

MICHIGAN AIRPORT DEVELOPMENT AID

PROGRAM PACKAGE

State/Local

**HARBOR SPRINGS MUNICIPAL AIRPORT**

**Harbor Springs, Michigan**

Fiscal Years 2014 - 2020

Submitted By: Harbor-Petoskey Area Airport Authority

Date: June 6, 2013 (revised July 16, 2013)

MAP Meeting Date: \_\_\_\_\_

Revision Date: \_\_\_\_\_





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

**FIVE-YEAR  
 DEVELOPMENT PLAN**

**AIRPORT:** Harbor Springs Municipal Airport

**LOCATION:** Harbor Springs, Michigan

2014 - 2020

revised 07/16/13

5/15/2013

page 1 of 2

DEVELOPMENT YEAR	DEVELOPMENT ITEM		ITEM COST	F - Total Fed AIP Dollars S - Total State Dollars L - Total Local Dollars T - Total Dollars for Year
	Design Fuel Farm - reimbursement	SL	38,000	F \$0
2014	Construction of Fuel Farm with Fueling Apron	SL	550,000	S \$558,600
				L \$29,400
				T \$588,000
	Design SRE Building	SL	25,000	F \$0
2015	Construct SRE Building	SL	250,000	S \$271,250
				L \$23,750
	Crack Seal and Paint Marking (50% State - 50% Local)	50/50	20,000	
				T \$295,000
		SL		F \$0
2016	SRE Plow truck	SL	210,000	S \$199,500
				L \$10,500
				T \$210,000
				F \$0
2017	Crack Seal and Paint Marking (50% State - 50% Local)	SL	24,000	S \$12,000
				L \$12,000
				T \$24,000
				F \$0
2018	Carry Over Funds for Runway Rehabilitation	SL		S \$0
				L \$0
				T \$0
				F \$0
2019	Crack Seal and Paint Marking (50% State - 50% Local)	SL	24,000	S \$12,000
				L \$12,000
				T \$24,000

TOTAL: \$2,005,000  
 FEDERAL AIP \$0  
 STATE: \$1,874,150  
 LOCAL: \$130,850



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**FIVE-YEAR  
 DEVELOPMENT PLAN**

**AIRPORT:** Harbor Springs Municipal Airport

**LOCATION:** Harbor Springs, Michigan

2012 - 2022

**DATE:** 7/12/2011

page 2 of 2

DEVELOPMENT YEAR	DEVELOPMENT ITEM	SL	ITEM COST	M - Total Fed MAP Dollars		F - Total Fed AIP Dollars		S - Total State Dollars		L - Total Local Dollars		T - Total Dollars for Year	
2020	Runway Rehabilitation	SL	864,000										
2021		SL											
2022		SL											
2023		SL											
2024		SL											

TOTAL: \$2,005,000  
 FEDERAL AIP \$0  
 STATE: \$1,874,150  
 LOCAL: \$130,850

**MICHIGAN STATE BLOCK GRANT PROGRAM**  
**FIVE-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2013\* to FY-2020**

\*ACIP includes current development year (2014 already programmed - minor changes acceptable)

Airport Name: Harbor Springs Municipal Airport	Date prepared: 6/6/2013 revised 07/16/13
Associated City: Harbor Springs	Prepared By: QoE Consulting
Sponsor: Harbor - Petosky Area Airport Authority	Sponsor email address & phone: hsair@chartermi.net / 231.347.2812
Airport Identifier: MGN	<b>FINAL ACIP due to MDOT AERO: no later than 12/1/13</b>

Development Year	Project Description	Shown on ALP? (Yes or No)	ACIP Code**	NPIAS Priority Rating**	Federal Entitlements	Federal Apportionment	Federal Discretionary	State	Local	Total	Remarks/Item Justification - Provide as much detail as possible.
2014	Design Fuel Farm - reimbursement	Yes	OT/EQ/FF	18				36,100	1,900	38,000	The existing underground system is 20 years old and in the location of the future SRE blg
2014	Construct Fuel Farm with Fueling Apron	Yes	OT/EQ/FF	18				522,500	27,500	550,000	The existing underground system is 20 years old and in the location of the future SRE blg
2015	Design SRE Building	Yes	ST/BD/SN	36				23,750	1,250	25,000	The airport has no SRE building
2015	Construct SRE Building	Yes	ST/BD/SN	36				237,500	12,500	250,000	The airport has no SRE building
2015	Crack Seal & Paint (50% State/50% Local)	Yes	RE/RW/IM	68				10,000	10,000	20,000	Part of pavement maintenance program to prolong the life of existing pavement
2016	SRE Snow Plow	No	ST/EQ/SN	44				199,500	10,500	210,000	New truck needed to replace a 1978 plow truck
2017	Crack Seal & Paint (50% State/50% Local)	Yes	RE/RW/IM	68				12,000	12,000	24,000	Part of pavement maintenance program to prolong the life of existing pavement
2018	Carryover Funds for Runway Rehabilitation										Carryover Funds for Runway Rehabilitation planned for 2020
2019	Crack Seal & Paint (50% State/50% Local)	Yes	RE/RW/IM	68				12,000	12,000	24,000	Part of pavement maintenance program to prolong the life of existing pavement
2020	Runway Rehabilitation	Yes	RE/RW/IM	68				820,800	43,200	864,000	Project life of the existing runway pavement
Totals								1,874,150	130,850	2,005,000	

