

## **FAC 1552 Small Craft Building**

RUC: \$30.11 SF

Source: Marshall & Swift, Section 17, Page 18, 2005  
Boat Storage Building, Class "S" "Good"  
Inflated to FY-08 using actual inflation, projected to FY-09 using Green Book  
In V12, Tri-Service and USACE PAX Newsletter values were updated while all other values were inflated only.

SUC: \$1.49 SF

Source: Cost Works model, inflated to FY-09 using Green Book Table 5-6 (O&M less DHP)  
In V12, values were inflated only.  
Model follows:

Chart: A chart showing relative annual sustainment requirements follows:

**FAC 1552-Small Craft Building**  
**CostWorks 2008 Quarter 2**

Design Life= 37  
Average S.F= 3,175

C.S.F=100 S.F; MSF=1000 S.F  
Sq=100 S.F; M.L.F=1000 L.F

This spreadsheet was  
exported from R.S Means  
CostWorks

Terminal Cutoff is the removal of a single task occurrence if that task occurs  
within 10% of the end of the design life and if the frequency of the task exceeds  
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design life

Description	Frequency	Crew	Qty	Unit	Total In-House	Total Incl. O&P	Release	Occurrences in Design Life	Adjusted Occurrences	Terminal Cutoff
Replace aluminum siding - 1st floor	35	1 Carp	27.050	C.S.F.	12,285.30	14,746.58	2008 Qtr 2	1	0	\$ -
Refinish aluminum siding - 1st floor	20	1 Pord	27.050	C.S.F.	4,087.80	5,040.50	2008 Qtr 2	1	1	\$ 5,040.50
Replace aluminum siding - 2nd floor	35	1 Carp	25.060	C.S.F.	14,132.59	17,027.77	2008 Qtr 2	1	0	\$ -
Refinish aluminum siding - 2nd floor	20	1 Pord	25.060	C.S.F.	5,890.85	7,226.55	2008 Qtr 2	1	1	\$ 7,226.55
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	1 Carp	4.000	Ea.	459.84	544.80	2008 Qtr 2	1	1	\$ 544.80
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	1 Carp	4.000	Ea.	1,754.40	2,051.96	2008 Qtr 2	0	0	\$ -
Replace glass - 1st floor (1% of glass)	1	1 Carp	0.240	S.F.	2.17	2.55	2008 Qtr 2	37	37	\$ 94.31
Repair 12' x 12' steel roll-up door	10	1 Carp	1.000	Ea.	832.61	964.54	2008 Qtr 2	3	3	\$ 2,893.62
Refinish 12' x 12' steel roll-up door	5	1 Pord	1.000	Ea.	168.83	205.54	2008 Qtr 2	7	7	\$ 1,438.78
Replace 12' x 12' steel roll-up door	35	2 Carp	1.000	Ea.	3,325.27	3,849.55	2008 Qtr 2	1	0	\$ -
Repair steel, painted, door	14	1 Carp	1.000	Ea.	582.44	686.36	2008 Qtr 2	2	2	\$ 1,372.72
Refinish 3'-0" x 7'-0" steel, painted, door	4	1 Pord	1.000	Ea.	32.91	40.31	2008 Qtr 2	9	9	\$ 362.79
Replace 3'-0" x 7'-0" steel, painted, door	45	1 Carp	1.000	Ea.	532.08	620.04	2008 Qtr 2	0	0	\$ -
Debris removal by hand & visual inspection metal steep roofing	1	2 Rofc	3.175	M.S.F.	56.36	67.95	2008 Qtr 2	37	37	\$ 2,513.97
Total metal panel replacement metal steep roofing	30	2 Rofc	31.750	Sq.	21,028.98	25,003.44	2008 Qtr 2	1	1	\$ 25,003.44
Minor finish repairs - (2% of roof area) metal steep roofing	5	2 Rofc	63.500	S.F.	172.09	204.47	2008 Qtr 2	7	7	\$ 1,431.29
Flashing replacement - (2 S.F. per sq. repaired) metal steep roofing	5	2 Rofc	1.270	S.F.	18.34	22.01	2008 Qtr 2	7	7	\$ 154.06
Minor replacement - (2.5% of roof area) metal steep roofing	20	2 Rofc	79.380	S.F.	709.66	843.02	2008 Qtr 2	1	1	\$ 843.02
Repair steel painted interior door	14	1 Carp	2.000	Ea.	335.50	396.28	2008 Qtr 2	2	2	\$ 792.56
Refinish 3'-0" x 7'-0" steel painted interior door	4	1 Pord	2.000	Ea.	98.80	121.64	2008 Qtr 2	9	9	\$ 1,094.76
Replace 3'-0" x 7'-0" steel painted interior door	60	1 Carp	2.000	Ea.	1,875.08	2,179.92	2008 Qtr 2	0	0	\$ -
Repair solid core wood door interior	11	1 Carp	2.000	Ea.	335.50	396.28	2008 Qtr 2	3	3	\$ 1,188.84
Refinish 3'-0" x 7'-0" solid core wood door interior	4	1 Pord	2.000	Ea.	84.44	103.96	2008 Qtr 2	9	9	\$ 935.64
Replace 3'-0" x 7'-0" solid core wood door interior	40	1 Carp	2.000	Ea.	733.40	850.24	2008 Qtr 2	0	0	\$ -
Refinish drywall	8	1 Pord	200.000	S.F.	120.00	148.00	2008 Qtr 2	4	4	\$ 592.00
Replace 5/8" drywall	75	2 Carp	200.000	S.F.	446.00	538.00	2008 Qtr 2	0	0	\$ -
Repair 5/8" drywall - (2% of walls)	20	1 Carp	4.000	S.F.	6.36	7.64	2008 Qtr 2	1	1	\$ 7.64
Refinish concrete floor finished	25	2 Cefi	0.317	C.S.F.	110.77	133.36	2008 Qtr 2	1	1	\$ 133.36
Unplug clogged line flush-tank water closet	5	1 Plum	1.000	Ea.	168.26	210.18	2008 Qtr 2	7	7	\$ 1,471.26
Replace washer / diaphragm in ball cock flush-tank water closet	5	1 Plum	1.000	Ea.	14.07	17.40	2008 Qtr 2	7	7	\$ 121.80
Replace valve and ball cock assembly flush-tank water closet	15	1 Plum	1.000	Ea.	74.94	92.68	2008 Qtr 2	2	2	\$ 185.36
Install gasket between tank and bowl flush-tank water closet	20	1 Plum	1.000	Ea.	30.83	38.53	2008 Qtr 2	1	1	\$ 38.53
Replace two piece water closet flush-tank	35	2 Plum	1.000	Ea.	417.35	496.36	2008 Qtr 2	1	0	\$ -
Replace one piece water closet flush-tank	35	2 Plum	1.000	Ea.	661.13	770.73	2008 Qtr 2	1	0	\$ -
Replace flush valve diaphragm urinal	7	1 Plum	1.000	Ea.	70.74	83.06	2008 Qtr 2	5	5	\$ 415.30
Rebuild flush valve urinal	20	1 Plum	1.000	Ea.	131.98	160.01	2008 Qtr 2	1	1	\$ 160.01

