

Line No.	Bank/Line	Northing(m)	Eastings(m)	Distance(m)
E-00	Right Bank	1,811,013.26	210,104.47	0
	Transit Line	1,809,989.45	213,449.92	3,499
	Left Bank	1,808,916.43	216,956.11	7,165
E-01	Right Bank	1,811,747.41	211,122.77	0
	Transit Line	1,810,916.78	213,630.43	2,832
	Left Bank	1,809,972.99	217,245.75	6,498
E-02	Right Bank	1,812,373.16	211,841.67	0
	Transit Line	1,811,809.23	214,337.99	2,611
	Left Bank	1,810,826.88	217,541.39	5,961
E-03	Right Bank	1,813,424.49	212,477.14	0
	Transit Line	1,812,680.87	214,907.01	2,541
	Left Bank	1,811,785.11	217,834.02	5,602
E-04	Right Bank	1,814,262.58	213,090.43	0
	Transit Line	1,813,592.51	215,470.03	2,495
	Left Bank	1,812,741.33	218,126.66	5,267
E-05	Right Bank	1,815,159.55	213,642.05	0
	Transit Line	1,814,424.15	216,045.04	2,513
	Left Bank	1,813,697.55	218,419.29	4,996
E-06	Right Bank	1,816,076.50	214,063.01	0
	Transit Line	1,815,295.79	216,614.06	2,669
	Left Bank	1,814,653.78	218,711.93	4,862
E-07	Right Bank	1,816,541.32	214,252.76	0
	Transit Line	1,815,731.62	216,898.57	2,767
	Left Bank	1,815,131.89	218,856.25	4,816
E-08	Right Bank	1,817,006.08	214,436.19	0
	Transit Line	1,816,167.44	217,183.08	2,873
	Left Bank	1,815,610.00	219,004.57	4,778
E-09	Right Bank	1,817,486.19	214,582.51	0
	Transit Line	1,816,603.26	217,467.59	3,017
	Left Bank	1,816,088.11	219,150.88	4,778
E-10	Right Bank	1,817,976.73	214,681.67	0
	Transit Line	1,817,039.08	217,732.10	3,211
	Left Bank	1,816,566.23	219,297.20	4,627
E-11	Right Bank	1,818,474.33	214,770.85	0
	Transit Line	1,817,474.90	218,036.61	3,415
	Left Bank	1,817,044.34	219,443.62	4,887
E-12	Right Bank	1,818,974.40	214,845.41	0
	Transit Line	1,817,910.72	218,321.11	3,639
	Left Bank	1,817,522.45	219,589.94	4,962
E-13	Right Bank	1,819,489.89	214,872.90	0
	Transit Line	1,818,547.67	217,948.41	3,216
	Left Bank	1,818,000.56	219,736.16	5,086
E-14	Right Bank	1,820,001.75	214,905.63	0
	Transit Line	1,819,265.99	217,309.83	2,514
	Left Bank	1,818,478.67	219,882.47	5,205
E-15	Right Bank	1,820,541.54	214,950.41	0
	Transit Line	1,819,884.30	216,671.26	1,904
	Left Bank	1,819,956.79	220,028.79	5,415
E-16	Right Bank	1,821,133.46	214,624.84	0
	Transit Line	1,820,702.61	216,032.69	1,472
	Left Bank	1,819,434.90	220,175.11	5,804
E-17	Right Bank	1,821,405.40	214,761.99	0
	Transit Line	1,820,840.71	216,798.91	2,490
	Left Bank	1,821,972.67	219,832.93	6,198
E-18	Right Bank	1,821,086.29	214,855.62	0
	Transit Line	1,820,216.85	216,464.53	1,966
	Left Bank	1,822,347.08	219,496.10	5,672
E-19	Right Bank	1,821,714.64	214,880.18	0
	Transit Line	1,820,592.98	218,130.15	1,528
	Left Bank	1,824,381.70	221,521.94	8,118
E-20	Right Bank	1,820,336.84	214,695.98	0
	Transit Line	1,820,969.12	215,795.77	1,100
	Left Bank	1,823,095.90	218,822.43	4,799
E-21	Right Bank	1,820,855.24	214,764.05	0
	Transit Line	1,821,345.25	215,461.39	852
	Left Bank	1,826,199.80	220,947.00	7,557



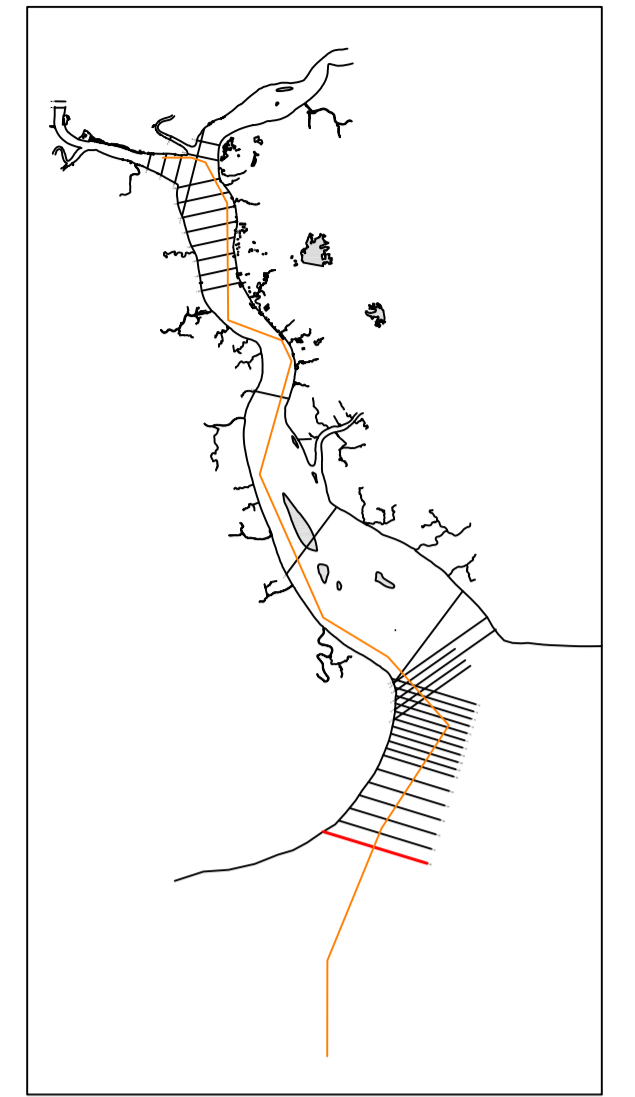
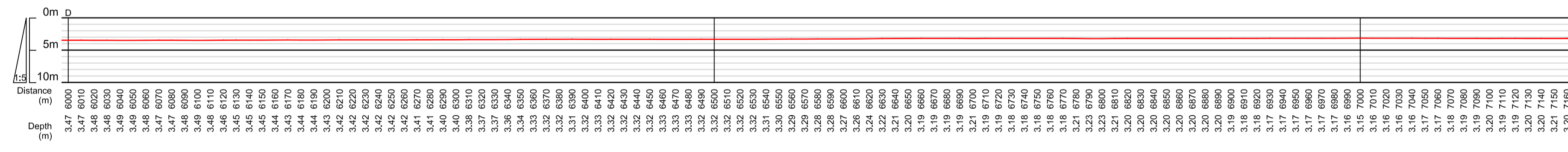
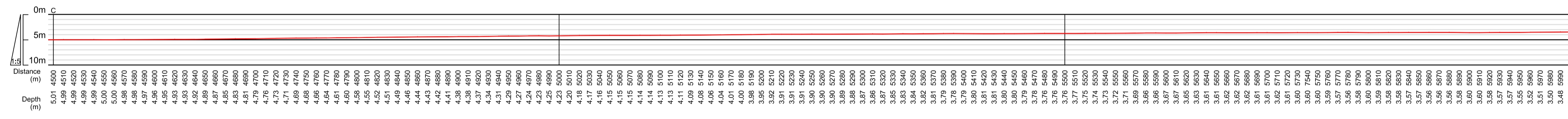
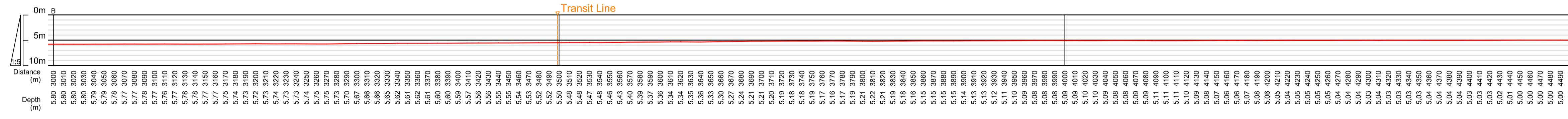
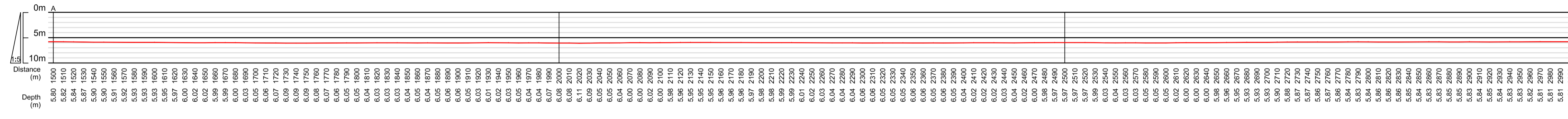
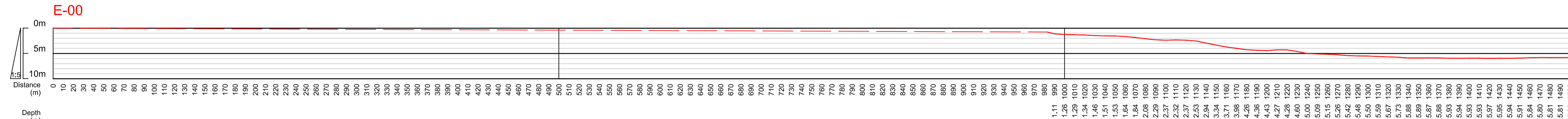
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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA STUDY TEAM
 ORIENTAL CONSULTANTS GLOBAL Co., LTD.
 ASIA AIR SURVEY CO., LTD.
 CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name
 The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title
 Location map of cross section survey lines at the river mouth area of the Yangon River after rainy season

Projection
 UTM Zone 47 N
 Ellipsoid
 WGS - 84
 Datum Level
 Chart Datum of Yangon Port
 Revision
 1.0.0

Date of Survey
 From 09 Nov 2015 to 09 Dec 2015
Date of Drawing
 31 Jan 2016
Sheet No.
 The river mouth area
Scale
 1/75,000 (A1 Printing)
 1/150,000 (A3 Printing)



E-00	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 811.013.26	210.104.47	0
Transit Line	1 809.989.45	213.449.92	3 499
Left Bank	1 808.916.43	216.956.11	7 165

After Rainy Season



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ASIA AIR SURVEY CO., LTD.

CONTRACTOR



ARC GEO SUPPORT CO., LTD.

Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Cross sections at the river mouth area of the Yangon River after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

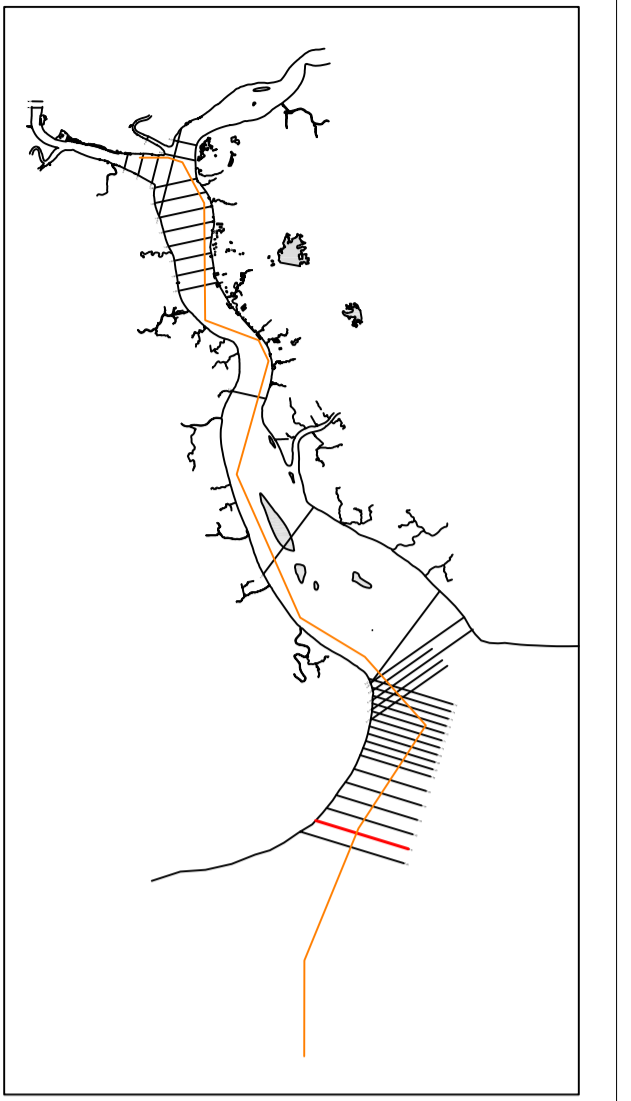
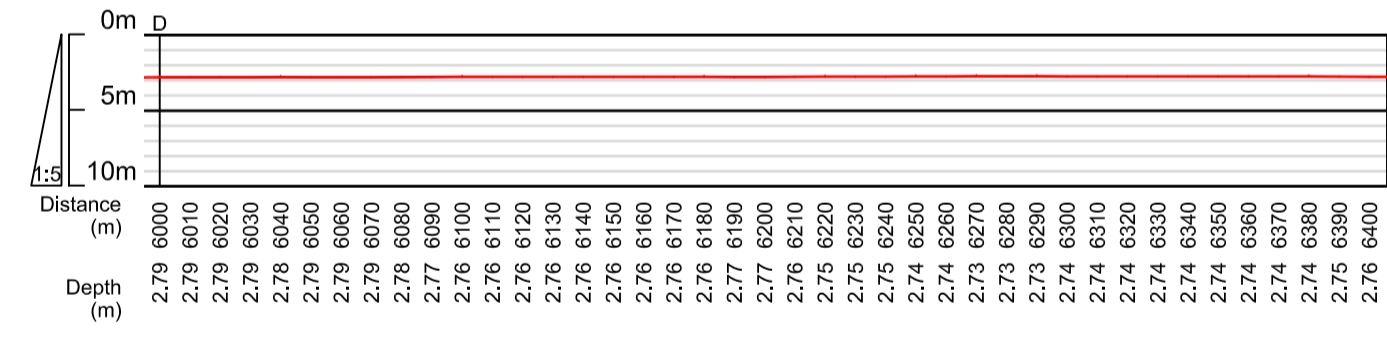
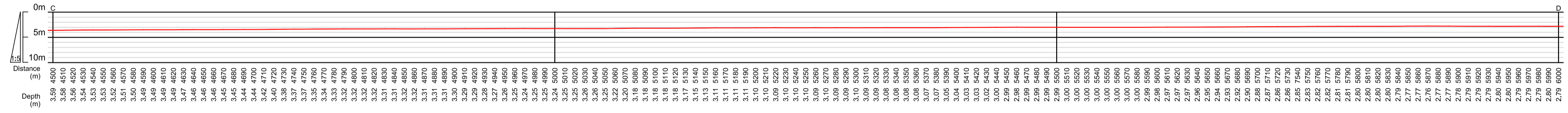
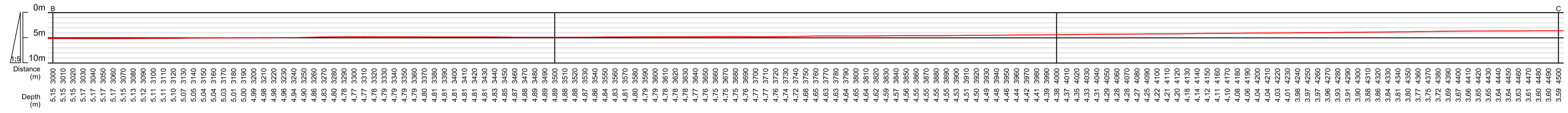
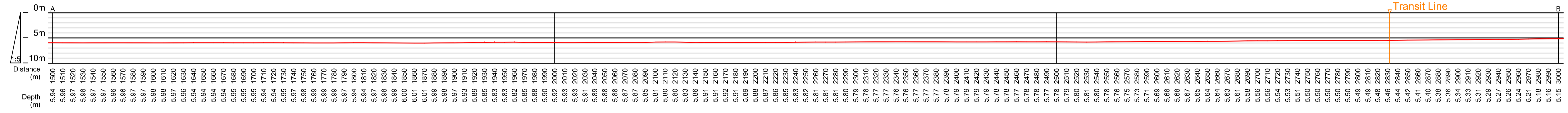
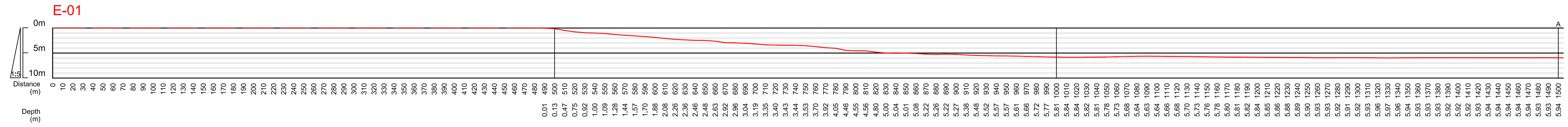
15 Jan 2016

Sheet No.

