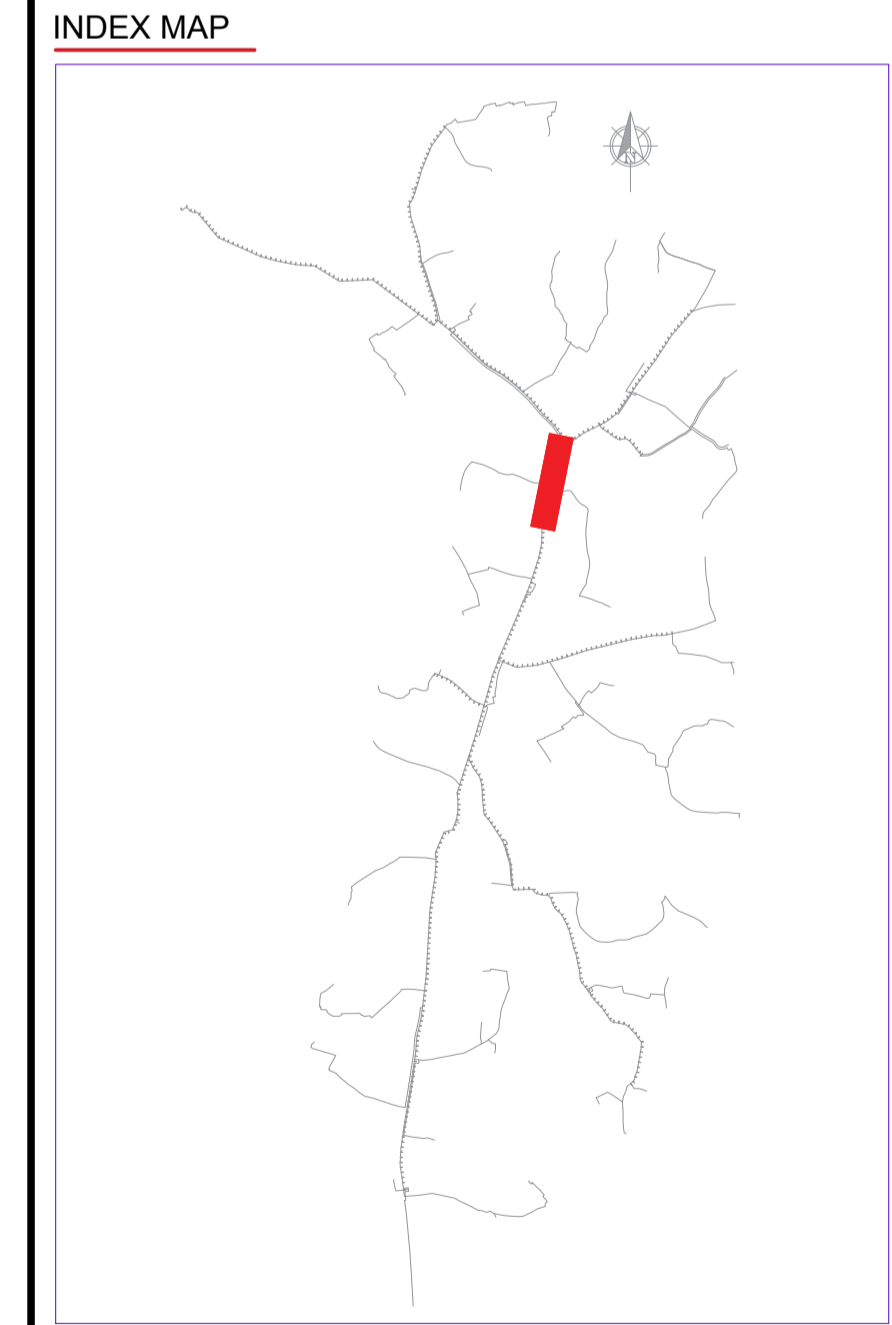
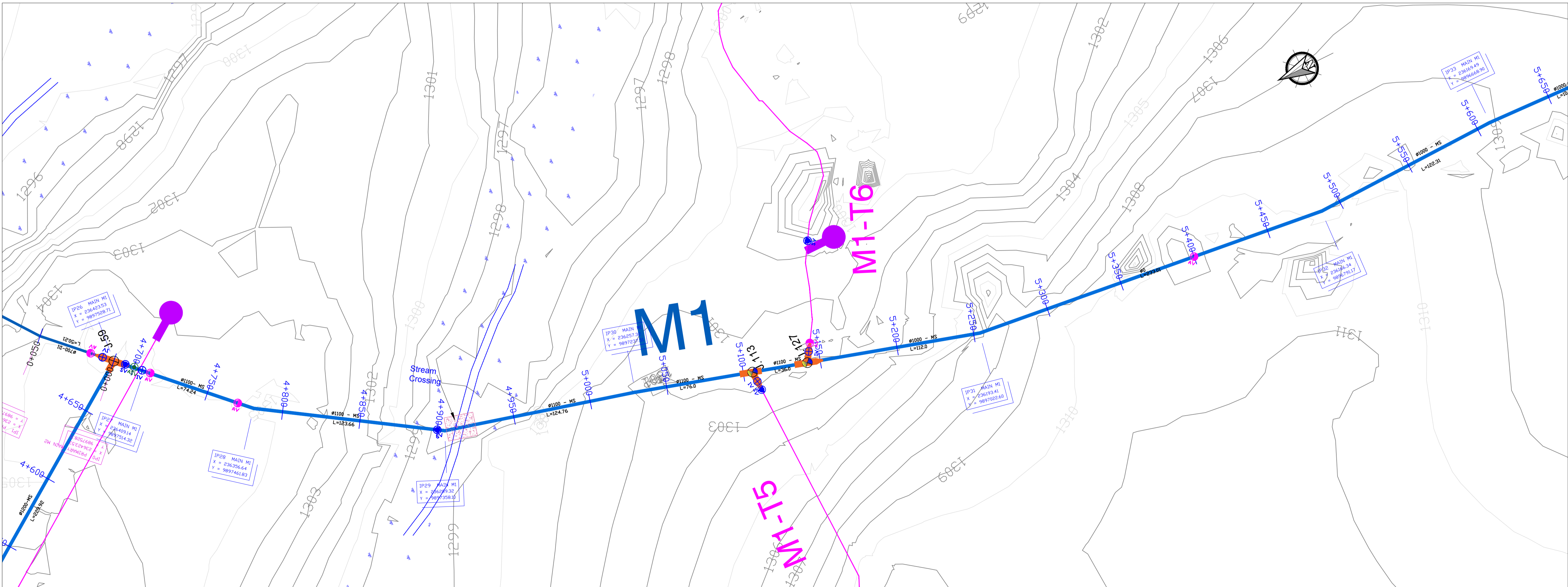


PRIMARY MAIN M1

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
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- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Scale: Horizontal 1: 1000, Vertical 1: 100

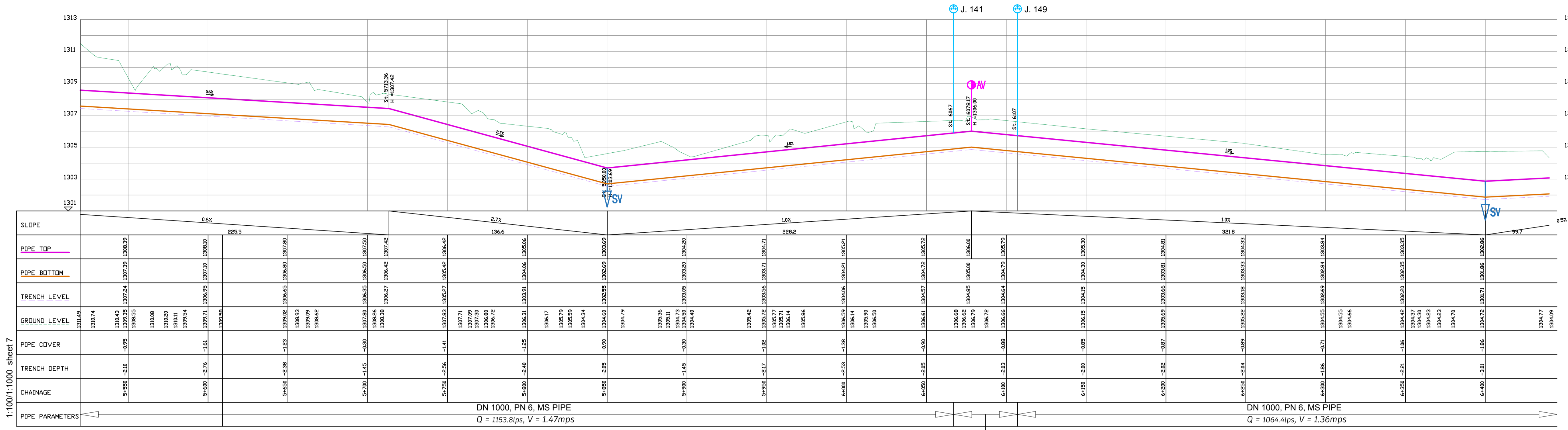
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

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Title: **PLAN PROFILE OF PIPE LINE**
PRIMARY MAIN M1

Consultants: **aarvee associates**
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e-mail: irrigation@aarvee.net web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPM1-06 Date: APR 2022



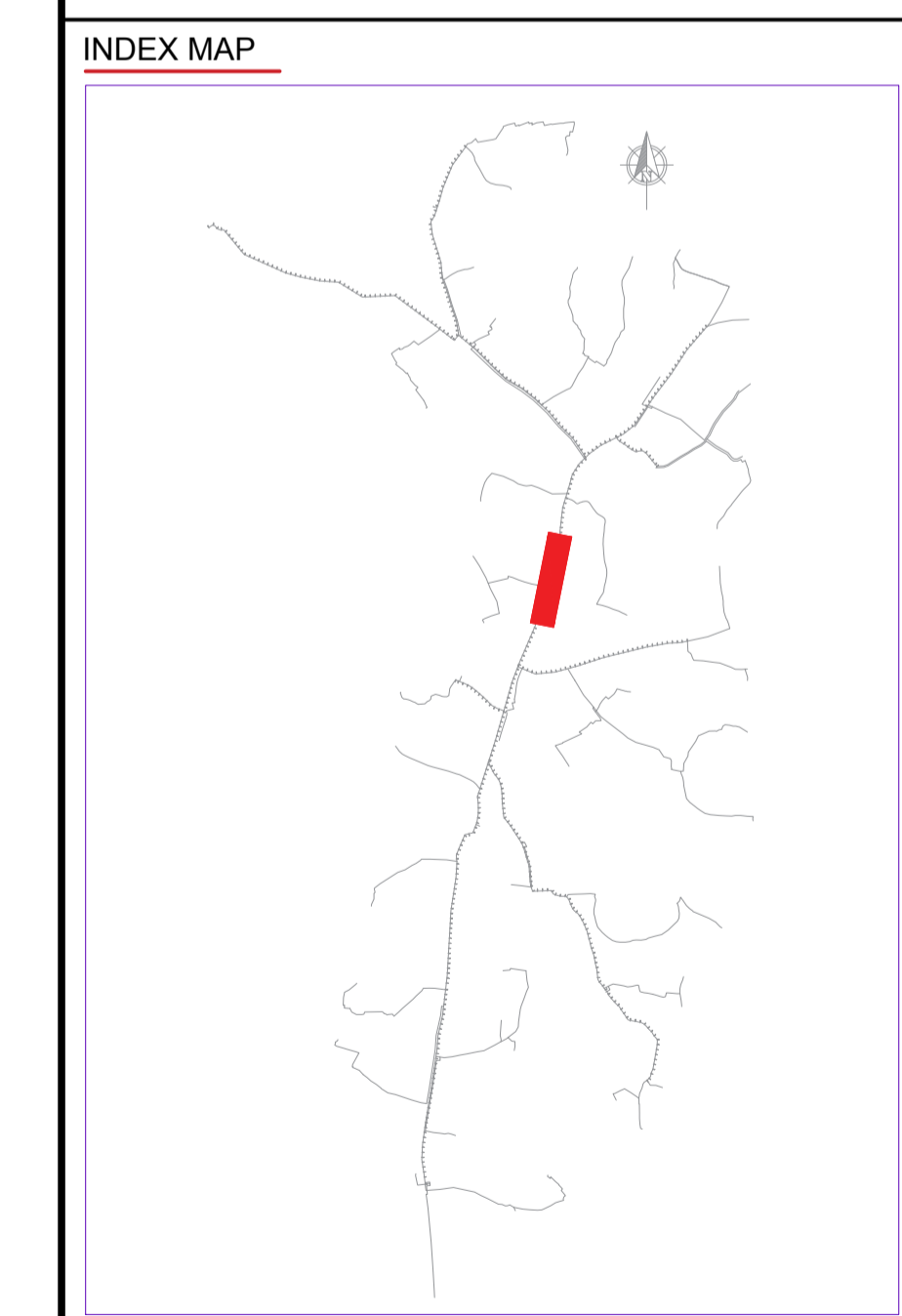
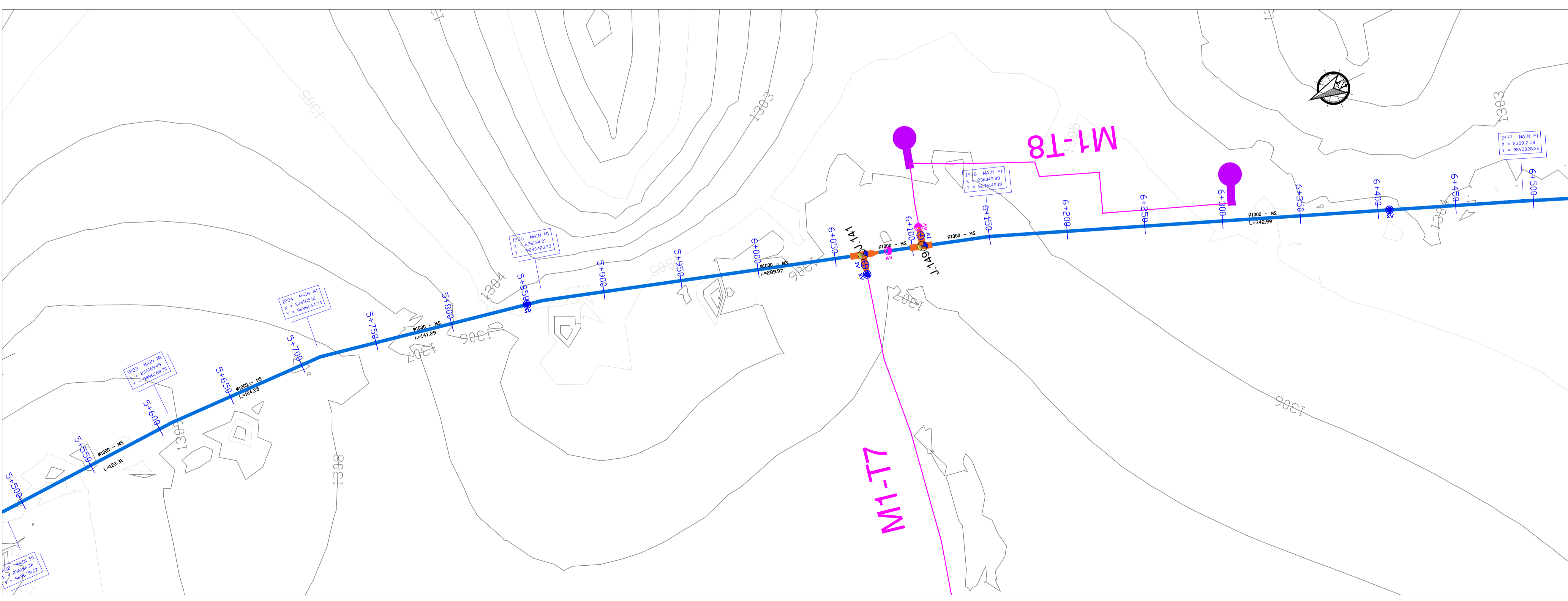
SLOPE	0.6%										2.7%										1.0%										0.5%									
PIPE TOP	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42
PIPE BOTTOM	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42
TRENCH LEVEL	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42
GROUND LEVEL	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1307.39	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1306.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1305.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42	1304.42
PIPE COVER	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
TRENCH DEPTH	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
CHAINAGE	5+500	5+550	5+600	5+650	5+700	5+750	5+800	5+850	5+900	5+950	6+000	6+050	6+100	6+150	6+200	6+250	6+300	6+350	6+400	6+450	6+500	6+550	6+600	6+650	6+700	6+750	6+800	6+850	6+900	6+950	7+000	7+050	7+100	7+150	7+200	7+250	7+300	7+350	7+400	7+450
PIPE PARAMETERS	DN 1000, PN 6, MS PIPE Q = 1153.8lps, V = 1.47mps										DN 1000, PN 6, MS PIPE Q = 1064.4lps, V = 1.36mps										DN 1100, PN 6, MS PIPE Q = 1103.4lps, V = 1.36mps																			

PRIMARY MAIN M1

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
 - REFER TO AUXILIARY WORKS DRAWINGS FOR ANCHORAGE TO PIPELINES, AIR VALVES DETAILS, PIPE PEDESTALS, PULLEY SUPPORT, TRENCH DETAILS, VALVE CHAMBERS, WASHOUT CHAMBERS AND WATER METERS.
 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

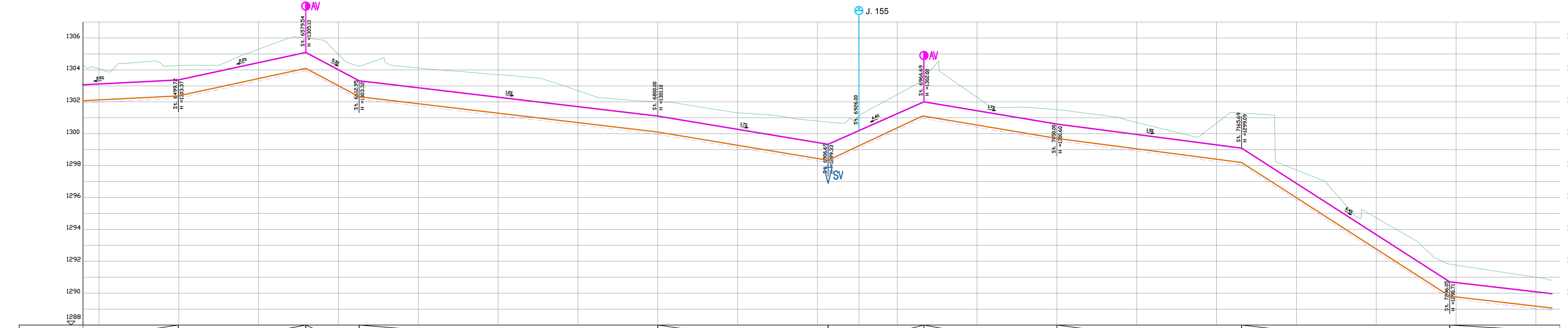
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
PRIMARY MAIN M1

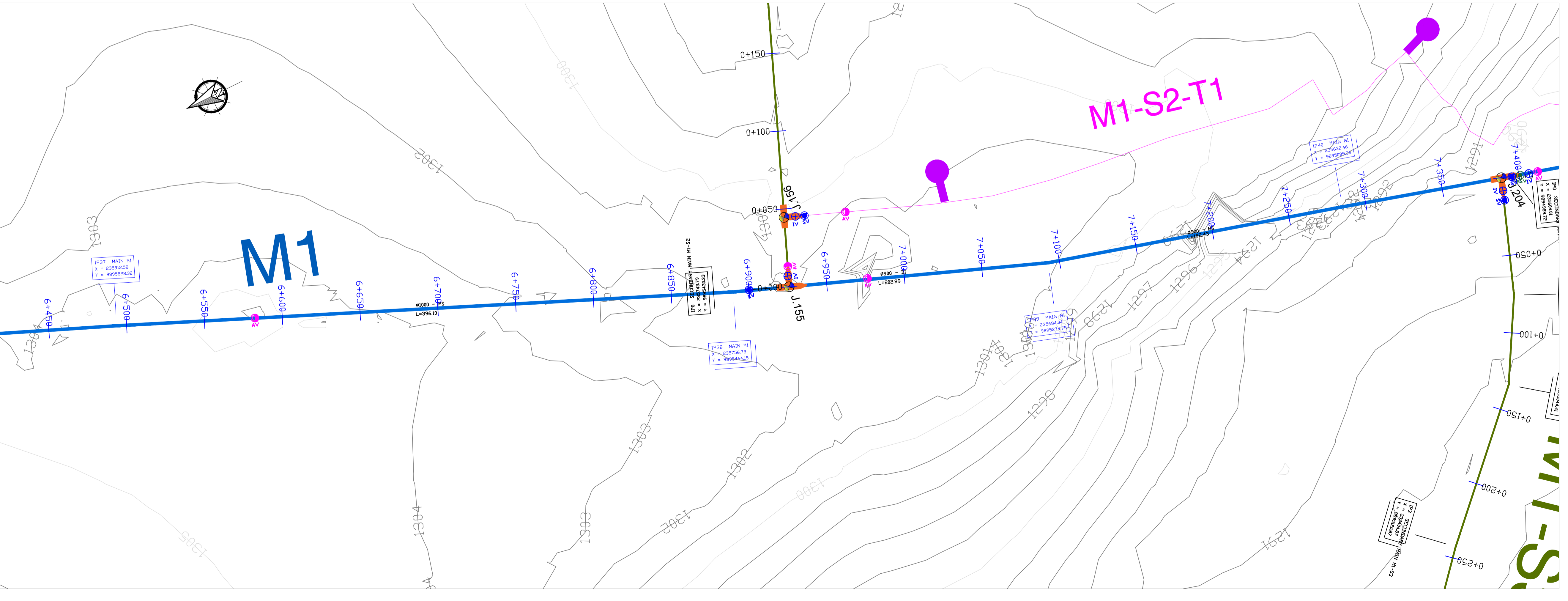
Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd. S.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad 50, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPM1-07 Date: APR 2022



SLOPE	0.5%	99.7	2.2%	79.8	5.3%	33.4	1.2%	187.9	1.7%	106.7	4.4%	60.0	1.7%	83.3	1.3%	115.7	6.4%	130.4	250.6	
PIPE TOP	1302.09	1302.07	1302.12	1302.12	1302.10	1302.01	1302.01	1302.01	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	
PIPE BOTTOM	1302.09	1302.07	1302.12	1302.12	1302.10	1302.01	1302.01	1302.01	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	
TRENCH LEVEL	1302.09	1302.07	1302.12	1302.12	1302.10	1302.01	1302.01	1302.01	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	1302.02	
GROUND LEVEL	1302.09	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	1302.06	
PIPE COVER	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	
TRENCH DEPTH	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	
CHAINAGE	6+400	6+450	6+500	6+550	6+600	6+650	6+700	6+750	6+800	6+850	6+900	6+950	7+000	7+050	7+100	7+150	7+200	7+250	7+300	
PIPE PARAMETERS	DN 1000, PN 6, MS PIPE Q = 1064.4lps, V = 1.36mps										DN 1000, PN 10, MS PIPE Q = 1064.4lps, V = 1.36mps					DN 900, PN 10, DI PIPE Q = 1064.4lps, V = 1.22mps				

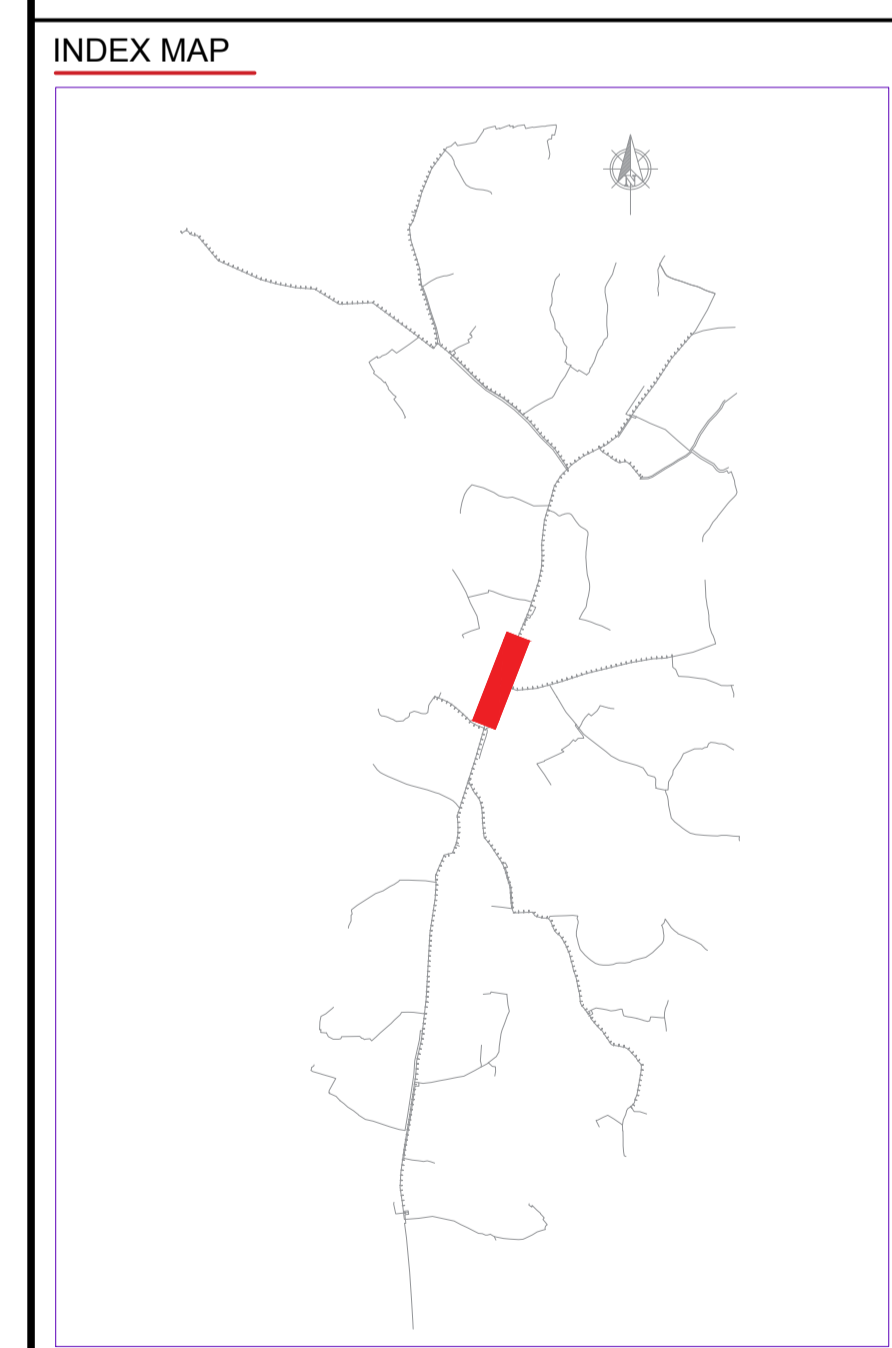
PRIMARY MAIN M1



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

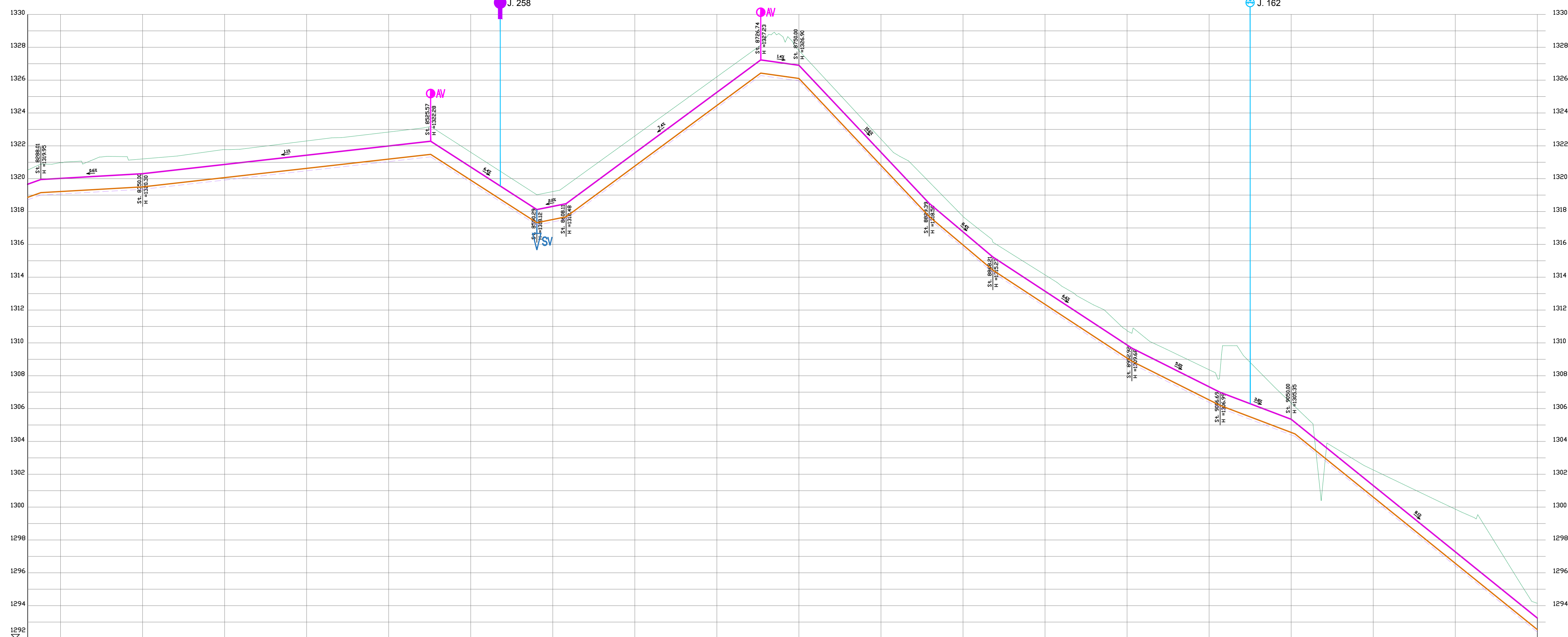
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
PRIMARY MAIN M1

Consultants: **arvee associates**
arvee associates consultants pvt.ltd. &
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@arvee.net web: www.arvee.net

DRG. NO: MWE-KIS-NET-PPM1-08 Date: APR 2022



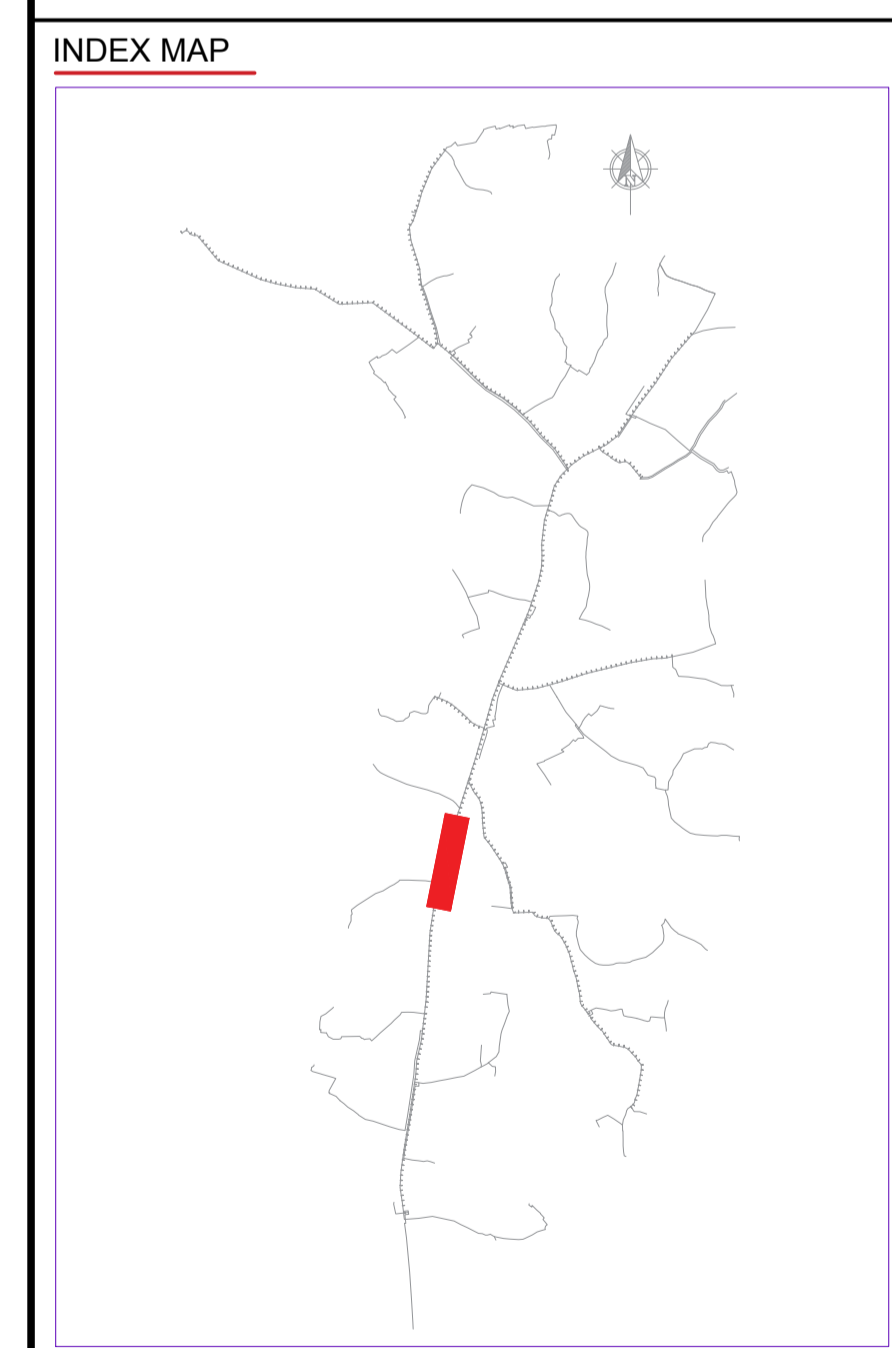
SLOPE	88.0	0.6%	1.1%	6.4%	7.4%	10.6%	8.4%	6.6%	3.0%	3.0%	8.1%	
PIPE TOP	1319.95	1319.95	1320.06	1324.43	1327.23	1326.61	1316.50	1311.15	1307.23	1304.23	1301.31	
PIPE BOTTOM	1319.15	1319.32	1320.07	1324.57	1327.23	1326.61	1316.76	1311.15	1307.23	1304.23	1301.31	
TRENCH LEVEL	1319.00	1319.17	1319.92	1324.57	1327.23	1326.61	1316.76	1311.15	1307.23	1304.23	1301.31	
GROUND LEVEL	1320.68	1320.84	1321.07	1324.99	1327.79	1326.99	1317.70	1312.69	1308.56	1305.44	1302.31	
PIPE COVER	-0.95	-0.95	-0.95	-0.85	-0.85	-0.85	-0.94	-0.99	-1.04	-1.09	-0.95	
TRENCH DEPTH	50	50	50	50	50	50	50	50	50	50	50	
CHAINAGE	8+000	8+250	8+400	8+550	8+600	8+700	8+850	8+900	9+000	9+050	9+100	
PIPE PARAMETERS	DN 800, PN 6, DI PIPE Q = 478.2lps, V = 0.95mps						DN 700, PN 10, DI PIPE Q = 424.2lps, V = 1.10mps					

PRIMARY MAIN M1

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- SCOUR VALVE On Profile View
- ISOLATION VALVE On Profile View
- ANTI-SURGE VALVE On Profile View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT
- AIR VALVE On Plan View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Plan View

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

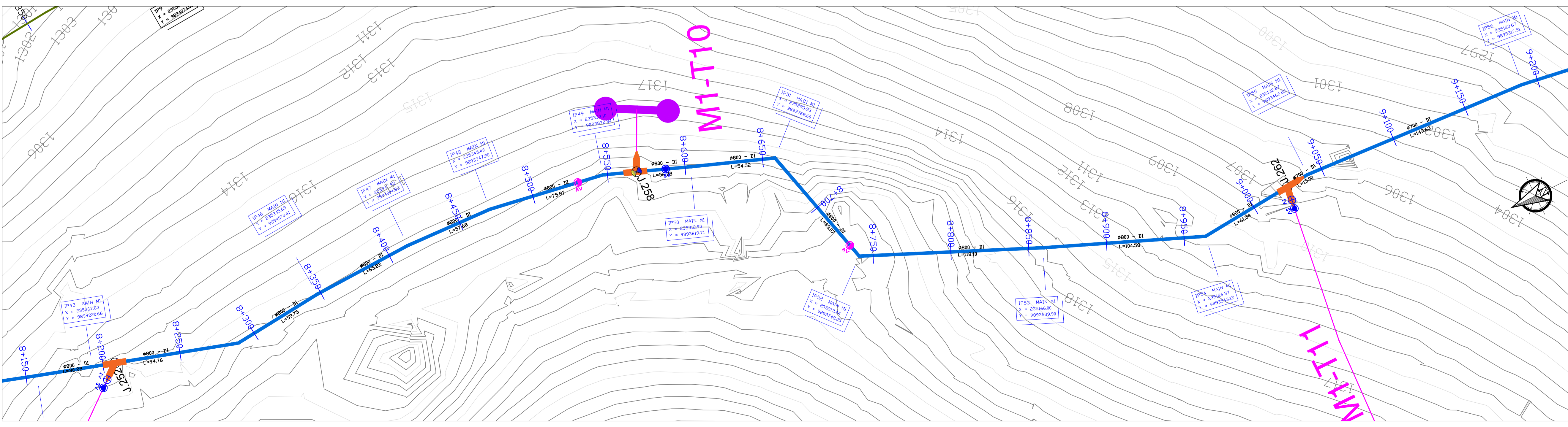
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

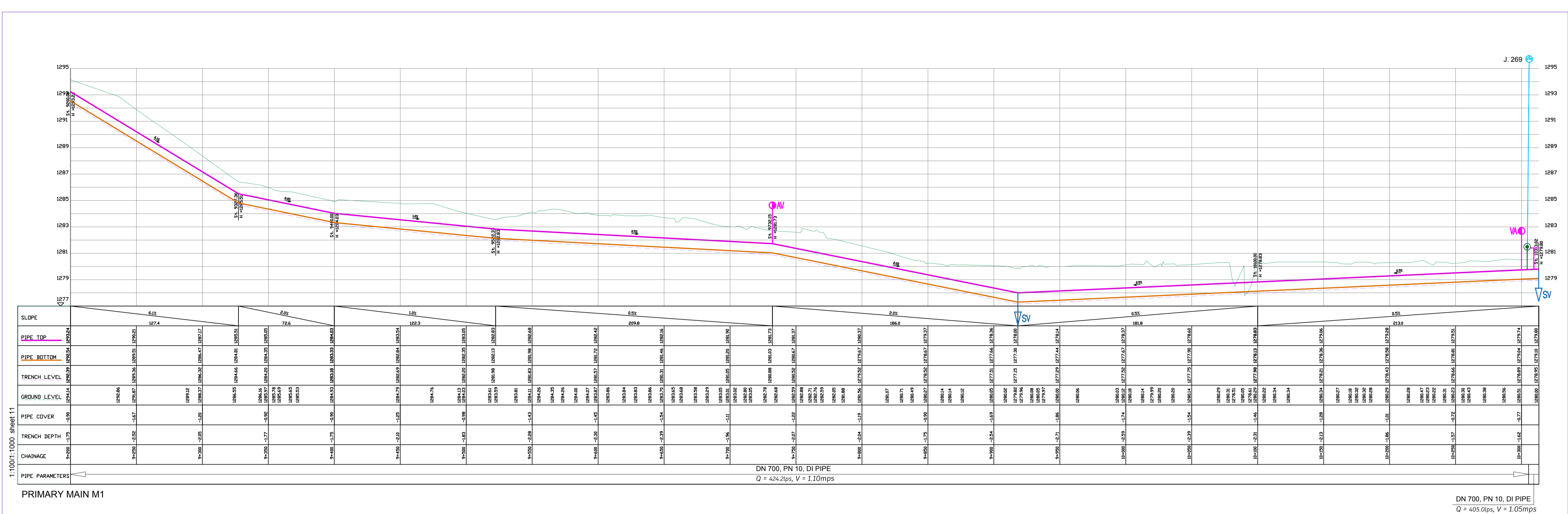
Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
PRIMARY MAIN M1**

Consultants: **aarvee associates**
Ravula Residency, Shingar Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33379333 Fax: +91-40-2319077
e-mail: irrigation@aarvee.net web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPM1-10 Date: APR 2022



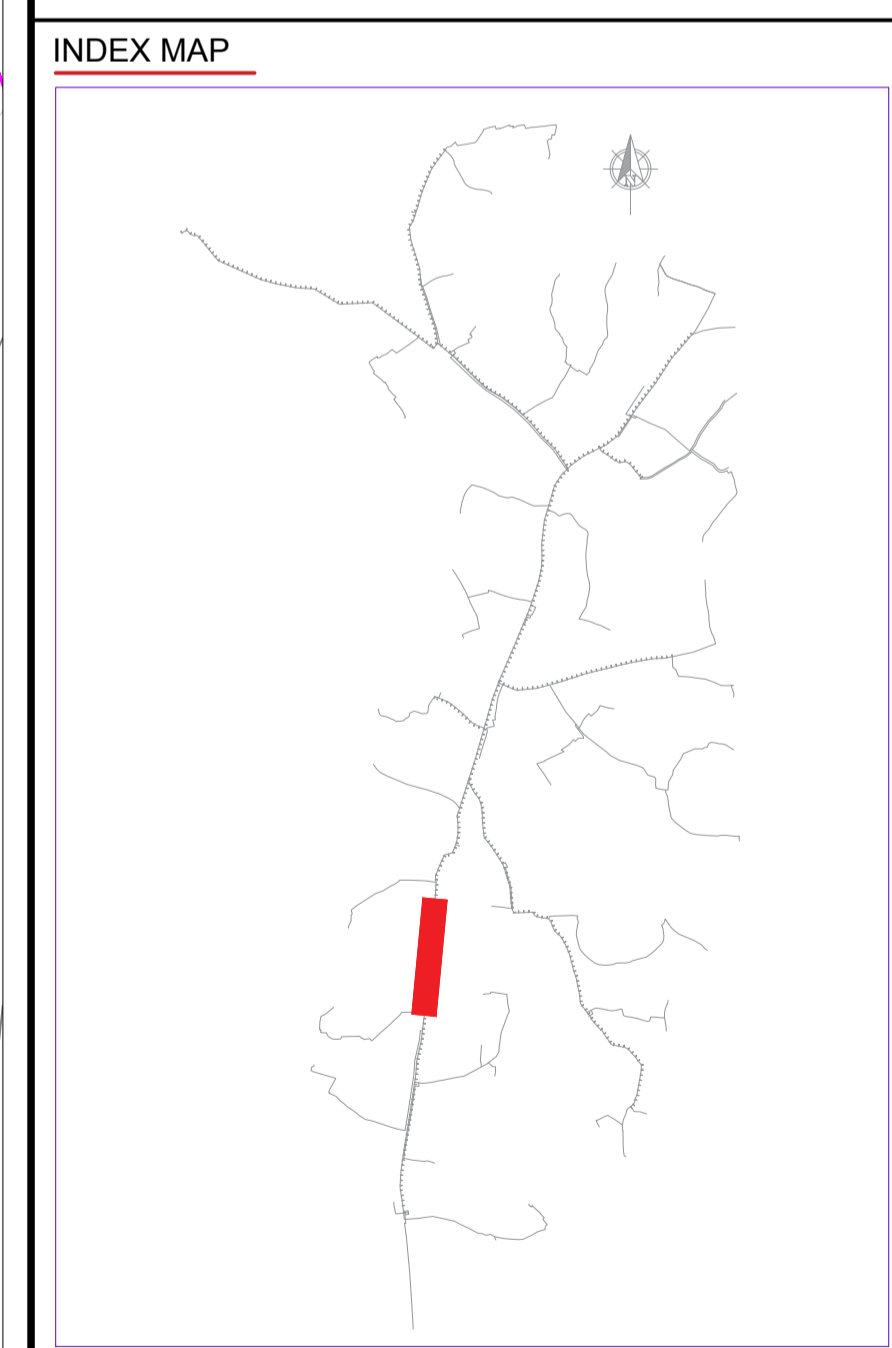
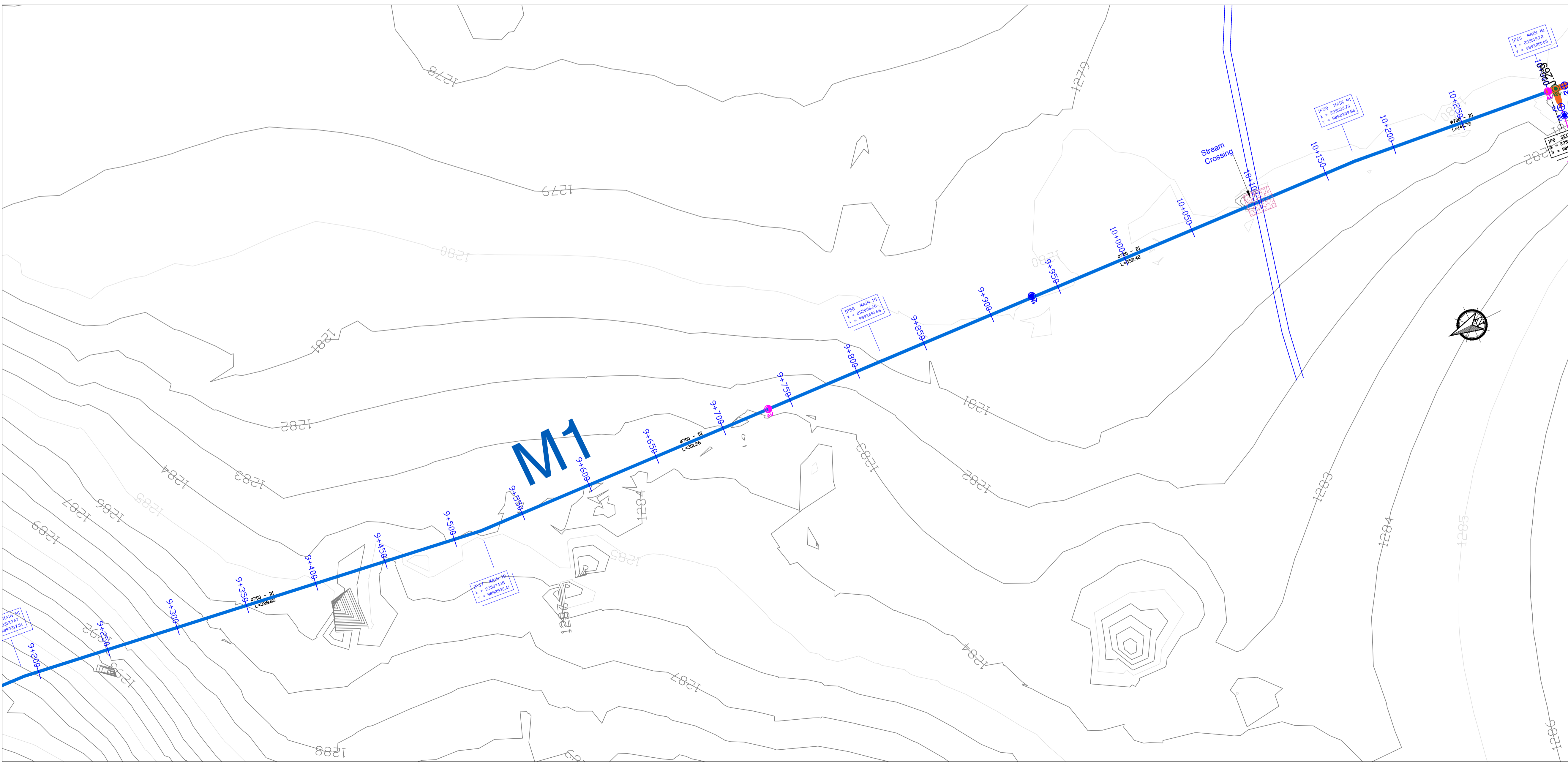


PRIMARY MAIN M1
 DN 700, PN 10, DI PIPE
 Q = 424.2lps, V = 1.10mps
 DN 700, PN 10, DI PIPE
 Q = 405.0lps, V = 1.05mps

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
 Vertical 1 : 100

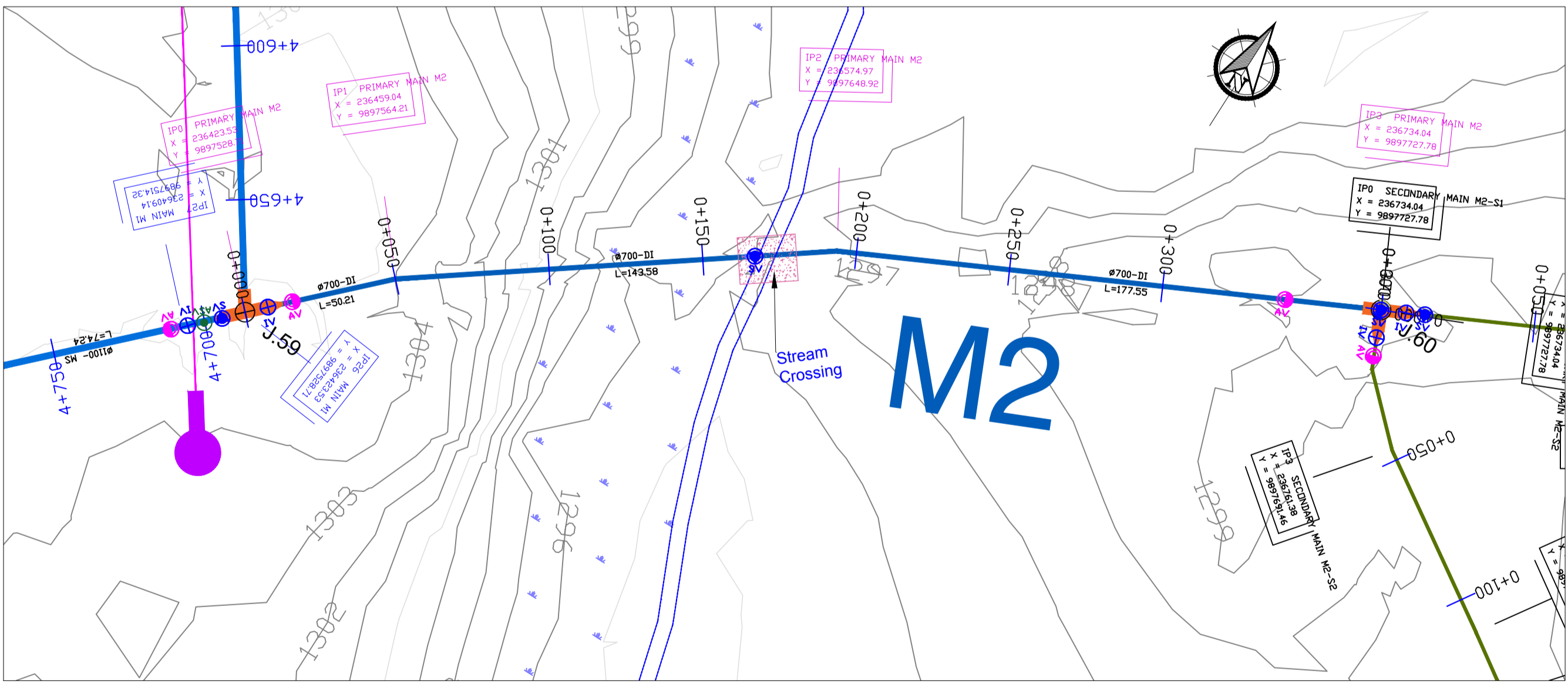
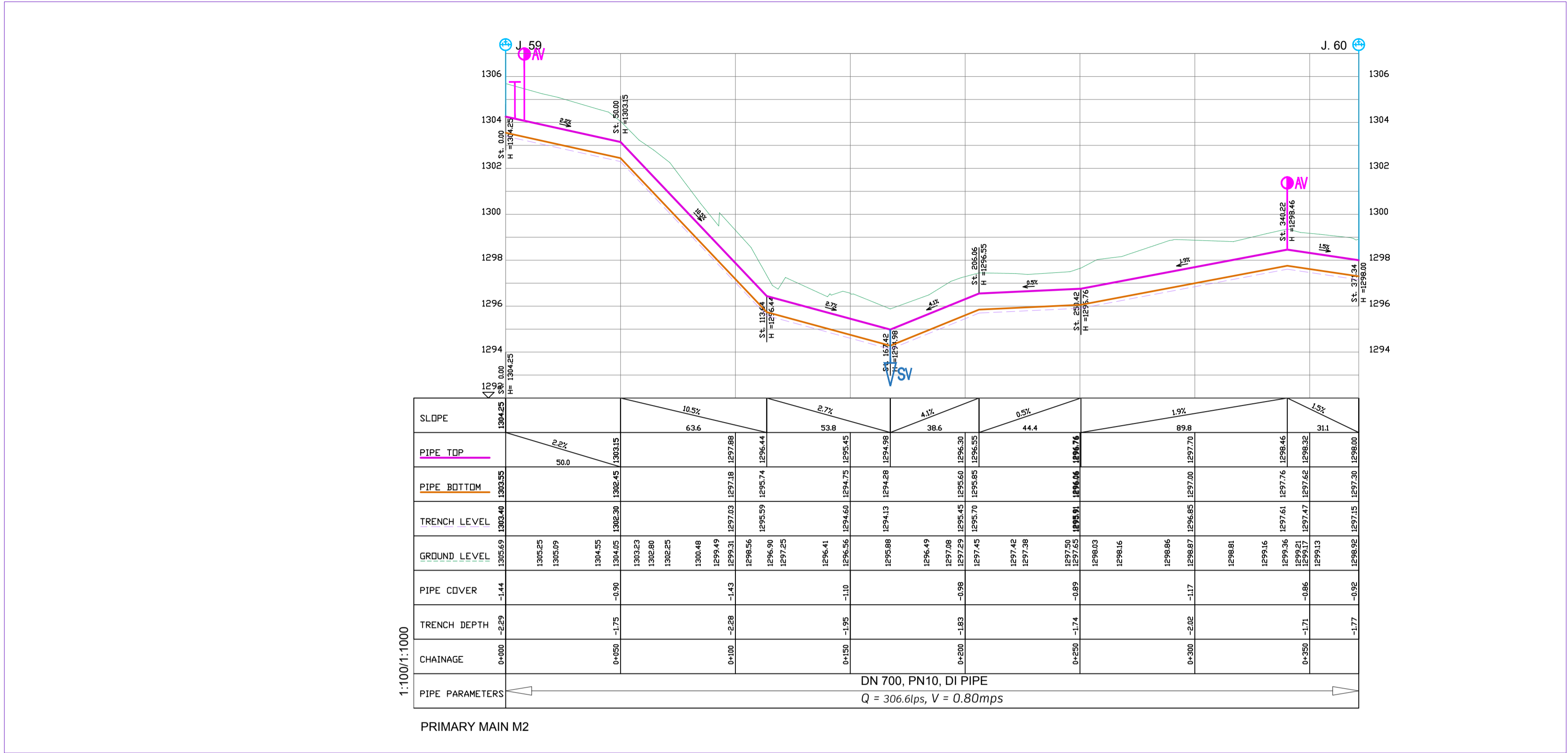
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
PRIMARY MAIN M1

Consultants: **aarvee associates**
 8th Floor, Independence Corner, Plot 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
 Ravula Residency, Shiraga Colony Main Rd., Hydrobad 62, India
 Tel: +91-40-33379333 Fax: +91-40-33379077
 e-mail: irrigation@aarvee.net web: www.aarvee.net

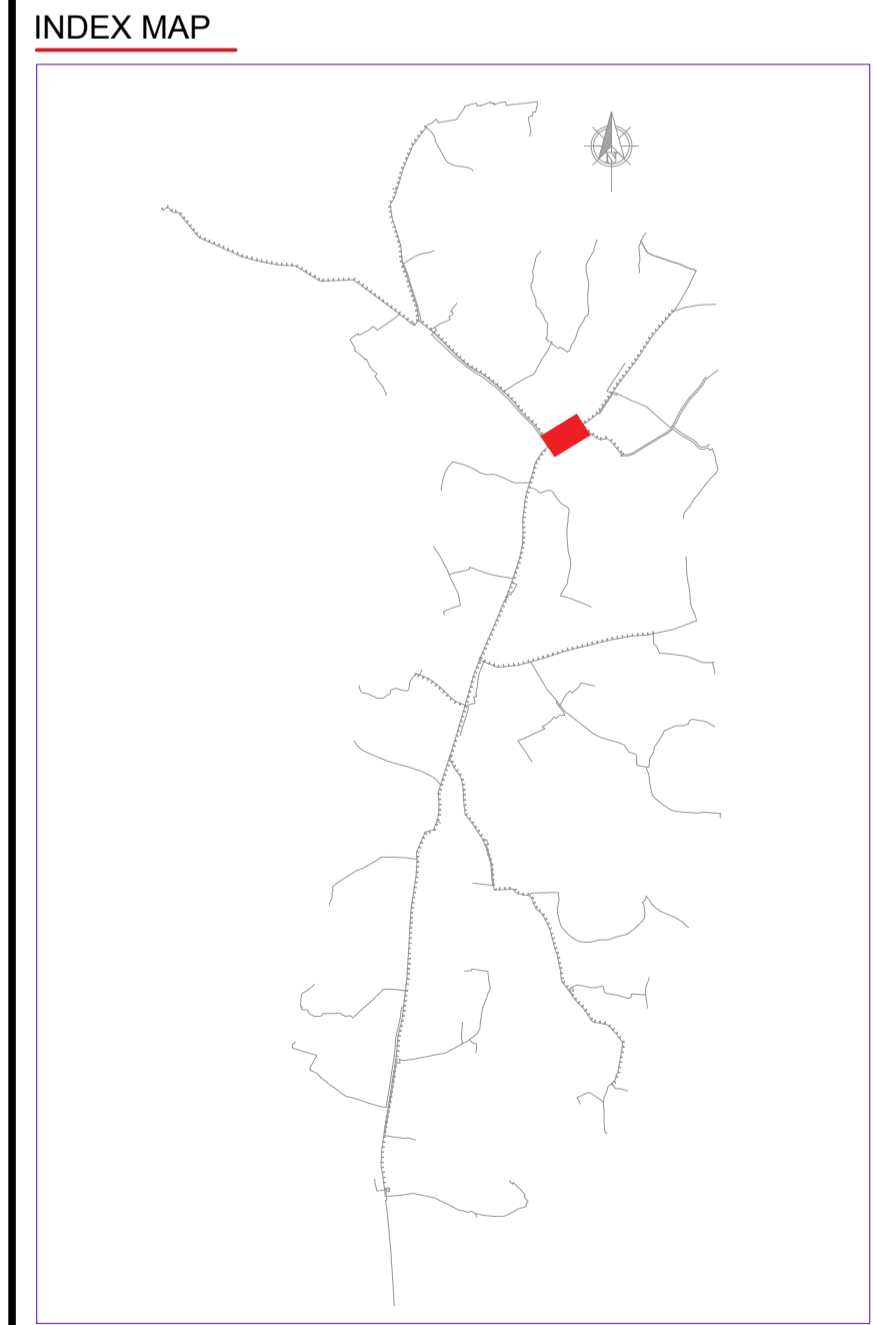
DRG. NO: MWE-KIS-NET-PPM1-11 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

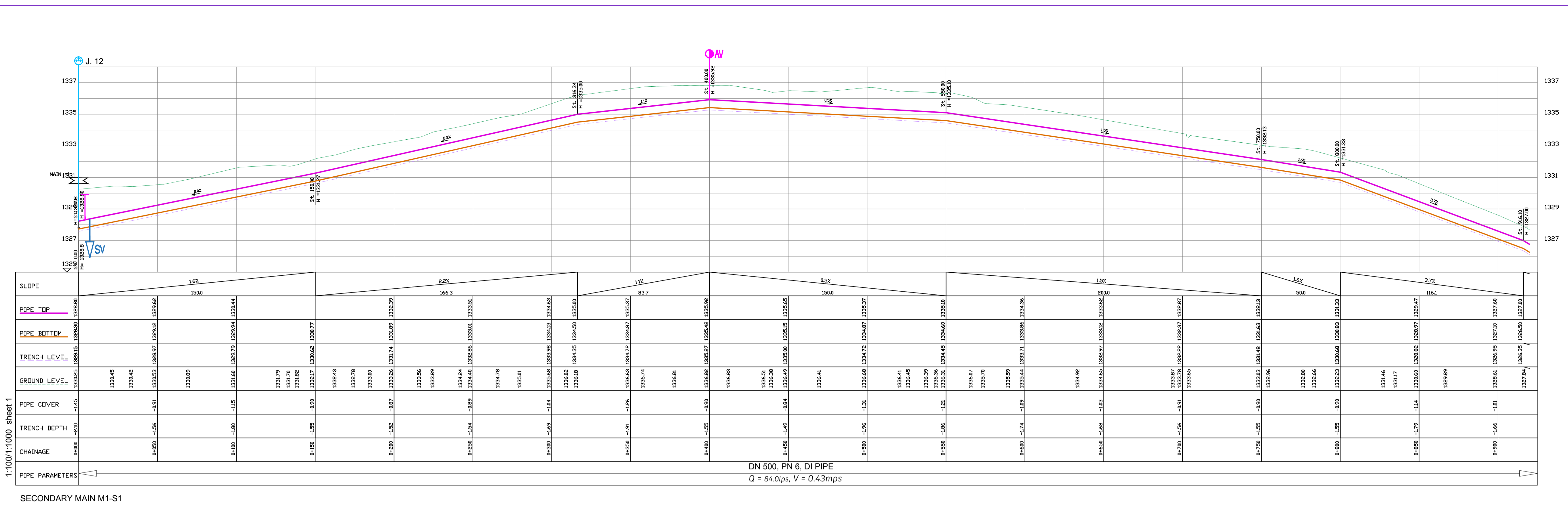
Project: KABUYANDA IRRIGATION SCHEME

Title: PLAN PROFILE OF PIPE LINE
PRIMARY MAIN M2

Consultants: aarvee associates
 aarvee associates consultants Pvt. Ltd. S
 Ravula Residency, Shreegar Colony Main Rd., Hyderabad 62, India
 Tel: +91-40-33379333 Fax: +91-40-33379077
 e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPM2-01 Date: APR 2022

**PLAN AND PROFILES:-
SECONDARY MAIN PIPES**

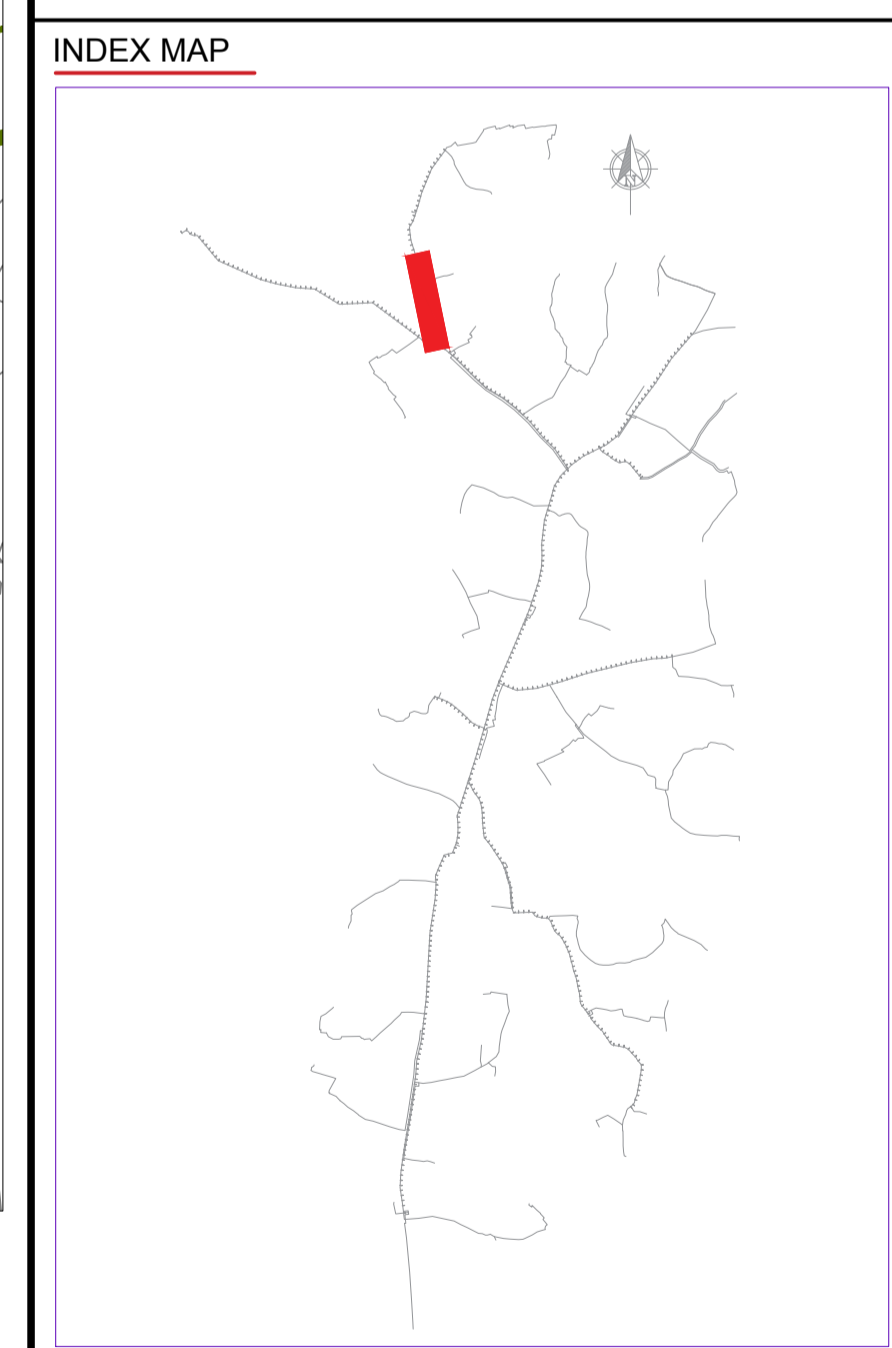
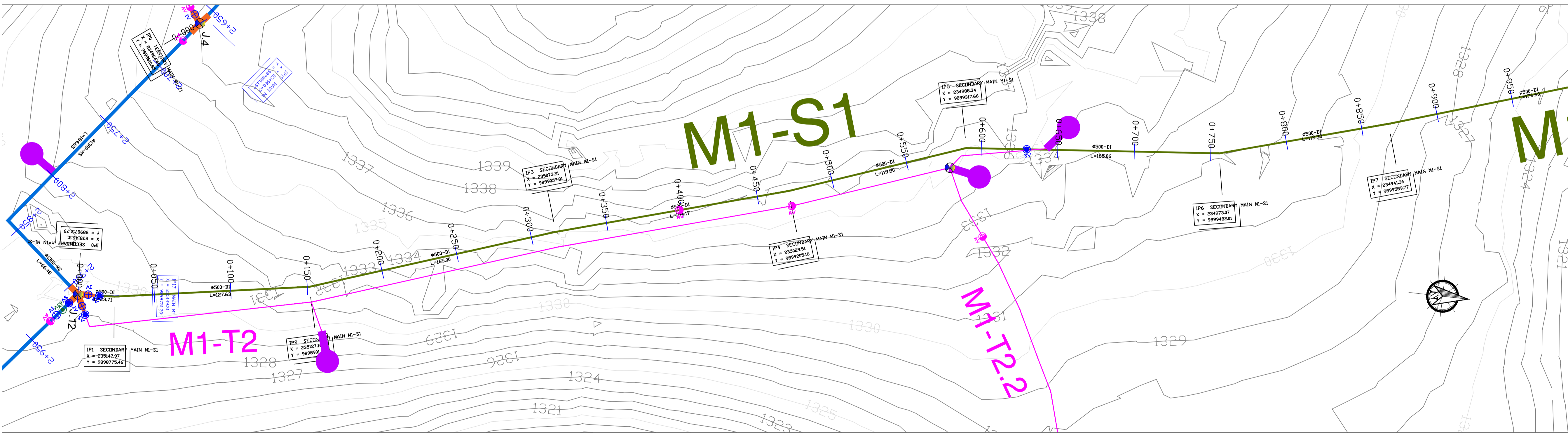


1:100/1:1000 sheet 1
SECONDARY MAIN M1-S1

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

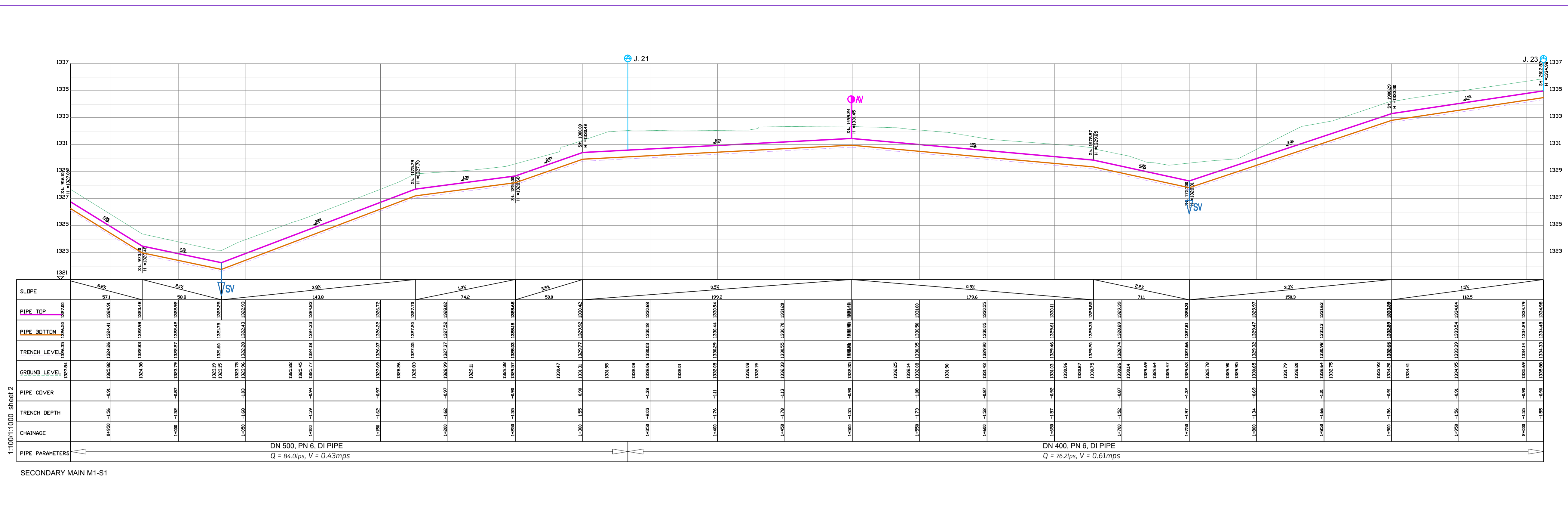
Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
SECONDARY MAIN M1-S1**

Consultants: **aarvee associates**
aarchitects-engineers-consultants-pvt-ltd-6
Ravala Residency, Shreegar Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33739333 Fax: +91-40-33739377
e-mail: irrigation@aarvee.net web: www.aarvee.net

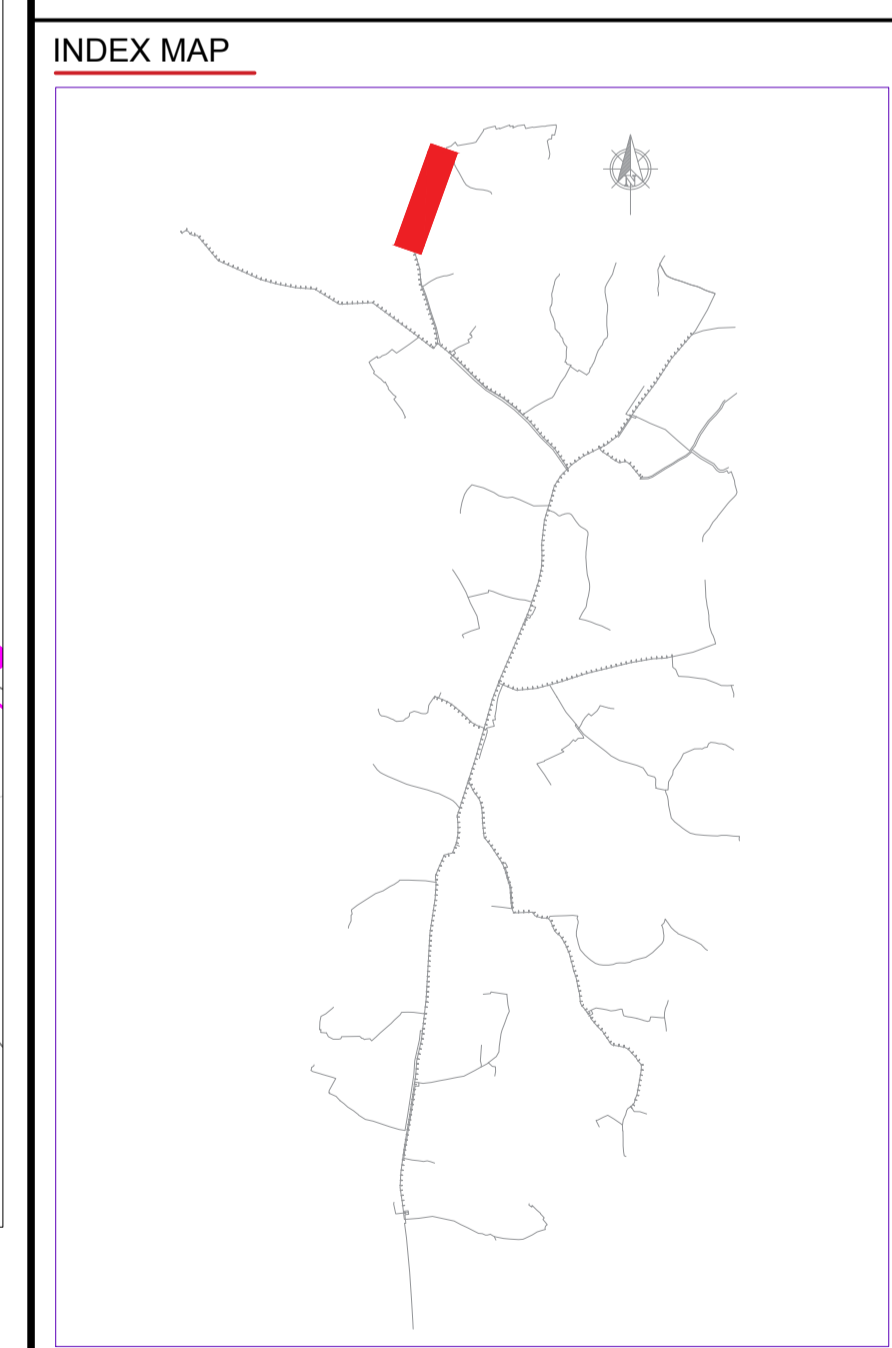
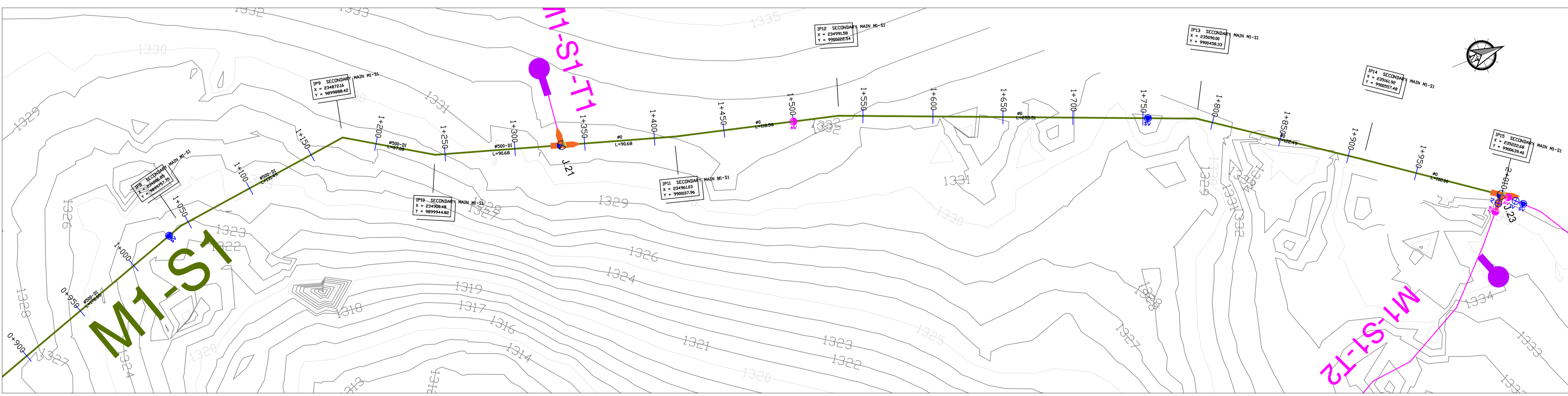
DRG. NO: MWE-KIS-NET-PP/M1-S1-01 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

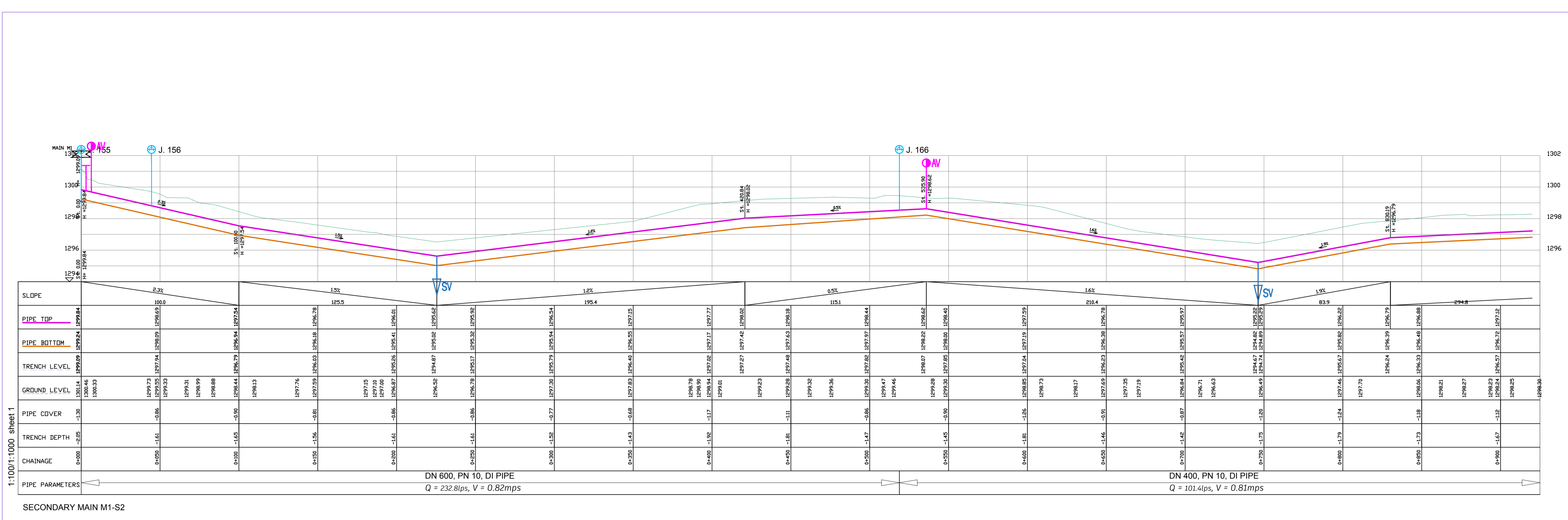
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
SECONDARY MAIN M1-S1

Consultants: **aarvee associates**
architects engineers consultants pvt.ltd. S.
Ravula Residency, Shreejaya Main Rd., Hyderabad 62, India
Tel: +91-40-33376333 Fax: +91-40-33376077
e-mail: irrigation@aarvee.net web: www.aarvee.net

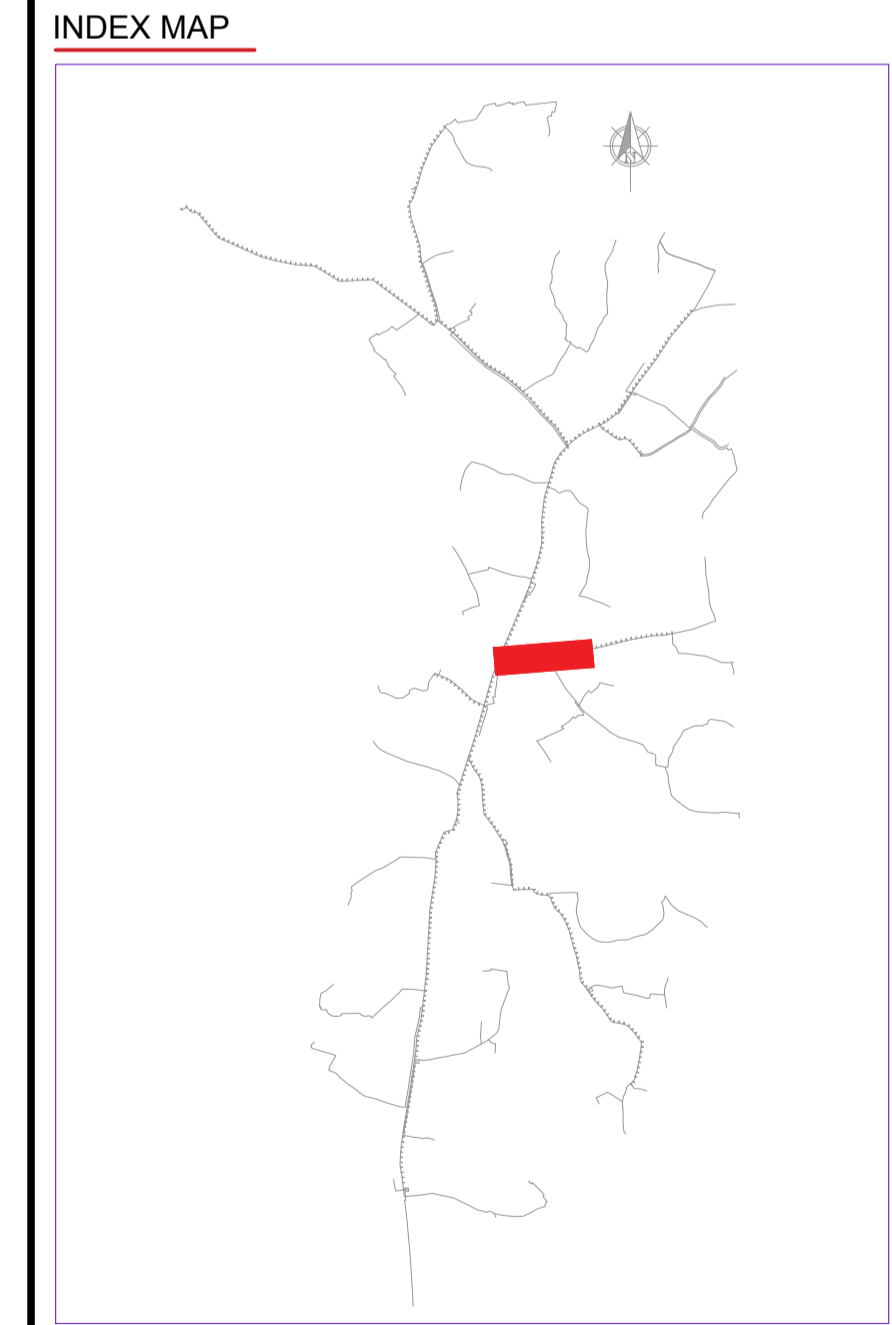
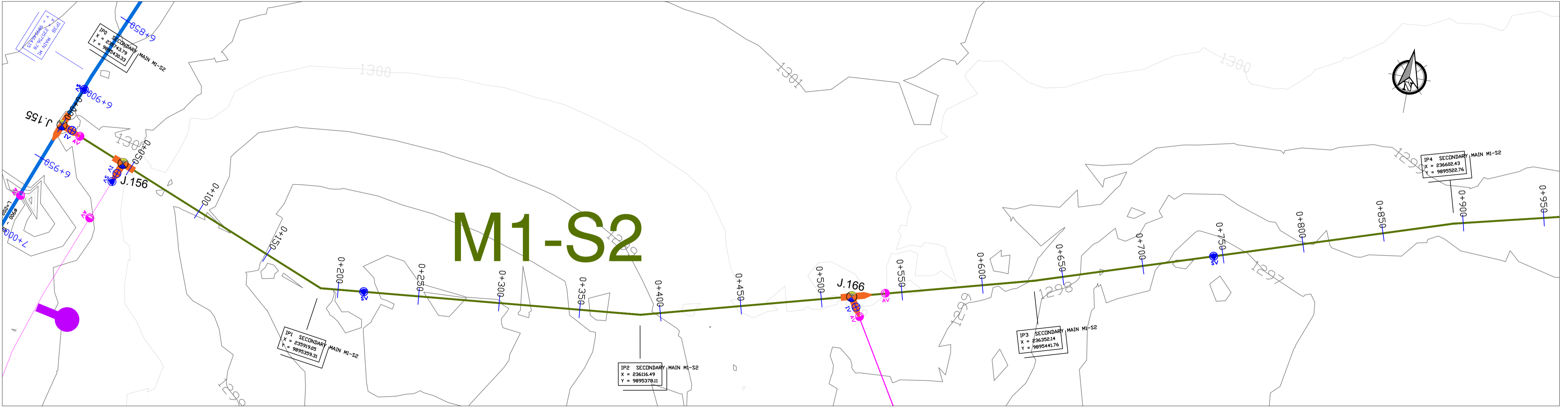
DRG. NO: MWE-KIS-NET-PPM1-S1-02 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE T-JUNCTION On Plan View
- PIPE CROSS-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Plan View
- BLOCK HYDRANT

- NOTES**
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

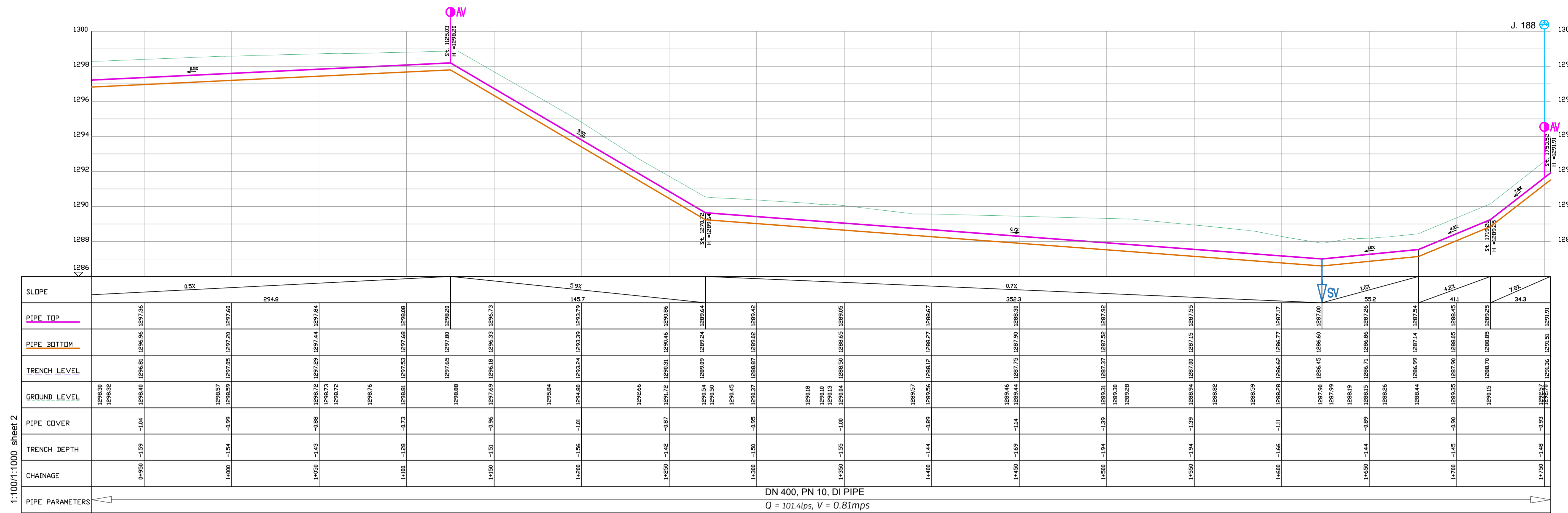
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
SECONDARY MAIN M1-S2**

Consultants: **aarvee associates**
aarchitects engineers consultants Pvt. Ltd. S.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33379333 Fax: +91-402219077
e-mail: irrigation@aarvee.net web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPIM1-S2-01 Date: APR 2022



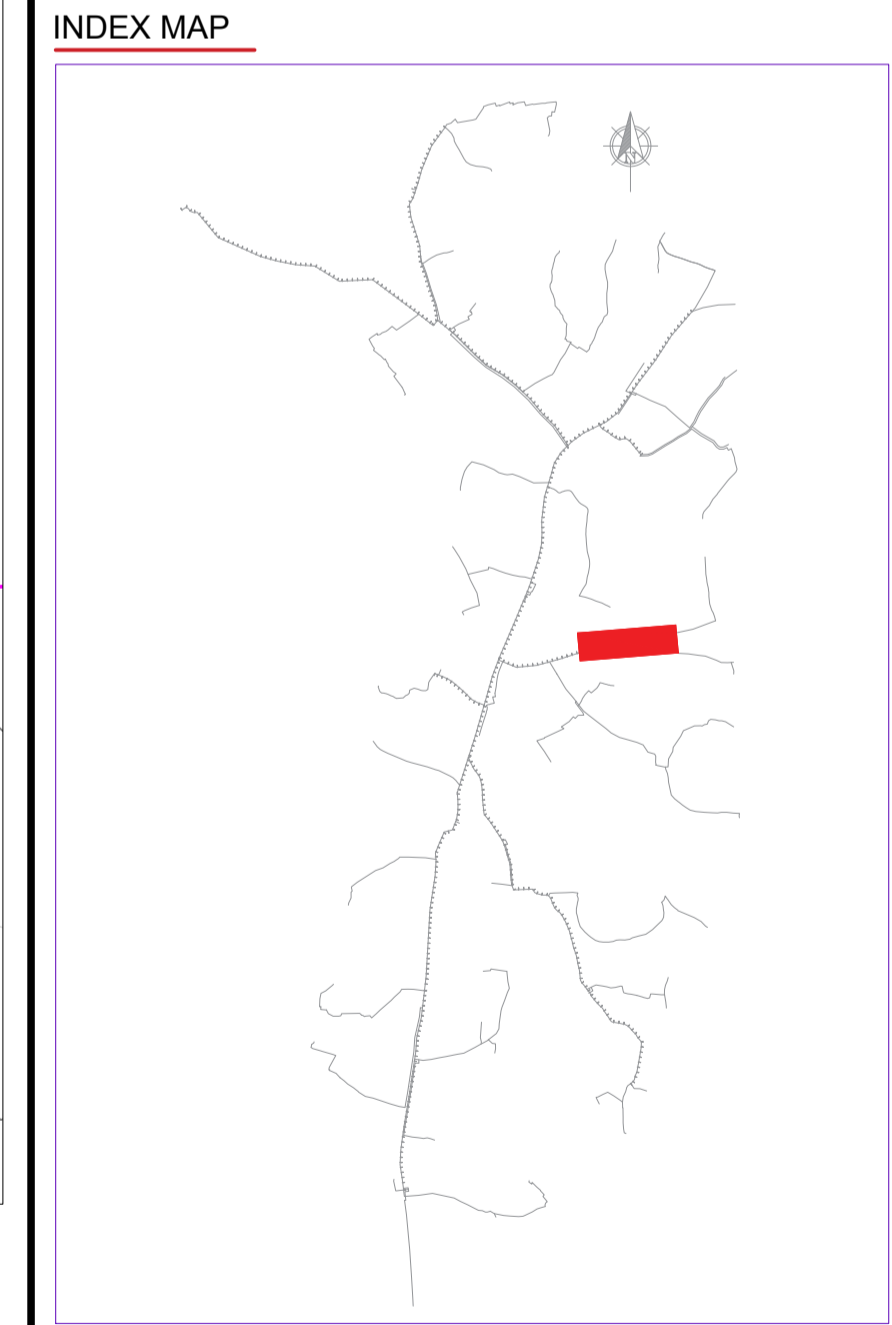
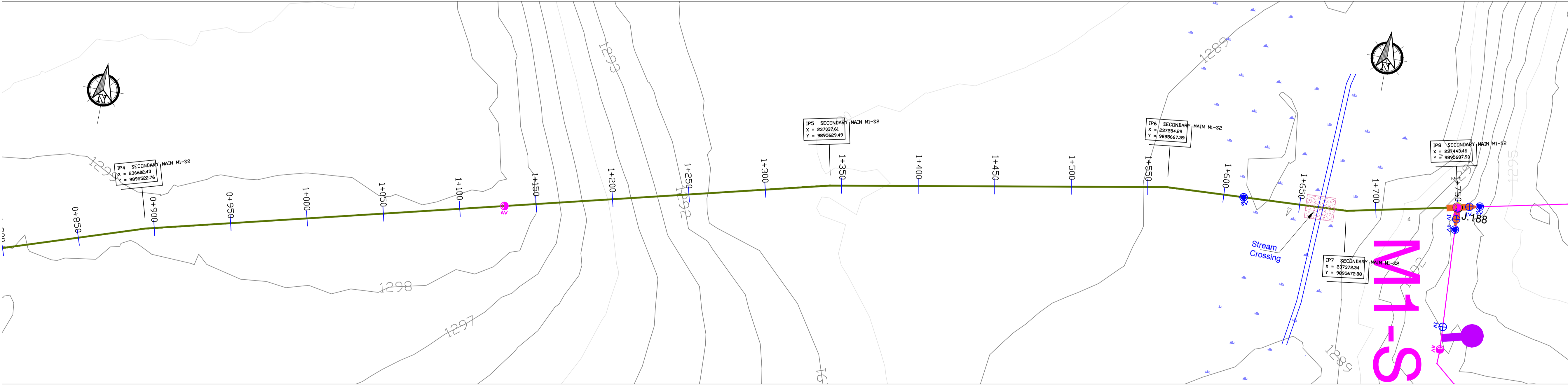
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SECONDARY MAIN M1-S2

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

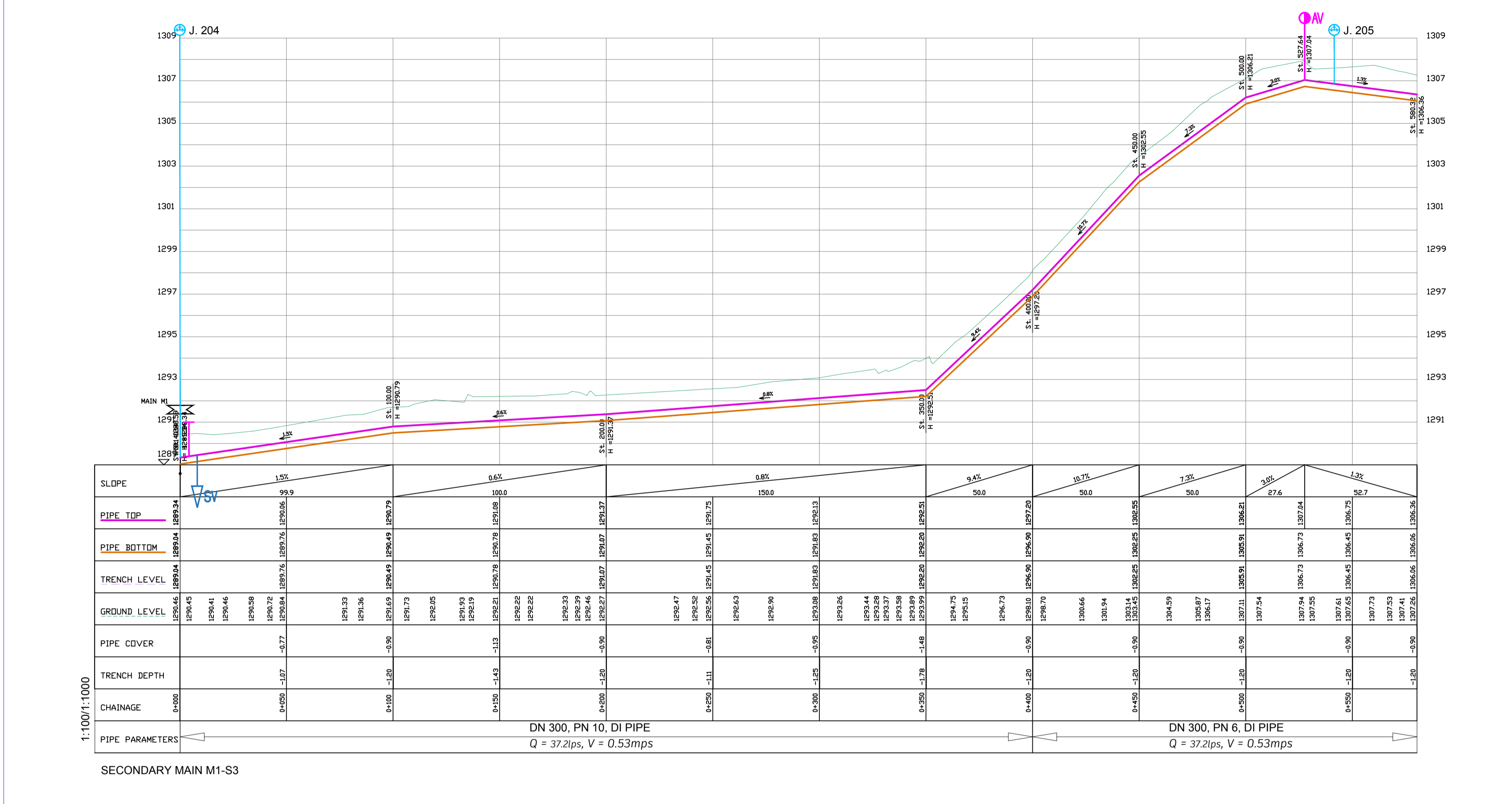
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
SECONDARY MAIN M1-S2

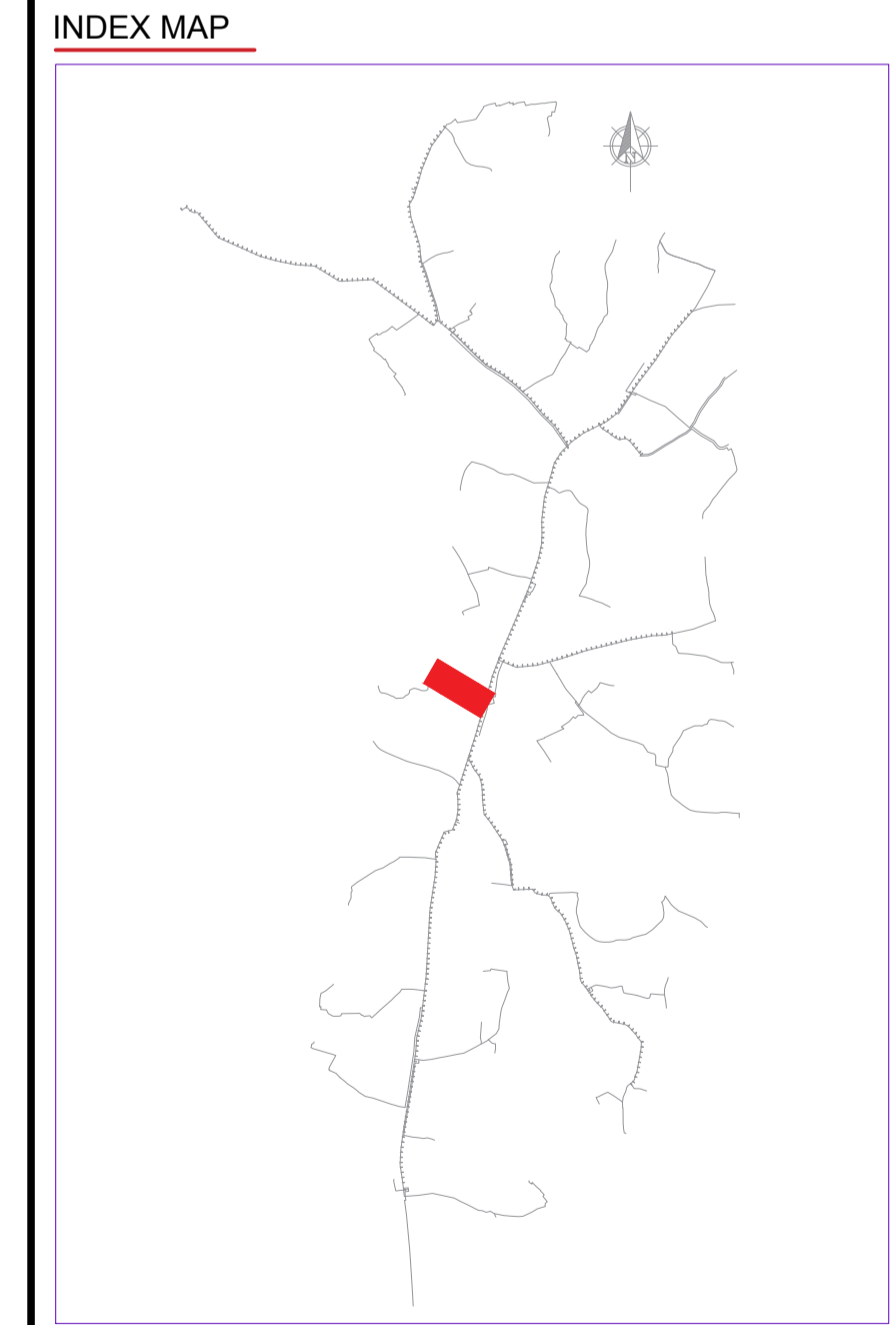
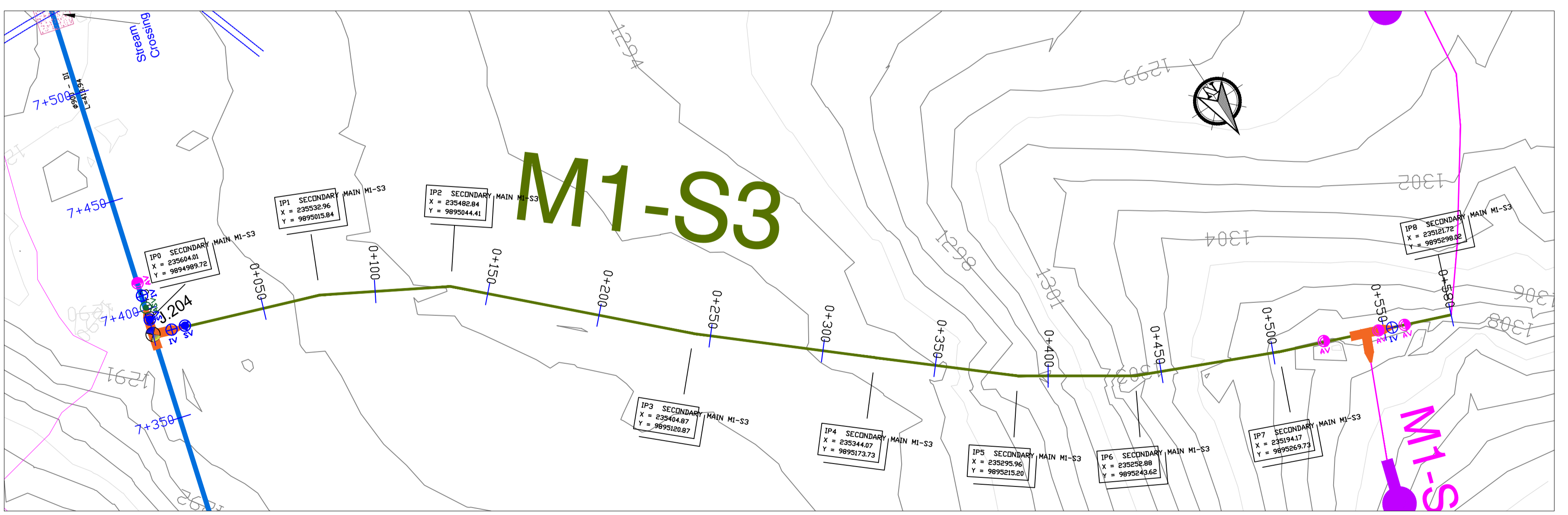
Consultants: **aarvee associates**
aarevee associates consultants pvt.ltd. S.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad 62, India
Tel: +91-40-3379333 Fax: +91-40-3379377
e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPM1-S2-02 Date: APR 2022



- LEGEND**
- GROUND LEVEL
 - PIPE TOP
 - PIPE BOTTOM
 - TRENCH BOTTOM
 - JUNCTION LOCATIONS
 - AIR VALVE On Profile View
 - AIR VALVE On Plan View
 - SCOUR VALVE On Profile View
 - SCOUR VALVE On Plan View
 - ISOLATION VALVE On Profile View
 - ISOLATION VALVE On Plan View
 - ANTI-SURGE VALVE On Profile View
 - ANTI-SURGE VALVE On Plan View
 - PIPE T-JUNCTION On Profile View
 - PIPE CROSS-JUNCTION On Profile View
 - BLOCK HYDRANT

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Scale: Horizontal 1 : 1000
Vertical 1 : 100

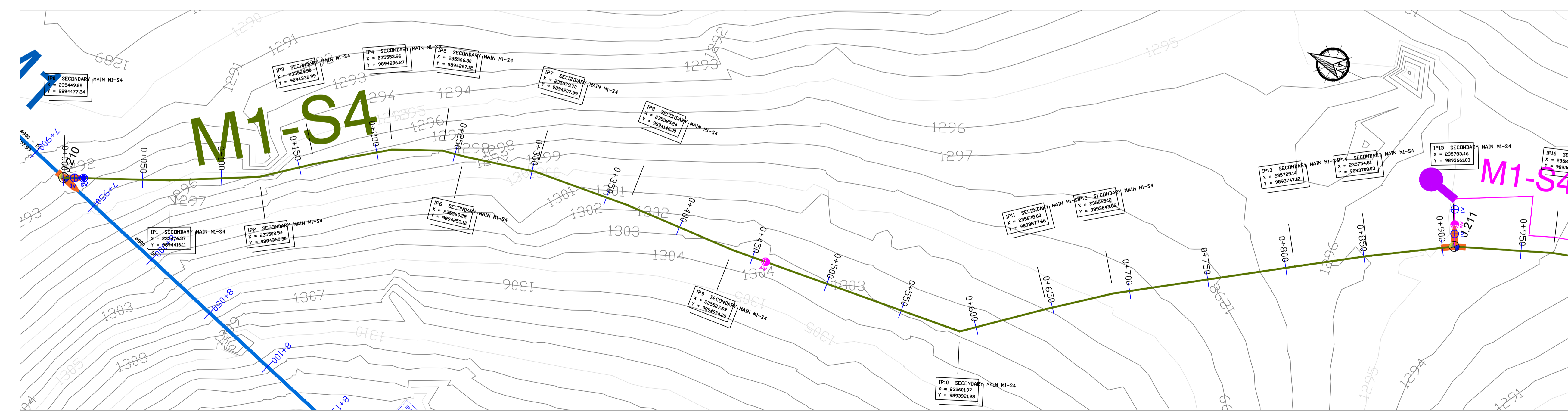
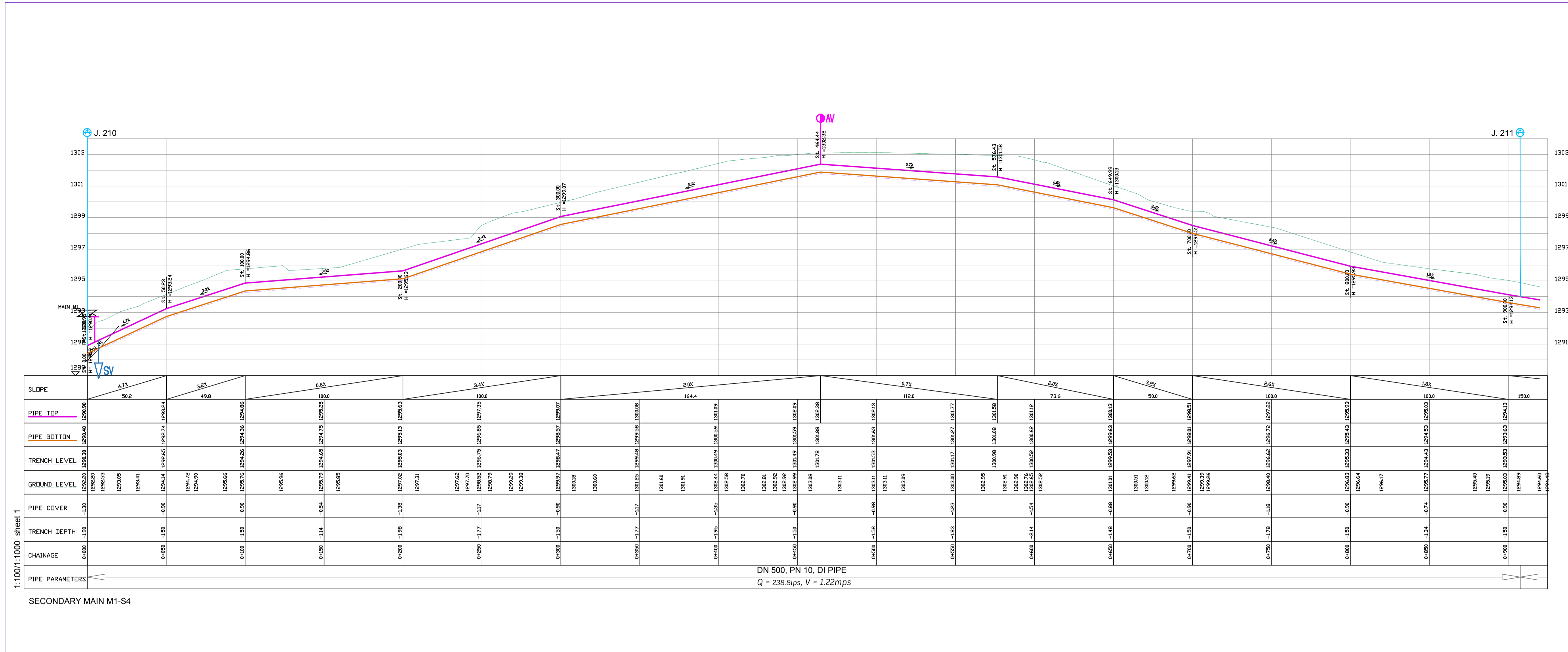
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
SECONDARY MAIN M1-S3**

Consultants: **arvee associates**
arvee associates consultants Pvt. Ltd. S.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@arvee.net web: www.arvee.net

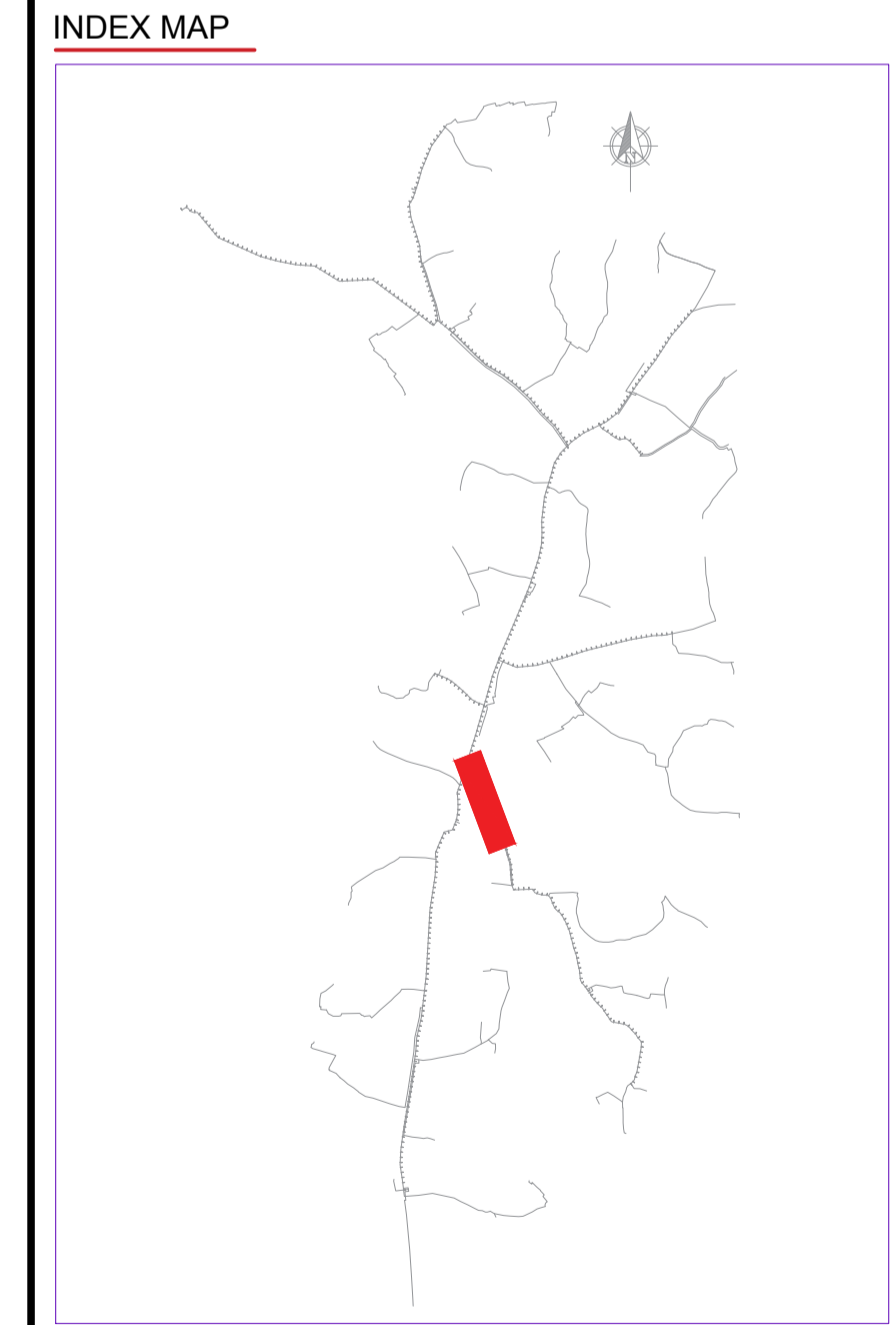
DRG. NO: MWE-KIS-NET-PPIM1-S3-01 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Scale: Horizontal 1: 1000
Vertical 1: 100

