

Cost Estimate Summary - TT Line Bespoke Capital Only

Project Title:	Devonport East Reconfiguration Programme
Project No.:	6A0000
Description:	Reconfiguration of Berths 1,2 and 3 at Devonport East to Accommodate the New TT-Line Vessels
Date:	19/05/2020
Revision:	H

Notes
1. Bespoke scope of work based on definition contained in Functional User Requirements
2. Berth 1,2 and 3 works based on extract of WT Cost Estimate 185957 - Devonport East Reconfiguration 27/3/2020
3. Preliminaries, marine and overhead based on single contract, with amounts evenly apportioned
4. Estimate based on concept design only. Limits of accuracy +/- 20% based on scope status
5. Building cost estimate based on WT Cost Estimate Dec 2019
6. Building estimate limits of accuracy +/- 40% based on scope status
7. Building cost preliminaries costed separately to berth 1,2 and 3 as possible separate contract
8. Base case 10% contingency applied, subject to agreement + further risk analysis if required
9. All estimates subject to change based on market and tendering conditions
10. All estimates ex GST

Category	Base	Incl margin and OH (as %)
Pavement Earthworks Services	\$7.1m	\$10.2m
Ramps	\$26.1m	\$37.8m
AMUs	\$6.6m	\$9.6m
Services	\$5m	\$8m
Buildings	\$12.2m	\$12.2m
Total margin and overhead	\$18.1m	incl
TOTAL BESPOKE (excl contingency)	\$70.53m	\$70.53m

Item	Unit	Qty	Rate	Costs	Category
INHERENT (BASE) ITEMS					

1	BERTH 3					
1.1	Fenders and AMUs					
1.1.1	Automated Mooring Unit					
1.1.1.1	Allowance for supply of New Automated Mooring Unit	No.	6	\$ 1,055,000	\$ 6,330,000	AMUs
1.1.1.2	Supply based advice from Cavotec model number MM400E15 - allowance of €650k (Euro) for 1 No. unit	Note				
1.1.1.3	Allowance for installation of New Automated Mooring Unit	No.	6	\$ 21,600	\$ 129,600	AMUs
1.1.2	Automated Berthing Pedestal to New Wharf					
1.1.2.1	3000 x 3000 x 300 thick Reinforced concrete stepped Pedestal (assume 200kg/m3 of Reinforcing)	No.	6	\$ 4,005	\$ 24,030	AMUs
1.1.2.2	allowance for tie in	No.	180	\$ 180	\$ 32,400	AMUs
1.1.2.3	380 PFC Bracket with M36 threaded bar and 150 x 12EA Galv angle cast into the pedestal	No.	12	\$ 4,280	\$ 51,360	AMUs
1.1.2.4	140 x 5.0 CHS Bollard	No.	12	\$ 1,000	\$ 12,000	AMUs
1.1.2.5	80t Trelleborg Kidney Bollard	No.	6	\$ 6,580	\$ 39,480	AMUs
1.2	Berth 3 Ramp Abutment					
1.2.1	Piling					
1.2.1.1	762mm dia x 16mm thick CHS raking pile (Grade 450) with 5m long pile plug (assumed) and denso wrapped 1000mm below OCD (assumed)	No.	16	\$ 44,472	\$ 711,546	Ramps
1.2.1.2	762mm dia x 16mm thick CHS vertical pile (Grade 450) with 5m long pile plug (assumed) and denso wrapped 1000mm below OCD (assumed)	No.	4	\$ 41,972	\$ 167,887	Ramps
