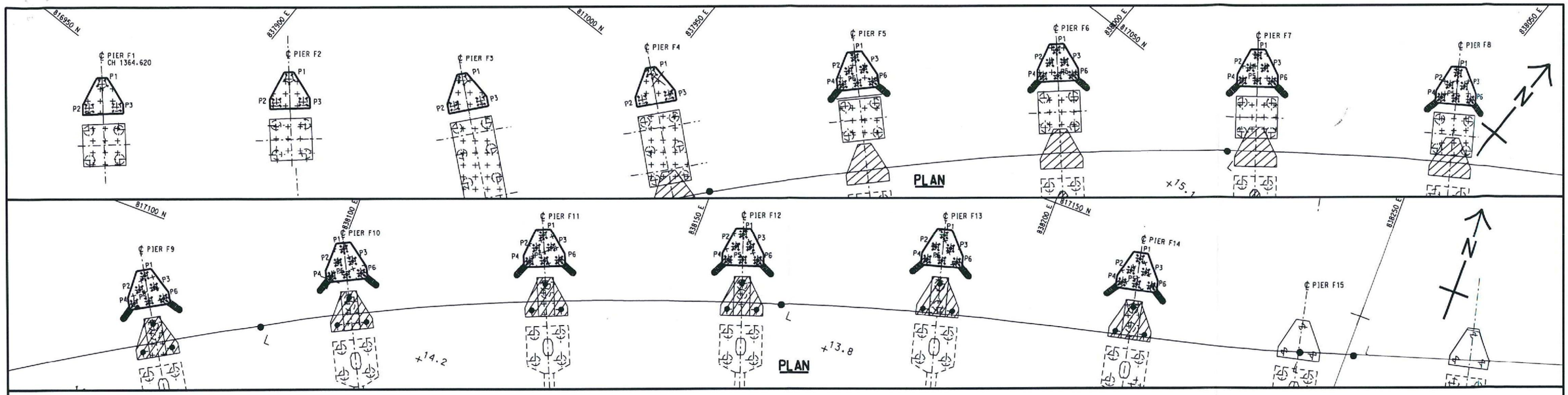
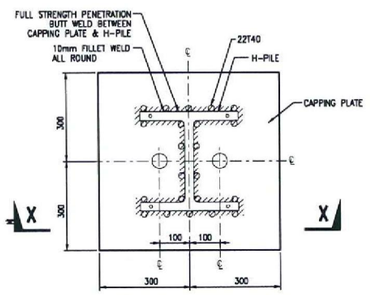
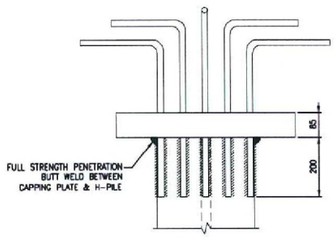
ANNEX K
IEC Protection Structures

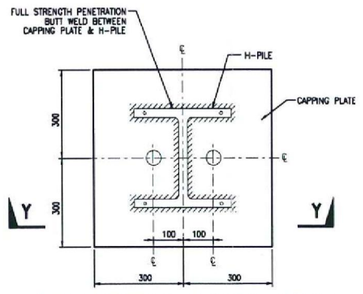




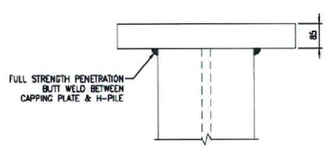
PLAN SECTION LOOKING DOWN ABOVE CAPPING PLATE (FOR TYPE B1 & B2)



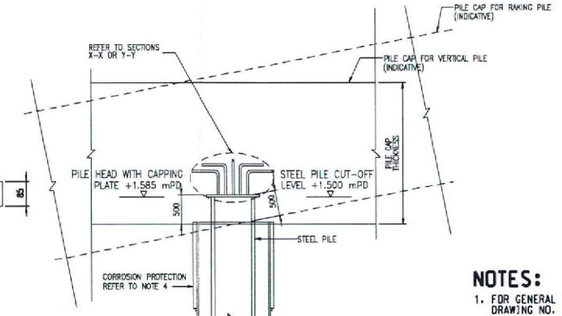
SECTION X–X



PLAN SECTION LOOKING DOWN ABOVE CAPPING PLATE (FOR TYPE A)



SECTION Y–Y

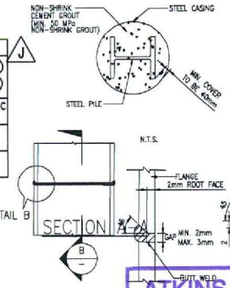


NOTES:

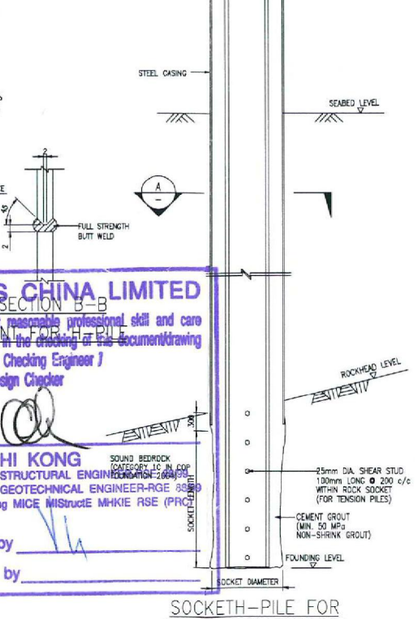
1. FOR GENERAL NOTES REFER TO DRAWING NO. 610/AD/M02/001
2. ALL LEVELS GIVEN ARE IN METRES ABOVE PRINCIPAL DATUM.
3. THE COORDINATES FOR RAKING PILES ARE GIVEN AT THE BOTTOM OF PILE CAP.
4. THE CORROSION PROTECTION OF STEEL CASING REFER TO CONFORMING DRAWING NO. 6009563/IEC/3382C
5. THE TOLERANCE OF PILES REFER TO SECTION 8 OF GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION.

	TYPE A	TYPE B1 & B2
STEEL CASING	ϕ914x21 THK. (GRADE S275JO OR S275JR CLASS 1)	ϕ813x19 THK. (GRADE S275JO OR S275JR CLASS 1)
STEEL PILE	356x406x467 Kg/m UC (S355JO CLASS 1)	356x406x340 Kg/m UC (S355JO CLASS 1)
SOCKET LENGTH (mm)	9000	7000
SOCKET DIAMETER (mm)	705	705

J



TYPICAL DETAIL OF BUTT WELDED JOINT FOR H-PILE



SOCKETH–PILE FOR DOLPHIN STRUCTURE
N.T.S.

ATKINS CHINA LIMITED
We certify that reasonable professional skill and care has been used in the checking of this document/drawing by Independent Checking Engineer / Independent Design Checker

CHAN CHI KONG
REGISTERED STRUCTURAL ENGINEER/RSE
REGISTERED GEOTECHNICAL ENGINEER-RGE 8859
MSc MBA CEng MICE MIStructE MHKIE RSE (PRC)

Checked by _____
Reviewed by _____

PILING SCHEDULE

LOCATION	PILE NO.	TYPE	COORDINATES OF PILE CENTRE AT CAP BOTTOM EASTING (m)	NORTHING (m)	CUT OFF LEVEL (mPD)	TENTATIVE FOUNDING LEVEL (mPD) (FOR INFORMATION ONLY)
PIER F1	P1	A	837884.155	816946.504	1.5	-31.68
	P2		837884.929	816942.435		-30.18
	P3		837888.050	816945.094		-30.18
PIER F2	P1	A	837905.770	816964.925		-31.68
	P2		837906.545	816960.855		-30.18
	P3		837909.666	816963.515		-30.18
PIER F3	P1	A	837926.991	816981.004		-54.78
	P2		837928.333	816977.102		-52.20
	P3		837931.057	816980.210		-52.20
PIER F4	P1	A	837948.976	816999.723		-54.70
	P2		837950.306	816995.799		-52.20
	P3		837953.029	816998.864		-52.20
PIER F5	P1	B1	837971.662	817021.079		-58.15
	P2		837972.235	817018.902		-58.15
	P3		837973.834	817020.485		-58.15
	P4		837972.808	817016.725		-58.15
	P5		837974.407	817018.308		-58.15
	P6		837976.005	817019.891		-58.15
PIER F6	P1	B1	837995.135	817041.332		-58.15
	P2		837995.568	817039.122		-58.15
	P3		837997.264	817040.600		-58.15
	P4		837996.000	817036.913		-58.15
	P5		837997.697	817038.391		-58.15
	P6		837999.393	817039.869		-58.15
PIER F7	P1	B1	838019.888	817060.044		-53.48
	P2		838020.174	817057.811		-53.48
	P3		838021.965	817059.174		-53.48
	P4		838020.460	817055.578		-53.48
	P5		838022.250	817056.941		-53.48
	P6		838024.041	817058.304		-53.48
PIER F8	P1	B1	838045.586	817077.154		-53.48
	P2		838045.728	817074.908		-53.48
	P3		838047.602	817076.153		-53.48
	P4		838045.871	817072.661		-53.48
	P5		838047.745	817073.907		-53.48
	P6		838049.618	817075.152		-53.48

