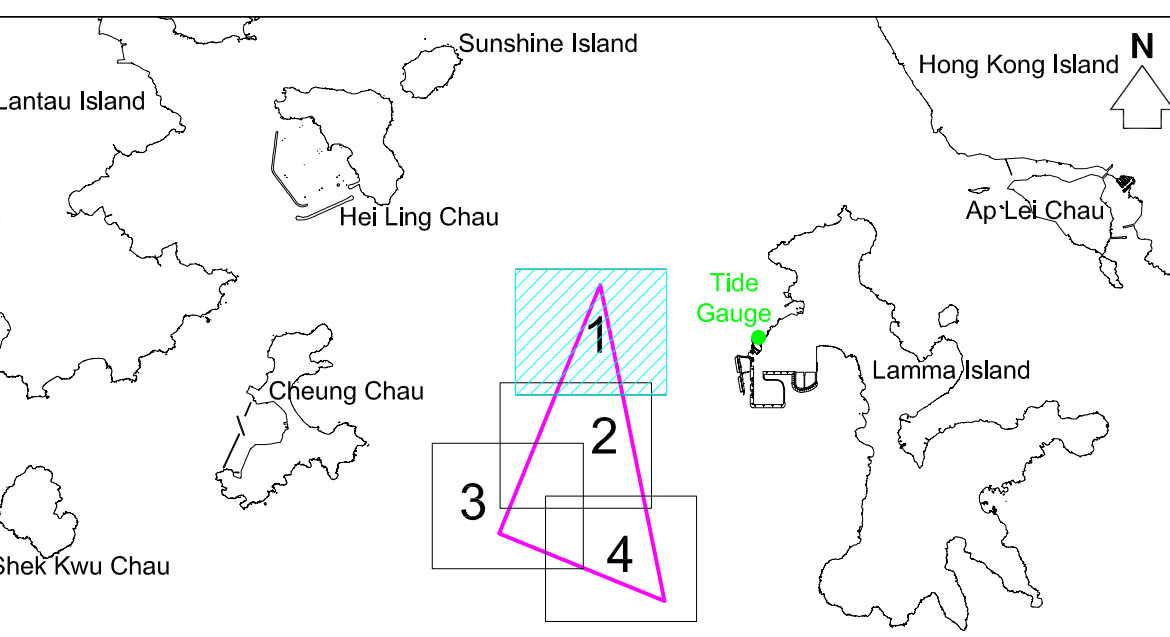


- Legend :
- Approximate position of wave recorder from this survey
  - Multibeam echo sounding track with fix positions
  - Survey boundary



Project :  
**CONTRACT NO. GE/2018/10**  
**TASK ORDER NUMBER GE/2018/10.04**  
**AGREEMENT NO. CE 2/2018(CE)**  
**PROPOSED CONTAMINATED SEDIMENT DISPOSAL FACILITY**  
**AT THE WEST OF LAMMA ISLAND - MARINE GEOPHYSICAL SURVEYS (GS)**

FIGURE NUMBER : 1.1

Drawing Title :

### ECHO SOUNDING TRACK PLOT

- Notes :
1. Survey Date : 18-21,24,27&28/02/2020 & 02-04/03/2020
  2. Survey Grid : Hong Kong 1980 Grid System
  3. Vertical Datum : Hong Kong Principal Datum
  4. Positioning : C-Nov CoGPS (Globally corrected GPS)
  5. Equipment : EGS Boomer System  
Klein 4000 Side Scan Sonar System  
Knudsen 320M Echo Sounder  
R2Sonic Sonic 2024 Multibeam Echo Sounding System
  6. Coastline taken from 1:1,000 Survey Sheets, Survey and Mapping Office, Lands Department

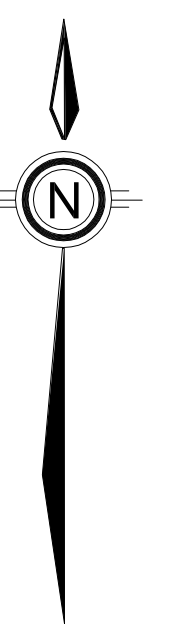
Revision No.	Date	Drawn by	Checked by	Approved by	Remarks
0	23/03/2020	Clarence Siu	Chris Lai	Margie Chen	Preliminary



Client : **Civil Engineering and Development Department**

Surveyor : **EGS (ASIA) LIMITED**  
 100 HONG KONG ROAD, 10/F REGISTRATION BUILDING  
 HONG KONG  
 Tel: 3422 8888  
 Fax: 3422 8889  
 Web: www.egs.com.hk








West Lamma Channel

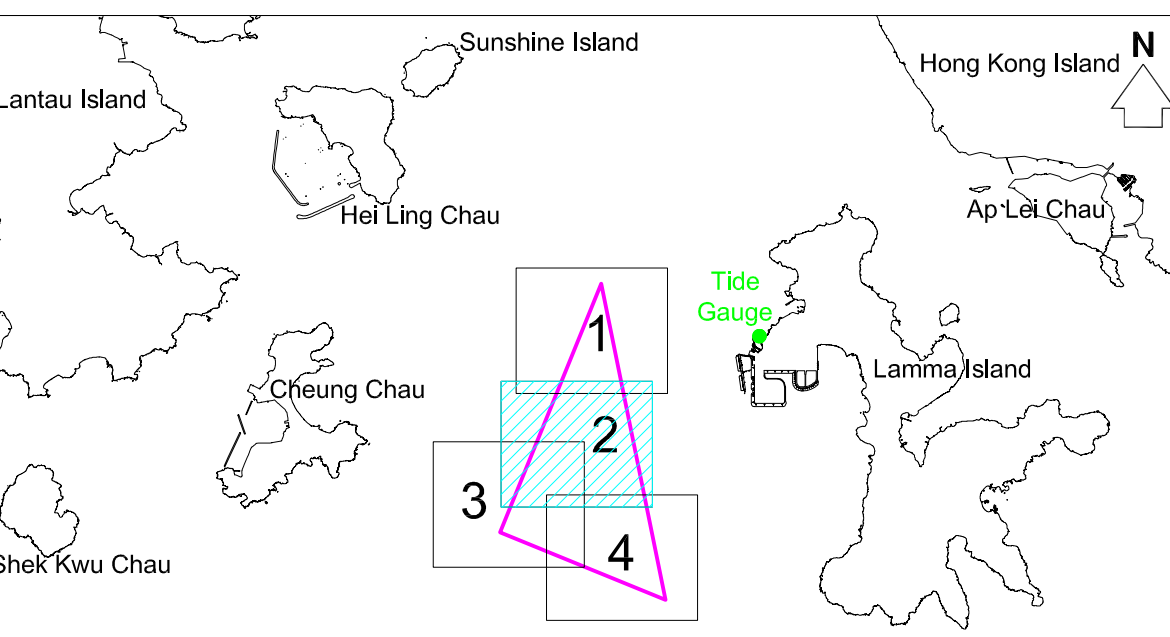
Chart Overlay

TC INT. 1.00M:2

PL\_P (fm HKE) Unspecified Pipe

Legend :

-  Approximate position of wave recorder from this survey
-  Multibeam echo sounding track with fix positions
-  Survey boundary



