

MINISTRY OF DISASTER MANAGEMENT AND HUMAN RIGHTS

DEPARTMENT OF IRRIGATION OF THE MINISTRY OF IRRIGATION AND WATER MANAGEMENT

**COMPREHENSIVE STUDY
ON
DISASTER MANAGEMENT
IN
SRI LANKA**

FINAL REPORT

(DATA BOOK)

MARCH 2009

JAPAN INTERNATIONAL COOPERATION AGENCY

**ORIENTAL CONSULTANTS CO., LTD.
ASIAN DISASTER REDUCTION CENTER**

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09-042

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RIGHTS**

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Data Book 1

River Cross Section Survey

Data Book 1 River Cross Section Survey

1.1 Contractor

The river cross section survey was conducted by the following contractor in Sri Lanka.

Company: Gamini B. Dodanwela Associates (Pvt) Ltd. , Colombo, Sri Lanka

Address : 213/C-2/2, Anagalika Dharmapala Mawatha, Dehiwala, Sri Lanka

Tel : (00911) 2716996 / 4205427 Fax : 4208148 e-mail : bhoomi@isplanka.lk

1.2 Objective

To undertake a comprehensive study on Disaster Management in Sri Lanka by using river cross sections as basic material to be used for further elaboration of rating curves of rivers at main gauging stations and for utilization for pilot projects of early warning systems in the target river basins.

1.3 Scope of the Survey

The Scope of work is to conduct river cross section survey in 4 River Basins at 18 locations as listed below:

Table I.3.1 Location of River Cross Section Survey

	River	Site	Note	Purpose
1.	Kelani	Glencourse	G/S	To check rating curves
2.	Kelani	Hanwella	G/S	To check rating curves
3.	Kelani	Kaduwellla	G/S	To check rating curves
4.	Kelani	Nagalagam	G/S	To check rating curves
5.	Kalu	Ratnapura	G/S	To check rating curves
6.	Kalu	Ellagawa Bridge	-	To check flow capacity
7.	Kalu	Ellagawa	G/S	To check rating curves
8.	Kalu	Halwatura Bridge	-	To check flow capacity
9.	Kalu	Kuda Ganga Confluence	-	To check flow capacity
10.	Kalu	Putupaura	G/S	To check rating curves
11.	Gin	Tawalama	G/S	To check rating curves
12.	Gin	Agaliya	G/S	To check rating curves
13.	Gin	Ganegama	P/S	To check water levels
14.	Gin	Hegoda	P/S	To check water levels
15.	Nilwala	Pittabeddara	G/S	To check rating curves
16.	Nilwala	Bopagoda	G/S	To check rating curves
17.	Nilwala	Akuressa	P/S	To check water levels
18.	Nilwala	Talgahangoda	P/S	To check water levels

Note: G/S - Gauging Station (water level observation) P/S - Pumping Station

1.4 Geodetic Datum

The Datum used for the surveys is the Sri Lanka National Datum established by the Survey Department. The Map Projection being the Transverse Mercator Projection as specified by the Survey Dept. having its origin at Pidurutalagala Trig Station is utilized.

Table I.4.1 Summary of Geodetic Datum

Latitude of Origin	7° 00' 01.7290 N
Longitude of the Central Meridian	80° 46' 18.1600 E
False Northing	200,000 m
False Easting	200,000 m
Scale Factor on Central Meridian	1 : 0.9999238418

The National Grid Values for the river cross sections have been obtained using a Hand held /Portable GPS with reference to the above datum.

1.5 Elevation Datum

All elevations are related to the Sri Lanka National Height Datum, which is Mean Sea Level. Leveling is connected with old Survey Dept. bench marks or with reference TBMs and Gauge Zero's elevations of which were supplied to the surveyors by the Irrigation Dept. The Table below gives the reference to the leveling connection to the respective sites:

Table I.5.1 Elevation Datum

River		Site	Levelling Reference
1.	Kelani	Glencourse	Survey Dept. FBM at Avissawella
2.	Kelani	Hanwella	Irrigation Dept. TBM
3.	Kelani	Kaduwella	Survey Dept. BM No.4 On Kaduwela Bridge
4.	Kelani	Nagalagam	BM established for Colombo Katunayake Expressway Project
5.	Kalu	Ratnapura	Survey Dept. FBM at Ratnapura
6.	Kalu	Ellagawa Bridge	Survey Dept. BM No.45 of PL No.LXIII
7.	Kalu	Ellagawa	-do-
8.	Kalu	Halwatura Bridge	-do-
9.	Kalu	Kalu Ganga Confluence	Survey Dept. BM No.19 of SL CXXXIII
10.	Kalu	Putupaura	Survey Dept. BM No.15 of SL CXXXIII
11.	Gin	Tawalama	Gauge Zero elevation supplied by the Irrigation Dept.
12.	Gin	Agaliya	-do-
13.	Gin	Ganagama	Irrigation Dept. TBM
14.	Gin	Hegoda	-do-
15.	Nilwala	Pittabeddara	Survey Dept. BM No.63 of SL LXXXIV
16.	Nilwala	Bopagoda	Gauge Zero elevation supplied by the Irrigation Dept.
17.	Nilwala	Akuressa	Survey Dept. BM in Akuressa Police Station Premises (formerly Rest House)
18.	Nilwala	Talgahangoda	Irrigation Dept. TBM

All Survey Marks (Bench Mark) established at each CS Site have been heightened by double- run Spirit leveling with mis-closures closing within the required accuracy.

1.6 River Bed Surveys

All river bed levels have been taken using an Echo Sounder. The Echo Sounder was carried attached to a boat along the Cross Section line. The readings taken from the Echo Sounder were converted to the MSL datum with reference to the MSL elevation of the water level of the river at the time of the bed level survey.

1.7 Period of Survey

Details of the dates of the survey are given below:

Table I.7.1 Date of Field Survey Conducted

River		Site	Date of Survey	
			River Basin	River Bed
1.	Kelani	Glencourse	20.05.2007	22.06.2007
2.	Kelani	Hanwella	25.05.2007	20.06.2007
3.	Kelani	Kaduwellla	24.05.2007	14.06.2007
4.	Kelani	Nagalagam	24.05.2007	17.07.2007
5.	Kalu	Ratnapura	25.05.2007	21.06.2007
6.	Kalu	Ellagawa Bridge	25.05.2007	21.06.2007
7.	Kalu	Ellagawa	25.05.2007	21.06.2007
8.	Kalu	Halwatura Bridge	19.06.2007	19.06.2007
9.	Kalu	Kalu Ganga Confluence	19.06.2007	19.06.2007
10.	Kalu	Putupaura	19.06.2007	19.06.2007
11.	Gin	Tawalama	05.06.2007	15.06.2007
12.	Gin	Agaliya	16.06.2007	16.06.2007
13.	Gin	Ganegama	16.06.2007	16.06.2007
14.	Gin	Hegoda	17.06.2007	17.06.2007
15.	Nilwala	Pittabeddara	06.06.2007	06.06.2007
16.	Nilwala	Bopagoda	07.06.2007	07.06.2007
17.	Nilwala	Akuressa	08.06.2007	08.06.2007
18.	Nilwala	Talgahangoda	07.06.2007	08.06.2007

Although the Contractor completed all field works by 21st June 2007, they could not complete the CS No.4 at Nagalagam as the site was strictly restricted to enter for river bed survey without Defense Ministry permission. This caused a unexpected delay and the Contractor should have waited for the security clearance to do the survey. The security clearance was released to the Contractor on 16th July 2007, and soon after the river bed levels were duly measured.

1.8 Surveyed Quantities

The survey quantities and the details of the drawings prepared are listed as follows:.

Table I.8.1 Surveyed Quantities

River	Site	Total Length of CS(m)	Details of Drawings			
			Scales		Sheet Size	
			H	V		
1.	Kelani	Glencourse	165.68	1:500	1:200	A2
2.	Kelani	Hanwella	173.04	1:500	1:200	A2
3.	Kelani	Kaduwella	179.10	1:500	1:200	A2
4.	Kelani	Nagalagam	210.51	1:500	1:200	A2
5.	Kalu	Ratnapura	148.12	1:500	1:200	A2
6.	Kalu	Ellagawa Bridge	75.93	1:500	1:200	A2
7.	Kalu	Ellagawa	119.12	1:500	1:200	A2
8.	Kalu	Halwatura Bridge	234.53	1:500	1:200	A2
9.	Kalu	Kalu Ganga Confluence	165.49	1:500	1:200	A2
10.	Kalu	Putupaura	188.41	1:500	1:200	A2
11.	Gin	Tawalama	167.91	1:500	1:200	A2
12.	Gin	Agaliya	275.63	1:1000	1:100	A2
13.	Gin	Ganegama	420.18	1:1000	1:100	A2
14.	Gin	Hegoda	737.31	1:1000	1:100	A1
15.	Nilwala	Pittabeddara	262.95	1:1000	1:100	A2
16.	Nilwala	Bopagoda	112.93	1:500	1:200	A2
17.	Nilwala	Akuressa	235.69	1:500	1:200	A2
18.	Nilwala	Talgahangoda	361.21	1:1000	1:100	A2

In case of CS No.16, it was not able to extend the right bank survey beyond the point due to objections from the people, who prevented the Contractor from entering their lands. The Contractor had constructed the Survey Mark (BM) on the Right Bank but could not survey it because the people objected at the time of survey.

The Contractor submitted a Survey Mark Location Plan below the CS Profile in each sheet to show the location of the Survey Mark (Bench Mark) with reference to the CS line. MSL Elevations at Gauge Zero as obtained by the survey are given in the respective drawings where the CS locations are at Gauging Stations.

1.9 Materials Delivered

- (1) One set of the under mentioned 1:50,000 Topographical Maps showing the locations of CSS.

Table I.9.1 Location Map Submitted

Topo Map	CS Nos.	River
1. Avissawella	1 & 2	Kelani
2. Colombo	3 & 4	Kelani
3. Ratnapura	5 to 10	Kalu
4. Matugama	11	Gin
5. Ambalangoda	12 & 13	Gin
6. Galle	14	Gin
7. Morawaka	15 to 17	Nilwala
8. Matara	18	Nilwala

- (2) 3 Sets of 18CS Profile drawings (Hard Copies). For details of drawings
- (3) CD containing 18 CS Profile data in Excel format
- (4) 3 Sets of 35 Survey Mark (Bench Mark) Description forms (Hard Copies), with photo of each point pasted to the form, location sketch of the respective point and other required information. (Form for No.16 RBP is not supplied as this Survey Mark could not be surveyed due to objections from the people in the area)
- (5) CD Containing Digital Photos of the photos pasted on the above description forms of the Survey Marks
- (6) CD Containing the soft copies of the Survey Mark Description Forms
- (7) 3 Copies of this Survey Report and a soft copy of same in a CD

1.10 Equipment Used

Following Equipment were used for the survey:

- (1) Hand held / Portable GPS – MAGALLAN Explorist 600 – 14 Channel 3m accuracy.
- (2) SOKKIA Total Stations
- (3) SOKKIA Auto Levels
- (4) SOUTH SDE – 28 Echo Sounder - Transducer with frequency 200 kHz

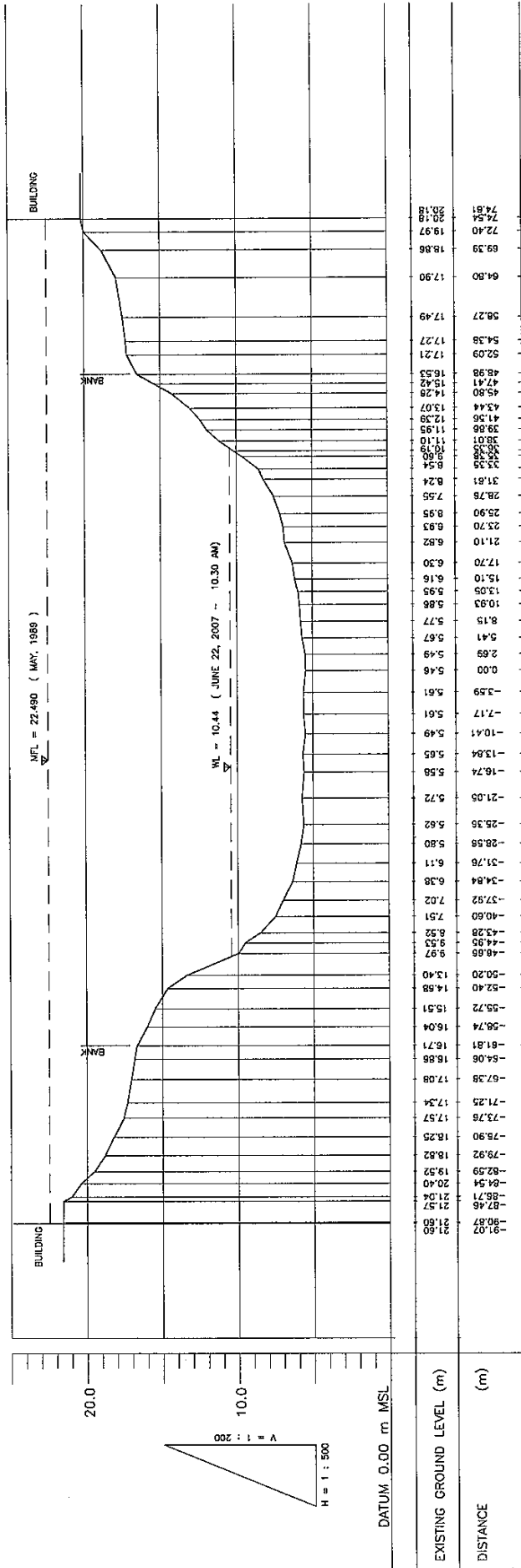
All drawings have been computer drawn to AutoCAD format.

1.11 Staff Engaged

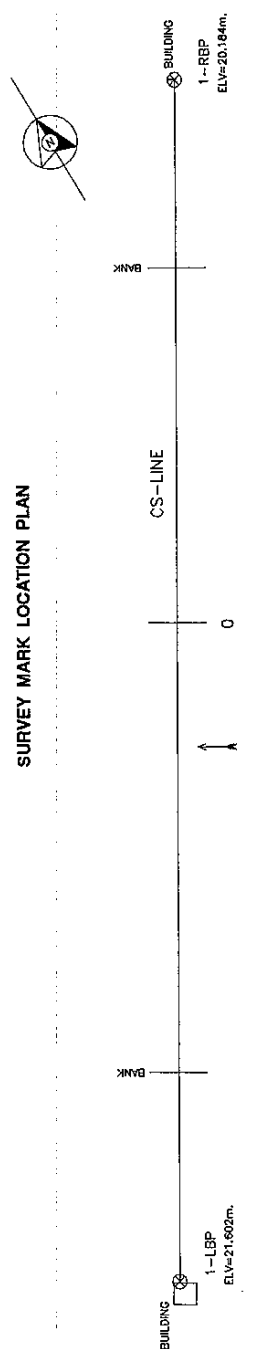
Following are the names of the key personnel who were engaged in the survey work:

- (1) Mr. Gamini B Dodanwela, Chief Surveyor
- (2) Mr. M.W.Perera, Supervising Surveyor
- (3) Mr. S.R.C.Ranaweera, Surveyor
- (4) Mr. R.A.D.Aruna Kumara, Surveyor

CS No.1



SURVEY MARK LOCATION PLAN



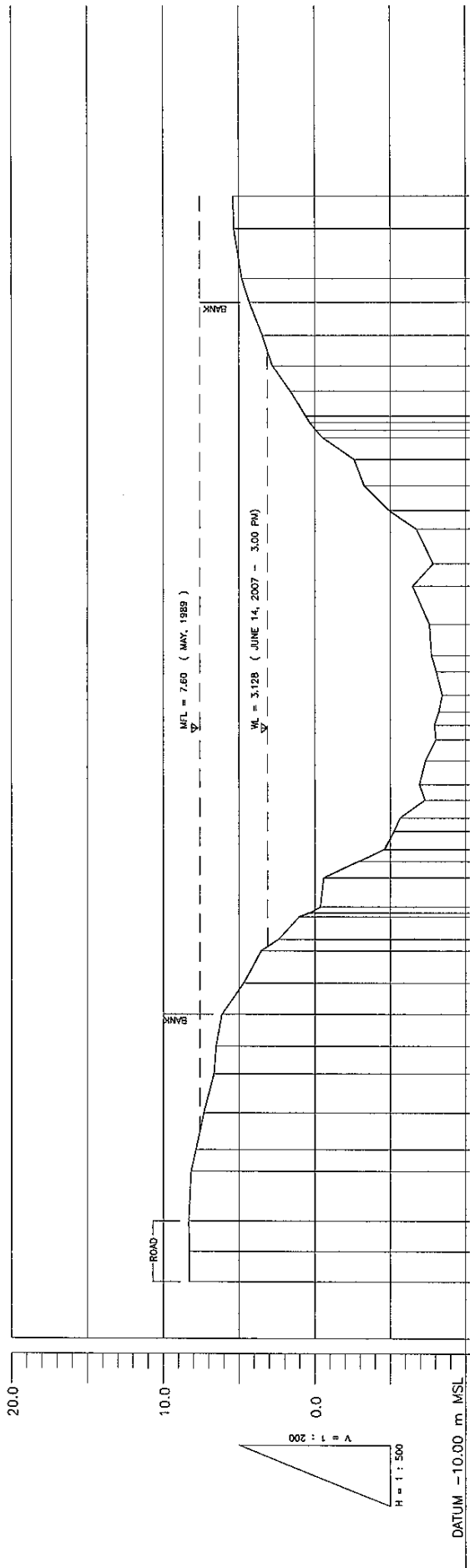
KELANI GANGA

SCALE-1:100

NOTE : ZERO GAUGE ELEVATION = -0.314m.
 (GAUGE HAS BEEN INSTALLED APPROXIMATELY
 TO MSL ELEVATIONS)