PILING SCHEDULE

LOCATION	PILE NO.	TYPE	COORDINATES OF PILE CENTRE AT CAP BOTTOM EASTING (m)	NORTHING (m)	CUT OFF LEVEL (mPD)	TENTATIVE FOUNDING LEVEL (mPD) (FOR INFORMATION ONLY)
PIER F9	P1	B2	838072.621	817091.935	1.5	-54.55
	P2		838072.622	817089.684		-54.55
	P3		838074.530	817090.809		-54.55
	P4		838072.622	817087.433		-54.55
	P5		838074.571	817088.557		-54.55
	P6		838076.519	817089.682		-54.55
PIER F10	P1	B2	838099.786	817106.377		-54.55
	P2		838093.640	817104.131		-54.55
	P3		838101.658	817105.126		-54.55
	P4		838099.493	817101.884		-54.55
	P5		838101.511	817102.879		-54.55
	P6		838103.529	817103.875		-54.55
PIER F11	P1	B2	838128.369	817117.564		-52.85
	P2		838128.080	817115.351		-52.85
	P3		838130.157	817116.796		-52.85
	P4		838127.790	817113.099		-52.85
	P5		838129.867	817113.963		-52.85
	P6		838131.945	817114.828		-52.85
PIER F12	P1	B2	838157.036	817128.302		-52.85
	P2		838156.605	817126.093		-52.85
	P3		838158.733	817126.823		-52.85
	P4		838156.174	817123.883		-52.85
	P5		838158.302	817124.614		-52.85
	P6		838160.430	817125.344		-52.85
PIER F13	P1	B2	838185.867	817139.025		-57.15
	P2		838185.292	817136.848		-57.15
	P3		838187.464	817137.437		-57.15
	P4		838184.717	817134.671		-57.15
	P5		838186.888	817135.261		-57.15
	P6		838189.060	817135.850		-57.15
PIER F14	P1	B2	838215.253	817146.100		-57.15
	P2		838214.579	817143.952		-57.15
	P3		838216.775	817144.441		-57.15
	P4		838211.905	817141.804		-57.15
	P5		838216.101	817142.293		-57.15
	P6		838218.297	817142.782		-57.15

PILE LOADING SCHEDULE

DOLPHIN	PILE NO.	PILE HEAD LOADING (kN)	
TYPE A	1, 2 & 3	507	/ NO TENSION (PERMANENT)
TYPE B1	1	32	/ NO TENSION (TRANSIENT)
		5605	/ NO TENSION (PERMANENT)
	2 & 3	97	/ NO TENSION (TRANSIENT)
		3474	/ -1099 (PERMANENT)
	5	160	/ NO TENSION (TRANSIENT)
		NO COMPRESSION	/ -6373 (PERMANENT)
	4 & 6	3810	/ -270 (TRANSIENT)
TYPE B2	1	32	/ NO TENSION (TRANSIENT)
		5367	/ NO TENSION (PERMANENT)
	2 & 3	97	/ NO TENSION (TRANSIENT)
		1643	/ NO TENSION (PERMANENT)
	5	160	/ NO TENSION (TRANSIENT)
		NO COMPRESSION	/ -5647 (PERMANENT)
	4 & 6	3311	/ NO TENSION (TRANSIENT)

NOTES: "+" DENOTES COMPRESSION
"-" DENOTES TENSION

CONTRACTOR
俊和-中國中鐵-中鐵大橋局聯營
CHUN WO - CRGL - MBEC JOINT VENTURE

DESIGN CONSULTANT
MEINHARDT
Meinhardt Infrastructure and Environment Limited
邁進基建環保工程顧問有限公司

CONTRACT
CONTRACT NO. HK/2009/19
CENTRAL – WAN CHAI BYPASS TUNNEL
(NORTH POINT SECTION) AND
ISLAND EASTERN CORRIDOR LINK

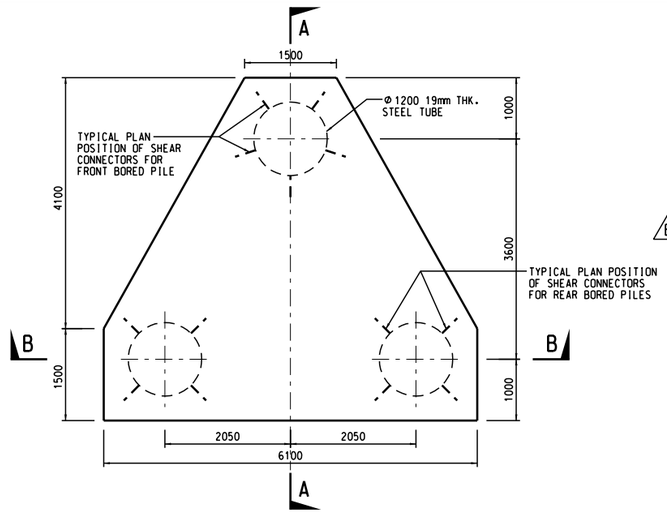
DRG. TITLE
DOLPHIN STRUCTURE –
ALTERNATIVE DESIGN FOR
SOCKET H-PILE
ARRANGEMENT & DETAILS

DRG. NO. 610/AD/M02/002 REV. J

DRAWN	HENRY KO	APPROVED	KW LEE
DESIGNED	SAM LEE	CAD REF:	610_AD_M02_002J.dgn
CHECKED	T. TAN	STATUS	FOR APPROVAL
SCALE	1 : 1000 (A1)		

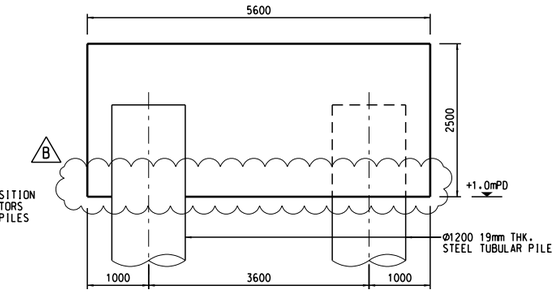
Plot File by : karvellai 7/10/2012

K:\91202 Eastern Corridor Link\Drawings (Alternative Design)\610_AD_M02_002J.dgn



TYPE A PLAN

SCALE A1 1 : 50
A3 1 : 100



SECTION A - A

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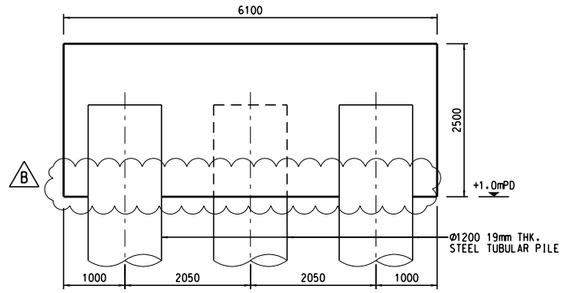
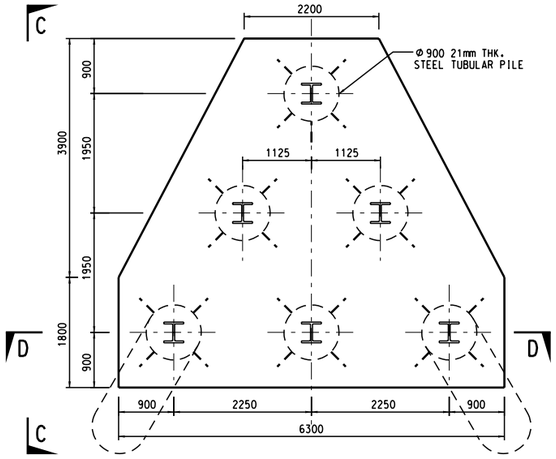


