

**Form of Tender Contract Package 1 - Repair to Wharf Substructure Components**

Item	Description	Class of Labour, Materials, Plant and/or Equip.	Quantity	Unit	Unit Price	Amount
1	Mobilization & Demobilization		1	LS		
<b>1.0 Lions Gate Dock Repairs</b>						
1.1	Replace Cap and Install New Posts on CIP Sonatube Footings		1	LS		
1.2	Fresh Head and Install Corbel		1	LS		
1.3	Fresh Head and Install Double Corbel		1	LS		
1.4	Install Steel Bands		2	Each		
						<b>Subtotal</b>
<b>2.0 Lions Gate Dock Concrete Beam Repair</b>						
2.1	Option A - not jacking the beam					
2.1.1	Investigation, Survey, and Corbel Shop Drawing Preparation		1	LS		
2.1.2	Corbel Material Supply and Fabrication		1	LS		
2.1.3	Corbel Shipping and Erection		1	LS		
2.1.4	Removal of Cracked concrete and corrosion damaged rebar		1	LS		
2.1.5	Repair interface preparation		1	LS		
2.1.6	Replacement of corroded rebar		1	LS		
2.1.7	Forming and grouting for repair		1	LS		
						<b>Subtotal</b>
2.2	Option B - jacking the beam					
2.2.1	Investigation, Survey, and Corbel Shop Drawing Preparation		1	LS		
2.2.2	Corbel Material Supply and Fabrication		1	LS		
2.2.3	Corbel Shipping and Erection		1	LS		
2.2.4	Removal of Cracked concrete and corrosion damaged rebar		1	LS		
2.2.5	Repair interface preparation		1	LS		
2.2.6	Replacement of corroded rebar		1	LS		
2.2.7	Forming and grouting for repair		1	LS		
						<b>Subtotal</b>
2.3	<i>Provisional Item</i>					
2.3.1	Concrete beam repair crack injection		1	LS		
<b>3.0 Bridges Dock</b>						
3.1	Install Channel Patch		1	LS		
3.2	Move Large Boulder, Install Steel Angle Brackets w/ Lag Bolts to Prevent Shifting		1	LS		
3.3	Install Steel Bands		7	Each		
3.4	Fill Undermined Concrete Abutment w/ CIP Concrete		1	LS		
						<b>Subtotal</b>
<b>4.0 West Dock</b>						
4.1	Install Treated Timber Shims		1	LS		
4.2	Install Steel Bands		11	Each		
4.3	Pile/cap connection		1	Each		
4.4	Fresh Head and Install Double Corbel		2	Each		
4.5	Replace Pile		5	Each		
						<b>Subtotal</b>
<b>5.0 Public Market Wharf and Trestle</b>						
5.1	Install Steel Bands		1	LS		
5.2	Fill Undermined Concrete Abutment w/ CIP Concrete		1	LS		
5.3	Fresh Head and Install Additional Corbel		1	LS		
						<b>Subtotal</b>

6.0 Public Market Boardwalk and Sheet Pile Walls						
6.1	Replace Pedestals		1	LS		
6.2	Restore Riprap Slope Protection in Front of Boardwalk		30	sq.m		
6.3	Restore Riprap Slope Protection in Front of Stairs		6	sq.m		
<b>Subtotal</b>						
7.0 Northeast Seawall and Boardwalk						
7.1	Install Steel Plate Patch - Pile 79		1	LS		
7.2	Install Steel Plate Patch Pile - 106		1	LS		
<b>Subtotal</b>						
8.0 Pelican Bay Marina Boardwalk Removal						
8.1	Boardwalk Removal		1	LS		
8.2	Lentil Sign Relocation		1	LS		
<b>Subtotal</b>						
9.0 Cathodic Protection						
9.1	Cathodic Protection of All Outboard Pipe Piles		165	Each		
<b>Subtotal</b>						
10.0 Maritime Market Boardwalk						
10.1	Remove riprap and fill that is in conflict with existing dock.		35	cu.m		
<b>Subtotal</b>						
<b>Subtotal Repairs, using Option A for Lions Gate Beam Repair</b>						
<b>Subtotal Repairs, using Option B for Lions Gate Beam Repair</b>						
<b>Contingency (15%) Option A</b>						
<b>Contingency (15%) Option B</b>						
<b>Total - Option A</b>						
<b>Total - Option B</b>						
<b>Total - Provisional Items</b>						