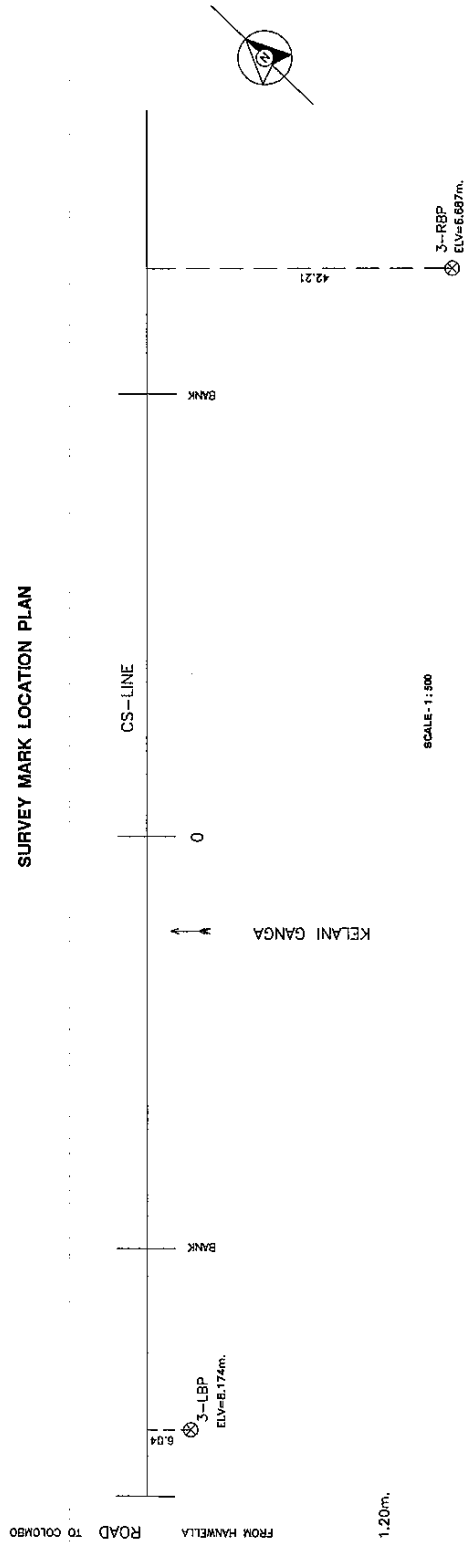
PROJECT : THE COMPREHENSIVE STUDY ON DISASTER MANAGEMENT IN SRI LANKA CLIENT : PACIFIC CONSULTANTS INTERNATIONAL OF JAPAN	PREPARED BY : GAMINI B DODANWELA ASSOCIATES (PVT) LTD. 213/2-22, ANURADHA CHAMANNA MAMPA, KADAMAMMITTA, DERAWA TEL : +94 11 2718991, +94 11 4258148 E-mail: gba@gaminiassociates.com Web: www.gaminiassociates.com	RIVER CROSS SECTION SURVEY OF CS No. 1 AT GLENLCOURSE ALONG KELANI GANGA	DESIGNED BY : CHECKED BY : APPROVED BY : DATE : DWG. NO. : CS-1
			NOTE : THE SURVEY IS ON NATIONAL GRID COORDINATES AND MSL DATUM.

CS No.3



DISTANCE	EXISTING GROUND LEVEL (m)
-96.74	8.29
-91.76	8.33
-86.78	8.33
-78.53	8.17
-75.01	7.87
-68.87	7.33
-62.48	6.67
-57.95	6.54
-52.70	6.15
-47.60	4.73
-42.24	4.58
-40.31	2.41
-39.03	0.37
-38.52	0.37
-38.03	0.37
-30.00	0.59
-27.42	2.91
-25.46	1.60
-22.49	2.25
-20.39	5.86
-17.45	7.30
-14.91	5.93
-10.97	7.34
-7.47	8.02
-5.04	7.94
-2.84	8.22
0.00	8.48
3.82	8.05
6.53	7.75
11.63	7.61
17.98	8.48
21.67	7.83
27.37	8.71
30.48	4.92
34.58	3.28
38.93	-2.60
42.92	1.30
44.87	0.62
46.08	0.62
48.72	4.81
54.30	2.79
59.40	3.46
64.78	4.31
68.72	4.81
76.98	5.34
82.36	5.38

SURVEY MARK LOCATION PLAN



NOTE : ZERO GAUGE ELEVATION = 1.20m.

PROJECT : THE COMPREHENSIVE STUDY ON DISASTER MANAGEMENT IN SRI LANKA
 CLIENT : PACIFIC CONSULTANTS INTERNATIONAL OF JAPAN

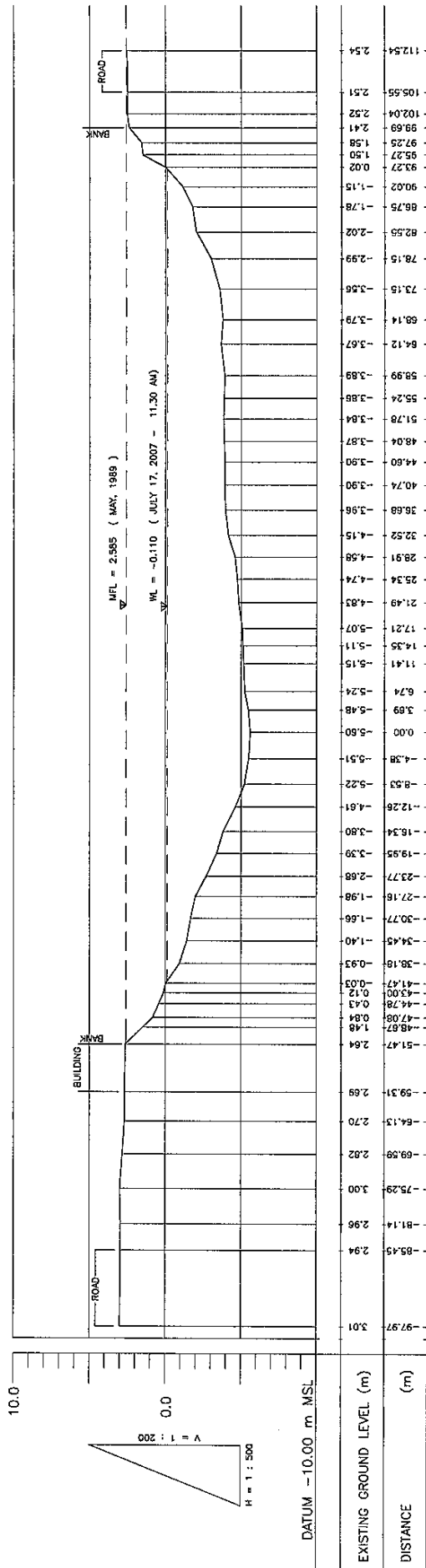
PREPARED BY : GAMINI B DODANWELA ASSOCIATES (PVT) LTD.
 213/C-2/2, ANURADHA DAMODARA MAWATHA, MURUMBATIRIYA, DUMKALA
 TEL : +94 11 2716984 +94 11 2329247 FAX : +94 11 2329148
 E-mail: bdbodan@pcc.com.lk Web: pcc.lk/bdbodan@pcc.com

RIVER CROSS SECTION SURVEY OF CS No.3 AT KADUWELA ALONG KELANI RIVER

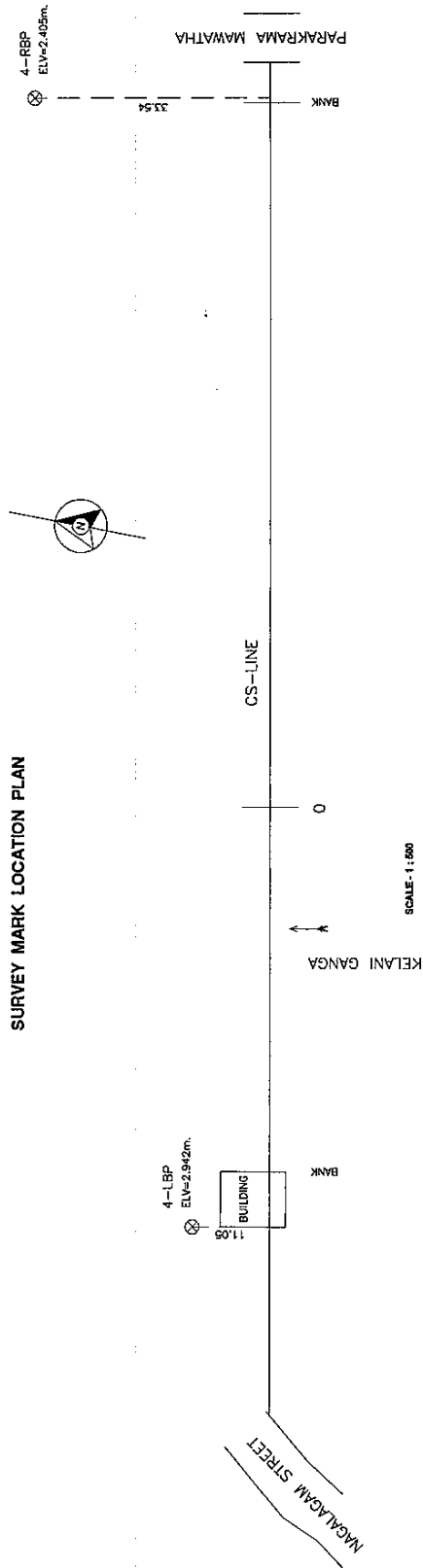
NOTE : THE SURVEY IS ON NATIONAL GRID COORDINATES AND MSL DATUM.

DESIGNED BY:	
DRAWN BY:	YASASIR
APPROVED BY:	
DATE:	JULY 04, 2007
DWG. NO.	CS-3

CS No.4



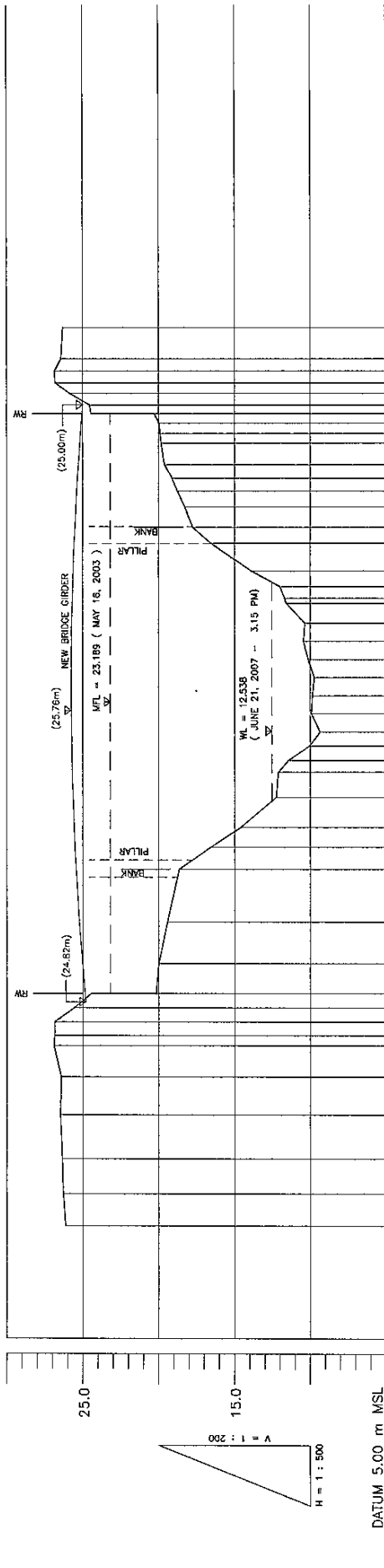
SURVEY MARK LOCATION PLAN



NOTE : ZERO GAUGE ELEVATION = -0.214m.

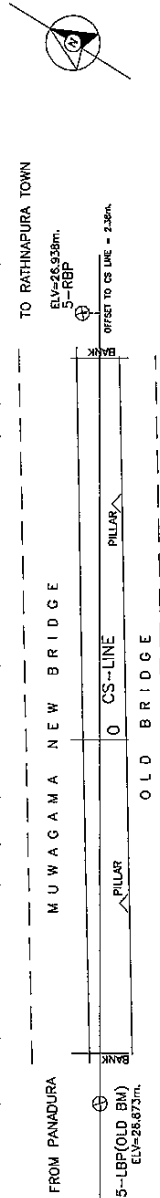
PROJECT :	THE COMPREHENSIVE STUDY ON DISASTER MANAGEMENT IN SRI LANKA	PREPARED BY :	GAMINI B DODANWELA ASSOCIATES PVT. LTD.	DESIGNED BY :	
CLIENT :	PACIFIC CONSULTANTS INTERNATIONAL OF JAPAN	LAND SURVEYORS	213/C-2/2, ANDANAKA DHARMAWALA MAWATHA, KALUWANTITTA, DEDHWALA	APPROVED BY :	Y. Wimala
		TEL : +94 11 2718988, +91 11 4559427	FAX : +94 11 4238148	DATE :	July 15, 2007
		E-mail: Dodanwela@pacific.com	Web: www.pacific.com	DWG. NO. :	CS4
			NOTE : THE SURVEY IS ON NATIONAL GRID COORDINATES AND MSL Datum.		
			RIVER CROSS SECTION SURVEY OF CS No. 4 AT NAGALAGAM ALONG KELANI GANGA		

CS No. 5



EXISTING GROUND LEVEL (m)	DISTANCE (m)
26.32	66.78
26.42	61.61
26.87	59.63
26.81	57.68
26.85	55.68
26.85	53.68
26.85	51.68
26.85	49.68
26.85	47.72
19.84	44.18
19.82	41.87
19.14	39.76
18.78	37.15
18.30	33.74
17.78	31.07
16.56	28.53
13.90	26.53
12.02	23.98
11.70	22.07
11.59	21.27
10.34	18.00
10.44	15.00
10.14	12.00
9.74	9.00
9.84	6.00
9.33	3.00
9.34	0
10.04	-2.36
11.45	-4.73
12.11	-6.50
12.25	-10.75
14.59	-15.58
16.57	-18.88
18.66	-22.53
19.43	-31.28
20.02	-38.15
20.16	-43.04
20.43	-45.37
25.54	-47.68
26.87	-49.91
28.85	-51.59
29.81	-56.72
26.44	-63.05
28.48	-70.34
29.36	-76.14
28.30	-81.34

SURVEY MARK LOCATION PLAN



SCALE: 1:500

NOTE : ZERO GAUGE ELEVATION = 12.658m.

