1	APPENDIX A: CLASS C COST ESTIMATE AND PHASING FOR
2	THE PREFERRED ALTERNATIVE

3

CLASS C COST ESTIMATE

2

Class C Construction Cost Estimate

Project: Light Stations of Michigan, Outer, Devils, Long & Sand Islands

Park: Apostle Islands National Lakeshore

PMIS: 154596

Preferred Alternative

Basis of Estimate

Date of Estimate: March 4, 2011

Estimated By: Parametrix, Inc.

7186 South Highland Drive #200

Salt Lake City, Utah (801) 733-5900

Supporting Material: Design Team Narrative & Matrices

Site Concept Plans

Historic Drawings & Photographs Site Estimate - Per Landscape Architect Hazmat Estimate - Per Consultant

Cost Data: Parametrix National Cost Data Base - 2011

Mark-ups and Add-ons: Published Location Factor: Apostle Islands National Lakeshore - Bayfield, Wisconsin -

Negative 5.3 Percent. **Project Remoteness:**

Michigan Island, 17 Miles - 20 Percent. Outer Island, 32 Miles - 25 Percent. Devils Island, 23 Miles - 20 Percent. Long Island, 6 Miles - 20 Percent. Sand Island, 19 Miles - 20 Percent.

Federal Wage Rate Factor: Included in Labor Costs - 7.5 Percent.

Design Contingency: Concept Documents - 20 Percent

Taxes: Sales Tax Included in Costs - 5.5 Percent.

Standard General Conditions: Remote Location - 14 Percent.

Government General Conditions: Remote Location - 8 Percent.

Panda and Pannita No Pannit Conta Panda 0 Percent.

Bonds and Permits: No Permit Costs. Bond - 2 Percent.

Historic Preservation Factor: 15 Percent.

Overhead: Medium Size Project - 10 Percent.

Profit: Medium Size Project - 10 Percent.

Contracting Method Adjustment: Early Indication is that Construction Contract

will be Pre-Qualified Open Competitive - 5 Percent.

Inflation Escalation: Assume Start of Construction to be May 2012.

18 Month Construction Period. Inflation Predictions Indicate 4 Percent per year.

Comments: Class C Construction Cost Estimate Based on;

Design Team Narrative & Matrices

Site Concept Plans

Historic Drawings & Photographs Site Estimate - Per Landscape Architect Hazmat Estimate - Per Consultant

Cost Estimate Includes Logistics to the Various Sites.

Material, Labor & Equipment (Including Waste) will Require Boat Transportation & Docking.

Cost Estimate Includes Weather Delays and a Seasonal Construction Time Frame.

Park: Apostle Islands National Lakeshore

PMIS: 154596

MACTED CUMBARN

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

Item Description	Direct Cost	Total Net
Decemption	Direct Goot	101011101
MICHIGAN ISLAND	\$894,124	\$2,322,94
OUTER ISLAND	\$446,878	\$1,202,923
DEVILO 101 AND	\$750.000	****
DEVILS ISLAND	\$750,032	\$1,948,594
LONG ISLAND	\$538,468	\$1,398,94
SAND ISLAND	\$269,115	\$699,164
TOTAL	\$2,898,616	\$7,572,574

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

Date: March 4, 2011

SUMMARY - MICHIGAN ISLAND

Item	Description	Direct Cost	Total Net
	MICHICAN ICLAND C'A INCOME	*	* 070 705
	MICHIGAN ISLAND - Site Improvements	\$104,220	\$270,765
	MICHIGAN ISLAND - Old Michigan Island Lighthouse	\$280,867	\$729,698
	MICHIGAN ISLAND - Second Tower	\$54,524	\$141,655
	MICHIGAN ISLAND - Keepers Quarters	\$226,232	\$587,754
	MICHIGAN ISLAND - Assistant Keepers Quarters & Workshop	\$83,016	\$215,678
	MICHIGAN ISLAND - Power House	\$96,428	\$250,521
	MICHIGAN ISLAND - Shed	\$42,652	\$110,811
	MICHIGAN ISLAND - Privy	\$6,183	\$16,064
	TOTAL (Michigan Island)	\$894,124	\$2,322,946
		1	

Park: Apostle Islands National Lakeshore

PMIS: 154596

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Item	IGAN ISLAND - Site Improvements Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	= •••···					
	SITE IMPROVEMENTS - Cost Per Consultant					
	Site Clearing, 4 Acres	1	LS	\$28,200	\$28,200	\$73,26
	Site Circulation / Accessibility	1	LS	\$36,245	\$36,245	\$94,16
	Site Structures	1	LS	\$7,500	\$7,500	\$19,48
	Small Scale Site Features	1	LS	\$3,000	\$3,000	\$7,79
	Station Vegetation	1	LS	\$29,275	\$29,275	\$76,05
					\$104,220	\$270,76
	Subtotal Direct Construction Costs				\$104,220	\$270,76
	Published Location Factor (Negative 5.3 Percent)				-\$5,524	
	Remoteness Factor (20 Percent)				\$20,844	
	Federal Wage Rate Factor (7.5 Percent)				\$3,908	
	Design Contingency (20 Percent)				\$20,844	
	Total Direct Construction Costs				\$144,293	
	Standard General Conditions (14 Percent)				\$20,201	
	Government General Conditions (8 Percent)				\$11,543	
	Bond (2 Percent)				\$2,886	
	Historic Preservation Factor (15 Percent)				\$21,644	
	Subtotal NET Construction Cost				\$200,567	
	Overhead (10 Percent)				\$20,057	
	Profit (10 Percent)				\$20,057	
	Estimated NET Construction Cost				\$240,680	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$12,034	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 - '	7.5 Perd	cent)	\$18,051	
	Total Estimated NET Cost of Construction				\$270,765	

Park: Apostle Islands National Lakeshore

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Item	IGAN ISLAND - Old Michigan Island Lighthouse Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
пеш	Description	Quantity	Offic	COSI/OTIIL	Direct Cost	Total Net
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	,			0000010	4000.00
	Cost Per Consultant	1	LS	\$90,043	\$90,043	\$233,933
	Remove Roofing, Shingles	1,459	SF	\$3.21	\$4,683	\$12,16
	Remove Finishes - Floor, Wall & Ceiling	2,154	SF	\$2.68	\$5,773	\$14,99
					\$100,499	\$261,09
	ARCHITECTURAL					
	AROTHEOTORAL					
	Exterior Wall - Repair Plaster, Repoint Masonry	3,389	SF	\$7.49	\$25,384	\$65,94 ⁻
	Exterior Wall, Coat Masonry	3,389	SF	\$2.14	\$7,252	\$18,84
	Exterior Wall, Remove & Replace Wood Shingles	8	SF	\$26.75	\$214	\$55
	Modify Wall - Enlarge Door Opening	1	EA	\$1,873	\$1,873	\$4,86
	Exterior Stairs	11	SF	\$64.20	\$706	\$1,83
	Millwork, Refinish Existing	15	LF	\$160.50	\$2,408	\$6,25
	Handrails	86	LF	\$96.30	\$8,282	\$21,51
	Security Gate	1	EA	\$1,391	\$1,391	\$3,61
	Roofing, Asphalt Shingles, Felt & Flashings	1,459	SF	\$6.96	\$10,155	\$26,38
	Raingutter & Downspouts	120	LF	\$48.15	\$5,778	\$15,01
	Windows, New Glazing	55	SF	\$58.85	\$3,237	\$8,40
	Windows, Reinstall Glazing	164	SF	\$19.26	\$3,159	\$8,20
	Windows, Paint Frame & Sash	219	SF	\$23.54	\$5,155	\$13,39
	Door, Refinish & Replace Hardware - Existing	15	LEAF	\$749.00	\$11,235	\$29,18
	Wood Flooring, Refinish Original	3,628	SF	\$5.35	\$19,410	\$50,42
	Paint, Tower Roof & Trim	50	SF	\$6.42	\$321	\$83
	Paint & Repair Plaster, Interior Wall & Ceiling	5,106	SF	\$4.28	\$21,854	\$56,77
	Paint, Miscellaneous Items	1	LS	\$2,000	\$2,000	\$5,19
					\$129,812	\$337,25
	STRUCTURAL					
	Floor Structure, Reinforce Existing	62	SF	\$37.45	\$2,322	\$6,03
	Roof Structure, Reinforce Existing	55	SF	\$32.10	\$1,766	\$4,58
					\$4,087	\$10,619

Park: Apostle Islands National Lakeshore

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Reviewed By: Parametrix, Inc.

m	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL					
	Remove Plumbing Fixtures & Piping	2	EA	\$802.50	\$1,605	\$4,1
	Remove Boiler & Piping	1	EA	\$2,675	\$2,675	\$6,9
	Remove Radiators	2	EA	\$642.00	\$1,284	\$3,
_	HVAC, Increase Ventilation	2,154	SF	\$9.10	\$19,601	\$50,9
	TV/TG, ITIOIGGGG VOTALIGATOT	2,101		ψοιτο	\$25,165	\$65,
	ELECTRICAL					
	Remove Light Fixtures	10	EA	\$69.55	\$696	\$1,
	Remove Receptacles	10	EA	\$53.50	\$535	\$1,
	Replace Lightning Protection System	1,459	SF	\$4.28	\$6,245	\$16,
	Photovoltaic System (Ventilation)	2,154	SF	\$6.42	\$13,829	\$35
					\$21,304	\$55 ,
	Subtotal Direct Construction Costs				\$280,867	\$729,
	Published Location Factor (Negative 5.3 Percent)				-\$14,886	
_	Remoteness Factor (20 Percent)				\$56,173	
	Federal Wage Rate Factor (7.5 Percent)				\$10,533	
	Design Contingency (20 Percent)				\$56,173	
	Total Direct Construction Costs				\$388,861	
	Standard General Conditions (14 Percent)				\$54,441	
	Government General Conditions (8 Percent)				\$31,109	
	Bond (2 Percent)				\$7,777	
	Historic Preservation Factor (15 Percent)				\$58,329	
	Subtotal NET Construction Cost				\$540,517	
_	Overhead (10 Percent)			 	\$54,052	
	Profit (10 Percent) Estimated NET Construction Cost				\$54,052 \$648,620	
	Contracting Method Adjustment (Pre-Qualified Open Compe	stitivo 5 Do	orcont)		\$32,431	
	Inflation Escalation (22 Months to Midpoint of Construction, a			ent)	\$48,647	
	(== :::::::::::::::::::::::::::::::::::			- ''/	+ . 5, 5	

Park: Apostle Islands National Lakeshore

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n	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc) Cost Per Consultant	1	LS	\$32,235	\$32,235	\$83,747
_	Remove Exterior Window	10	SF	\$8.56	\$86	\$222
					\$32,321	\$83,969
	ARCHITECTURAL					
	Security Gate	1	EA	\$1,391	\$1,391	\$3,614
	Roofing, Repair Existing	280	SF	\$7.49	\$2,097	\$5,44
	Replace / Repair Vent Caps (Brass)	8	EA	\$214.00	\$1,712	\$4,448
	Windows, New Glazing	10	SF	\$58.85	\$589	\$1,529
	Windows, Paint Frame & Sash	72	SF	\$23.54	\$1,695	\$4,40
	Door, Refinish & Replace Hardware - Existing	1	LEAF	\$749.00	\$749	\$1,940
	Paint & Repair Plaster, Interior Wall & Ceiling	927	SF	\$4.28	\$3,968	\$10,30
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,299
					\$12,700	\$32,995
	STRUCTURAL					
	Column Bases, Repair Existing	2	EA	\$3,210	\$6,420	\$16,679
					\$6,420	\$16,679

Park: Apostle Islands National Lakeshore

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Estimate is Based on 2011 Costs

Date: March 4, 2011

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em	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL					
	HVAC, Increase Ventilation - Passive	262	SF	\$5.35	\$1,402	\$3,642
				, , ,	\$1,402	\$3,642
	ELECTRICAL					
	Inspect / Replace Lightning Protection System	262	SF	\$6.42	\$1,682	\$4,37
					\$1,682	\$4,370
	Subtotal Direct Construction Costs				* F4 F04	\$4.44.0E
	Published Location Factor (Negative 5.3 Percent)				\$54,524 -\$2,890	\$141,65
	Remoteness Factor (20 Percent)				\$10,905	
	Federal Wage Rate Factor (7.5 Percent)				\$2,045	
	Design Contingency (20 Percent)				\$10,905	
	Total Direct Construction Costs				\$75,489	
	Standard General Conditions (14 Percent)				\$10,568	
	Government General Conditions (8 Percent)				\$6,039	
	Bond (2 Percent)				\$1,510	
	Historic Preservation Factor (15 Percent)				\$11,323	
	Subtotal NET Construction Cost				\$104,930	
	Overhead (10 Percent)				\$10,493	
	Profit (10 Percent)				\$10,493	
	Estimated NET Construction Cost				\$125,916	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$6,296	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 - '	7.5 Perc	ent)	\$9,444	
	Total Estimated NET Cost of Construction				\$141,655	

Park: Apostle Islands National Lakeshore

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Date: March 4, 2011

Reviewed By: Parametrix, Inc.

Item	IGAN ISLAND - Keepers Quarters Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	·	•				
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	¢47.756	¢47.756	¢104.07
	Cost Per Consultant	1	LS	\$47,756	\$47,756	\$124,07
	Remove Roofing, Shingles	1,105	SF	\$3.21	\$3,547	\$9,21
	Remove Finishes - Floor, Wall & Ceiling	1,932	SF	\$2.68	\$5,178	\$13,452
					\$56,481	\$146,738
	ARCHITECTURAL					
	Wood Porch, Repaint	126	SF	\$10.70	\$1,348	\$3,50
	Exterior Wall - Clean Brick	2,180	SF	\$2.14	\$4,665	\$12,12
	Exterior Wall - Repair Brick	65	SF	\$21.40	\$1,391	\$3,61
	Handrails	70	LF	\$96.30	\$6,741	\$17,51
	Roofing, Asphalt Shingles, Felt & Flashings	1,105	SF	\$6.96	\$7,691	\$19,98
	Replace Raingutters & Downspouts	130	LF	\$48.15	\$6,260	\$16,26
	Windows, New Glazing	20	SF	\$58.85	\$1,177	\$3,05
	Windows, Paint Frame & Sash	200	SF	\$23.54	\$4,708	\$12,23
	Door, Refinish & Replace Hardware - Existing	20	LEAF	\$749.00	\$14,980	\$38,91
	Wood Flooring, Refinish Original	1,782	SF	\$5.35	\$9,534	\$24,76
	Paint, Exterior Siding & Trim	200	SF	\$2.68	\$536	\$1,39
	Paint, Soffit & Trim	441	SF	\$3.75	\$1,654	\$4,29
	Paint & Repair Plaster, Interior Wall & Ceiling	4,667	SF	\$4.28	\$19,975	\$51,89
	Paint, Miscellaneous Items	1	LS	\$2,000	\$2,000	\$5,19
	ADA Lift, Allowance	1	LS	\$8,500	\$8,500	\$22,08
					\$91,159	\$236,83
	STRUCTURAL					
	Concrete Slab Infill (Replace)	30	SF	\$26.75	\$803	\$2,08
	Concrete Ramp & Railings	80	SF	\$117.70	\$9,416	\$24,46
	Floor Structure, Reinforce Existing	56	SF	\$37.45	\$2,097	\$5,44
	Roof Structure, Reinforce Existing	921	SF	\$12.84	\$11,826	\$30,72
					\$24,141	\$62,72
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Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: March 4, 2011

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MICH	IIGAN ISLAND - Keepers Quarters					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL					
	Inspect / Repair Septic System	1	LS	\$15,000	\$15,000	\$38,970
	Remove Propane Piping	100	LF	\$10.70	\$1,070	\$2,780
	HVAC, Propane Piping	75	LF	\$28.89	\$2,167	\$5,629
	HVAC, Increase Ventilation	1,932	SF	\$9.10	\$17,581	\$45,676
	, and the state of	.,002	<u> </u>	40110	\$35,818	\$93,056
					, ,	¥ /
	ELECTRICAL					
	Replace Lightning Protection System	1,105	SF	\$4.28	\$4,729	\$12,287
	Photovoltaic System (Ventilation)	1,932	SF	\$6.42	\$12,403	\$32,224
	Replace Smoke Detectors	1	LS	\$1,500	\$1,500	\$3,897
					\$18,633	\$48,408
	Subtotal Direct Construction Costs				\$226,232	\$587,754
	Published Location Factor (Negative 5.3 Percent)				-\$11,990	
	Remoteness Factor (20 Percent)				\$45,246	
	Federal Wage Rate Factor (7.5 Percent)				\$8,484	
	Design Contingency (20 Percent)				\$45,246	
	Total Direct Construction Costs				\$313,218	
	Standard General Conditions (14 Percent)				\$43,851	
	Government General Conditions (8 Percent)				\$25,057	
	Bond (2 Percent)				\$6,264	
	Historic Preservation Factor (15 Percent)				\$46,983	
	Subtotal NET Construction Cost				\$435,373	
	Overhead (10 Percent)				\$43,537	
	Profit (10 Percent)				\$43,537	
	Estimated NET Construction Cost				\$522,448	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$26,122	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perd	ent)	\$39,184	
	Total Estimated NET Cost of Construction				\$587,754	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

