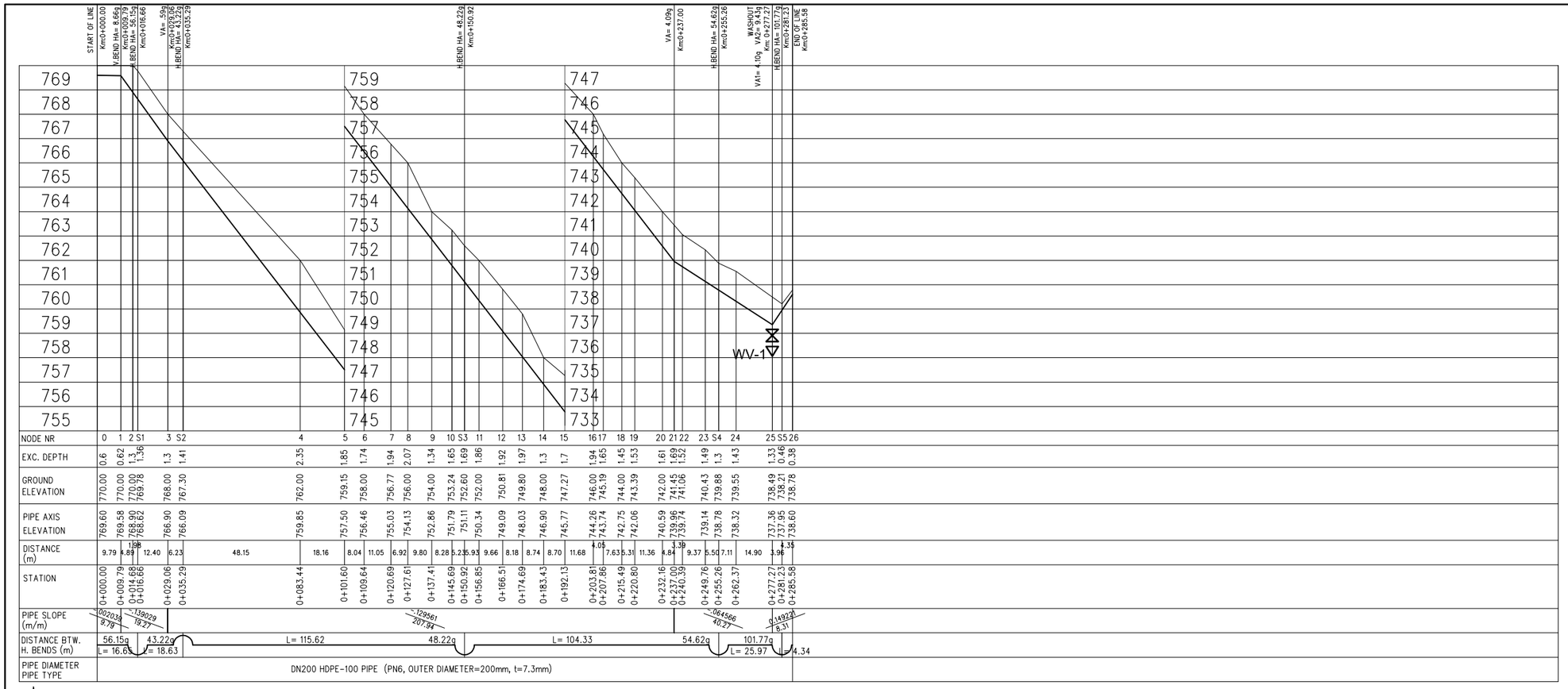
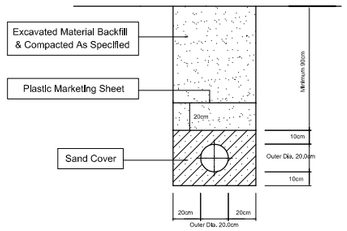


LEGEND

- AIR VALVE
- WASHOUT VALVE
- LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
HA = HORIZONTAL ANGLE (in grad)
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

TYPICAL TRENCH SECTION
200mm HDPE-100

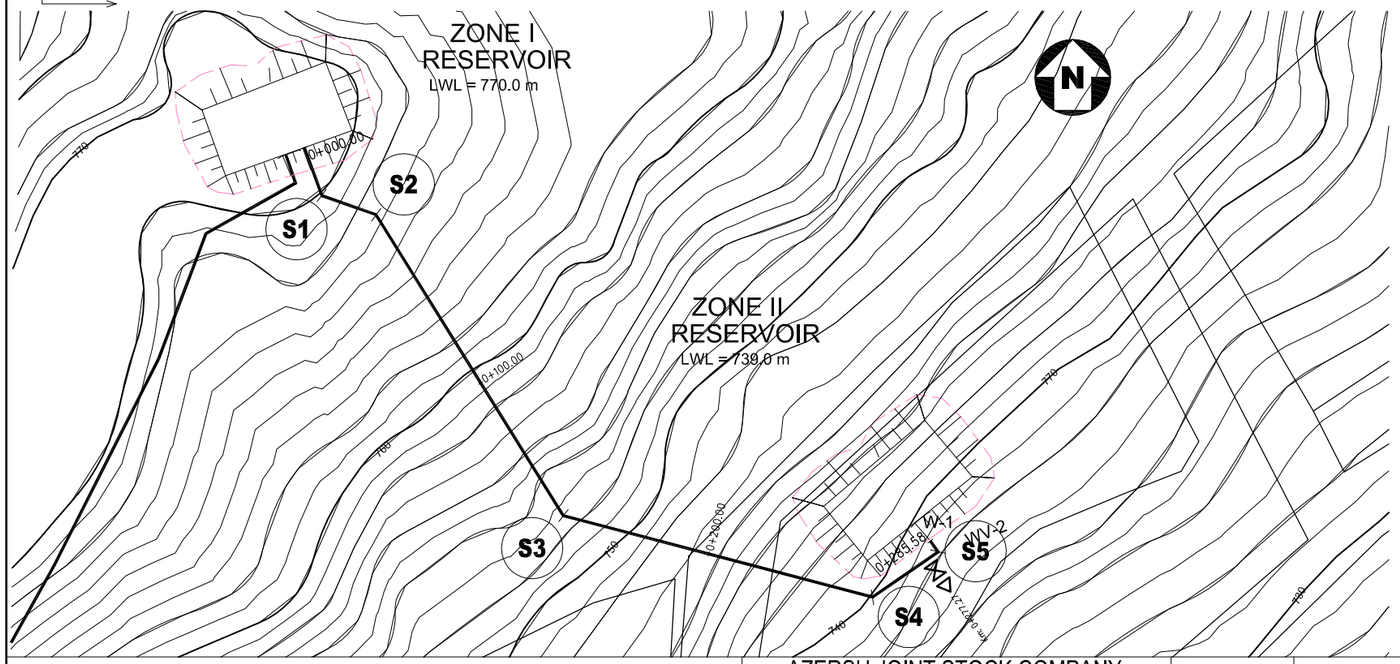


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
0	4590871.17	283746.32	0+000.00		
S1	4590858.78	283757.46	0+016.66	16.66	-56.15
S2	4590859.60	283776.07	0+035.29	18.63	43.22
S3	4590791.00	283869.16	0+150.92	115.63	-48.22
S4	4590803.73	283972.72	0+255.26	104.34	-54.62
S5	4590825.31	283987.18	0+281.23	25.98	-101.77
26	4590827.63	283983.50	0+285.58	4.35	

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN

AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan

Japan International Cooperation Agency (JICA), Japan

Site : Gusar

Facility : Plan & Profile of TL from Zone I Service Reservoir to Zone II Service Reservoir

Title : Between KM: 0+000.00 - 0+285.58

Scale of Drawing : 1/1000

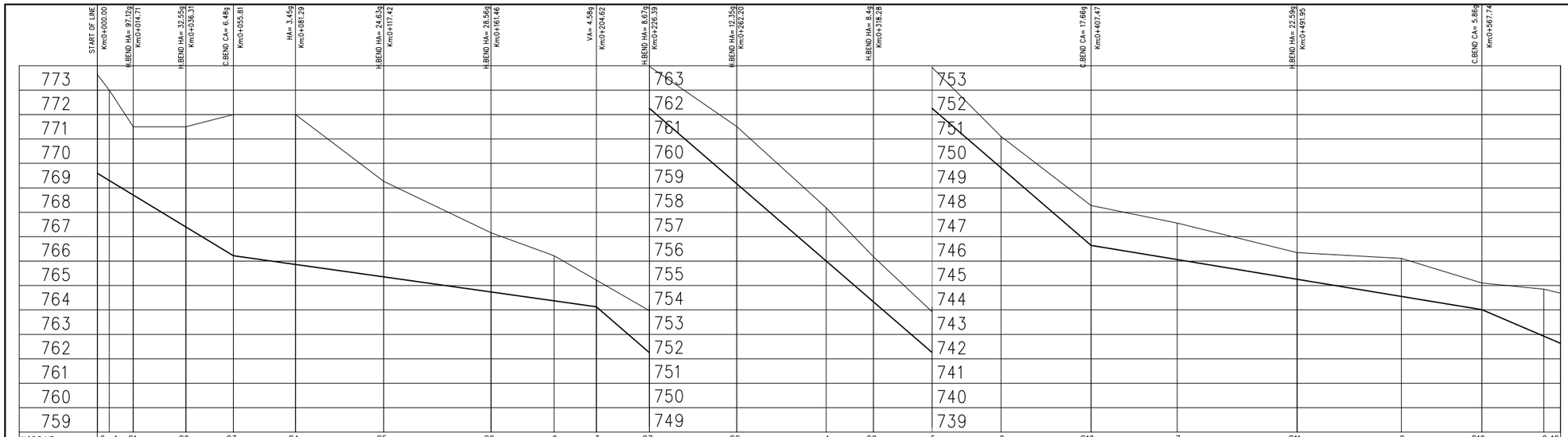
Original Size of Paper : A1

Category - City : SU-GUS-

Facility Code - Number : 09-03(01)

Date : March 2010

Revision Number : Rev.0



NODE NR	0	1	S1	S2	S3	S4	S5	S6	2	3	S7	S8	4	S9	5	6	S10	7	S11	8	S12	9	10
EXC. DEPTH	4.23	3.89	2.98	4.29	5.97	6.33	4.11	2.61	2.04	1.28	1.91	2.53	2.37	2.04	1.86	1.47	1.83	1.69	1.29	1.75	1.28	2.12	2.25
GROUND ELEVATION	773.64	773.00	771.50	771.50	772.00	772.00	769.27	767.16	766.22	765.22	763.97	761.51	758.18	756.18	753.93	751.10	748.28	747.56	746.35	746.11	745.10	744.85	744.69
PIPE AXIS ELEVATION	769.60	769.30	768.71	767.40	766.22	765.86	765.35	764.74	764.37	764.13	762.25	759.17	756.00	754.33	752.26	749.82	746.64	746.06	745.25	744.55	744.01	742.92	742.63

DISTANCE (m)	4.89	9.82	21.60	19.50	25.48	36.13	44.04	25.80	17.36	21.77	35.81	36.69	19.39	24.04	28.27	36.88	35.33	49.15	42.81	32.98	25.40	6.86

STATION	0+000.00	0+004.89	0+014.71	0+036.31	0+055.81	0+081.29	0+117.42	0+161.46	0+187.26	0+204.62	0+226.39	0+262.20	0+298.89	0+318.28	0+342.32	0+370.59	0+407.47	0+442.80	0+491.95	0+534.76	0+567.74	0+593.14	0+600.00

PIPE SLOPE (m/m): -.060563 / 55.81; -.014046 / 148.81; -.086222 / 202.85; -.016410 / 160.37; -.042758 / 32.26

DISTANCE BTW. H. BENDS (m): 97.12g; 32.55g; 5.92g; 3.45g; L= 36.12; 24.63g; L= 44.04; 28.56g; L= 64.92; 8.67g; L= 35.81; 12.35g; L= 56.07; 8.4g; L= 89.19; 17.23g; L= 84.48; 22.59g; L= 75.78; 5.67g; L= 32.26

L= 14.71; L= 21.6; L= 19.5; L= 25.47

PIPE DIAMETER / PIPE TYPE: DN180 HDPE-100 PIPE (PN10, OUTER DIAMETER=180mm, t=10.7mm)