1.2.1.3	914mm dia x 16mm thick CHS raking pile (Grade 450) with 5m long pile plug (assumed) and denso wrapped 1000mm below OCD (assumed)	No.	8	\$ 51,530	\$ 412,243	Ramps
1.2.2	Dolphin					
1.2.2.1	4500mm x 5000mm x 1500mm Reinforced concrete Pile Cap with assumed reinforcement ratio of 200kg/m3	No.	2	\$ 27,900	\$ 55,800	Ramps
1.2.2.2	Supply & Install Pre-cast Panel trough	m2	102	\$ 1,465	\$ 149,469	Ramps
1.2.2.3	10500mm x 6000mm x 1500mm Reinforced concrete Pile Cap with assumed reinforcement ratio of 200kg/m3	No.	2	\$ 68,475	\$ 136,950	Ramps
1.2.2.4	Supply & Install Pre-cast Panel trough	m2	222	\$ 1,465	\$ 325,315	Ramps
1.2.2.5	1500mm x 3000mm reinforced concrete fender beam under dolphin	m	13	\$ 6,979	\$ 90,725	Ramps
1.2.3	Beam					
1.2.3.1	1000mm x 1500mm reinforced concrete beam	m	59	\$ 2,912	\$ 171,803	Ramps
1.2.3.2	1500mm x 1500mm reinforced concrete beam	m	10	\$ 4,473	\$ 44,733	Ramps
1.2.3.3	2500mm x 1500mm reinforced concrete beam	m	22	\$ 6,104	\$ 134,280	Ramps
1.2.3.4	Transverse beam under ramp (assumed steel beam 1400 x 35 to base and top, 1400 x 25 to sides)	m	29	\$ 15,960	\$ 462,840	Ramps
1.2.4	Deck					
1.2.4.1	700mm thick Reinforced Concrete deck (assume 300mm thick Pre-cast & 400mm thick insitu)	m2	126	\$ 1,235	\$ 155,625	Ramps
1.3	TT-Line Ramp Works					
1.3.1	Ramp/Retaining Walls					
1.3.1.1	Allowance for Strip Footing to Base/Top of the Ramp (Assume 750mm x 750mm)	m	56	\$ 891	\$ 49,875	Ramps
1.3.1.2	Allowance for Bored Piers to Base of Ramp (assume 1200dia x 10m deep x 6No. Base and 3No. top)	No.	9	\$ 26,304	\$ 236,736	Ramps
1.3.1.3	500 x 500 (assumed) strip footing to the base of the retaining wall	m	163	\$ 450	\$ 73,350	Ramps
1.3.1.4	200mm thick (assumed) Reinforced Concrete Retaining wall including Straps (RL4.70 - RL12.46)	m2	780	\$ 1,200	\$ 936,000	Ramps
1.3.1.5	Mass fill concrete to Back of RSS Wall (assume .5m3/m2 of wall based on previous projects	m3	390	\$ 280	\$ 109,200	Ramps
1.3.1.6	Allowance for Drainage to RSS Wall (Based on Plan area measure)	m2	1608	\$ 56	\$ 89,749	Ramps
1.3.1.7	Engineered Fill to Retaining wall	m3	12089	\$ 80	\$ 967,120	Ramps
1.3.1.8	L Shaped Reinforced Concrete Ground beams to Sit Barriers on (4000 x 400mm high with a 600mm x 1000mm High Nib)	m	163	\$ 2,646	\$ 431,330	Ramps
1.3.1.9	Allowance for 1810 high x 265 - 476mm wide pre-cast concrete barrier	m	163	\$ 1,750	\$ 285,250	Ramps
1.3.1.10	Allowance for Crash Attenuators	No.	2	\$ 35,000	\$ 70,000	Ramps
1.3.1.11	Allowance for Pavement Based on 210mm of AC & 380mm of Crushed Rock	m2	1608	\$ 168	\$ 269,822	Ramps
1.3.2	Foundations					