PROJECT : THE COMPREHENSIVE STUDY ON DISASTER MANAGEMENT IN SRI LANKA
 CLIENT : PACIFIC CONSULTANTS INTERNATIONAL OF JAPAN

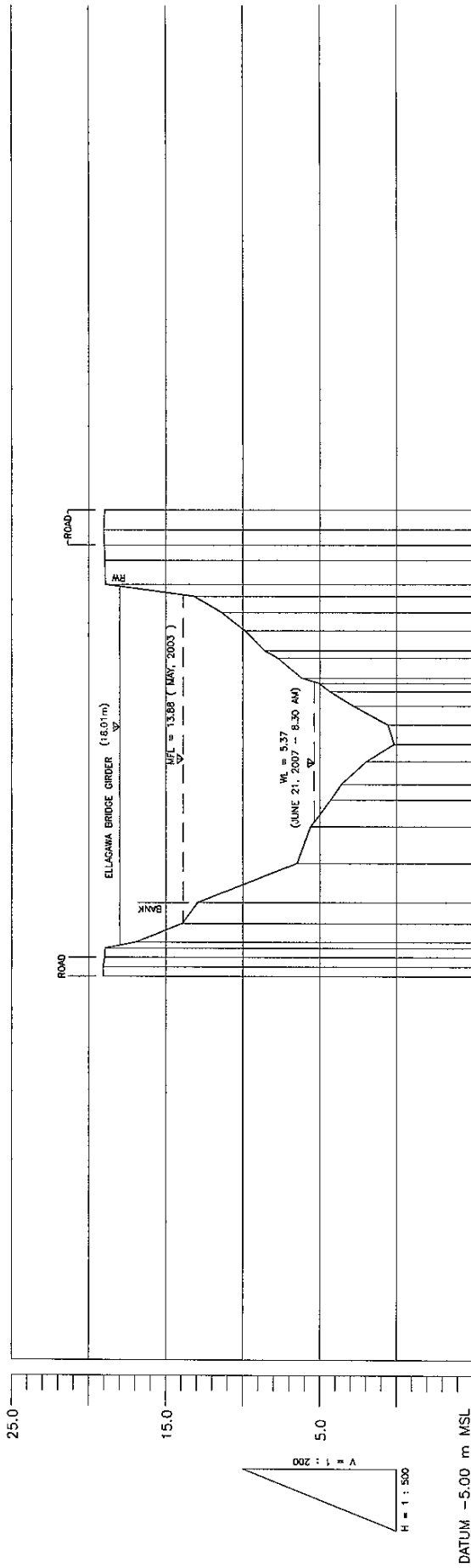
PROPOSED BY : GAMINI B DODANWELLA ASSOCIATES (PVT) LTD.
 233/C-2/2, ANANDIKA, DIKRUWALA MARITTA, KIRINDENIYA, GAMBALA
 TEL : +94 11 2715981, +94 11 4326427 FAX : +94 11 4326148
 E-mail: bdodan@pacific.com.lk Web Site: www.dodanetech.com

RIVER CROSS SECTION SURVEY OF CS No.5 AT RATHNAPURA ALONG KALU GANGA

NOTE : THE SURVEY IS ON NATIONAL GRID COORDINATES AND MSL DATUM.

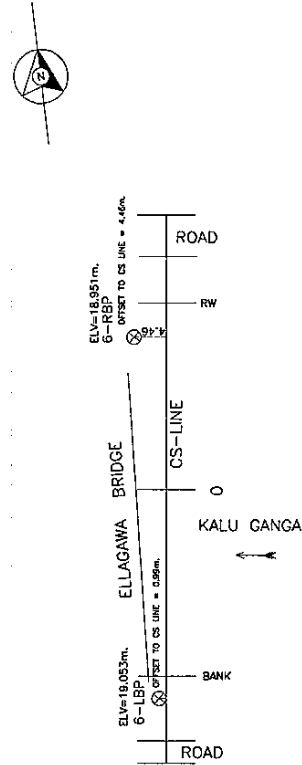
DESIGNED BY:	Y.M.A.S.H
CHECKED BY:	Y.M.A.S.H
APPROVED BY:	Y.M.A.S.H
DATE:	JULY 04, 2007
DWG. NO.	CS-5

CS No.6



DISTANCE	EXISTING GROUND LEVEL (m)
19.06	19.06
19.08	19.08
19.11	19.11
19.14	19.14
19.17	19.17
19.20	19.20
19.22	19.22
19.24	19.24
19.26	19.26
19.28	19.28
19.30	19.30
19.32	19.32
19.34	19.34
19.36	19.36
19.38	19.38
19.40	19.40
19.42	19.42
19.44	19.44
19.46	19.46
19.48	19.48
19.50	19.50
19.52	19.52
19.54	19.54
19.56	19.56
19.58	19.58
19.60	19.60
19.62	19.62
19.64	19.64
19.66	19.66
19.68	19.68
19.70	19.70
19.72	19.72
19.74	19.74
19.76	19.76
19.78	19.78
19.80	19.80
19.82	19.82
19.84	19.84
19.86	19.86
19.88	19.88
19.90	19.90
19.92	19.92
19.94	19.94
19.96	19.96
19.98	19.98
20.00	20.00

SURVEY MARK LOCATION PLAN



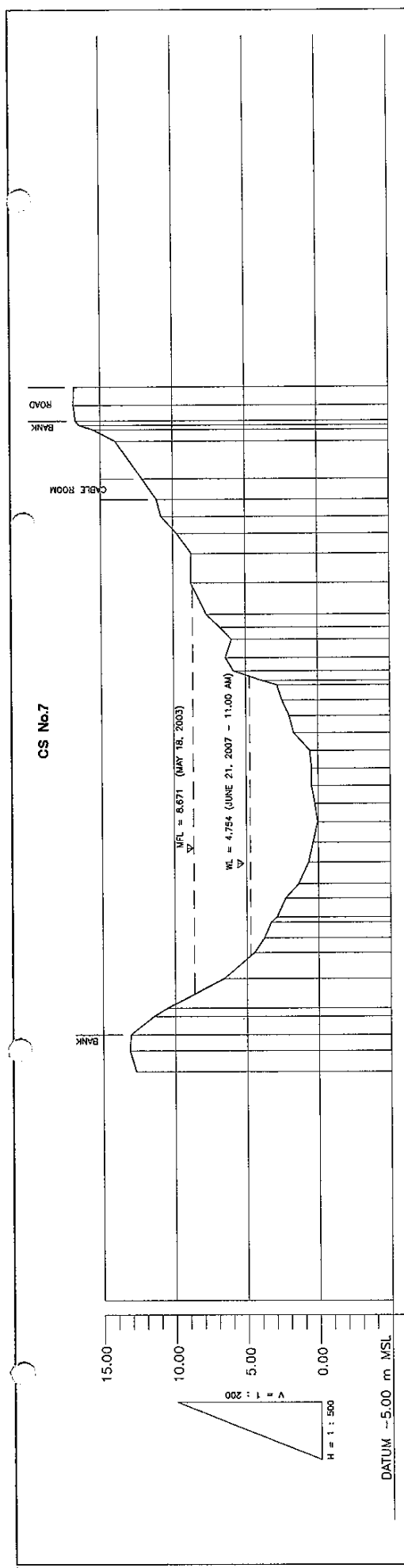
SCALE: 1:500

PROJECT : THE COMPREHENSIVE STUDY ON DISASTER MANAGEMENT IN SRI LANKA
 CLIENT : PACIFIC CONSULTANTS INTERNATIONAL OF JAPAN

PREPARED BY : GAMINI B DODANWELA ASSOCIATES (PVT) LTD.
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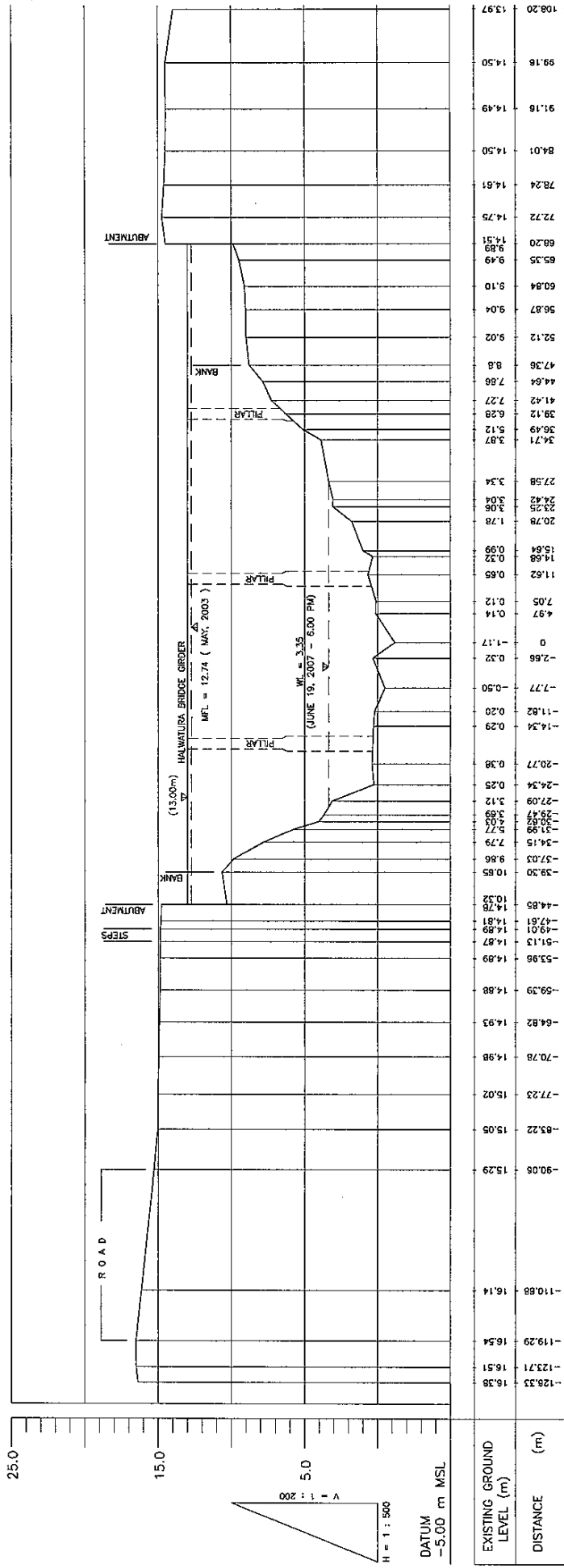
NOTE : THE SURVEY IS ON NATIONAL GRID COORDINATES AND MSL DATUM.
 RIVER CROSS SECTION SURVEY OF CS No.6 AT ELLAGAWA BRIDGE ALONG KALU GANGA

DESIGNED BY :	YASAKI
CHECKED BY :	YASAKI
APPROVED BY :	YASAKI
DATE :	JULY 04, 2007
DWG. NO. :	CS-6

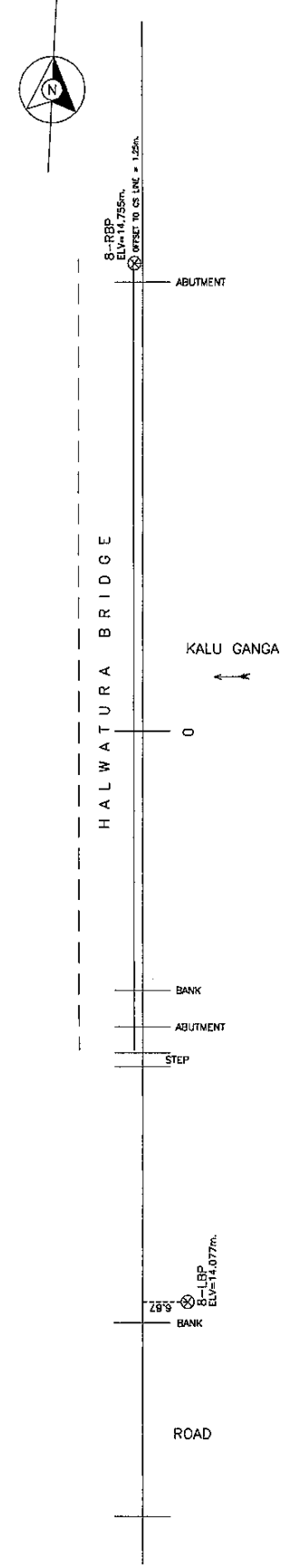


EXISTING GROUND LEVEL (m)	DISTANCE (m)
16.83	12.74
16.86	13.17
16.88	13.09
16.90	10.53
16.92	6.59
16.94	4.47
16.96	3.78
16.98	2.92
17.00	2.31
17.02	1.40
17.04	0.69
17.06	0.00
17.08	0.24
17.10	0.46
17.12	0.69
17.14	0.92
17.16	1.15
17.18	1.38
17.20	1.61
17.22	1.84
17.24	2.07
17.26	2.30
17.28	2.53
17.30	2.76
17.32	2.99
17.34	3.22
17.36	3.45
17.38	3.68
17.40	3.91
17.42	4.14
17.44	4.37
17.46	4.60
17.48	4.83
17.50	5.06
17.52	5.29
17.54	5.52
17.56	5.75
17.58	5.98
17.60	6.21
17.62	6.44
17.64	6.67
17.66	6.90
17.68	7.13
17.70	7.36
17.72	7.59
17.74	7.82
17.76	8.05
17.78	8.28
17.80	8.51
17.82	8.74
17.84	8.97
17.86	9.20
17.88	9.43
17.90	9.66
17.92	9.89
17.94	10.12
17.96	10.35
17.98	10.58
18.00	10.81
18.02	11.04
18.04	11.27
18.06	11.50
18.08	11.73
18.10	11.96
18.12	12.19
18.14	12.42
18.16	12.65
18.18	12.88
18.20	13.11
18.22	13.34
18.24	13.57
18.26	13.80
18.28	14.03
18.30	14.26
18.32	14.49
18.34	14.72
18.36	14.95
18.38	15.18
18.40	15.41
18.42	15.64
18.44	15.87
18.46	16.10
18.48	16.33
18.50	16.56
18.52	16.79
18.54	17.02
18.56	17.25
18.58	17.48
18.60	17.71
18.62	17.94
18.64	18.17
18.66	18.40
18.68	18.63
18.70	18.86
18.72	19.09
18.74	19.32
18.76	19.55
18.78	19.78
18.80	20.01
18.82	20.24
18.84	20.47
18.86	20.70
18.88	20.93
18.90	21.16
18.92	21.39
18.94	21.62
18.96	21.85
18.98	22.08
19.00	22.31
19.02	22.54
19.04	22.77
19.06	23.00
19.08	23.23
19.10	23.46
19.12	23.69
19.14	23.92
19.16	24.15
19.18	24.38
19.20	24.61
19.22	24.84
19.24	25.07
19.26	25.30
19.28	25.53
19.30	25.76
19.32	25.99
19.34	26.22
19.36	26.45
19.38	26.68
19.40	26.91
19.42	27.14
19.44	27.37
19.46	27.60
19.48	27.83
19.50	28.06
19.52	28.29
19.54	28.52
19.56	28.75
19.58	28.98
19.60	29.21
19.62	29.44
19.64	29.67
19.66	29.90
19.68	30.13
19.70	30.36
19.72	30.59
19.74	30.82
19.76	31.05
19.78	31.28
19.80	31.51
19.82	31.74
19.84	31.97
19.86	32.20
19.88	32.43
19.90	32.66
19.92	32.89
19.94	33.12
19.96	33.35
19.98	33.58
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20.04	34.27
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20.08	34.73
20.10	34.96
20.12	35.19
20.14	35.42
20.16	35.65
20.18	35.88
20.20	36.11
20.22	36.34
20.24	36.57
20.26	36.80
20.28	37.03
20.30	37.26
20.32	37.49
20.34	37.72
20.36	37.95
20.38	38.18
20.40	38.41
20.42	38.64
20.44	38.87
20.46	39.10
20.48	39.33
20.50	39.56
20.52	39.79
20.54	40.02
20.56	40.25
20.58	40.48
20.60	40.71
20.62	40.94
20.64	41.17
20.66	41.40
20.68	41.63
20.70	41.86
20.72	42.09
20.74	42.32
20.76	42.55
20.78	42.78
20.80	43.01
20.82	43.24
20.84	43.47
20.86	43.70
20.88	43.93
20.90	44.16
20.92	44.39
20.94	44.62
20.96	44.85
20.98	45.08
21.00	45.31
21.02	45.54
21.04	45.77
21.06	46.00
21.08	46.23
21.10	46.46
21.12	46.69
21.14	46.92
21.16	47.15
21.18	47.38
21.20	47.61
21.22	47.84
21.24	48.07
21.26	48.30
21.28	48.53
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21.32	48.99
21.34	49.22
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21.44	50.37
21.46	50.60
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21.54	51.52
21.56	51.75
21.58	51.98
21.60	52.21
21.62	52.44
21.64	52.67
21.66	52.90
21.68	53.13
21.70	53.36
21.72	53.59
21.74	53.82
21.76	54.05
21.78	54.28
21.80	54.51
21.82	54.74
21.84	54.97
21.86	55.20
21.88	55.43
21.90	55.66
21.92	55.89
21.94	56.12
21.96	56.35
21.98	56.58
22.00	56.81
22.02	57.04
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22.08	57.73
22.10	57.96
22.12	58.19
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22.20	59.11
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22.26	59.80
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22.32	60.49
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22.38	61.18
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22.50	62.56
22.52	62.79
22.54	63.02
22.56	63.25
22.58	63.48
22.60	63.71
22.62	63.94
22.64	64.17
22.66	64.40
22.68	64.63
22.70	64.86
22.72	65.09
22.74	65.32
22.76	65.55
22.78	65.78
22.80	66.01
22.82	66.24
22.84	66.47
22.86	66.70
22.88	66.93
22.90	67.16
22.92	67.39
22.94	67.62
22.96	67.85
22.98	68.08
23.00	68.31
23.02	68.54
23.04	68.77
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23.08	69.23
23.10	69.46
23.12	69.69
23.14	69.92
23.16	70.15
23.18	70.38
23.20	70.61
23.22	70.84
23.24	71.07
23.26	71.30
23.28	71.53
23.30	71.76
23.32	71.99
23.34	72.22
23.36	72.45
23.38	72.68
23.40	72.91
23.42	73.14
23.44	73.37
23.46	73.60
23.48	73.83
23.50	74.06
23.52	74.29
23.54	74.52
23.56	74.75
23.58	74.98
23.60	75.21
23.62	75.44
23.64	75.67
23.66	75.90
23.68	76.13
23.70	76.36
23.72	76.59
23.74	76.82
23.76	77.05
23.78	77.28
23.80	77.51
23.82	77.74
23.84	77.97
23.86	78.20
23.88	78.43
23.90	78.66
23.92	78.89
23.94	79.12
23.96	79.35
23.98	79.58
24.00	79.81
24.02	80.04
24.04	80.27
24.06	80.50
24.08	80.73
24.10	80.96
24.12	81.19
24.14	81.42
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24.18	81.88
24.20	82.11
24.22	82.34
24.24	82.57
24.26	82.80
24.28	83.03
24.30	83.26
24.32	83.49
24.34	83.72
24.36	83.95
24.38	84.18
24.40	84.41
24.42	84.64
24.44	84.87
24.46	85.10
24.48	85.33
24.50	85.56
24.52	85.79
24.54	86.02
24.56	86.25
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24.60	86.71
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24.64	87.17
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24.70	87.86
24.72	88.09
24.74	88.32
24.76	88.55
24.78	88.78
24.80	89.01
24.82	89.24
24.84	89.47
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24.88	89.93
24.90	90.16
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24.96	90.85
24.98	91.08
25.00	91.31
25.02	91.54
25.04	91.77
25.06	92.00
25.08	92.23
25.10	92.46
25.12	92.69
25.14	92.92
25.16	93.15
25.18	93.38
25.20	93.61
25.22	93.84
25.24	94.07
25.26	94.30
25.28	94.53
25.30	94.76
25.32	94.99
25.34	95.22
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25.38	95.68
25.40	95.91
25.42	96.14
25.44	96.37
25.46	96.60
25.48	96.83
25.50	97.06
25.52	97.29
25.54	97.52
25.56	97.75
25.58	97.98
25.60	98.21
25.62	98.44
25.64	98.67
25.66	98.90
25.68	99.13
25.70	99.36
25.72	99.59
25.74	99.82
25.76	100.05
25.78	100.28
25.80	100.51
25.82	100.74
25.84	100.97
25.86	101.20
25.88	101.43
25.90	101.66
25.92	101.89
25.94	102.12
25.96	102.35
25.98	102.58
26.00	102.81
26.02	103.04
26.04	103.27
26.06	103.50
26.08	103.73
26.10	103.96
26.12	104.19
26.14	104.42
26.16	104.65
26.18	104.88
26.20	105.11
26.22	105.34
26.24	105.57
26.26	105.80
26.28	106.03
26.30	106.26
26.32	106.49
26.34	106.72
26.36	106.95
26.38	107.18
26.40	107.41
26.42	107.64
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26.46	108.10
26.48	108.33
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CS No.8