1/100

1/1000

LEGEND

AIR VALVE

WASHOUT VALVE

LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
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AV = AIR VALVE
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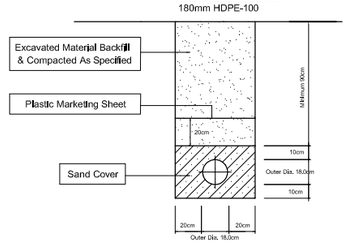
LV = LINE VALVE

TYPICAL TRENCH SECTION
180mm HDPE-100

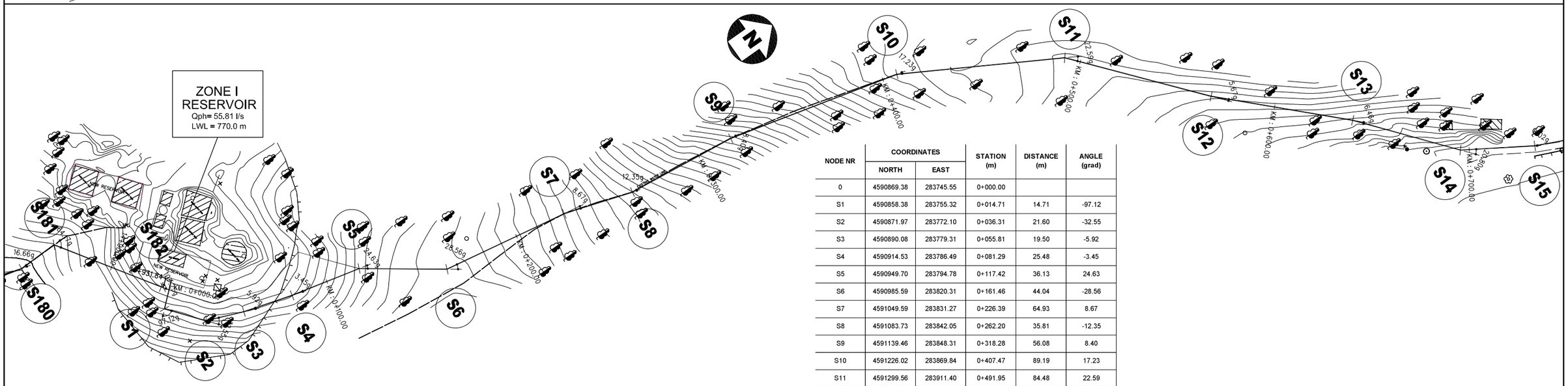


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES NORTH	COORDINATES EAST	STATION (m)	DISTANCE (m)	ANGLE (grad)
0	4590869.38	283745.55	0+000.00		
S1	4590858.38	283755.32	0+014.71	14.71	-97.12
S2	4590871.97	283772.10	0+036.31	21.60	-32.55
S3	4590890.08	283779.31	0+055.81	19.50	-5.92
S4	4590914.53	283786.49	0+081.29	25.48	-3.45
S5	4590949.70	283794.78	0+117.42	36.13	24.63
S6	4590985.59	283820.31	0+161.46	44.04	-28.56
S7	4591049.59	283831.27	0+226.39	64.93	8.67
S8	4591083.73	283842.05	0+262.20	35.81	-12.35
S9	4591139.46	283848.31	0+318.28	56.08	8.40
S10	4591226.02	283869.84	0+407.47	89.19	17.23
S11	4591299.56	283911.40	0+491.95	84.48	22.59
S12	4591348.48	283969.29	0+567.74	75.79	-5.67

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN

AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan

Japan International Cooperation Agency (JICA), Japan

Site : Gusar

Facility : Plan & Profile of TL From Zone I Service Reservoir to Zone III Service Reservoir

Title : Between KM: 0+000.00 - 0+600.00

Scale of Drawing : 1/1000

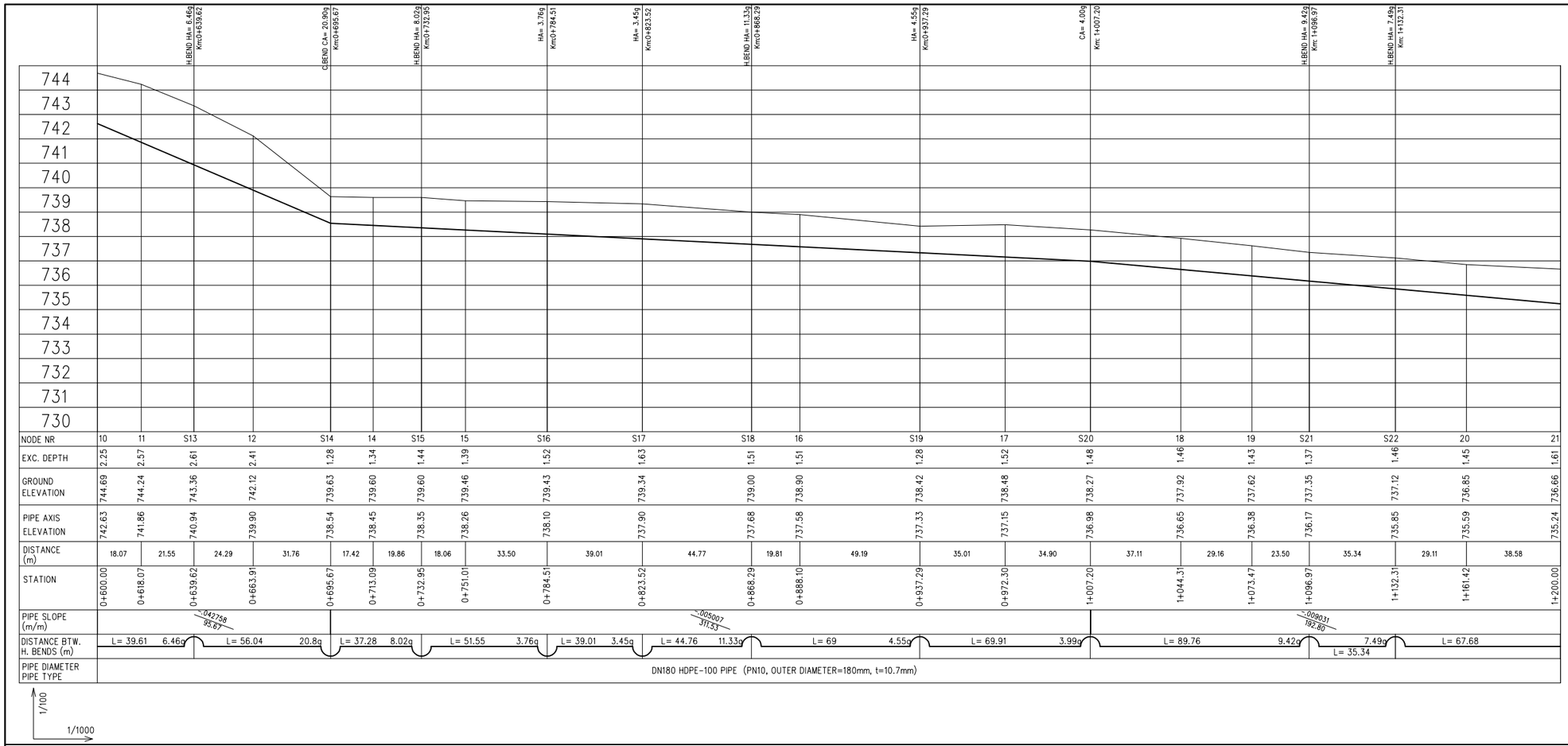
Original Size of Paper : A1

Category - City : SU-GUS-

Facility Code - Number : 09-04(01)

Date : March 2010

Revision Number : Rev.0



NODE NR	10	11	S13	12	S14	14	S15	15	S16	S17	S18	16	S19	17	S20	18	19	S21	S22	20	21
EXC. DEPTH	2.25	2.57	2.61	2.41	1.28	1.34	1.44	1.39	1.52	1.63	1.51	1.51	1.28	1.52	1.48	1.46	1.43	1.37	1.46	1.45	1.61
GROUND ELEVATION	744.69	744.24	743.36	742.12	739.63	739.60	739.60	739.46	739.43	739.34	739.00	738.90	738.42	738.48	738.27	737.92	737.62	737.35	737.12	736.85	736.66
PIPE AXIS ELEVATION	742.63	741.86	740.94	739.90	738.54	738.45	738.35	738.26	738.10	737.90	737.68	737.58	737.33	737.15	736.98	736.65	736.38	736.17	735.85	735.59	735.24

DISTANCE (m)	18.07	21.55	24.29	31.76	17.42	19.86	18.06	33.50	39.01	44.77	19.81	49.19	35.01	34.90	37.11	29.16	23.50	35.34	29.11	38.58

STATION	0+600.00	0+618.07	0+639.62	0+663.91	0+695.67	0+713.09	0+732.95	0+751.01	0+784.51	0+823.52	0+868.29	0+888.10	0+937.29	0+972.30	1+007.20	1+044.31	1+073.47	1+096.97	1+132.31	1+161.42	1+200.00

PIPE SLOPE (m/m): -.042758 / 95.67 ; -.005007 / 311.53 ; -.009031 / 192.80

DISTANCE BTW. H. BENDS (m): L= 39.61 6.46g L= 56.04 20.8g L= 37.28 8.02g L= 51.55 3.76g L= 39.01 3.45g L= 44.76 11.33g L= 69 4.55g L= 69.91 3.99g L= 89.76 9.42g 7.49g L= 67.68 ; L= 35.34

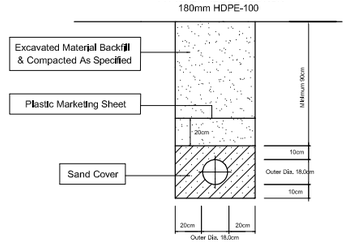
PIPE DIAMETER PIPE TYPE: DN180 HDPE-100 PIPE (PN10, OUTER DIAMETER=180mm, t=10.7mm)

LEGEND

AIR VALVE
WASHOUT VALVE
LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
HA = HORIZONTAL ANGLE (in grad)
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