E-00

Scale

H=2,500 V=1/500 (A1 Printing)
H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 811 747.41	211 122.77	0
Transit Line	1 810 918.78	213 830.43	2 833
Left Bank	1 809 872.68	217 248.75	6 406

After Rainy Season



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UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

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Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

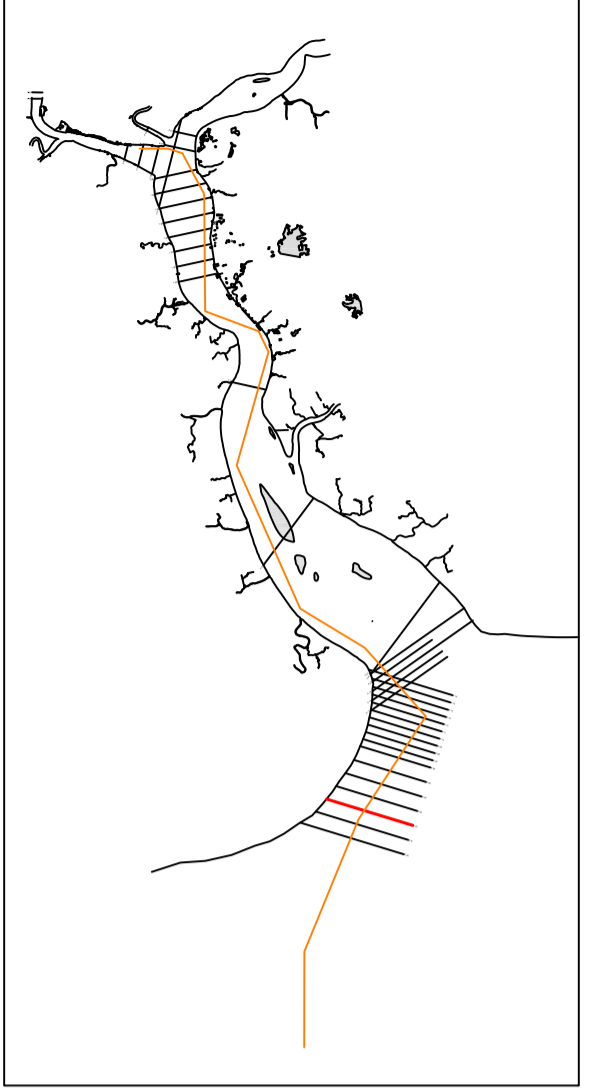
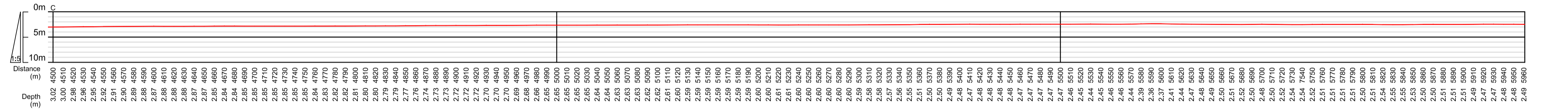
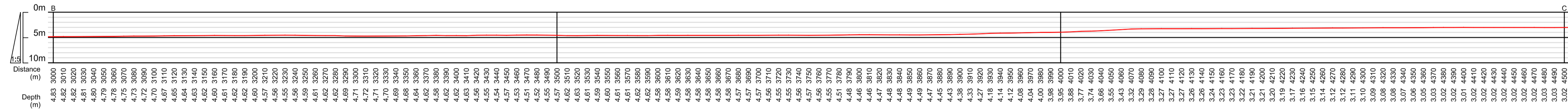
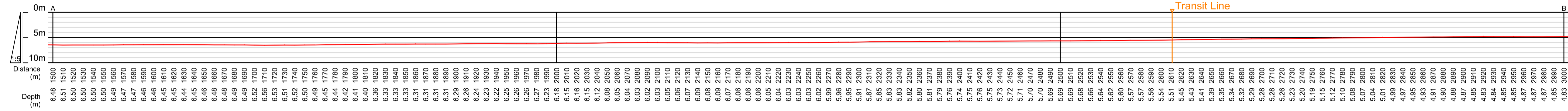
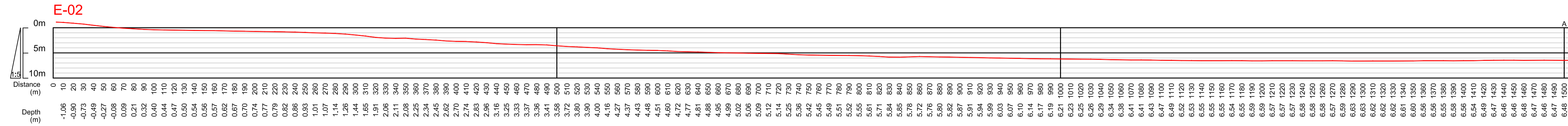
15 Jan 2016

Sheet No.

E-01

Scale

H=2,500 V=1/500 (A1 Printing)
H=5,000 V=1/1,000 (A3 Printing)



E-02	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 812 573.18	211 841.67	0
Transit Line	1 811 828.23	214 337.99	2 811
Left Bank	1 810 828.88	217 541.39	5 961

After Rainy Season



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Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Cross sections at the river mouth area of the Yangon River after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

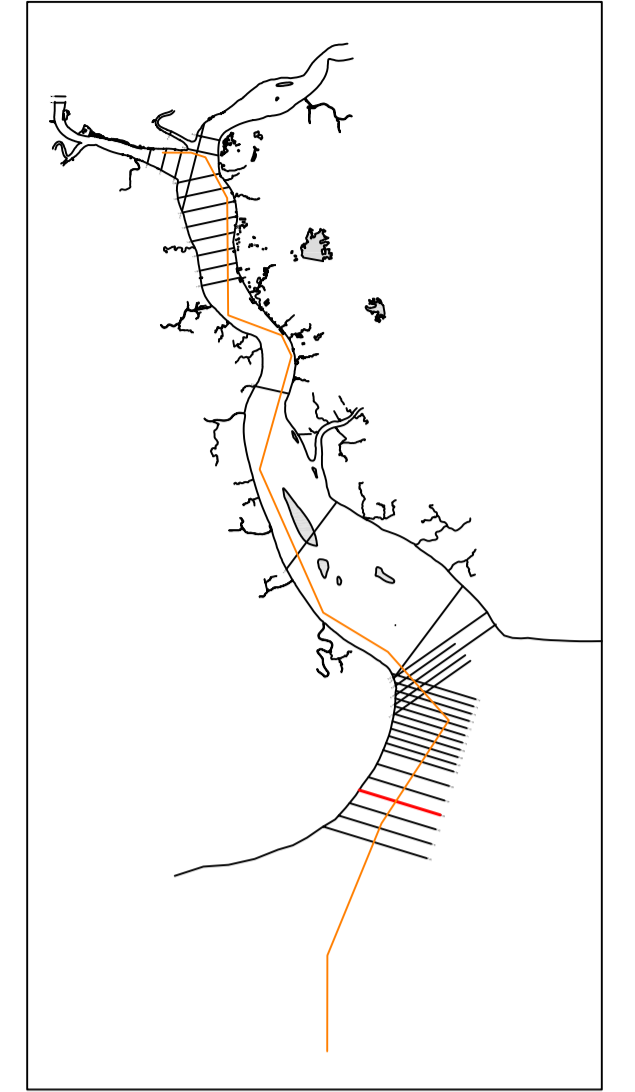
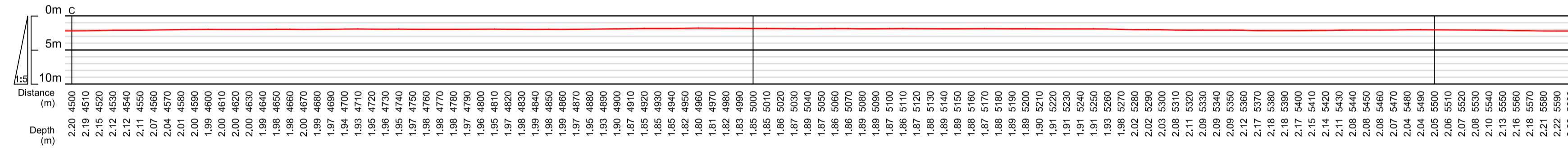
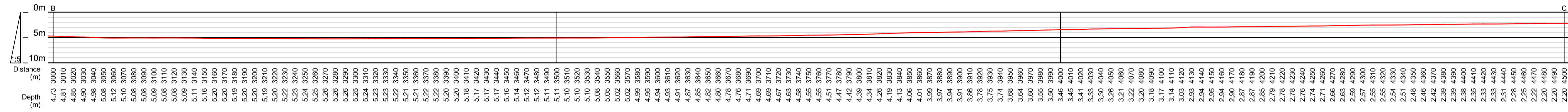
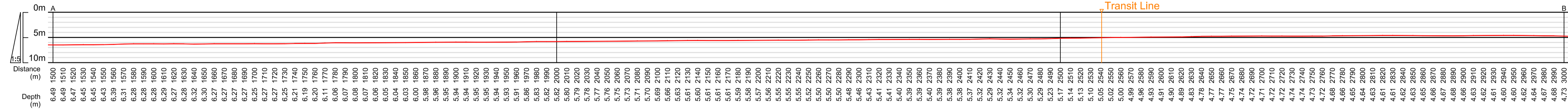
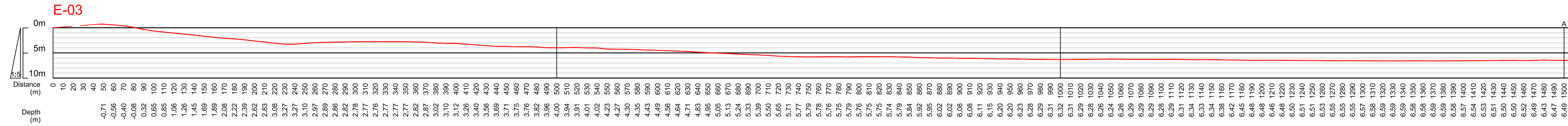
15 Jan 2016

Sheet No.

E-02

Scale

H=2,500 V=1/500 (A1 Printing)
H=5,000 V=1/1,000 (A3 Printing)



E-03	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,813,424.49	212,477.14	0
Transit Line	1,812,680.87	214,907.01	2,541
Left Bank	1,811,785.11	217,834.02	5,602

After Rainy Season



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Project Name

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Drawing Title

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Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

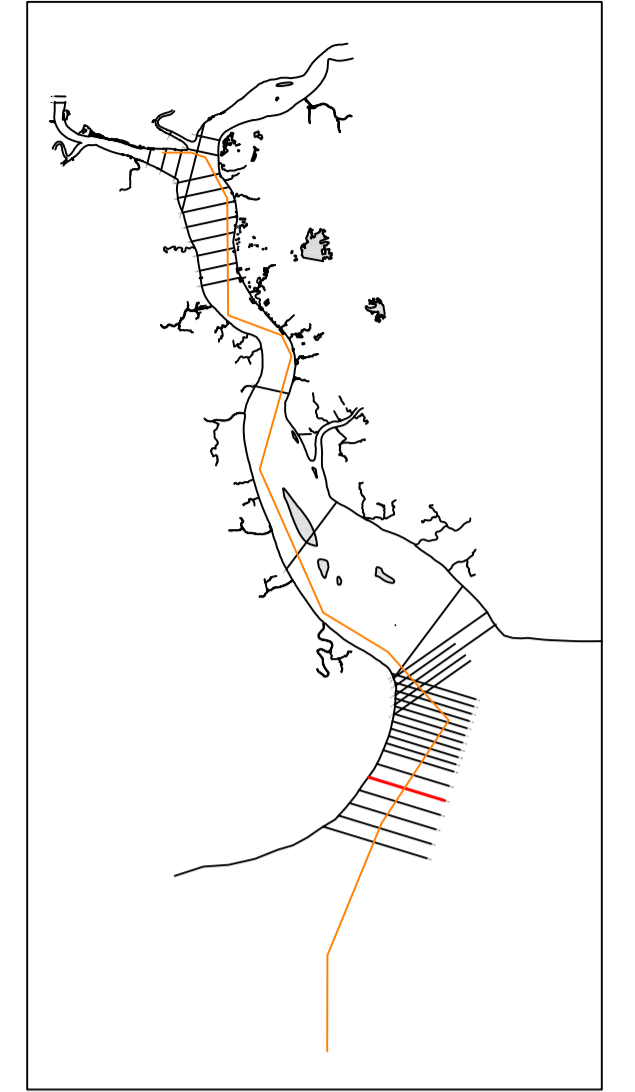
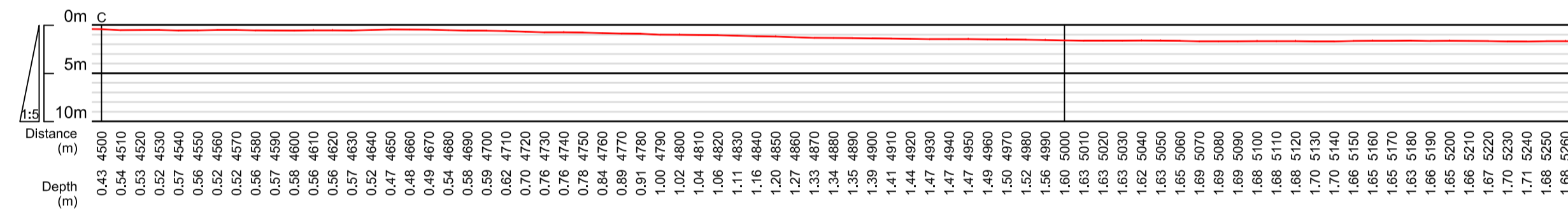
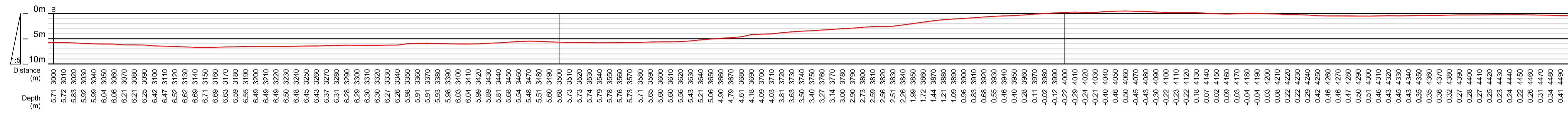
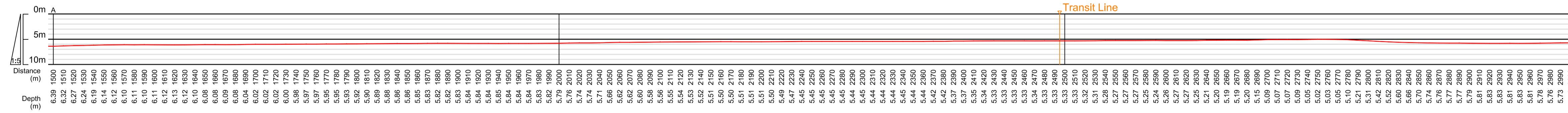
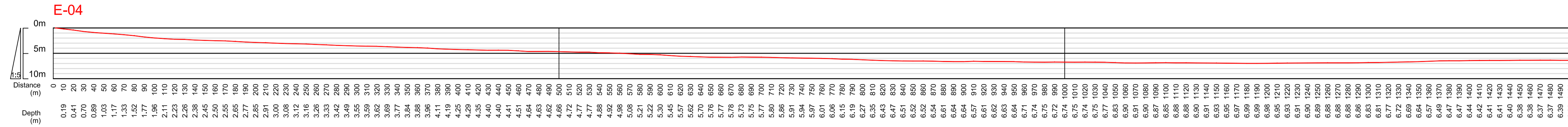
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Sheet No.