Location Plan

Project :  
 CONTRACT NO. GE/2018/10  
 TASK ORDER NUMBER GE/2018/10.04  
 AGREEMENT NO. GE/2018/10.04  
 PROPOSED CONTAMINATED SEDIMENT DISPOSAL FACILITY  
 AT THE WEST OF LAMMA ISLAND - MARINE GEOPHYSICAL SURVEYS (GS)


FIGURE NUMBER : 1.2

Drawing Title :  
**ECHO SOUNDING TRACK PLOT**

- Notes :
1. Survey Date : 18-21,24,27&28/02/2020 & 02-04/03/2020
  2. Survey Grid : Hong Kong 1980 Grid System
  3. Vertical Datum : Hong Kong Principal Datum
  4. Positioning : C-Nov CoGPS (Globally corrected GPS)
  5. Equipment : EGS Bomer System  
Klein 4000 Side Scan Sonar System  
Knudsen 320M Echo Sounder  
R2Sonic Sonic 2024 Multibeam Echo Sounding System
  6. Coastline taken from 1:1,000 Survey Sheets, Survey and Mapping Office, Lands Department

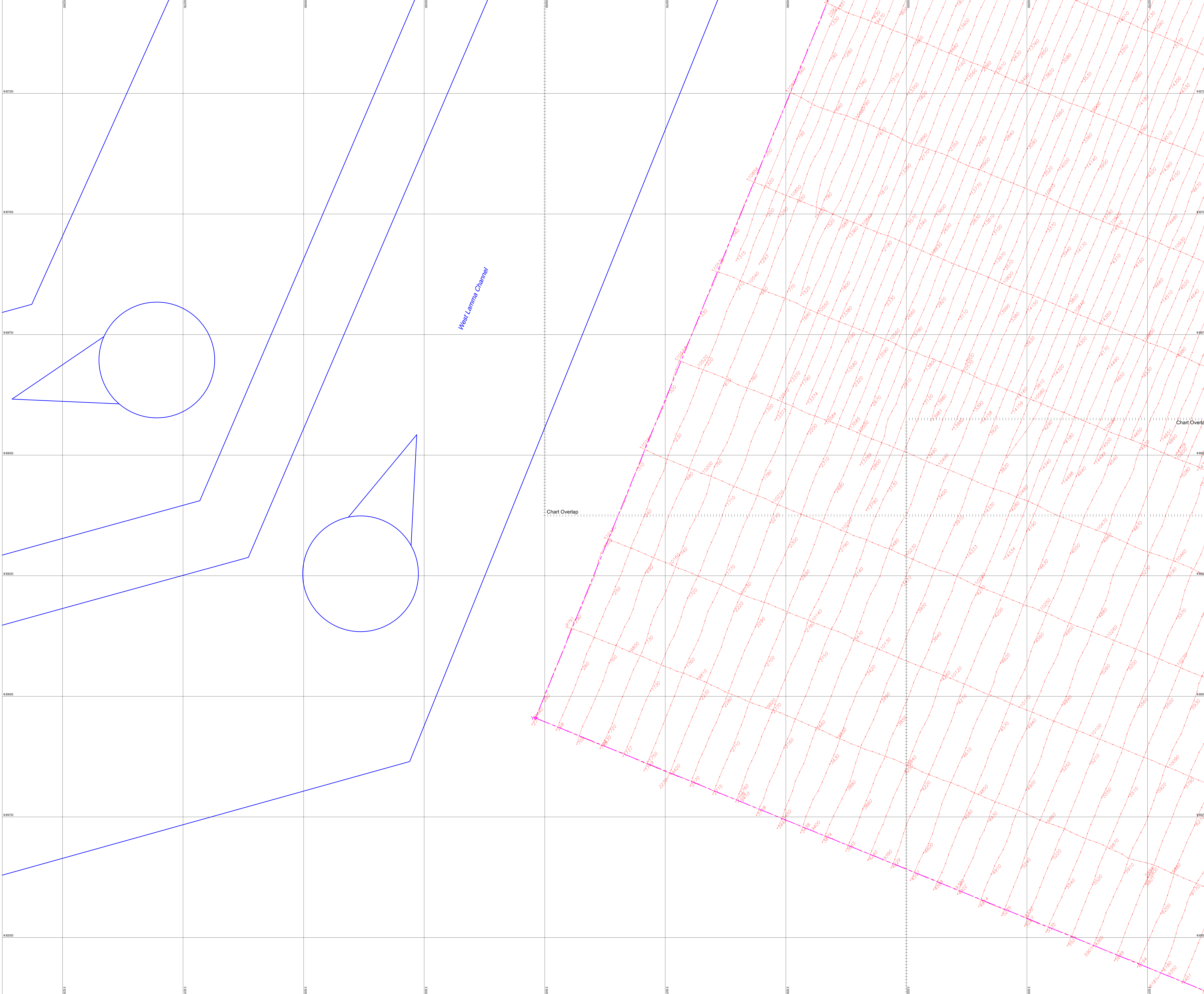
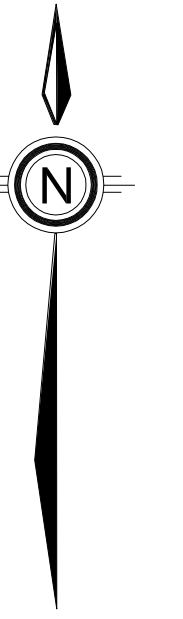
Revision No.	Date	Drawn by	Checked by	Approved by	Remarks
0	23/03/2020	Clarence Siu	Chris Lai	Margie Chen	Preliminary



Client :  Civil Engineering and Development Department

Surveyor :  EGS (ASIA) LIMITED  
 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000








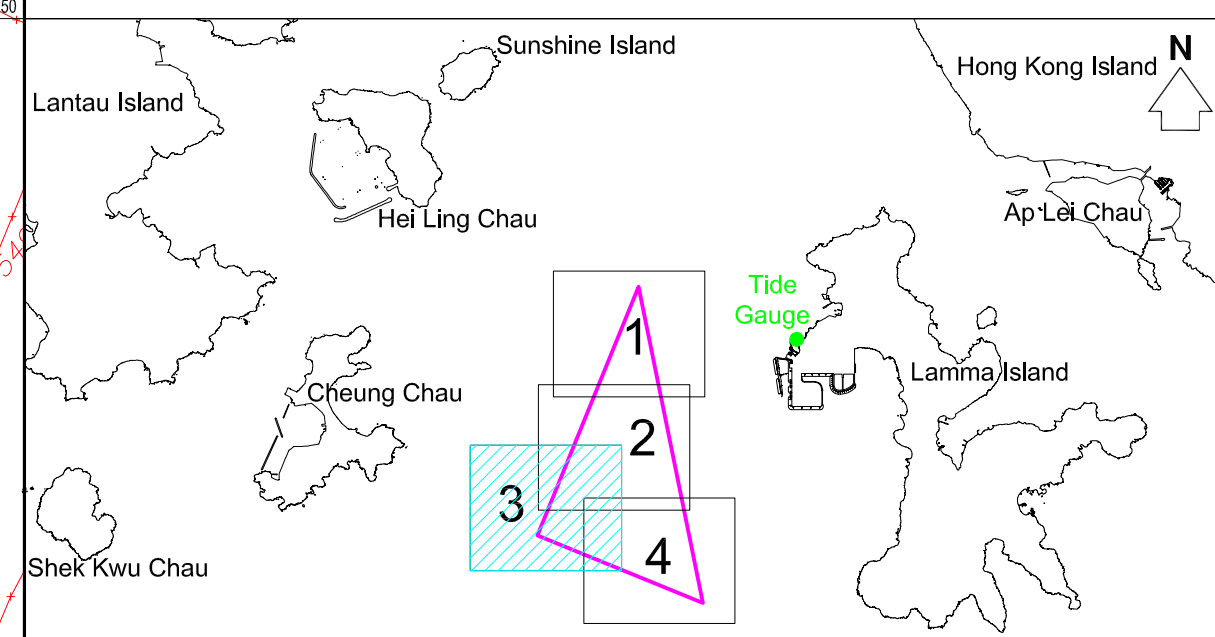
West Lamma Channel

Chart Overlap

Chart Overlap

Legend :

