

Republic of Sierra Leome Ministry of Fisheries and Marine Resources Sierra Leone

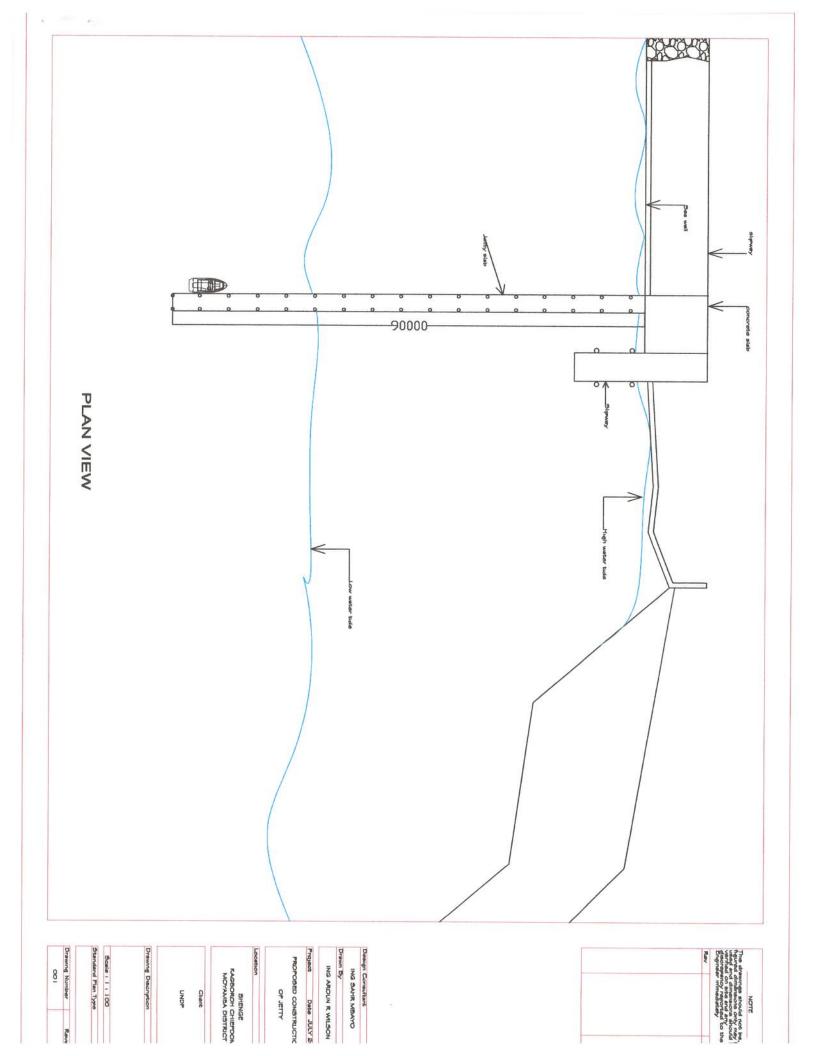


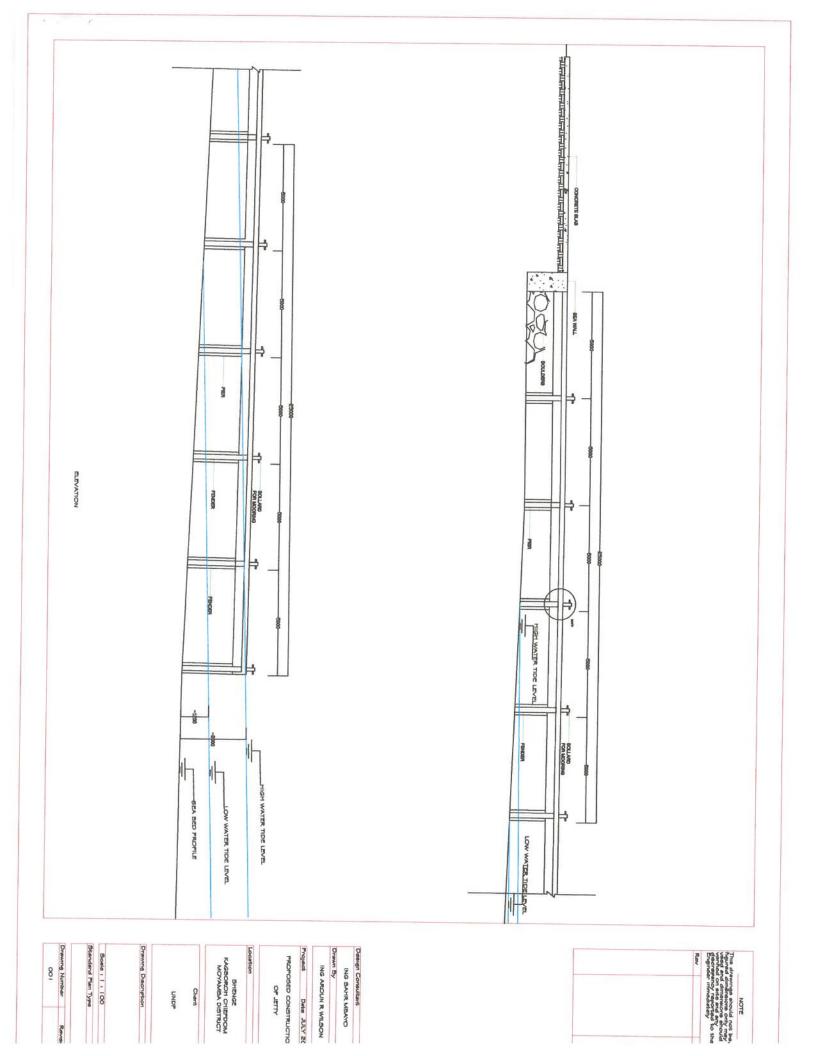
United Nation Development Program Wilberforce Freetown, Sierra Leone

DRAWINGS

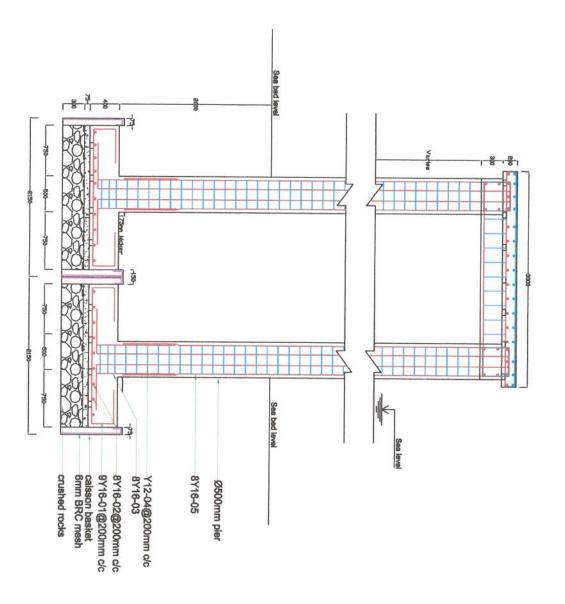
Submitted by UNDP'S Indepedent Consultant Civil Engineer Freetown Sierra Leone

July 2019





SECTION X-X



Design Consultant

ING SAHR MBAYO
Drawn By
ING AROUN R WILSON
ROJSCE Data JULY 2:
FROPOSED CONSTRUCTIC
OF JETTY
Location
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Scale : 1 : 100 Standard Plan Type

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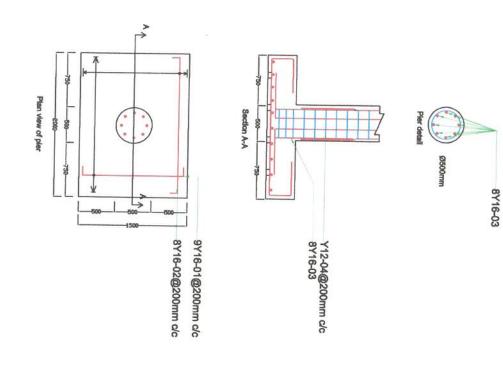
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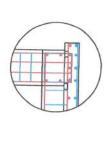