1.3.2.1	457 x 16 CHS Grade 350 Piles to -30mCD including Reinforced Concrete pile plug, Coating (to seabed) and wrapping (splash zone)	No.	8	\$ 26,201	\$ 209,608	Ramps
1.3.2.2	Steel H Piles Grade 350 (assume 180kg/m x 30m Length)	No.	24	\$ 17,150	\$ 411,600	Ramps
1.3.3	Footings					
1.3.3.1	4500 x 4500 x 1500 Reinforced Concrete Pile Footing (assume 200kg/m3)	No.	2	\$ 43,554	\$ 87,109	Ramps
1.3.3.2	3500 x 3500 x 1500 (assumed) Reinforced Concrete Pile Footing (assume 200kg/m3)	No.	6	\$ 27,514	\$ 165,086	Ramps
1.3.4	Columns 850 x 650 (RL4.70 - RL12.46)					
1.3.4.1	Concrete to Columns	m3	25	\$ 450	\$ 11,250	Ramps
1.3.4.2	Form-work to columns	m2	136	\$ 750	\$ 102,000	Ramps
1.3.4.3	Reinforcing to Columns (assume 200kg/m3)	t	5	\$ 3,000	\$ 15,000	Ramps
1.3.5	Columns 1000 x 700 (RL4.70 - RL16.65)					
1.3.5.1	Concrete to Columns	m3	17	\$ 450	\$ 7,650	Ramps
1.3.5.2	Form-work to columns	m2	82	\$ 750	\$ 61,500	Ramps
1.3.5.3	Reinforcing to Columns (assume 200kg/m3)	t	3.4	\$ 3,000	\$ 10,200	Ramps
1.3.6	Columns 2000 x 1200 (RL4.70 - RL12.46)					
1.3.6.1	Concrete to Columns	m3	32	\$ 450	\$ 14,400	Ramps
1.3.6.2	Form-work to columns	m2	94	\$ 750	\$ 70,500	Ramps

1.3.6.3	Reinforcing to Columns (assume 200kg/m3)	t	6.4	\$	3,000	\$	19,200	Ramps
1.3.7	Columns 1800 x 750 (RL4.70 - RL16.65)							
1.3.7.1	Concrete to Columns	m3	65	\$	450	\$	29,250	Ramps
1.3.7.2	Form-work to columns	m2	244	\$	750	\$	183,000	Ramps
1.3.7.3	Reinforcing to Columns (assume 200kg/m3)	t	13	\$	3,000	\$	39,000	Ramps
1.3.8	Headstocks 650 x 1500							
1.3.8.1	Concrete to Headstocks	m3	124	\$	450	\$	55,800	Ramps
1.3.8.2	Form-work to Headstocks	m2	464	\$	900	\$	417,600	Ramps
1.3.8.3	Reinforcing to Headstocks (assume 200kg/m3)	t	24.8	\$	2,800	\$	69,440	Ramps
1.3.9	Headstocks 700 x 2000							
1.3.9.1	Concrete to Headstocks	m3	34	\$	450	\$	15,300	Ramps
1.3.9.2	Form-work to Headstocks	m2	113	\$	900	\$	101,700	Ramps
1.3.9.3	Reinforcing to Headstocks (assume 200kg/m3)	t	6.8	\$	2,800	\$	19,040	Ramps
1.3.10	Headstocks 900 x 2000							
1.3.10.1	Concrete to Headstocks	m3	49	\$	450	\$	22,050	Ramps
1.3.10.2	Form-work to Headstocks	m2	133	\$	900	\$	119,700	Ramps
1.3.10.3	Reinforcing to Headstocks (assume 200kg/m3)	t	9.8	\$	2,800	\$	27,440	Ramps
1.3.11	Headstocks 1800 x 750 (Cantilever Arch)							
1.3.11.1	Concrete to Headstocks	m3	29	\$	450	\$	13,050	Ramps
1.3.11.2	Form-work to Headstocks	m2	92	\$	900	\$	82,800	Ramps
1.3.11.3	Reinforcing to Headstocks (assume 200kg/m3)	t	5.8	\$	2,800	\$	16,240	Ramps
1.3.12	Deck Slab							Ramps
1.3.12.1	500mm Thick Reinforced Concrete Deck Slab (assume 280kg/m3 with Permanent Pre-cast Panel Form-work)	m2	433	\$	1,162	\$	502,930	Ramps