\*\*In accordance with FAA Order 5100.39A, Appendix 6 - Fields need to be completed



**ITEM:** Design Fuel Farm Reimbursement

**FUNDING YEAR:**

Local Plan: 2014

Mtg. Decision: \_\_\_\_\_

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

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

**ESTIMATED COST:**

Total: \$38,000

Federal: \_\_\_\_\_

State: 36,100

Local: 1,900

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

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 ground tanks on the north side of the airport - east of the existing blue hangar. It is proposed to install a 12,000 gallon tank for jet A and a 12,000 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. Design will be paid locally for reimbursement in 2014.



**ITEM:** Construct Fuel Farm  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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: \$550,000  
Federal: \_\_\_\_\_  
State: 522,500  
Local: 27,500

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 north side of the airport - east of the existing blue hangar. It is proposed to install a 12,000 gallon tank for jet A and a 12,000 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.



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AIRPORT: Harbor Springs, Mi  
 LOCATION: Harbor Springs Municipal Airport  
 PROJECT: State-Local  
 CONTRACT:  
 DATE: June 28, 2012 revised July 2013

FINAL DESIGN  
 PROJECT PROGRAM'G.  
 FEASIBILITY STUDY  
 STATE PLANNING  
 BASED ON FY 2013 DOLLARS

WORK DESCRIPTION: Fuel Farm and Fueling Apron (1 - 12,000gal jet A & 1 - 12,000gal LL)

ITEM DESCRIPTION	UNIT	TOTAL QTY.	UNIT PRICE	TOTAL AMOUNT
mobilization and general conditions	ls	1	25,000	25,000
safety and security	ls	1	2,500	2,500
concrete paving	syd	500	75	37,500
aggregate base course	cy	100	60	6,000
unclassified excavation	cy	500	20.00	10,000
existing tank removal	ea	2	20,000.00	40,000
pavement marking	sf	1,000	1	1,000
shoulder construction	sta	4	500	2,000
turfing and mulching	ls	1	3,000	3,000
Fill	cy	300	20	6,000
12,000 gal tanks	ea	2	160,000	320,000
Relocate above ground tanks	ea	0	15,000	0
miscellaneous	ls	1	31,000	31,000
CONSTRUCTION SUBTOTAL:				484,000
construction administration	ls	1	66000	66,000
TOTAL:				550,000



**ITEM:** Design SRE Building  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FUNDING YEAR:**  
Local Plan: 2015  
Mtg. Decision: \_\_\_\_\_

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

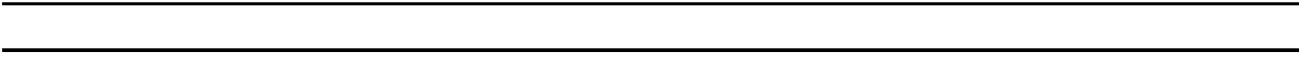
**ITEM IS ON ALP?** Yes X  
No \_\_\_\_\_

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

**ESTIMATED COST:**  
Total: \$25,000  
Federal: \_\_\_\_\_  
State: 23,750  
Local: 1,250

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 airport is currently storing snow removal equipment in hangar space that they would like to utilize to increase the airport's capacity for based aircraft. The SRE building will also allow other existing snow removal equipment to be stored inside.





**ITEM:** Construct SRE Building

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FUNDING YEAR:**

Local Plan: 2015  
Mtg. Decision: \_\_\_\_\_

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

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

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

**ESTIMATED COST:**

Total: \$250,000  
Federal: \_\_\_\_\_  
State: 237,500  
Local: 12,500

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 airport is currently storing snow removal equipment in hangar space that they would like to utilize to increase the airport's capacity for based aircraft. The SRE building will also allow other existing snow removal equipment to be stored inside.