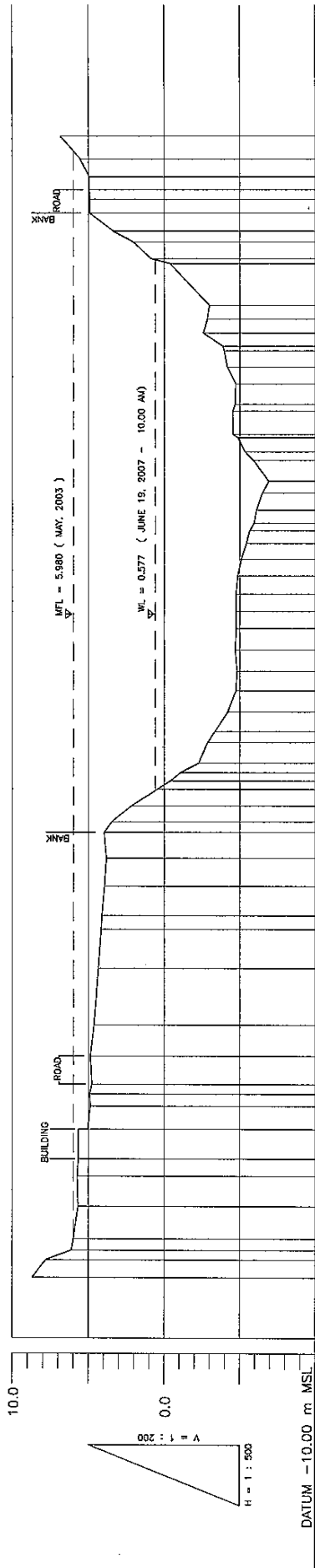
SURVEY MARK LOCATION PLAN



SCALE : 1:800

PROJECT :	THE COMPREHENSIVE STUDY ON	PREPARED BY :	GAMINI B DODANWELA ASSOCIATES (PVT) LTD.	DRAWN BY :	Yasir
	DISASTER MANAGEMENT IN SRI LANKA		LAND SURVEYS		DATE
CLIENT :	PACIFIC CONSULTANTS INTERNATIONAL OF JAPAN		213/C-7/2, ANURADHA DHARMARAJA MAWATHA, KARUNAMITTA, GUNAWALA	APPROVED BY :	Yasir
			TEL : +94 11 2716981, +91 11 4255427, FAX : +94 11 4255418	DATE	14/04/2007
			E-mail: Goda@pacconsult.com Web: www.pacconsult.com	DWG. NO.	CS-8
				NOTE :	THE SURVEY IS ON NATIONAL GRID COORDINATES AND MSL. DATUM.

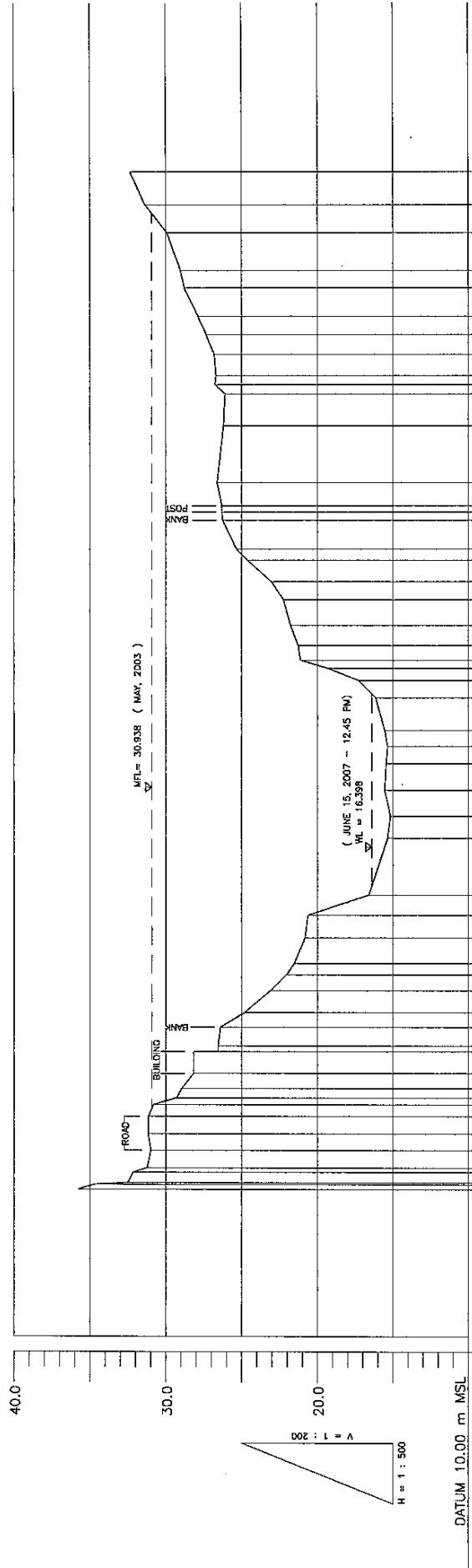
CS No. 10



DATUM -10.00 m MSL

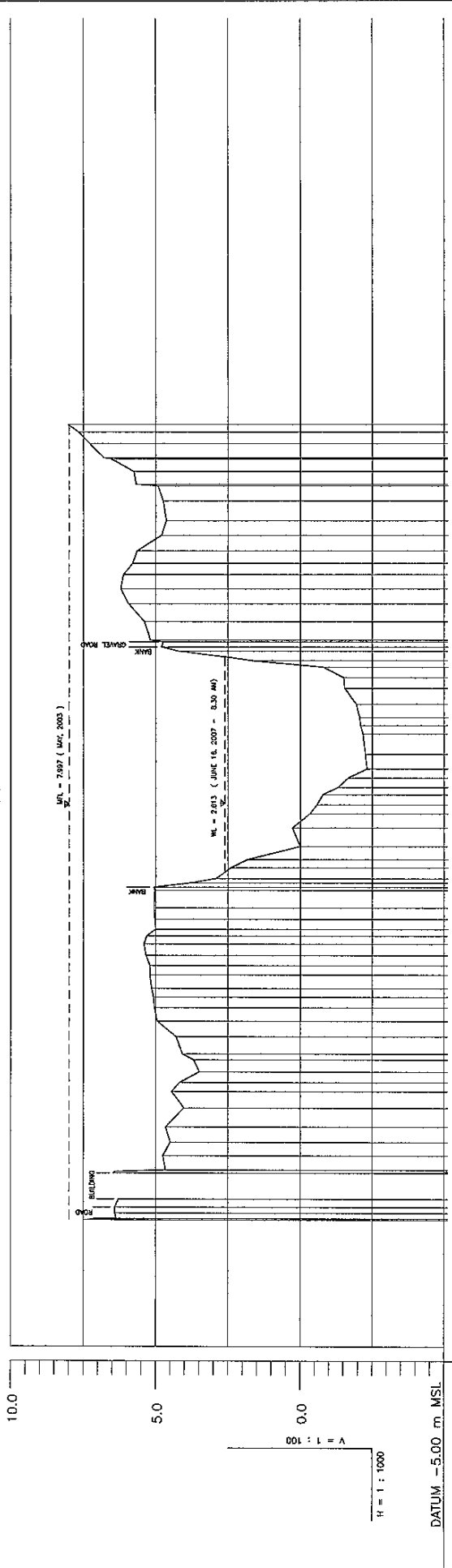
EXISTING GROUND LEVEL (m)	DISTANCE (m)
57.11	131.30
53.27	128.27
49.53	125.75
45.81	122.83
42.33	119.48
38.91	114.46
35.59	108.78
32.35	102.57
29.28	95.92
26.38	88.60
23.58	80.19
20.95	71.53
18.42	62.08
15.98	52.78
13.65	43.56
11.42	34.56
9.28	25.89
7.25	17.89
5.34	10.20
3.53	4.73
1.86	-4.73
0.37	-11.85
-1.10	-18.53
-2.58	-24.28
-4.07	-29.85
-5.56	-35.36
-7.05	-40.81
-8.54	-46.23
-10.03	-51.62
-11.52	-56.99
-13.01	-62.35
-14.50	-67.71
-16.00	-73.08
-17.50	-78.46
-19.00	-83.84
-20.50	-89.21
-22.00	-94.58
-23.50	-99.95
-25.00	-105.32
-26.50	-110.69
-28.00	-116.06
-29.50	-121.43
-31.00	-126.80
-32.50	-132.17
-34.00	-137.54
-35.50	-142.91
-37.00	-148.28
-38.50	-153.65
-40.00	-159.02
-41.50	-164.39
-43.00	-169.76
-44.50	-175.13
-46.00	-180.50
-47.50	-185.87
-49.00	-191.24
-50.50	-196.61
-52.00	-201.98
-53.50	-207.35
-55.00	-212.72
-56.50	-218.09
-58.00	-223.46
-59.50	-228.83
-61.00	-234.20
-62.50	-239.57
-64.00	-244.94
-65.50	-250.31
-67.00	-255.68
-68.50	-261.05
-70.00	-266.42
-71.50	-271.79
-73.00	-277.16
-74.50	-282.53
-76.00	-287.90
-77.50	-293.27
-79.00	-298.64
-80.50	-304.01
-82.00	-309.38
-83.50	-314.75
-85.00	-320.12
-86.50	-325.49
-88.00	-330.86
-89.50	-336.23
-91.00	-341.60
-92.50	-346.97
-94.00	-352.34
-95.50	-357.71
-97.00	-363.08
-98.50	-368.45
-100.00	-373.82
-101.50	-379.19
-103.00	-384.56
-104.50	-389.93
-106.00	-395.30
-107.50	-400.67
-109.00	-406.04
-110.50	-411.41
-112.00	-416.78
-113.50	-422.15
-115.00	-427.52
-116.50	-432.89
-118.00	-438.26
-119.50	-443.63
-121.00	-449.00
-122.50	-454.37
-124.00	-459.74
-125.50	-465.11
-127.00	-470.48
-128.50	-475.85
-130.00	-481.22
-131.50	-486.59
-133.00	-491.96
-134.50	-497.33
-136.00	-502.70
-137.50	-508.07
-139.00	-513.44
-140.50	-518.81
-142.00	-524.18
-143.50	-529.55
-145.00	-534.92
-146.50	-540.29
-148.00	-545.66
-149.50	-551.03
-151.00	-556.40
-152.50	-561.77
-154.00	-567.14
-155.50	-572.51
-157.00	-577.88
-158.50	-583.25
-160.00	-588.62
-161.50	-593.99
-163.00	-599.36
-164.50	-604.73
-166.00	-610.10
-167.50	-615.47
-169.00	-620.84
-170.50	-626.21
-172.00	-631.58
-173.50	-636.95
-175.00	-642.32
-176.50	-647.69
-178.00	-653.06
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-181.00	-663.80
-182.50	-669.17
-184.00	-674.54
-185.50	-679.91
-187.00	-685.28
-188.50	-690.65
-190.00	-696.02
-191.50	-701.39
-193.00	-706.76
-194.50	-712.13
-196.00	-717.50
-197.50	-722.87
-199.00	-728.24
-200.50	-733.61
-202.00	-738.98
-203.50	-744.35
-205.00	-749.72
-206.50	-755.09
-208.00	-760.46
-209.50	-765.83
-211.00	-771.20
-212.50	-776.57
-214.00	-781.94
-215.50	-787.31
-217.00	-792.68
-218.50	-798.05
-220.00	-803.42
-221.50	-808.79
-223.00	-814.16
-224.50	-819.53
-226.00	-824.90
-227.50	-830.27
-229.00	-835.64
-230.50	-841.01
-232.00	-846.38
-233.50	-851.75
-235.00	-857.12
-236.50	-862.49
-238.00	-867.86
-239.50	-873.23
-241.00	-878.60
-242.50	-883.97
-244.00	-889.34
-245.50	-894.71
-247.00	-900.08
-248.50	-905.45
-250.00	-910.82
-251.50	-916.19
-253.00	-921.56
-254.50	-926.93
-256.00	-932.30
-257.50	-937.67
-259.00	-943.04
-260.50	-948.41
-262.00	-953.78
-263.50	-959.15
-265.00	-964.52
-266.50	-969.89
-268.00	-975.26
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-272.50	-991.37
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-275.50	-1002.11
-277.00	-1007.48
-278.50	-1012.85
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-281.50	-1023.59
-283.00	-1028.96
-284.50	-1034.33
-286.00	-1039.70
-287.50	-1045.07
-289.00	-1050.44
-290.50	-1055.81
-292.00	-1061.18
-293.50	-1066.55
-295.00	-1071.92
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-298.00	-1082.66
-299.50	-1088.03
-301.00	-1093.40
-302.50	-1098.77
-304.00	-1104.14
-305.50	-1109.51
-307.00	-1114.88
-308.50	-1120.25
-310.00	-1125.62
-311.50	-1130.99
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-317.50	-1152.47
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-334.00	-1211.54
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-353.50	-1281.35
-355.00	-1286.72
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-358.00	-1297.46
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-373.00	-1351.16
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-380.50	-1378.01
-382.00	-1383.38
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-385.00	-1394.12
-386.50	-1399.49
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-389.50	-1410.23
-391.00	-1415.60
-392.50	-1420.97
-394.00	-1426.34
-395.50	-1431.71
-397.00	-1437.08
-398.50	-1442.45
-400.00	-1447.82
-401.50	-1453.19
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-442.00	-1598.18
-443.50	-1603.55
-445.00	-1608.92
-446.50	-1614.29
-448.00	-1619.66
-449.50	-1625.03
-451.00	-1630.40
-452.50	-1635.77
-454.00	-1641.14
-455.50	-1646.51
-457.00	-1651.88
-458.50	-1657.25
-460.00	-1662.62
-461.50	-1667.99
-463.00	-1673.36
-464.50	-1678.73
-466.00	-1684.10
-467.50	-1689.47
-469.00	-1694.84
-470.50	-1700.21
-472.00	-1705.58
-473.50	-1710.95
-475.00	-1716.32
-476.50	-1721.69
-478.00	-1727.06
-479.50	-1732.43
-481.00	-1737.80
-482.50	-1743.17
-484.00	-1748.54
-485.50	-1753.91
-487.00	-1759.28
-488.50	-1764.65
-490.00	-1770.02
-491.50	-1775.39
-493.00	-1780.76
-494.50	-1786.13
-496.00	-1791.50
-497.50	-1796.87
-499.00	-1802.24
-500.50	-1807.61
-502.00	-1812.98
-503.50	-1818.35
-505.00	-1823.72
-506.50	-1829.09
-508.00	-1834.46
-509.50	-1839.83
-511.00	-1845.20
-512.50	-1850.57
-514.00	-1855.94
-515.50	-1861.31
-517.00	-1866.68
-518.50	-1872.05
-520.00	-1877.42
-521.50	-1882.79
-523.00	-1888.16
-524.50	-1893.53
-526.00	-1898.90
-527.50	-1904.27
-529.00	-1909.64
-530.50	-1915.01
-532.00	-1920.38
-533.50	-1925.75
-535.00	-1931.12
-536.50	-1936.49
-538.00	-1941.86
-539.50	-1947.23
-541.00	-1952.60
-542.50	-1957.97
-544.00	-1963.34
-545.50	-1968.71
-547.00	-1974.08
-548.50	-1979.45
-550.00	-1984.82
-551.50	-1990.19
-553.00	-1995.56
-554.50	-2000.93
-556.00	-2006.30
-557.50	-2011.67
-559.00	-2017.04
-560.50	-2022.41
-562.00	-2027.78
-563.50	-2033.15
-565.00	-2038.52
-566.50	-2043.89
-568.00	-2049.26
-569.50	-2054.63
-571.00	-2060.00
-572.50	-2065.37
-574.00	-2070.74
-575.50	-2076.11
-577.00	-2081.48
-578.50	-2086.85
-580.00	-2092.22
-581.50	-2097.59
-583.00	-2102.96
-584.50	-2108.33
-586.00	-2113.70
-587.50	-2119.07
-589.00	-2124.44
-590.50	-2129.81
-592.00	-2135.18
-593.50	-2140.55
-595.00	-2145.92
-596.50	-2151.29
-598.00	-2156.66
-599.50	-2162.03
-601.00	-2167.40
-602.50	-2172.77
-604.00	-2178.14
-605.50	-2183.51
-607.00	-2188.88
-608.50	-2194.25
-610.00	-2199.62
-611.50	-2204.99
-613.00	-2210.36
-614.50	-2215.73
-616.00	-2221.10
-617.50	-2226.47
-619.00	-2231.84
-620.50	-2237.21
-622.00	-2242.58
-623.50	-2247.95
-625.00	-2253.32
-626.50	-2258.69
-628.00</	