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Item	IGAN ISLAND - Assistant Keepers Quarters & Worksho Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	·					
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)					
		1	LS	\$30,052	\$30,052	\$78,070
	Cost Per Consultant Remove Roofing, Shingles	714	SF	\$3.21	\$2,292	\$5,95 ₄
	Remove Rooming, Shirigles	714	SF.	Φ3.∠1	\$32,344	\$84,03
					\$32,344	Ψ04,03 (
	ARCHITECTURAL					
	Handrails	25	LF	\$96.30	\$2,408	\$6,25
	Roofing, Asphalt Shingles, Felt & Flashings	714	SF	\$6.96	\$4,969	\$12,91
	Raingutters, Downspouts & Splashblocks	54	LF	\$48.15	\$2,600	\$6,75
	Windows, New Glazing & Screens	50	SF	\$58.85	\$2,943	\$7,64
	Windows, Paint Frame & Sash	98	SF	\$23.54	\$2,307	\$5,99
	Door, Refinish & Replace Hardware - Existing	10	LEAF	\$749.00	\$7,490	\$19,459
	Wood Flooring, Refinish Existing	364	SF	\$5.35	\$1,947	\$5,05
	Paint, Exterior Siding & Trim	1,134	SF	\$2.68	\$3,039	\$7,89
	Paint, Soffit & Trim	415	SF	\$3.75	\$1,556	\$4,04
	Paint & Repair Plaster, Interior Wall & Ceiling	778	SF	\$4.28	\$3,330	\$8,65
	Paint, Miscellaneous Items	1	LS	\$1,000	\$1,000	\$2,598
	,			. ,	\$33,589	\$87,26
	STRUCTURAL					
	Roof Structure, Reinforce Existing	34	SF	\$32.10	\$1,091	\$2,83
					\$1,091	\$2,83

Park: Apostle Islands National Lakeshore

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em	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	BAT OLI ANIIO AL					
	MECHANICAL					
	Cap Unused Piping	1	LS	\$1,000	\$1,000	\$2,59
	HVAC, Increase Ventilation	778	SF	\$9.10	\$7,080	\$18,39
	•				\$8,080	\$20,9
						•
	ELECTRICAL					
	Replace Feeder Circuitry	778	SF	\$3.75	\$2,918	\$7,5
	Photovoltaic System (Ventilation)	778	SF	\$6.42	\$4,995	\$12,9
	(\$7,912	\$20,5
	Subtotal Direct Construction Costs				\$83,016	\$215,6
	Published Location Factor (Negative 5.3 Percent)				-\$4,400	4 210,0
	Remoteness Factor (20 Percent)				\$16,603	
	Federal Wage Rate Factor (7.5 Percent)				\$3,113	
	Design Contingency (20 Percent)				\$16,603	
	Total Direct Construction Costs				\$114,936	
	Standard General Conditions (14 Percent)				\$16,091	
	Government General Conditions (8 Percent)				\$9,195	
	Bond (2 Percent)				\$2,299	
	Historic Preservation Factor (15 Percent)				\$17,240	
	Subtotal NET Construction Cost				\$159,761	
	Overhead (10 Percent)				\$15,976	
	Profit (10 Percent)				\$15,976	
	Estimated NET Construction Cost				\$191,714	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$9,586	
	Inflation Escalation (22 Months to Midpoint of Construction, J	Jan 2013 - 1	7.5 Perc	ent)	\$14,379	
	Total Estimated NET Cost of Construction				\$215,678	

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tem Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
·					
DEMOLITION					
Building Related:					
Hazmat (Mold, Lead, Etc)	1	LS	\$21,704	\$21,704	\$56,38
Cost Per Consultant	'		⊅∠1,704	ΦZ 1,7 U4	უ ენ,აი
Remove Roofing, Shingles	779	SF	\$3.21	\$2,501	\$6,49
				\$24,205	\$62,88
ARCHITECTURAL					
Exterior Wall - Repair Brick	175	SF	\$21.40	\$3,745	\$9,73
Repair Stairs & Add Railings	1	LS	\$3,500	\$3,500	\$9,09
Roofing, Asphalt Shingles, Felt & Flashings	779	SF	\$6.96	\$5,422	\$14,08
Raingutter, Downspouts & Splashblocks	88	LF	\$48.15	\$4,237	\$11,00
Windows, New Glazing	40	SF	\$58.85	\$2,354	\$6,1
Windows, Paint Frame, Sash & Repair Hardware	40	SF	\$23.54	\$942	\$2,44
Door, Refinish & Replace Hardware - Existing	5	LEAF	\$749.00	\$3,745	\$9,73
Paint, Soffit & Trim	56	SF	\$3.75	\$210	\$54
Paint & Repair Plaster, Interior Wall & Ceiling	1,300	SF	\$4.28	\$5,564	\$14,4
Paint, Miscellaneous Items	1	LS	\$1,000	\$1,000	\$2,5
				\$30,719	\$79,8
STRUCTURAL					
SINUCIUNAL					
Roof Structure, Repair Existing	110	SF	\$32.10	\$3,531	\$9,1
				\$3,531	\$9,1

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em	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL					
	MECHANICAL					
	Tram Hoist, Replace w/ Diesel Powered Unit	1	LS	\$16,200	\$16,200	\$42,08
	HVAC, Increase Ventilation	832	SF	\$9.10	\$7,571	\$19,67
					\$23,771	\$61,75
	ELECTRICAL					
	Diesel Generator, Remove	1	EA	\$3,210	\$3,210	\$8,34
	Replace Branch Circuitry	832	SF	\$5.35	\$4,451	\$11,56
	Photovoltaic System (Ventilation)	832	SF	\$6.42	\$5,341	\$13,87
	Overcurrent Protection	1	LS	\$1,200	\$1,200	\$3,11
					\$14,203	\$36,89
	Subtotal Direct Construction Costs				\$96,428	\$250,52
	Published Location Factor (Negative 5.3 Percent)				-\$5,111	
	Remoteness Factor (20 Percent)				\$19,286	
	Federal Wage Rate Factor (7.5 Percent)				\$3,616	
	Design Contingency (20 Percent)				\$19,286	
	Total Direct Construction Costs				\$133,505	
	Standard General Conditions (14 Percent)				\$18,691	
	Government General Conditions (8 Percent) Bond (2 Percent)				\$10,680 \$2,670	
	Historic Preservation Factor (15 Percent)				\$20,026	
	Subtotal NET Construction Cost				\$185,571	
	Overhead (10 Percent)				\$18,557	
	Profit (10 Percent)				\$18,557	
	Estimated NET Construction Cost				\$222,686	
	Contracting Method Adjustment (Pre-Qualified Open Compe	etitive - 5 Pe	ercent)		\$11,134	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 - ⁻	7.5 Perd	cent)	\$16,701	
	Total Estimated NET Cost of Construction				\$250,521	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

tem	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	DEMOCRITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	\$3,000	\$3,000	\$7,79
	Cost Per Consultant	444		, i	-	
	Remove Roof & Structure	444	SF	\$7.49	\$3,326	\$8,64
					\$6,326	\$16,43
	ARCHITECTURAL					
	Remove Plywood Flooring & Replace Wood Flooring	135	SF	\$12.84	\$1,733	\$4,50
	Exterior Wall, Wood Studs	599	SF	\$4.82	\$2,887	\$7,50
	Wood Roof Shingles & Flashings	444	SF	\$8.56	\$3,801	\$9,87
	Windows, New Glazing	25	SF	\$58.85	\$1,471	\$3,82
	Windows, Paint Frame & Sash	25	SF	\$23.54	\$589	\$1,52
	Doors, Refinish, Replace Hardware & Add Plexiglass Panel	2	LEAF	\$1,017	\$2,033	\$5,28
	Paint, Exterior Siding & Trim	599	SF	\$2.68	\$1,605	\$4,17
	Paint, Soffit & Trim	82	SF	\$3.75	\$308	\$79
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,29
					\$14,927	\$38,78
	STRUCTURAL					
	Concrete Foundations	10	CY	\$856.00	\$8,560	\$22,23
	Concrete Slab on Grade	240	SF	\$13.91	\$3,338	\$8,67
	Wood Roof Structure & Sheathing	444	SF	\$21.40	\$9,502	\$24,68
					\$21,400	\$55,59

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

MICH	IGAN ISLAND - Shed					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL				Not	Required
	ELECTRICAL				Not	Required
	ELECTRICAL				Not	Nequired
				 		
	Subtotal Direct Construction Costs				\$42,652	\$110,81
	Published Location Factor (Negative 5.3 Percent)				-\$2,261	· · ·
	Remoteness Factor (20 Percent)				\$8,530	
	Federal Wage Rate Factor (7.5 Percent)				\$1,599	
	Design Contingency (20 Percent)				\$8,530	
	Total Direct Construction Costs				\$59,052	
	Standard General Conditions (14 Percent)				\$8,267	
	Government General Conditions (8 Percent)				\$4,724	
	Bond (2 Percent)				\$1,181	
	Historic Preservation Factor (15 Percent)				\$8,858	
	Subtotal NET Construction Cost				\$82,083	
	Overhead (10 Percent)				\$8,208	
	Profit (10 Percent)				\$8,208	
	Estimated NET Construction Cost				\$98,499	
	Contracting Method Adjustment (Pre-Qualified Open Compo				\$4,925	
	Inflation Escalation (22 Months to Midpoint of Construction,		7.5 Perc	ent)	\$7,387	
	Total Estimated NET Cost of Construction				\$110,811	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

tem	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	\$1,739	\$1,739	\$4,51
	Cost Per Consultant	'	LO	ψ1,739	·	
					\$1,739	\$4,51
	ARCHITECTURAL					
	Metal Roofing, Repair Existing	15	SF	\$42.80	\$642	\$1,66
	Windows, Paint Frame & Sash	2	SF	\$47.08	\$94	\$24
	Wood Flooring, Repaint Existing	16	SF	\$5.35	\$86	\$22
	Paint, Exterior Siding & Trim	140	SF	\$5.35	\$749	\$1,94
	Paint, Roof & Trim	59	SF	\$6.42	\$379	\$98
	Paint, Interior Wall & Ceiling	166	SF	\$4.28	\$710	\$1,84
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,29
					\$3,160	\$8,21
	STRUCTURAL					
	Consulta Formulations	1	CV	£4.004	¢4 204	# 0.00
	Concrete Foundations	l I	CY	\$1,284	\$1,284	\$3,33
					\$1,284	\$3,33

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

MICH	IGAN ISLAND - Privy					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL				Not	Required
				1		
					NI -	Din d
	ELECTRICAL				No	Required
			-			
	Subtotal Direct Construction Costs				\$6,183	\$16,064
	Published Location Factor (Negative 5.3 Percent)				-\$328	
	Remoteness Factor (20 Percent)				\$1,237	
	Federal Wage Rate Factor (7.5 Percent)				\$232	
	Design Contingency (20 Percent)			† †	\$1,237	
	Total Direct Construction Costs				\$8,560	
	Standard General Conditions (14 Percent)				\$1,198	
	Government General Conditions (8 Percent)			1	\$685	
	Bond (2 Percent)				\$171	
	Historic Preservation Factor (15 Percent)				\$1,284	
	Subtotal NET Construction Cost				\$11,899	
	Overhead (10 Percent)				\$1,190	
	Profit (10 Percent)				\$1,190	
	Estimated NET Construction Cost				\$14,279	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$714	
	Inflation Escalation (22 Months to Midpoint of Construction,		7.5 Perc	ent)	\$1,071	
	Total Estimated NET Cost of Construction				\$16,064	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

SUMI	MARY-OUTER ISLAND		
Item	Description	Direct Cost	Total Net
	OUTER ISLAND - Site Improvements	\$46,608	\$125,460
	OUTER ISLAND - Site improvements	\$40,000	\$125,460
	OUTER ISLAND - Outer Island Tower	\$56,774	\$152,827

	OUTER ISLAND - Keepers Quarters	\$232,789	\$626,631
	OUTER ISLAND - Fog Signal Building	\$99,444	\$267,688
		700,111	
	OUTER ISLAND - Oil Storage	\$4,867	\$13,100
	OUTER ISLAND - Privy	\$6,396	\$17,217
	OUTER ISEAND - THEY	\$0,330	Ψ11,211
	TOTAL (Outer Island)	\$446,878	\$1,202,923

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

OUTE	R ISLAND - Site Improvements					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	SITE IMPROVEMENTS - Cost Per Consultant					
	Site Clearing, 2.5 Acres	1	LS	\$20,283	\$20,283	\$54,597
	Site Circulation / Accessibility	1	LS	\$17,450	\$17,450	\$46,973
	Site Structures	1	LS	\$2,750	\$2,750	\$7,403
	Small Scale Site Features	1	LS	\$4,500	\$4,500	\$12,113
	Landscape Plantings	1	LS	\$1,625	\$1,625	\$4,374
					\$46,608	\$125,460
	Subtotal Direct Construction Costs				\$46,608	\$125,460
	Published Location Factor (Negative 5.3 Percent)				-\$2,470	
	Remoteness Factor (25 Percent)				\$11,652	
	Federal Wage Rate Factor (7.5 Percent)				\$1,748	
	Design Contingency (20 Percent)				\$9,322	
	Total Direct Construction Costs				\$66,858	
	Standard General Conditions (14 Percent)				\$9,360	
	Government General Conditions (8 Percent)				\$5,349	
	Bond (2 Percent)				\$1,337	
	Historic Preservation Factor (15 Percent)				\$10,029	
	Subtotal NET Construction Cost				\$92,933	
	Overhead (10 Percent)				\$9,293	
	Profit (10 Percent)				\$9,293	
	Estimated NET Construction Cost				\$111,520	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$5,576	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 - '	7.5 Perd	ent)	\$8,364	
	Total Estimated NET Cost of Construction				\$125,460	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

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Date: March 4, 2011

Reviewed By: Parametrix, Inc.

n	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc) Cost Per Consultant	1	LS	\$13,201	\$13,201	\$35,53
	Remove Finishes - Floor, Wall & Ceiling	95	SF	\$5.35	\$508	\$1,36
	<u> </u>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$13,709	\$36,90
	ARCHITECTURAL					
	Exterior Wall - Repoint / Seal Masonry	3,192	SF	\$7.49	\$23,908	\$64,3
	Handrails	17	LF	\$96.30	\$1,637	\$4,4
	Windows, New Glazing & 1 Storm Window to Match Existing	3	SF	\$117.70	\$353	\$9
	Door, Refinish & Replace Hardware - Existing	1	LEAF	\$749.00	\$749	\$2,0
	Flooring, Repair Existing	277	SF	\$3.21	\$889	\$2,3
	Ceiling, Repair Existing	201	SF	\$3.75	\$754	\$2,0
	Patch Roof Rust	65	SF	\$4.28	\$278	\$7
	Paint, Roof & Trim	65	SF	\$12.84	\$835	\$2,2
	Paint, Interior Wall & Ceiling	3,138	SF	\$1.61	\$5,052	\$13,6
	Paint, Stairs	4	FLT	\$1,070	\$4,280	\$11,5
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,3
					\$39,235	\$105,6
-	STRUCTURAL					
	Monitor Existing Cracks	1	LS	\$2,000	\$2,000	\$5,3
					\$2,000	\$5,3
_						

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

em	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	·					
	MECHANICAL					
	HVAC, Increase Ventilation - Passive	95	SF	\$10.70	\$1,017	\$2,730
					\$1,017	\$2,730
	ELECTRICAL					
	Inspect / Replace Lightning Protection System	95	SF	\$8.56	\$813	\$2,189
					\$813	\$2,189
					-	
	Subtotal Direct Construction Costs				\$56,774	\$152,82
	Published Location Factor (Negative 5.3 Percent)				-\$3,009	Ψ102,02
	Remoteness Factor (25 Percent)				\$14,194	
	Federal Wage Rate Factor (7.5 Percent)				\$2,129	
	Design Contingency (20 Percent)				\$11,355	
	Total Direct Construction Costs				\$81,442	
	Standard General Conditions (14 Percent)				\$11,402	
	Government General Conditions (8 Percent)				\$6,515	
	Bond (2 Percent)				\$1,629	
	Historic Preservation Factor (15 Percent)				\$12,216	
	Subtotal NET Construction Cost				\$113,205	
	Overhead (10 Percent)				\$11,321	
	Profit (10 Percent)				\$11,321	
	Estimated NET Construction Cost				\$135,846	
	Contracting Method Adjustment (Pre-Qualified Open Compe	etitive - 5 Pe	ercent)		\$6,792	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 - 1	7.5 Perc	cent)	\$10,188	
	Total Estimated NET Cost of Construction				\$152,827	

Park: Apostle Islands National Lakeshore

PMIS: 154596

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Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

m	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)					
	Cost Per Consultant	1	LS	\$88,868	\$88,868	\$239,21
	Remove Finishes - Floor, Wall & Ceiling	2,494	SF	\$2.68	\$6,684	\$17,99
		_,		ΨΞ.00	\$95,552	\$257,21
	ARCHITECTURAL					
	Metal Roofing, Repair Existing	655	SF	\$8.56	\$5,607	\$15,09
	Chimney Liner	37	LF	\$107.00	\$3,959	\$10,65
	Exterior Wall - Repoint / Seal Masonry & Replace 1 Window Sill	2,204	SF	\$7.49	\$16,508	\$44,43
	Handrails	40	LF	\$96.30	\$3,852	\$10,36
	Millwork, Refinish Existing	12	LF	\$160.50	\$1,926	\$5,18
	Windows, Paint Frame & Sash & Replace Glazing Putty	216	SF	\$23.54	\$5,085	\$13,68
	Repair Secondary Entry	1	LS	\$2,500	\$2,500	\$6,73
	Wood Flooring, Refinish Original	1,779	SF	\$5.35	\$9,518	\$25,62
	Paint, Roof & Trim	243	SF	\$3.75	\$911	\$2,45
	Paint, Soffit & Trim	339	SF	\$3.75	\$1,271	\$3,42
	Paint, Exterior Siding & Trim	224	SF	\$2.68	\$600	\$1,61
	Paint & Repair Plaster, Interior Wall & Ceiling	4,780	SF	\$4.28	\$20,458	\$55,07
	Paint & Repair Stairs	1	FLT	\$1,338	\$1,338	\$3,60
	Paint, Miscellaneous Items	1	LS	\$2,000	\$2,000	\$5,38
					\$75,533	\$203,32
	STRUCTURAL				Not Ro	equired

