

**MICHIGAN AIRPORT DEVELOPMENT
PROGRAM PACKAGE
MDOT Airports Division**

**Ten Year Airport Capital Improvement Plan
2012-2022**

Prepared for:

**Lenawee County Airport
Adrian, Michigan**

**August 2011
Revised October 2011**

Contact:

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Prepared by:

Mead&Hunt

**MICHIGAN STATE BLOCK GRANT PROGRAM
TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2012* to FY-2022**

*ACIP includes current development year (2011 already programmed - minor changes acceptable)

Airport Name: Lenawee County Airport	Date prepared: 6/8/2011 Revised --
Associated City: Adrian, MI	Prepared By: SCT Mead & Hunt
Sponsor: Lenawee County	Sponsor email address & phone: airportmanager@lenawee.mi.us (517) 265-2827
Airport Identifier: ADG (Airport code B)	FINAL ACIP due to MDOT AERO: no later than

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.
2012 ***	Land acquisition for Runway 23 approach (6 parcels)	NA	STLASZ	44	\$150,000			\$3,947	\$3,947	\$157,895	Acquisition of avigation easements over 6 parcels continues. GA entitlements from 2010 have been transferred for this project. Final costs are not known at this time.
	Carry forward GA Entitlement (\$150,000) for 2013 construction										
2013	Rehab East Ramp and West Auto Parking Lot	NA	REAPIM	60	\$285,000			\$7,500	\$7,500	\$300,000	The east (PCI 48) and east aircraft aprons and west automobile parking areas are showing significant pavement distress including alligator cracking, block cracking and ravelling.
	Carry forward remainder of GA Entitlement (\$15,000) for 2014 construction										
2014	Reconstruct Parking Lot, Rehab North and West Taxiways, Joint Repair and Crack Seal Twy B	NA	RETWIM	66	\$265,000	\$86,500		\$9,250	\$9,250	\$370,000	Airport parking lot is in poor condition. Reconstruction is warranted. Existing t-hangar taxiways (PCI's of 15 to 42) are in poor condition and causing significant FOD. Rehabilitation of the existing pavement is required so that aircraft are not damaged by the poor condition pavement. Joints on Twy B (PCI 73) are widening and starting to spall. Joints need to be repaired to reduce FOD so that aircraft are not damaged. Twy B also requires some crack sealing to maintain pavement integrity and extend useful life of taxiway.
2015	Carry forward GA Entitlement (\$150,000) for 2016 construction										
2016	Install 12,000 gallon above ground storage tank.	No	OTOTFF	19	\$294,500			\$7,750	\$7,750	\$310,000	Increasing the capacity of fuel storage will help the airport better serve airport users and also enhance revenue.
	Carry forward remainder of GA Entitlement (\$5,500) for 2017 construction										
2017	Airfield Pavement Marking	NA	RERWIM	70	\$38,950			\$1,025	\$1,025	\$41,000	Remark airfield
	Carry forward remainder of GA Entitlement (\$116,550) for 2019 construction										
2018	Carry forward GA Entitlement (\$266,550) for 2019 construction										
2019	Rehab Taxiway B and East Hangar Taxiway	NA	RETWIM	66	\$416,550	\$248,450		\$17,500	\$17,500	\$700,000	Taxiway B (PCI 73) and east hangar taxiway (PCI 75) is starting to show age related distress including block cracking and minor ravelling. It is anticipated that rehabilitation will be required by 2019.
2020	ALP Update (Include seaplane ramp)	NA	PLPLMA	66	\$66,500			\$1,750	\$1,750	\$70,000	The last ALP update was completed in 1999. The airport intends to update the ALP and add a seaplane ramp in the lake on the south side of the airport.
	Carry forward remainder of GA Entitlement (\$83,500) for 2022 construction										
2021	Carry forward GA Entitlement (\$233,500) for 2022 construction										
2022	Construct Seaplane Ramp	No	CASBCO	63	\$332,500			\$8,750	\$8,750	\$350,000	The lake located south of the airport is used by seaplanes. The airport wishes to install a seaplane ramp and gate in the airport perimeter fence to enhance accessibility for users.
	Design Rehab Northeast Half of Taxiway A	NA	RETWIM	66	\$31,393			\$826	\$826	\$33,045	The northeast half of taxiway A is starting to show age related distress including block cracking and minor ravelling. It is anticipated that rehabilitation will be required by 2022.
	Carry forward GA Entitlement (\$19,607) for 2023 construction										