-  Approximate position of wave recorder from this survey
-  Multibeam echo sounding track with fix positions
-  Survey boundary



Location Plan

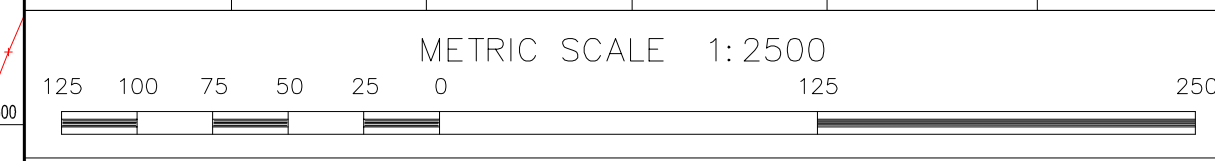
Project :  
**CONTRACT NO. GE/2018/10**  
**TASK ORDER NUMBER GE/2018/10.04**  
**AGREEMENT NO. CE 2/2018(CE)**  
**PROPOSED CONTAMINATED SEDIMENT DISPOSAL FACILITY**  
**AT THE WEST OF LAMMA ISLAND - MARINE GEOPHYSICAL SURVEYS (GS)**


FIGURE NUMBER : 1.3

### ECHO SOUNDING TRACK PLOT

- Notes :
1. Survey Date : 18-21,24,27&28/02/2020 & 02-04/03/2020
  2. Survey Grid : Hong Kong 1980 Grid System
  3. Vertical Datum : Hong Kong Principal Datum
  4. Positioning : C-Mav GcGPS (Diallyly corrected GPS)
  5. Equipment : EGS Boomer System  
Klein 4000 Side Scan Sonar System  
Kongsberg 320M Echo Sounder  
R2Sonic Sonic 2024 Multibeam Echo Sounding System
  6. Coastline taken from 1:1,000 Survey Sheets, Survey and Mapping Office, Lands Department

Revision No.	Date	Drawn by	Checked by	Approved by	Remarks
0	23/03/2020	Clarence Siu	Chris Lai	Margie Chen	Preliminary



Client :  **Civil Engineering and Development Department**

Surveyor :  **EGS (ASIA) LIMITED**  
 1101-1102, 11/F, 110, Nathan Road, Kowloon, Hong Kong  
 Tel: (852) 2500-8888  
 Fax: (852) 2500-8889  
 Email: info@egs.com.hk  
 Website: www.egs.com.hk



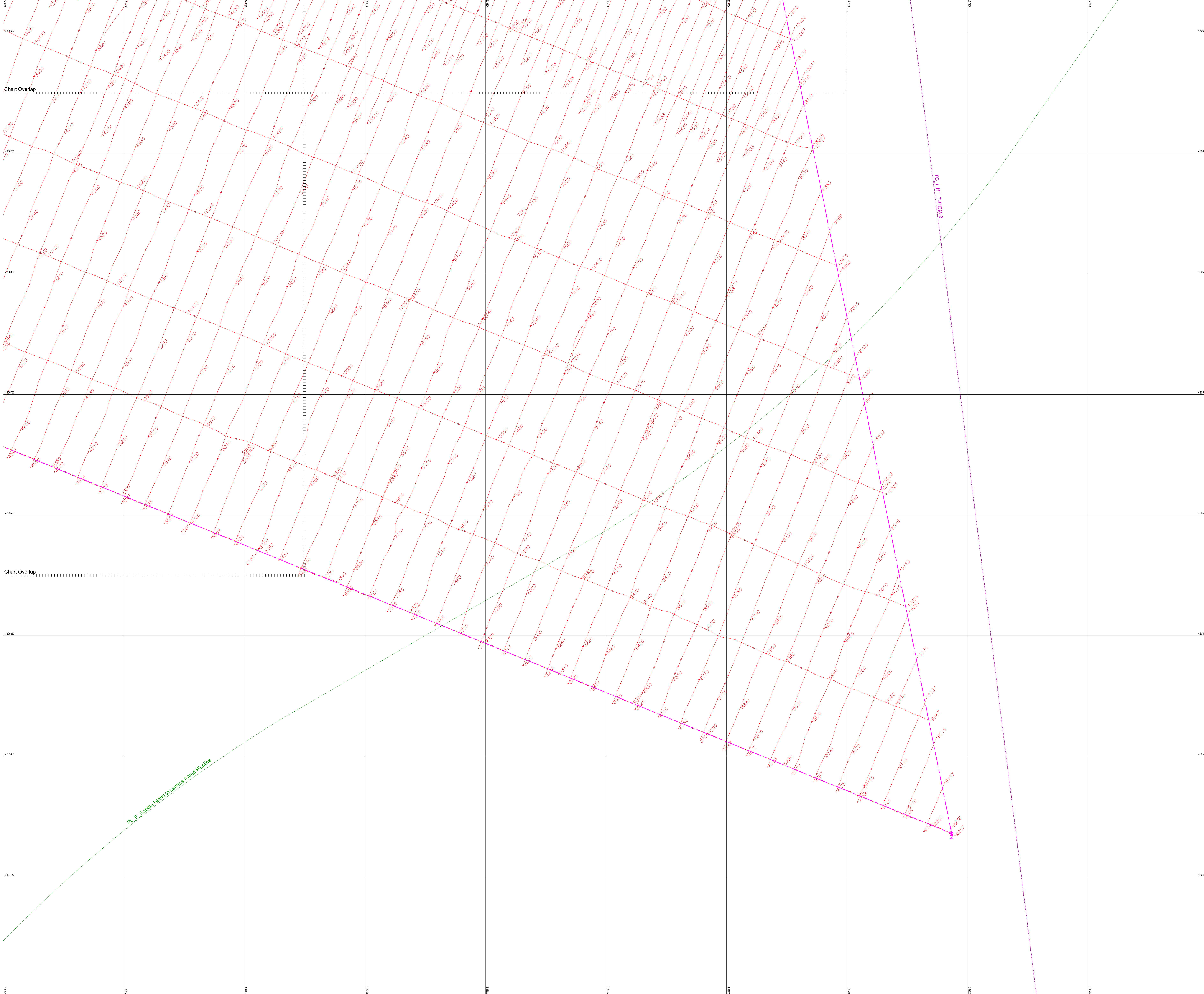
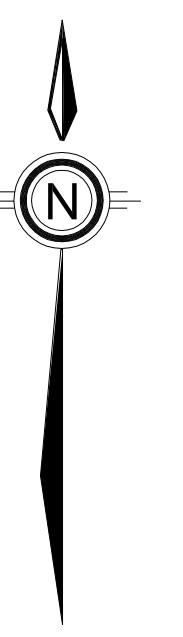
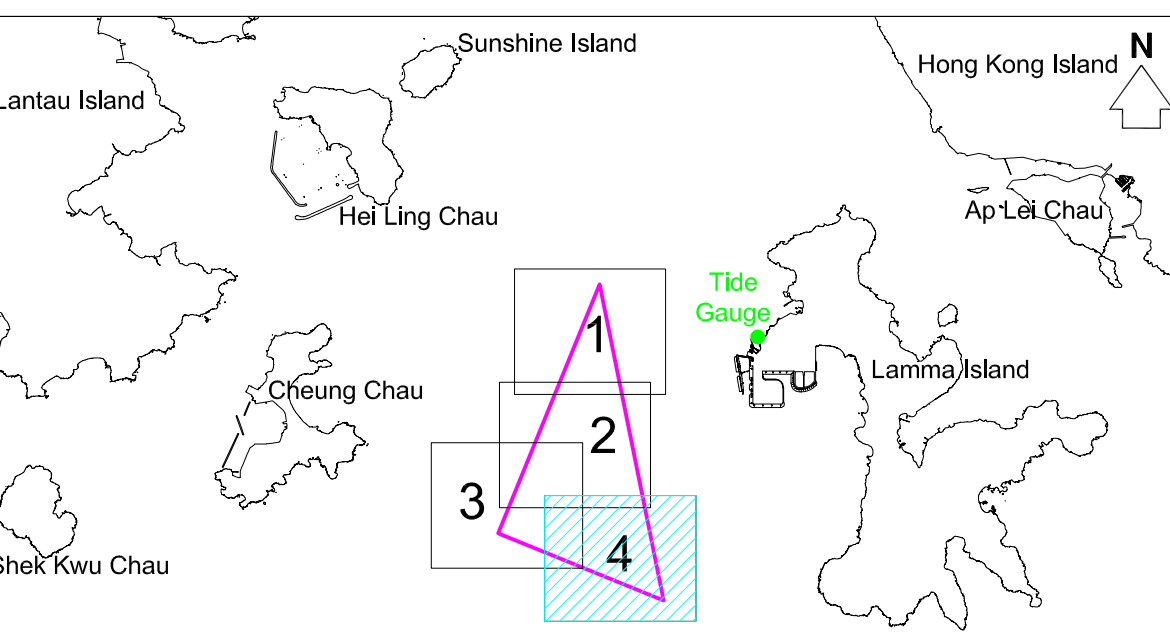