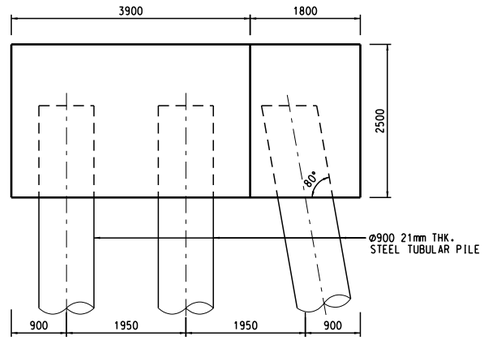
SECTION B - B

SCALE A1 1 : 50
A3 1 : 100



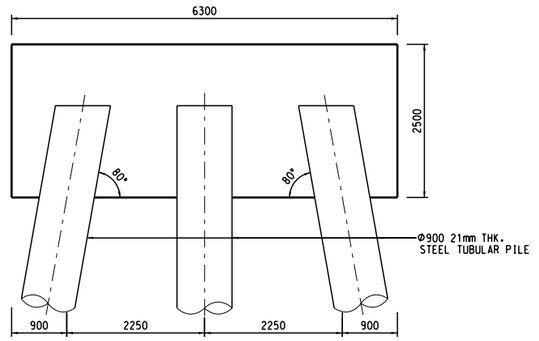
TYPE B PLAN

SCALE A1 1 : 50
A3 1 : 100



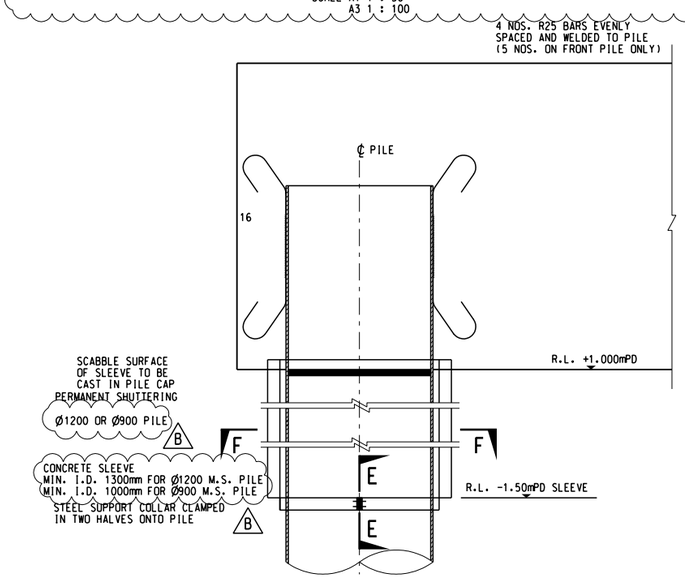
SECTION C - C

SCALE A1 1 : 50
A3 1 : 100



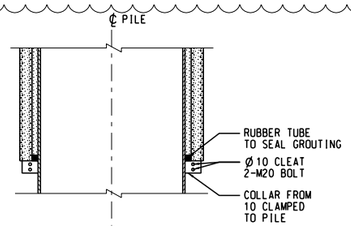
SECTION D - D

SCALE A1 1 : 50
A3 1 : 100



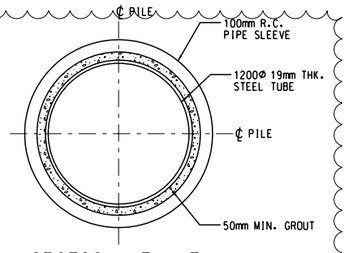
TYPICAL PILE HEAD DETAIL

(Ø900 STEEL TUBULAR PILE IS SIMILAR)
SCALE A1 1 : 25
A3 1 : 50



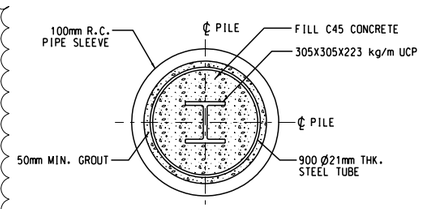
SECTION E - E

SCALE A1 1 : 25
A3 1 : 50



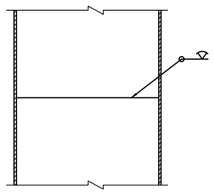
SECTION F - F

(TYPE A)
SCALE A1 1 : 25
A3 1 : 50



SECTION F - F

(TYPE B)
SCALE A1 1 : 25
A3 1 : 50



PILE TUBE JOINTS FOR 1200mm DIA. TUBE

(Ø900 STEEL TUBULAR PILE IS SIMILAR)
SCALE A1 1 : 25
A3 1 : 50

NOTES:

1. FOR GENERAL NOTES REFER TO DRAWING NOS. 60095653/IEC/3001.
2. STEEL SECTION SHALL BE S355 JO TO BS EN 10025 UNLESS SHOWN OTHERWISE.
3. CONCRETE FOR PIPE SLEEVE TO BE GRADE 45/20D.
4. GROUT TO BE GRADE 50 NON-SHRINK GROUT.

B

REV. 修訂	DESCRIPTION 內容摘要	CHECKED 審核	DATE 日期
C	REV. WORKING DRAWING	ALCF BCC	DEC 10
B	TENDER ADDENDUM NO.2	ALCF BCC	JUL 10
A	TENDER ADDENDUM NO.1	ALCF BCC	JUN 10
-	TENDER DRAWING	ALCF BCC	MAY 10

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 工務計劃項目編號 579 TH

CENTRAL - WAN CHAI BYPASS - TUNNEL
(NORTH POINT SECTION) AND ISLAND EASTERN CORRIDOR LINK

DOLPHIN STRUCTURE ARRANGEMENT AND DETAILS

SHEET 2 OF 2

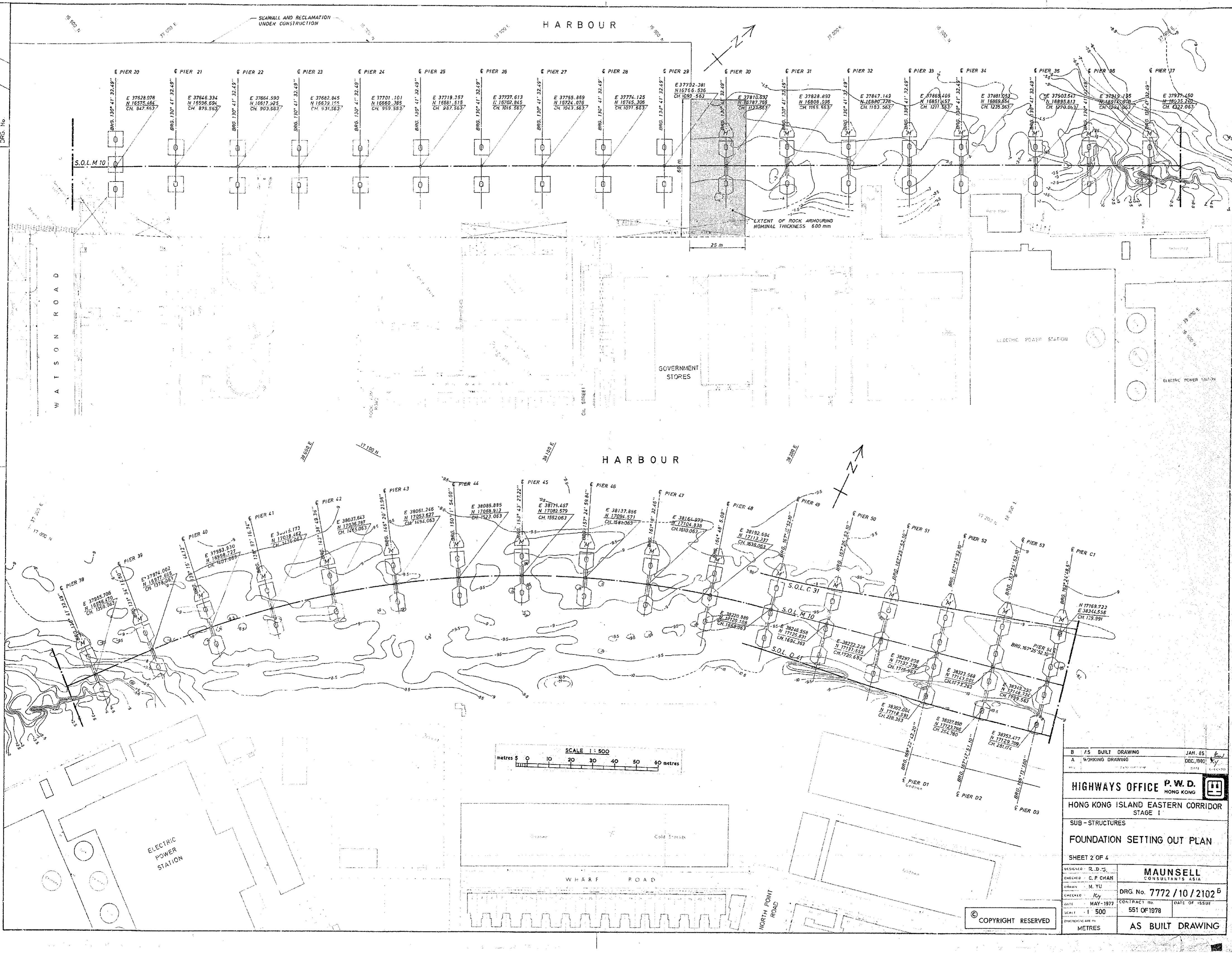
AECOM

DRG.NO. 圖紙編號 60095653/IEC/3382C

DESIGNED BY 設計	ALCF	CONTRACT NO. 合約編號	HY/2009/19
P. Dir. APPROVED 批准人	CW	DRAWN BY 繪圖	ZHY
STATUS 階段		SCALE 比例	A1 1 : 50 A3 1 : 100
DIMENSIONS ARE IN 尺寸單位	MILLIMETRES		