1.3.12.2	700mm Thick Reinforced Concrete Deck Slab (assume 280kg/m3 with Permanent Pre-cast Panel Form-work)	m2	808	\$	1,450	\$	1,171,196	Ramps
1.3.12.3	Allowance for 1810 high x 265 - 476mm wide pre-cast concrete barrier	m	326	\$	1,750	\$	570,500	Ramps
1.3.12.4	Allowance for 60mm AC with Tack Coats	m2	1241	\$	41	\$	50,881	Ramps
1.3.13	Allowances (Sundries/Services)							
1.3.13.1	Signage/Line-marking & Fittings	m2	2849	\$	47	\$	134,629	Ramps
1.3.13.2	ICT, Electrical, Lighting & Security	m2	2849	\$	180	\$	514,039	Ramps
1.3.13.3	External Drainage Networks	m2	2849	\$	60	\$	171,346	Ramps
1.3.13.4	Service Relocations	m2	2849	\$	64	\$	183,585	Ramps
1.3.14	Hoist Tower							
1.3.14.1	750mm SHS Box Columns assume 25mm thick (4No. RL5.0 - RL26.7)	t	57	\$	12,000	\$	684,000	Ramps
1.3.14.2	750mm SHS Box Beams assume 25mm thick (2No. Around perimeter)	t	46.35	\$	12,000	\$	556,200	Ramps
1.3.14.3	Allowance for Access platforms and walkways etc.	Item	1	\$	250,000	\$	250,000	Ramps
1.3.15	Adjustable Ramp Structures (Deck 3, Deck 5 and Deck 7)	m2						
1.3.15.1	Allowance for Structural steel marine coated (approx. 650kg/m2 based on Market Feedback from other similar ramps) \$10,000/t allowance	t	650.65	\$	10,000	\$	6,506,500	Ramps
1.3.15.2	Allowance for lighting to ramp area	m2	1001	\$	100	\$	100,100	Ramps
1.3.15.3	Line-marking	m2	1001	\$	5	\$	5,005	Ramps
1.3.15.4	Allowance for hydraulics to ramps (each side on Deck 3)	No	5	\$	1,150,000	\$	5,750,000	Ramps
1.4	Pavement Works							
1.4.1	Full Depth Pavement - 200mm Asphalt (Red)							
1.4.1.1	Lower pavement layer assume 300mm thick cement treated crushed rock	m2	26421	\$	22	\$	581,262	Pavement Earthworks Services
1.4.1.2	Upper pavement layer assume 200mm thick cement treated crushed rock	m2	26421	\$	24	\$	634,104	Pavement Earthworks Services
1.4.1.3	Wearing course assume 100mm thick AC	m2	26421	\$	60	\$	1,585,260	Pavement Earthworks Services
1.4.1.4	Line-marking Allowance	m2	26421	\$	3	\$	66,053	Pavement Earthworks Services
1.4.1.5	Allowance for extra over drainage	m2	26421	\$	15	\$	396,315	Pavement Earthworks Services
1.4.1.6	Civil allowance for proposed weighbridge	Item	1	\$	200,000	\$	200,000	Pavement Earthworks Services
1.4.2	Full Depth Pavement - 100mm Asphalt (Orange)							
1.4.2.1	Pavement layer 500mm thick cement treated crushed rock	m2	14940	\$	60	\$	896,400	Pavement Earthworks Services
1.4.2.2	Wearing course assume 100mm thick AC	m2	14940	\$	60	\$	896,400	Pavement Earthworks Services
1.4.2.3	Line-marking Allowance	m2	14940	\$	3	\$	37,350	Pavement Earthworks Services
1.4.2.4	Allowance for extra over drainage	m2	14940	\$	15	\$	224,100	Pavement Earthworks Services
1.4.3	Overlay - 150mm (Purple)							
1.4.3.1	150mm AC overlay	m2	247	\$	90	\$	22,230	Pavement Earthworks Services