Chart Overlap

Chart Overlap

- Legend :
- Approximate position of wave recorder from this survey
  - Multibeam echo sounding track with fix positions
  - Survey boundary



Location Plan

Project :  
**CONTRACT NO. GE/2018/10**  
**TASK ORDER NUMBER GE/2018/10.04**  
**AGREEMENT NO. GE 2/2018(CE)**  
**PROPOSED CONTAMINATED SEDIMENT DISPOSAL FACILITY**  
**AT THE WEST OF LAMMA ISLAND - MARINE GEOPHYSICAL SURVEYS (GS)**

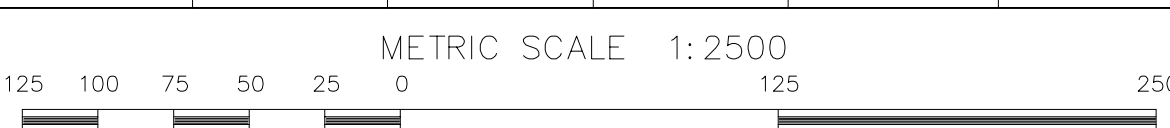
FIGURE NUMBER : 1.4

Drawing Title :

### ECHO SOUNDING TRACK PLOT

- Notes :
1. Survey Date : 18-21,24,27&28/02/2020 & 02-04/03/2020
  2. Survey Grid : Hong Kong 1980 Grid System
  3. Vertical Datum : Hong Kong Principal Datum
  4. Positioning : C-Nav CoGPS (Globally corrected GPS)
  5. Equipment :
    - EGS Bomer System
    - Klein 4000 Side Scan Sonar System
    - Knudsen 320M Echo Sounder
    - R2Sonic Sonic 2024 Multibeam Echo Sounding System
  6. Coastline taken from 1:1,000 Survey Sheets, Survey and Mapping Office, Lands Department

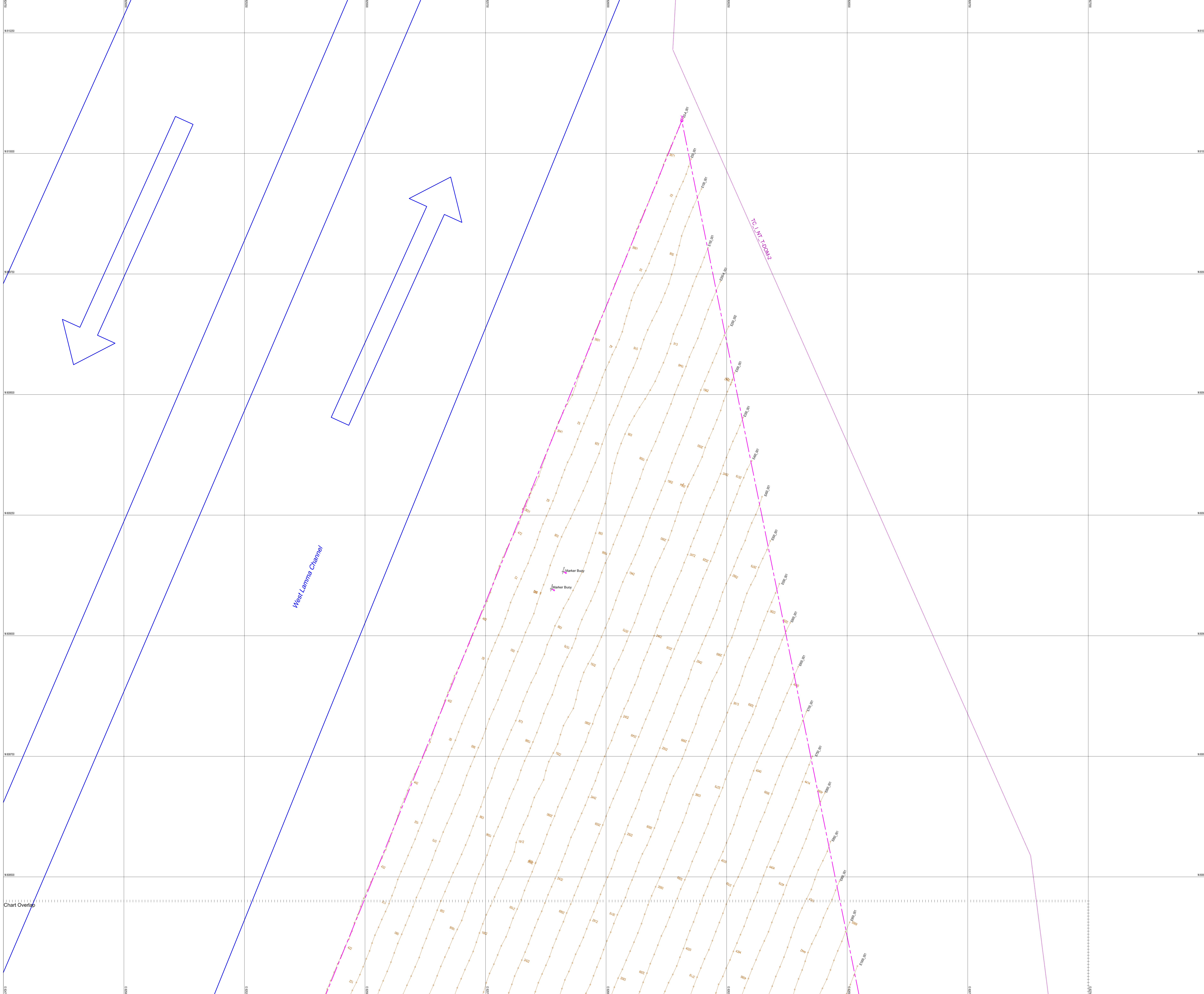
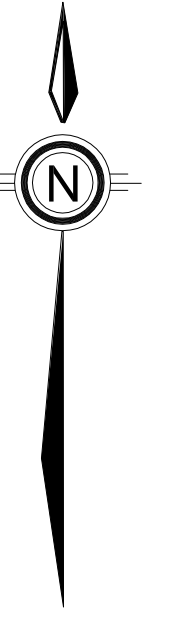
Revision No.	Date	Drawn by	Checked by	Approved by	Remarks
0	23/03/2020	Clarence Siu	Chris Lai	Margie Chen	Preliminary