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Unplug line urinal	5	1 Plum	1.000	Ea.	112.14	139.91	2008 Qtr 2	7	7	\$ 979.37
Replace wall-hung urinal	35	2 Plum	1.000	Ea.	841.63	1,006.57	2008 Qtr 2	1	0	\$ -
Unclog floor drain, PVC	20	1 Plum	1.000	Ea.	37.09	45.87	2008 Qtr 2	1	1	\$ 45.87
Repair joint pipe and fittings, PVC	10	1 Plum	1.000	Ea.	115.94	144.14	2008 Qtr 2	3	3	\$ 432.42
Replace pipe, 4" pipe and fittings, PVC	30	2 Plum	8.000	L.F.	473.60	585.52	2008 Qtr 2	1	1	\$ 585.52
Replace roof mounted exhaust fan, 8500 CFM exhaust fan	20	Q20	1.000	Ea.	2,619.48	3,050.64	2008 Qtr 2	1	1	\$ 3,050.64
Repair fan coil unit, 1 ton	10	1 Stpi	1.000	Ea.	369.22	441.02	2008 Qtr 2	3	3	\$ 1,323.06
Replace fan coil unit, 1 ton	15	Q5	1.000	Ea.	1,098.30	1,295.56	2008 Qtr 2	2	2	\$ 2,591.12
Minor repairs to fire alarm control panel	5	1 Elec	1.000	Ea.	107.84	130.97	2008 Qtr 2	7	7	\$ 916.79
Maintenance and inspection fire alarm control panel	0.5	1 Elec	1.000	Ea.	30.54	38.17	2008 Qtr 2	74	74	\$ 2,824.58
Replace fire alarm control panel	15	1 Elec	1.000	Ea.	2,615.62	3,107.84	2008 Qtr 2	2	2	\$ 6,215.68
Replace sprinkler head	20	1 Plum	32.000	Ea.	2,037.76	2,510.72	2008 Qtr 2	1	1	\$ 2,510.72
Inspect sprinkler system	1	1 Plum	1.000	Ea.	26.55	32.89	2008 Qtr 2	37	37	\$ 1,216.93
Rebuild double check 3" backflow preventer sprinkler system	5	1 Plum	1.000	Ea.	598.06	715.83	2008 Qtr 2	7	7	\$ 5,010.81
Repair failed breaker, 3 pole circuit breaker	10	1 Elec	1.000	Ea.	342.23	400.69	2008 Qtr 2	3	3	\$ 1,202.07
Maintenance and inspection C.B., 3 pole circuit breaker	0.33	1 Elec	1.000	Ea.	22.91	28.50	2008 Qtr 2	112	112	\$ 3,192.00
Replace C.B. molded case, 600 V, 3 pole circuit breaker	50	1 Elec	1.000	Ea.	3,157.74	3,611.55	2008 Qtr 2	0	0	\$ -
Maintenance and inspection lighting panel, indoor	3	1 Elec	1.000	Ea.	28.50	35.63	2008 Qtr 2	12	12	\$ 427.56
Replace fluor. ballast for fluorescent lighting fixture, 80 W	10	1 Elec	24.000	Ea.	2,389.92	2,881.92	2008 Qtr 2	3	3	\$ 8,645.76
Replace lamps (2 lamps) fluorescent lighting fixture, 80 W	10	1 Elec	24.000	Ea.	610.56	748.32	2008 Qtr 2	3	3	\$ 2,244.96
Maintenance and repair receptacles and plugs	20	1 Elec	10.000	Ea.	310.90	387.30	2008 Qtr 2	1	1	\$ 387.30
Replace receptacle/plug receptacles and plugs	20	1 Elec	10.000	Ea.	527.60	644.20	2008 Qtr 2	1	1	\$ 644.20
Maintenance and repair wiring devices, switches	10	1 Elec	10.000	Ea.	310.90	387.30	2008 Qtr 2	3	3	\$ 1,161.90
Replace switch wiring devices, switches	15	1 Elec	10.000	Ea.	512.10	623.50	2008 Qtr 2	2	2	\$ 1,247.00
Repair heat detector	10	1 Elec	1.000	Ea.	41.80	51.13	2008 Qtr 2	3	3	\$ 153.39
Check operation heat detector	1	1 Elec	1.000	Ea.	11.40	14.30	2008 Qtr 2	37	37	\$ 529.10
Replace heat detector	15	1 Elec	1.000	Ea.	116.97	142.59	2008 Qtr 2	2	2	\$ 285.18
Check and repair manual pull station	10	1 Elec	2.000	Ea.	138.42	169.74	2008 Qtr 2	3	3	\$ 509.22
Replace manual pull station	15	1 Elec	2.000	Ea.	251.48	303.78	2008 Qtr 2	2	2	\$ 607.56
Repair smoke detector	10	1 Elec	1.000	Ea.	38.19	47.00	2008 Qtr 2	3	3	\$ 141.00
Check operation smoke detector	1	1 Elec	1.000	Ea.	11.40	14.30	2008 Qtr 2	37	37	\$ 529.10
Replace smoke detector	15	1 Elec	1.000	Ea.	189.55	226.99	2008 Qtr 2	2	2	\$ 453.98