1.4.3.2	Line-marking	m2	247	\$	3	\$	618	Pavement Earthworks Services
1.4.4	Overlay - 50mm (Blue)							
1.4.4.1	Mill existing pavement to prepare for new overlay	m2	9191	\$	8	\$	73,528	Pavement Earthworks Services
1.4.4.2	50mm AC overlay	m2	9191	\$	36	\$	330,876	Pavement Earthworks Services
1.4.4.3	Line-marking	m2	9191	\$	3	\$	22,978	Pavement Earthworks Services
1.4.4.4	Lighting	m2	9191	\$	-	\$	0	Pavement Earthworks Services
1.4.5	Kerb and shoulder							
1.4.5.1	Kerb Type BK	m	1255	\$	65	\$	81,575	Pavement Earthworks Services
1.4.5.2	Kerb Type FK	m	40	\$	65	\$	2,600	Pavement Earthworks Services
1.4.5.3	Kerb Type KCS	m	529	\$	80	\$	42,320	Pavement Earthworks Services
1.4.5.4	650 wide x 50 thick sealed asphalt shoulder over compacted crushed rock layers	m	224	\$	131	\$	29,299	Pavement Earthworks Services
1.4.6	Channel							
1.4.6.1	1200 wide channel	m	262	\$	102	\$	26,724	Pavement Earthworks Services
1.4.6.2	300 wide Class B aluminium grated trench with pollutant trap outlets	m	224	\$	2,738	\$	613,280	Pavement Earthworks Services
1.4.7	Fencing and gates							
1.4.7.1	Security fencing - assumed 2400 high chain wire mesh including 3 rows of barb	m	1423	\$	110	\$	156,530	Pavement Earthworks Services
1.4.7.2	6000 wide security gate	No.	1	\$	5,000	\$	5,000	Pavement Earthworks Services
1.4.7.3	8000 wide security gate	No.	2	\$	6,000	\$	12,000	Pavement Earthworks Services
1.4.7.4	9000 wide security gate	No.	1	\$	8,000	\$	8,000	Pavement Earthworks Services
1.4.7.5	10,000 wide security gate	No.	1	\$	12,000	\$	12,000	Pavement Earthworks Services
1.4.7.6	20,000 wide security gate	No.	1	\$	15,000	\$	15,000	Pavement Earthworks Services
1.4.8	Miscellaneous							
1.4.8.1	C/W wheel stops to semi trailer/B-Double parking	No.	150	\$	350	\$	52,500	Pavement Earthworks Services
1.4.8.2	C/W wheel stops to crew parking	No.	55	\$	350	\$	19,250	Pavement Earthworks Services
1.4.8.3	C/W wheel stops to terminal parking	No.	52	\$	350	\$	18,200	Pavement Earthworks Services

1.4.8.4	C/W wheel stops to other parking	No.	14	\$	350	\$	4,900	Pavement Earthworks Services
1.5	Electrical Services							
1.5.1	Generators							
1.5.1.1	825kVA	No	1	\$	350,000	\$	350,000	Services
1.5.2	500A							
1.5.2.1	DB - LNG FACILITY	No	1	\$	45,000	\$	45,000	Services
1.5.3	2500A							
1.5.3.1	DB - TT LINE WHARF SHORE POWER	No	1	\$	130,000	\$	130,000	Services
1.6	Communications							
1.6.1	Cables							
1.6.1.1	NBN communications cable; CAT 6A nominal	m	558	\$	20	\$	11,160	Services
1.6.1.1	Substation metering cable; CAT 6A	m	300	\$	20	\$	6,000	Services

BERTH 3 Sub-Total							\$	40,312,755