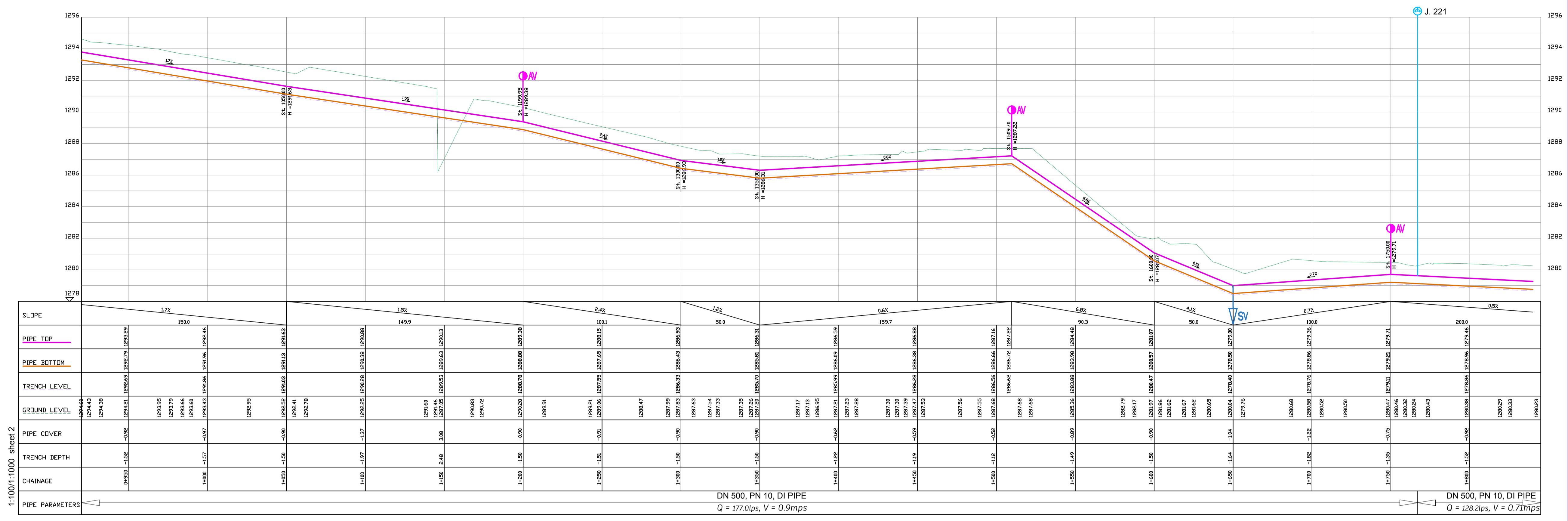
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
SECONDARY MAIN M1-S3

Consultants: **aarvee associates**
architects engineers consultants pvt.ltd. S.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33376333 Fax: +91-40-33376077
e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PP/M1-S4-01 Date: APR 2022



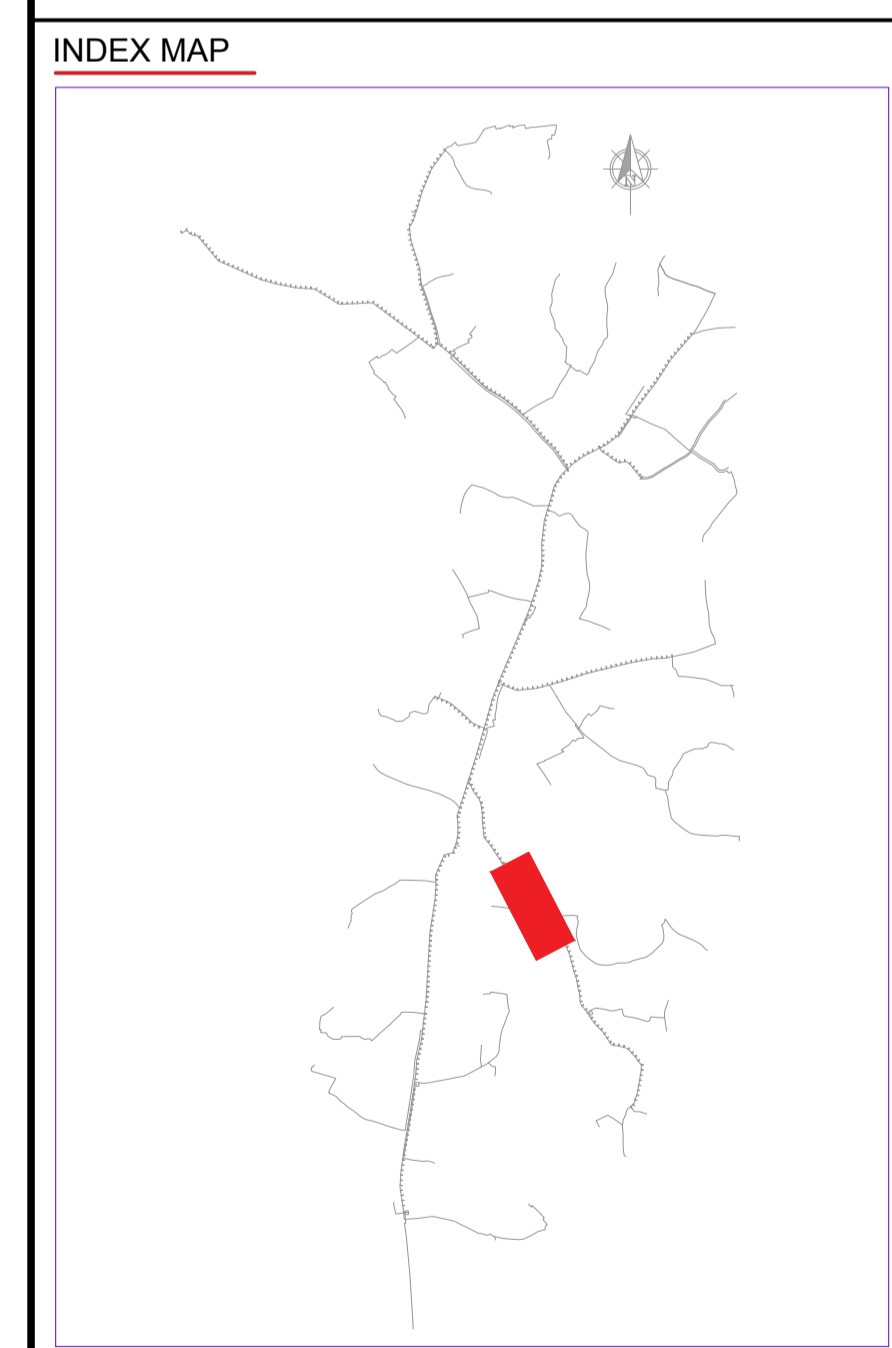
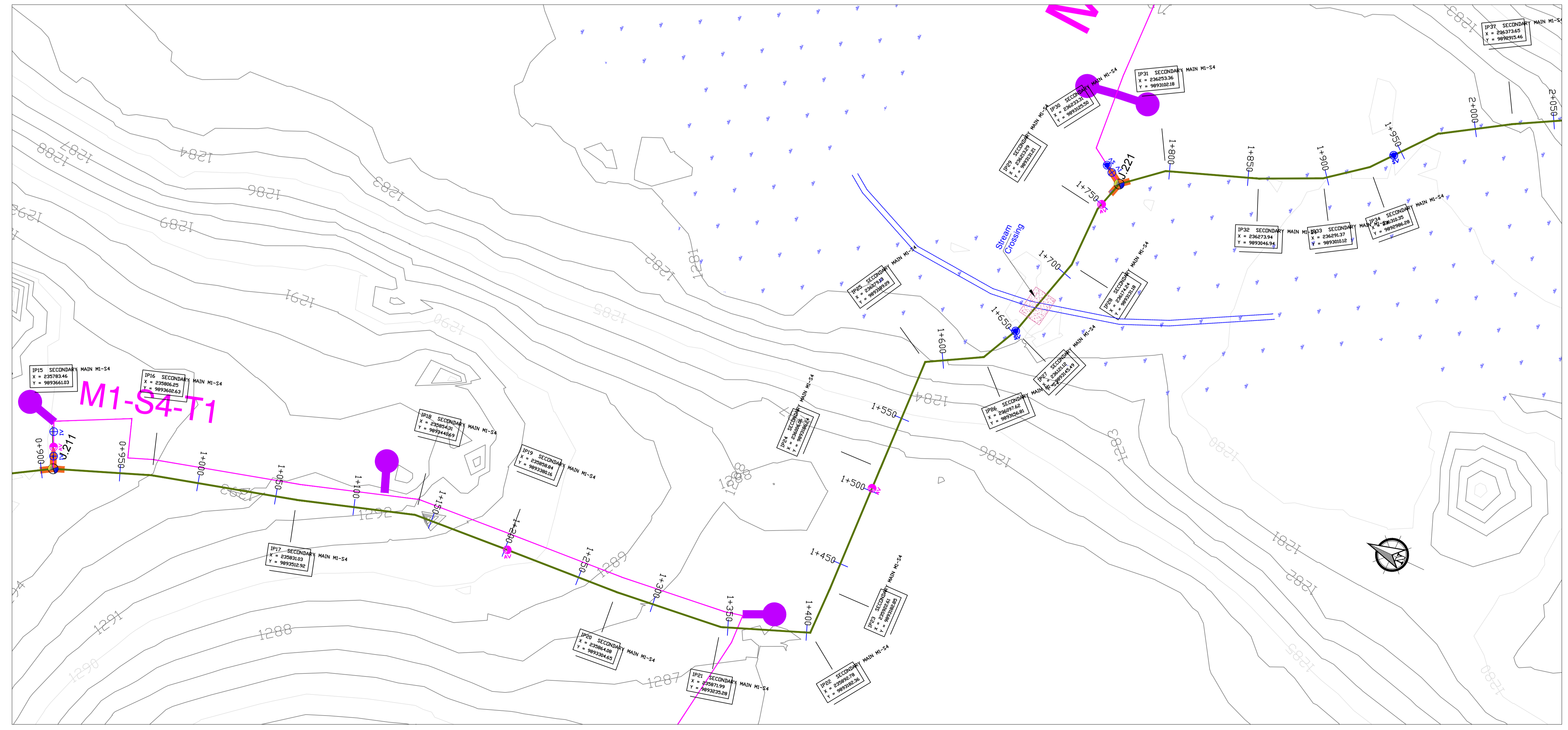
PIPE PARAMETERS	DN 500, PN 10, DI PIPE	DN 500, PN 10, DI PIPE
Q	177.0lps, V = 0.9mps	228.2lps, V = 0.7lmps

SECONDARY MAIN M1-S4

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000, Vertical 1 : 100

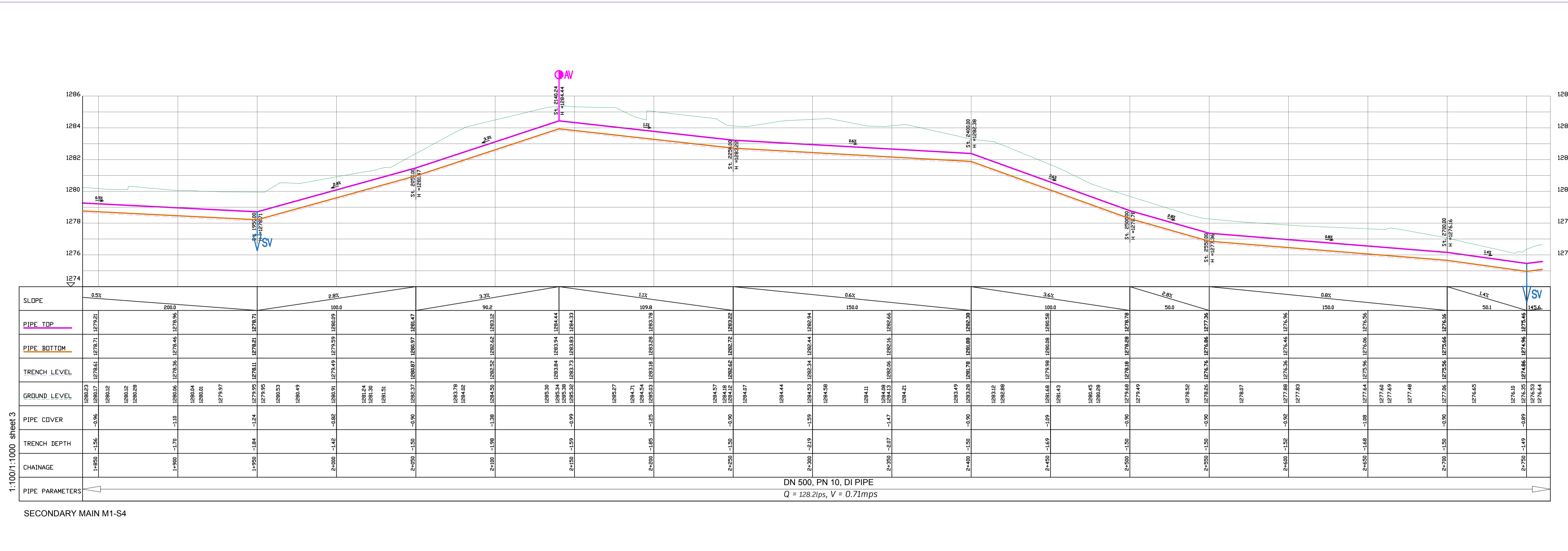
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
SECONDARY MAIN M1-S3

Consultants: **aarvee associates**
Ravula Roadside, Shivraj Colony Main Rd., Hyderabad 50, India
Tel: +91-40-3373933, Fax: +91-40-2219077, e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPM1-S4-02 Date: APR 2022

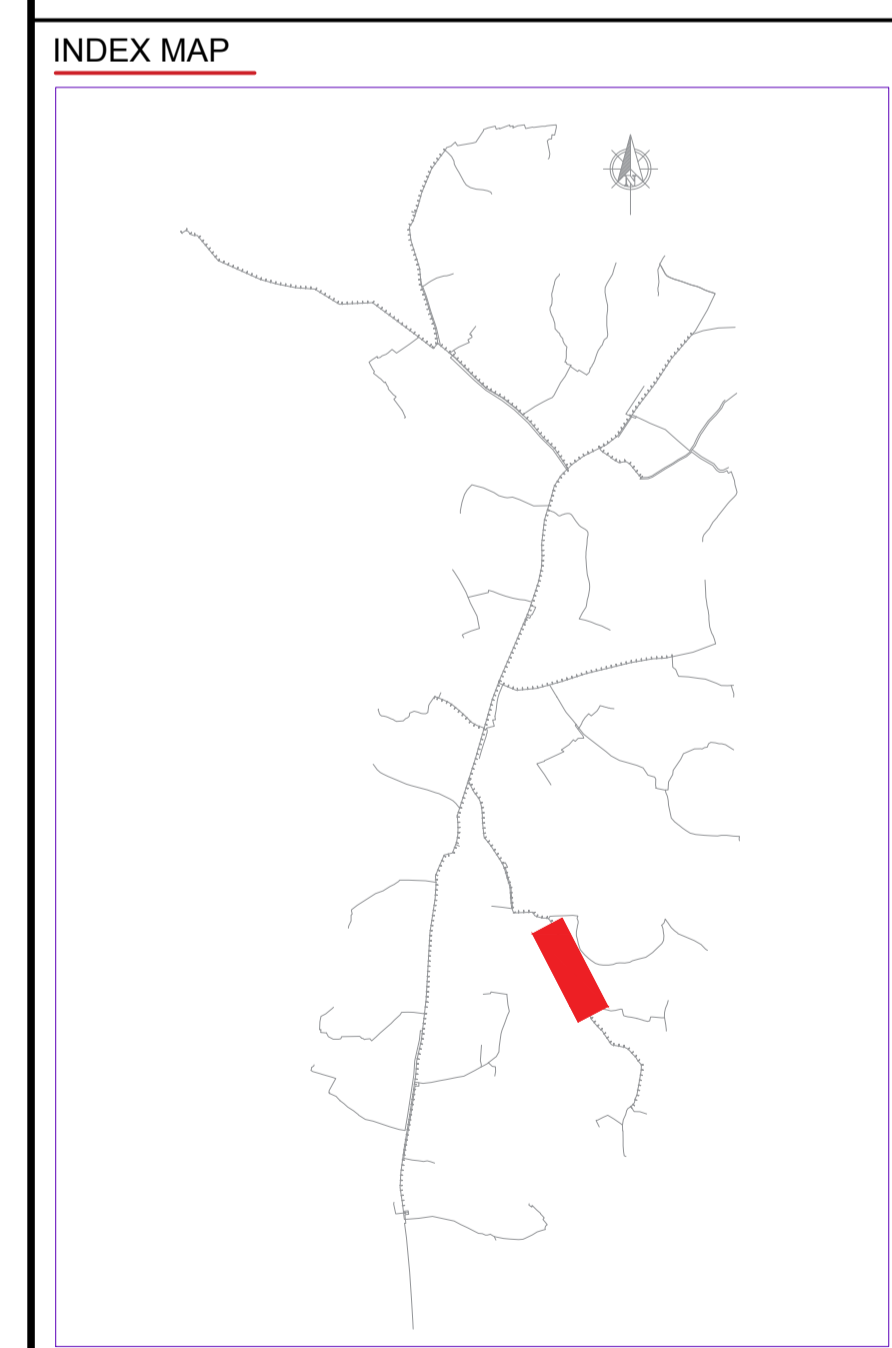
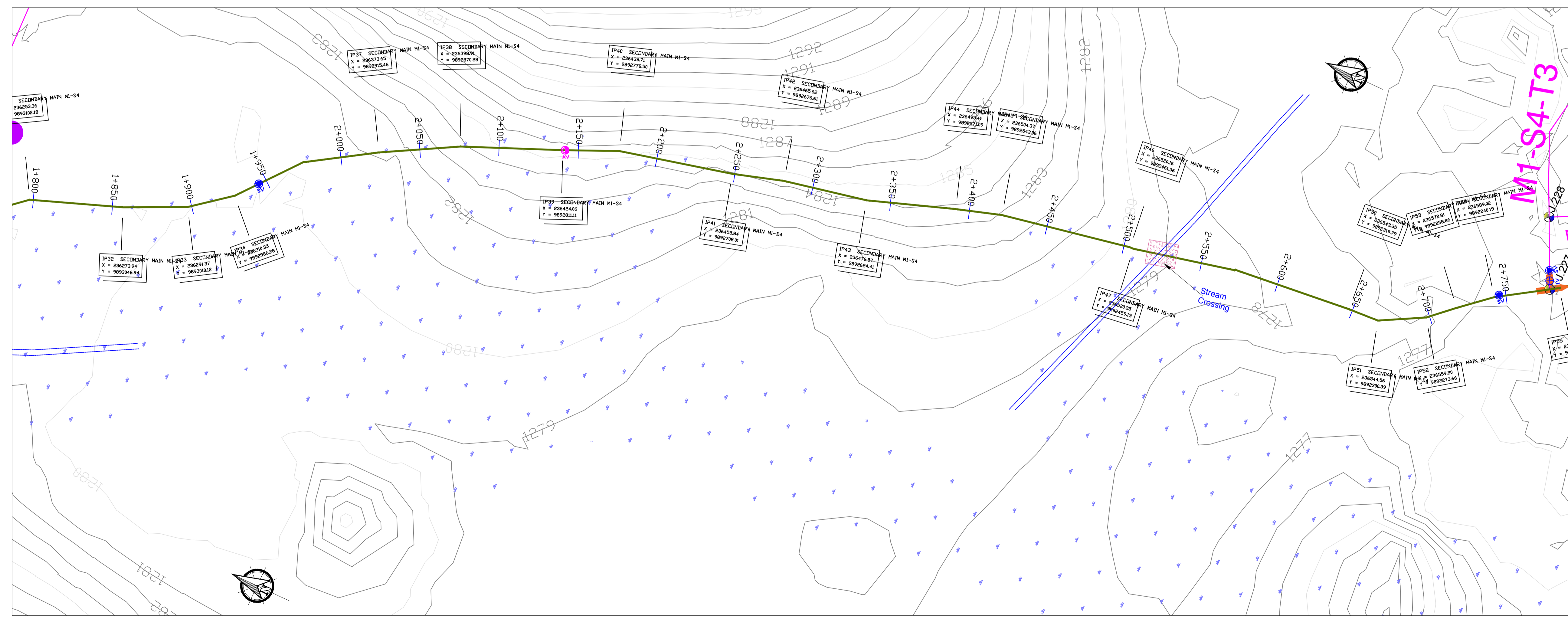


SECONDARY MAIN M1-S4

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

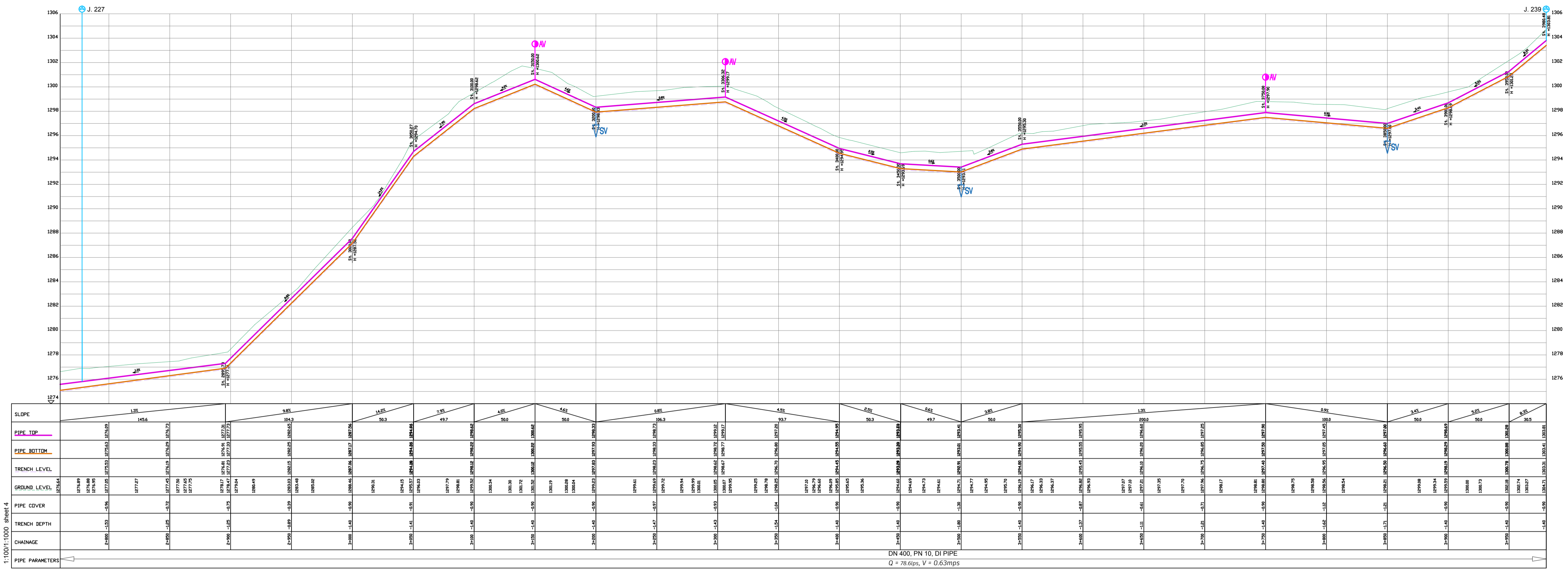
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
SECONDARY MAIN M1-S3

Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PP/M1-S4-03 Date: APR 2022

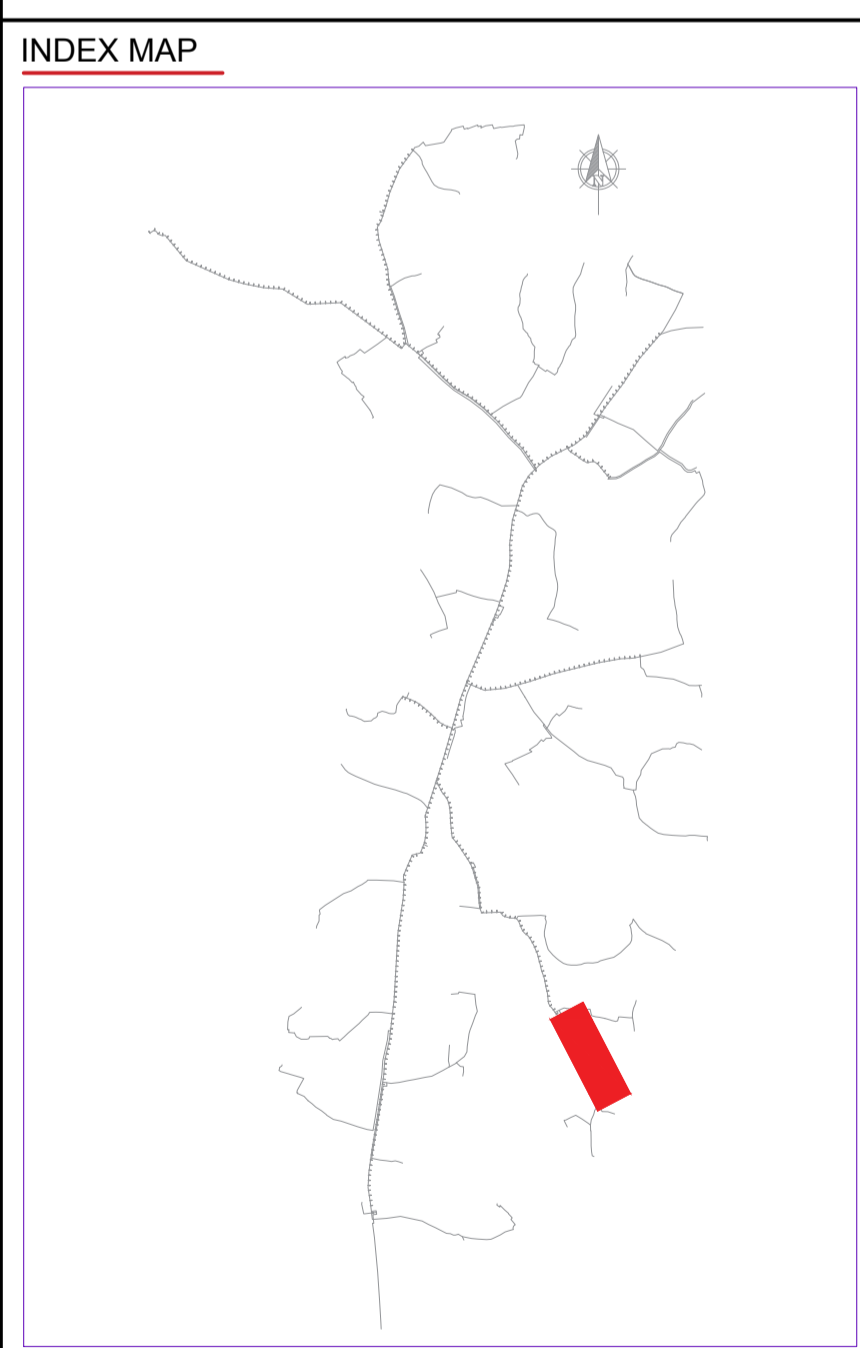
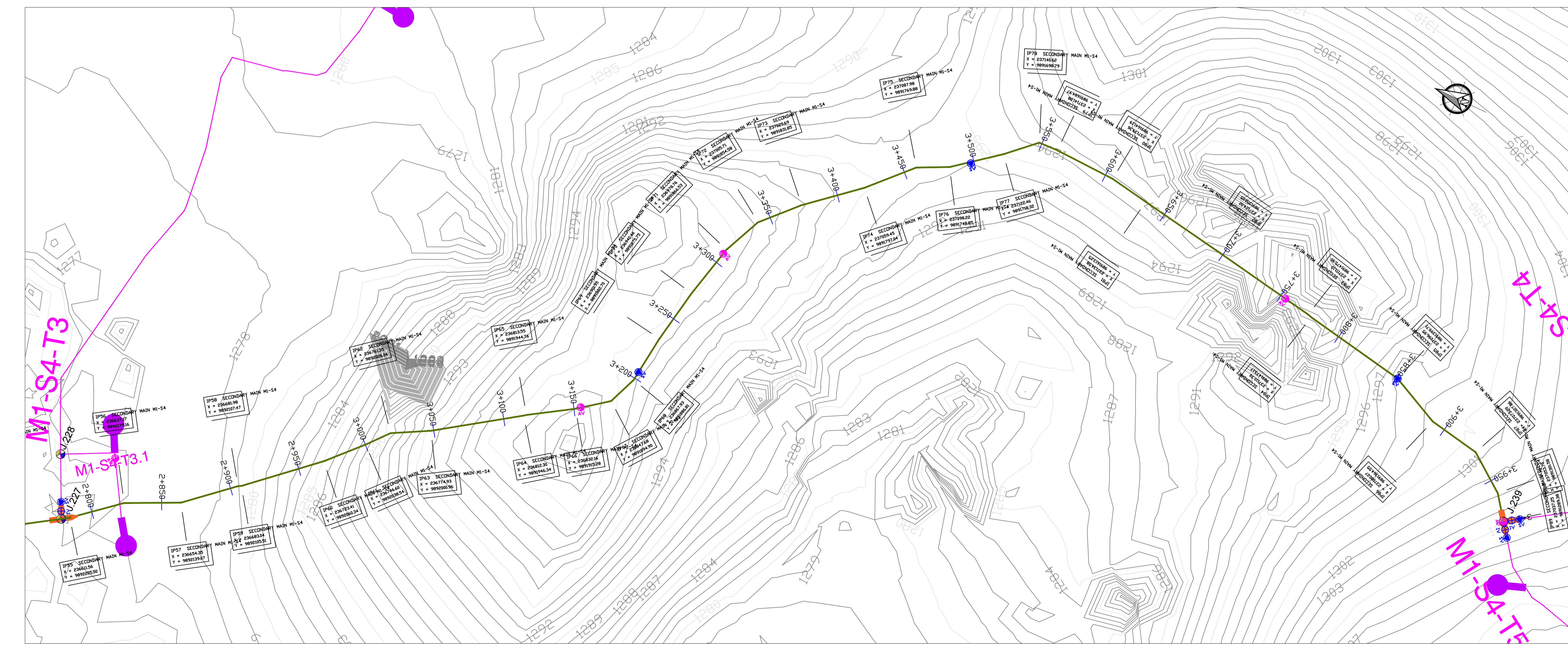


1:1000/1000 sheet 4
 SECONDARY MAIN M1-S4
 DN 400, PN 10, DI PIPE
 Q = 78.6lps, V = 0.63mps

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Scale: Horizontal 1 : 1000
 Vertical 1 : 100

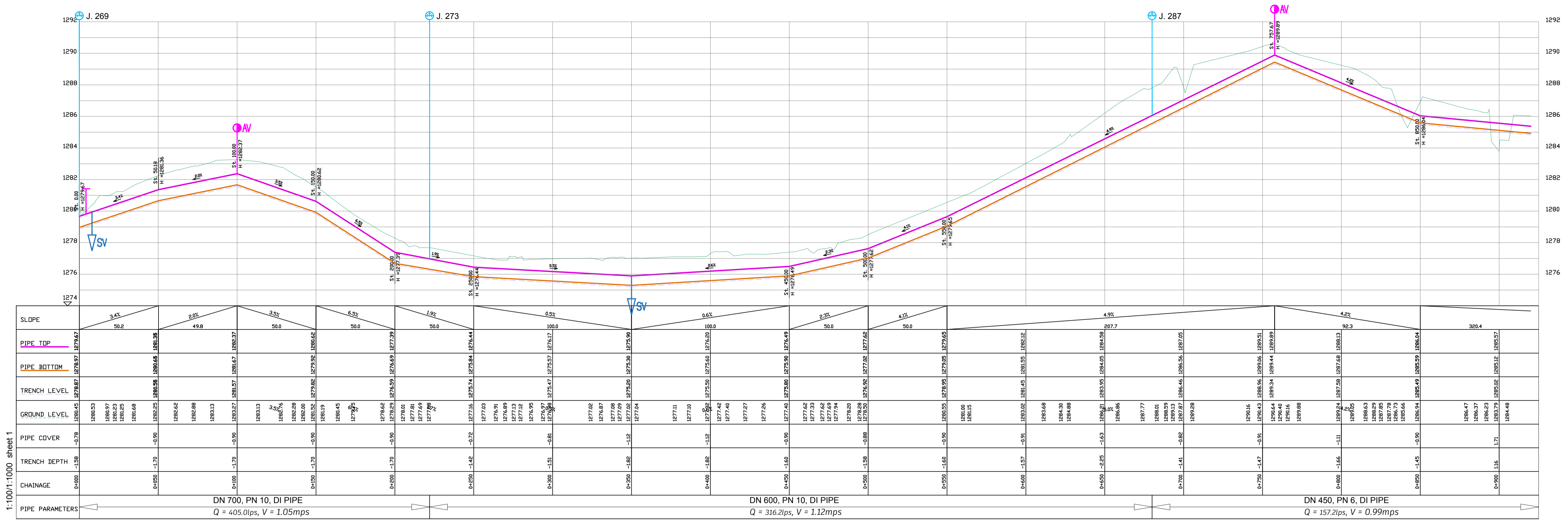
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
SECONDARY MAIN M1-S3

Consultants: **aarvee associates**
 architects, engineers, consultants, pvt. ltd.
 Ravula Residency, Shreegar Colony Main Rd., Hyderabad 62, India
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 e-mail: info@aarvee.net, web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PP/M1-S4-03 Date: APR 2022

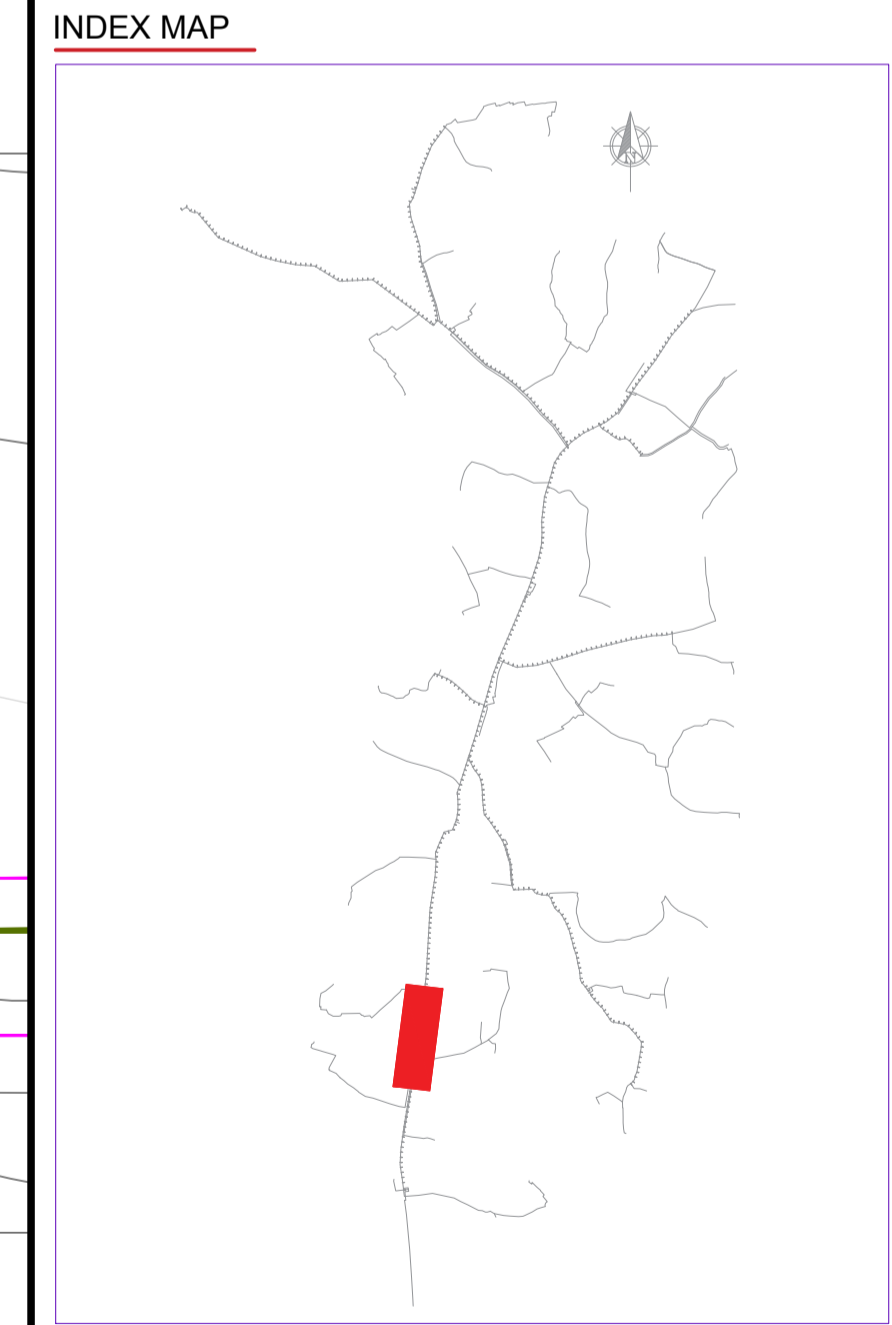
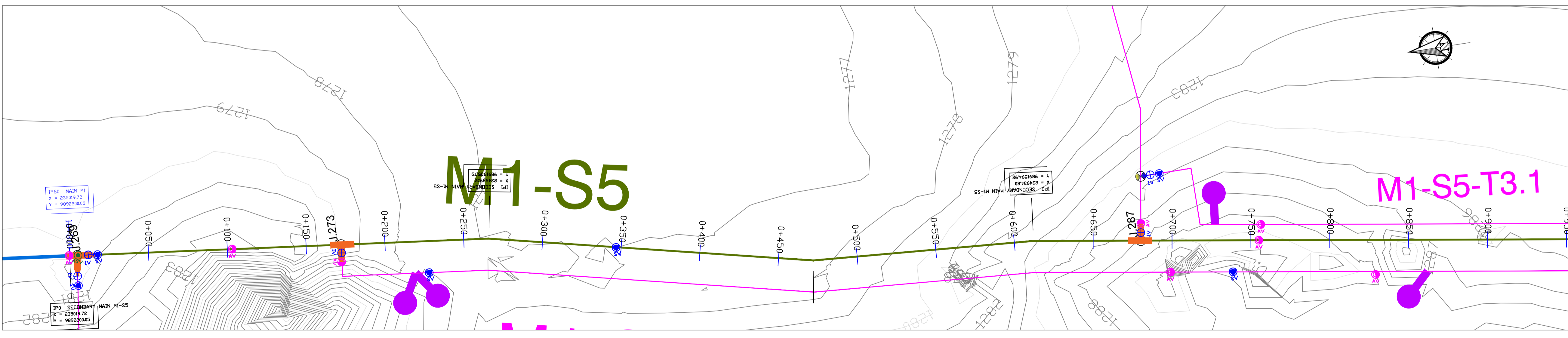


1:1000/1:1000 sheet 1
SECONDARY MAIN M1-S5

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
 - REFER TO AUXILIARY WORKS DRAWINGS FOR ANCHORAGE TO PIPELINES, AIR VALVES DETAILS, PIPE PEDESTALS, PULLEY SUPPORT, TRENCH DETAILS, VALVE CHAMBERS, WASHOUT CHAMBERS AND WATER METERS.
 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
SECONDARY MAIN M1-S3

Consultants: **arvee associates**
arvee associates consultants pvt.ltd
Ravula Residency, Shreejaya Main Rd., Hyderabad 62, India
Tel: +91-40-33376333 Fax: +91-40-33376077
e-mail: irrigation@arvee.net, web: www.arvee.net

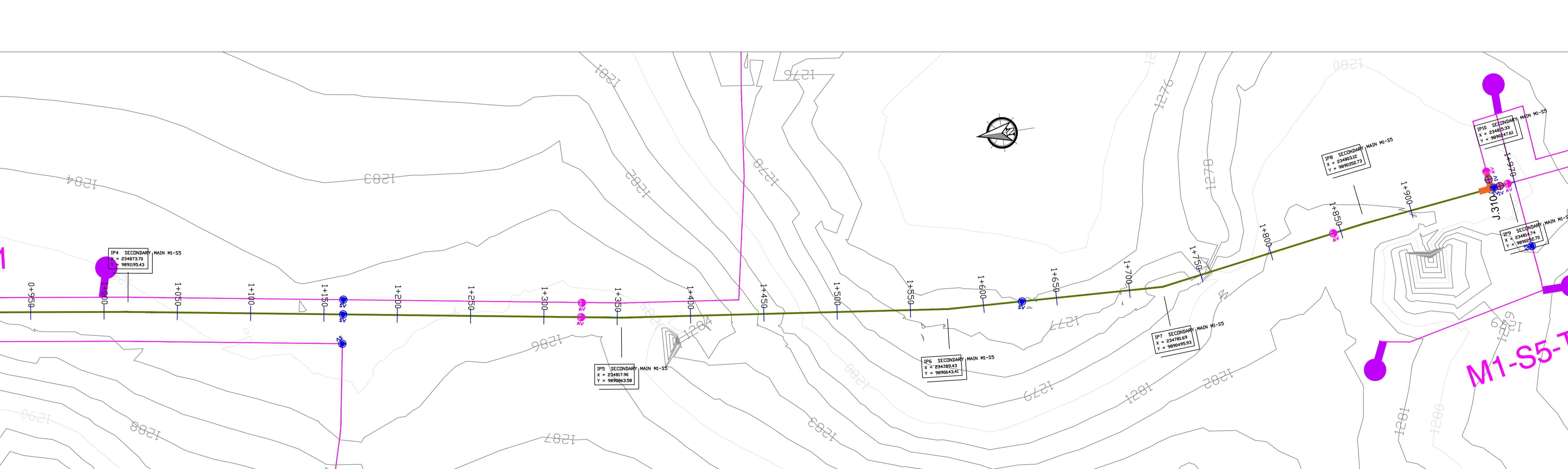
DRG. NO: MWE-KIS-NET-PP/M1-S4-03 Date: APR 2022



STATION	PIPE TOP	PIPE BOTTOM	TRENCH LEVEL	GROUND LEVEL	PIPE COVER	TRENCH DEPTH	CHAINAGE
0+000	1285.79	1285.59	1284.54	1285.52	0.20	-1.02	0+000
0+050	1285.75	1285.55	1284.50	1285.48	0.20	-1.02	0+050
0+100	1285.71	1285.51	1284.46	1285.44	0.20	-1.02	0+100
0+150	1285.67	1285.47	1284.42	1285.40	0.20	-1.02	0+150
0+200	1285.63	1285.43	1284.38	1285.36	0.20	-1.02	0+200
0+250	1285.59	1285.39	1284.34	1285.32	0.20	-1.02	0+250
0+300	1285.55	1285.35	1284.30	1285.28	0.20	-1.02	0+300
0+350	1285.51	1285.31	1284.26	1285.24	0.20	-1.02	0+350
0+400	1285.47	1285.27	1284.22	1285.20	0.20	-1.02	0+400
0+450	1285.43	1285.23	1284.18	1285.16	0.20	-1.02	0+450
0+500	1285.39	1285.19	1284.14	1285.12	0.20	-1.02	0+500
0+550	1285.35	1285.15	1284.10	1285.08	0.20	-1.02	0+550
0+600	1285.31	1285.11	1284.06	1285.04	0.20	-1.02	0+600
0+650	1285.27	1285.07	1284.02	1285.00	0.20	-1.02	0+650
0+700	1285.23	1285.03	1283.98	1284.96	0.20	-1.02	0+700
0+750	1285.19	1284.99	1283.94	1284.92	0.20	-1.02	0+750
0+800	1285.15	1284.95	1283.90	1284.88	0.20	-1.02	0+800
0+850	1285.11	1284.91	1283.86	1284.84	0.20	-1.02	0+850
0+900	1285.07	1284.87	1283.82	1284.80	0.20	-1.02	0+900
0+950	1285.03	1284.83	1283.78	1284.76	0.20	-1.02	0+950
1+000	1284.99	1284.79	1283.74	1284.72	0.20	-1.02	1+000
1+050	1284.95	1284.75	1283.70	1284.68	0.20	-1.02	1+050
1+100	1284.91	1284.71	1283.66	1284.64	0.20	-1.02	1+100
1+150	1284.87	1284.67	1283.62	1284.60	0.20	-1.02	1+150
1+200	1284.83	1284.63	1283.58	1284.56	0.20	-1.02	1+200
1+250	1284.79	1284.59	1283.54	1284.52	0.20	-1.02	1+250
1+300	1284.75	1284.55	1283.50	1284.48	0.20	-1.02	1+300
1+310	1284.71	1284.51	1283.46	1284.44	0.20	-1.02	1+310

DN 450, PN 10, DI PIPE
 Q = 157.2lps, V = 0.99mps

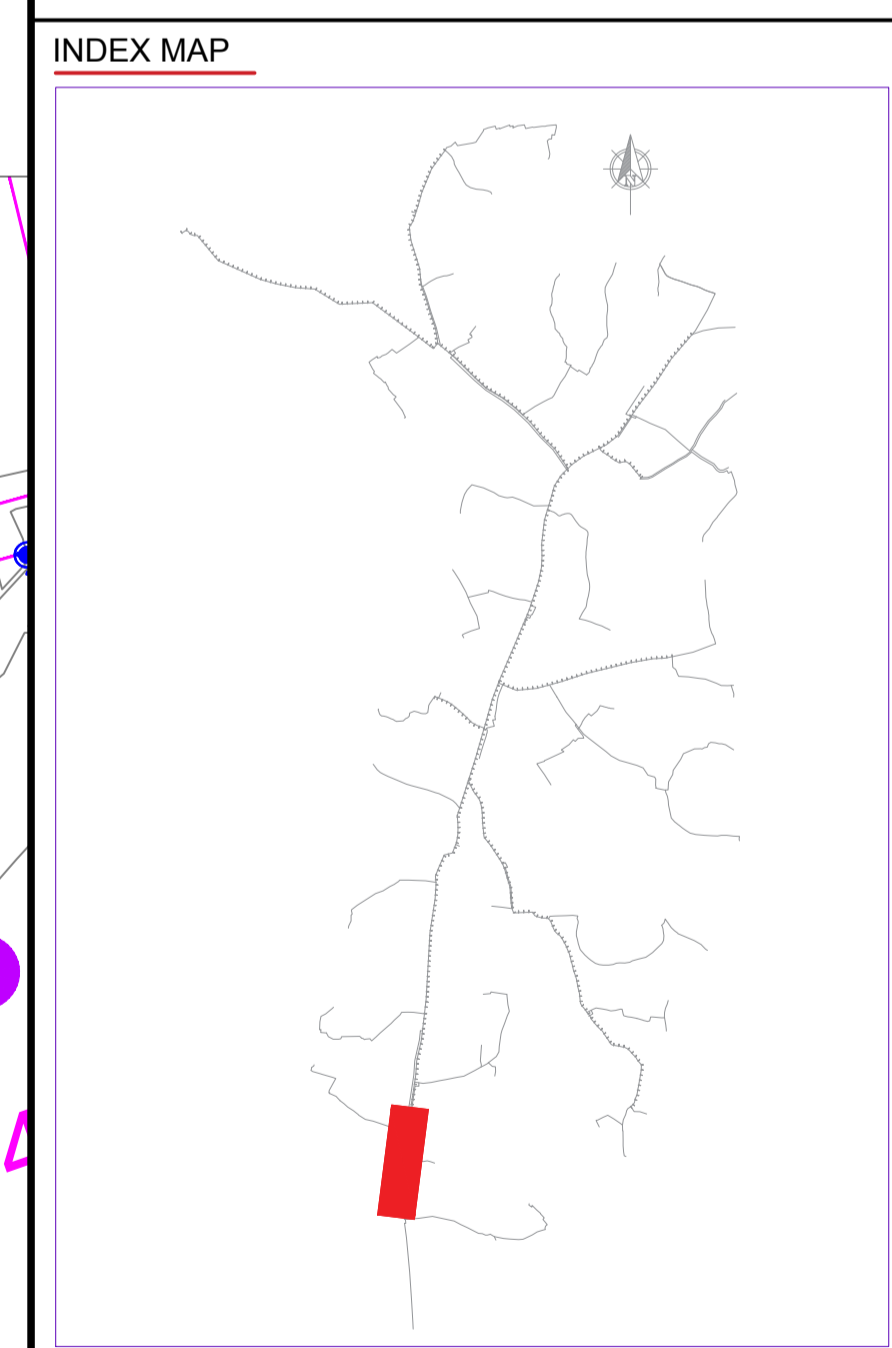
SECONDARY MAIN M1-S5



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



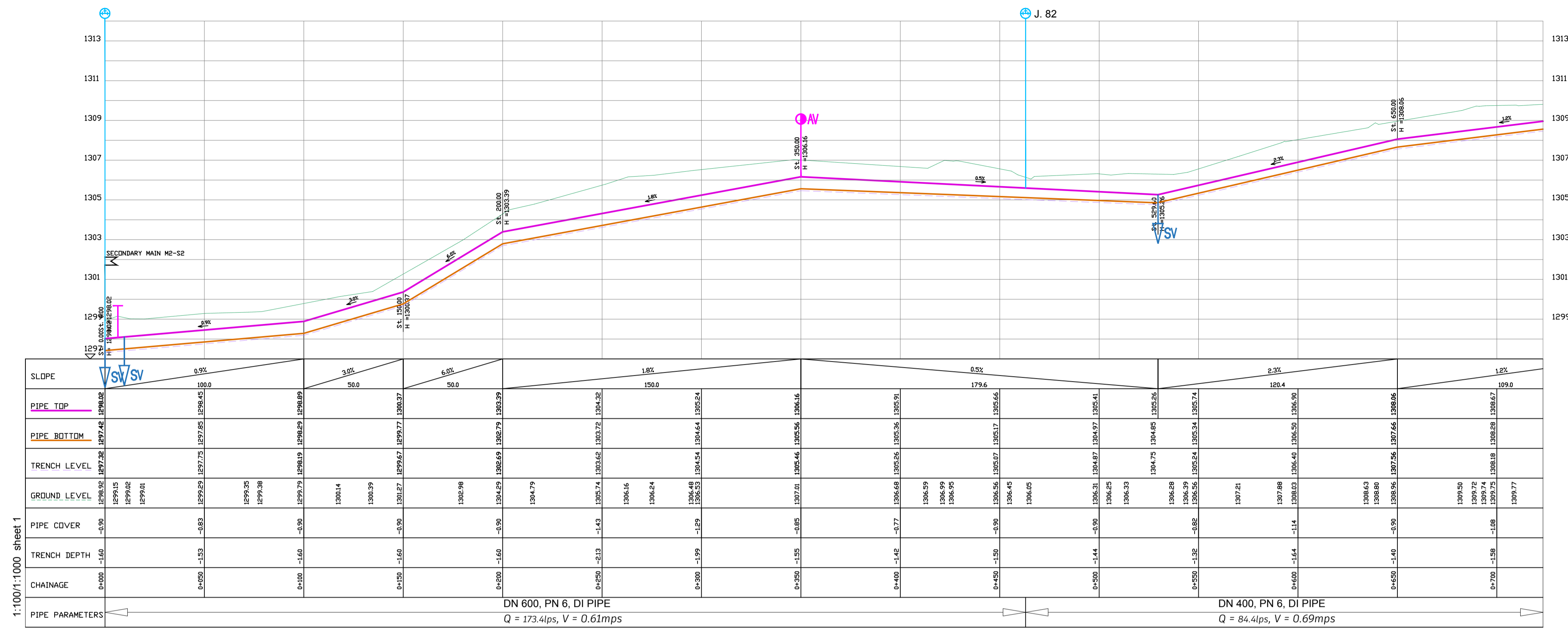
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 Vertical 1: 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
SECONDARY MAIN M1-S3

Consultants: **aarvee associates**
 architects, engineers, consultants pvt.ltd. S.
 Ravula Residency, Shree Colony Main Rd., Hyderabad 52, India
 Tel: +91-40-33376333 Fax: +91-402376077
 e-mail: irrigation@aarvee.net, web: www.aarvee.net

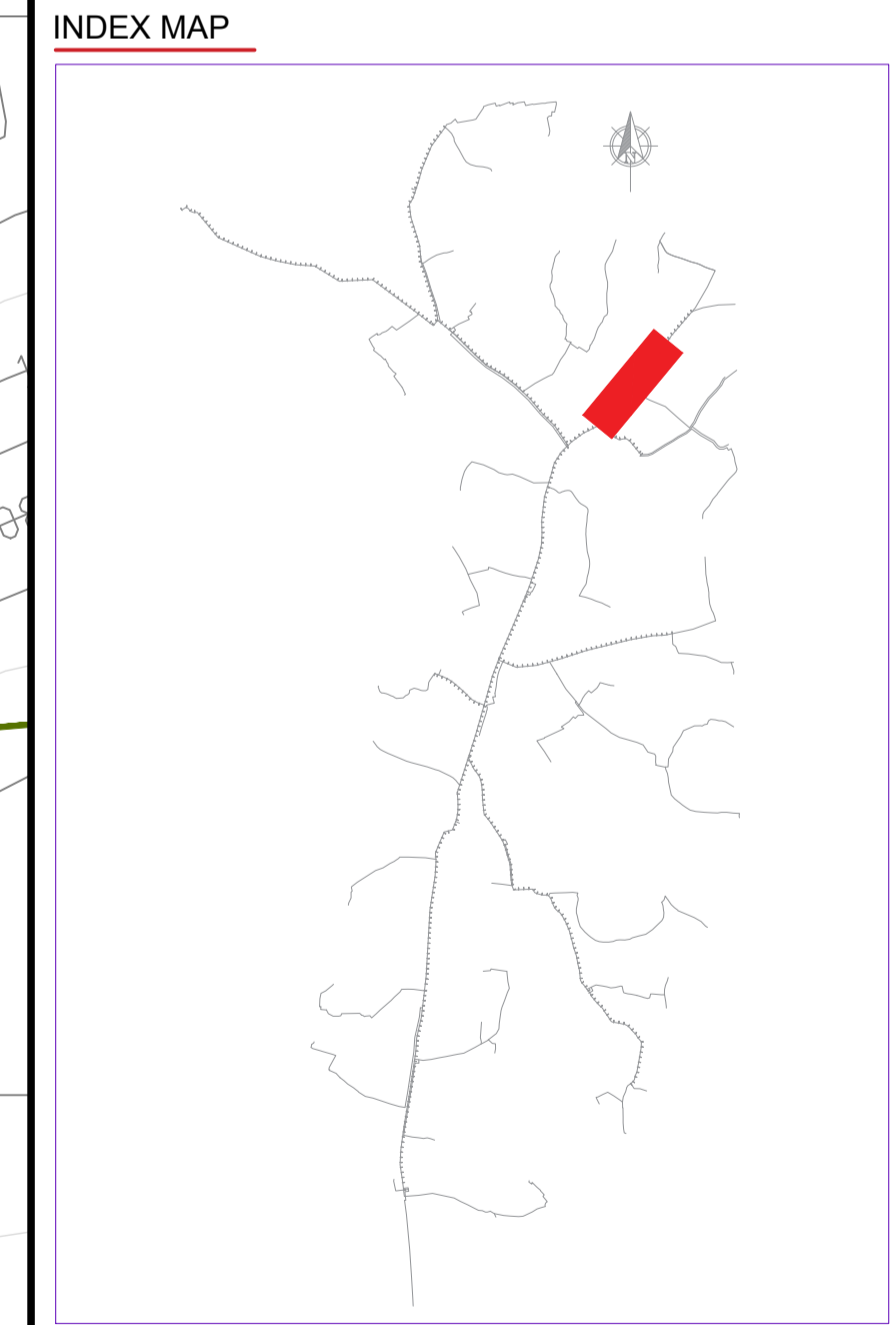
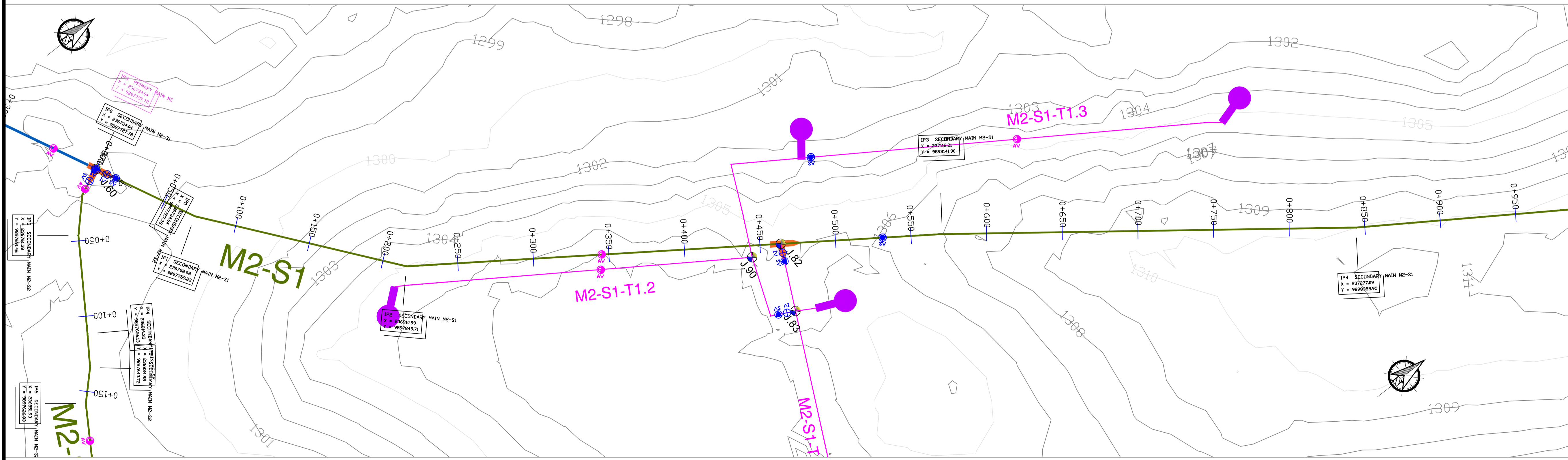


1:100/1:1000 sheet 1
 SECONDARY MAIN M2-S1
 DN 600, PN 6, DI PIPE
 Q = 173.4ps, V = 0.61mps
 DN 400, PN 6, DI PIPE
 Q = 84.4ps, V = 0.69mps

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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Scale: Horizontal 1 : 1000
 Vertical 1 : 100

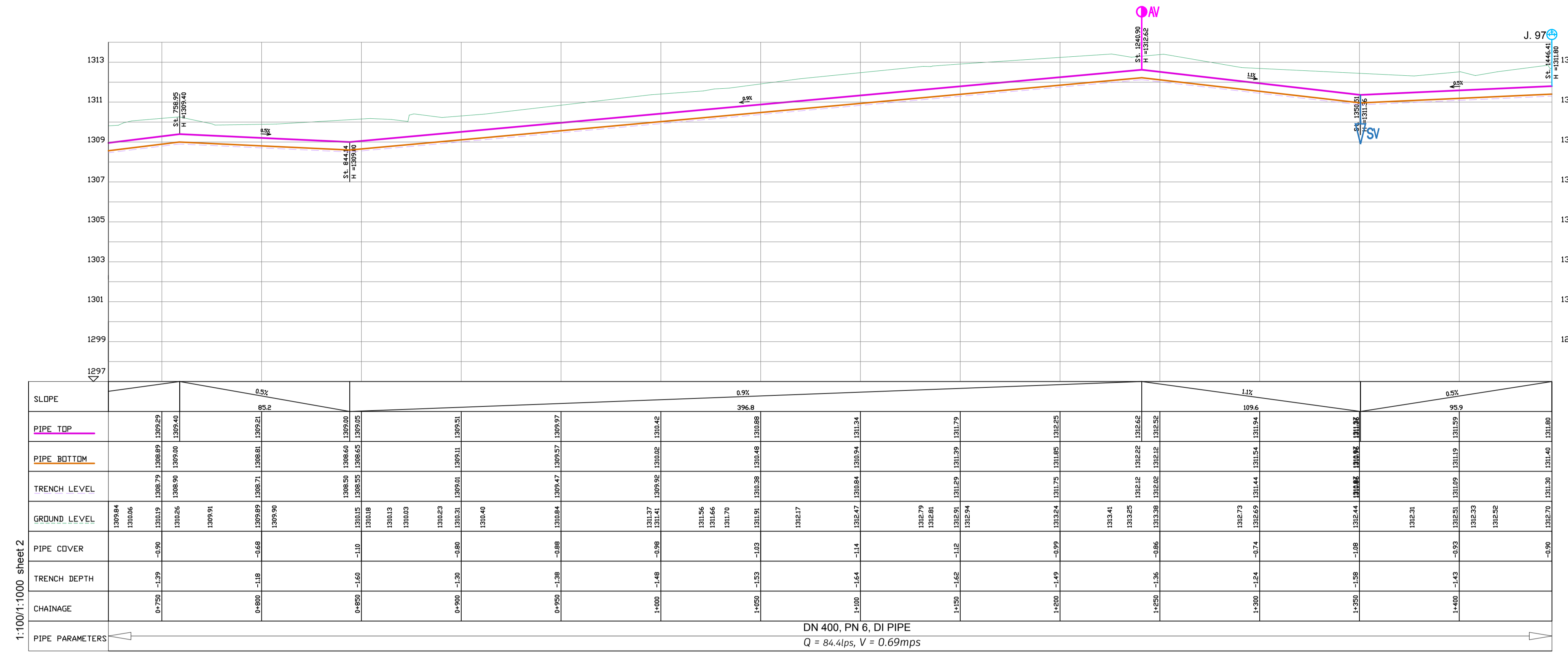
Client: **REPUBLIC OF UGANDA
 MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
 SECONDARY MAIN M2-S1**

Consultants: **aarvee associates**
 aarvee associates consultants pvt.ltd. s.
 Ravula Road, Shivajinagar Main Rd., Hyderabad 50, India
 Tel: +91-40-33379333 Fax: +91-40-33379077
 e-mail: irrigation@aarvee.net web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PP/M2-S1-01 Date: APR 2022

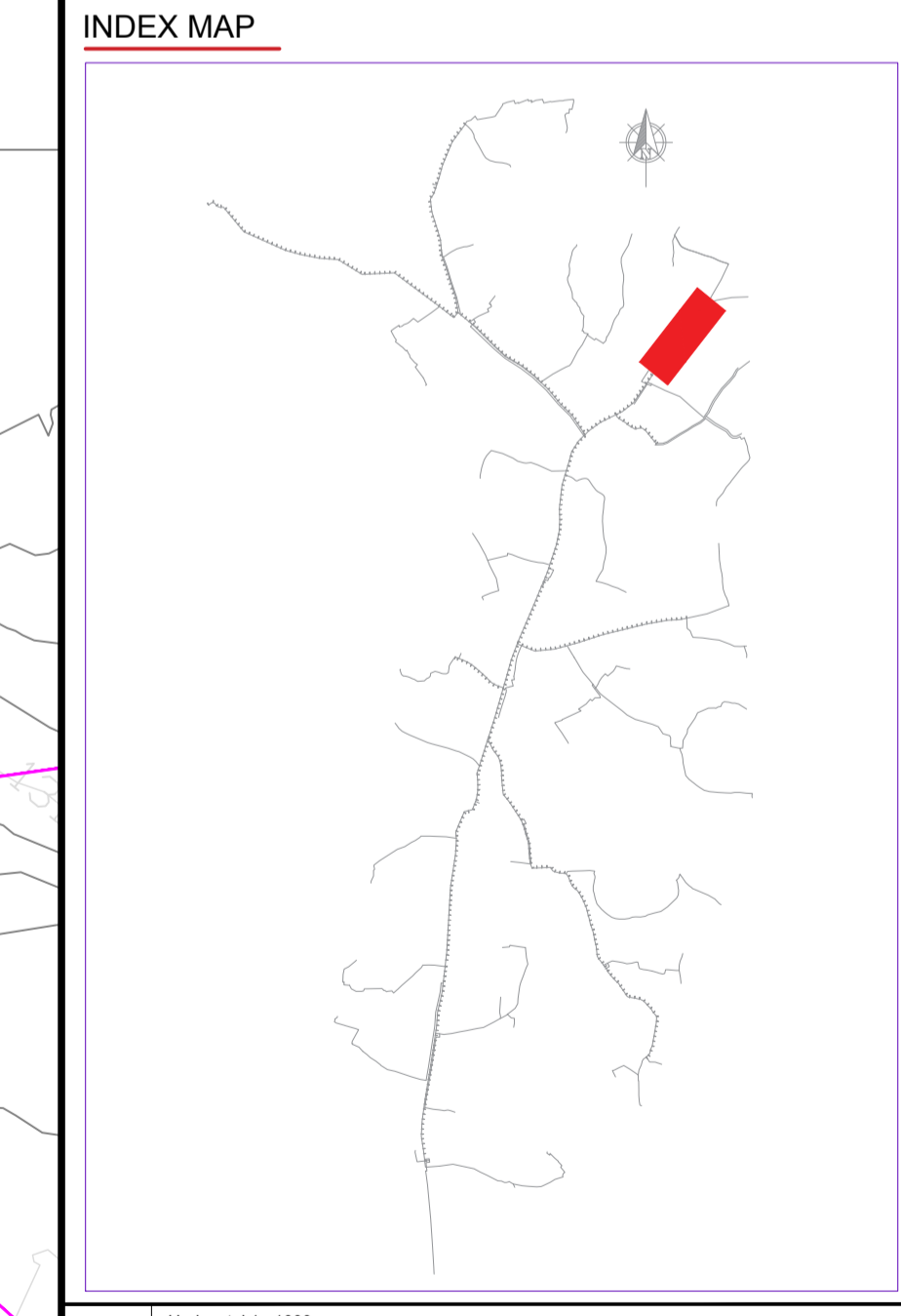


SECONDS MAIN M2-S1
 DN 400, PN 6, DI PIPE
 Q = 84.4lps, V = 0.69mps

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
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- ANTI-SURGE VALVE On Plan View
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- PIPE CROSS-JUNCTION On Profile View
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Scale: Horizontal 1 : 1000
 Vertical 1 : 100

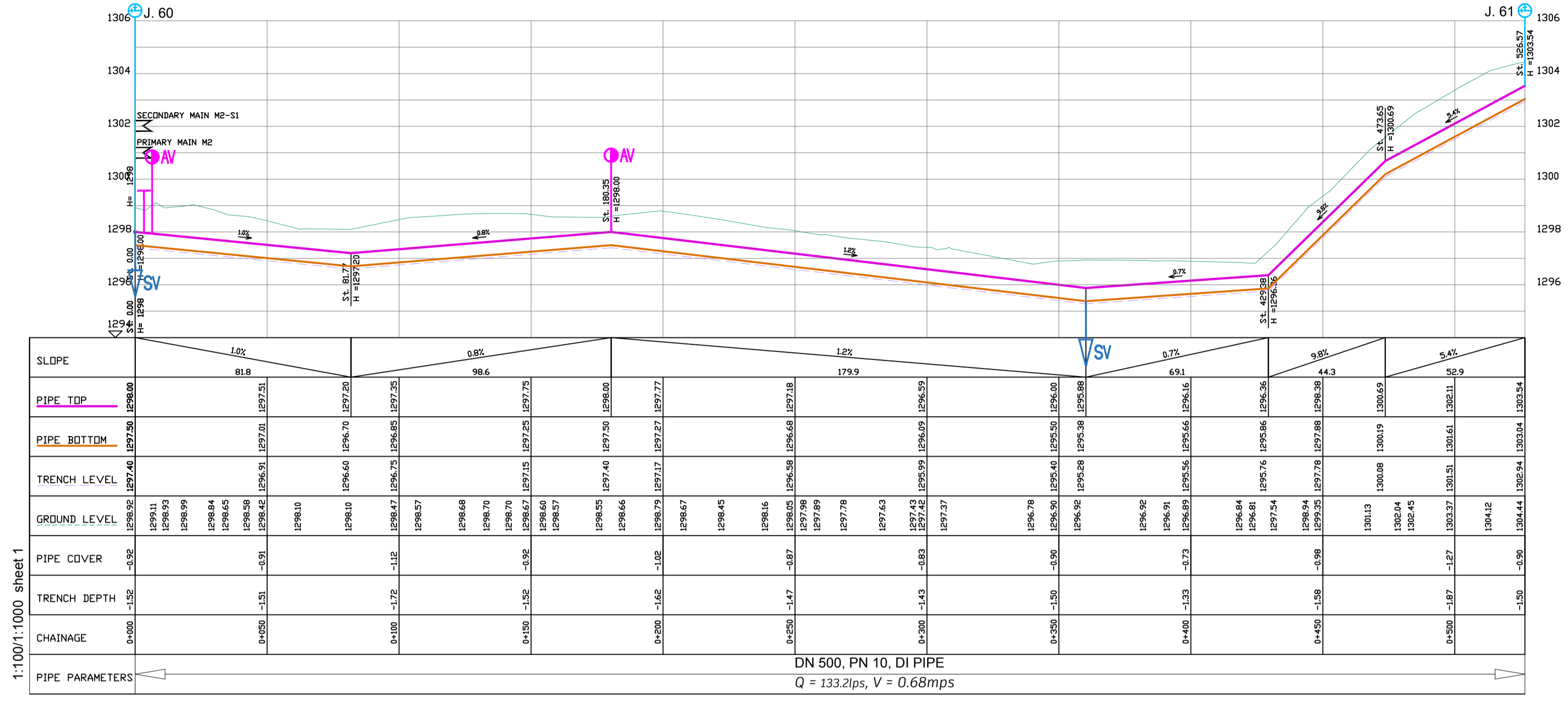
Client: **REPUBLIC OF UGANDA
 MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
 SECONDARY MAIN M2-S1**

Consultants: **aarvee associates**
 architects, engineers, consultants pvt. ltd. s.
 Ravula Road, Shree Colony Main Rd., Hyderabad 52, India
 Tel: +91-40-33379333 Fax: +91-40-33379077
 e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PP/M2-S1-02 Date: APR 2022

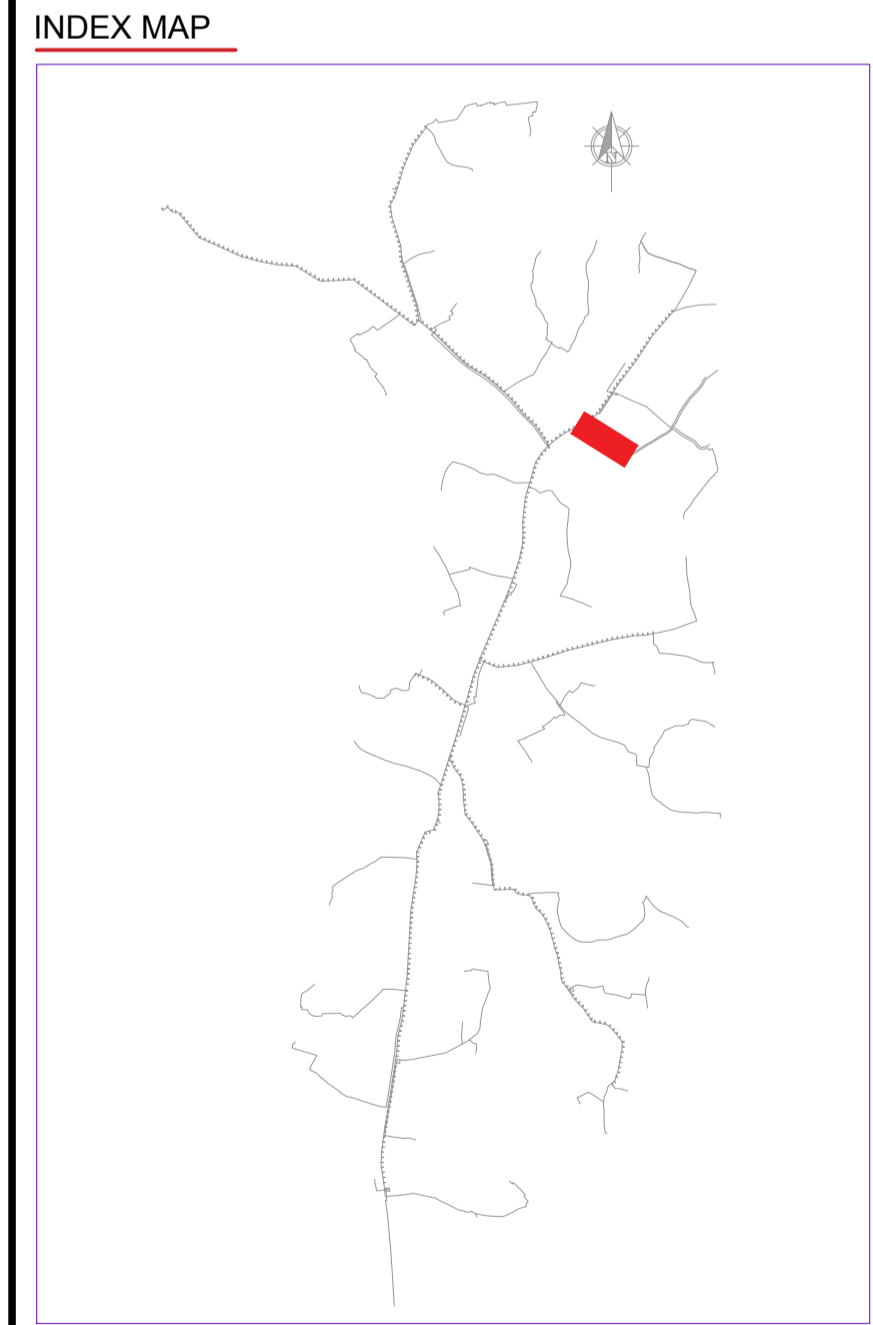
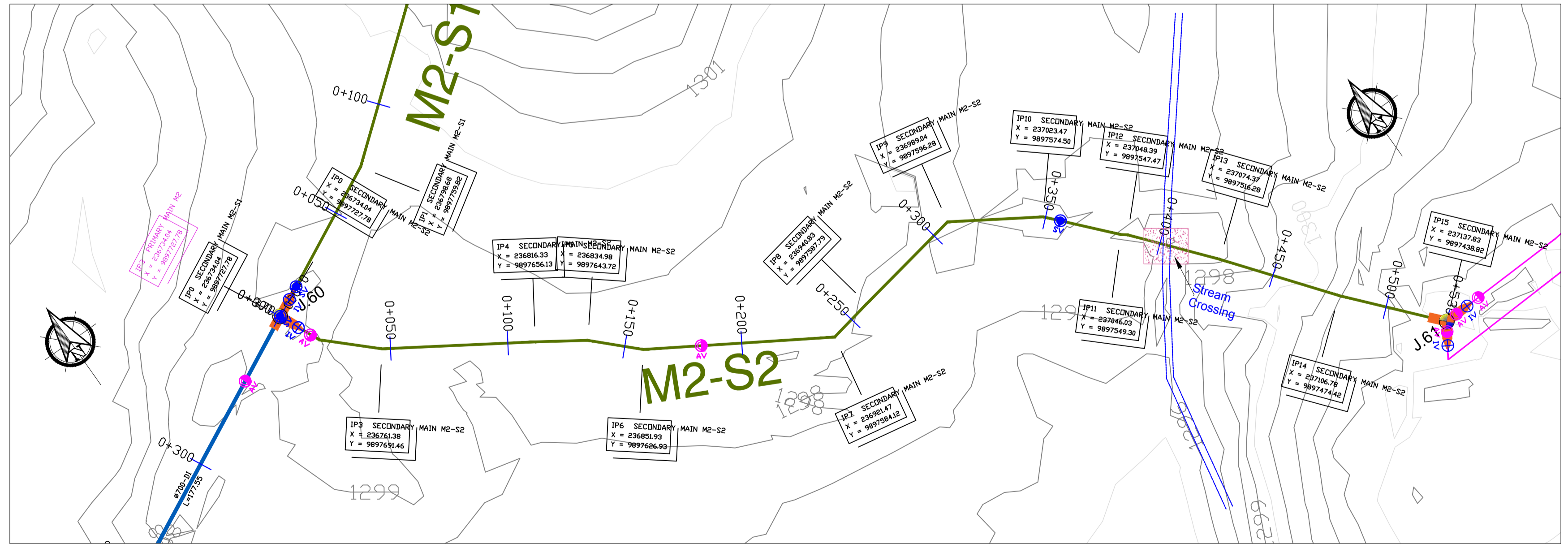


1:100V:1000 sheet 1
SECONDARY MAIN M2-S2

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

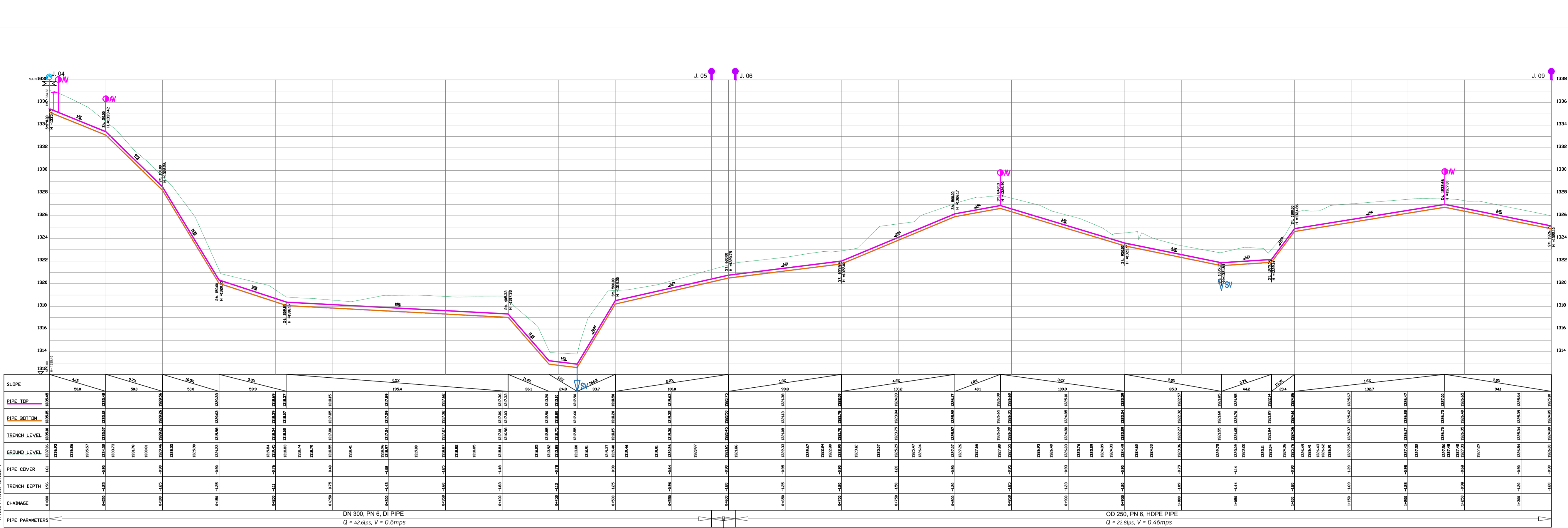
Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
SECONDARY MAIN M2-S2

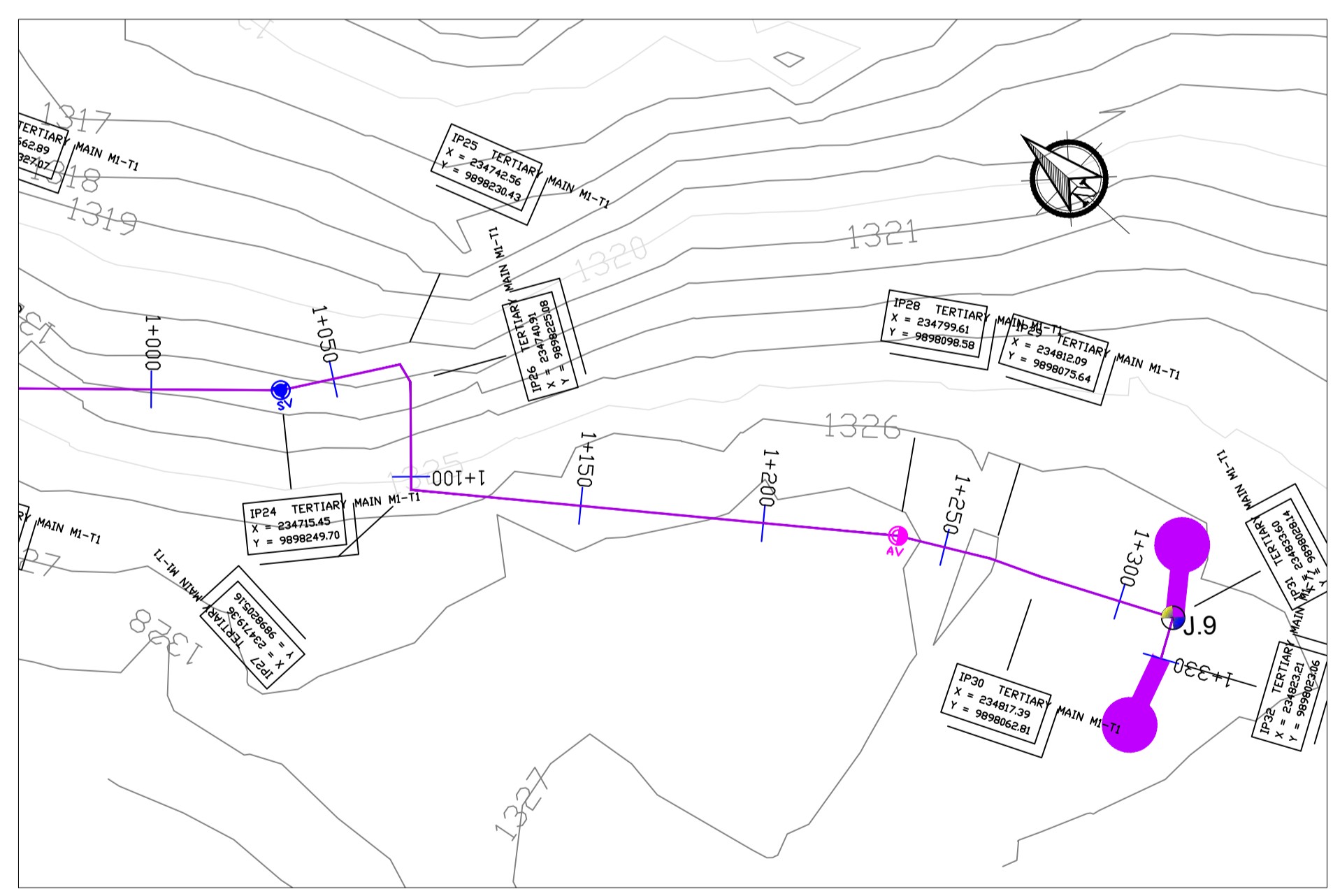
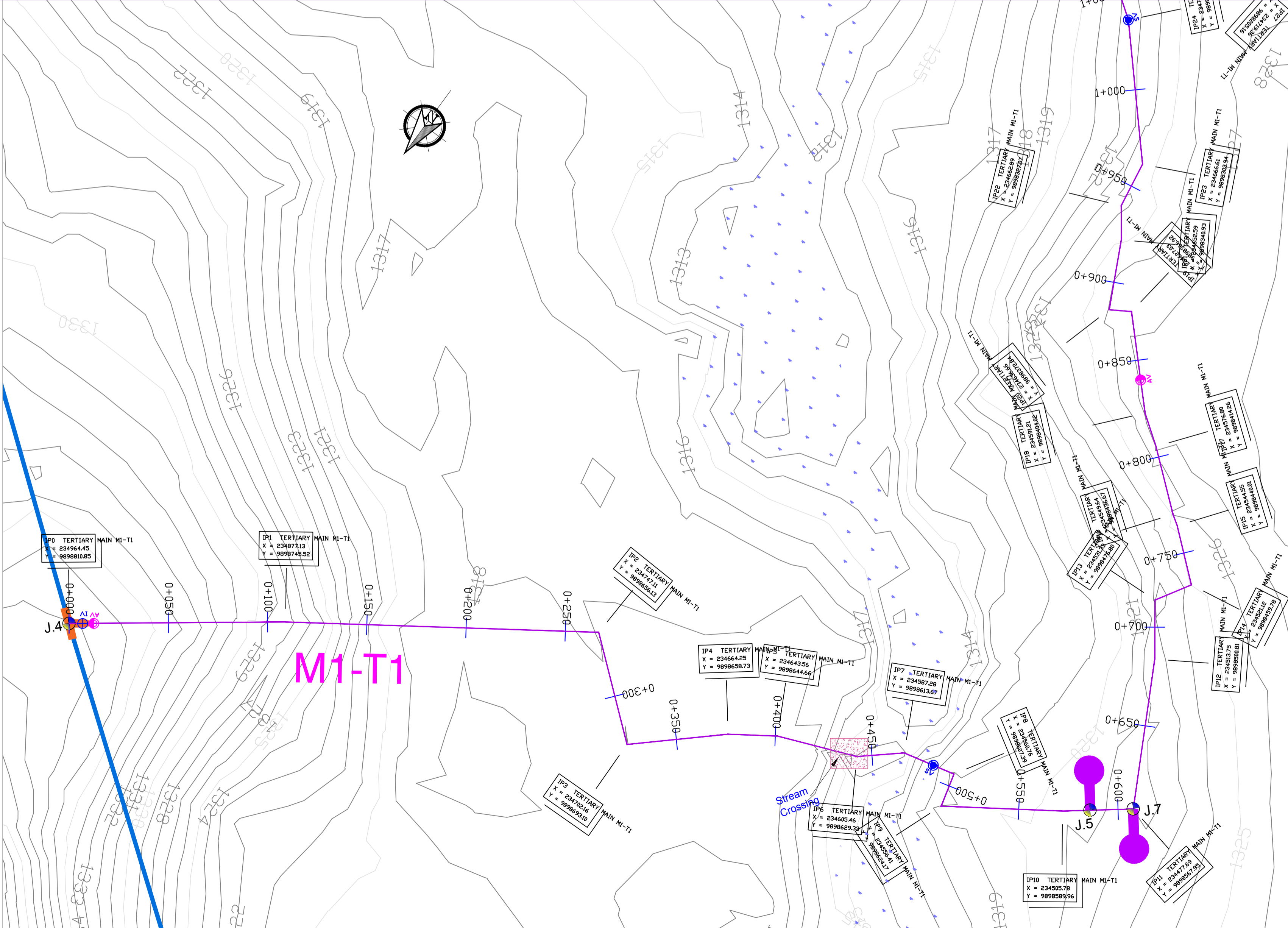
Consultants: **aarvee associates**
architects engineers consultants pvt. ltd.
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33379333 Fax: +91-402219077
e-mail: irrigation@aarvee.net web: www.aarvee.net

DRG. NO: MWE-KIS-NET-PPIM2-S2-01 Date: APR 2022

**PLAN AND PROFILES:-
TERTIARY MAIN PIPES**



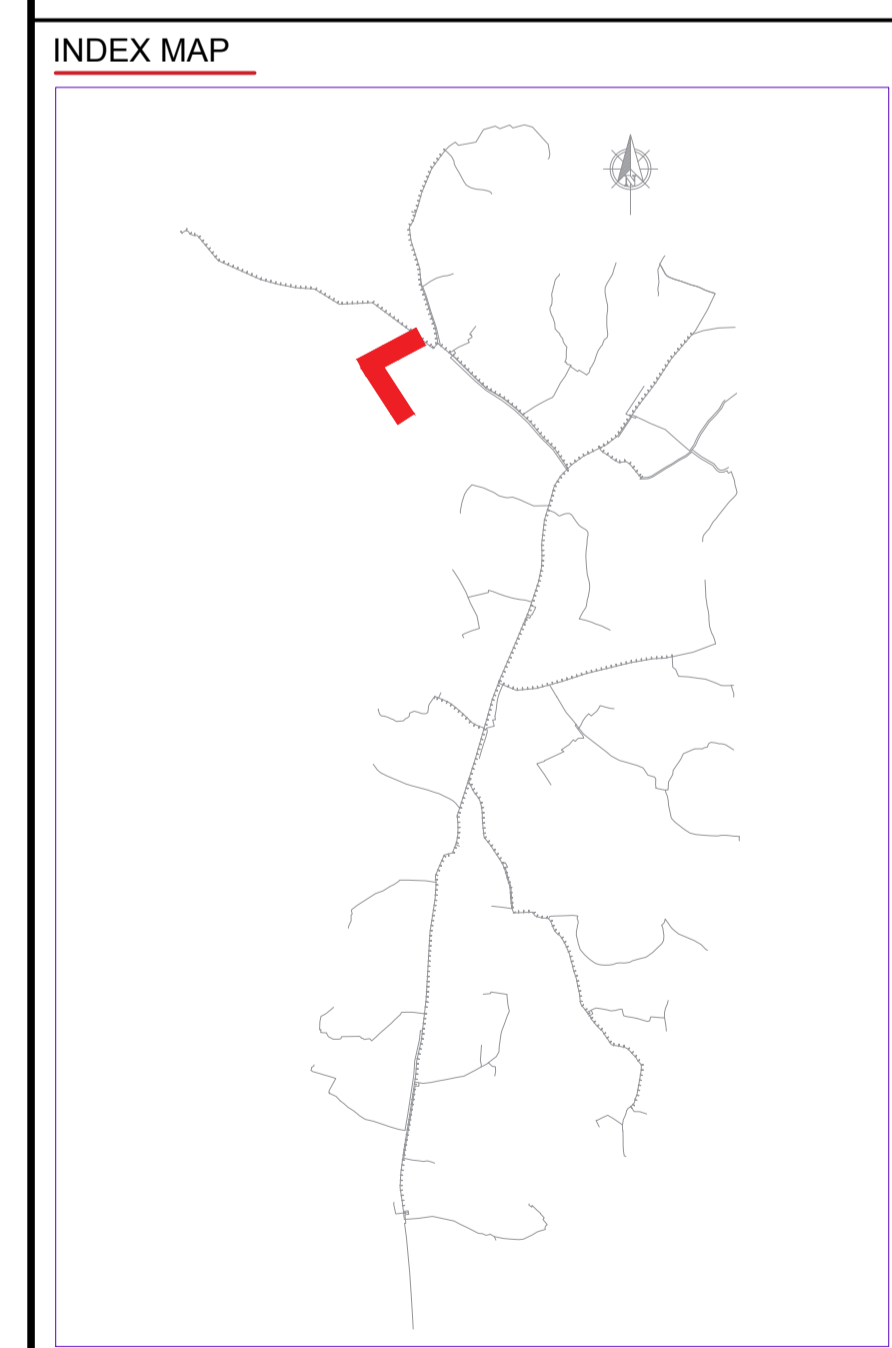
PIPE PARAMETERS	DN 300, PN 6, DI PIPE	DN 250, PN 6, MS PIPE	OD 250, PN 6, HDPE PIPE
Q	42.6lps, V = 0.6mps	34.8lps, V = 0.71mps	22.8lps, V = 0.46mps



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Scale: Horizontal 1: 1000
Vertical 1: 100

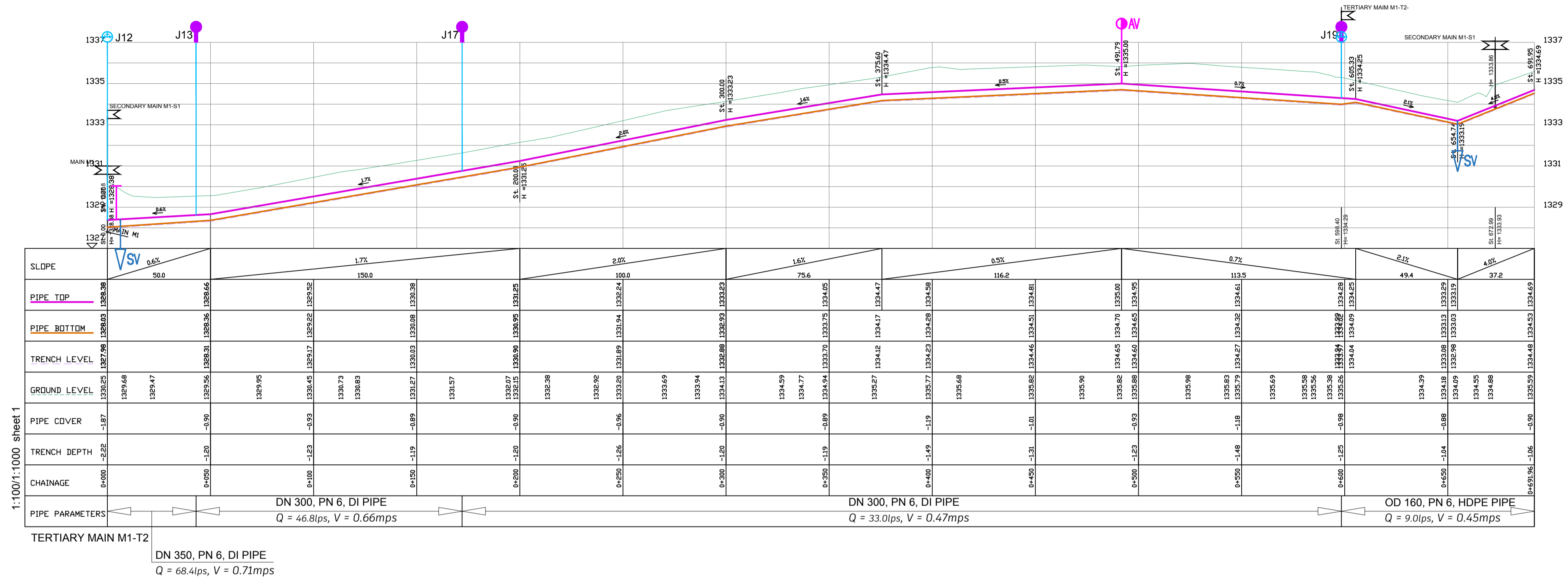
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1T1**

Consultants: **arvee associates**
arvee associates & consultants pvt. ltd.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33379333 Fax: +91-40-33379377
e-mail: irrigation@arvee.net, web: www.arvee.net

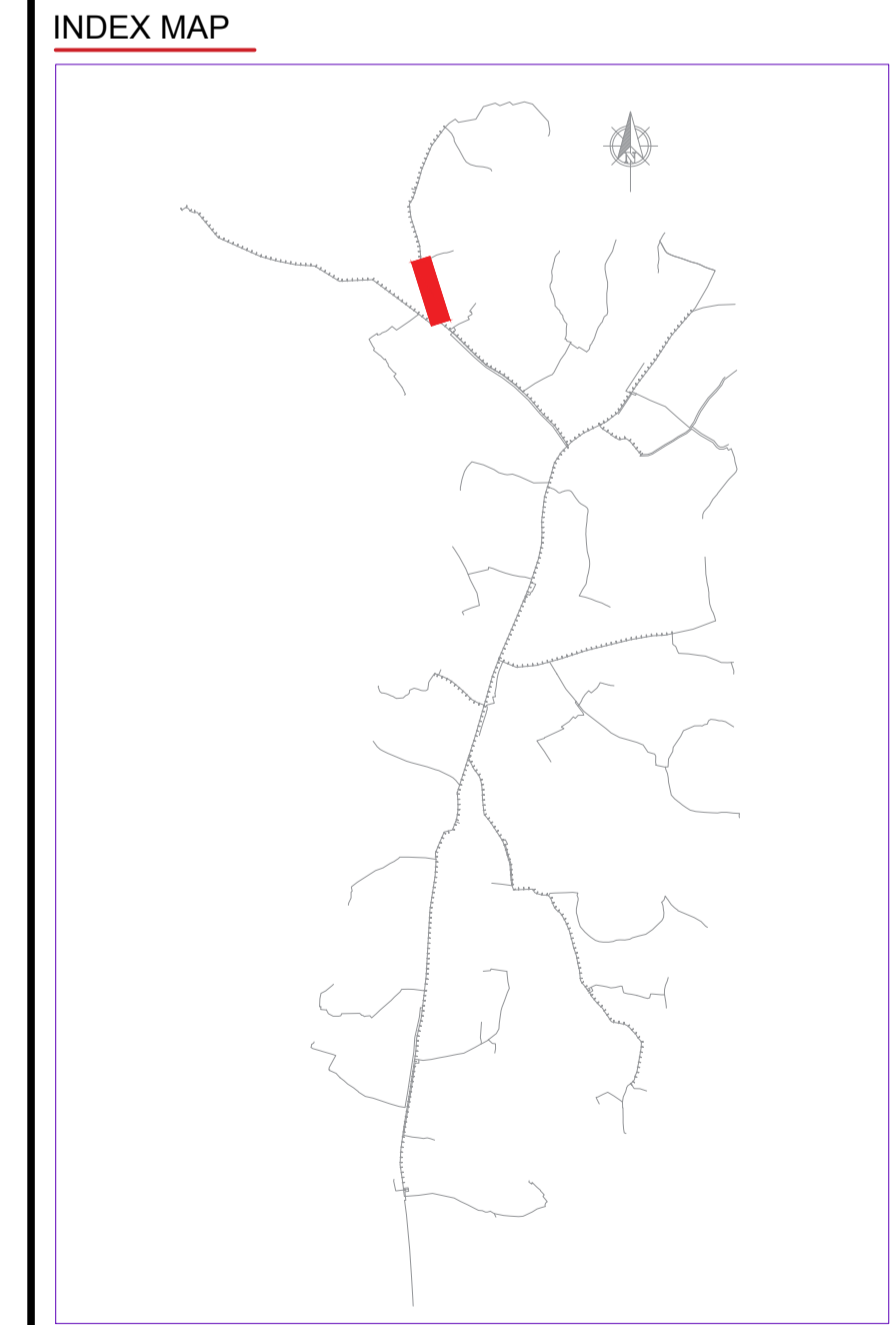
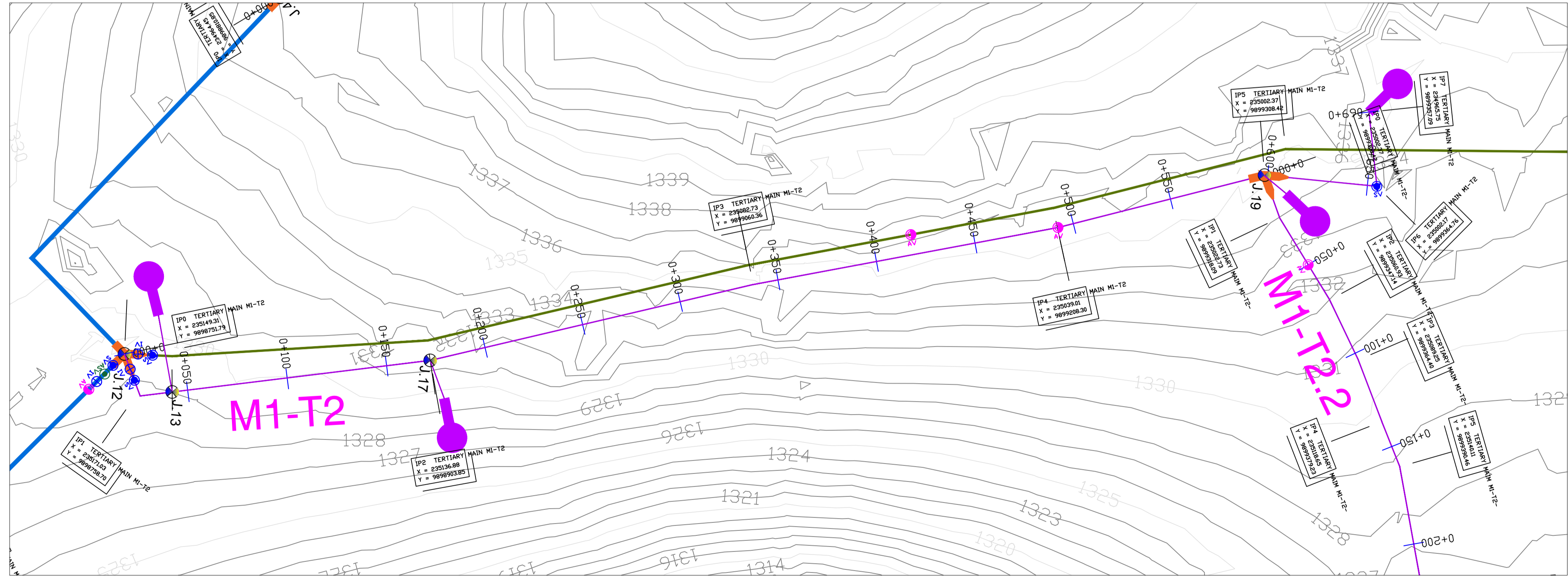
DRG. NO/MWE-KIS-NET-PP/M1T1-01 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Scale: Horizontal 1: 1000
Vertical 1: 100

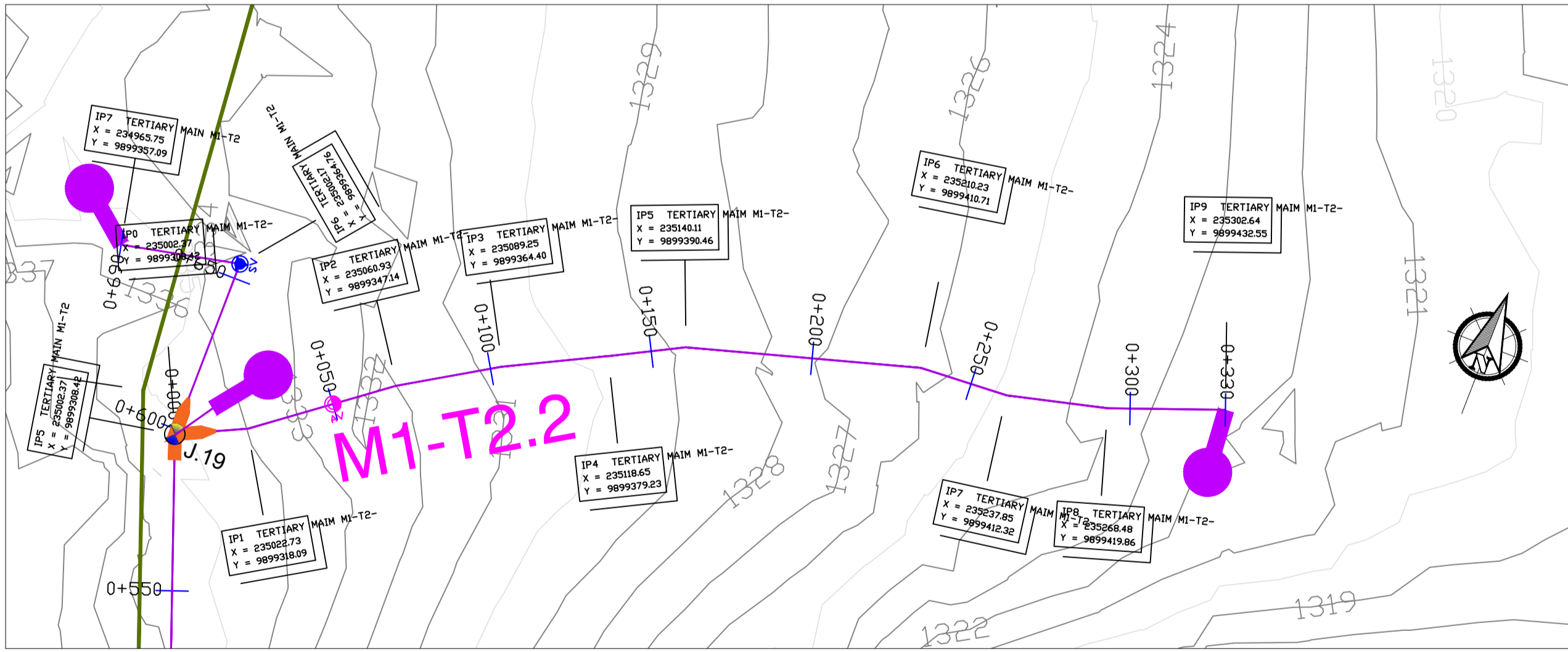
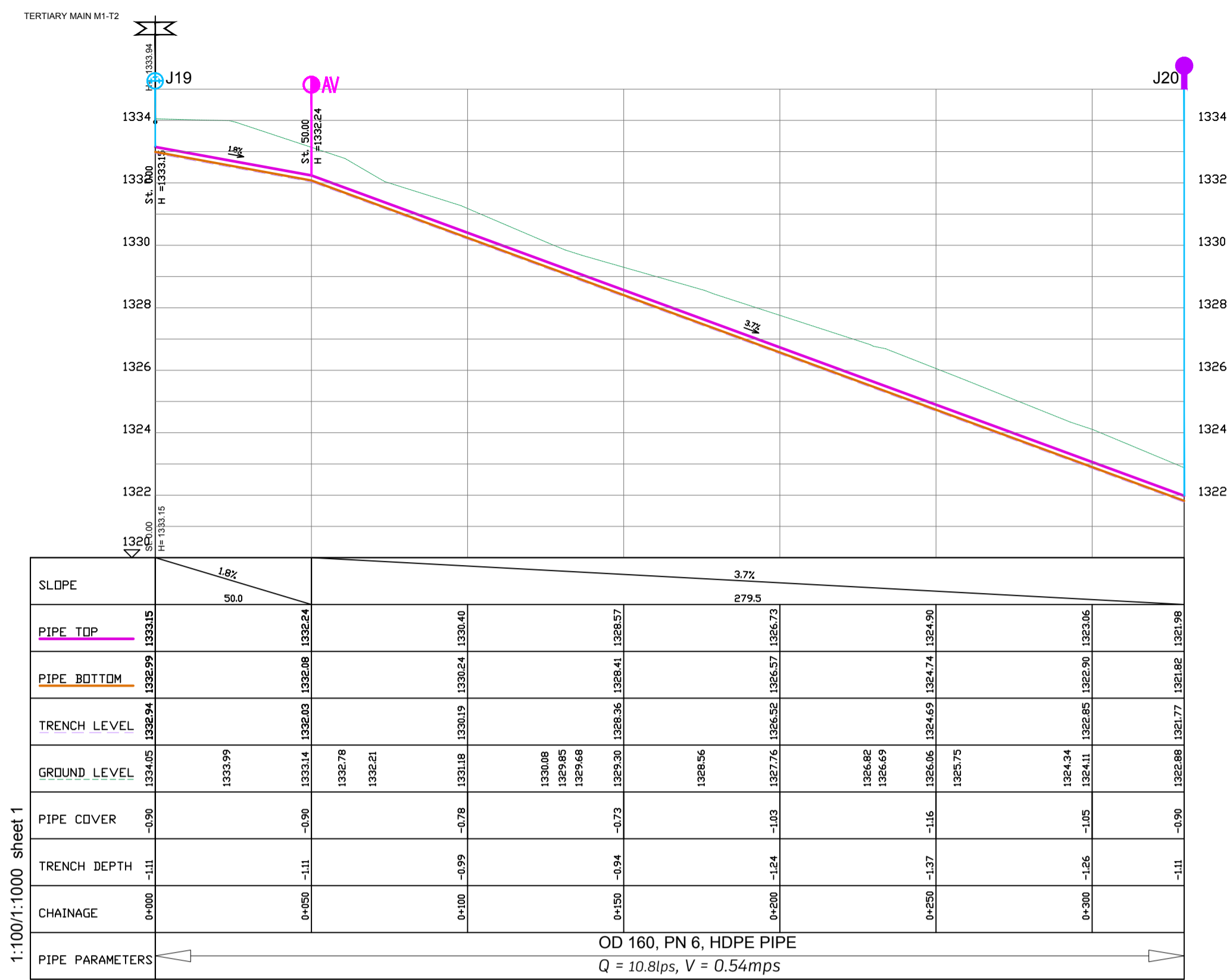
Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1T2**

Consultants: **arvee associates**
arvee associates engineers & consultants pvt. ltd.
Ravula Residency, Shree Nagar Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33737633 Fax: +91-40-33736277
e-mail: irrigation@arvee.net, web: www.arvee.net

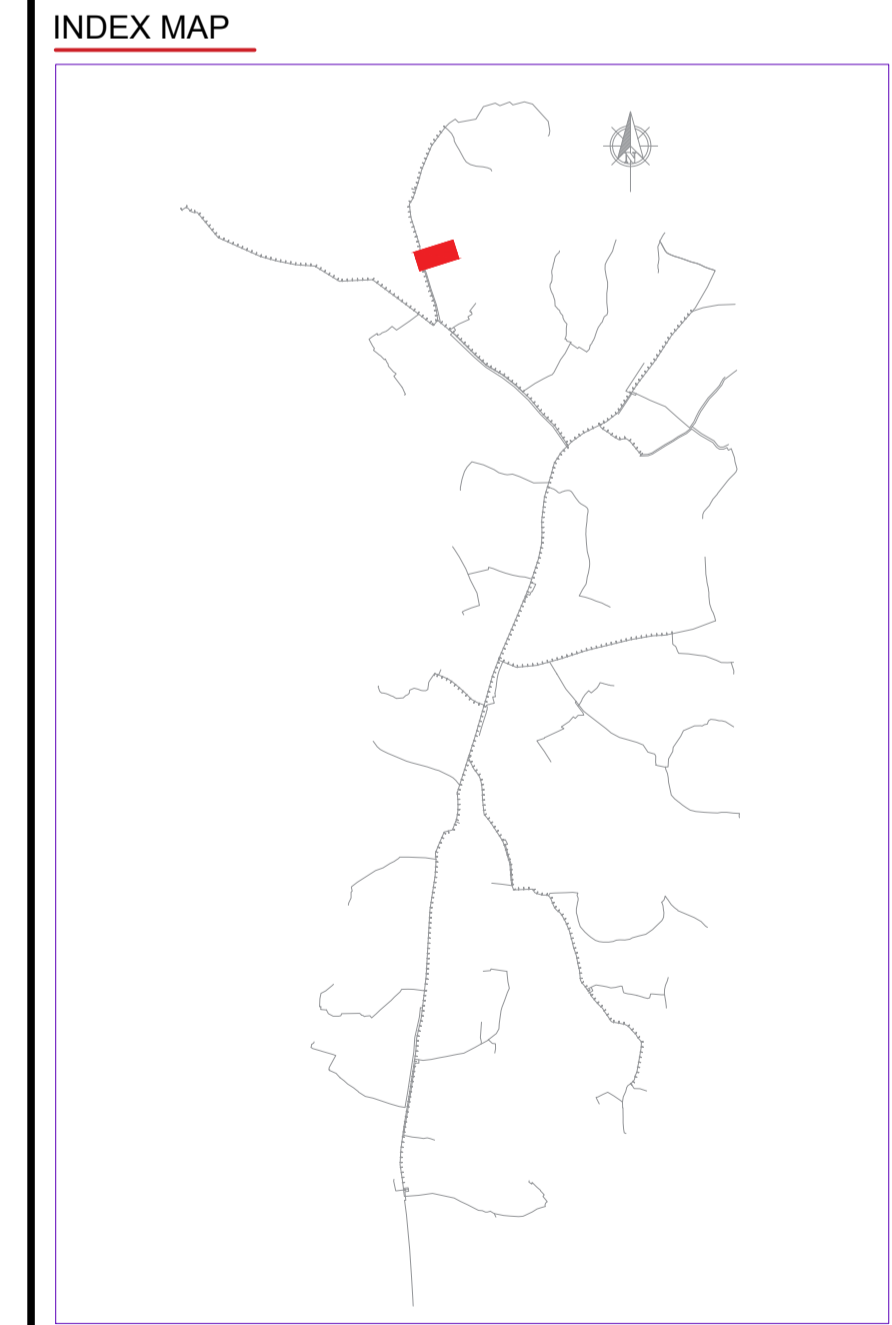
DRG. NO./MWE-KIS-NET-PP/M1T2-01 Date / APR 2022