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AIRPORT: Harbor Springs, Mi  
 LOCATION: Harbor Springs Municipal Airport  
 PROJECT: State-Local  
 CONTRACT:  
 DATE: June 7, 2012

FINAL DESIGN  
 PROJECT PROGRAM'G.  
 FEASIBILITY STUDY  
 STATE PLANNING

BASED ON FY 2012 DOLLARS

WORK DESCRIPTION: Snow Removal Equipment (SRE) Building

ITEM DESCRIPTION	UNIT	TOTAL QTY.	UNIT PRICE	TOTAL AMOUNT
SRE Building	ls	1	215,000	215,000
CONSTRUCTION SUBTOTAL:				215,000
construction engineering & administration	ls	1	35000	35,000
TOTAL:				250,000



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

**FUNDING YEAR:**  
Local Plan: 2015  
Mtg. Decision: \_\_\_\_\_

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

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

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

**ESTIMATED COST:**  
Total: \$20,000  
Federal: \_\_\_\_\_  
State: 10,000  
Local: 10,000

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.



**ITEM:** SRE - Plow Truck  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FUNDING YEAR:**  
Local Plan: 2016  
Mtg. Decision: \_\_\_\_\_

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

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

FAA Approval Date: December 10, 2001

**ESTIMATED COST:**  
Total: 210,000  
Federal: 0  
State: 199,500  
Local: 10,500

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 Plow Truck is a 1978 International truck which is beyond its useful life. The airport also has a 1982 truck with blower. Neither trucks were paid for with State or FAA funds.



**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: \$24,000  
Federal: \_\_\_\_\_  
State: 12,000  
Local: 12,000

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.



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

**FUNDING YEAR:**  
Local Plan: 2019  
Mtg. Decision: \_\_\_\_\_

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

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

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

**ESTIMATED COST:**  
Total: \$24,000  
Federal: \_\_\_\_\_  
State: 12,000  
Local: 12,000

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.



**ITEM:** Runway rehabilitation  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FUNDING YEAR:**  
Local Plan: 2020  
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: 864,000  
Federal: 0  
State: 820,800  
Local: 43,200

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 Airports existing runway is approaching the end of its life cycle. This project will rehab the existing pavement to return it to a twenty-year life. Crack repair is becoming an increasingly expensive maintenance cost.



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AIRPORT: Harbor Springs, Mi  
 LOCATION: Harbor Springs Municipal Airport  
 PROJECT: State-Local  
 CONTRACT:  
 DATE: July 12, 2011