CS No. 11



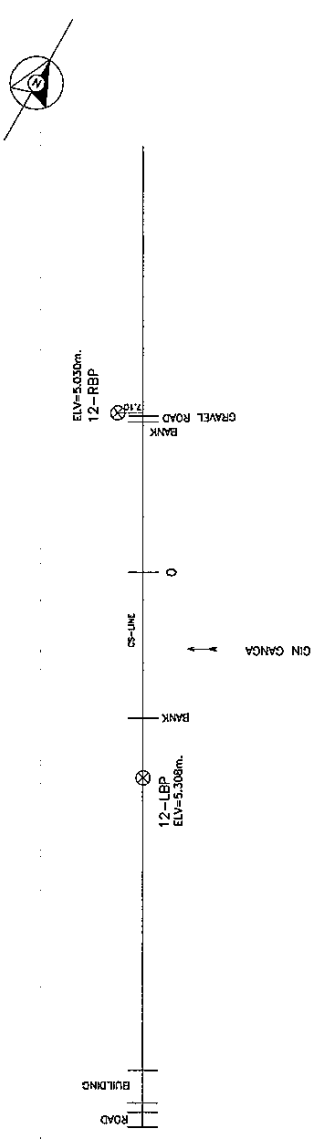
EXISTING GROUND LEVEL (m)	DISTANCE (m)
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11.53	3.17
12.53	5.00
13.53	6.83
14.53	8.71
15.54	10.54
16.13	12.39
17.26	14.20
17.34	15.34
18.34	16.13
19.34	17.26
19.34	18.34
20.64	19.34
20.64	20.64
21.53	21.53
22.06	22.06
22.77	22.77
23.11	23.11
24.81	24.81
24.81	24.81
26.81	26.81
26.81	26.81
28.18	28.18
28.18	28.18
28.97	28.97
28.97	28.97
29.97	29.97
29.97	29.97
31.14	31.14
31.14	31.14
31.17	31.17
31.17	31.17
31.01	31.01
31.01	31.01
32.30	32.30
32.30	32.30
34.15	34.15
34.15	34.15
35.52	35.52
35.52	35.52
37.96	37.96
37.96	37.96
40.39	40.39
40.39	40.39
42.40	42.40
42.40	42.40
44.94	44.94
44.94	44.94
46.95	46.95
46.95	46.95
48.96	48.96
48.96	48.96
50.97	50.97
50.97	50.97
52.98	52.98
52.98	52.98
54.99	54.99
54.99	54.99
57.00	57.00
57.00	57.00
59.01	59.01
59.01	59.01
61.02	61.02
61.02	61.02
63.03	63.03
63.03	63.03
65.04	65.04
65.04	65.04
67.05	67.05
67.05	67.05
69.06	69.06
69.06	69.06
71.07	71.07
71.07	71.07
73.08	73.08
73.08	73.08
75.09	75.09
75.09	75.09
77.10	77.10
77.10	77.10
79.11	79.11
79.11	79.11
81.12	81.12
81.12	81.12
83.13	83.13
83.13	83.13
85.14	85.14
85.14	85.14
87.15	87.15
87.15	87.15
89.16	89.16
89.16	89.16
91.17	91.17
91.17	91.17
93.18	93.18
93.18	93.18
95.19	95.19
95.19	95.19
97.20	97.20
97.20	97.20
99.21	99.21
99.21	99.21
101.22	101.22
101.22	101.22
103.23	103.23
103.23	103.23
105.24	105.24
105.24	105.24
107.25	107.25
107.25	107.25
109.26	109.26
109.26	109.26
111.27	111.27
111.27	111.27
113.28	113.28
113.28	113.28
115.29	115.29
115.29	115.29
117.30	117.30
117.30	117.30
119.31	119.31
119.31	119.31
121.32	121.32
121.32	121.32
123.33	123.33
123.33	123.33
125.34	125.34
125.34	125.34
127.35	127.35
127.35	127.35
129.36	129.36
129.36	129.36
131.37	131.37
131.37	131.37
133.38	133.38
133.38	133.38
135.39	135.39
135.39	135.39
137.40	137.40
137.40	137.40
139.41	139.41
139.41	139.41
141.42	141.42
141.42	141.42
143.43	143.43
143.43	143.43
145.44	145.44
145.44	145.44
147.45	147.45
147.45	147.45
149.46	149.46
149.46	149.46
151.47	151.47
151.47	151.47
153.48	153.48
153.48	153.48
155.49	155.49
155.49	155.49
157.50	157.50
157.50	157.50
159.51	159.51
159.51	159.51
161.52	161.52
161.52	161.52
163.53	163.53
163.53	163.53
165.54	165.54
165.54	165.54
167.55	167.55
167.55	167.55
169.56	169.56
169.56	169.56
171.57	171.57
171.57	171.57
173.58	173.58
173.58	173.58
175.59	175.59
175.59	175.59
177.60	177.60
177.60	177.60
179.61	179.61
179.61	179.61
181.62	181.62
181.62	181.62
183.63	183.63
183.63	183.63
185.64	185.64
185.64	185.64
187.65	187.65
187.65	187.65
189.66	189.66
189.66	189.66
191.67	191.67
191.67	191.67
193.68	193.68
193.68	193.68
195.69	195.69
195.69	195.69
197.70	197.70
197.70	197.70
199.71	199.71
199.71	199.71
201.72	201.72
201.72	201.72
203.73	203.73
203.73	203.73
205.74	205.74
205.74	205.74
207.75	207.75
207.75	207.75
209.76	209.76
209.76	209.76
211.77	211.77
211.77	211.77
213.78	213.78
213.78	213.78
215.79	215.79
215.79	215.79
217.80	217.80
217.80	217.80
219.81	219.81
219.81	219.81
221.82	221.82
221.82	221.82
223.83	223.83
223.83	223.83
225.84	225.84
225.84	225.84
227.85	227.85
227.85	227.85
229.86	229.86
229.86	229.86
231.87	231.87
231.87	231.87
233.88	233.88
233.88	233.88
235.89	235.89
235.89	235.89
237.90	237.90
237.90	237.90
239.91	239.91
239.91	239.91
241.92	241.92
241.92	241.92
243.93	243.93
243.93	243.93
245.94	245.94
245.94	245.94
247.95	247.95
247.95	247.95
249.96	249.96
249.96	249.96
251.97	251.97
251.97	251.97
253.98	253.98
253.98	253.98
255.99	255.99
255.99	255.99
257.00	257.00
257.00	257.00
259.01	259.01
259.01	259.01
261.02	261.02
261.02	261.02
263.03	263.03
263.03	263.03
265.04	265.04
265.04	265.04
267.05	267.05
267.05	267.05
269.06	269.06
269.06	269.06
271.07	271.07
271.07	271.07
273.08	273.08
273.08	273.08
275.09	275.09
275.09	275.09
277.10	277.10
277.10	277.10
279.11	279.11
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281.12	281.12
281.12	281.12
283.13	283.13
283.13	283.13
285.14	285.14
285.14	285.14
287.15	287.15
287.15	287.15
289.16	289.16
289.16	289.16
291.17	291.17
291.17	291.17
293.18	293.18
293.18	293.18
295.19	295.19
295.19	295.19
297.20	297.20
297.20	297.20
299.21	299.21
299.21	299.21
301.22	301.22
301.22	301.22
303.23	303.23
303.23	303.23
305.24	305.24
305.24	305.24
307.25	307.25
307.25	307.25
309.26	309.26
309.26	309.26
311.27	311.27
311.27	311.27
313.28	313.28
313.28	313.28
315.29	315.29
315.29	315.29
317.30	317.30
317.30	317.30
319.31	319.31
319.31	319.31
321.32	321.32
321.32	321.32
323.33	323.33
323.33	323.33
325.34	325.34
325.34	325.34
327.35	327.35
327.35	327.35
329.36	329.36
329.36	329.36
331.37	331.37
331.37	331.37
333.38	333.38
333.38	333.38
335.39	335.39
335.39	335.39
337.40	337.40
337.40	337.40
339.41	339.41
339.41	339.41
341.42	341.42
341.42	341.42
343.43	343.43
343.43	343.43
345.44	345.44
345.44	345.44
347.45	347.45
347.45	347.45
349.46	349.46
349.46	349.46
351.47	351.47
351.47	351.47
353.48	353.48
353.48	353.48
355.49	355.49
355.49	355.49
357.50	357.50
357.50	357.50
359.51	359.51
359.51	359.51
361.52	361.52
361.52	361.52
363.53	363.53
363.53	363.53
365.54	365.54
365.54	365.54
367.55	367.55
367.55	367.55
369.56	369.56
369.56	369.56
371.57	371.57
371.57	371.57
373.58	373.58
373.58	373.58
375.59	375.59
375.59	375.59
377.60	377.60
377.60	377.60
379.61	379.61
379.61	379.61
381.62	381.62
381.62	381.62
383.63	383.63
383.63	383.63
385.64	385.64
385.64	385.64
387.65	387.65
387.65	387.65
389.66	389.66
389.66	389.66
391.67	391.67
391.67	391.67
393.68	393.68
393.68	393.68
395.69	395.69
395.69	395.69
397.70	397.70
397.70	397.70
399.71	399.71
399.71	399.71
401.72	401.72
401.72	401.72
403.73	403.73
403.73	403.73
405.74	405.74
405.74	405.74
407.75	407.75
407.75	407.75
409.76	409.76
409.76	409.76
411.77	411.77
411.77	411.77
413.78	413.78
413.78	413.78
415.79	415.79
415.79	415.79
417.80	417.80
417.80	417.80
419.81	419.81
419.81	419.81
421.82	421.82
421.82	421.82
423.83	423.83
423.83	423.83
425.84	425.84
425.84	425.84
427.85	427.85
427.85	427.85
429.86	429.86
429.86	429.86
431.87	431.87
431.87	431.87
433.88	433.88
433.88	433.88
435.89	435.89
435.89	435.89
437.90	437.90
437.90	437.90
439.91	439.91
439.91	439.91
441.92	441.92
441.92	441.92
443.93	443.93
443.93	443.93
445.94	445.94
445.94	445.94
447.95	447.95
447.95	447.95
449.96	449.96
4	