LEGEND

	GROUND LEVEL		PIPE TOP
	PIPE BOTTOM		TRENCH BOTTOM
	JUNCTION LOCATIONS		AIR VALVE On Profile View
	AIR VALVE On Plan View		SCOUR VALVE On Plan View
	SCOUR VALVE On Profile View		ISOLATION VALVE On Profile View
	ISOLATION VALVE On Plan View		ANTI-SURGE VALVE On Profile View
	ANTI-SURGE VALVE On Plan View		PIPE T-JUNCTION On Profile View
	PIPE T-JUNCTION On Plan View		PIPE CROSS-JUNCTION On Profile View
	PIPE CROSS-JUNCTION On Plan View		BLOCK HYDRANT

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Scale: Horizontal 1 : 1000
Vertical 1 : 100

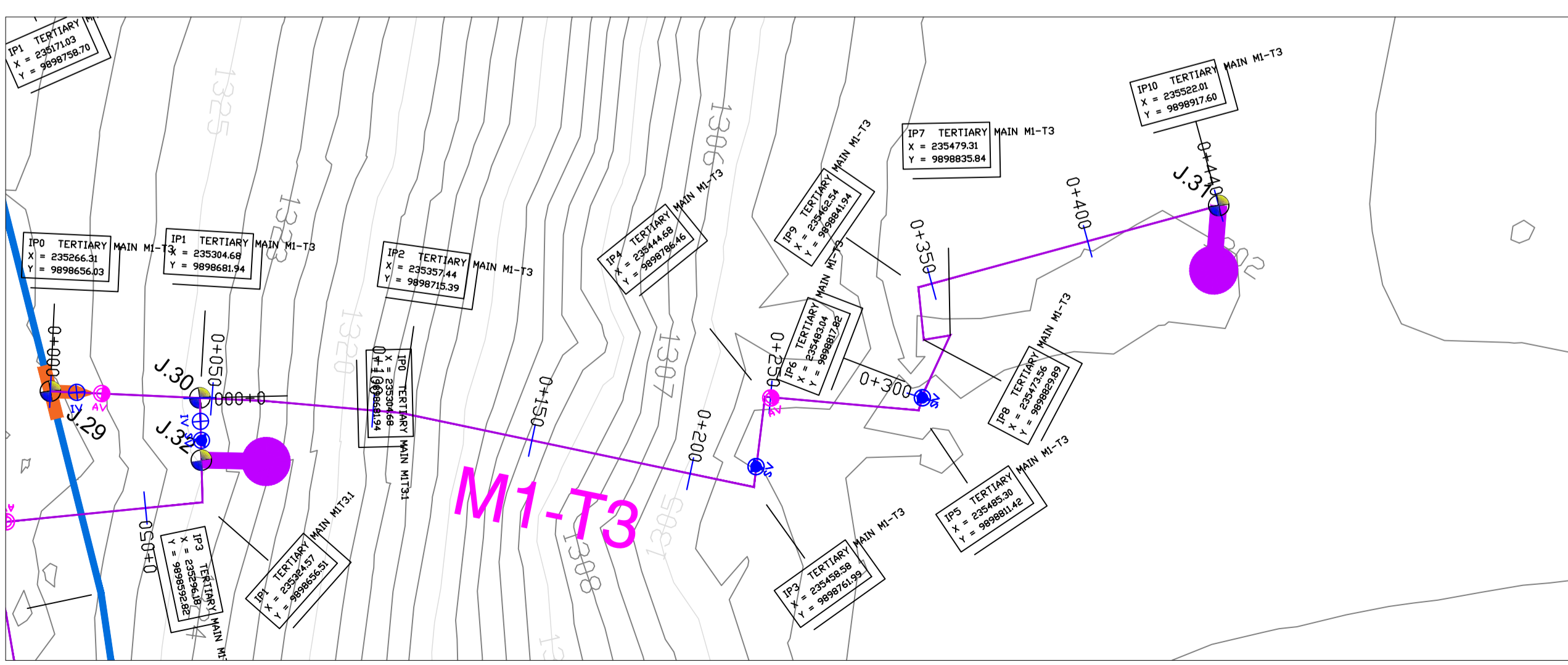
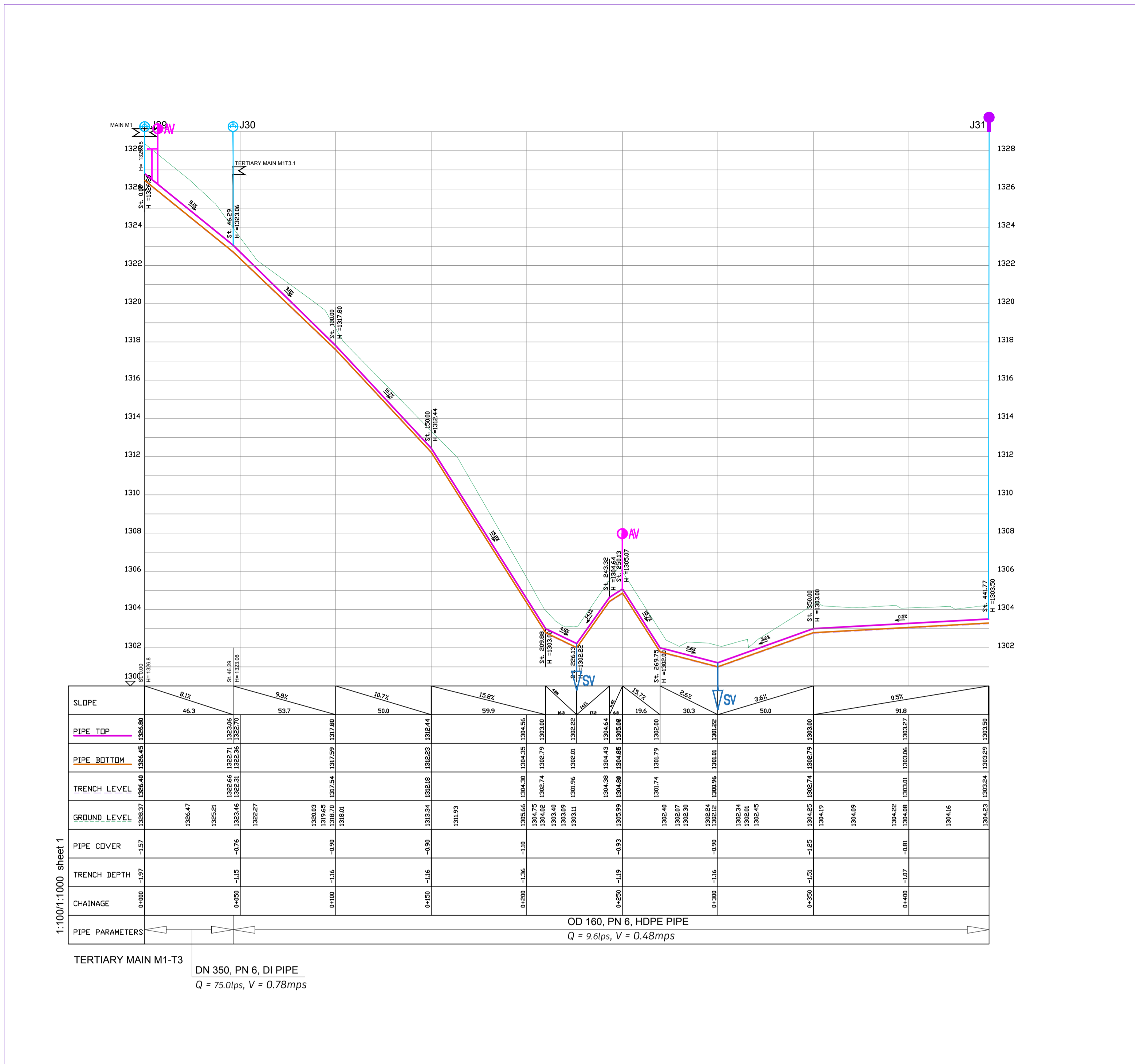
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1T2.2**

Consultants: **aarvee associates**
architects, engineers & consultants pvt. ltd.
Ravula Residency, Shreega Colony Main Rd., Hyderabad 52, India
Tel: +91-40-3379333 Fax: +91-40-2379077
e-mail: irrigation@aarvee.net, web: www.aarvee.net

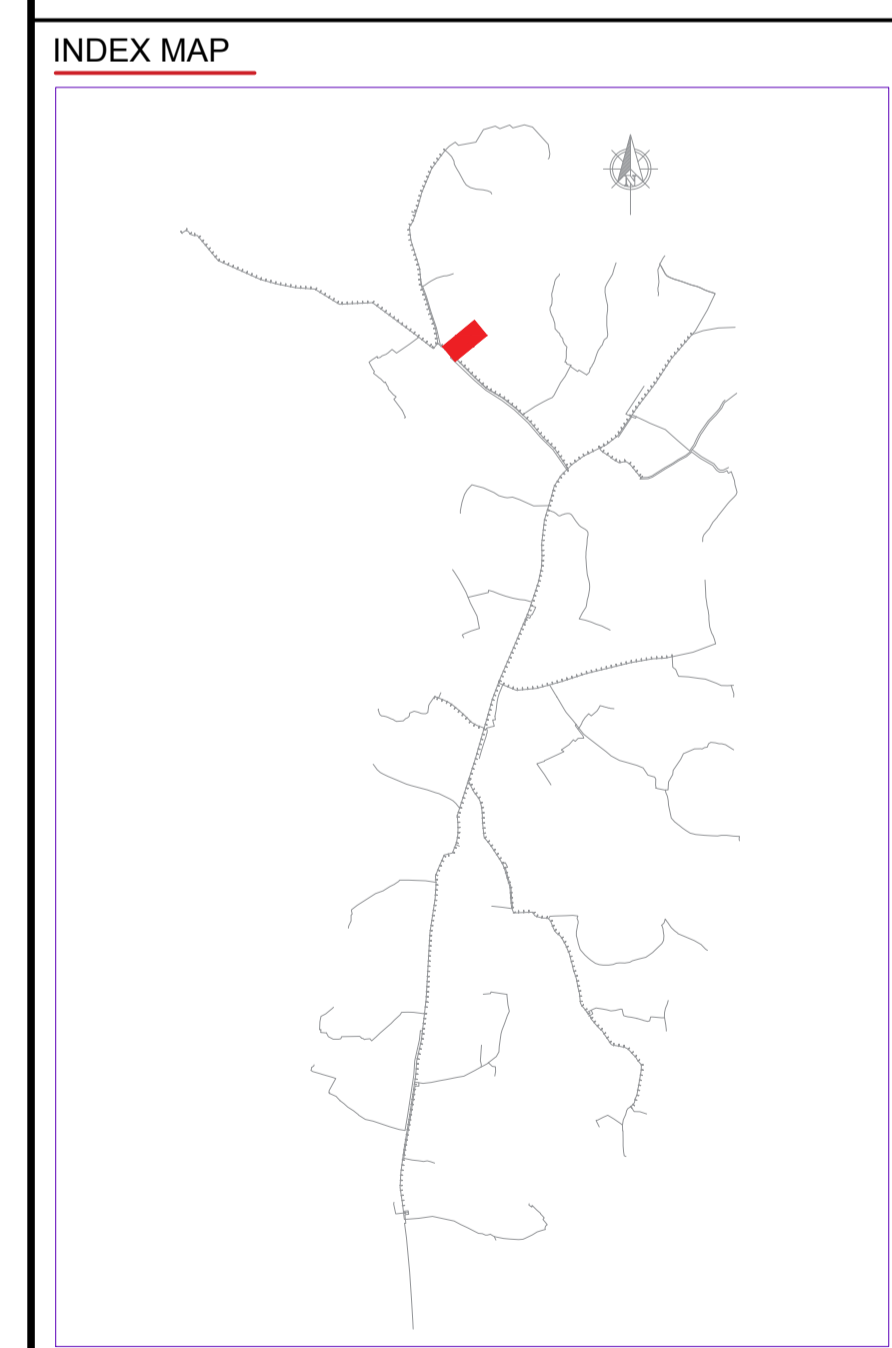
DRG. NO./MWE-KIS-NET-PP/M1T2-02 Date /APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE (On Profile View / On Plan View)
- SCOUR VALVE (On Profile View / On Plan View)
- ISOLATION VALVE (On Profile View / On Plan View)
- ANTI-SURGE VALVE (On Profile View / On Plan View)
- PIPE T-JUNCTION (On Profile View)
- PIPE CROSS-JUNCTION (On Profile View)
- BLOCK HYDRANT

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
 - REFER TO AUXILIARY WORKS DRAWINGS FOR ANCHORAGE TO PIPELINES, AIR VALVES DETAILS, PIPE PEDESTALS, PULLEY SUPPORT, TRENCH DETAILS, VALVE CHAMBERS, WASHOUT CHAMBERS AND WATER METERS.
 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1: 1000, Vertical 1: 100

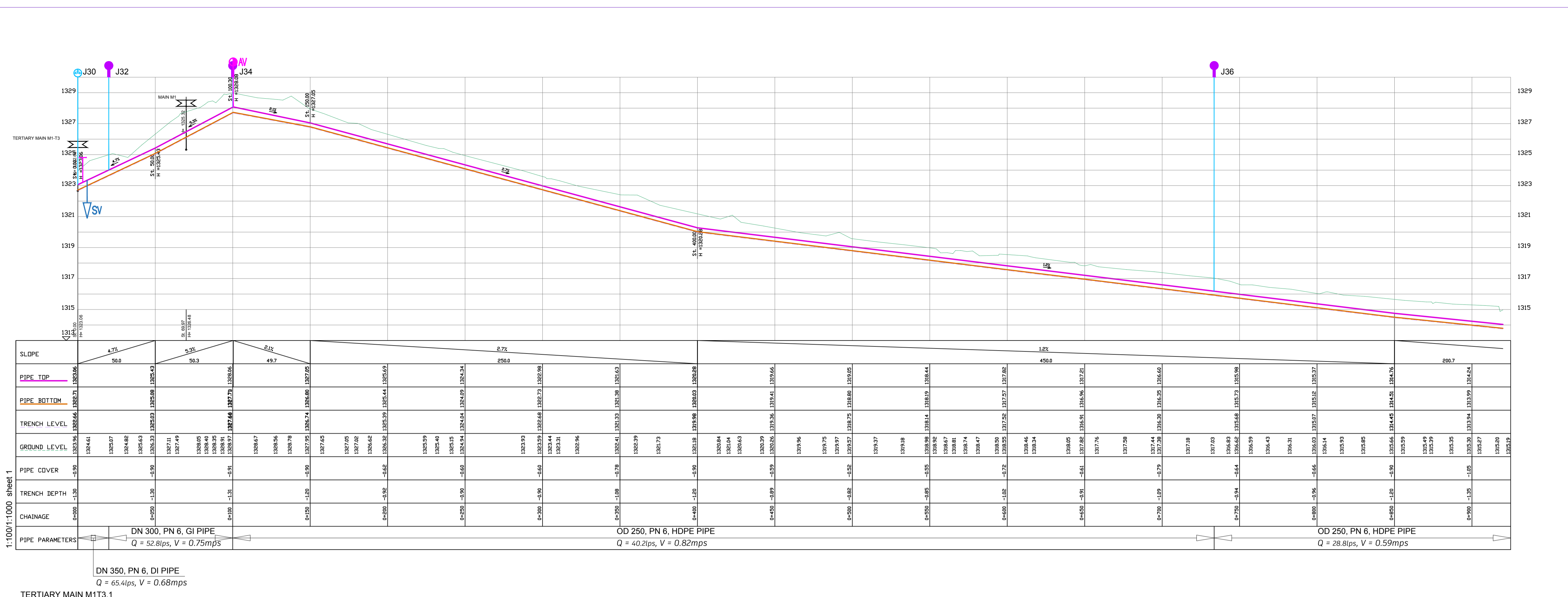
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1T3**

Consultants: **aarvee associates**
architects, engineers & consultants pvt. ltd.
Ravula Residency, Shree Colony Main Rd., Hyderabad 62, India
Tel: +91-40-3379333 Fax: +91-40-3379077
e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO./MWE-KIS-NET-PP/M1T3-01 Date: APR 2022

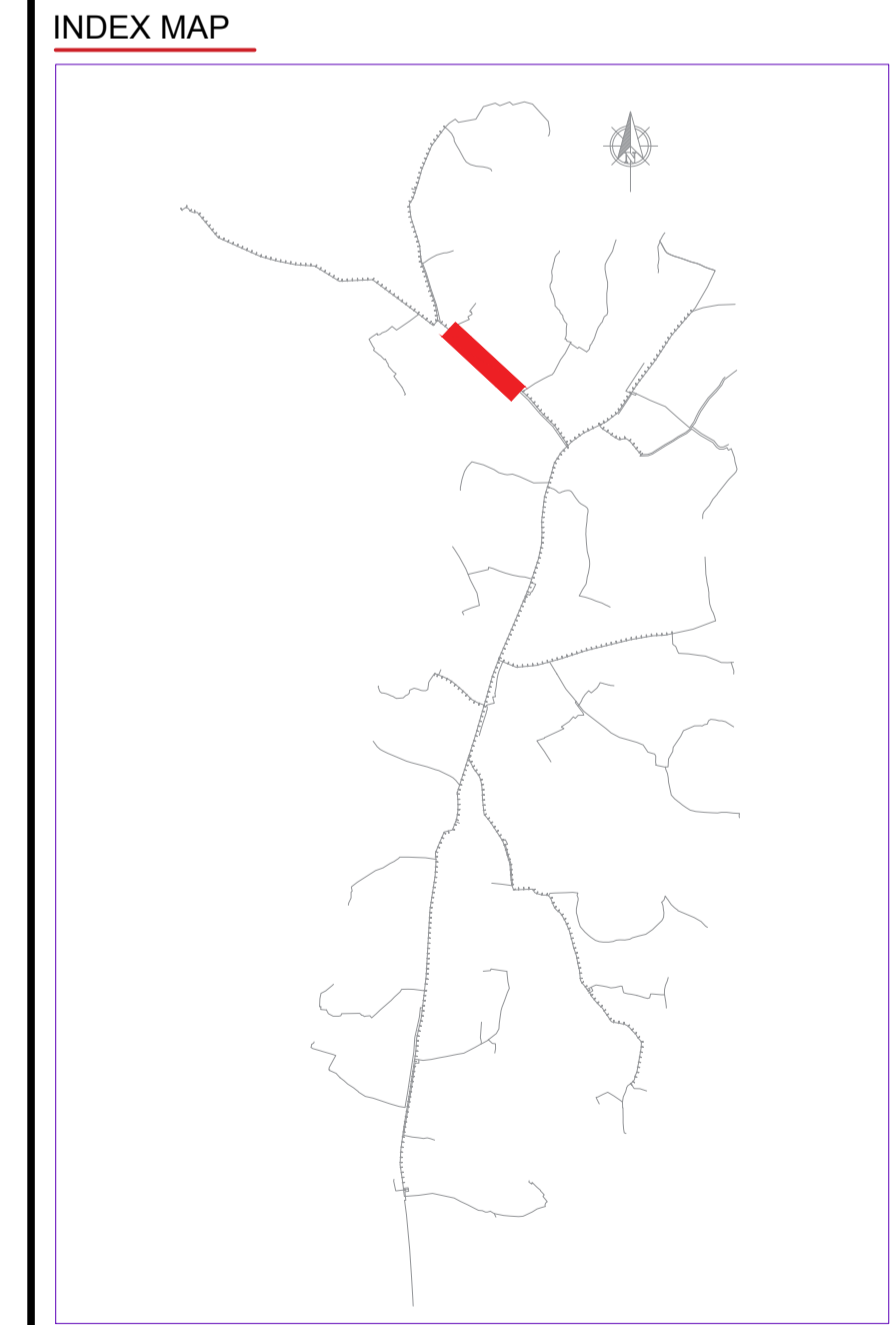
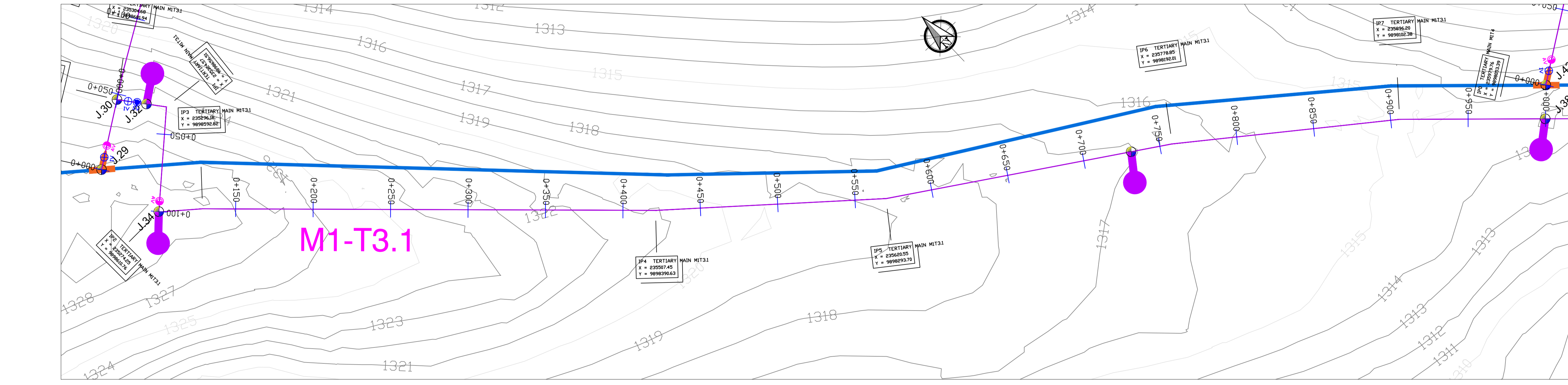


LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- SCOUR VALVE On Profile View
- ISOLATION VALVE On Profile View
- ANTI-SURGE VALVE On Profile View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT
- AIR VALVE On Plan View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Plan View

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
 - REFER TO AUXILIARY WORKS DRAWINGS FOR ANCHORAGE TO PIPELINES, AIR VALVES DETAILS, PIPE PEDESTALS, PULLEY SUPPORT, TRENCH DETAILS, VALVE CHAMBERS, WASHOUT CHAMBERS AND WATER METERS.
 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR

1:1000/1:1000 sheet 1
 TERTIARY MAIN M1T3.1



Scale: Horizontal 1 : 1000
Vertical 1 : 100

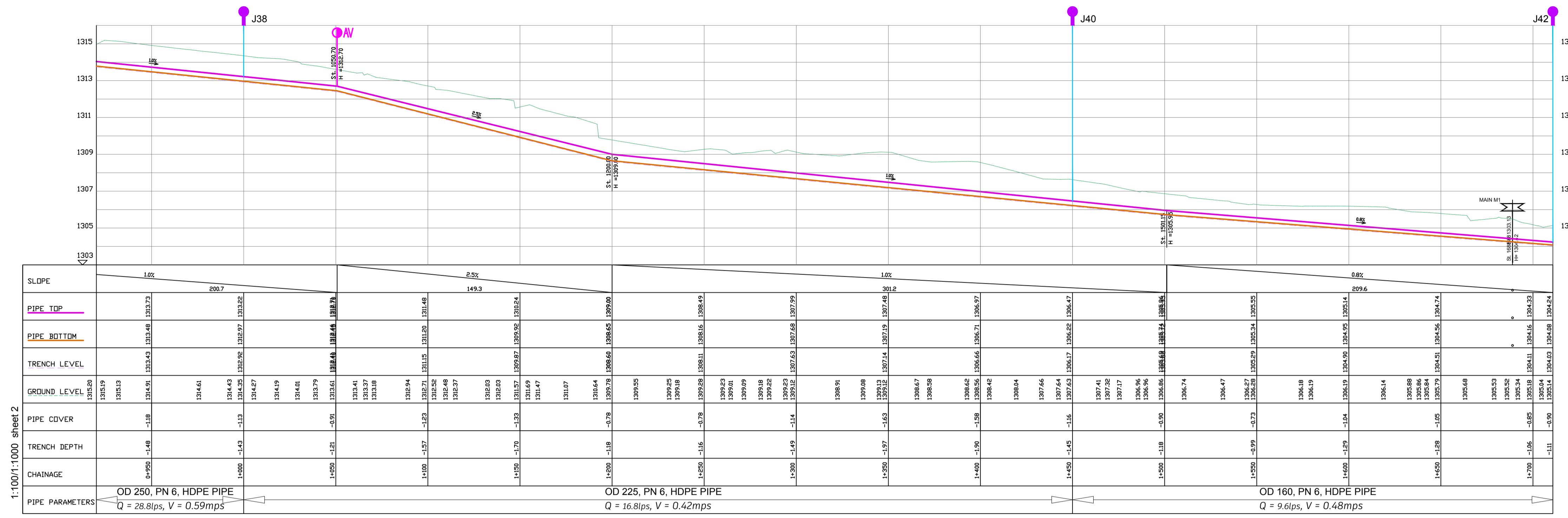
Client: REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project: KABUYANDA IRRIGATION SCHEME

Title: PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1T3.1

Consultants: aarvee associates
Ravula Residency, Shree Nagar Main Rd., Hyderabad 52, India
Tel: +91-40-3379333 Fax: +91-40-3379377
e-mail: info@aarvee.net, web: www.aarvee.net

DRG. NO./MWE-KIS-NET-PP/M1T3-02 Date / APR 2022

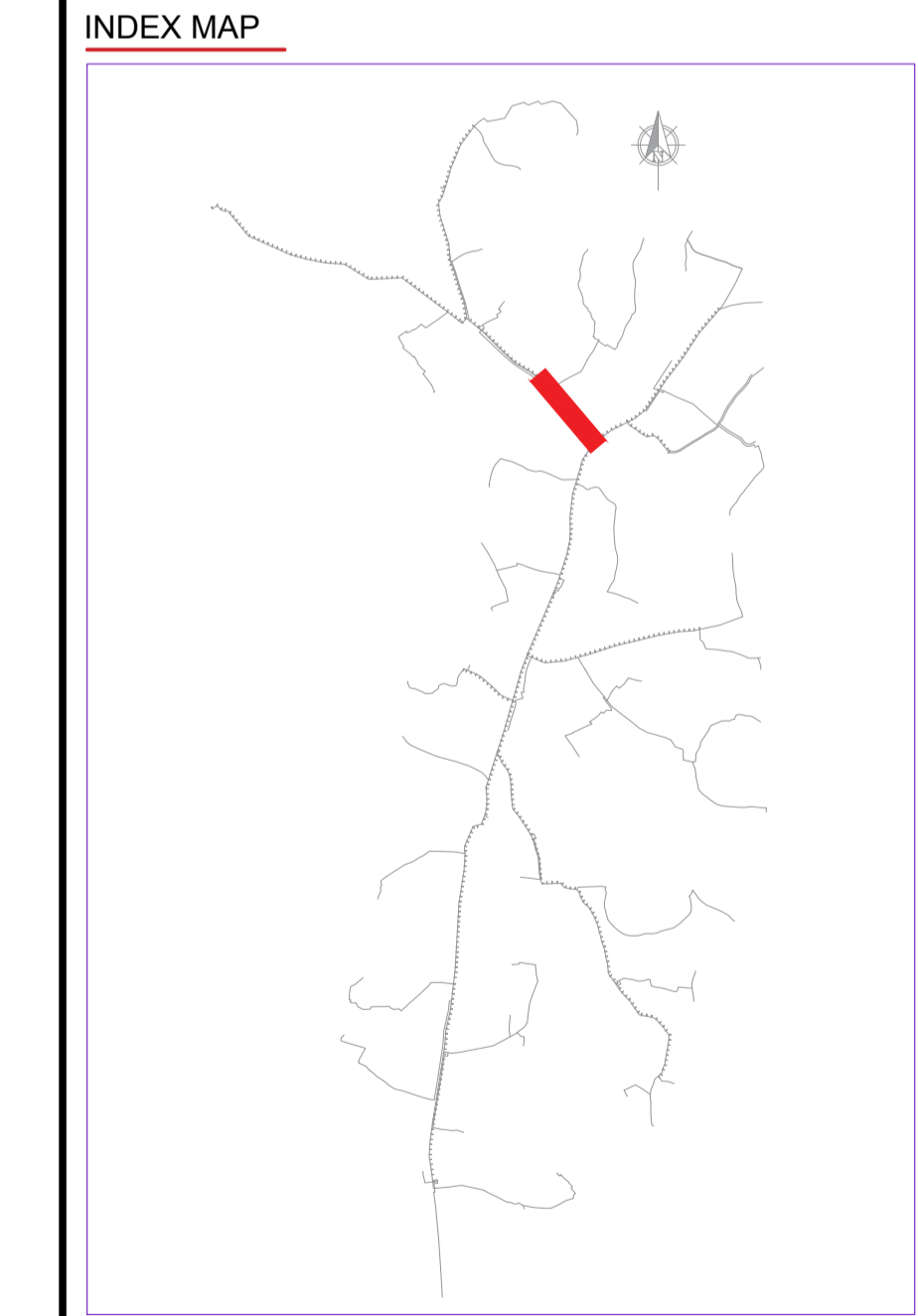
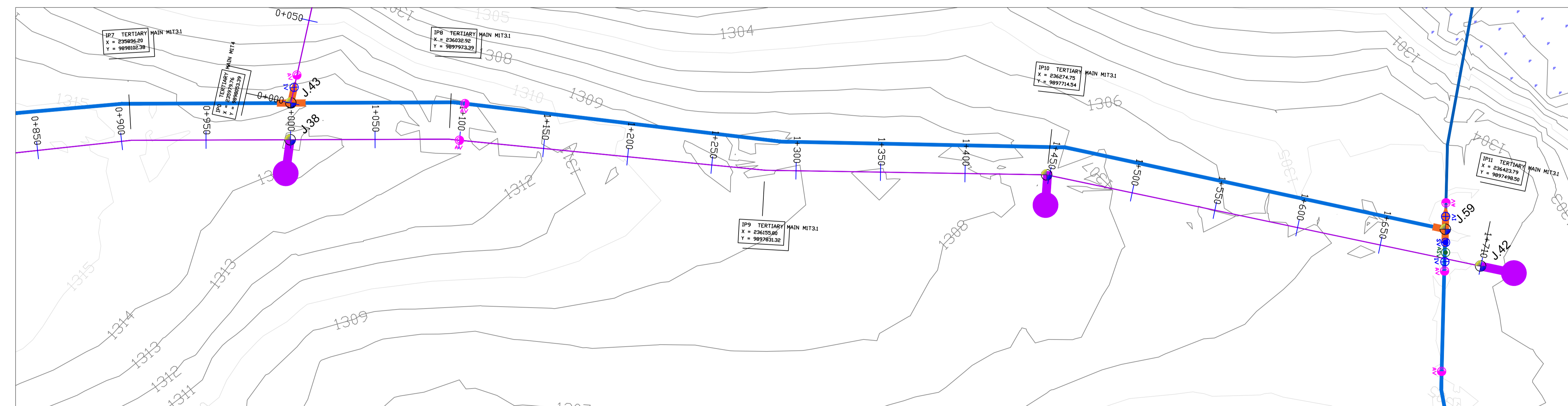


TERTIARY MAIN M1T3.1

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE (AV) On Profile View / On Plan View
- SCOUR VALVE (SV) On Profile View / On Plan View
- ISOLATION VALVE (IV) On Profile View / On Plan View
- ANTI-SURGE VALVE (ASV) On Profile View / On Plan View
- PIPE T-JUNCTION
- PIPE CROSS-JUNCTION
- BLOCK HYDRANT

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

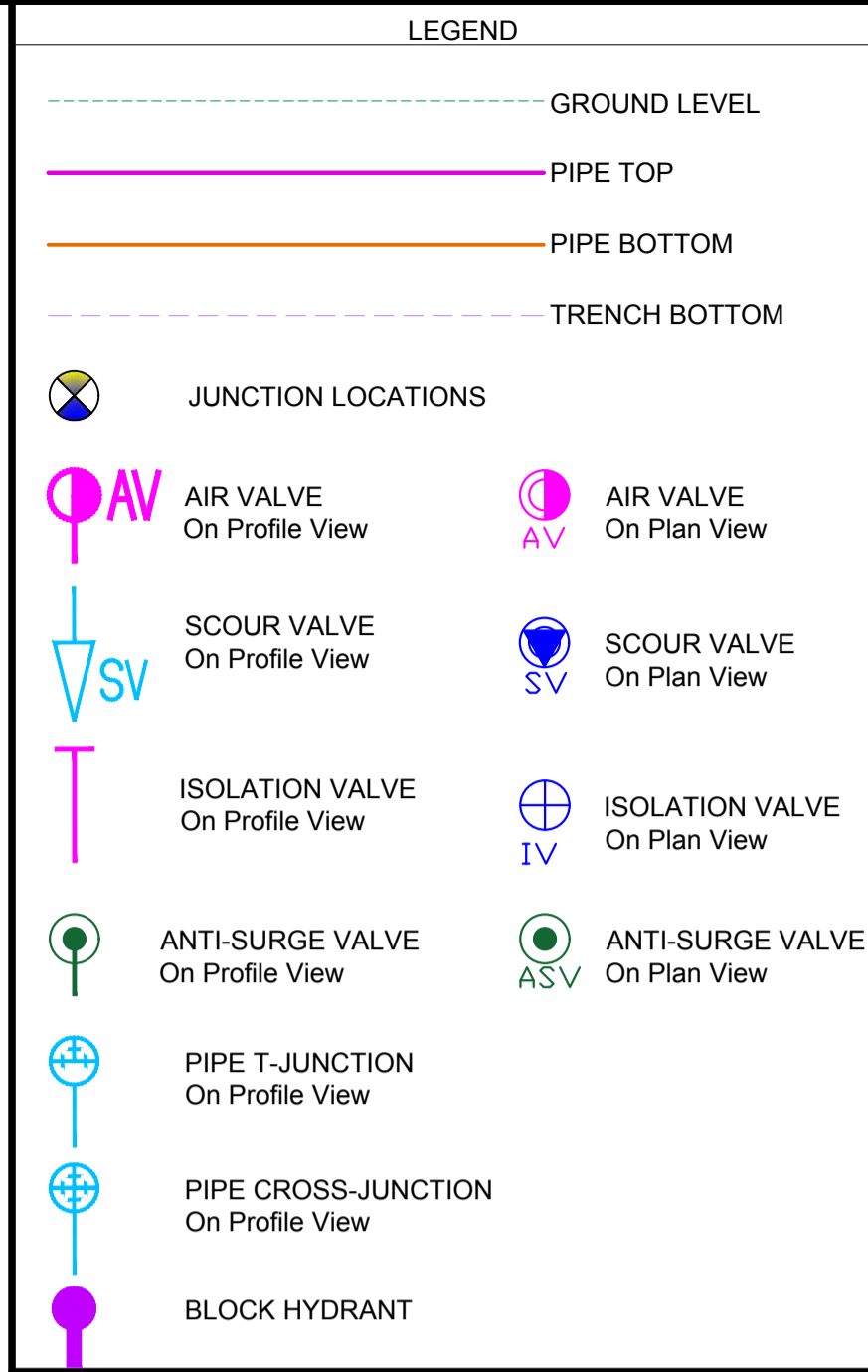
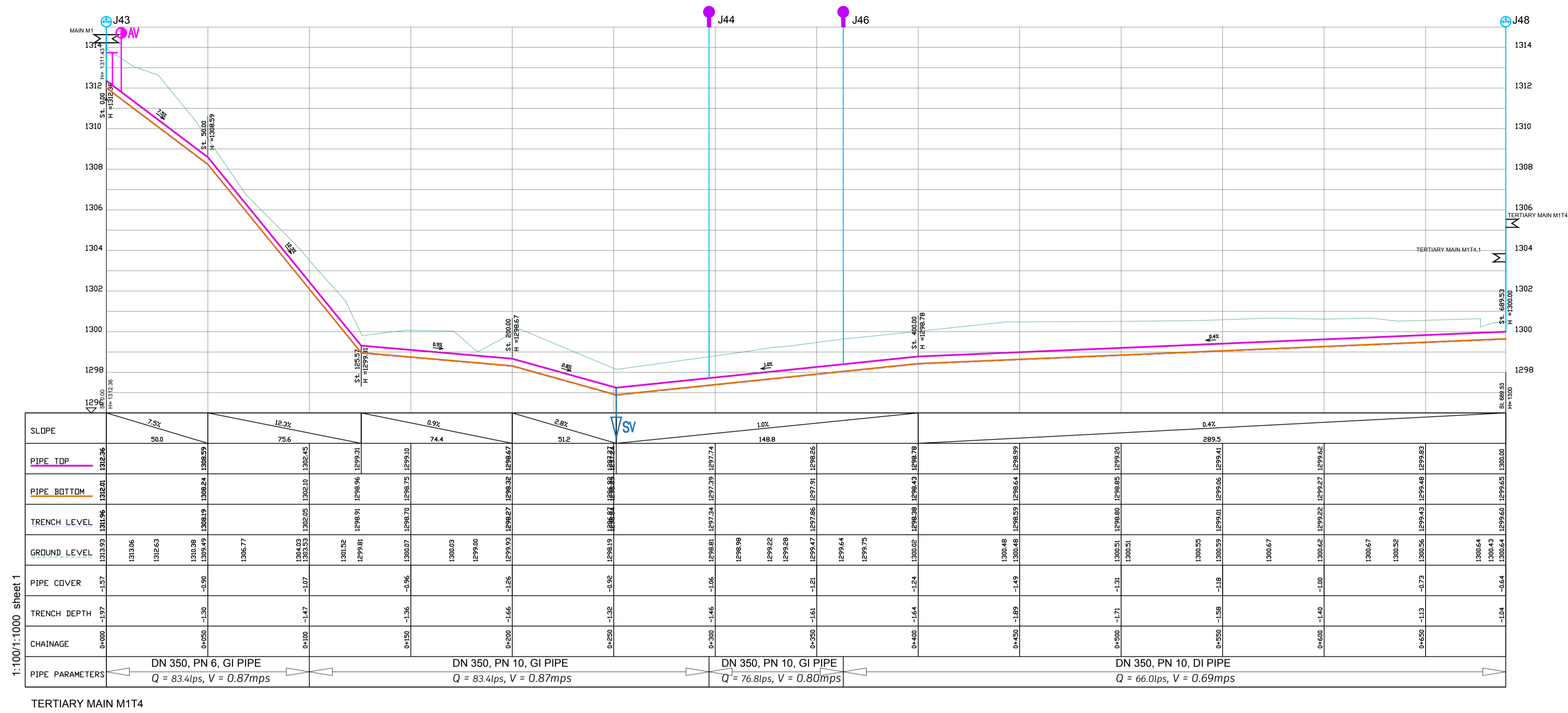
Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

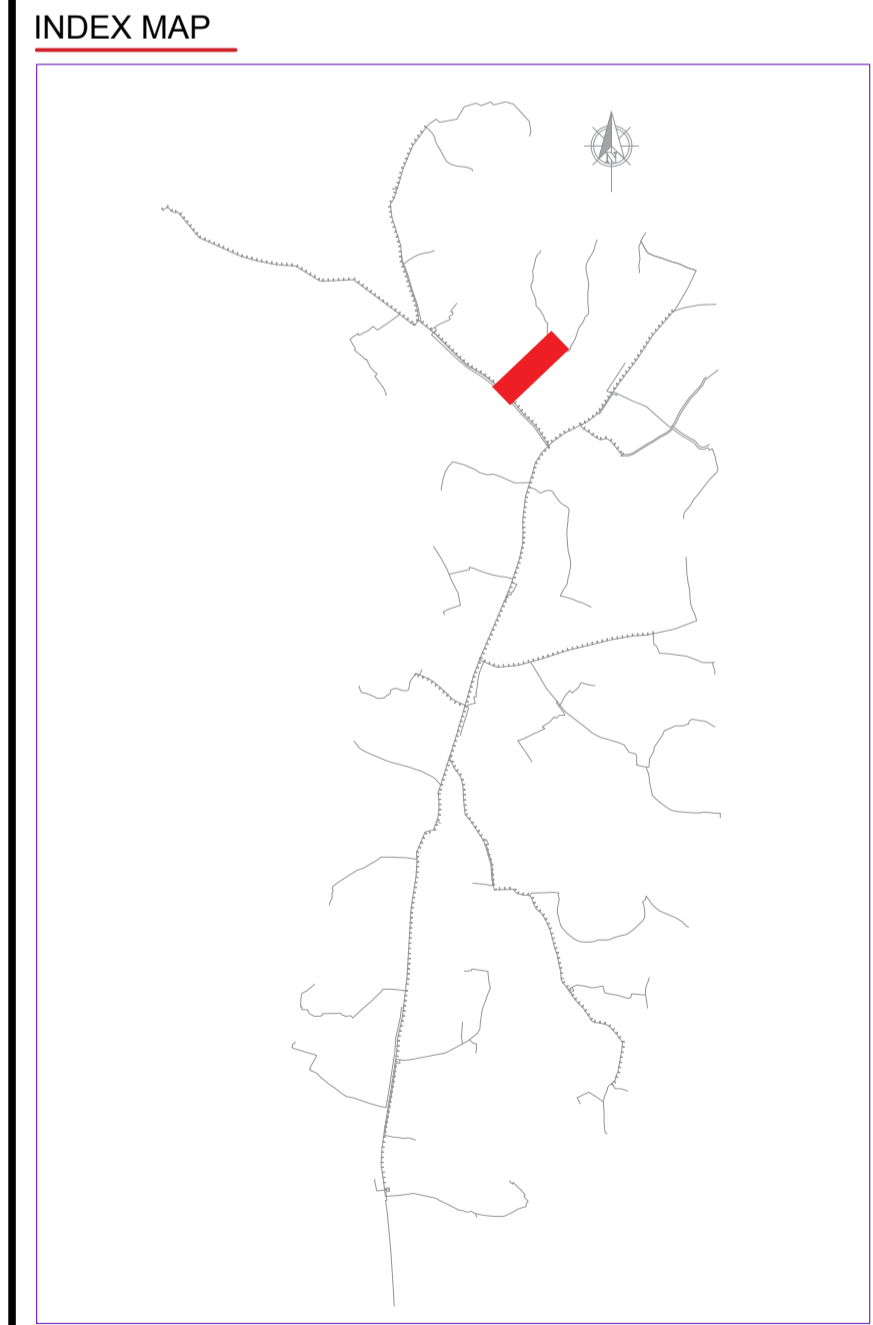
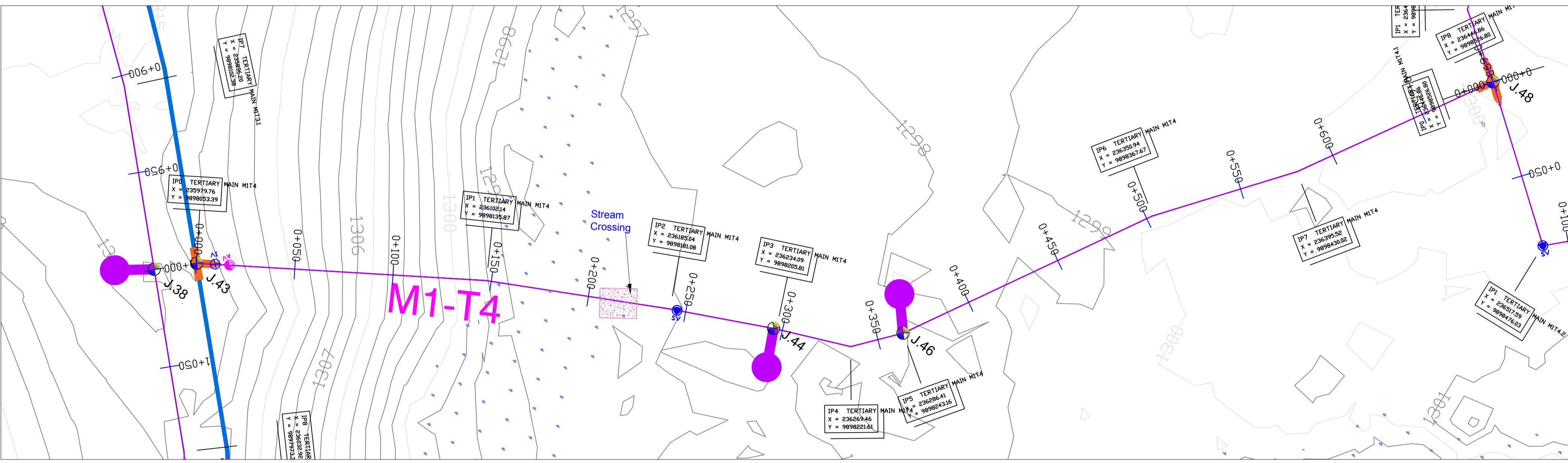
Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1T3.1**

Consultants: **aarvee associates**
aarchitects, engineers & consultants pvt. ltd.
Ravula Residency, Shree Colony Main Rd., Hyderabad-52, India
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e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO./MWE-KIS-NET-PP/M1T3-03 Date: APR 2022



- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

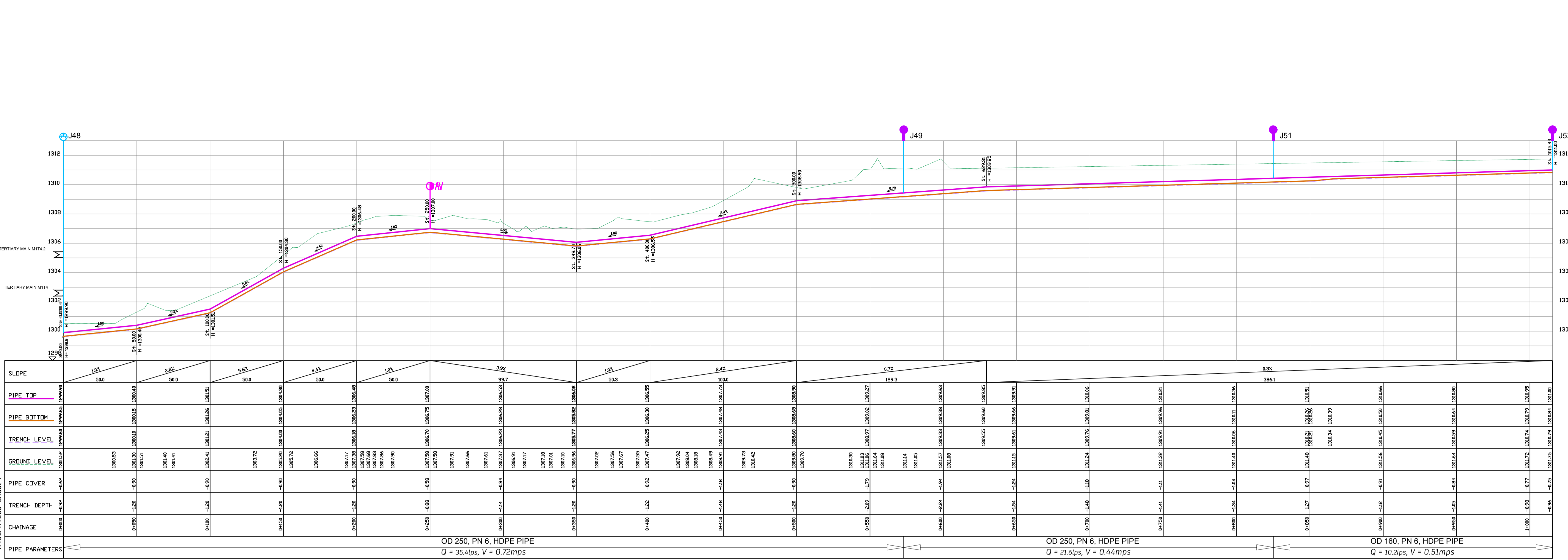
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

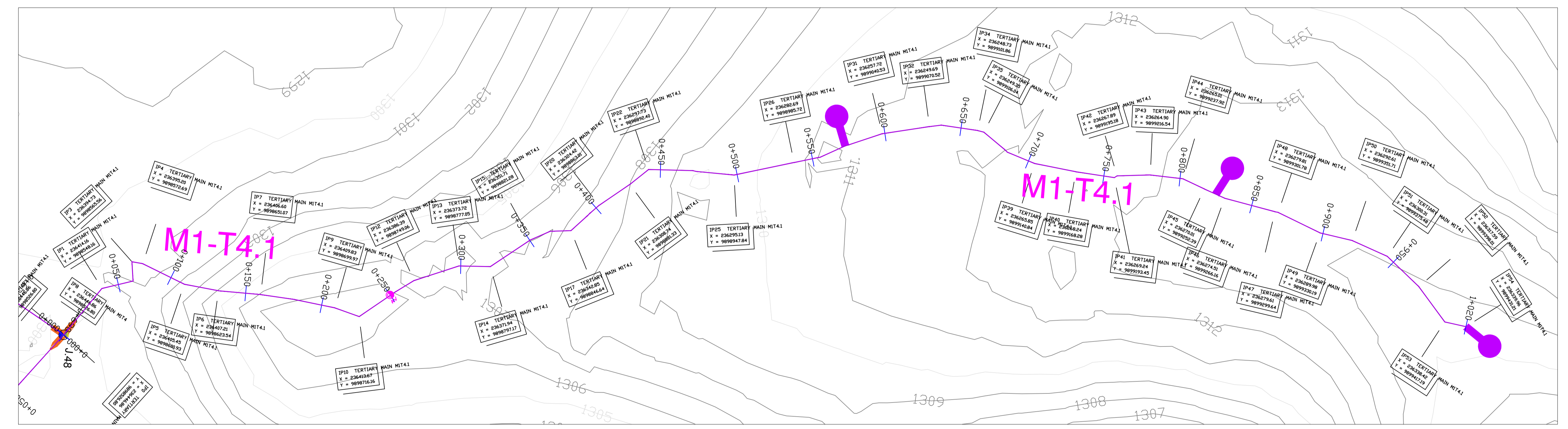
Title: **PLAN PROFILE OF PIPE LINE**
TERTIARY MAIN M1T4

Consultants: **arvee associates**
architects, engineers & consultants pvt. ltd.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33739333 Fax: +91-40-33739377
e-mail: irrigation@arvee.net, web: www.arvee.net

DRG. NO/MWE-KIS-NET-PP/M1T4-01 Date: APR 2022



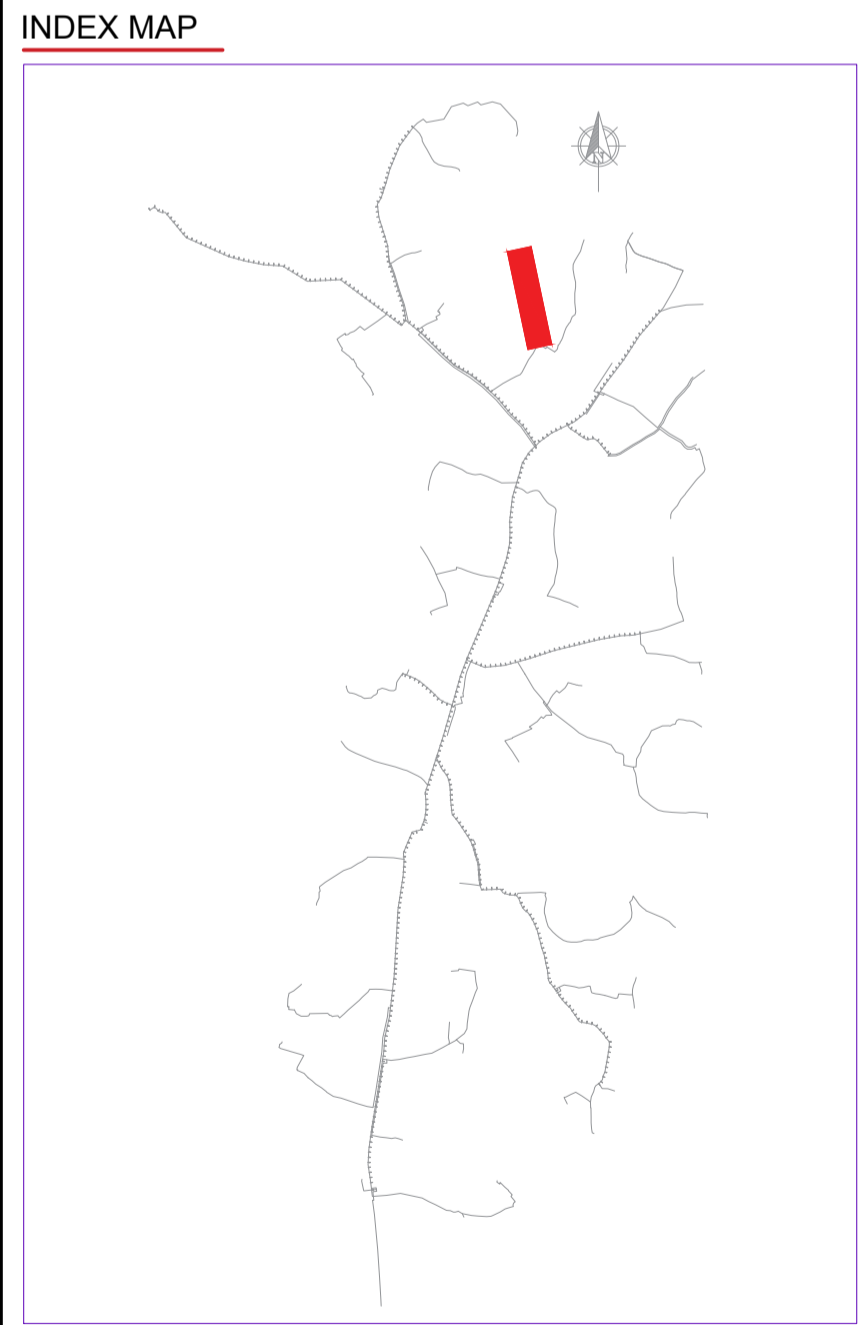
TERTIARY MAIN M1T4.1



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



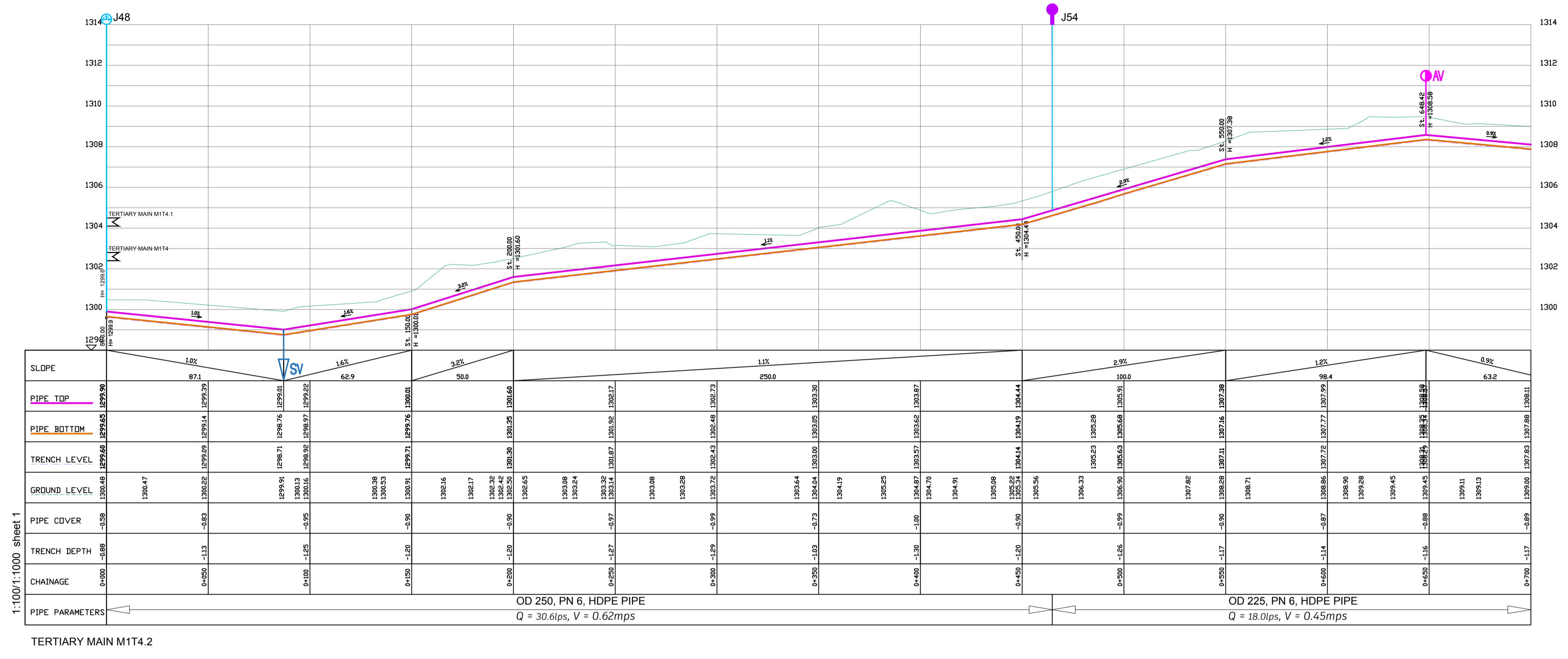
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Vertical 1 : 100

Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

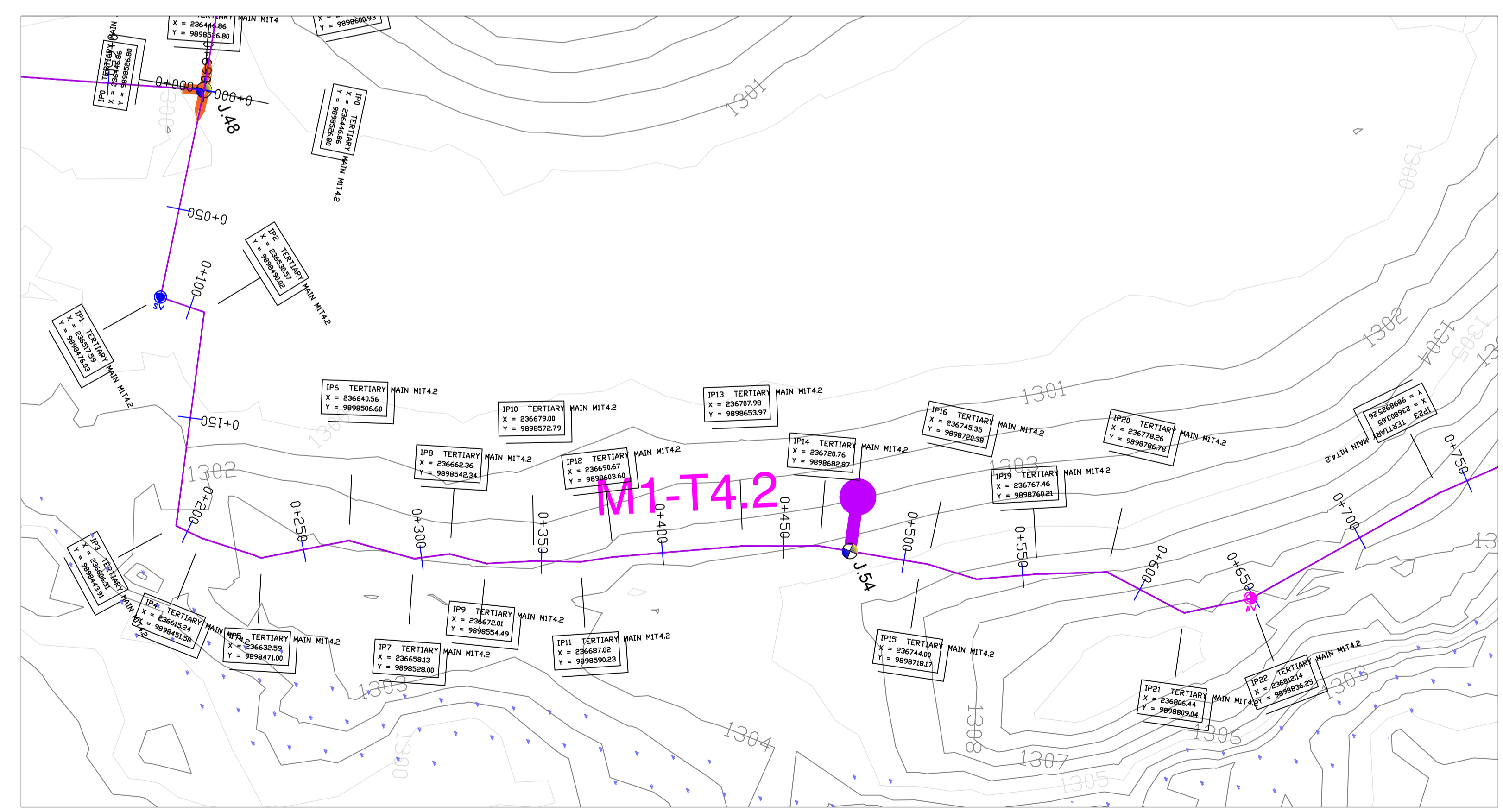
Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1T4.1**

Consultants: **aarvee associates**
aarchitects engineers & consultants pvt.ltd.
Ravula Residency, Shree Colony Main Rd., Hyderabad-52, India
Tel: +91-40-33379333 Fax: +91-40-33379377
e-mail: irrigation@aarvee.net, web: www.aarvee.net



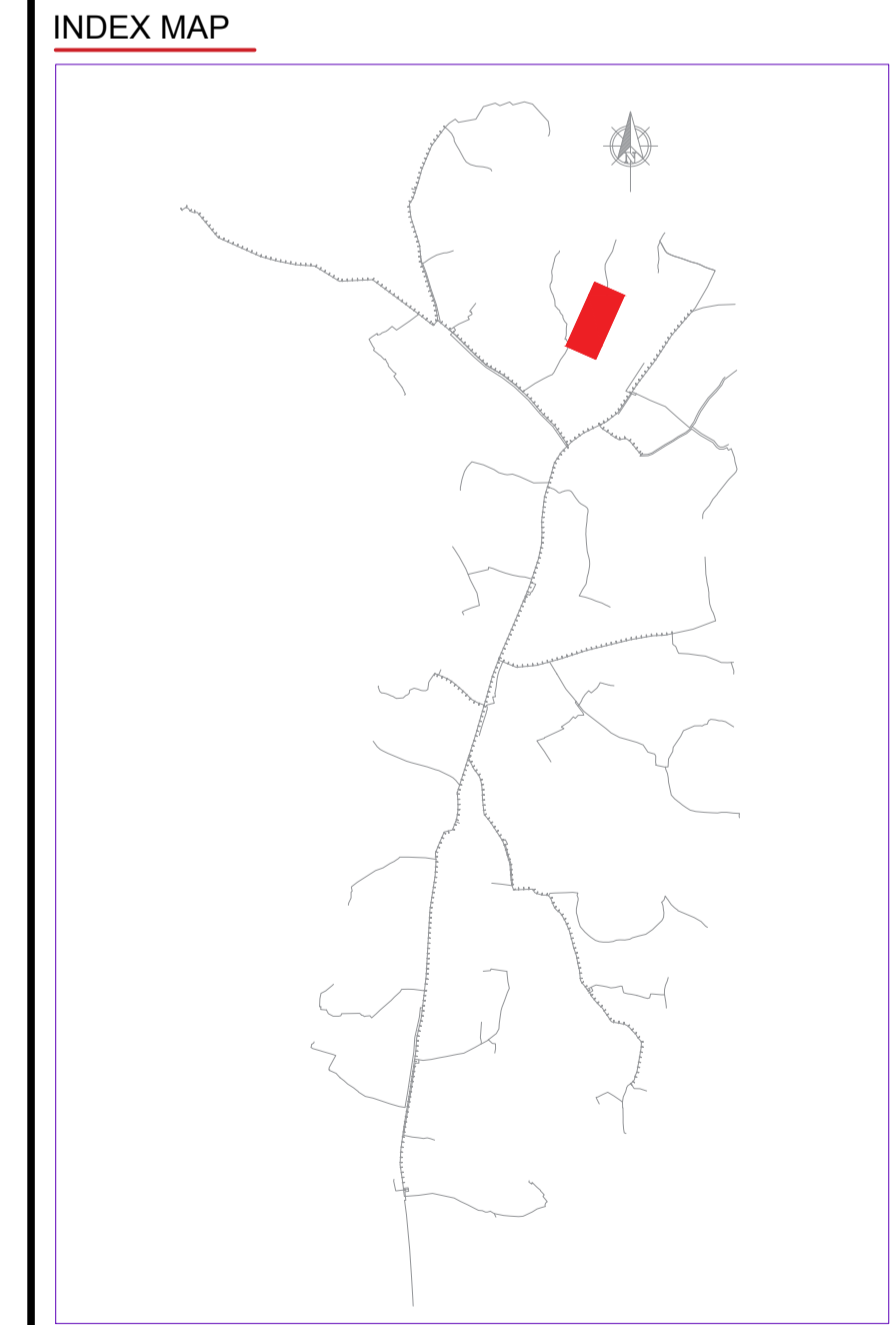
TERTIARY MAIN M1T4.2



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



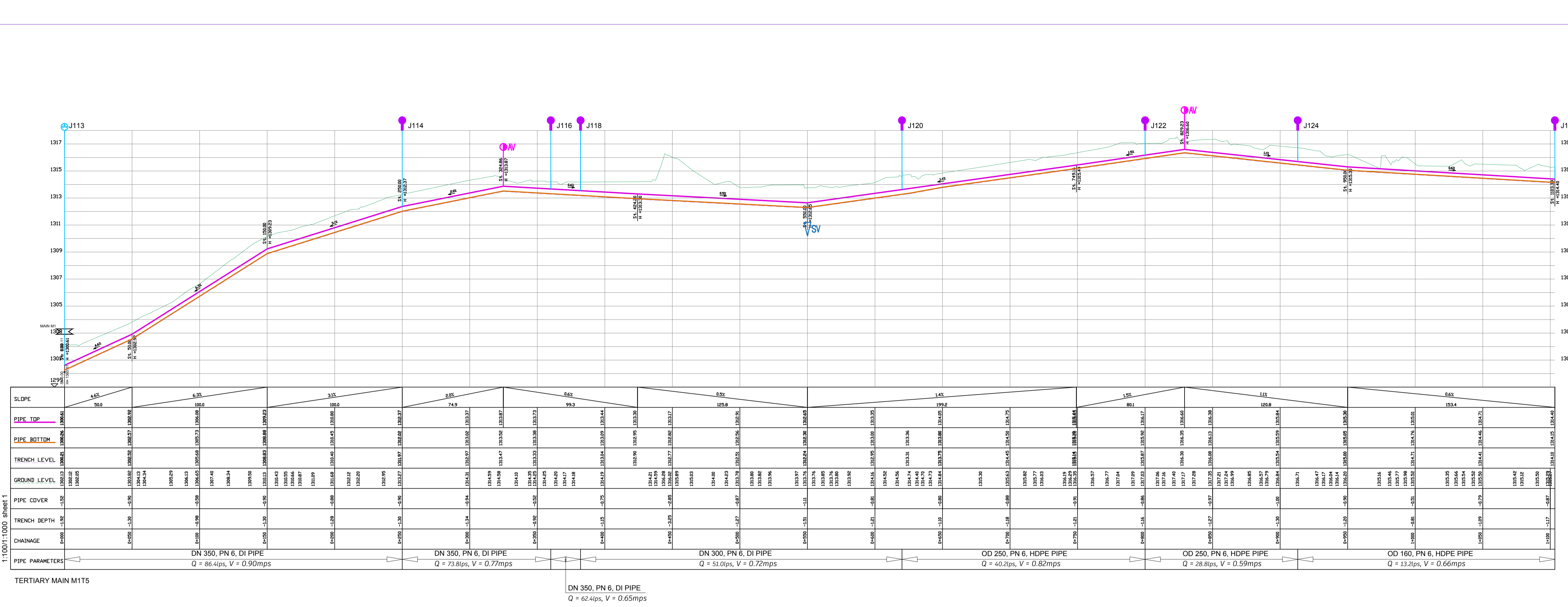
Scale: Horizontal 1: 1000
Vertical 1: 100

Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1T4.2**

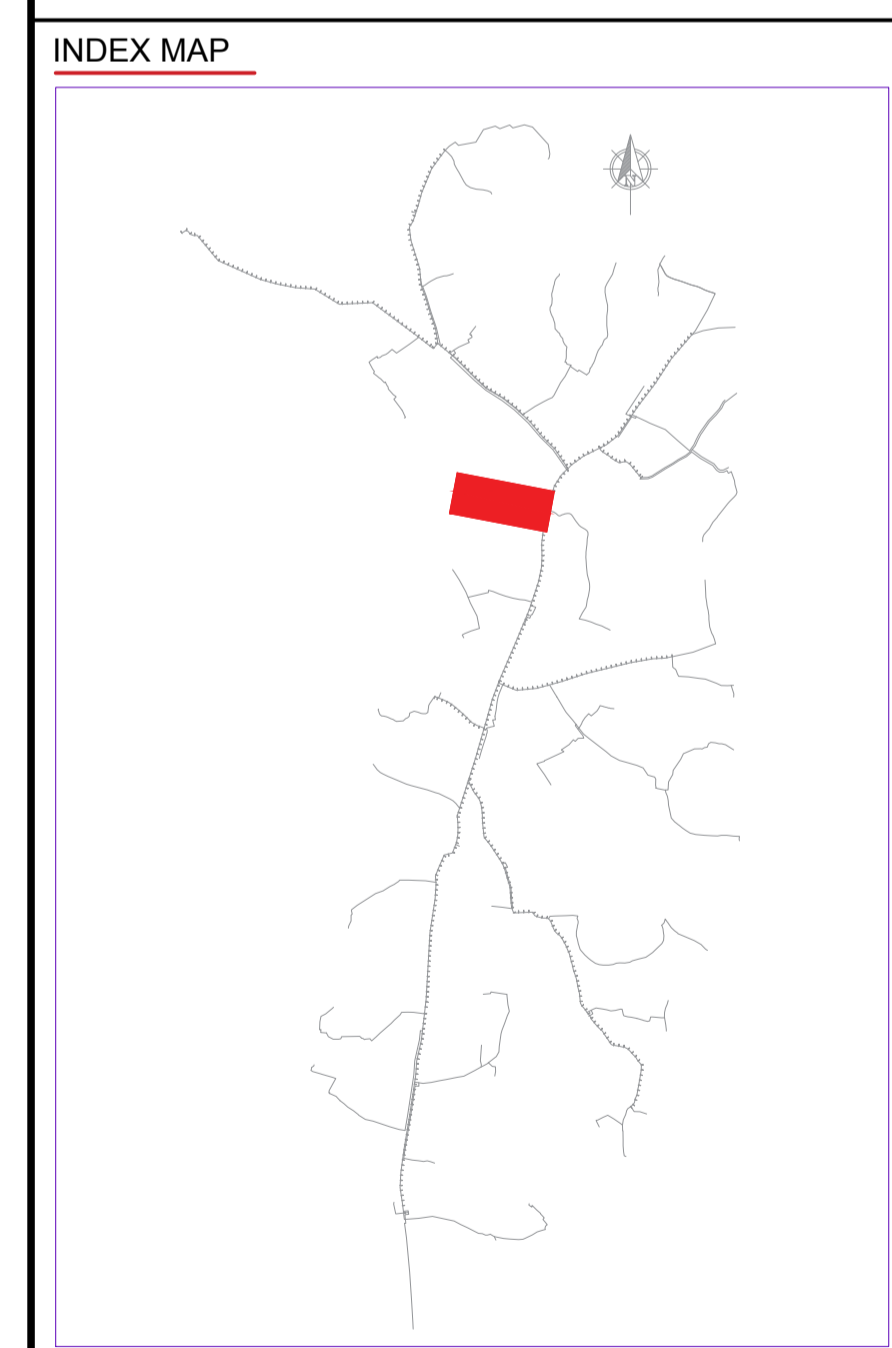
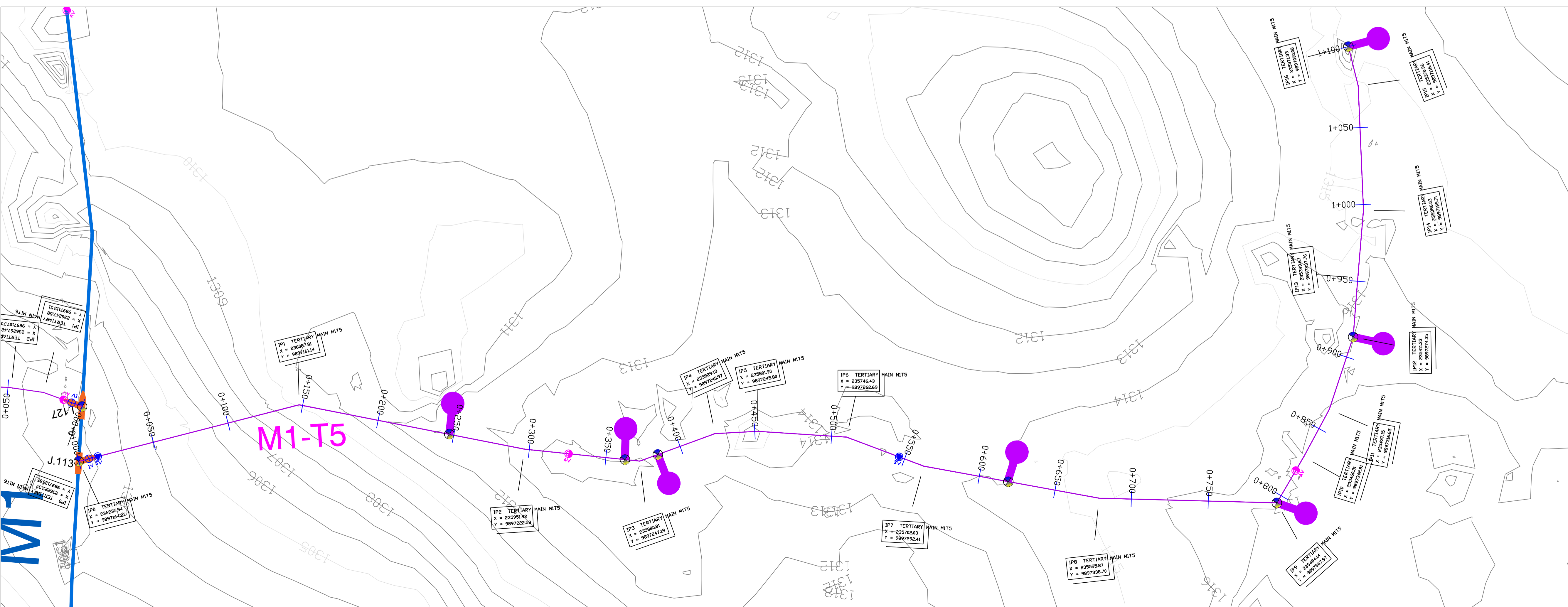
Consultants: **aarvee associates**
aarvee associates engineers & consultants pvt. ltd.
Ravula Residency, Shreejaya Colony Main Rd., Hyderabad-52, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net, web: www.aarvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1: 1000, Vertical 1: 100

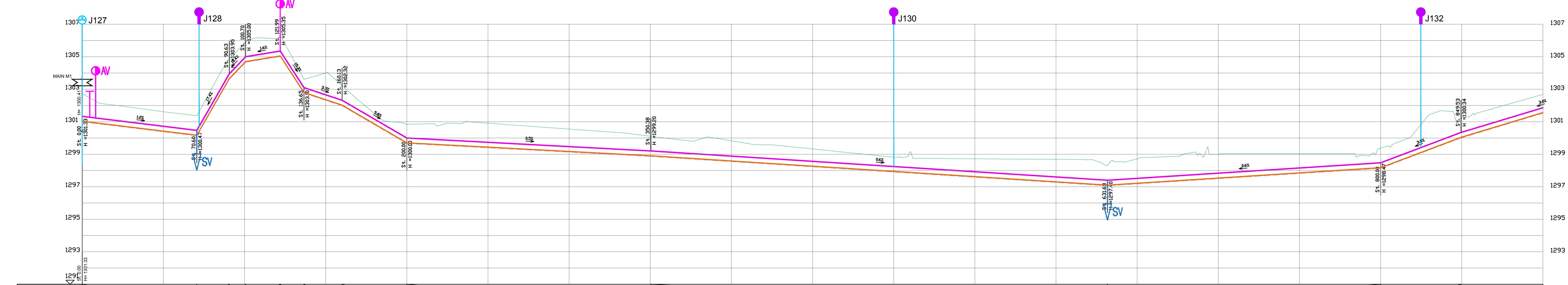
Client: REPUBLIC OF UGANDA, MINISTRY OF WATER AND ENVIRONMENT

Project: KABUYANDA IRRIGATION SCHEME

Title: PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1T5

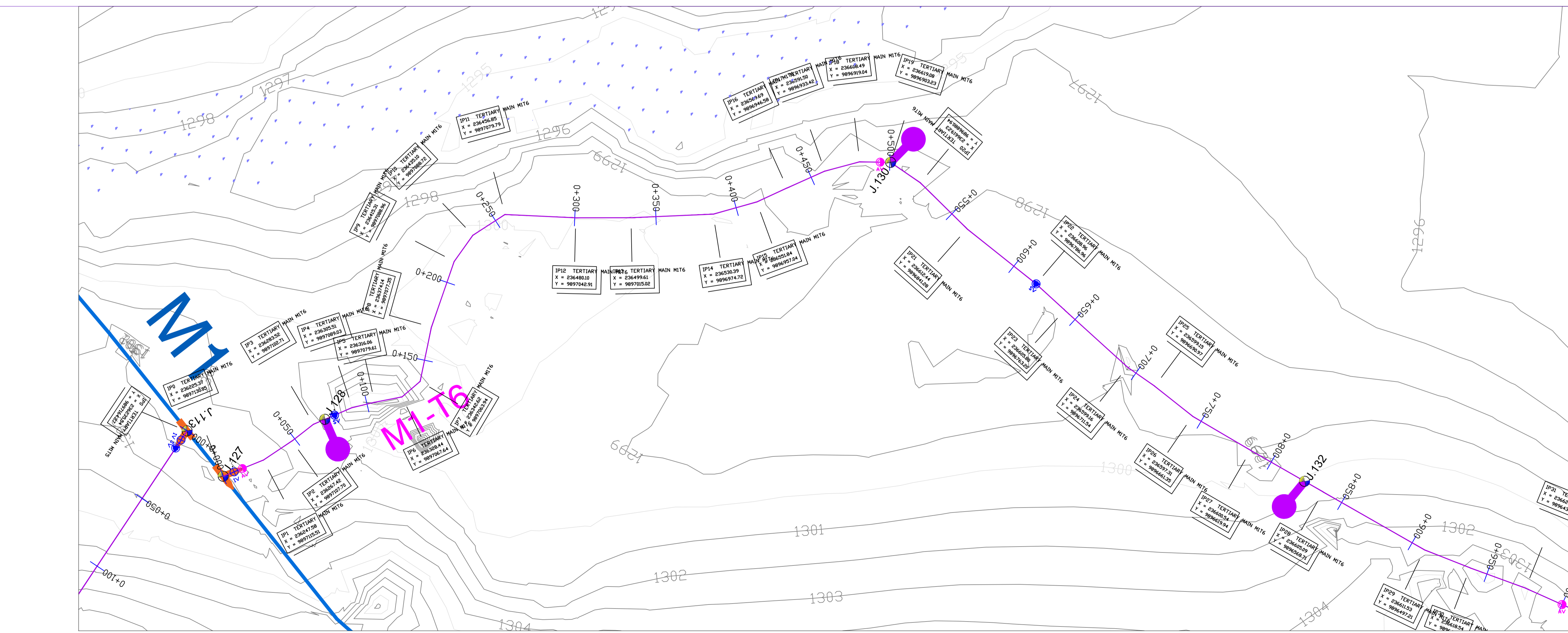
Consultants: aarvee associates

DRG. NO/MWE-KIS-NET-PP/M1T5-01 | Date: APR 2022



PIPE PARAMETERS	DN 300, PN 6, DI PIPE	DN 300, PN 6, DI PIPE	DN 300, PN 10, DI PIPE	DN 300, PN 10, DI PIPE	OD 250, PN 10, HDPE PIPE
Q	79.8lps, V = 1.13mps	Q = 69.0lps, V = 0.98mps	Q = 69.0lps, V = 0.98mps	Q = 56.4lps, V = 0.8mps	Q = 43.8lps, V = 0.89mps

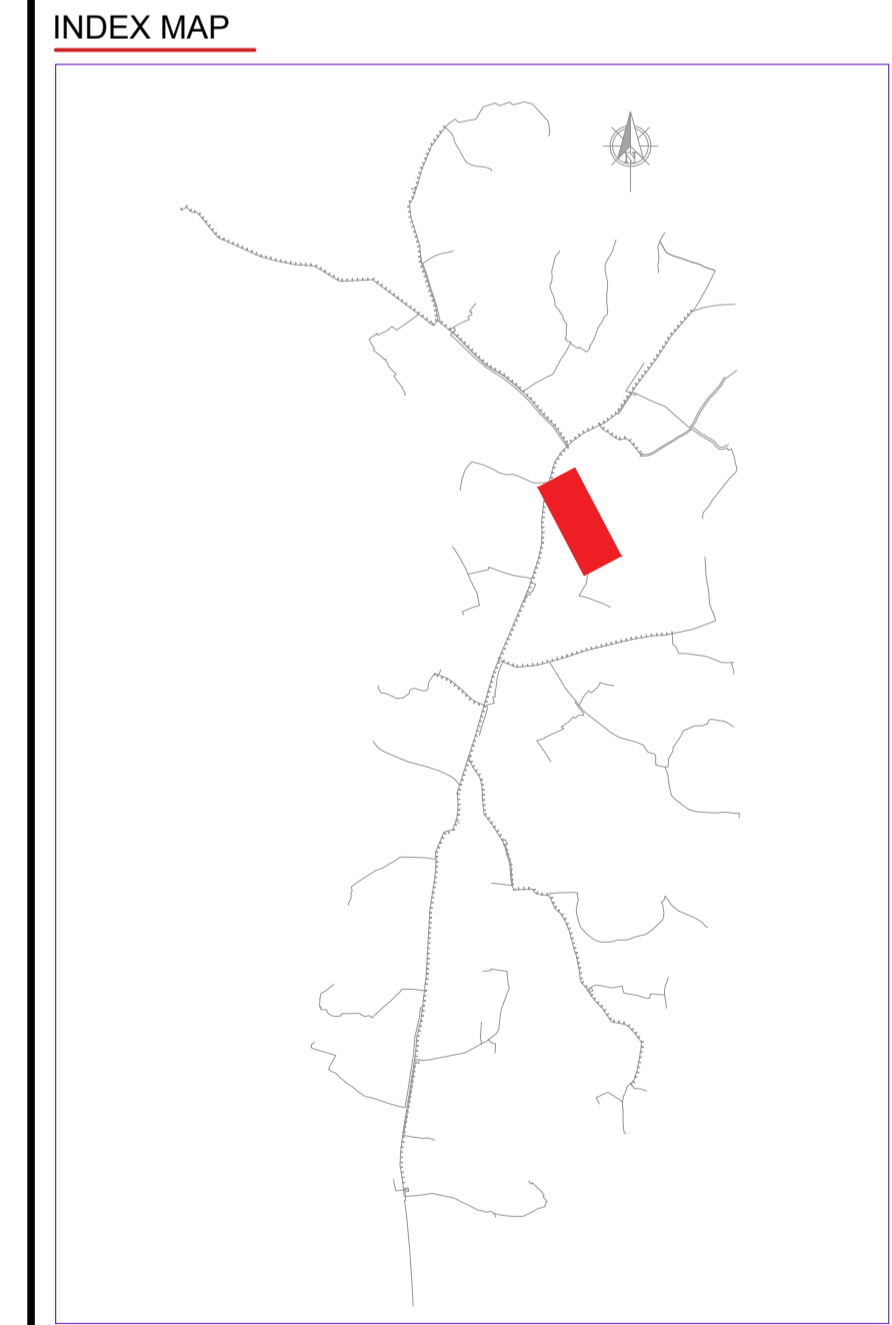
TERTIARY MAIN M1T6



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



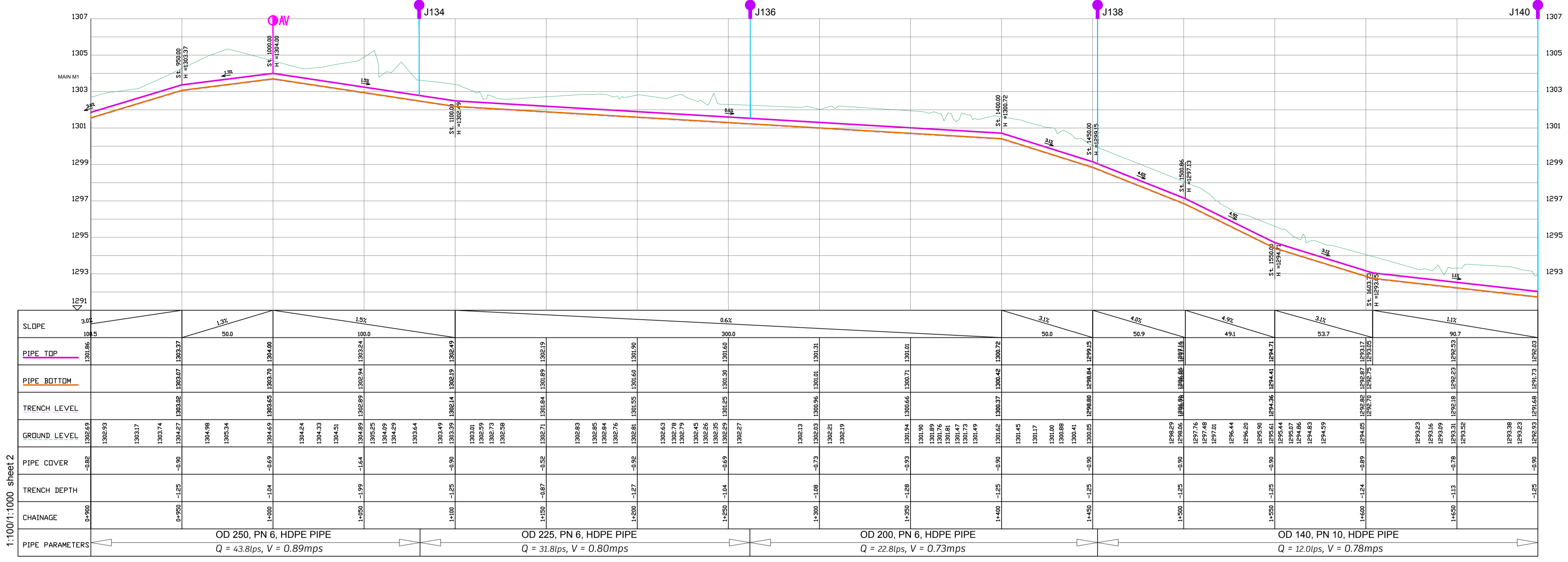
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

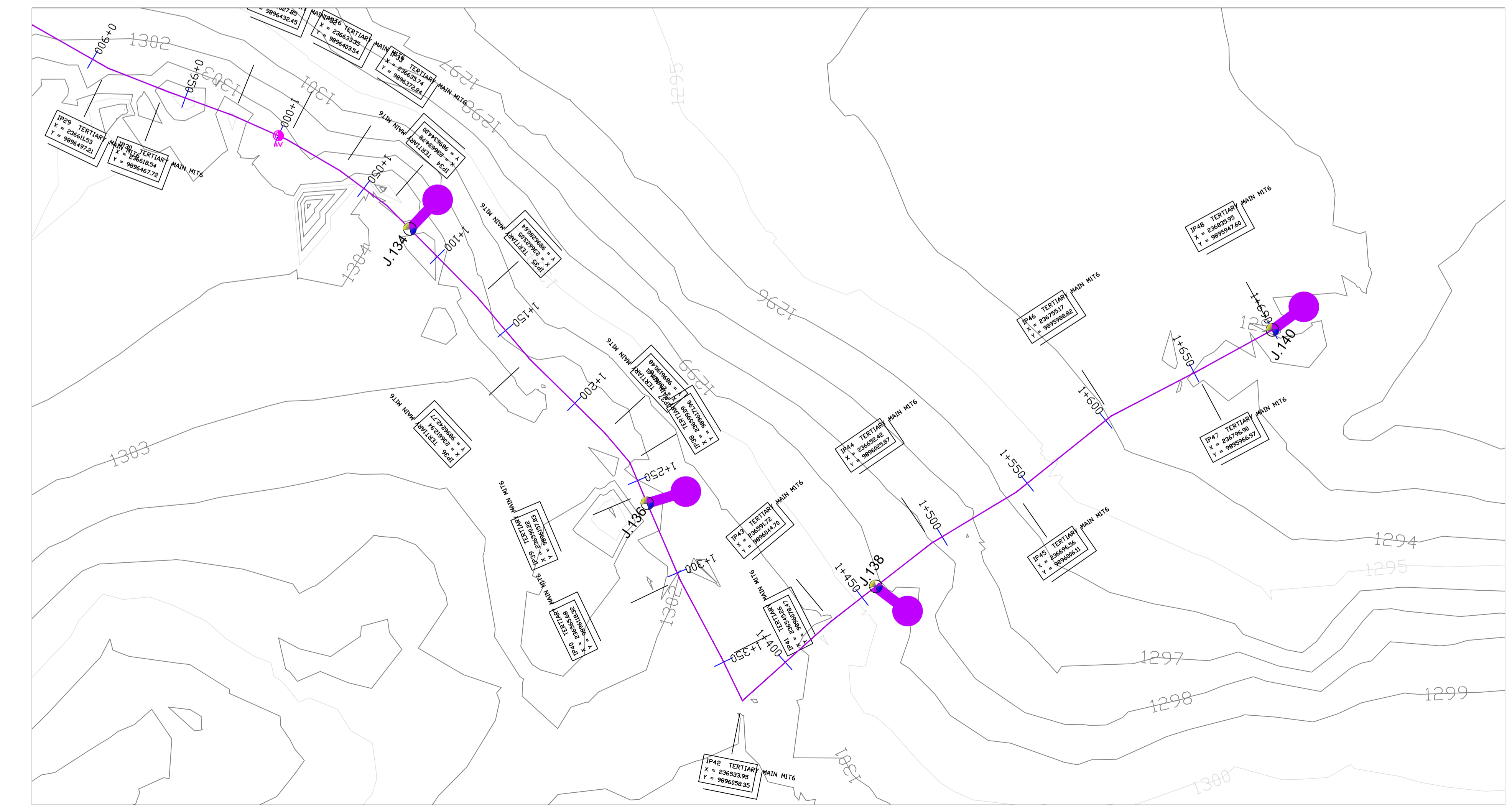
Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1T6**

Consultants: **aarvee associates**
aarvee associates pvt. ltd.
Ravula Residency, Shreejaya Main Rd., Hyderabad 52, India
Tel: +91-40-3379333 Fax: +91-40-3379377
e-mail: irrigation@aarvee.net, web: www.aarvee.net



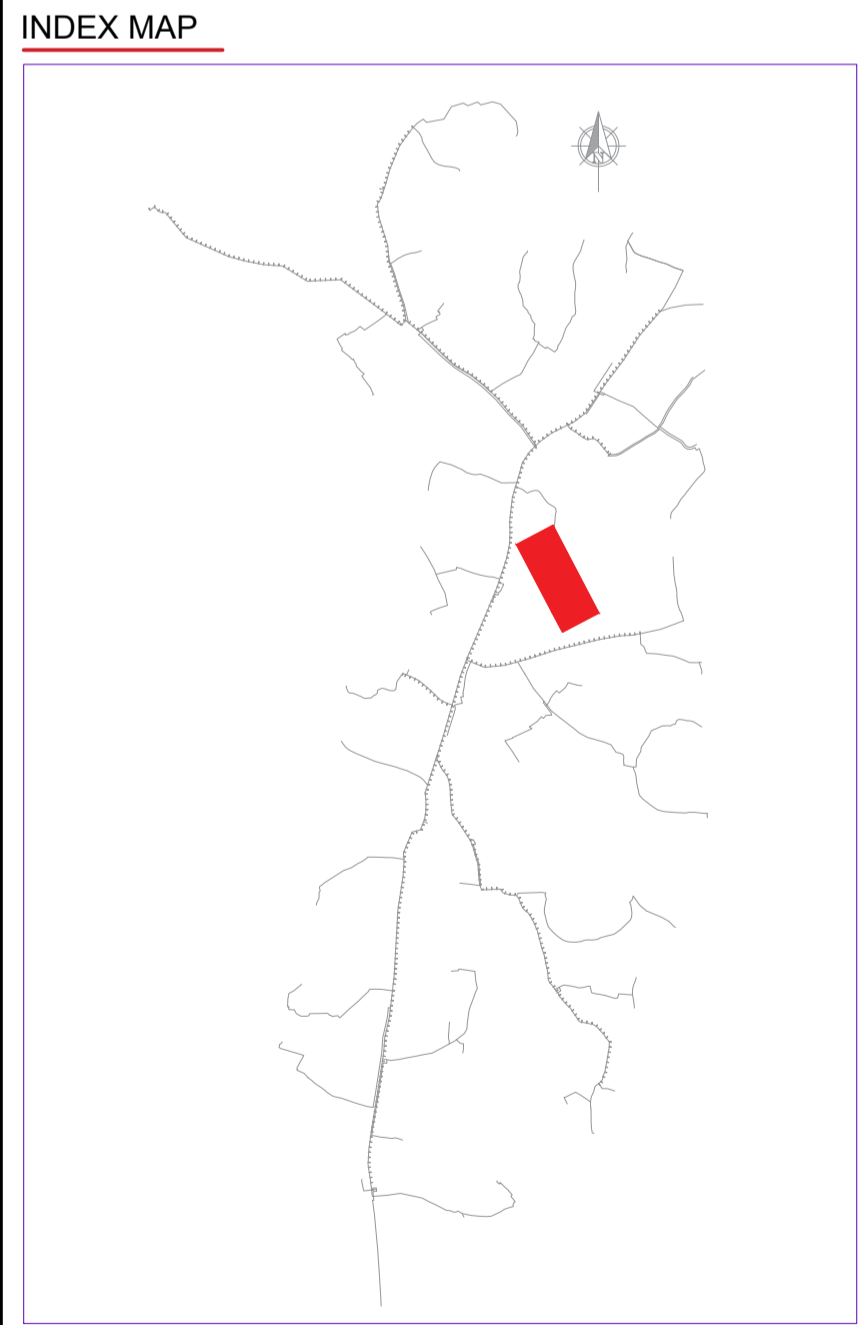
TERTIARY MAIN M1T6



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



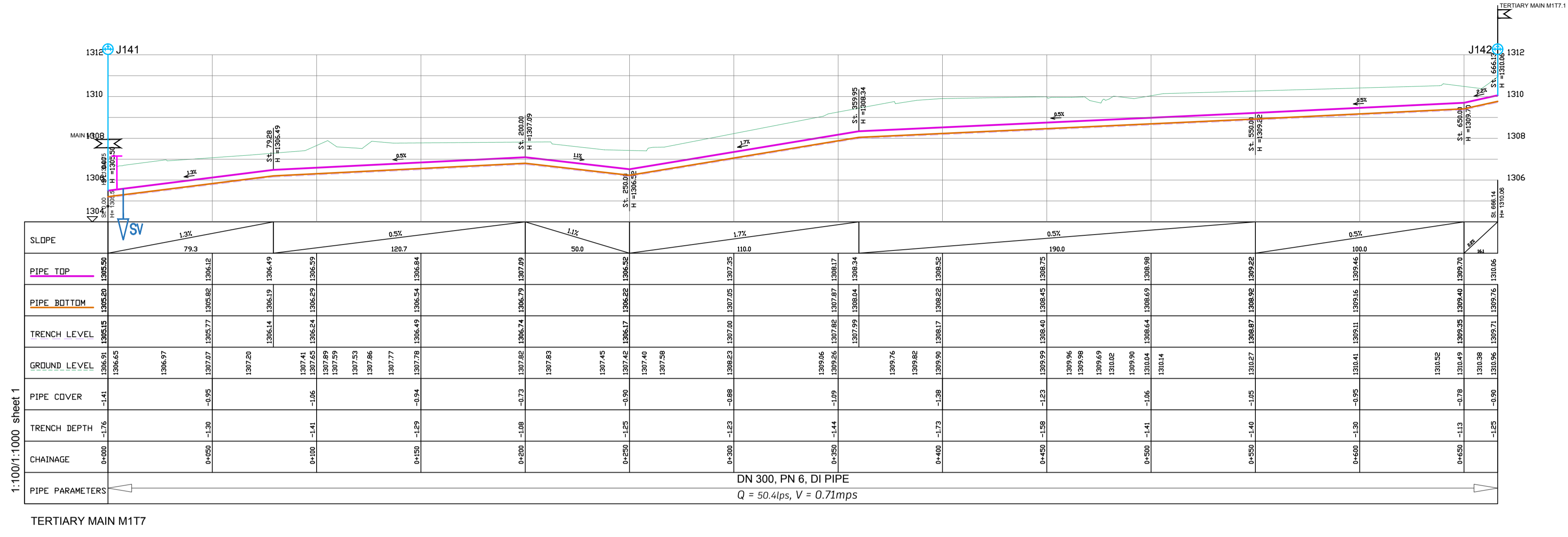
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Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
TERTIARY MAIN M1T6

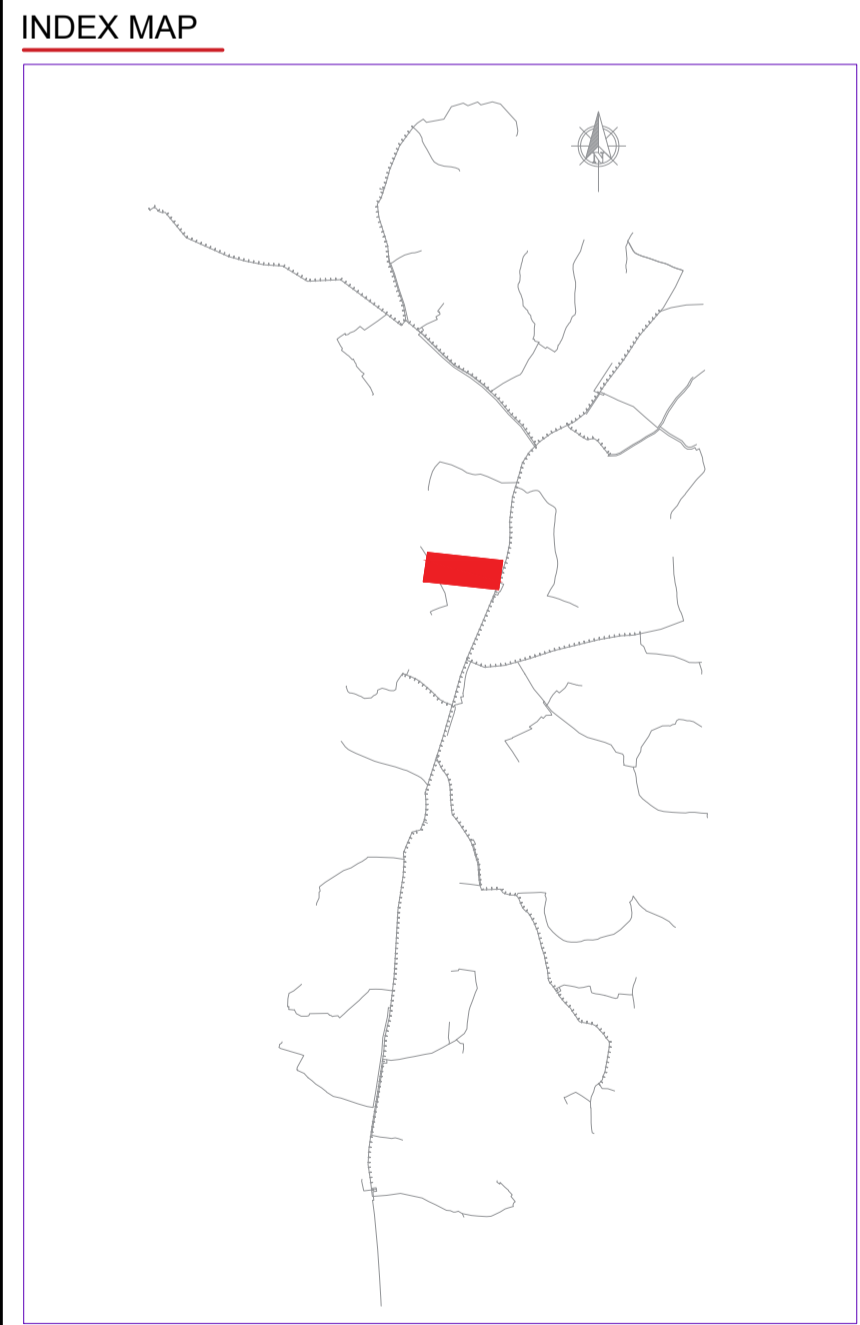
Consultants: **arvee associates**
arvee associates pvt. ltd.
Ravula Residency, Shree Colony Main Rd., Hyderabad 52, India
Tel: +91-40-3373533 Fax: +91-40-3373677
e-mail: irrigation@arvee.net, web: www.arvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
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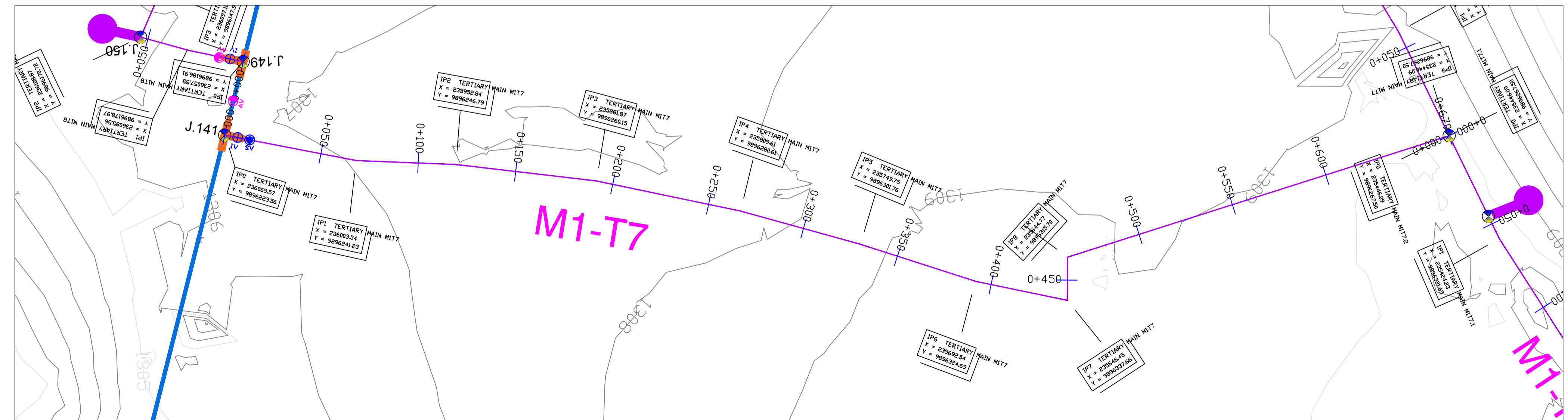
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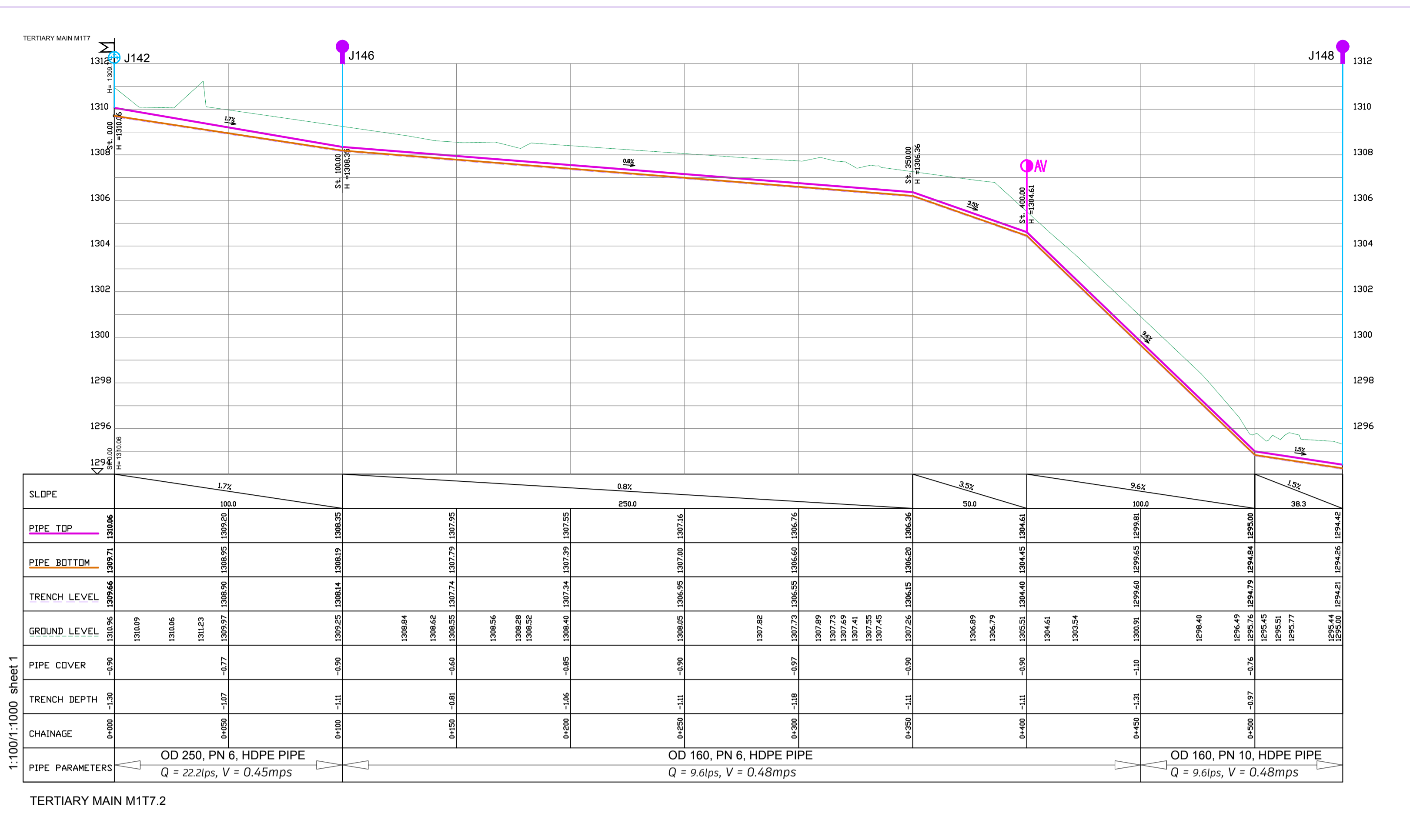
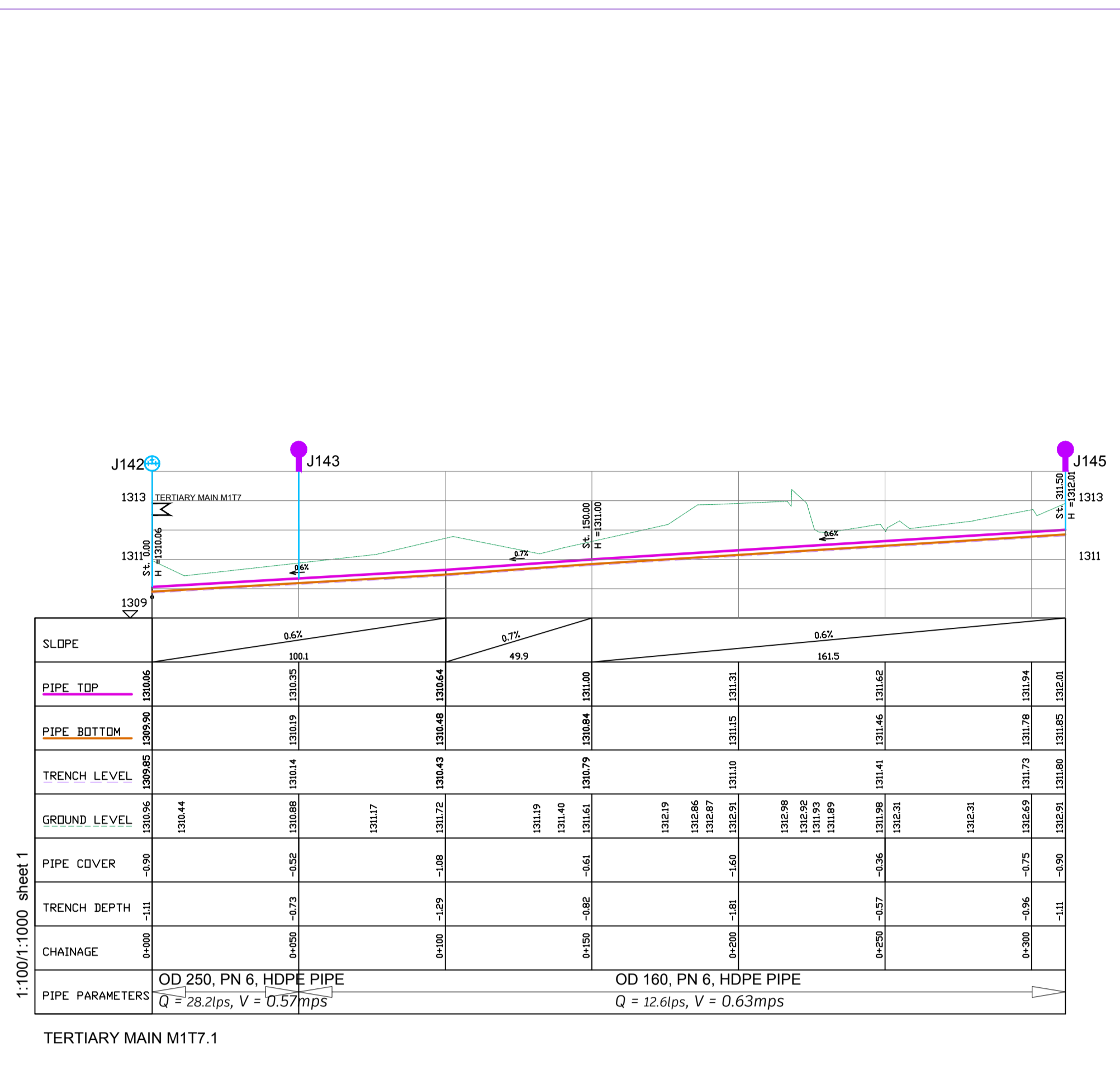
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1T7**