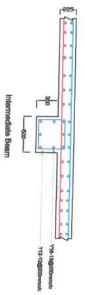
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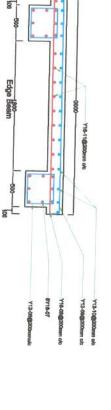
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PROPOSI	Project	ING A	Drawn By	ING B	Design Consultant											
PROPOSED CONSTRUCTION	Date JULY 20	ING AROUN R WILSON		ING BAHR MBAYO	bultant											

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	Ravisio						NGE CHIEFDOM DISTRICT		7	CONSTRUCTION	Date JULY 20	ROUN R WILSON		MEANO	e



item	Description	Units	Quantity	Unit Rate	Amount
No				(Le)	(Le)
1.00	PRELIMINARIES				
1.01	Mobilization of all Plants and equipment to				
	start work	Lump Sum	1		
1.02	Provision of Costs incurred in obtaining all				
	bonds, insurances for all plants and equipment,			1	
	contractor's staff and other third parties	Lump Sum	1		
1.03	Provision of Signboard (No 1: Size, 1200 mm				
	wide x 1500mm high	Lump Sum	1	:	
1.04	Provision of progress photographs , both				
	underwater and surface photos) at the end of			1	
	every two working weeks	Lump Sum	1		
1.05	Demobilization: Removal of all equipment and				
	other resources belonging to the contractor		[
	including cleaning the site completely	Lump Sum	1		
	Preliminaries carried to summary			<u> </u>	
2.00	SITE PREPARATION AND SETTING UP				1071-H
2.01	Underwater survey and setting out works	lump sum	1		
2.02	Demolish the old jetty and use the broken			1	
	concrete to strenghten the foundation of the		l		
	new jetty	lump sum	1		
2.03	Setting up Contractor's work yards and temporary				
	site office	Lump Sum	1		
	Site Preparation and setting up carried to summary				···

Item	Description	Units	Quantity	Unit Rate	Amount
No			 	(Le)	(Le)
3.00	JETTY'S SUBSTRUCTURE WORKS				
	2.0m X 1.5m x 1.0m deep reinforced concrete				
	(1:2:4 mix) caisson 75mm thick				
					į
3.01	Formwork for construction the rectangular caisson	m²	555		
3.02	Reinforcement for caissons with 6mm mild steel				
	mesh	tonne	1.65		
3.03	Precast concrete caisson in 1:2:4: concrete mix				
	aggregate 3-8mm and concrere seals . Prescribed				
	mix 40N/mm2 grade, cement to BS 12, 2000mm,				
	75mm thick and 1000mm high	m ³	24		
3.04	Sinking caissons below seabed to a depth not less				
	than 2m	m	76		
3.05	Excavating soft material within the depth range of		:		
	2m below seabed	m ³	473	·	
3.06	Extra over excavation in hard materials within the			:	
	depth of 2m	m ³	77		
3.07	Filling in of caissons with 30 - 40 mm diamter				
	crushed rock bedding and compacting to the depth	:			
	of 400mm	m ³	50		
3.08	Cast in-situ concrete in mormal mix 1:2:4 -12mm				
	agggregates . Thickness of concrete 500mm	m ³	57		
3.09	16mm θ high yield reinforced bars in caissons				
	as starter bars to receive pile rebars	tonne	1.8		
3.1	12mm θ high yield bars as stirrups	tonne	0.7		
	Subtotal Jetty substructure works B/D				