CS No. 12



EXISTING GROUND LEVEL (m)	DISTANCE (m)
119.27	0.00
118.95	0.25
117.96	0.50
117.24	0.75
116.92	1.00
116.59	1.25
116.27	1.50
115.94	1.75
115.62	2.00
115.29	2.25
114.97	2.50
114.64	2.75
114.32	3.00
113.99	3.25
113.67	3.50
113.34	3.75
113.02	4.00
112.69	4.25
112.37	4.50
112.04	4.75
111.72	5.00
111.39	5.25
111.07	5.50
110.74	5.75
110.42	6.00
110.09	6.25
109.77	6.50
109.44	6.75
109.12	7.00
108.79	7.25
108.47	7.50
108.14	7.75
107.82	8.00
107.49	8.25
107.17	8.50
106.84	8.75
106.52	9.00
106.19	9.25
105.87	9.50
105.54	9.75
105.22	10.00
104.89	10.25
104.57	10.50
104.24	10.75
103.92	11.00
103.59	11.25
103.27	11.50
102.94	11.75
102.62	12.00
102.29	12.25
101.97	12.50
101.64	12.75
101.32	13.00
100.99	13.25
100.67	13.50
100.34	13.75
100.02	14.00
99.69	14.25
99.37	14.50
99.04	14.75
98.72	15.00
98.39	15.25
98.07	15.50
97.74	15.75
97.42	16.00
97.09	16.25
96.77	16.50
96.44	16.75
96.12	17.00
95.79	17.25
95.47	17.50
95.14	17.75
94.82	18.00
94.49	18.25
94.17	18.50
93.84	18.75
93.52	19.00
93.19	19.25
92.87	19.50
92.54	19.75
92.22	20.00
91.89	20.25
91.57	20.50
91.24	20.75
90.92	21.00
90.59	21.25
90.27	21.50
89.94	21.75
89.62	22.00
89.29	22.25
88.97	22.50
88.64	22.75
88.32	23.00
87.99	23.25
87.67	23.50
87.34	23.75
87.02	24.00
86.69	24.25
86.37	24.50
86.04	24.75
85.72	25.00
85.39	25.25
85.07	25.50
84.74	25.75
84.42	26.00
84.09	26.25
83.77	26.50
83.44	26.75
83.12	27.00
82.79	27.25
82.47	27.50
82.14	27.75
81.82	28.00
81.49	28.25
81.17	28.50
80.84	28.75
80.52	29.00
80.19	29.25
79.87	29.50
79.54	29.75
79.22	30.00
78.89	30.25
78.57	30.50
78.24	30.75
77.92	31.00
77.59	31.25
77.27	31.50
76.94	31.75
76.62	32.00
76.29	32.25
75.97	32.50
75.64	32.75
75.32	33.00
74.99	33.25
74.67	33.50
74.34	33.75
74.02	34.00
73.69	34.25
73.37	34.50
73.04	34.75
72.72	35.00
72.39	35.25
72.07	35.50
71.74	35.75
71.42	36.00
71.09	36.25
70.77	36.50
70.44	36.75
70.12	37.00
69.79	37.25
69.47	37.50
69.14	37.75
68.82	38.00
68.49	38.25
68.17	38.50
67.84	38.75
67.52	39.00
67.19	39.25
66.87	39.50
66.54	39.75
66.22	40.00
65.89	40.25
65.57	40.50
65.24	40.75
64.92	41.00
64.59	41.25
64.27	41.50
63.94	41.75
63.62	42.00
63.29	42.25
62.97	42.50
62.64	42.75
62.32	43.00
61.99	43.25
61.67	43.50
61.34	43.75
61.02	44.00
60.69	44.25
60.37	44.50
60.04	44.75
59.72	45.00
59.39	45.25
59.07	45.50
58.74	45.75
58.42	46.00
58.09	46.25
57.77	46.50
57.44	46.75
57.12	47.00
56.79	47.25
56.47	47.50
56.14	47.75
55.82	48.00
55.49	48.25
55.17	48.50
54.84	48.75
54.52	49.00
54.19	49.25
53.87	49.50
53.54	49.75
53.22	50.00
52.89	50.25
52.57	50.50
52.24	50.75
51.92	51.00
51.59	51.25
51.27	51.50
50.94	51.75
50.62	52.00
50.29	52.25
49.97	52.50
49.64	52.75
49.32	53.00
48.99	53.25
48.67	53.50
48.34	53.75
48.02	54.00
47.69	54.25
47.37	54.50
47.04	54.75
46.72	55.00
46.39	55.25
46.07	55.50
45.74	55.75
45.42	56.00
45.09	56.25
44.77	56.50
44.44	56.75
44.12	57.00
43.79	57.25
43.47	57.50
43.14	57.75
42.82	58.00
42.49	58.25
42.17	58.50
41.84	58.75
41.52	59.00
41.19	59.25
40.87	59.50
40.54	59.75
40.22	60.00
39.89	60.25
39.57	60.50
39.24	60.75
38.92	61.00
38.59	61.25
38.27	61.50
37.94	61.75
37.62	62.00
37.29	62.25
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36.64	62.75
36.32	63.00
35.99	63.25
35.67	63.50
35.34	63.75
35.02	64.00
34.69	64.25
34.37	64.50
34.04	64.75
33.72	65.00
33.39	65.25
33.07	65.50
32.74	65.75
32.42	66.00
32.09	66.25
31.77	66.50
31.44	66.75
31.12	67.00
30.79	67.25
30.47	67.50
30.14	67.75
29.82	68.00
29.49	68.25
29.17	68.50
28.84	68.75
28.52	69.00
28.19	69.25
27.87	69.50
27.54	69.75
27.22	70.00
26.89	70.25
26.57	70.50
26.24	70.75
25.92	71.00
25.59	71.25
25.27	71.50
24.94	71.75
24.62	72.00
24.29	72.25
23.97	72.50
23.64	72.75
23.32	73.00
22.99	73.25
22.67	73.50
22.34	73.75
22.02	74.00
21.69	74.25
21.37	74.50
21.04	74.75
20.72	75.00
20.39	75.25
20.07	75.50
19.74	75.75
19.42	76.00
19.09	76.25
18.77	76.50
18.44	76.75
18.12	77.00
17.79	77.25
17.47	77.50
17.14	77.75
16.82	78.00
16.49	78.25
16.17	78.50
15.84	78.75
15.52	79.00
15.19	79.25
14.87	79.50
14.54	79.75
14.22	80.00
13.89	80.25
13.57	80.50
13.24	80.75
12.92	81.00
12.59	81.25
12.27	81.50
11.94	81.75
11.62	82.00
11.29	82.25
10.97	82.50
10.64	82.75
10.32	83.00
9.99	83.25
9.67	83.50
9.34	83.75
9.02	84.00
8.69	84.25
8.37	84.50
8.04	84.75
7.72	85.00
7.39	85.25
7.07	85.50
6.74	85.75
6.42	86.00
6.09	86.25
5.77	86.50
5.44	86.75
5.12	87.00
4.79	87.25
4.47	87.50
4.14	87.75
3.82	88.00
3.49	88.25
3.17	88.50
2.84	88.75
2.52	89.00
2.19	89.25
1.87	89.50
1.54	89.75
1.22	90.00
0.89	90.25
0.57	90.50
0.24	90.75
0.00	91.00

SURVEY MARK LOCATION PLAN



NOTE : ZERO GAUGE ELEVATION = -0.021m.

PROJECT : THE COMPREHENSIVE STUDY ON DISASTER MANAGEMENT IN SRI LANKA
 CLIENT : PACIFIC CONSULTANTS INTERNATIONAL OF JAPAN

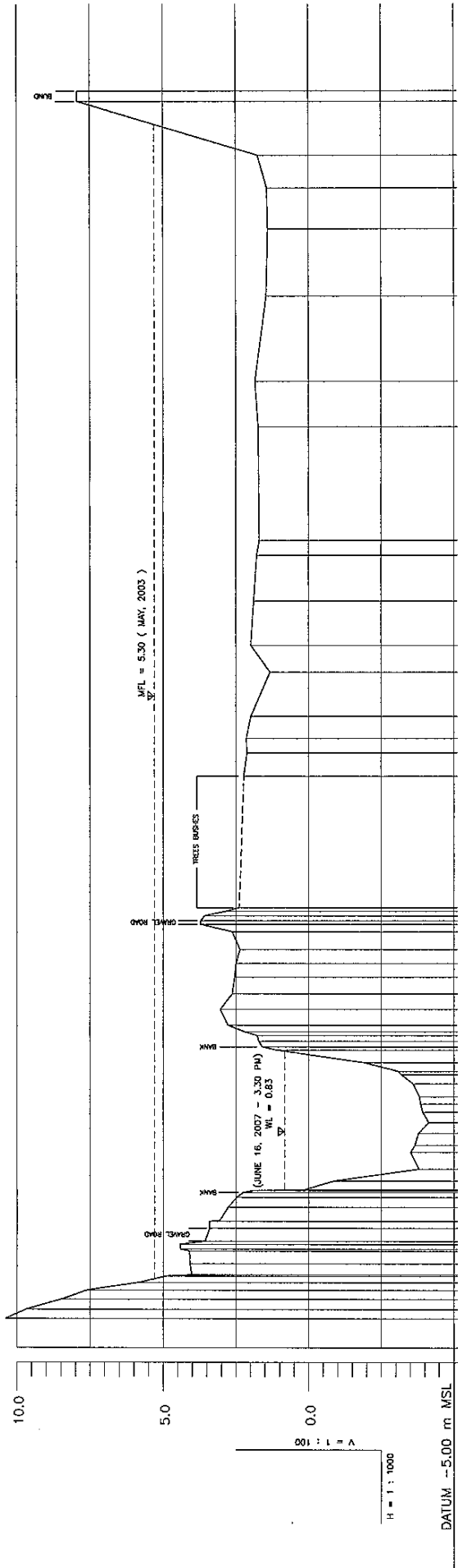
PREPARED BY : GAMINI B DODANWELA ASSOCIATES (PVT) LTD.
 313/C-72, ANURADHA BHAWAN, WARD 10, KARUNAPATTANA, COLOMBO
 E-mail: gbodan@pacs.lk Web: www.gbodan.lk

RIVER CROSS SECTION SURVEY OF CS No. 12 AT AGALIYA ALONG GIN GANGA

DESIGNED BY:	Y. Mahesh
CHECKED BY:	Y. Mahesh
APPROVED BY:	Y. Mahesh
DATE:	July 04, 2007
DIWG. NO.:	CS-12

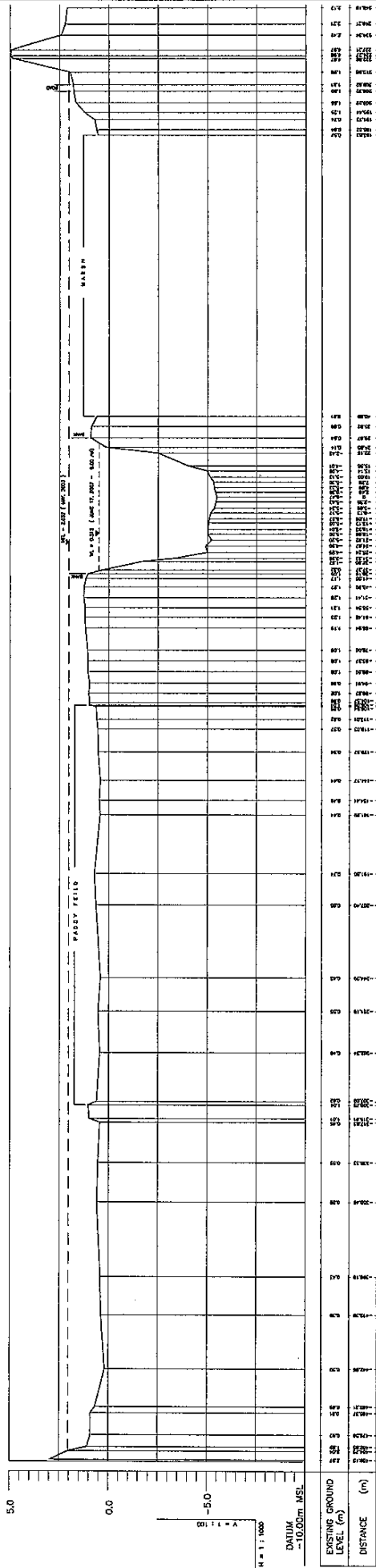
NOTE : THE SURVEY IS ON NATIONAL GRID COORDINATES AND NSE DATUM.

CS No. 13

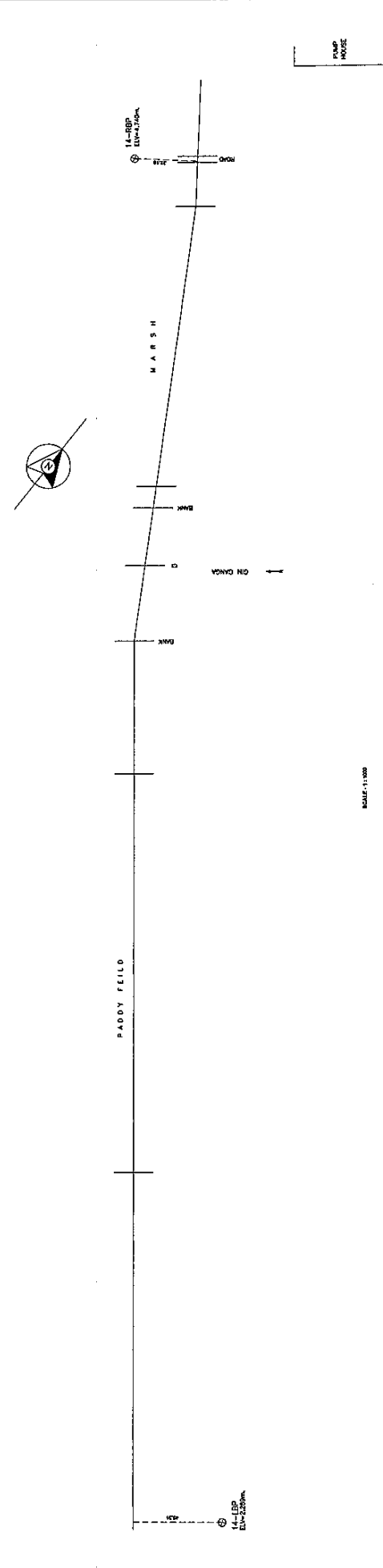


EXISTING GROUND LEVEL (m)	DISTANCE (m)
10.40	0.00
10.30	0.50
10.20	1.00
10.10	1.50
10.00	2.00
9.90	2.50
9.80	3.00
9.70	3.50
9.60	4.00
9.50	4.50
9.40	5.00
9.30	5.50
9.20	6.00
9.10	6.50
9.00	7.00
8.90	7.50
8.80	8.00
8.70	8.50
8.60	9.00
8.50	9.50
8.40	10.00
8.30	10.50
8.20	11.00
8.10	11.50
8.00	12.00
7.90	12.50
7.80	13.00
7.70	13.50
7.60	14.00
7.50	14.50
7.40	15.00
7.30	15.50
7.20	16.00
7.10	16.50
7.00	17.00
6.90	17.50
6.80	18.00
6.70	18.50
6.60	19.00
6.50	19.50
6.40	20.00
6.30	20.50
6.20	21.00
6.10	21.50
6.00	22.00
5.90	22.50
5.80	23.00
5.70	23.50
5.60	24.00
5.50	24.50
5.40	25.00
5.30	25.50
5.20	26.00
5.10	26.50
5.00	27.00
4.90	27.50
4.80	28.00
4.70	28.50
4.60	29.00
4.50	29.50
4.40	30.00
4.30	30.50
4.20	31.00
4.10	31.50
4.00	32.00
3.90	32.50
3.80	33.00
3.70	33.50
3.60	34.00
3.50	34.50
3.40	35.00
3.30	35.50
3.20	36.00
3.10	36.50
3.00	37.00
2.90	37.50
2.80	38.00
2.70	38.50
2.60	39.00
2.50	39.50
2.40	40.00
2.30	40.50
2.20	41.00
2.10	41.50
2.00	42.00
1.90	42.50
1.80	43.00
1.70	43.50
1.60	44.00
1.50	44.50
1.40	45.00
1.30	45.50
1.20	46.00
1.10	46.50
1.00	47.00
0.90	47.50
0.80	48.00
0.70	48.50
0.60	49.00
0.50	49.50
0.40	50.00
0.30	50.50
0.20	51.00
0.10	51.50
0.00	52.00
-0.10	52.50
-0.20	53.00
-0.30	53.50
-0.40	54.00
-0.50	54.50
-0.60	55.00
-0.70	55.50
-0.80	56.00
-0.90	56.50
-1.00	57.00
-1.10	57.50
-1.20	58.00
-1.30	58.50
-1.40	59.00
-1.50	59.50
-1.60	60.00
-1.70	60.50
-1.80	61.00
-1.90	61.50
-2.00	62.00
-2.10	62.50
-2.20	63.00
-2.30	63.50
-2.40	64.00
-2.50	64.50
-2.60	65.00
-2.70	65.50
-2.80	66.00
-2.90	66.50
-3.00	67.00
-3.10	67.50
-3.20	68.00
-3.30	68.50
-3.40	69.00
-3.50	69.50
-3.60	70.00
-3.70	70.50
-3.80	71.00
-3.90	71.50
-4.00	72.00
-4.10	72.50
-4.20	73.00
-4.30	73.50
-4.40	74.00
-4.50	74.50
-4.60	75.00
-4.70	75.50
-4.80	76.00
-4.90	76.50
-5.00	77.00
-5.10	77.50
-5.20	78.00
-5.30	78.50
-5.40	79.00
-5.50	79.50
-5.60	80.00
-5.70	80.50
-5.80	81.00
-5.90	81.50
-6.00	82.00
-6.10	82.50
-6.20	83.00
-6.30	83.50
-6.40	84.00
-6.50	84.50
-6.60	85.00
-6.70	85.50
-6.80	86.00
-6.90	86.50
-7.00	87.00
-7.10	87.50
-7.20	88.00
-7.30	88.50
-7.40	89.00
-7.50	89.50
-7.60	90.00
-7.70	90.50
-7.80	91.00
-7.90	91.50
-8.00	92.00
-8.10	92.50
-8.20	93.00
-8.30	93.50
-8.40	94.00
-8.50	94.50
-8.60	95.00
-8.70	95.50
-8.80	96.00
-8.90	96.50
-9.00	97.00
-9.10	97.50
-9.20	98.00
-9.30	98.50
-9.40	99.00
-9.50	99.50
-9.60	100.00
-9.70	100.50
-9.80	101.00
-9.90	101.50
-10.00	102.00
-10.10	102.50
-10.20	103.00
-10.30	103.50
-10.40	104.00
-10.50	104.50
-10.60	105.00
-10.70	105.50
-10.80	106.00
-10.90	106.50
-11.00	107.00
-11.10	107.50
-11.20	108.00
-11.30	108.50
-11.40	109.00
-11.50	109.50
-11.60	110.00
-11.70	110.50
-11.80	111.00
-11.90	111.50
-12.00	112.00
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-12.20	113.00
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-12.40	114.00
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-12.60	115.00
-12.70	115.50
-12.80	116.00
-12.90	116.50
-13.00	117.00
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-13.40	119.00
-13.50	119.50
-13.60	120.00
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-13.90	121.50
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-14.80	126.00
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-15.80	131.00
-15.90	131.50
-16.00	132.00
-16.10	132.50
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-16.30	133.50
-16.40	134.00
-16.50	134.50
-16.60	135.00
-16.70	135.50
-16.80	136.00
-16.90	136.50
-17.00	137.00
-17.10	137.50
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-17.40	139.00
-17.50	139.50
-17.60	140.00
-17.70	140.50
-17.80	141.00
-17.90	141.50
-18.00	142.00
-18.10	142.50
-18.20	143.00
-18.30	143.50
-18.40	144.00
-18.50	144.50
-18.60	145.00
-18.70	145.50
-18.80	146.00
-18.90	146.50
-19.00	147.00
-19.10	147.50
-19.20	148.00
-19.30	148.50
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-19.50	149.50
-19.60	150.00
-19.70	150.50
-19.80	151.00
-19.90	151.50
-20.00	152.00
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-20.50	154.50
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-20.70	155.50
-20.80	156.00
-20.90	156.50
-21.00	157.00
-21.10	157.50
-21.20	158.00
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-21.50	159.50
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-22.00	162.00
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-24.60	175.00
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-24.80	176.00
-24.90	176.50
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-25.60	180.00
-25.70	180.50
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-25.90	181.50
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-26.10	182.50
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-26.40	184.00
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-26.60	185.00
-26.70	185.50
-26.80	186.00
-26.90	186.50
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-28.40	194.00
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-28.80	196.00
-28.90	196.50
-29.00	197.00
-29.10	197.50
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-29.30	198.50
-29.40	199.00
-29.50	199.50
-29.60	200.00
-29.70	200.50
-29.80	201.00
-29.90	201.50
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-32.70	215.50
-32.80	216.00
-32.90	216.50
-33.00	217.00
-33.10	217.50
-33.20	218.00
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-33.40	219.00
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-33.70	220.50
-33.80	221.00
-33.90	221.50
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-34.90	226.50
-35.00	227.00
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-35.60	230.00
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-35.80	231.00
-35.90	231.50
-36.00	232.00
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-36.20	233.00
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-36.40	234.00
-36.50	234.50
-36.60	235.00
-36.70	235.50
-36.80	236.00
-36.90	236.50
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-37.20	238.00
-37.30	238.50
-37.40	23

