

**MICHIGAN AIRPORT DEVELOPMENT PROGRAM PACKAGE**

**FIVE YEAR AIRPORT CAPITAL IMPROVEMENT PLAN**

**Fiscal Years 2015 - 2020**

# **Drummond Island Airport**

**Drummond Island, Michigan**

Submitted By: **Drummond Township**

Date: **July 22, 2014**

MAP Meeting Date:

Revision Date:

Prepared By:





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**FIVE-YEAR  
 DEVELOPMENT PLAN  
 2015-2020**

**AIRPORT:** Drummond Island Airport  
**LOCATION:** Drummond Island, Michigan

07/22/2014

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DEVELOPMENT YEAR	DEVELOPMENT ITEM		ITEM COST	F - Total Federal Dollars S - Total State Dollars L - Total Local Dollars	
					T - Total Dollars for Year
2015	Bituminous Surface Treatment EA-4F Mitigation	FSL	181,000	F	\$274,500
				S	\$15,250
				L	\$15,250
				T	\$305,000
2016	4F Mitigation	FSL	600,000	F	\$540,000
				S	\$30,000
				L	\$30,000
				T	\$600,000
2017	Carryover	FSL		F	\$0
				S	\$0
				L	\$0
				T	\$0
2018	Install new lights runway 8/26.	FSL	488,000	F	\$439,200
				S	\$24,400
				L	\$24,400
				T	\$488,000
2019	Paint Marking & Crack Sealing	FSL	28,000	F	\$25,200
				S	\$1,400
				L	\$1,400
				T	\$28,000
2020	Snow Removal Equipment	FSL	305,000	F	\$274,500
				S	\$15,250
				L	\$15,250
				T	\$305,000

TOTAL: \$1,726,000.00  
 FEDERAL: \$1,553,400.00  
 STATE: \$86,300.00  
 LOCAL: \$86,300.00





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**P:** 517-327-1980

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**ITEM SHEET**

ITEM	Feasibility Study

FUNDING YEAR	
Local Plan:	2014
Mtg. Decision:	

ESTIMATE COST	
Total:	\$89,200
Federal:	\$80,280
State:	\$4,460
Local:	\$4,460

ITEM IS ON ALP?  YES  
 NO

<b>FAA Approval Date:</b>	<b>Nov, 2012</b>
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**Instructions:**

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

The Drummond Island ALP, updated in 2012, depicts modifications required for runway 8/26 to meet federal standards. Existing runway 8/26 will need to be relocated 1000' west. This would require buying land and construction of 1000 feet of runway and associated taxiway. An existing golf course that is located on each side of runway 8/26 would also have to be addressed. The ALP update did not address the relocation of the existing golf course. Cost estimate were not developed during the ALP update to implement the required changes. The purpose of this Feasibility Study is to determine alternatives available to meet FAA safety standards and identify the impacts of each alternative This study will be undertaken to allow the governmental bodies (Airport/Township, State, and FAA) to determine if it is feasible for the airport to meet the FAA standards. Options of relocating the golf course will be studied including associated costs. Cost estimates will also be developed to implement the ALP including costs to buy land and shift the runway to the west.



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**ITEM SHEET**

<b>ITEM</b>	<b>Bituminous Surface Treatment</b>

<b>FUNDING YEAR</b>	
<b>Local Plan:</b>	2015
<b>Mtg. Decision:</b>	

<b>ESTIMATE COST</b>	
<b>Total:</b>	\$181,000
<b>Federal:</b>	\$162,900
<b>State:</b>	\$9,050
<b>Local:</b>	\$9,050

ITEM IS ON ALP?  YES  
 NO

<b>FAA Approval Date:</b>	
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**Instructions:**

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

The pavements were walked on June 20, 2014. The bituminous surface is almost white. Sand and small stones are being lost on the surface due to oxidation/loss of asphalt cement. The pavement was paint marked in 2013 but now has very low visibility. To preserve the pavement and increase the life. a surface treatment is proposed. This would also provide a black surface for the pavement remarking. Cracks that were not sealed in 2012 (only the west half of the runway was sealed) would be sealed prior to the surface treatment.





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**ITEM SHEET**

<b>ITEM</b>	EA-4F Mitigation

<b>FUNDING YEAR</b>	
Local Plan:	2015
Mtg. Decision:	

<b>ESTIMATE COST</b>	
Total:	\$124,000
Federal:	\$111,600
State:	\$6,200
Local:	\$6,200

ITEM IS ON ALP?  YES  
 NO

<b>FAA Approval Date:</b>	
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**Instructions:**

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

The EA-4F needs to be done to determine the environmental impacts of relocating the existing golf course and find a suitable location to relocate it to.



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**ITEM SHEET**

<b>ITEM</b>	4F Mitigation

<b>FUNDING YEAR</b>	
<b>Local Plan:</b>	2016
<b>Mtg. Decision:</b>	

<b>ESTIMATE COST</b>	
<b>Total:</b>	\$600,000
<b>Federal:</b>	\$540,000
<b>State:</b>	\$30,000
<b>Local:</b>	\$30,000

ITEM IS ON ALP?  YES  
 NO

FAA Approval Date:

**Instructions:**

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

The 4F Mitigation needs to be done to address the impacts that were determined in the EA-4F. These impacts will include the relocation of the golf course. A new location will reduce a hazard to the runway by eliminating the golf cart crossing. The feasibility study may determine another option to relocating the golf course thus this description may change but funds will still be required.