Plot File by : ZHANGY3 2/28/2012

p:\projects\60095653\Drawing\IEC\3000\IEC_3382.dgn



B	AS BUILT DRAWING	JAN. 85
A	WORKING DRAWING	DEC. 1980

HIGHWAYS OFFICE P.W.D. HONG KONG

HONG KONG ISLAND EASTERN CORRIDOR STAGE I

SUB-STRUCTURES

FOUNDATION SETTING OUT PLAN

SHEET 2 OF 4

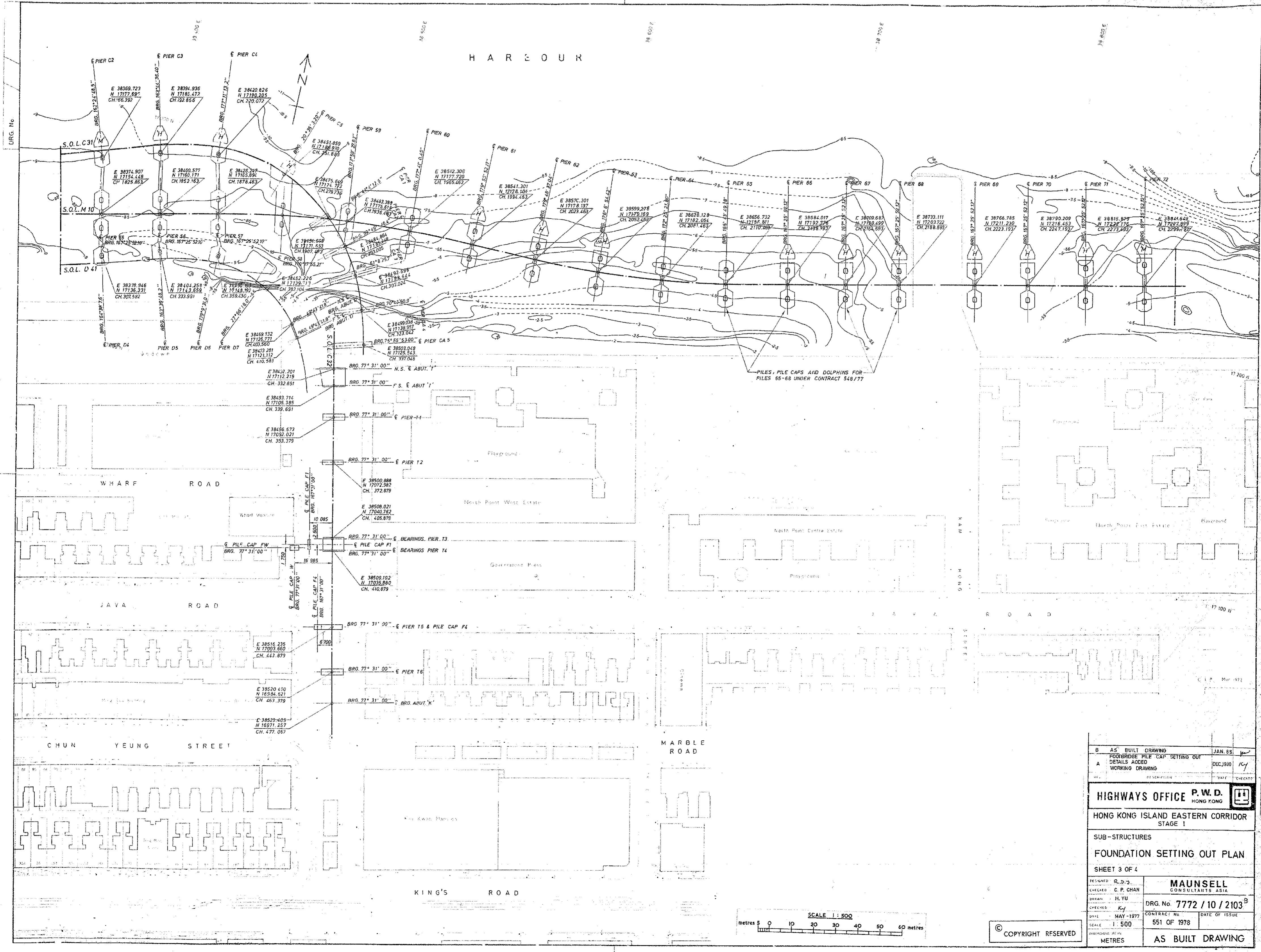
DESIGNED R.D.J.
CHECKED C. P CHAN
DRAWN M. YU
DATE MAY-1977
SCALE 1 : 500
DIMENSIONS ARE IN METRES

MAUNSELL CONSULTANTS ASIA

DRG. No. 7772 / 10 / 2102 B

CONTRACT No. 551 OF 1978

AS BUILT DRAWING



B	AS BUILT DRAWING	JAN. 85	
A	FOOTBRIDGE PILE CAP SETTING OUT DETAILS ADDED WORKING DRAWING	DEC. 1980	KY
REV.	DESCRIPTION	DATE	CHECKED

HIGHWAYS OFFICE P.W.D. HONG KONG

HONG KONG ISLAND EASTERN CORRIDOR STAGE I

SUB-STRUCTURES

FOUNDATION SETTING OUT PLAN

SHEET 3 OF 4

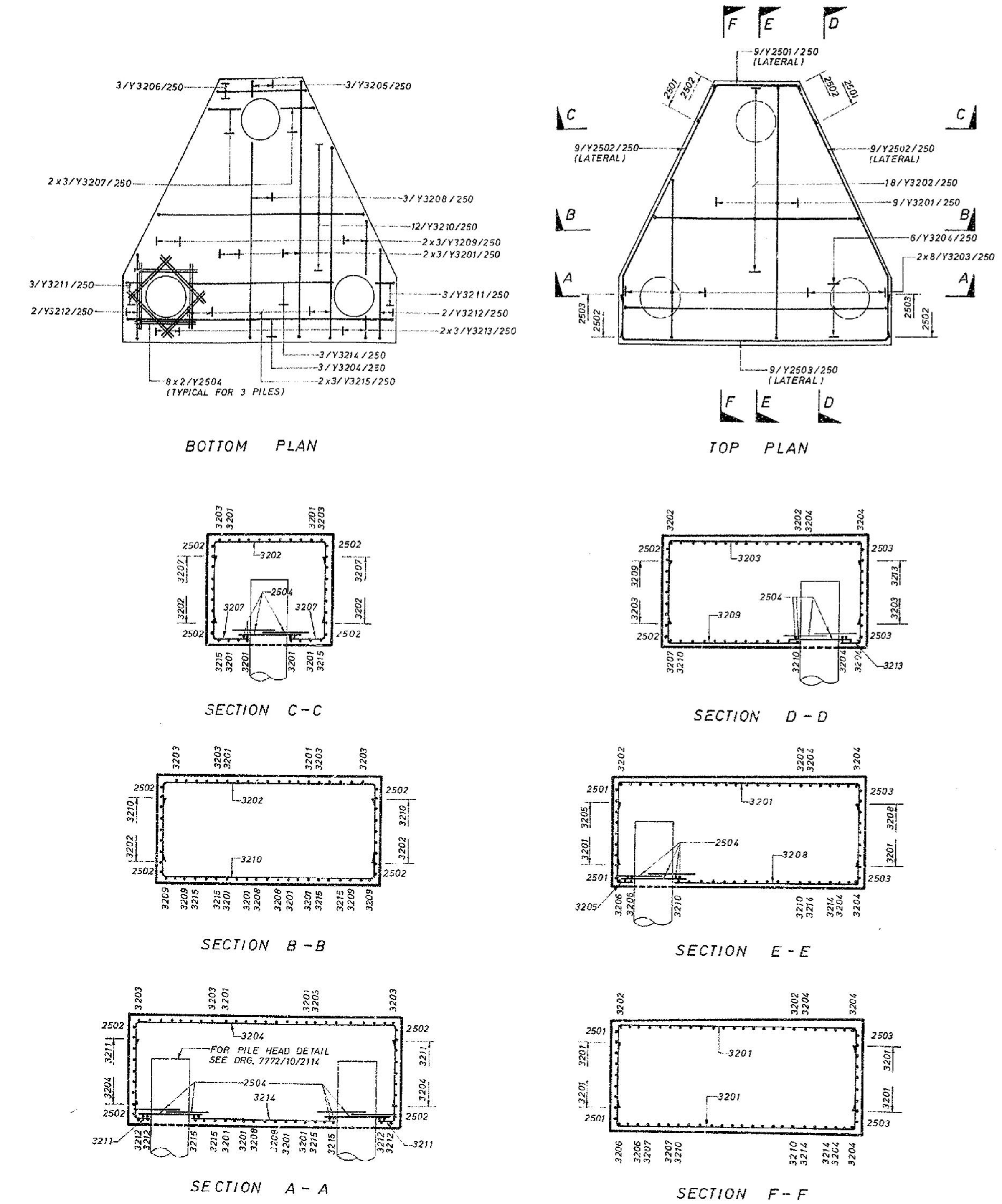
DESIGNED	R.D.G.
CHECKED	C. P. CHAN
DRAWN	H. YU
CHECKED	KY
DATE	MAY-1977
SCALE	1:500
DIMENSIONS IN	METRES