CS No. 14

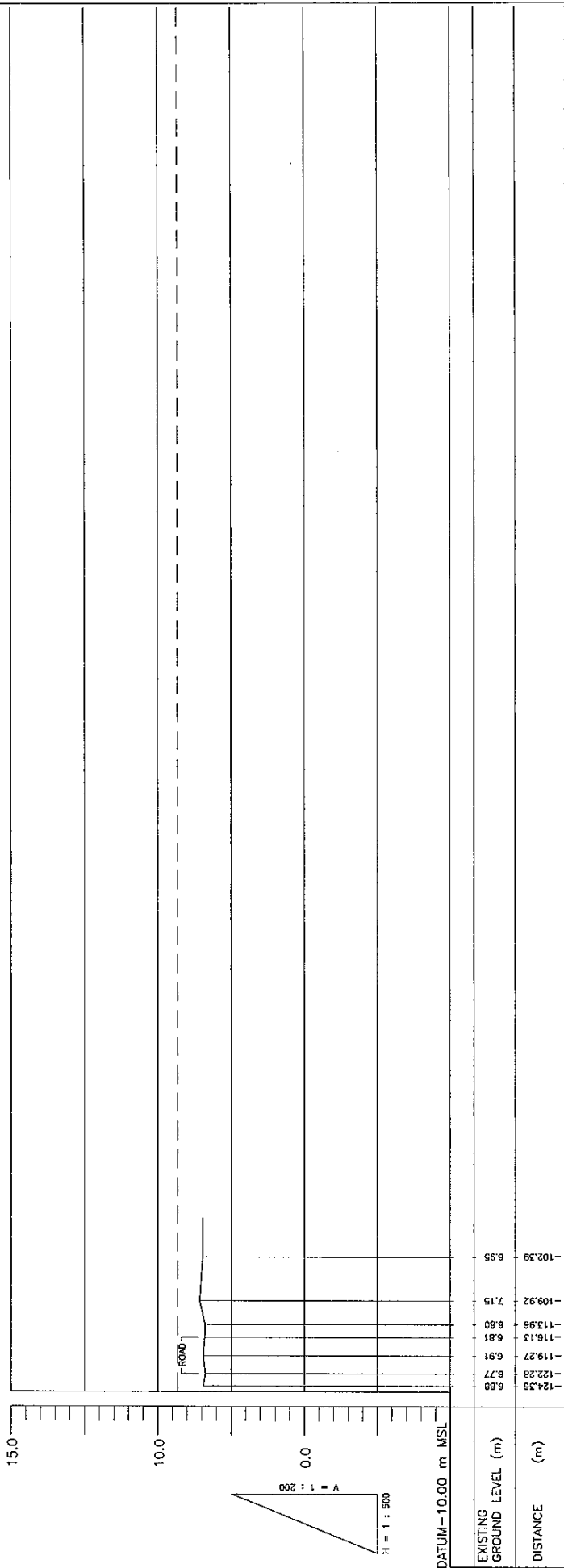


SURVEY MARK LOCATION PLAN

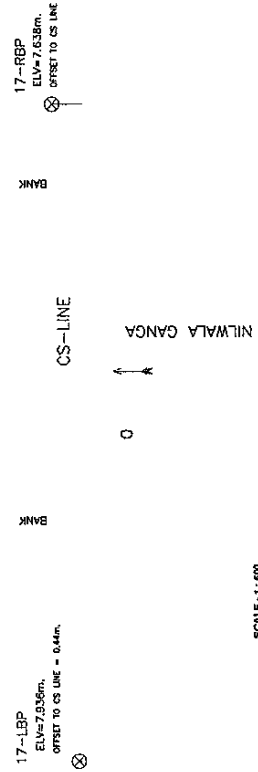


<p>PROJECT :</p> <p>THE COMPREHENSIVE STUDY ON DISASTER MANAGEMENT IN SRI LANKA</p> <p>CLIENT :</p> <p>PACIFIC CONSULTANTS INTERNATIONAL OF JAPAN</p>	<p>PREPARED BY :</p> <p>GAMINI B DODANWELA ASSOCIATES (PVT) LTD. <small>140, WILKINSON ROAD, SINGAPORE 115615 TEL : +65 11 276666, +65 11 455457 E-mail: gba@gbad.com</small></p>	<p>NOTE :</p> <p>THE SURVEY IS ON NATIONAL GRID COORDINATES AND MSL DATUM.</p>	<p>DESIGNED BY :</p> <p>YASASHI</p> <p>CHECKED BY :</p> <p>YASASHI</p> <p>APPROVED BY :</p> <p>YASASHI</p> <p>DATE :</p> <p>JULY 02, 2002</p> <p>DWG. NO. :</p> <p>CS-14</p>
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CS No. 17



SURVEY MARK LOCATION PLAN



SCALE - 1:500

PROJECT : THE COMPREHENSIVE STUDY ON DISASTER MANAGEMENT IN SRI LANKA
CLIENT : PACIFIC CONSULTANTS INTERNATIONAL OF JAPAN

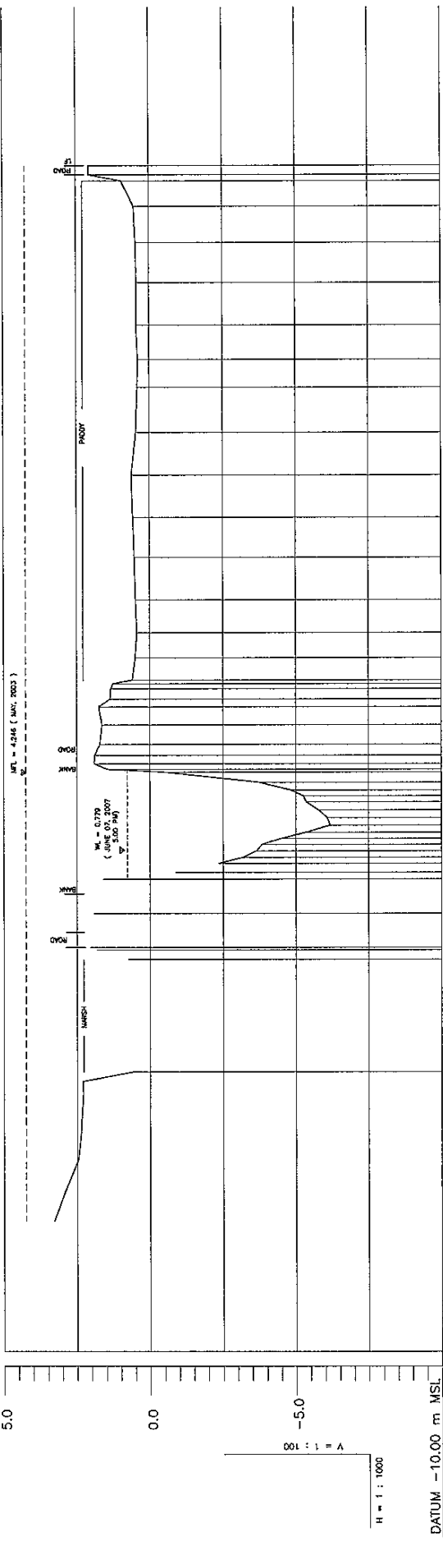
PREPARED BY : GAMINI B DODANWELA ASSOCIATES (PVT) LTD.
213/C-2/2, ANURADHA, JAYAWARDENA MAWATHA, KARUNAVANTHA, COXWALA
TEL : +94 11 2718981, +94 11 2302427, FAX : +94 11 2204148
E-mail: Board@godanwela.lk Web: www.godanwela.com

RIVER CROSS SECTION SURVEY OF CS No. 17 AT AKURESSA ALONG NILWALA GANGA

NOTE : THE SURVEY IS ON NATIONAL GRID COORDINATES AND MSL DATUM.

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	T. Meesal
DATE:	July 09, 2007
DWG. NO.	CS-17

CS No. 18



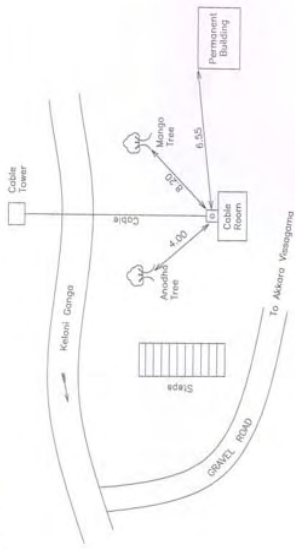
EXISTING GROUND LEVEL (m)	DISTANCE (m)
2.09	139
2.08	142.9
2.07	146.7
2.06	150.5
2.05	154.3
2.04	158.1
2.03	161.9
2.02	165.7
2.01	169.5
2.00	173.3
1.99	177.1
1.98	180.9
1.97	184.7
1.96	188.5
1.95	192.3
1.94	196.1
1.93	199.9
1.92	203.7
1.91	207.5
1.90	211.3
1.89	215.1
1.88	218.9
1.87	222.7
1.86	226.5
1.85	230.3
1.84	234.1
1.83	237.9
1.82	241.7
1.81	245.5
1.80	249.3
1.79	253.1
1.78	256.9
1.77	260.7
1.76	264.5
1.75	268.3
1.74	272.1
1.73	275.9
1.72	279.7
1.71	283.5
1.70	287.3
1.69	291.1
1.68	294.9
1.67	298.7
1.66	302.5
1.65	306.3
1.64	310.1
1.63	313.9
1.62	317.7
1.61	321.5
1.60	325.3
1.59	329.1
1.58	332.9
1.57	336.7
1.56	340.5
1.55	344.3
1.54	348.1
1.53	351.9
1.52	355.7
1.51	359.5
1.50	363.3
1.49	367.1
1.48	370.9
1.47	374.7
1.46	378.5
1.45	382.3
1.44	386.1
1.43	389.9
1.42	393.7
1.41	397.5
1.40	401.3
1.39	405.1
1.38	408.9
1.37	412.7
1.36	416.5
1.35	420.3
1.34	424.1
1.33	427.9
1.32	431.7
1.31	435.5
1.30	439.3
1.29	443.1
1.28	446.9
1.27	450.7
1.26	454.5
1.25	458.3
1.24	462.1
1.23	465.9
1.22	469.7
1.21	473.5
1.20	477.3
1.19	481.1
1.18	484.9
1.17	488.7
1.16	492.5
1.15	496.3
1.14	500.1
1.13	503.9
1.12	507.7
1.11	511.5
1.10	515.3
1.09	519.1
1.08	522.9
1.07	526.7
1.06	530.5
1.05	534.3
1.04	538.1
1.03	541.9
1.02	545.7
1.01	549.5
1.00	553.3
0.99	557.1
0.98	560.9
0.97	564.7
0.96	568.5
0.95	572.3
0.94	576.1
0.93	579.9
0.92	583.7
0.91	587.5
0.90	591.3
0.89	595.1
0.88	598.9
0.87	602.7
0.86	606.5
0.85	610.3
0.84	614.1
0.83	617.9
0.82	621.7
0.81	625.5
0.80	629.3
0.79	633.1
0.78	636.9
0.77	640.7
0.76	644.5
0.75	648.3
0.74	652.1
0.73	655.9
0.72	659.7
0.71	663.5
0.70	667.3
0.69	671.1
0.68	674.9
0.67	678.7
0.66	682.5
0.65	686.3
0.64	690.1
0.63	693.9
0.62	697.7
0.61	701.5
0.60	705.3
0.59	709.1
0.58	712.9
0.57	716.7
0.56	720.5
0.55	724.3
0.54	728.1
0.53	731.9
0.52	735.7
0.51	739.5
0.50	743.3
0.49	747.1
0.48	750.9
0.47	754.7
0.46	758.5
0.45	762.3
0.44	766.1
0.43	769.9
0.42	773.7
0.41	777.5
0.40	781.3
0.39	785.1
0.38	788.9
0.37	792.7
0.36	796.5
0.35	800.3
0.34	804.1
0.33</	

RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 1	RIVER : Kelani	SITE : Glencourse
Mark No. 1 - LBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 197363.303 m	E 135949.806 m	Elevation : 21.602 m
Description : Steel Bolt set in Concrete		

Location Sketch



Photograph of Mark :



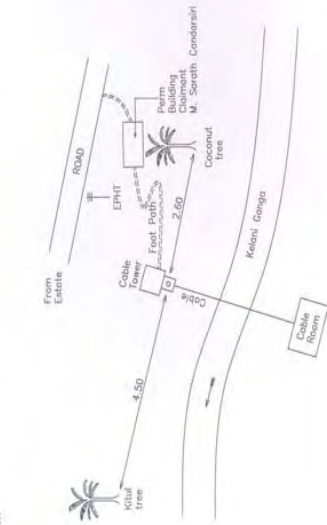
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Colombo 10, Sri Lanka.
Tel : 2716969 / 4255427 Fax : 4261148

RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 1	RIVER : Kelani	SITE : Glencourse
Mark No. 1 - RBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 197505.272 m	E 136034.462 m	Elevation : 20.184 m
Description : Steel Bolt set in Concrete		

Location Sketch



Photograph of Mark :



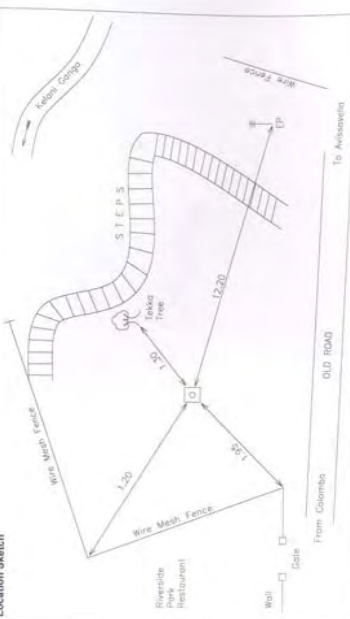
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Tel : 2716969 / 4255427 Fax : 4261148

RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 2	RIVER: Kolan	SITE: Hirivella
Mark No. 2-LP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 150004.000 m	E 123537.000 m	Elevation: 10.098 m
Description: Steel Bolt set in Concrete		

Location Sketch



Photograph of Mark :



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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 2	RIVER: Kolan	SITE: Hirivella
Mark No. 2-RBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 180153.000 m	E 123605.210 m	Elevation: 8.893 m
Description: Steel Bolt set in Concrete		

Location Sketch



Photograph of Mark :



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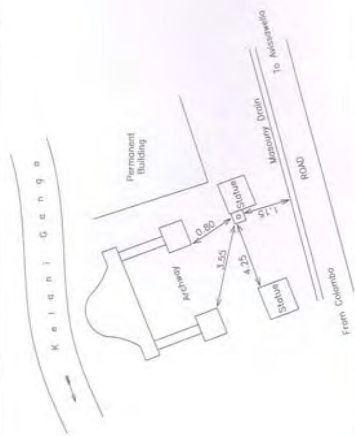
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ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 3	RIVER: Kelani	SITE: Kaduwela
Mark No. 3-LPB	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 192811.172 m	E 112832.191 m	Elevation: 8.174 m