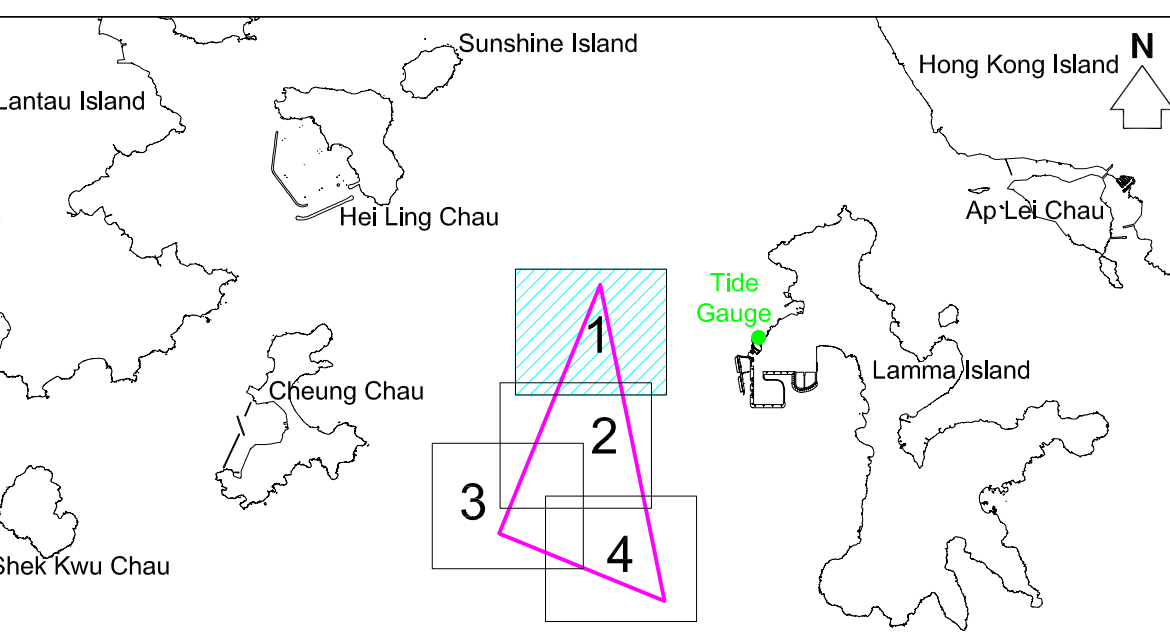
Client : Civil Engineering and Development Department

Surveyor : EGS (ASIALIMITED)  
 100 HUI HOI STREET, HONG KONG  
 HONG KONG  
 Tel: (852) 2500-1111  
 Fax: (852) 2500-1112  
 Web: www.egs.com.hk





- Legend :
- Approximate position of wave recorder from this survey
  - Side scan sonar track with fix positions and line number
  - Survey boundary



Location Plan

Project :  
CONTRACT NO. GE/2018/10  
TASK ORDER NUMBER GE/2018/10.04  
AGREEMENT NO. CE 2/2018(CE)  
PROPOSED CONTAMINATED SEDIMENT DISPOSAL FACILITY  
AT THE WEST OF LAMMA ISLAND - MARINE GEOPHYSICAL SURVEYS (GS)

FIGURE NUMBER : 3.1

Drawing Title :  
**SIDE SCAN SONAR TRACK PLOT**

- Notes :
1. Survey Date : 18-21,24,27&28/02/2020 & 02-04/03/2020
  2. Survey Grid : Hong Kong 1980 Grid System
  3. Vertical Datum : Hong Kong Principal Datum
  4. Positioning : C-Nov CoGPS (Globally corrected GPS)
  5. Equipment : EGS Boomer System  
Klein 4000 Side Scan Sonar System  
Knudsen 320M Echo Sounder  
R2Sonic Sonic 2024 Multibeam Echo Sounding System
  6. Coastline taken from 1:1,000 Survey Sheets, Survey and Mapping Office, Lands Department

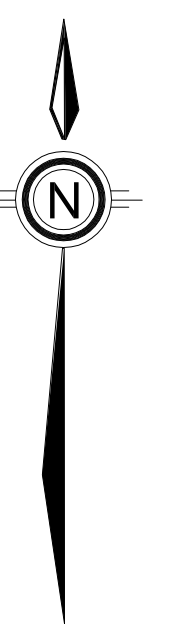
Revision No.	Date	Drawn by	Checked by	Approved by	Remarks
0	23/03/2020	Clarence Siu	Kenny Zhang	Margie Chen	Preliminary



Client :  
 Civil Engineering and Development Department

Surveyor :  
 EGS (ASIA) LIMITED  
100 HOOBURN ROAD, HONG KONG  
10/F HOOBURN INDUSTRIAL BUILDING  
100 HOOBURN ROAD, HONG KONG  
TEL: 3422 3788/3422 3789  
FAX: 3422 3788/3422 3789  
WWW.EGSONLINE.COM