**In accordance with FAA Order 5100.39A, Appendix 6 - Fields need to be completed
*** Land acquisition remains on CIP until project completed - currently under litigation

ENGINEERING COST ESTIMATE

PROJECT: Rehabilitate East Ramp and West Auto Parking Lot
 LOCATION: Lenawee County Airport
 CITY: Adrian, MI
 DATE: 7/27/09
 PREPARED BY: BJH
 REVIEWED BY: SCT 6/9/2011

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2011 DOLLARS

WORK DESCRIPTION: Rehab east ramp (5800 syd), rehab west parking (1700 syd).

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 20,000.00	\$ 20,000
Safety and Security	LS	1	\$ 5,000.00	\$ 5,000
Bituminous Surface (4")	TON	1,800	\$ 85.00	\$ 153,000
Pavement Removal	SY	7,500	\$ 2.50	\$ 18,750
Fine Grade & Compact Aggregate Base	SY	7,500	\$ 1.50	\$ 11,250
Pavement Marking	LS	1	\$ 5,000.00	\$ 5,000
Turfing and Mulching	AC	3	\$ 3,000.00	\$ 9,000
CONSTRUCTION TOTAL =				\$ 222,000
CONSTRUCTION CONTINGENCIES (15%) =				\$ 33,300
CONSTRUCTION TOTAL =				\$ 255,300
ENGINEERING DESIGN (7%) =				\$ 17,871
CONSTRUCTION ADMIN (10%) =				\$ 25,530
				\$ 298,701
PROJECT YEAR BUDGET ESTIMATE =				\$ 300,000



Note: These costs were developed without the benefit of field surveys or soils investigation.
 A final cost estimate will be dependent upon development of these items and further design.

ENGINEERING COST ESTIMATE

PROJECT: Crack Seal Taxiway B, Rehab Taxilanes, Reconstruct Parking Lot
 LOCATION: Lenawee County Airport
 CITY: Adrian, MI
 DATE: 9/08/11
 PREPARED BY: GWS
 REVIEWED BY:

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2011 DOLLARS

WORK DESCRIPTION: Repair joints and seal cracks on taxiway B (3000' x 35'). Rehab north (1750 syd) and west (1900 syd) taxilanes, install power gates at flight school entrance, west airport entrance and t-hangar entrance. Reconstruct parking lot (1240 syd).

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 20,000.00	\$ 20,000
Safety and Security	LS	1	\$ 15,000.00	\$ 15,000
Unclassified Excavation (9")	CY	350	\$ 8.00	\$ 2,800
Gravel Base (6")	CY	230	\$ 40.00	\$ 9,200
Bituminous Surface	TON	1,150	\$ 80.00	\$ 92,000
Pavement Removal	SY	4,840	\$ 2.50	\$ 12,100
Fine Grade & Compact Aggregate Base	SY	3,600	\$ 2.00	\$ 7,200
Pavement Marking	LS	1	\$ 8,000.00	\$ 8,000
Turfing and Mulching	AC	5	\$ 4,000.00	\$ 20,000
12' Wide Power Slide Gates	EA	1	\$ 25,000.00	\$ 25,000
Joint Sealing	LF	1,500	\$ 2.00	\$ 3,000
Joint Repair	LF	1,500	\$ 15.00	\$ 22,500
				CONSTRUCTION TOTAL = \$ 236,800
				CONSTRUCTION CONTINGENCIES (30%) = \$ 71,040
				CONSTRUCTION TOTAL = \$ 307,840
				ENGINEERING DESIGN (7%) = \$ 21,549
				CONSTRUCTION ADMIN (10%) = \$ 30,784
				\$ 360,173
				PROJECT YEAR BUDGET ESTIMATE = \$ 370,000



Note: These costs were developed without the benefit of field surveys.
 A final cost estimate will be dependent upon development of these items and further design.