E-03

Scale

H=2,500 V=1/500 (A1 Printing)
H=5,000 V=1/1,000 (A3 Printing)



E-04	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 814 282.58	213 090.43	0
Transit Line	1 813 552.51	215 476.03	2 495
Left Bank	1 812 741.33	218 126.66	5 267

After Rainy Season

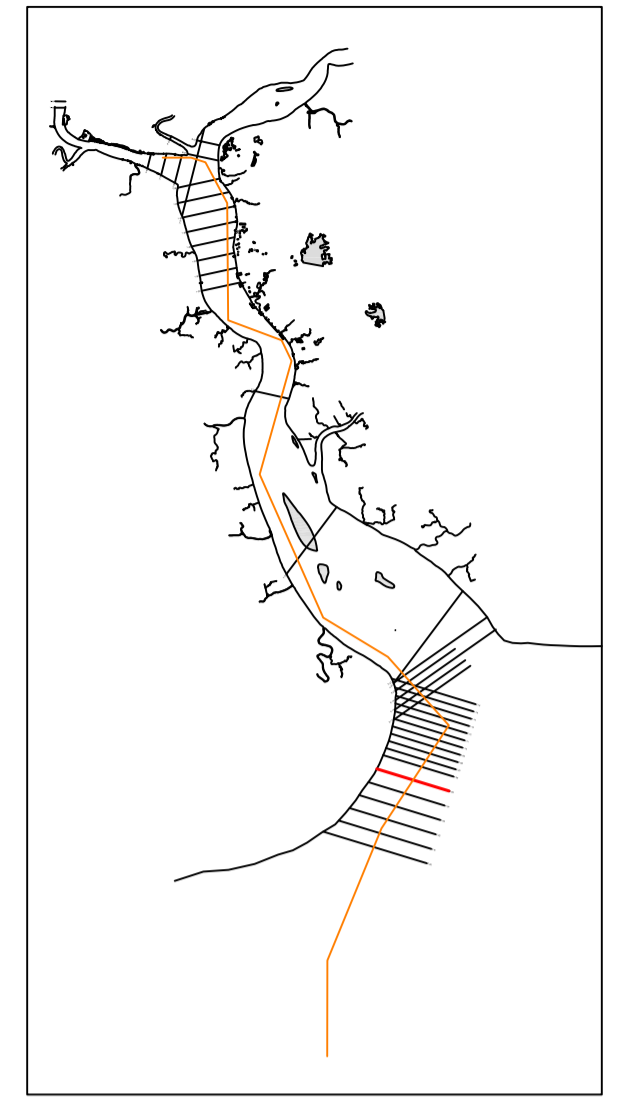
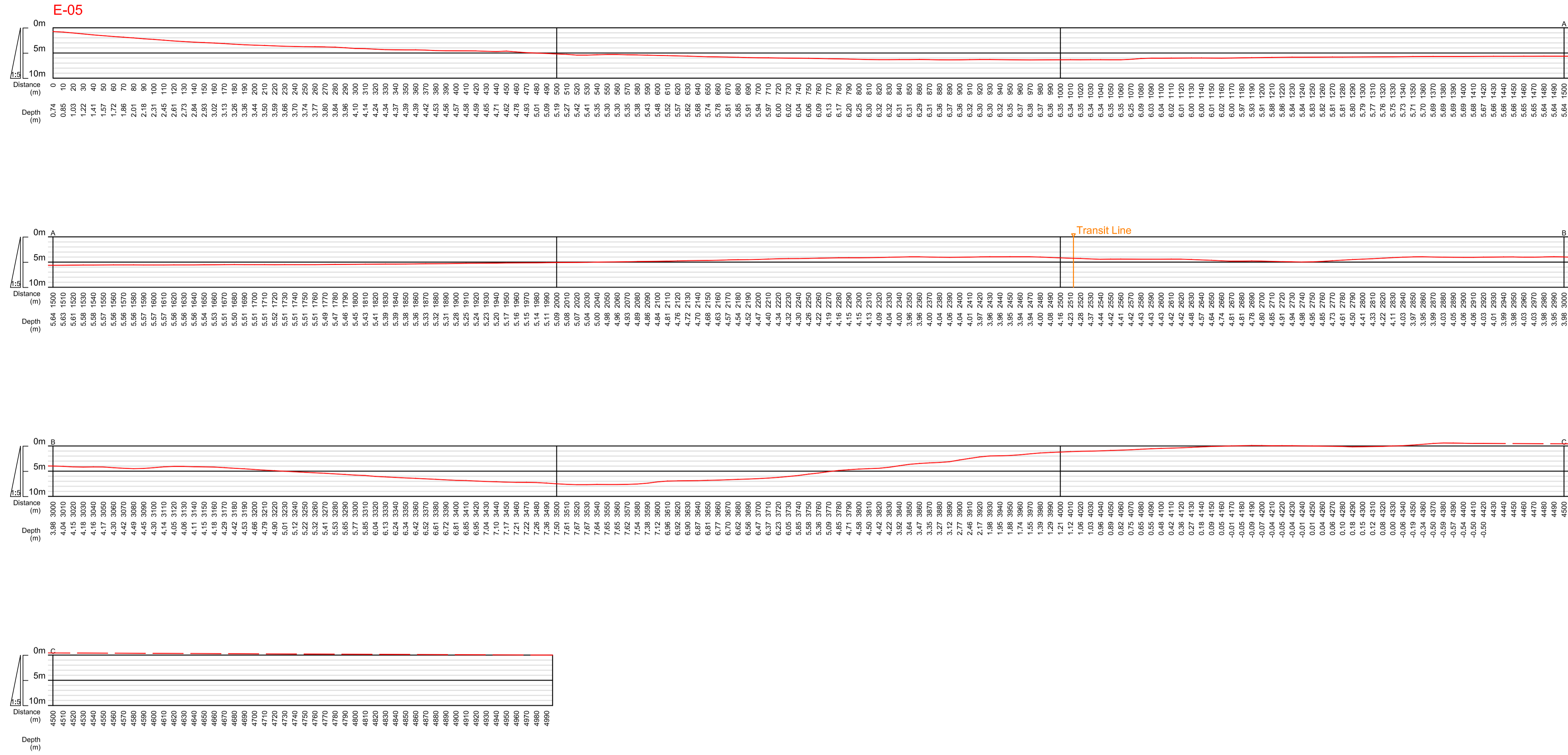


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 ASIA AIR SURVEY CO., LTD.
CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name
 The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title
 Cross sections at the river mouth area of the Yangon River after rainy season

Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-04
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



E-05	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 815 159.55	213 642.05	0
Transit Line	1 814 424.15	216 045.04	2 513
Left Bank	1 813 697.55	218 419.29	4 998

After Rainy Season



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Project Name

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Drawing Title

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Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

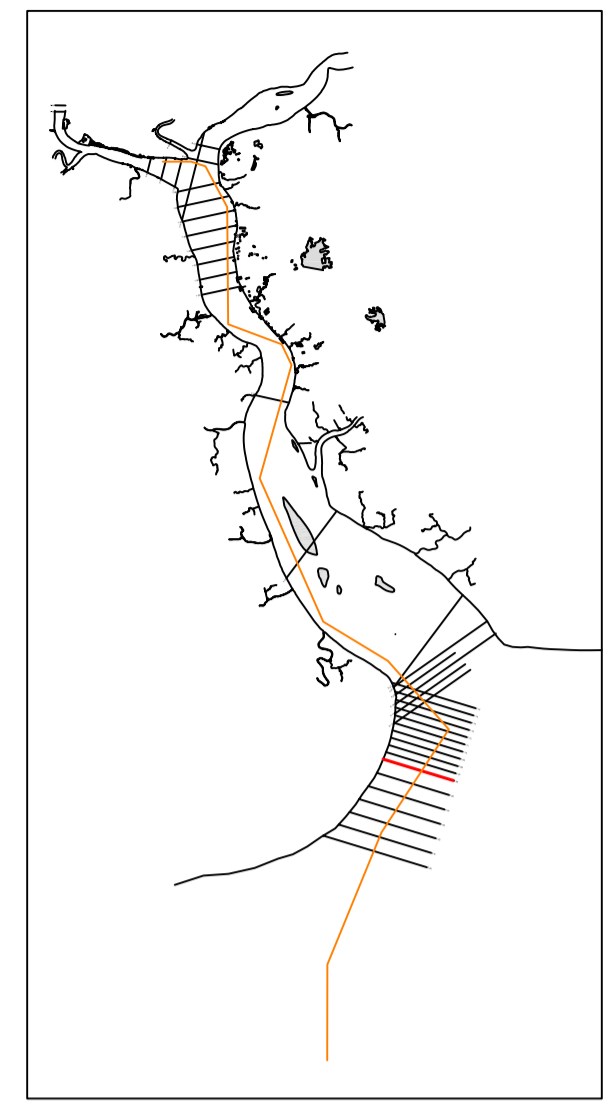
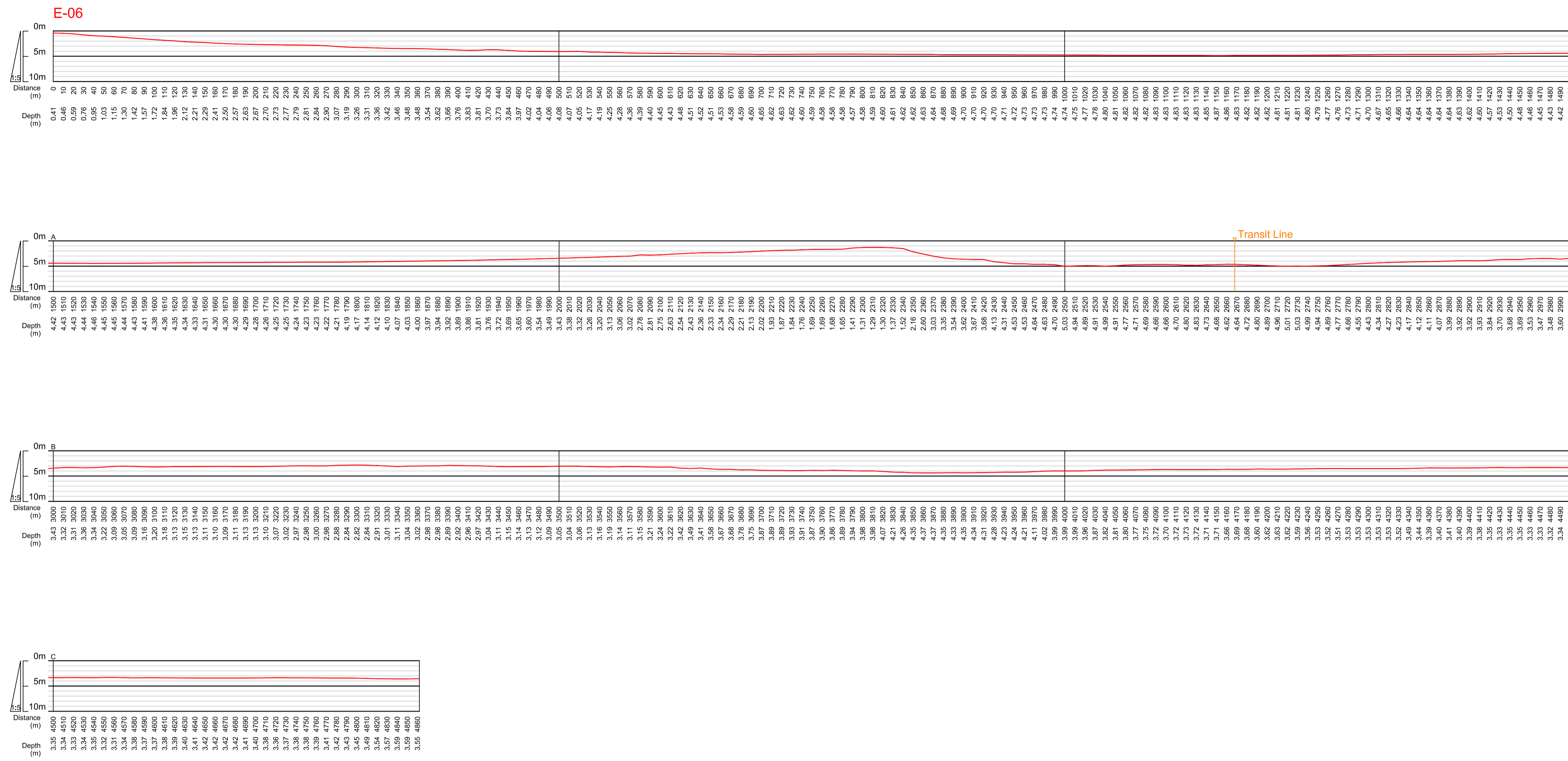
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Sheet No.

E-05

Scale

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H=5,000 V=1/1,000 (A3 Printing)



E-06	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 816 076.50	214 063.01	0
Transit Line	1 815 295.78	216 614.06	2 666
Left Bank	1 814 653.78	218 711.93	4 862

After Rainy Season



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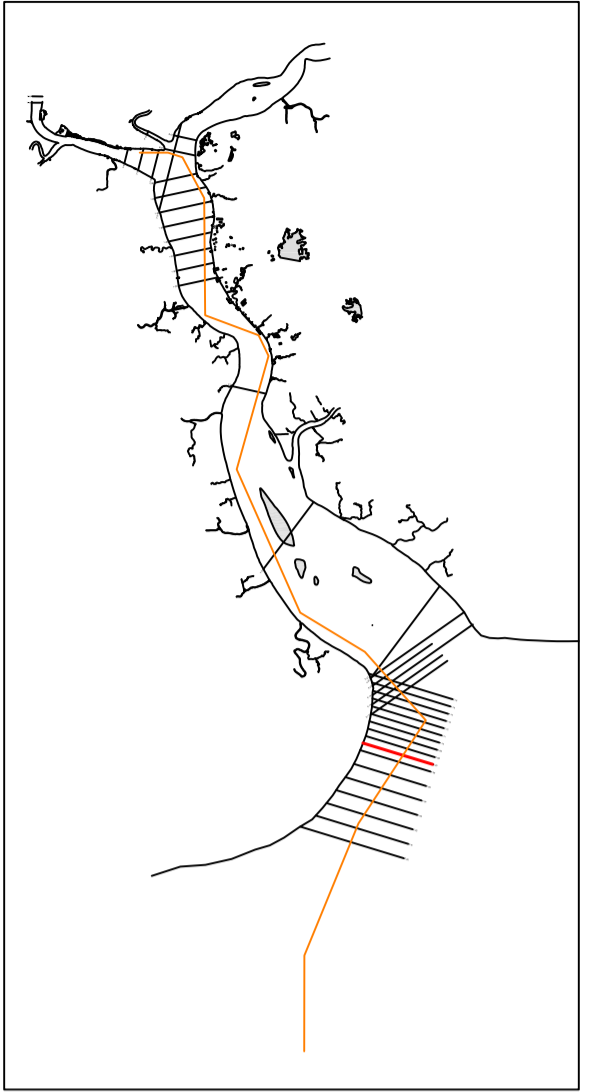
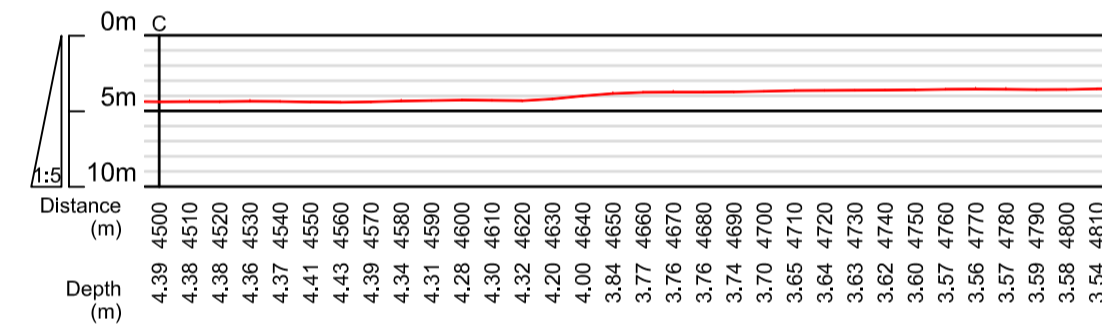
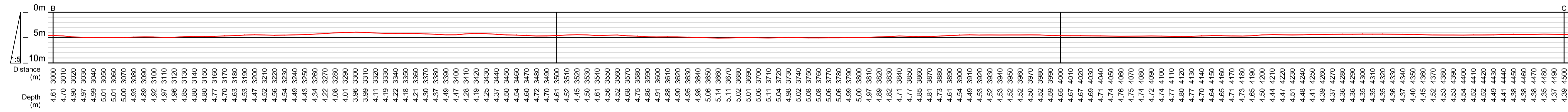
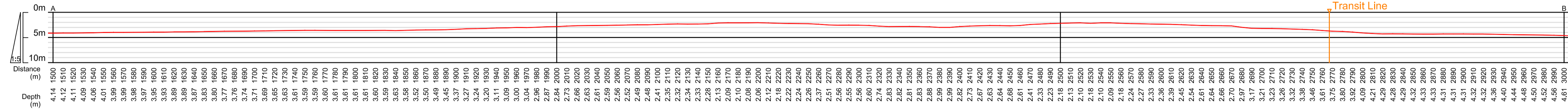
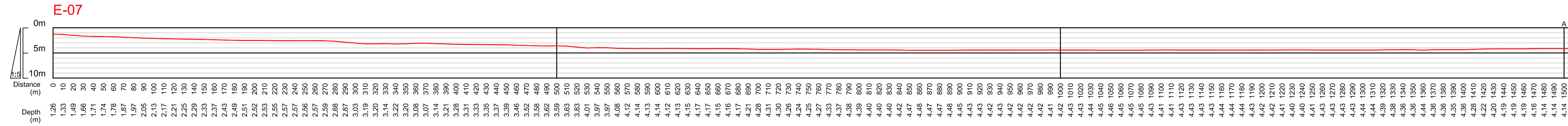


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	ASIA AIR SURVEY CO., LTD.
CONTRACTOR	
	ARC GEO SUPPORT CO., LTD.

Project Name	The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title	Cross sections at the river mouth area of the Yangon River after rainy season

Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-06
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 816 541.32	214 252.76	0
Transit Line	1 815 731.62	216 598.57	2 767
Left Bank	1 815 131.89	218 858.25	4 816

After Rainy Season



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JICA STUDY TEAM



ORIENTAL CONSULTANTS GLOBAL Co., LTD.



ASIA AIR SURVEY CO., LTD.

CONTRACTOR



ARC GEO SUPPORT CO., LTD.

Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Cross sections at the river mouth area of the Yangon River after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

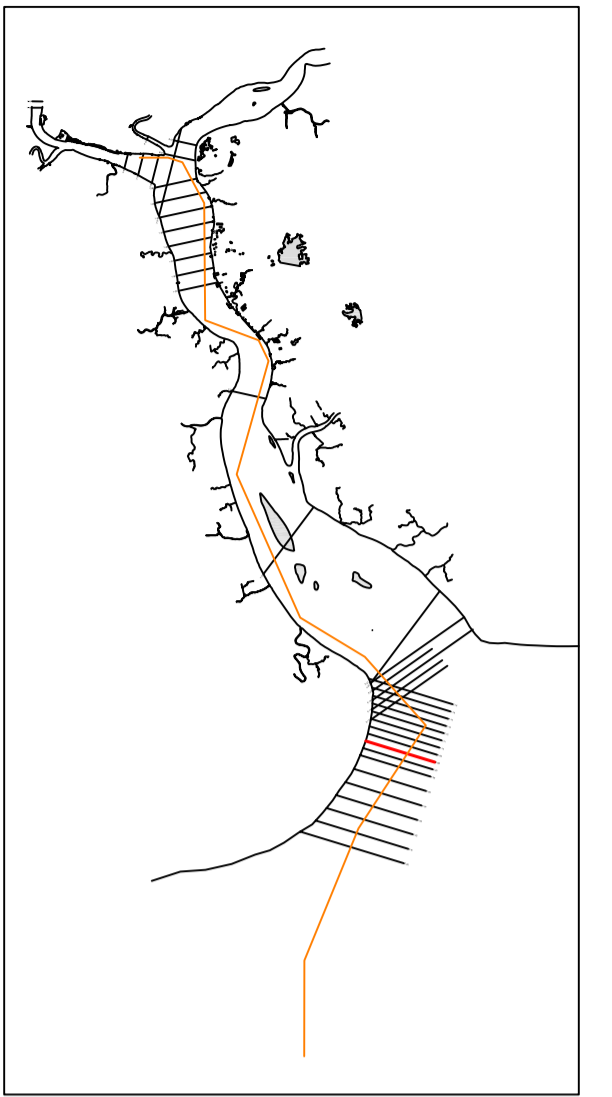
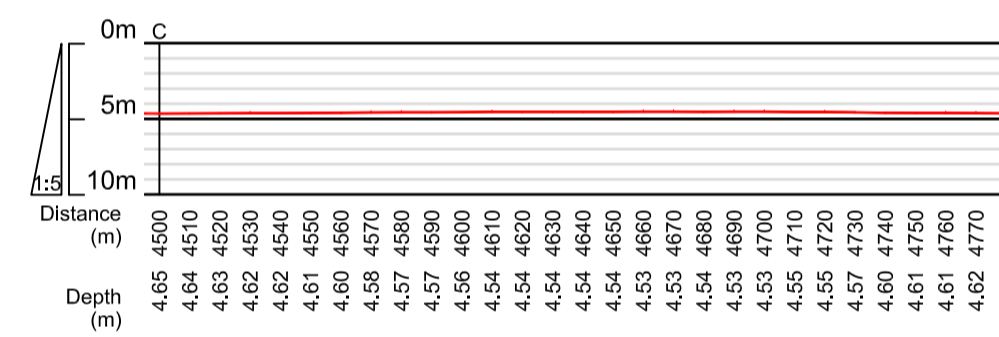
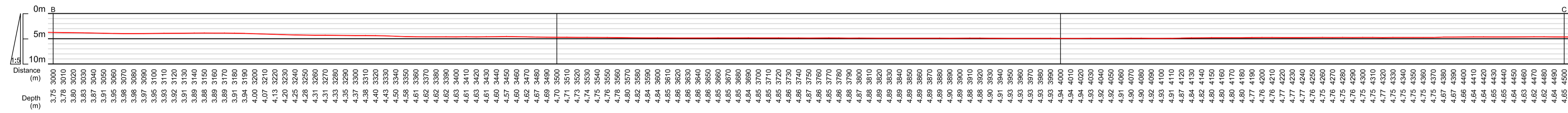
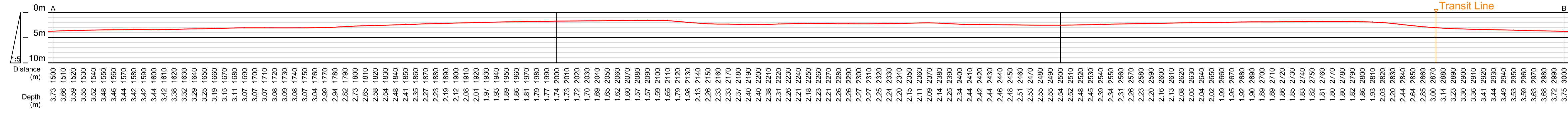
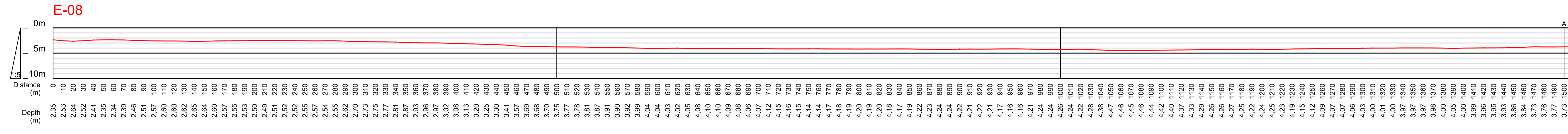
15 Jan 2016

Sheet No.

E-07

Scale

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H=5,000 V=1/1,000 (A3 Printing)



E-08	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 817 008.08	214 436.19	0
Transit Line	1 816 167.44	217 383.08	2 873
Left Bank	1 815 610.00	219 004.57	4 778

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CONTRACTOR



ARC GEO SUPPORT CO., LTD.

Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Cross sections at the river mouth area of the Yangon River after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

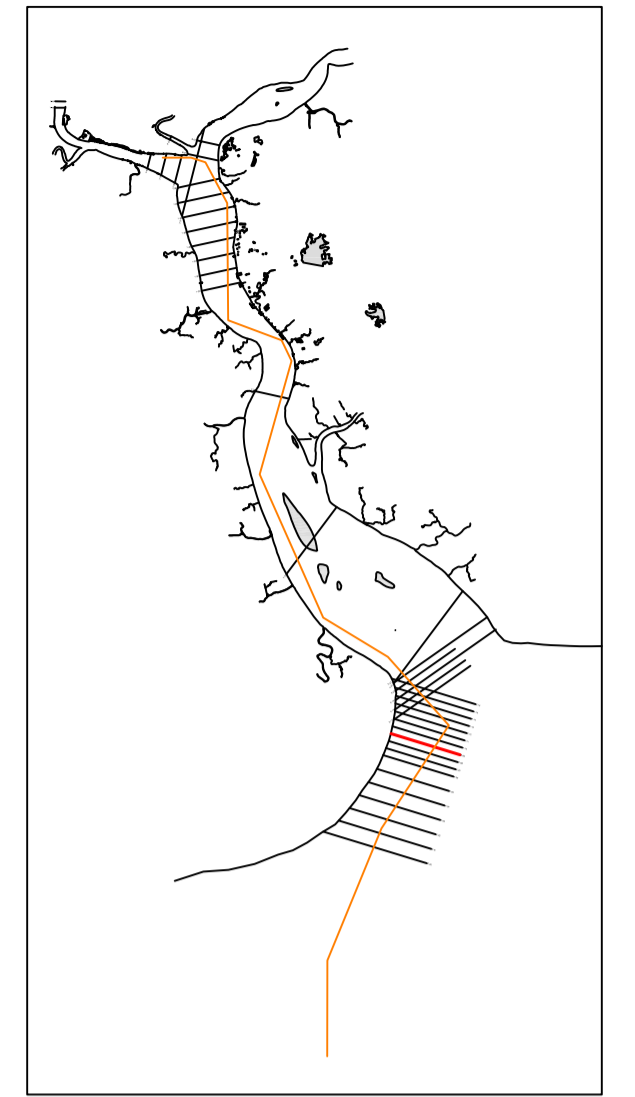
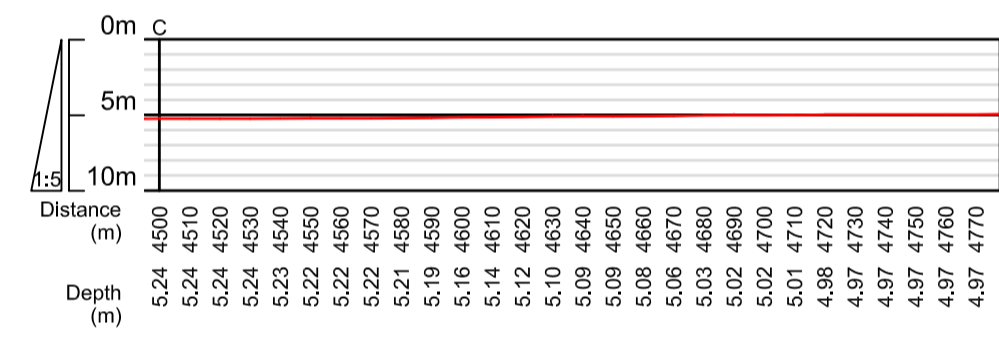
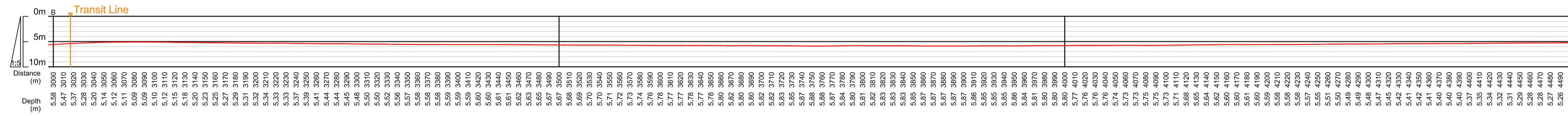
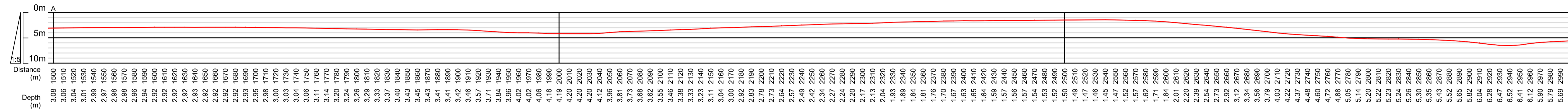
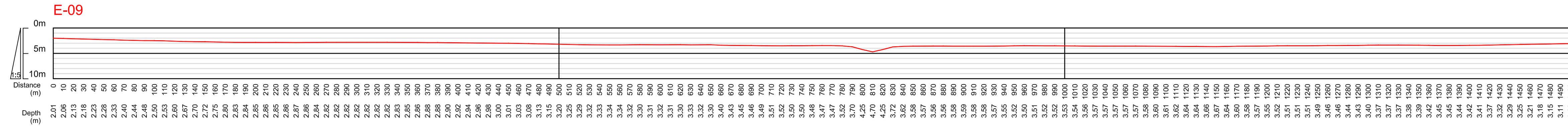
15 Jan 2016

Sheet No.

E-08

Scale

H=2,500 V=1/500 (A1 Printing)
H=5,000 V=1/1,000 (A3 Printing)



E-09	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 817 486,19	214 582,51	0
Transit Line	1 816 603,28	217 487,59	3 017
Left Bank	1 816 088,11	219 150,88	4 778

After Rainy Season



MYANMA PORT AUTHORITY (MPA)



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JICA STUDY TEAM



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Date of Survey

From 09 Nov 2015 to 09 Dec 2015

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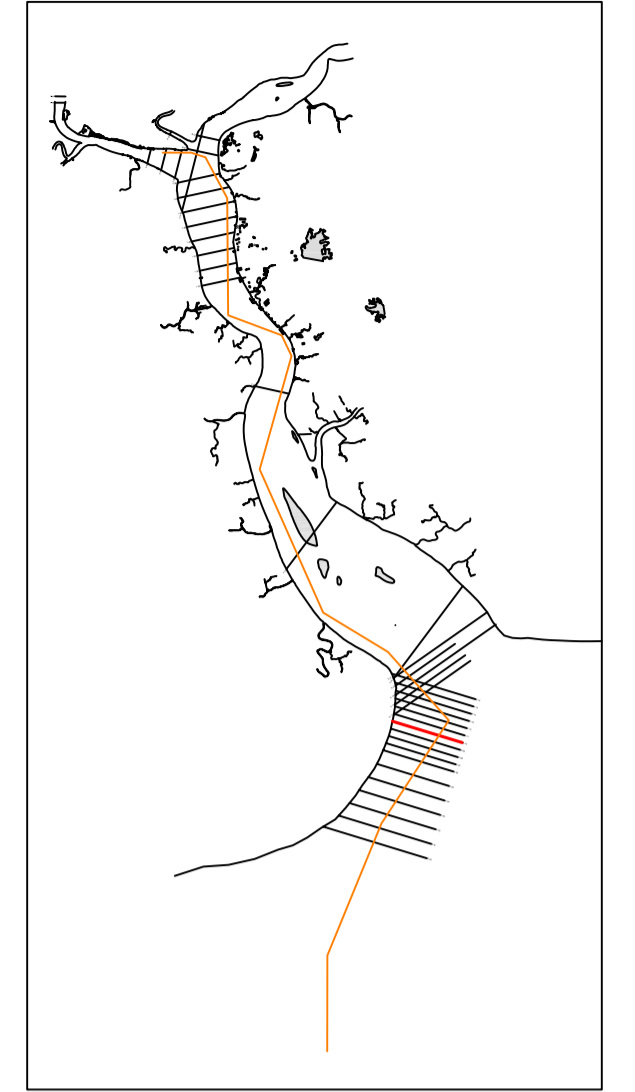
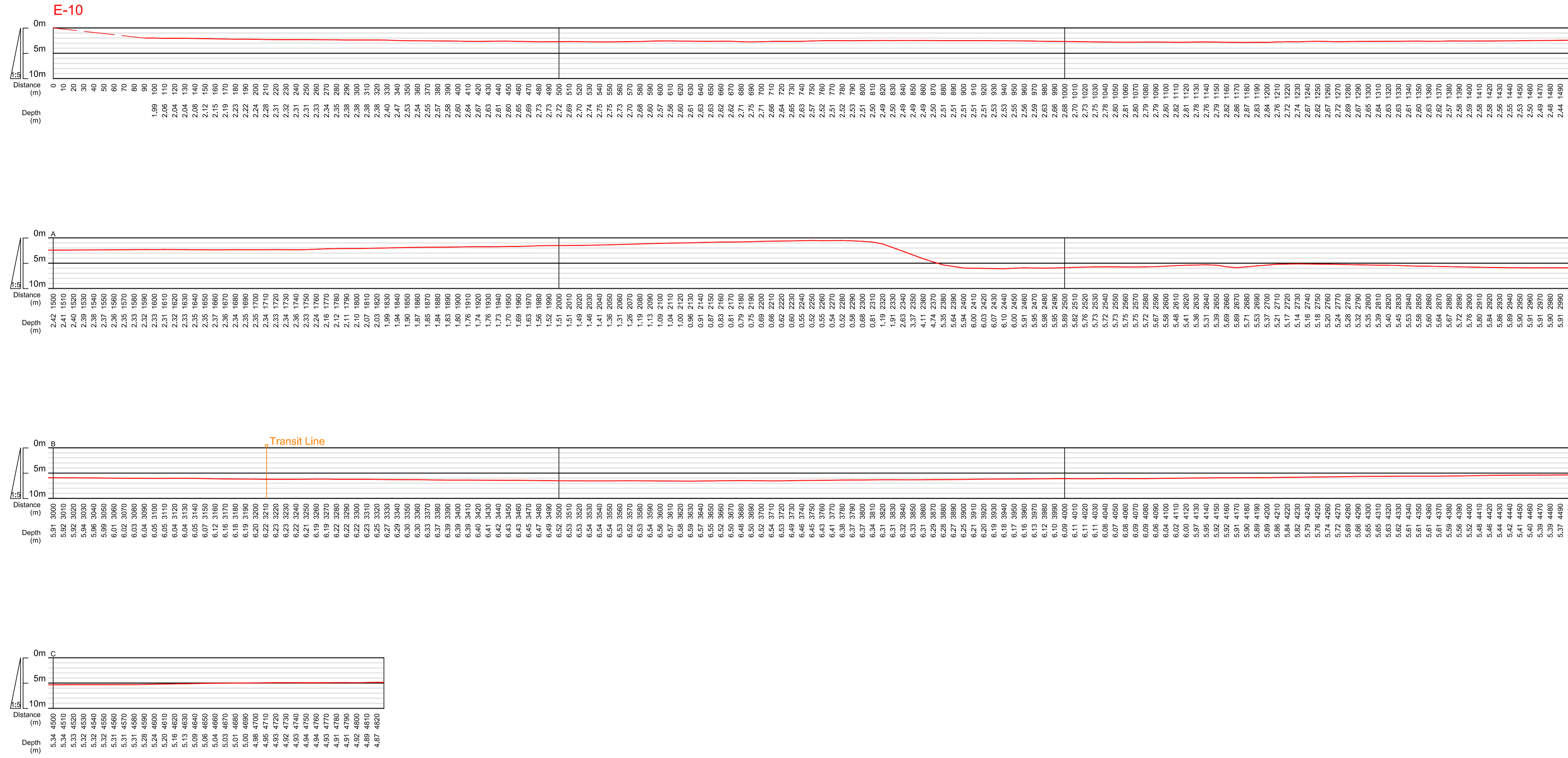
15 Jan 2016

Sheet No.