Description: Steel Bolt set in Concrete

Location Sketch



Photograph of Mark :



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LAND SURVEYORS
213C/25, Anuradhapura, Sri Lanka.
Tel: 7718598 / 426427 Fax: 426148

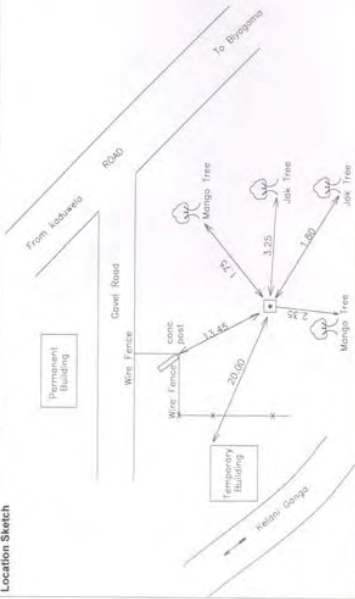
RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 3	RIVER: Kelani	SITE: Kaduwela
Mark No. 3-RBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 192996.029 m	E 112971.043 m	Elevation: 6.687 m

Description: Steel Bolt set in Concrete

Location Sketch



Photograph of Mark :



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213C/25, Anuradhapura, Sri Lanka.
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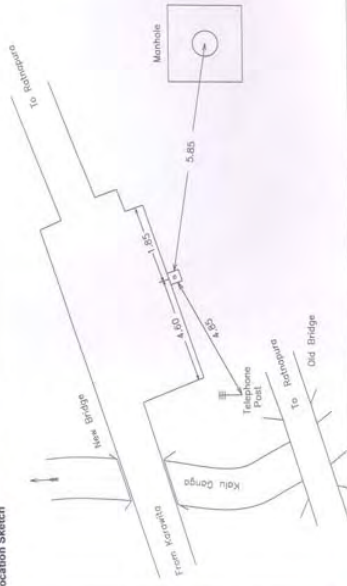
RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 5	RIVER: Kalu	SITE: Rathapura
Mark No. 5 RBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 156470.327 m	E 156448.086 m	Elevation: 26.938 m

Description: Steel Bolt set in Concrete

Location Sketch



Photograph of Mark :



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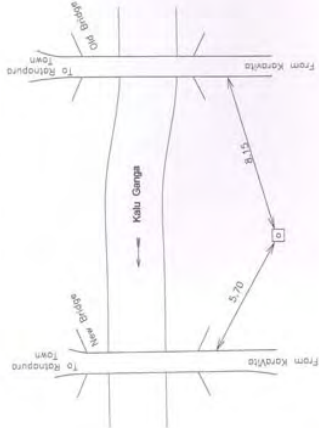
RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 5	RIVER: Kalu	SITE: Rathapura
Mark No. 5 - L.B.P (OLD BM)	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 156411.000 m	E 156397.000 m	Elevation: 26.873 m

Description: Old Benchmark

Location Sketch



Photograph of Mark :



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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 6	RIVER: Kaku	SITE: Elagawa Bridge
Mark No. 6-RBP	Datum: National Grid /MSL	Period of Survey: May / June 2007
N 170296.088 m	E 138890.447 m	Elevation: 18.951 m

Description: Steel Bolt set in Concrete

Location Sketch



Photograph of Mark:



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LAND SURVEYORS
215C-22, Anuradhapura Road, Marutha, Dabwala
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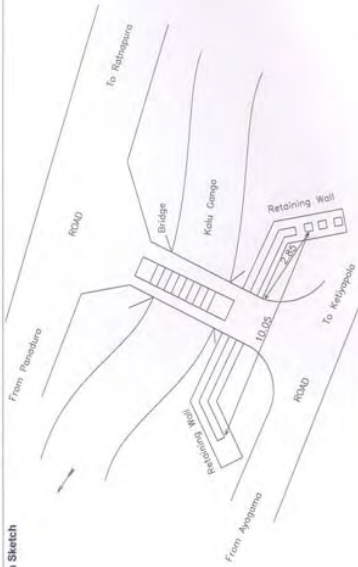
RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 6	RIVER: Kaku	SITE: Elagawa Bridge
Mark No. 6-LBP	Datum: National Grid /MSL	Period of Survey: May / June 2007
N 170248.271 m	E 138887.990 m	Elevation: 19.053 m

Description: Steel Bolt set in Concrete

Location Sketch



Photograph of Mark:



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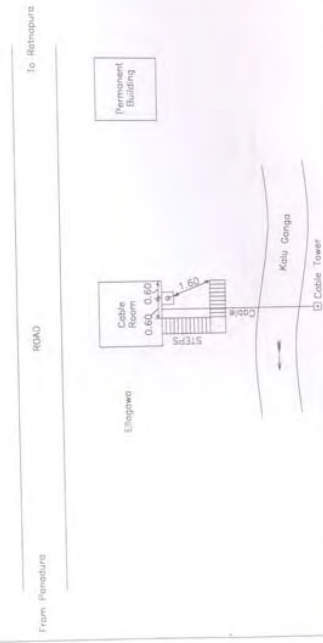
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ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 7	RIVER : Kulu	SITE : Elagawa
Mark No. 7-RBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 170273.842 m	E 138546.262 m	Elevation : 11.183 m

Description : Steel Bolt set in Concrete

Location Sketch



Photograph of Mark :



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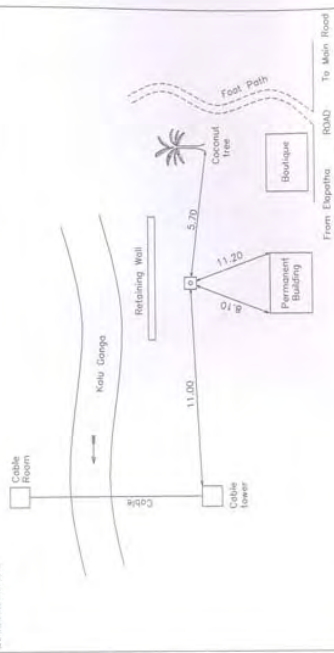
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ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 7	RIVER : Kulu	SITE : Elagawa
Mark No. 7 LBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 170177.753 m	E 138564.598 m	Elevation : 14.188 m

Description : Steel Bolt set in Concrete

Location Sketch



Photograph of Mark :



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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 8	RIVER : Kulu	SITE : Halvatura Bridge
Mark No. 8 - LBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 169477.125 m	E 130250.621 m	Elevation : 14.077 m

Description : Steel Bolt set in Concrete

Location Sketch



Photograph of Mark :



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213/C-22, Anagarika Dharmapala Mawatha, Dehewela
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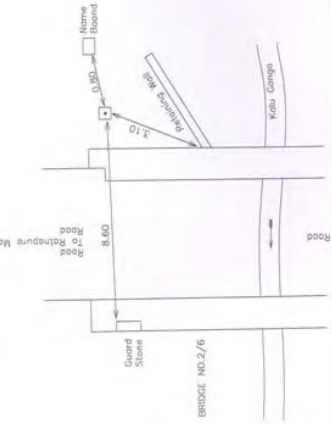
RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 8	RIVER : Kulu	SITE : Halvatura Bridge
Mark No. 8 - RBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 169634.003m	E 130243.366m	Elevation : 14.750m

Description : Steel Bolt set in Concrete

Location Sketch



Photograph of Mark :



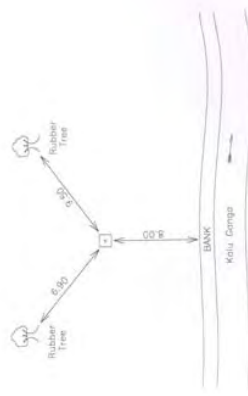
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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 9	RIVER: Kulu	SITE: Kuda Ganga confluence
Mark No. 9 - LBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 181942.273 m	E 124945.730 m	Elevation: 4.917 m
Description: Steel Bolt set in Concrete		

Location Sketch



Photograph of Mark:



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GAMINI B DODANWELA ASSOCIATES (PVT) LTD.
LAND SURVEYORS
213/C-22, Anapala Channarayana Mawatha, Colombo
Tel: 2710229 / 0332471 Fax: 0208148

RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 9	RIVER: Kulu	SITE: Kuda Ganga confluence
Mark No. 9 - RBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 181661.726m	E 124822.026m	Elevation: 0.459m
Description: Steel Bolt set in Concrete		

Location Sketch



Photograph of Mark:



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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 10	RIVER: Kolu	SITE: Putupura
Mark No. 10 - LBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 167314.699 m	E 121250.334 m	Elevation: 4.034 m

Description: Steel Bolt set in Concrete

Location Sketch



Photograph of Mark:



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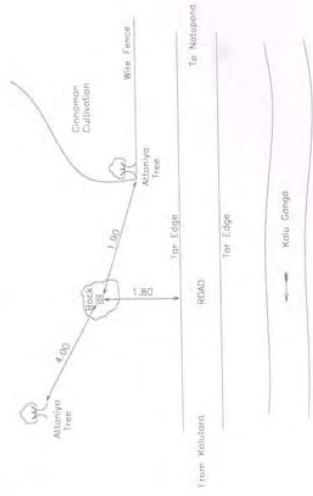
RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 10	RIVER: Kolu	SITE: Putupura
Mark No. 10 - RBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 167324.133 m	E 121130.314 m	Elevation: 4.956 m

Description: Steel Bolt set in Concrete

Location Sketch



Photograph of Mark:



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LAND SURVEYORS
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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 11	RIVER : Gin	SITE : Tawalama
Mark No. 11 - RBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 126694.9820m	E 150000.031m	Elevation : 26.634m
Description : Steel Bolt set in Concrete		

Location Sketch



Photograph of Mark :



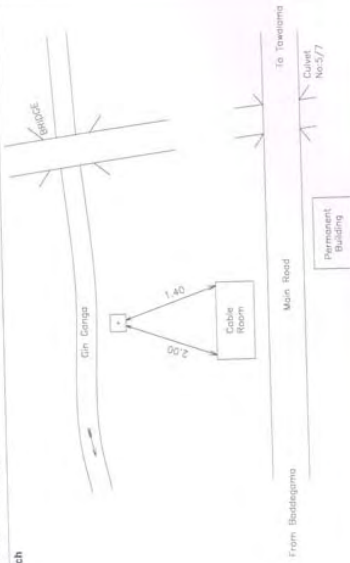
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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 11	RIVER : Gin	SITE : Tawalama
Mark No. 11 - LBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 126622.014m	E 150050.120m	Elevation : 26.724m
Description : Steel Bolt set in Concrete		

Location Sketch



Photograph of Mark :



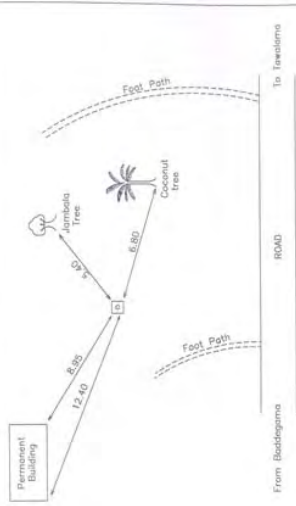
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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 12	RIVER: Gih	SITE: Agaliya
Mark No. 12 - LEP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 110073.240 m	E 130247.714 m	Elevation: 5.308 m
Description: Old TBM		

Location Sketch



Photograph of Mark:



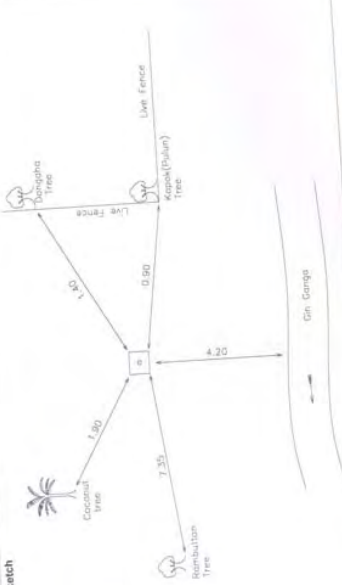
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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 12	RIVER: Gih	SITE: Agaliya
Mark No. 12 - RBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 110156.638 m	E 136191.077 m	Elevation: 5.030 m
Description: Steel Bolt set in Concrete		

Location Sketch



Photograph of Mark:



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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 13	RIVER : Gin	SITE : Gampaha
Mark No. 13 - LBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 106019.930m	E 133740.403m	Elevation : 10.046m

Description : Sheet Bolt set in Concrete

Location Sketch



Photograph of Mark :



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LAND SURVEYORS
213C-22, Angedara Drive,
Mawatha, Colombo.
Tel. 2716981 / 4265427 Fax. 4208143

RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 13	RIVER : Gin	SITE : Gampaha
Mark No. 13 - RBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 105961.075 m	E 133626.258 m	Elevation : 3.753 m

Description : Sheet Bolt set in Concrete

Location Sketch



Photograph of Mark :



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213C-22, Angedara Drive,
Mawatha, Colombo.
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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 14	RIVER: Gin	SITE: Hoggala
Mark No. 14 - LBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 98517.960 m	E 133940.291 m	Elevation: 2.289 m

Description: Steel Bolt set in Concrete

Location Sketch

Photograph of Mark :



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Tel : 2716996 / 4205427 Fax : 4205146

RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 14	RIVER: Gin	SITE: Hoggala
Mark No. 14 - RBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 99029.000 m	E 133473.000 m	Elevation: 4.740 m

Description: Steel Bolt set in Concrete

Location Sketch

Photograph of Mark :

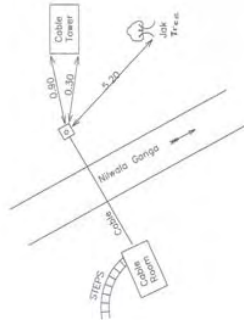


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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 15	RIVER: Niwala	SITE: Pitabeddara
Mark No. 15-LBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 113027.510 m	E 187104.634 m	Elevation: 19.098 m
Description: Steel Bolt set in Concrete		
Location Sketch		



Photograph of Mark:

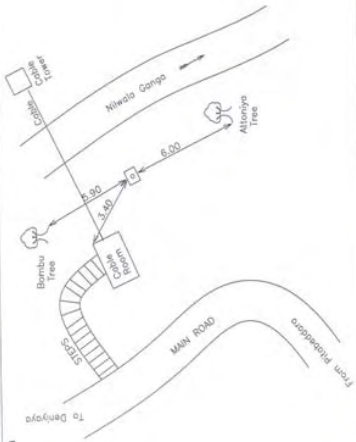


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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 15	RIVER: Niwala	SITE: Pitabeddara
Mark No. 15-RBP	Datum: National Grid / MSL	Period of Survey: May / June 2007
N 112950.782 m	E 187104.299 m	Elevation: 20.930 m
Description: Steel Bolt set in Concrete		
Location Sketch		



Photograph of Mark:



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Tel: 2716996 / 4205627 Fax: 4208148

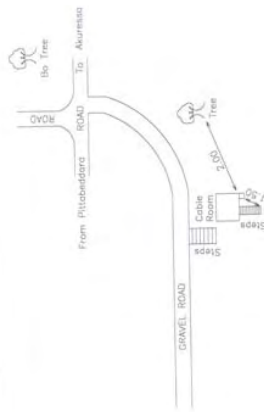
RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 16	RIVER : Nilwala	SITE : Bopagoda
Mark No. 16 - LBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 106665.213 m	E 164180.982 m	Elevation : 13.166 m

Description : Steel Bolt set in Concrete

Location Sketch



Photograph of Mark :



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GAMINI B DODANWELA ASSOCIATES (PVT) LTD.
LAND SURVEYORS
213C-22, Anaganga Dharmapala Mawatha, Deltawala,
Tel : 2716986 / 4265427 Fax : 4263416

RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 17	RIVER : Nilwala	SITE : Akurissa
Mark No. 17 - LBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N 1016669.000 m	E 167776.000 m	Elevation : 7.936 m

Description : Steel Bolt set in Concrete

Location Sketch



Photograph of Mark :



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GAMINI B DODANWELA ASSOCIATES (PVT) LTD.
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RIVER CROSS SECTION SURVEY FOR COMPREHENSIVE STUDY
ON DISASTER MANAGEMENT IN SRI LANKA

SURVEY MARK DESCRIPTION

C.S. No. 17	RIVER : Nilwala	SITE : Auressa
Mark No. 17 - RBP	Datum : National Grid / MSL	Period of Survey : May / June 2007
N : 101726.766 m	E : 167663.582 m	Elevation : 7.638 m
Description : Steel Bolt set in Concrete		
Location Sketch		

Photograph of Mark:



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GAMINI B DODANWELA ASSOCIATES (PVT) LTD.
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213/C-22, Anagarika Dharmapala Mawatha, Dambulla.
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