ENGINEERING COST ESTIMATE

PROJECT: Airfield Pavement Marking
 LOCATION: Lenawee County Airport
 CITY: Adrian, MI
 DATE: 7/22/10
 PREPARED BY: GWS
 REVIEWED BY: SCT 6/9/2011

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2011 DOLLARS

WORK DESCRIPTION: Remark airfield pavement markings

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 3,000.00	\$ 3,000
Safety and Security	LS	1	\$ 1,000.00	\$ 1,000
Runway 5/23 pavement marking	SFT	62,000	\$ 0.30	\$ 18,600
Taxiway A pavement marking	SFT	22,415	\$ 0.30	\$ 6,725
Taxiway B pavement marking	SFT	11,290	\$ 0.30	\$ 3,387
Apron pavement marking	SFT	4,000	\$ 0.30	\$ 1,200
CONSTRUCTION TOTAL = \$				33,912
CONSTRUCTION CONTINGENCIES (10%) = \$				3,391
CONSTRUCTION TOTAL = \$				37,303
ENGINEERING DESIGN (Prepare Pavement Marking Plan) = \$				3,000
CONSTRUCTION ADMIN (Note 2) = \$				-
\$				40,303
PROJECT YEAR BUDGET ESTIMATE = \$				41,000



Note: 1 These costs were developed without the benefit of field survey.
 A final cost estimate will be dependent upon development of these items and further design.

ENGINEERING COST ESTIMATE

PROJECT: Rehabilitate Taxiway B and East Hangar Taxilane
 LOCATION: Lenawee County Airport
 CITY: Adrian, MI
 DATE: 7/24/09
 PREPARED BY: BJH
 REVIEWED BY: SCT 6/9/2011

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2011 DOLLARS

WORK DESCRIPTION: Rehab taxiway B (11750 syd) and east hangar taxilane (1950 SYD)

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 50,000.00	\$ 50,000
Safety and Security	LS	1	\$ 10,000.00	\$ 10,000
Bituminous Surface (5")	TON	3,700	\$ 85.00	\$ 314,500
Bituminous Surface (4")	TON	500	\$ 85.00	\$ 42,500
Cold Mill/Pulverize Existing Pavement	SY	13,700	\$ 2.50	\$ 34,250
Salvage Pulverized Material	CY	500	\$ 5.00	\$ 2,500
Fine Grade & Compact Aggregate Base	SY	13,700	\$ 2.50	\$ 34,250
Pavement Marking (Taxiway)	LS	1	\$ 6,000.00	\$ 6,000
Turfing and Mulching	AC	5	\$ 4,000.00	\$ 20,000
CONSTRUCTION TOTAL = \$				514,000
CONSTRUCTION CONTINGENCIES (15%) = \$				77,100
CONSTRUCTION TOTAL = \$				591,100
ENGINEERING DESIGN (7%) = \$				41,377
CONSTRUCTION ADMIN (10%) = \$				59,110
				\$ 691,587
PROJECT YEAR BUDGET ESTIMATE = \$				700,000



Note: These costs were developed without the benefit of field surveys or soils investigation.
 A final cost estimate will be dependent upon development of these items and further design.