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2	Berth 1/2							
2.0.1	Relocation items					\$	207,141	Buildings

BERTH 2 Sub-Total							\$	207,141
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2	PROJECT OVERHEADS							
2.1	ECI Phase Contractor Fees							
2.0.1.1	Allowance for Preliminaries	Of	1	\$	263,037	\$	263,037	
2.1	ECI Design Fees (Investigation & Schematic Design)							
2.1.1.2	Allowance for Preliminaries	%	1.50%	\$	40,519,896	\$	607,798	
2.2	ECI Preliminaries							
2.1.1.2	Allowance for Preliminaries	Proportion	1	\$	7,493,104	\$	7,493,104	
2.2	ECI Detailed Design & Certification Fees							
2.2.1.2	ECI Detailed Design & Certification Fees	%	3.50%	\$	40,519,896	\$	1,418,196	
2.3	ECI Margin							
2.2.1.2	ECI Margin	%	8.00%	\$	50,302,031	\$	4,024,163	
2.3	TasPorts Internal Costs							
2.3.1.2	TasPorts Internal Costs	%	2.50%	\$	54,047,799	\$	1,272,687	
2.4	Consultant Fees							
2.3.1.2	Design Certification	%	1.50%	\$	54,047,799	\$	810,717	
2.4.1.1	Project Management	%	2%	\$	54,047,799	\$	1,080,956	
2.3.1.3	Other Consultants (Programme, QS, OHS, Environment, Asset Management, Risk management advice etc.)	%	2%	\$	54,047,799	\$	1,080,956	

Project Overheads Sub-Total							\$	18,051,614
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3	BUILDINGS AND FACILITIES FOR TT-LINE BERTH 3							
2.4	Demolition and Making Good							
3.0.1	Demolish and cart away							
2.4.1.1	Covered walkway	m2	390	\$	75	\$	29,250	Buildings
3.0.1.1	Terminal Building [2 levels]	m2	2,130	\$	135	\$	287,550	Buildings
2.4.1.2	Freight Office	m2	230	\$	90	\$	20,700	Buildings
3.0.1.2	Stevedores Office	m2	180	\$	90	\$	16,200	Buildings
2.4.1.3	Vehicle check in booth	m2	240	\$	90	\$	21,600	Buildings
3.0.1.3	Security Screening Shed	m2	370	\$	90	\$	33,300	Buildings
2.4.1.4	Wash Bay	m2	85	\$	59	\$	5,050	Buildings
3.0.1.4	Gatehouse	m2	15	\$	90	\$	1,350	Buildings
2.4.1.5	Removal of contaminated materials excluded	note						
2.4.2	Making good							
3.0.1.5	Remove foundations if required and make good	m2	2,550	\$	100	\$	255,000	Buildings
3.1	Freight Entry Gatehouse							
2.4.2.2	Substructure	m2	20	\$	250	\$	5,000	Buildings
3.1.1.1	Roof	m2	20	\$	200	\$	4,000	Buildings
2.4.2.3	External Walls	m2	72	\$	366	\$	26,380	Buildings
3.1.1.2	Windows	m2	10	\$	650	\$	6,500	Buildings
2.4.2.4	External Doors	no	1	\$	1,500	\$	1,500	Buildings
3.1.1.3	Wall Finishes	m2	72	\$	38	\$	2,719	Buildings
2.4.2.5	Floor Finishes	m2	20	\$	75	\$	1,500	Buildings
3.1.1.4	Ceiling finishes	m2	20	\$	90	\$	1,800	Buildings
2.4.2.6	Fittings	item	1	\$	6,000	\$	6,000	Buildings
3.1.1.5	Mechanical Services	m2	20	\$	180	\$	3,600	Buildings
2.4.2.7	Fire protection services	m2	20	\$	50	\$	1,000	Buildings