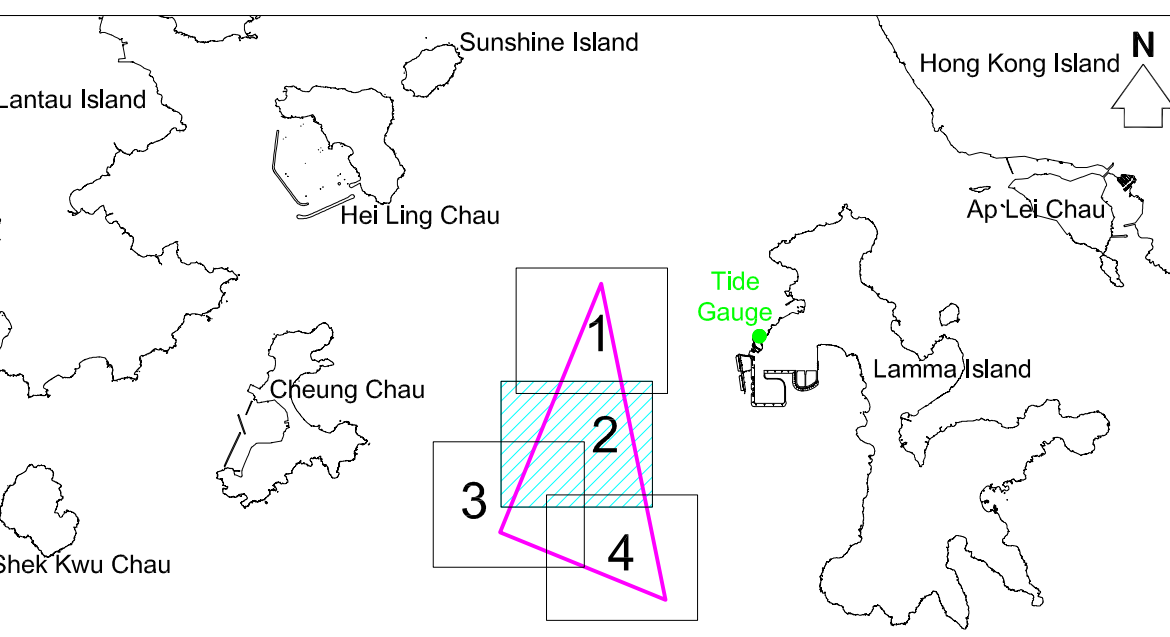
West Lamma Channel

Chart Overlay

Chart Overlay

Legend :

- Approximate position of wave recorder from this survey
- Side scan sonar track with fix positions and line number
- Survey boundary



Location Plan

Project :  
 CONTRACT NO. GE/2018/10  
 TASK ORDER NUMBER GE/2018/10.04  
 AGREEMENT NO. CE 2/2018(GE)  
 PROPOSED CONTAMINATED SEDIMENT DISPOSAL FACILITY  
 AT THE WEST OF LAMMA ISLAND - MARINE GEOPHYSICAL SURVEYS (GS)

FIGURE NUMBER : 3.2

Drawing Title :

### SIDE SCAN SONAR TRACK PLOT

- Notes :
1. Survey Date : 18-21,24,27&28/02/2020 & 02-04/03/2020
  2. Survey Grid : Hong Kong 1980 Grid System
  3. Vertical Datum : Hong Kong Principal Datum
  4. Positioning : C-Nov CoGPS (Globally connected GPS)
  5. Equipment : EGS Boomer System  
Klein 4000 Side Scan Sonar System  
Kruusden 320M Echo Sounder  
R2Sonic Sonic 2024 Multibeam Echo Sounding System
  6. Coastline taken from 1:1,000 Survey Sheets, Survey and Mapping Office, Lands Department

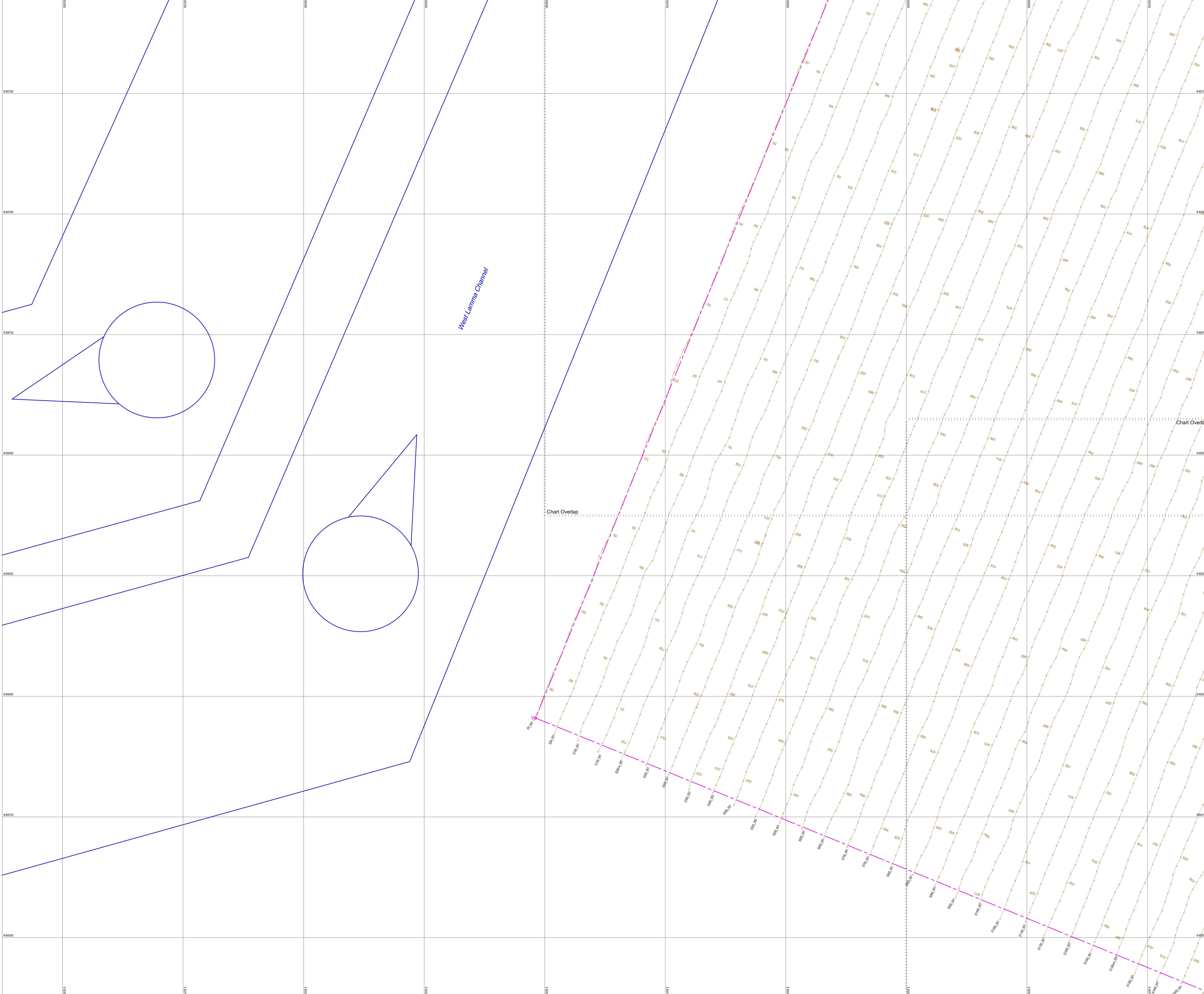
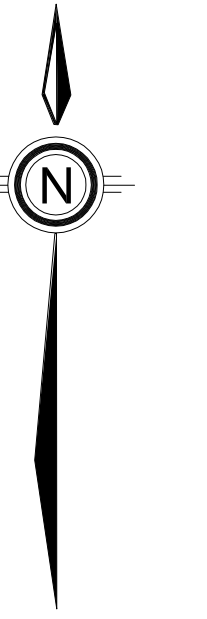
Revision No.	Date	Drawn by	Checked by	Approved by	Remarks
0	23/03/2020	Clarence Siu	Kenny Zhong	Margie Chen	Preliminary