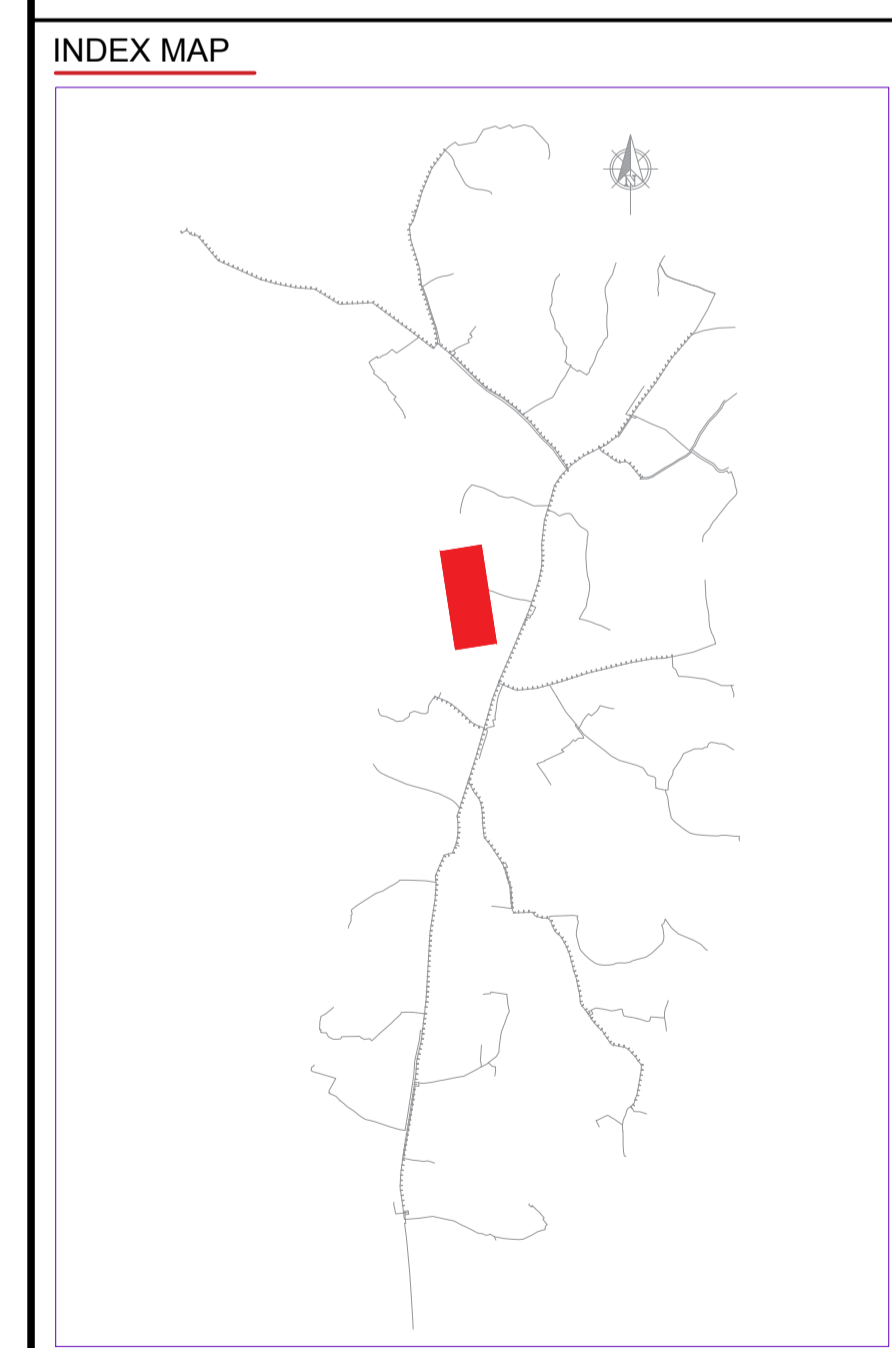
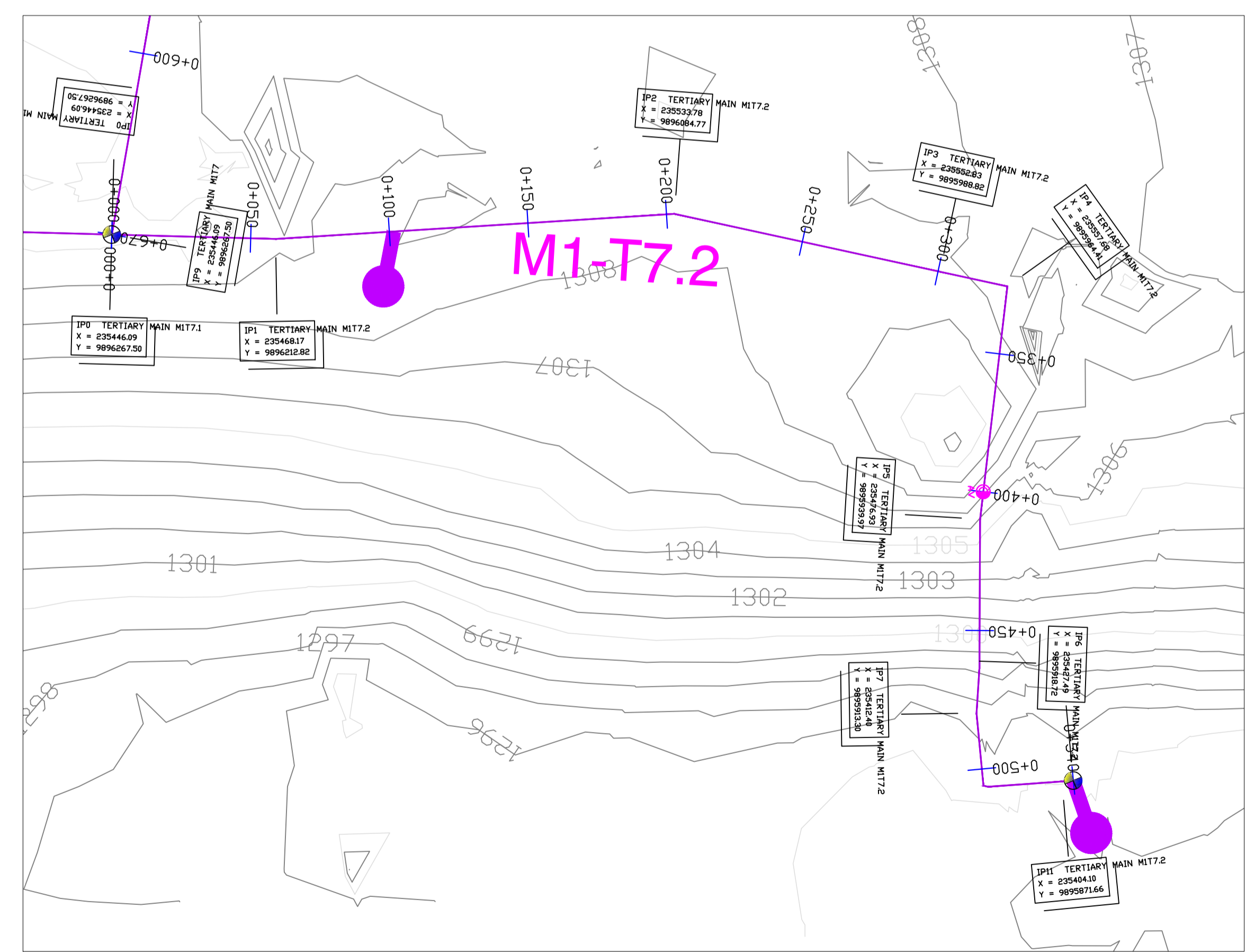
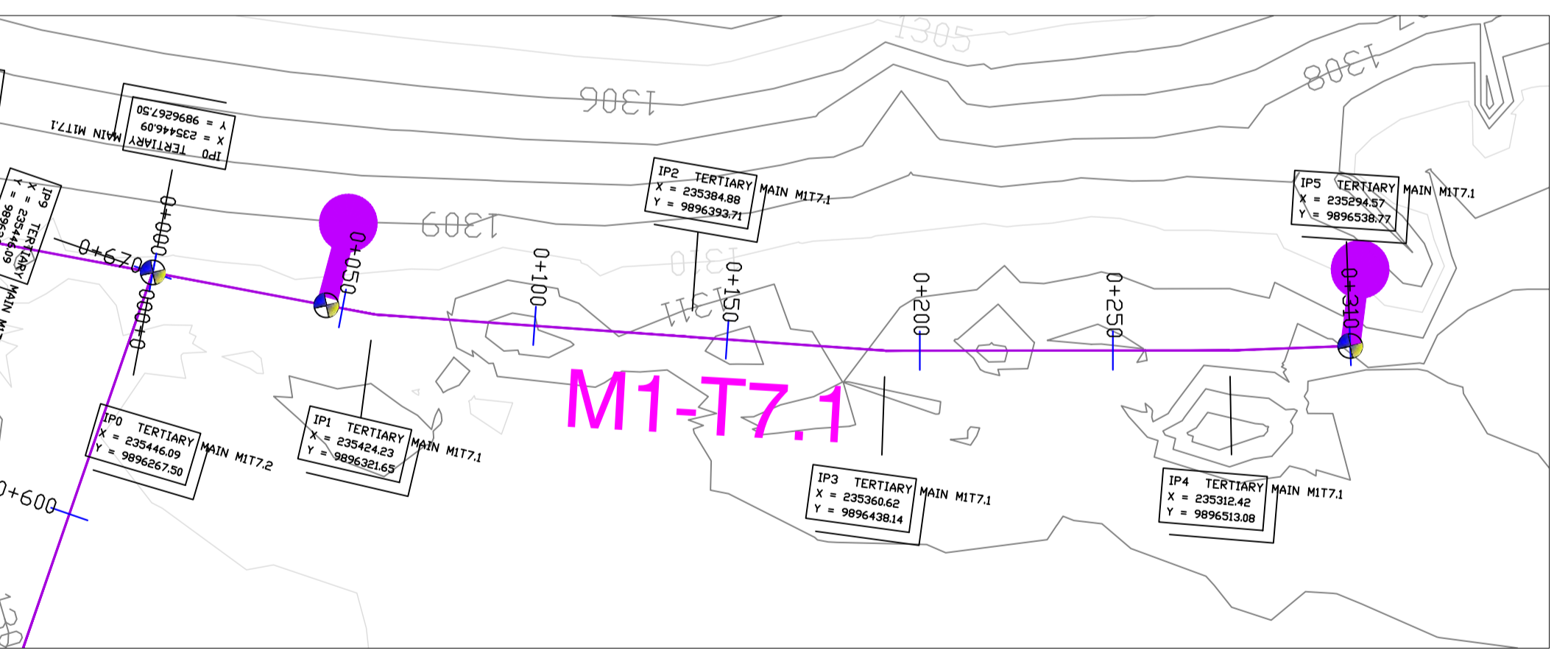
Consultants: **aarvee associates**
aarvee associates & consultants pvt. ltd.
Ravula Residency, Shreejaya Main Rd., Hyderabad 52, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net, web: www.aarvee.net





- LEGEND**
- GROUND LEVEL
 - PIPE TOP
 - PIPE BOTTOM
 - TRENCH BOTTOM
 - JUNCTION LOCATIONS
 - AIR VALVE On Profile View
 - AIR VALVE On Plan View
 - SCOUR VALVE On Profile View
 - SCOUR VALVE On Plan View
 - ISOLATION VALVE On Profile View
 - ISOLATION VALVE On Plan View
 - ANTI-SURGE VALVE On Profile View
 - ANTI-SURGE VALVE On Plan View
 - PIPE T-JUNCTION On Profile View
 - PIPE CROSS-JUNCTION On Profile View
 - BLOCK HYDRANT

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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

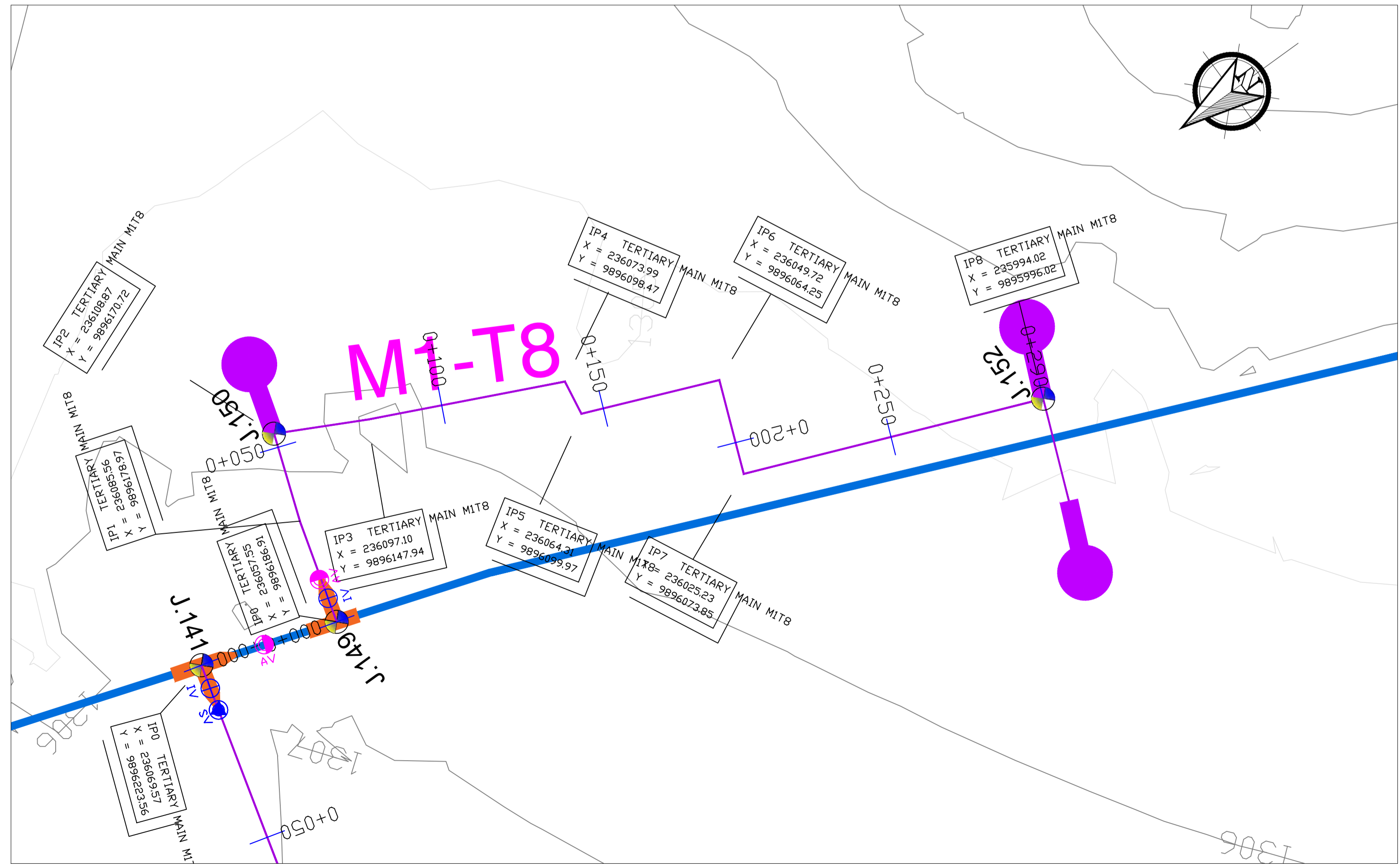
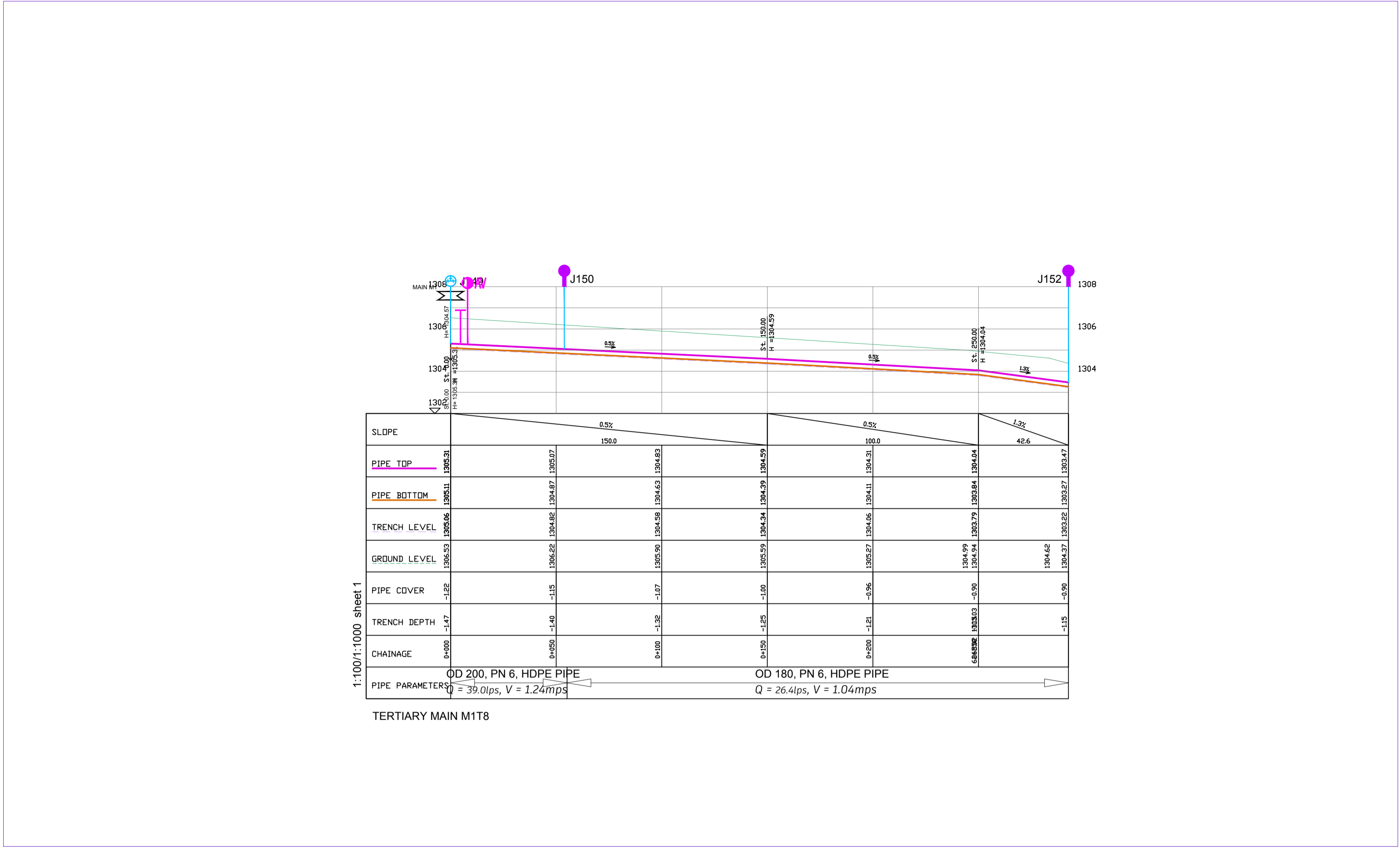
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M1T7.1, AND M1T7.2**

Consultants: **aarvee associates**
aarchitects, engineers & consultants pvt. ltd.
Ravula Residency, Shreejaya Colony Main Rd., Hyderabad-62, India
Tel: +91-40-33739333 Fax: +91-40-23736277
e-mail: irrigation@aarvee.net, web: www.aarvee.net

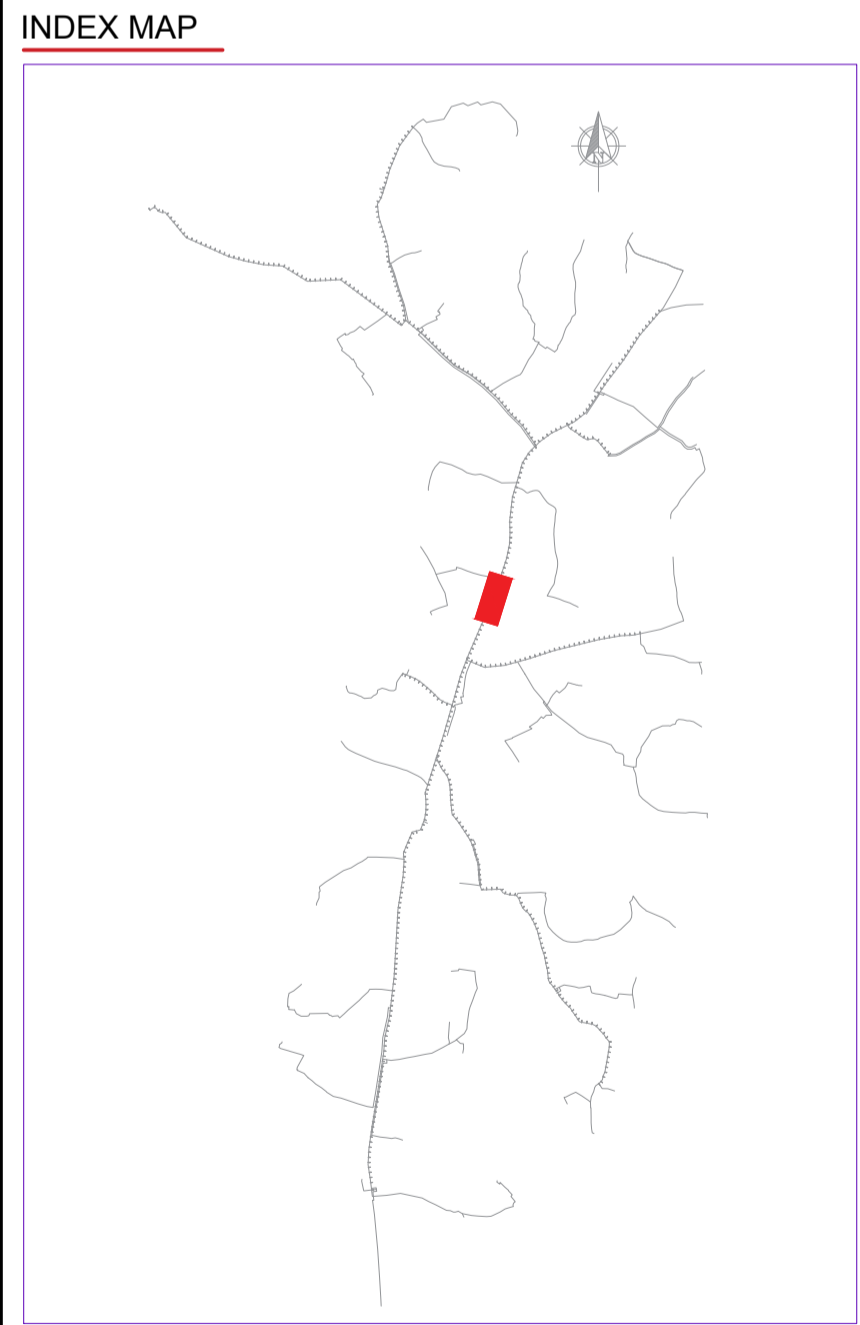
DRG. NO/MWE-KIS-NET-PP/M1T7-02 Date: APR 2022



LEGEND

	GROUND LEVEL		PIPE TOP
	PIPE BOTTOM		TRENCH BOTTOM
	JUNCTION LOCATIONS		AIR VALVE On Profile View
	AIR VALVE On Plan View		SCOUR VALVE On Profile View
	SCOUR VALVE On Plan View		ISOLATION VALVE On Profile View
	ISOLATION VALVE On Plan View		ANTI-SURGE VALVE On Profile View
	ANTI-SURGE VALVE On Plan View		PIPE T-JUNCTION On Profile View
	PIPE T-JUNCTION On Plan View		PIPE CROSS-JUNCTION On Profile View
	PIPE CROSS-JUNCTION On Plan View		BLOCK HYDRANT

- NOTES**
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

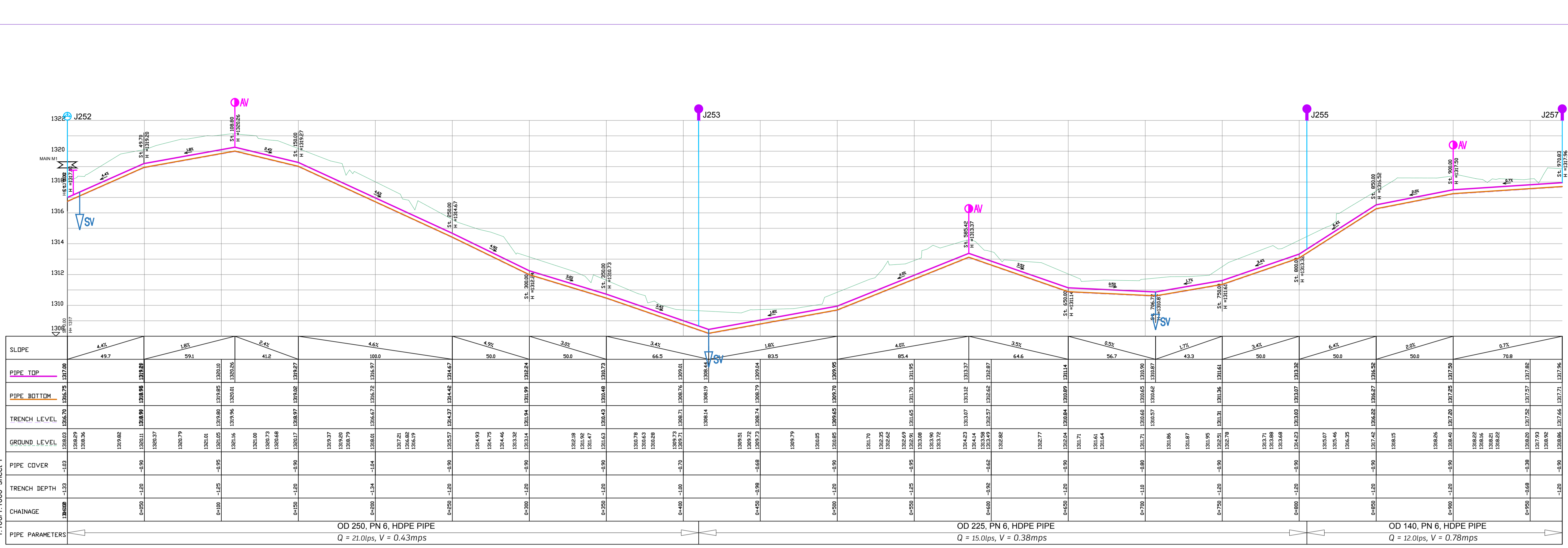
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
TERTIARY MAIN M1T8

Consultants: **aarvee associates**
aarvee associates engineers & consultants pvt. ltd.
Ravula Residency, Shreejaya Colony Main Rd., Hyderabad-62, India
Tel: +91-40-33737633 Fax: +91-40-23736277
e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO. /MWE-KIS-NET-PP/M1T8-01 Date: APR 2022



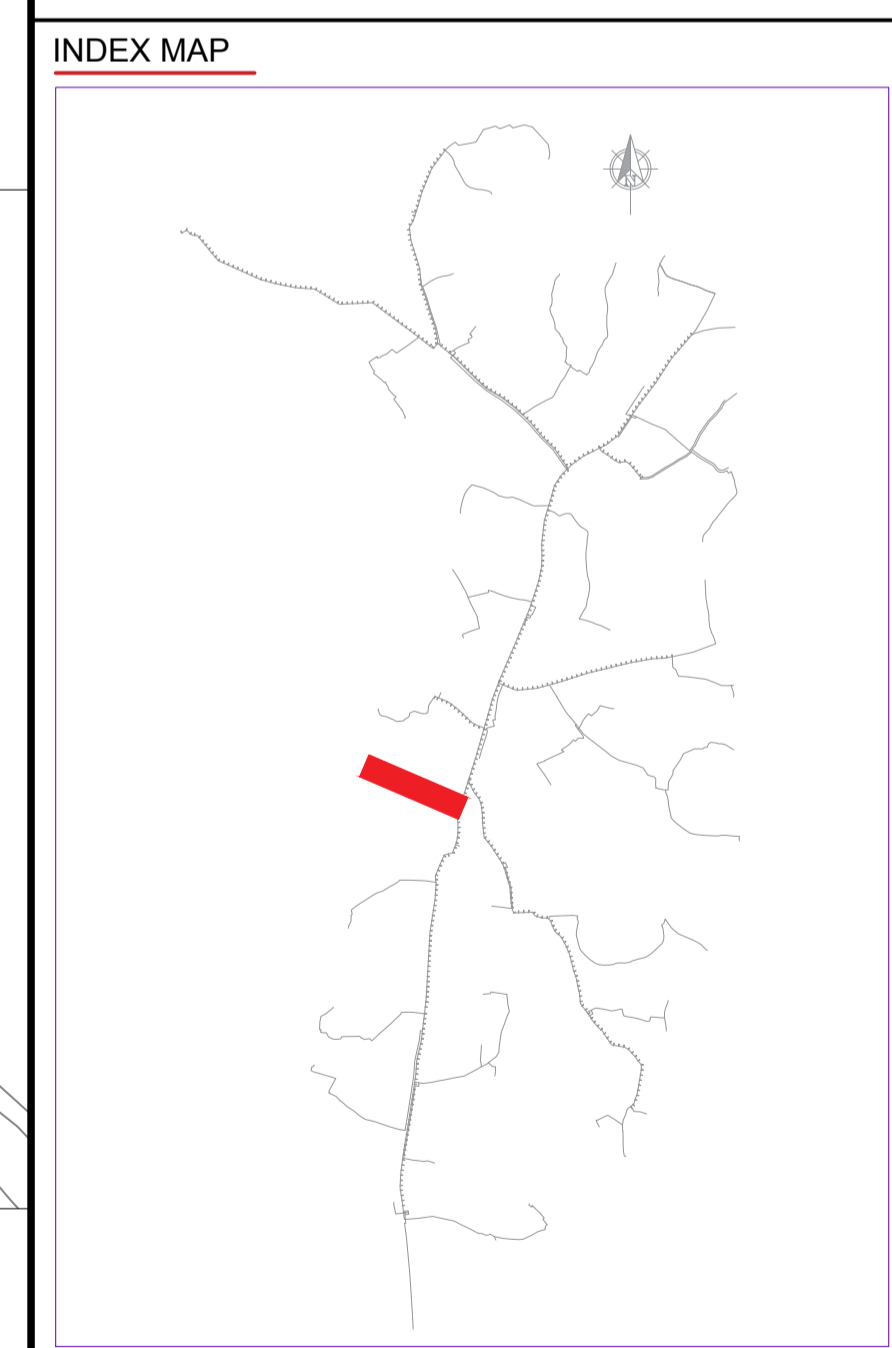
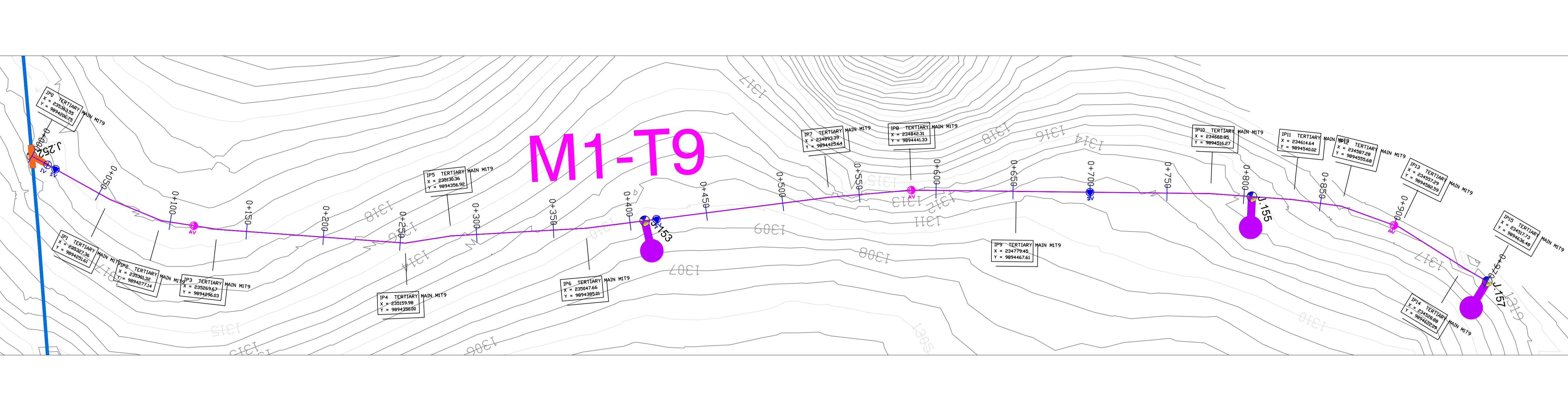
SLOPE	4.4%	1.8%	2.4%	4.6%	4.8%	3.0%	3.4%	1.8%	4.0%	3.3%	0.8%	1.7%	3.4%	6.4%	0.0%	0.7%
PIPE TOP	1317.96	1318.28	1318.06	1316.97	1314.67	1312.37	1310.45	1308.53	1306.61	1304.69	1302.77	1300.85	1300.85	1300.85	1300.85	1300.85
PIPE BOTTOM	1316.79	1316.98	1317.26	1315.57	1313.48	1311.39	1309.30	1307.21	1305.12	1303.03	1300.94	1298.85	1298.85	1298.85	1298.85	1298.85
TRENCH LEVEL	1316.79	1316.98	1317.26	1315.57	1313.48	1311.39	1309.30	1307.21	1305.12	1303.03	1300.94	1298.85	1298.85	1298.85	1298.85	1298.85
GROUND LEVEL	1318.49	1319.88	1320.11	1320.11	1319.37	1317.21	1314.93	1312.65	1310.37	1308.09	1305.81	1303.53	1301.25	1298.97	1296.69	1294.41
PIPE COVER	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53
TRENCH DEPTH	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53
CHAINAGE	0+00	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	0+1000	0+1100	0+1200	0+1300	0+1400	0+1500
PIPE PARAMETERS	OD 250, PN 6, HDPE PIPE Q = 21.0lps, V = 0.43mps							OD 225, PN 6, HDPE PIPE Q = 15.0lps, V = 0.38mps					OD 140, PN 6, HDPE PIPE Q = 12.0lps, V = 0.78mps			

TERTIARY MAIN M1T9

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- SCOUR VALVE On Profile View
- ISOLATION VALVE On Profile View
- ANTI-SURGE VALVE On Profile View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT
- AIR VALVE On Plan View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Plan View

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Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1T9**

Consultants: **aarvee associates**
aarchitects, engineers & consultants pvt. ltd.
Ravula Residency, Shreejaya Colony Main Rd., Hyderabad-62, India
Tel: +91-40-33379333 Fax: +91-40-33379377
e-mail: info@aarvee.net, web: www.aarvee.net

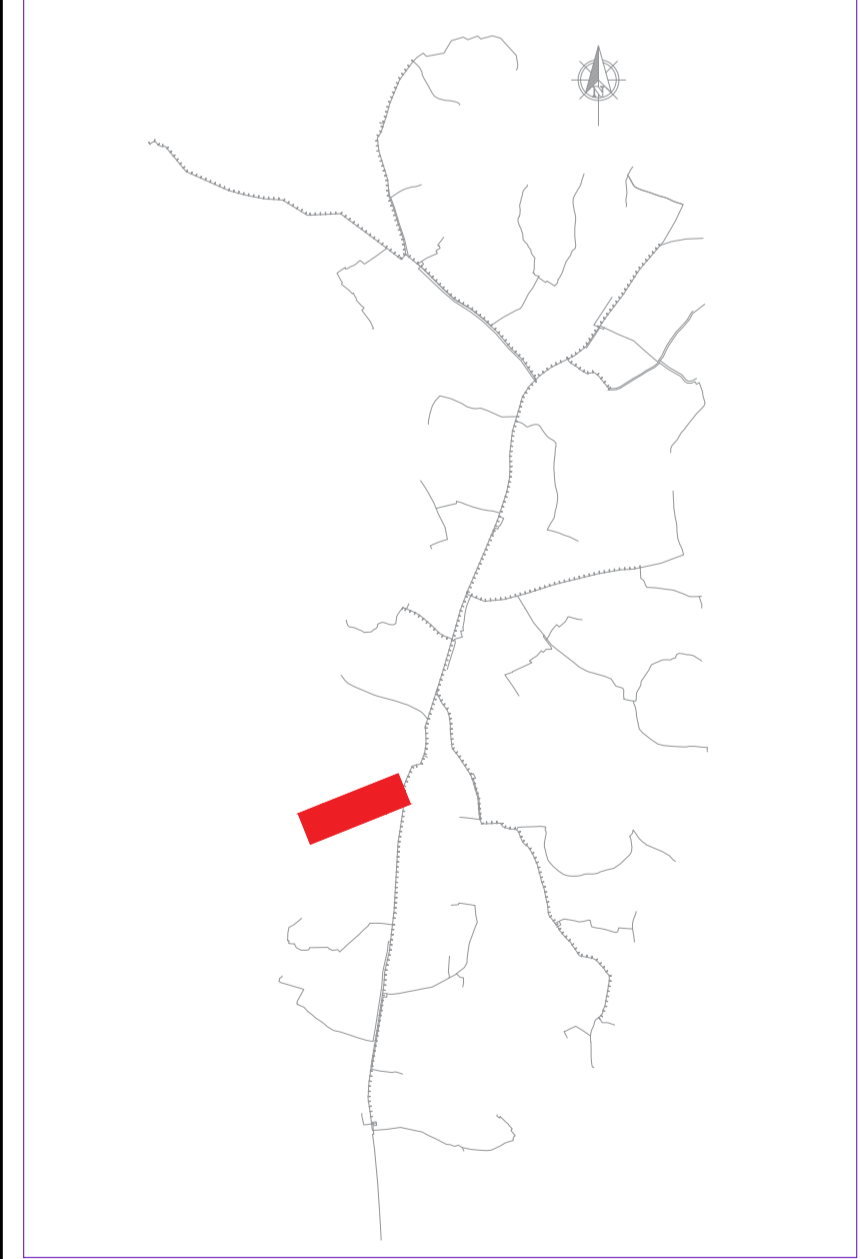
LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
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INDEX MAP



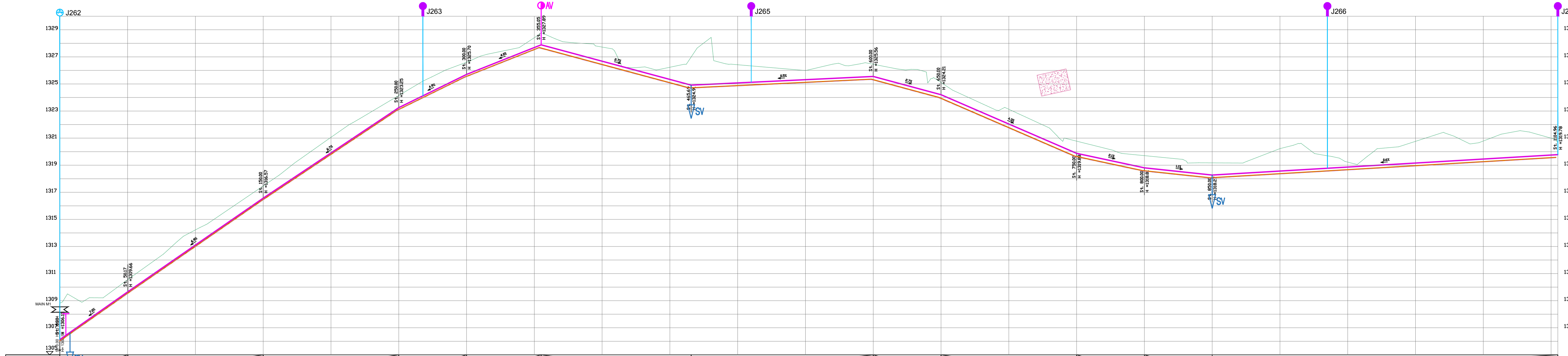
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
TERTIARY MAIN M1T11

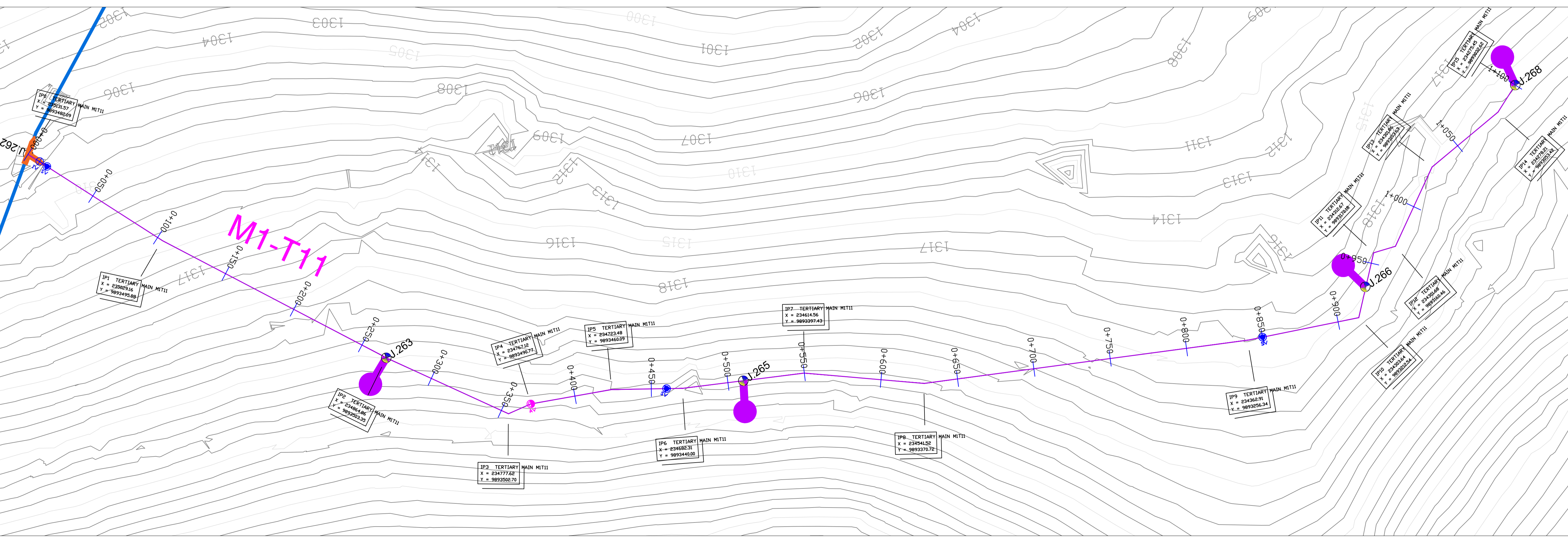
Consultants: **aarvee associates**
aarvee associates & consultants pvt. ltd.
Ravula Road, Shree Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33379333 Fax: +91-40-33379377
e-mail: irrigation@aarvee.net, web: www.aarvee.net

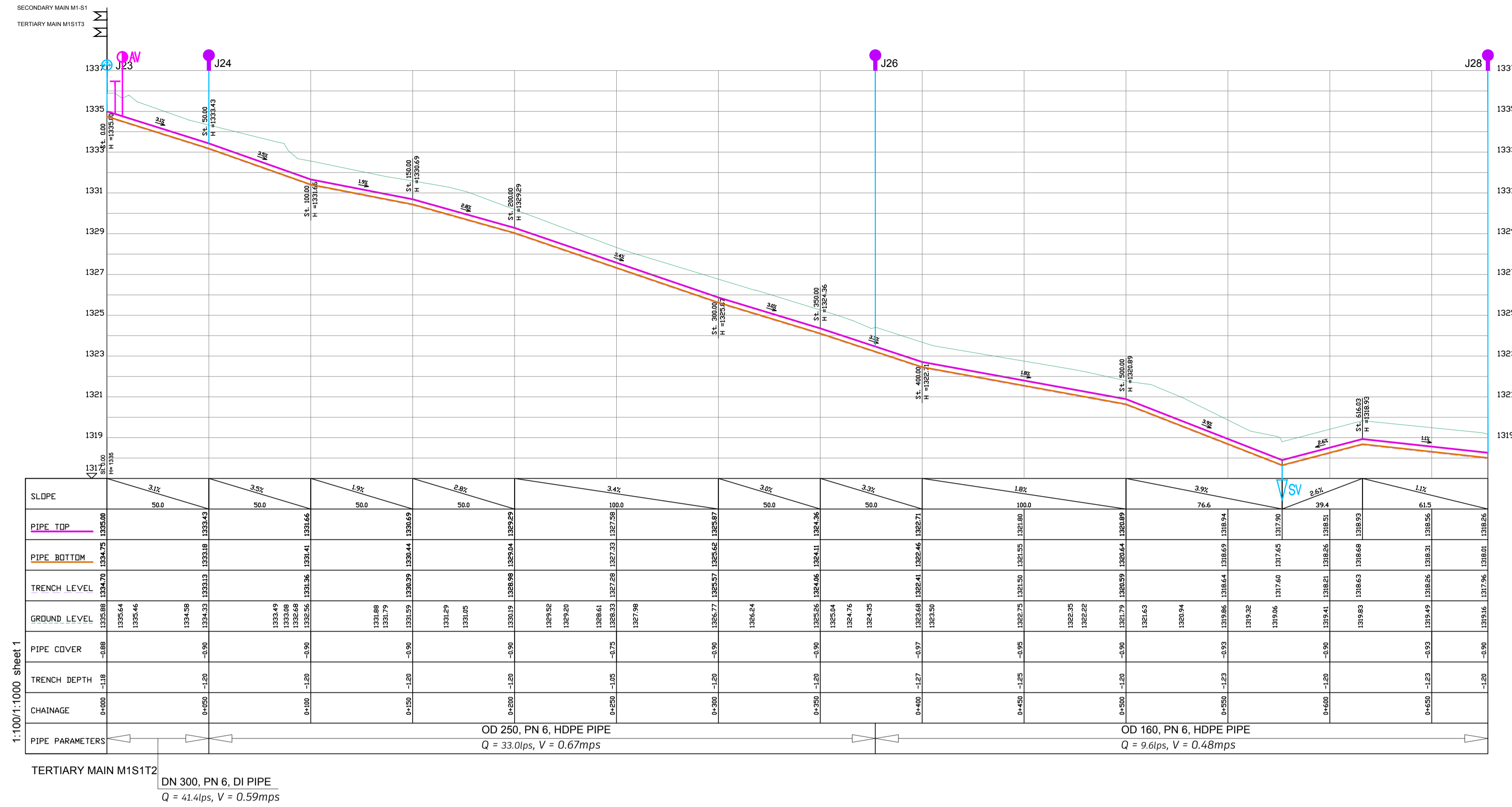


STATION	PIPE TOP (m)	PIPE BOTTOM (m)	TRENCH LEVEL (m)	GROUND LEVEL (m)	PIPE COVER (m)	TRENCH DEPTH (m)	CHAINAGE
0+000	1308.50	1307.60	1307.60	1309.50	-0.90	-1.90	0+000
0+050	1312.50	1311.60	1311.60	1313.50	-0.90	-1.90	0+050
0+100	1316.50	1315.60	1315.60	1317.50	-0.90	-1.90	0+100
0+150	1320.50	1319.60	1319.60	1321.50	-0.90	-1.90	0+150
0+200	1324.50	1323.60	1323.60	1325.50	-0.90	-1.90	0+200
0+250	1328.50	1327.60	1327.60	1329.50	-0.90	-1.90	0+250
0+300	1327.50	1326.60	1326.60	1328.50	-0.90	-1.90	0+300
0+350	1326.50	1325.60	1325.60	1327.50	-0.90	-1.90	0+350
0+400	1325.50	1324.60	1324.60	1326.50	-0.90	-1.90	0+400
0+450	1324.50	1323.60	1323.60	1325.50	-0.90	-1.90	0+450
0+500	1323.50	1322.60	1322.60	1324.50	-0.90	-1.90	0+500
0+550	1322.50	1321.60	1321.60	1323.50	-0.90	-1.90	0+550
0+600	1321.50	1320.60	1320.60	1322.50	-0.90	-1.90	0+600
0+650	1320.50	1319.60	1319.60	1321.50	-0.90	-1.90	0+650
0+700	1319.50	1318.60	1318.60	1320.50	-0.90	-1.90	0+700
0+750	1318.50	1317.60	1317.60	1319.50	-0.90	-1.90	0+750
0+800	1317.50	1316.60	1316.60	1318.50	-0.90	-1.90	0+800
0+850	1316.50	1315.60	1315.60	1317.50	-0.90	-1.90	0+850
0+900	1315.50	1314.60	1314.60	1316.50	-0.90	-1.90	0+900
0+950	1314.50	1313.60	1313.60	1315.50	-0.90	-1.90	0+950

PIPE PARAMETERS

OD 250, PN 6, HDPE PIPE Q = 38.4lps, V = 0.78mps	OD 250, PN 6, HDPE PIPE Q = 27.0lps, V = 0.55mps	OD 250, PN 6, HDPE PIPE Q = 27.0lps, V = 0.55mps	OD 160, PN 6, HDPE PIPE Q = 10.2lps, V = 0.51mps
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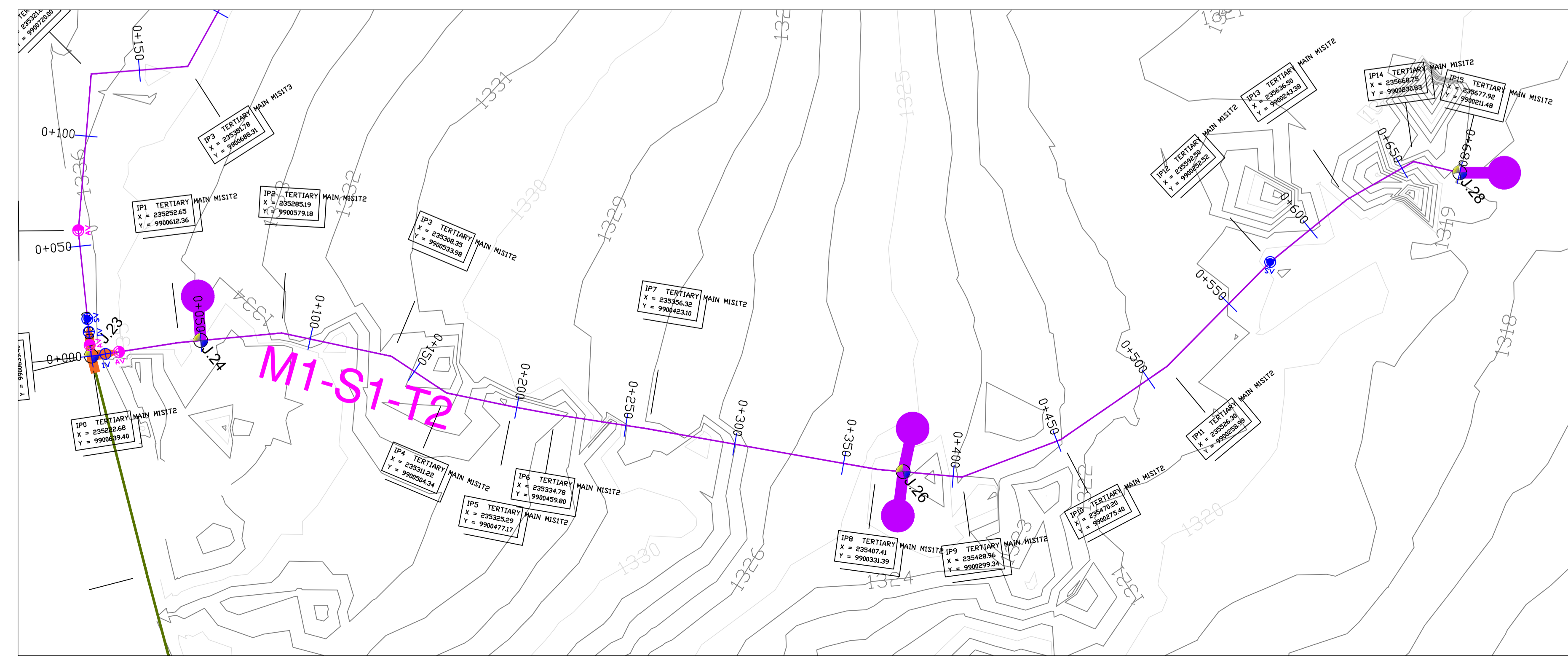
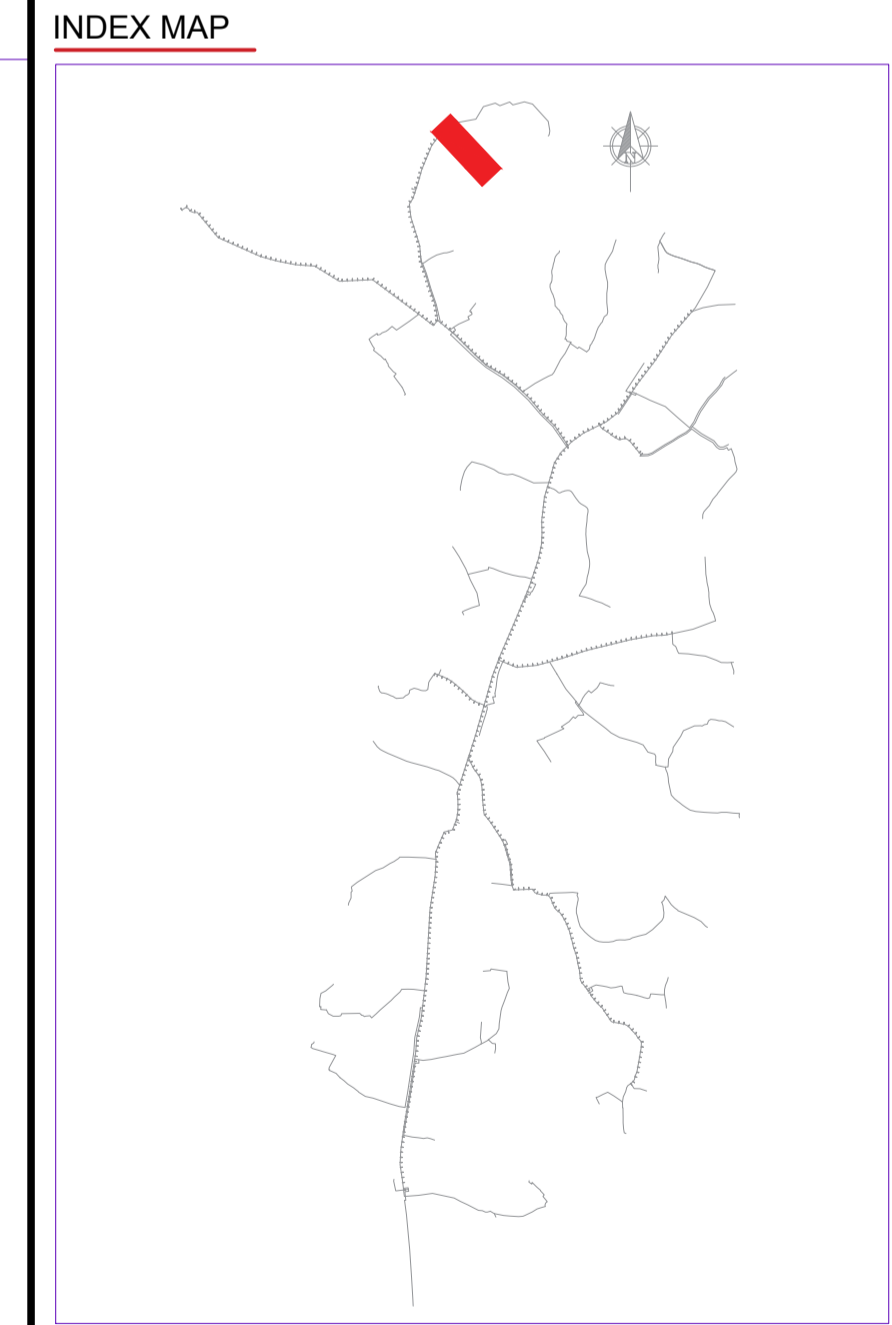




LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
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- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
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- PIPE T-JUNCTION On Profile View
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

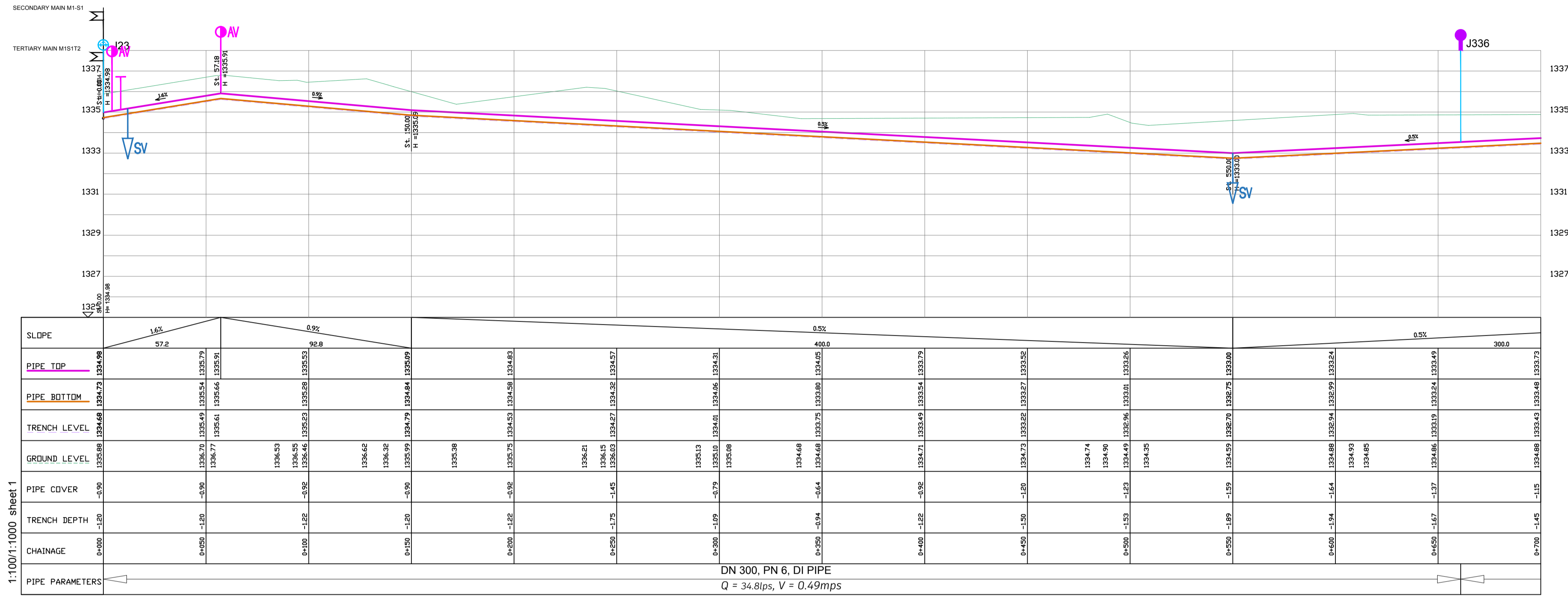
Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

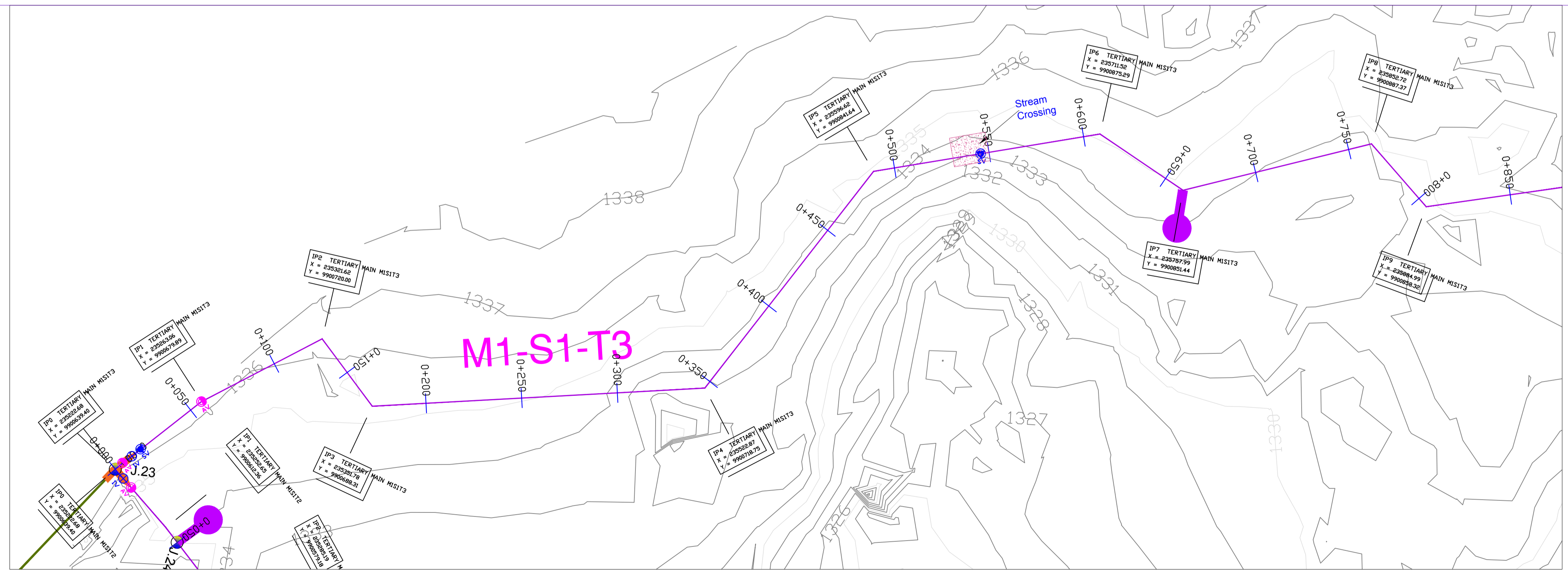
Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1S1T2**

Consultants: **aarvee associates**
aarvee associates & consultants pvt. ltd.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad-52, India
Tel: +91-40-3375933 Fax: +91-40-2375077
e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO/MWE-KIS-NET-PP/M1S1T2-01 Date: APR 2022



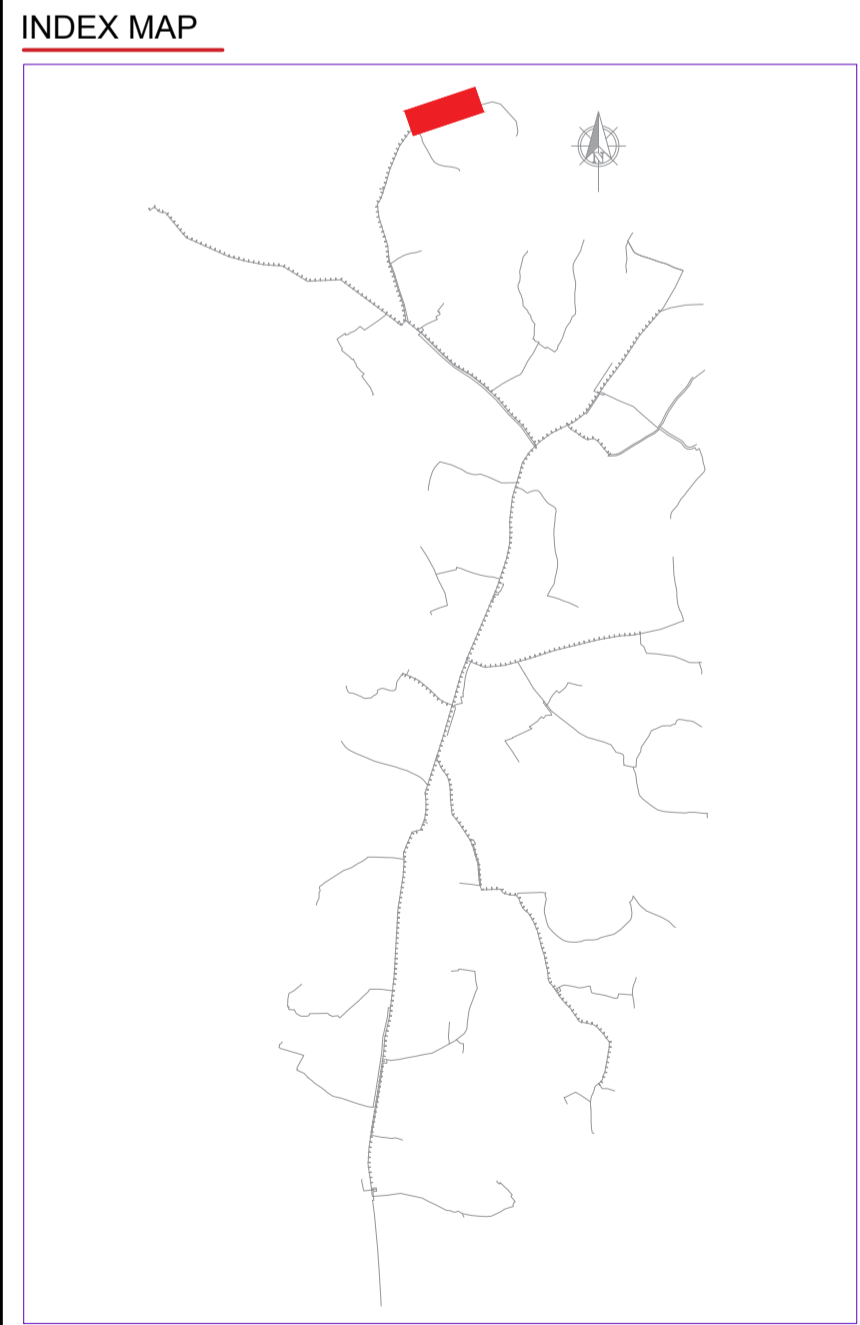
TERTIARY MAIN M1S1T3



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



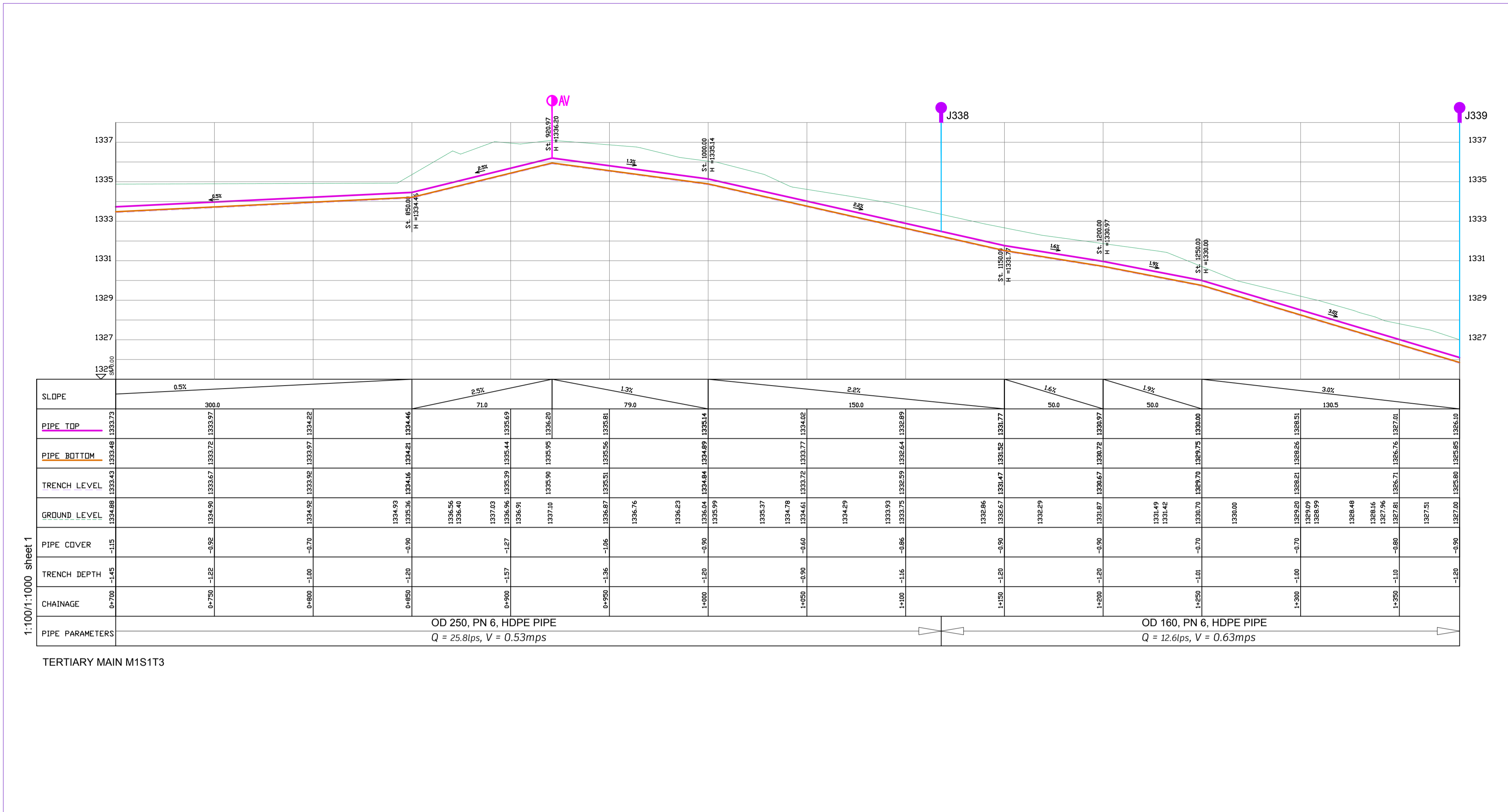
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Vertical 1 : 100

Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1S1T3**

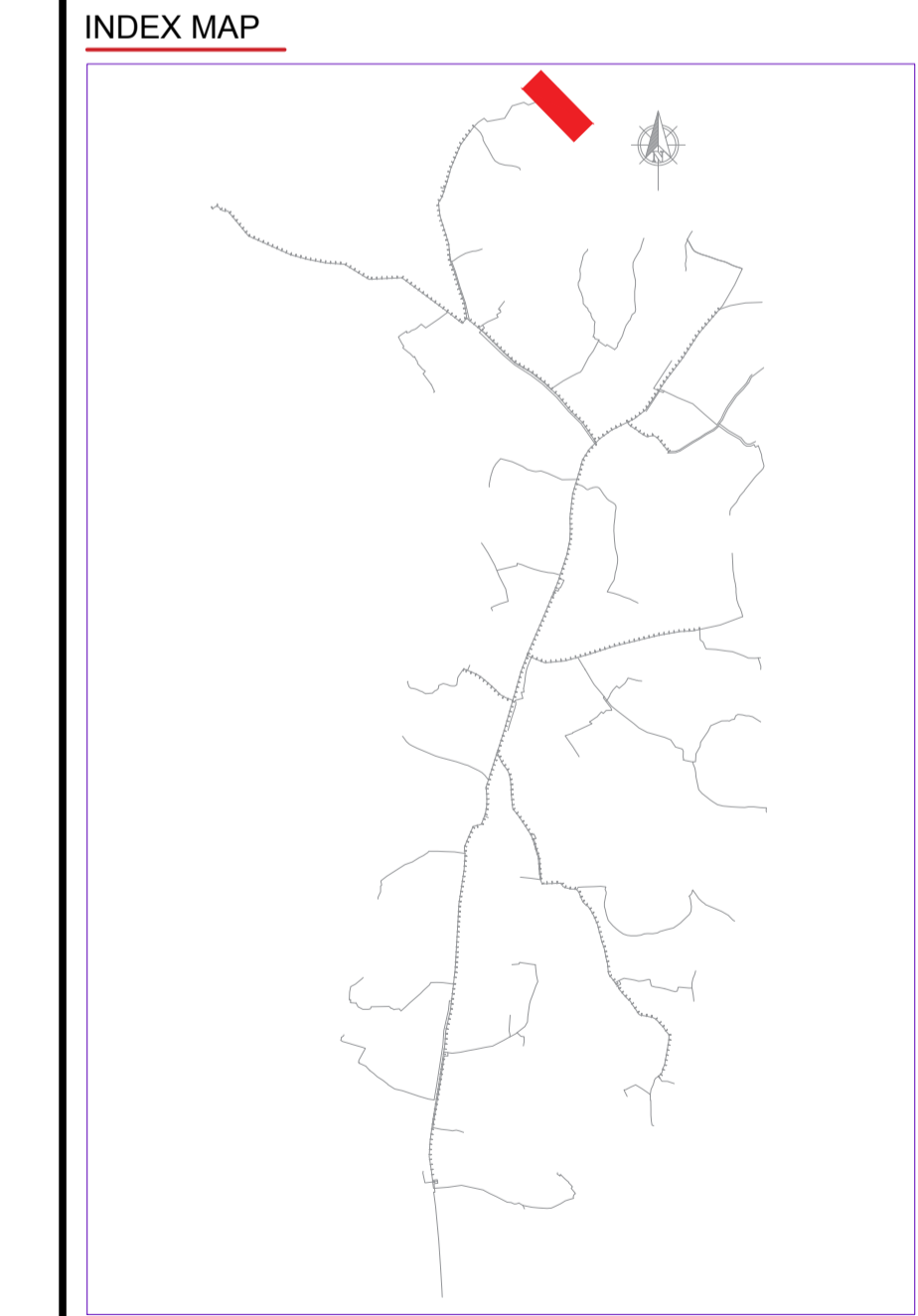
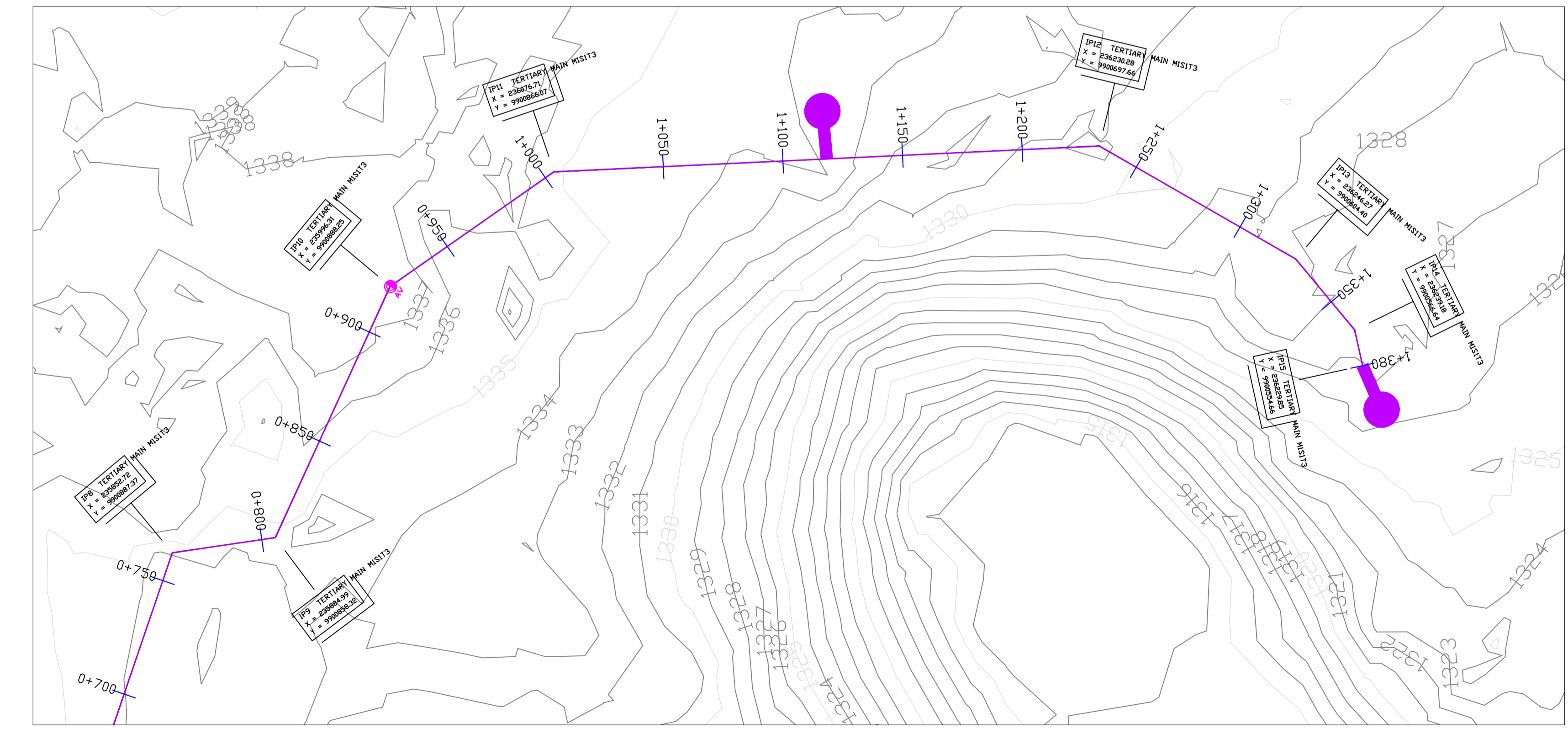
Consultants: **arvee associates**
arvee associates engineers & consultants pvt. ltd.
Ravula Residency, Shreejaya Main Rd., Hyderabad 52, India
Tel: +91-40-33376333 Fax: +91-40-33376277
e-mail: irrigation@arvee.net, web: www.arvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S1T3**

Consultants: **aarvee associates**
architects, engineers & consultants pvt. ltd.
Ravula Residency, Shreejaya Main Rd., Hyderabad 52, India
Tel: +91-40-33379333 Fax: +91-40-33379377
e-mail: irrigation@aarvee.net, web: www.aarvee.net



SLOPE	0.6%	0.2%	0.7%	3.3%	6.2%	0.7%	3.0%	1.8%	2.1%	5.4%	1.9%	0.5%			
PIPE TOP	1296.66	1296.51	1296.40	1295.47	1292.66	1292.76	1291.66	1291.56	1291.46	1291.17	1291.06	1291.06			
PIPE BOTTOM	1296.56	1296.41	1296.30	1295.37	1292.56	1292.66	1291.56	1291.46	1291.36	1291.07	1290.96	1290.96			
TRENCH LEVEL	1298.31	1298.16	1298.05	1297.12	1294.31	1294.41	1293.31	1293.21	1293.11	1292.82	1292.71	1292.71			
GROUND LEVEL	1297.71	1297.56	1297.45	1296.52	1293.71	1293.81	1292.71	1292.61	1292.51	1292.22	1292.11	1292.11			
PIPE COVER	-1.05	-1.05	-1.05	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15			
TRENCH DEPTH	-1.40	-1.40	-1.40	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48			
CHAINAGE	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550			
PIPE PARAMETERS	DN 300, PN 6, DI PIPE Q = 56.4lps, V = 0.80mps				DN 300, PN 10, DI PIPE Q = 45.6lps, V = 0.65mps				OD 250, PN 10, HDPE PIPE Q = 31.2lps, V = 0.64mps			OD 200, PN 10, HDPE PIPE Q = 21.0lps, V = 0.67mps		OD 140, PN 10, HDPE PIPE Q = 7.2lps, V = 0.47mps	

TERTIARY MAIN M1S2T1

1:100/1:1000 sheet 1

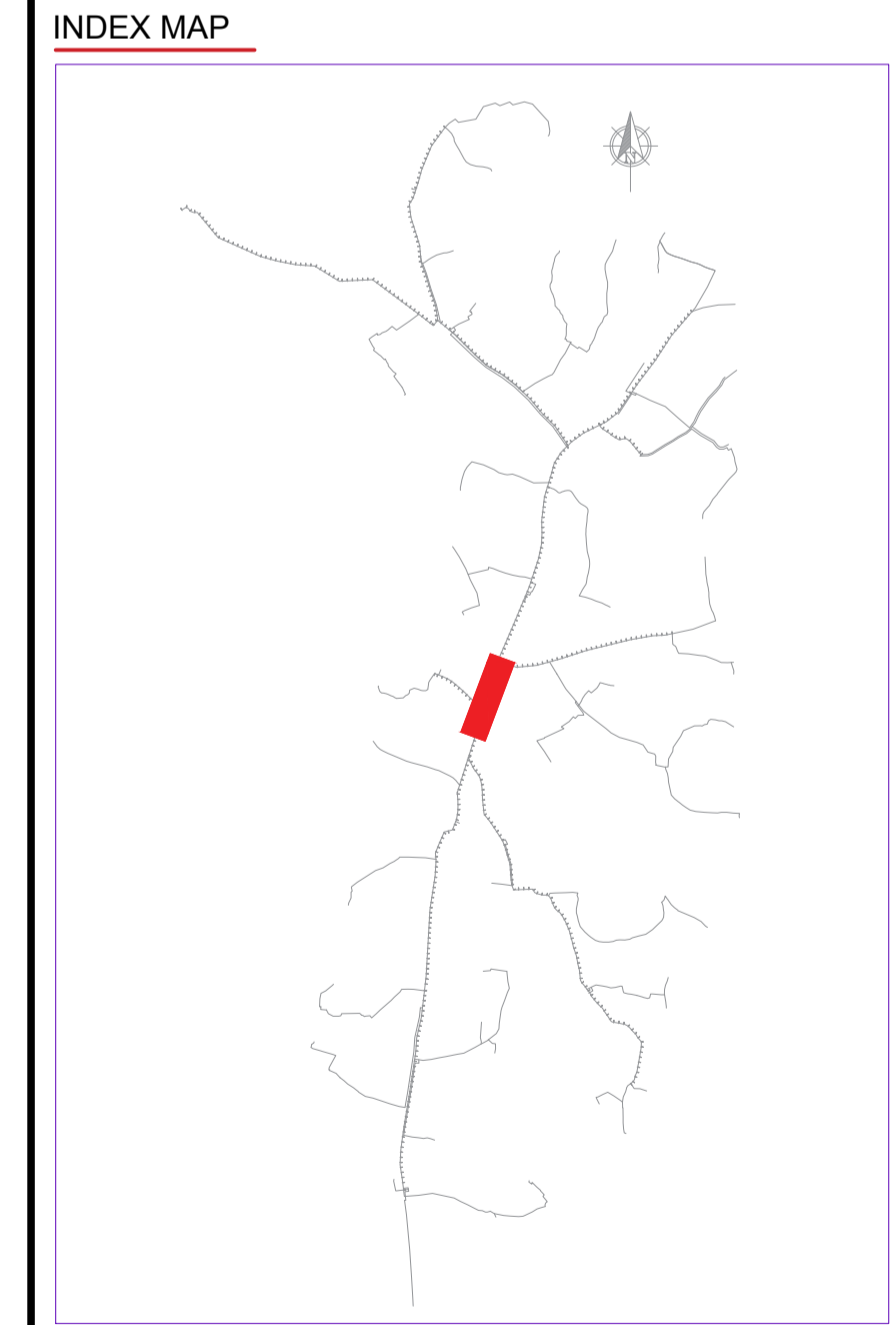
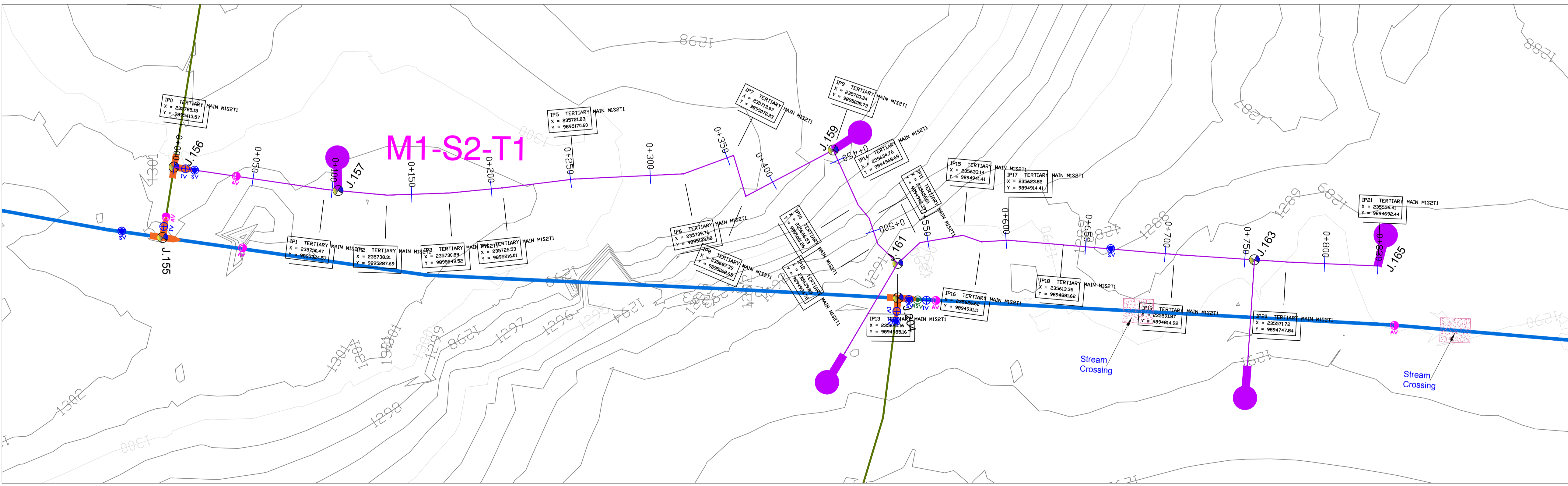
LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM

JUNCTION LOCATIONS

- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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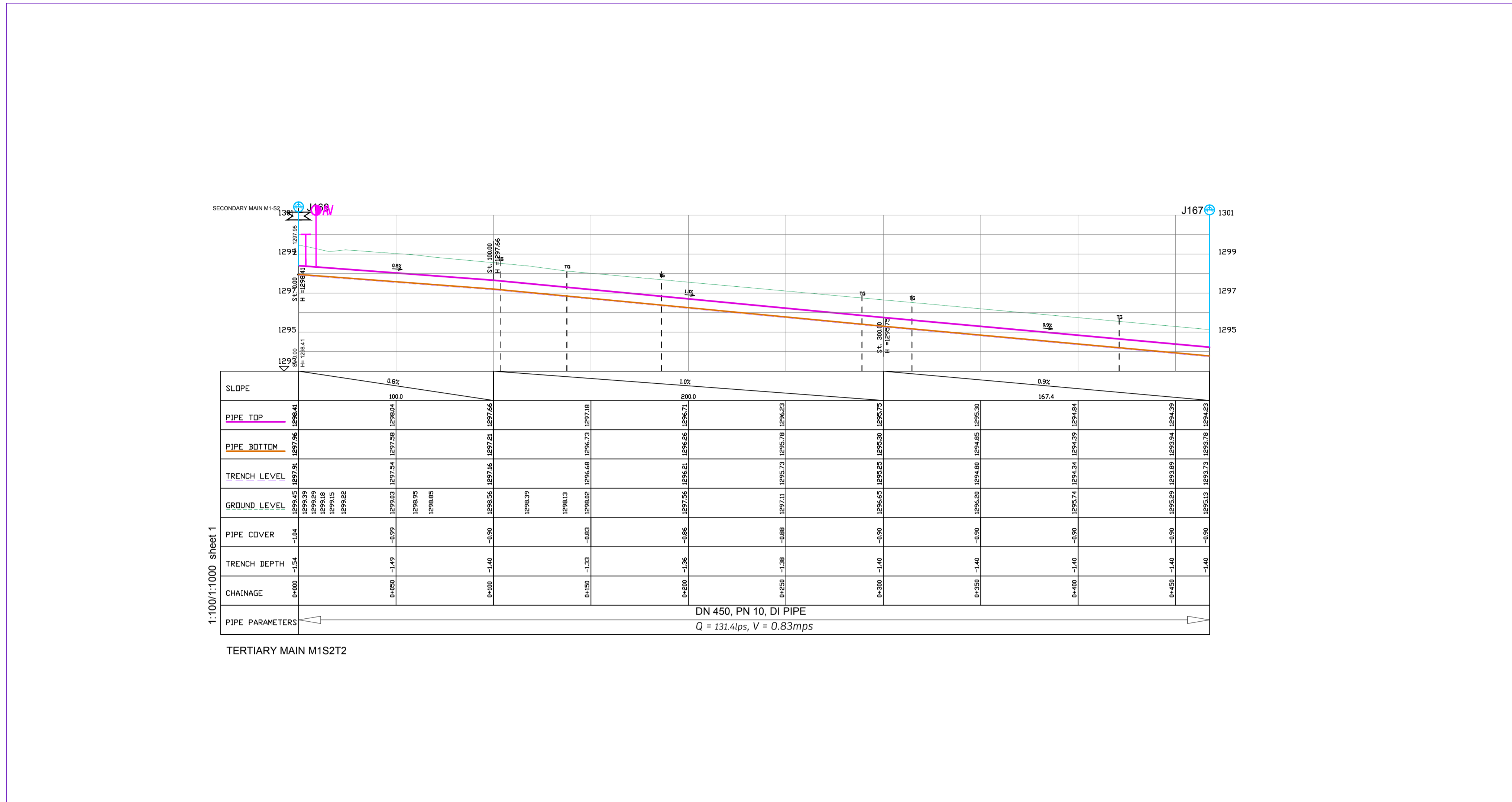
Scale: Horizontal 1:1000
Vertical 1:100

Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1S2T1**

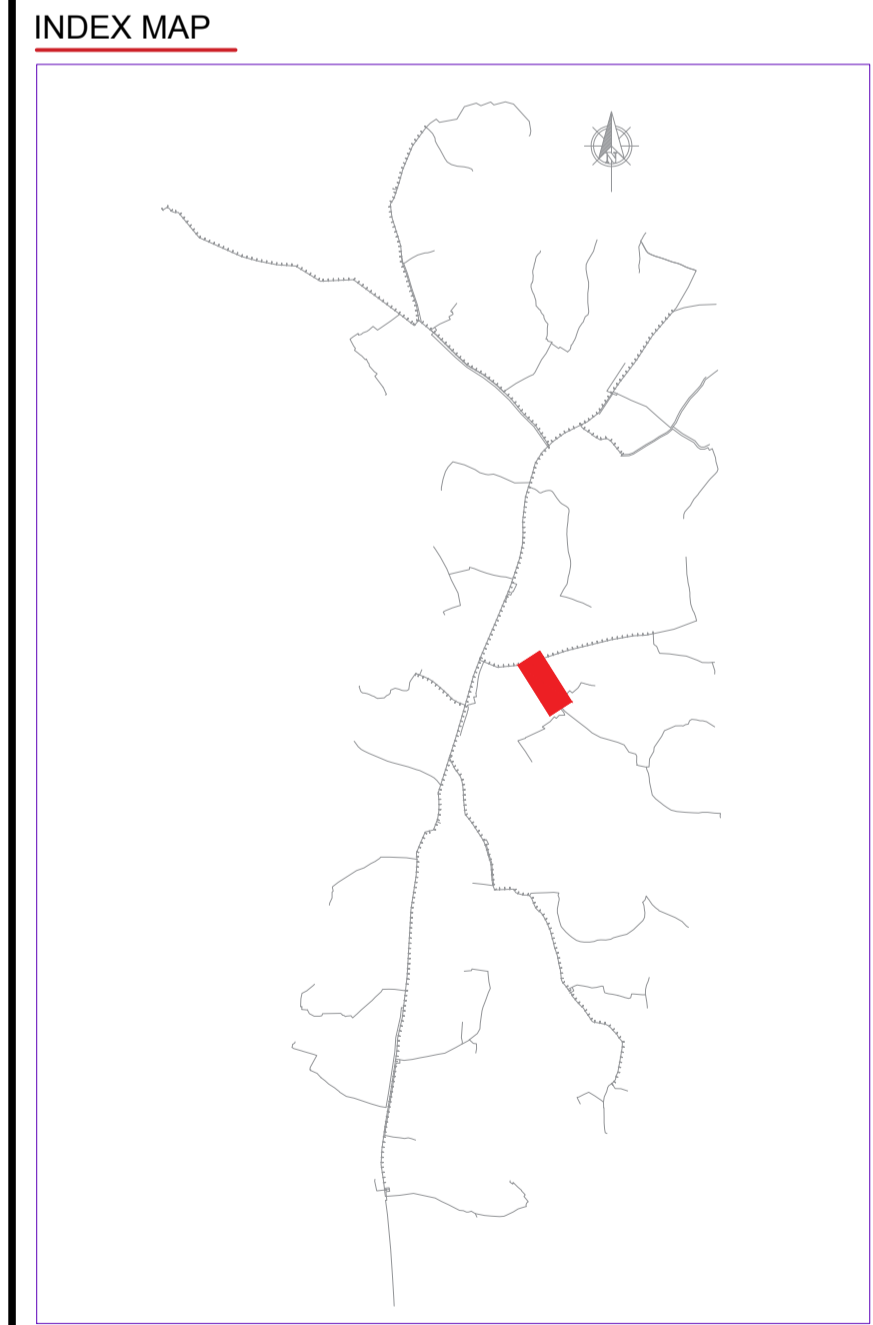
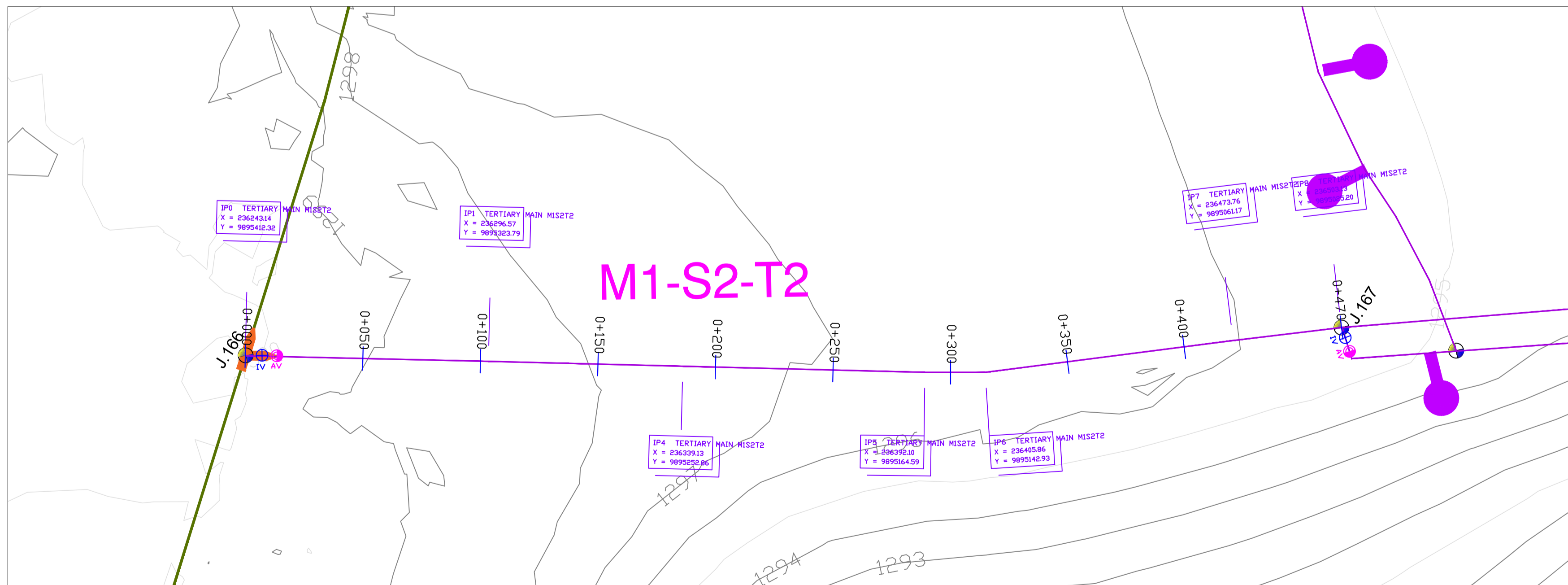
Consultants: **aarvee associates**
architects, engineers & consultants pvt.ltd.
Ravula Residency, Shree Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33379333 Fax: +91-40-33379377
e-mail: irrigation@aarvee.net web: www.aarvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
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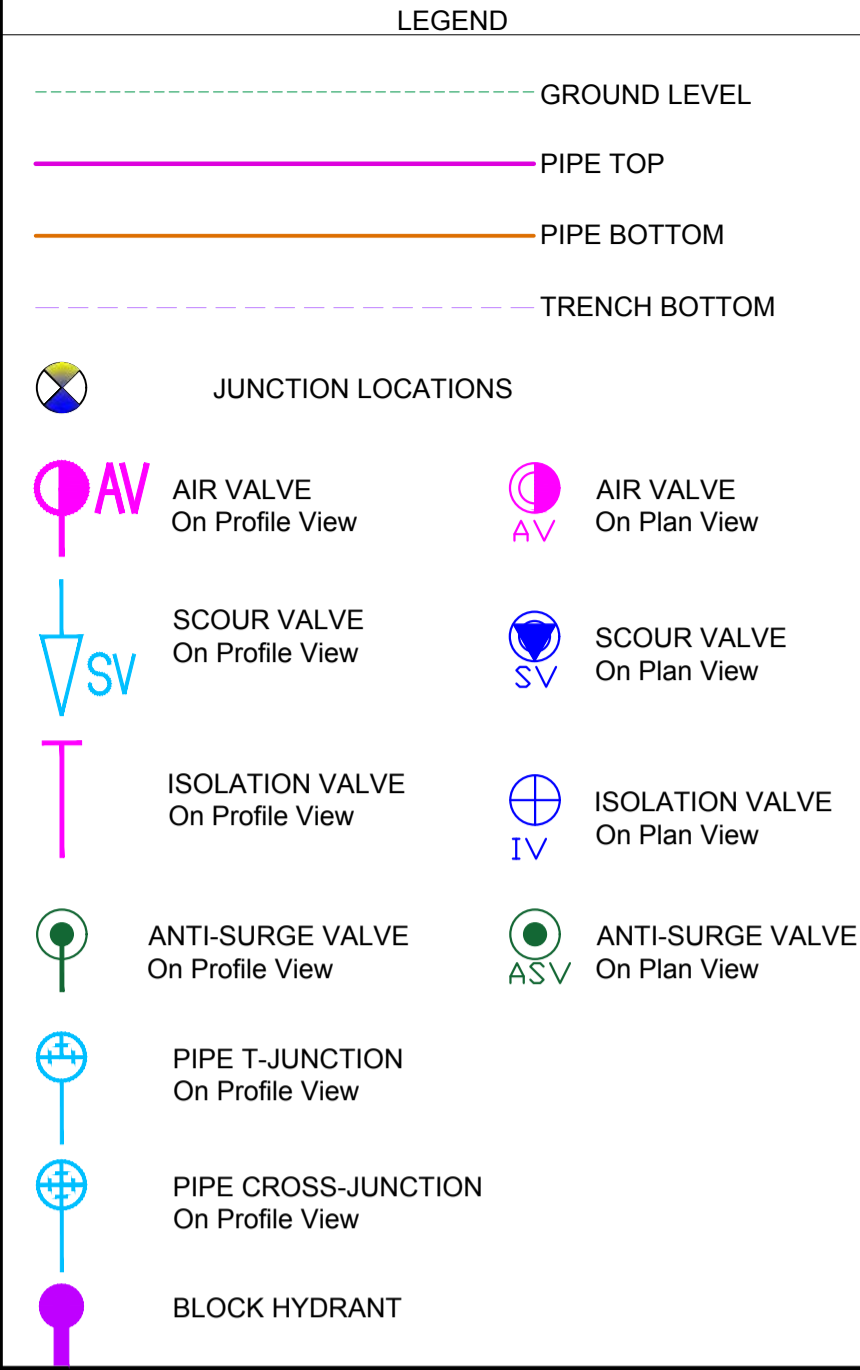
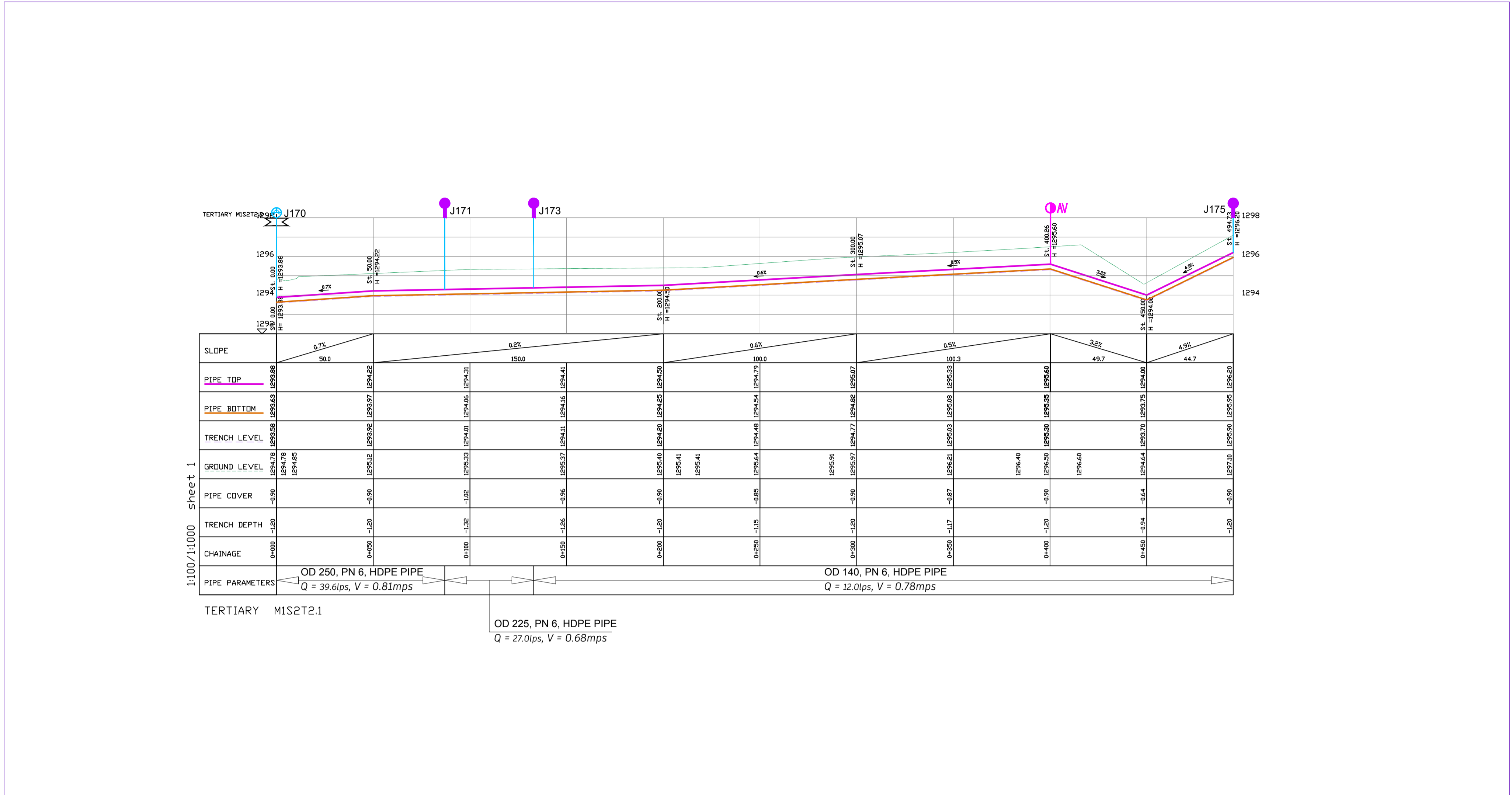
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

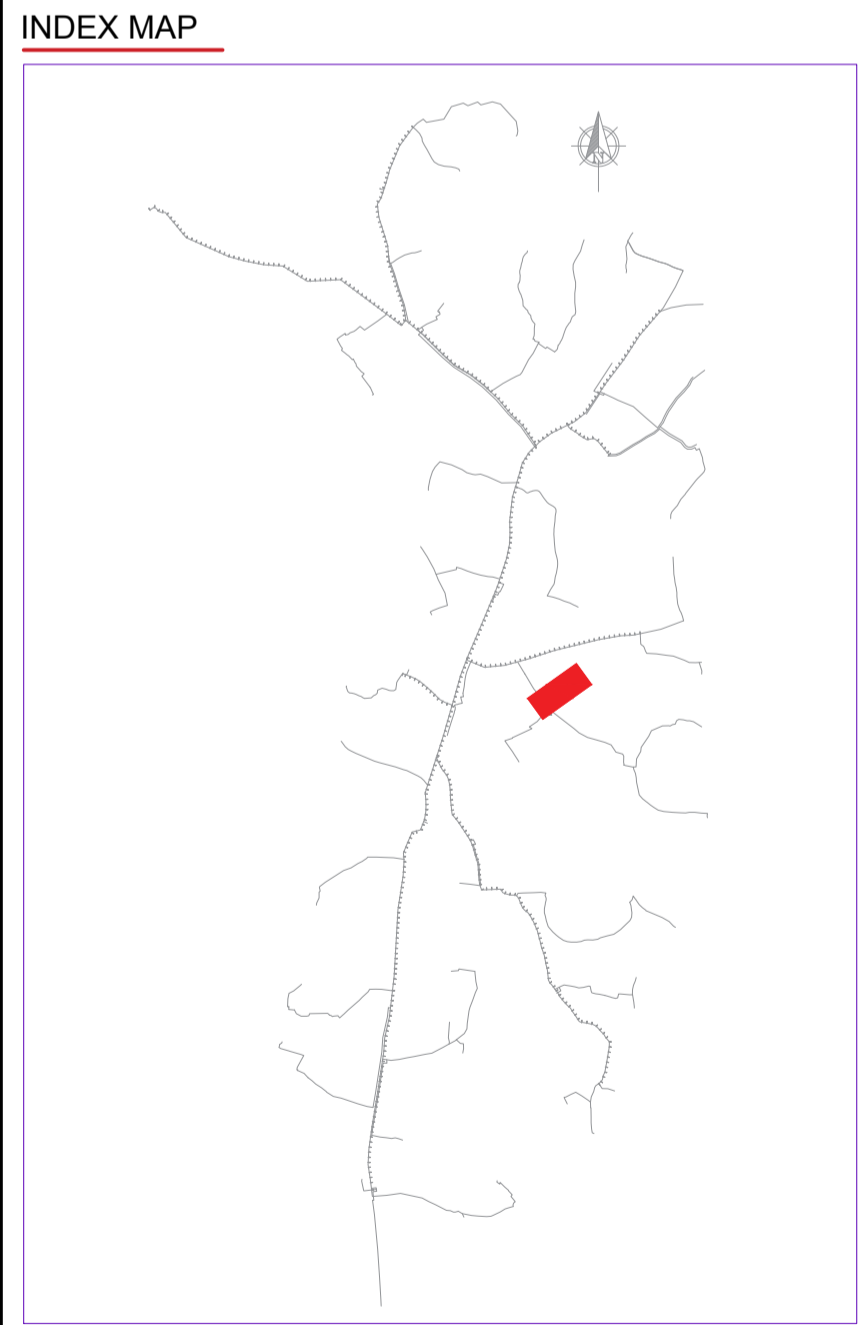
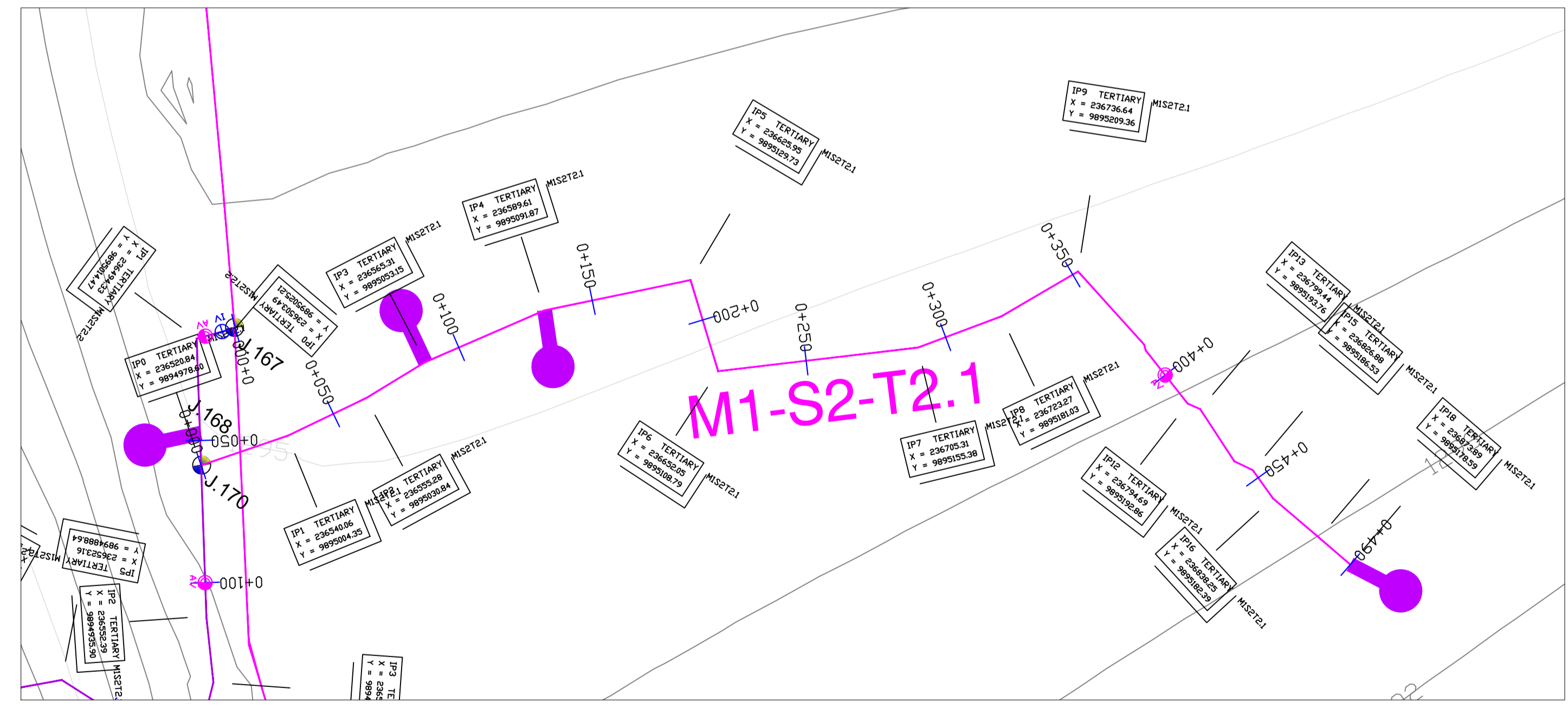
Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S2T2**

Consultants: **aarvee associates**
architects, engineers & consultants pvt. ltd.
Ravula Residency, Shreegar Colony Main Rd., Hyderabad-52, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net, web: www.aarvee.net



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Scale: Horizontal 1 : 1000
Vertical 1 : 100

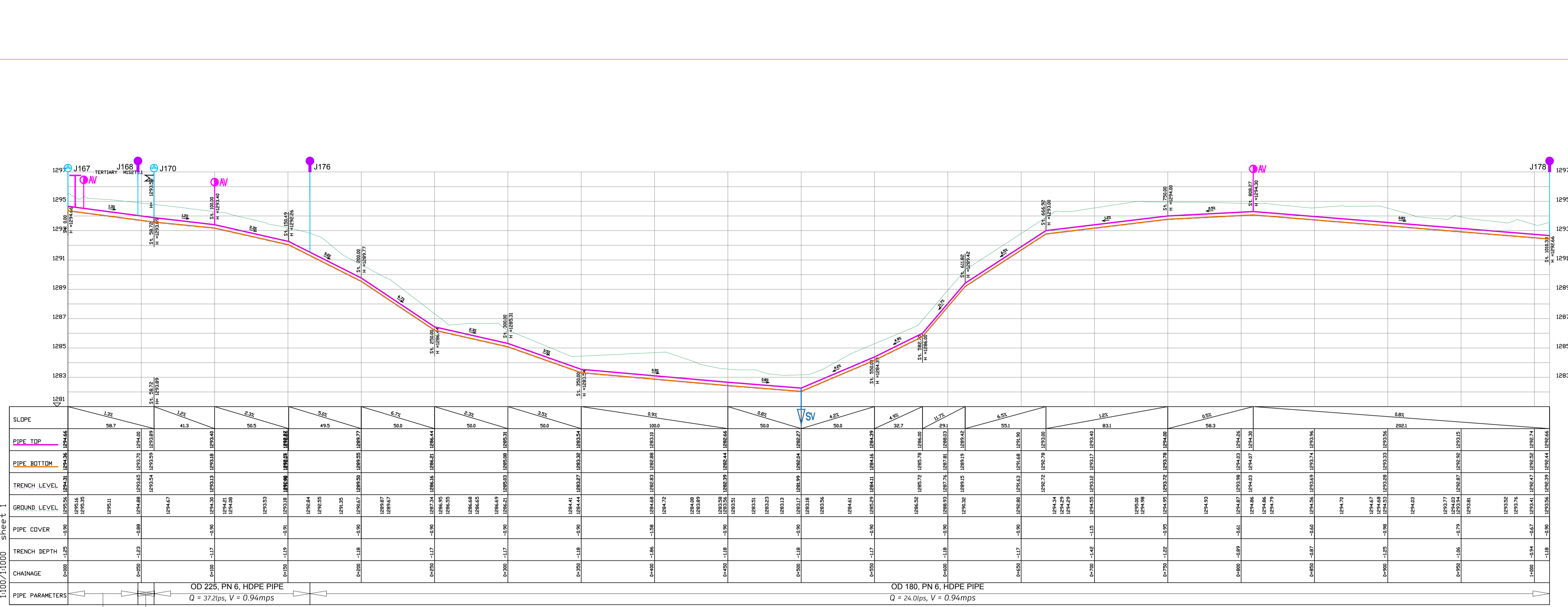
Client: REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project: KABUYANDA IRRIGATION SCHEME

Title: PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1S2T.1

Consultants: **arvee associates**
arvee associates consultants Pvt. Ltd.
Ravula Residency, Shree Colony Main Rd., Hyderabad 62, India
Tel: +91-40-3379333 Fax: +91-40-3379077
e-mail: irrigation@arvee.net, web: www.arvee.net

DRG. NO. MWE-KIS-NET-PP/M1S2T2-02 Date: APR 2022



SLOPE	1.2%	1.6%	2.3%	3.0%	6.7%	2.3%	3.5%	0.9%	0.8%	4.5%	4.5%	6.5%	1.2%	0.5%	0.8%	
PIPE TOP	1294.66	1294.00	1293.00	1292.00	1290.00	1289.00	1288.00	1287.00	1286.00	1285.00	1284.00	1283.00	1282.00	1281.00	1280.00	
PIPE BOTTOM	1294.56	1293.90	1292.90	1291.90	1289.90	1288.90	1288.00	1287.10	1286.20	1285.30	1284.40	1283.50	1282.60	1281.70	1280.80	
TRENCH LEVEL	1294.56	1293.90	1292.90	1291.90	1289.90	1288.90	1288.00	1287.10	1286.20	1285.30	1284.40	1283.50	1282.60	1281.70	1280.80	
GROUND LEVEL	1295.16	1294.68	1293.65	1292.60	1290.50	1289.40	1288.30	1287.20	1286.10	1285.00	1283.90	1282.80	1281.70	1280.60	1279.50	
PIPE COVER	-0.50	-0.68	-0.65	-0.60	-0.50	-0.40	-0.30	-0.20	-0.10	0.00	0.10	0.20	0.30	0.40	0.50	
TRENCH DEPTH	-1.15	-1.23	-1.08	-1.00	-0.90	-0.80	-0.70	-0.60	-0.50	-0.40	-0.30	-0.20	-0.10	0.00	0.10	
CHAINAGE	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	
PIPE PARAMETERS	OD 225, PN 6, HDPE PIPE Q = 37.2lps, V = 0.94mps								OD 180, PN 6, HDPE PIPE Q = 24.0lps, V = 0.94mps							