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**ITEM SHEET**

<b>ITEM</b>	Install new runway lights 8/26

<b>FUNDING YEAR</b>	
Local Plan:	2018
Mtg. Decision:	

<b>ESTIMATE COST</b>	
Total:	\$488,000
Federal:	\$439,200
State:	\$24,400
Local:	\$24,400

ITEM IS ON ALP?  YES  
 NO

<b>FAA Approval Date:</b>	
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**Instructions:**

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

Runway 8/26 lighting was originally installed in 1987. The lighting system has met the anticipated design life for lights in the soil condition. Lighting maintenance costs have been increasing over the past few years.





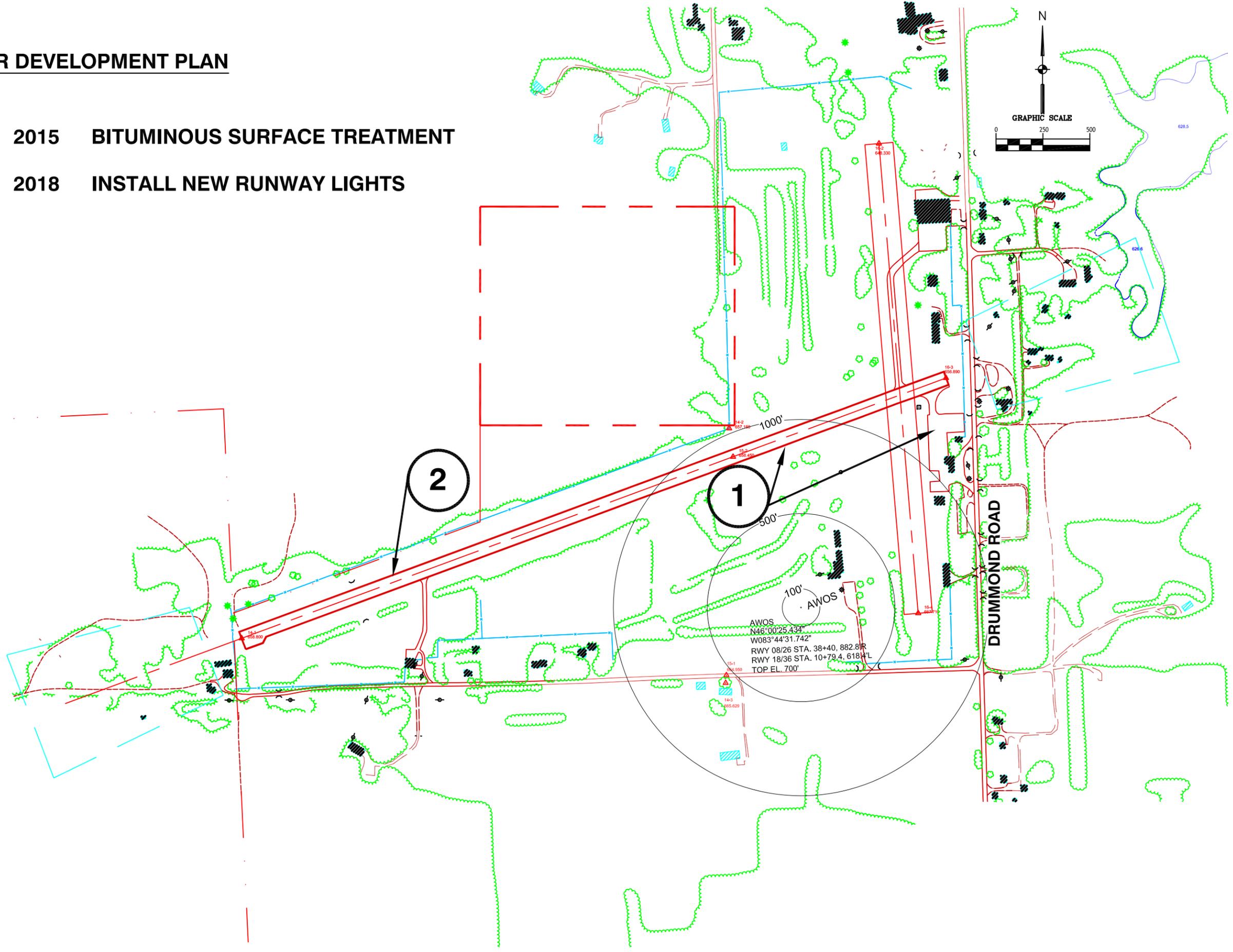






# FIVE YEAR DEVELOPMENT PLAN

- 1 2015 BITUMINOUS SURFACE TREATMENT
- 2 2018 INSTALL NEW RUNWAY LIGHTS



File Name: M:\Drummond Island\ACIP\2015\2015-2020 ACIP.dwg - Layout1  
 Modified / By: July 23, 2014 9:45:52 AM / ssmith  
 Plotted / By: July 23, 2014 3:57:02 PM / Ronald Lebbon

REV	DESCRIPTION	DATE	BY

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FIVE YEAR DEVELOPMENT PLAN		DRUMMOND ISL. MI.	
PROJECT NO:	FYP	DATE:	06-16-11
DRAWN:	POS	APPROVED:	REL
DESIGNED:	REL	REVIEWED:	REL