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

	R ISLAND - Keepers Quarters			10		
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL					
	Remove Unused Propane Piping	25	LF	\$10.70	\$268	\$720
	Inspect / Repair Septic System	1	LS	\$15,000	\$15,000	\$40,378
	HVAC, Increase Ventilation	2,494	SF	\$15,000	\$22,695	\$61,092
	HVAC, Increase ventilation	2,494	SF	ф9.10	\$22,695 \$37.963	\$102,190
					\$37,963	\$102,190
	ELECTRICAL					
	Replace Lightning Protection System	1,222	SF	\$4.28	\$5,230	\$14,079
	Photovoltaic System (Ventilation)	2,494	SF	\$6.42	\$16,011	\$43,100
	Overcurrent Protection	1	LS	\$2,500	\$2,500	\$6,73
	O VOI GOLINIA I TOCOGNIGHT	·		Ψ2,000	\$23,742	\$63,909
					Ψ20,1 42	φοσ,σσο
				1		
	Subtotal Direct Construction Costs				\$232,789	\$626,631
	Published Location Factor (Negative 5.3 Percent)				-\$12,338	
	Remoteness Factor (25 Percent)				\$58,197	
	Federal Wage Rate Factor (7.5 Percent)				\$8,730	
	Design Contingency (20 Percent)				\$46,558	
	Total Direct Construction Costs				\$333,936	
	Standard General Conditions (14 Percent)				\$46,751	
	Government General Conditions (8 Percent)				\$26,715	
	Bond (2 Percent)				\$6,679	
	Historic Preservation Factor (15 Percent)				\$50,090	
	Subtotal NET Construction Cost				\$464,171	
	Overhead (10 Percent)				\$46,417	
	Profit (10 Percent)				\$46,417	
	Estimated NET Construction Cost				\$557,005	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$27,850	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perc	cent)	\$41,775	
	Total Estimated NET Cost of Construction				\$626,631	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

	ISLAND - Fog Signal Building			10		
tem	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
D	EMOLITION					
В	uilding Related:					
	azmat (Mold, Lead, Etc)	1	LS	\$39,294	\$39,294	\$105,77
	ost Per Consultant			·		
R	emove Finishes - Floor, Wall & Ceiling	1,024	SF	\$2.68	\$2,744	\$7,38
					\$42,038	\$113,16
Α	RCHITECTURAL					
	andrails	20	LF	\$96.30	\$1,926	\$5,18
	xterior Wall - Replace Chipped Shingles	250	SF	\$10.70	\$2,675	\$7,20
	/indows, Paint Frame, Sash & Replace Hardware	96	SF	\$23.54	\$2,260	\$6,08
	oor, Refinish & Replace Hardware - Existing	13	LEAF	\$749.00	\$9,737	\$26,21
	Vood Flooring, Refinish Existing	81	SF	\$10.70	\$867	\$2,33
	eiling, Repair Existing	1,024	SF	\$2.68	\$2,744	\$7,38
	aint, Interior Wall & Ceiling	2,190	SF	\$1.61	\$3,526	\$9,49
	aint, Soffit & Trim	333	SF	\$3.75	\$1,249	\$3,36
	aint, Stairs	1	FLT	\$1,070	\$1,070	\$2,88
P	aint, Miscellaneous Items	1	LS	\$1,000	\$1,000	\$2,69
					\$27,054	\$72,82
S	TRUCTURAL					
С	eiling Framing, Reinforce Existing	210	SF	\$12.84	\$2,696	\$7,25
	<u> </u>				\$2,696	\$7,25
M	IECHANICAL					
		2.5		A 45 = -	****	^
	emove Piping	25	LF	\$10.70	\$268	\$72
	ram Hoist, Replace w/ Diesel Powered Unit	1	LS	\$16,200	\$16,200 \$16,468	\$43,60 \$44,32
					\$10,400	\$44,32

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

tem	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	ELECTRICAL					
	Diesel Generator, Remove	1	EA	\$3,210	\$3,210	\$8,64
	Replace Branch Circuitry	1,024	SF	\$5.35	\$5,478	\$14,74
	Overcurrent Protection	1	LS	\$2,500	\$2,500	\$6,73
					\$11,188	\$30,11
	Subtotal Direct Construction Costs				\$99,444	\$267,68
	Published Location Factor (Negative 5.3 Percent)				-\$5,271	
	Remoteness Factor (25 Percent)				\$24,861	
	Federal Wage Rate Factor (7.5 Percent)				\$3,729	
	Design Contingency (20 Percent)				\$19,889	
	Total Direct Construction Costs				\$142,653	
	Standard General Conditions (14 Percent)				\$19,971	
	Government General Conditions (8 Percent)				\$11,412	
	Bond (2 Percent)				\$2,853	
	Historic Preservation Factor (15 Percent)				\$21,398	
	Subtotal NET Construction Cost				\$198,287	
	Overhead (10 Percent)				\$19,829	
	Profit (10 Percent)				\$19,829	
	Estimated NET Construction Cost				\$237,945	
	Contracting Method Adjustment (Pre-Qualified Open Compe	\$11,897				
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perc	ent)	\$17,846	
	Total Estimated NET Cost of Construction				\$267,688	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

TER ISLAND - Oil Storage	Outrain!!!	1.1	Coc+/I I ! · I	Direct C1	Tatal NI-1
n Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
DEMOLITION					
DEMOLITION					
Duilding Deleted					
Building Related:					
Hazmat (Mold, Lead, Etc)	1	LS	\$1,000	\$1,000	\$2,6
Cost Per Consultant				£4.000	* 0.0
				\$1,000	\$2,6
ARCHITECTURAL					
Exterior Wall - Repair, Repoint & Seal Brick	261	SF	\$10.70	\$2,793	
Door, Repaint Existing	1	LEAF	\$90.95	\$91	\$2
Paint, Floor & Interior Wall	300	SF	\$1.61	\$483	\$1,3
Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,3
				\$3,867	\$10,4
STRUCTURAL				Not	t Required
MECHANICAL				Not	t Required
					<u> </u>
ELECTRICAL				Not	L t Required
ELECTRICAL				140	Required
Subtotal Direct Construction Costs				\$4,867	\$13,1
Published Location Factor (Negative 5.3 Percent)			1	-\$258	
Remoteness Factor (25 Percent)				\$1,217	
Federal Wage Rate Factor (7.5 Percent)				\$182	
Design Contingency (20 Percent)				\$973	
Total Direct Construction Costs				\$6,981	
Standard General Conditions (14 Percent)				\$977	
Government General Conditions (8 Percent)			1	\$558	
Bond (2 Percent)				\$140	
Historic Preservation Factor (15 Percent)				\$1,047	
Subtotal NET Construction Cost				\$9,704	
Overhead (10 Percent)				\$970	
Profit (10 Percent)				\$970	
Estimated NET Construction Cost		.,		\$11,645	
Contracting Method Adjustment (Pre-Qualified Open Compe				\$582	
Inflation Escalation (22 Months to Midpoint of Construction,		7.5 Perc	ent)	\$873	1
Total Estimated NET Cost of Construction				\$13,100	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

m	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc) Cost Per Consultant	1	LS	\$1,355	\$1,355	\$3,64
					\$1,355	\$3,64
	ARCHITECTURAL					
	Exterior Wall - Repair, Repoint & Seal Brick	132	SF	\$10.70	\$1,412	\$3,8
	Millwork, Refinish Existing	5	LF	\$267.50	\$1,338	\$3,60
	Metal Roofing, Repair & Repaint Existing	56	SF	\$7.49	\$419	\$1,12
	Windows, Paint Frame & Sash	3	SF	\$47.08	\$141	\$3
	Wood Roof Vent, Epoxy Stabilize	1	EA	\$267.50	\$268	\$7:
	Door, Refinish Existing	1	LEAF	\$240.75	\$241	\$6
	Paint, Exterior Trim	135	SF	\$5.35	\$722	\$1,9
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,3
					\$5,041	\$13,5
	STRUCTURAL				Not Re	equired

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: Parametrix, inc.

March 4, 2011

Reviewed By: Parametrix, Inc.
Date: March 4, 2011

tem	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	·	-				
	MECHANICAL				Not	Required
	MECHANICAL				1101	Required
	ELECTRICAL				Not	Required
	Subtotal Direct Construction Costs				#C 20C	¢47.0
					\$6,396 -\$339	\$17,2
	Published Location Factor (Negative 5.3 Percent) Remoteness Factor (25 Percent)			+ +	-ააა <u>ყ</u> \$1,599	
	Federal Wage Rate Factor (7.5 Percent)				\$240	
	Design Contingency (20 Percent)				\$1,279	
	Total Direct Construction Costs				\$9,175	
	Standard General Conditions (14 Percent)				\$1,285	
_	Government General Conditions (8 Percent)				\$734	
	Bond (2 Percent)				\$184	
	Historic Preservation Factor (15 Percent)				\$1,376	
	Subtotal NET Construction Cost				\$12,753	
	Overhead (10 Percent)				\$1,275	
	Profit (10 Percent)				\$1,275	
	Estimated NET Construction Cost				\$15,304	
	Contracting Method Adjustment (Pre-Qualified Open Compe	\$765				
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perc	ent)	\$1,148	
	Total Estimated NET Cost of Construction				\$17,217	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: ___Parametrix, Inc.

em Description	Direct Cost	Total Net
·		
DEVILS ISLAND - Site Improvements	\$121,598	\$315,91
DEVILS ISLAND - Devils Island Light Station Tower	\$100,383	\$260,79
DEVILS ISLAND - Keepers Quarters	\$222,364	\$577,70
DEVILS ISLAND - Assistant Keepers Quarters	\$158,208	\$411,02
DEVILS ISLAND - Fog Signal Building	\$90,317	\$234,64
DEVILS ISLAND - Oil House #1	\$3,520	\$9,14
DEVILS ISLAND - Oil House #2	\$6,513	\$16,92
DEVILS ISLAND - Tramway Engine Building	\$9,603	\$24,94
DEVILS ISLAND - Boathouse	\$37,526	\$97,49
TOTAL (Devil's Island)	\$750,032	\$1,948,59

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Parametrix, Inc.

March 4, 2011 Date:

Reviewed By: __ Parametrix, Inc.

DEVII	_S ISLAND - Site Improvements					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	SITE IMPROVEMENTS - Cost Per Consultant					
	Site Clearing, 8.7 Acres	1	LS	\$22,410	\$22,410	\$58,221
	Site Circulation / Accessibility	1	LS	\$49,063	\$49,063	\$127,465
	Site Structures	1	LS	\$36,000	\$36,000	\$93,529
	Small Scale Site Features	1	LS	\$13,875	\$13,875	\$36,047
	Landscape Plantings	1	LS	\$250.00	\$250	\$650
					\$121,598	\$315,912
	Subtotal Direct Construction Costs				\$121,598	\$315,912
	Published Location Factor (Negative 5.3 Percent)				-\$6,445	
	Remoteness Factor (20 Percent)				\$24,320	
	Federal Wage Rate Factor (7.5 Percent)				\$4,560	
	Design Contingency (20 Percent)				\$24,320	
	Total Direct Construction Costs				\$168,352	
	Standard General Conditions (14 Percent)				\$23,569	
	Government General Conditions (8 Percent)				\$13,468	
	Bond (2 Percent)				\$3,367	
	Historic Preservation Factor (15 Percent)				\$25,253	
	Subtotal NET Construction Cost				\$234,009	
	Overhead (10 Percent)				\$23,401	
	Profit (10 Percent)				\$23,401	
	Estimated NET Construction Cost				\$280,811	
	Contracting Method Adjustment (Pre-Qualified Open Competitive - 5 Percent)					
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perd	cent)	\$21,061	
	Total Estimated NET Cost of Construction				\$315,912	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

em	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	\$47,500	\$47,500	\$123,400
	Cost Per Consultant	'	LS	\$47,500	· ·	•
					\$47,500	\$123,400
	ARCHITECTURAL					
	ARCHITECTORAL					
	Handrails	42	LF	\$96.30	\$4,045	\$10,508
	Windows, Restore Operation - Export / Import to Site	150	SF	\$64.20	\$9,630	\$25,01
	Windows, Paint Frame & Sash	153	SF	\$23.54	\$3,602	\$9,35
	Door, Repaint & Replace Hardware - Existing	4	LEAF	\$749.00	\$2,996	\$7,78
	Paint, Exterior Siding & Trim	1,794	SF	\$2.68	\$4,808	\$12,49
	Patch Roof Rust	94	SF	\$4.28	\$402	\$1,04
	Paint, Roof & Trim	94	SF	\$12.84	\$1,207	\$3,13
	Paint, Interior Wall & Ceiling	226	SF	\$1.61	\$364	\$94
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,29
					\$27,553	\$71,58
	STRUCTURAL					
	Foundation, Repair Cracks	576	SF	\$21.40	\$12,326	\$32,02
	Additional Investigation, Allowance	1	LS	\$10,000	\$10,000	\$25,98
					\$22,326	\$58,00

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

em	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MEGUANIGAL					
	MECHANICAL					
	HVAC, Clean & Re-install Ball Ventilator	1	EA	\$856.00	\$856	\$2,22
	HVAC, Increase Ventilation - Passive	223	SF	\$5.35	\$1,193	\$3,100
					\$2,049	\$5,32
						. ,
	ELECTRICAL					
	Inspect / Replace Lighting Protection System	223	SF	\$4.28	\$954	\$2,480
	mopost, respicto Lighting i retestion System	220	0.	ψ20	\$954	\$2,48
					400 .	ψ=, 10
	Subtotal Direct Construction Costs				\$100,383	\$260,79
	Published Location Factor (Negative 5.3 Percent)				-\$5,320	
	Remoteness Factor (20 Percent)				\$20,077	
	Federal Wage Rate Factor (7.5 Percent)				\$3,764	
	Design Contingency (20 Percent)				\$20,077	
	Total Direct Construction Costs				\$138,980	
	Standard General Conditions (14 Percent)				\$19,457	
	Government General Conditions (8 Percent)				\$11,118	
	Bond (2 Percent)				\$2,780	
	Historic Preservation Factor (15 Percent)				\$20,847	
	Subtotal NET Construction Cost				\$193,183	
	Overhead (10 Percent)				\$19,318	
	Profit (10 Percent)				\$19,318	
	Estimated NET Construction Cost				\$231,819	
	Contracting Method Adjustment (Pre-Qualified Open Compe		\$11,591			
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perd	cent)	\$17,386	
	Total Estimated NET Cost of Construction				\$260,797	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

	LS ISLAND - Keepers Quarters			I		
tem	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION.					
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	-				
	Cost Per Consultant	1	LS	\$60,058	\$60,058	\$156,032
	Remove Floor Decking & Structure	66	SF	\$19.26	\$1,271	\$3,302
	Remove Roofing, Shingles	70	SF	\$6.42	\$449	\$1,168
	Remove Finishes - Floor, Wall & Ceiling	2,373	SF	\$2.68	\$6,360	\$16,522
	remove ransines ribbi, wan a bearing	2,070		Ψ2.00	\$68,138	\$177,024
					ψου, 1ου	Ψ177,02-
	ARCHITECTURAL					
	Handrails	30	LF	\$96.30	\$2,889	\$7,506
	Exterior Wall - Repoint / Seal Masonry	3,040	SF	\$7.49	\$22,770	\$59,156
	Roof Shingles, Wood	72	SF	\$17.12	\$1,233	\$3,202
	Windows, Paint Frame & Sash & Replace Glazing Putty	190	SF	\$23.54	\$4,473	\$11,620
	Door, Refinish Existing	14	LEAF	\$267.50	\$3,745	\$9,730
	Door Hatch, Replace / Stabilize Rotted Wood & Repaint	1	LS	\$750.00	\$750	\$1,949
	Flooring, Repair Existing	210	SF	\$3.21	\$674	\$1,75 ²
	Paint, Porch	67	SF	\$10.70	\$717	\$1,863
	Paint, Soffit & Trim	452	SF	\$3.75	\$1,695	\$4,404
	Paint, Interior Wall & Ceiling	2,633	SF	\$1.61	\$4,239	\$11,013
	Paint, Stairs	1	FLT	\$1,070	\$1,070	\$2,780
	Paint, Miscellaneous Items	1	LS	\$2,000	\$2,000	\$5,196
					\$46,254	\$120,168
	STRUCTURAL					
	Wood Floor Decking & Structure	66	SF	\$53.50	\$3,531	\$9,174
	Floor Structure, Reinforce Existing	47	SF	\$37.45	\$1,760	\$4,573
					\$5,291	\$13,746

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

n	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
MEC	HANICAL					
	ove Unused Propane Piping	15	LF	\$21.40	\$321	\$834
	ect / Repair Septic System	1	LS	\$15,000	\$15,000	\$38,970
	n & Repair Radiators	12	EA	\$1,445	\$17,334	\$45,034
HVA	C, Increase Ventilation	2,373	SF	\$9.10	\$21,594	\$56,102
					\$54,249	\$140,940
ELEC	CTRICAL					
Light	Fixtures	15	EA	\$240.75	\$3,611	\$9,382
	eptacles	20	EA	\$160.50	\$3,210	\$8,340
Inspe	ect / Replace Lightning Protection System	921	SF	\$4.28	\$3,942	\$10,241
	ace Feeder / Branch Circuitry	2,373	SF	\$7.49	\$17,774	\$46,177
Detec		2,373	SF	\$0.91	\$2,159	\$5,610
_	ovoltaic System (Ventilation)	2,373	SF	\$6.42	\$15,235	\$39,580
Over	current Protection	1	LS	\$2,500	\$2,500	\$6,495
					\$48,431	\$125,824
	Subtotal Direct Construction Costs				\$222,364	\$577,704
Publi	ished Location Factor (Negative 5.3 Percent)				-\$11,785	· · · · ·
	oteness Factor (20 Percent)				\$44,473	
Fede	eral Wage Rate Factor (7.5 Percent)				\$8,339	
Desig	gn Contingency (20 Percent)				\$44,473	
	Total Direct Construction Costs				\$307,862	
_	dard General Conditions (14 Percent)				\$43,101	
	ernment General Conditions (8 Percent)				\$24,629	
	d (2 Percent)				\$6,157	
Histo	pric Preservation Factor (15 Percent)				\$46,179	
0.40-	Subtotal NET Construction Cost head (10 Percent)				\$427,929 \$42,793	
	it (10 Percent)				\$42,793	
1 1011	Estimated NET Construction Cost				\$513,515	
Cont	racting Method Adjustment (Pre-Qualified Open Comp	etitive - 5 Pe	ercent)		\$25,676	
	tion Escalation (22 Months to Midpoint of Construction,			ent)	\$38,514	
	Total Estimated NET Cost of Construction			,	\$577,704	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