E-09

Scale

H=2,500 V=1/500 (A1 Printing)
H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 817 978.73	214 881.67	0
Transit Line	1 817 039.08	217 752.10	3 211
Left Bank	1 816 566.23	219 297.20	4 827

After Rainy Season

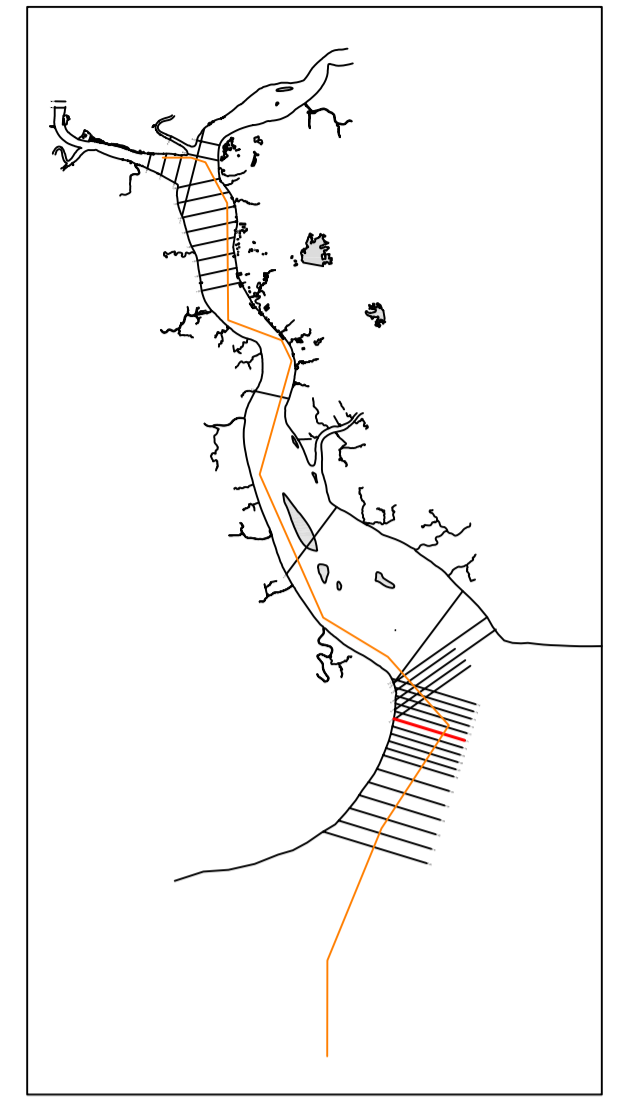
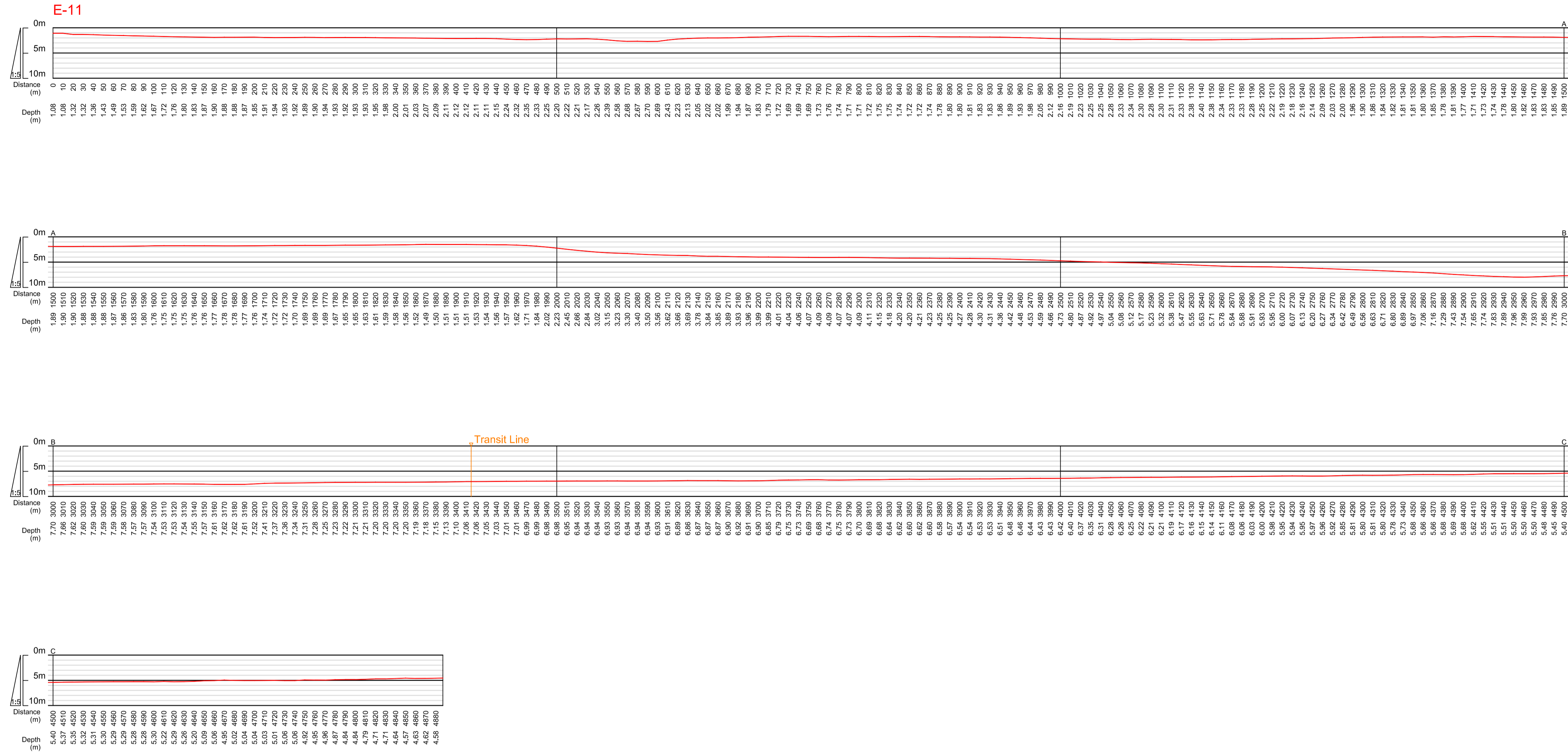


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JICA STUDY TEAM	
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CONTRACTOR	
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Project Name	The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title	Cross sections at the river mouth area of the Yangon River after rainy season

Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-10
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 818 474.33	214 770.85	0
Transit Line	1 817 474.90	218 036.61	3 415
Left Bank	1 817 044.34	219 243.52	4 887

After Rainy Season

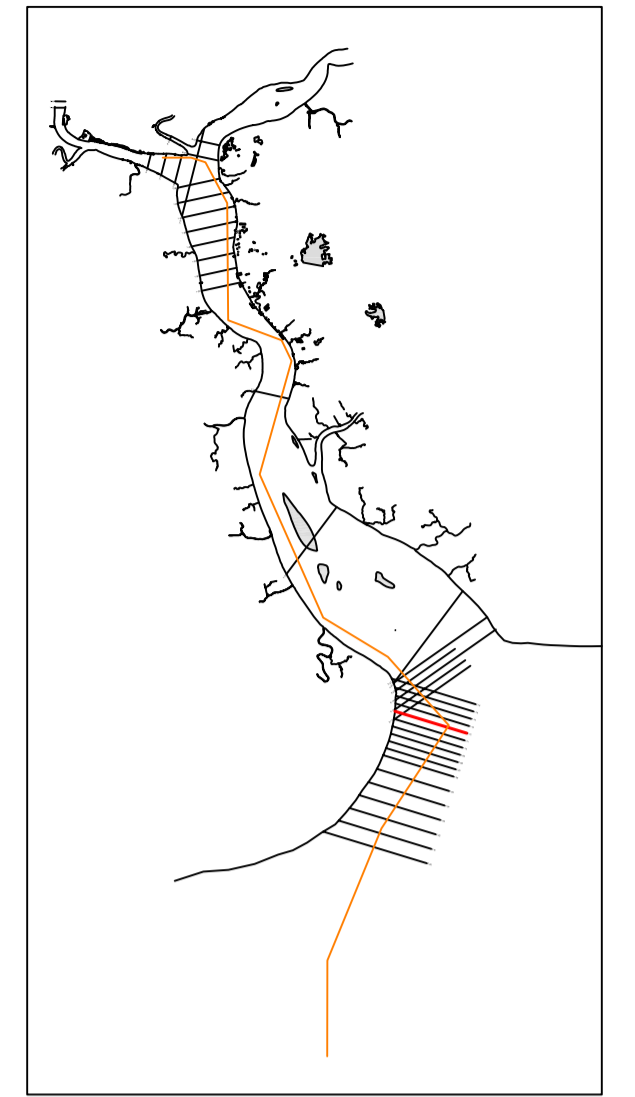
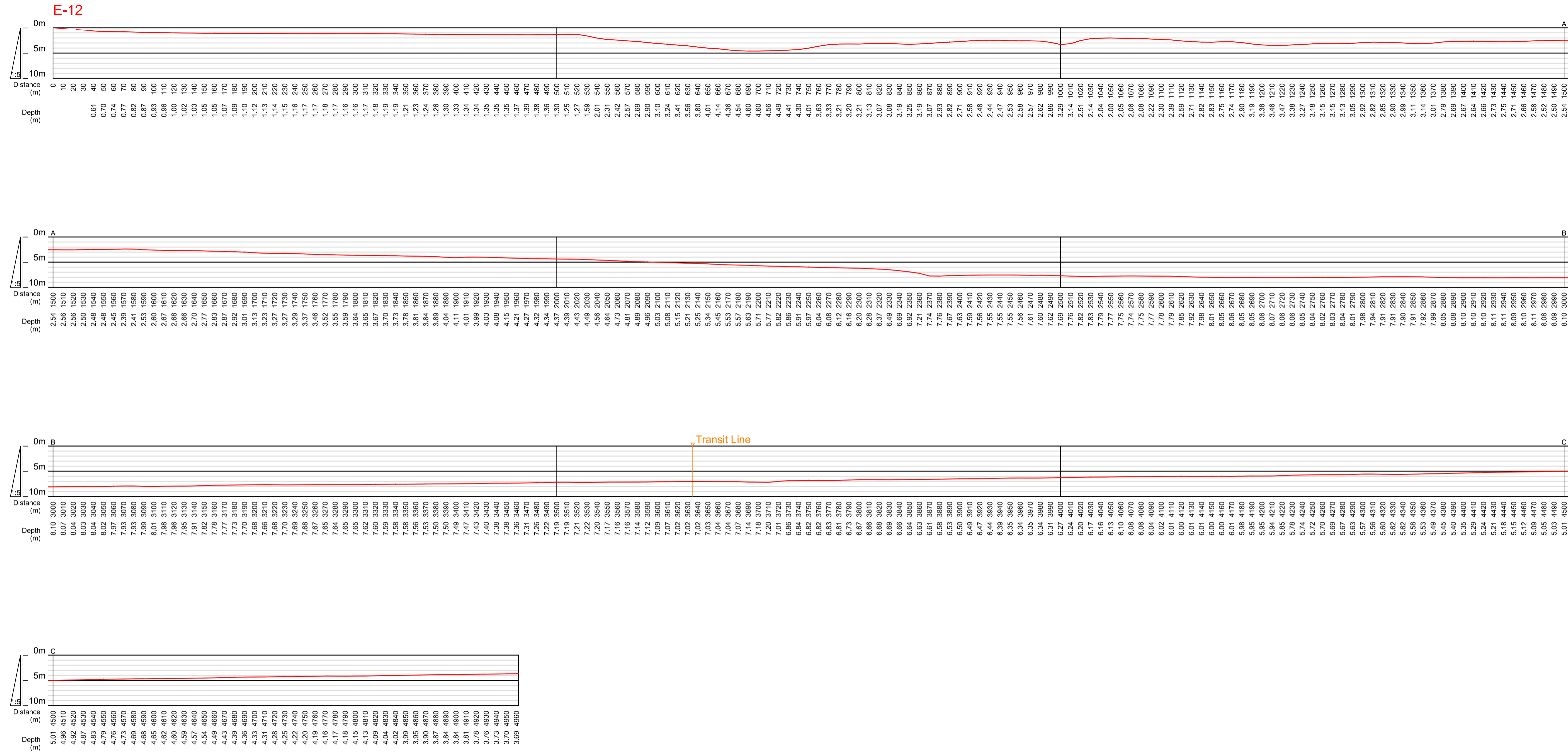


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Cross sections at the river mouth area of the Yangon River after rainy season

Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-11
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



E-12	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 818 974.40	214 845.41	0
Transit Line	1 817 910.72	218 371.11	3 635
Left Bank	1 817 522.45	219 589.84	4 962

After Rainy Season



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WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

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Date of Survey

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Date of Drawing

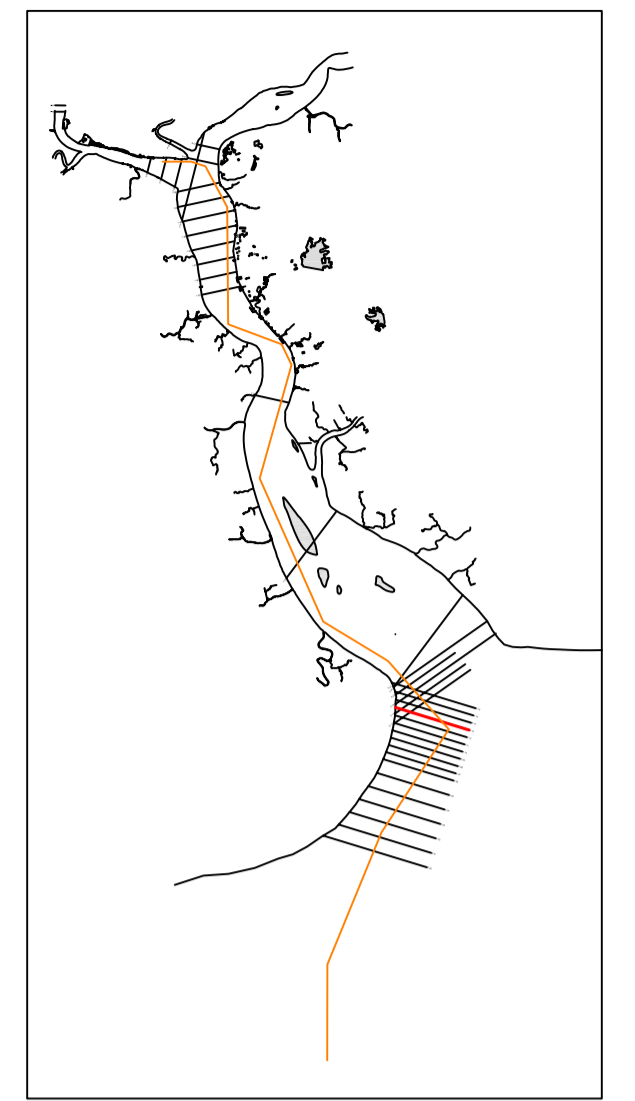
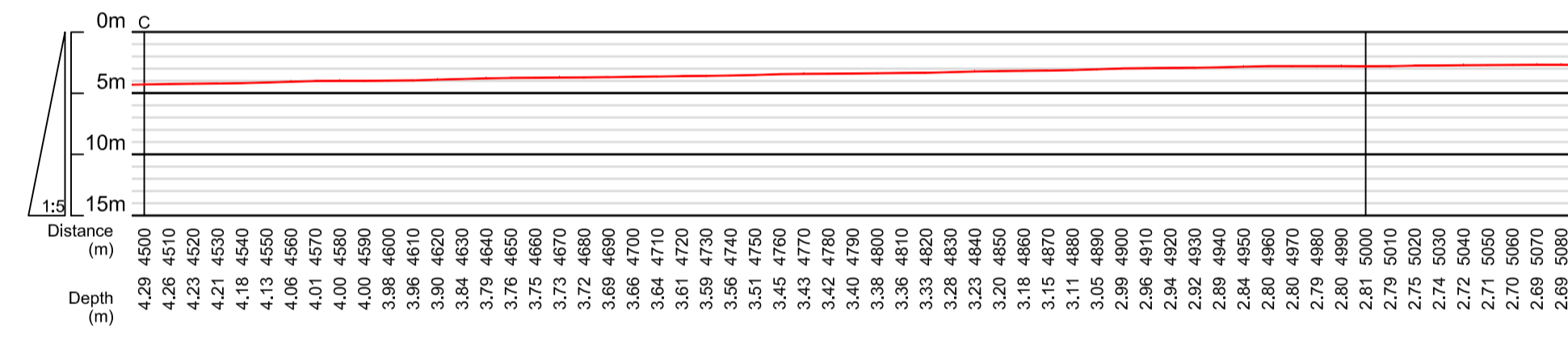
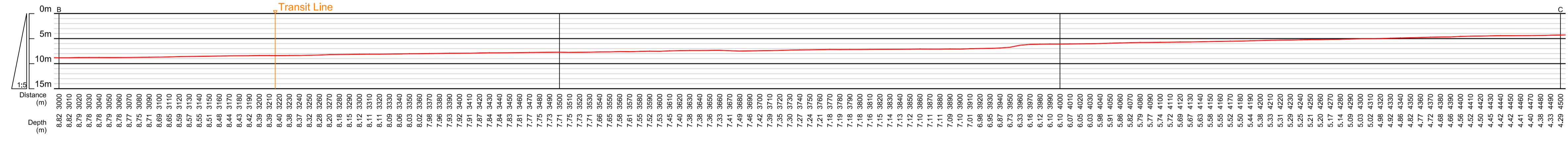
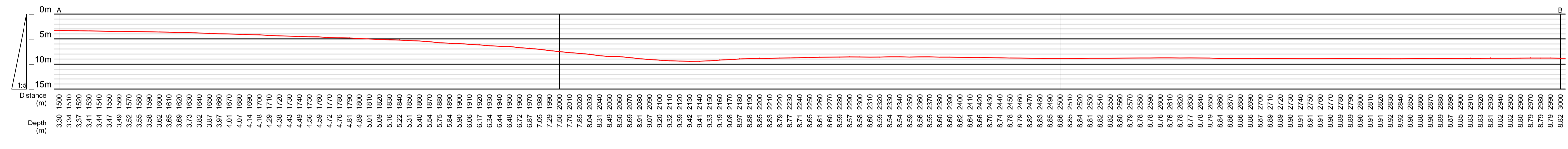
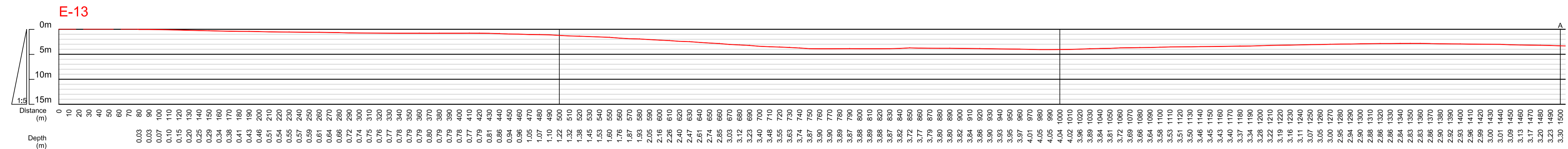
15 Jan 2016

Sheet No.