Client : Civil Engineering and Development Department

Surveyor : EGS (ASAL) LIMITED  
 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000






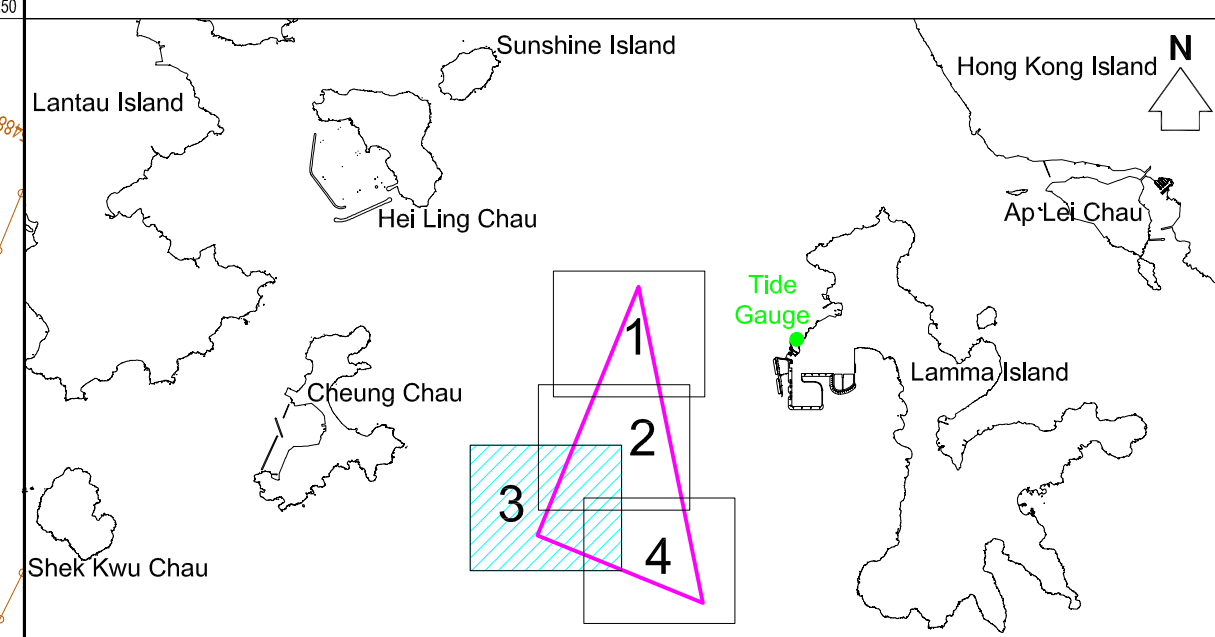


West Lamma Channel

Chart Overlap

Chart Overlap

- Legend :
-  Approximate position of wave recorder from this survey
  -  Side scan sonar track with fix positions and line number
  -  Survey boundary



Location Plan

Project :

CONTRACT NO. GE/2018/10  
 TASK ORDER NUMBER GE/2018/10.04  
 AGREEMENT NO. CE 2/2018(C/E)  
 PROPOSED CONTAMINATED SEDIMENT DISPOSAL FACILITY  
 AT THE WEST OF LAMMA ISLAND - MARINE GEOPHYSICAL SURVEYS (GS)

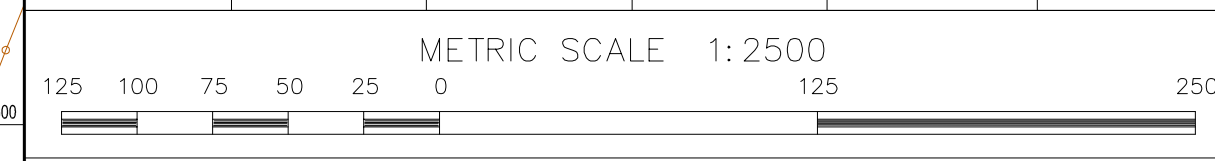
FIGURE NUMBER : 3.3


Drawing Title :

### SIDE SCAN SONAR TRACK PLOT

- Notes :
1. Survey Date : 18-21,24,27&28/02/2020 & 02-04/03/2020
  2. Survey Grid : Hong Kong 1980 Grid System
  3. Vertical Datum : Hong Kong Principal Datum
  4. Positioning : C-May GeGPS (Dynamically corrected GPS)
  5. Equipment : EGS Boomer System  
Klein 4000 Side Scan Sonar System  
Knudsen 320M Echo Sounder  
R2Sonic Sonic 2024 Multibeam Echo Sounding System
  6. Coastline taken from 1:1,000 Survey Sheets, Survey and Mapping Office, Lands Department