DEVILS ISLAND - Assistant Keepers Quarters	10 "	11.5	0 (//)	D: (0 (T . IN .
Item Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
DEMOLITION					
Building Related:					
Hazmat (Mold, Lead, Etc) Cost Per Consultant	1	LS	\$54,355	\$54,355	\$141,21
Remove Finishes - Floor, Wall & Ceiling	2,153	SF	\$2.68	\$5,770	\$14,99
				\$60,125	\$156,20
ARCHITECTURAL					
Exterior Wall - Repoint Masonry	86	SF	\$14.98	\$1,288	\$3,34
Wood Stairs, Porch - Replace Existing	5	RISER		\$1,204	\$3,3 4 \$3,12
Handrails	40	LF	\$96.30	\$3.852	\$10,00
Millwork, Refinish Existing	10	LF	\$160.50	\$1,605	\$4,17
Windows, Paint Frame & Sash	198	SF	\$23.54	\$4,661	\$12,10
Windows, Repair & Reglaze	50	SF	\$58.85	\$2,943	\$7,64
Door, Refinish & Replace Hardware - Existing	15	LEAF	\$749.00	\$11,235	\$29,18
Wood Flooring, Refinish Existing	1,225	SF	\$5.35	\$6,554	\$17,02
Flooring, Repair Existing	217	SF	\$3.21	\$697	\$1,81
Paint & Repair Plaster, Interior Wall & Ceiling	4,969	SF	\$4.28	\$21,267	\$55,25
Paint, Porch	67	SF	\$10.70	\$717	\$1,86
Paint, Soffit & Trim	341	SF	\$3.75	\$1,279	\$3,32
Paint, Stairs	1	FLT	\$1,070	\$1,070	\$2,78
Paint, Miscellaneous Items	1	LS	\$2,000	\$2,000	\$5,19
				\$60,371	\$156,84
STRUCTURAL					
OTROOTORAL					
Wood Floor Decking & Structure	81	SF	\$53.50	\$4,334	\$11,25
Floor Structure, Reinforce Existing	54	SF	\$37.45	\$2,022	\$5,25
Columns, Reinforce Existing	2	EA	\$1,605	\$3,210	\$8,34
<u> </u>				\$9,566	\$24,85
		-			
		<u> </u>			

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

m	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL					
	Remove Plumbing Fixtures & Piping	2	EA	\$802.50	\$1,605	\$4,17
	Radiators, Clean Existing	9	EA	\$321.00	\$2,889	\$7,500
	HVAC, Increase Ventilation - Passive	2,153	SF	\$5.35	\$11,519	\$29,92
		•			\$16,013	\$41,60
	ELECTRICAL					
	Remove Light Fixtures	5	EA	\$48.15	\$241	\$625
	Remove Receptacles	10	EA	\$37.45	\$375	\$97
	Inspect / Replace Lightning Protection System	2,153	SF	\$4.28	\$9,215	\$23,94
	Remove Feeder / Branch Circuitry	2,153	SF	\$1.07	\$2,304	\$5,98
	,				\$12,134	\$31,52
	Subtotal Direct Construction Costs				\$158,208	\$411,020
	Published Location Factor (Negative 5.3 Percent)				-\$8,385	
	Remoteness Factor (20 Percent)				\$31,642	
	Federal Wage Rate Factor (7.5 Percent)				\$5,933	
	Design Contingency (20 Percent)				\$31,642	
	Total Direct Construction Costs				\$219,039	
	Standard General Conditions (14 Percent)				\$30,665	
	Government General Conditions (8 Percent)				\$17,523	
	Bond (2 Percent)				\$4,381	
	Historic Preservation Factor (15 Percent)				\$32,856	
	Subtotal NET Construction Cost				\$304,464	
	Overhead (10 Percent)				\$30,446	
	Profit (10 Percent)				\$30,446	
	Estimated NET Construction Cost				\$365,357	
	Contracting Method Adjustment (Pre-Qualified Open Compe	\$18,268				
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perd	ent)	\$27,402	
	Total Estimated NET Cost of Construction				\$411,026	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

ltem	.S ISLAND - Fog Signal Building Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	2000.p.io.:		<u> </u>			
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	\$39,666	\$39,666	\$103,05
	Cost Per Consultant	'	LS	\$39,000	φ39,000	φ103,03
	Remove Finishes - Floor, Wall & Ceiling	1,316	SF	\$2.68	\$3,527	\$9,16
					\$43,193	\$112,21
	ARCHITECTURAL					
	Exterior Wall - Repoint Masonry	126	SF	\$14.98	\$1,887	\$4,90
	Exterior Wall - Repair Existing Shingles	200	SF	\$10.70	\$2,140	\$5,56
	Roofing, Repair Existing	1,222	SF	\$3.21	\$3,923	\$10,19
	Windows, Paint Frame, Sash & Repair Hardware	108	SF	\$23.54	\$2,542	\$6,60
	Door, Refinish & Replace Hardware - Existing	6	LEAF	\$749.00	\$4,494	\$11,67
	Flooring, Repair & Paint Existing	819	SF	\$3.21	\$2,629	\$6,83
	Ceiling, Repair Existing	128	SF	\$5.35	\$685	\$1,77
	Paint, Interior Wall & Ceiling	2,568	SF	\$1.61	\$4,134	\$10,74
	Paint, Exterior Trim	1,222	SF	\$3.21	\$3,923	\$10,19
	Paint, Miscellaneous Items	1	LS	\$1,000	\$1,000	\$2,59
					\$27,357	\$71,07
	STRUCTURAL					
	SIRUCIURAL					
	Wall Framing, Replace South Addition	380	SF	\$9.63	\$3,659	\$9,50
	Roof Structure, Reinforce Existing	754	SF	\$10.70	\$8,068	\$20,96
					\$11,727	\$30,46

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

DEVII	LS ISLAND - Fog Signal Building					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL				Not	Required
	ELECTRICAL					
	ELECTRICAL					
	Replace Light Fixtures	10	EA	\$240.75	\$2,408	\$6,255
	Replace Branch Circuitry	1,316	SF	\$4.28	\$5,632	\$14,633
	1	,		·	\$8,040	\$20,888
	Subtotal Direct Construction Costs				\$90,317	\$234,646
	Published Location Factor (Negative 5.3 Percent)				-\$4,787	
	Remoteness Factor (20 Percent)				\$18,063	
	Federal Wage Rate Factor (7.5 Percent)				\$3,387	
	Design Contingency (20 Percent)				\$18,063	
	Total Direct Construction Costs				\$125,044	
	Standard General Conditions (14 Percent)				\$17,506 \$10,004	
	Government General Conditions (8 Percent) Bond (2 Percent)				\$10,004 \$2,501	
	Historic Preservation Factor (15 Percent)				\$18,757	
	Subtotal NET Construction Cost				\$173,812	
	Overhead (10 Percent)				\$17,381	
	Profit (10 Percent)				\$17,381	
	Estimated NET Construction Cost				\$208,574	
	Contracting Method Adjustment (Pre-Qualified Open Compe	etitive - 5 Pe	ercent)		\$10,429	
	Inflation Escalation (22 Months to Midpoint of Construction,			cent)	\$15,643	
	Total Estimated NET Cost of Construction				\$234,646	

Project: Light Stations of Michigan, Outer, Devils, Long & Sand Islands Estimate By: Parametrix, Inc.

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

DEVI	LS ISLAND - Oil House #1					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	\$1,985	\$1,985	\$5,157
	Cost Per Consultant			Ψ1,000		
					\$1,985	\$5,157
	ARCHITECTURAL					
				* 4 . 0 . 0	# 4.000	^
	Remove Loose Mortar & Repoint Masonry	1	LS	\$1,000	\$1,000	\$2,598
	Door, Repair Frame	1	LEAF	\$535.00	\$535	\$1,390
					\$1,535	\$3,988
	OTRUCTURAL.				Not	Doguirod
	STRUCTURAL			1	NO	Required
				1		
	MECHANICAL				Not	Required
	MECHANICAL				NOI	. Nequireu
				-		
				+		
	ELECTRICAL				Not	Required
	ELLOTRICAL				140	required
				1		
	Subtotal Direct Construction Costs				\$3,520	\$9,145
	Published Location Factor (Negative 5.3 Percent)				-\$187	\text{\ti}\text{\texi{\text{\texi{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}}\\ \ti}\text{\text{\text{\text{\text{\text{\text{\text{\ti}}}\tittt{\text{\text{\texi}\text{\text{\texi}\tittit{\text{\texitit}\text{\text{\text{\text{\text{\texi}\tittt{\text{\text{\texi}\tittt{\texi}\text{\texititt{\text{\texi}\tittt{\text{\texi}
	Remoteness Factor (20 Percent)				\$704	
	Federal Wage Rate Factor (7.5 Percent)				\$132	
	Design Contingency (20 Percent)				\$704	
	Total Direct Construction Costs				\$4,873	
	Standard General Conditions (14 Percent)				\$682	
	Government General Conditions (8 Percent)				\$390	
	Bond (2 Percent)				\$97	
	Historic Preservation Factor (15 Percent)				\$731	
	Subtotal NET Construction Cost				\$6,774	
	Overhead (10 Percent)				\$677	
	Profit (10 Percent)				\$677	
	Estimated NET Construction Cost				\$8,129	
	Contracting Method Adjustment (Pre-Qualified Open Compa	etitive - 5 Po	ercent)		\$406	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perc	ent)	\$610	
	Total Estimated NET Cost of Construction				\$9,145	

Project: Light Stations of Michigan, Outer, Devils, Long & Sand Islands

Estimate By: Parametrix, Inc.

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

DEVI	LS ISLAND - Oil House #2					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	\$3,032	\$3,032	\$7,877
	Cost Per Consultant	ı	LO	ψ3,032	ψ5,032	\$1,011
					\$3,032	\$7,877
	ARCHITECTURAL					
	Remove & Replace Metal Roof Shingles	144	SF	\$9.10	\$1,310	
	Install Roof Ridge Cap	26	LF	\$40.66	\$1,057	\$2,747
	Paint, Roof & Trim	144	SF	\$6.42	\$924	\$2,402
	Paint, Interior Wall & Ceiling	59	SF	\$3.21	\$189	\$492
					\$3,481	\$9,045
	STRUCTURAL				No	Required
					N1-	Dii
	MECHANICAL				No	Required
	FLECTRICAL				No	t Required
	ELECTRICAL				NO	Required
	Subtotal Direct Construction Costs				\$6,513	\$16,922
	Published Location Factor (Negative 5.3 Percent)				-\$345	ψ10,322
	Remoteness Factor (20 Percent)				\$1,303	
	Federal Wage Rate Factor (7.5 Percent)				\$244	
	Design Contingency (20 Percent)				\$1,303	
	Total Direct Construction Costs				\$9,018	
	Standard General Conditions (14 Percent)				\$1,262	
	Government General Conditions (8 Percent)				\$721	
	Bond (2 Percent)				\$180	
	Historic Preservation Factor (15 Percent)				\$1,353	
	Subtotal NET Construction Cost				\$12,535	
	Overhead (10 Percent)				\$1,253	
	Profit (10 Percent)				\$1,253	
	Estimated NET Construction Cost				\$15,042	
	Contracting Method Adjustment (Pre-Qualified Open Compe	etitive - 5 Pe	ercent)		\$752	
	Inflation Escalation (22 Months to Midpoint of Construction,			ent)	\$1,128	
	Total Estimated NET Cost of Construction			,	\$16,922	
	Total Estimated HET Oost of Construction				Ψ10,322	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

DEVI	LS ISLAND - Tramway Engine Building					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	\$6,497	\$6,497	\$16,879
	Cost Per Consultant			φο, 107	•	
					\$6,497	\$16,879
	ARCHITECTURAL					
	Exterior Wall - Repoint Masonry	16	SF	\$14.98	\$240	\$623
	Windows, Paint Frame & Sash & Replace Glazing Putty	27	SF	\$23.54	\$636	\$1,651
	Door, Refinish & Replace Hardware - Existing	2	LEAF	\$749.00	\$1,498	
	Paint, Soffit & Trim	62	SF	\$3.75	\$233	\$604
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,299
					\$3,106	\$8,069
	STRUCTURAL				Not	Required
	MECHANICAL				Not	Required
					NI-	De molecul
	ELECTRICAL			1	NO	Required
	Out total Bire at Occupation Octob				#0.000	****
	Subtotal Direct Construction Costs				\$9,603	\$24,948
	Published Location Factor (Negative 5.3 Percent)				-\$509	
	Remoteness Factor (20 Percent)				\$1,921	
	Federal Wage Rate Factor (7.5 Percent)				\$360	
	Design Contingency (20 Percent)				\$1,921	
	Total Direct Construction Costs				\$13,295	
	Standard General Conditions (14 Percent) Government General Conditions (8 Percent)		 	1	\$1,861 \$1,064	
	Bond (2 Percent)				\$1,064 \$266	
	Historic Preservation Factor (15 Percent)		-	1	\$200 \$1,994	
	Subtotal NET Construction Cost				\$1,994 \$18,480	
	Overhead (10 Percent)				\$1,848	
	Profit (10 Percent)				\$1,848	
	Estimated NET Construction Cost				\$22,176	
	Contracting Method Adjustment (Pre-Qualified Open Comp	etitive - 5 D	ercent)		\$1,109	
	Inflation Escalation (22 Months to Midpoint of Construction,			ent)	\$1,663	
			7.5 1 610	orit)		
	Total Estimated NET Cost of Construction				\$24,948	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

tem	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	DEMOLITION		<u> </u>			
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	\$5,000	\$5,000	\$12,99
	Cost Per Consultant			·	· ·	
	Remove Floor Planking & Structure	130	SF	\$9.63	\$1,252	\$3,252
					\$6,252	\$16,243
	ARCHITECTURAL					
	Exterior Wall - Repair Existing	1,070	SF	\$5.35	\$5,725	\$14,872
	Wood Stairs, Railings & Landing	1,070	FLT	\$1,070	\$1,070	\$2,78
	Windows, Repair & Paint Frame & Sash & Replace Glazing	7	SF	\$47.08	\$330	\$850
	Putty Door, Repair & Refinish Original	2	LEAF	\$749.00	\$1,498	\$3,892
	Paint, Exterior Siding & Trim	1,070	SF	\$2.68	\$2,868	\$7,450 \$7,450
	Paint, Soffit & Trim	63	SF	\$3.75	\$236	\$614
	Paint, Miscellaneous Items	1	LS	\$1,000	\$1,000	\$2,598
				4 1,000	\$12,726	\$33,062
	STRUCTURAL					
	OTROCTORAL					
	Wood Floor Planking & Structure	130	SF	\$26.75	\$3,478	\$9,03
	Floor Structure, Reinforce Existing	576	SF	\$10.70	\$6,163	\$16,01
	Wall & Roof Framing, Reinforce / Replace Existing	925	SF	\$9.63	\$8,908	\$23,142
					\$18,548	\$48,189
			<u> </u>			

Project: Light Stations of Michigan, Outer, Devils, Long & Sand Islands

Estimate By: Parametrix, Inc.

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: Parametrix, Inc.