**\$91,883.99**      **\$109,856.59**

MR Subtotal      \$ 106,121.69

MR Per Year      \$ 2,868.15

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PM Per Year     \$     2,026.72

Subtotal             \$     4,894.87

Total Per Unit     \$             1.54

**CostWorks 2009 Quarter 1 - FAC 1552-Small Craft Building**

Qty	Assembly Number	Description	Total In-House	Total Incl. O&P	Zip Code Prefix	Type	Release
1.000	B2035 410 1950	Door, overhead, electric, roll up, to 24' high x 25' w	240.16	290.12	200	FMR	2008 Qtr 2
3.000	B2035 225 1950	Door, emergency egress, swinging, annualized	148.53	172.53	200	FMR	2008 Qtr 2
2.000	C1025 110 1950	Fire doors, swinging, annualized	49.78	59.72	200	FMR	2008 Qtr 2
1.000	D2015 100 1950	Urinals, annualized	12.93	16.15	200	FMR	2008 Qtr 2
1.000	D2015 100 3950	Toilet (tank type), annualized	21.96	27.33	200	FMR	2008 Qtr 2
1.000	D3045 120 1950	Fan coil unit, annualized	215.71	266.60	200	FMR	2008 Qtr 2
1.000	D3045 210 1950	Fan, axial, up to 5,000 CFM, annualized	70.55	86.20	200	FMR	2008 Qtr 2
1.000	D4015 100 1950	Backflow prevention device, up to 4", annualized	18.89	23.42	200	FMR	2008 Qtr 2
1.000	D4015 150 1950	Extinguishing system, wet pipe, annualized	806.79	983.35	200	FMR	2008 Qtr 2
1.000	D5015 220 1950	Circuit breaker, high voltage air, annualized	26.98	33.59	200	FMR	2008 Qtr 2
1.000	D5015 260 1950	Panelboard, 225 A and above, annualized	56.96	67.71	200	FMR	2008 Qtr 2
			<b>\$1,669.24</b>	<b>\$2,026.72</b>			

FAC 1552 Sustainment by Year - Terminal Cutoff Applied