MAUNSELL CONSULTANTS ASIA

DRG. No. 7772 / 10 / 2103 B

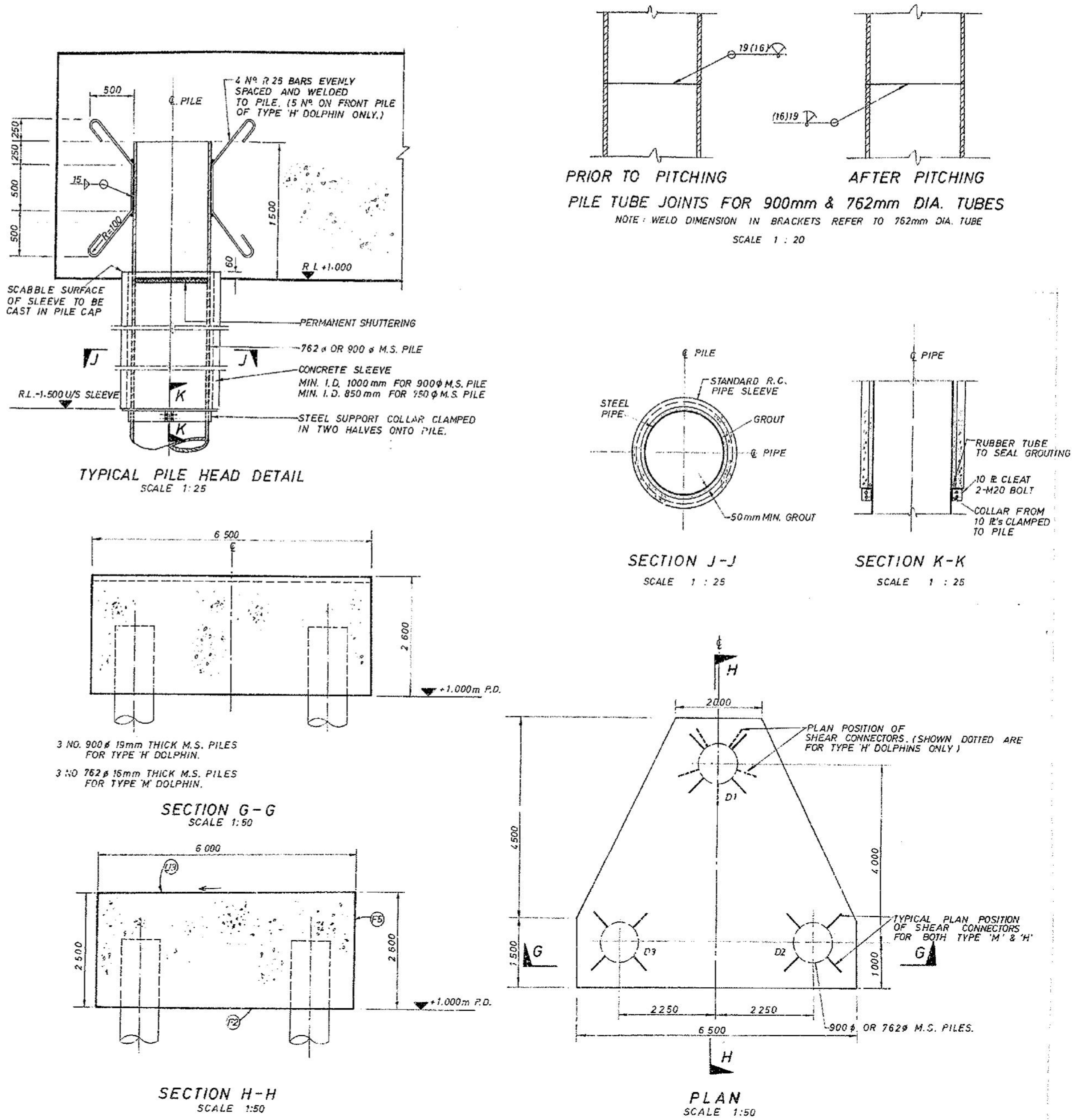
CONTRACT No. 551 OF 1978

AS BUILT DRAWING



DOLPHINS REINFORCEMENT DETAILS

SCALE - 1 : 50



DOLPHIN GENERAL ARRANGEMENT

SCALE 1:50

TYPE 'H' DOLPHIN:-
FOR PIERS 30, 56/C3, 57/C4, 58/C5, 61-63, 69-71, 76/E1, E5 E6, 81/E8, E9 & E10.

TYPE 'M' DOLPHIN:-
FOR PIERS 6-10, 31-53, 54/C1, 55/C2, 72-75 & E7.

TYPE 'H' DOLPHIN PILE SCHEDULE (900 ø)

PILE NO.	CUT-OFF LEVEL (mPD)	BED LEVEL (mPD)	FOUNDING LEVEL (mPD)	ANCHOR STRESSING (KN)
30/D1	+2.50	-6.37	-18.70	1900
D2		-6.13	-28.27	-
D3		-6.60	-30.60	-
56/C3/D1		-10.53	-43.29	-
D2		-10.13	-42.37	-
D3		-10.66	-46.62	-
57/C4/D1		-9.79	-37.06	-
D2		-9.80	-33.45	-
D3		-10.00	-36.34	-
58/C5/D1		-13.57	-26.40	1850
D2		-12.22	-25.00	-
D3		-11.65	-25.23	-
61/D1		-11.75	-28.90	1600
D2		-11.30	-28.85	-
D3		-11.48	-29.91	-
62/D1		-12.22	-32.35	1000
D2		-7.41	-31.38	-
D3		-12.13	-31.93	-
63/D1		-9.39	-33.26	1000
D2		-9.64	-32.56	-
D3		-9.53	-33.32	-
69/D1		-10.42	-29.47	1600
D2		-8.85	-26.83	-
D3		-7.22	-25.65	-
70/D1		-11.30	-26.89	1600
D2		-8.52	-30.94	-
D3		-11.49	-22.89	-
71/D1		-11.45	-30.56	1600
D2		-10.11	-36.51	-
D3		-11.97	-30.72	-
81/E8/D1		-14.56	-37.28	1000
D2		-13.10	-40.57	-
D3		-13.09	-37.38	-
76/E1/D1		-16.15	-39.04	1000
D2		-12.29	-40.32	-
D3		-21.13	-39.54	-
E5/D1		-14.40	-40.50	-
D2		-14.14	-40.47	-
D3		-14.34	-42.20	-
E6/D1		-12.83	-40.08	-
D2		-15.02	-38.61	-
D3		-14.00	-41.71	-
E9/D1		-11.32	-34.49	1000
D2		-11.57	-29.65	-
D3		-11.64	-29.15	-
E10/D1		-9.37	-33.04	1000
D2		-6.95	-36.12	-
D3		-9.76	-21.76	-

TYPE 'M' DOLPHIN PILE SCHEDULE (762 ø)

PILE NO.	CUT-OFF LEVEL (mPD)	BED LEVEL (mPD)	FOUNDING LEVEL (mPD)	ANCHOR STRESSING (KN)
6/D1	+2.50	-8.09	-33.40	–
D2		-8.15	-35.43	–
D3		-7.68	-34.39	–
7/D1		-10.76	-34.38	–
D2		-11.23	-36.12	–
D3		-10.88	-36.12	–
8/D1		-10.09	-32.64	–
D2		-10.24	-34.19	–
D3		-10.28	-35.28	–
9/D1		-9.59	-32.45	–
D2		-10.18	-34.84	–
D3		-10.21	-34.34	–
10/D1		-12.75	-35.05	–
D2		-5.54	-38.22	–
D3		-6.35	-37.67	–
31/D1		-6.67	-25.57	600
D2		-6.57	-25.05	–
D3		-6.64	-27.54	–
32/D1		-6.71	-25.40	600
D2		-6.76	-25.75	–
D3		-6.62	-25.36	–
33/D1		-6.80	-22.64	600
D2		-5.12	-25.21	–
D3		-6.78	-22.15	–
34/D1		-7.10	-24.70	600
D2		-6.57	-25.37	–
D3		-4.73	-25.54	–
35/D1		-7.94	-24.15	600
D2		-7.97	-23.14	–
D3		-8.10	-23.24	–
36/D1		-7.33	-24.95	600
D2		-7.27	-25.40	–
D3		-3.98	-25.49	–
37/D1		-10.90	-30.07	600

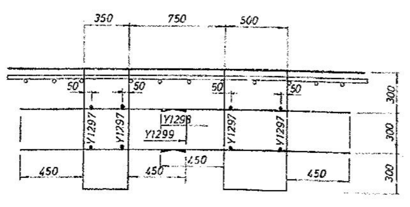
PILE NO.	CUT-OFF LEVEL (mPD)	BED LEVEL (mPD)	FOUNDING LEVEL (mPD)	ANCHOR STRESSING (KN)
37/D2	+2.50	-10.80	-30.10	–
D3		-7.60	-30.23	–
38/D1		-12.75	-33.75	–
D2		-12.81	-32.52	–
D3		-13.11	-32.20	–
39/D1		-15.02	-35.23	600
D2		-13.96	-35.57	–
D3		-12.94	-35.35	–
40/D1		-13.25	-33.44	600
D2		-9.21	-29.80	–
D3		-8.89	-29.13	–
41/D1		-13.53	-35.60	–
D2		-13.42	-36.36	–
D3		-13.37	-37.90	–
42/D1		-15.14	-27.28	850
D2		-13.34	-30.15	–
D3		-10.04	-22.03	–
43/D1		-10.70	-26.97	600
D2		-13.75	-20.75	–
D3		-13.80	-24.81	–
44/D1		-13.90	-31.53	500
D2		-13.92	-32.46	–
D3		-13.85	-32.41	–
45/D1		-14.35	-33.22	600
D2		-14.10	-32.92	–
D3		-12.48	-33.02	–
46/D1		-14.25	-35.75	–
D2		-14.40	-39.66	–
D3		-14.13	-36.59	–
47/D1		-15.40	-39.19	–
D2		-16.75	-37.18	–
D3		-16.25	-43.44	–
49/D1		-14.11	-36.09	–
D2		-13.25	-40.85	–