FINAL DESIGN  
 PROJECT PROGRAM'G.  
 FEASIBILITY STUDY  
 STATE PLANNING

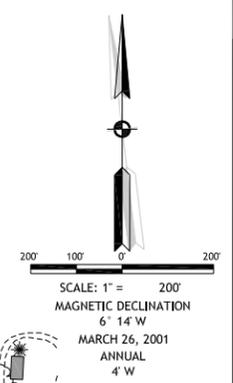
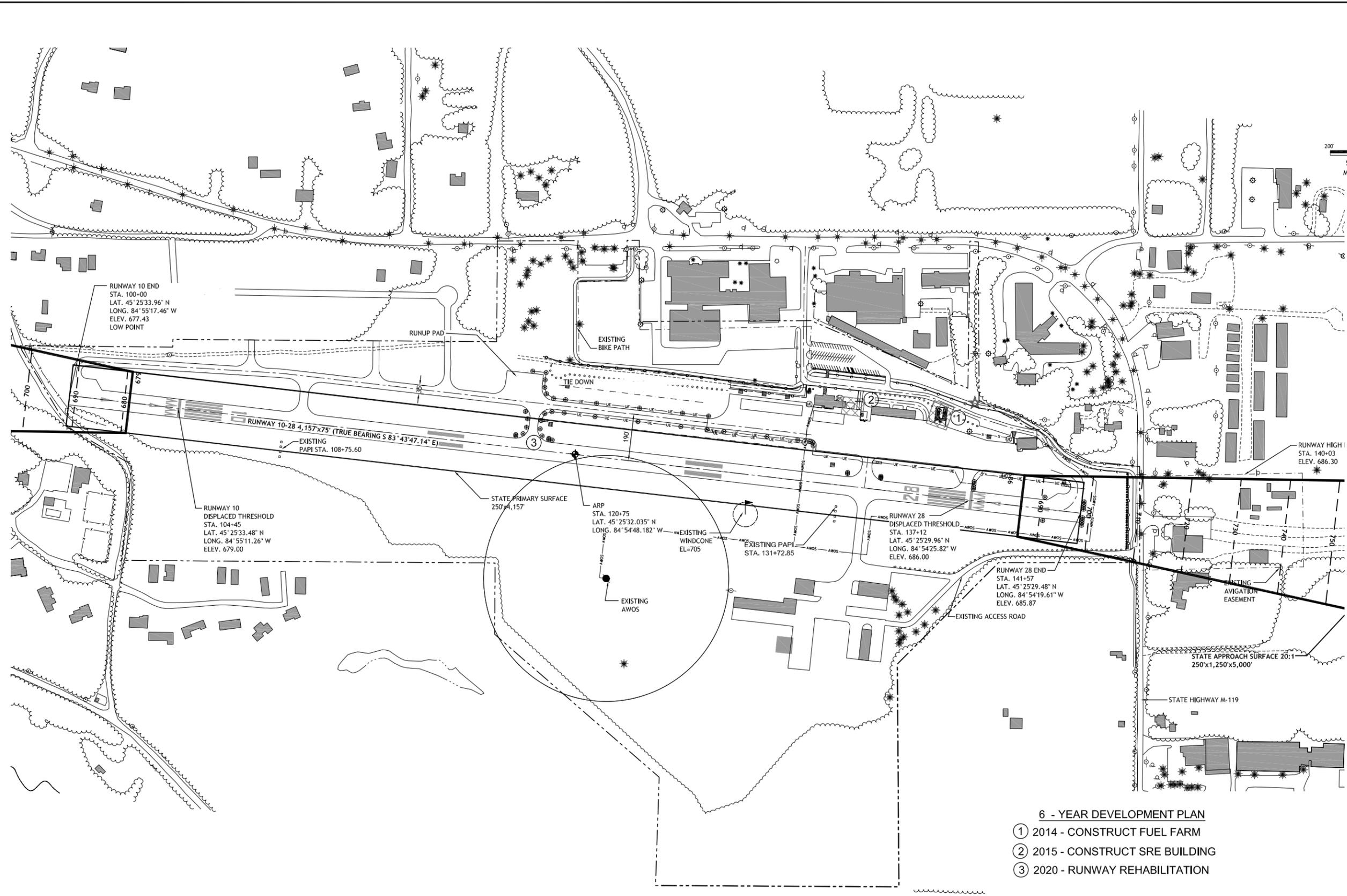
BASED ON FY 2012 DOLLARS

ENGINEERING COST ESTIMATE

WORK DESCRIPTION: Rehab Runway (4157' x 75')

ITEM DESCRIPTION	UNIT	TOTAL QTY.	UNIT PRICE	TOTAL AMOUNT
mobilization and general conditions	ls	1	40000	40,000
safety and security	ls	1	10000	10,000
pulverize shape & compact bituminous pavement	sy	36000	0	0
bit. Surface 3",	ton	7200	70	504,000
salvage base course	cy	3000	0	0
underdrain 8"	lf	1000	0	0
saw joint in bit. surface	lf	3200	5	16,000
RCCP pipe	lf	0	0	0
Drainage structure w/ cover	ea	2	3000	6,000
pavement marking	sf	10000	1	10,000
shoulder construction	sta	100	300	30,000
turfing and mulching	ac	2	2000	4,000
miscellaneous	ls	1	72000	72,000
<b>CONSTRUCTION SUBTOTAL:</b>				<b>692,000</b>
engineering, administration	ls	1	172000	172,000
<b>TOTAL:</b>				<b>864,000</b>

File Name: M:\Harbor Springs\ACIP\2014\HARBOR GYR PLAN.dwg - Layout1  
 June 6, 2013 8:54:09 AM / ssmith  
 Modified / By:  
 Plotted / By: June 6, 2013 9:00:38 AM / Ronald Lebbon



- 6 - YEAR DEVELOPMENT PLAN**
- ① 2014 - CONSTRUCT FUEL FARM
  - ② 2015 - CONSTRUCT SRE BUILDING
  - ③ 2020 - RUNWAY REHABILITATION

<p><b>6 - YEAR DEVELOPMENT PLAN</b></p>		<p>HARBOR SPRINGS, MI</p>		DATE	06-06-13
		<p>HARBOR SPRINGS MUNICIPAL AIRPORT</p>	APPROVED	GHB	
CONTRACT NO.	FYP	DRAWN	DESIGNED	REVIEWED	DATE
		SGS	PDS	RL	06-06-13
		REV	DESCRIPTION	DATE	BY
		REV	MAP Meeting Revisions	9/15/10	REL

