

MICHIGAN AIRPORT DEVELOPMENT AID

PROGRAM PACKAGE

State/Local

**HARBOR SPRINGS MUNICIPAL AIRPORT**

**Harbor Springs, Michigan**

Fiscal Years 2012 - 2017

Submitted By: Harbor-Petoskey Area Airport Authority

Date: July 19, 2011

MAP Meeting Date: October 4, 2011

Revision Date: October 27, 2011







4100 Capital City Blvd, 2nd Floor  
 Lansing, MI 48906  
 Ph. (517) 327-1980  
 Fax (517) 327-1982

**FIVE-YEAR  
 DEVELOPMENT PLAN  
 2012 - 2017**

**AIRPORT:** Harbor Springs Municipal Airport  
**LOCATION:** Harbor Springs, Michigan

10/27/2011

page 1 of 1

DEVELOPMENT YEAR	DEVELOPMENT ITEM		ITEM COST		F - Total Fed AIP Dollars S - Total State Dollars L - Total Local Dollars T - Total Dollars for Year
				F	\$0
2012	Apron Rehabilitation and Expansion	SL	800,000	S	\$760,000
				L	\$40,000
				T	\$800,000
				F	\$0
2013	Design New Fuel Farm with Fueling Apron	SL	40,000	S	\$38,000
				L	\$2,000
				T	\$40,000
				F	\$0
2014	Construct New Fuel Farm with Fueling Apron	SL	426,000	S	\$425,600
	Crack seal and Paint Marking	SL	22,000	L	\$22,400
				T	\$448,000
				F	\$0
2015	SRE Maintenance Building	SL	230,000	S	\$218,500
				L	\$11,500
				T	\$230,000
				F	\$0
2016	SRE Plow truck	SL	190,000	S	\$180,500
		SL		L	\$9,500
				T	\$190,000
				F	\$0
2017	Crack seal and Paint Marking	SL	22,000	S	\$20,900
				L	\$1,100
				T	\$22,000

TOTAL: \$1,730,000  
 FEDERAL AIP \$0  
 STATE: \$1,643,500  
 LOCAL: \$86,500



**ITEM:** Apron Rehabilitation  
& Expansion - Construction  
\_\_\_\_\_  
\_\_\_\_\_

**FUNDING YEAR:**  
Local Plan: 2012  
Mtg. Decision: \_\_\_\_\_

(One item per sheet, show pavement lengths and widths)

**ITEM IS ON ALP?** Yes X  
No \_\_\_\_\_

FAA Approval Date: December 10, 2001

**ESTIMATED COST:**  
Total: 800,000  
Federal: 0  
State: 760,000  
Local: 40,000

List all reasons/needs for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increases in aircraft/vehicle weight and/or usage, etc. Use additional sheets, as needed.

Harbor Springs Municipal Airport existing apron is in a deteriorating condition.  
FOD is being produced where the alligator cracking has developed. The damage that FOD causes to aircraft  
is a serious issue. The existing arpon rehab will be for approximately 18,000 syd.  
This project will rehab the existing pavement to restore it to a twenty-year life to improve operational safety.  
The project will also expand the apron west of the terminal (approximately 500' X 150').  
The existing apron has PCI numbers of 21 and 35. The numbers fall into the reconstruction range.  
Preliminary layouts with options have been developed to optimize the new and future apron.  
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\_\_\_\_\_



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AIRPORT: Harbor Springs, Mi  
 LOCATION: Harbor Springs Municipal Airport  
 PROJECT: State-Local  
 CONTRACT:  
 DATE: June 28, 2010

FINAL DESIGN  
 PROJECT PROGRAM'G.  
 FEASIBILITY STUDY  
 STATE PLANNING

BASED ON FY 2011 DOLLARS

ENGINEERING COST ESTIMATE

WORK DESCRIPTION: Apron Rehabilitation & Expansion

ITEM DESCRIPTION	UNIT	TOTAL QTY.	UNIT PRICE	TOTAL AMOUNT
mobilization and general conditions	ls	1	25,000	25,000
safety and security	ls	1	10,000	10,000
pulverize existing surface, 3"	sy	18,000	3	54,000
fine grade & compact suf. As base	sy	18,000	1	18,000
bit. surface, 3":	ton	3,400	70	238,000
bit surface, 4"	ton	2,000	70	140,000
concrete (10' X 500' X 8")	sy	600	80	48,000
saw joint in bit. surface	lf	2,000	5	10,000
aggregate base course	cy	1,600	25	40,000
unclassified exvation	cy	15,000	4.75	71,250
pavement marking	sf	5,000	1	5,000
shoulder construction	sta	30	500	15,000
turfing and mulching	ac	2	2,000	4,000
aircraft tie down anchors	ea	50	300	15,000
drainage	ls	1	14,750	14,750
miscellaneous	ls	1	17,000	17,000
<b>CONSTRUCTION SUBTOTAL:</b>				<b>725,000</b>
construction services	ls	1	75000	75,000
<b>TOTAL:</b>				<b>800,000</b>