DN 300, PN 6, DI PIPE
Q = 88.2lps, V = 1.25mps

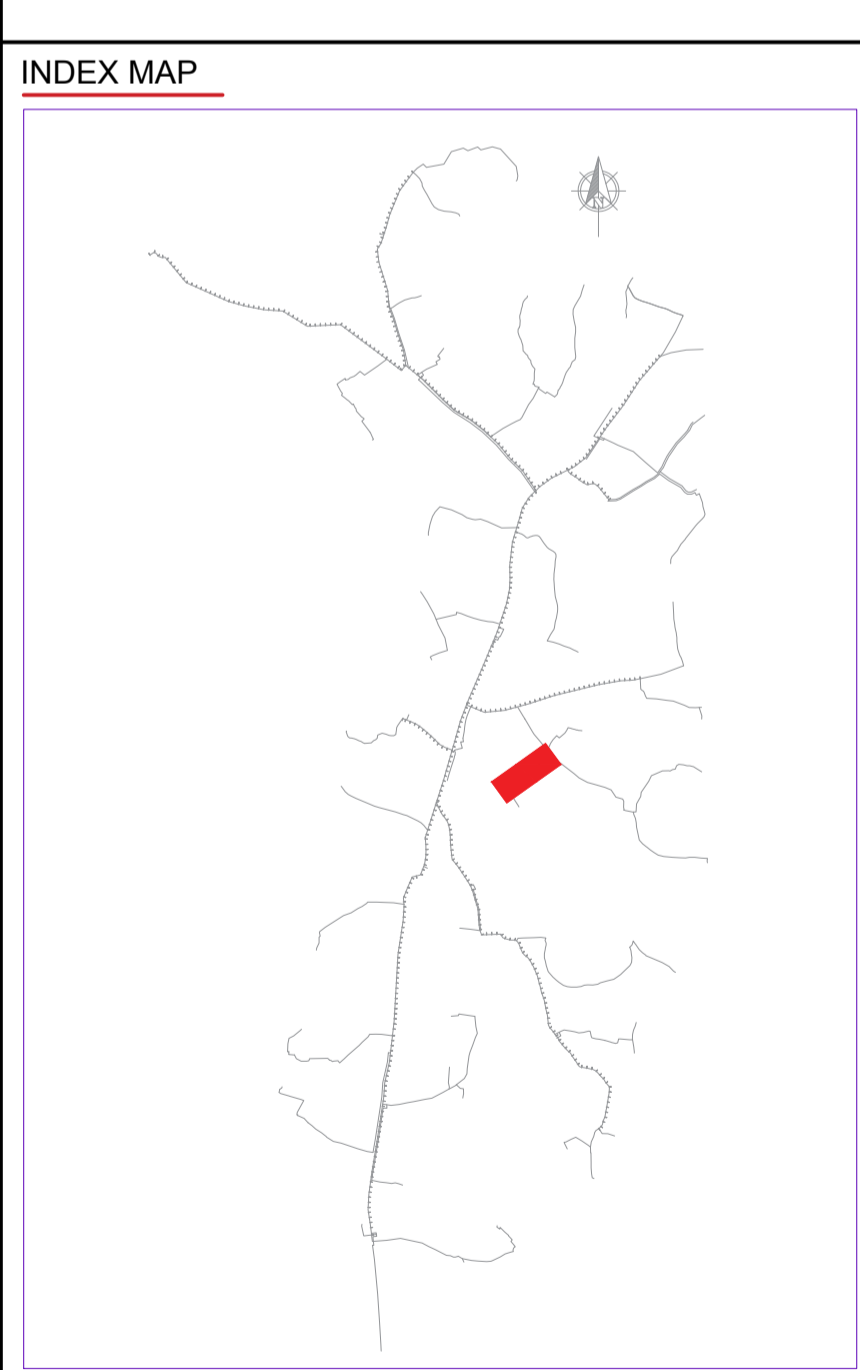
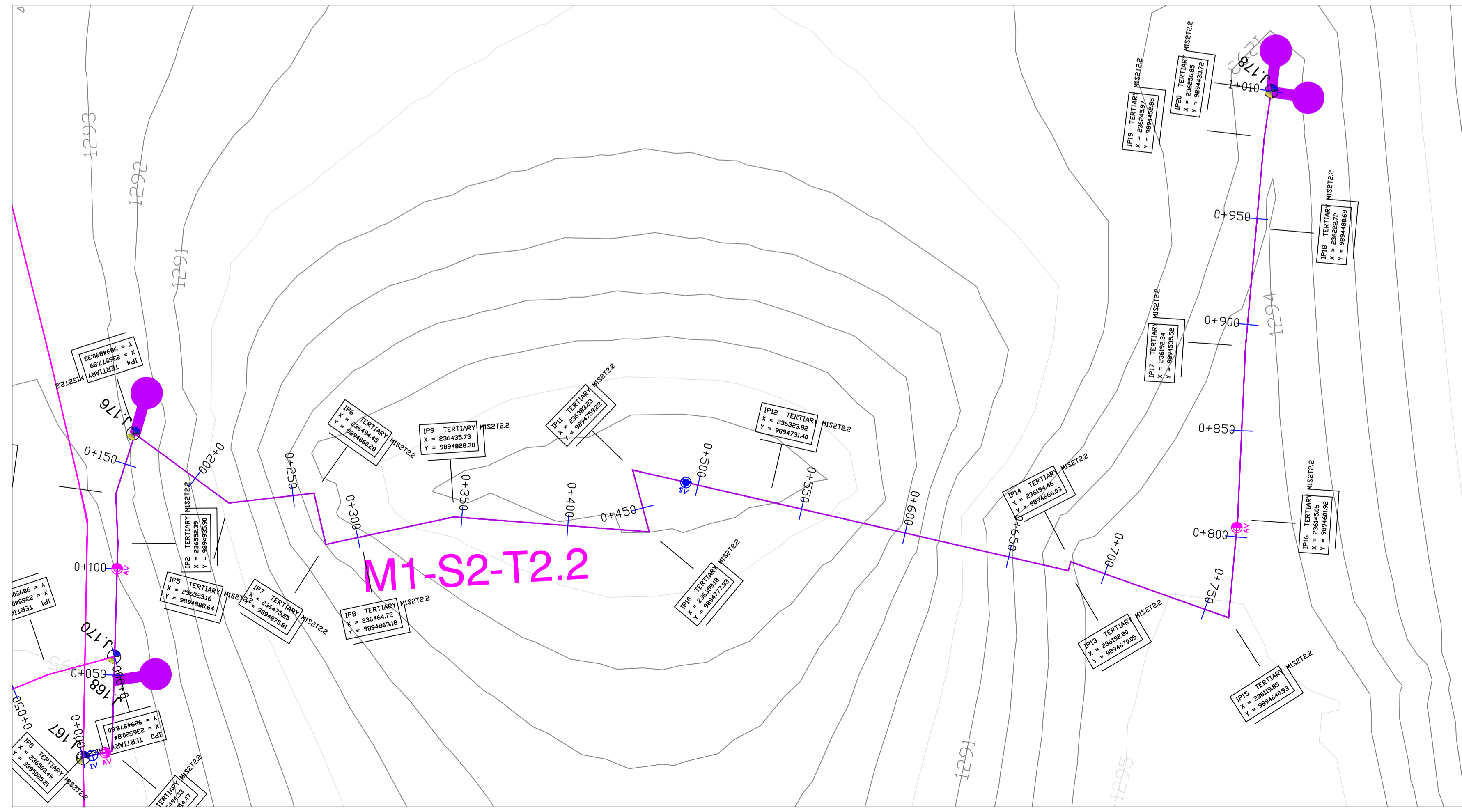
DN 300, PN 6, DI PIPE
Q = 76.8lps, V = 1.09mps

TERTIARY MIS2T2.2

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
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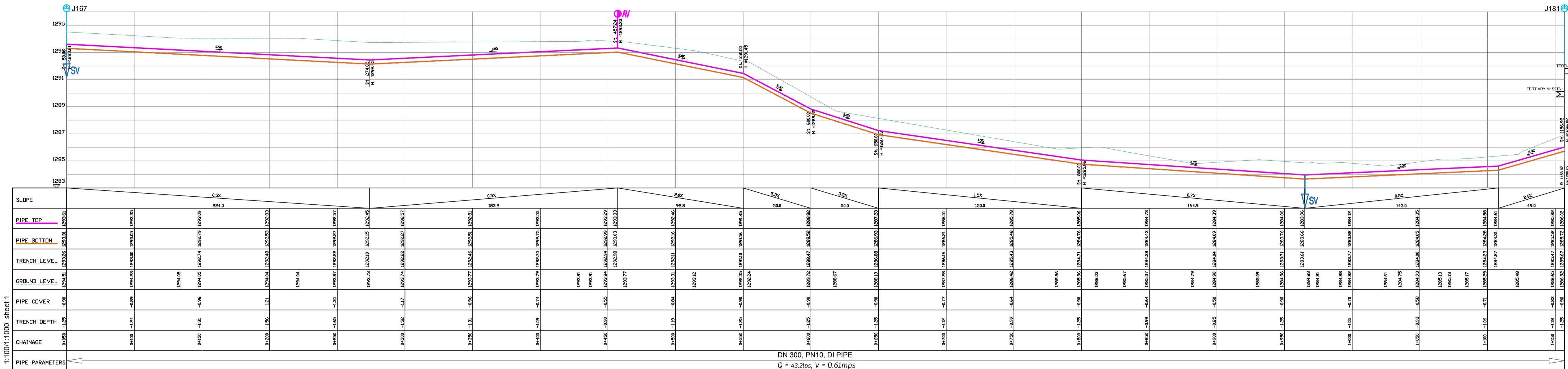
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S2T2.2**

Consultants: **arvee associates**
arvee associates consultants pvt.ltd. & Co.
Ravala Road, Shree Colony Main Rd., Hyderabad 50, India
Tel: +91-40-3379333 Fax: +91-40-3379377
e-mail: irrigation@arvee.net, web: www.arvee.net

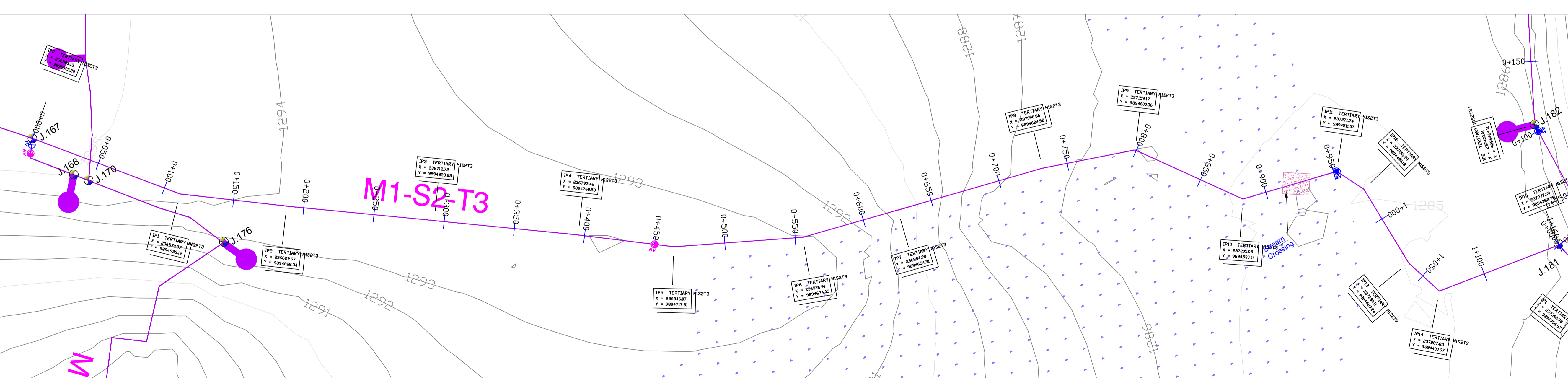


1:100/1:100 sheet 1

STATION	SLOPE	PIPE TOP	PIPE BOTTOM	TRENCH LEVEL	GROUND LEVEL	PIPE COVER	TRENCH DEPTH	CHAINAGE
0+000		1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+000
0+050	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+050
0+100	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+100
0+150	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+150
0+200	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+200
0+250	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+250
0+300	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+300
0+350	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+350
0+400	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+400
0+450	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+450
0+500	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+500
0+550	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+550
0+600	0.00%	1292.64	1292.33	1292.33	1294.85	-0.29	-1.24	0+600

DN 300, PN10, DI PIPE
Q = 43.2lps, V = 0.61mps

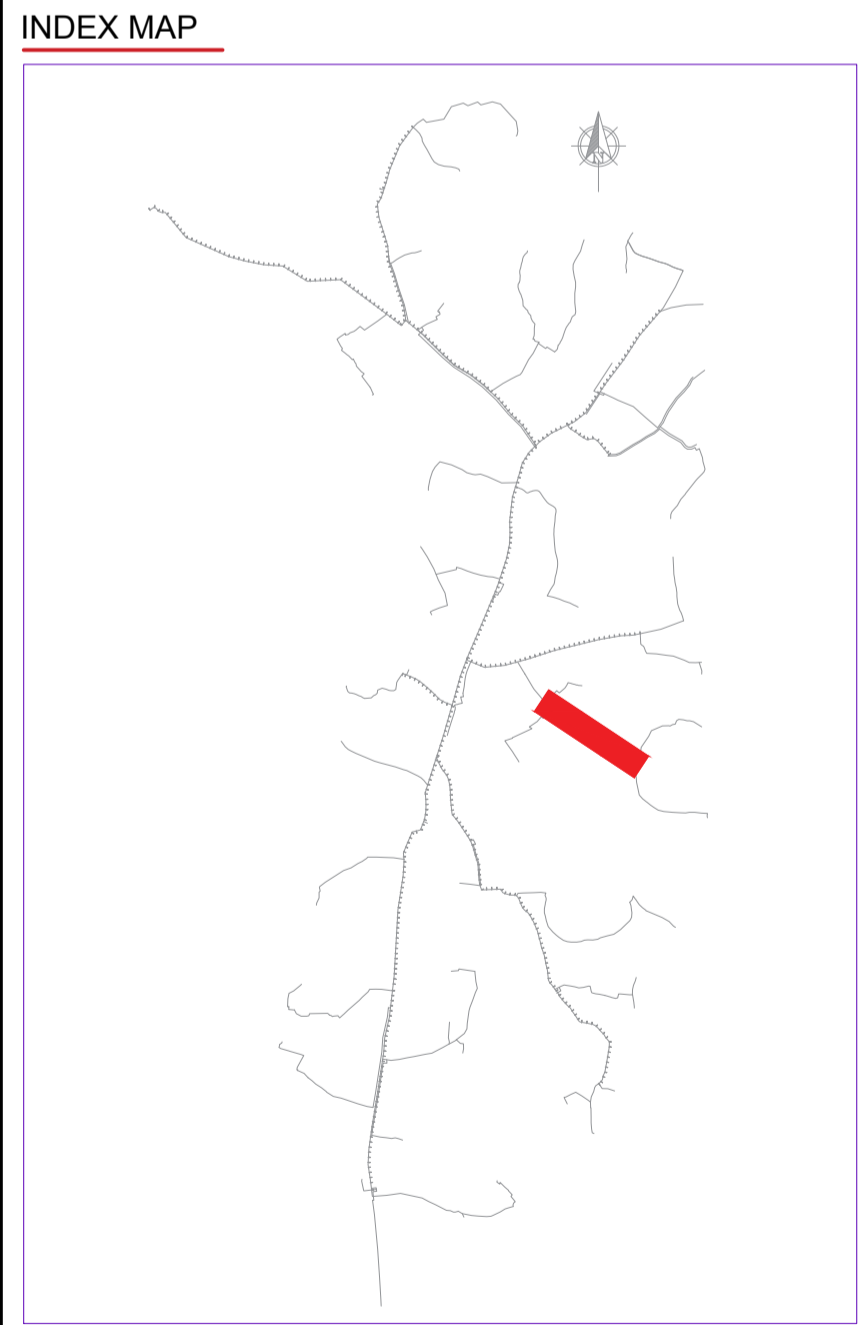
TERTIARY M1S2T3



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View / AIR VALVE On Plan View
- SCOUR VALVE On Profile View / SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View / ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View / ANTI-SURGE VALVE On Plan View
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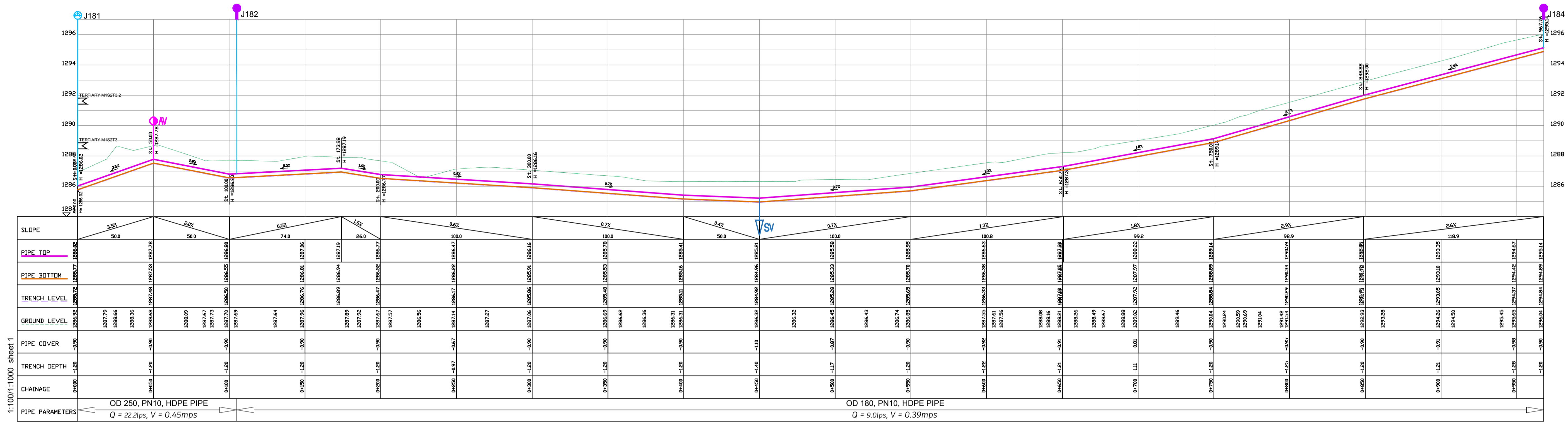
Scale: Horizontal 1: 1000, Vertical 1: 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
TERTIARY MAIN M1S2T3

Consultants: **aarvee associates**
Ravada Road, Shiranga Colony Main Rd., Hydrobad 62, India
Tel: +91-483-3376533, Fax: +91-483-3376577, e-mail: irrigation@aarvee.net, web: www.aarvee.net



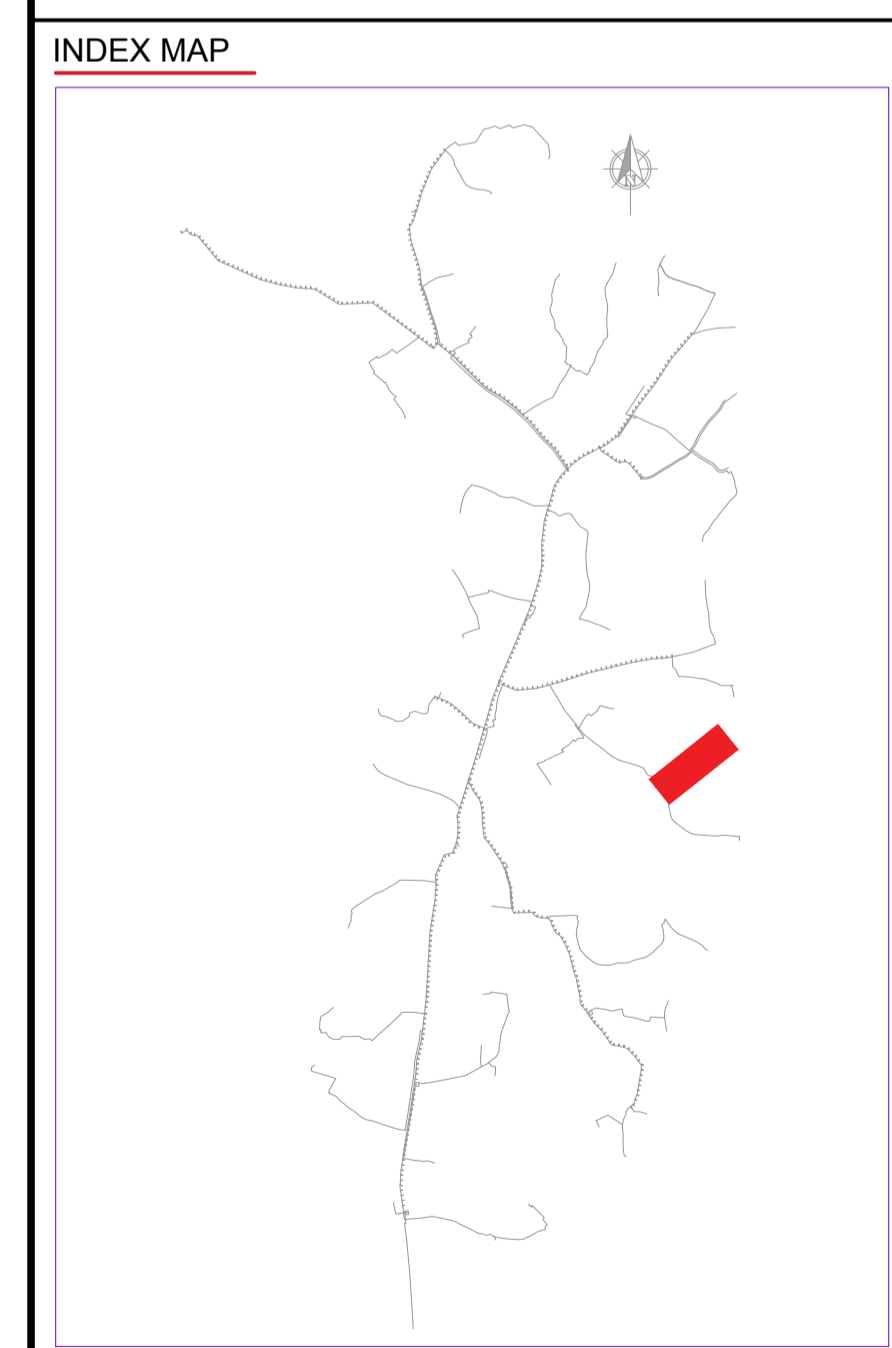
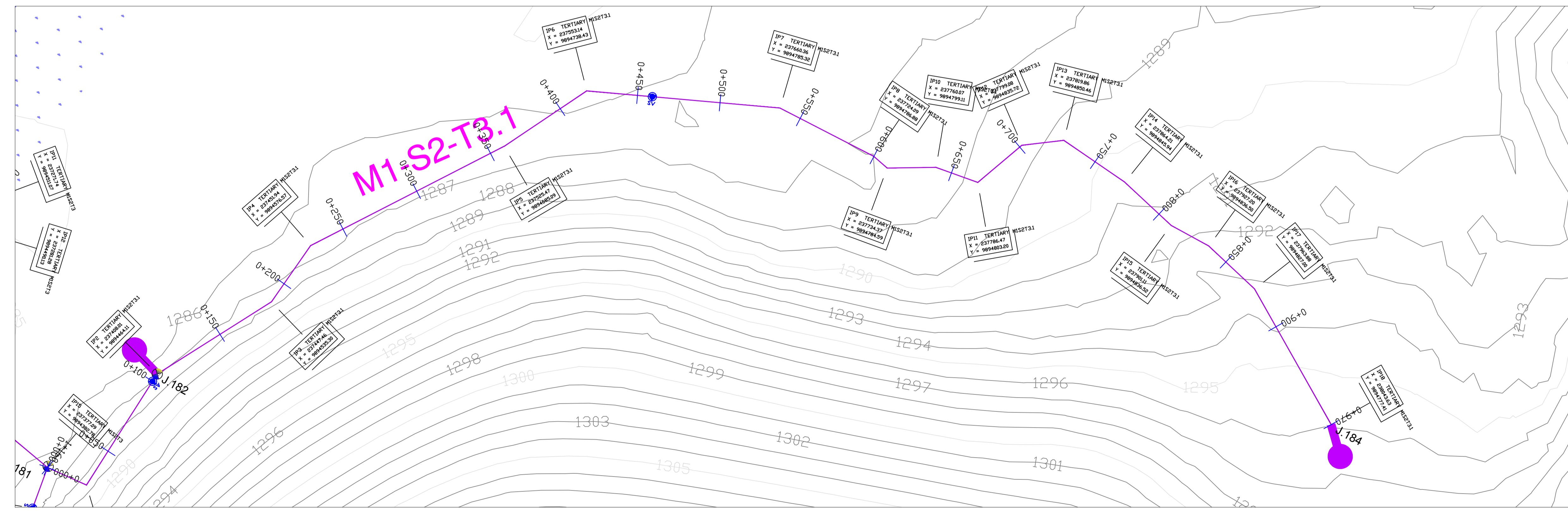
PIPE PARAMETERS: OD 250, PN10, HDPE PIPE Q = 22.2mps, V = 0.45mps

PIPE PARAMETERS: OD 180, PN10, HDPE PIPE Q = 9.0mps, V = 0.39mps

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



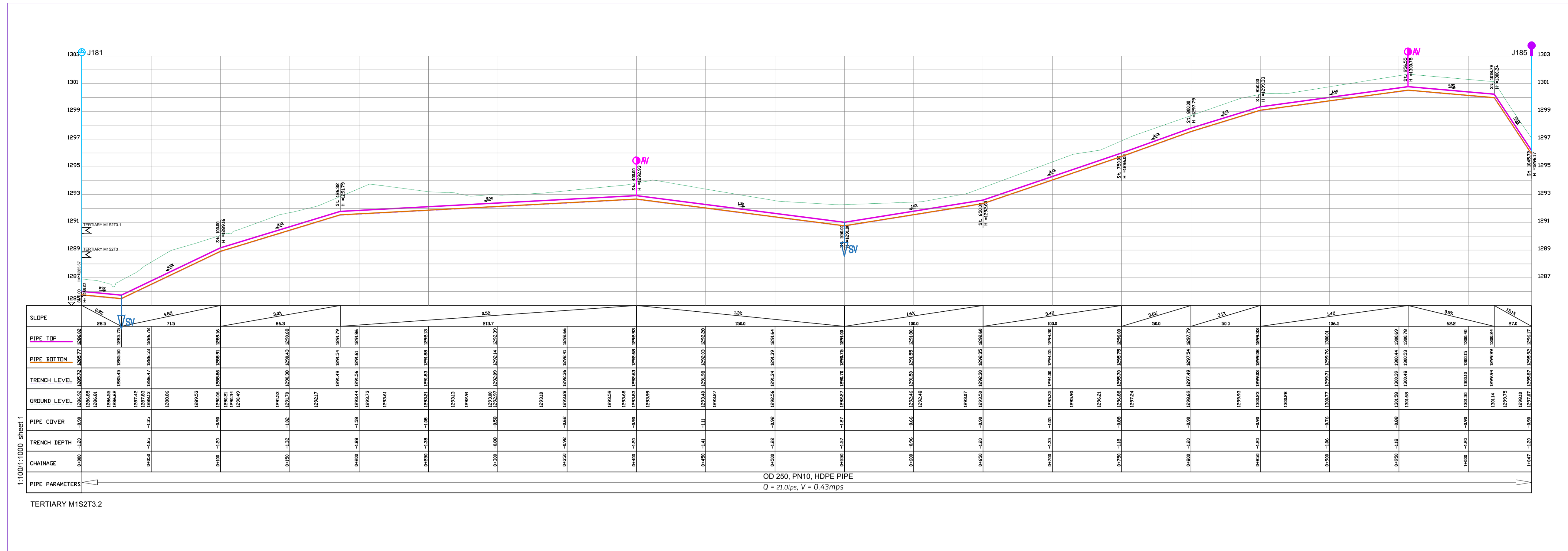
Scale: Horizontal 1 : 1000, Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S2T3.1**

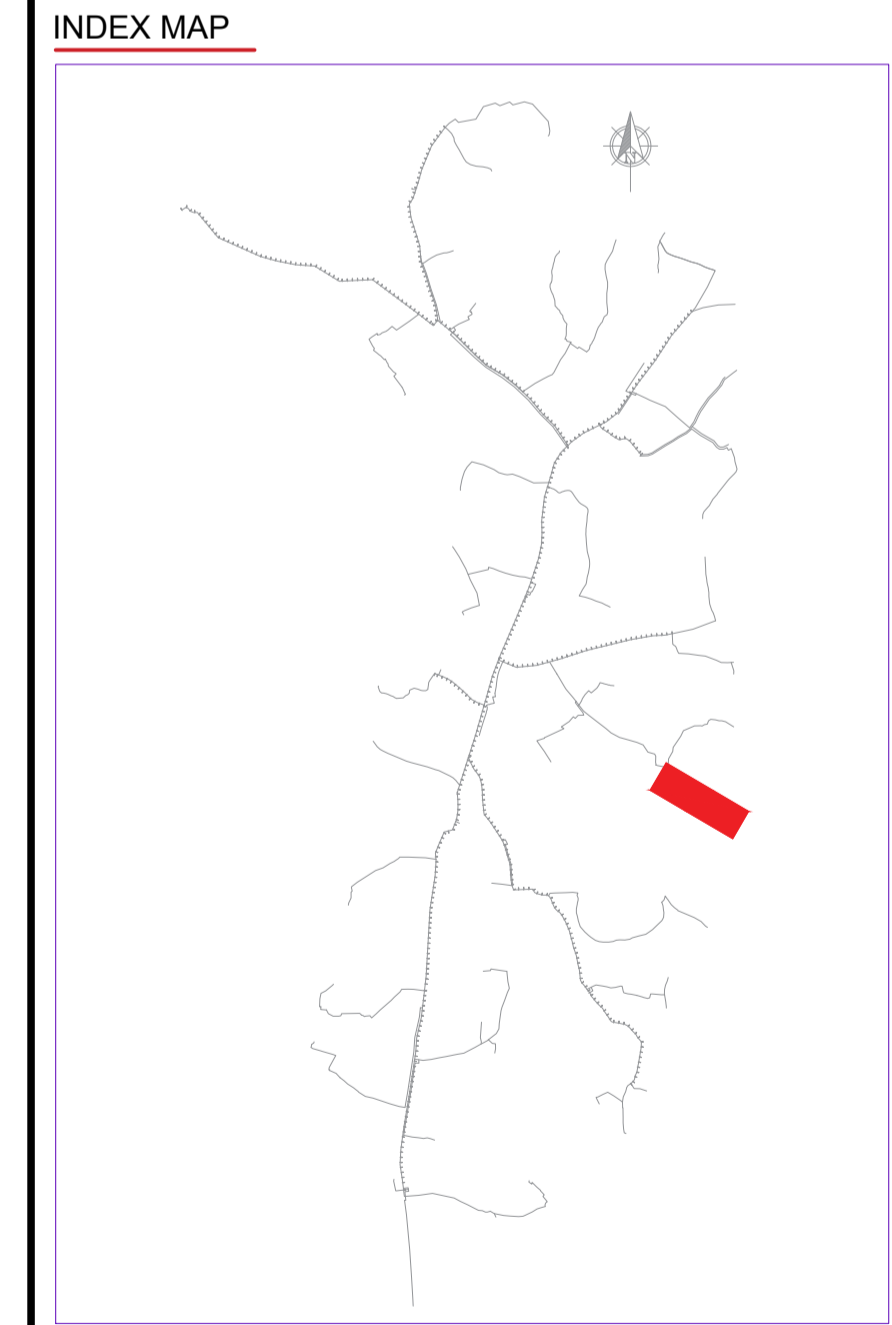
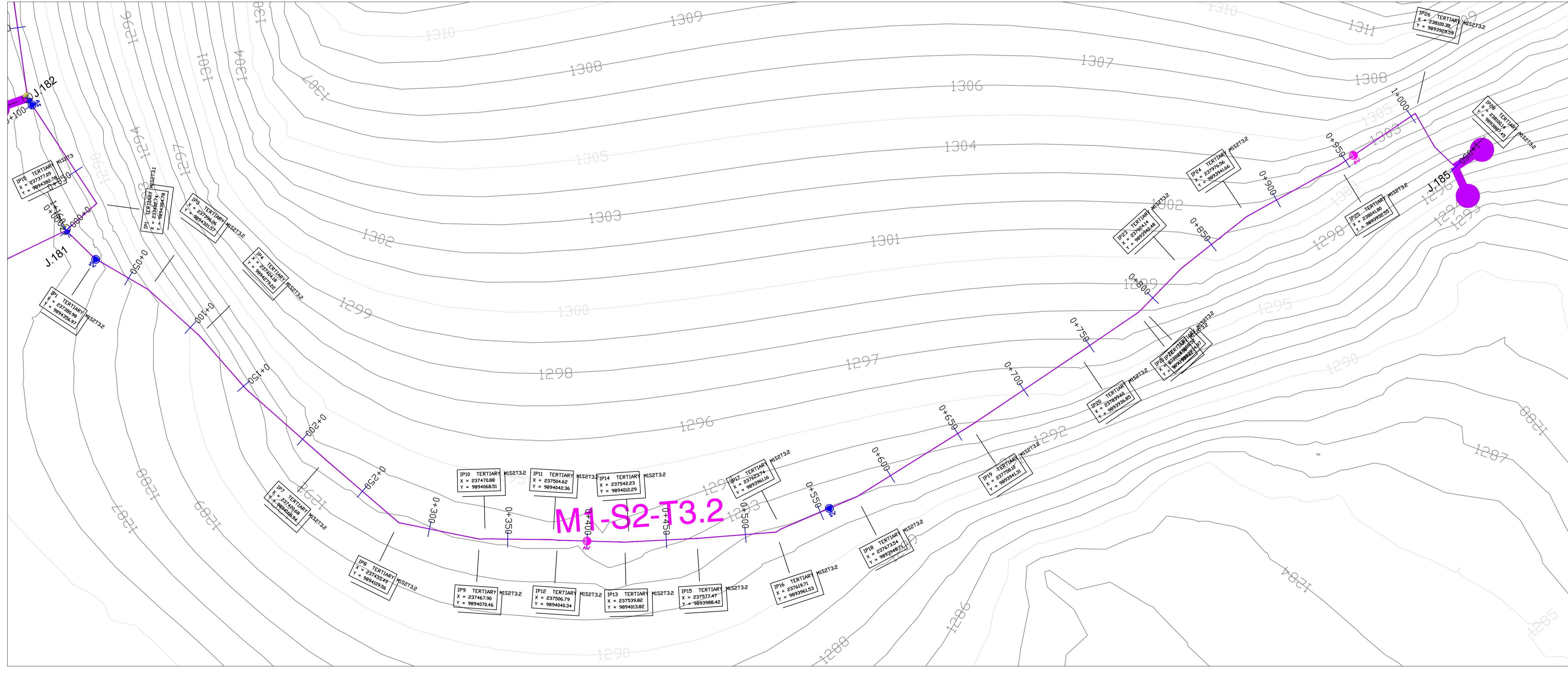
Consultants: **aarvee associates**
aarchitects-engineers-consultants-pvt-ltd
Ravula Residency, Shivajinagar Colony Main Rd., Hyderabad 50, India
Tel: +91-40-3373933 Fax: +91-40-3373977
e-mail: irrigation@aarvee.net web: www.aarvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1: 1000
Vertical 1: 100

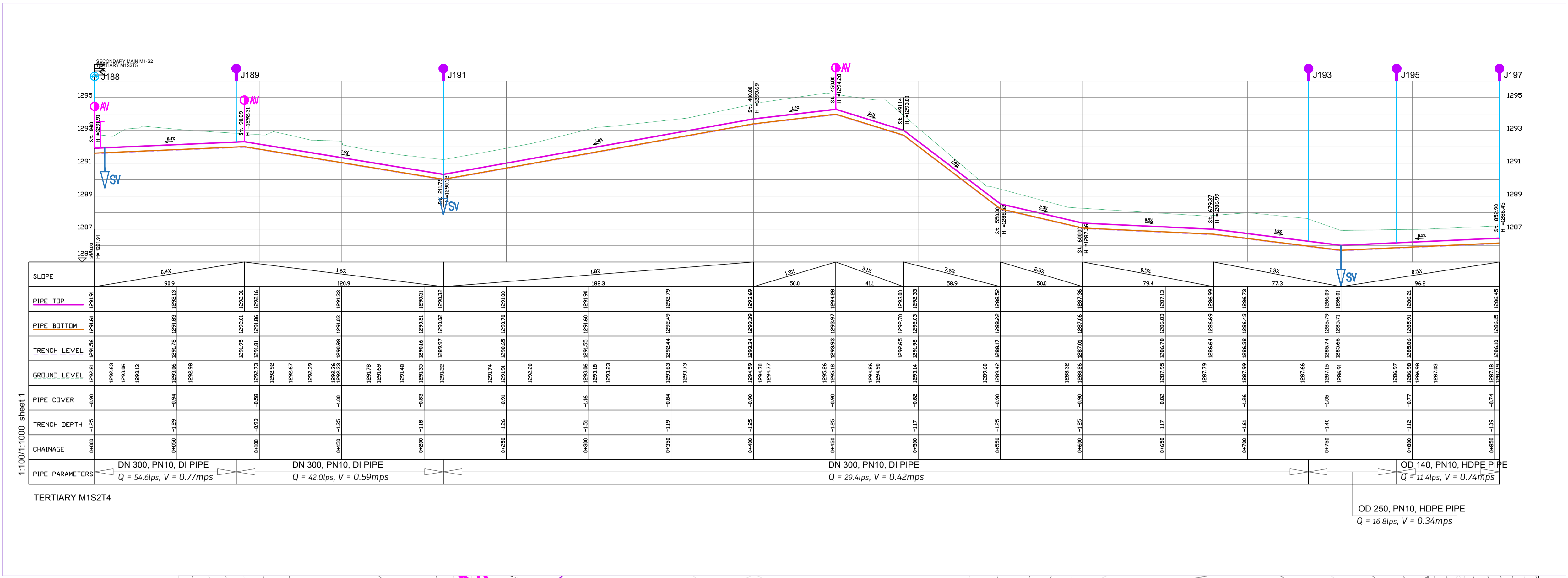
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S2T3.2**

Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd. S.
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 52, India
Tel: +91-40-3373933 Fax: +91-40-3373977
e-mail: irrigation@aarvee.net web: www.aarvee.net

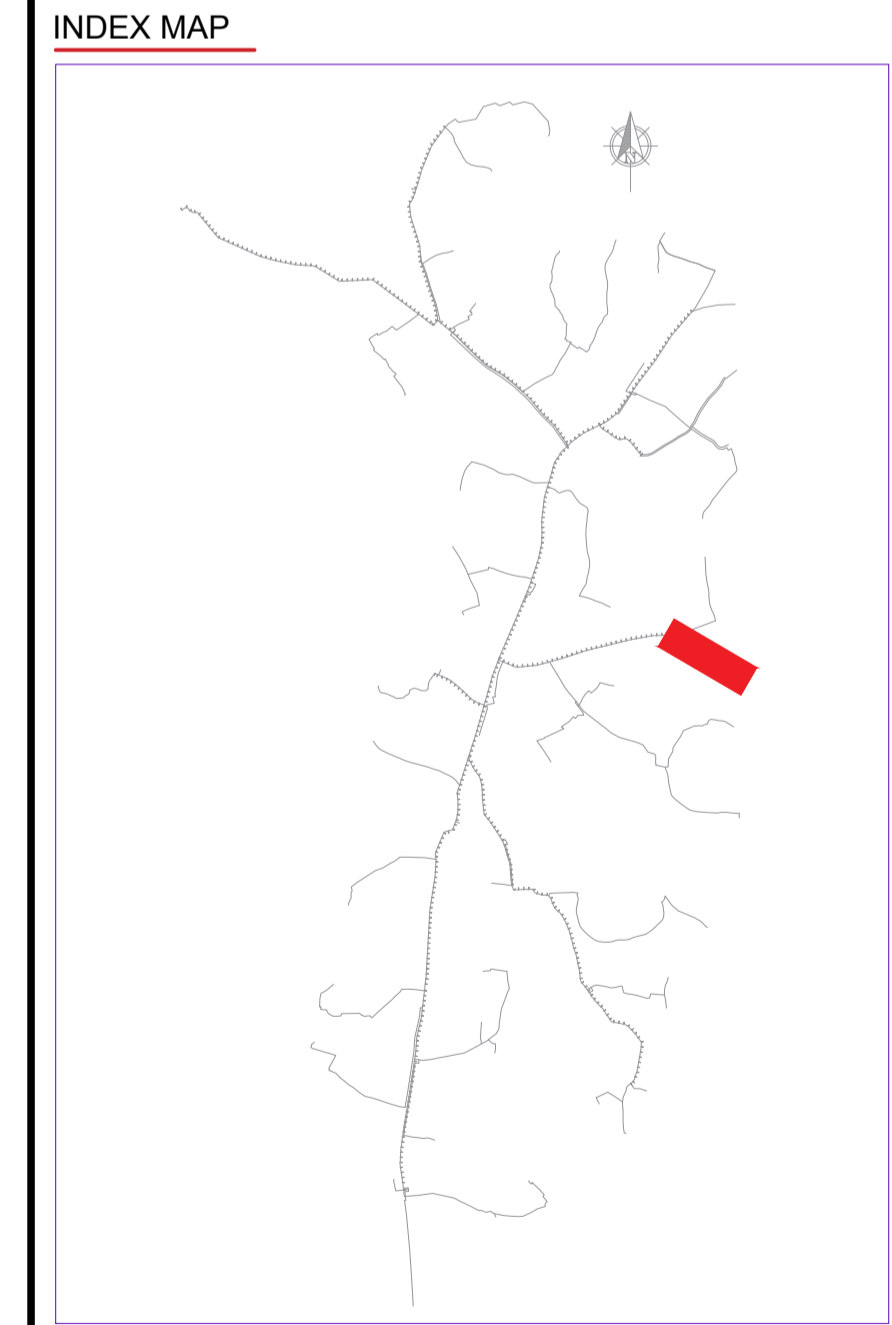
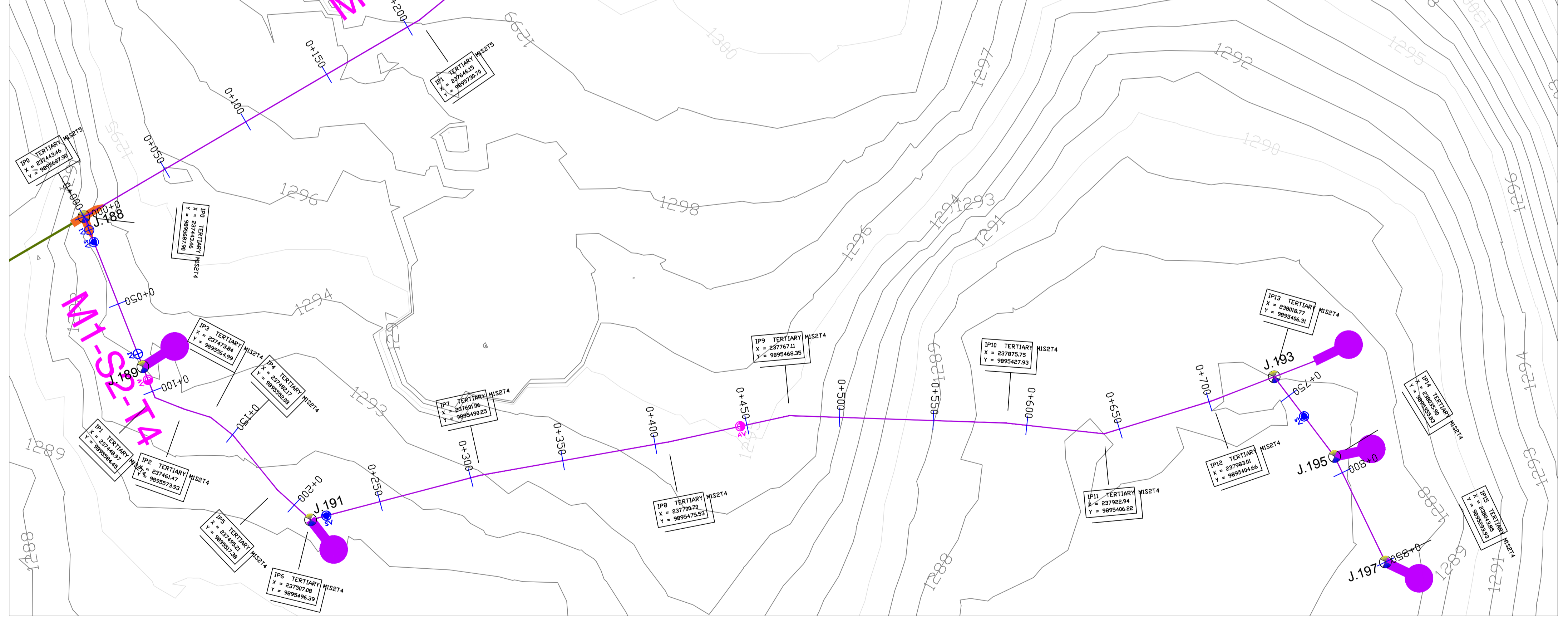
DRG. NO/MWE-KIS-NET-PP/M1S2T3-03 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- ### NOTES
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

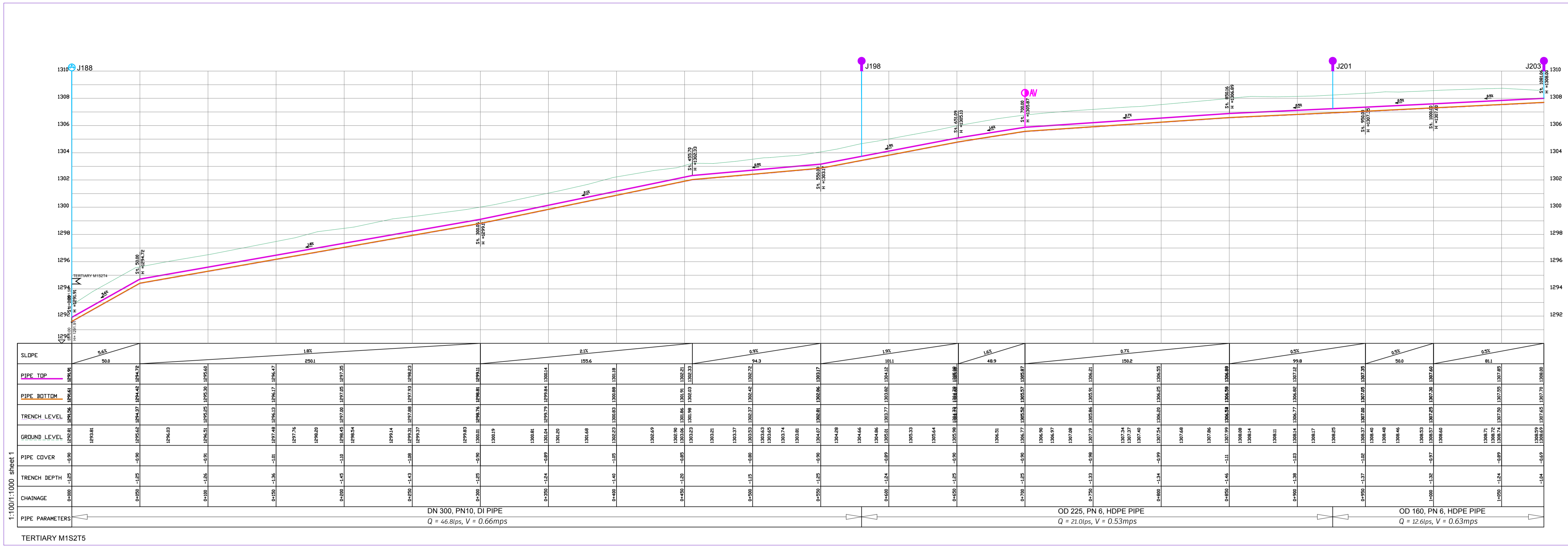
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S2T4**

Consultants: **arvee associates**
arvee associates consultants (pvt) ltd
Rwanda Roadside, Shigaga Colony Main Rd., Hydrobad 62, India
Tel: +91-48-3379333 Fax: +91-483279077
e-mail: irrigation@arvee.net web: www.arvee.net

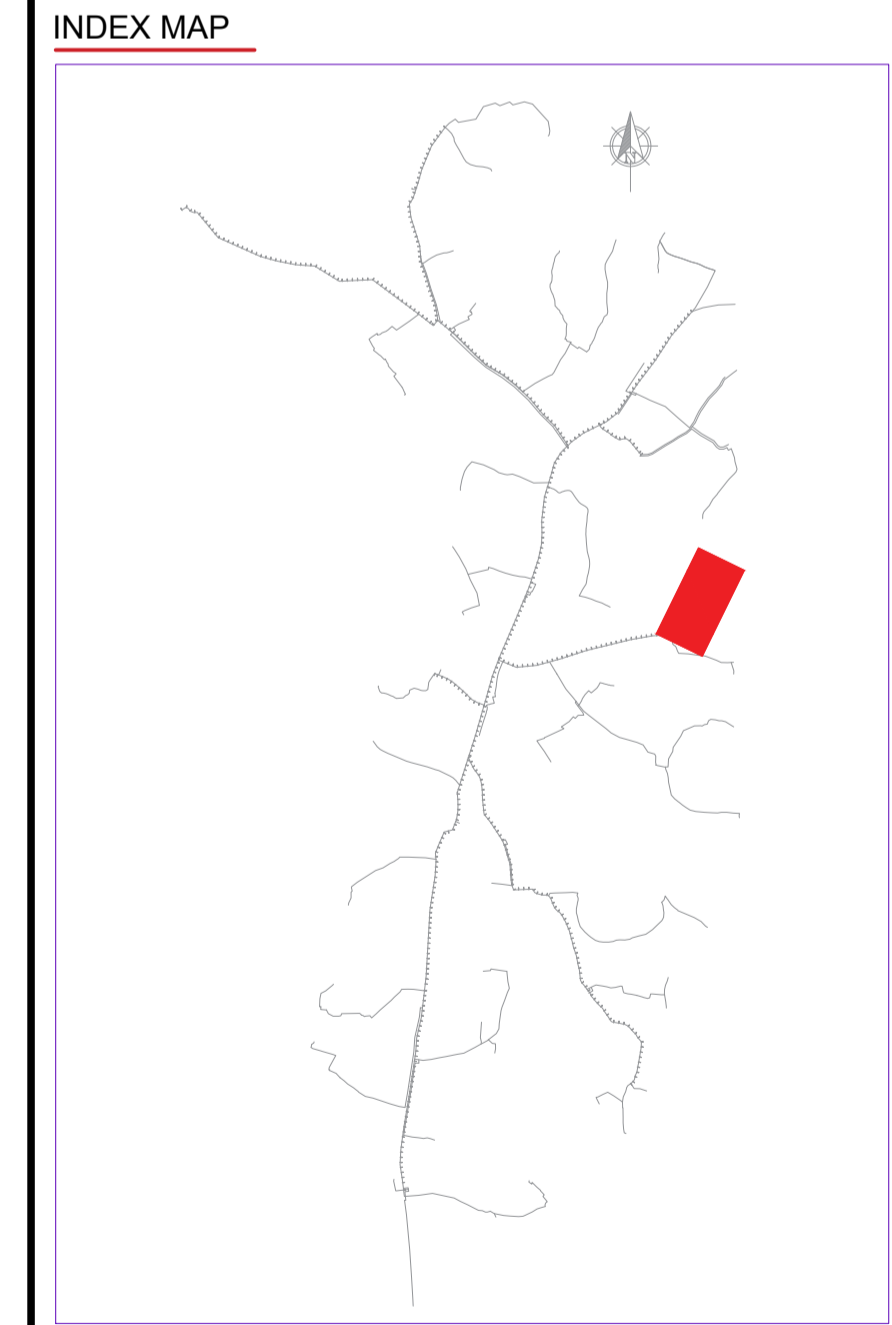
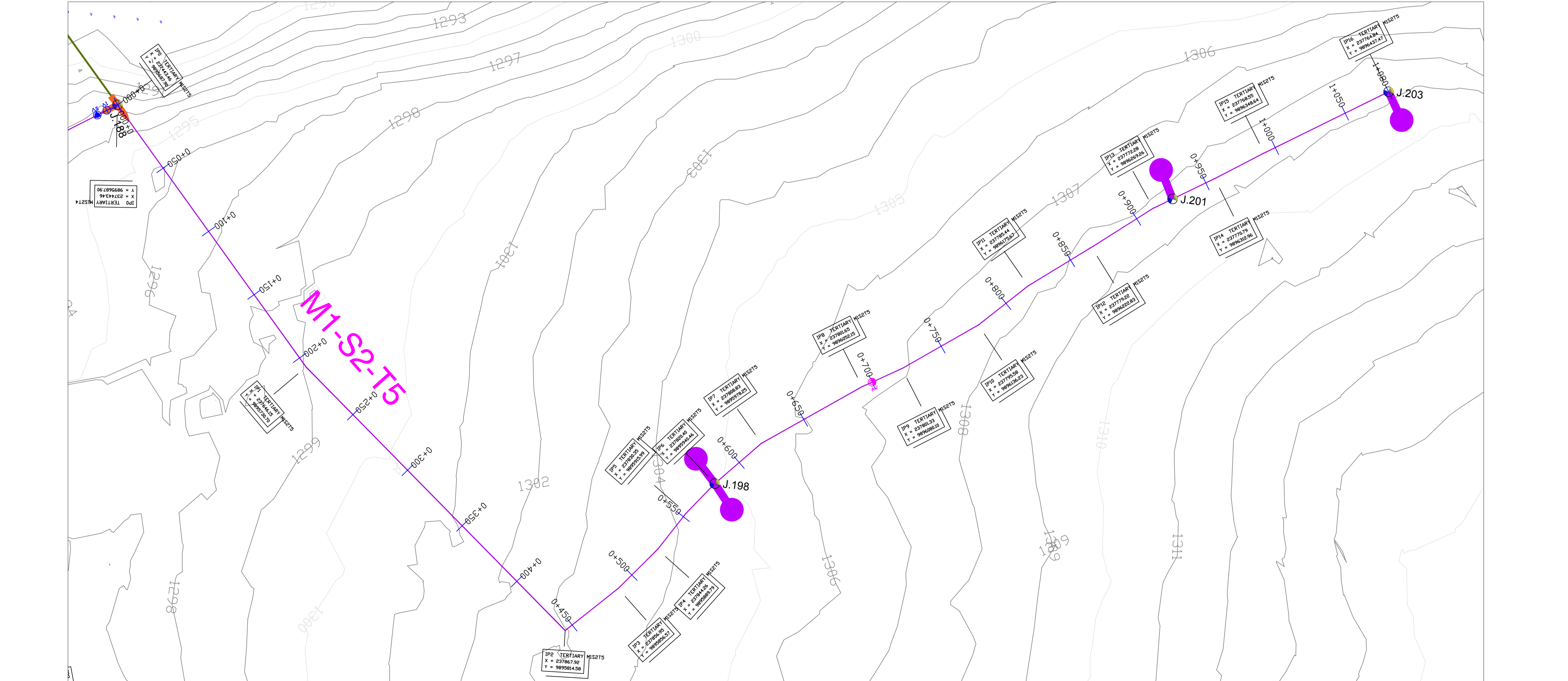
DRG. NO/MWE-KIS-NET-PP/M1S2T4-01 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

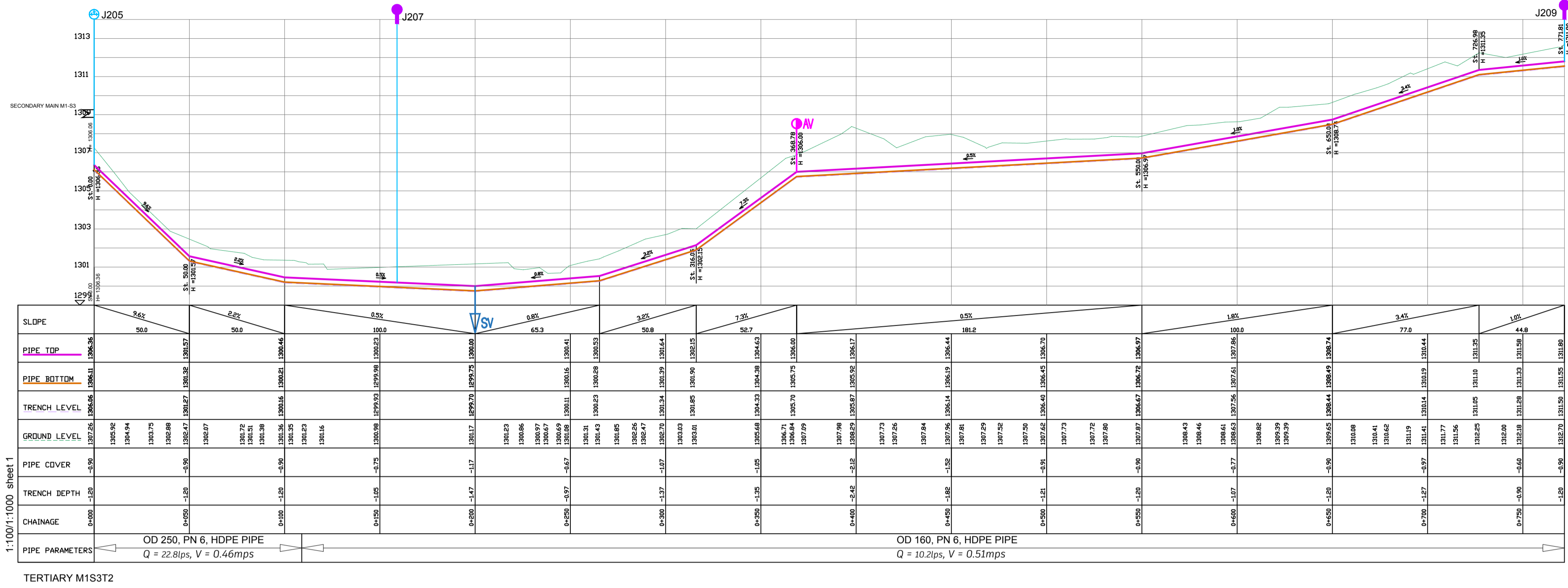
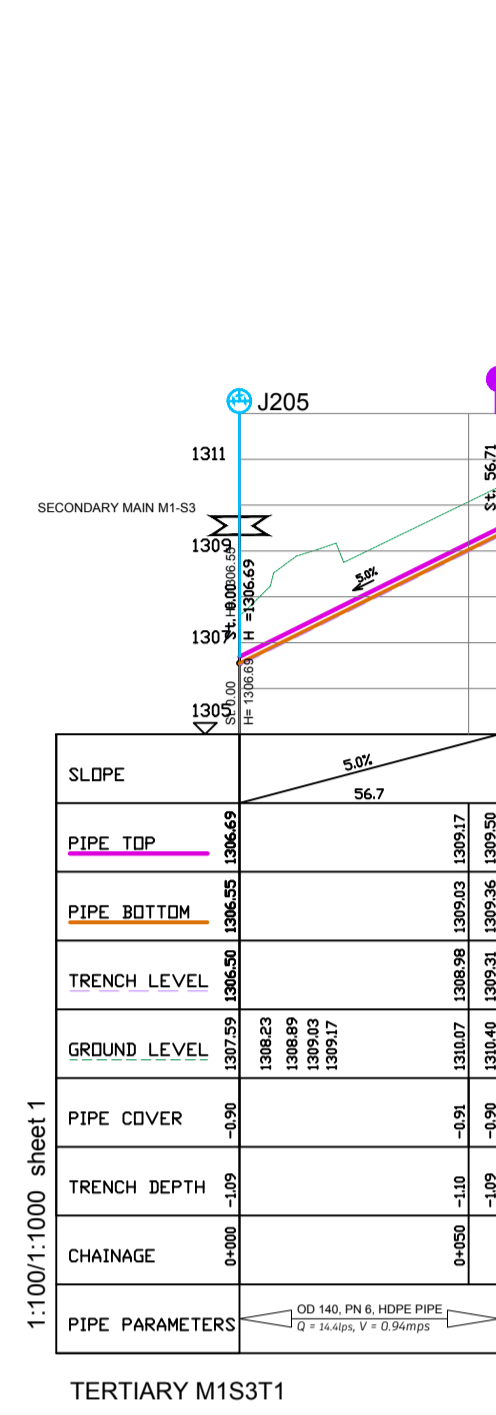
Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1S2T5**

Consultants: **arvee associates**
arvee associates consultants Pvt. Ltd.
Ravala Residency, Shreegar Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33376333 Fax: +91-40-33376377
e-mail: irrigation@arvee.net web: www.arvee.net

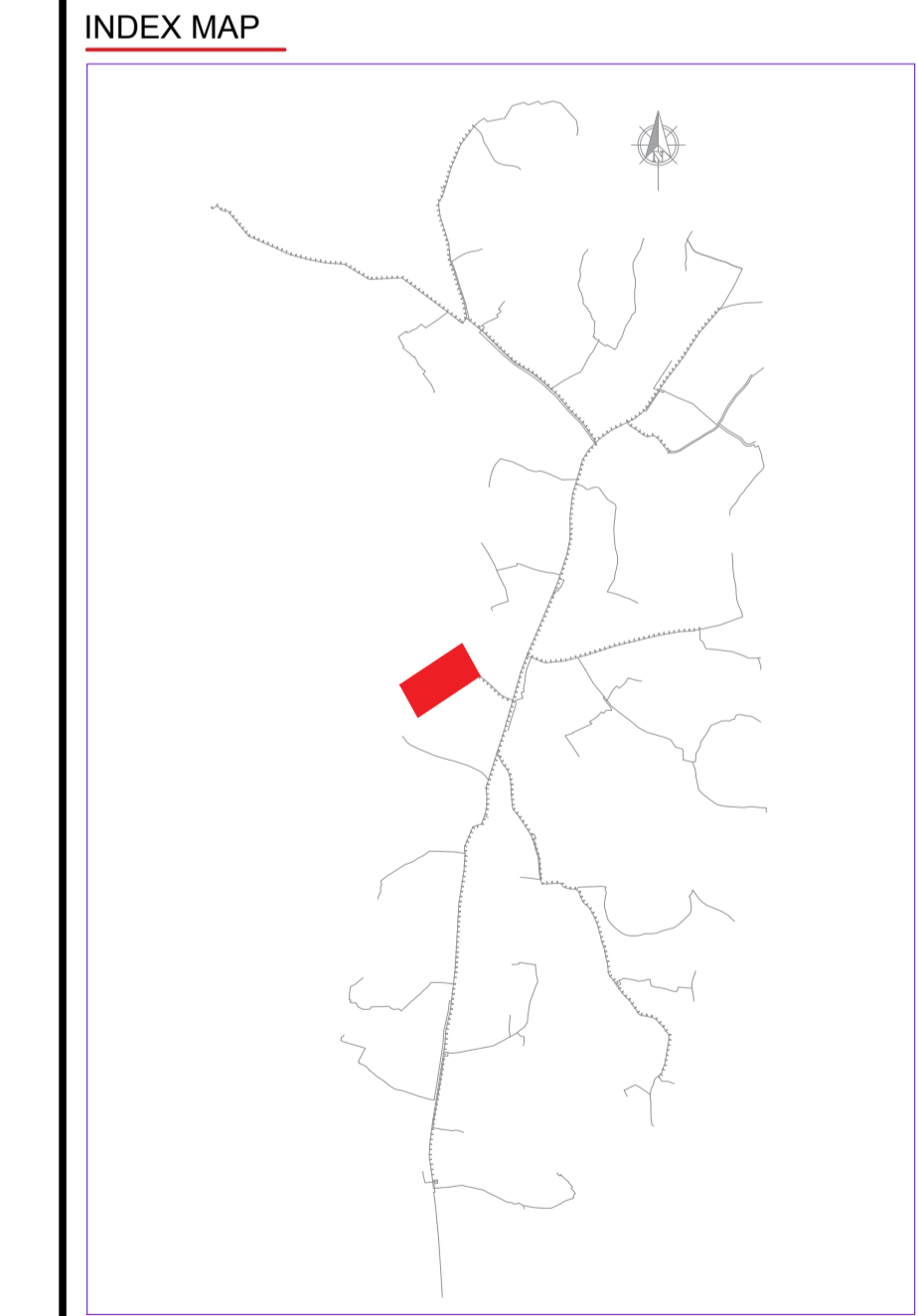
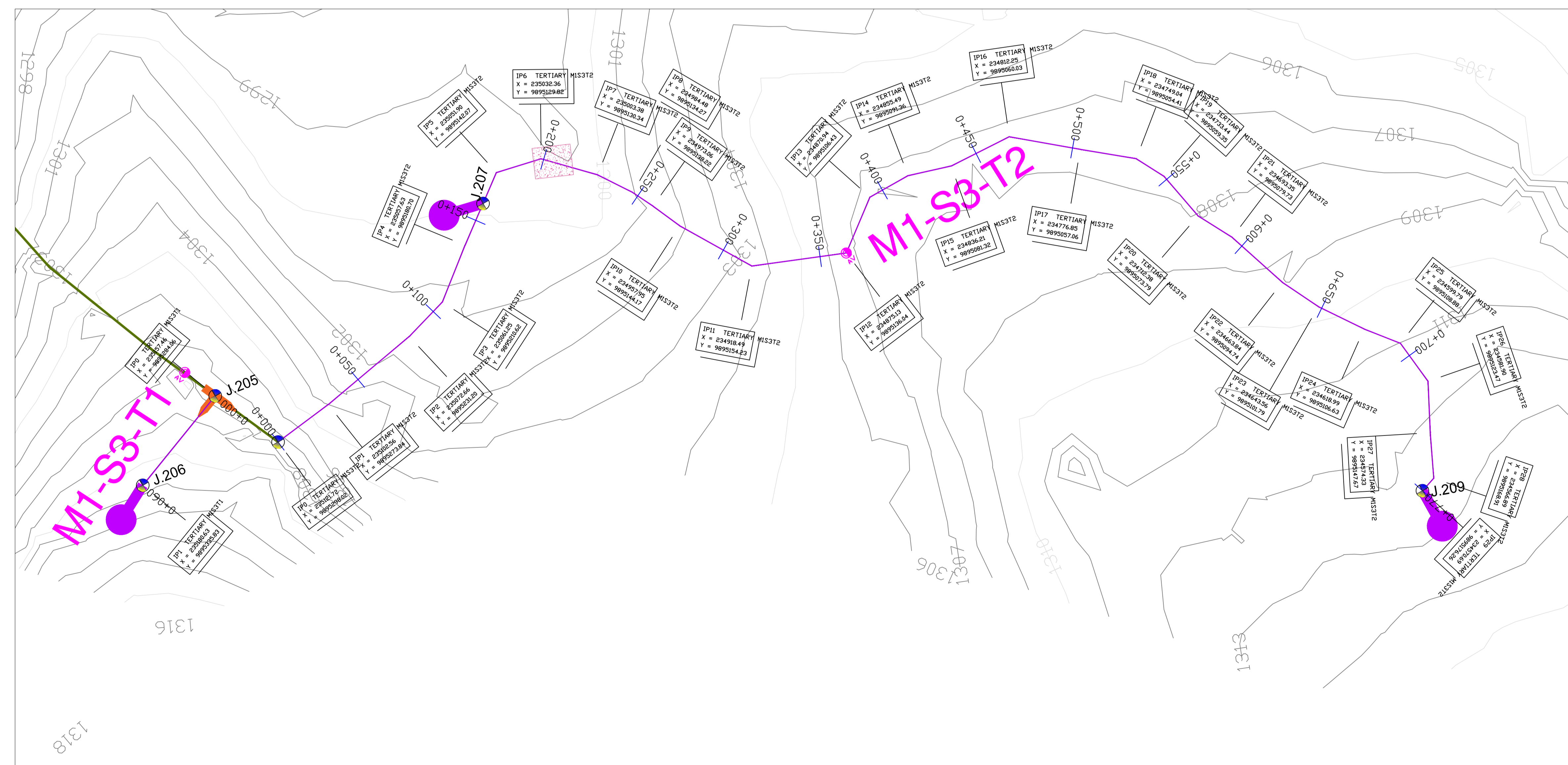
DRG. NO. MWE-KIS-NET-PP/M1S2T5-01 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

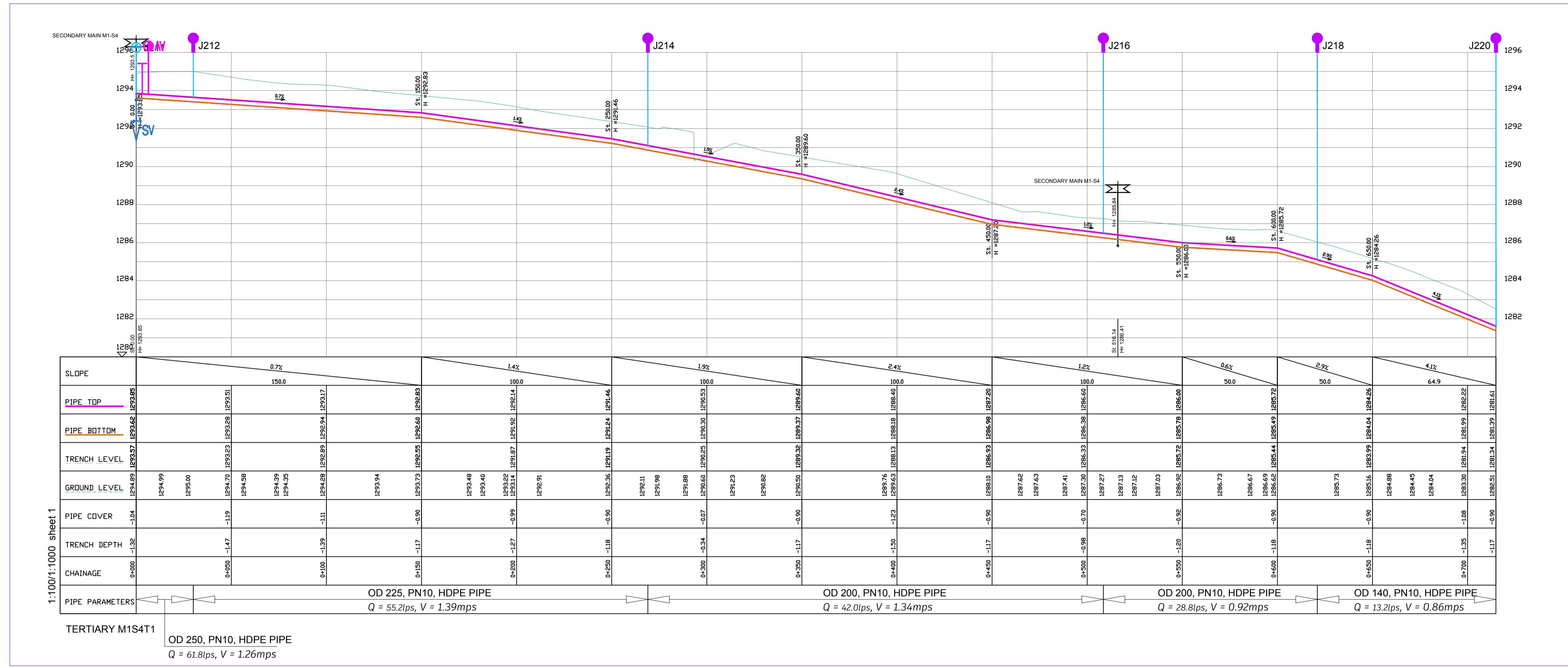
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S3T1 & M1S3T2**

Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd.
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 50, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net web: www.aarvee.net

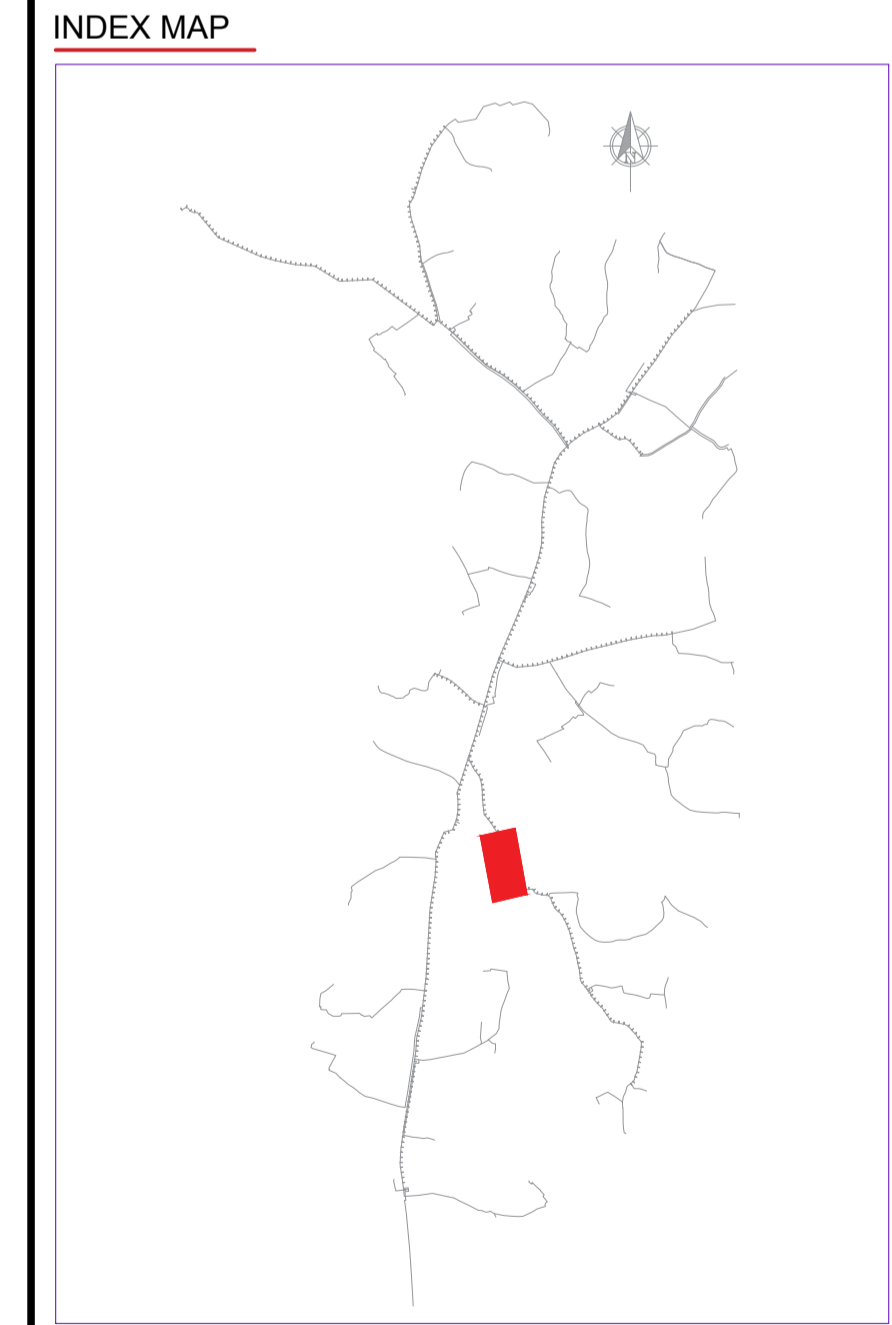
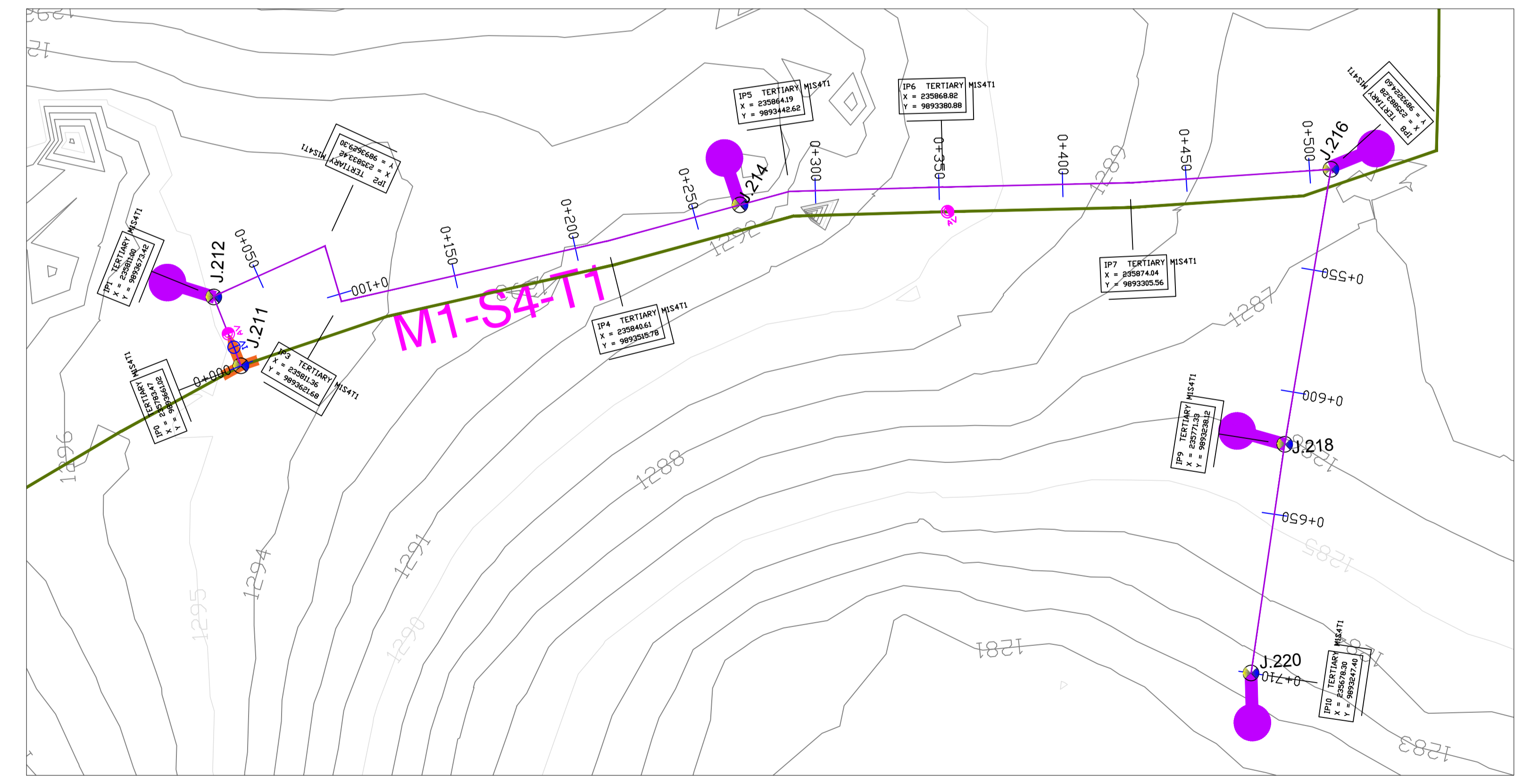
DRG. NO/MWE-KIS-NET-PP/M1S3T1-01 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- ⊗ JUNCTION LOCATIONS
- AV AIR VALVE On Profile View
- AV AIR VALVE On Plan View
- SV SCOUR VALVE On Profile View
- SV SCOUR VALVE On Plan View
- IV ISOLATION VALVE On Profile View
- IV ISOLATION VALVE On Plan View
- ASV ANTI-SURGE VALVE On Profile View
- ASV ANTI-SURGE VALVE On Plan View
- ⊕ PIPE T-JUNCTION On Profile View
- ⊕ PIPE CROSS-JUNCTION On Profile View
- ⊙ BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
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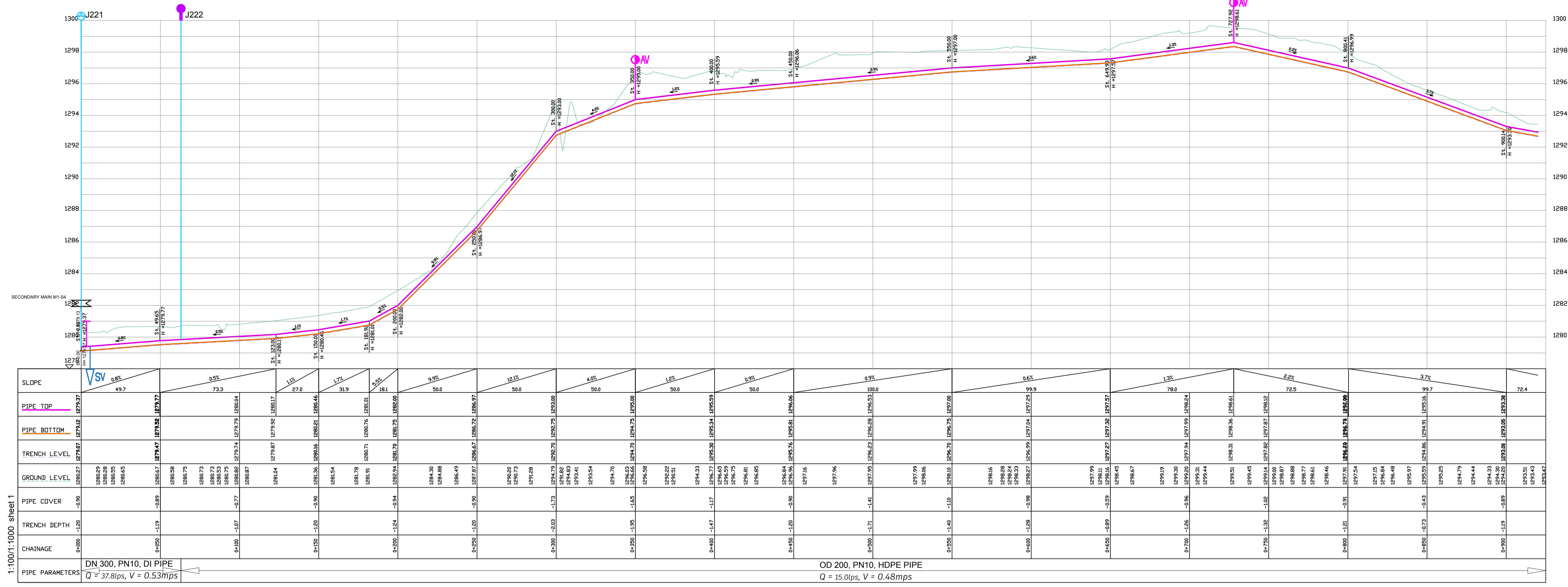
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S4T1**

Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd.
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33739333 Fax: +91-40-33739077
e-mail: irrigation@aarvee.net web: www.aarvee.net

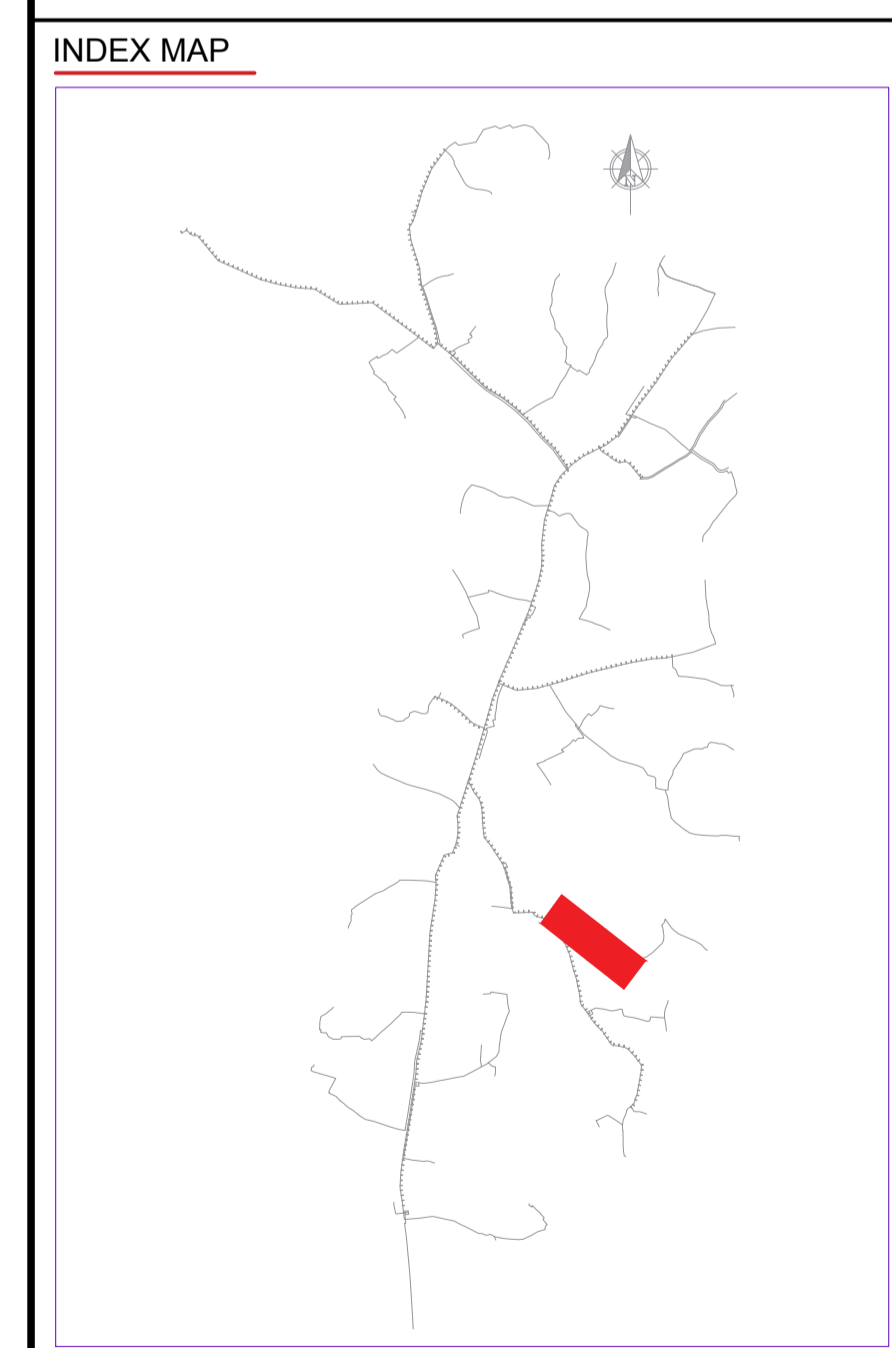
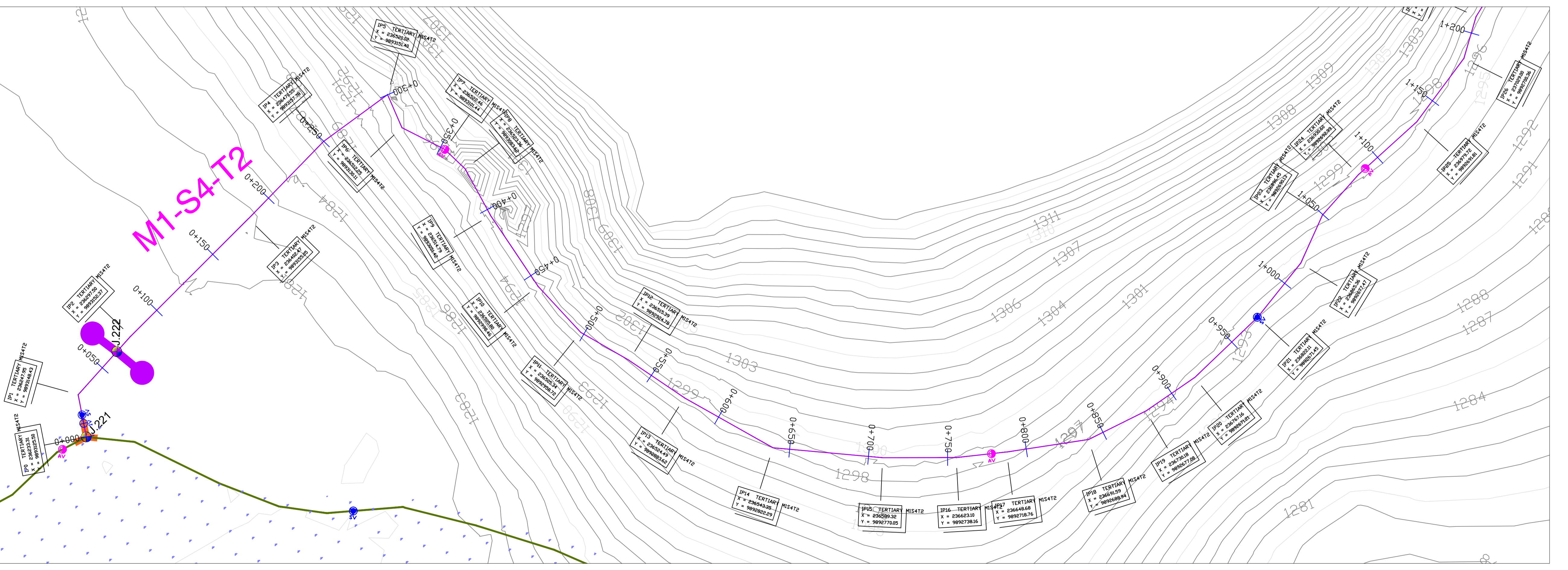


1:100/1:1000 sheet 1
TERTIARY M1S4T2

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View (AV)
- AIR VALVE On Plan View (AV)
- SCOUR VALVE On Profile View (SV)
- SCOUR VALVE On Plan View (SV)
- ISOLATION VALVE On Profile View (IV)
- ISOLATION VALVE On Plan View (IV)
- ANTI-SURGE VALVE On Profile View (ASV)
- ANTI-SURGE VALVE On Plan View (ASV)
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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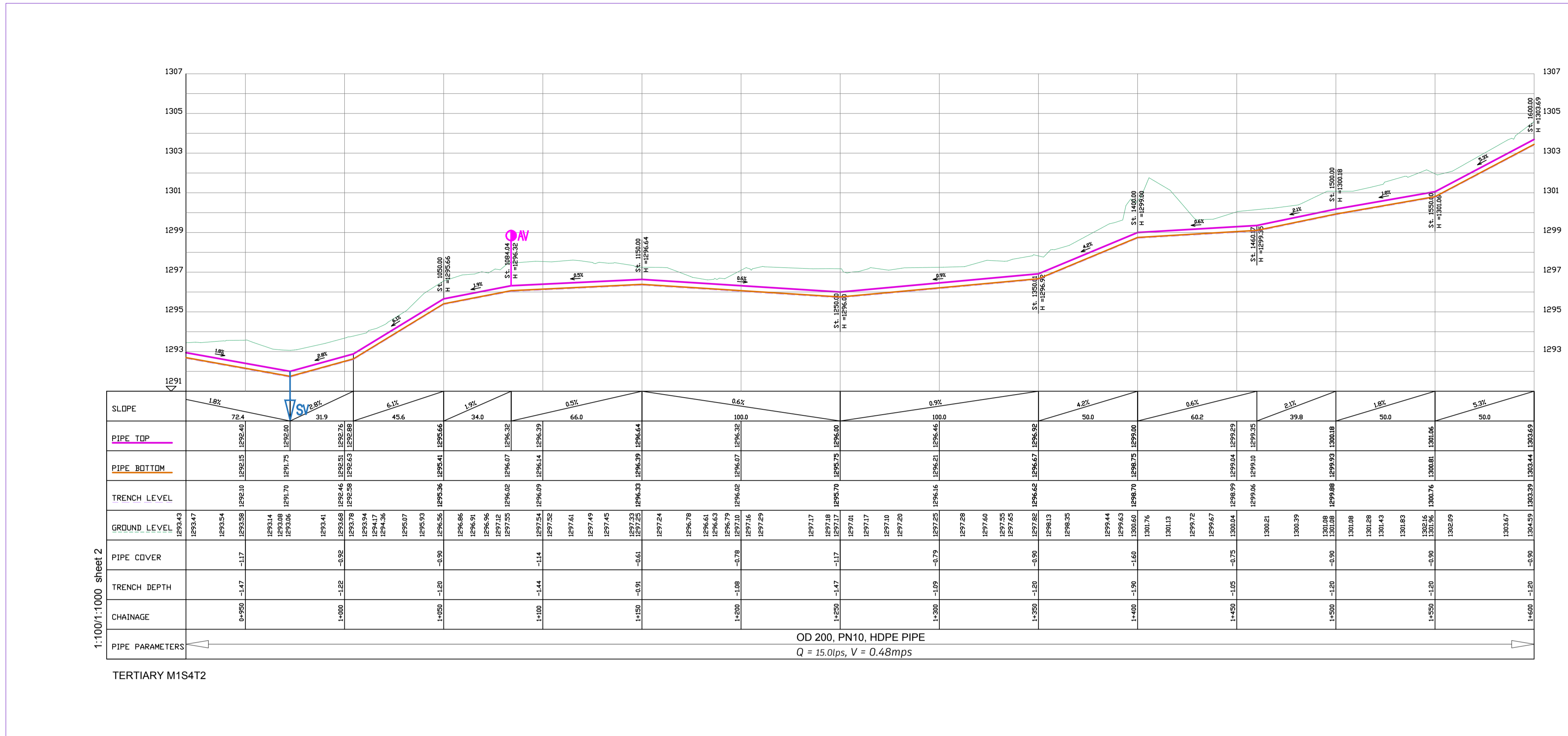
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Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S4T2**

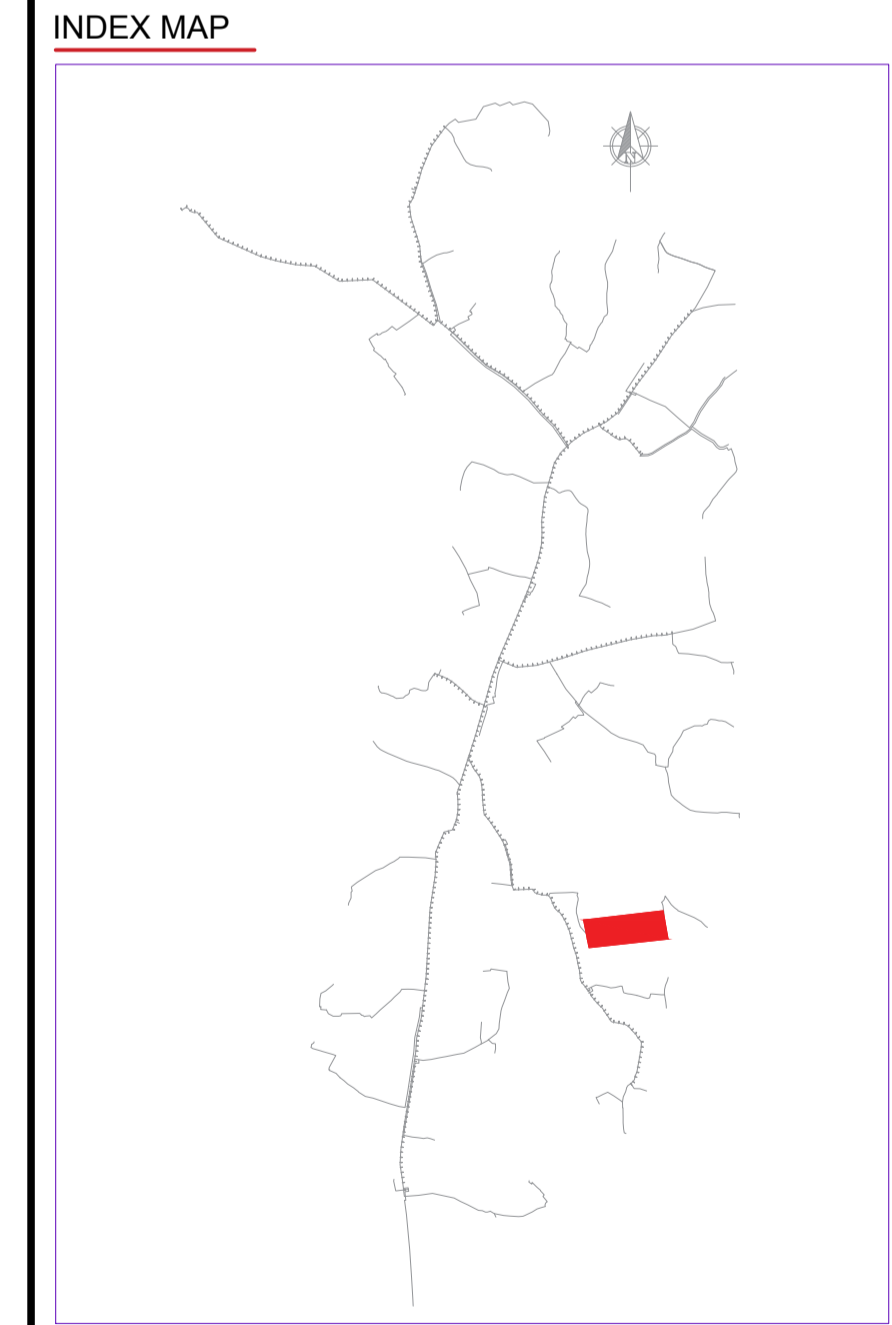
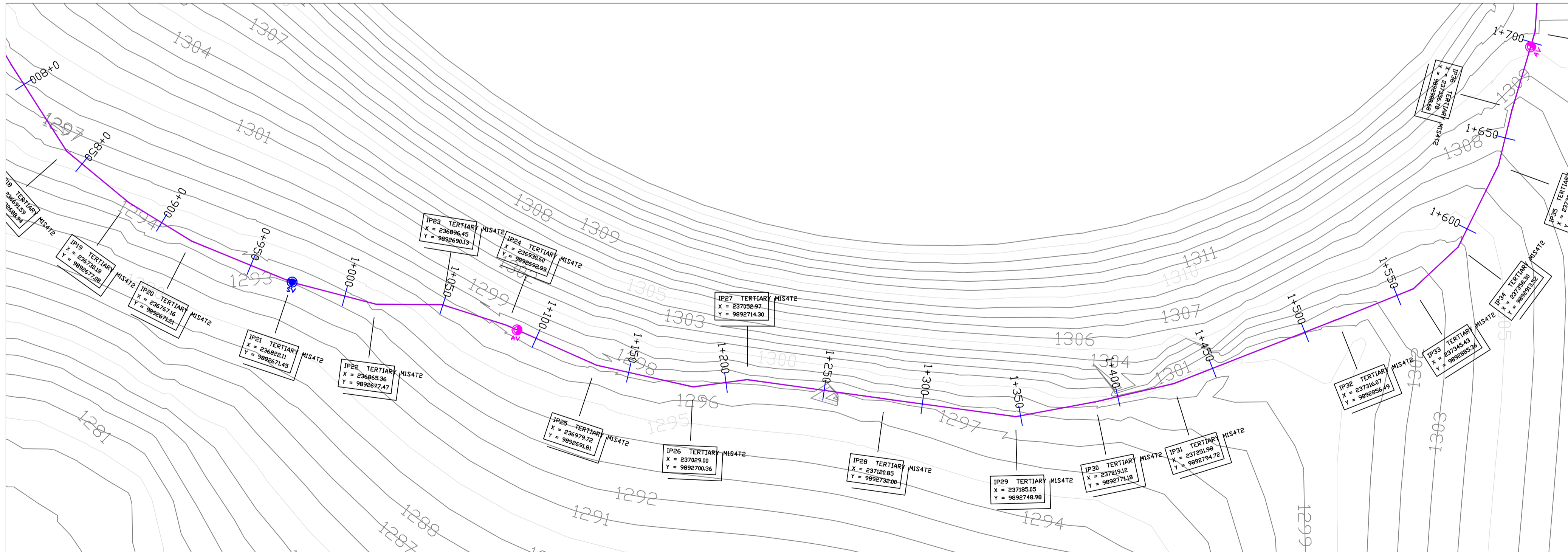
Consultants: **aarvee associates**
aarevee associates consultants Pvt.Ltd.S
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 62, India
Tel: +91-40-3373933 Fax: +91-40-2219077
e-mail: irrigation@aarvee.net web: www.aarvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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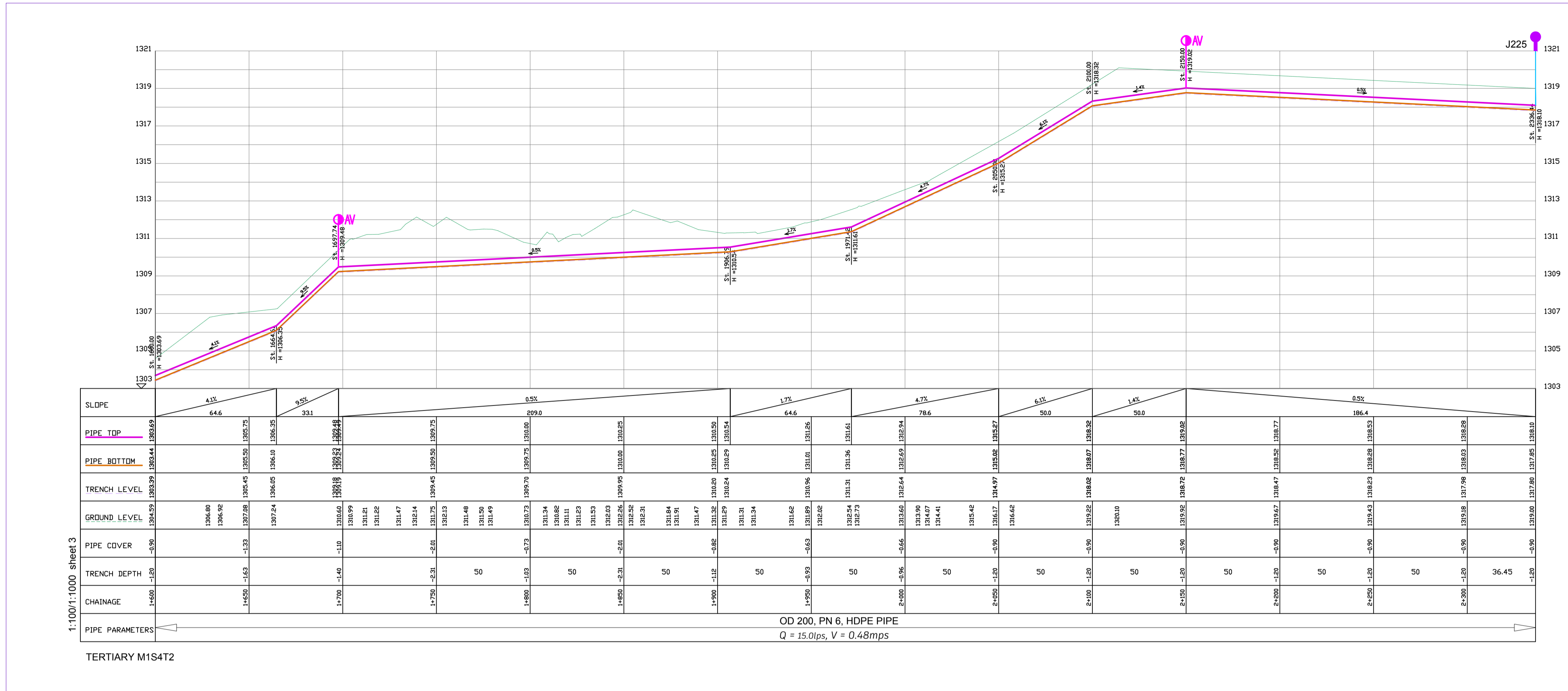
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

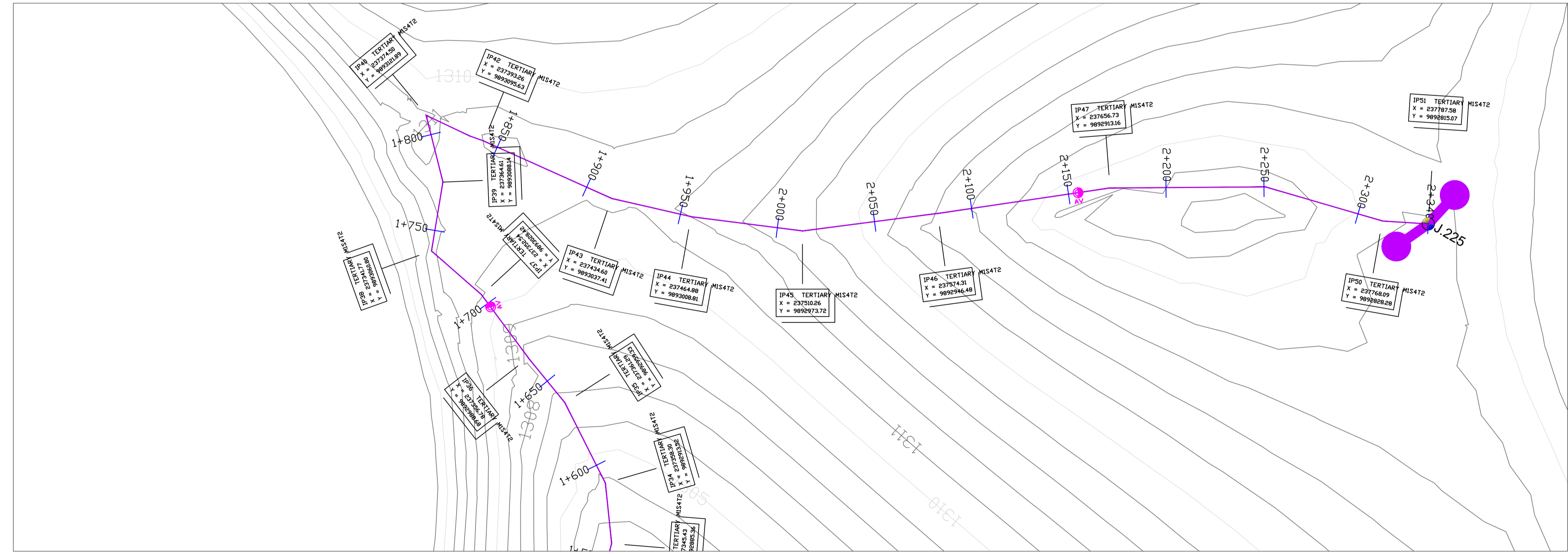
Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S4T2**

Consultants: **arvee associates**
arvee associates consultants (pvt) ltd. S
Ravula Residency, Shrihar Colony Main Rd., Hyderabad 62, India
Tel: +91-40-3373933 Fax: +91-40-3373937
e-mail: irrigation@arvee.net web: www.arvee.net



1:1000/1:1000 sheet 3

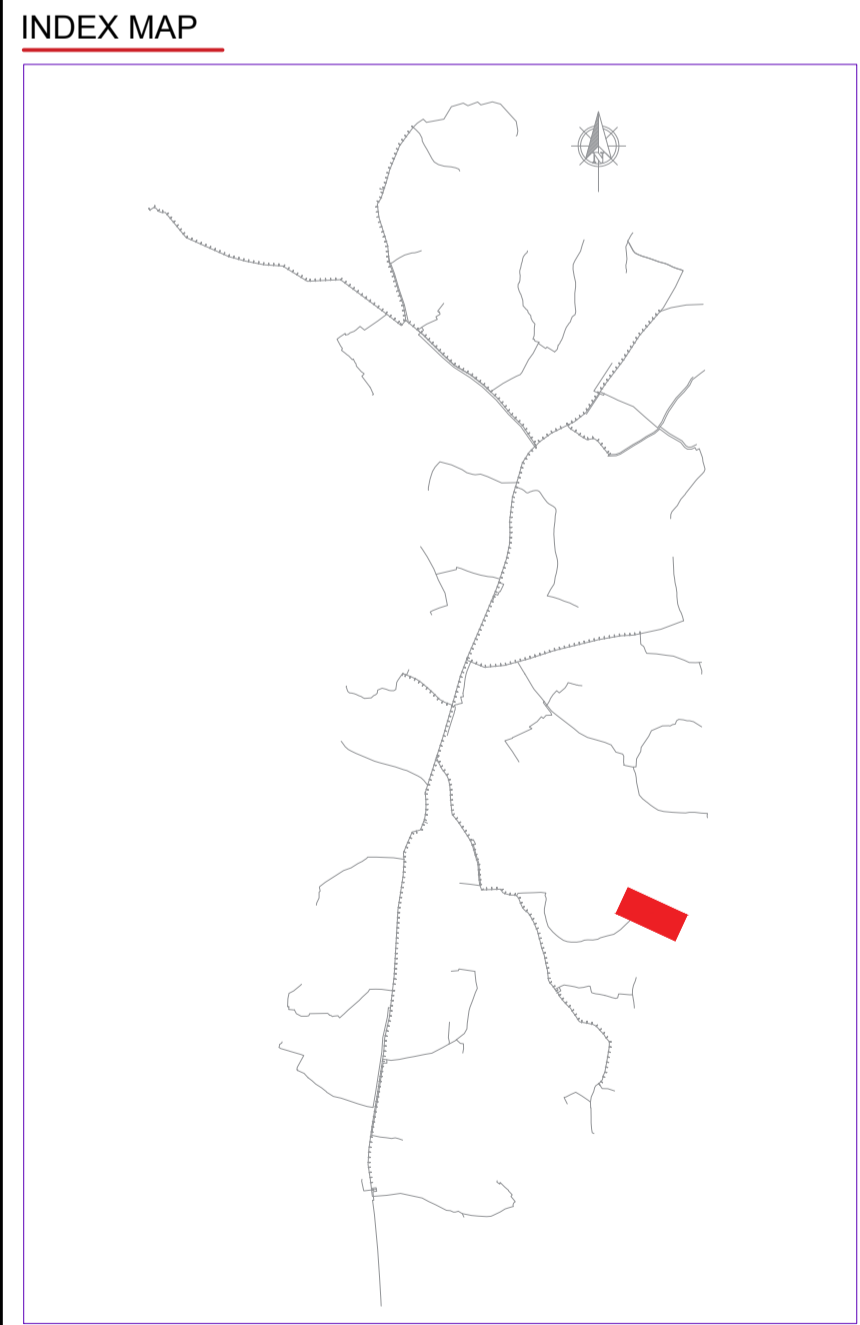
TERTIARY M1S4T2



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



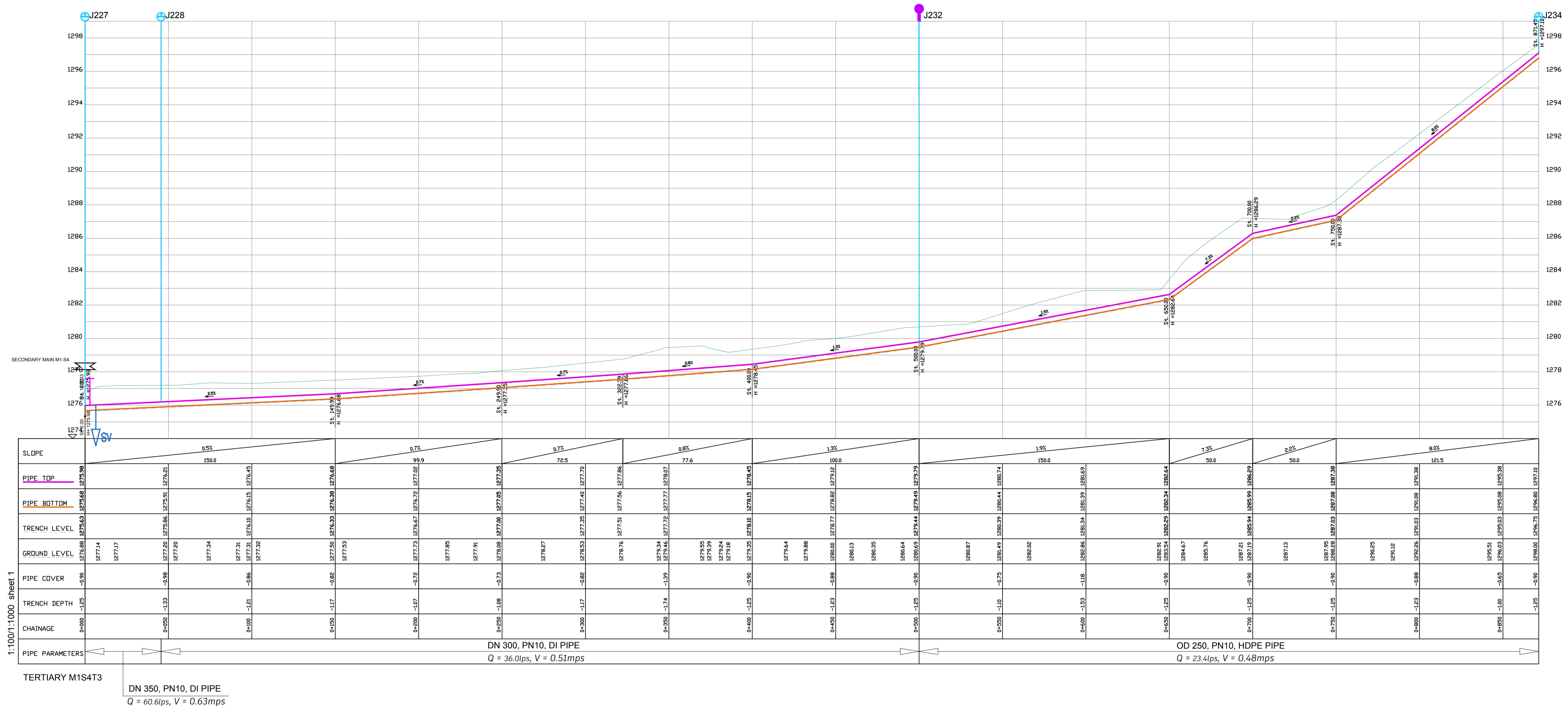
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Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
TERTIARY MAIN M1S4T2

