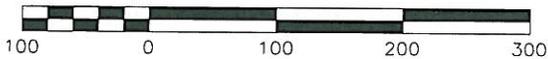


CONCRETE RAMP WITH  
MOORING BOLLARDS

**Order Of Magnitude Cost Estimate (Ramp, Bollards, Site Improvement)**

Item	Units	Unit Cost	Quantity	Total Cost
Concrete Landing Ramp	SF	\$100	4600	\$460,000
Filter Rock (Beneath Ramp)	CY	\$100	350	\$35,000
Mooring Bollards	EA	\$15,000	4	\$60,000
Staging Area Improvements	LS	\$25,000	1	\$25,000
Power Extension and Lighting	LS	\$12,000	1	\$12,000
Mob/Demob	LS		1	\$59,200
Design, CA, Geotechnical, Survey	LS			\$59,200
Administration	LS			\$59,200
			<b>Total</b>	<b>\$769,600</b>

SCALE IN FEET



PND Engineers, Inc. is not responsible for safety programs, methods or procedures of operation, or the construction of the design shown on these drawings. Where specifications are general or not called out, the specifications shall conform to standards of industry. Drawings are for use on this project only and are not intended for reuse without written approval from PND. Drawings are also not to be used in any manner that would constitute a detriment directly or indirectly to PND.

REV	DATE	DESCRIPTION

DATE: \_\_\_\_\_

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**LAKE ILIAMNA MULTIPLE COMMUNITY  
BARGE LANDING DESIGN PROJECT**

**PILE BAY  
BARGE LANDING**

DESIGNED BY:	PK	DATE:	12/24/08
CHECKED BY:	XXX	PROJECT NO.:	081090