**ITEM:** Fuel Farm Design  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FUNDING YEAR:**  
Local Plan: 2013  
Mtg. Decision: \_\_\_\_\_

(One item per sheet, show pavement lengths and widths)

**ITEM IS ON ALP?** Yes X  
No \_\_\_\_\_

FAA Approval Date: \_\_\_\_\_

**ESTIMATED COST:**  
Total: \$40,000  
Federal: \_\_\_\_\_  
State: 38,000  
Local: 2,000

List all reasons/needs for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increases in aircraft/vehicle weight and/or usage, etc. Use additional sheets, as needed.

The existing system is to under ground 10,000 gallon tanks that are 20 years old. The airport authority wants to remove the tanks before any leaks and install two above aground tanks on the south side of the airport. It is proposed to install a 20,000 gallon tank for jet A and a 10,000 gallon tank for 100LL. The existing fuel farm is between a hangar and the new terminal. It is proposed to construct a SRE maintenance building in this area. The fuel farm would be constructed to allow fueling direct from the tanks for the times that the trucks are down.



**ITEM:** Fuel Farm Construction  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FUNDING YEAR:**  
Local Plan: 2014  
Mtg. Decision: \_\_\_\_\_

(One item per sheet, show pavement lengths and widths)

**ITEM IS ON ALP?** Yes X  
No \_\_\_\_\_

FAA Approval Date: \_\_\_\_\_

**ESTIMATED COST:**  
Total: \$426,000  
Federal: \_\_\_\_\_  
State: 404,700  
Local: 21,300

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AIRPORT: Harbor Springs, Mi  
 LOCATION: Harbor Springs Municipal Airport  
 PROJECT: State-Local  
 CONTRACT:  
 DATE: Sept 15, 2010

FINAL DESIGN  
 PROJECT PROGRAM'G.  
 FEASIBILITY STUDY  
 STATE PLANNING

BASED ON FY 2011 DOLLARS

WORK DESCRIPTION: Fuel Farm and Fueling Apron (1 - 20,000gal jet A & 1 - 10,000gal LL)

ITEM DESCRIPTION	UNIT	TOTAL QTY.	UNIT PRICE	TOTAL AMOUNT
mobilization and general conditions	ls	1	10,000	10,000
safety and security	ls	1	5,000	5,000
bit. surface, 4":	ton	650	80	52,000
aggregate base course	cy	500	25	12,500
unclassified excavation	cy	500	7.00	3,500
pavement marking	sf	1,000	1	1,000
shoulder construction	sta	3	500	1,500
turfing and mulching	ls	1	500	500
Fuel Systems	ls	1	250,000	250,000
miscellaneous	ls	1	36,000	36,000
<b>CONSTRUCTION SUBTOTAL:</b>				<b>372,000</b>
construction services	ls	1	54000	54,000
<b>TOTAL:</b>				<b>426,000</b>



**ITEM:** Crack Seal & Paint Runway and  
Taxiways  
\_\_\_\_\_  
\_\_\_\_\_

**FUNDING YEAR:**  
Local Plan: 2014  
Mtg. Decision: \_\_\_\_\_

(One item per sheet, show pavement lengths and widths)

**ITEM IS ON ALP?** Yes X  
No \_\_\_\_\_

FAA Approval Date: \_\_\_\_\_

**ESTIMATED COST:**  
Total: \$22,000  
Federal: \_\_\_\_\_  
State: 11,000  
Local: 11,000

List all reasons/needs for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increases in aircraft/vehicle weight and/or usage, etc. Use additional sheets, as needed.

To maintain and prolong the pavement and safety of the airport users.





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WORK DESCRIPTION: Snow Removal Equipment (SRE) Building

ITEM DESCRIPTION	UNIT	TOTAL QTY.	UNIT PRICE	TOTAL AMOUNT
SRE Building	ls	1	180,000	180,000
CONSTRUCTION SUBTOTAL:				180,000
Engineering & administration	ls	1	50000	50,000
TOTAL:				230,000





**ITEM:** Crack Seal & Paint Runway and  
Taxiways  
\_\_\_\_\_  
\_\_\_\_\_

**FUNDING YEAR:**  
Local Plan: 2017  
Mtg. Decision: \_\_\_\_\_

(One item per sheet, show pavement lengths and widths)

**ITEM IS ON ALP?** Yes X  
No \_\_\_\_\_

FAA Approval Date: \_\_\_\_\_

**ESTIMATED COST:**  
Total: \$22,000  
Federal: \_\_\_\_\_  
State: 11,000  
Local: 11,000

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