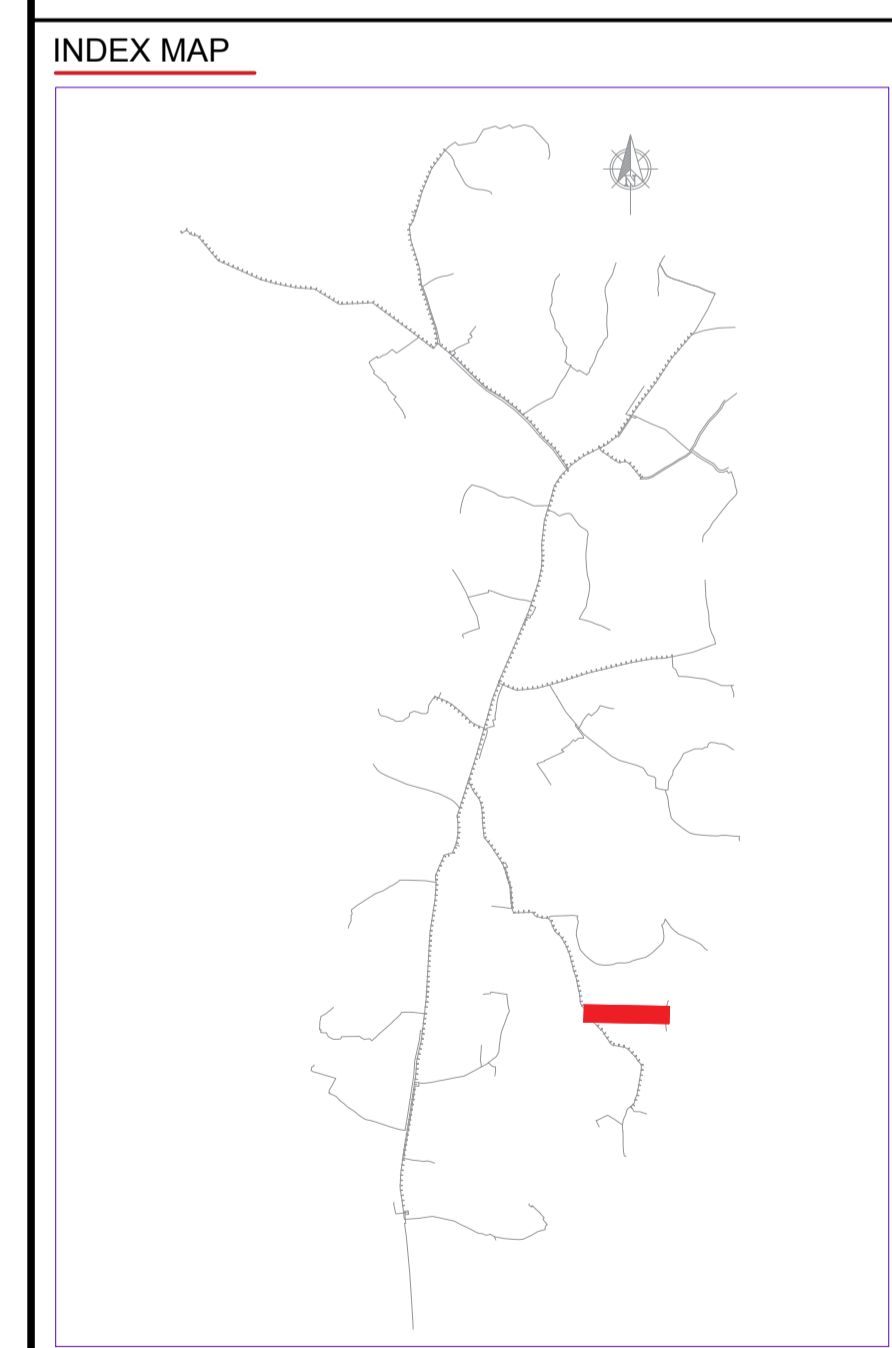
Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd.
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 50, India
Tel: +91-40-3379333 Fax: +91-40-3379377
e-mail: irrigation@aarvee.net web: www.aarvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- ⊗ JUNCTION LOCATIONS
- AV AIR VALVE On Profile View
- AV AIR VALVE On Plan View
- SV SCOUR VALVE On Profile View
- SV SCOUR VALVE On Plan View
- IV ISOLATION VALVE On Profile View
- IV ISOLATION VALVE On Plan View
- ASV ANTI-SURGE VALVE On Profile View
- ASV ANTI-SURGE VALVE On Plan View
- ⊕ PIPE T-JUNCTION On Profile View
- ⊕ PIPE CROSS-JUNCTION On Profile View
- ⊗ BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE ROAD-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



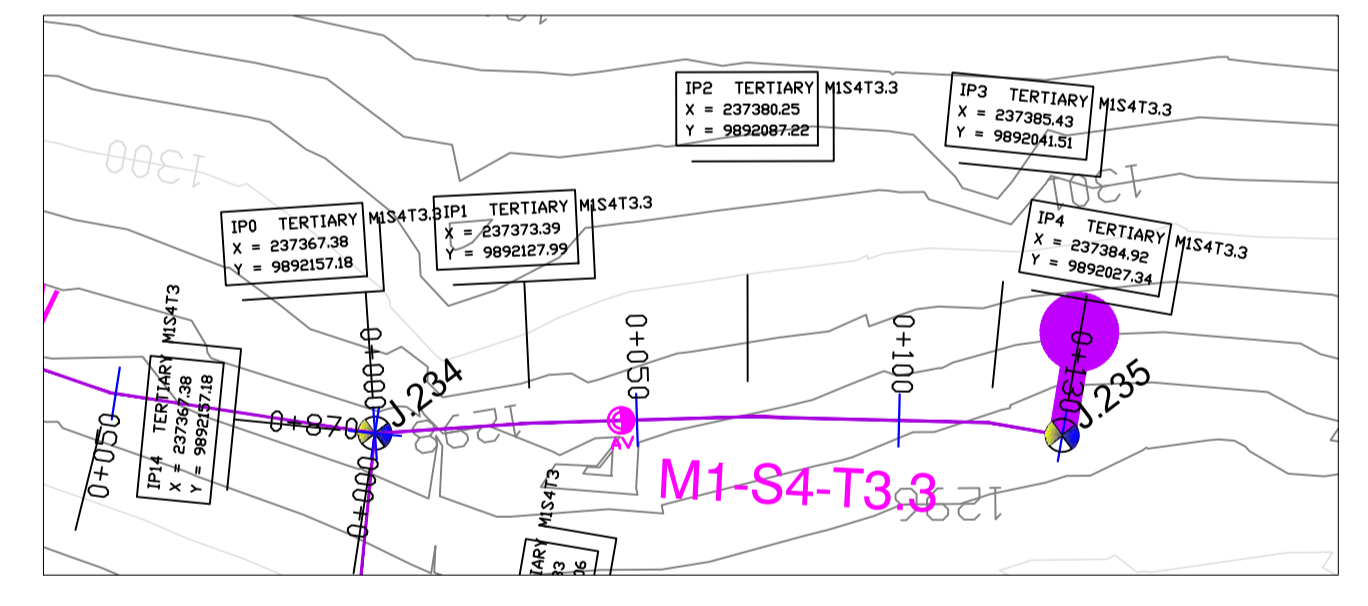
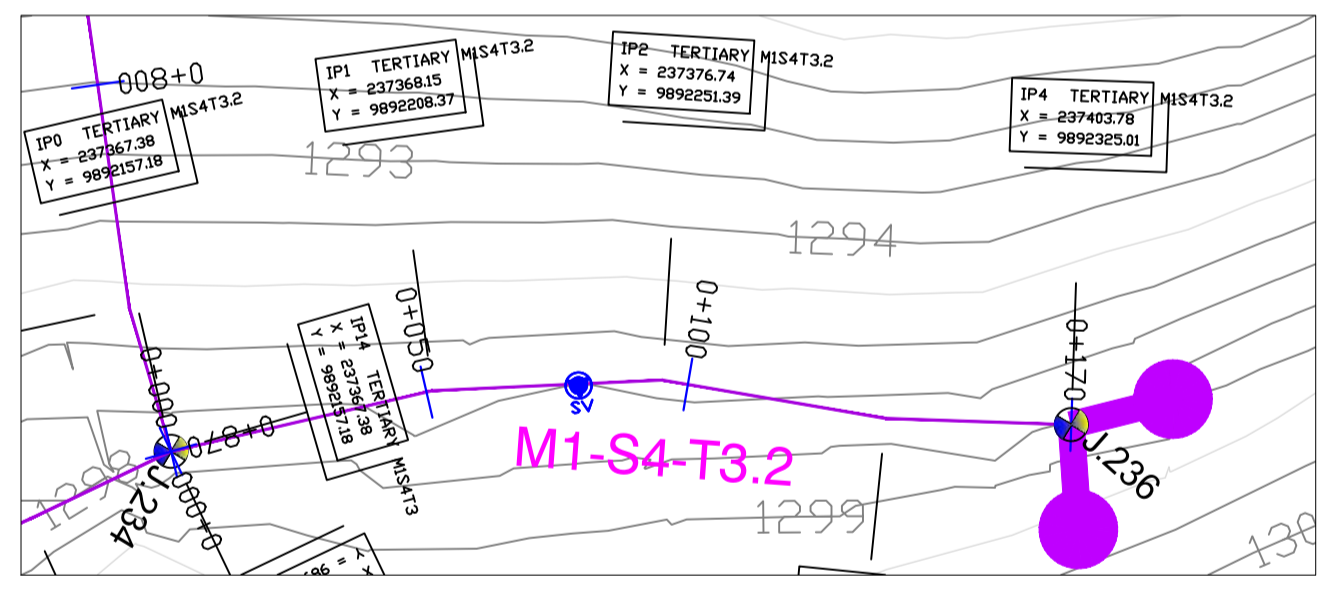
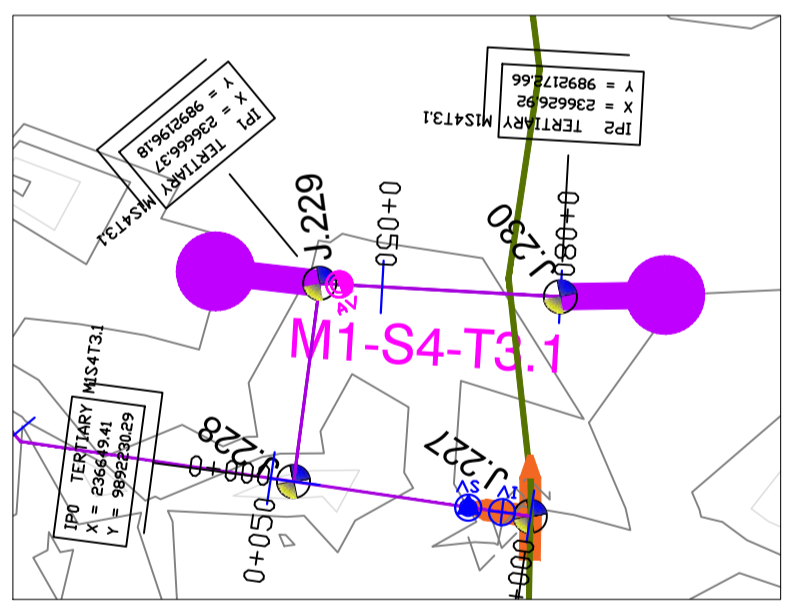
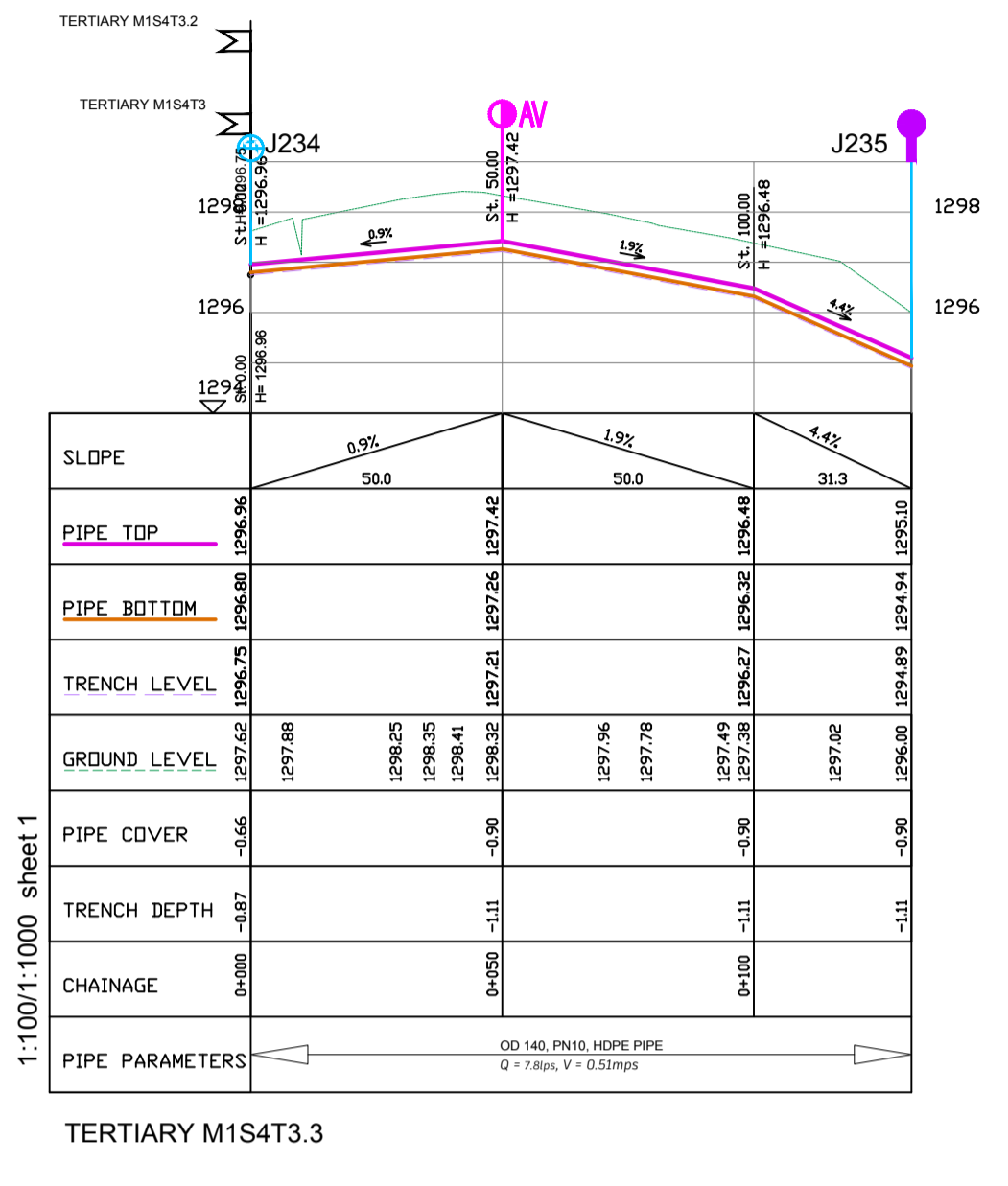
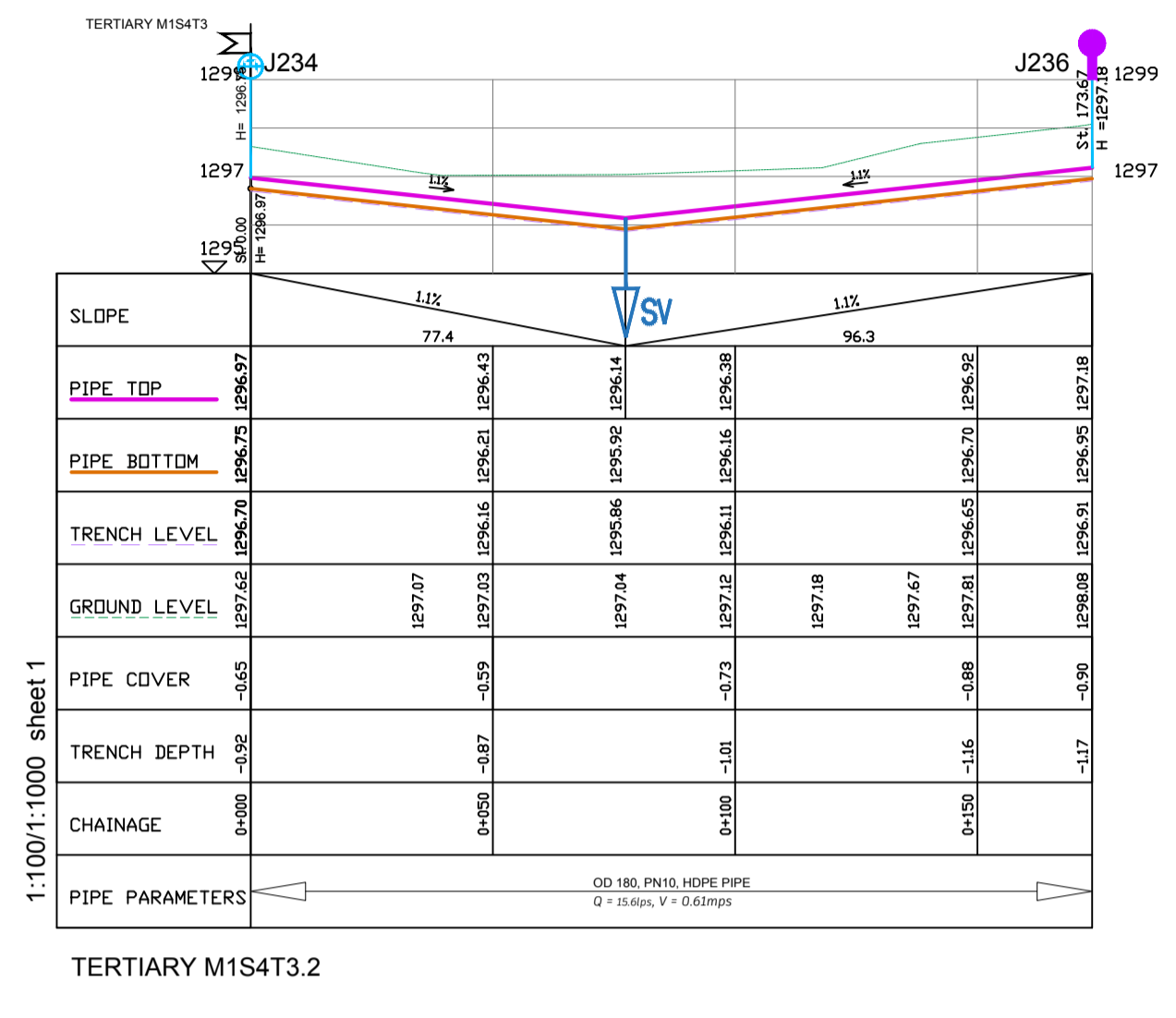
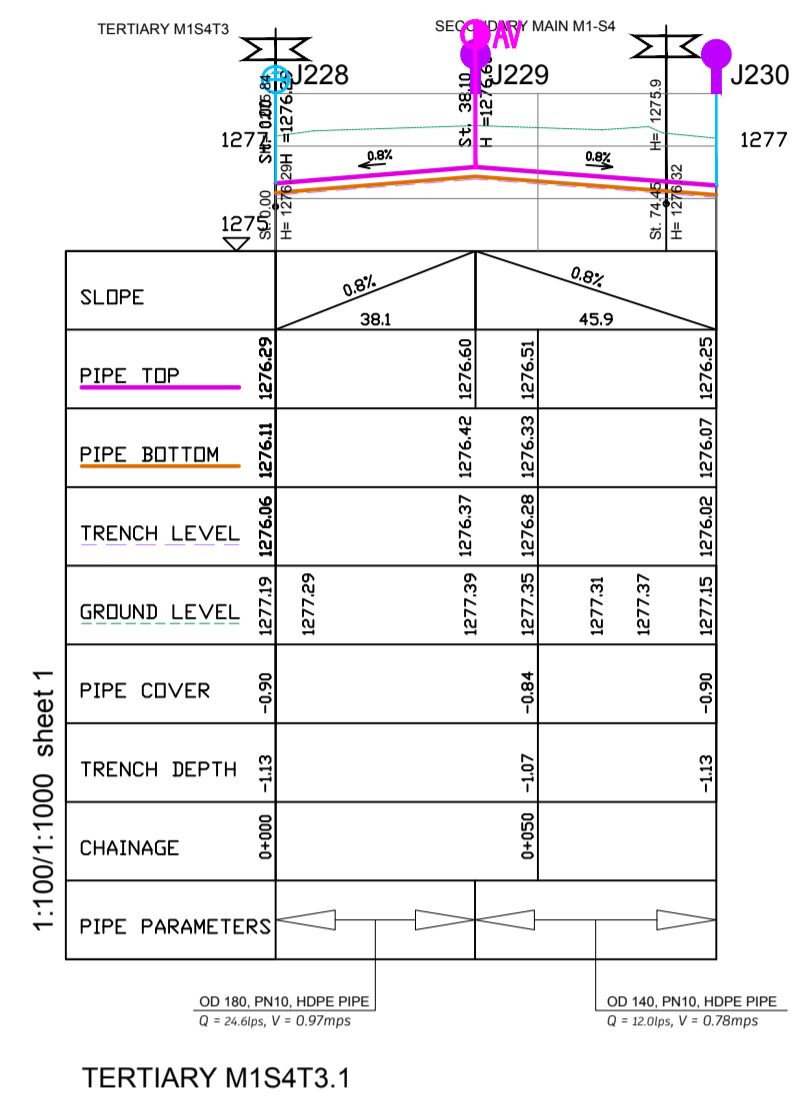
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Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

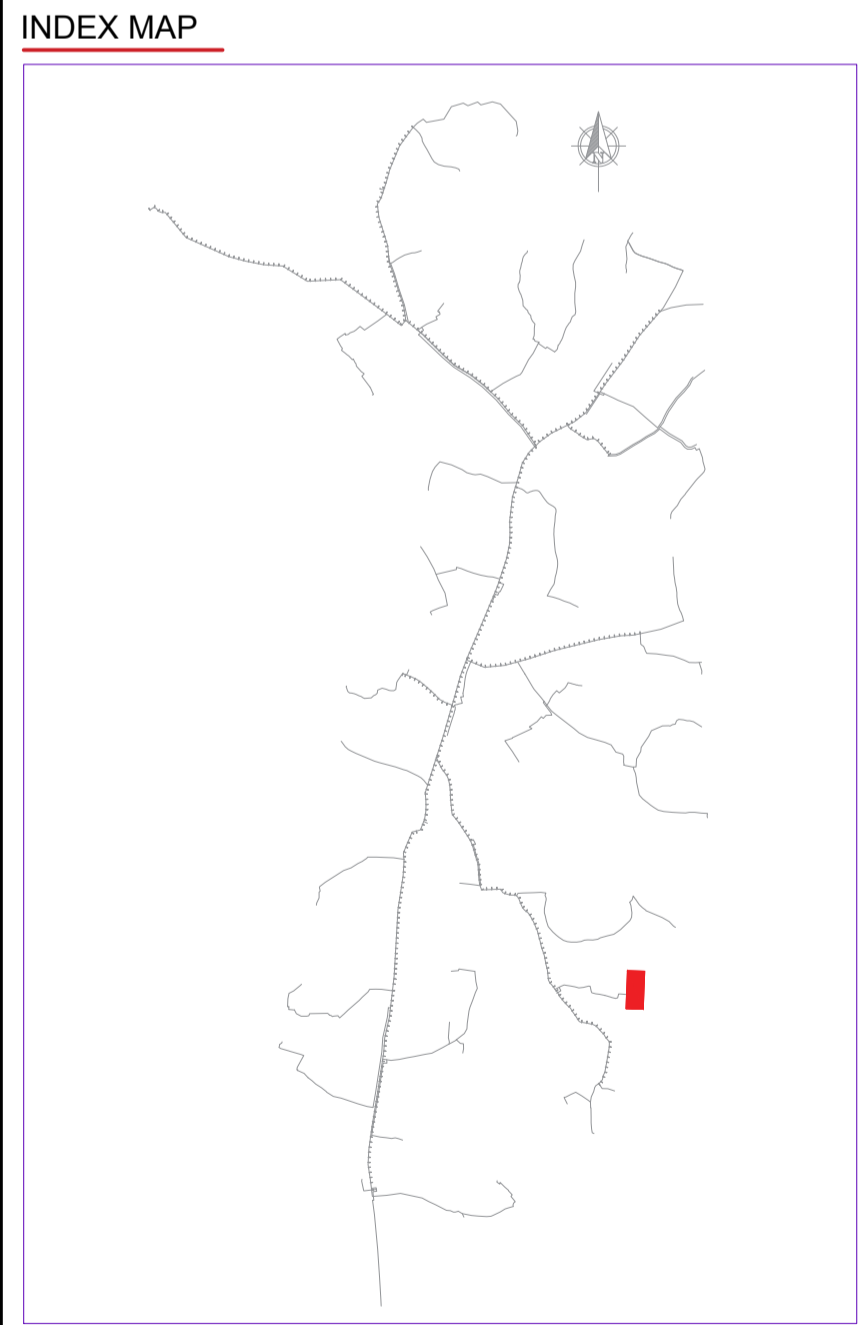
Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1S4T3**

Consultants: **aarvee associates**
an ISO 9001:2015 certified organization
 Ravula Residency, Shivraj Colony Main Rd., Hyderabad 50, India
 Tel: +91-40-33739333 Fax: +91-40-33739077
 e-mail: irrigation@aarvee.net web: www.aarvee.net



- LEGEND**
- GROUND LEVEL
 - PIPE TOP
 - PIPE BOTTOM
 - TRENCH BOTTOM
 - JUNCTION LOCATIONS
 - AIR VALVE On Profile View
 - AIR VALVE On Plan View
 - SCOUR VALVE On Profile View
 - SCOUR VALVE On Plan View
 - ISOLATION VALVE On Profile View
 - ISOLATION VALVE On Plan View
 - ANTI-SURGE VALVE On Profile View
 - ANTI-SURGE VALVE On Plan View
 - PIPE T-JUNCTION On Profile View
 - PIPE T-JUNCTION On Plan View
 - PIPE CROSS-JUNCTION On Profile View
 - PIPE CROSS-JUNCTION On Plan View
 - BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

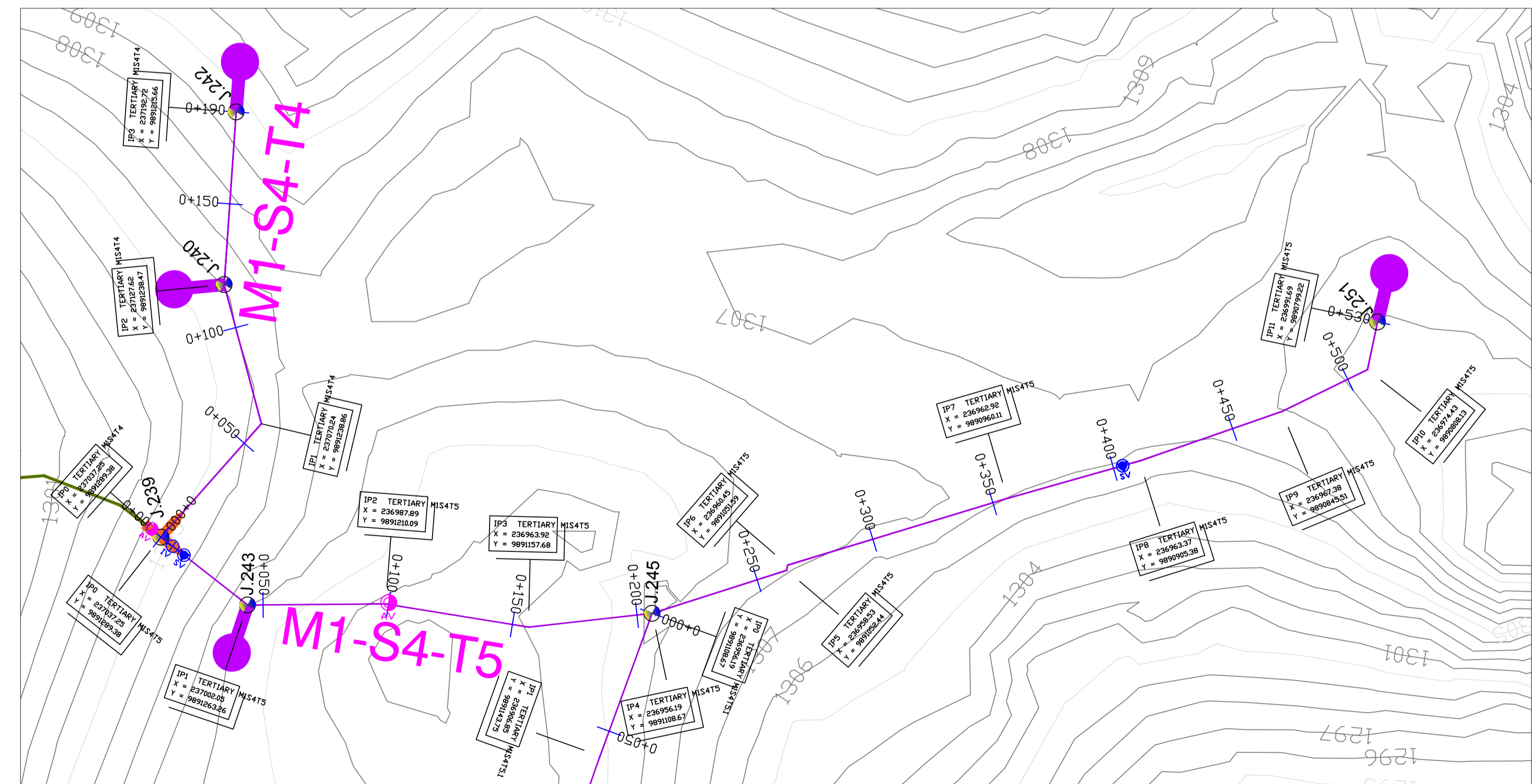
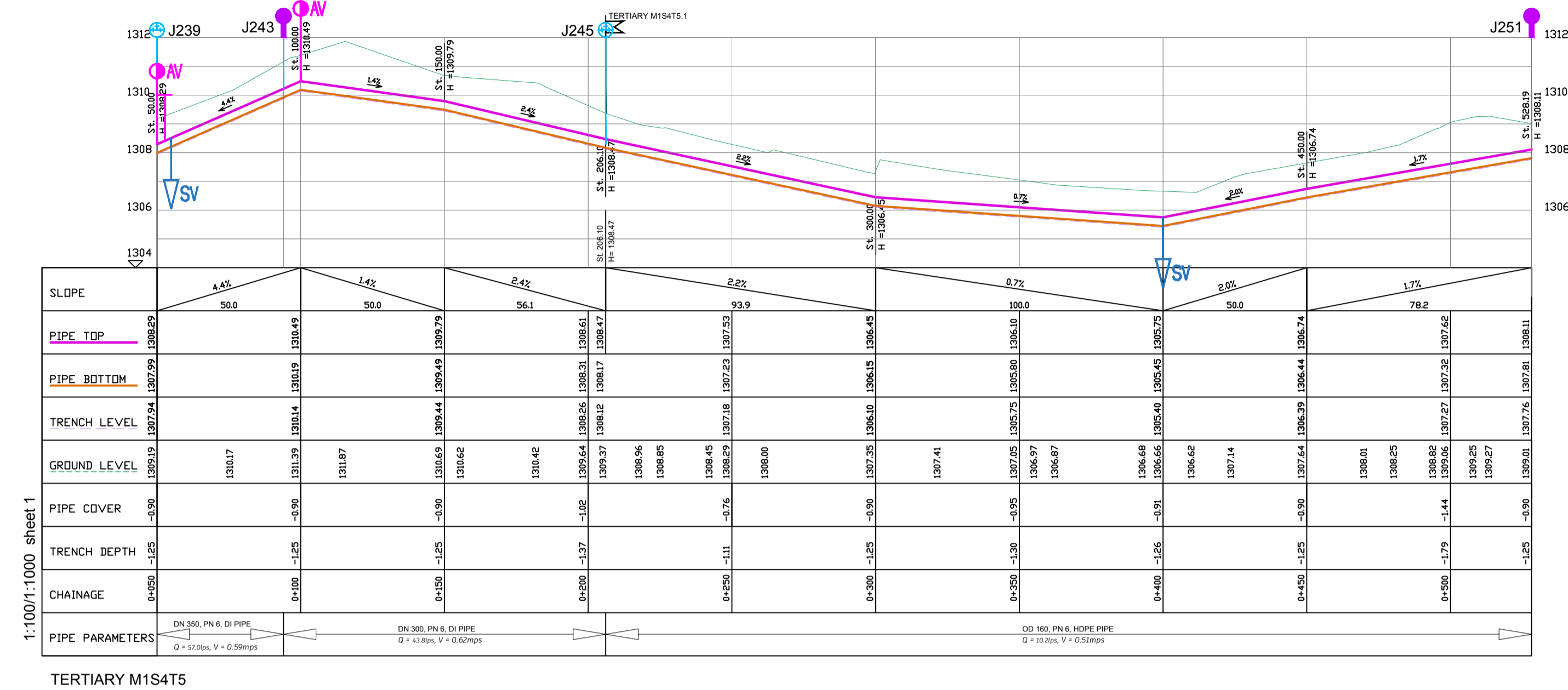
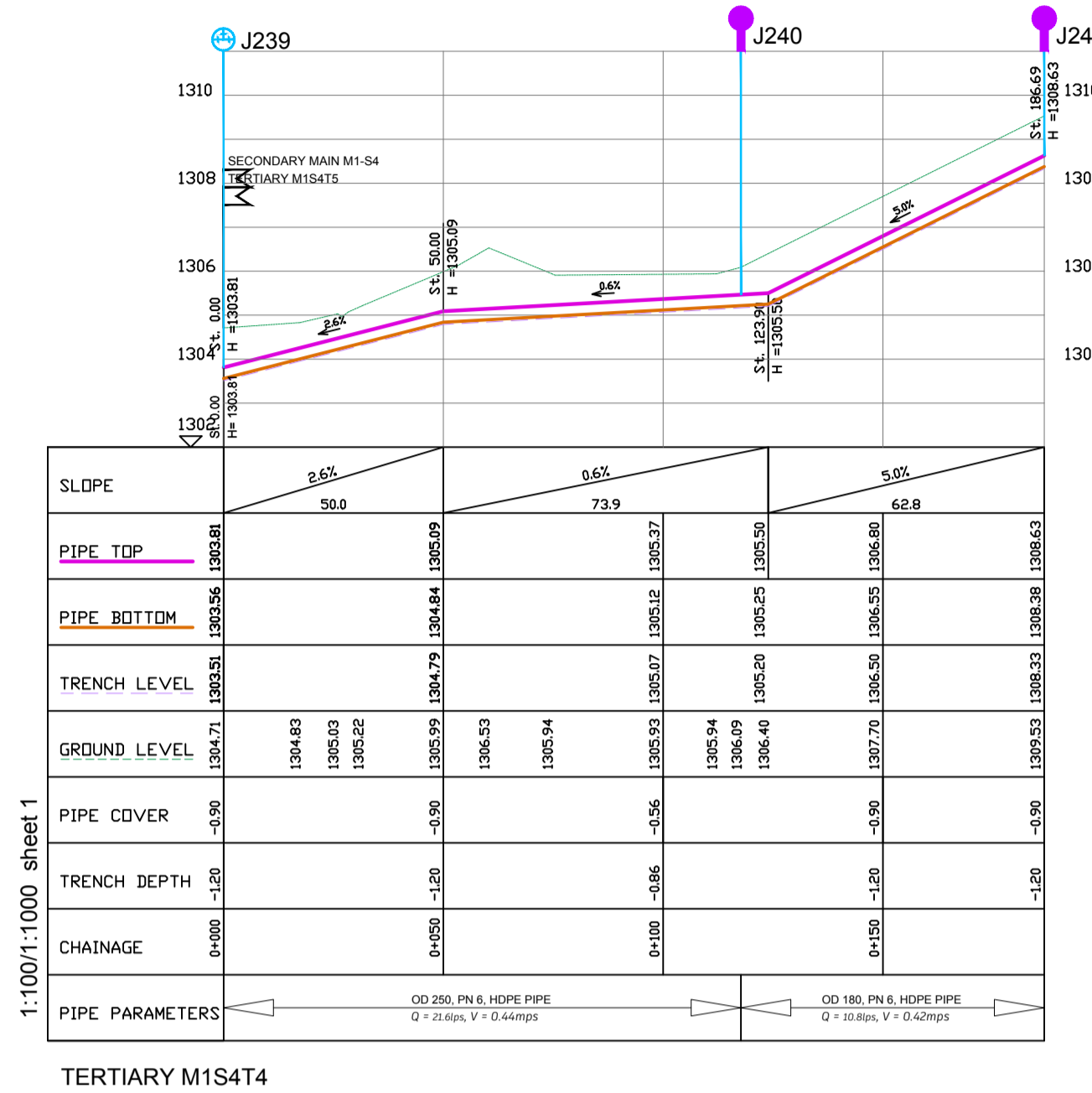
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE**
TERTIARY MAIN M1S4T3.1, M1S4T3.2, M1S4T3.3

Consultants: **arvee associates**
arvee associates consultants Pvt. Ltd.
Ravala Residency, Shiragar Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@arvee.net web: www.arvee.net

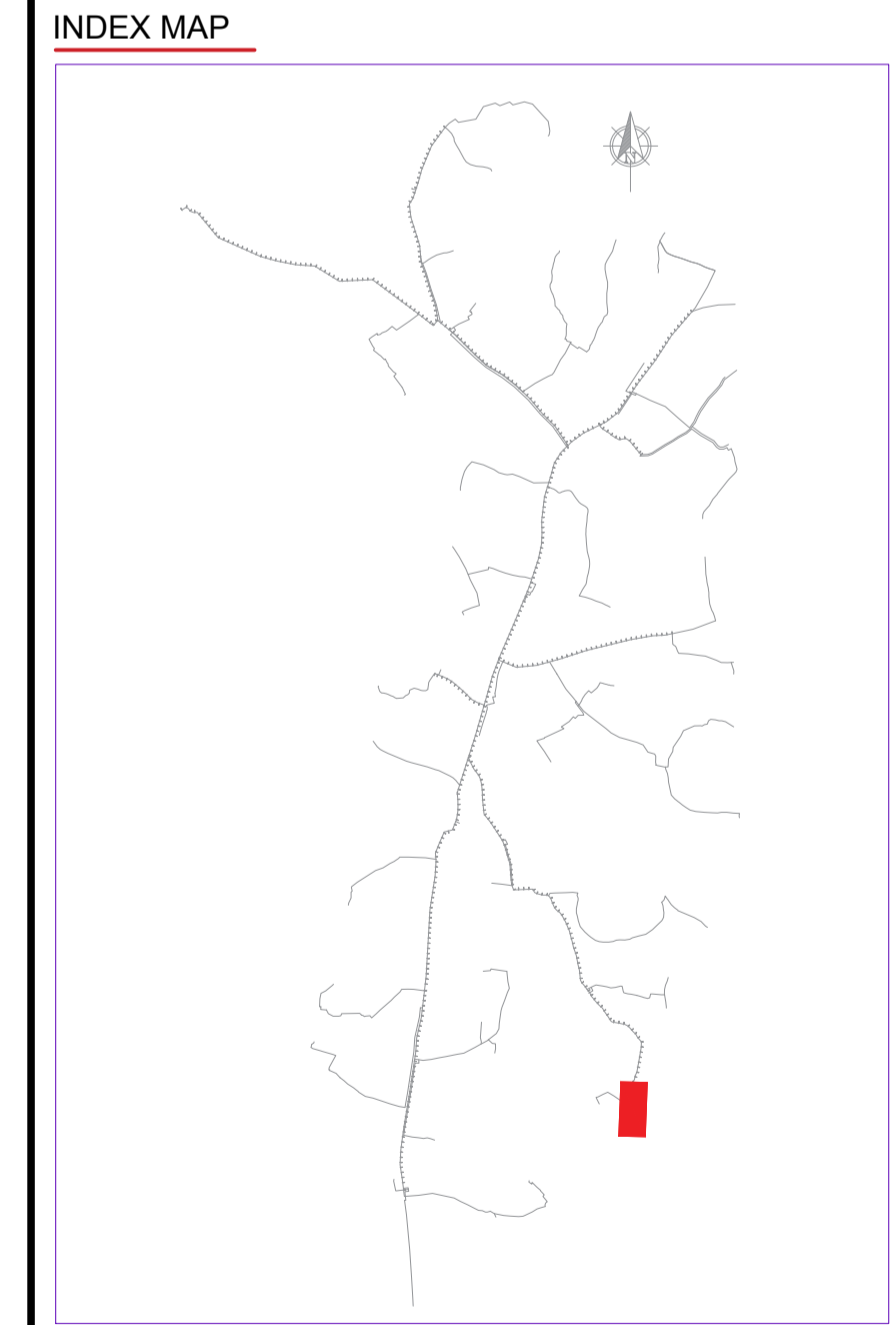
DRG. NO. MWE-KIS-NET-PP/M1S4T3-02 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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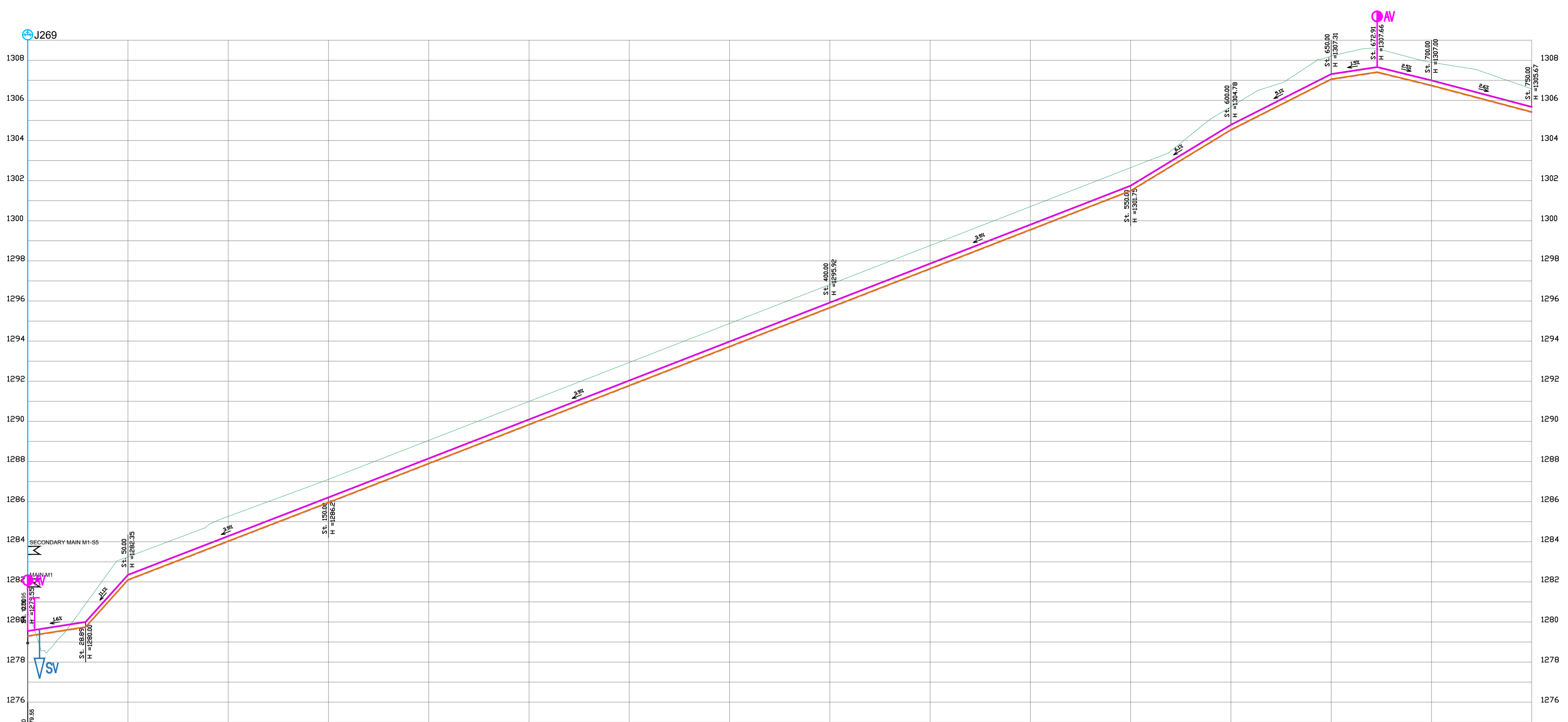
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

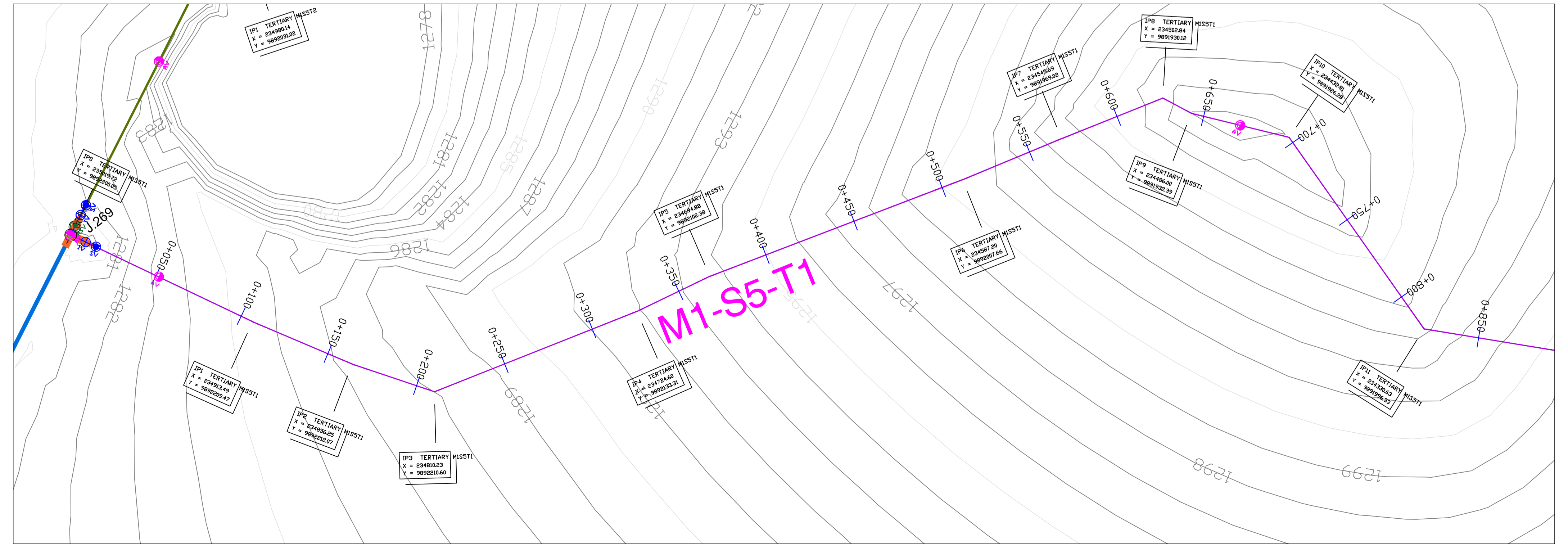
Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S4T4, M1S4T5**

Consultants: **arvee associates**
arvee associates consultants Pvt Ltd
Ravula Road, Shivajinagar Colony Main Rd., Hyderabad 50, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@arvee.net web: www.arvee.net



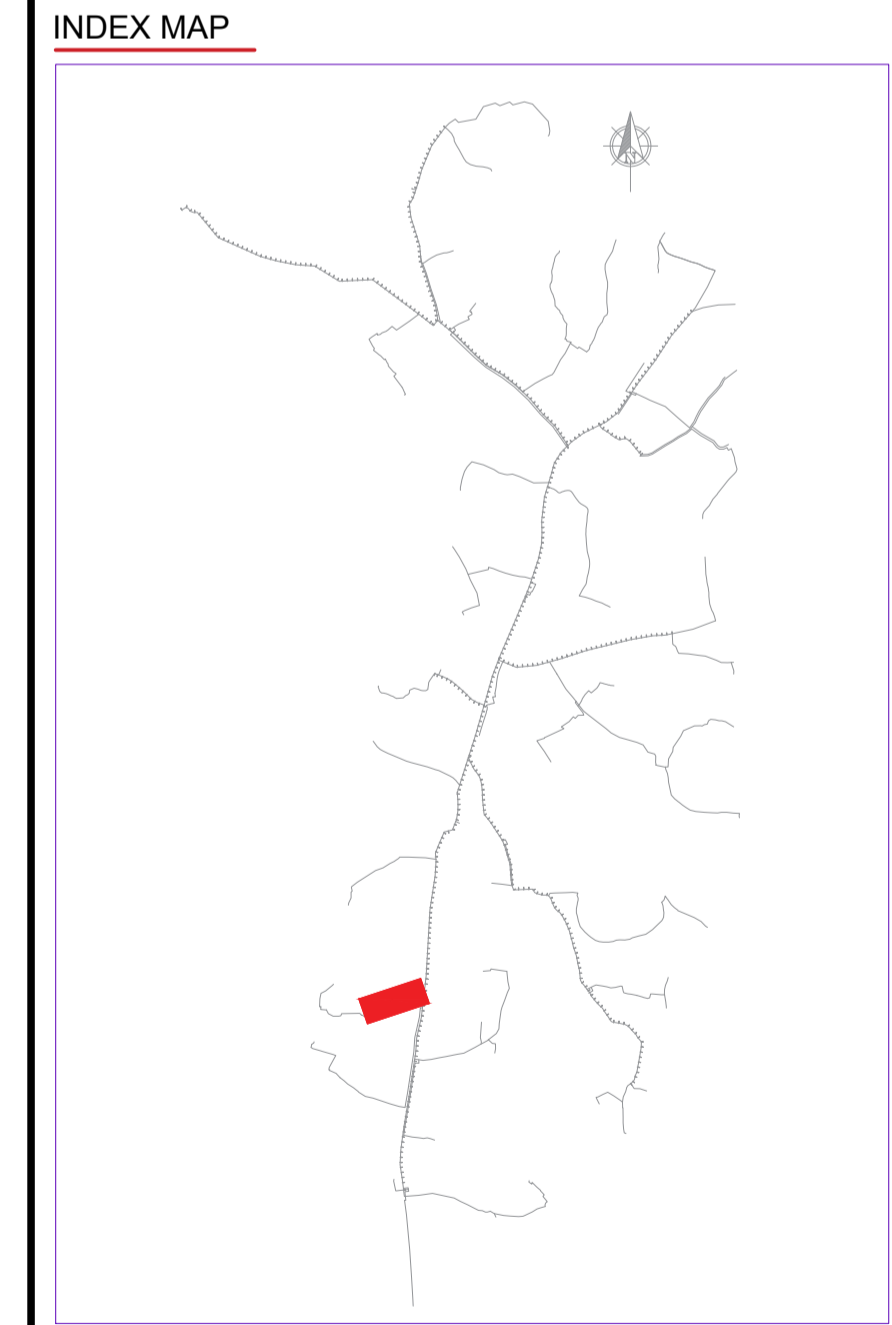
SLOPE	1.5%	1.1%	3.9%	3.9%	3.9%	6.1%	5.1%	1.0%	5.3%	2.6%
PIPE TOP	1279.35	1280.00	1284.25	1288.15	1292.05	1295.95	1300.85	1304.75	1308.65	1308.65
PIPE BOTTOM	1279.35	1279.35	1284.25	1288.15	1292.05	1295.95	1300.85	1304.75	1308.65	1308.65
TRENCH LEVEL	1279.35	1279.35	1284.25	1288.15	1292.05	1295.95	1300.85	1304.75	1308.65	1308.65
GROUND LEVEL	1279.35	1279.35	1284.25	1288.15	1292.05	1295.95	1300.85	1304.75	1308.65	1308.65
PIPE COVER	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
TRENCH DEPTH	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50
CHAINAGE	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+750	
PIPE PARAMETERS	OD 250, PN10, HDPE PIPE Q = 19.2lps, V = 0.39mps									

1:100/1:1000 sheet 1
TERTIARY M1S5T1



- LEGEND**
- GROUND LEVEL
 - PIPE TOP
 - PIPE BOTTOM
 - TRENCH BOTTOM
 - JUNCTION LOCATIONS
 - AIR VALVE On Profile View
 - AIR VALVE On Plan View
 - SCOUR VALVE On Profile View
 - SCOUR VALVE On Plan View
 - ISOLATION VALVE On Profile View
 - ISOLATION VALVE On Plan View
 - ANTI-SURGE VALVE On Profile View
 - ANTI-SURGE VALVE On Plan View
 - PIPE T-JUNCTION On Profile View
 - PIPE CROSS-JUNCTION On Profile View
 - BLOCK HYDRANT

- NOTES**
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Scale: Horizontal 1: 1000, Vertical 1: 100

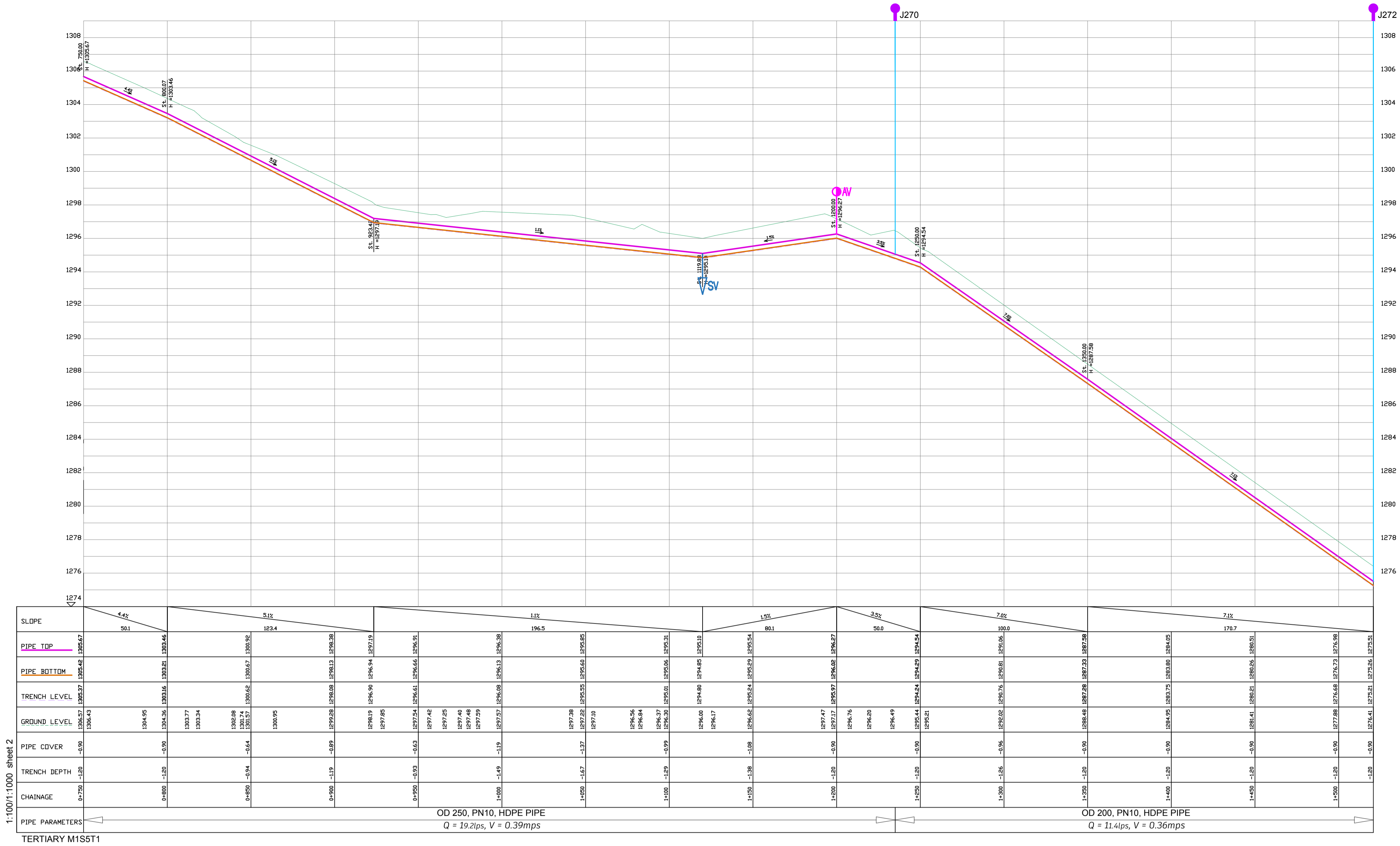
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S5T1**

Consultants: **aarvee associates**
aarvee associates consultants Pvt.Ltd. S. Ravula Residency, Shivraj Colony Main Rd., Hyderabad 50, India
Tel: +91-40-3373933 Fax: +91-402279077
e-mail: irrigation@aarvee.net web: www.aarvee.net

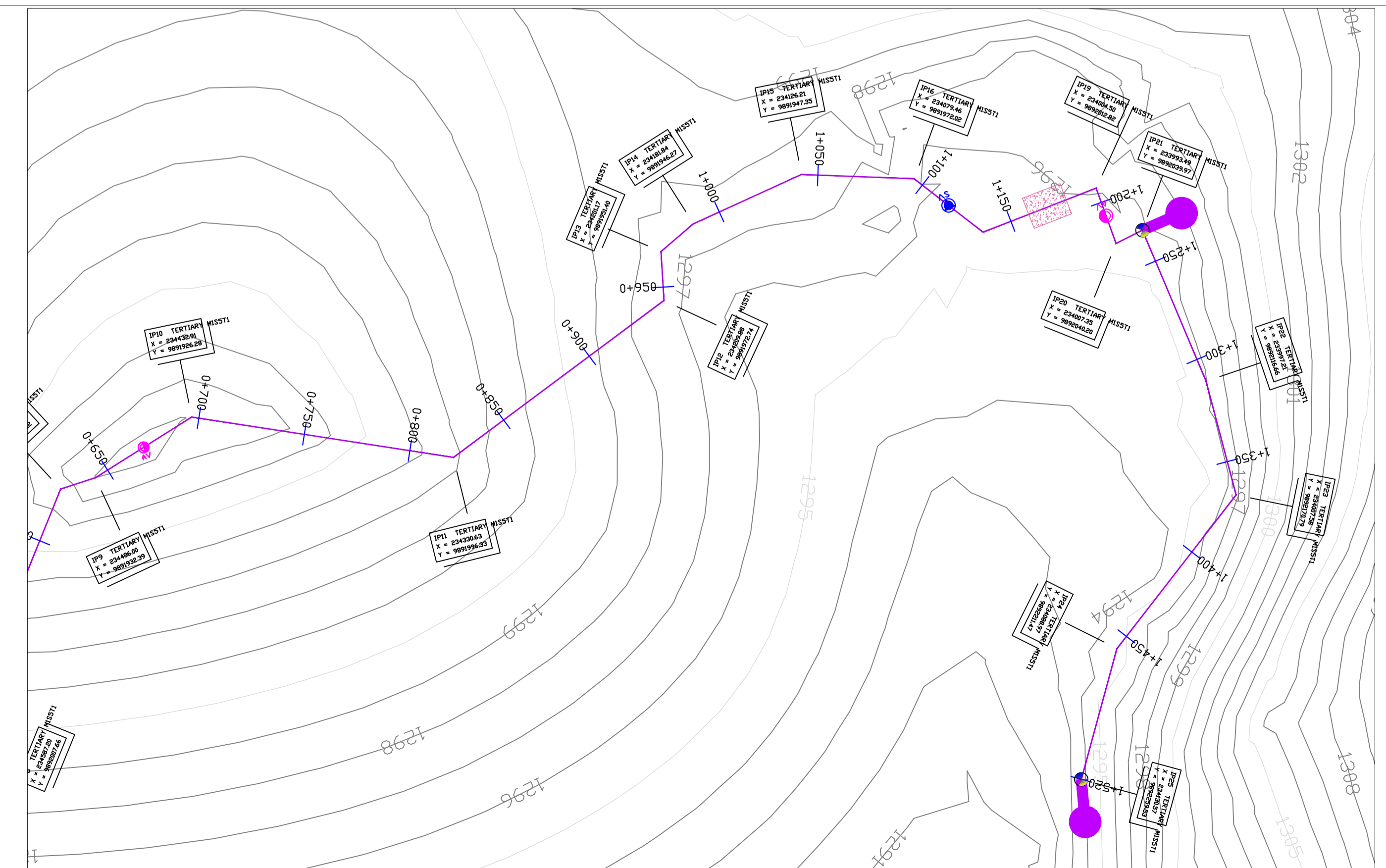
DRG. NO/MWE-KIS-NET-PP/M1S5T1-01 Date APR 2022



PIPE TYPE	Q	V
OD 250, PN10, HDPE PIPE	19.2 lps	0.39 mps
OD 200, PN10, HDPE PIPE	11.4 lps	0.36 mps

1:100/1:1000 sheet 2

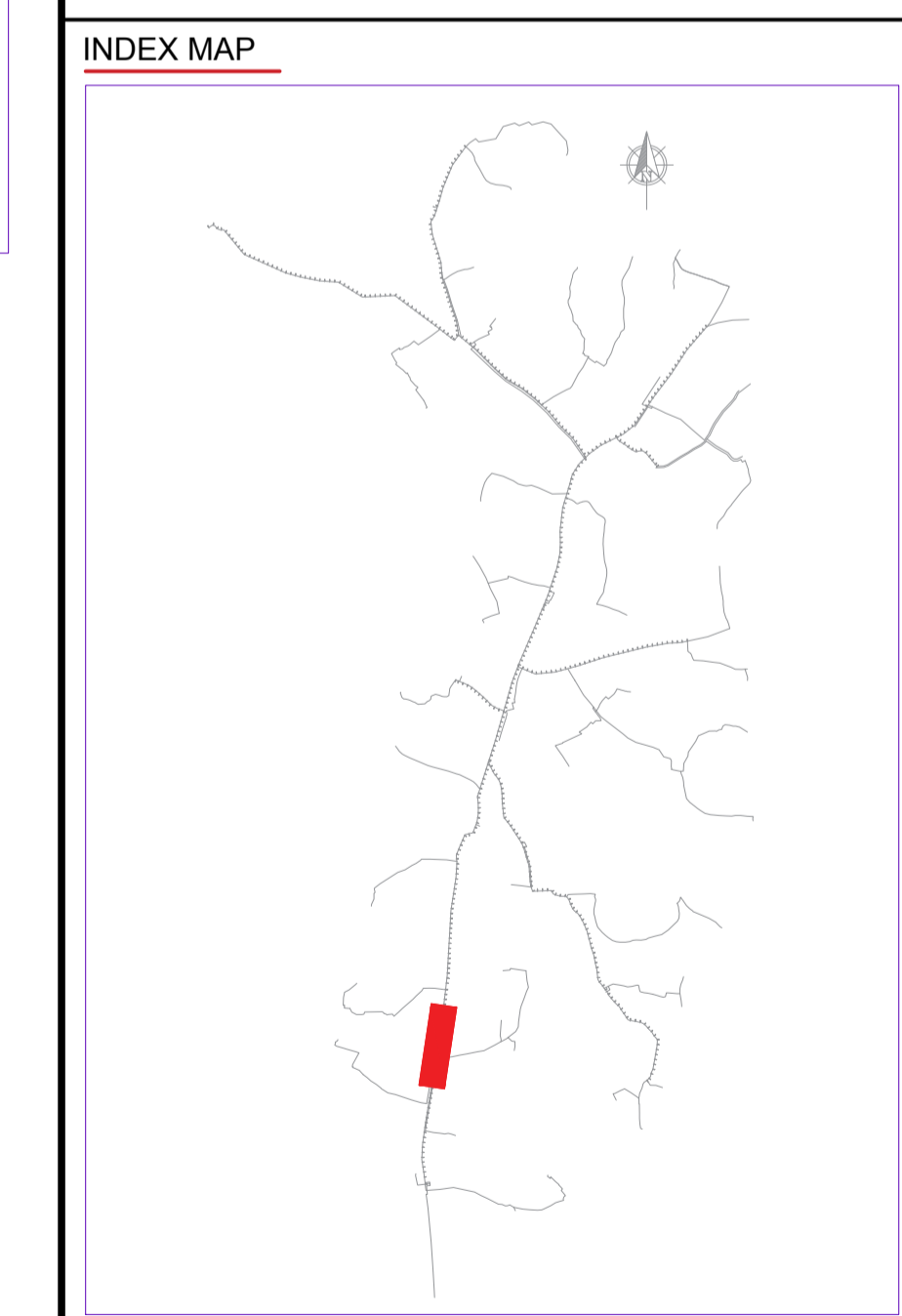
TERTIARY M1SST1



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE (AV) On Profile View / On Plan View
- SCOUR VALVE (SV) On Profile View / On Plan View
- ISOLATION VALVE (IV) On Profile View / On Plan View
- ANTI-SURGE VALVE (ASV) On Profile View / On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Scale: Horizontal 1 : 1000, Vertical 1 : 100

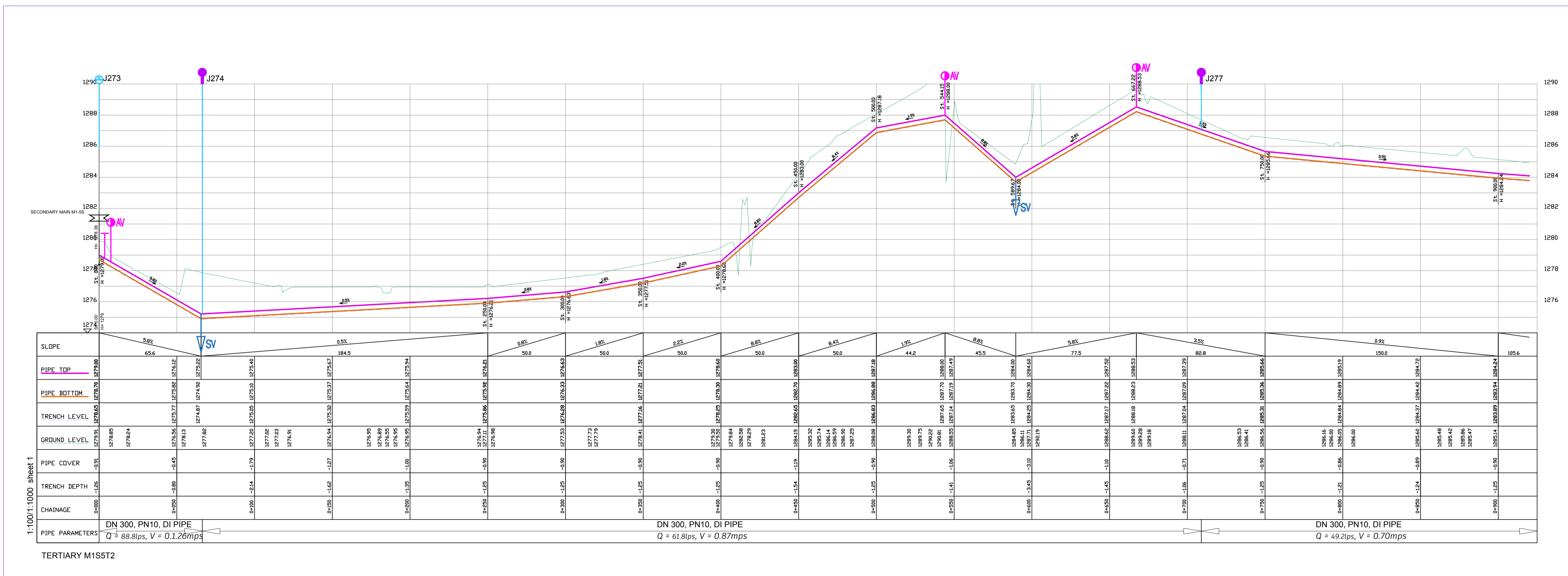
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1SST1**

Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd. S. Ravula Residency, Shivraj Colony Main Rd., Hyderabad 50, India
Tel: +91-40-33739333 Fax: +91-40-33739377
e-mail: irrigation@aarvee.net, web: www.aarvee.net

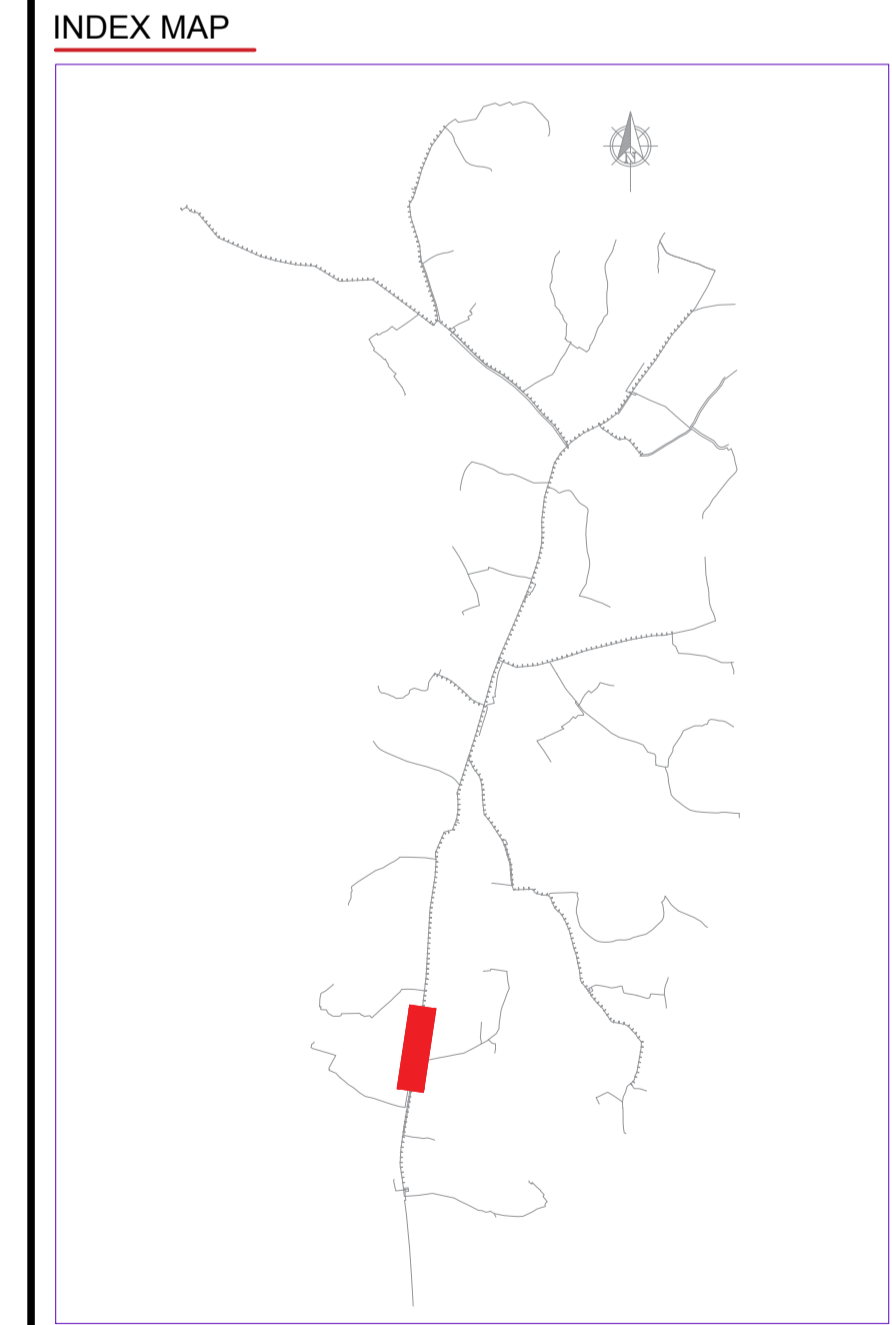
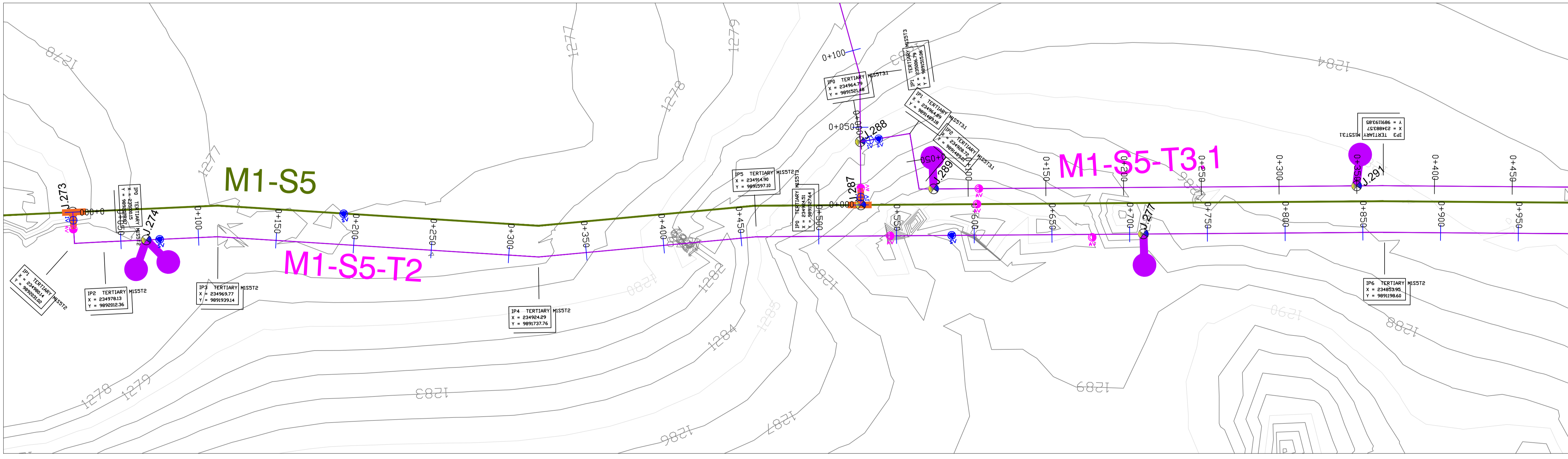
DRG. NO/MWE-KIS-NET-PP/M1SST1-02 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
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- PIPE CROSS-JUNCTION On Profile View
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

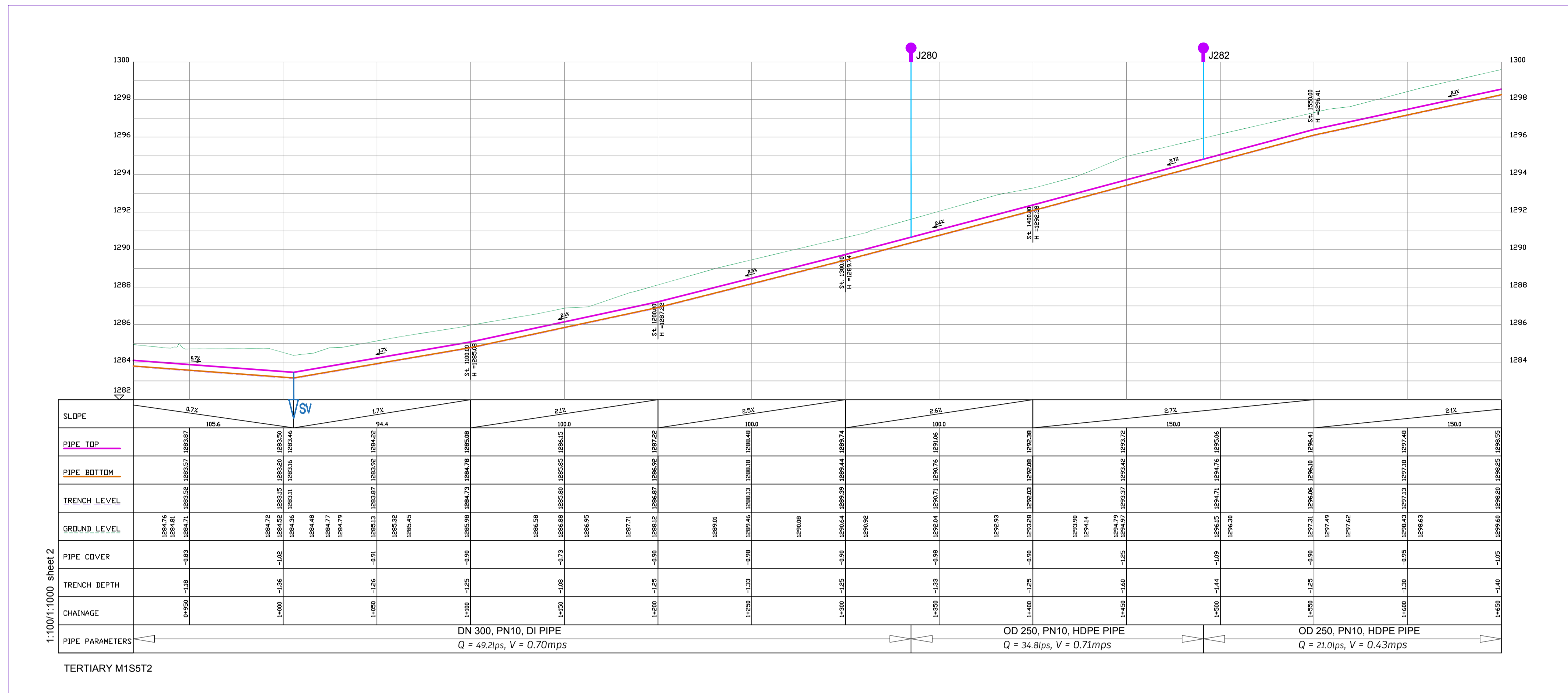
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S5T2**

Consultants: **aarvee associates**
aarchitects-engineers-consultants-pvt-ltd-6
Ravala Residency, Shivraj Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net web: www.aarvee.net

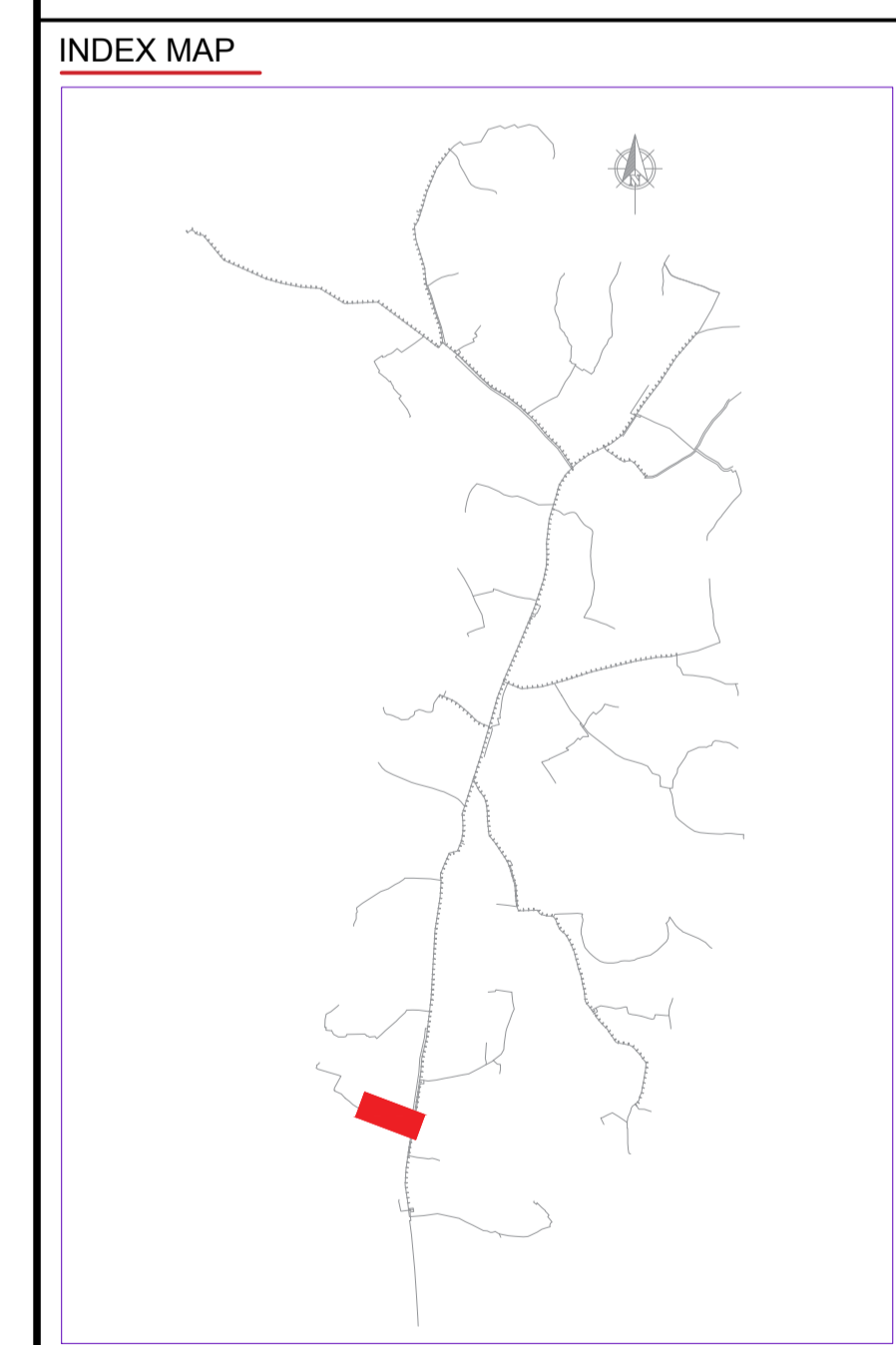
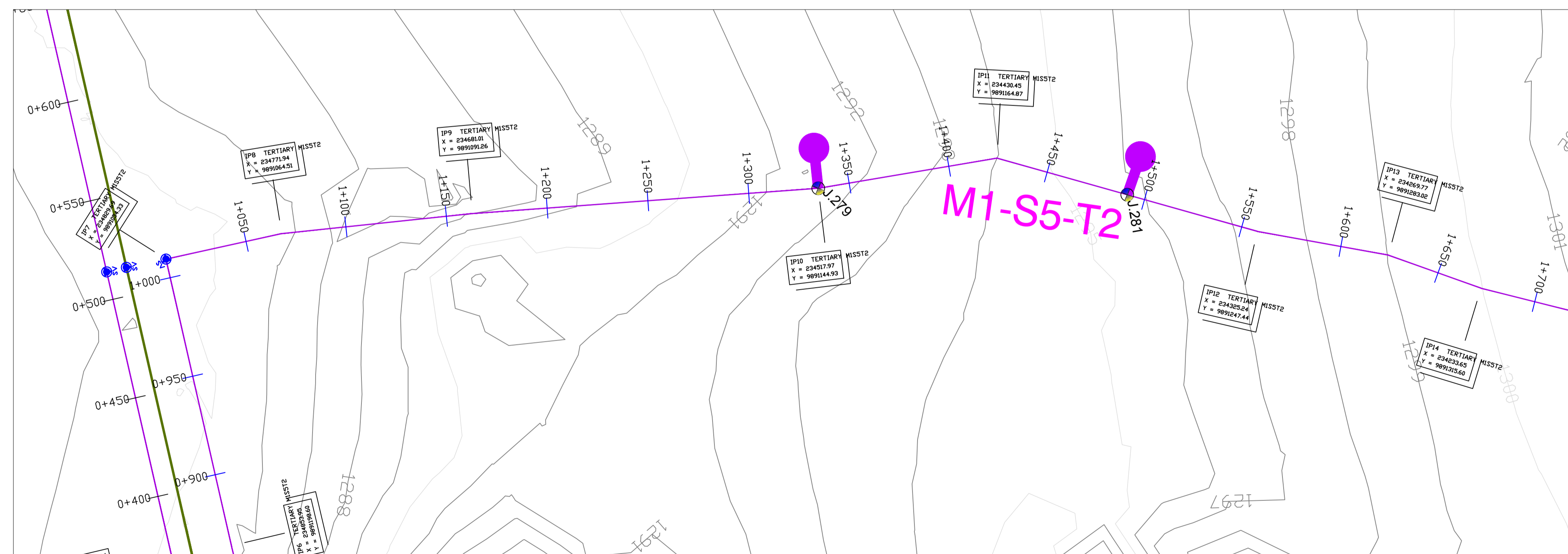
DRG. NO./MWE-KIS-NET-PP/M1S5T2-01 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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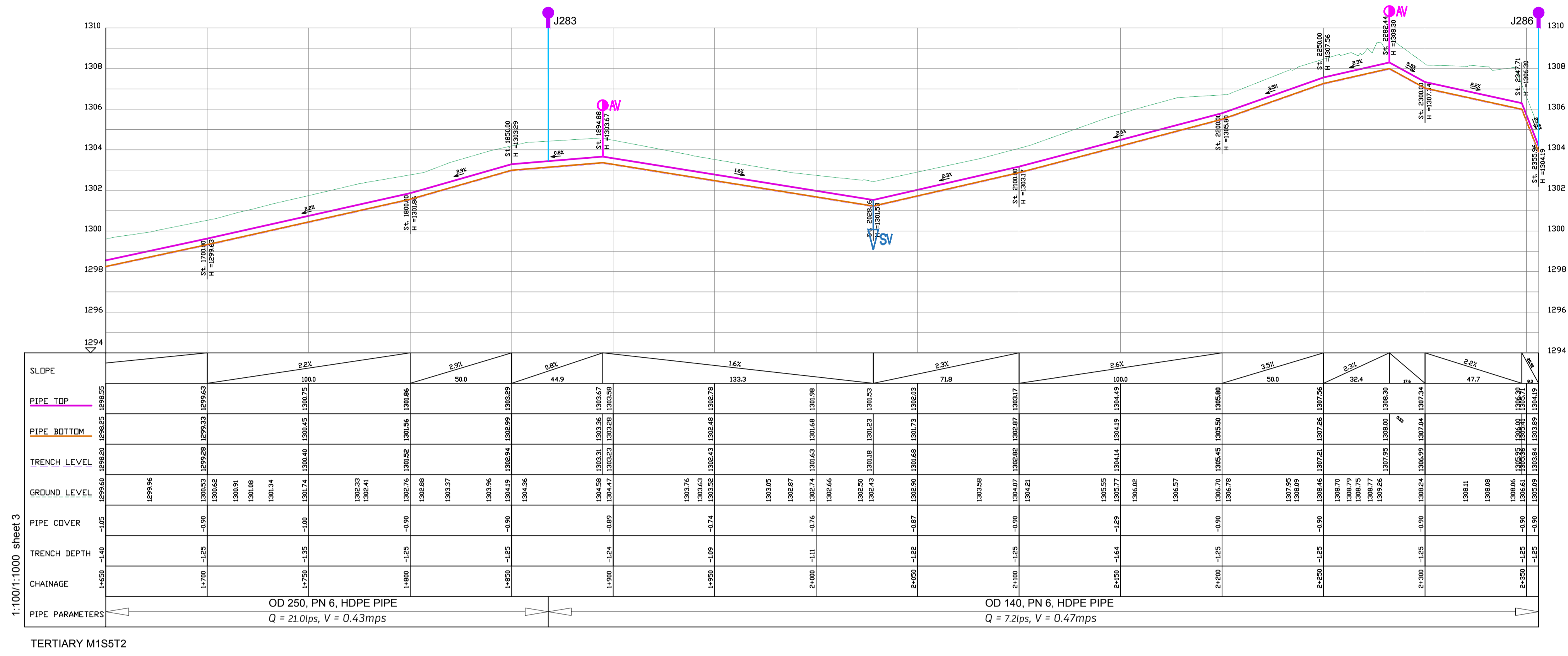
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAIN M1S5T2**

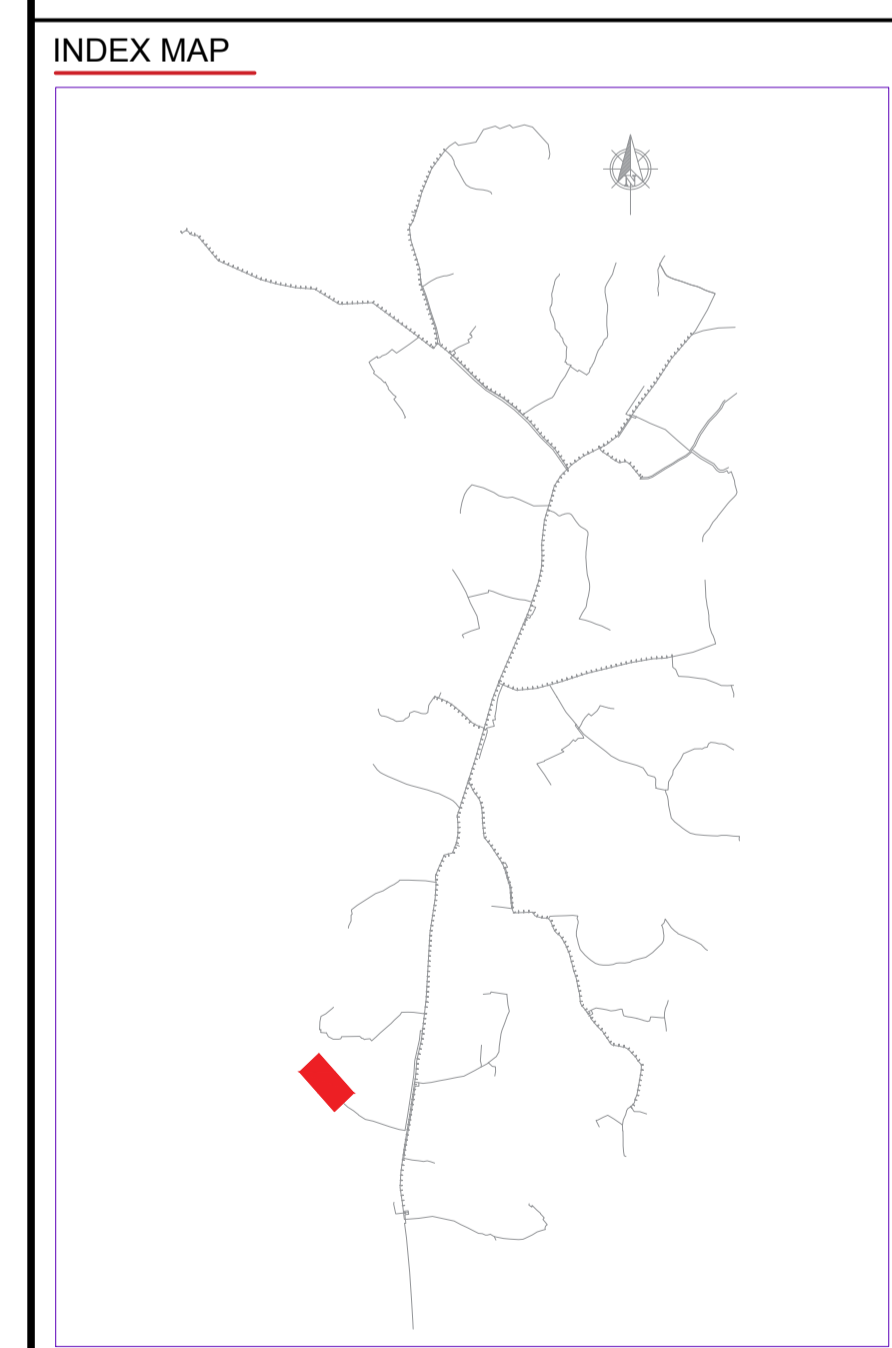
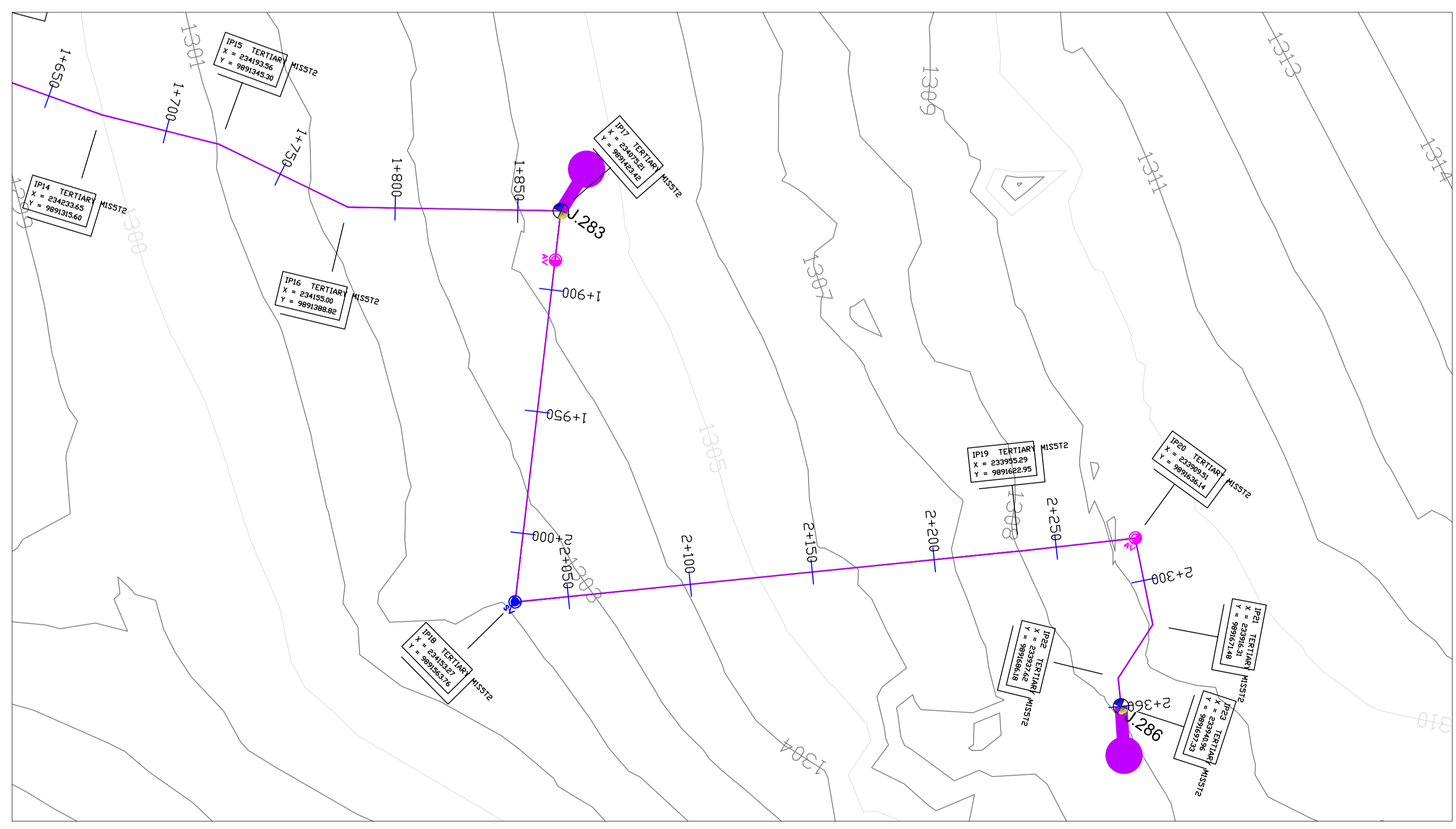
Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd.
Ravala Residency, Shreegar Colony Main Rd., Hyderabad 62, India
Tel: +91-40-3373933 Fax: +91-40-3373977
e-mail: irrigation@aarvee.net web: www.aarvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE (On Profile View / On Plan View)
- SCOUR VALVE (On Profile View / On Plan View)
- ISOLATION VALVE (On Profile View / On Plan View)
- ANTI-SURGE VALVE (On Profile View / On Plan View)
- PIPE T-JUNCTION (On Profile View)
- PIPE CROSS-JUNCTION (On Profile View)
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 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
 - REFER TO AUXILIARY WORKS DRAWINGS FOR ANCHORAGE TO PIPELINES, AIR VALVES DETAILS, PIPE PEDESTALS, PULLEY SUPPORT, TRENCH DETAILS, VALVE CHAMBERS, WASHOUT CHAMBERS AND WATER METERS.
 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



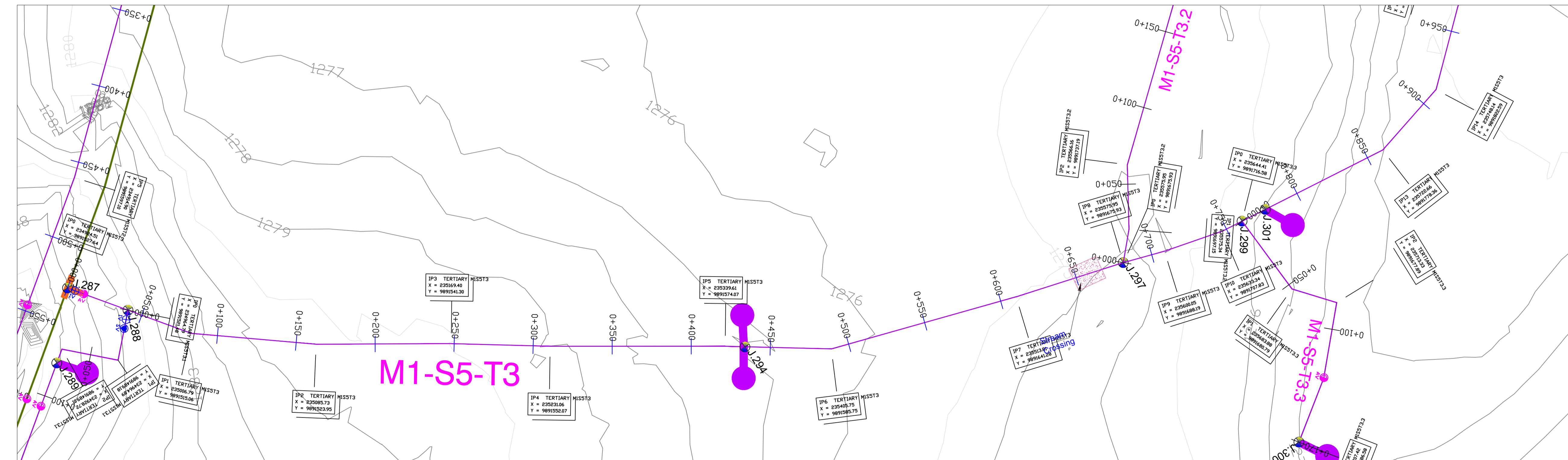
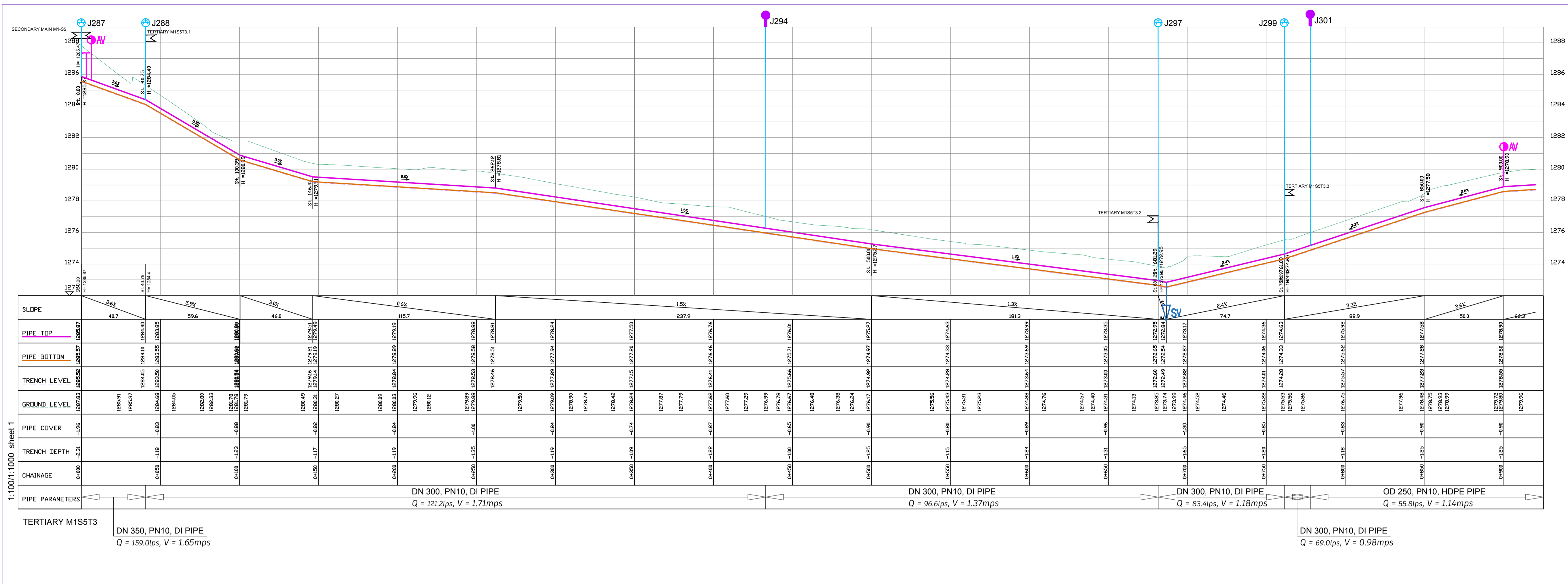
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Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S2**

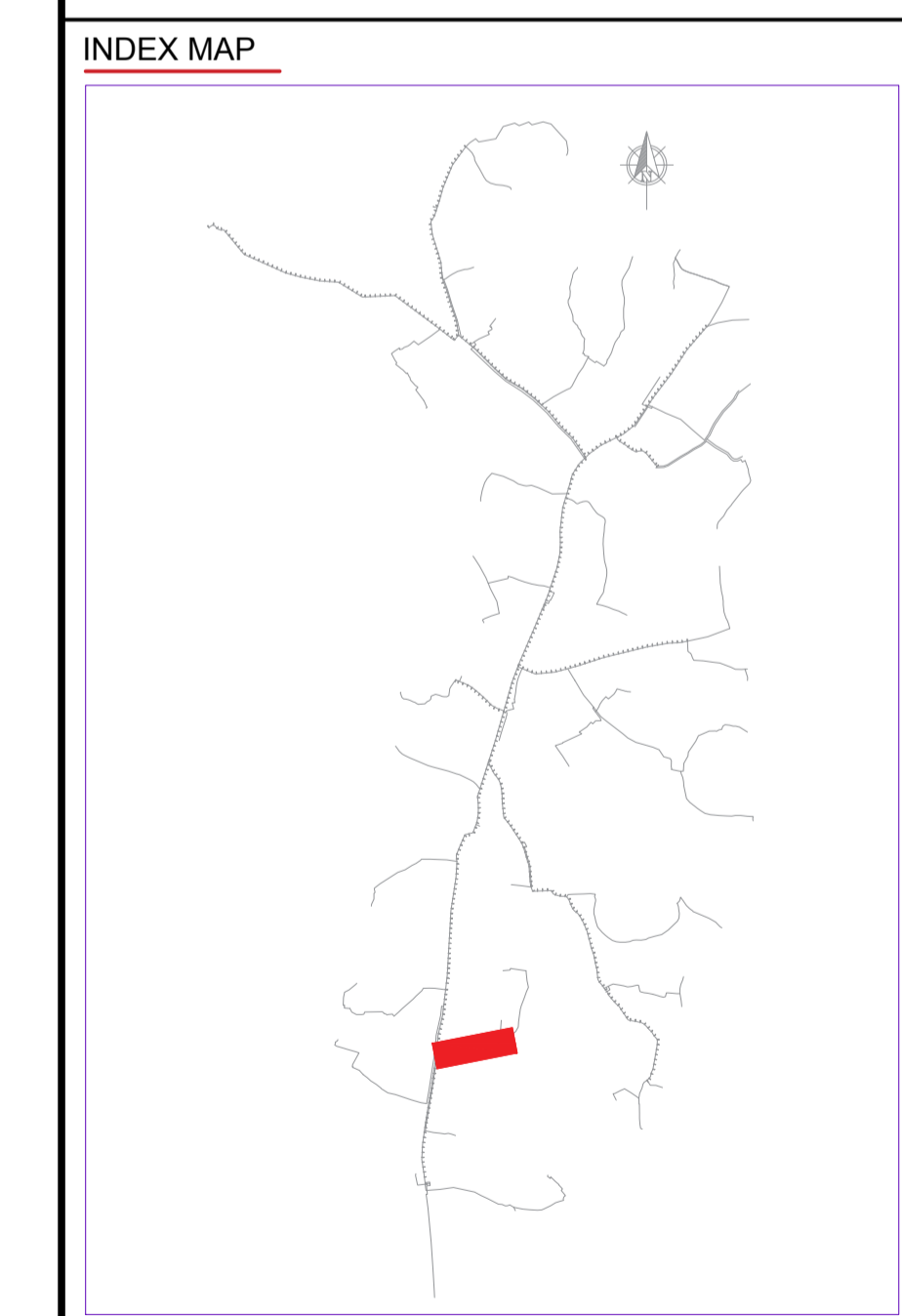
Consultants: **aarvee associates**
aarchitects engineers consultants Pvt.Ltd. S.
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33739333 Fax: +91-402279077
e-mail: irrigation@aarvee.net web: www.aarvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



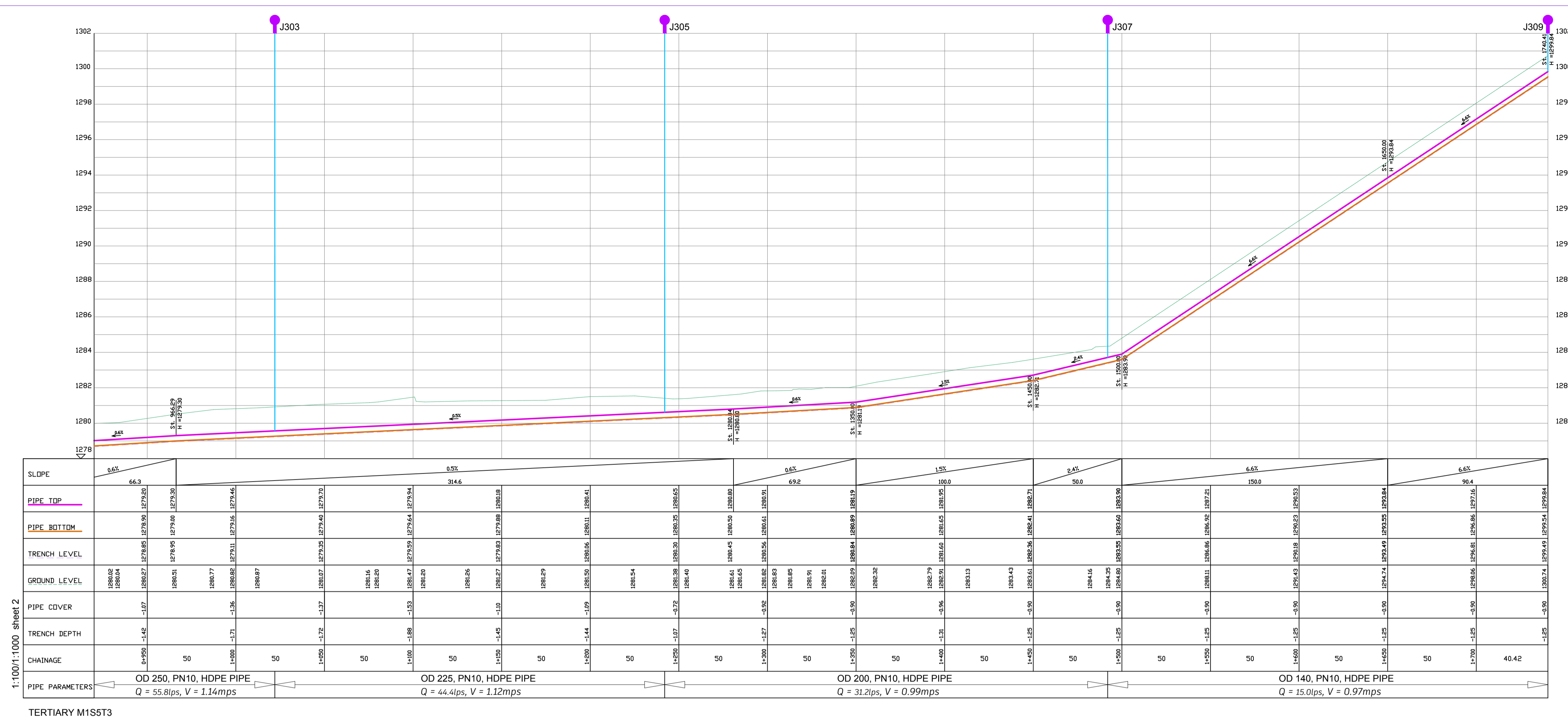
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S5T3**