E-12

Scale

H=2,500 V=1/500 (A1 Printing)
H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 819 488.88	214 872.90	0
Transit Line	1 818 547.67	217 348.41	3 216
Left Bank	1 818 000.56	219 736.16	5 080

After Rainy Season



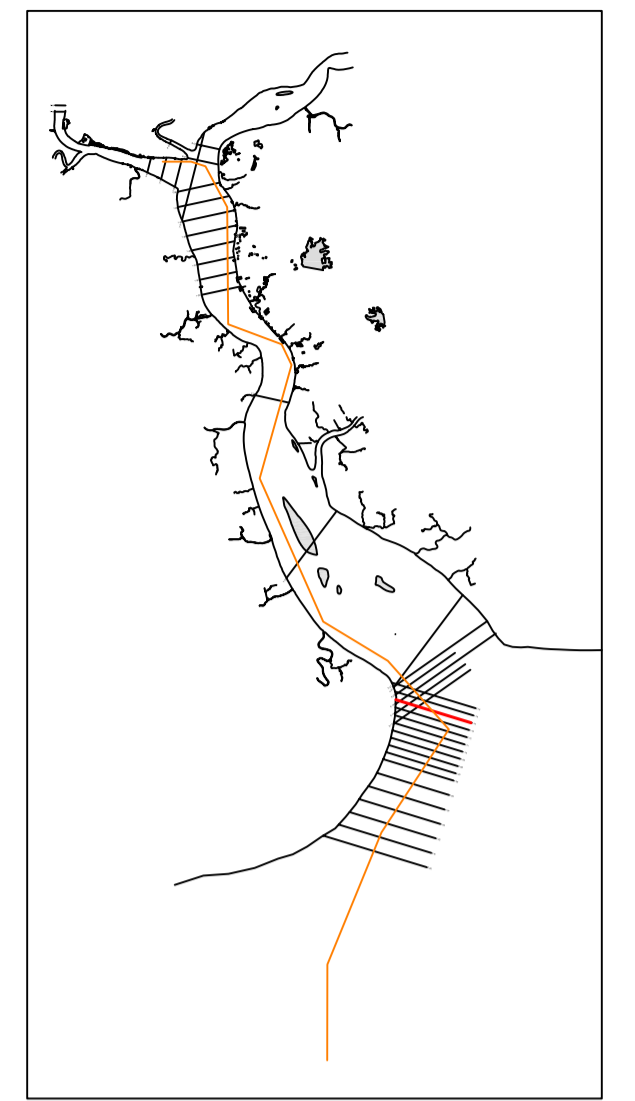
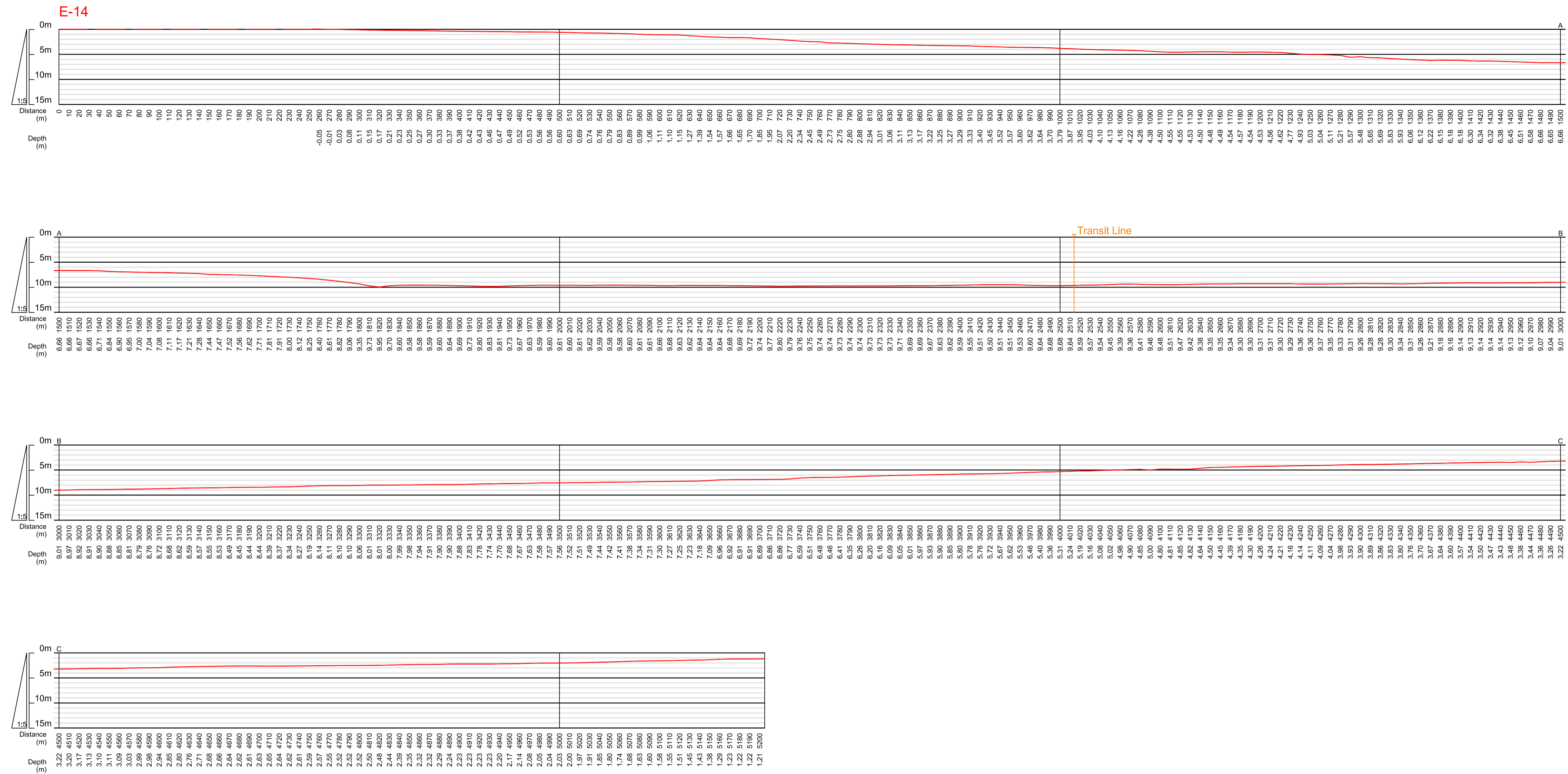
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Projection
 UTM Zone 47 N
Ellipsoid
 WGS - 84
Datum Level
 Chart Datum of Yangon Port
Revision
 1.0.0

Date of Survey
 From 09 Nov 2015 to 09 Dec 2015
Date of Drawing
 15 Jan 2016
Sheet No.
 E-13
Scale
 H=2,500 V=1/500 (A1 Printing)
 H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 820 001.75	214 905.63	0
Transit Line	1 819 265.99	217 309.83	2 514
Left Bank	1 818 478.67	219 882.47	5 205

After Rainy Season



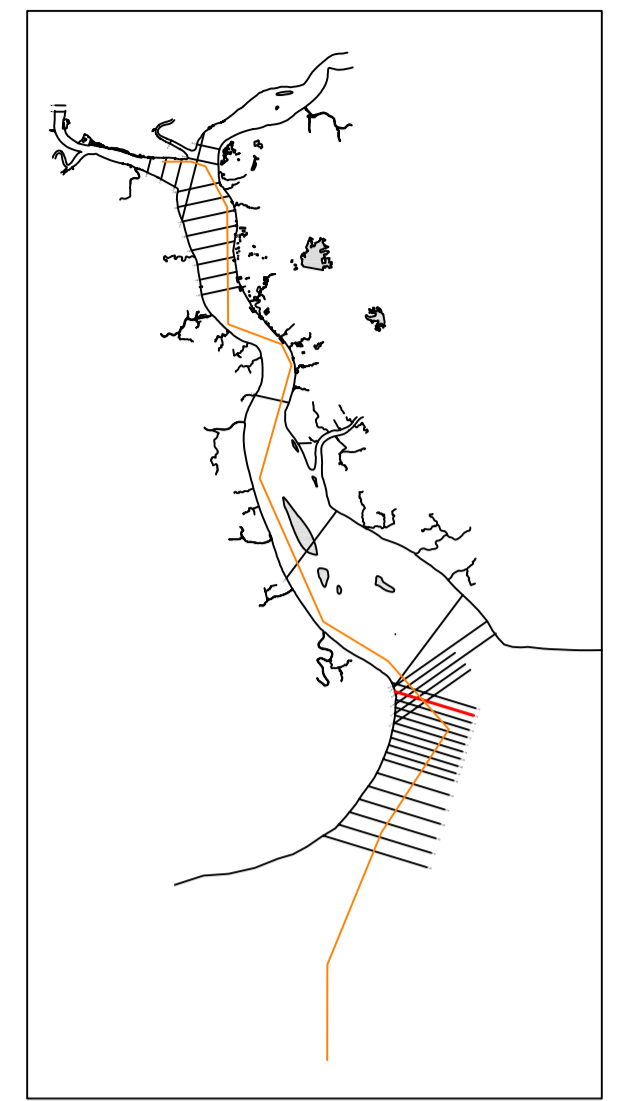
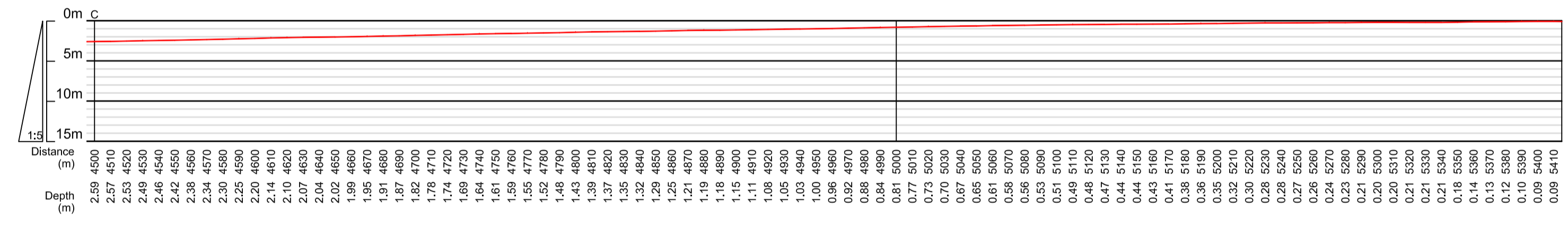
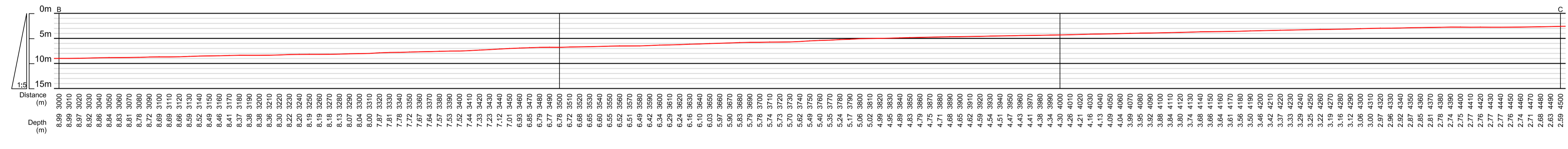
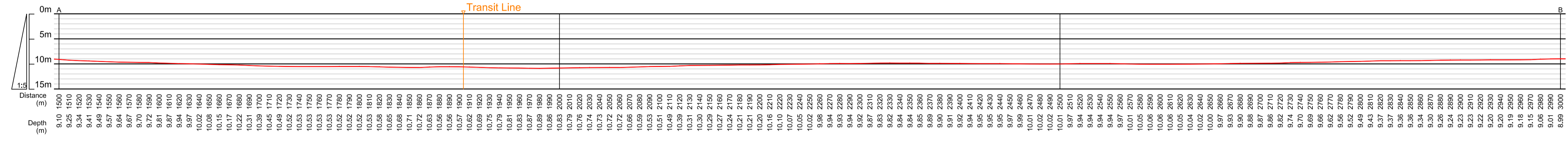
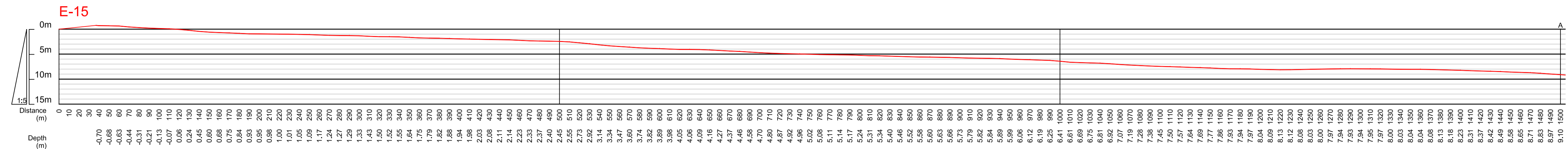
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Projection
 UTM Zone 47 N
Ellipsoid
 WGS - 84
Datum Level
 Chart Datum of Yangon Port
Revision
 1.0.0

Date of Survey
 From 09 Nov 2015 to 09 Dec 2015
Date of Drawing
 15 Jan 2016
Sheet No.
 E-14
Scale
 H=2,500 V=1/500 (A1 Printing)
 H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 820 541.54	214 850.41	0
Transit Line	1 819 994.30	216 674.26	1 900
Left Bank	1 818 956.79	220 028.79	5 415

After Rainy Season

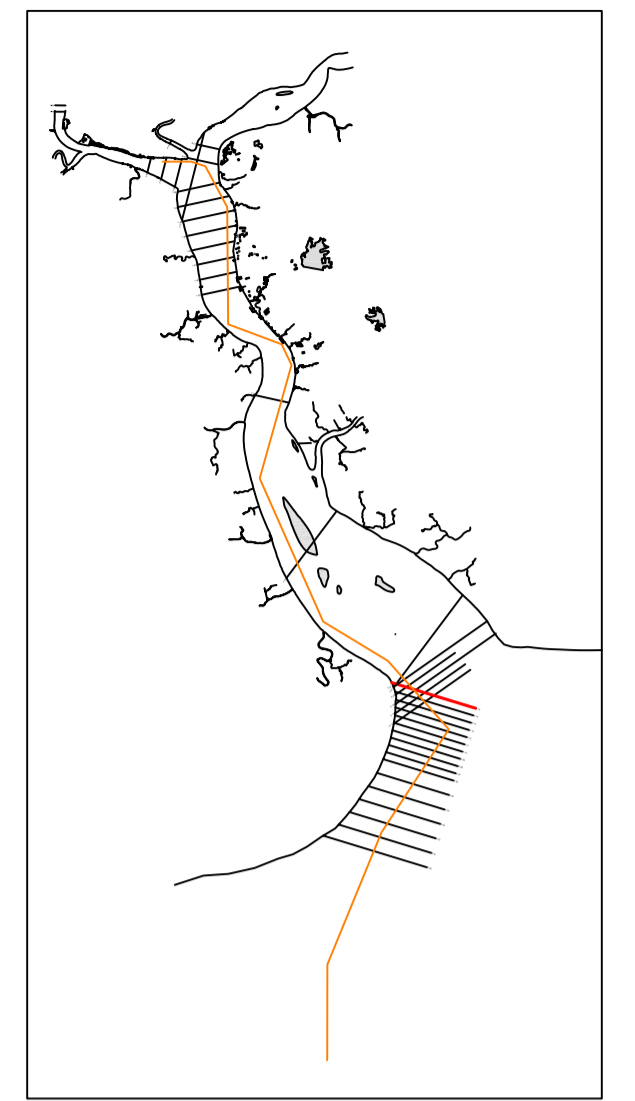
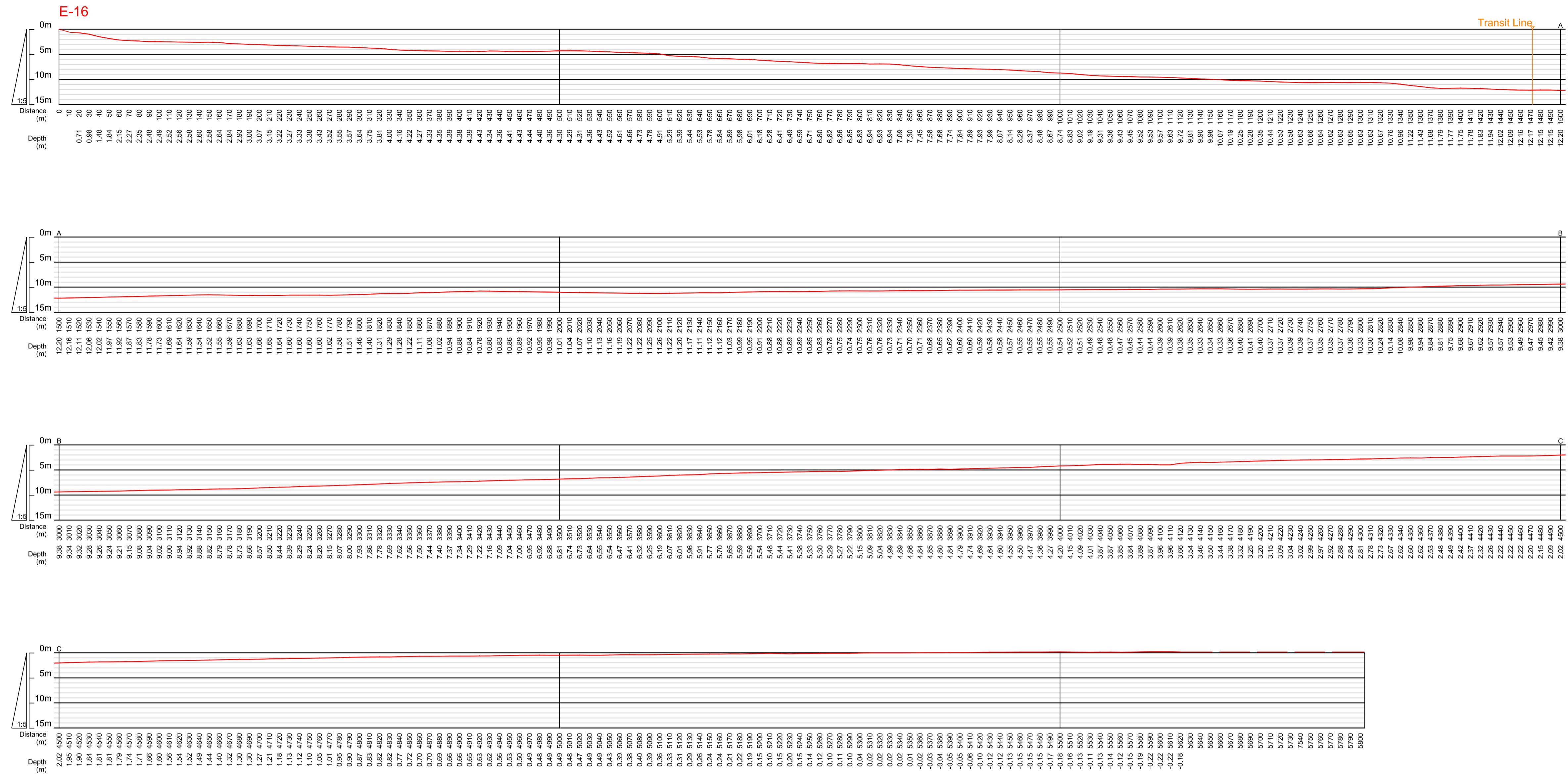