PILE NO.	CUT-OFF LEVEL (mPD)	BED LEVEL (mPD)	FOUNDING LEVEL (mPD)	ANCHOR STRESSING (KN)
49/D3	+2.50	-14.11	-36.09	–
49/D1		-13.96	-39.98	–
D2		-13.34	-41.26	–
D3		-13.95	-41.94	–
50/D1		-13.75	-38.48	–
D2		-13.57	-38.65	–
D3		-13.83	-39.81	–
51/D1		-13.58	-36.74	–
D2		-13.75	-35.33	–
D3		-13.73	-36.21	–
52/D1		-13.78	-36.54	–
D2		-13.63	-41.13	–
D3		-13.63	-40.62	–
53/D1		-14.25	-31.47	600
D2		-13.27	-28.63	–
D3		-13.48	-28.23	–
54/C1/D1		-12.37	-31.90	600
D2		-12.38	-32.91	–
D3		-9.55	-31.93	–
55/C2/D1		-12.59	-27.72	600
D2		-12.38	-32.91	–
D3		-12.17	-23.34	–
72/D1		-13.84	-35.09	–
D2		-12.03	-37.13	–
D3		-11.39	-31.95	–
73/D1		-13.49	-34.66	–
D2		-12.34	-38.15	–
D3		-13.34	-37.52	–
74/D1		-15.15	-36.30	–
D2		-11.18	-35.29	–
D3		-12.75	-36.24	–
75/D1		-15.69	-36.78	–
D2		-15.59	-33.54	–
D3		-15.59	-23.75	–

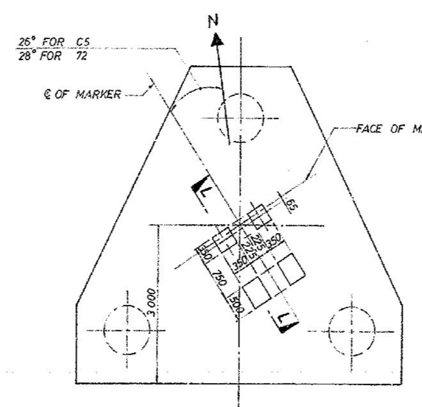
PILE NO.	CUT-OFF LEVEL (mPD)	BED LEVEL (mPD)	FOUNDING LEVEL (mPD)	ANCHOR STRESSING (KN)
E7/D1	+2.50	-11.48	-32.56	-
D2		-11.11	-37.03	-
D3		-14.13	-28.13	-

NOTES:

1. CONCRETE GRADE 37.5/20
2. MIN. CONCRETE COVER 60

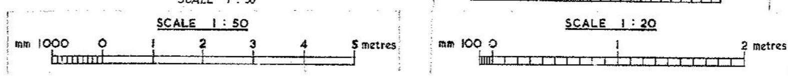


SECTION L-L



BOXOUTS FOR CROSS HARBOUR CABLE DUCT MARKER — DOLPHIN CAP C5 & 72

SCALE 1 : 50



NOTES FOR DOLPHIN PILES :-

1. ALL STEEL TO B.S. 4360 GRADE 43A.
2. WELDING SYMBOLS TO B.S. 499.
3. WORKING LOADS AND MINIMUM DRIVEN LENGTH AFTER PITCHING AND SETTLEMENT UNDER OWN WEIGHT AND THAT OF ASSOCIATED PILE DRIVING EQUIPMENT SHALL BE RESPECTIVELY :-
   a. FRONT PILE IN EACH GROUP OF THREE
      900mm DIAMETER 3000 kN 15 METRES
      762mm DIAMETER 1500 kN 15 METRES
   b. REAR TWO PILES IN EACH GROUP OF THREE
      900mm DIAMETER 3400 kN 10 METRES
      762mm DIAMETER 2300 kN 10 METRES

REV.	DESCRIPTION	DATE	CHECKED
B	AS BUILT DRAWING	JAN. 85	
	PIER C5 & 72 - BOX-OUT ADDED	DEC. 83	
A	WORKING DRAWING MINOR REVISIONS	DEC, 1980	R.D.J.

HIGHWAYS OFFICE P.W.D. HONG KONG

HONG KONG ISLAND EASTERN CORRIDOR STAGE I

SUB-STRUCTURE — MAIN CARRIAGEWAY

DOLPHIN G.A. & R.C. DETAILS

DESIGNED - S.Y. CHAN
CHECKED -
DRAWN - W.K. Chuen
CHECKED - Ky
DATE - MAR., 1980
SCALE AS SHOWN
DIMENSIONS ARE IN MILLIMETRES