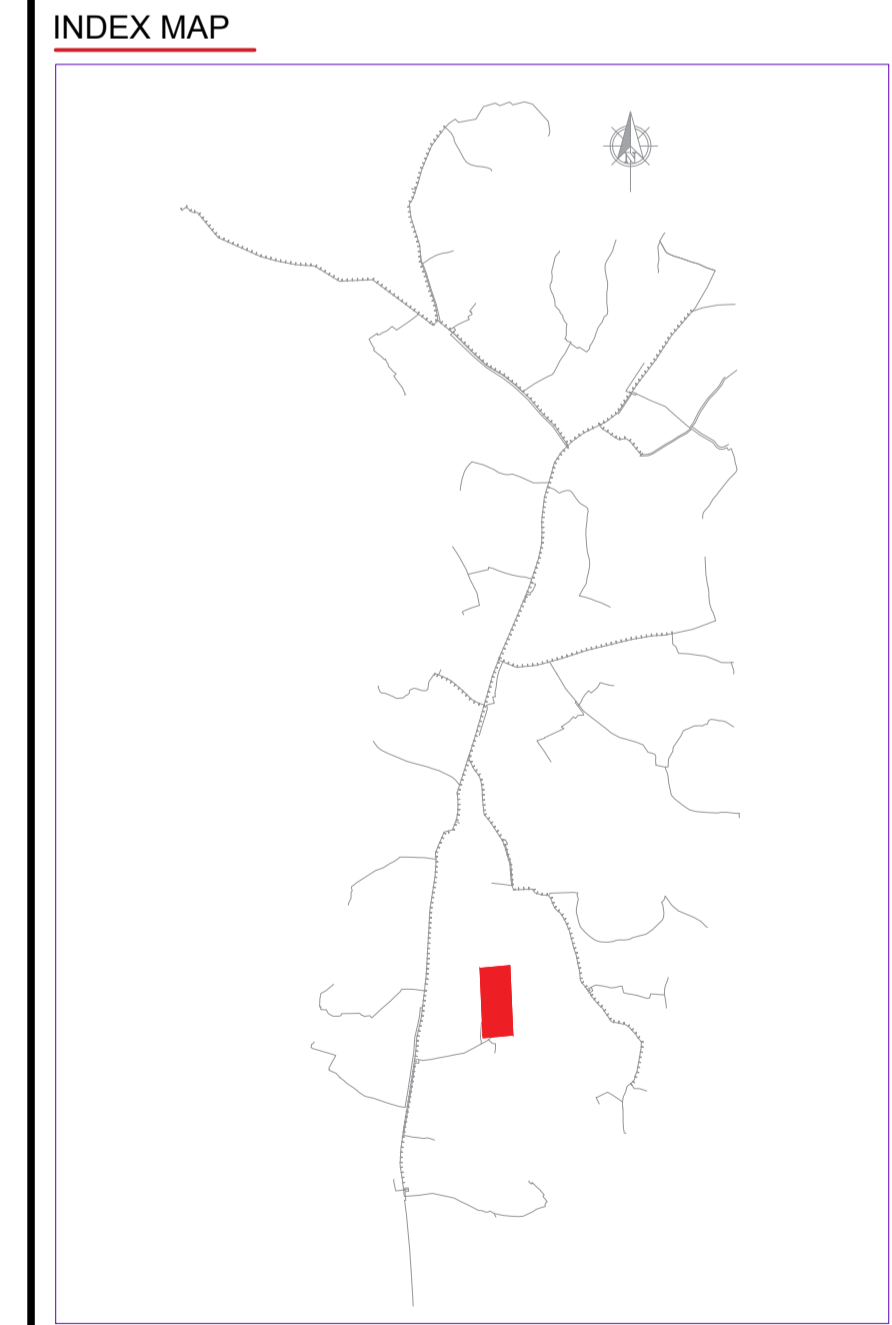
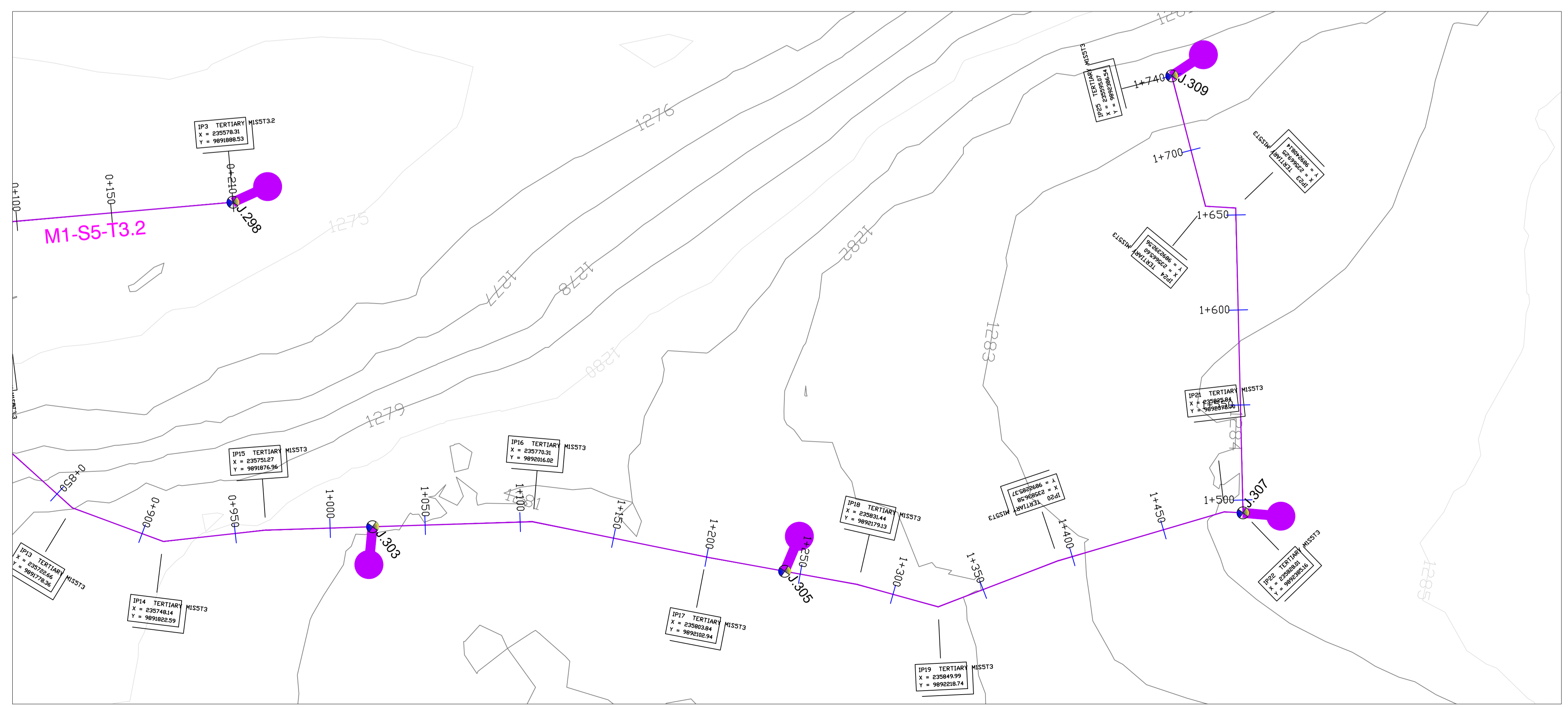
Consultants: **aarvee associates**
aarvee associates
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net web: www.aarvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- ⊗ JUNCTION LOCATIONS
- AV AIR VALVE On Profile View
- AV AIR VALVE On Plan View
- SV SCOUR VALVE On Profile View
- SV SCOUR VALVE On Plan View
- IV ISOLATION VALVE On Profile View
- IV ISOLATION VALVE On Plan View
- ASV ANTI-SURGE VALVE On Profile View
- ASV ANTI-SURGE VALVE On Plan View
- ⊕ PIPE T-JUNCTION On Profile View
- ⊕ PIPE CROSS-JUNCTION On Profile View
- ⊙ BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
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 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

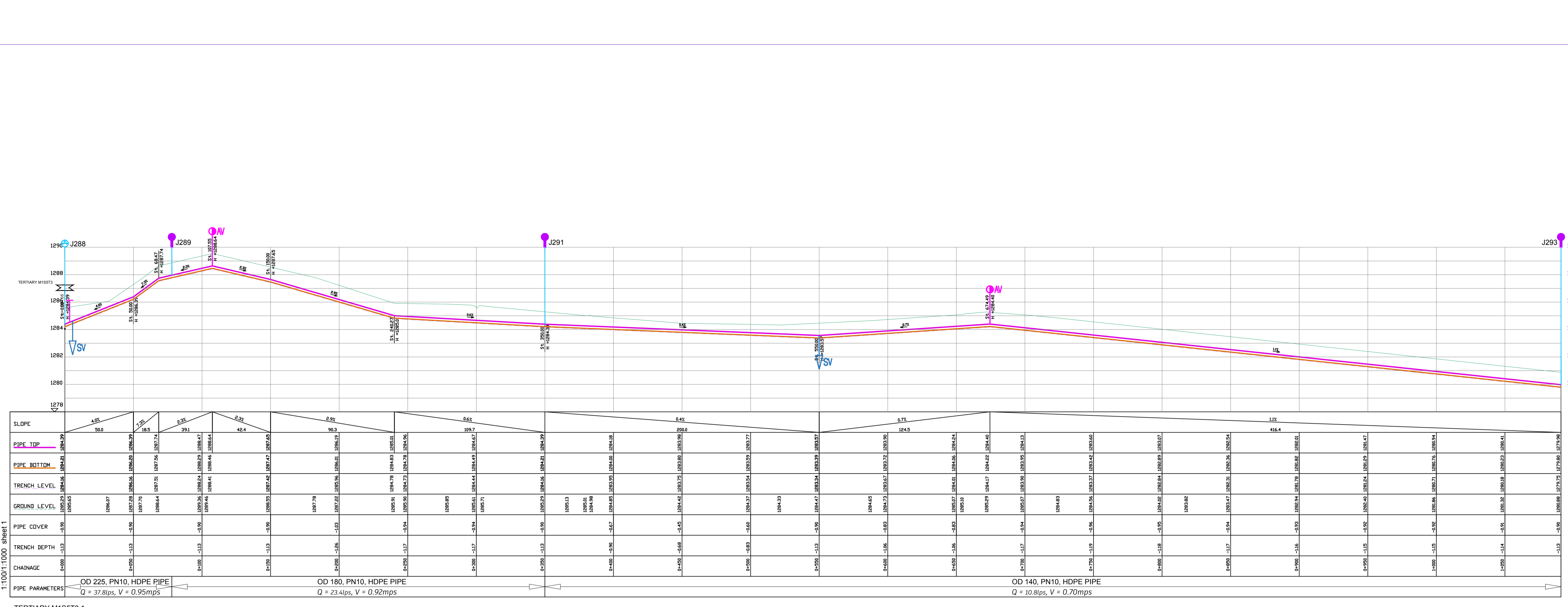
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S5T3**

Consultants: **arvee associates**
arvee associates consultants pvt ltd
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33737633 Fax: +91-40-3373677
e-mail: irrigation@arvee.net web: www.arvee.net

DRG. NO/MWE-KIS-NET-PP/M1S5T3-02 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR

1:100/1:1000 sheet 1

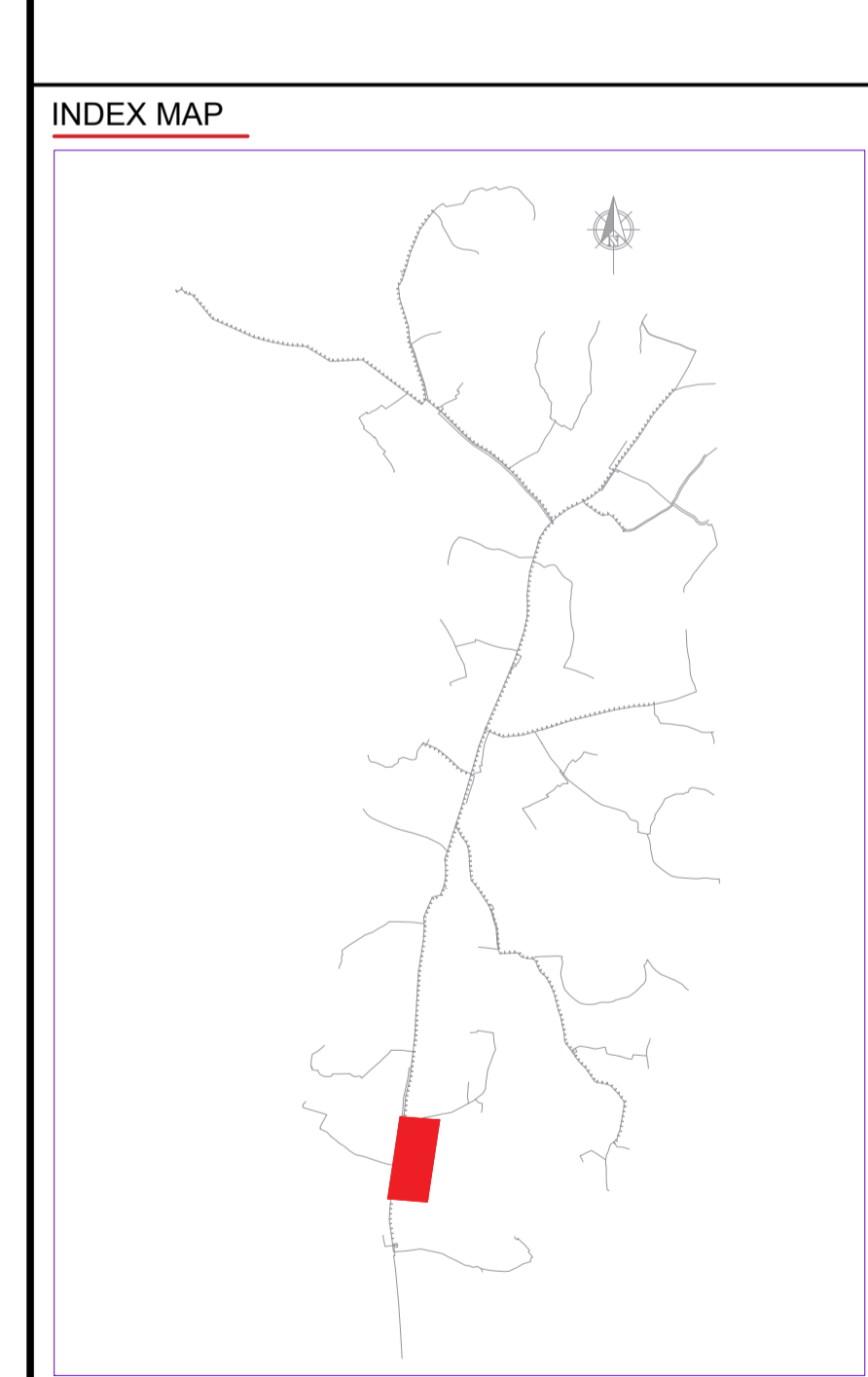
TERTIARY M1S5T3.1

PIPE PARAMETERS

OD 225, PN10, HDPE PIPE
Q = 37.8lps, V = 0.95mps

OD 180, PN10, HDPE PIPE
Q = 23.4lps, V = 0.92mps

OD 140, PN10, HDPE PIPE
Q = 10.8lps, V = 0.70mps



Scale: Horizontal 1: 1000, Vertical 1: 100

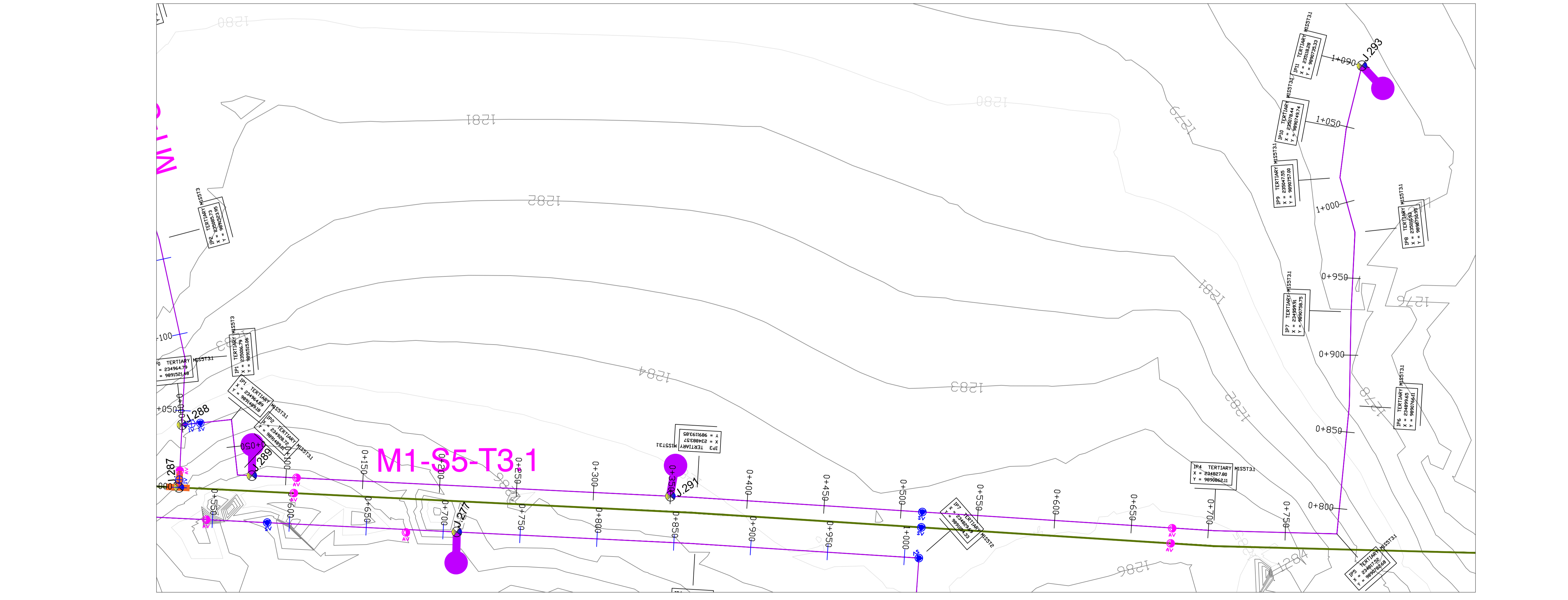
Client: REPUBLIC OF UGANDA, MINISTRY OF WATER AND ENVIRONMENT

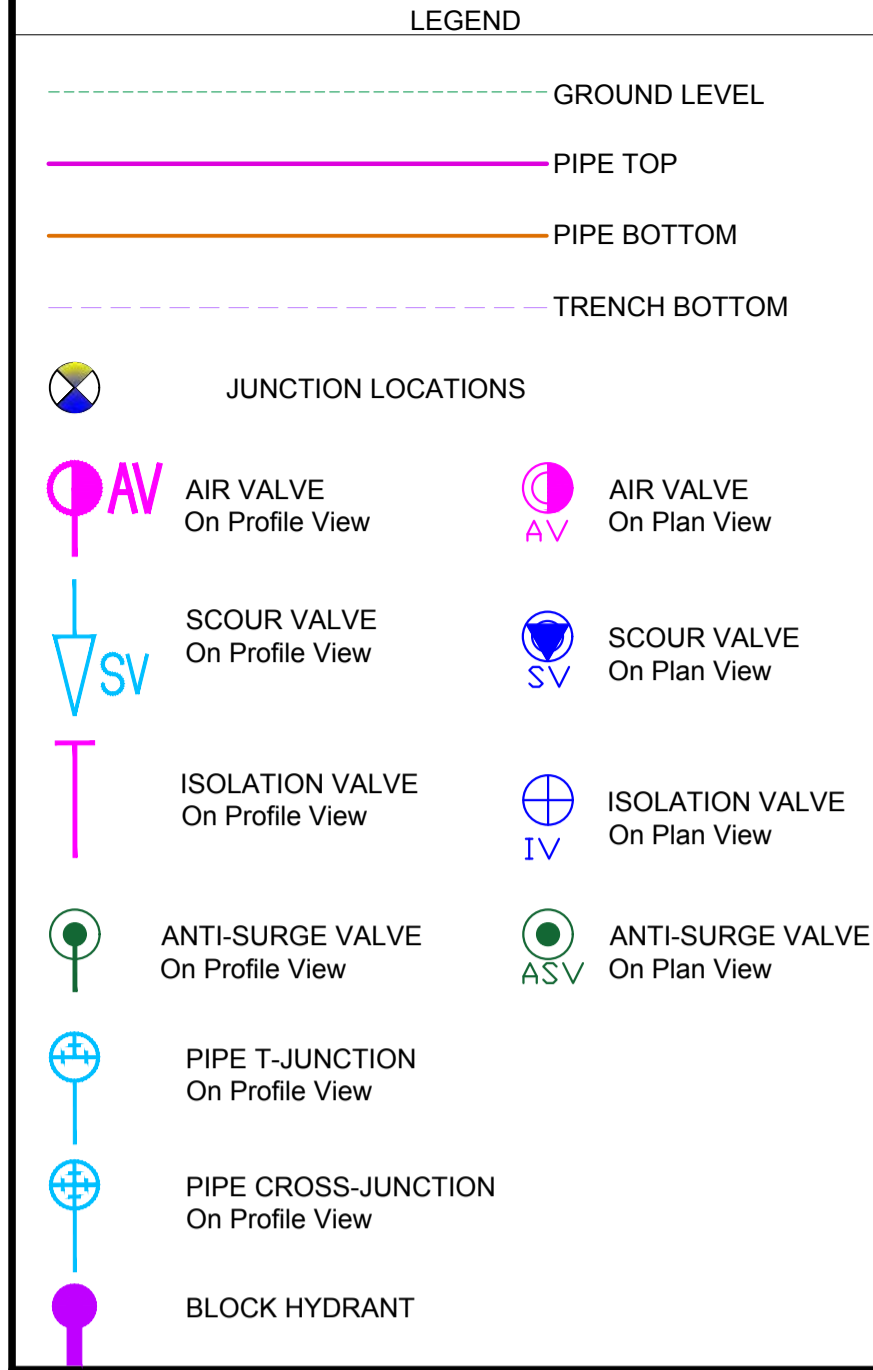
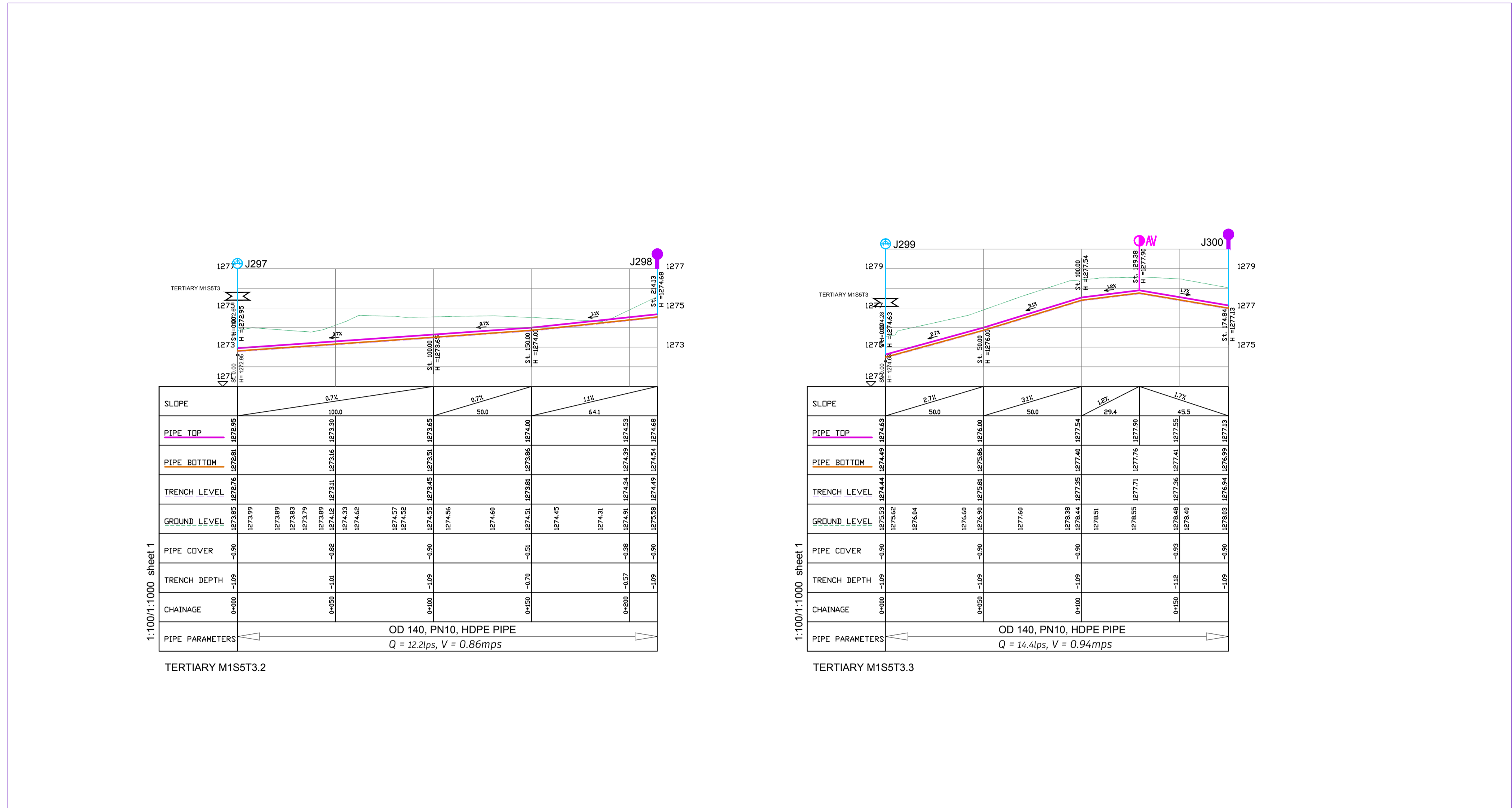
Project: KABUYANDA IRRIGATION SCHEME

Title: PLAN PROFILE OF PIPE LINE TERTIARY MAIN M1S5T3.1

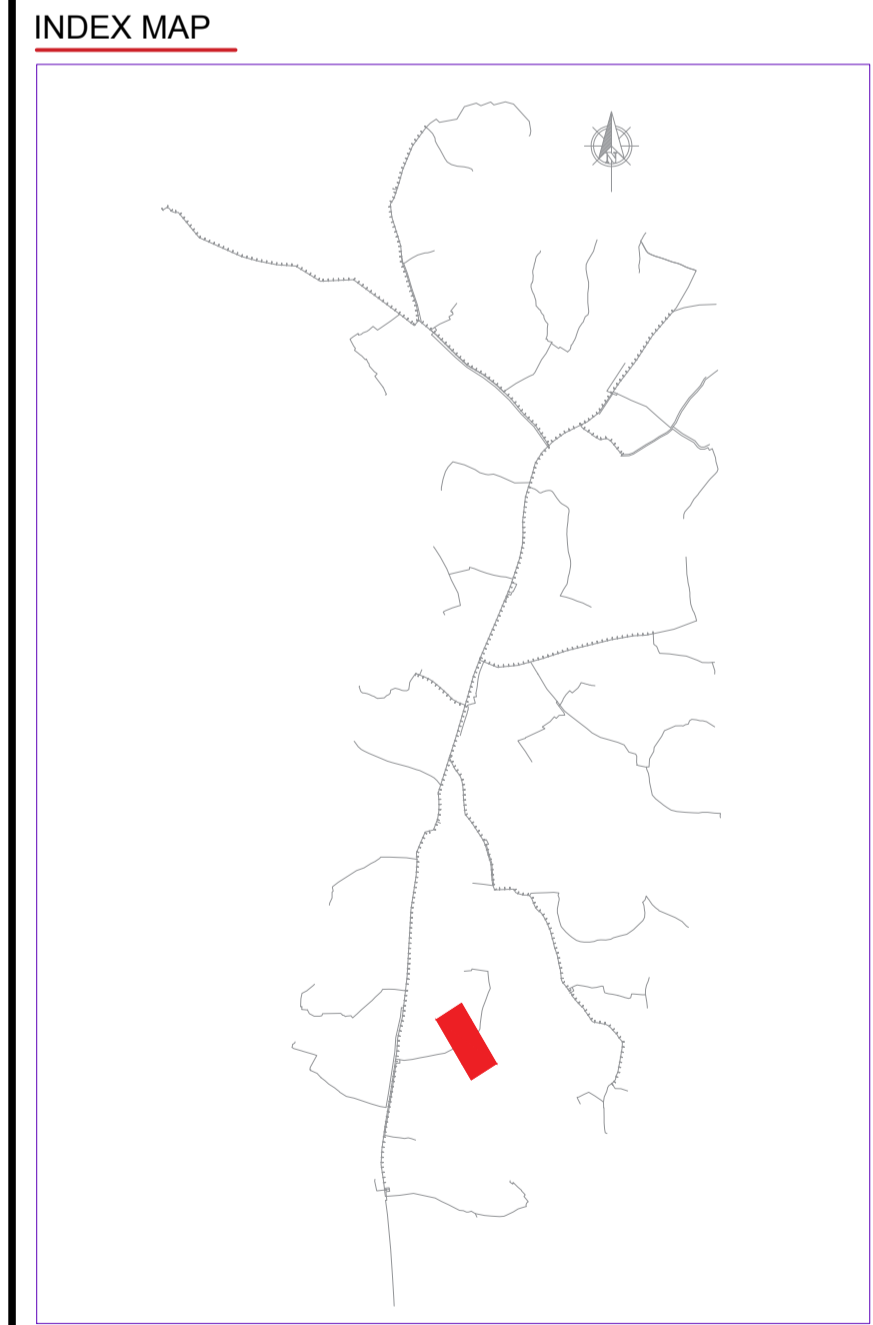
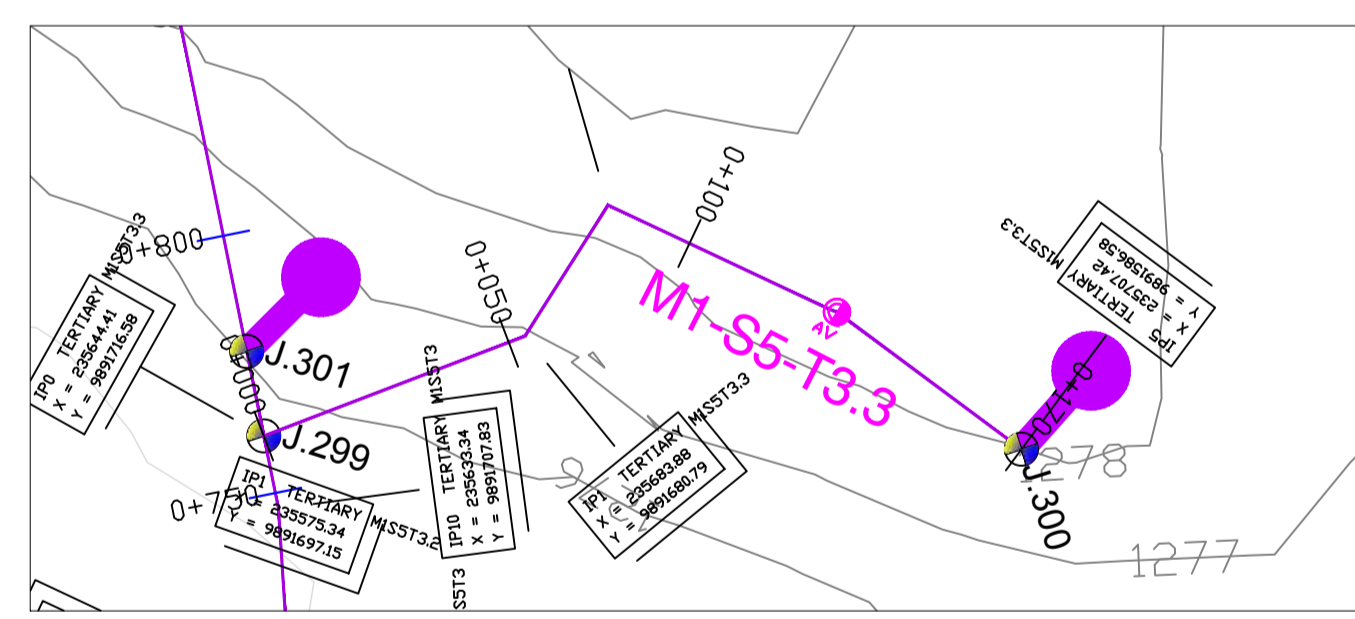
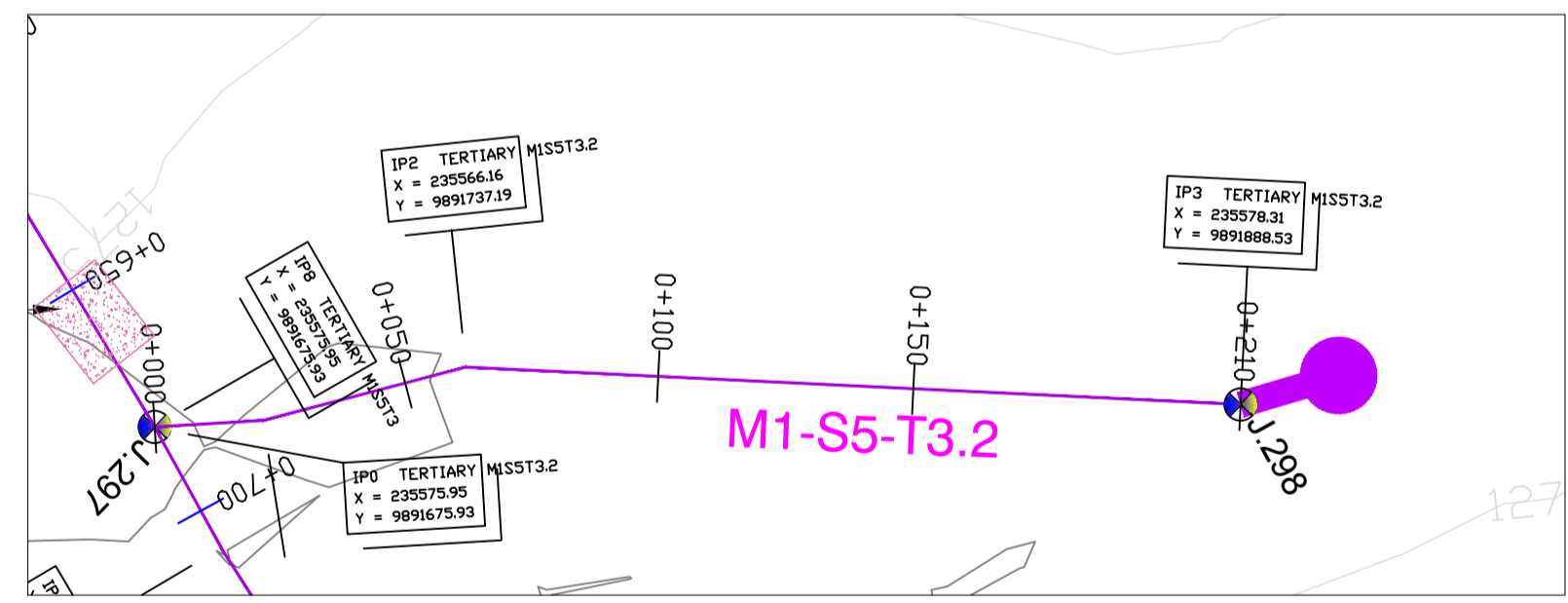
Consultants: aarvee associates

DRG. NO/MWE-KIS-NET-PP/M1S5T3-03 Date APR 2022





- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
1. NOMINAL DEPTH OF COVER TO PIPELINE IS 0.9M
 2. FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 3. THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 4. THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
 5. REFER TO AUXILIARY WORKS DRAWINGS FOR ANCHORAGE TO PIPELINES, AIR VALVES DETAILS, PIPE PEDESTALS, PULLEY SUPPORT, TRENCH DETAILS, VALVE CHAMBERS, WASHOUT CHAMBERS AND WATER METERS.
 6. THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 7. ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

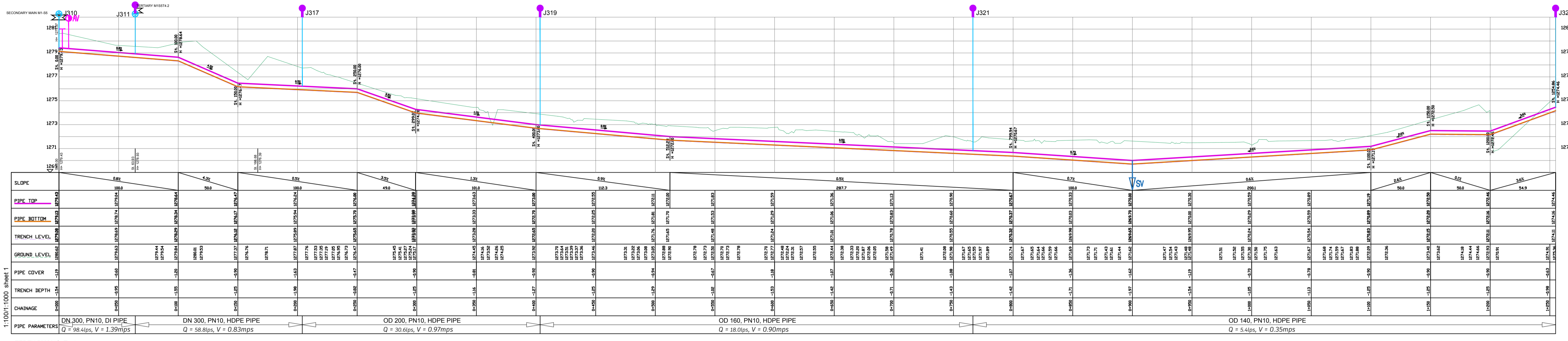
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M1S5T3.2, M1S5T3.3**

Consultants: **arvee associates**
arvee associates consultants Pvt. Ltd.
Ravula Residency, Shreejaya Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33739333 Fax: +91-40-33739377
e-mail: irrigation@arvee.net, web: www.arvee.net

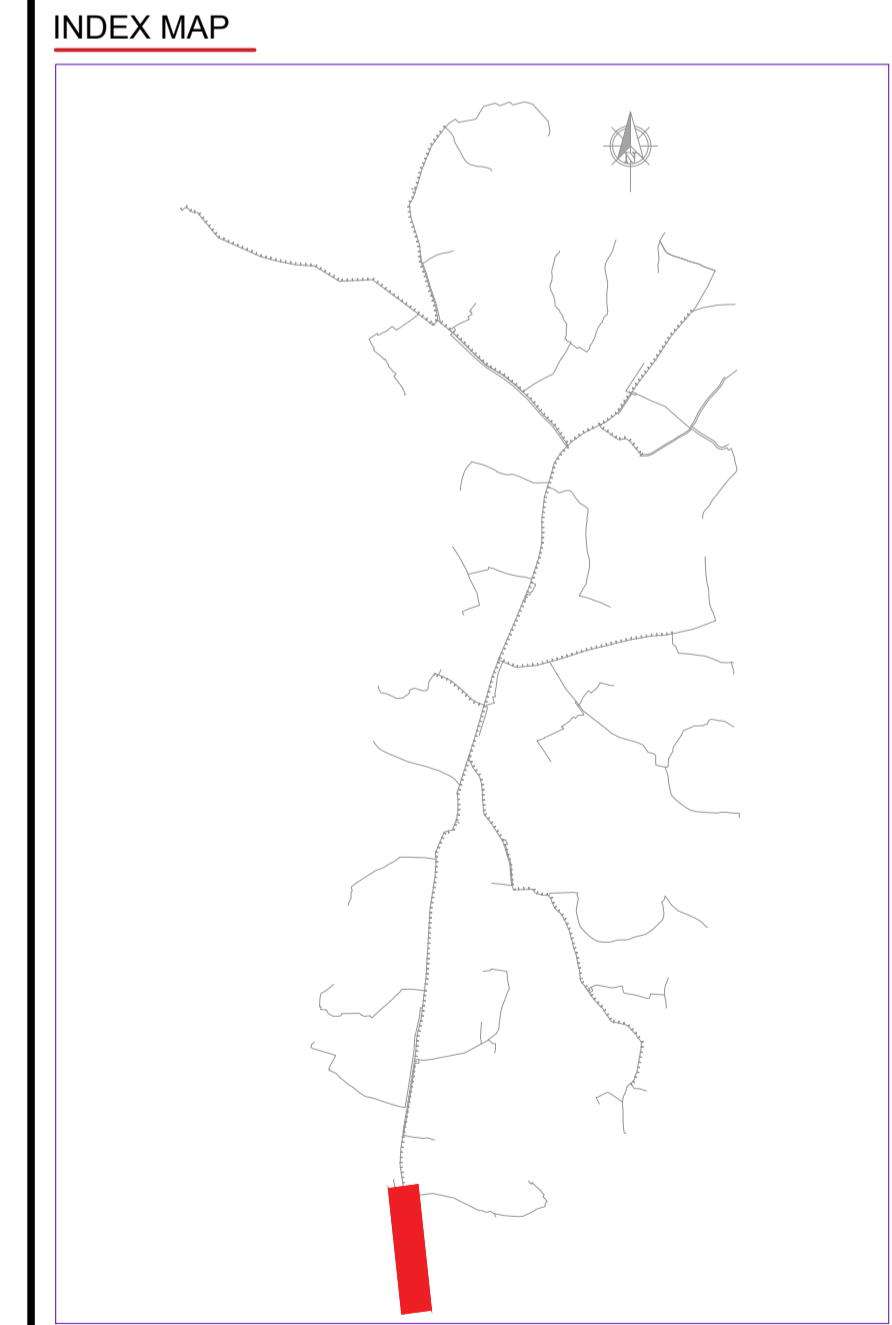
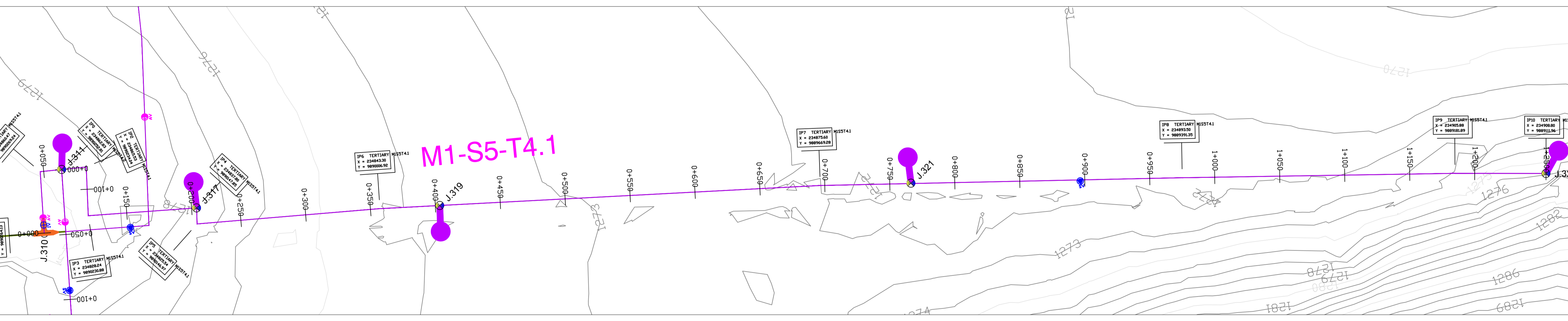
DRG. NO./MWE-KIS-NET-PP/M1S5T3-04 Date / APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

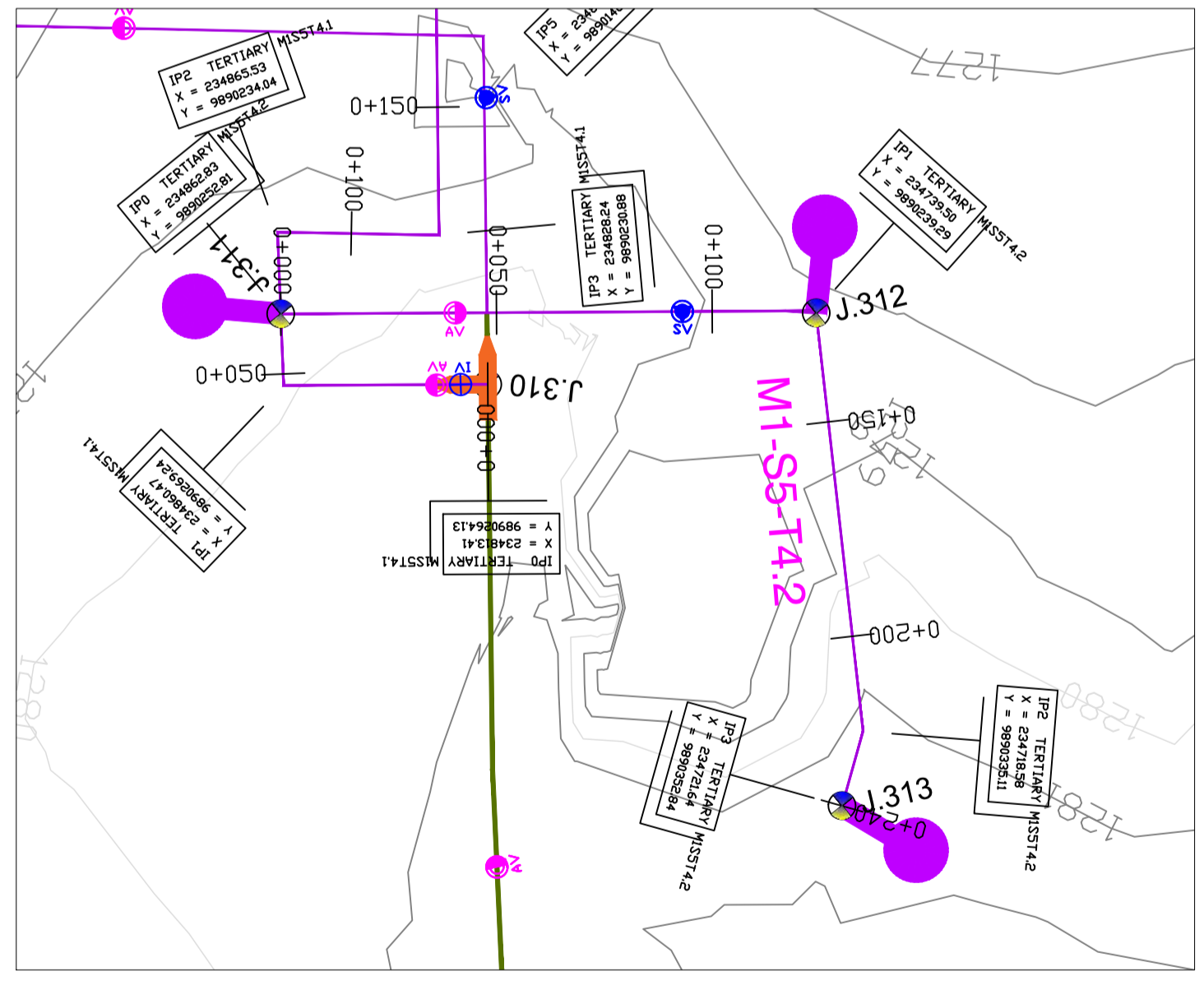
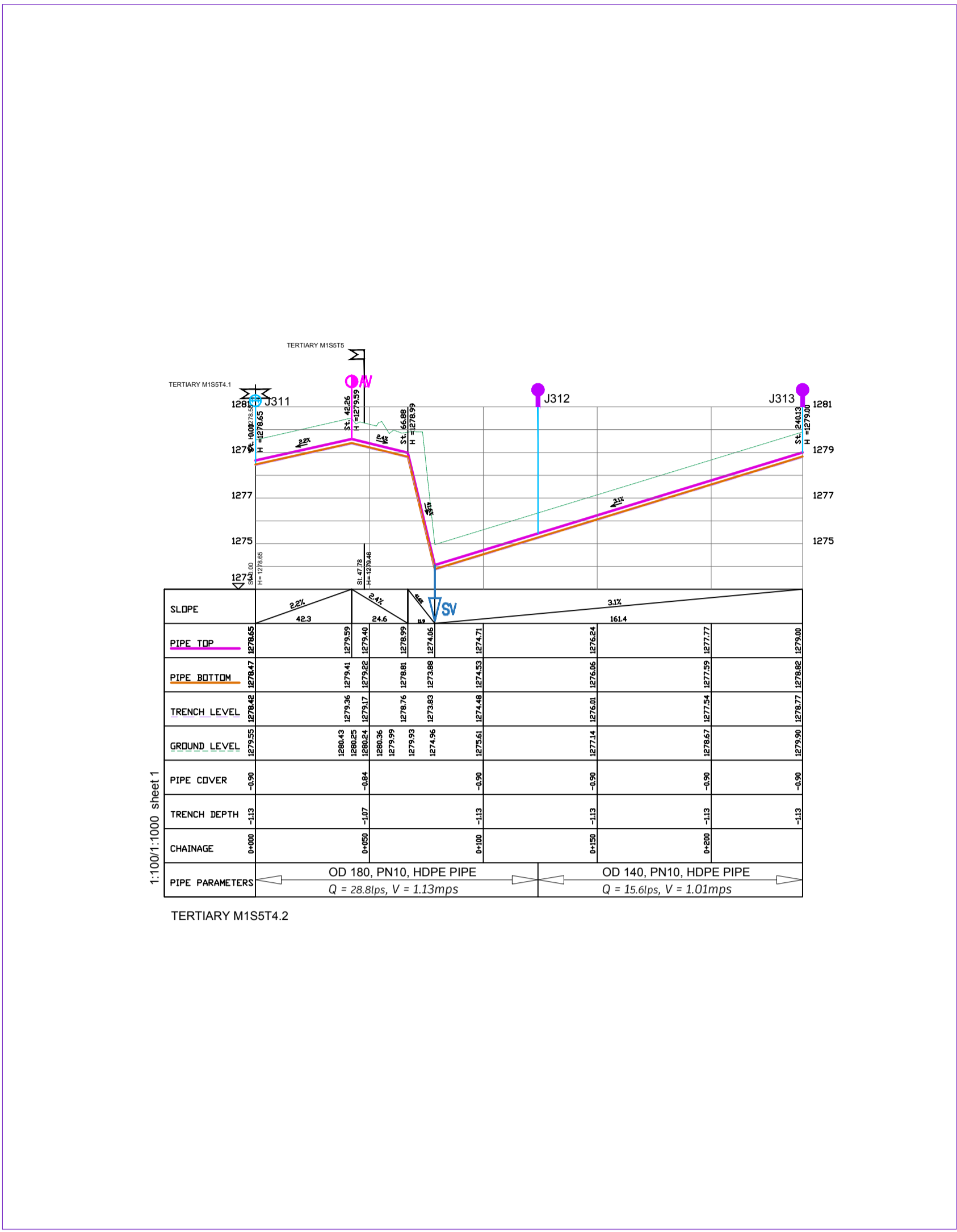
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M1S5T4.1**

Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd.
Ravala Residency, Shivraj Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net, web: www.aarvee.net

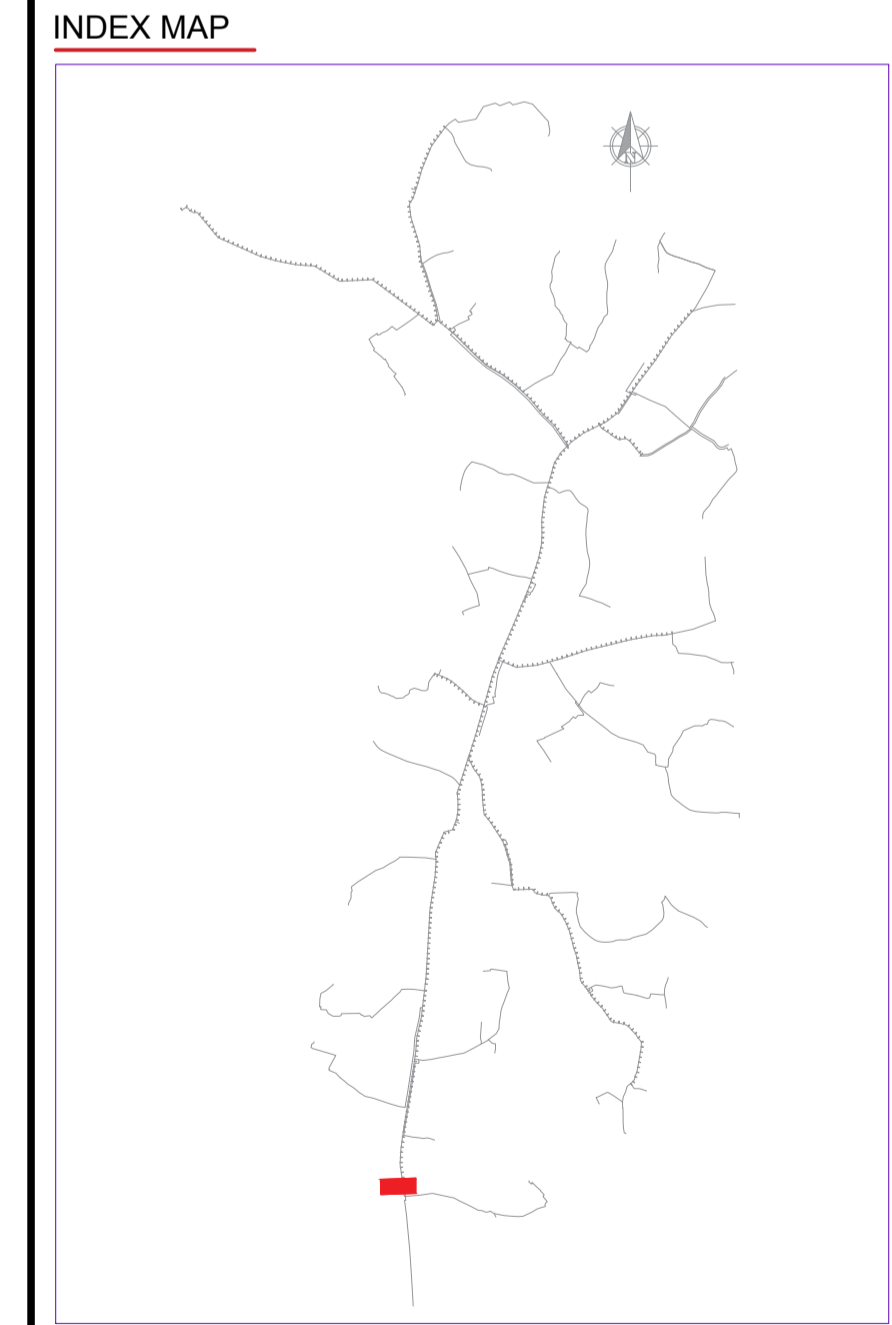
DRG. NO/MWE-KIS-NET-PP/M1S5T4-01 Date: APR 2022



LEGEND

	GROUND LEVEL		PIPE TOP
	PIPE BOTTOM		TRENCH BOTTOM
	JUNCTION LOCATIONS		AIR VALVE On Profile View
	AIR VALVE On Plan View		SCOUR VALVE On Profile View
	SCOUR VALVE On Plan View		ISOLATION VALVE On Profile View
	ISOLATION VALVE On Plan View		ANTI-SURGE VALVE On Profile View
	ANTI-SURGE VALVE On Plan View		PIPE T-JUNCTION On Profile View
	PIPE T-JUNCTION On Plan View		PIPE CROSS-JUNCTION On Profile View
	PIPE CROSS-JUNCTION On Plan View		BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
 - NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

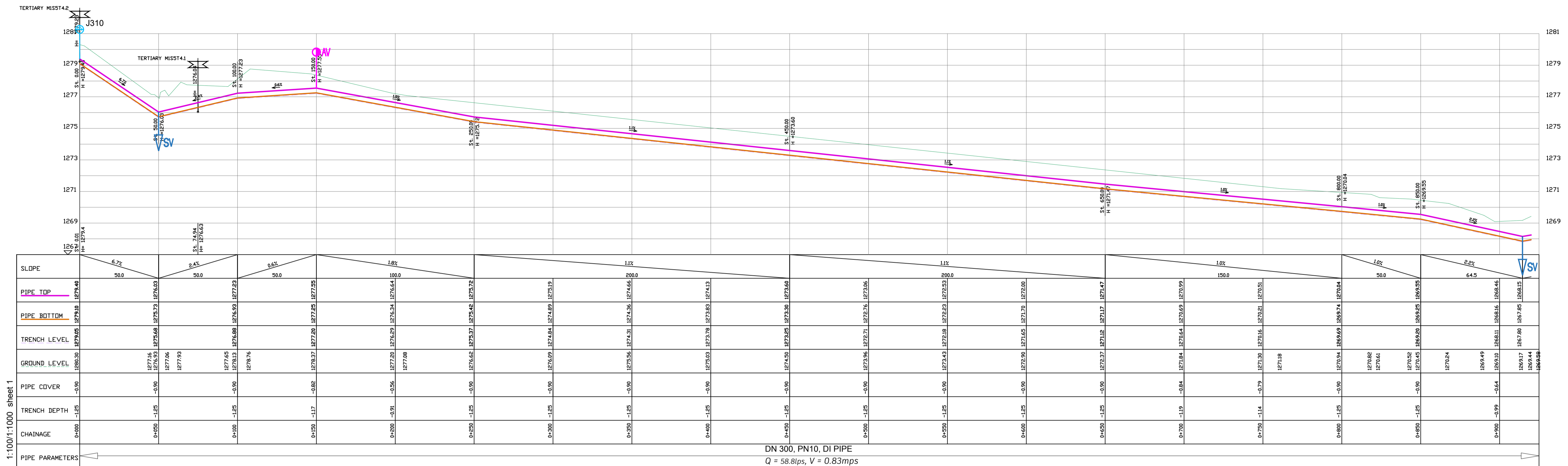
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M1S5T4.2**

Consultants: **aarvee associates**
architects engineers consultants Pvt. Ltd. S
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 50, India
Tel: +91-40-33739333 Fax: +91-40-33739077
e-mail: irrigation@aarvee.net, web: www.aarvee.net

DRG. NO. /MWE-KIS-NET-PP/M1S5T4-02 Date: APR 2022



1:1000/1:1000 sheet 1

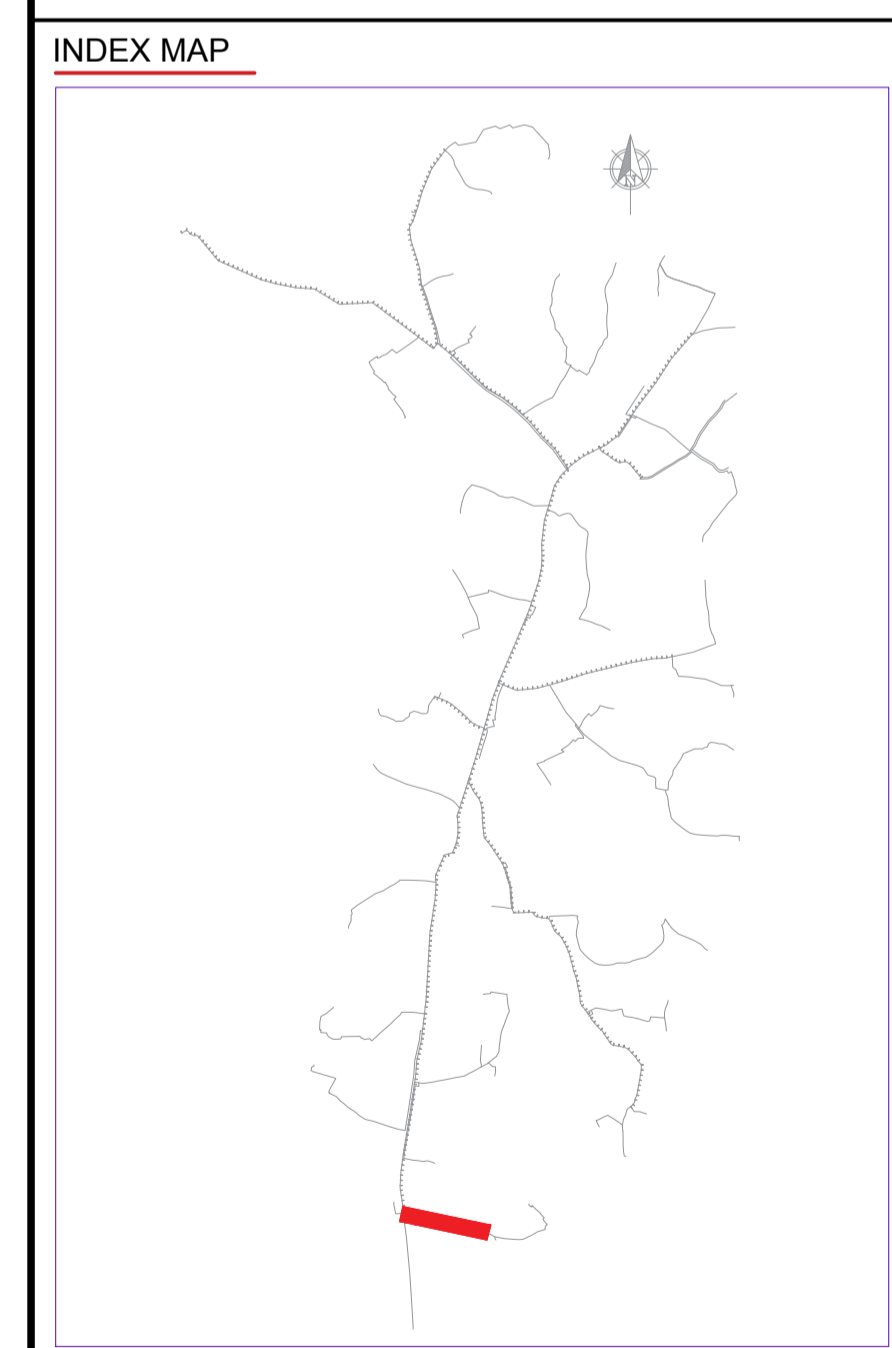
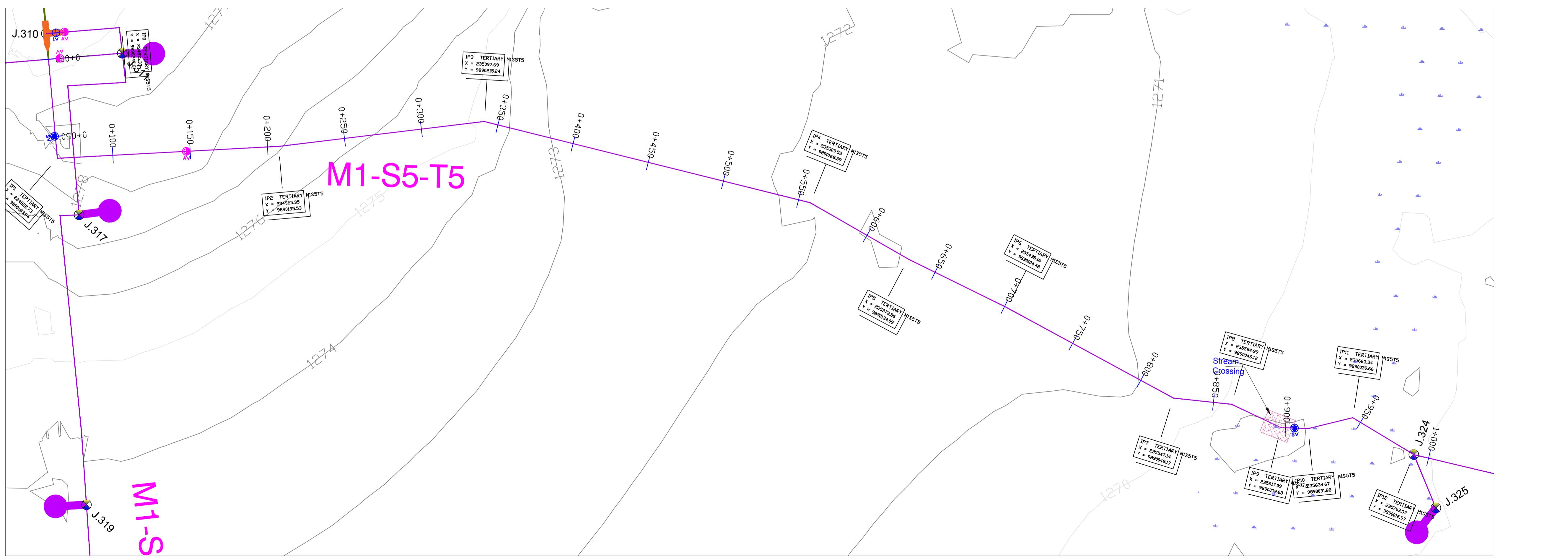
DN 300, PN10, DI PIPE
Q = 58.8lps, V = 0.83mps

TERTIARY M1S5T5

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



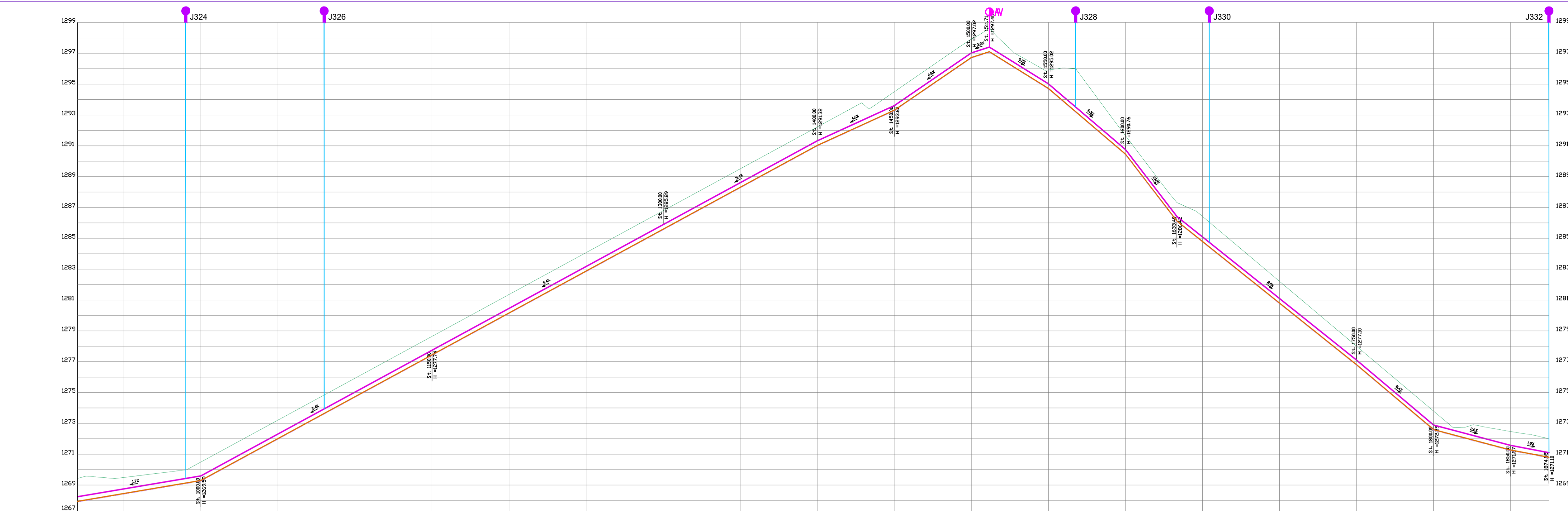
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

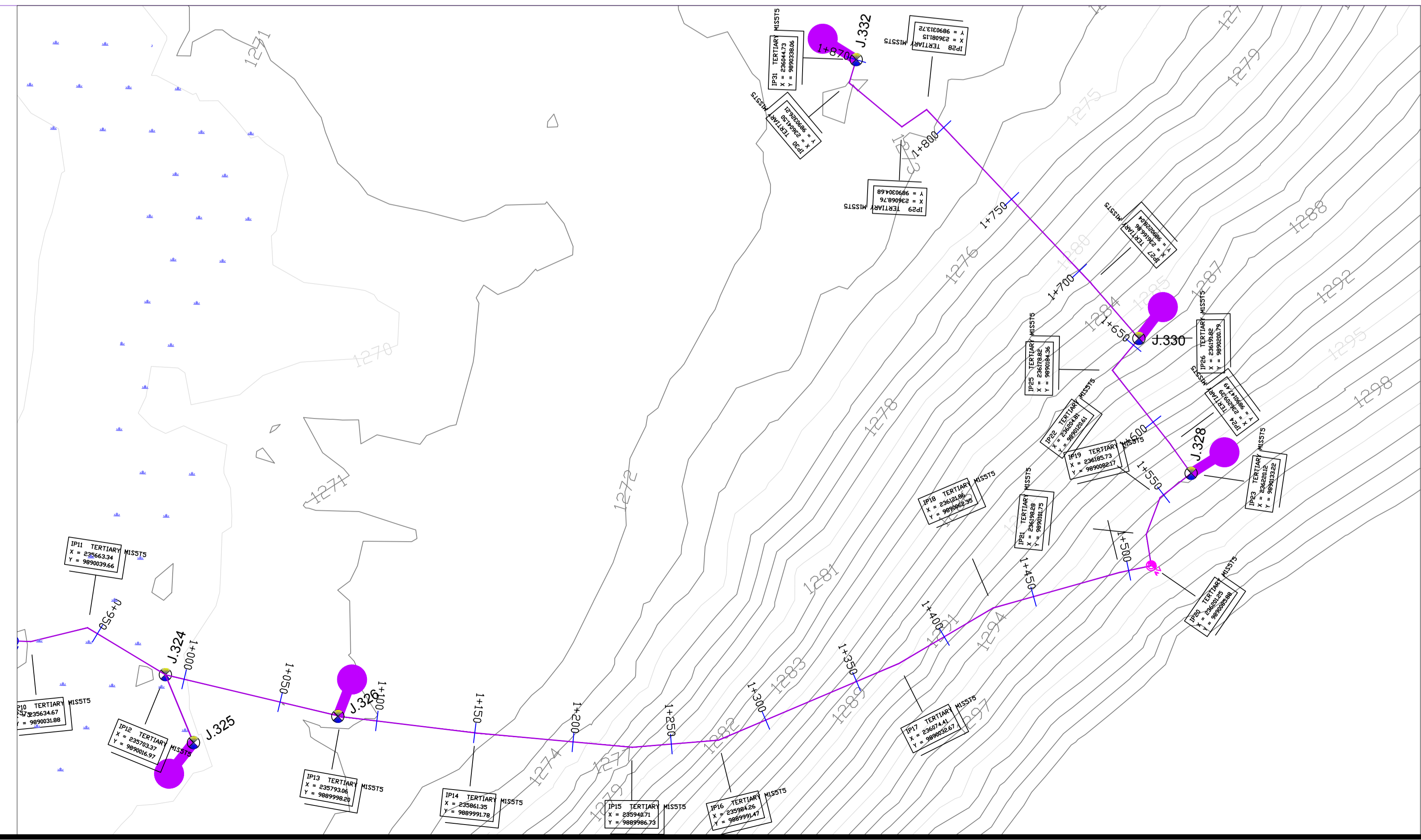
Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAINS M1S5T5**

Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd.
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 50, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net web: www.aarvee.net



SLOPE	1.7%		5.4%		5.4%		4.6%		6.0%		6.2%		6.3%		13.0%		8.0%		6.4%		6.6%		1.9%		
PIPE TOP	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44		
PIPE BOTTOM	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44		
TRENCH LEVEL	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44		
GROUND LEVEL	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44	1267.44		
PIPE COVER	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		
TRENCH DEPTH	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25		
CHAINAGE	0+00	0+50	1+00	1+50	2+00	2+50	3+00	3+50	4+00	4+50	5+00	5+50	6+00	6+50	7+00	7+50	8+00	8+50	9+00	9+50	10+00	10+50	11+00		
PIPE PARAMETERS	DN 300, PN10, DI PIPE Q = 58.8lps, V = 0.83mps					DN 300, PN10, DI PIPE Q = 46.2lps, V = 0.65mps					OD 250, PN10, HDPE PIPE Q = 34.2lps, V = 0.70mps					OD 225, PN10, HDPE PIPE Q = 25.2lps, V = 0.63mps					OD 140, PN10, HDPE PIPE Q = 12.6lps, V = 0.82mps				

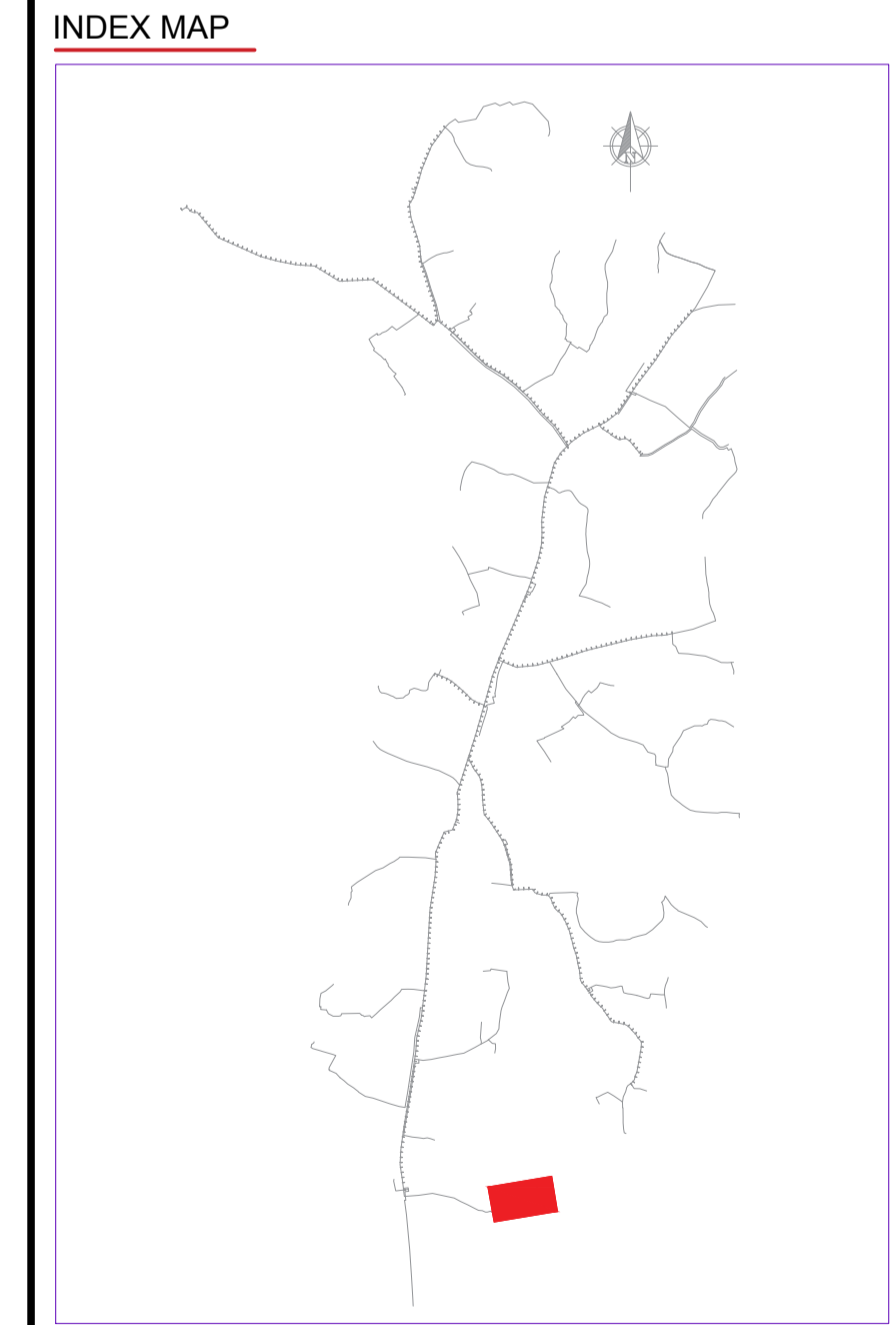
TERTIARY M1S5T5



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
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 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

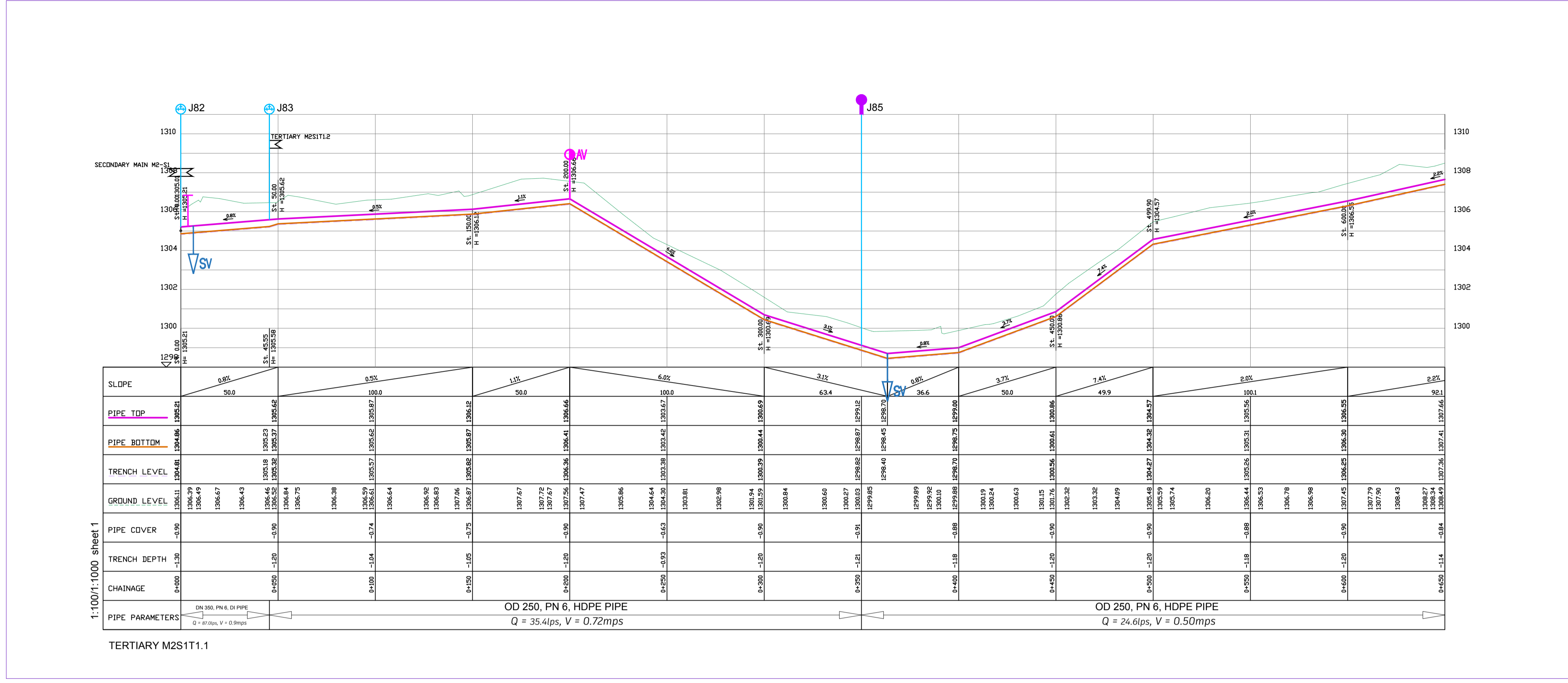
Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAINS M1S5T5**

Consultants: **arvee associates**
arvee associates consultants Pvt.Ltd. S.
Ravula Residency, Shivraj Colony Main Rd., Hyderabad 62, India
Tel: +91-40-3379333 Fax: +91-40-3379377
e-mail: irrigation@arvee.net web: www.arvee.net

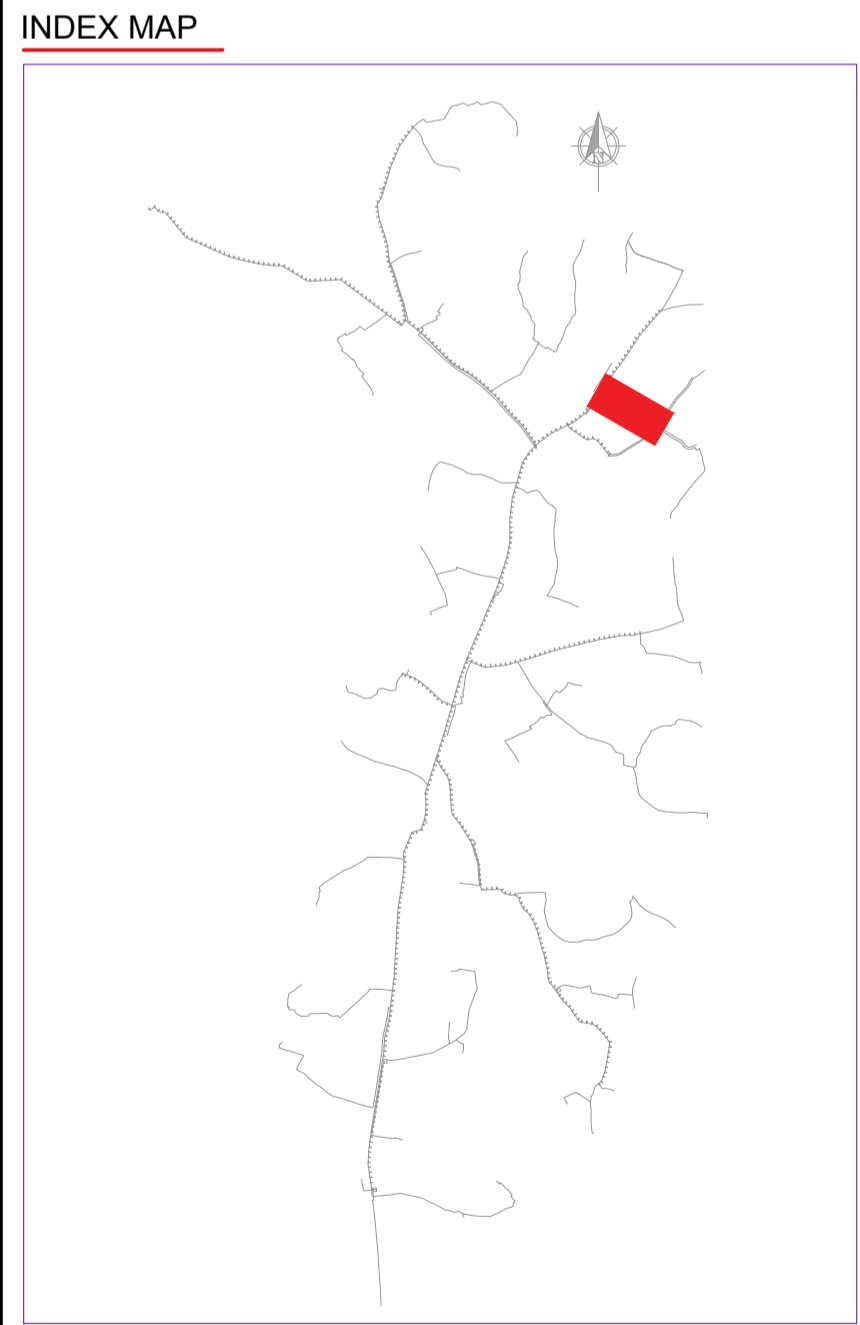
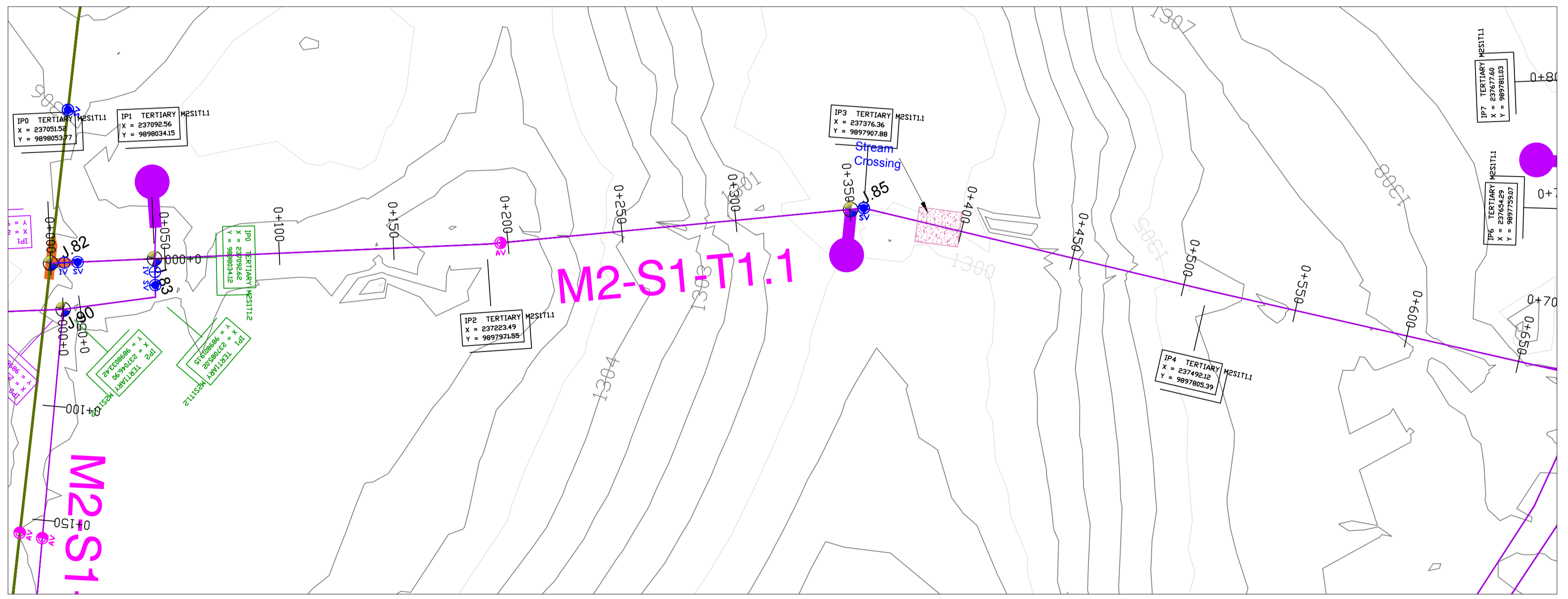
DRG. NO/MWE-KIS-NET-PP/M1S5T5-02 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
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- PIPE CROSS-JUNCTION On Profile View
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

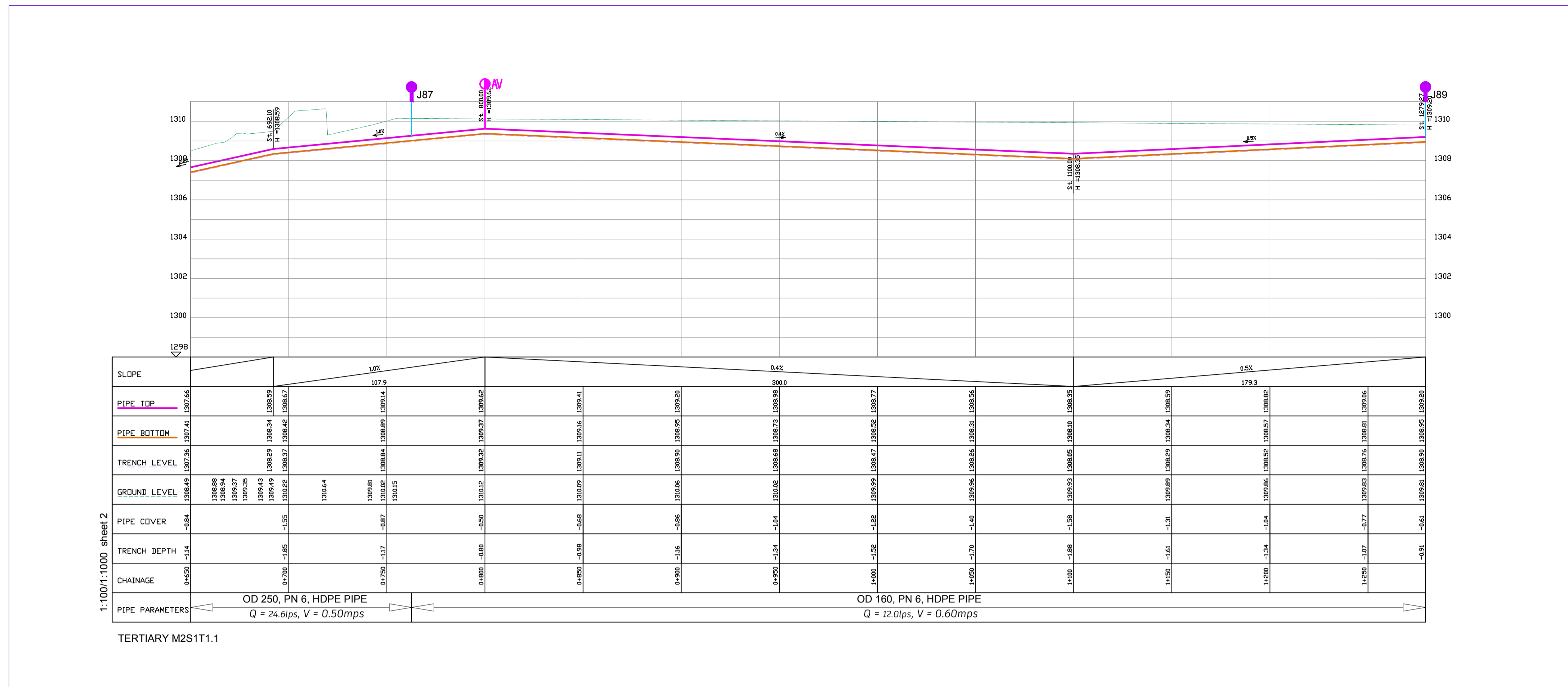
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M2S1T1.1**

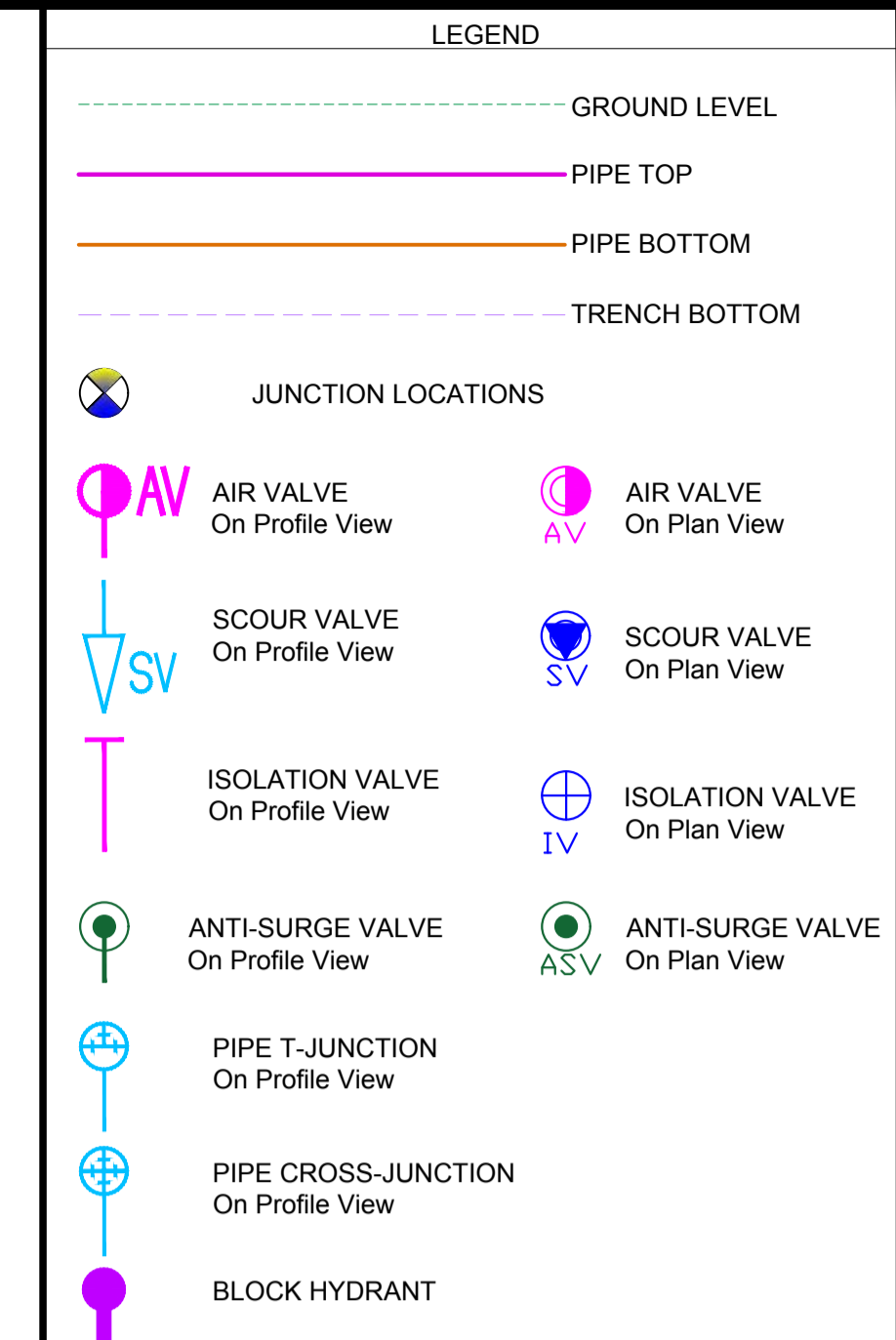
Consultants: **arvee associates**
arvee associates consultants Pvt. Ltd. S.
Ravala Residency, Shree Nagar Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@arvee.net web: www.arvee.net

DRG. NO/MWE-KIS-NET-PPM2S1T1-01 Date: APR 2022



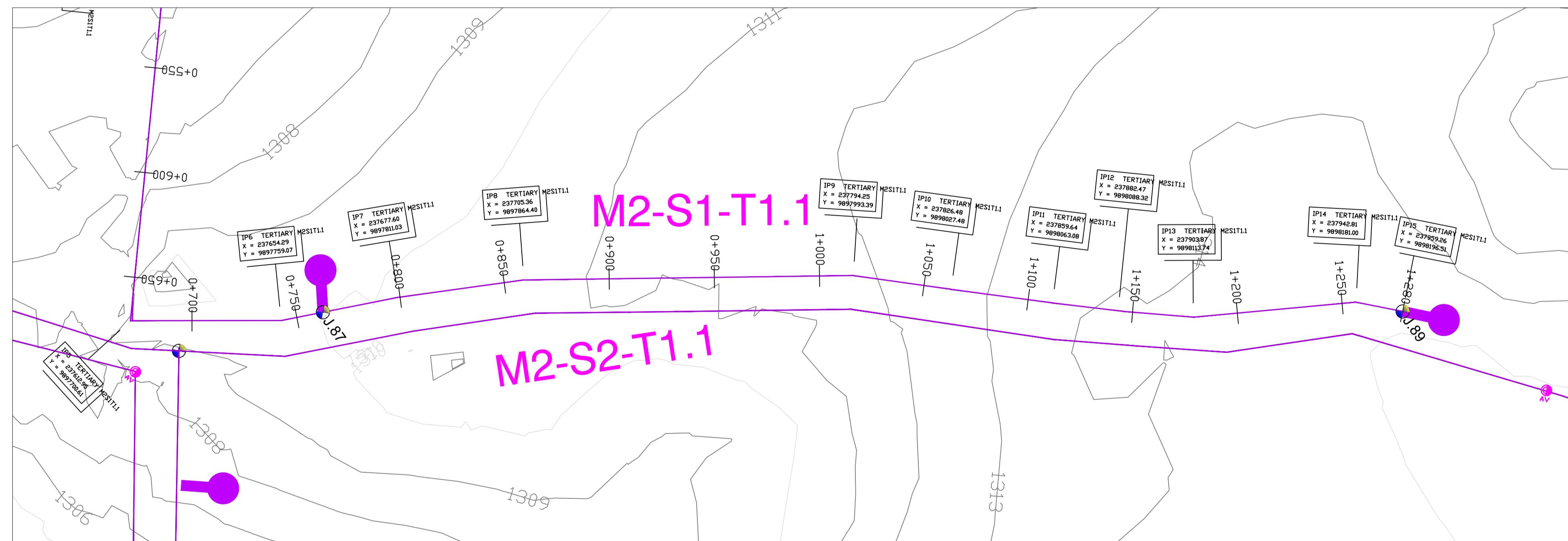
1:100/1:1000 sheet 2

TERTIARY M2S1T1.1

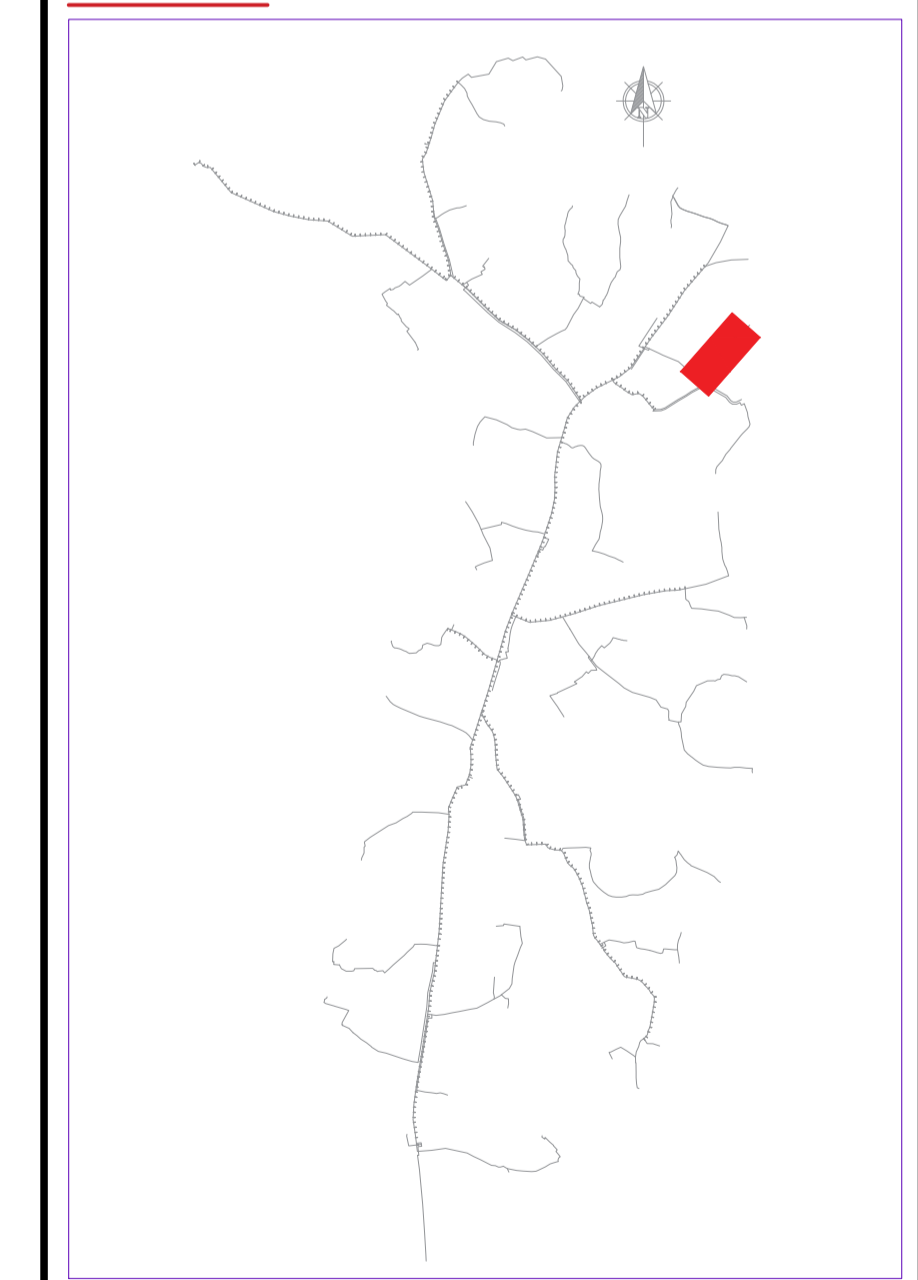


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INDEX MAP



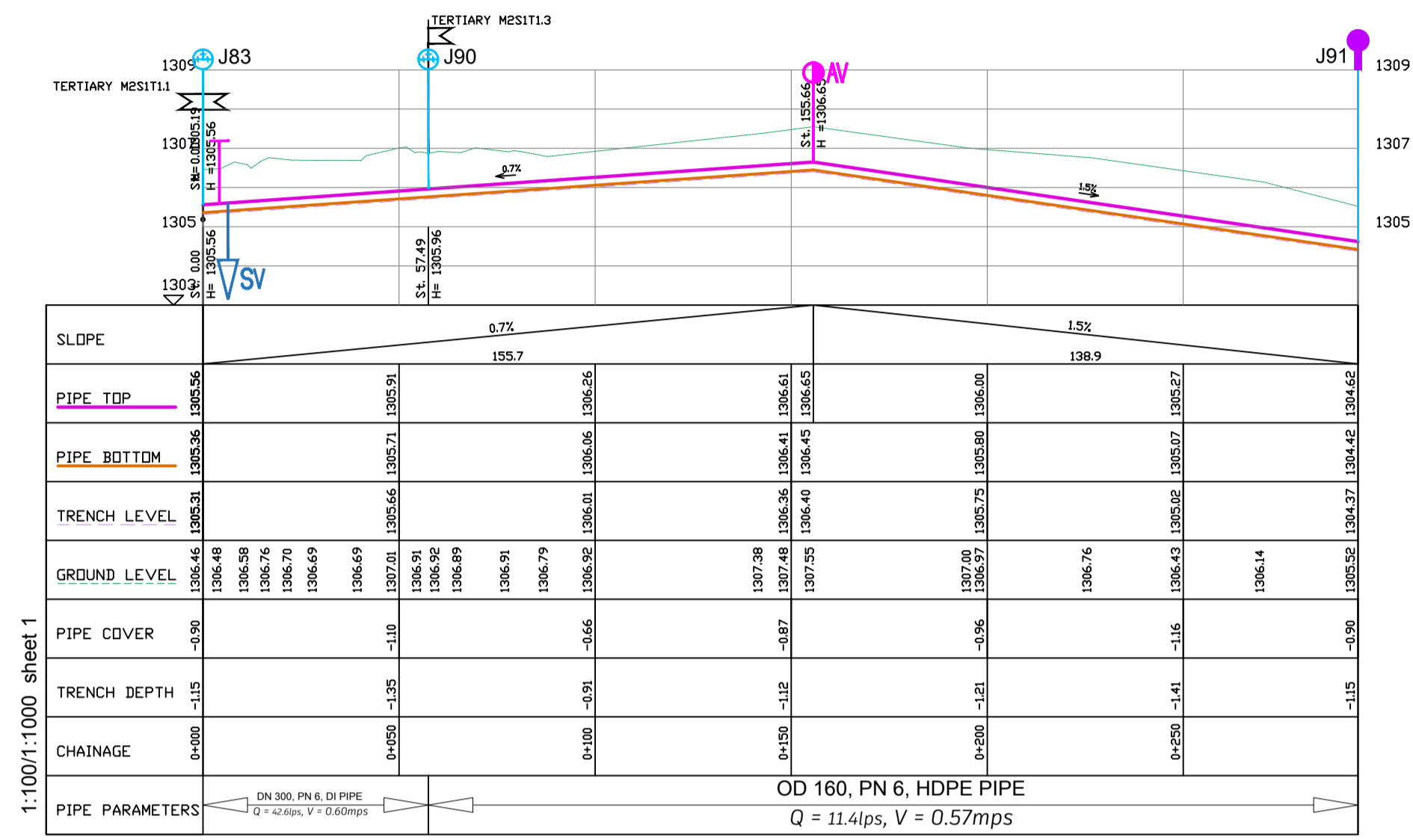
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Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

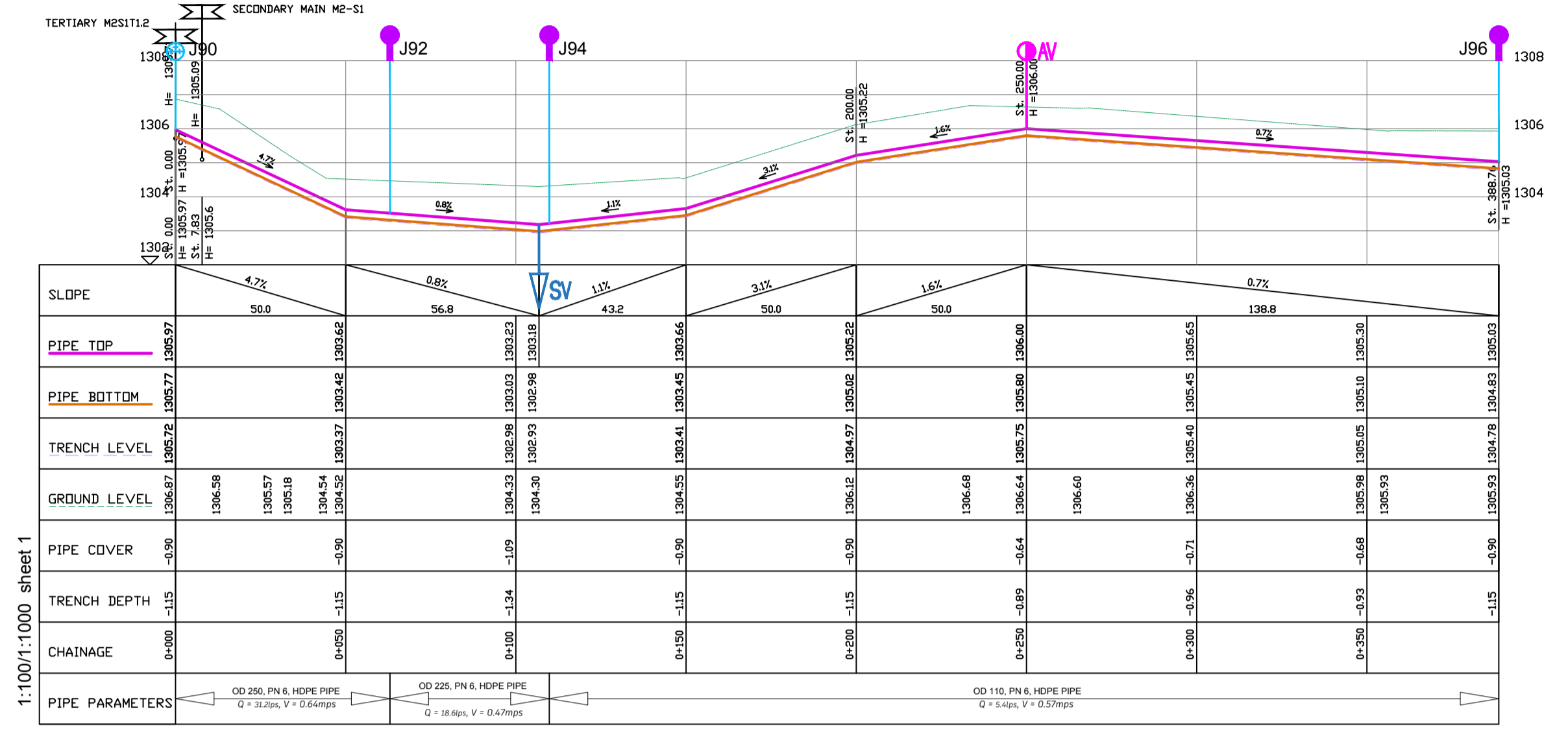
Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M2S1T1.1**

Consultants: **aarvee associates**
architects engineers consultants pvt ltd. s.
Rwanda Residence, Shingira Colony Main Rd., Hydrobad 62, India
Tel: +91-48-3373933 Fax: +91-482236077
e-mail: irrigation@aarvee.net web: www.aarvee.net



TERTIARY M2S1T1.2

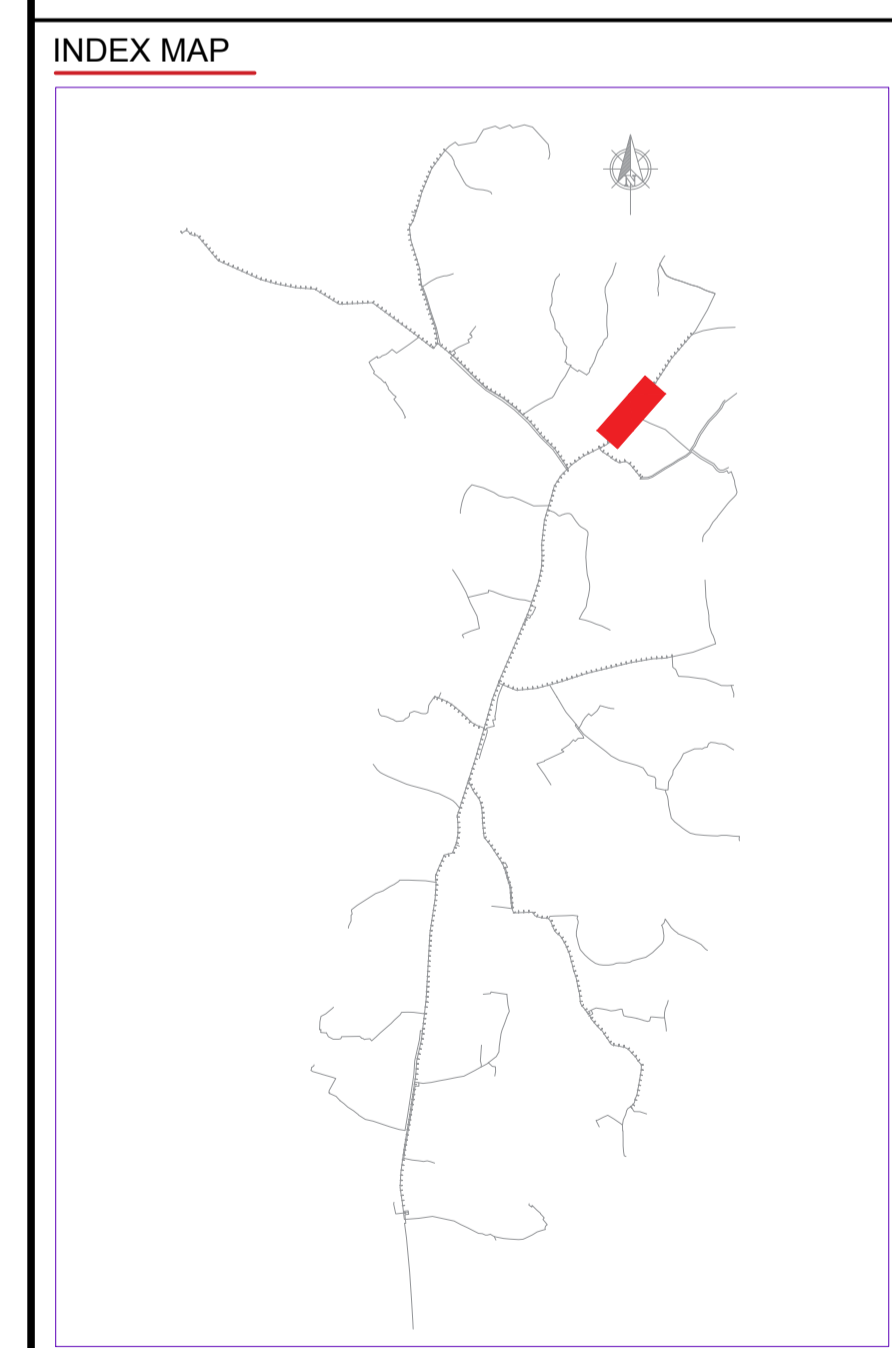


TERTIARY M2S1T1.3

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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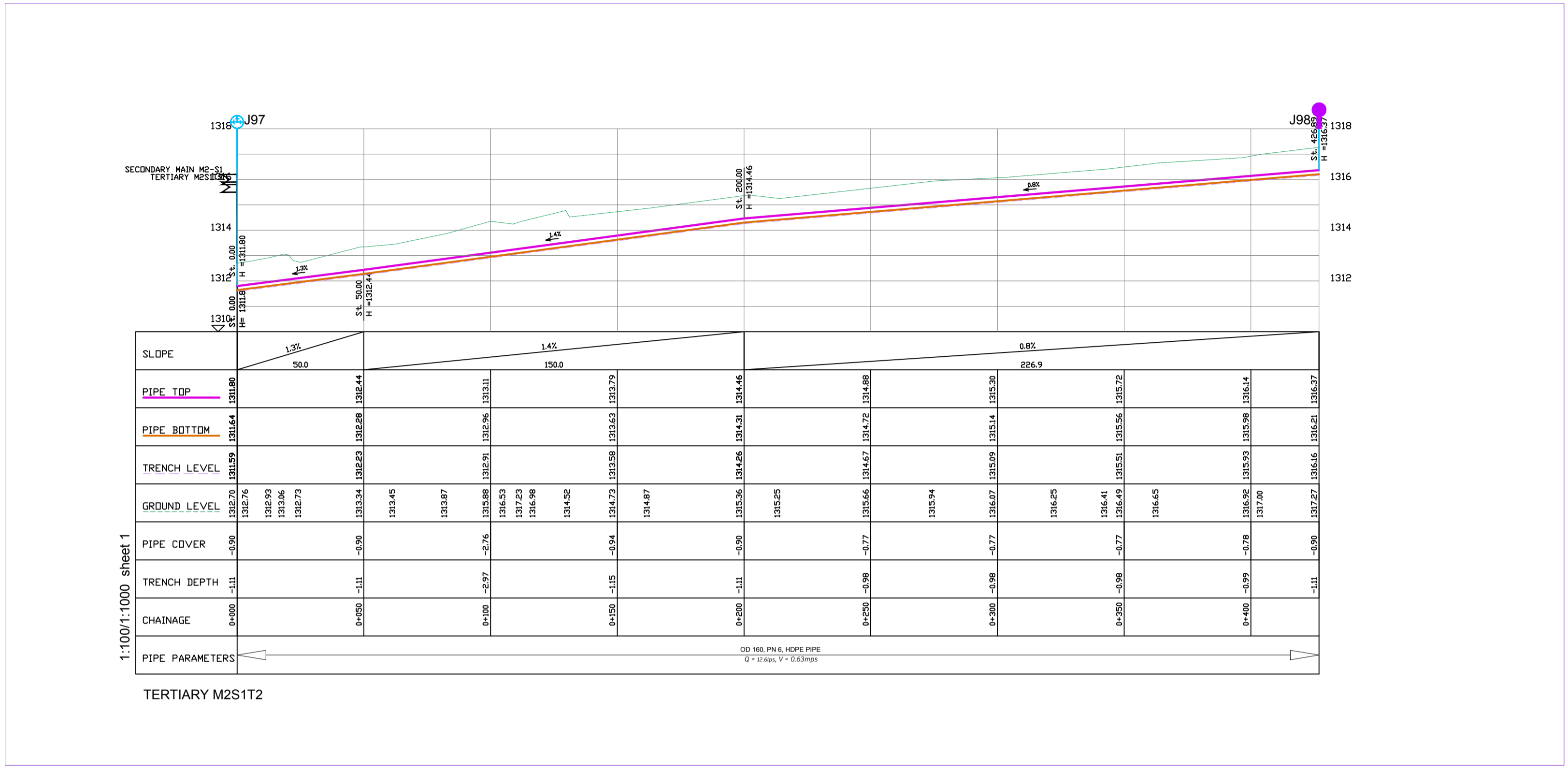
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAINS M2S1T1.2, M2S1T1.3**