TYPICAL TRENCH SECTION
180mm HDPE-100

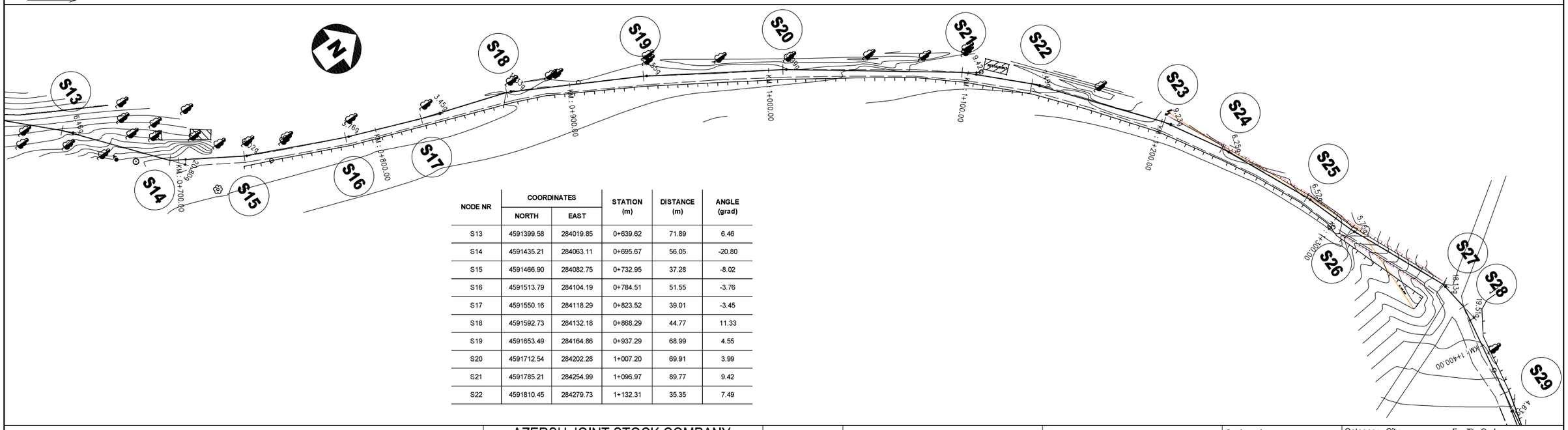


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

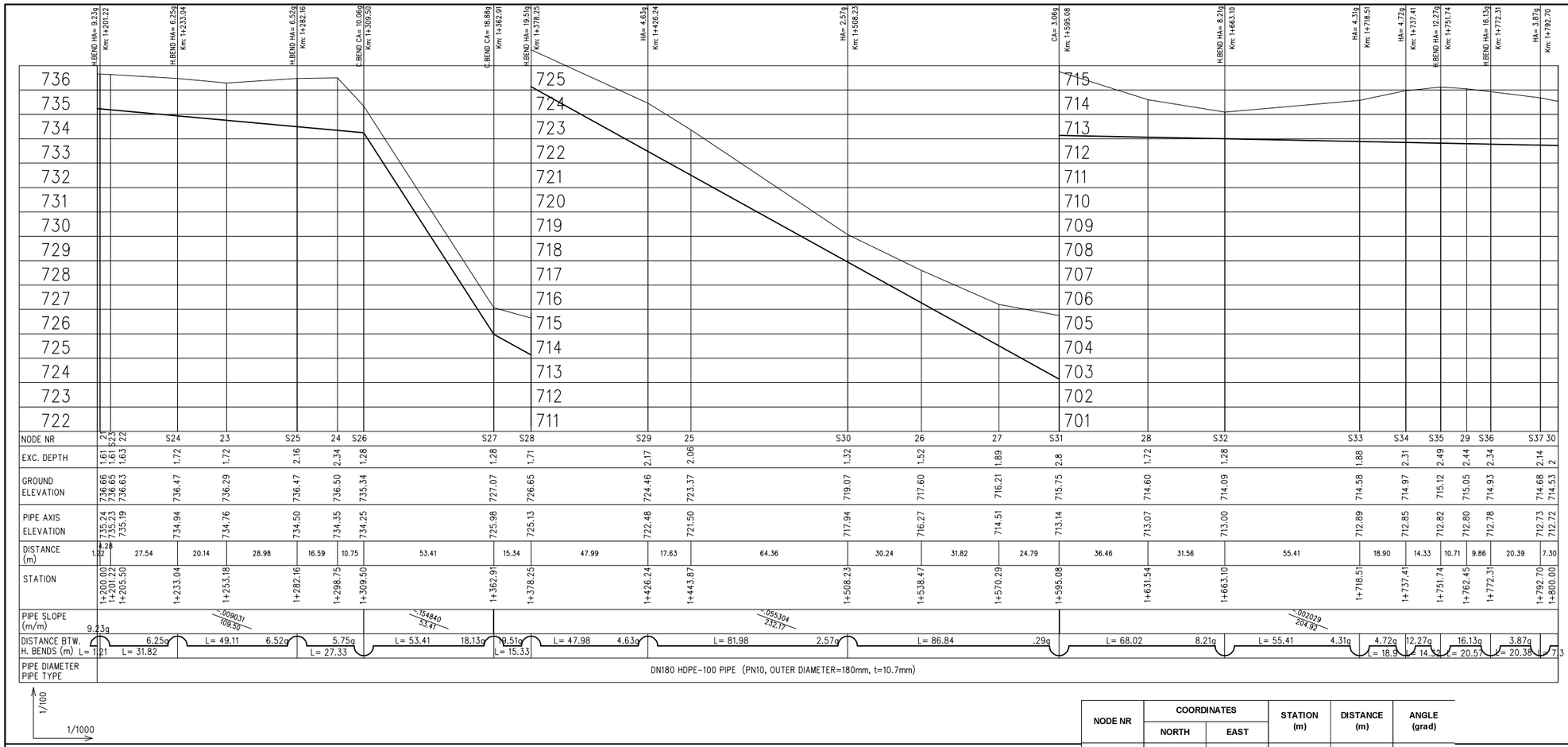
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES NORTH	COORDINATES EAST	STATION (m)	DISTANCE (m)	ANGLE (grad)
S13	4591399.58	284019.85	0+639.62	71.89	6.46
S14	4591435.21	284063.11	0+695.67	56.05	-20.80
S15	4591466.90	284082.75	0+732.95	37.28	-8.02
S16	4591513.79	284104.19	0+784.51	51.55	-3.76
S17	4591550.16	284118.29	0+823.52	39.01	-3.45
S18	4591592.73	284132.18	0+868.29	44.77	11.33
S19	4591653.49	284164.86	0+937.29	68.99	4.55
S20	4591712.54	284202.28	1+007.20	69.91	3.99
S21	4591785.21	284254.99	1+096.97	89.77	9.42
S22	4591810.45	284279.73	1+132.31	35.35	7.49

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL From Zone I Service Reservoir to Zone III Service Reservoir	Title : Between KM: 0+600.00 - 1+200.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-04(02) Revision Number Rev.0



NODE NR	EXC. DEPTH	GROUND ELEVATION	PIPE AXIS ELEVATION	STATION
25	1.61	736.66	735.24	1+200.00
623	1.61	736.65	735.23	1+201.22
22	1.63	736.63	735.19	1+205.50
S24	1.72	736.47	734.94	1+233.04
23	1.72	736.29	734.76	1+253.18
S25	2.16	736.47	734.50	1+282.16
24	2.34	736.50	734.35	1+298.75
S26	1.28	735.34	734.25	1+309.50
S27	1.28	727.07	725.98	1+362.91
S28	1.71	726.65	725.13	1+378.25
S29	2.17	724.46	722.48	1+426.24
25	2.06	723.37	721.50	1+443.87
S30	1.32	719.07	717.94	1+508.23
26	1.52	717.60	716.27	1+538.47
27	1.89	716.21	714.51	1+570.29
S31	2.8	715.75	713.14	1+595.08
28	1.72	714.60	713.07	1+631.54
S32	1.28	714.09	713.00	1+663.10
S33	1.88	714.58	712.89	1+718.51
S34	2.31	714.97	712.85	1+737.41
S35	2.49	715.12	712.82	1+751.74
29	2.44	715.05	712.80	1+762.45
S36	2.34	714.93	712.78	1+772.31
S37	2.14	714.68	712.73	1+792.70
30	2	714.53	712.72	1+800.00

DISTANCE (m)	1.82, 1.28, 27.54, 20.14, 28.98, 16.59, 10.75, 53.41, 15.34, 47.99, 17.63, 64.36, 30.24, 31.82, 24.79, 36.46, 31.56, 55.41, 18.90, 14.33, 10.71, 9.86, 20.39, 7.30
PIPE SLOPE (m/m)	9.23g, -.009031 / 109.50, -.154840 / 53.41, -.055304 / 232.17, -.002029 / 204.92
DISTANCE BTW. H. BENDS (m)	L= 1.21, L= 31.82, 6.25g, L= 49.11, 6.52g, L= 27.33, 5.75g, L= 53.41, 18.13g, L= 15.33, 19.51g, L= 47.98, 4.63g, L= 81.98, 2.57g, L= 86.84, .29g, L= 68.02, 8.21g, L= 55.41, 4.31g, L= 18.9, 4.72g, L= 14.33, 12.27g, L= 20.57, 16.13g, L= 20.39, 3.87g, 7.3

LEGEND

- AIR VALVE
- WASHOUT VALVE
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V. BEND = VERTICAL BEND
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VA = VERTICAL ANGLE (in grad)
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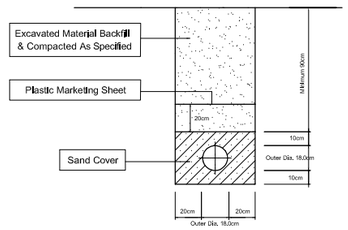
TYPICAL TRENCH SECTION
180mm HDPE-100



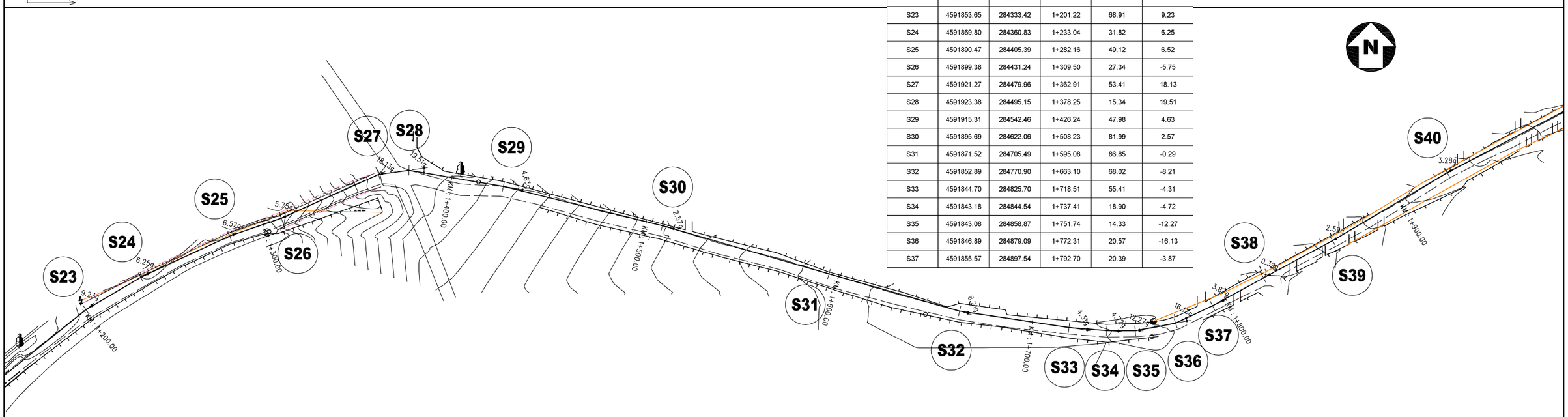
ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

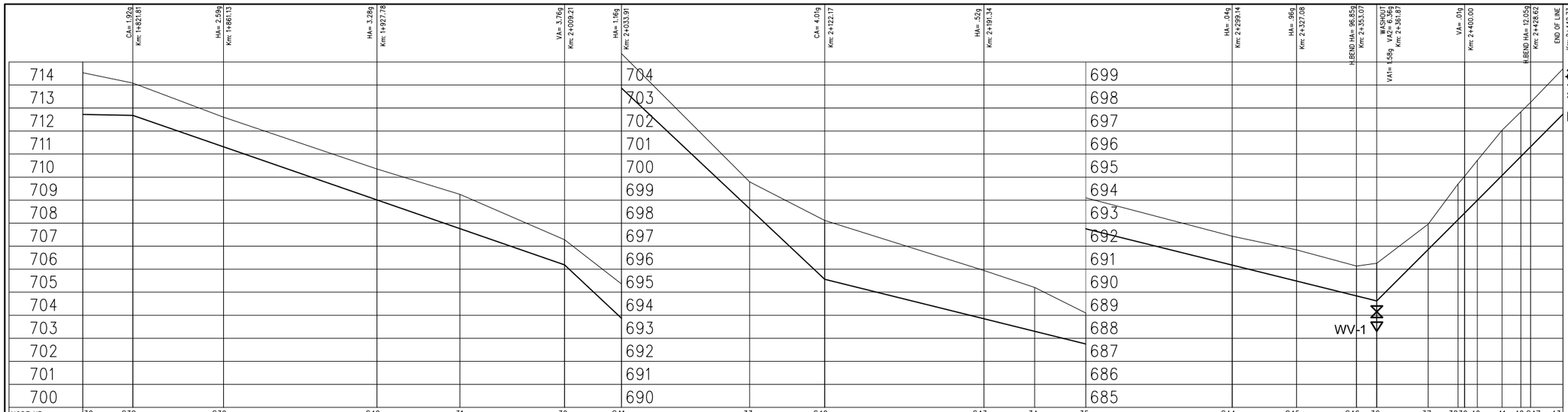
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m

NODE NR	COORDINATES NORTH	COORDINATES EAST	STATION (m)	DISTANCE (m)	ANGLE (grad)
S23	4591853.65	284333.42	1+201.22	68.91	9.23
S24	4591869.80	284360.83	1+233.04	31.82	6.25
S25	4591890.47	284405.39	1+282.16	49.12	6.52
S26	4591899.38	284431.24	1+309.50	27.34	-5.75
S27	4591921.27	284479.96	1+362.91	53.41	18.13
S28	4591923.38	284495.15	1+378.25	15.34	19.51
S29	4591915.31	284542.46	1+426.24	47.98	4.63
S30	4591895.69	284622.06	1+508.23	81.99	2.57
S31	4591871.52	284705.49	1+595.08	86.85	-0.29
S32	4591852.89	284770.90	1+663.10	68.02	-8.21
S33	4591844.70	284825.70	1+718.51	55.41	-4.31
S34	4591843.18	284844.54	1+737.41	18.90	-4.72
S35	4591843.08	284858.87	1+751.74	14.33	-12.27
S36	4591846.89	284879.09	1+772.31	20.57	-16.13
S37	4591855.57	284897.54	1+792.70	20.39	-3.87



SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL From Zone I Service Reservoir to Zone III Service Reservoir	Title : Between KM: 1+200.00 - 1+800.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-04(03) Revision Number Rev.0



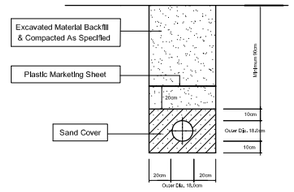
NODE NR	30	S38	S39	S40	31	32	S41	33	S42	S43	34	35	S44	S45	S46	36	37	38	39	40	41	42	S47	43
EXC. DEPTH	2	1.59	1.47	1.53	1.68	1.28	1.68	1.35	2.75	2.28	2.1	1.54	1.45	1.55	1.49	1.83	1.29	1.74	1.79	1.92	2.15	2.13	2.13	2.16
GROUND ELEVATION	714.53	714.08	712.60	710.35	709.25	707.28	705.36	699.79	698.12	695.94	695.21	694.10	692.43	691.84	691.14	691.26	692.96	694.70	695.04	695.72	697.04	697.83	698.25	699.70
PIPE AXIS ELEVATION	712.72	712.68	711.32	709.01	707.76	706.19	703.87	698.63	695.56	693.85	693.30	692.75	691.17	690.48	689.84	689.62	691.86	693.15	693.44	693.99	695.08	695.89	696.31	697.73
DISTANCE (m)	21.81	39.32	66.65	35.98	45.45	24.70	55.65	32.61	69.17	21.99	22.20	63.61	27.94	25.99	8.80	22.36	12.92	2.86 5.50	10.82	8.11	4.19	14.11		
STATION	1+800.00	1+821.81	1+861.13	1+927.78	1+963.76	2+009.21	2+033.91	2+089.56	2+122.17	2+191.34	2+213.33	2+235.53	2+299.14	2+327.08	2+353.07	2+361.87	2+384.23	2+397.15 2+400.00	2+405.50	2+416.32	2+424.43 2+428.62	2+442.73		
PIPE SLOPE (m/m)	-.002029 21.81		-.034632 187.40				-.094104 112.96					-.024782 239.70					0.00180 38.13			0.00395 42.73				
DISTANCE BTW. H. BENDS (m)	.39g L= 21.81	L= 39.31	2.59g	L= 66.65	3.28g	L= 106.13	1.16g	L= 88.25	.72g	L= 69.17	.52g	L= 107.79	.04g	L= 27.94	.96g	L= 25.98	96.85g	L= 75.55			12.05g	L= 14.1		
PIPE DIAMETER PIPE TYPE	DN180 HDPE-100 PIPE (PN10, OUTER DIAMETER=180mm, t=10.7mm)																							

LEGEND

AIR VALVE
WASHOUT VALVE
LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
HA = HORIZONTAL ANGLE (in grad)
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

TYPICAL TRENCH SECTION
180mm HDPE-100



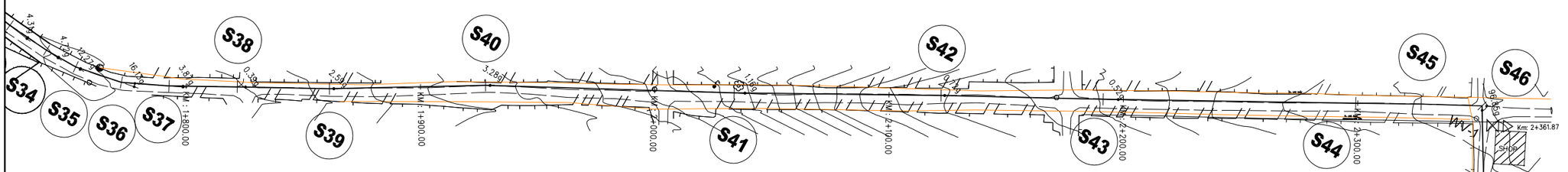
ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m

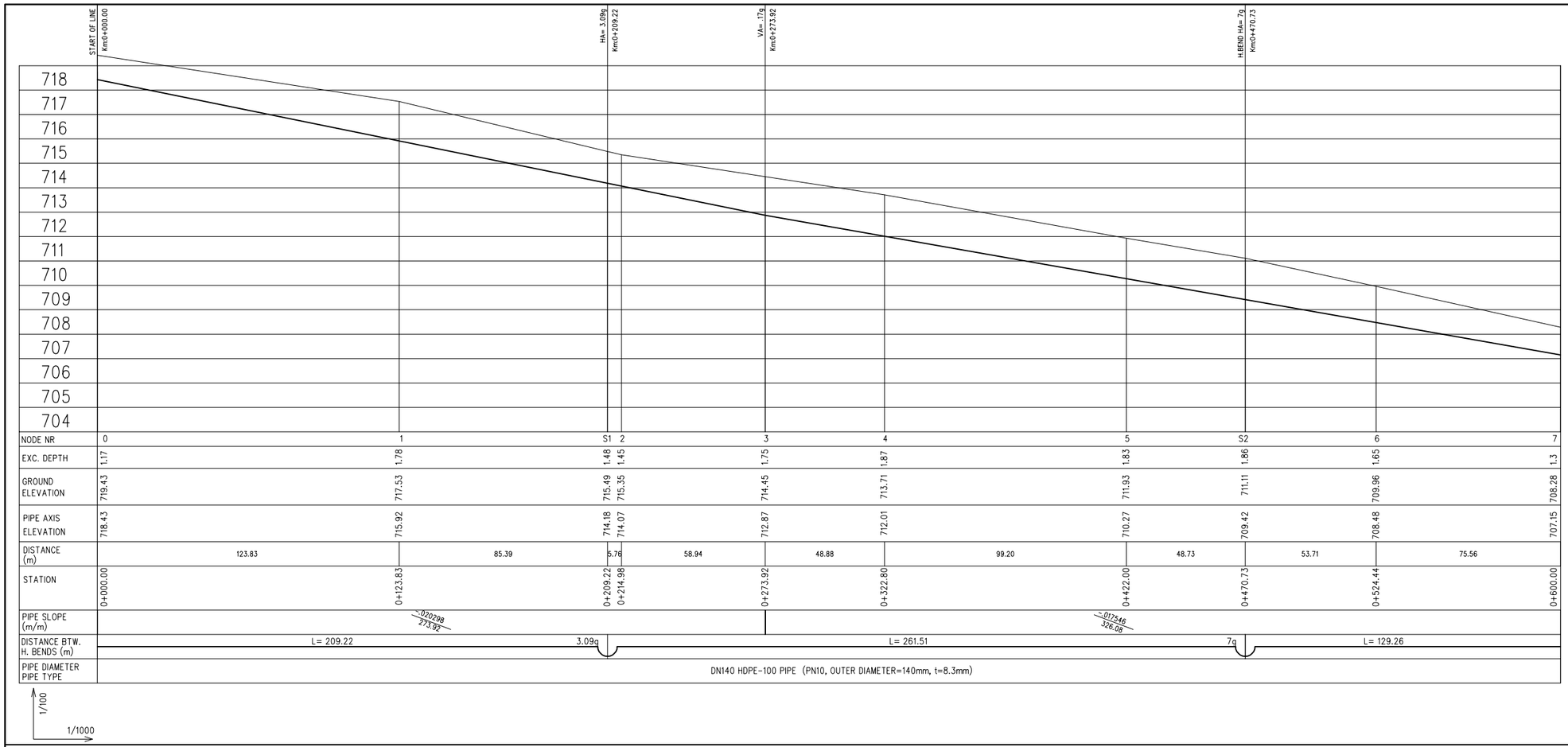
1/100
1/1000



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S38	4591869.53	284923.08	1+821.81	29.11	0.39
S39	4591888.18	284957.70	1+861.13	39.32	-2.59
S40	4591922.16	285015.05	1+927.78	66.66	3.28
S41	4591971.49	285109.01	2+033.91	106.13	-1.16
S42	4592013.92	285186.40	2+122.17	88.26	0.72
S43	4592046.48	285247.42	2+191.34	69.17	-0.52
S44	4592098.01	285342.12	2+299.14	107.81	-0.04
S45	4592111.38	285366.65	2+327.08	27.94	0.96
S46	4592123.48	285389.65	2+353.07	25.99	96.85
S47	4592058.46	285428.05	2+428.58	75.51	12.05
43	4592045.17	285432.81	2+442.73	14.11	

ZONE III
RESERVOIR
Qph= 42.04 l/s
LWL = 698.0 m

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL From Zone I Service Reservoir to Zone III Service Reservoir	Title : Between KM: 1+800.00 - 2+442.73	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Facility Code - Number 09-04(04) Date March 2010 Revision Number Rev.0

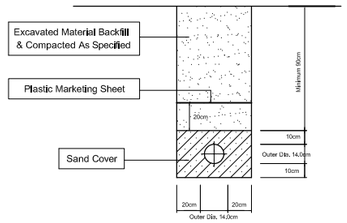


LEGEND

AIR VALVE
WASHOUT VALVE
LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
HA = HORIZONTAL ANGLE (in grad)
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