March 4, 2011

Reviewed By: Parametrix, Inc.

em	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL				Not F	Required
	MEGIANICAL				11011	toquii ou
	ELECTRICAL				Not F	Required
					40= =00	^
	Subtotal Direct Construction Costs				\$37,526	\$97,
	Published Location Factor (Negative 5.3 Percent)				-\$1,989	
	Remoteness Factor (20 Percent)			1	\$7,505	
	Federal Wage Rate Factor (7.5 Percent)			1	\$1,407	
	Design Contingency (20 Percent)				\$7,505	
	Total Direct Construction Costs				\$51,955	
	Standard General Conditions (14 Percent)				\$7,274	
	Government General Conditions (8 Percent)				\$4,156	
	Bond (2 Percent)				\$1,039	
	Historic Preservation Factor (15 Percent)				\$7,793	
	Subtotal NET Construction Cost				\$72,218	
	Overhead (10 Percent)				\$7,222	
	Profit (10 Percent)				\$7,222	
	Estimated NET Construction Cost				\$86,661	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$4,333	
	Inflation Escalation (22 Months to Midpoint of Construction,		7.5 Perd	cent)	\$6,500	
	Total Estimated NET Cost of Construction				\$97,494	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

Item	Description	Direct Cost	Total Net
	LONG ISLAND - Site Improvements	\$66,940	\$173,911
	LONG ISLAND - La Pointe Light Tower	\$84,122	\$218,550
	LONG ISLAND - Chequamegon Point Lighthouse	\$30,157	\$78,349
	LONG ISLAND - Triplex	\$352,051	\$914,633
	LONG ISLAND - Oil Building	\$5,198	\$13,504
	TOTAL (Long Island)	\$538,468	\$1,398,947

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

em	S ISLAND - Site Improvements Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	·	•				
	SITE IMPROVEMENTS - Cost Per Consultant					
	SITE IMPROVEMENTS - COSt Fer Consultant					
	Site Clearing, 5.2 Acres	1	LS	\$12,890	\$12,890	\$33,48
	Site Circulation / Accessibility	1	LS	\$29,700	\$29,700	\$77,16
	Site Structures	1	LS	\$19,250	\$19,250	\$50,01
	Small Scale Site Features	1	LS	\$4,500	\$4,500	\$11,69
	Landscape Plantings	1	LS	\$600.00	\$600	\$1,559
					\$66,940	\$173,91°
	Subtotal Direct Construction Costs				\$66,940	\$173,91
	Published Location Factor (Negative 5.3 Percent)				-\$3,548	
	Remoteness Factor (20 Percent)				\$13,388	
	Federal Wage Rate Factor (7.5 Percent)				\$2,510	
	Design Contingency (20 Percent)				\$13,388	
	Total Direct Construction Costs				\$92,678	
	Standard General Conditions (14 Percent)				\$12,975	
	Government General Conditions (8 Percent)				\$7,414	
	Bond (2 Percent)				\$1,854	
	Historic Preservation Factor (15 Percent)				\$13,902	
	Subtotal NET Construction Cost				\$128,823	
	Overhead (10 Percent)				\$12,882	
	Profit (10 Percent)				\$12,882	
	Estimated NET Construction Cost				\$154,588	
	Contracting Method Adjustment (Pre-Qualified Open Compe	etitive - 5 Pe	ercent)		\$7,729	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perd	cent)	\$11,594	
	Total Estimated NET Cost of Construction				\$173,911	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

	S ISLAND - La Pointe Light Tower			lo .///	D: (0 (T (INI (
ltem	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	DEMOCITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	ФОО 77 Г	\$29,775	\$77,350
	Cost Per Consultant	l l	LS	\$29,775	\$29,775	
	Remove Exterior Window	7	SF	\$8.56	\$60	\$150
	Remove Finishes - Floor, Wall & Ceiling	334	SF	\$2.68	\$895	\$2,32
					\$30,730	\$79,83
	ARCHITECTURAL					
	Repair Exterior Wall	30	SF	\$21.40	\$642	\$1,66
	Handrails	61	LF	\$96.30	\$5,874	\$15,26
	Windows, New Glazing	7	SF	\$117.70	\$824	\$2,14
	Windows, Paint Frame & Sash	69	SF	\$23.54	\$1,624	\$4,22
	Door, Repaint & Replace Hardware - Existing	5	LEAF	\$749.00	\$3,745	\$9,73
	Door, Remove & Patch Rust	5	LEAF	\$856.00	\$4,280	\$11,12
	Patch Roof Rust	62	SF	\$4.28	\$265	\$68
	Paint, Floor	350	SF	\$2.94	\$1,029	\$2,67
	Paint, Roof & Trim	62	SF	\$12.84	\$796	\$2,06
	Paint, Exterior Siding & Trim	1,045	SF	\$2.68	\$2,801	\$7,27
	Paint, Interior Wall & Ceiling	640	SF	\$1.61	\$1,030	\$2,67
	Paint, Stairs	3	FLT	\$1,070	\$3,210	\$8,34
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,29
					\$26,621	\$69,16°
	STRUCTURAL					
	Foundation, Repair Cracks	130	SF	\$42.80	\$5,564	\$14,45
	Bases / Belled Ends, Repair Existing	8	EA	\$909.50	\$7,276	\$18,90
	Additional Investigation, Allowance	1	LS	\$10,000	\$10,000	\$25,98
					\$22,840	\$59,33
					<u> </u>	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

tem	G ISLAND - La Pointe Light Tower Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	2000p	<u> </u>	<u> </u>	00000	2001.0001	
	MECHANICAL					
	HVAC, Increase Ventilation - Passive	334	SF	\$5.35	\$1,787	\$4,64
	.,			, , , , ,	\$1,787	\$4,64
	ELECTRICAL					
	Inspect / Replace Lightning Protection System	334	SF	\$6.42	\$2,144	\$5,57
	mopost, respictor Eight mig Frotostion System		<u> </u>	ψ0.12	\$2,144	\$5,57
	Subtotal Direct Construction Costs				\$84,122	\$218,55
	Published Location Factor (Negative 5.3 Percent)				-\$4,458	· · · · · · · · · · · · · · · · · · ·
	Remoteness Factor (20 Percent)				\$16,824	
	Federal Wage Rate Factor (7.5 Percent)				\$3,155	
	Design Contingency (20 Percent)				\$16,824	
	Total Direct Construction Costs				\$116,467	
	Standard General Conditions (14 Percent)				\$16,305	
	Government General Conditions (8 Percent)				\$9,317	
	Bond (2 Percent)				\$2,329	
	Historic Preservation Factor (15 Percent)				\$17,470	
	Subtotal NET Construction Cost				\$161,889	
	Overhead (10 Percent)				\$16,189	
	Profit (10 Percent)				\$16,189	
	Estimated NET Construction Cost				\$194,267	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$9,713	
	Inflation Escalation (22 Months to Midpoint of Construction,			ent)	\$14,570	
	Total Estimated NET Cost of Construction				\$218,550	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

m	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	DEMOCITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)	1	LS	\$24,427	\$24,427	\$63,46
	Cost Per Consultant	'			·	
	Remove Finishes - Floor, Wall & Ceiling	159	SF	\$2.68	\$426	\$1,10
					\$24,853	\$64,56
	ARCHITECTURAL					
	Windows, Paint Frame & Sash	16	SF	\$47.08	\$753	\$1,98
	Windows, Remove Plexiglas & Provide New Glazing	16	SF	\$58.85	\$942	\$2,44
	Paint, Roof & Trim	50	SF	\$12.84	\$642	\$1,66
	Paint, Exterior Siding & Trim	437	SF	\$2.68	\$1,171	\$3,04
	Paint, Interior Wall & Ceiling	171	SF	\$1.61	\$275	\$7
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,29
					\$4,283	\$11,12
	OTDUOTUDA!				Not E	Required
	STRUCTURAL				NOLK	required
	MECHANICAL				Not 5	Required
	MECHANICAL				INOT R	required

Project: Light Stations of Michigan, Outer, Devils, Long & Sand Islands

Estimate By: Parametrix, Inc.

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

Item	S ISLAND - Chequamegon Point Lighthouse Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	2000	Quartity	<u> </u>	1	2001.0001	
	ELECTRICAL					
	(USCG Light & Power Equipment Relocation Not					
	Included)					
	Inspect / Replace Lightning Protection System	159	SF	\$6.42	\$1,021	\$2,652
					\$1,021	\$2,652
	Subtotal Direct Construction Costs				\$30,157	\$78,349
	Published Location Factor (Negative 5.3 Percent)				-\$1,598	
	Remoteness Factor (20 Percent)				\$6,031	
	Federal Wage Rate Factor (7.5 Percent)				\$1,131	
	Design Contingency (20 Percent)				\$6,031	
	Total Direct Construction Costs				\$41,753	
	Standard General Conditions (14 Percent)				\$5,845	
	Government General Conditions (8 Percent)				\$3,340	
	Bond (2 Percent)				\$835	
	Historic Preservation Factor (15 Percent)				\$6,263	
	Subtotal NET Construction Cost				\$58,036	
	Overhead (10 Percent)				\$5,804	
	Profit (10 Percent)				\$5,804	
	Estimated NET Construction Cost				\$69,644	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$3,482	
	Inflation Escalation (22 Months to Midpoint of Construction,	Jan 2013 -	7.5 Perd	cent)	\$5,223	
	Total Estimated NET Cost of Construction				\$78,349	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.
Date: March 4, 2011

Item	Description					Total Net
		Quantity	Unit	Cost/Unit	Direct Cost	Total Not
	DEMOLITION			1		
	DEMOCRITION			+		
	Building Related:			1 1		
	Hazmat (Mold, Lead, Etc)	_		1.		
	Cost Per Consultant	1	LS	\$112,929	\$112,929	\$293,391
	Remove Roof Sheathing	986	SF	\$2.14	\$2,110	\$5,482
	Remove Roofing, Shingles	1,971	SF	\$3.21	\$6,327	\$16,437
	Remove Plywood Infill at Windows	100	SF	\$3.21	\$321	\$834
	Remove Finishes - Floor, Wall & Ceiling	4,830	SF	\$2.68	\$12,944	\$33,630
	remere remere remere en	1,000		4 =.55	\$134,631	\$349,774
					VIOI,00 1	ΨΟ.Ο,
				1 1		
				1		
	ARCHITECTURAL			1		
				1		
	Moisture Barrier, Foundation	1,568	SF	\$10.70	\$16,778	\$43,588
	Roofing, Repair Hole at Cornice	1	LS	\$500.00	\$500	\$1,299
	Roofing, Asphalt Shingles, Felt & Flashings	1,971	SF	\$6.96	\$13,718	\$35,640
	Windows, Epoxy Stabilize & Patch Areas of Rust	600	SF	\$9.10	\$5,460	\$14,185
	Windows, New Glazing	600	SF	\$58.85	\$35,310	\$91,736
	Windows, Paint Frame & Sash	600	SF	\$16.05	\$9,630	\$25,019
	Interior Wall Framing & Gypsum Board	1,600	SF	\$8.56	\$13,696	\$35,582
	Porch, Epoxy Stabilize & Paint	57	SF	\$13.91	\$793	\$2,060
	Ceiling, Gypsum Board	1,605	SF	\$2.14	\$3,435	\$8,923
	Paint, Exterior Siding & Trim	2,692	SF	\$2.68	\$7,215	\$18,744
	, ,	,		·	\$106,534	\$276,777
					¥ 100,000	,
	STRUCTURAL			+ +		
	Floor Structure, Reinforce Existing	1,620	SF	\$8.56	\$13,867	\$36,027
	Wall Structure, Repair Column Base	1	LS	\$750.00	\$750	\$1,949
	Roof Structure, Reinforce Existing	1,981	SF	\$12.84	\$25,436	\$66,083
	Roof Sheathing	986	SF	\$3.21	\$3,165	\$8,223
				70	\$43,218	\$112,282
					Ţ.0, 2 .0	¥ · · · 2,202
				+ +		

Project: Light Stations of Michigan, Outer, Devils, Long & Sand Islands

Estimate By: Parametrix,

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

Description MECHANICAL	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
MECHANICAL					
MECHANICAL					
MECHANICAL					
Remove Plumbing Fixtures & Piping	12	EA	\$267.50	\$3,210	\$8,340
HVAC, Increase Ventilation	4,830	SF	\$5.35	\$25,841	\$67,134
	•			\$29,051	\$75,474
					•
ELECTRICAL					
Remove Light Fixtures	4,830	SF	\$0.54	\$2,608	\$6,776
Photovoltaic System (Ventilation)	4,830	SF	\$6.42	\$31,009	\$80,561
Overcurrent Protection	1	LS	\$5,000	\$5,000	\$12,990
			* - ,	\$38,617	\$100,327
				400,000	* ***********************************
Subtotal Direct Construction Costs				\$352,051	\$914,633
Published Location Factor (Negative 5.3 Percent)				-\$18,659	·
Remoteness Factor (20 Percent)				\$70,410	
Federal Wage Rate Factor (7.5 Percent)				\$13,202	
Design Contingency (20 Percent)				\$70,410	
Total Direct Construction Costs				\$487,414	
Standard General Conditions (14 Percent)				\$68,238	
Government General Conditions (8 Percent)				\$38,993	
Bond (2 Percent)				\$9,748	
Historic Preservation Factor (15 Percent)				\$73,112	
Subtotal NET Construction Cost				\$677,506	
Overhead (10 Percent)				\$67,751	
Profit (10 Percent)				\$67,751	
Estimated NET Construction Cost				\$813,007	
Contracting Method Adjustment (Pre-Qualified Open Compe	etitive - 5 Pe	ercent)		\$40,650	
Inflation Escalation (22 Months to Midpoint of Construction,			ent)	\$60,976	
Total Estimated NET Cost of Construction				\$914,633	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

G ISLAND - Oil Building Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
DEMOLITION					
Building Related:					
Hazmat (Mold, Lead, Etc)					
Cost Per Consultant	1	LS	\$1,908	\$1,908	\$4,95
Remove Finishes - Floor, Wall & Ceiling	42	SF	\$10.70	\$449	\$1,16
Tomoro Timorio Timori, Trail a Coming			Ψ10.70	\$2,357	\$6,12
ARCHITECTURAL					
Door, Refinish & Replace Hardware - Existing	1	LEAF	\$749.00	\$749	\$1,94
Paint, Roof Vent	1	EA	\$428.00	\$428	\$1,11
Paint, Roof & Trim	94	SF	\$3.75	\$353	\$91
Paint, Exterior Siding & Trim	210	SF	\$2.68	\$563	\$1,46
Paint, Interior Wall & Ceiling	154	SF	\$1.61	\$248	\$64
Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,29
, , , , , , , , , , , , , , , , , , ,				\$2,840	\$7,3
STRUCTURAL				Not	Required
MECHANICAL				Not	Required
ELECTRICAL				Not	Required
Subtotal Direct Construction Cos	ts			\$5,198	\$13,50
Published Location Factor (Negative 5.3 Percent)				-\$275	
Remoteness Factor (20 Percent)				\$1,040	
Federal Wage Rate Factor (7.5 Percent)				\$195	
Design Contingency (20 Percent)				\$1,040	
Total Direct Construction Cos	ts			\$7,196	
Standard General Conditions (14 Percent)				\$1,007	
Government General Conditions (8 Percent)				\$576	
Bond (2 Percent)				\$144	
Historic Preservation Factor (15 Percent)				\$1,079	
Subtotal NET Construction Co	st			\$10,003	
Overhead (10 Percent)				\$1,000	
Profit (10 Percent) Estimated NET Construction Co	ct			\$1,000 \$12,003	
		orcont)		\$12,003 \$600	
Contracting Method Adjustment (Pre-Qualified Open Con Inflation Escalation (22 Months to Midpoint of Constructio			ont)	\$600 \$900	
		r.o reid	GIII)		
Total Estimated NET Cost of Construction	n			\$13,504	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: __Parametrix, Inc.

	MARY - SAND ISLAND	Direct Cont	Total Not
Item	Description	Direct Cost	Total Net
	SAND ISLAND - Site Improvements	\$24,120	\$62,664
	SAND ISLAND - Light Station Quarters	\$233,990	\$607,910
	SAND ISLAND - Oil Building	\$4,172	\$10,839
	SAND ISLAND - Privy	\$6,833	\$17,752
	TOTAL (Sand Island)	\$269,115	\$699,164

Project: Light Stations of Michigan, Outer, Devils, Long & Sand Islands

Estimate By: Parametrix, Inc.

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	SITE IMPROVEMENTS - Cost Per Consultant					
	Site Clearing, 1.0 Acre	1	LS	\$3,540	\$3,540	\$9,197
	Site Circulation / Accessibility	1	LS	\$7,680	\$7,680	\$19,953
	Small Scale Site Features	1	LS	\$5,875	\$5,875	\$15,263
	Station Vegetation	1	LS	\$7,025	\$7,025	\$18,251
					\$24,120	\$62,664
	Subtotal Direct Construction Costs				\$24,120	\$62,664
	Published Location Factor (Negative 5.3 Percent)				-\$1,278	
	Remoteness Factor (20 Percent)				\$4,824	
	Federal Wage Rate Factor (7.5 Percent)				\$905	
	Design Contingency (20 Percent)				\$4,824	
	Total Direct Construction Costs				\$33,394	
	Standard General Conditions (14 Percent)				\$4,675	
	Government General Conditions (8 Percent)				\$2,672	
	Bond (2 Percent)				\$668	
	Historic Preservation Factor (15 Percent) Subtotal NET Construction Cost				\$5,009	
					\$46,418 \$4,642	
	Overhead (10 Percent) Profit (10 Percent)			1	\$4,642	
	Estimated NET Construction Cost				\$55,701	
	Contracting Method Adjustment (Pre-Qualified Open Compe	etitive - 5 Pa	ercent)		\$2,785	
	Inflation Escalation (22 Months to Midpoint of Construction,			cent)	\$4,178	
	Total Estimated NET Cost of Construction			,0110	\$62,664	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

SANI	D ISLAND - Light Station Quarters					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION.					
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)					
	Cost Per Consultant	1	LS	\$57,645	\$57,645	\$149,763
	Remove Roofing, Shingles	2,071	SF	\$3.21	\$6,648	\$17,271
	Remove Finishes - Floor, Wall & Ceiling	2,132	SF	\$2.68	\$5,714	\$14,844
	remove vinicines vines, wan a coming	2,102	0.	Ψ2.00	\$70,007	\$181,878
					¥1 0,001	******
	ARCHITECTURAL					
	ARCHITECTORAL					
	Chimney Liner	38	LF	\$107.00	\$4,066	\$10,564
	Wood Ramp, ADA	16	SF	\$133.75	\$2,140	\$5,560
	Handrails	42	LF	\$96.30	\$4,045	\$10,508
	Millwork, Refinish Existing	15	LF	\$160.50	\$2,408	\$6,255
	Windows, Paint Frame, Sash & Replace Hardware	314	SF	\$16.05	\$5,040	\$13,093
	Windows, New Lantern Glazing	80	SF	\$58.85	\$4,708	\$12,231
	Door, Refinish & Replace Hardware - Existing	17	LEAF	\$749.00	\$12,733	\$33,081
	Roofing, Metal Shingles & Flashings	2,071	SF	\$17.12	\$35,456	\$92,114
	Raingutter & Downspouts	156	LF	\$48.15	\$7,511	\$19,515
	Replace Missing Brass Intake Caps	5	EA	\$214.00	\$1,070	\$2,780
	Wood Flooring, Refinish Original	1,384	SF	\$5.35	\$7,404	\$19,237
	Flooring, Repair Existing	192	SF	\$3.21	\$616	\$1,601
	Paint & Repair Plaster, Interior Wall & Ceiling	3,078	SF	\$4.28	\$13,174	\$34,226
	Paint, Stairs	1	FLT	\$1,070	\$1,070	\$2,780
	Paint, Miscellaneous Items	1	LS	\$2,000	\$2,000	\$5,196
					\$103,440	\$268,739
	STRUCTURAL					
	Floor Sheathing	99	SF	\$6.42	\$636	\$1,651
	Floor Structure, Reinforce Existing	96	SF	\$37.45	\$3,595	\$9,340
	Roof Structure, Reinforce Existing	272	SF	\$21.40	\$5,821	\$15,123
	Noor Structure, Nerriorde Existing	212	01	Ψ21.40	\$10,052	\$26,114
					\$10,032	φ20,114