3.1.1.6	Electrical Services	m2	20	\$	250	\$	5,000	Buildings
3.2	Overhead Walkways							
2.4.2.8	Substructure	m2	590	\$	96	\$	56,540	Buildings
3.2.1.1	Columns	m2	590	\$	200	\$	118,000	Buildings
2.4.2.9	Upper Floors	m2	590	\$	450	\$	265,500	Buildings
3.2.1.2	Roof	m2	590	\$	200	\$	118,000	Buildings
2.4.2.10	External Walls	m2	1,416	\$	650	\$	920,400	Buildings
3.2.1.3	Wall Finishes	m2	1,416	\$	35	\$	49,560	Buildings
2.4.2.11	Floor Finishes	m2	1,180	\$	75	\$	88,500	Buildings
3.2.1.4	Ceiling finishes	m2	1,180	\$	90	\$	106,200	Buildings
2.4.2.12	Fire protection services	m2	1,180	\$	35	\$	41,300	Buildings
3.2.1.5	Electrical Services	m2	1,180	\$	200	\$	236,000	Buildings
2.4.2.13	Extra over for height adjustable connection arm to SPOT vessel [walkway 2]	item	1	\$	1,000,000	\$	1,000,000	Buildings

2.5 Terminal Building						
3.2.1.6	Substructure	m2	700	\$ 250	\$ 175,000	Buildings
2.5.1.1	Columns	m2	1,400	\$ 60	\$ 84,000	Buildings
3.2.1.7	Upper Floors	m2	700	\$ 350	\$ 245,000	Buildings
2.5.1.2	Staircases	mrn	25	\$ 1,650	\$ 41,250	Buildings
3.2.1.8	Roof	m2	840	\$ 350	\$ 294,000	Buildings
2.5.1.3	External Walls	m2	880	\$ 950	\$ 836,000	Buildings
3.2.1.9	External Doors	sets	4	\$ 12,000	\$ 48,000	Buildings
2.5.1.4	Internal walls	m2	420	\$ 150	\$ 63,000	Buildings
3.2.1.10	Internal Screens	m2	100	\$ 650	\$ 65,000	Buildings
2.5.1.5	Internal Doors	no	20	\$ 650	\$ 13,000	Buildings
3.2.1.11	Wall Finishes	m2	1,720	\$ 100	\$ 172,000	Buildings
2.5.1.6	Floor Finishes	m2	1,400	\$ 250	\$ 350,000	Buildings
3.2.1.12	Ceiling finishes	m2	1,400	\$ 180	\$ 252,000	Buildings
2.5.1.7	Fitments	item	1	\$ 50,000	\$ 50,000	Buildings
3.2.1.13	Sanitary Fixtures	no	30	\$ 1,000	\$ 30,000	Buildings
2.5.1.8	Sanitary Plumbing	fixt	30	\$ 1,500	\$ 45,000	Buildings
3.2.1.14	Water Supply	fixt	30	\$ 1,192	\$ 35,750	Buildings
2.5.1.9	Mechanical Services	m2	1,400	\$ 350	\$ 490,000	Buildings
3.2.1.15	Fire protection services	m2	1,400	\$ 65	\$ 91,000	Buildings
2.5.1.10	Electrical Services	m2	1,400	\$ 300	\$ 420,000	Buildings
3.2.1.16	Transportation system	sets	3	\$ 300,000	\$ 900,000	Buildings
2.5.1.11	Extra over for piled foundations [if required]	m2	700	\$ 643	\$ 450,000	Buildings
2.6 Passenger Check In Booths (x4)						
3.2.1.17	Substructure	m2	195	\$ 250	\$ 48,750	Buildings
2.6.1.1	Roof	m2	293	\$ 200	\$ 58,500	Buildings
3.2.1.18	External Walls	m2	288	\$ 366	\$ 105,520	Buildings
2.6.1.2	Windows	m2	40	\$ 650	\$ 26,000	Buildings
3.2.1.19	External Doors	no	1	\$ 1,500	\$ 1,500	Buildings
2.6.1.3	Wall Finishes	m2	288	\$ 28	\$ 7,955	Buildings
3.2.1.20	Floor Finishes	m2	195	\$ 75	\$ 14,625	Buildings
2.6.1.4	Ceiling finishes	m2	195	\$ 90	\$ 17,550	Buildings
