



MARK No.	No.	DESCRIPTION	CORROSION PROTECTION	SIZE	LENGTH	REMARKS	COMPONENT MASS	MASS PER UNIT	TO1
P1	2	Steel plate	Hot dip galvanized						170
		Each unit to be fabricated from :							
		1 - Steel plate		PL 32x550	6 400	See detail for Abutment	884.224	884.224	
		9 - Nelson Type NBL, no thread studs		10 dia.	19		0.012	0.108	
								884.332	
P1a	2	Steel plate	Hot dip galvanized						17
		Each unit to be fabricated from :	. 0						
		1 - Steel plate		PL 32x550	6 400	See detail for Abutment	884.224	884.224	
		9 - Nelson Type NBL, no thread studs		10 dia.	19		0.012	0.108	
								884.332	
Da	2	Steel plate	Hat din galvanizad						1
P2	2	Steel plate  Each unit to be fabricated from :	Hot dip galvanized						1
		1 - Steel plate		PL 32x500	6.000	Coo detail for Intermediate Bent	753.600	753.600	<u> </u>
		18 - Nelson Type NBL, no thread studs		10 dia.		See detail for intermediate Bent	0.012	0.216	
		To - Neison Type NBL, no tinead studs		10 dia.	19		0.012	753.816	
P2a	2	Steel plate	Hot dip galvanized						1
		Each unit to be fabricated from :							
		1 - Steel plate		PL 32x500	6 600	See detail for Intermediate Bent	828.960	828.960	
		18 - Nelson Type NBL, no thread studs		10 dia.	19		0.012	0.216	
								829.176	
P3	4	Steel channel	Hot dip galvanized	C310x45	12.900	See detail for Abutment		572.160	2
P4	2	Steel channel	Hot dip galvanized	C310x45				563.220	1
P4a	2	Steel channel	Hot dip galvanized	C310x45				563.220	
R30		Cicci chamici	Tiot dip garvariized	0010743	12 000	oce detail of intermediate Bent		303.220	<u> </u>
	172	A325 bolt assembly	Hot dip galvanized	16 dia.	89	Steel plate to channels		0.245	
R32	48	A325 bolt assembly	Hot dip galvanized	16 dia.	76	Steel plate to channels C'bore holes		0.225	
R35	384	A325 bolt assembly	Hot dip galvanized	22 dia.	64	Channels to piles		0.461	
R36	48	A325 bolt assembly	Hot dip galvanized	16 dia.	64	Angles Mk. "S1" to piles & bracket Mk. "S2" to cap		0.205	
04	00	Anada	Hat die valvasies d	1.450-450-40	050	An datailed		7.050	
S1 S2		Angle Bracket	Hot dip galvanized Hot dip galvanized	L 152x152x13	250			7.250 11.226	
S3	4 16	Plate		PL 6x300				3.223	
S4	32	Filler plate	Hot dip galvanized Hot dip galvanized	PL 6x300	200			1.413	-
S5	16	Filler plate	Hot dip galvanized	PL 3x100				0.707	-
A1	16	Structural plate washer	Hot dip galvanized	PL 10x150				1.766	-
A2	8	Structural plate washer	Hot dip galvanized	PL 10x190				0.636	
TR1	54	Threaded rods c/w two hex. nuts	Hot dip galvanized	19 dia.				0.940	
TR3	32	Threaded rods c/w two hex. nuts	Hot dip galvanized	19 dia.	300	Steel plates Mk. "S3" to precast panels		0.660	
					0 6 400 See detail for Abutment 19 0 6 000 See detail for Intermediate Bent 19 0 6 600 See detail for Intermediate Bent 19 0 6 600 See detail for Intermediate Bent 19 10 See detail for Intermediate Bent 19 11 See detail for Intermediate Bent 19 10 See detail for Intermediate Bent 10 See detail for Intermediate Bent 11 See detail for Intermediate Bent 12 600 See detail for Intermediate Bent 12 600 See detail for Intermediate Bent 13 Steel plate to channels 14 Channels to piles 15 Angles Mk. "S1" to piles & bracket Mk. "S2" to cap 16 As detailed 17 As detailed 18 As detailed 19 As detailed 10 As detailed 10 As detailed 10 As detailed 11 As detailed 12 As detailed 13 As detailed 14 As detailed 15 As detailed 16 One to bolt Mk. "R34" 16 One to threaded rod Mk. "TR2" 17 One to threaded rod Mk. "TR2" 18 One to threaded rod Mk. "R32" 18 One to TR1", two to "TR3" 18 One to TR1", two to "TR3" 18 One to bolt Mk. "R35" 18 One to bolt Mk. "R35" 18 One to bolt Mk. "R36" 19 One to bolt Mk. "R36" 19 One to bolt Mk. "R36" 19 One to bolt Mk. "R36" 10 One to bolt Mk. "R36" 10 One to bolt Mk. "R36" 10 One to bolt Mk. "R36" 11 One pair to bolt Mk. "R1"				
		Hardened bevel washer	Hot dip galvanized	for 16 dia. bolts				0.110	
	18	Standard flat was her	Stainless steel	for 13 dia. rod				0.010	
	118 18	Standard flat washer Standard lock washer	Hot dip galvanized Stainless steel	for 19 dia. rod for 13 dia. rod				0.020	
	86	Structural lock washer	Hot dip galvanized	for 19 dia. rod				0.010	
		F436 Hardened washer	Hot dip galvanized	for 22 dia. bolts	-			0.020	
	48	F436 Hardened washer	Hot dip galvanized	for 16 dia. bolts				0.014	
R1 W1		A325 bolt assembly Structural flat washer	Hot dip galvanized	22 dia. for 22 dia. bolts	76	_		0.499	
	192 192	Pair Nord-Lock lock washers	Hot dip galvanized	for 22 dia. bolts				0.050	
	192	r all INUIU-LUCK IUCK WASHEIS		ioi ZZ dia. DollS		One pair to boit Mr. K I		0.020	
SH1	96	Shim plate	Hot dip galvanized	PL 2.5x80	180	As detailed - use as required		0.231	
SH2	96	Shim plate	Hot dip galvanized	PL 5x80		-		0.463	
			l	I					1

NOTES:

1. All material noted in the above Bill shall be hot dip galvanized after fabrication in accordance with ASTM A123, A153 & A143 for a minimum net retention of 610 g/m² unless otherwise stated in the specified material ASTM standards. The fabricator and galvanizer shall safeguard against embrittlement using recommended practices from applicable standards. 2. Seal all welds prior to galvanizing.

3. Apply Galvaloy to all field welds and areas where galvanizing has been damaged. 4. All bolts and threaded rod in the above Bill shall be Imperial thread.

		REVIS	SIONS	STEEL PILE CAP DETAILS				
DATE	BY	D	ESCRIPTION			APPROVED BY:		
Original signed and sealed by Andy Pankratz July 9, 2020			RECORD SEAL		Infrastructure /ater Management and Structures	Original signed by John Logan  November 8, 2020  DIRECTOR OF STRUCTURES		
				DESIGN	BY:A.H.P	DATE		
				DESIGN	CHECKED:	SCALE:  SHEET No 2 of 2		
, ou	, o, 2020			DETAILS	BY:K.P./N.J			
				DETAILS	CHECKED:A.H.P	or as shown STD No. PPCC_PR_10.8_12m_IB_SC03		