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

em	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL					
	Remove Unused Propane Piping	20	LF	\$21.40	\$428	\$1,11
	Cistern, Clean, Paint & Seal Existing	1	EA	\$5,350	\$5,350	\$13,89
	HVAC, Increase Ventilation	2,132	SF	\$9.10	\$19,401	\$50,40
					\$25,179	\$65,41
	ELECTRICAL					
	ELECTRICAL					
	Replace Lightning Protection System	2,132	SF	\$4.28	\$9,125	\$23,70
	Photovoltaic System (Ventilation)	2,132	SF	\$6.42	\$13,687	\$35,56
	Overcurrent Protection	1	LS	\$2,500	\$2,500	\$6,49
					\$25,312	\$65,76
	Subtotal Direct Construction Costs				\$233,990	\$607,91
	Published Location Factor (Negative 5.3 Percent)				-\$12,401	
	Remoteness Factor (20 Percent)				\$46,798	
	Federal Wage Rate Factor (7.5 Percent)				\$8,775	
	Design Contingency (20 Percent)				\$46,798	
	Total Direct Construction Costs				\$323,959	
	Standard General Conditions (14 Percent)				\$45,354	
	Government General Conditions (8 Percent)				\$25,917	
	Bond (2 Percent)				\$6,479	
	Historic Preservation Factor (15 Percent)				\$48,594	
	Subtotal NET Construction Cost				\$450,303	
	Overhead (10 Percent)				\$45,030	
	Profit (10 Percent)				\$45,030	
	Estimated NET Construction Cost	alaine E D			\$540,364 \$27,018	
		11111/A - 5 PG	arcent)		\$27.018	
	Contracting Method Adjustment (Pre-Qualified Open Compeling Inflation Escalation (22 Months to Midpoint of Construction,			ont)	\$40,527	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

m	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
-	Building Related:					
	Hazmat (Mold, Lead, Etc)					
	Cost Per Consultant	1	LS	\$2,191	\$2,191	\$5,69
	OOST 1 OF CONSUMERIN				\$2,191	\$5,69
	ARCHITECTURAL					
	Door, Refinish & Replace Hardware - Existing	1	LEAF	\$749.00	\$749	\$1,94
	Paint, Interior Wall & Ceiling	228	SF	\$3.21	\$732	\$1,90
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,29
					\$1,981	\$5,14
	STRUCTURAL				Not	Required
	MECHANICAL				Not	Required
						1.0
	ELECTRICAL				Not	Required
						•
	Subtotal Direct Construction Costs				\$4,172	\$10,83
	Published Location Factor (Negative 5.3 Percent)				-\$221	
	Remoteness Factor (20 Percent)				\$834	
	Federal Wage Rate Factor (7.5 Percent)				\$156	
	Design Contingency (20 Percent)				\$834	
	Total Direct Construction Costs				\$5,776	
	Standard General Conditions (14 Percent)				\$809	
_	Government General Conditions (8 Percent)				\$462	
	Bond (2 Percent)				\$116	
	Historic Preservation Factor (15 Percent)				\$866	
	Subtotal NET Construction Cost				\$8,029	
	Overhead (10 Percent)				\$803	
	Profit (10 Percent)				\$803	
	Estimated NET Construction Cost				\$9,634	
	Contracting Method Adjustment (Pre-Qualified Open Compe				\$482	
	Inflation Escalation (22 Months to Midpoint of Construction,		7.5 Perc	ent)	\$723	
	Total Estimated NET Cost of Construction				\$10,839	

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Estimate By: Parametrix, Inc.

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

em	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	DEMOLITION					
	Building Related:					
	Hazmat (Mold, Lead, Etc)					
	Cost Per Consultant	1	LS	\$2,087	\$2,087	\$5,42
					\$2,087	\$5,42
	ARCHITECTURAL					
	Millwork, Refinish Existing	5	LF	\$160.50	\$803	\$2,08
	Windows, Paint Frame, Sash & Remove Board	3	SF	\$47.08	\$141	\$36
	Doors, Refinish, Replace Hardware & Add Plexiglass Panel	1	LEAF	\$909.50	\$910	\$2,36
	Roofing, Replace Metal Ball Closures at Edges of Ridge	2	EA	\$304.95	\$610	\$1,58
	Paint, Exterior Siding & Trim	20	SF	\$10.70	\$214	\$55
	Paint & Repair Plaster, Interior Wall & Ceiling	163	SF	\$8.56	\$1,395	\$3,62
	Paint, Miscellaneous Items	1	LS	\$500.00	\$500	\$1,29
					\$4,572	\$11,87
	STRUCTURAL					
	Floor Sheathing	27	SF	\$6.42	\$173	\$45
					\$173	\$45

Project: Light Stations of Michigan, Outer, Devils, Long & Sand Islands

Estimate By: Parametrix, Inc.

Park: Apostle Islands National Lakeshore

PMIS: 154596

Estimate is Based on 2011 Costs

Date: March 4, 2011

Reviewed By: Parametrix, Inc.

SANE	ISLAND - Privy					
Item	Description	Quantity	Unit	Cost/Unit	Direct Cost	Total Net
	MECHANICAL				Not	Required
	EL FOTDIO AL				Not	Doguirod
	ELECTRICAL				NO	Required
				+ +		
	Subtotal Direct Construction Costs				\$6,833	\$17,752
	Published Location Factor (Negative 5.3 Percent)				-\$362	· / -
	Remoteness Factor (20 Percent)				\$1,367	
	Federal Wage Rate Factor (7.5 Percent)				\$256	
	Design Contingency (20 Percent)				\$1,367	
	Total Direct Construction Costs				\$9,460	
	Standard General Conditions (14 Percent)				\$1,324	
	Government General Conditions (8 Percent)				\$757	
	Bond (2 Percent)				\$189	
	Historic Preservation Factor (15 Percent)				\$1,419	
	Subtotal NET Construction Cost				\$13,149	
	Overhead (10 Percent)				\$1,315	
	Profit (10 Percent)				\$1,315	
	Estimated NET Construction Cost				\$15,779	
	Contracting Method Adjustment (Pre-Qualified Open Compe			()	\$789	
	Inflation Escalation (22 Months to Midpoint of Construction,		7.5 Perc	ent)	\$1,183	
	Total Estimated NET Cost of Construction				\$17,752	

LANDSCAPE COST ESTIMATE DETAILS

2

1

1

Michigan Island

 Park:
 Apostle Islands National Lakeshore
 Reviewed By:

 Package:
 Michigan Island Treatment Preferred Alternative
 Date: 2/7/11

Item	Description	Quantity	Unit	Cos	st/Unit	Dire	ct Cost
Division 01		1					
Division 02	The second secon			+			
	Site Clearing			\top			
	1 Clear forest to meadow (inc. stump removal)	2.2	acre	\$	4,000.00	\$	8,800.00
	2 Selective Removal of embankment of trees	1.8	acre	\$	3,000.00	\$	5,400.00
	A						
	3 Stabilize embankment	1	ls	\$	14,000.00	\$	14,000.00
	Subtotal					\$	28,200.0
	Circulation/Site Accessibility			_		_	
	1 Retain boat dock location	1	ls	\$		\$	-
	2 Repair tramway to working condition	1	ls	\$	-	\$	-
	3 Repair tramway	1	ls	\$	1,200.00	\$	1,200.0
	4 Repair tram turntable (see power house)	100	ls	\$	-	\$	0.500.0
	5 Repair tramway railing (west side)	130	lf If	\$	50.00	\$	6,500.0
	6 Add tramway railing (east side)	130	lf	\$	100.00	\$	13,000.0
	Repair tram tracks by replacing timbers and resetting 7 tracks	345	If	\$	25.00	\$	8,625.0
	8 Widen concrete walks (410 lf)	820	sf	\$	6.00	\$	4,920.0
	9 Repair concrete walks	200	sf	\$	10.00		2,000.0
	Subtotal	27757.71	31	Ψ	10.00	\$	36,245.0
	Subtotal	1		+		9	30,243.0
	Structures			+		-	
	1 Protect Area of Root Cellar	1	ls	\$	2,500.00	S	2,500.0
	2 Mark Oil Building	1	ls	\$	5,000.00		5,000.0
	3	1	10	+	0,000.00	-	0,000.0
	Subtotal			+		\$	7,500.0
				+		Ť	7,000.0
	Small Scale Features	1		+		-	
	1 Relocate solar panel to less obtrusive location.	1	ls	\$		\$	-
	2 Repaint flagpole	1	ls	\$	1,000.00	\$	1,000.0
	Restore missing small scale features (birdbath,		- 10	+	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	1,000.0
	3 planter)	1	Is	\$	250.00	\$	250.0
	4 Relocate fire pit	1	ls	\$	250.00	\$	250.0
	5 Maintain radio antennae pole and base (2)	1	Is	\$	1,000.00	\$	1,000.0
	6 Maintain drainage system	1	ls	\$	500.00	\$	500.0
	Retain non-contributing featuresmisc. concrete			Т			
	7 footings	1	Is	\$	-	\$	-
	Subtotal				- 6	\$	3,000.0
				\perp			
	Station Vegetation			+			
	1 Restore orchard planting pattern						
	Preserve Existing Apple Tree	1	ea	\$	500.00	\$	500.0
	Replant orchard trees	12	ea	\$	250.00	\$	3,000.0
	2 Restore Pine Plantings						
	Preserve Existing Pines (pruning)	9	ea	\$	500.00	\$	4,500.0
	New Pine plantings	7	ea	\$	250.00	\$	1,750.0
	3 Restore Landscape Features at Old MI Lighthouse			_			
	Tree Plantings	12	ea	\$	250.00		3,000.0
	Stone Planters	7	ea	\$	250.00	\$	1,750.0
	Shrub Plantings	25	ea	\$	25.00		625.0
	Perennial Plantings	1	ls	\$	750.00		750.0
	Wood Fencing	400	ea	\$	10.00	\$	4,000.0
	A Destars I and transport to the second contact	1 1		1		l	
	4 Restore Landscape Features at Keepers Quarters Remove and replant Cedar hedge	20		-	20.00	6	000.0
		30	ea	\$	30.00		900.0 1,250.0
	Restore stone planter feature	5	ea		250.00		
	Perennial plantings	1	ls	\$	750.00	\$	750.0
	Remove non-contributing trees west of Old				E00.00		4 000 0
	5 Lighthouse (4)	8	ea	\$	500.00	\$	4,000.0
	6 Remove invasive plant materials from landscape	1	ls	\$	2,500.00	\$	2,500.0
	Subtotal		-000			\$	29,275.0
						_	-

Outer Island

Park:	Apostle Islands National Lakeshore			R	eviewed By:		
Package:	Outer Island Treatment Preferred Alternative				Date:	_	2/7/201
Item	Description	Quantity	Unit	Cos	st/Unit	Direct Cost	
Division 01							
Division 02	Oleaning			_		_	
	Clearing			-		_	
	1 Clear forest to meadow (inc. stump removal)	1.2	acre	\$	4,000.00	\$	4,800.00
	2 Selective clearing of trees on embankment	1.3	acre	\$	3.000.00	s	3,900.00
	3 Stabilize embankment	1	ls	\$	11,000.00	\$	11,000.00
	4 Maintain Drainage Swale	1165	If	\$	0.50	\$	582.5
	Subtotal	1100	- 11	Ψ	0.50	\$	20,282.5
	Subtotal	+ +		+		a	20,202.5
	Circulation/Site Accessibility						
	1 Retain current Boat Dock location	1	Is	\$		\$	
	2 Repair tramway to working condition	1	ls	\$	2,500.00	\$	2,500.00
	3 Maintain tram tracks	145	If		\$10.00		\$1,450.00
	4 Repair tramway railings (east side)	110	If	\$	37.50		4,125.00
	5 Add tramway guardrail (west side)	110	lf	\$	62.50		6,875.00
	6 Repair concrete walks	1	ls	\$	2,500.00	\$	2,500.0
	Subtotal			\perp		\$	17,450.0
	Structures			+		\vdash	
	1 Retain NPS Privy	1	ls	\$	-	\$	
	2 Protect Area of Cabin	1	ls	\$	2,500.00		2,500.00
	3 Mark historic location of well	1	ls	\$	250.00	\$	250.00
	Subtotal					\$	2,750.00
	Small Scale Features			+		\vdash	
	1 Retain Park Signs	1	ls	\$	-	S	21
	2 Remove Propane Tanks	1	ls	\$	1,000.00		1,000.00
	3 Repair Flagpole (bluff)	1	ls	\$	1,000.00		1,000.00
	4 Retain Concrete Foundation west of Fog Signal Building	1	ls	\$	-	S	
	5 Stabilize Cistern	1	ls	\$	500.00	\$	500.00
	6 Retain Fuel Tank	1	ls	\$	-	\$	
	7 Maintain Flag Pole (compass)	1	ls	\$	250.00	\$	250.00
	8 Repair Ladder Stand	1	ls	\$	1,500.00	\$	1,500.00
	9 Relocate Fire Pit	1	ls	\$	250.00	\$	250.0
	10 Retain Solar Panel	1	ls	\$	-	\$	-
	Subtotal			\perp		\$	4,500.0
	Station Vegetation	- - 		+		\vdash	
	1 Remove landscape plantings between FSB and Oil Storage	5	ea	\$	25.00	\$	125.00
	2 Maintain landscape plantings south of Oil Storage	10	ea	\$	150.00	\$	1,500.00
	Subtotal			+		\$	1,625.0
	- Constant			+		1	1,020.0
	SUBTOTAL SITE W	ORK				\$	46,607.50

Devils Island

 Park:
 Apostle Islands National Lakeshore
 Reviewed By:

 Package:
 Devils Island Preferred Alternative
 Date:
 2///2011

learing ear forest to brush (stump removal not inc.) between K Q and Tower ear vegetation along shoreline to low brush ear forest to brush - west of Tower (stump removal not inc.) ear forest to lawn south of Tower ear forest at tram track corridor lear forest to brush (stump removal not inc.) at Tramway Engine Bldg ubtotal irculation aintain hiking trail and corridor to Boat House aintain hiking trails to East and West Landings abilize Irram tracks eppair concrete walks ubtotal ircultures	1.1 3.7 3.5 0.07 0.13 0.18 8.68 5600 4350 1600	acre acre acre acre acre	5 5 5 5 5 5	3,000.00 2,000.00 3,000.00 4,000.00 3,000.00 3,000.00	\$ \$ \$	3,300.00 7,400.00 10,500.00 280.00 390.00 540.00
lear forest to brush (stump removal not inc.) between K Q and Tower lear vegetation along shoreline to low brush lear forest to brush - west of Tower (stump removal not inc.) lear forest to lawn south of Tower lear forest to lawn south of Tower lear forest to brush (stump removal not inc.) at Tramway Engine Bldg lubtotal lirculation lirculation lirculation trail and corridor to Boat House lirculation trails to East and West Landings labilize tram tracks lear forest learn tracks lea	3.7 3.5 0.07 0.13 0.18 8.68 5600 4350	acre acre acre acre acre	\$ \$ \$	2,000.00 3,000.00 4,000.00 3,000.00	\$ \$	7,400.0 10,500.0 280.0 390.0 540.0
lear forest to brush (stump removal not inc.) between K Q and Tower lear vegetation along shoreline to low brush lear forest to brush - west of Tower (stump removal not inc.) lear forest to lawn south of Tower lear forest to lawn south of Tower lear forest to brush (stump removal not inc.) at Tramway Engine Bldg lubtotal lirculation lirculation lirculation trail and corridor to Boat House lirculation trails to East and West Landings labilize tram tracks lear forest learn tracks lea	3.7 3.5 0.07 0.13 0.18 8.68 5600 4350	acre acre acre acre acre	\$ \$ \$	2,000.00 3,000.00 4,000.00 3,000.00	\$ \$	7,400.0 10,500.0 280.0 390.0 540.0
ear vegetation along shoreline to low brush lear forest to brush - west of Tower (stump removal not inc.) ear forest to lawn south of Tower ear forest at tram track corridor lear forest to brush (stump removal not inc.) at Tramway Engine Bldg ubtotal irculation aintain hiking trail and corridor to Boat House aintain hiking trails to East and West Landings abilize tram tracks epair concrete walks ubtotal ircultures	3.7 3.5 0.07 0.13 0.18 8.68 5600 4350	acre acre acre acre acre	\$ \$ \$	2,000.00 3,000.00 4,000.00 3,000.00	\$ \$	7,400.0 10,500.0 280.0 390.0 540.0
lear forest to brush - west of Tower (stump removal not inc.) ear forest to lawn south of Tower ear forest to lawn south of Tower ear forest at tram track corridor ear forest to brush (stump removal not inc.) at Tramway Engine Bldg ubtotal irculation aintain hiking trail and corridor to Boat House aintain hiking trails to East and West Landings aibilize tram tracks epair concrete walks ubtotal ircultures	3.5 0.07 0.13 0.18 8.68 5600 4350	acre acre acre acre	\$ \$	3,000.00 4,000.00 3,000.00	\$ \$	10,500.0 280.0 390.0 540.0
lear forest to lawn south of Tower ear forest at tram track corridor ear forest at tram track corridor ear forest to brush (stump removal not inc.) at Tramway Engine Bldg ubtotal irculation aintain hiking trail and corridor to Boat House aintain hiking trails to East and West Landings abilize tram tracks epair concrete walks ubtotal ircutures	0.07 0.13 0.18 8.68 5600 4350	acre acre acre	\$	4,000.00 3,000.00	\$	280.0 390.0 540.0
iear forest at tram track corridor ear forest to brush (stump removal not inc.) at Tramway Engine Bldg ubtotal irculation aintain hiking trail and corridor to Boat House aintain hiking trails to East and West Landings aibilize tram tracks epair concrete walks ubtotal ircultures	0.13 0.18 8.68 5600 4350	acre acre If	\$	3,000.00	\$	390.0 540.0
lear forest to brush (stump removal not inc.) at Tramway Engine Bldg ubtotal irculation aintain hiking trail and corridor to Boat House aintain hiking trails to East and West Landings abilize tram tracks pepair concrete walks ubtotal ircutures	0.18 8.68 5600 4350	acre If If	\$		\$	540.0
ubtotal irculation aintain hiking trail and corridor to Boat House aintain hiking trails to East and West Landings abilize tram tracks epair concrete walks ubtotal	5600 4350	If If		3,000.00		
irculation aintain hiking trail and corridor to Boat House aintain hiking trails to East and West Landings abilize tram tracks epair concrete walks ubtotal tructures	5600 4350	lf	\$	-	S	22,410.0
aintain hiking trail and corridor to Boat House aintain hiking trails to East and West Landings abilize tram tracks epair concrete walks ubtotal tructures	4350	lf	\$			
aintain hiking trails to East and West Landings abilize tram tracks epair concrete walks ubtotal tructures	4350	lf	\$			
aintain hiking trails to East and West Landings abilize tram tracks epair concrete walks ubtotal tructures	4350	lf		2.75	S	15,400.0
abilize tram tracks epair concrete walks ubtotal tructures			\$	2.75		11,962.5
epair concrete walks ubtotal tructures	1	lf	\$	12.00		19,200.0
ructures		ls	\$	2,500.00		2,500.0
		15	Ψ	2,000.00	\$	49,062.
alakala arrana karran	1	ls	\$	4.000.00	6	4,000.0
aintain pump house aintain radio tower	1	ls	\$	1.000.00		1,000.0
aintain ragio tower aintain beacon light	1	ls Is	\$	1,000.00		1,000.
epair boat dock	1	ls	\$	20,000.00		20,000.0
aintain stone jetty	1	ls	\$	10,000.00		
ubtotal	1	IS	3	10,000.00	\$	10,000.0 36,000.0
mall Scale Features						
	- 1	le.	-	1 000 00	6	1,000.0
						10,000.0
epair masonry train terminal						1,000.0
aintain basin path of Tayes	-					1,000.
				1,000.00		1,000.
				-		
eistein fleanele						250.0
aintain nagpole						125.
						- :
						500.0
ubtotal		15	φ	300.00	\$	13,875.
andscape Plantings						
	- 1	le	\$	125.00	5	125.
aintain Ullan wast of Keepers Quarters						125.0
reserve lawn clearing	1	Is	\$	125.00	\$	125.
uhtotal					8	250.0
			10			
Subtotal Site Work					S	121,597.
					3	121,097.
maa aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	bitotal sall Scale Features bilize derrick footings pair masonry tram terminal move fencing at Fog Signal Building intain basin north of Tower tain footings north of Tower tain footings north of Tower tain oil tank footings south of Oil House 1 intain flagpole intain well head tain tramway anchor east of Tramway Engine Building tain solar panel tain fire pit intain stone wall at Boat House site bitotal ndscape Plantings intain ornamental planting bed at Oil House 2 intain liac west of Keepers Quarters inserve lawn cleaning	biblize derrick footings sall Scale Features biblize derrick footings pair masonry tram terminal move fencing at Fog Signal Building 1 imain basin north of Tower tain footings north of Tower tain footings north of Tower 1 intain flagpole intain aughle and tain ramway anchor east of Tramway Engine Building 1 intain wall head tain tramway anchor east of Tramway Engine Building 1 intain solar panel tain fire pit 1 intain stone wall at Boat House site bitotal ndscape Plantings intain ornamental planting bed at Cil House 2 1 intain lilac west of Keepers Quarters 1 bitotal bitotal	State Stat	State Stat	State Stat	State Stat