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Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-15
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,821,133.46	214,624.84	0
Transit Line	1,820,702.61	216,932.69	1,472
Left Bank	1,819,434.90	220,175.11	5,804

After Rainy Season



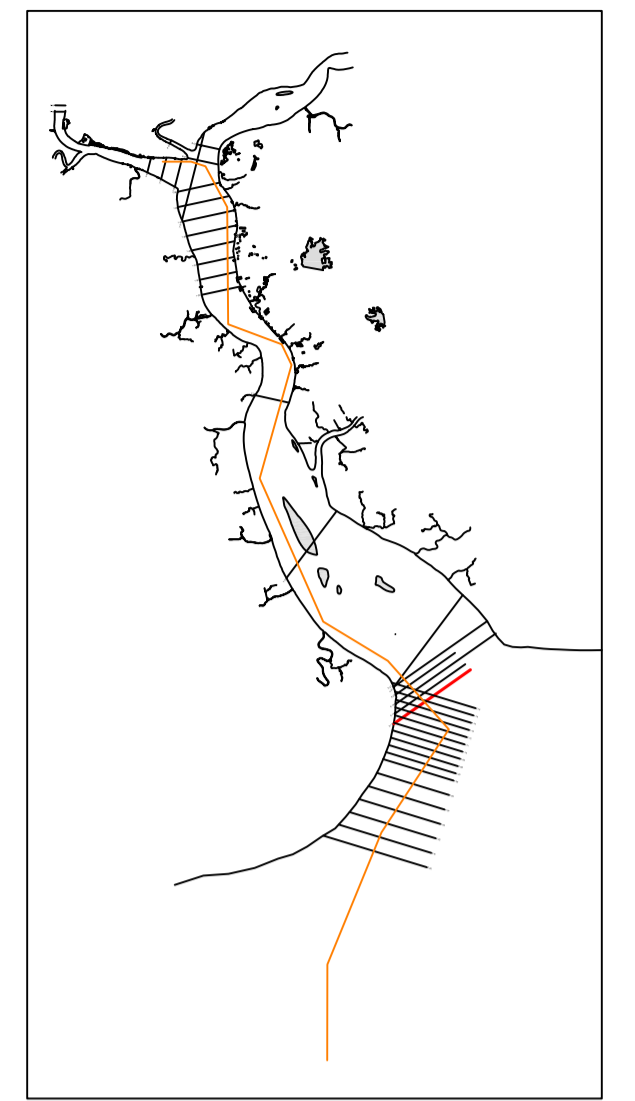
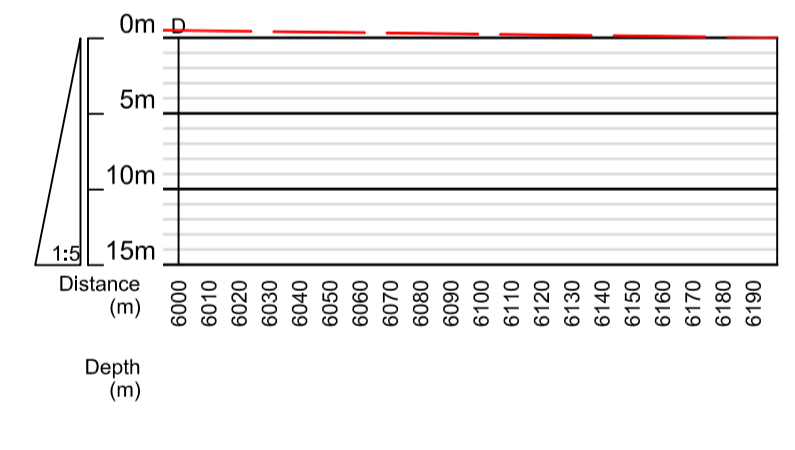
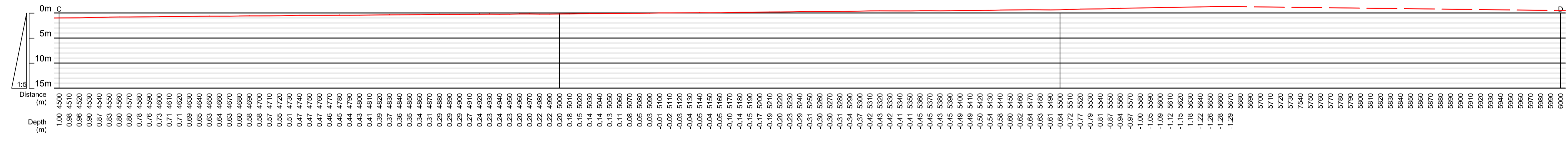
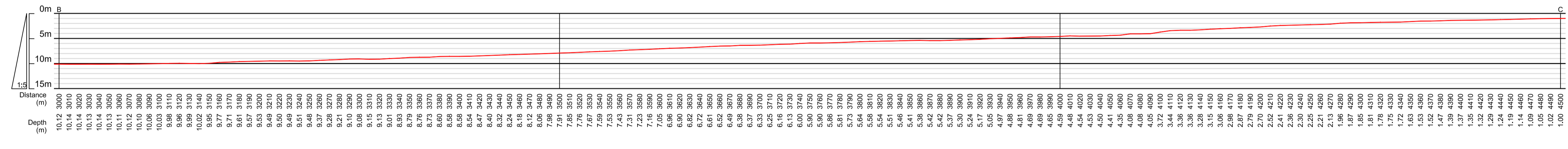
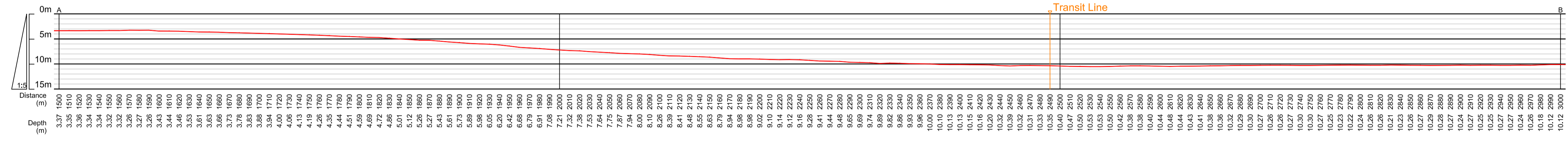
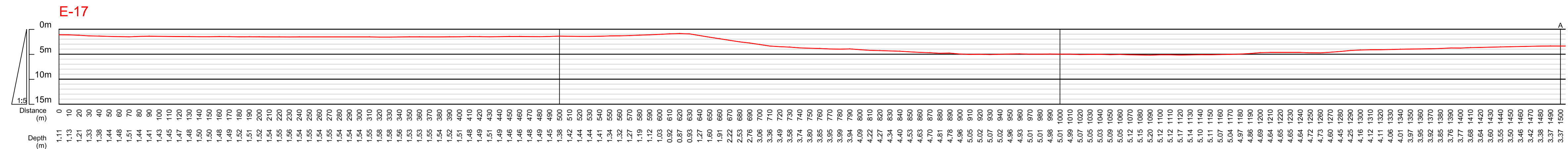
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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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Projection
 UTM Zone 47 N
Ellipsoid
 WGS - 84
Datum Level
 Chart Datum of Yangon Port
Revision
 1.0.0

Date of Survey
 From 09 Nov 2015 to 09 Dec 2015
Date of Drawing
 15 Jan 2016
Sheet No.
 E-16
Scale
 H=2,500 V=1/500 (A1 Printing)
 H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 818 409.40	214 761.99	0
Transit Line	1 819 840.71	216 798.91	2 490
Left Bank	1 821 972.67	219 832.93	6 198

After Rainy Season



MYANMA PORT AUTHORITY (MPA)

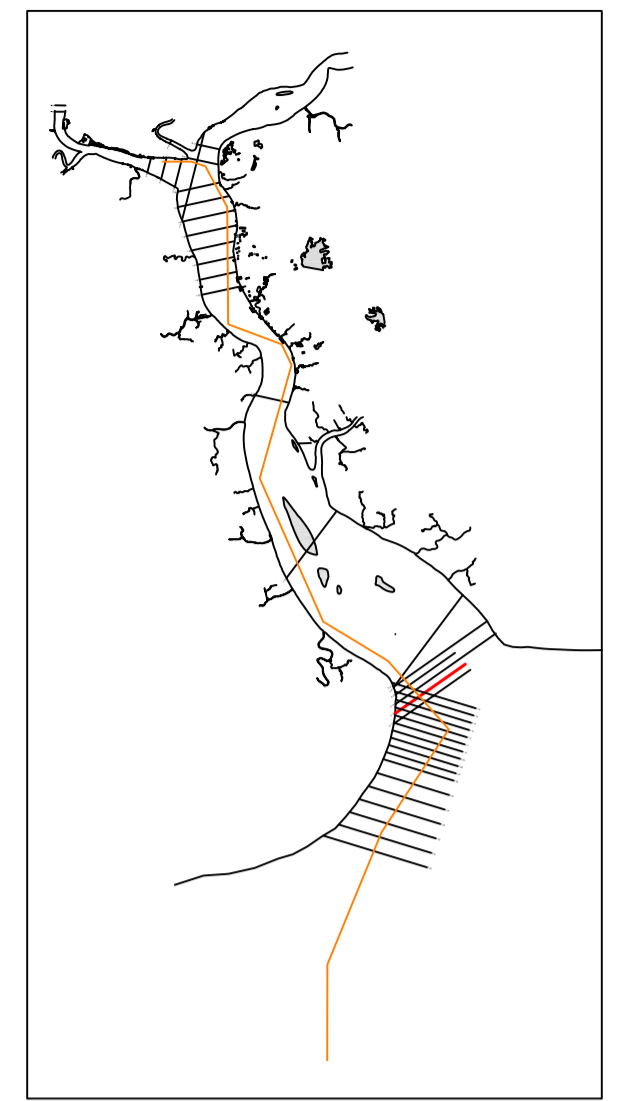
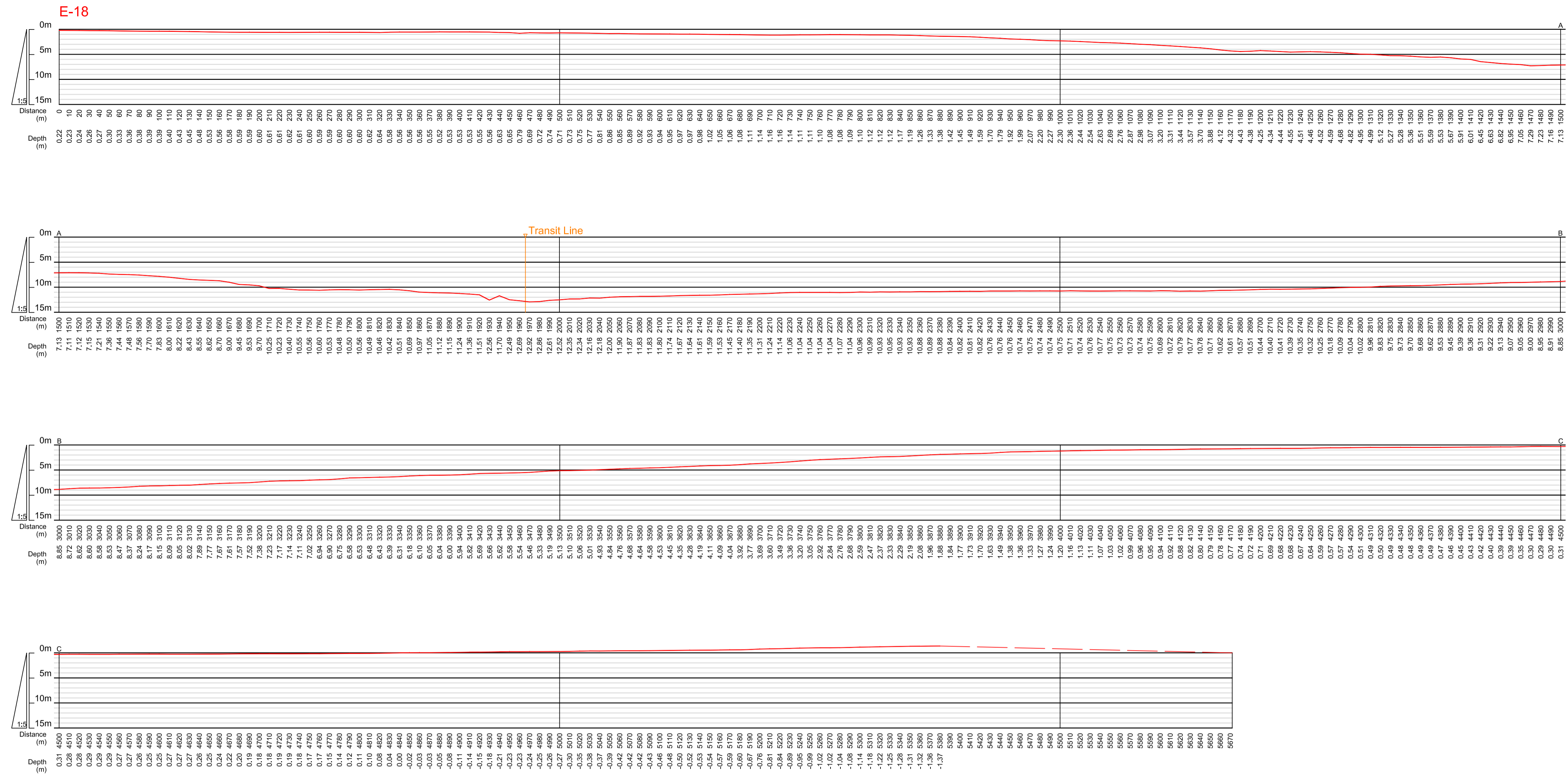


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Project Name	The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
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Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-17
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 819,086.29	214 855.62	0
Transit Line	1 820,216.83	216,484.53	1,986
Left Bank	1 822,347.08	219,496.10	5,672