TYPICAL TRENCH SECTION
140mm HDPE-100

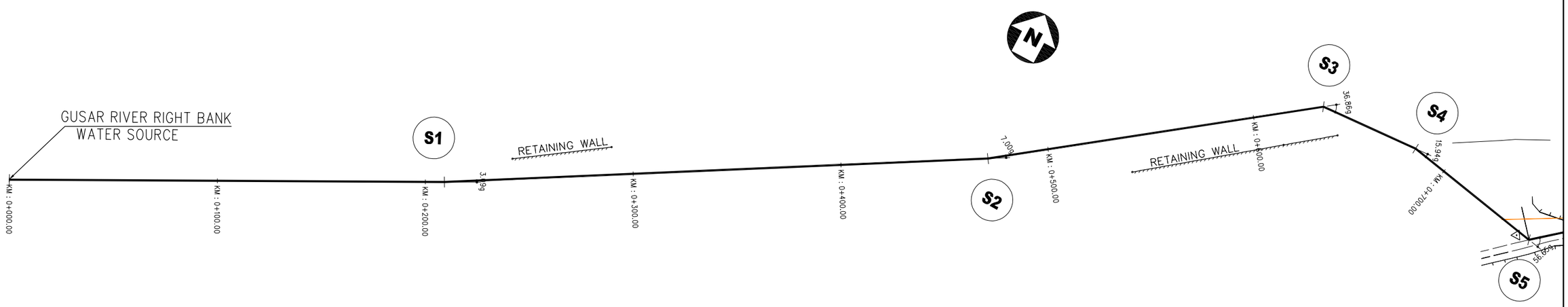


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

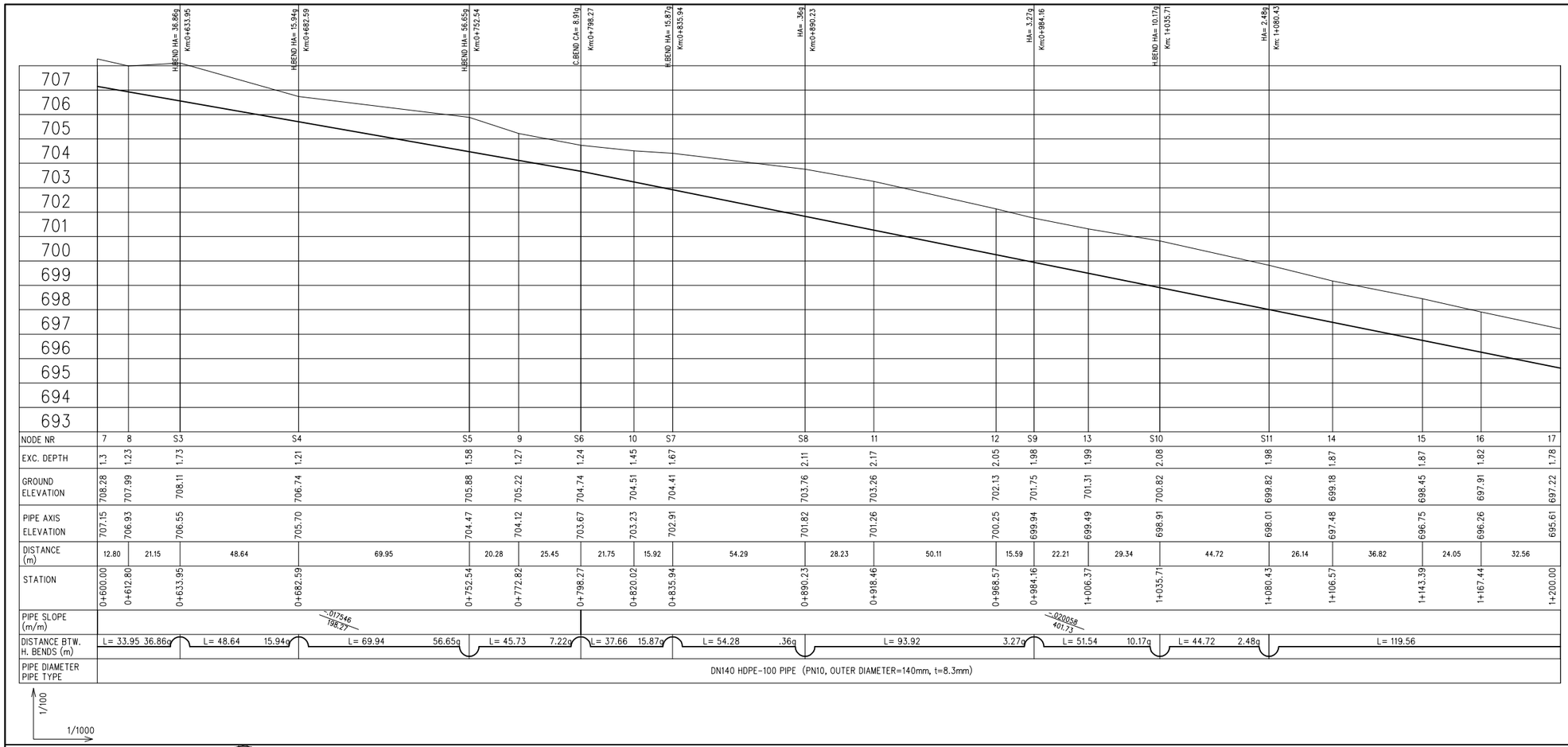
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
0	4588734.54	282459.43	0+000.00		
S1	4588832.21	282644.45	0+209.22	209.22	-3.09
S2	4588965.35	282869.54	0+470.73	261.51	-7.00

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL from Gusar River Right Bank Water Source to Zone IV Serv.Res.	Title : Between KM: 0+000.00 - 0+600.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Facility Code - Number 09-05(01) Date March 2010 Revision Number Rev.0



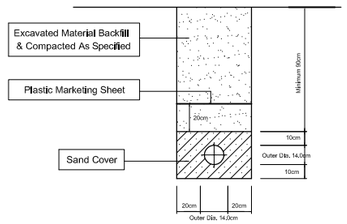
NODE NR	7	8	S3	S4	S5	9	S6	10	S7	S8	11	12	S9	13	S10	S11	14	15	16	17
EXC. DEPTH	1.3	1.23	1.73	1.21	1.58	1.27	1.24	1.45	1.67	2.11	2.17	2.05	1.98	1.99	2.08	1.98	1.87	1.87	1.82	1.78
GROUND ELEVATION	708.28	707.99	708.11	706.74	705.88	705.22	704.74	704.51	704.41	703.76	703.26	702.13	701.75	701.31	700.82	699.82	699.18	698.45	697.91	697.22
PIPE AXIS ELEVATION	707.15	706.93	706.55	705.70	704.47	704.12	703.67	703.23	702.91	701.82	701.26	700.25	699.94	699.49	698.91	698.01	697.48	696.75	696.26	695.61
DISTANCE (m)	12.80	21.15	48.64	69.95	20.28	25.45	21.75	15.92	54.29	28.23	50.11	15.59	22.21	29.34	44.72	26.14	36.82	24.05	32.56	
STATION	0+600.00	0+612.80	0+633.95	0+682.59	0+752.54	0+772.82	0+798.27	0+820.02	0+835.94	0+890.23	0+918.46	0+968.57	0+984.16	1+006.37	1+035.71	1+080.43	1+106.57	1+143.39	1+167.44	1+200.00
PIPE SLOPE (m/m)				-.017546 198.27											-.020058 401.73					
DISTANCE BTW. H. BENDS (m)	L= 33.95 36.86g		L= 48.64 15.94g	L= 69.94 56.65g		L= 45.73 7.22g		L= 37.66 15.87g	L= 54.28 .36g		L= 93.92 3.27g		L= 51.54 10.17g		L= 44.72 2.48g		L= 119.56			
PIPE DIAMETER PIPE TYPE	DN140 HDPE-100 PIPE (PN10, OUTER DIAMETER=140mm, t=8.3mm)																			

LEGEND

AIR VALVE
WASHOUT VALVE
LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
HA = HORIZONTAL ANGLE (in grad)
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

TYPICAL TRENCH SECTION
140mm HDPE-100

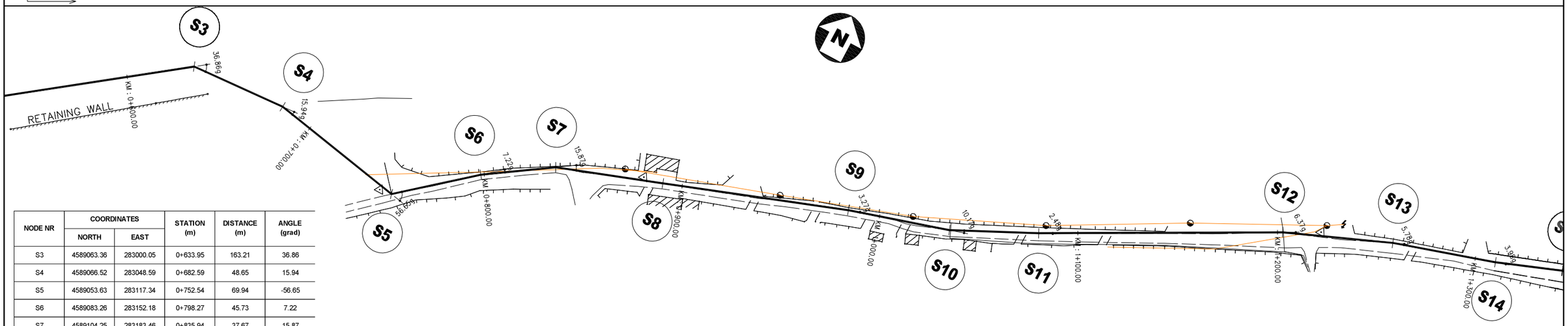


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

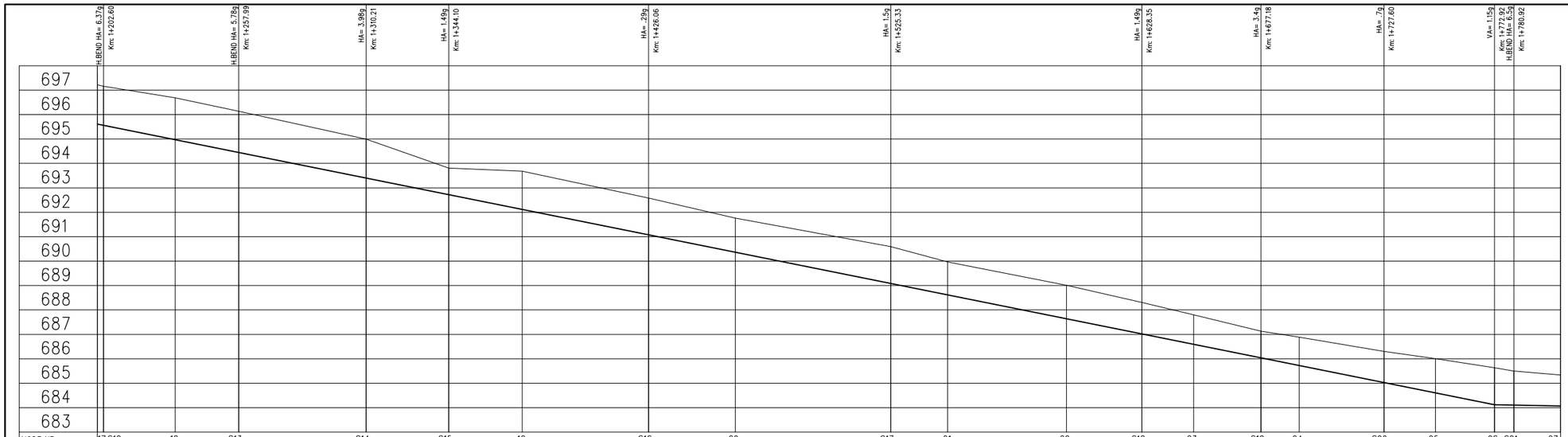
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S3	4589063.36	283000.05	0+633.95	163.21	36.86
S4	4589066.52	283048.59	0+682.59	48.65	15.94
S5	4589053.63	283117.34	0+752.54	69.94	-56.65
S6	4589083.26	283152.18	0+798.27	45.73	7.22
S7	4589104.25	283183.46	0+835.94	37.67	15.87
S8	4589122.45	283234.61	0+890.23	54.28	-0.36
S9	4589154.44	283322.92	0+984.16	93.93	3.27
S10	4589169.48	283372.23	1+035.71	51.55	-10.17
S11	4589189.17	283412.38	1+080.43	44.72	-2.48

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL from Gusar River Right Bank Water Source to Zone IV Serv.Res.	Title : Between KM: 0+600.00 - 1+200.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-05(02) Revision Number Rev.0



NODE NR	17	S12	18		S13		S14		S15		19		S16		20		S17		21		22		S18		23		S19
EXC. DEPTH	1.78	1.77	1.89		1.86		1.76		1.26		1.74		1.67		1.57		1.67		1.52		1.54		1.46		1.38		1.26
GROUND ELEVATION	697.22	697.16	696.69		696.14		694.99		693.81		693.68		692.58		691.76		690.59		689.97		689.01		688.31		687.80		687.13
PIPE AXIS ELEVATION	695.61	695.56	694.97		694.45		693.40		692.72		692.11		691.08		690.36		689.09		688.62		687.64		687.02		686.59		686.04
DISTANCE (m)	2.60		29.31		26.08		52.22		33.89		30.19		51.77		35.56		63.71		23.34		48.76		30.92		21.21		27.62
STATION	1+200.00	1+202.60	1+231.91		1+257.99		1+310.21		1+344.10		1+374.29		1+426.06		1+461.62		1+525.33		1+548.67		1+597.43		1+628.35		1+649.56		1+677.18
PIPE SLOPE (m/m)																-.020058 572.92											
DISTANCE BTW. H. BENDS (m)	L= 37.59		L= 55.39	5.78g		L= 52.21	3.98g	L= 33.89	1.49g		L= 81.96	.29g			L= 99.26	1.5g			L= 103.02	1.49g		L= 48.83	3.4g				
PIPE DIAMETER PIPE TYPE	DN140 HDPE-100 PIPE (PN10, OUTER DIAMETER=140mm, t=8.3mm)																										

NODE NR	24		25		26	S21	27
EXC. DEPTH	1.33		1.57		1.68	1.56	1.44
GROUND ELEVATION	686.89		686.01		685.63	685.50	685.34
PIPE AXIS ELEVATION	685.73		684.61		684.12	684.11	684.07
DISTANCE (m)	15.62	34.80	21.07	24.25	8	19.08	
STATION	1+692.80	1+727.60	1+748.67	1+772.92	1+780.92	1+800.00	
PIPE SLOPE (m/m)						-.002011 27.08	
DISTANCE BTW. H. BENDS (m)	L= 50.41	.7g	L= 53.32	6.5g		L= 19.07	
PIPE DIAMETER PIPE TYPE							

1/100

1/1000

LEGEND

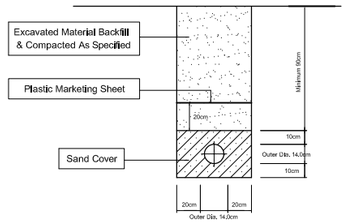
AIR VALVE

WASHOUT VALVE

LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
HA = HORIZONTAL ANGLE (in grad)
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