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2

Long Island

Park:	Apostle Islands National Lakeshore	Reviewed By:
Package:	Long Island Treatment Preferred Alternative	Date: 2/7/11

Item	Description	Quantity	Unit	Cost/Unit	Direct Cost
ivision 01					
ivision 02					
	Clearing				
	LaPointe				
	1 Clear trees to dune along shoreline		acre:	\$ 2,000.00	\$ 3,220.0
	2 Clear trees to dune (50' from Buildings)		acre	\$ 2,000.00	
	3 Clear trees to dune at radio beacon tower	0.02		\$ 2,000.00	
	Maintain clearing at footpath from LaPointe to south shoreline	0.26	acre	\$ 1,500.00	\$ 390.0
	Oxident Linkthouse			-	
	Original Lighthouse 1 Clear forest at lighthouse ruin area	1.00	acre	\$ 3,000.00	\$ 3,000.0
	Clear lorest at lighthouse turn area	1.00	acre	\$ 3,000.00	\$ 3,000.0
-	Chequamegon Point	1		+	
	1 Clear trees 50' from towers	0.00	acre	S -	\$ -
				1	7
	Reservation				
	Clear forest along walk comdor	1.66	acre	\$ 3,000.00	\$ 4,980.0
				100	
	Subtota	\$ 5.18			\$ 12,890.0
	Ever a recommendation of the second				
	Circulation/Site Accessibility				
	LePointe				
	1 Maintain Boat Dock in current location		ls	\$ 5,000.00	\$ 5,000.0
	2 Repair concrete walks		Is	\$ 2,500.00	
	3 New floating boardwalk across dune	1170		\$ 10.00	
	4 Remove boardwalk		Is	\$ -	\$ -
	5 Preserve corrugated metal path from LaPointe to south shoreline	- 3	ls	\$ 1,000.00	\$ 1,000.0
	Oranio (Linhihous)			+	
	Original Lighthouse 1 Investigate/locate additional historic walks under sand	—	Is	\$ 1,000.00	\$ 1,000.0
	I livestigateriocate additional historic walks under saird		15	\$ 1,000.00	\$ 1,000.0
	Chequamegon Point			+	
	1 Investigate/locate additional historic walks under sand	1	ls	\$ 1,000.00	\$ 1,000.0
	2 Repair concrete walks	1	ls	\$ 2,500.00	
	Reservation				
	1 Investigate/locate additional historic walks under sanc		Is	\$ 5,000.00	\$ 5,000.0
	Subtota	I			\$ 29,700.0
	Structures				
	LaPointe				
	1 Maintain Fog Signal Building foundation		Is	\$ 750.00	
	2 Stabilize Shed		Is	\$ 2,500.00	
	3 Remove Utility Units west of Fog Signal Building		Is	\$ 1,000.00	\$ 1,000.0
	4 Add new NPS restroom (vault)	- 0	Is	\$ 10,000.00	\$ -
	Opinion (t in 64) access			-	
	Original Lighthouse		ls	\$ 2,500.00	\$ 2,500.0
_	1 Stabilize Lighthouse Ruin 2 Repair Oil Building		ls.	\$ 2,500.00	
	3 Stabilize Privy		ls	\$ 2,500.00	\$ 2,500.0
	4 Stabilize Root Cellar		Is	\$ 2,500.00	\$ 2,500.0
	5 Retain Remnant Shed		Is	\$ -	\$ -
			-	1	
	Chequamegon Point			1	
	Maintain Old Light Tower in current location	21	ls	\$ -	\$ -
	2 Remove Light Tower	1	ls	\$ 5,000.00	\$ 5,000.0
	Subtota	1			\$ 19,250.0
	Small Scale Features				
	LaPointe				
	1 Maintain Cistem and Piping (add lockable top)	1	Is	\$ 2,500.00	
	2 Retain Concrete Footings - A (Steel Framed Radio Tower)		Is	\$ -	\$ -
	3 Retain Concrete Footings - B (Radio Beacon Tower)		Is	\$ -	\$ -
	4 Retain Remnant Rubble Pile 5 Retain Fuel Tank		ls	\$ -	\$ -
	6 Retain Septic Bed		ls Is	\$ -	\$ -
	7 Repair Flagpole		ls	\$ 2,000.00	\$ 2,000.0
	8 Preserve Pipe Crib		ls	\$ 2,000,00	\$ 2,000.0
		—		1	
	Chequamegon Point	1		1	
1	1 Retain Original concrete footing for Old Light Tower	9	Is	\$ -	\$ -
	2 Retain Rubble Crib Remnants		Is	\$ -	\$ -
	7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
	Reservation				
	1 Maintain Overhead Electric Line	6270	lf.	\$ -	\$ -
1	Subtota				\$ 4,500.0
	Landscape Plantings				
	Original Lighthouse				
	1 Maintain Cottonwoods (3) and Maple (1)	4	ea	\$ 150.00	
	Subtota	1			\$ 600.0
	SUBTOTAL SITE WORK				\$66,940.0

1

Sand Island

 Park:
 Apostle Islands National Lakeshore
 Reviewed By:

 Package:
 Sand Island Treatment Preferred Alternative
 Date: 27/11

Item	Description	Quantity	Unit	Cost	/Unit	Direc	t Cost
Division 01				3			
Division 02				- 8			
	Clearing						
	1 Clear forest to brush (stump removal not inc.)	0.58	acre	S	3,000.00	\$	1,740.00
	2 Clear forest to lawn (inc. stump removal)	0.45	acre	\$	4,000.00	\$	1,800.00
				9			
	Subtotal	1.03				\$	3,540.00
	Circulation						
	1 Repair wooden staircase to landing	1	ls	\$	2,500.00	\$	2,500.00
	2 Widen concrete walks (140 lf)	280	sf	\$	6.00		1,680.00
	3 Maintain East Bay trail and cleared corridor (2 miles, 8' width)	2	mile	\$	1,750.00	\$	3,500.00
	Subtotal					\$	7,680.00
	Small Scale Features						
	1 Relocate Solar Panel	1	ls	S	750.00	\$	2.000.00
	2 Remove Fuel Tank	1	ls	S	1,000.00	\$	2,000.00
	3 Retain and Monitor Dump Sites	1	ls	S	500.00		500.00
	4 Relocate Fire Pit	1	ls	\$	250.00	\$	250.00
	5 Remove Flagpole	1	ls	S	500.00	\$	500.00
	6 Remove Stone North Arrow	1	ls	\$	125.00	\$	125.00
	7 Remove and Replace Wooden Headwall	1	ls	\$	500.00	\$	500.00
	Subtotal					\$	5,875.00
	Station Vegetation			_			
	1 Remove non-contributing tree	2	ea	\$	750.00	\$	1,500.00
	2 Remove non-contributing vegetation	1	ls	S	750.00	\$	750.00
	3 Maintain lilacs	3	ea	S	125.00	\$	375.00
	4 Clear garden for plantings	1	Is	\$	500.00		500.00
	5 Restore missing garden features (fencing)	140	lf	S	10.00	\$	1,400.00
	6 Remove invasive plant materials from landscape	1	ls		\$1,500.00		\$2,500.00
	Subtotal					\$	7,025.00
	Subtotal Site Work					\$	24,120.00

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APPENDIX A

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PHASING

The park has expressed interest in phasing the overall project and will likely be required due to the budget constraints regardless.

The CLR/HSR recommendations generally follow the outcome of the May 2010 VA/CBA. Due to budget considerations, a second VA/CBA was held in December 2010 which used the May 2010 Preferred Alternative as a basis but reduced the scope to meet the available funding. The following is a list of items the first phase will include. As construction funds allow, the park will initiate the remainder of the CLR/HSR recommendations.

To date, Phase 1 generally includes:

- Focus on three islands: Michigan, Outer, Sand and Devils (no work on Long Island other than the roof of the Triplex.)
- Emphasis on large-scale landscape and major buildings
- Light station site accessibility (only between buildings park to further study island access)
- Supports some volunteer or staff occupancy
- Supports visitor access (to most major buildings)

Please refer to the following spreadsheet which was included in the December 2010 VA Report as the preferred alternative.

Note that only shaded cells of the third column are included in the scope.

APPENDIX A

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Preferred Alternative:

Michigan, Outer, Long, Sand Islands with stabilization at Devils

- Overall Island Assumptions:
 -Focus on (4) islands: Michigan, Outer Devils and Sand
 -Triplex work on Long, by Park
 -Emphasis on large-scale landscape and major buildings
 -Includes localized site accessibility where noted

- -Supports volunteer or staff occupancy -No lead soil mitigation

MICHIGAN ISLAND

	Designation of the last of the		C		
	Quantity	Total Net	CLR/H5R Report	CLR/HSR Report Priority	Change from 2010.12.16 VA?
SITE/CULTURAL LA	ANDSCAPE		1		
Site Clearing	4 ACRES	\$103,101	POOR	SEVERE	N
Site Circulation/ Accessibility	1 LS	\$96,652	FAIR	MODERATE	N
Site Structures	1 LS	\$72,334	POOR	LOW	N
Small Scale Site Features	1LS	\$8,549	GOOD	LOW	N
Reservation Vegetation	1LS	\$6,576	FAIR to POOR	MODERATE	N
Station Vegetation	1LS	\$71,743	POOR	MODERATE	N
New Boat Dock	1	\$500,000			N

OLD MICHIGAN ISLAND LIGHTHOUSE

Replace Interior

Quantity CLR/H5R CLR/HSR Report Report Condition ARCHITECTURAL Hazmat Mitigation: Asbestos, lead MODERATE and LOW Y (refined hazmat \$, post-VA) containing paint, lead dust, lead in sails, mold and bat mitigation) guano were identified or assumed to be present. Roof Removal and Replacement \$38,646 POOR. SEVERE Repair Plaster and FAIR Repoint and Coat Masonry, Exterior Walls Install Rain gutter MODERATE 120 LF \$15,056 N/A POOR SEVERE Opening Install Exterior 11 SF \$1,840 FAIR SEVERE N Stairs Remove and

POOR

SEVERE

\$858,955

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Refinish Existing Millwork	15 LF	\$6,273	GOOD to	MODERATE	И
Install Handrails in Tower and Kitchen Entry	86 LF	\$21,580	FAIR	SEVERE	И
Install Security Gate at Tower Base	1 EA	\$3,625			И
Install New Glazing, Reinstall Glazing in Windows; Repaint Frames and Sash	55 SF; 164 SF; 219 SF	\$30,098	FAIR.	MODERATE	N
Paint Tower Roof and Trim	50 SF	\$836	FAIR	MODERATE	N
Paint Miscellaneous	1LS	\$5,261			И
STRUCTURAL	24.	No. of the last of			
Reinforce Existing Floor Structure	62 SF	\$6,050	FAIR	SEVERE	И
Reinforce Existing Roof Structure	SS SF	\$4,600	GOOD	UNKNOWN	и
MECHANICAL					
Remove Plumbing Fixtures and Piping	1 LS; 2 EA	\$4,182	FAIR to POOR	LOW	N
Remove Bailer and Piping, Remove Radiators	1 EA; 2 EA	\$10,316	FAIR	LOW	И
HVAC - Increase Ventilation	2,154 SF	\$51,049	FAIR and POOR	SEVERE	И
ELECTRICAL			12.000	•	
Remove Light Fixtures and Receptacles; Install Photovoltaic System	20 EA; 2,154 SF	\$39,240	POOR	SEVERE	N
Replace Lightning Protection System	1,459 SF	\$16,272	FAIR to POOR	SEVERE	N

\$591.751

1

SECOND TOWER	uae s			241	
	Quantity	Total Net	CLR/H5R Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL		111111			
Hazmat Mitigation Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1 LS	\$13,150 (No lead soil mitigation)		MODERATE and LOW	Y - refined hazmat \$
Roof Repair	280 SF	\$5,465	GOOD	LOW	N
Remove Exterior Plexiglass Window	10 SF	\$223	FAIR.	MODERATE	И
Paint Soffit and Trim	50 SF	\$1,673	GOOD	LOW	N
Install Security Gate at Tower Base	1 EA	\$3,625			И
Install New Glazing in Windows; Repaint Frames and Sash	10 SF; 72 SF	\$5,949	FAIR	MODERATE	N
Paint Miscellaneous	1 LS	\$1,315			И
STRUCTURAL			1701		
Repair Existing Column Bases	2EA	\$16,729	GOOD	UNKNOWN - Need to investigate cracked columns.	и
MECHANICAL					
Replace or Repair Brass Vent Caps, Increase Passive Ventilation	8 E.A., 262 SF	\$8,113	FAIR.	MODERATE	И
ELECTRICAL					
Inspect and Replace Lightning Protection System	262 SF	\$4,383	FAIR	MODERATE	й.