ENGINEERING COST ESTIMATE

PROJECT: Construct Seaplane Ramp
 LOCATION: Lenawee County Airport
 CITY: Adrian, MI
 DATE: 7/24/09
 PREPARED BY: BJH
 REVIEWED BY: SCT 6/9/2011

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2011 DOLLARS

WORK DESCRIPTION: Seaplane ramp (75' x 150'), access drive (625' x 12'), power slide gate (50'), area light

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 25,000.00	\$ 25,000
Safety and Security	LS	1	\$ 5,000.00	\$ 5,000
Electrical Service and Lighting	LS	1	\$ 25,000.00	\$ 25,000
50' Power Slide Gate	EA	1	\$ 25,000.00	\$ 25,000
Unclassified Excavation (21")	CY	510	\$ 10.00	\$ 5,100
Sand Subbase (18")	CY	500	\$ 20.00	\$ 10,000
Gravel Base (6")	CY	200	\$ 40.00	\$ 8,000
Bituminous Surface (3")	TON	170	\$ 85.00	\$ 14,450
Seaplane Ramp Planks	EA	76	\$ 1,000.00	\$ 76,000
Seaplane Dock (8 ft wide)	LF	60	\$ 280.00	\$ 16,800
Seaplane Ramp Excavation	CY	400	\$ 25.00	\$ 10,000
Seaplane Ramp Gravel	CY	200	\$ 45.00	\$ 9,000
Pavement Marking	LS	1	\$ 2,000.00	\$ 2,000
Drainage	LS	1	\$ 10,000.00	\$ 10,000
Turfing and Mulching	AC	3	\$ 4,000.00	\$ 12,000
CONSTRUCTION TOTAL = \$				253,350
CONSTRUCTION CONTINGENCIES (15%) = \$				38,003
CONSTRUCTION TOTAL = \$				291,353
ENGINEERING DESIGN (7%) = \$				20,395
CONSTRUCTION ADMIN (10%) = \$				29,135
				\$ 340,882
PROJECT YEAR BUDGET ESTIMATE = \$				350,000



Note: These costs were developed without the benefit of field surveys or soils investigation.
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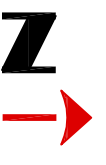
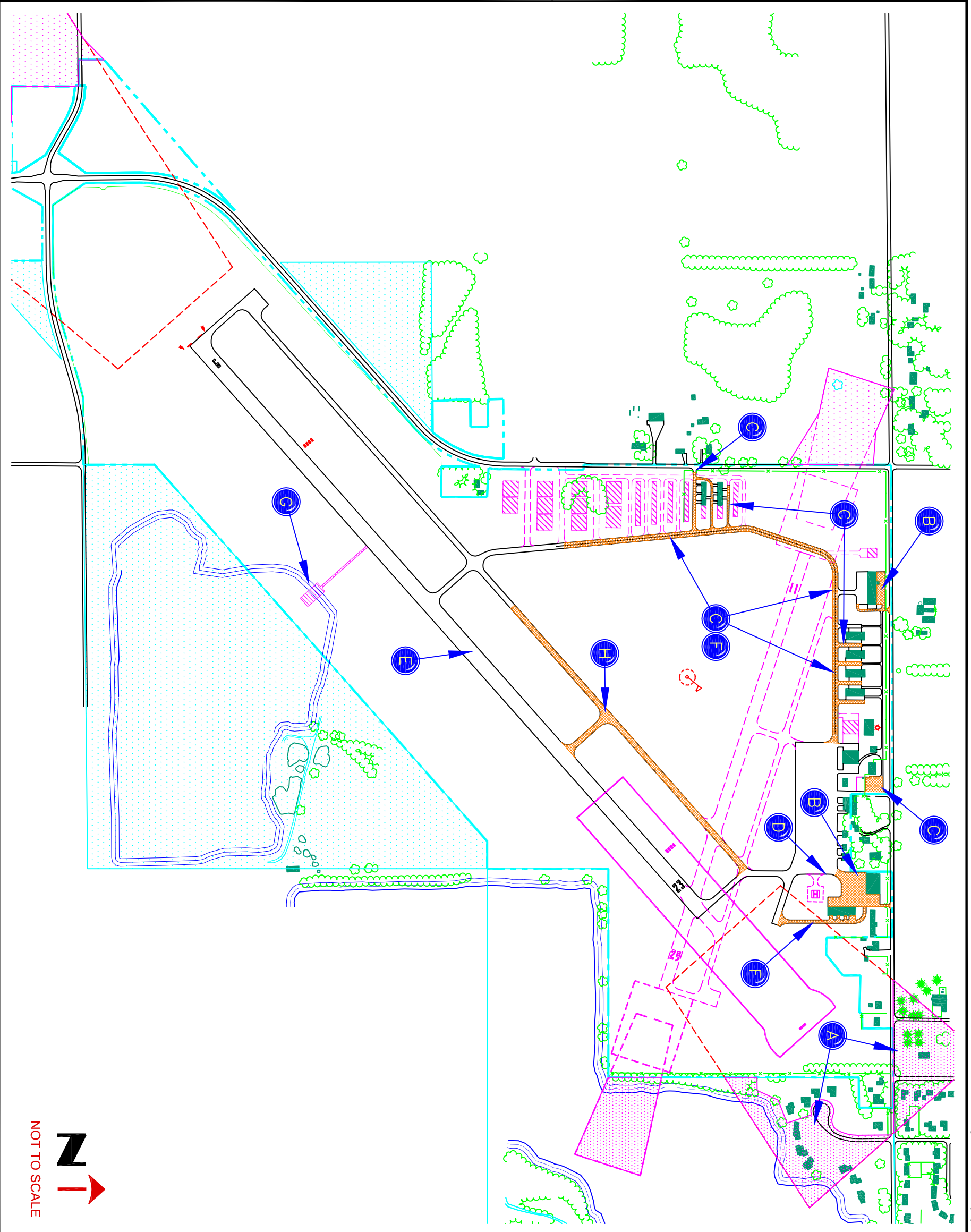
LENAWEE COUNTY AIRPORT ADRIAN, MICHIGAN