TYPICAL TRENCH SECTION
140mm HDPE-100



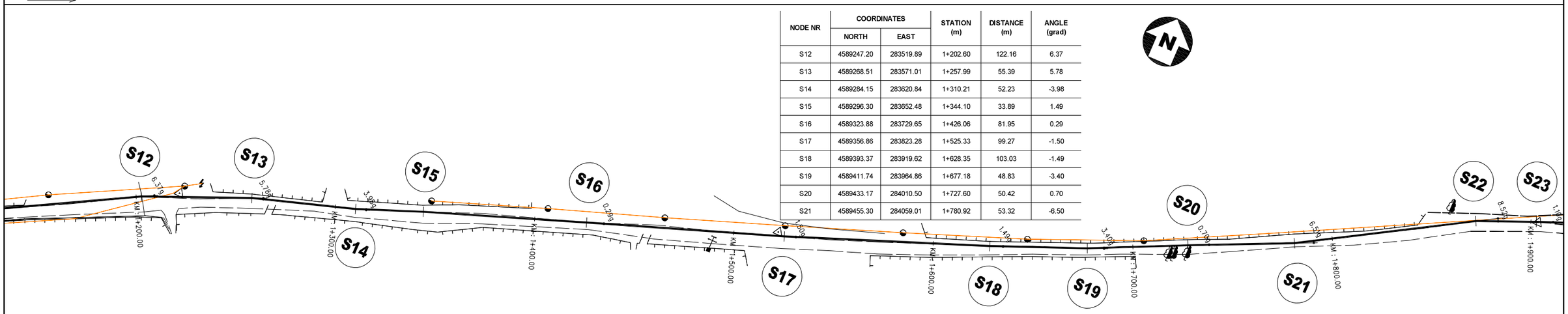
ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

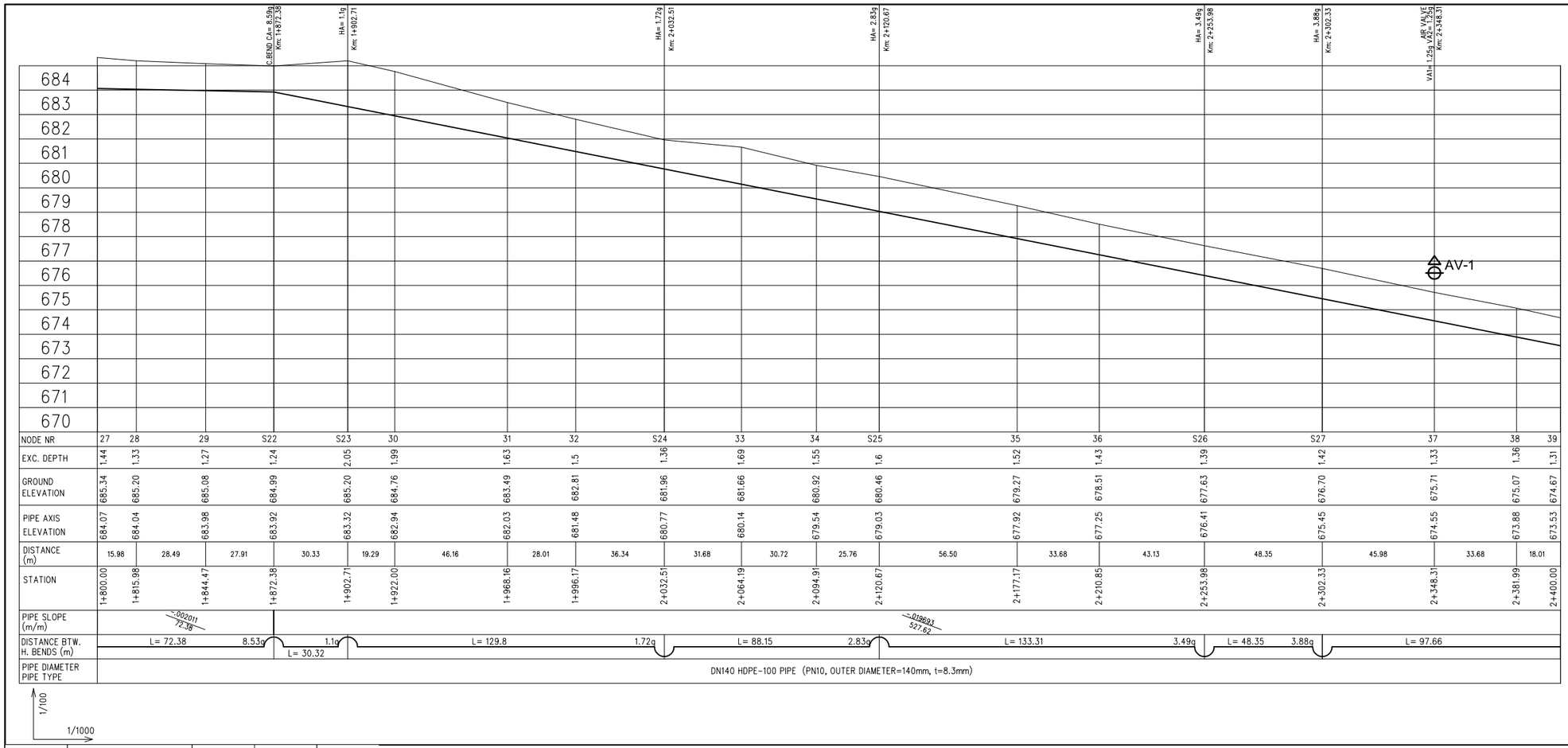
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m

NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S12	4589247.20	283519.89	1+202.60	122.16	6.37
S13	4589268.51	283571.01	1+257.99	55.39	5.78
S14	4589284.15	283620.84	1+310.21	52.23	-3.98
S15	4589296.30	283652.48	1+344.10	33.89	1.49
S16	4589323.88	283729.65	1+426.06	81.95	0.29
S17	4589356.86	283823.28	1+525.33	99.27	-1.50
S18	4589393.37	283919.62	1+628.35	103.03	-1.49
S19	4589411.74	283964.86	1+677.18	48.83	-3.40
S20	4589433.17	284010.50	1+727.60	50.42	0.70
S21	4589455.30	284059.01	1+780.92	53.32	-6.50



SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL from Gusar River Right Bank Water Source to Zone IV Serv.Res.	Title : Between KM: 1+200.00 - 1+800.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-05(03) Revision Number Rev.0



NODE NR	27	28	29	S22	S23	30	31	32	S24	33	34	S25	35	36	S26	S27	37	38	39
EXC. DEPTH	1.44	1.33	1.27	1.24	2.05	1.99	1.63	1.5	1.36	1.69	1.55	1.6	1.52	1.43	1.39	1.42	1.33	1.36	1.31
GROUND ELEVATION	685.34	685.20	685.08	684.99	685.20	684.76	683.49	682.81	681.96	681.66	680.92	680.46	679.27	678.51	677.63	676.70	675.71	675.07	674.67
PIPE AXIS ELEVATION	684.07	684.04	683.98	683.92	683.32	682.94	682.03	681.48	680.77	680.14	679.54	679.03	677.92	677.25	676.41	675.45	674.55	673.88	673.53
DISTANCE (m)	15.98	28.49	27.91	30.33	19.29	46.16	28.01	36.34	31.68	30.72	25.76	56.50	33.68	43.13	48.35	45.98	33.68	18.01	
STATION	1+800.00	1+815.98	1+844.47	1+872.38	1+902.71	1+922.00	1+968.16	1+996.17	2+032.51	2+064.19	2+094.91	2+120.67	2+177.17	2+210.85	2+253.98	2+302.33	2+348.31	2+381.99	2+400.00
PIPE SLOPE (m/m)	-.002011 / 72.38											-.019693 / 527.62							
DISTANCE BTW. H. BENDS (m)	L= 72.38			8.53g	1.1g	L= 129.8			1.72g	L= 88.15		2.83g	L= 133.31		3.49g	L= 48.35	3.88g	L= 97.66	
					L= 30.32														
PIPE DIAMETER PIPE TYPE	DN140 HDPE-100 PIPE (PN10, OUTER DIAMETER=140mm, t=8.3mm)																		

LEGEND

AIR VALVE
WASHOUT VALVE
LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
HA = HORIZONTAL ANGLE (in grad)
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
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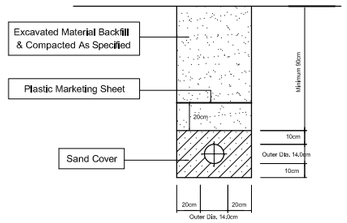
LV = LINE VALVE

TYPICAL TRENCH SECTION
140mm HDPE-100



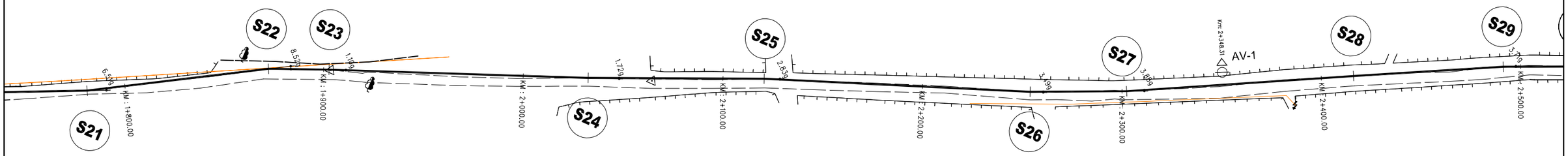
ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

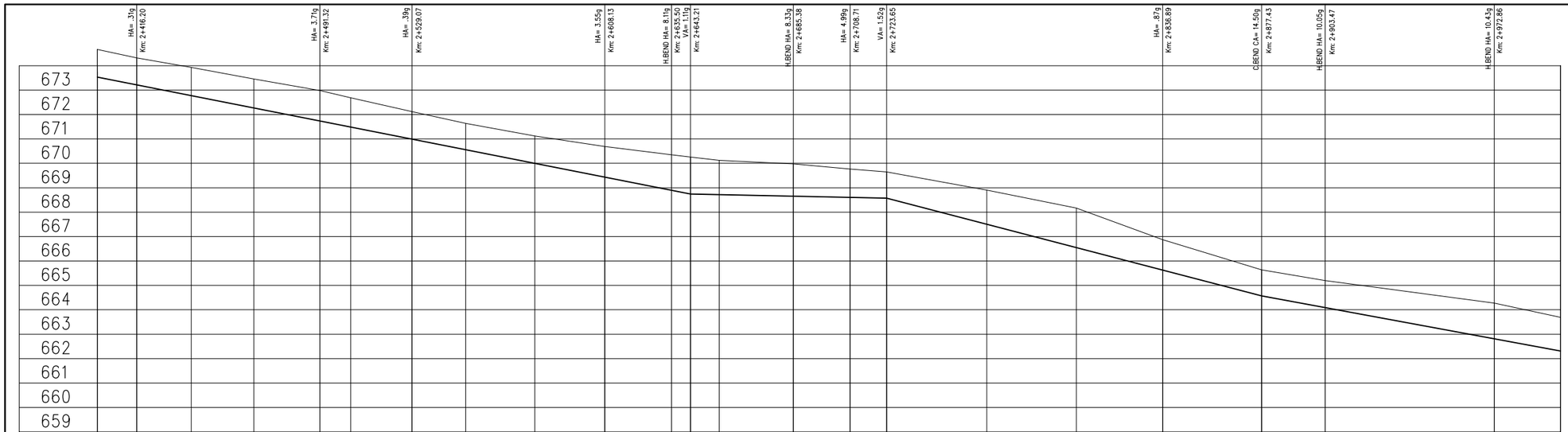
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m

NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S22	4589501.56	284137.91	1+872.38	91.46	8.53
S23	4589513.27	284165.89	1+902.71	30.33	1.10
S24	4589561.31	284286.47	2+032.51	129.80	-1.72
S25	4589596.14	284367.46	2+120.67	88.16	2.83
S26	4589643.30	284492.15	2+253.98	133.31	-3.49
S27	4589662.86	284536.37	2+302.33	48.35	-3.88



SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL from Gusar River Right Bank Water Source to Zone IV Serv.Res.	Title : Between KM: 1+800.00 - 2+400.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-05(04) Revision Number Rev.0