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KEEPERS QUARTER	15				
	Quantity	Total Net	CLR/HSR Report	CLR/HSR Report Priority	Change from 2010.12.16 VA?
			Condition		
ARCHITECTURAL Hazmat Mitigation:	1LS	\$125,615	T	MODERATE and	Y- revised hazmat \$,
Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	ILS	φ123 ₁ 013		LOW	y-revised nazmat 5, based on information/discussi on w hazmat consultant, after VA
Roof Removal and Replacement	1,105 SF	\$29,269	POOR	SEVERE	И
Clean and Repair Exterior Brick	2,245 SF	\$15,781	GOOD	MODERATE	И
Refinish Wood Porch	126 SF	\$10,539	GOOD	LOW	И
Paint Exterior Siding and Trim	200 SF	\$12,268	FAIR	LOW	и
Paint Soffit and Trim	441 SF	\$4,304	FAIR	LOW	И
Install Handrails at Stairs	70 LF	\$17,565	FAIR	SEVERE	и
Repaint Window Frames and Sash	200 SF	\$1,394	GOOD	LOW	N
Refinish Existing Wood Flooring	1,782 SF	\$24,843	FAIR	MODERATE	И
Remove and Replace Interior Finishes	4,667 SF	\$65,516	GOOD	MODERATE	N
Paint Miscellaneous	1LS	\$5,261			и
STRUCTURAL					
Concrete Slab Infill, Concrete Ramp and Railings (Back Door Landing)	110 SF	\$26,627	FAIR.	SEVERE	N
Reinforce Existing Floor Structure	56 SF	\$5,465	GOOD	LOW	И
Reinforce Existing Roof Structure	921 SF	\$30,815	GOOD	LOW	и
MECHANICAL					
HVAC - Increase Ventilation	1,932 SF	\$45,787	FAIR	MODERATE	N
Remove and replace propane piping	175 LF	\$8,434	GOOD	MODERATE	И
ELECTRICAL			200		700
Replace Lightning Protection System	1,105 SF	\$12,324	FAIR	MODERATE	И
Ventilation - Existing PV System Expansion	1,932 SF	\$32,320	FAIR	MODERATE	И

\$474,127

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ASSISTANT KEEPER	S QUARTER	5 & WORKSHO	iP.	40	
	Quantity	Total Net	CLR/HSR Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL		Market L			
Hazmat Mitigation: Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$47,422 (No lead soil mitigation)		LOW	Y - refined hazmat \$
Roof Removal and Replacement	714 SF	\$18,912	POOR	SEVERE	И
Install Rain gutter and Downspouts	S4 LF	\$6,775	POOR	MODERATE	N
Paint Exterior Siding and Trim	1,134 SF	\$7,904	GOOD	LOW	И
Paint Soffit and Trim	415 SF	\$4,050	GOOD	LOW	N
Install New Glazing, Repaint Window Frames and Sash	50 SF, 98 SF	\$13,678	FAIR	LOW	N
Paint Miscellaneous	1 LS	\$2,630			N
STRUCTURAL .				•	
Reinforce Existing Roof Structure	34 SF	\$2,844	UNKNOWN	MODERATE	И
MECHANICAL		***********		2000	2015
Cap Unused Piping	1 LS	\$2,630	POOR	LOW	И
HVAC - Increase Ventilation	778 SF	\$18,438	POOR	MODERATE	И
ELECTRICAL			100		
Replace Feeder Circuitry	778 SF	\$7,592	POOR	MODERATE	N
Ventilation - PV System	778 SF	\$13,015	POOR	MODERATE	И

\$145,890

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POWER HOUSE					
	Quantity	Total Net	CLR/HSR Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL					
Hazmat Mitigation: Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$34,248 (No lead soil mitigation)		LOW	Y - refined hazmat \$
Roof Removal and Replacement	779 SF	\$20,634	POOR.	SEVERE	N
Install Rain gutter and Downspouts	88 LF	\$11,041	N/A - None existing.	SEVERE	N
Repair Exterior Brick	175 SF	\$9,759	GOOD	LOW	N
Paint Soffit and Trim	56 SF	\$546	N/A	LOW	И
Repair Stairs	1 LS	\$2,630	GOOD	LOW	N
Install New Glazing, Repaint Window Frames	40 SF, 40 SF	\$8,588	FAIR	LOW	N
and Sash Paint Miscellaneous	1 LS	\$2,630			И
STRUCTURAL					
Repair Existing Roof Structure	110 SF	\$9,201	GOOD	LOW	И
MECHANICAL			6.10		
Replace Tram Hoist	1EA	\$21,000	POOR	SEVERE	Randy Ross to verify; \$16,200 is base cost (not installed)
HVAC - Increase Ventilation	832 SF	\$19,718	FAIR to POOR	MODERATE	И
ELECTRICAL	-1.			*	
Replace Branch Circuitry	832 SF	\$11,599	POOR	LOW	N
Ventilation - Existing PV System Expansion	832 SF	\$13,919	GOOD	MODERATE	И
Overcurrent Protection	1LS	\$3,156	GOOD	MODERATE	И

\$168,669

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SHED — Exterior St		LEGISTRO MANAGEMENT			
	Quantity	Total Net	CLR/HSR Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL					
Hazmat Mitigation: Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$18,442		LOW	Y- revised hazmat \$, based on information/discussi on w hazmat consultant, after VA
Roof Removal and Replacement	444 SF	\$18,570	POOR	SEVERE	N
Install New Glazing, Repaint Window Frames and Sash	25 SF, 25 SF	\$5,367	POOR	MODERATE	N

\$42,379

Total for Michigan Island	
D. Call	62 242 2DC
Pref Alt.:	\$2,542,396

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OUTER ISLAND

DUTER ISLAND TO	JTER ISLAND TOWER					
	Quantity	Total Net	CLR/HSR Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?	
ARCHITECTURAL			No. 10			
Hazmat Mitigation Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$20,000 (assoc. paint)		MODERATE and LOW	N	
Exterior Wall - Repoint/Seal Masonry	3,192 SF	\$64,549	FAIR to POOR	MODERATE	N	
Install Handrails	17 LF	\$4,420	POOR.	MODERATE	И	
Patch Roof Rust	65 SF	\$751	FAIR	MODERATE	И	
Paint, Roof and Trim	65 SF	\$2,253	FAIR to POOR	MODERATE	N	
Paint, Exterior Siding and Trim	3,192 SF	\$23,053	FAIR to POOR	MODERATE	N.	
Install New Glazing; Reinstall Glazing in Windows; Repaint Frames and Sash	3 SF; 150 SF	\$10,506	GOOD	LOW	N	
Paint Miscellaneous	1 LS	\$1,363			N	
STRUCTURAL	7.7					
Monitor Existing Cracks	1 LS	\$5,451	GOOD	LOW	И	
MECHANICAL						
HVAC - Increase Ventilation - Passive	95 SF	\$2,744	FAIR and POOR	MODERATE	И	
ELECTRICAL	9.5		0.00			
Inspect/Replace Lightning Protection System	95 SF	\$2,196	FAIR to POOR	MODERATE	И	

\$137,286

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2

KEEPERS QUARTER	112227100000000000000000000000000000000				
	Quantity	Total Net	CLR/HSR Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL					
Hazmat Mitigation: Asbestos, lead containing paint, lead dust, lead in suils, and mold were identified or assumed to be present.	1LS	\$30,000 (assoc. paint)		MODERATE and LOW	Y - reduced, based on discussion w hazmat consultant, after VA
Exterior Wall - Repoint / Seal Masonry	2,204 SF	\$44,569	GOOD	MODERATE	и
Install Handrails	40 LF	\$10,400	POOR	LOW	И
Chimney Liner	37 SF	\$10,689	FAIR	LOW	No
Windows, Repaint Frames and Sash	21 6 SF	\$13,728	GOOD	MODERATE	N
Wood Flooring, Refinish Existing	1,779 SF	\$25,696	GOOD to FAIR	MODERATE	И
Paint, Roof & Trim	243 SF	\$2,457	GOOD	MODERATE	И
Paint, Soffit & Trim	339 SF	\$3,428	GOOD	LOW	И
Paint, Exterior Siding & Trim	224 SF	\$1,618	GOOD	LOW	N/A
Paint Miscellaneous	1LS	\$5,451	1.=		и
MECHANICAL	W		2.00	l.	
HVAC, Increase Ventilation	2,494 SF	\$61,241	FAIR	SEVERE (Chimney Liner); MODERATE (Ventilation/Piping)	N
ELECTRICAL		THE PERSON NAMED IN			
Replace Lightning Protection System	1,222 SF	\$14,121	FAIR to POOR	MODERATE	И
Photovoltaic System (Ventilation)	2,494 SF	\$43,229	POOR -	MODERATE	N ÷

\$266,627

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3

Volume I

FOG SIGNAL BUILD	ING				
	Quantity	Total Net	CLR/H5R Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL		1000000			
Hazmat Mitigation Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$20,000		MODERATE and LOW	N
Install Handrails	20 LF	\$5,200	POOR	LOW	И
Roofing, Repair Existing	1,290 LF	\$11,180	GOOD	LOW	И
Windows, Paint Frame & Sash	96 SF	\$6,101	FAIR	MODERATE	N®
Paint, Soffit & Trim	333 SF	\$3,367	FAIR	LOW	И
Paint Stairs	1 FLT	\$2,889	GOOD to FAIR	LOW	N
Paint Miscellaneous	1LS	\$2,725			N
STRUCTURAL					
Reinforce Existing Roof Structure	210 SF	\$7,280	GOOD	LOW	N
MECHANICAL		No. of Contract of			
Tram Huist, Replace	1 EA	\$21,000	POOR	SEVERE	Randy Ross to verify; \$16,200 is base cost (not installed)

\$79,742

OIL STORAGE					
	Quantity	Total Net	CLR/H5R Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL					
Hazmat Mitigation: Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$500		LOW	N.
Exterior Wall - Repair & Repoint Brick	261 SF	\$7,540	FAIR	LOW	И

\$2.040

1 2 3

PRIVY					
	Quantity	Total Net	CLR/HSR Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL		11111			
Hazmat Mitigation: Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$1,000		LOW	N
Exterior Wall - Repair Brick	132 SF	\$3,813	FAIR	LOW	И
Roofing, Repair Existing	S6 LF	\$485	FAIR to POOR	MODERATE	И
Windows, Paint Frame & Sash	3 SF	\$381	FAIR	LOW	И
Paint, Exterior Siding & Trim	135 SF	\$1,950	FAIR	LOW	И

\$7,629

A	Total for Outer Island	P.
	Deaf Alk -	éann 274

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DEVILS ISLAND

	Committee	Total Net	CLR/H5R	CLO (LICO December)	Change from
	Quantity	I otal Net	Report Condition	CLR/H5R Report Priority	2010.12.16 VA?
ARCHITECTURAL					
Hazmat Mitigation Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1 LS	\$52,600 (No lead soil mitigation)		MODERATE	refined hazm at \$
Install Handrails	42 elf	\$10,539	FAIR	MODERATE	N
Windows, New Glazing	150 LF	\$23,002	GOOD	MODERATE	N
Windows, Paint Frame & Sash	153 SF	\$9,385	GOOD to FAII	MODERATE	N
Paint, Exterior Trim	1,794 SF	\$12,505	GOOD	MODERATE	N
Paint Roof Rust	94 SF	\$1,048	FAIR.	SEVERE	N
Paint, Roof & Trim	94 SF	\$3,145	FAIR	SEVERE	N
Paint Miscellaneous	1LS	\$1,315			N

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	11				
Foundation, Repair Cracks	576 SF	\$32,120	POOR (visible portion)	UNKNOWN (evaluate further)	N
Additional Investigation, Allowance	1LS	\$26,303	8		N
MECHANICAL	396	*	10.07		
HVAC - Increase Ventilation (Passive)	223 SF	\$3,109	FAIR	MODERATE	N
ELECTRICAL	2412		F-100		
Inspect/Replace Lightning Protection System	223 SF	\$2,487	FAIR to POOR	MODERATE	N

177 558

	Quantity	Total Net	CLR/H5R	CLR/HSR Report	Change from
	-2		Report	Priority	2010.12.16 VA?
			Condition		
ARCHITECTURAL					
Hazmat Mitigation Asbestos, lead containing paint, lead dust, lead in sails, and mold were identified or assumed to be present.	1 LS	\$50,000 (Na lead sail mitigation)		MODERATE	
	44. am	** ***			N
Remove Floor Decking & Structure	66 SF	\$3,312	FAIR	MODERATE	N
Remove Roofing, Shingles	70 SF	\$1,171	GOOD to FAIR	LOW	N
Exterior Wall - Repoint Masonry	3,040 SF	\$59,332	GOOD	LOW	N
Roof Shingles, Wood	72 SF	\$3,212	GOOD to FAIR	LOW	N
Windows, Paint Frame & Sash	190 SF	\$11,655	FAIR to POOR	SEVERE	N
Paint, Soffit & Trim	452 SF	\$4,411	GOOD	LOW	N
STRUCTURAL					
Wood Floor Decking & Structure	66 SF	\$9,201	FAIR	MODERATE	N
MECHANICAL		111			
HVAC, Increase Ventilations	2,373 SF	\$56,239	FAIR	MODERATE	N
ELECTRICAL		10.00			
Inspect and Replace Lightning Protection System	921 SF	\$10,272	FAIR to POOR	MODERATE	N
Photovoltaic System (Ventilation)	2,373 SF	\$39,698	FAIR	MODERATE	N

\$248,50

1 2

ASSISTANT KEEPER	S QUARTER	5		42	
	Quantity	Total Net	CLR/HSR Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL		1000000			1
Hazmat Mitigation Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$50,000 (No lead soil mitigation)		MODERATE and LOW	Y - reduced, based on discussion w hazmat consultant, after VA
Exterior Wall - Repoint Masonry	86 SF	\$3,357	GOOD	MODERATE	N
Windows, Paint Frame & Sash	198 SF	\$12,145	GOOD to FAIR	MODERATE	N
Paint, Roof & Trim	1,198 SF	\$11,691	GOOD	LOW	N
Paint, Soffit & Trim	341 SF	\$3,328	FAIR.	LOW	N
STRUCTURAL					
Wood Floor Decking & Structure	81 SF	\$1,292	FAIR.	SEVERE	N – but this number has been reduced to reflect Park's role in the work
Floor Structure, Reinforce Existing	S4 SF	\$5,270	FAIR.	SEVERE	N
MECHANICAL			NOTE:		
HVAC, Increase Ventilation (Passive) ELECTRICAL	2,153 SF	\$30,015	FAIR to POOR	MODERATE	N
Inspect and Replace Lightning Protection System	262 SF	\$24,012	FAIR to POOR	MODERATE	N

\$141,110

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	Quantity	Total Net	CLR/H5R	CLR/HSR Report	Change from
	Quantity	Total Net	Report Condition	Priority	2010.12.16 VA?
ARCHITECTURAL		Interes of			1
Hazmat Mitigation: Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$20,000 (No lead soil mitigation)		MODERATE	Y - reduced, based on discussion w hazmat consultant, after VA
Exterior Wall - Repoint Masonry	126 SF	\$4,918	GOOD	LOW	N
Exterior Wall - Repair Existing	200 SF	\$5,576	GOOD (shingles); POOR (foundation brick)	LOW	N
Roofing, Repair Existing	1,222 SF	\$10,221	GOOD to FAIR	LOW	N
Windows, Paint Frame & Sash	108 SF	\$6,625	FAIR to POOR	MODERATE	N
	1 222 SF	\$10,221	GOOD	LOW	N

\$57,561

	Quantity	Total Net	CLR/HSR Report	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL			Condition		
Hazmat Mitigation: Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$5,000 (No lead sail mitigation)			N
Exterior Wall - Repair Existing	1,070 SF	\$14,917	GOOD to FAIR	LOW	N

\$19,917

ı	Total for Devils Island	
ı	Pref. Alt.:	\$644,649

1

2

LONG ISLAND

TRIPLEX	202				
	Quantity	Total Net	CLR/H5R Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
ARCHITECTURAL					1
Rehabilitation per Park Decision		\$92,295	/A		Y - per Park discussions
Reroof	-	\$57,705			

\$150,000

Total for Long Island Pref.	
Alt -	\$150,000

1

2

SAND ISLAND

SAND ISLAND SIT	E				
	Quantity	Total Net	CLR/HSR Report Condition	CLR/HSR Report Priority	Change from 2010.12.16 VA?
SITE/CULTURAL L	ANDSCAPE		100		
Site Clearing	1 ACRE	\$8,680	POOR	SEVERE	N
Site Circulation/ Accessibility	1LS	\$20,592 (Accessible boardwalk not included)	FAIR.	MODERATE	N

\$29,272

3	Quantity	Total Net	CLR/HSR	CLR/HSR Report	Change from
	Quantity	Total Net	Report	Priority	2010.12.16 VA?
ARCHITECTURAL			The Art		
Hazmat Mitigation: Asbestos, lead containing paint, lead dust, lead in soils, and mold were identified or assumed to be present.	1LS	\$100,000 (No lead soil mitigation)		MODERATE	
Repair or Remove Finishes	2,132 SF	\$14,861	GOOD to FAIR to POOR	MODERATE	
Wood Ramp, ADA	16 SF	\$5,576	POOR	MODERATE	
Install Handrails	42 L F	\$10,539	GOOD to FAIR	SEVERE	
Millwork, Refinish Existing	15 LF	\$6,273	GOOD to FAIR to POOR	LOW	
Windows, Paint Frame & Sash	314 SF	\$13,132	GOOD to FAIR	MODERATE	
Door, Refinish & Replace Hardware -	17 LEAF	\$33,179	GOOD	MODERATE	

1

2

Rain gutter &	156 LF	\$19,573	POOR	SEVERE	
Downspouts		10. M			
Wood Flooring,	1,384 SF	\$19,294	GOOD to	LOW	
Refinish Existing			FAIR to		
NAMES OF A CONTROL OF THE OWNER.			POOR		
Flooring, Repair	192 SF	\$1,606	GOOD to	LOW	
Existing		1.00	FAIR to		
			POOR.		
Paint & Repair	3,078 SE	\$34,328	GOOD to	MODERATE	
Plaster, Interior	THE WILLDESING	Southern Service	FAIR to	CONTRACTOR POSTS	
Wall & Ceiling	4		POOR.		
Paint, Stairs	1 FLT	\$2,788	GOOD to	MODERATE	
			FAIR	2002.000 0 190.00 2000 W*V*I	
Paint Miscellaneous	1LS	\$5,261	next so the		
STRUCTURAL		F. STAN			,
Floor Sheathing	99 SF	\$1,656	GOOD	LOW	
Floor Structure.	96 SF	\$9,368	GOOD	LOW	
Reinforce Existing	in the trans	31,000			
Roof Structure.	272 SF	\$15,168	UNKNOWN	UNKNOWN (evaluate	
Reinforce Existing	GMS/SGA		F-24363055445.1	further)	
MECHANICAL	A		1000	t: 0	
Remove Piping	20 LF	\$1.115	FAIR to	MODERATE	
		13,500	POOR		
Cistern - Clean,	1EA	\$13,941	FAIR to	MODERATE	
Paint & Seal	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	80000000	POOR.		
Existing			10011		
HVAC - Increase	2.132 SF	\$50,527	GOOD	MODERATE	
Ventilation		***************************************	7 7 7 7 7 7 7		
ELECTRICAL		-			
Replace Lightning	2.132 SF	\$23,777	POOR.	LOW	
Protection System		555 C.	3.555	DEWS 1	
Photovoltaic System	2.132.SE	\$35,666	FAIR	MODERATE	
(Ventilation)		123,000	17111		
Overcurrent	1LS	\$6,576	N/A	MODERATE	
Protection					1

424, 204

Total for Sand Island Pref.	
Alt.:	\$453,476

PREFERRED	
ALTERNATIVE	
TOTAL:	\$4,089,845

APPENDIX B: ACCESSIBILITY PLAN FOR RASPBERRY, MICHIGAN, OUTER, DEVILS, LONG AND SAND ISLANDS, JUNE 8-10, 2010

APPENDIX B