MAUNSELL CONSULTANTS ASIA

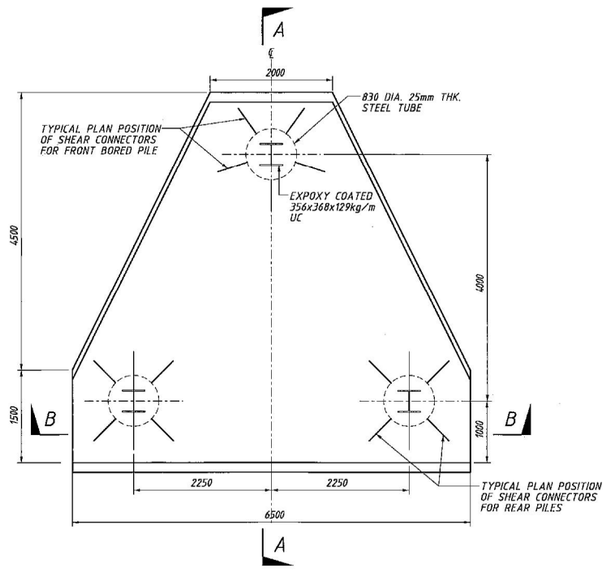
DRG. No. 7772 / 10 / 2121 B

CONTRACT No. 551 OF 1978

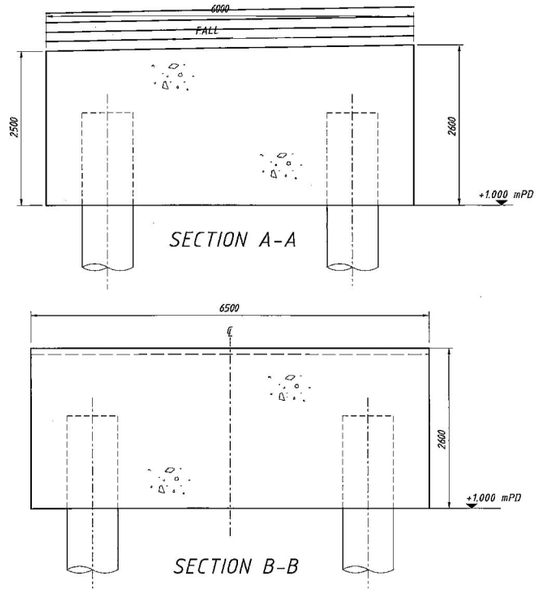
DATE OF ISSUE

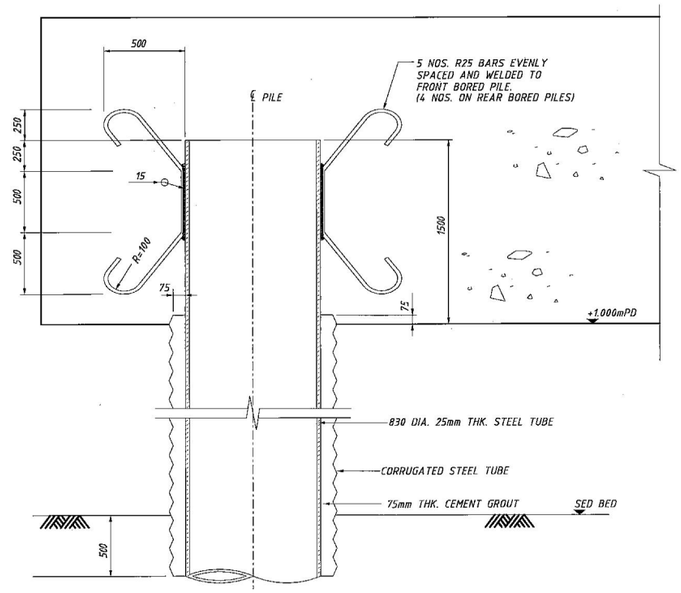
AS BUILT DRAWING

FRAME 1130 x 800 mm
AO SHEET 1189 x 841 mm



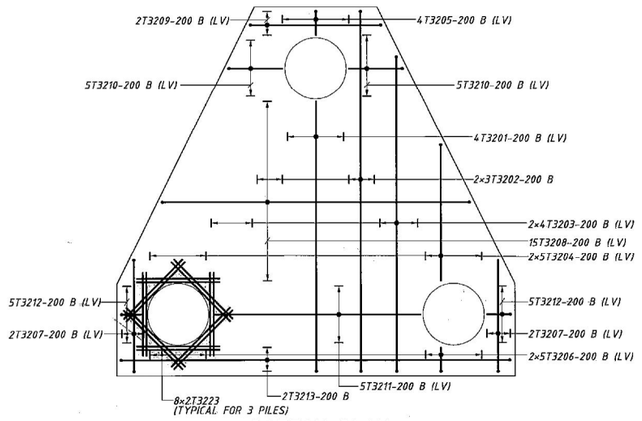
PLAN



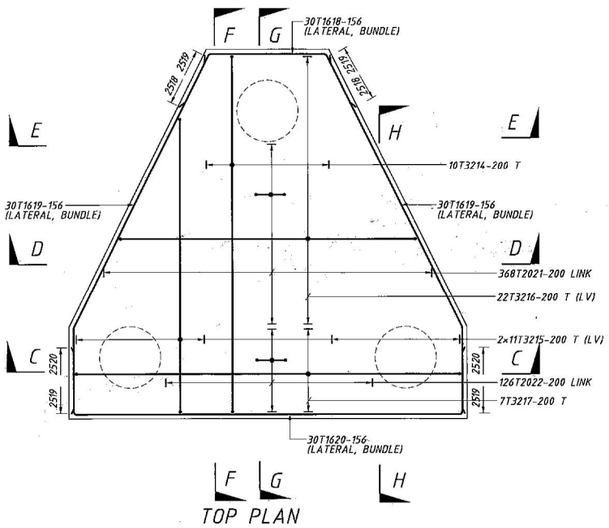


TYPICAL BORED PILE HEAD DETAIL
SCALE 1:25
(STEEL UC NOT SHOWN FOR CLARITY)

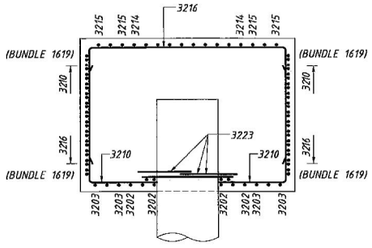
DOLPHIN GENERAL ARRANGEMENT
SCALE 1 : 50



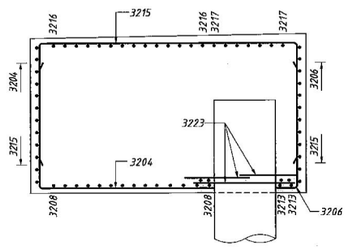
BOTTOM PLAN
SCALE 1 : 50



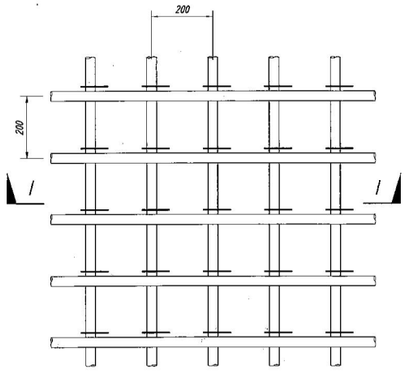
TOP PLAN
SCALE 1 : 50



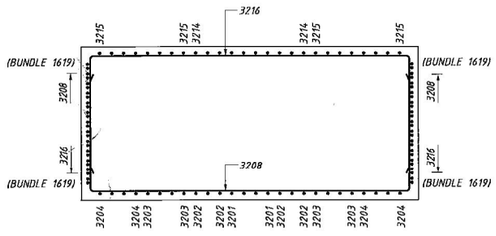
SECTION E-E
SCALE 1 : 50



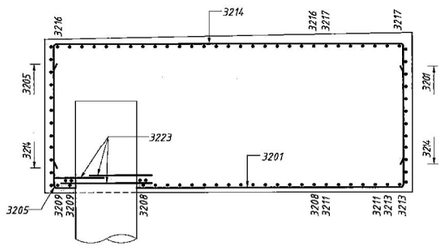
SECTION H-H
SCALE 1 : 50



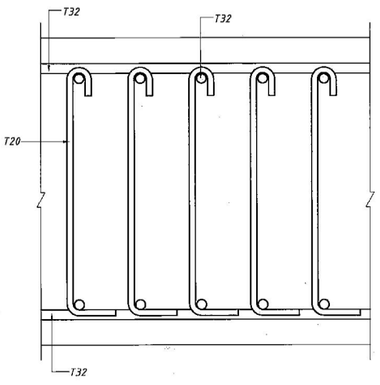
PLAN OF LINKS ARRANGEMENT
SCALE 1 : 10



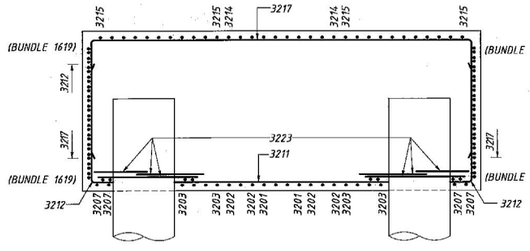
SECTION D-D
SCALE 1 : 50



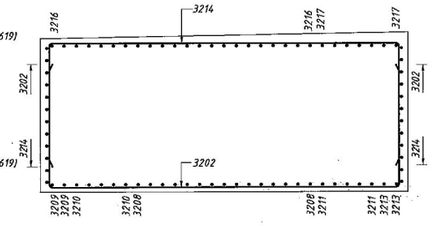
SECTION G-G
SCALE 1 : 50



SECTION I-I
SCALE 1 : 10



SECTION C-C
SCALE 1 : 50



SECTION F-F
SCALE 1 : 50

DOLPHINS REINFORCEMENT DETAILS
SCALE 1 : 50

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRG. NO. 90199/4302.
2. ALL STEEL TO B.S. 4360 GRADE 43C.
3. WELDING SYMBOLS TO B.S. 499.

REV. 修訂	DESCRIPTION 內容說明	BY. CHECKED 核校	APPROVED 批準人	DATE 日期
B	AS-BUILT DRAWING	GR	RL	MAR.03
A	WORKING DRAWING	CKWY		JULY 00
-	TENDER DRAWING			MAR.00

Highways Department
Major Works Project Management Office

IMPROVEMENTS TO ISLAND EASTERN CORRIDOR SECTION BETWEEN NORTH POINT INTERCHANGE AND SAI WAN HO

BRIDGE A DOLPHIN GENERAL ARRANGEMENT AND REINFORCEMENT DETAILS

SHEET 1 OF 2

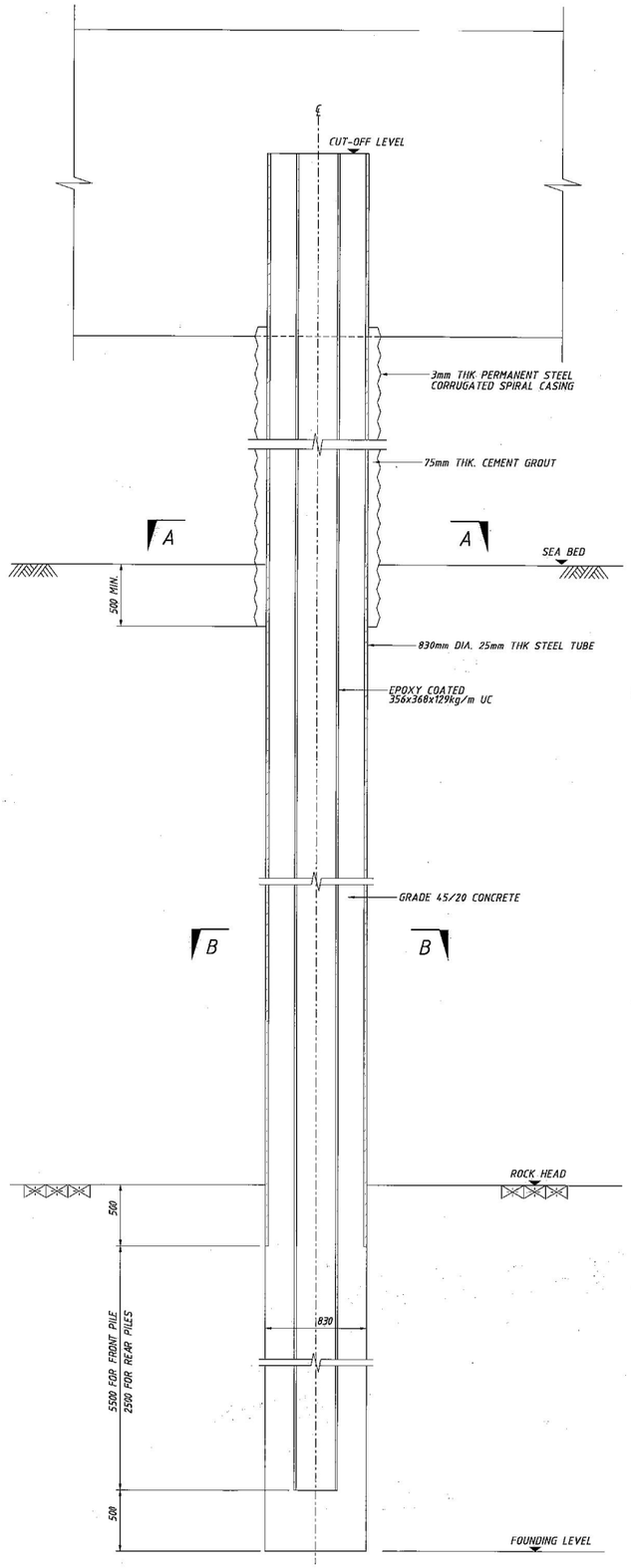
MAUNSELL CONSULTANTS ASIA LTD
茂盛亞洲工程顧問有限公司