After Rainy Season

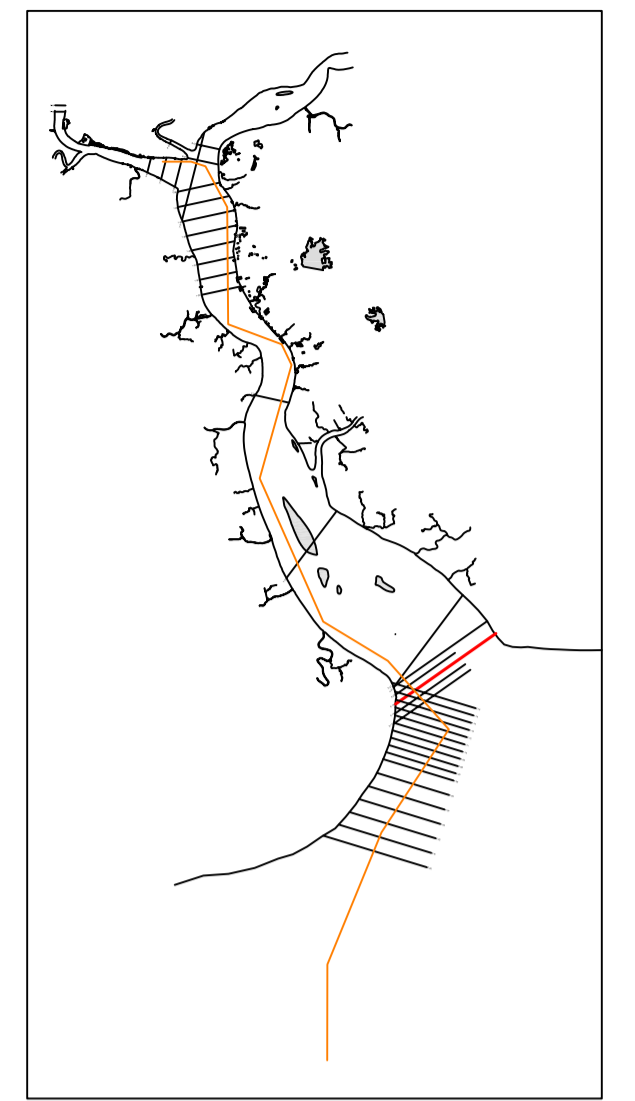
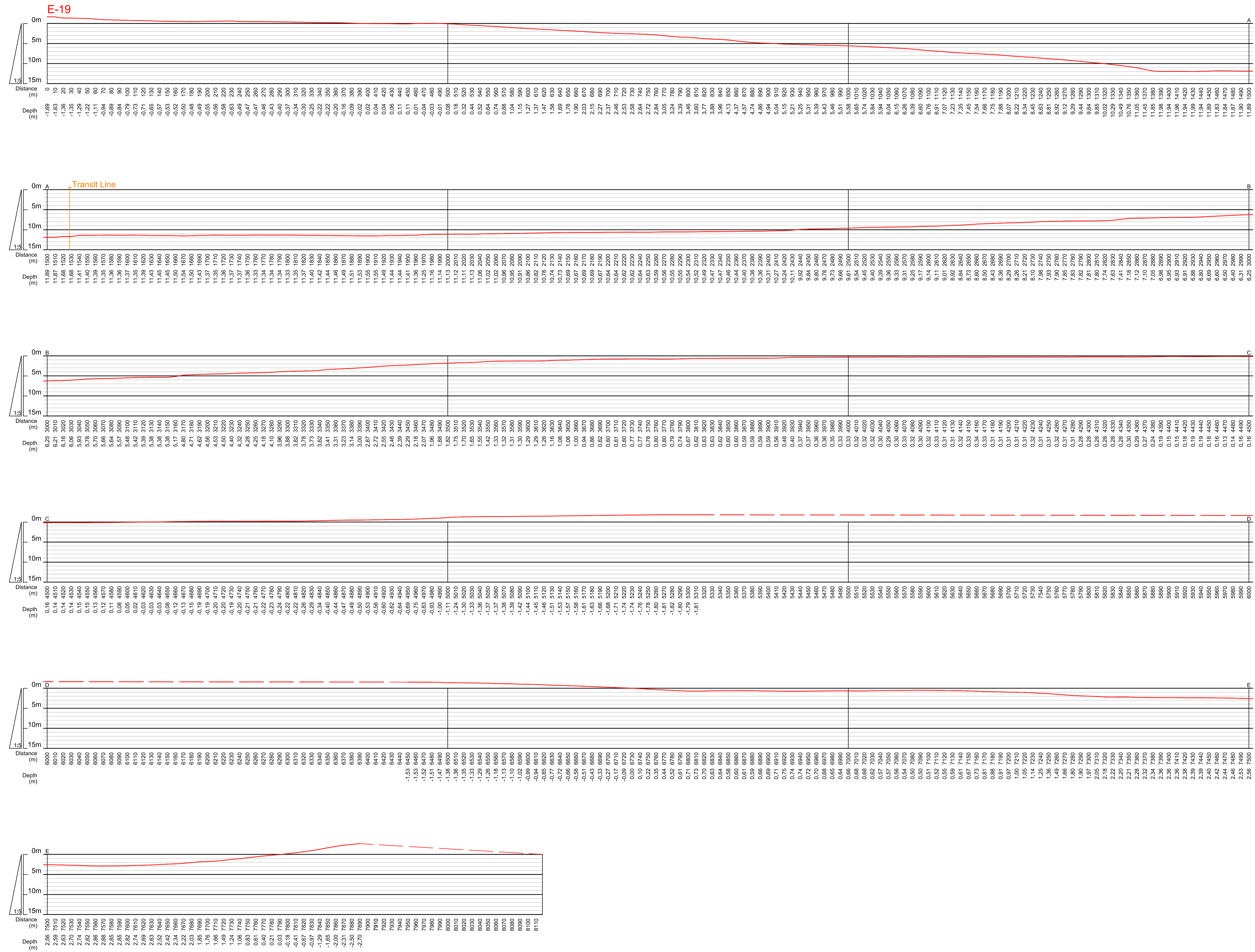


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Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-18
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 819,714.64	214 880.18	0
Transit Line	1 820,597.98	216 130.15	1,520
Left Bank	1 824,381.70	221,521.94	8,118

After Rainy Season

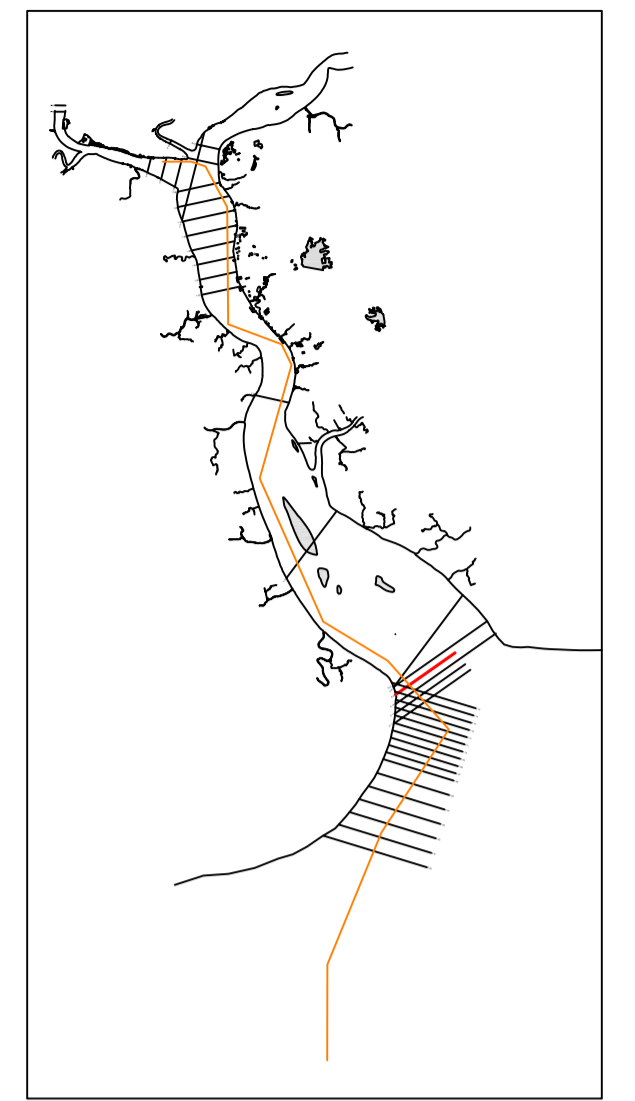
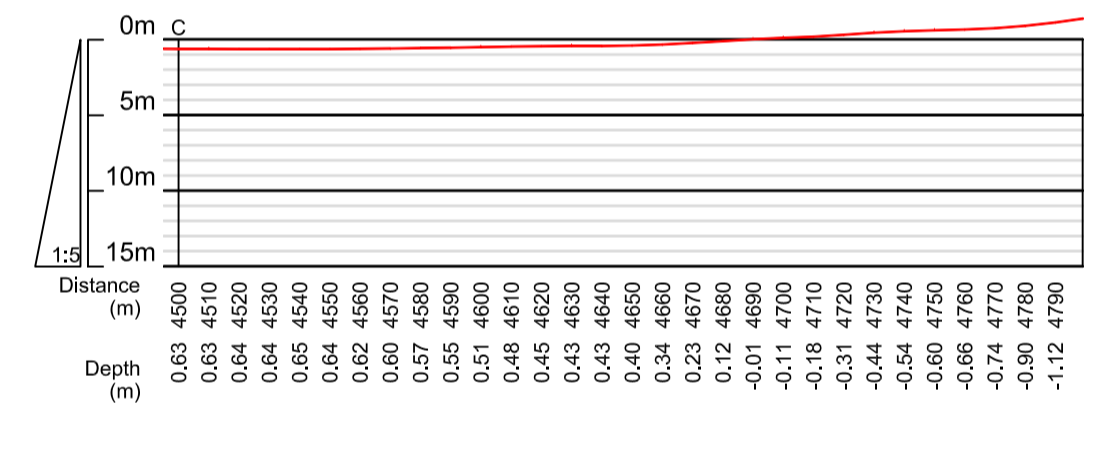
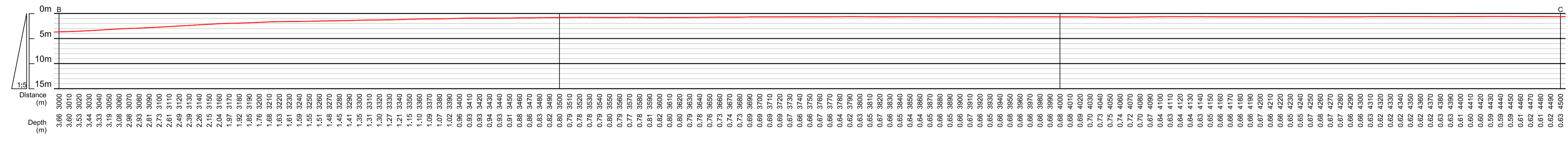
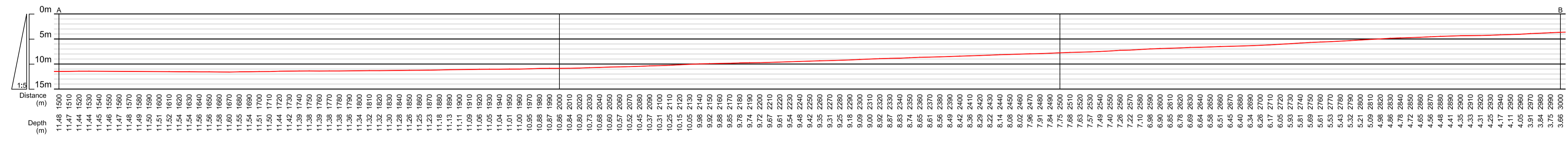
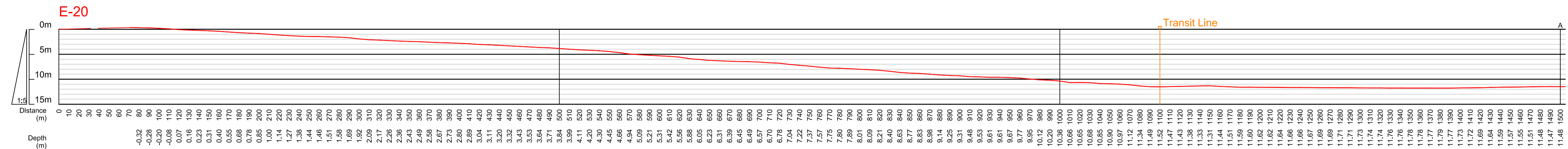


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Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-19
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 820 336.84	214 895.98	0
Transit Line	1 823 055.12	215 795.77	1 100
Left Bank	1 823 055.90	218 822.43	4 790

After Rainy Season



MYANMA PORT AUTHORITY (MPA)



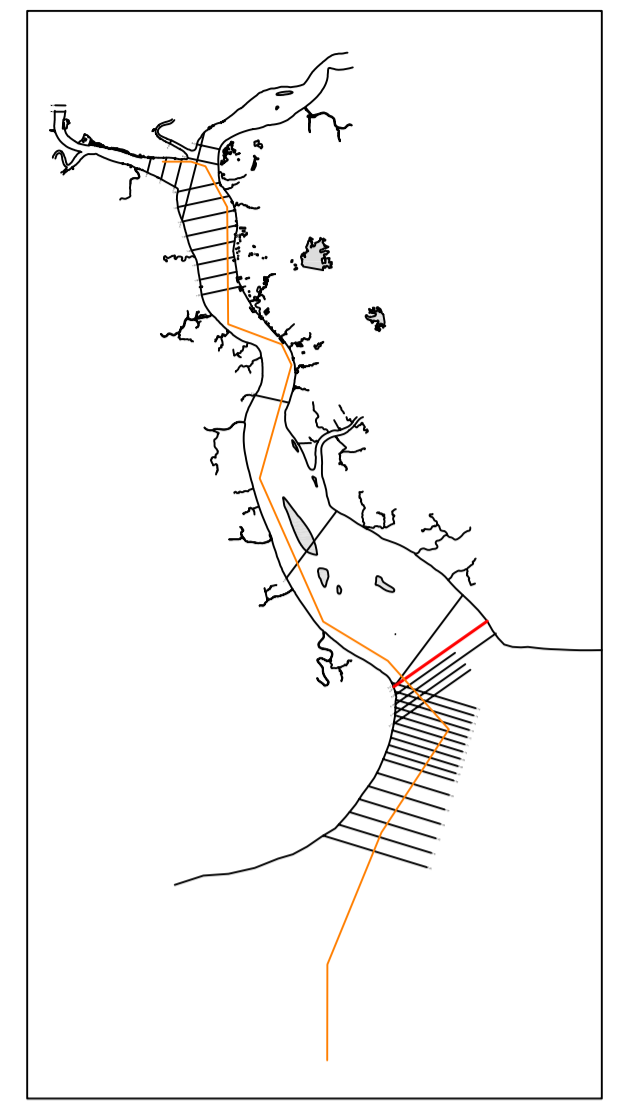
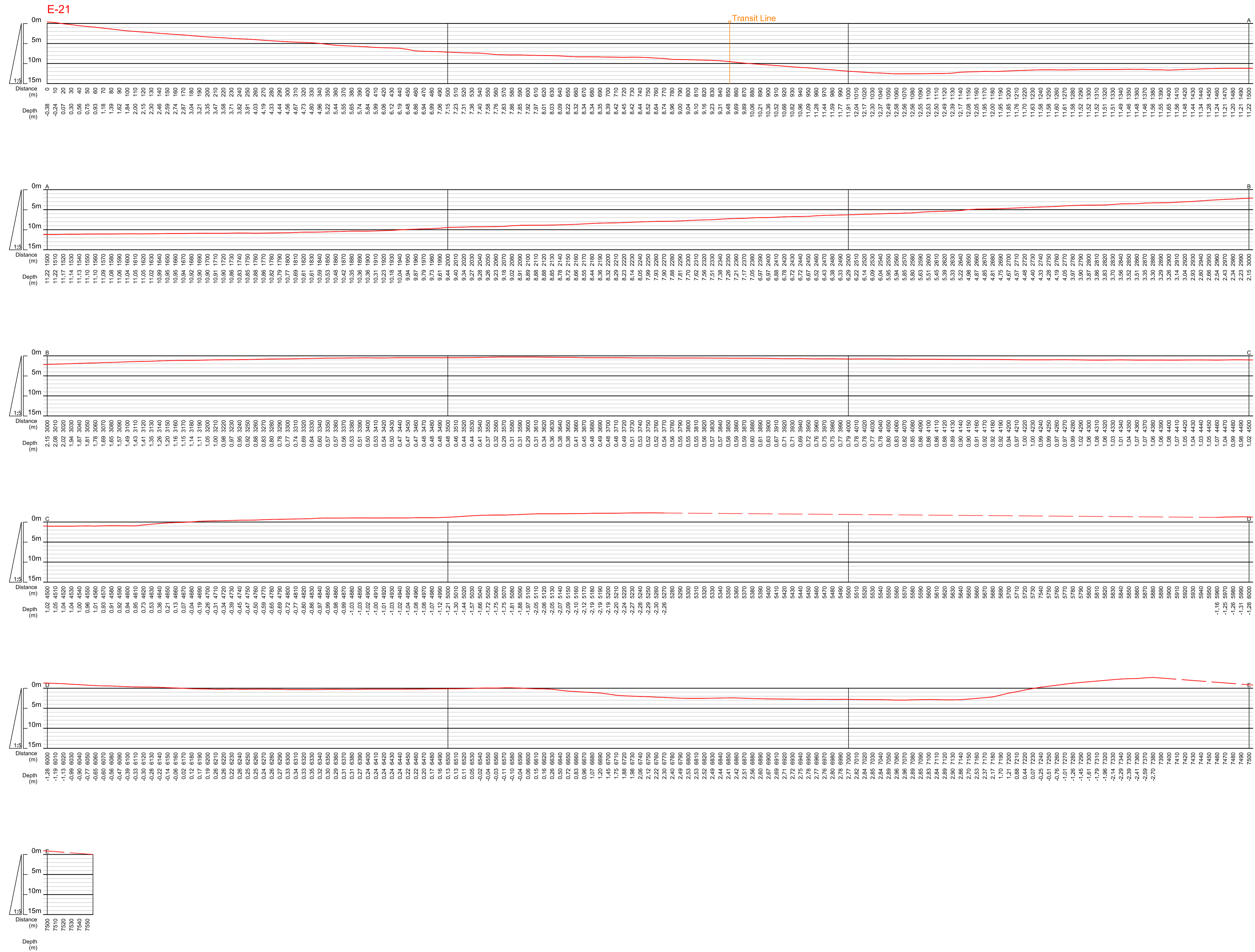
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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Drawing Title	Cross sections at the river mouth area of the Yangon River after rainy season

Projection	UTM Zone 47 N
Ellipsoid	WGS - 84
Datum Level	Chart Datum of Yangon Port
Revision	1.0.0

Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Date of Drawing	15 Jan 2016
Sheet No.	E-20
Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 820 855.24	214 764.05	0
Transit Line	1 821 345.28	215 481.38	850
Left Bank	1 825 199.90	220 947.00	7 557



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Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-21
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)

After Rainy Season