3.2.1.21	Fitments	item	1	\$ 16,000	\$ 16,000	Buildings
2.6.1.5	Mechanical Services	m2	195	\$ 180	\$ 35,100	Buildings
3.2.1.22	Fire protection services	m2	195	\$ 50	\$ 9,750	Buildings
2.6.1.6	Electrical Services	m2	195	\$ 250	\$ 48,750	Buildings
2.7 Mort bike Shelter						
3.2.1.23	Substructure	m2	125	\$ 200	\$ 25,000	Buildings
2.7.1.1	Columns	m2	125	\$ 51	\$ 6,375	Buildings
3.2.1.24	Roof	m2	125	\$ 180	\$ 22,500	Buildings
2.7.1.2	External Walls	m2	140	\$ 200	\$ 28,000	Buildings
3.2.1.25	Fire protection services	m2	125	\$ 35	\$ 4,375	Buildings
2.7.1.3	Electrical Services	m2	125	\$ 110	\$ 13,750	Buildings
2.8 Weighbridge						
3.2.1.26	Weighbridge [assumed 120,000 kg calibrated capacity]	no	1	\$ 150,000	\$ 150,000	Buildings
2.8.1.1	Civil works - foundations , pit , kerbs etc.	item	1	\$ 60,000	\$ 60,000	Buildings
3.2.1.27	Allowance for data management system	item	1	\$ 110,000	\$ 110,000	Buildings
2.8.1.2	Allowance for weighbridge office - taken similar to gatehouse	m2	20	\$ 3,250	\$ 65,000	Buildings
2.9 Security Screening Shed						
3.2.1.28	Substructure	m2	640	\$ 200	\$ 128,000	Buildings
2.9.1.1	Columns	m2	640	\$ 31	\$ 20,000	Buildings
3.2.1.29	Roof	m2	640	\$ 180	\$ 115,200	Buildings
2.9.1.2	External Walls	m2	320	\$ 200	\$ 64,000	Buildings
3.2.1.30	Fire protection services	m2	640	\$ 35	\$ 22,400	Buildings
2.9.1.3	Electrical Services	m2	640	\$ 110	\$ 70,400	Buildings
2.10 Quarantine, Washbay & Firearms Collection						
3.2.1.31	Substructure	m2	420	\$ 200	\$ 84,000	Buildings
2.10.1.1	Columns	m2	420	\$ 49	\$ 20,500	Buildings
3.2.1.32	Roof	m2	420	\$ 180	\$ 75,600	Buildings
2.10.1.2	External Walls	m2	320	\$ 200	\$ 64,000	Buildings
3.2.1.33	Special Equipment - wash bay	no	2	\$ 10,000	\$ 20,000	Buildings
2.10.1.3	Fire protection services	m2	420	\$ 35	\$ 14,700	Buildings
3.2.1.34	Electrical Services	m2	420	\$ 110	\$ 46,200	Buildings
2.10.1.4	Allowance for office - taken similar to gatehouse	m2	20	\$ 3,250	\$ 65,000	Buildings
3.2.1.35	Allowance for firearm storage area	item	1	\$ 10,000	\$ 10,000	Buildings
3.3 Preliminaries						
2.10.1.5	Preliminaries, off site overheads and margin [13%]	%	13%	\$ 10,579,999	\$ 1,375,400	Buildings

BUILDINGS AND FACILITIES FOR TT-LINE BERTH 3 Sub-Total	\$ 11,955,399
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CAPEX Sub-Total	\$ 70,526,909
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4 CONTINGENCY						
2.11 Contingency Allowances						
4.0.1.1	Contingency for TT-Line	%	10%	\$ 58,571,510	\$ 5,857,151	
2.11.1.1	Contingency for TT-Line Building Works	%	10%	\$ 11,955,399	\$ 1,195,540	
CONTINGENCY Sub-Total					\$ 7,052,691	

PROJECT TOTAL	\$ 77,579,600
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