NODE NR	39	S28	40	41	S29	42	S30	43	44	S31	S32	45	46	S33	S34	47	48	49	S35	S36	S37	S38	50
EXC. DEPTH	1.31	1.28	1.33	1.36	1.42	1.38	1.3	1.26	1.29	1.43	1.63	1.69	1.57	1.5	1.34	1.25	1.57	1.79	1.42	1.24	1.28	1.63	1.55
GROUND ELEVATION	674.67	674.32	673.93	673.46	672.98	672.69	672.12	671.64	671.12	670.69	670.35	670.26	670.12	669.98	669.77	669.65	668.90	668.17	666.87	665.64	665.20	664.27	663.69
PIPE AXIS ELEVATION	673.53	673.21	672.77	672.27	671.73	671.48	670.99	670.55	670.00	669.43	668.89	668.74	668.72	668.65	668.60	668.57	667.50	666.55	665.62	664.57	664.09	662.81	662.31
DISTANCE (m)	16.20	22.30	25.71	27.11	12.59	25.16	21.99	28.36	28.71	27.37	7.71	11.82	30.35	23.33	14.94	41.10	36.72	35.42	40.54	26.04	69.39	27.14	
STATION	2+400.00	2+416.20	2+438.50	2+464.21	2+491.32	2+503.91	2+529.07	2+551.06	2+579.42	2+608.13	2+635.50	2+643.21	2+655.03	2+685.38	2+708.71	2+723.65	2+764.75	2+801.47	2+836.89	2+877.43	2+903.47	2+972.86	3+000.00

PIPE SLOPE (m/m): -.019693 / 243.21; -.002112 / 80.44; -.026011 / 153.78; -.018418 / 122.57

DISTANCE BTW. H. BENDS (m): .31g, L= 16.19, L= 75.12, 3.71g, L= 37.75, .39g, L= 79.05, 3.55g, L= 27.37, 8.11g, L= 49.87, 8.33g, L= 23.33, 4.99g, L= 128.17, .87g, L= 40.54, 14.5g, L= 26.04, 10.05g, L= 69.39, 10.43g, L= 27.13

PIPE DIAMETER PIPE TYPE: DN140 HDPE-100 PIPE (PN10, OUTER DIAMETER=140mm, t=8.3mm)

1/100

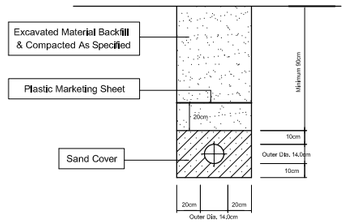
1/1000

LEGEND

AIR VALVE
WASHOUT VALVE
LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
HA = HORIZONTAL ANGLE (in grad)
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

TYPICAL TRENCH SECTION
140mm HDPE-100



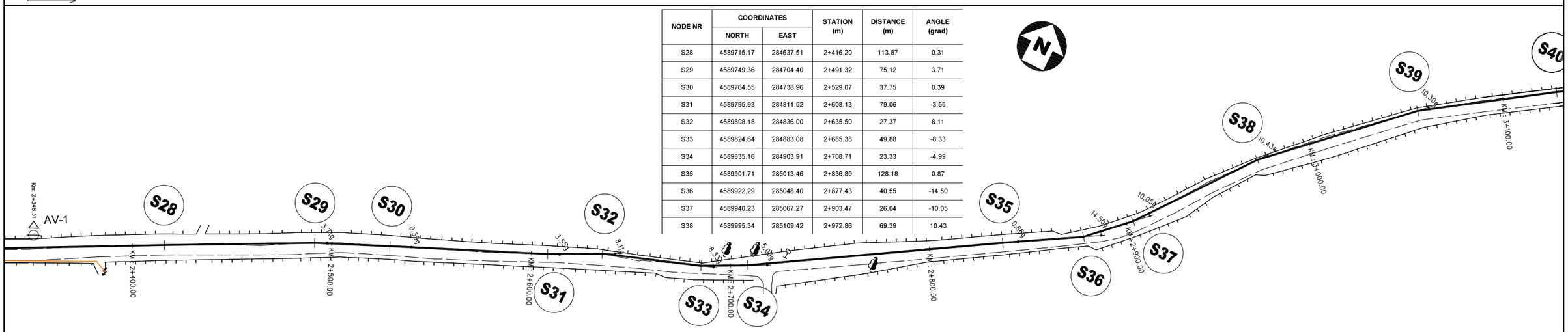
ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

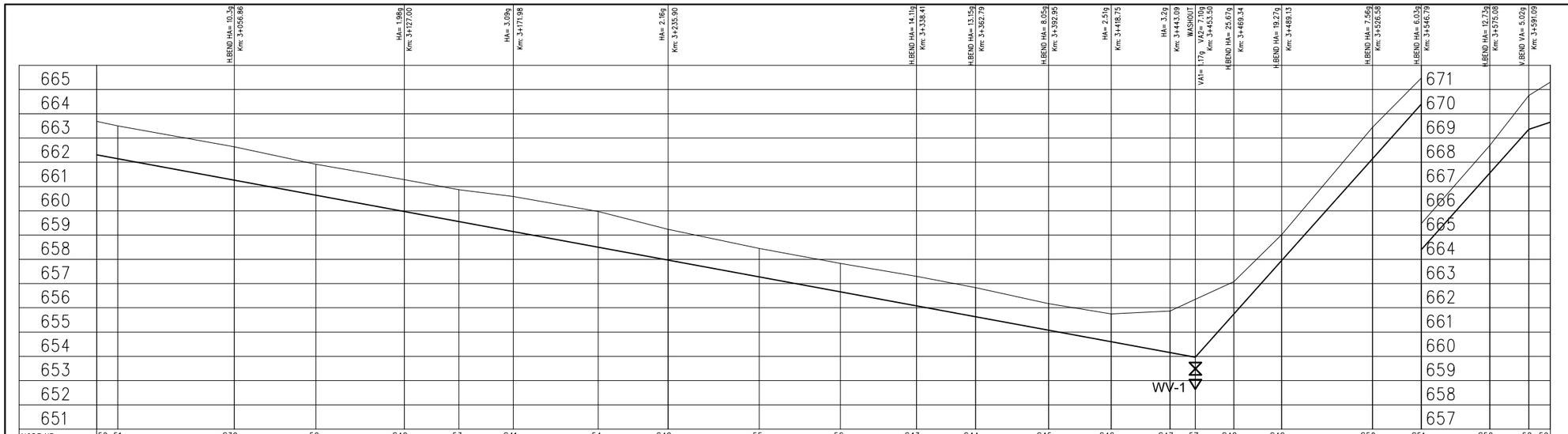
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m

NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S28	4589715.17	284637.51	2+416.20	113.87	0.31
S29	4589749.36	284704.40	2+491.32	75.12	3.71
S30	4589764.55	284738.96	2+529.07	37.75	0.39
S31	4589795.93	284811.52	2+608.13	79.06	-3.55
S32	4589808.18	284836.00	2+635.50	27.37	8.11
S33	4589824.64	284883.08	2+685.38	49.88	-8.33
S34	4589835.16	284903.91	2+708.71	23.33	-4.99
S35	4589901.71	285013.46	2+836.89	128.18	0.87
S36	4589922.29	285048.40	2+877.43	40.55	-14.50
S37	4589940.23	285067.27	2+903.47	26.04	-10.05
S38	4589995.34	285109.42	2+972.86	69.39	10.43



SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL from Gusar River Right Bank Water Source to Zone IV Serv.Res.	Title : Between KM: 2+400.00 - 3+000.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-05(05) Revision Number Rev.0



NODE NR	50	51	S39	52	S40	53	S41	54	S42	55	56	S43	S44	S45	S46	S47	57	S48	S49	S50	S51	S52	58	59
EXC. DEPTH	1.55	1.52	1.55	1.45	1.48	1.48	1.62	1.64	1.44	1.35	1.34	1.39	1.37	1.27	1.32	1.89	2.56	1.52	1.24	1.47	1.24	1.3	1.56	1.82
GROUND ELEVATION	663.69	663.50	662.64	661.92	661.28	660.87	660.59	659.97	659.24	658.45	657.83	657.30	656.83	656.17	655.75	655.87	656.35	657.08	659.02	663.44	665.47	668.70	670.75	671.30
PIPE AXIS ELEVATION	662.31	662.15	661.26	660.64	659.97	659.56	659.14	658.50	657.97	657.27	656.66	656.08	655.63	655.07	654.60	654.15	653.96	655.73	657.95	662.14	664.40	667.57	669.36	669.65
DISTANCE (m)	8.76	48.10	33.62	36.52	22.57	22.41	35.05	28.87	37.59	33.50	31.42	24.38	30.16	25.80	24.34	10.41	15.84	19.79	37.45	20.21	28.29	16.01	8.91	
STATION	3+000.00	3+008.76	3+056.86	3+090.48	3+127.00	3+149.57	3+171.98	3+207.03	3+235.90	3+273.49	3+306.99	3+338.41	3+362.79	3+392.95	3+418.75	3+443.09	3+453.50	3+469.34	3+489.13	3+526.58	3+546.79	3+575.08	3+591.09	3+600.00
PIPE SLOPE (m/m)	-0.18418 / 453.30																			0.11928 / 137.59			0.03203 / 8.91	
DISTANCE BTW. H. BENDS (m)	L= 56.86	10.3g	L= 70.13	1.98g	L= 44.97	3.09g	L= 63.91	2.16g	L= 102.51	14.11g	13.15g	L= 24.38	8.05g	L= 30.15	2.51g	L= 25.8	3.2g	L= 24.34	25.67g	L= 26.25	19.27g	L= 19.78	L= 37.45	7.56g
	6.03g	L= 20.2	12.73g	L= 28.29	L= 24.91																			
PIPE DIAMETER PIPE TYPE	DN140 HDPE-100 PIPE (PN10, OUTER DIAMETER=140mm, t=8.3mm)																							

1/100

1/1000

LEGEND

AIR VALVE

WASHOUT VALVE

LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
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AV = AIR VALVE
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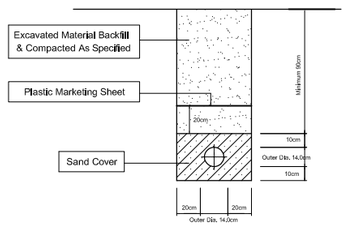
TYPICAL TRENCH SECTION
140mm HDPE-100