FAA IDENTIFIER: ADG
STATE ID: 46-01

TEN-YEAR DEVELOPMENT PLAN - YEARS 2012 TO 2022

YEAR - 2012	A — LAND ACQUISITION FOR RUNWAY 23 APPROACH
YEAR - 2013	B — REHABILITATE EAST RAMP AND WEST AUTO PARKING LOT CARRY FORWARD REMAINDER OF GA ENTITLEMENT (\$15,000) FOR 2014 CONSTRUCTION
YEAR - 2014	C — RECONSTRUCT PARKING LOT, REHAB NORTH AND WEST TAXILANES, JOINT REPAIR AND CRACK SEAL TWY B
YEAR - 2015	CARRY FORWARD GA ENTITLEMENT (\$150,000) FOR 2016 CONSTRUCTION
YEAR - 2016	D — INSTALL 12,000 GALLON ABOVE GROUND STORAGE TANK CARRY FORWARD REMAINDER OF GA ENTITLEMENT (\$5,500) FOR 2017 CONSTRUCTION
YEAR - 2017	E — AIRFIELD PAVEMENT MARKING CARRY FORWARD REMAINDER OF GA ENTITLEMENT (\$116,550) FOR 2019 CONSTRUCTION
YEAR - 2018	CARRY FORWARD REMAINDER OF GA ENTITLEMENT (\$266,550) FOR 2019 CONSTRUCTION
YEAR - 2019	F — REHABILITATE TAXWAY B AND EAST HANGAR TAXILANE
YEAR - 2020	ALP UPDATE (INCLUDE SEAPLANE BASE) CARRY FORWARD GA ENTITLEMENT (\$83,500) FOR 2022 CONSTRUCTION
YEAR - 2021	CARRY FORWARD GA ENTITLEMENT (\$233,500) FOR 2022 CONSTRUCTION
YEAR - 2022	G — CONSTRUCT SEAPLANE RAMP H — DESIGN REHAB NORTHEAST HALF OF TAXWAY A CARRY FORWARD REMAINDER OF GA ENTITLEMENT (\$19,607) FOR 2023 CONSTRUCTION



NOT TO SCALE

Design By: GWS
Drawn By: GWS
Approved By: GWS

MICHIGAN AIRPORT PROGRAM (MAP) MEETINGS

Attendance Sheet

Airport: Adrian

Date: September 8, 2011

PLEASE PRINT

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