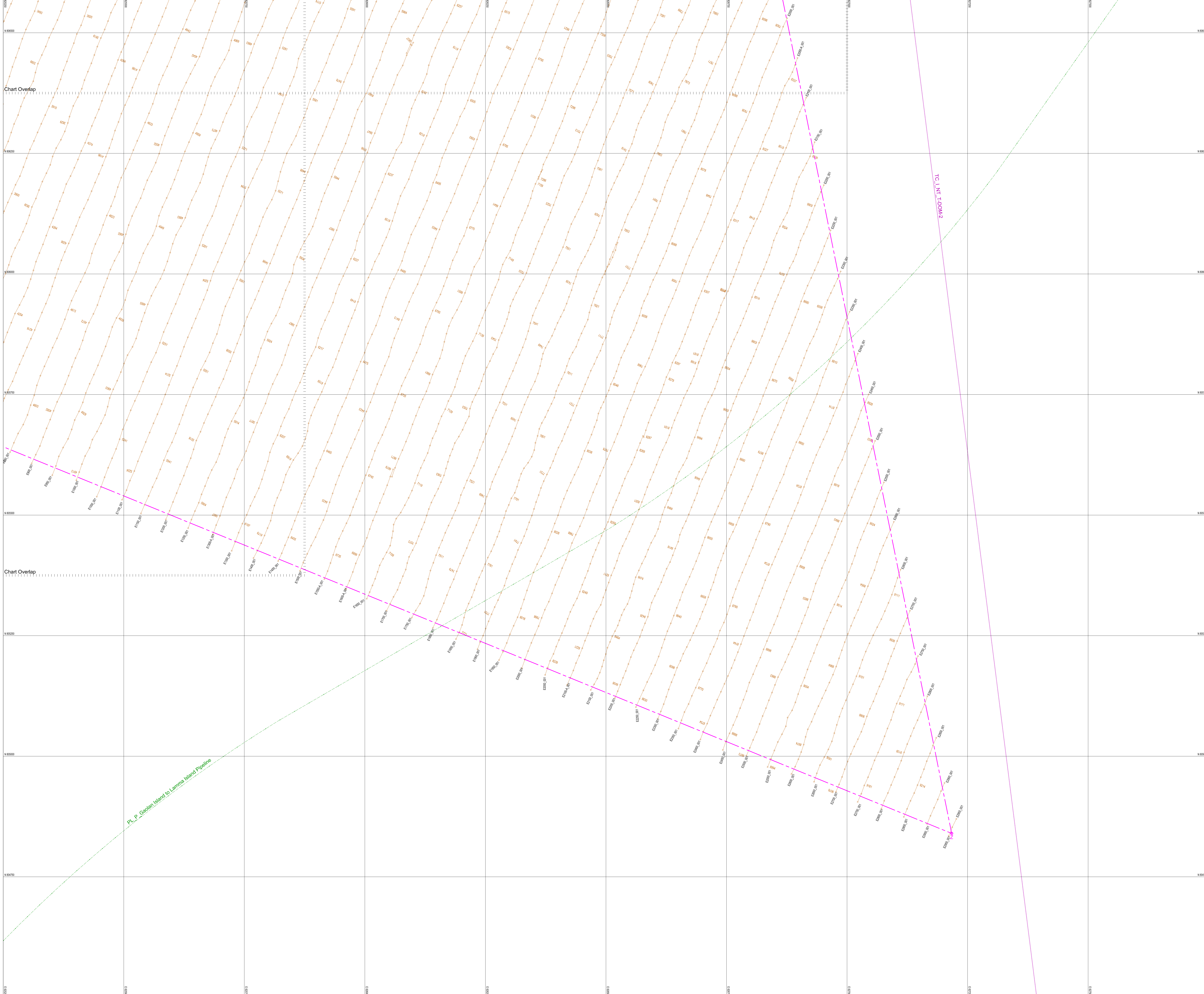
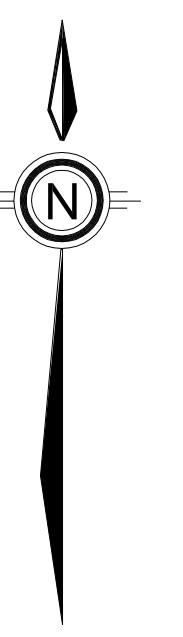
Revision No.	Date	Drawn by	Checked by	Approved by	Remarks
0	23/03/2020	Clarence Siu	Kenny Zhong	Margie Chen	Preliminary






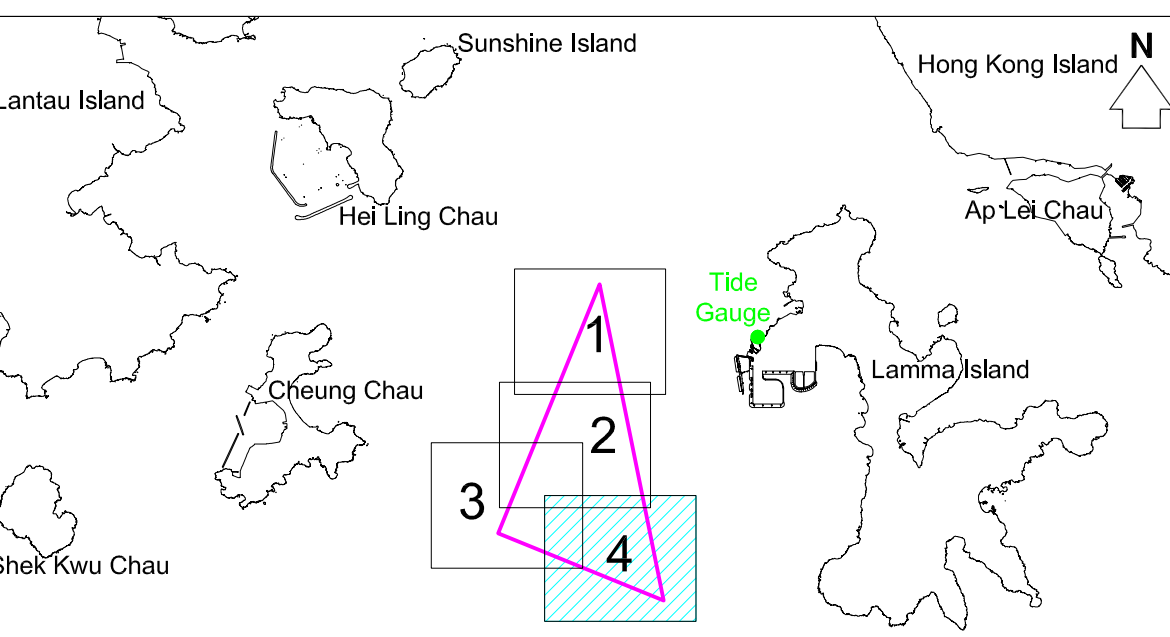
Client :  Civil Engineering and Development Department

Surveyor :  EGS (ARAU) LIMITED  
 110-112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000





- Legend :
-  Approximate position of wave recorder from this survey
  -  Side scan sonar track with fix positions and line number
  -  Survey boundary



Location Plan

Project :  
 CONTRACT NO. GE/2018/10  
 TASK ORDER NUMBER GE/2018/10.04  
 AGREEMENT NO. CE 2/2018(CE)  
 PROPOSED CONTAMINATED SEDIMENT DISPOSAL FACILITY  
 AT THE WEST OF LAMMA ISLAND - MARINE GEOPHYSICAL SURVEYS (GS)

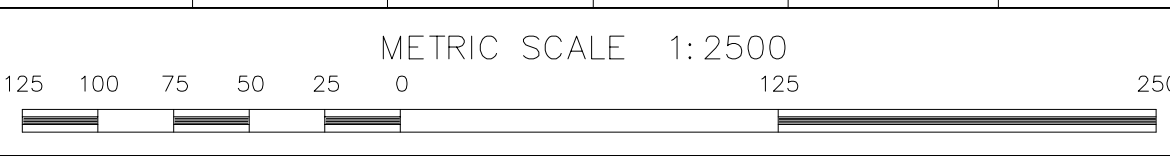
FIGURE NUMBER : 3.4


Drawing Title :

### SIDE SCAN SONAR TRACK PLOT

- Notes :
1. Survey Date : 18-21,24,27&28/02/2020 & 02-04/03/2020
  2. Survey Grid : Hong Kong 1980 Grid System
  3. Vertical Datum : Hong Kong Principal Datum
  4. Positioning : C-Nav CoGPS (Globally corrected GPS)
  5. Equipment :
    - EDS Boomer System
    - Klein 4000 Side Scan Sonar System
    - Knudsen 320M Echo Sounder
    - R2Sonic Sonic 2024 Multibeam Echo Sounding System
  6. Coastline taken from 1:1,000 Survey Sheets, Survey and Mapping Office, Lands Department

Revision No.	Date	Drawn by	Checked by	Approved by	Remarks
0	23/03/2020	Clarence Siu	Kenny Zhang	Margie Chen	Preliminary



Client :  Civil Engineering and Development Department

Surveyor :  EGS (ASIA) LIMITED  
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