Item	Description	Units	Quantity	Unit Rate	Amount
No	Filtral State and the state an		ļ	(Le)	(Le)
	Subtotal of jetty substructure works B/F				-
3.10	REINFORCED CONCRETE WORKS ON PIERS (Deck Support)				
0.10	500mme, 75mm thick precast reinforced concrete				
	caisson				
3.11	Formwork for constructing the caissons	m ²	500	•	
	_				
3.12	Reinforcement for caissons with 6mm mild steel				
	mesh	tonne	0.6		
				:	
3.13	Precast concrete caisson in 1:2:4: concrete mix	:			
	aggregate 3-8mm and concrere seals . Prescribed				
	mix 40N/mm2 grade, cement to BS 12, 500mm0				
	75mm thick and 1000mm high	m ³	23	;	
3.14	Installation of (500mm⊖ , 75mm thick caisson from				
	seabed to the underside of the jetty beams	m	68		
3.15	Reinforced concrete fill, (1:2:4 mix -12mm aggregates)				
	in 500mm Θ , 75mm thick caisson	m³	32		
	The state of the s	-	32		
3.16	16mm θ high yield steel bars in caisson with pier	-		j	
	starter bars	tonne	3		:
3.17	12mm Θ high yield bars as stirrups	tonne	1.2		
				1	
	Total jetty substructure works carried to summary				
4.00	JETTY SUPERSTRUCTURE WORKS			[-
	Reinforced concrete cast in-situ concrete 1:2:4 mix				
	10mm aggregates, cement to BS 12				
4.01	Walkway slab to Jetty head	m ³	65	[
	Edge Beams	m ³	32		
	Intermediate beams	m ³	9		
	Rectangular cross-beams at 10 m interval	m³	5		
	Jetty Superstructure works B/D				

item	Description	Units	Quantity	Unit Rate	Amount
No			.].	(Le)	(Le)
	Jetty Superstructure works B/f				~
	High yield steel reinforcement bent straight or hook				
	complete with all spaces , distance blocks and				
	bracing wire to the following	1			
4.05	12mm θ top steel bar in Walkway slab to Jetty head	tonne	2.3		
4.06	16mm θ bottom steel bars in Walkway slab to jetty head	tonne	3.5		
4.07	16mm θ steel bars in Edge beams	tonne	3.8		
4.08	12mm θ steel bars as stirrups/links in Edge beams	tonne	2.5		
4.09	16mm 8 steel bars in intermediate beams	tonne	0.9		
4.10	16mm θ steel bars in cross beams at 10m interval	tonne	0.4		
4.11	12mm Θ steel bars as stirrups/links intermediate				
	and Cross-beams at 10 m interval	tonne	1.2		
	Formwork to provide Class F3 surface finish to the				
	following	1			
4.12	Walkway slab to Jetty head	m ²	365	-	
4.13	Edge beams	m ²	208		
4.14	intermediate beams and Cross-beams at 10m interval	m ²	108		
	FENDERING SYSTEMS				
		:			
4.15	Provide and install 250mm x 250mm x 6mm equal				
	structural steel I-section complying with the				
	requirement of BS EN 10025 attached horizontally to				
	piers(Piles) along the jetty faces to receive vertical				
	energy-aborbing timber fenders - unit weight 7.0 Kg/m	m	90		
4.16	Provide and install energy-absorbing hardwood timber				
4.10	(200mm x 200mm) fenders fixed securely to		}		
			1		
	horizontal receiving steel I-beams by gavanized steel bolts and nuts		1 00		
	poits and nuts	m	90		
4.17	Provide 100mm thick synthetic rubber (from old truck				
	tyres or conveyor belts) and fix on the berthing inpsact				
	faces of timber fender with				
	bolted on the jetty piers	m	90		
	Jetty Superstructure Works B/D				

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Description	Units	Quantity	Unit Rate	Amount (Le)
SUMMARY				
Preliminaries				
Site Preparation and Setting up				
Jetty Substructure works				
Jetty superstructure			}	
Subtotal				
Contingency 10%				
TOTAL CONSTRUCTION COST				
	SUMMARY Preliminaries Site Preparation and Setting up Jetty Substructure works Jetty superstructure Subtotal Contingency 10%	SUMMARY Preliminaries Site Preparation and Setting up Jetty Substructure works Jetty superstructure Subtotal Contingency 10%	SUMMARY Preliminaries Site Preparation and Setting up Jetty Substructure works Jetty superstructure Subtotal Contingency 10%	SUMMARY Preliminaries Site Preparation and Setting up Jetty Substructure works Jetty superstructure Subtotal Contingency 10%

In words:	