DRG.NO. 圖紙編號 90199/4271 B

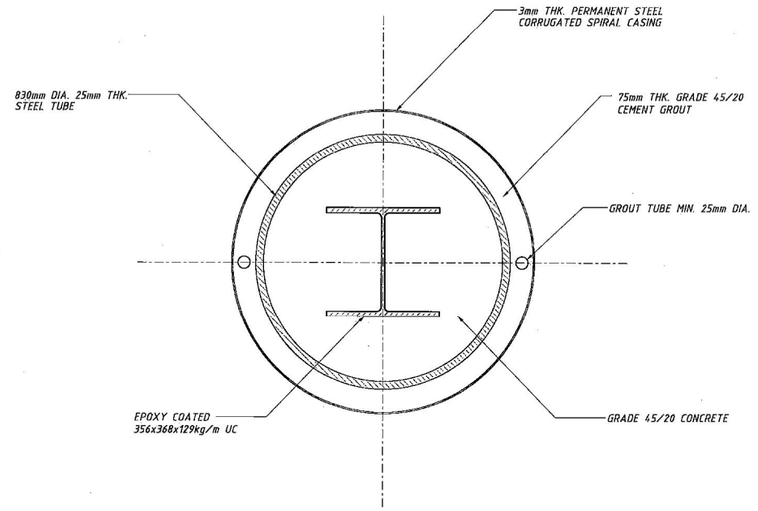
DESIGNED BY 設計 BHWK	CONTRACT NO. 合約編號 HY/99/15	DATE OF ISSUE 發出日期
DRAWN BY 繪圖 LJH	STATUS 圖紙狀況 AS-BUILT DRAWING	
SCALE 比例 A1 AS SHOWN		
DIMENSIONS ARE IN 尺寸單位 MILLIMETRES		

Maunsell

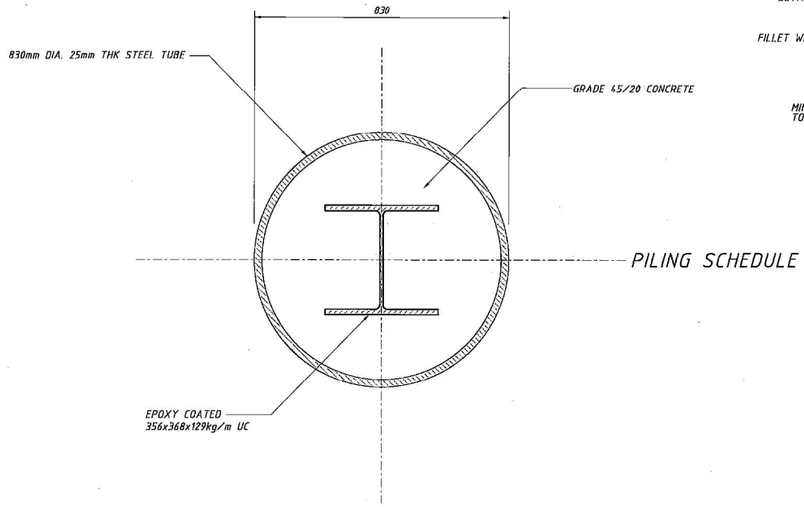
Q:\PROJECTS\90199\4271.DGN



BORED PILE DETAILS
SCALE 1 : 25



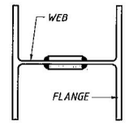
SECTION A - A
SCALE 1 : 10



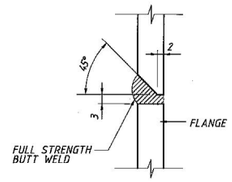
SECTION B - B
SCALE 1 : 10

PILING SCHEDULE

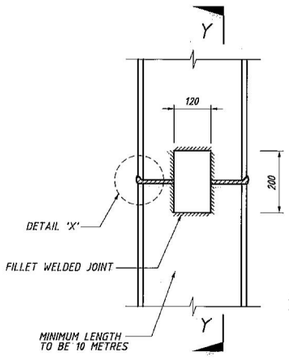
PIER NO.	APPROX. SEABED LEVEL (mPD)	APPROX. BED-ROCK LEVEL (mPD)	APPROX. PILE FOUNDING LEVEL (mPD)	
			FRONT PILE	REAR PILES
A2	-6.9	-50.8	-57.3	-54.3
A3	-6.0	-50.3	-56.8	-53.8
A4	-6.1	-49.5	-56.0	-53.0
A5	-6.2	-48.7	-55.2	-52.2
A6	-6.4	-48.0	-54.5	-51.5
A7	-6.5	-47.2	-53.7	-50.7
A8	-7.9	-47.5	-54.0	-51.0
A9	-9.3	-47.9	-54.4	-51.4
A10	-9.4	-44.7	-51.2	-48.2
A11	-9.5	-41.6	-48.1	-45.1
A12	-9.6	-38.5	-45.0	-42.0
A13	-9.7	-35.3	-41.8	-38.8
A14	-9.8	-32.2	-38.7	-35.7
A15	-9.9	-29.0	-35.5	-32.5
A16	-10.0	-26.0	-32.5	-29.5
A18	-11.4	-29.2	-35.7	-32.7
A19	-12.0	-30.9	-37.4	-34.4
A20	-11.6	-36.0	-36.0	-35.5
A21	-11.1	-38.0	-44.5	-41.5
A22	-10.7	-37.0	-43.5	-40.5
A23	-10.7	-37.0	-43.5	-40.5
A24	-10.7	-37.2	-43.7	-40.7
A25	-10.7	-37.4	-43.9	-40.9



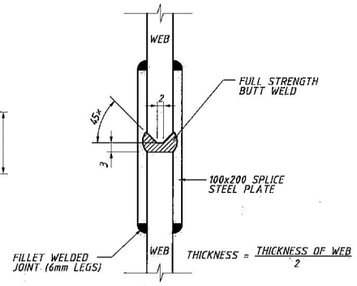
PLAN
SCALE 1 : 10



DETAIL 'X'
(VERTICAL WELD)
SCALE 1 : 2



PLAN
SCALE 1 : 10



SECTION Y - Y
SCALE 1 : 2

TYPICAL SPLICING DETAIL FOR UC AT BRIDGE A DOLPHIN PILES

PILE LOADING SCHEDULE

PILE	DESIGN VERTICAL LOAD (kN)	
	MINIMUM	MAXIMUM
FRONT PILE	-2207	-732
REAR PILE	-732	3267

REMARKS:
1.) SELF-WEIGHT OF PILE NOT INCLUDED.
2.) MINUS SIGN INDICATES TENSION.

NOTES:
1.) THIS DRAWING TO BE READ IN CONJUNCTION WITH DRG. NO. 90199/4271.
2.) FOR PILING NOTES, REFER TO DRG. NO. 90199/4001.

REV. 修訂	DESCRIPTION 內容摘要	BY 由	CHECKED 核對	APPROVED 認許人	DATE 日期
C	AS-BUILT DRAWING	GR	CKWT	AL	MAR.03
B	WORKING DRAWING				JULY 00
A	TENDER ADDENDUM NO. 2				APR.00
	TENDER DRAWING	BHWK	DF	DL	MAR.00

Highways Department
Major Works Project Management Office

IMPROVEMENTS TO ISLAND EASTERN CORRIDOR SECTION BETWEEN NORTH POINT INTERCHANGE AND SAI WAN HO

BRIDGE A DOLPHIN GENERAL ARRANGEMENT AND REINFORCEMENT DETAILS

SHEET 2 OF 2

MAUNSELL CONSULTANTS ASIA LTD
茂盛 亞洲 工程顧問有限公司

DRG.NO. 圖紙編號 90199/4272 C

DESIGNED BY 設計 BHWK	CONTRACT NO. 合約編號 HY/99/15	DATE OF ISSUE 發出日期
DRAWN BY 繪圖 LJH	STATUS 狀況狀況 AS-BUILT DRAWING	
SCALE 比例 A1 AS SHOWN		
DIMENSIONS ARE IN 尺寸單位 MILLIMETRES	© COPYRIGHT RESERVED 版權所有	

Maunsell

D:\PROJECTS\90199\4272.DGN