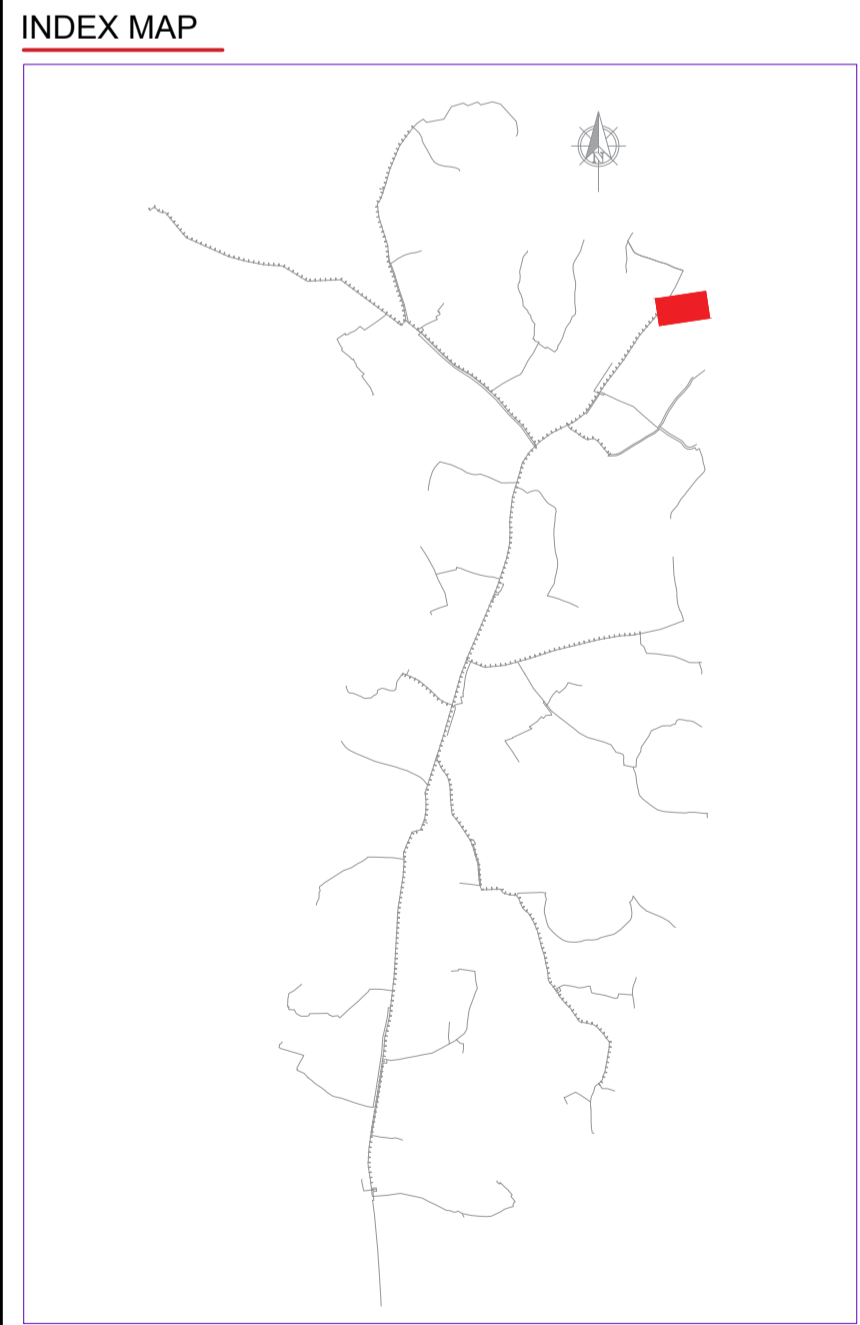
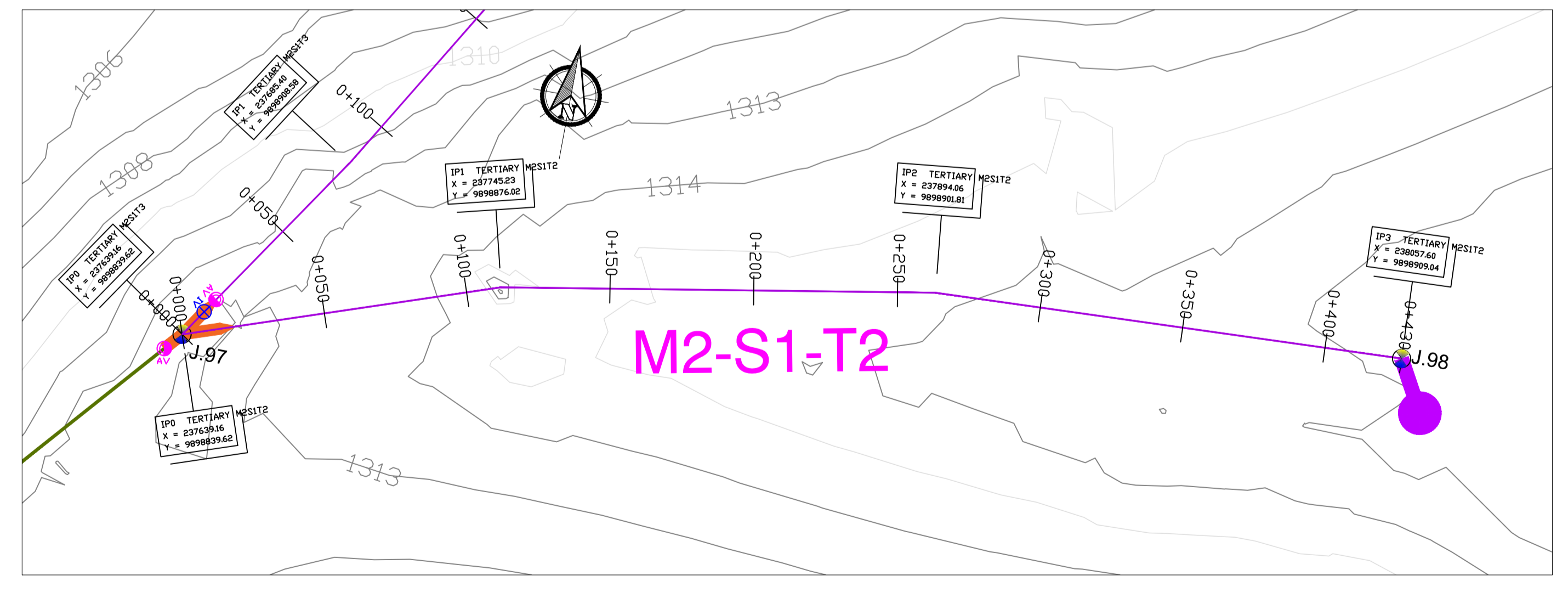
Consultants: **arvee associates**
arvee associates consultants Pvt. Ltd.
Ravala Residency, Shrikrishna Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33737633 Fax: +91-40-33736077
e-mail: irrigation@arvee.net, web: www.arvee.net



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

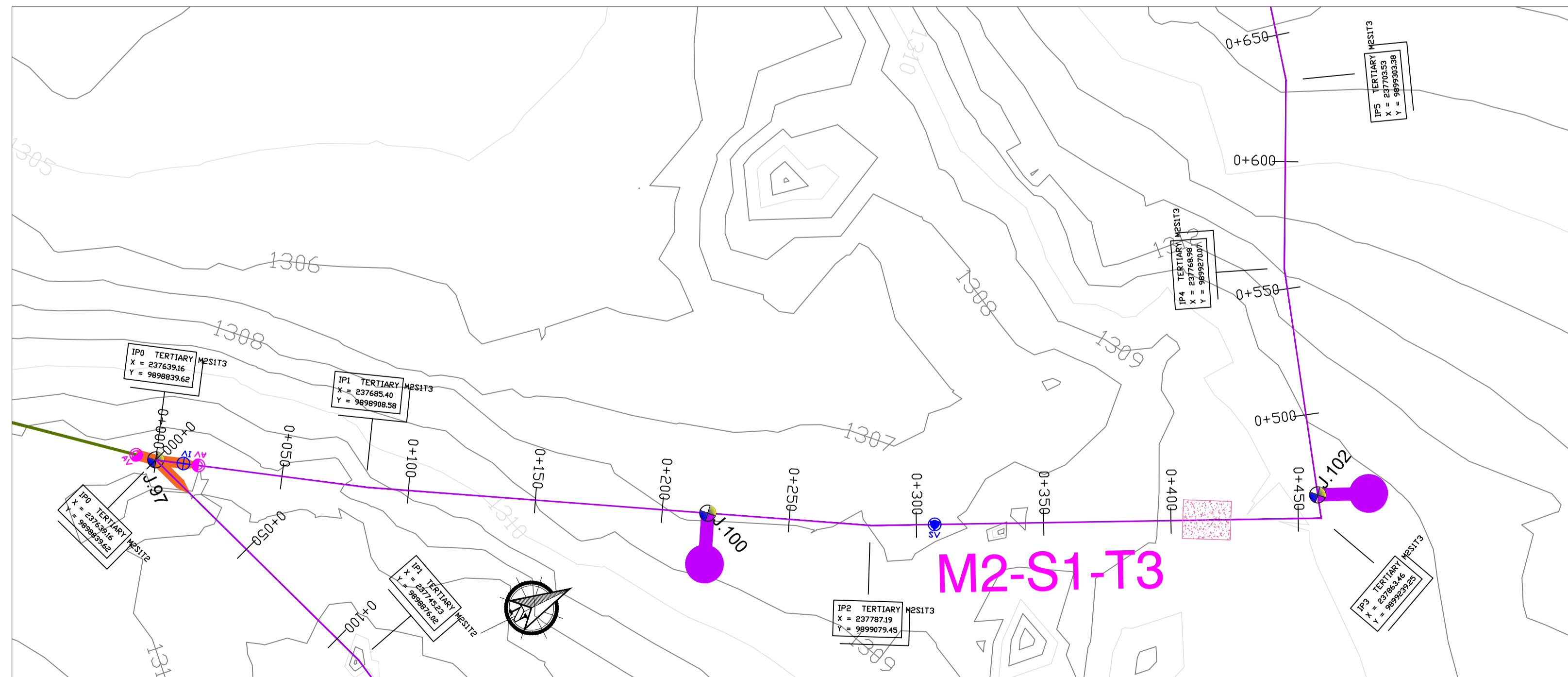
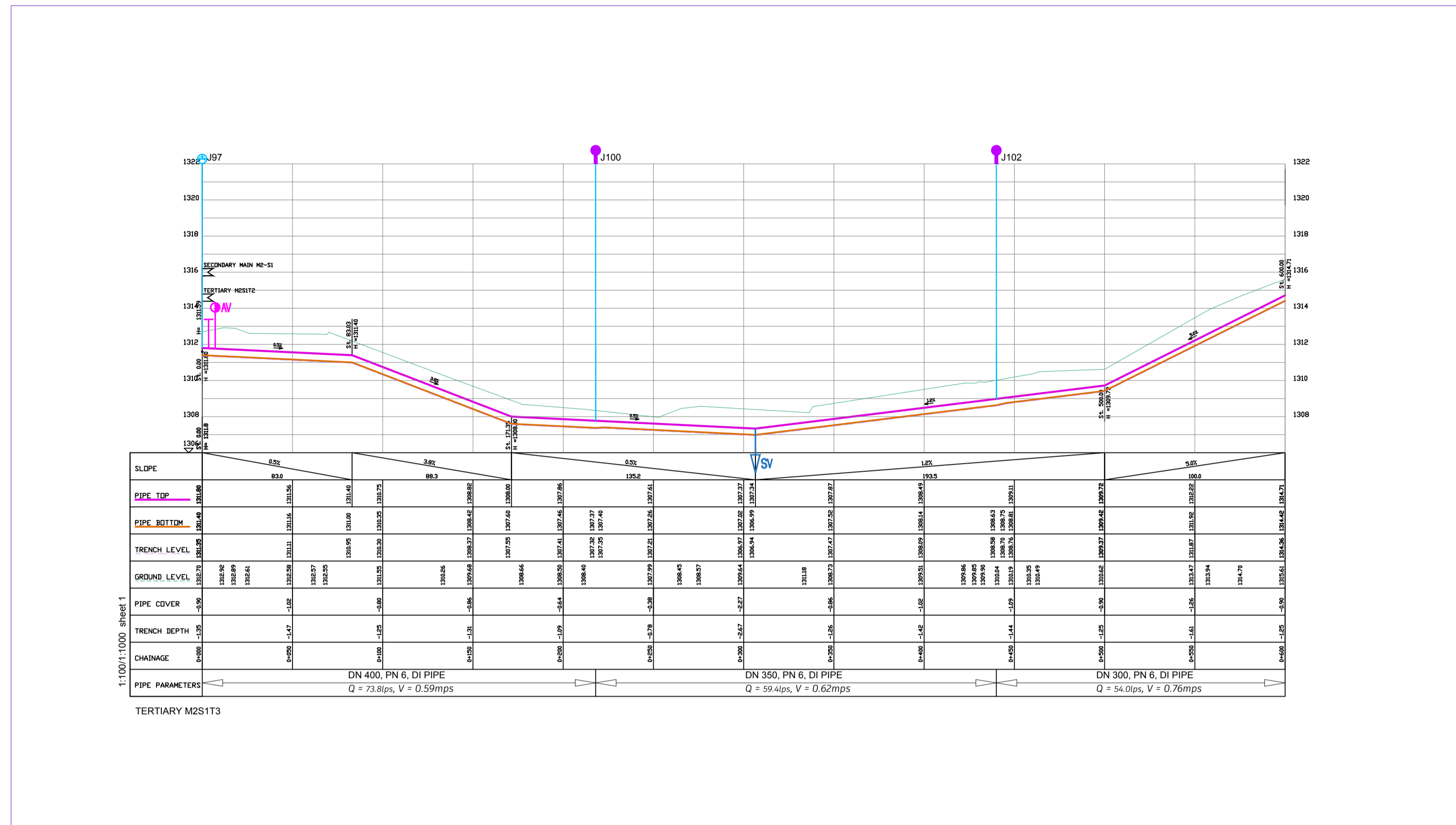
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M2S1T2**

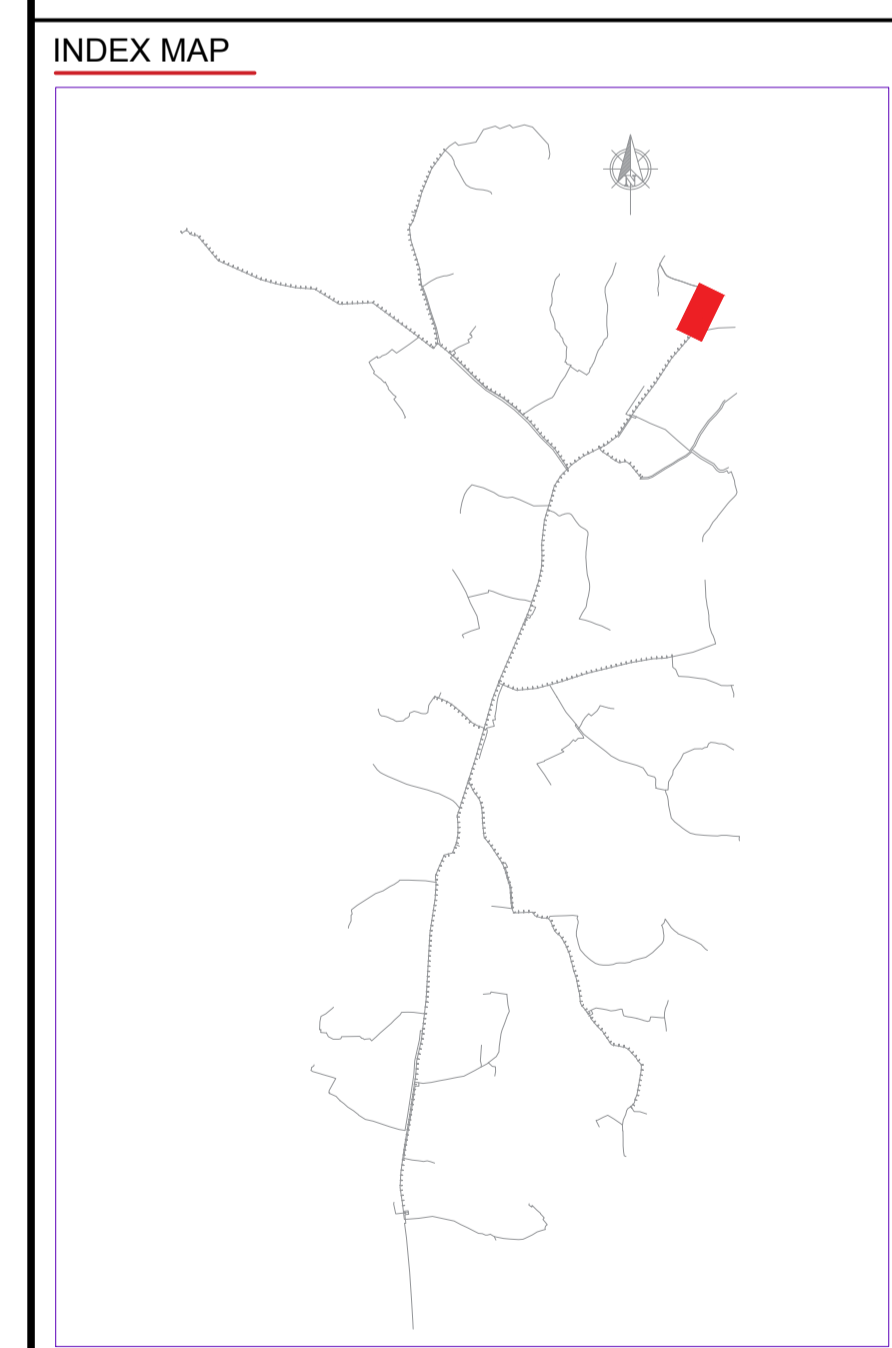
Consultants: **aarvee associates**
aarvee associates consultants Pvt. Ltd. S
Ravula Road, Shivajinagar Colony Main Rd., Hyderabad 50, India
Tel: +91-40-33737633 Fax: +91-40-33736777
e-mail: irrigation@aarvee.net web: www.aarvee.net

DRG. NO. MWE-KIS-NET-PPM2S1T2-01 Date: APR 2022



LEGEND	
--- (dashed line)	GROUND LEVEL
— (solid line)	PIPE TOP
— (solid line)	PIPE BOTTOM
--- (dashed line)	TRENCH BOTTOM
⊗ (circle with cross)	JUNCTION LOCATIONS
AV (circle with AV)	AIR VALVE On Profile View
AV (circle with AV)	AIR VALVE On Plan View
SV (circle with SV)	SCOUR VALVE On Profile View
SV (circle with SV)	SCOUR VALVE On Plan View
IV (circle with IV)	ISOLATION VALVE On Profile View
IV (circle with IV)	ISOLATION VALVE On Plan View
ASV (circle with ASV)	ANTI-SURGE VALVE On Profile View
ASV (circle with ASV)	ANTI-SURGE VALVE On Plan View
⊕ (circle with cross)	PIPE T-JUNCTION On Profile View
⊕ (circle with cross)	PIPE CROSS-JUNCTION On Profile View
⊙ (circle with dot)	BLOCK HYDRANT

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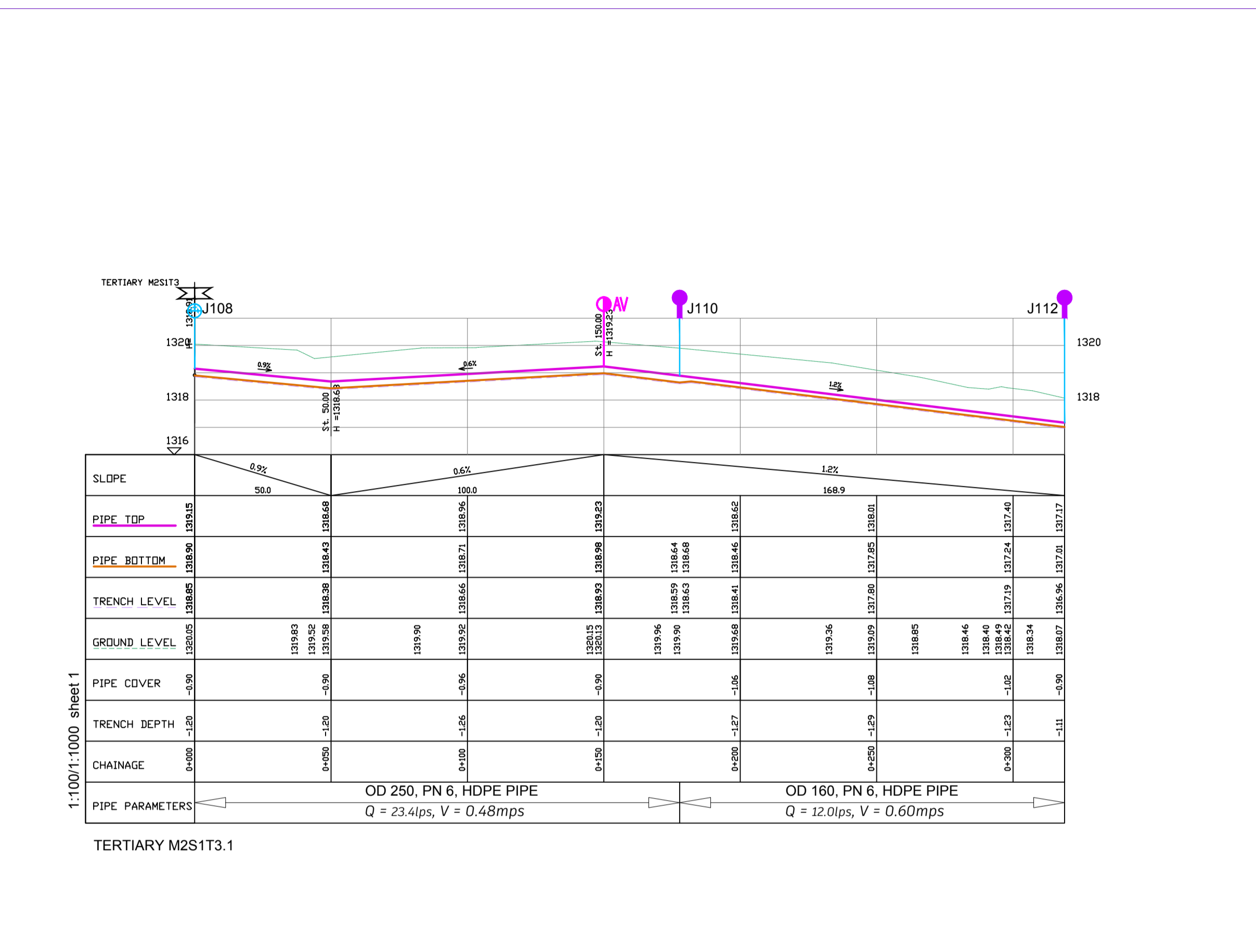
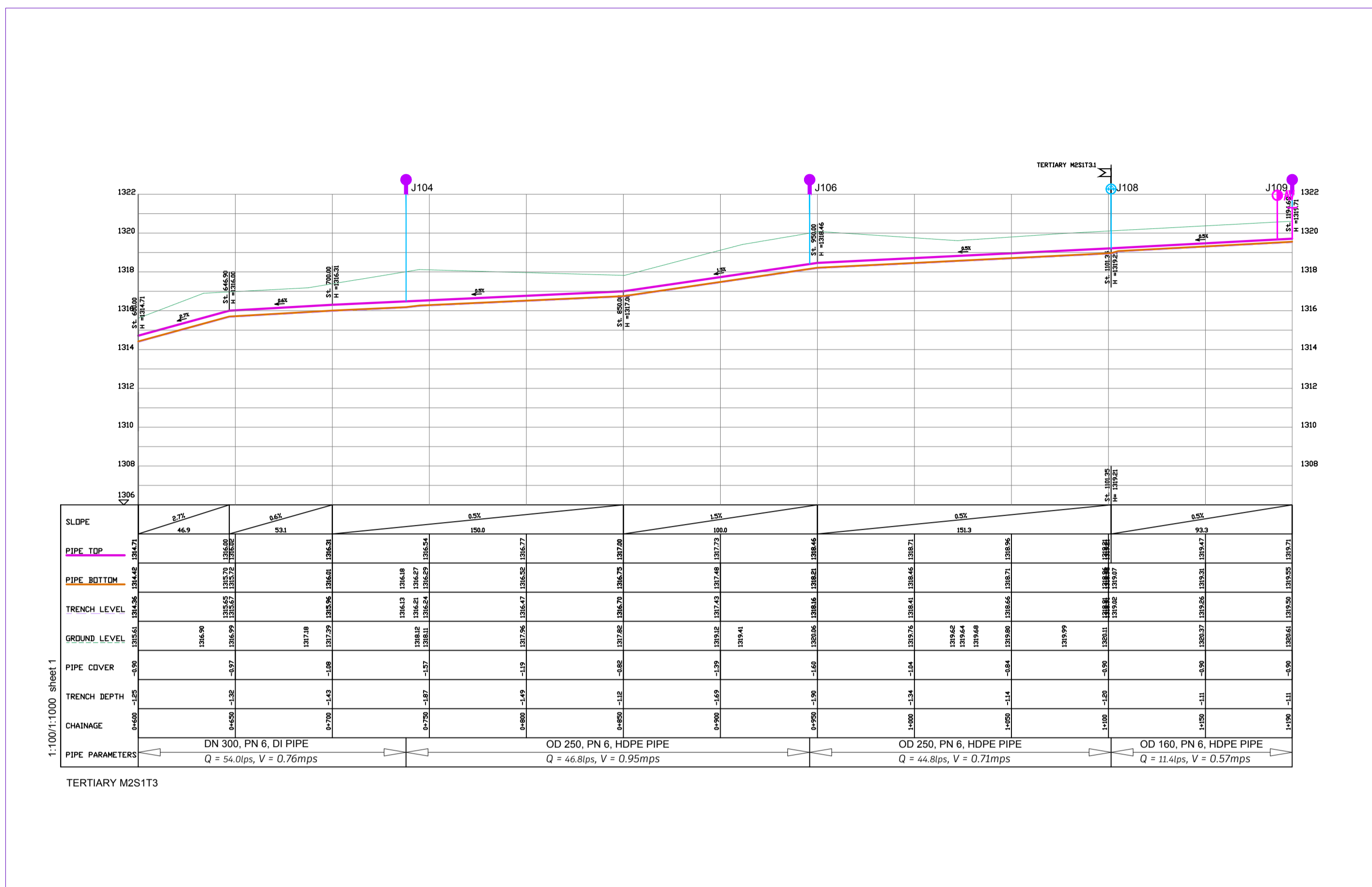
Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project: KABUYANDA IRRIGATION SCHEME

Title: PLAN PROFILE OF PIPE LINE
TERTIARY MAINS M2S1T3

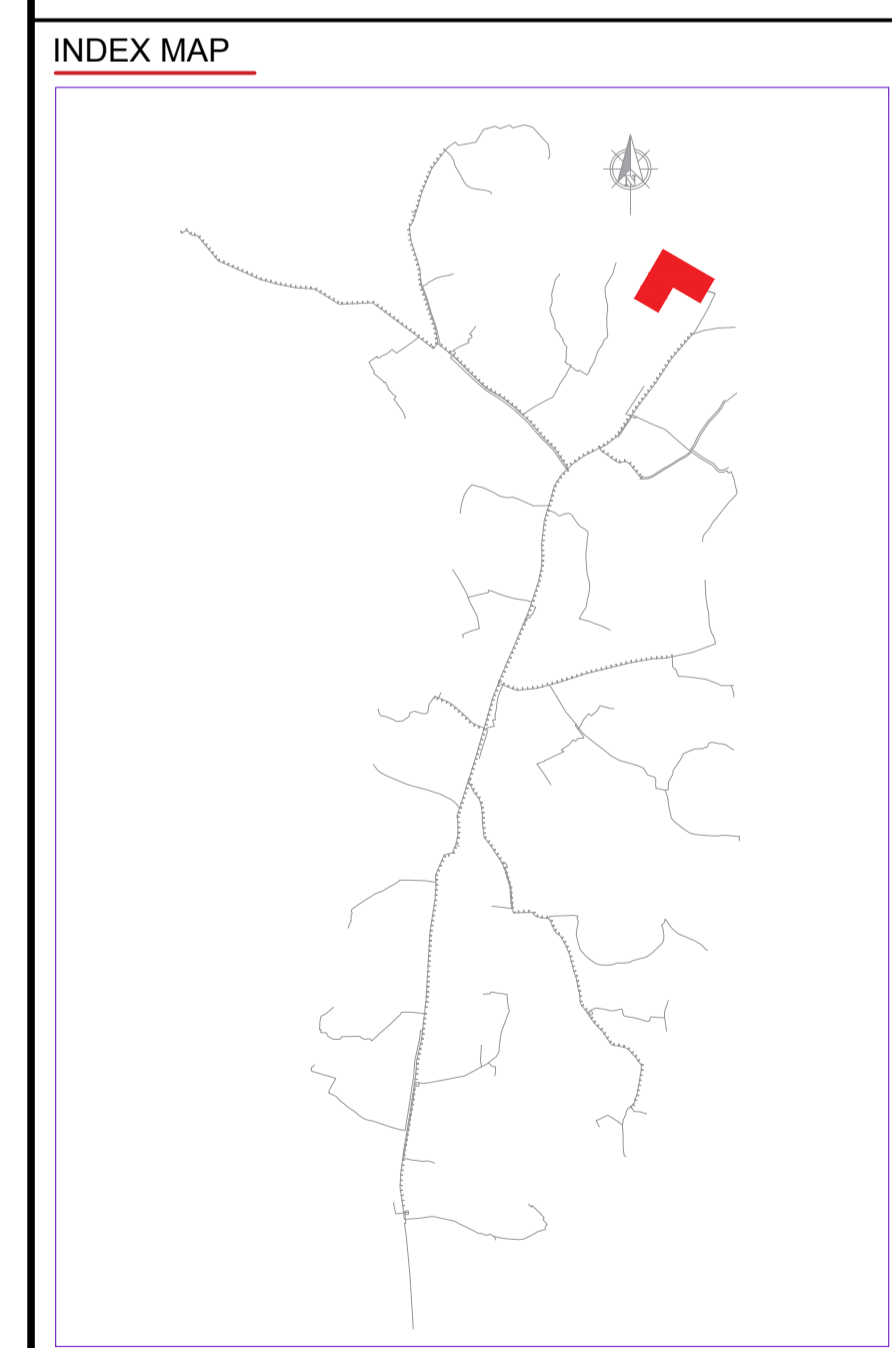
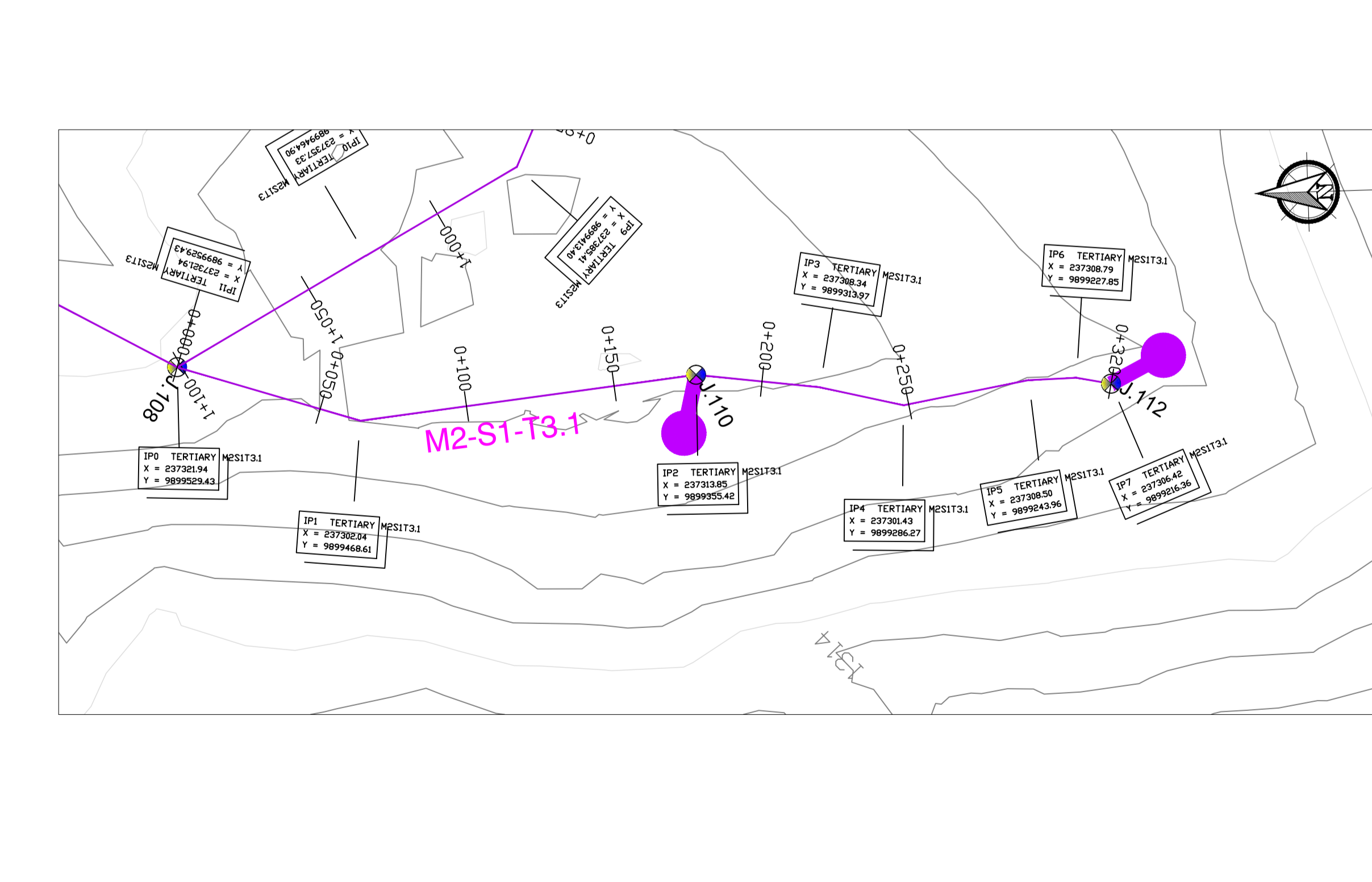
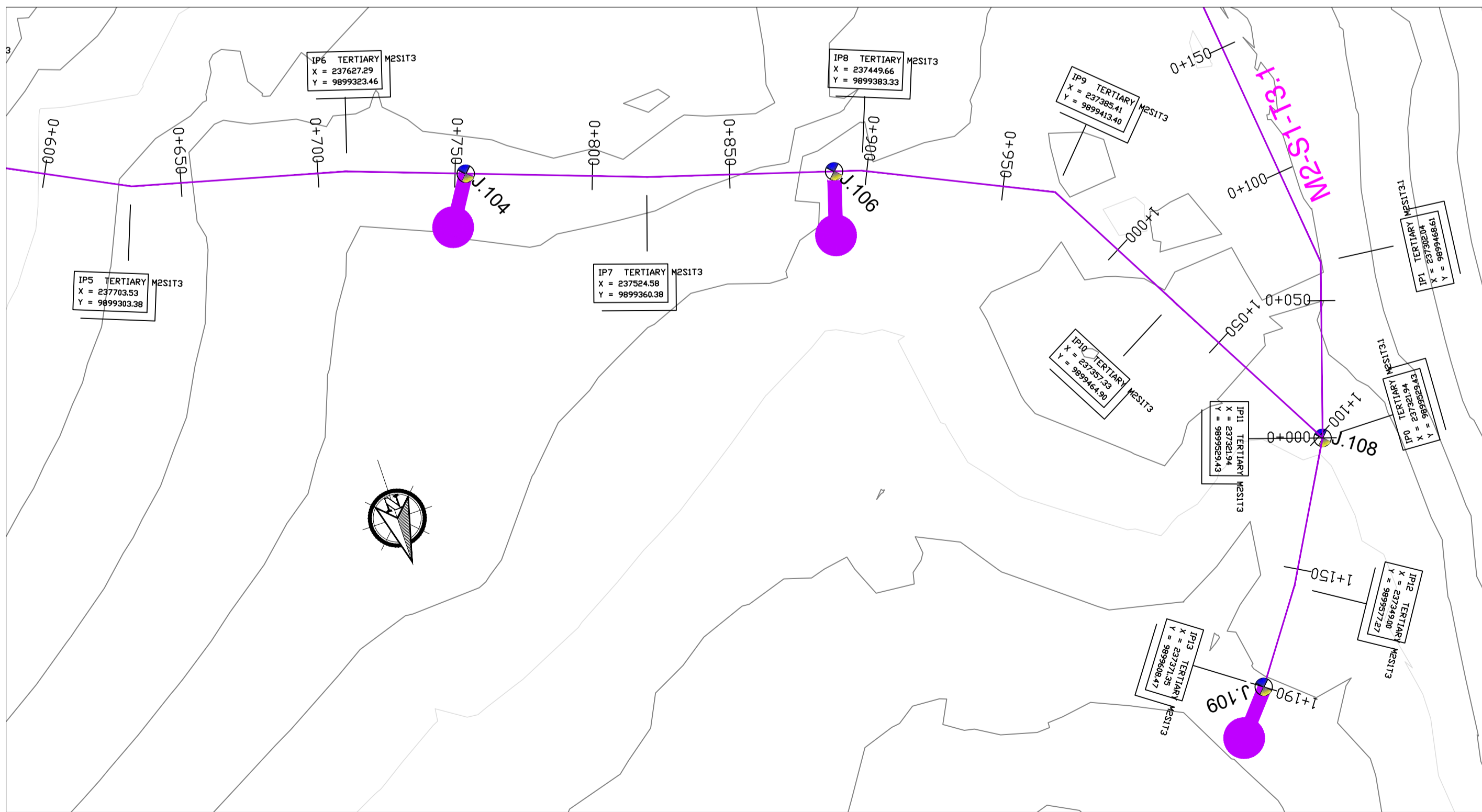
Consultants: **aarvee associates**
architects engineers consultants pvt ltd
Rwanda Road, Shrikrishna Colony Main Rd., Hyderabad 50, India
Tel: +91-40-33791933 Fax: +91-40-23791977
e-mail: irrigation@aarvee.net, web: www.aarvee.net



LEGEND

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- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
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- PIPE CROSS-JUNCTION On Profile View
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Vertical 1 : 100

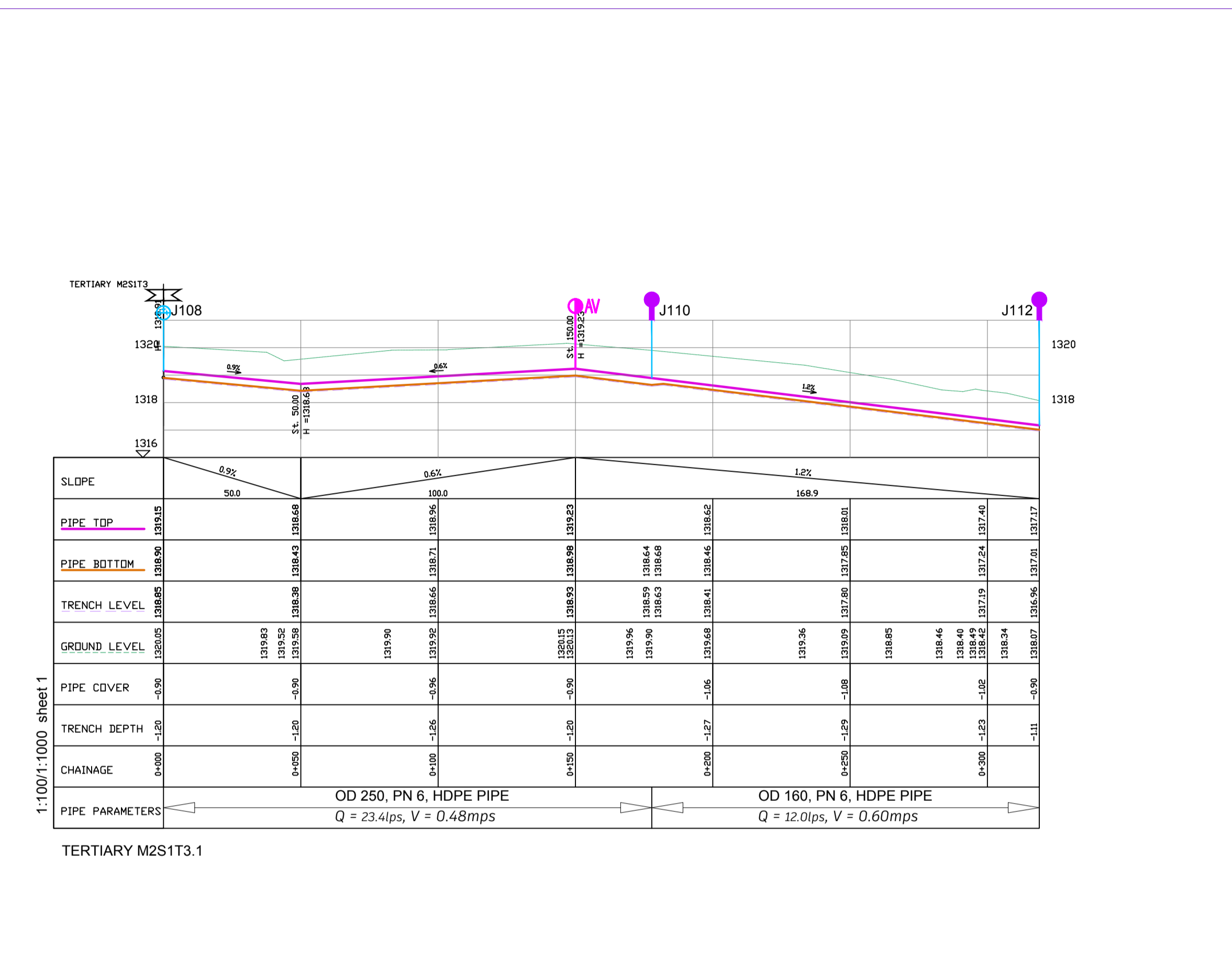
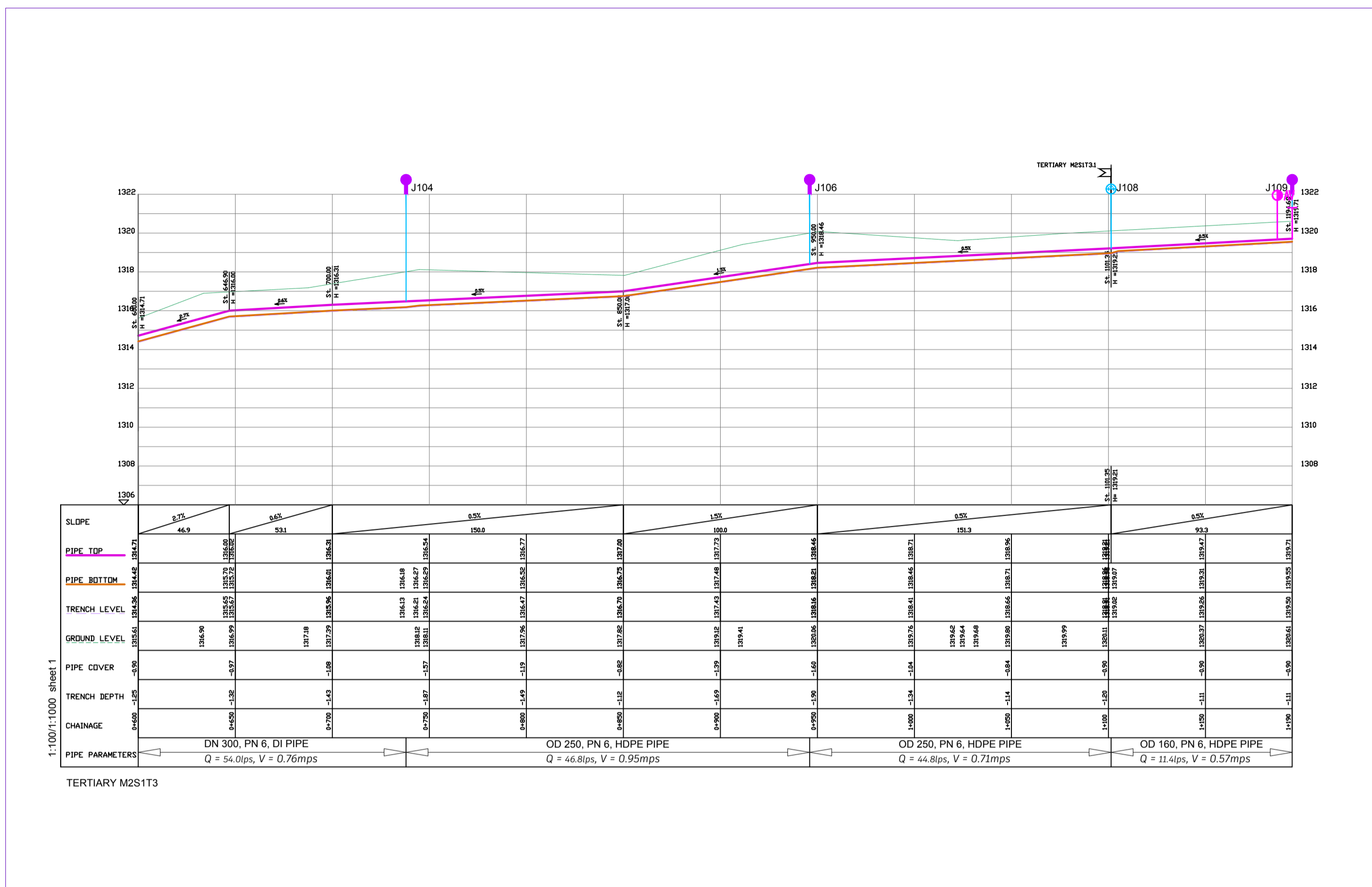
Client: **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE
TERTIARY MAINS M2S1T3 AND M2S1T3.1**

Consultants: **aarvee associates**
aarchitects-engineers-consultants-pvt-ltd-6
Ravada Residency, Shivraj Colony Main Rd., Hyderabad 62, India
Tel: +91-40-3379333 Fax: +91-40-3379377
e-mail: irrigation@aarvee.net web: www.aarvee.net

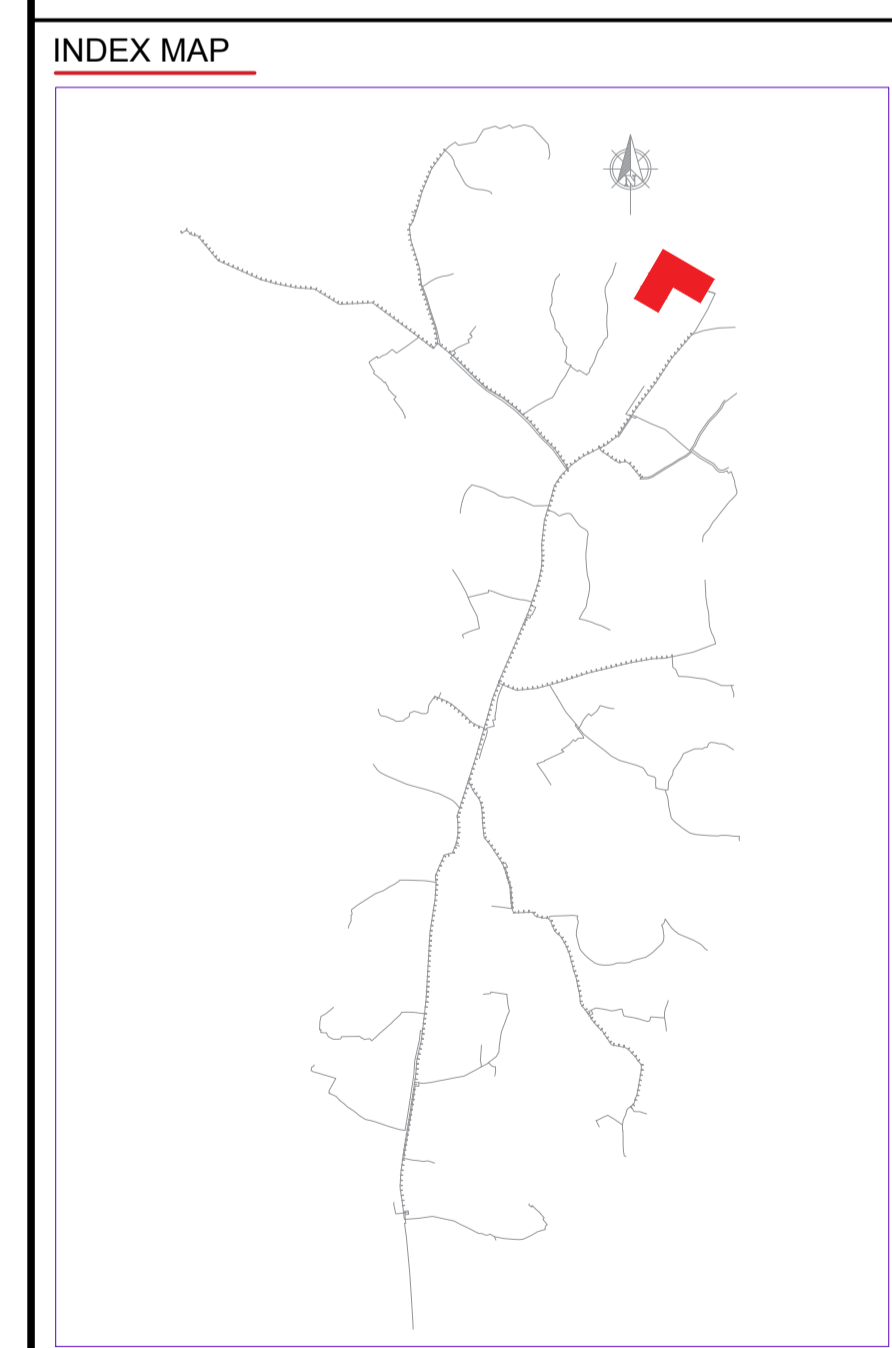
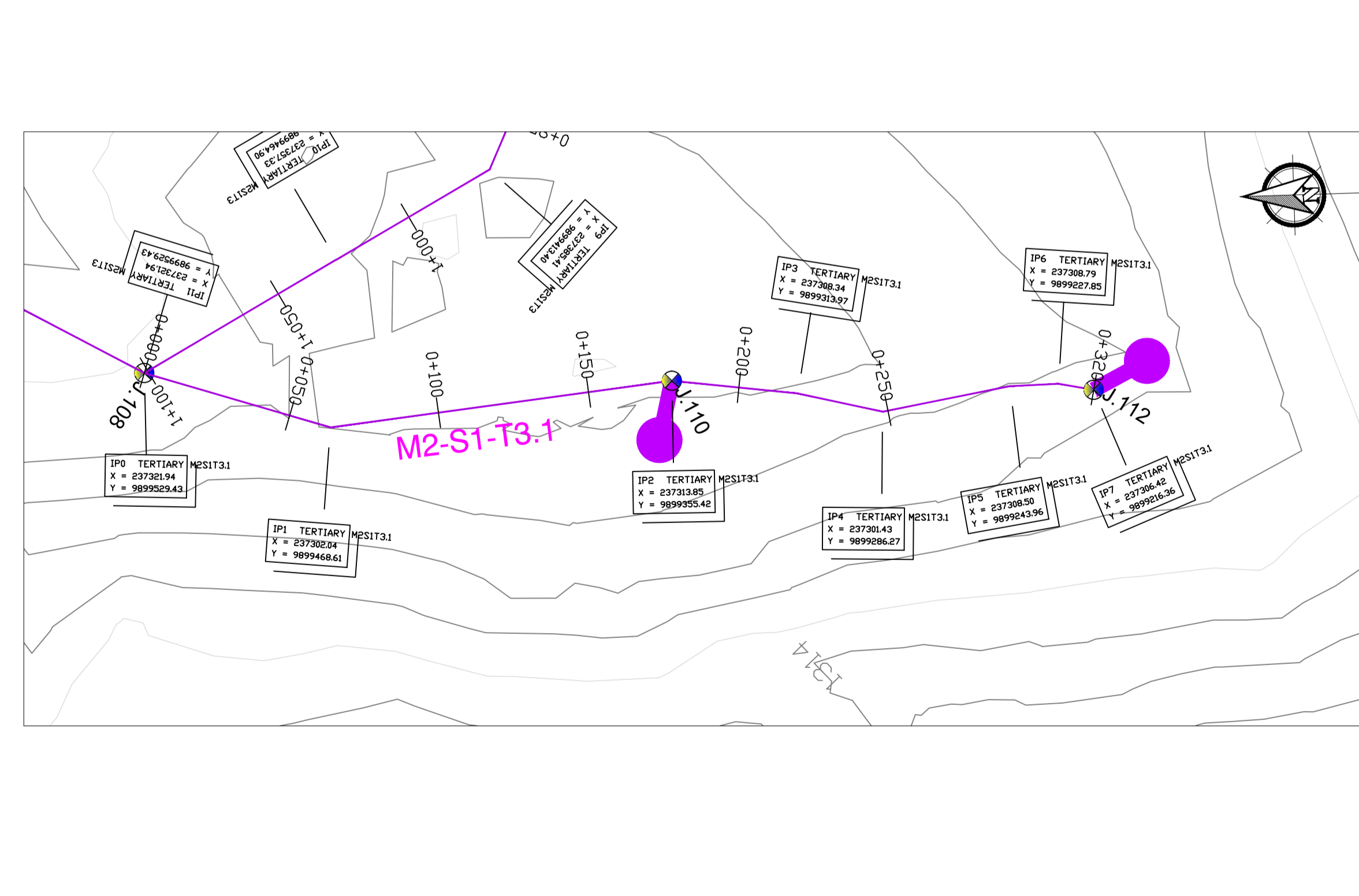
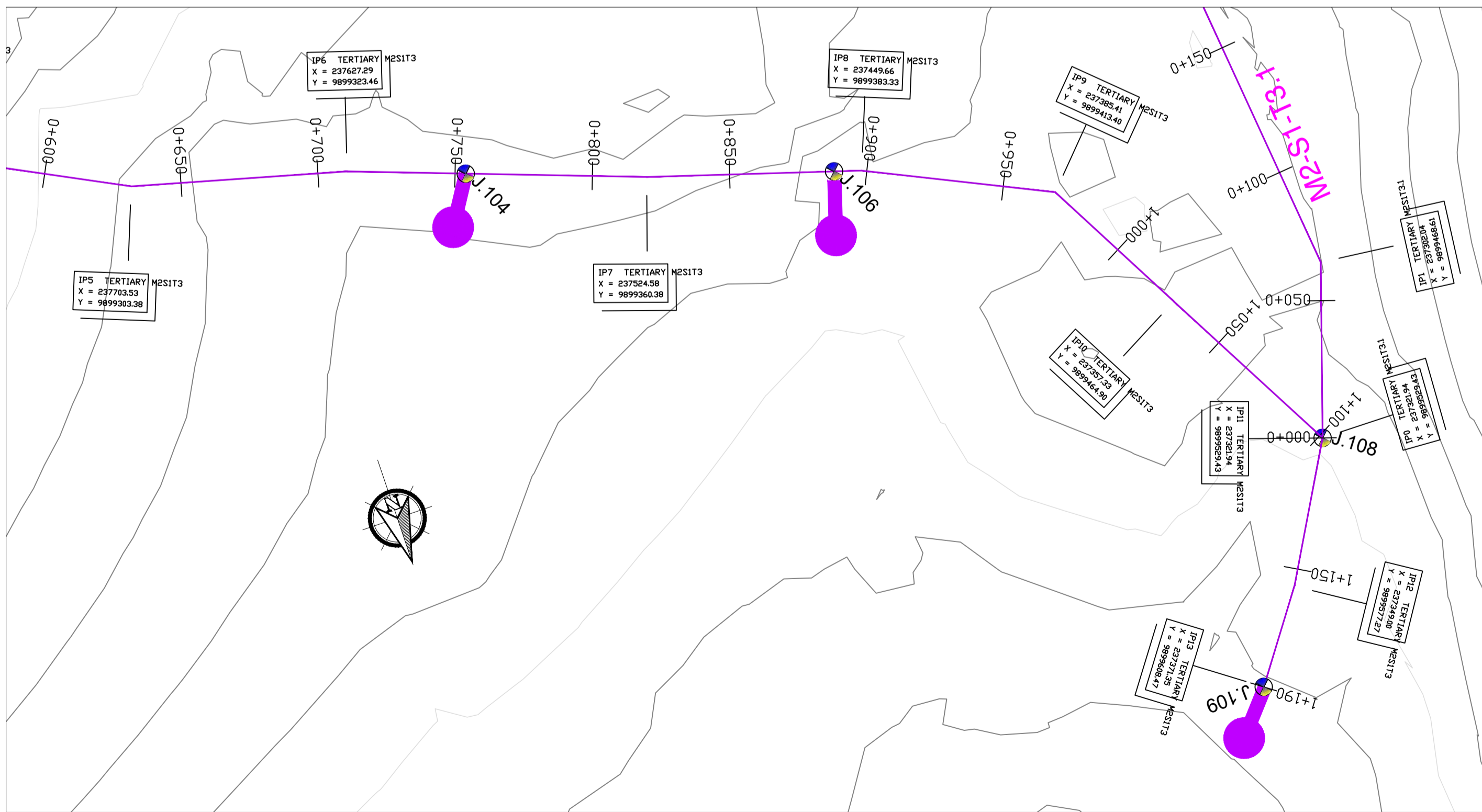
DRG. NO/MWE-KIS-NET-PPM2S1T3-02 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- ANTI-SURGE VALVE On Profile View
- ANTI-SURGE VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

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Vertical 1 : 100

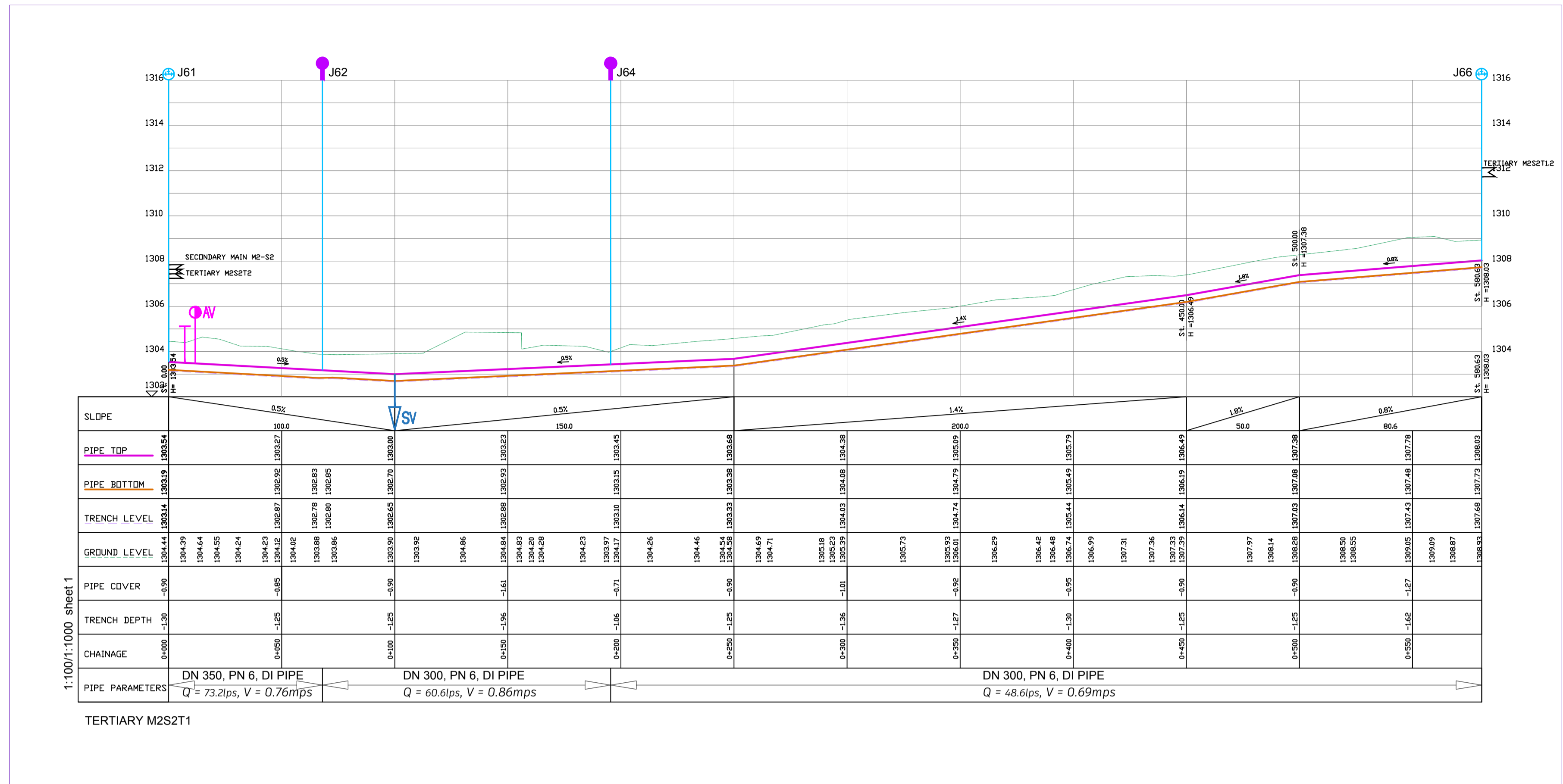
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M2S1T3 AND M2S1T3.1**

Consultants: **aarvee associates**
aarchitects-engineers-consultants-pvt-ltd-6
Ravala Residency, Shreegar Colony Main Rd., Hyderabad 62, India
Tel: +91-40-3373933 Fax: +91-402379077
e-mail: irrigation@aarvee.net, web: www.aarvee.net

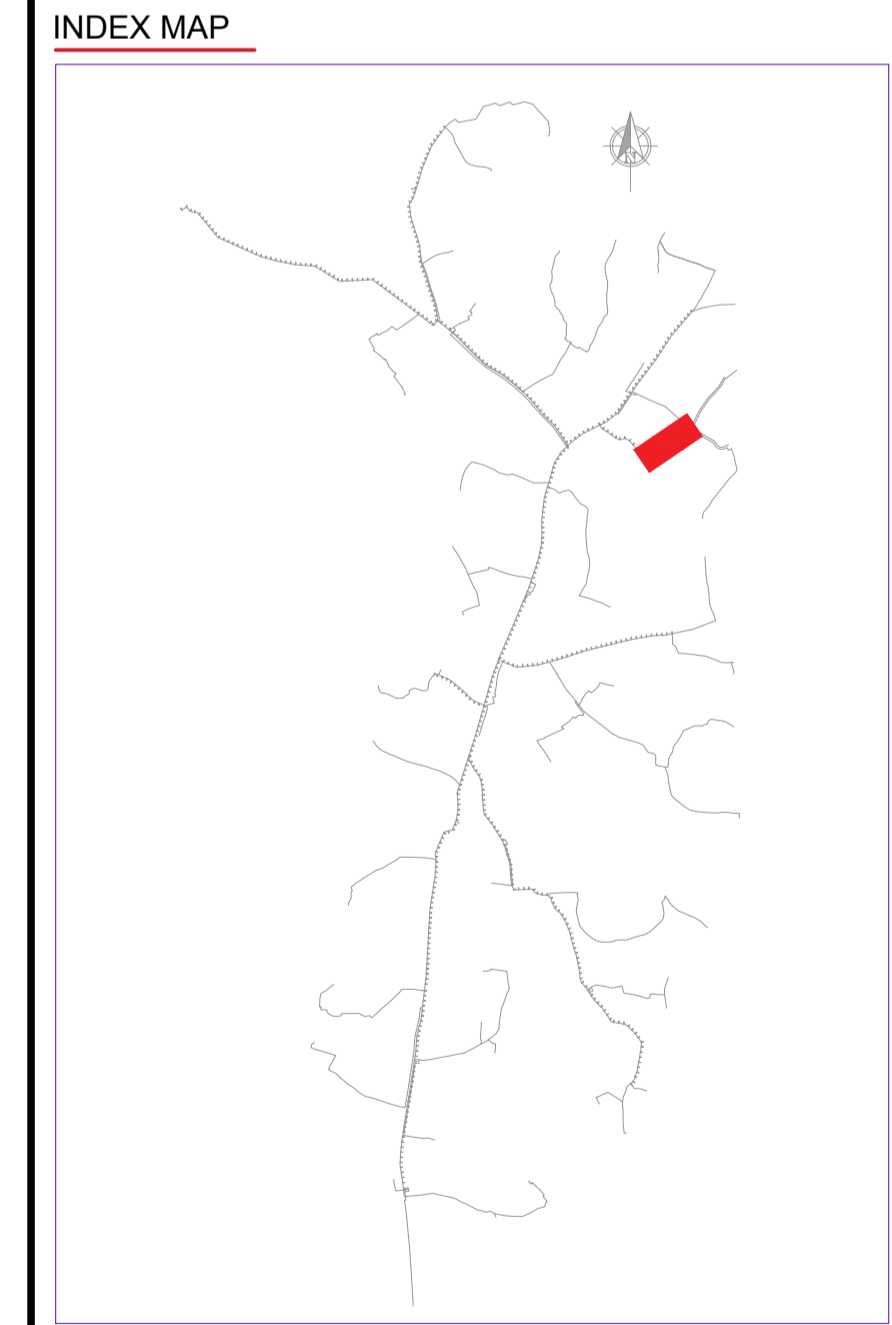
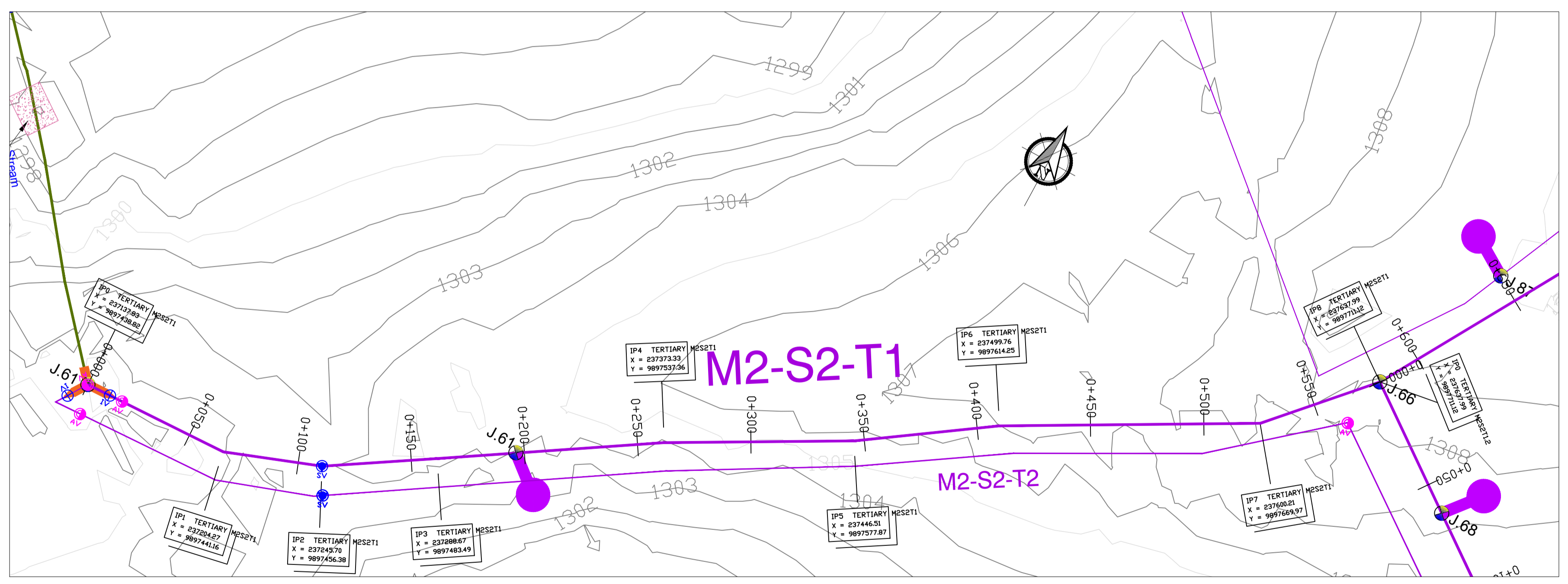
DRG. NO/MWE-KIS-NET-PPM2S1T3-02 Date APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- PIPE T-JUNCTION
- PIPE CROSS-JUNCTION
- BLOCK HYDRANT

- NOTES**
- NORMAL DEPTH OF COVER TO PIPELINE IS 0.9M
 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
 - THE CONTRACTOR TO CARRY OUT HIS OWN SITE INVESTIGATION BEFORE COMMENCING WORK TO ESTABLISH THE GROUND CONDITIONS AND LOCATION OF EXISTING SERVICES.
 - THE CONTRACTOR TO LIAISE WITH SERVICES AUTHORITIES TO ESTABLISH THE LOCATION OF EXISTING SERVICES
 - REFER TO AUXILIARY WORKS DRAWINGS FOR ANCHORAGE TO PIPELINES, AIR VALVES DETAILS, PIPE PEDESTALS, PULLEY SUPPORT, TRENCH DETAILS, VALVE CHAMBERS, WASHOUT CHAMBERS AND WATER METERS.
 - THE CONTRACTOR SHALL ALLOW FOR SEARCHING AND LOCATING FOR EXISTING DOMESTIC SERVICES TO BE RE-CONNECTED TO THE NEW MAINS.
 - ROAD OPENING LICENSES TO BE OBTAINED FROM RESPECTIVE AUTHORITIES BY THE CONTRACTOR



Scale: Horizontal 1 : 1000
Vertical 1 : 100

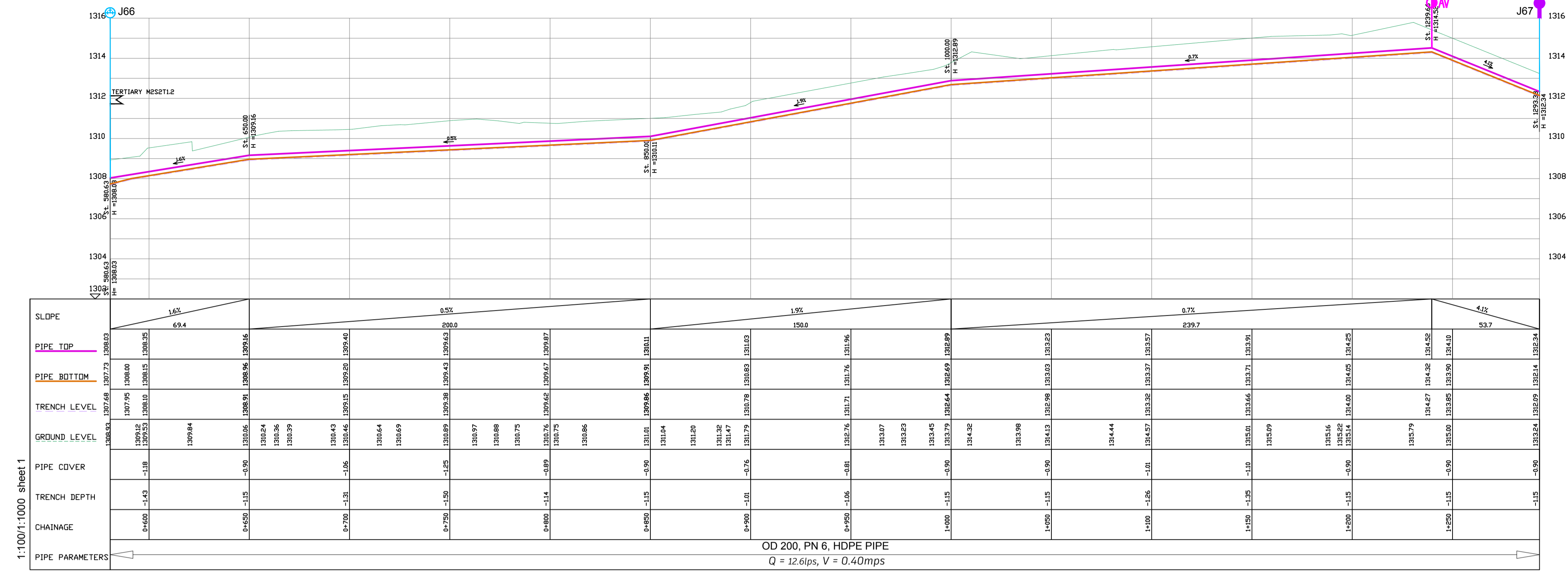
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

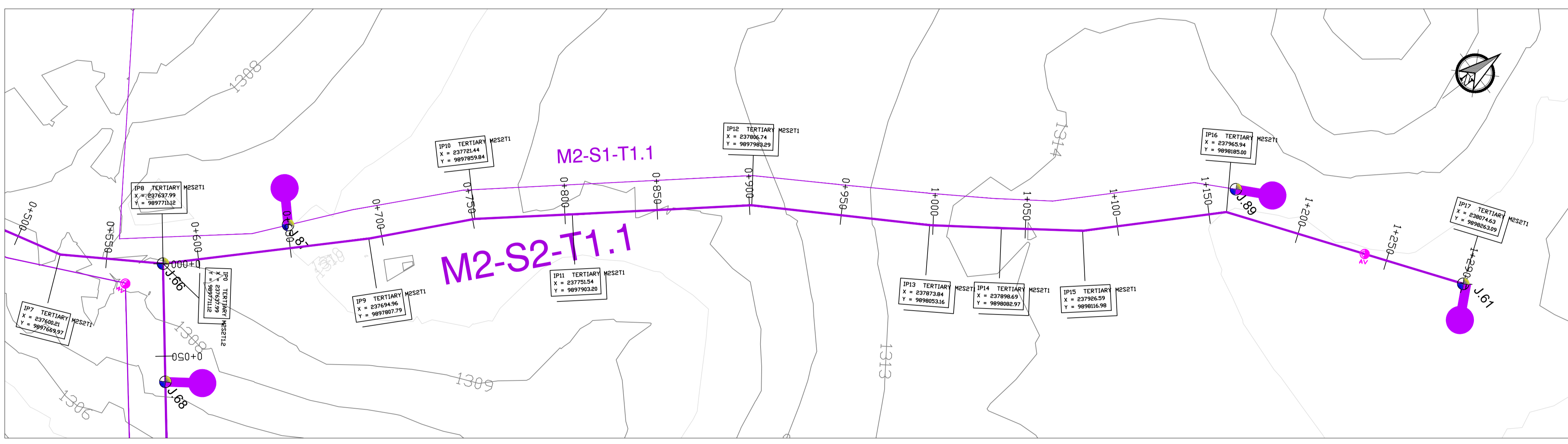
Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M2S2T1**

Consultants: **arvee associates**
arvee associates consultants Pvt. Ltd.
Ravala Residency, Shreegar Colony Main Rd., Hyderabad 52, India
Tel: +91-40-33739333 Fax: +91-40-33739377
e-mail: irrigation@arvee.net web: www.arvee.net

DRG. NO. MWE-KIS-NET-PPM2S2T1-01 Date: APR 2022



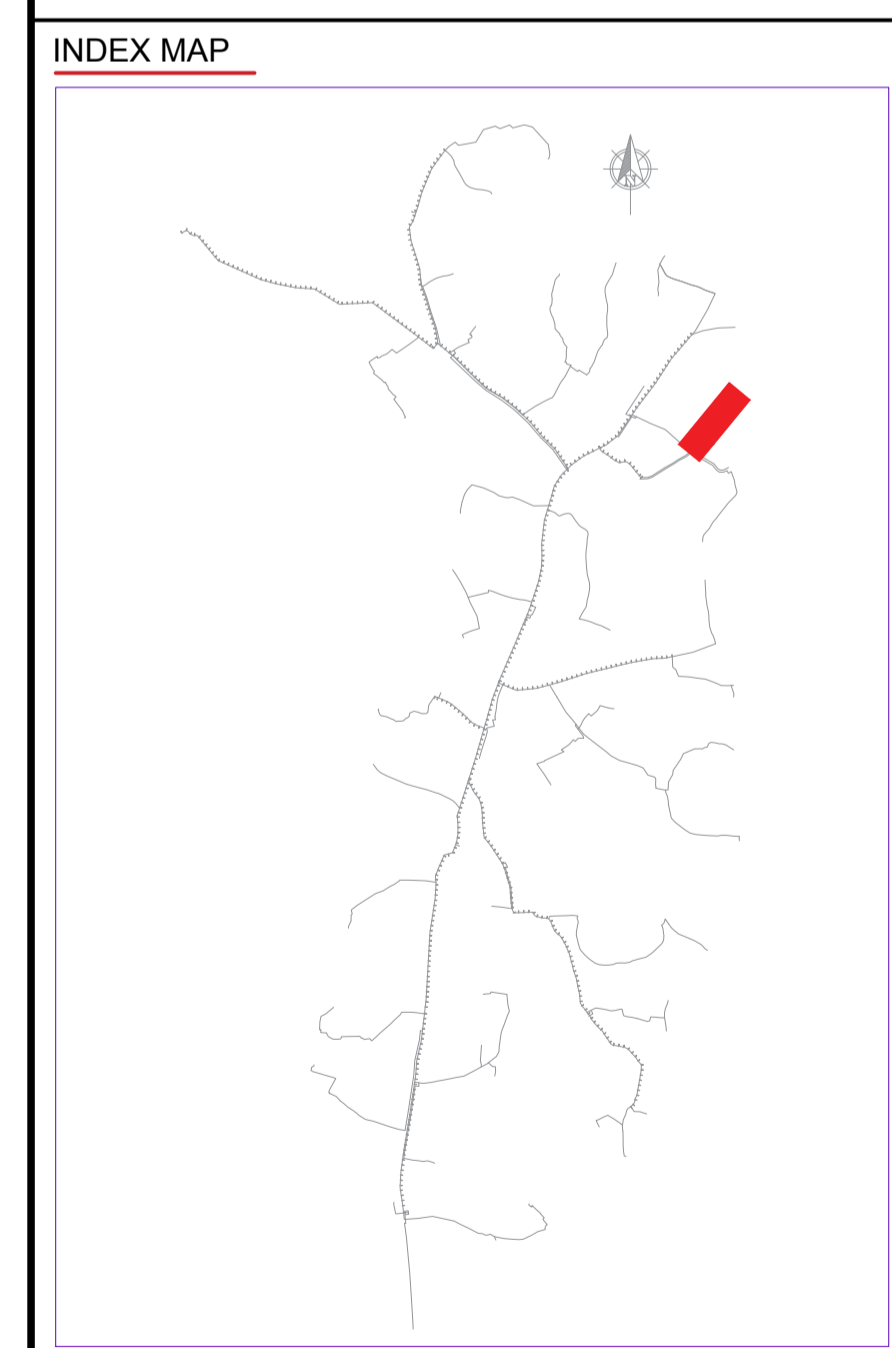
TERTIARY M2S2T1.1 (CONTINUATION TO M2S2T1)



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- PIPE T-JUNCTION
- PIPE CROSS-JUNCTION
- BLOCK HYDRANT

- NOTES**
- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH SPECIFICATION AND BILL OF QUANTITIES
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 - FOR JUNCTION DETAILS REFER TO DRAWINGS NOS. MWE-KIS-NET/JD-01 TO MWE-KIS-NET/JD-030
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

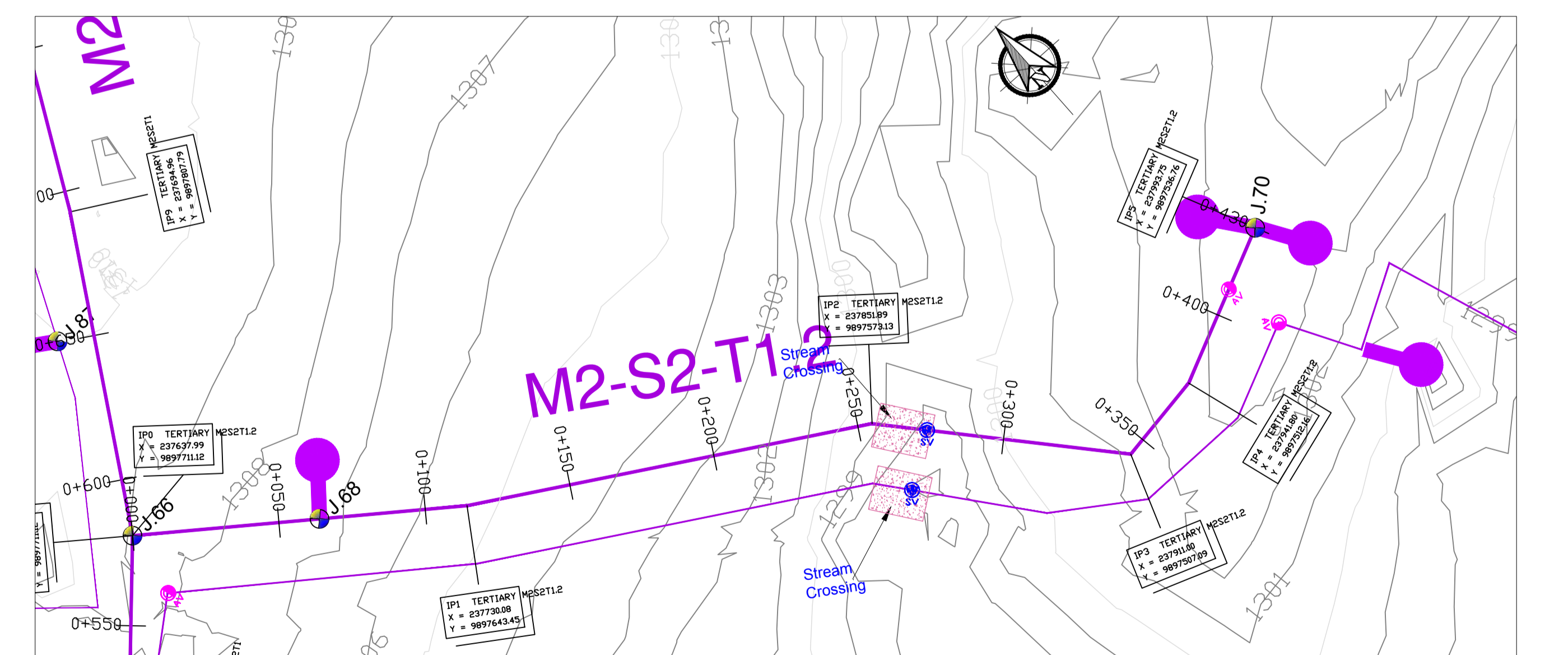
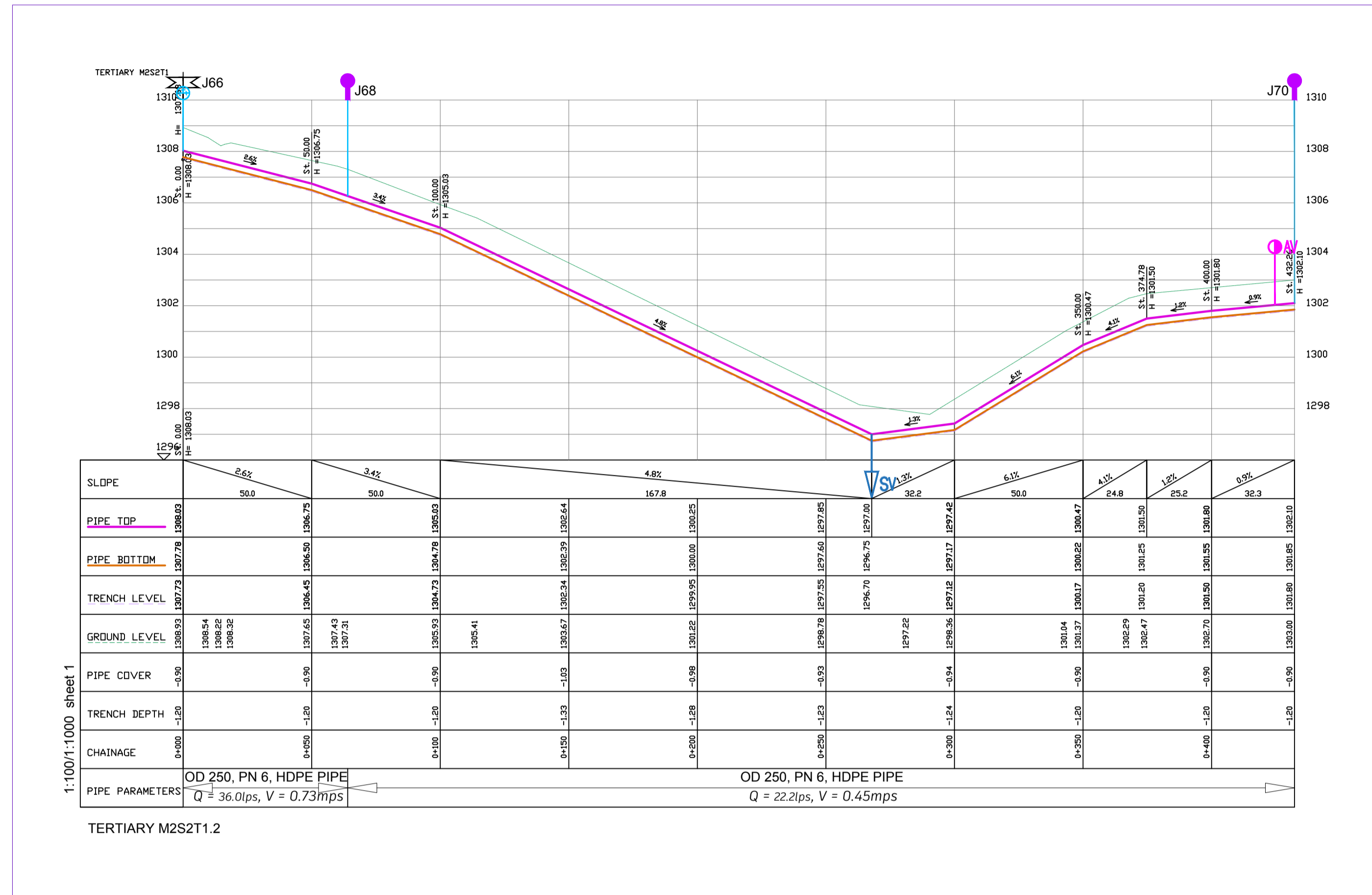
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M2S2T1.1**

Consultants: **aarvee associates**
aarchitects, engineers, consultants, civil, structural, mechanical, electrical, plumbing, fire, and safety engineers
Ravala Road, Shree Colony Main Rd., Hyderabad 50, India
Tel: +91-40-33379333 Fax: +91-40-33379077
e-mail: irrigation@aarvee.net, web: www.aarvee.net

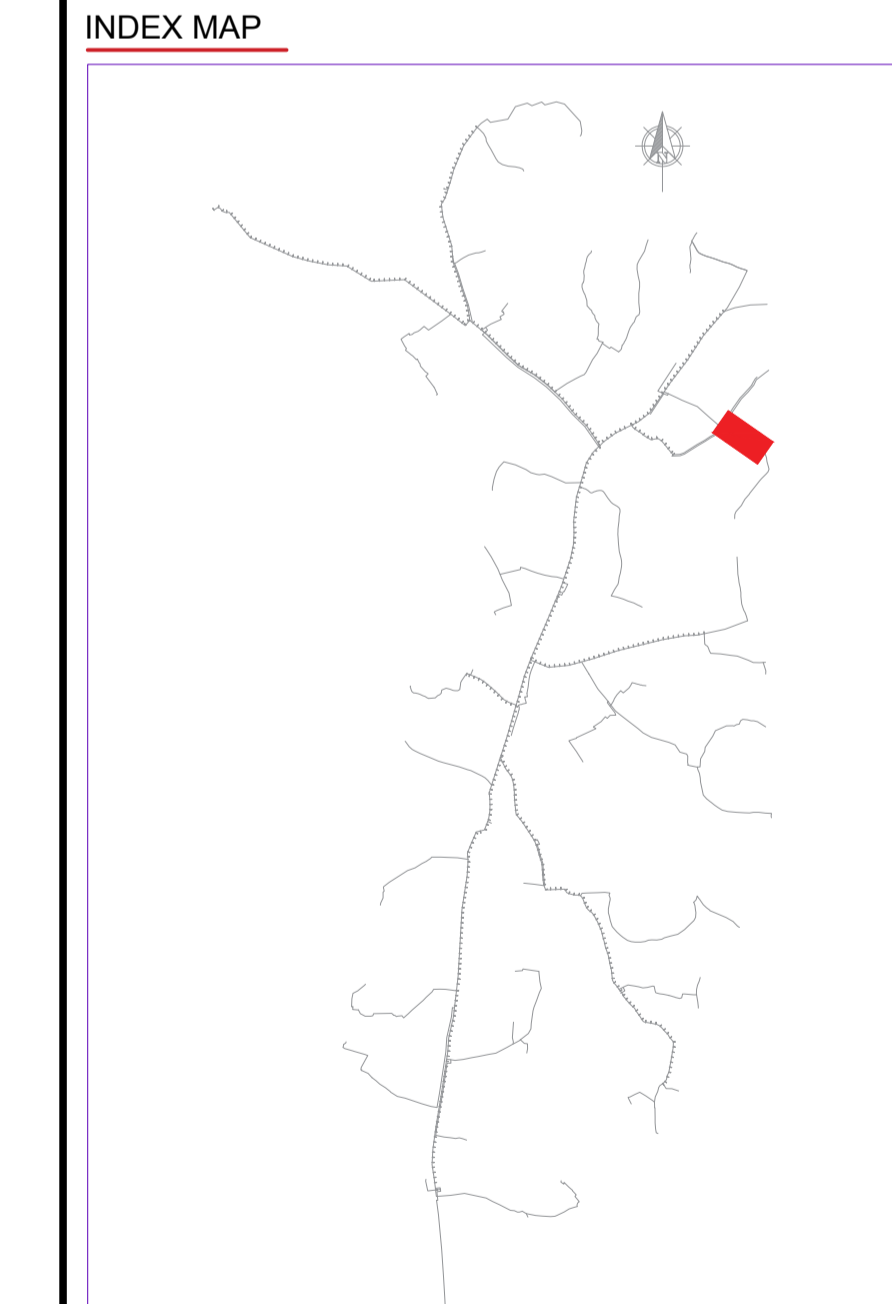
DRG. NO/MWE-KIS-NET-PPM2S2T1-02 Date: APR 2022



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE (AV)
- SCOUR VALVE (SV)
- ISOLATION VALVE
- PIPE T-JUNCTION
- PIPE CROSS-JUNCTION
- BLOCK HYDRANT

- NOTES**
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

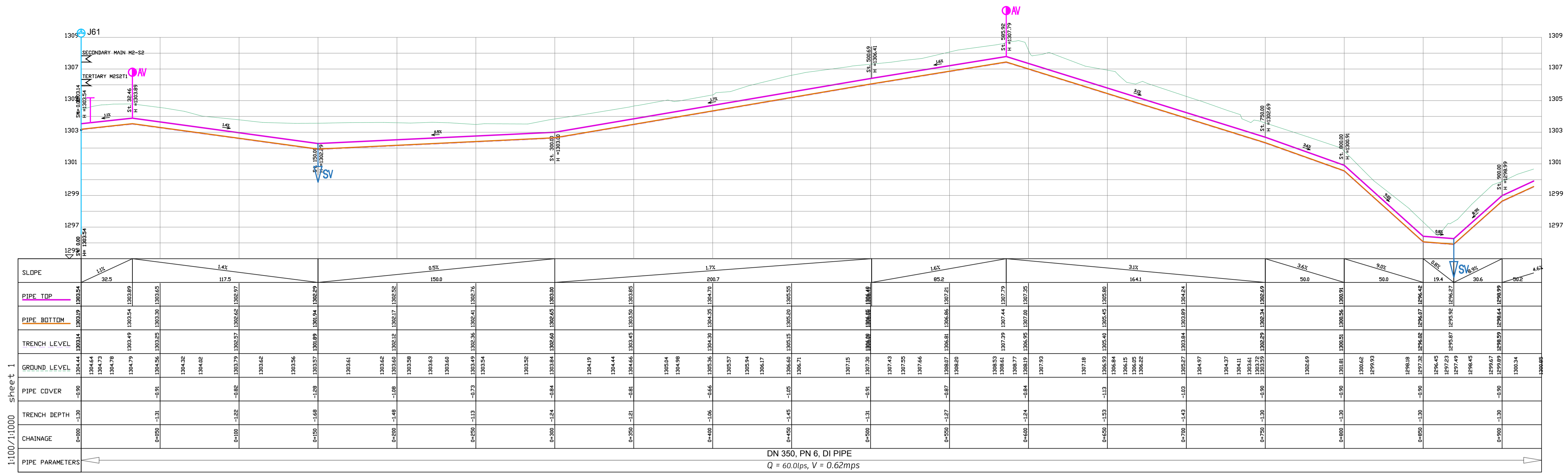
Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M2S2T1.2**

Consultants: **aarvee associates**
Architects, Engineers, Consultants Pvt. Ltd.
Ravula Residency, Shreejaya Colony Main Rd., Hyderabad 62, India
Tel: +91-40-33739333 Fax: +91-40-33739377
e-mail: irrigation@aarvee.net, web: www.aarvee.net

1:100/1:1000 sheet 1

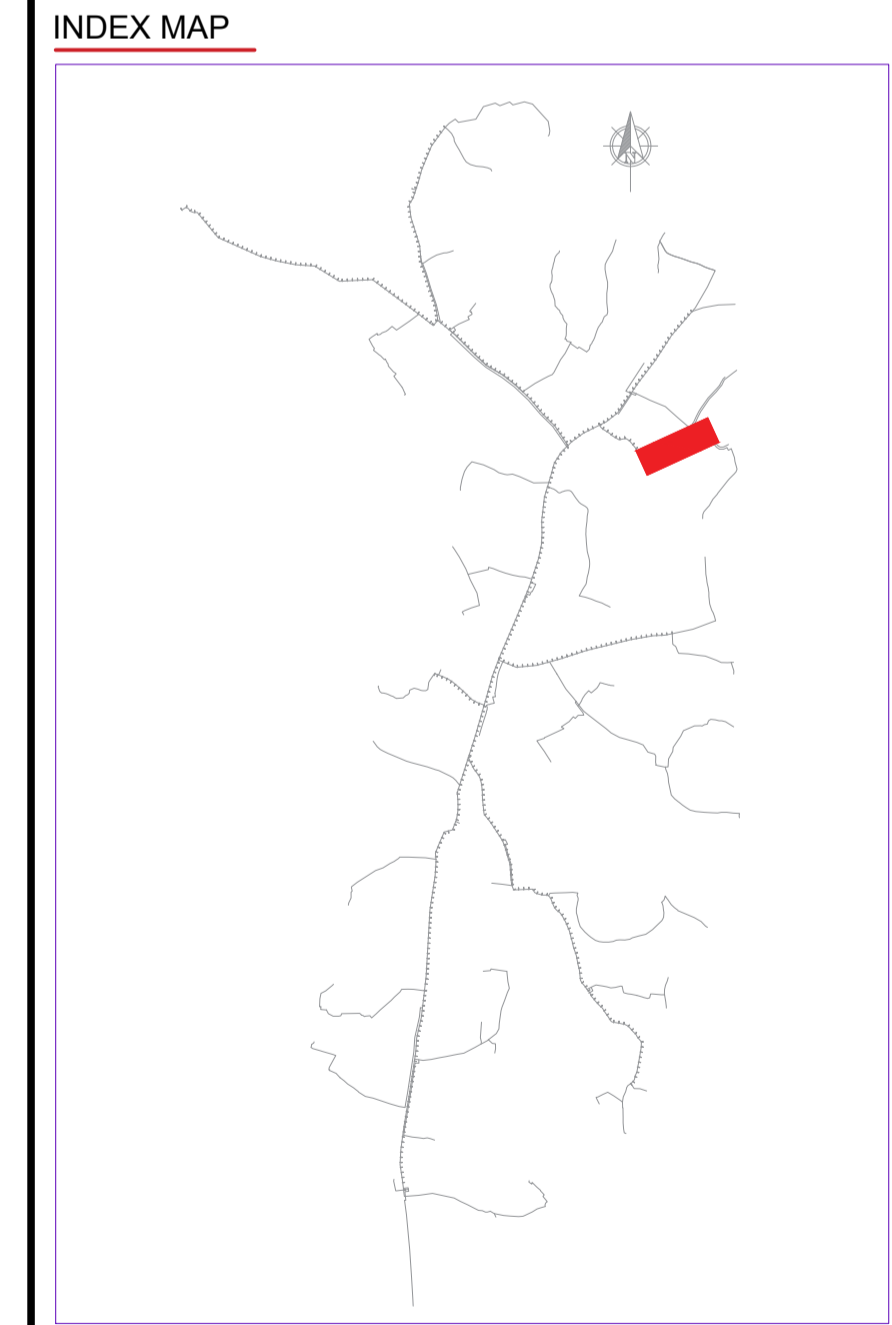
TERTIARY M2S2T2



LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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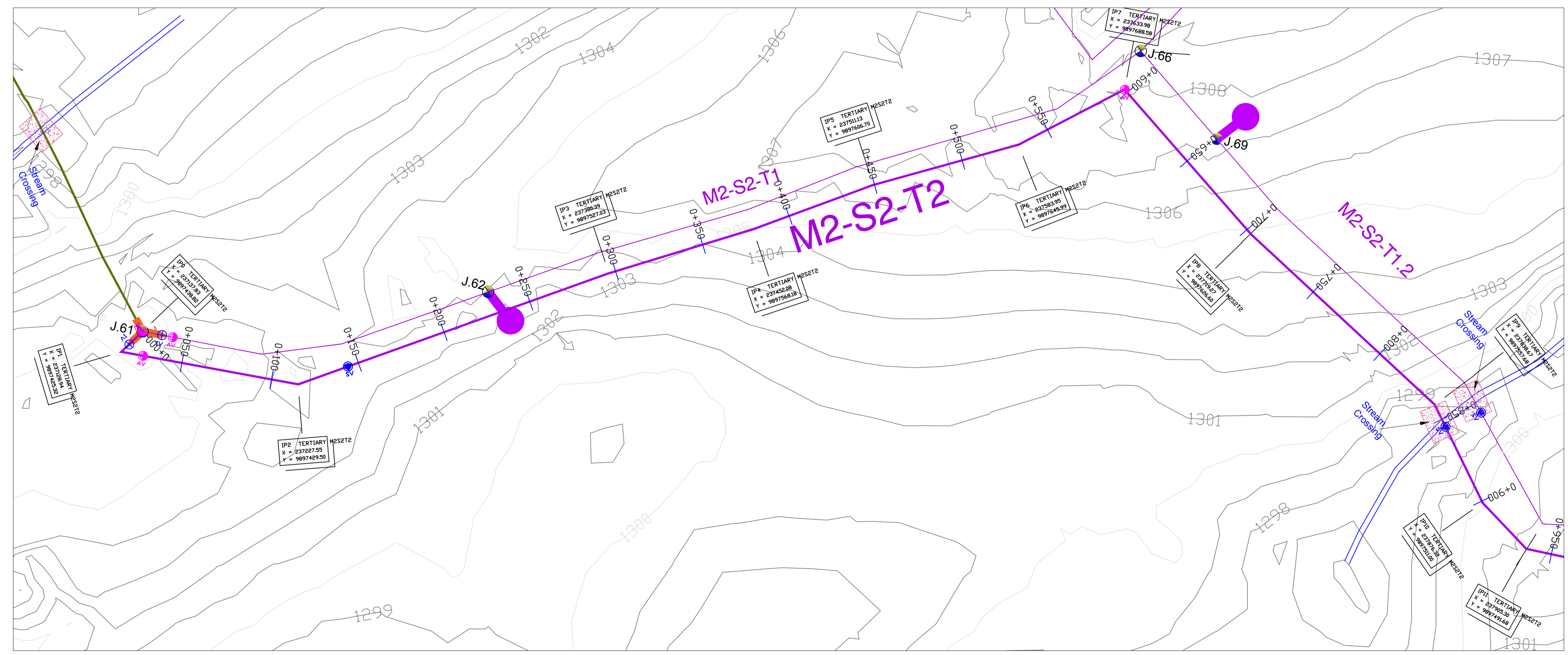
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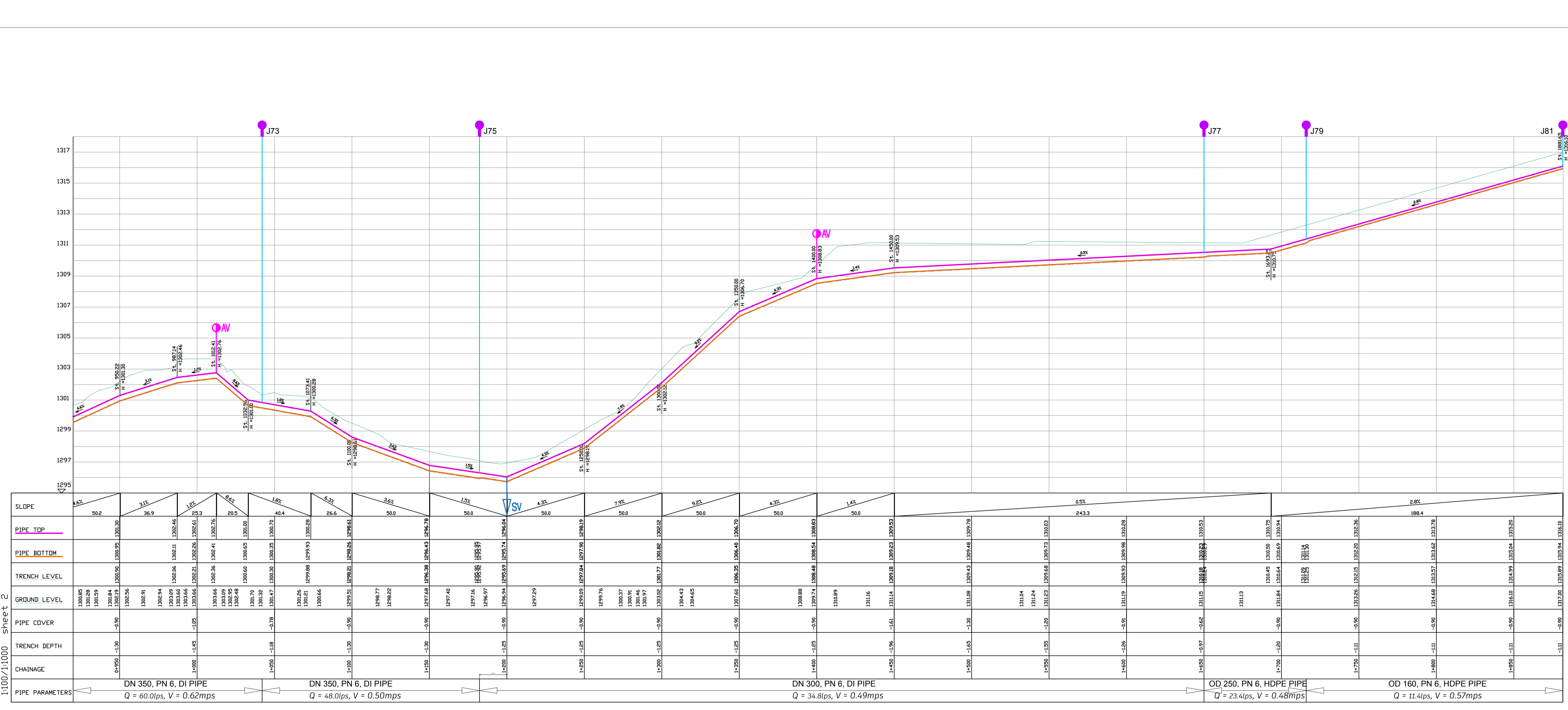
Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M2S2T2**

Consultants: **aarvee associates**
Ravula Residency, Shiragar Colony Main Rd., Hydrobad 62, India
Tel: +91-48-2337933 Fax: +91-482337937
e-mail: irrigation@aarvee.net web: www.aarvee.net





SLOPE	0.6%	3.1%	1.2%	0.6%	1.8%	6.3%	3.6%	1.5%	4.3%	1.4%	0.5%	2.8%				
PIPE TOP	1300.00	1300.95	1301.20	1301.45	1301.70	1302.00	1302.30	1302.60	1302.90	1303.20	1303.50	1303.80				
PIPE BOTTOM	1299.40	1299.65	1299.90	1300.15	1300.40	1300.70	1301.00	1301.30	1301.60	1301.90	1302.20	1302.50				
TRENCH LEVEL	1299.40	1299.65	1299.90	1300.15	1300.40	1300.70	1301.00	1301.30	1301.60	1301.90	1302.20	1302.50				
GROUND LEVEL	1300.00	1300.95	1301.20	1301.45	1301.70	1302.00	1302.30	1302.60	1302.90	1303.20	1303.50	1303.80				
PIPE COVER	-0.00	-0.05	-0.10	-0.15	-0.20	-0.30	-0.40	-0.50	-0.60	-0.70	-0.80	-0.90				
TRENCH DEPTH	-0.00	-0.05	-0.10	-0.15	-0.20	-0.30	-0.40	-0.50	-0.60	-0.70	-0.80	-0.90				
CHAINAGE	14950	14955	14960	14965	14970	14975	14980	14985	14990	14995	15000	15005				
PIPE PARAMETERS	DN 350, PN 6, DI PIPE Q = 60.0lps, V = 0.62mps				DN 350, PN 6, DI PIPE Q = 48.0lps, V = 0.50mps				DN 300, PN 6, DI PIPE Q = 34.8lps, V = 0.49mps				OD 250, PN 6, HDPE PIPE Q = 23.4lps, V = 0.48mps		OD 160, PN 6, HDPE PIPE Q = 11.4lps, V = 0.57mps	

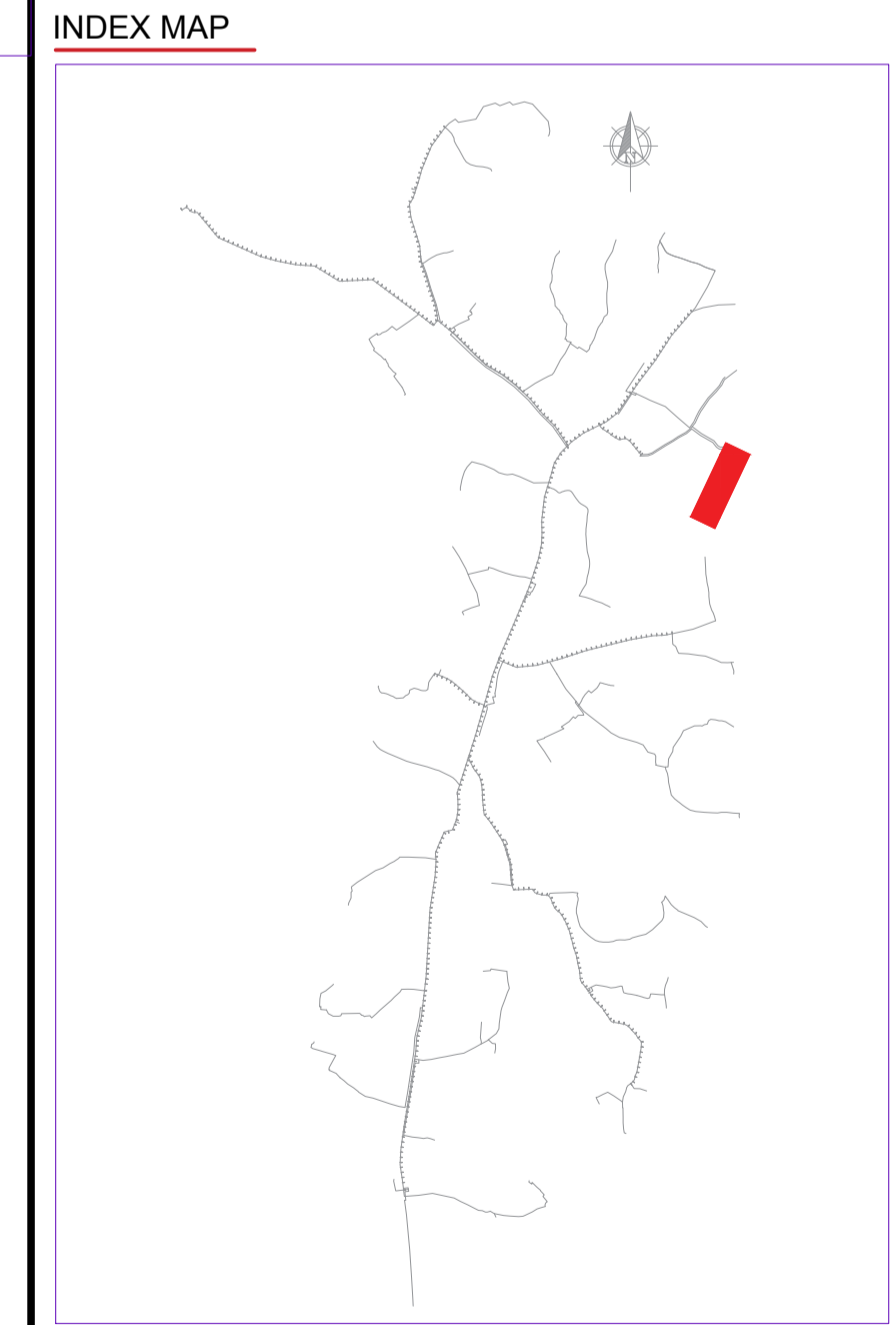
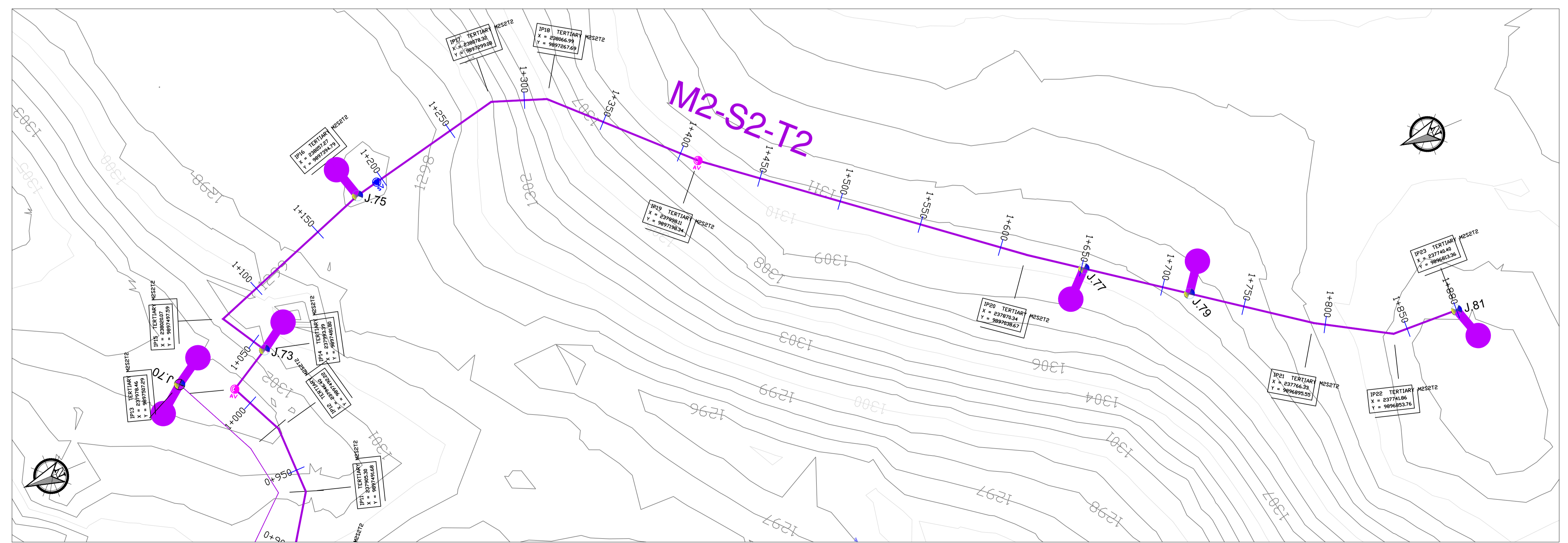
1:100/1:1000 sheet 2

TERTIARY M2S2T2

LEGEND

- GROUND LEVEL
- PIPE TOP
- PIPE BOTTOM
- TRENCH BOTTOM
- JUNCTION LOCATIONS
- AIR VALVE On Profile View
- AIR VALVE On Plan View
- SCOUR VALVE On Profile View
- SCOUR VALVE On Plan View
- ISOLATION VALVE On Profile View
- ISOLATION VALVE On Plan View
- PIPE T-JUNCTION On Profile View
- PIPE CROSS-JUNCTION On Profile View
- BLOCK HYDRANT

- NOTES**
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Scale: Horizontal 1 : 1000
Vertical 1 : 100

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **PLAN PROFILE OF PIPE LINE TERTIARY MAINS M2S2T2**

Consultants: **aarvee associates**
aarvee associates
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e-mail: irrigation@aarvee.net web: www.aarvee.net

DRG. NO/MWE-KIS-NET-PPM2S2T2-02 Date: APR 2022