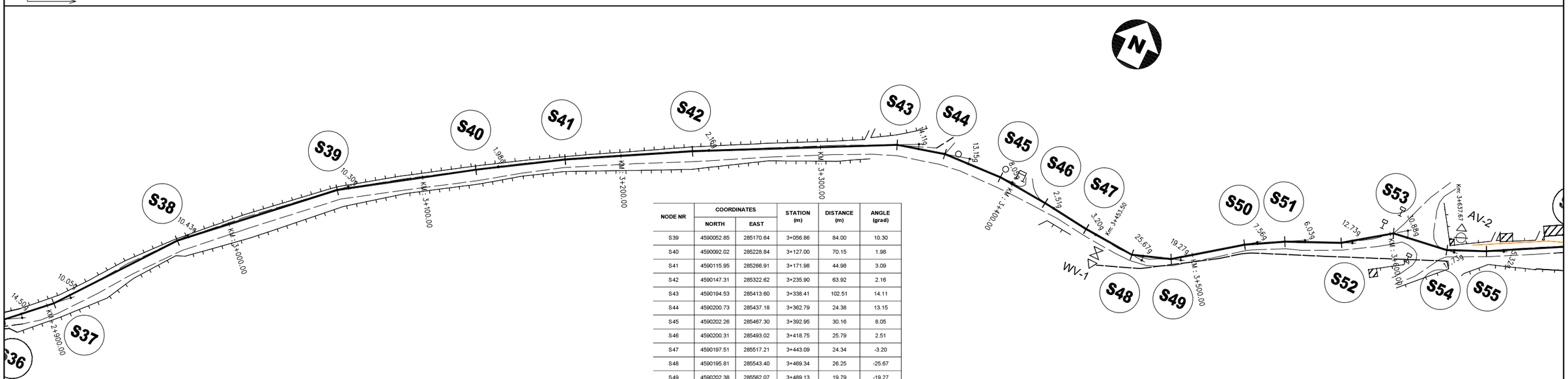


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

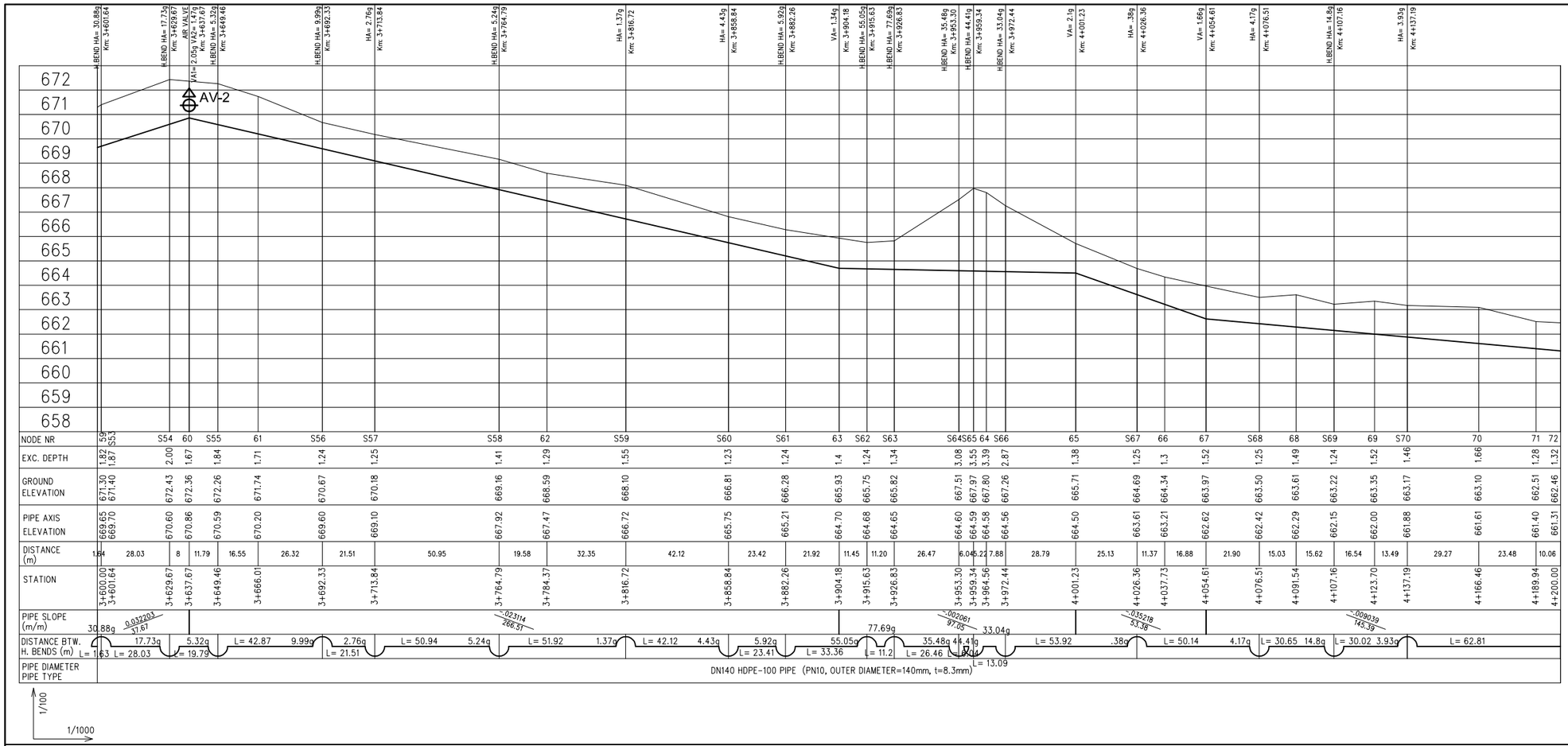
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S39	4590052.85	285170.64	3+056.86	84.00	10.30
S40	4590092.02	285228.84	3+127.00	70.15	1.98
S41	4590115.95	285266.91	3+171.98	44.98	3.09
S42	4590147.31	285322.62	3+235.90	63.92	2.16
S43	4590194.53	285413.60	3+338.41	102.51	14.11
S44	4590200.73	285437.18	3+362.79	24.38	13.15
S45	4590202.26	285467.30	3+392.95	30.16	8.05
S46	4590200.31	285493.02	3+418.75	25.79	2.51
S47	4590197.51	285517.21	3+443.09	24.34	-3.20
S48	4590195.81	285543.40	3+469.34	26.25	-25.67
S49	4590202.38	285562.07	3+489.13	19.79	-19.27
S50	4590224.77	285592.08	3+526.58	37.44	7.56
S51	4590234.85	285609.60	3+546.79	20.21	6.03
S52	4590246.58	285635.35	3+575.08	28.30	-12.73

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL from Gusar River Right Bank Water Source to Zone IV Serv.Res.	Title : Between KM: 3+000.00 - 3+600.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Facility Code - Number 09-05(06) Date March 2010 Revision Number Rev.0



LEGEND

- AIR VALVE
- WASHOUT VALVE
- LINE VALVE

V. BEND = VERTICAL BEND
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VA = VERTICAL ANGLE (in grad)
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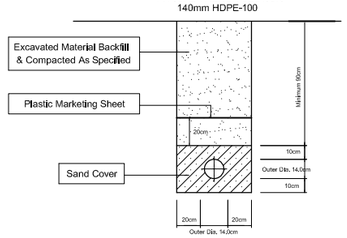
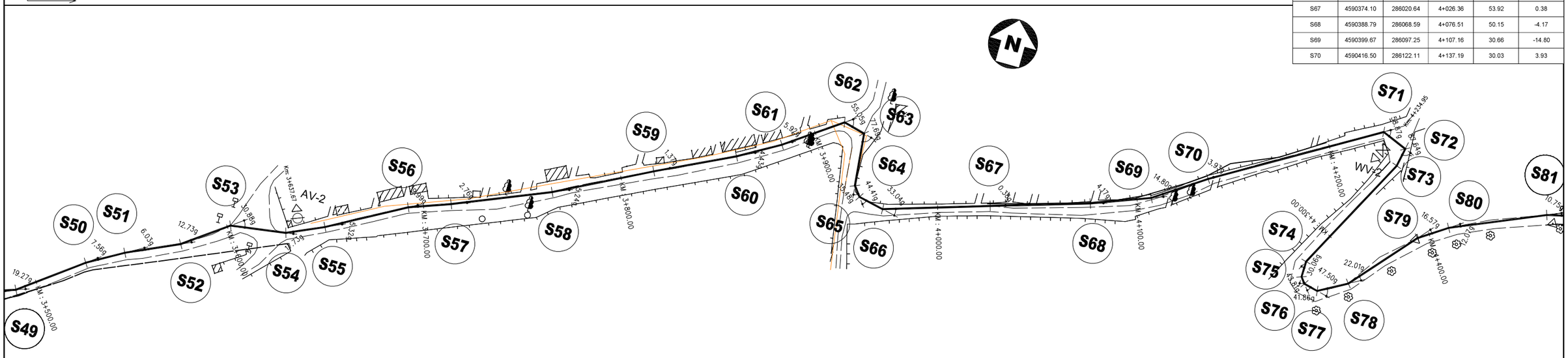
TYPICAL TRENCH SECTION
140mm HDPE-100



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S53	4590262.17	285656.84	3+601.64	26.55	30.88
S54	4590266.16	285684.59	3+629.67	28.04	-17.73
S55	4590274.24	285702.66	3+649.46	19.79	-5.32
S56	4590294.97	285740.18	3+692.33	42.86	9.99
S57	4590302.30	285760.40	3+713.84	21.51	-2.76
S58	4590321.72	285807.50	3+764.79	50.95	-5.24
S59	4590345.40	285853.73	3+816.72	51.94	1.37
S60	4590363.79	285891.62	3+858.84	42.12	-4.43
S61	4590375.45	285911.93	3+882.26	23.42	-5.92
S62	4590394.69	285939.19	3+915.63	33.37	55.05
S63	4590391.92	285950.04	3+926.83	11.20	77.69
S64	4590365.58	285952.69	3+953.30	26.47	-35.48
S65	4590360.80	285956.39	3+959.34	6.04	-44.41
S66	4590358.00	285969.17	3+972.44	13.09	-33.04
S67	4590374.10	286020.64	4+026.36	53.92	0.38
S68	4590388.79	286068.59	4+076.51	50.15	-4.17
S69	4590399.67	286097.25	4+107.16	30.66	-14.80
S70	4590416.50	286122.11	4+137.19	30.03	3.93



SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL from Gusar River Right Bank Water Source to Zone IV Serv.Res.	Title : Between KM: 3+600.00 - 4+200.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-05(07) Revision Number Rev.0

LEGEND

- AIR VALVE
- WASHOUT VALVE
- LINE VALVE

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C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
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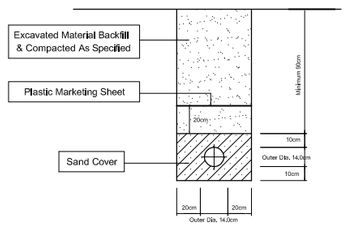
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

TYPICAL TRENCH SECTION
140mm HDPE-100

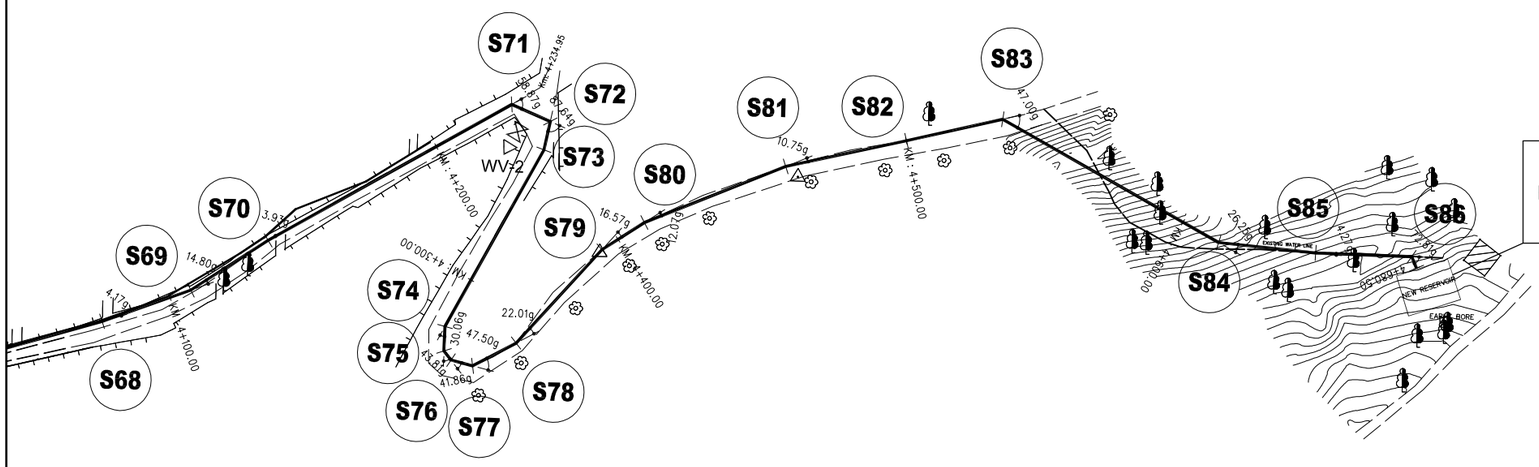


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



ZON
RESER
Qph= 7.2
LWL = 69

NODE NR	COORDINATES NORTH	COORDINATES EAST	STATION (m)	DISTANCE (m)	ANGLE (grad)
S71	4590462.75	286200.44	4+228.15	90.96	58.87
S72	4590457.52	286213.13	4+241.88	13.73	87.64
S73	4590448.22	286211.28	4+251.37	9.48	18.41
S74	4590389.87	286180.43	4+317.37	66.00	-30.06
S75	4590381.90	286180.32	4+325.34	7.97	-43.81
S76	4590378.98	286182.66	4+329.08	3.75	-41.86
S77	4590377.24	286189.77	4+336.40	7.32	-47.50
S78	4590385.02	286203.78	4+352.43	16.03	-22.01
S79	4590416.13	286230.97	4+393.75	41.32	16.57
S80	4590425.34	286244.66	4+410.25	16.50	12.07
S81	4590444.77	286290.27	4+459.82	49.57	10.75
S82	4590454.11	286329.45	4+500.10	40.29	-0.65
S83	4590461.88	286360.66	4+532.26	32.16	47.00
S84	4590423.43	286432.02	4+613.32	81.06	-26.25
S85	4590420.83	286463.79	4+645.20	31.88	-4.27
S86	4590420.37	286495.16	4+676.57	31.37	72.81
89	4590416.65	286496.79	4+680.50	3.93	

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL from Gusar River Right Bank Water Source to Zone IV Serv.Res.	Title : Between KM: 4+200.00 - 4+680.50	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-05(08) Revision Number Rev.0