

**MICHIGAN AIRPORT DEVELOPMENT
PROGRAM PACKAGE
MDOT Office of Aeronautics**

**Airport Capital Improvement Plan
2014-2018**

Prepared for:

**Oakland Southwest Airport
New Hudson, Michigan**

August 2013

Contact:

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Prepared by:

Mead&Hunt

MICHIGAN STATE BLOCK GRANT PROGRAM
AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2014* to FY-2018

Airport Name: Oakland S.W. Airport	Date prepared: 8-9-13 saw
Associated City: New Hudson	Airport Identifier: Y47
Sponsor: Oakland County	Prepared By: Mead & Hunt - SAW/RJE
	Sponsor email address & phone: Karl Randall <randall@co.oakland.mi.us> 248-666-3900

NPIAS Airport Code: 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.
	Carryover \$ 150,000 FY 2013										
2014	Phase I - Land Acquisition - Rwy 26 Approach	Yes	ST RW SF	48	\$300,000	\$532,500		\$46,250	\$46,250	\$925,000	
	Phase II - Land Acquisition - Rwy 8 Approach	Yes	ST RW SF	48	\$0	\$823,500		\$45,750	\$45,750	\$915,000	
	Phase I - Approach Clearing - Rwy 26 Approach	Yes	ST RW SF	48	\$0	\$22,500		\$1,250	\$1,250	\$25,000	
	Tree Mitigation for Huron Valley Trail	Yes	ST RW SF	48	\$0	\$45,000		\$2,500	\$2,500	\$50,000	
	Phase II - Approach Clearing - Runway 8 Approach	Yes	ST RW SF	48	\$0	\$70,200		\$3,900	\$3,900	\$78,000	
2015	Wetland Mitigation	Yes	ST RW SF	48	\$0	\$230,400		\$12,800	\$12,800	\$256,000	
	Power Line Relocation	Yes	ST RW SF	48	\$0	\$405,000		\$22,500	\$22,500	\$450,000	
	Design for Runway 8/26 Rehab Project	Yes	RE RW IM	70	\$0	\$126,000		\$7,000	\$7,000	\$140,000	
	Install fencing/gate	Yes	ST EQ SE	41	\$31,500	\$0		\$1,750	\$1,750	\$35,000	
2016	Rehabilitate & Widen Runway 8/26 - including MIRL, PAPI and ditch relocation for RSA improvements	Yes	RE RW IM	70	\$150,000	\$1,722,000		\$104,000	\$104,000	\$2,080,000	
	SRE Equipment, 3/4 Ton Truck with Plow	NA	ST EQ SN	47	\$36,000	\$0		\$2,000	\$2,000	\$40,000	
	Security Fencing Phase I	NO	ST EQ SE	41	\$112,500	\$0		\$6,250	\$6,250	\$125,000	
	Carryover \$ 0										
2017	Design engineering for taxilanes & apron rehabilitation	Yes	RE TW IM	66	\$45,900	\$0		\$2,550	\$2,550	\$51,000	

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	Carryover \$ 104,100										
2018	Rehabilitate taxilanes and aprons	Yes	RE TW IM	66	\$254,100	\$240,900		\$27,500	\$27,500	\$550,000	
	Carryover \$ 0										
2019	Carryover \$150,000	NA			\$0			\$0	\$0	\$0	

* Proposed airport development must be shown on current FAA approved ALP prior to funding project.

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

ENGINEERING COST ESTIMATE

LOCATION: Oakland Southwest Airport
 CITY: New Hudson, MI
 DATE: 11/9/09
 PREPARED BY: BJH

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2009 DOLLARS

WORK DESCRIPTION: Rehab runway 8/26 to proposed 3128' x 60'. Construct east portion of parallel taxiway. Relocate ditch outside of runway 8 safety area.

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$140,000.00	\$140,000
Safety and Security	LS	1	\$40,000.00	\$40,000
Runway Strip Marker or Circle Segment	EA	20	\$500.00	\$10,000
Runway Centerline Monument	EA	2	\$500.00	\$1,000
Airport Windcone, 12', Lighted, L807 Type III	EA	1	\$6,000.00	\$6,000
Underground Cable, 1/C, #8, 5KV, L824, Type C, Installed	LF	18,500	\$1.50	\$27,750
Misc. Bare Copper Counterpoise Wire, #6 Solid, Plowed In Place	LF	17,500	\$0.75	\$13,125
Furnish and Install Specified Electrical Vault Equipment	LS	1	\$25,000.00	\$25,000
Construct Airport Electrical Vault Building, As Specified	EA	1	\$25,000.00	\$25,000
Underground Electrical Duct, 2 Bank 3", Direct Burial	LF	100	\$15.00	\$1,500
Underground Electrical Duct, 4 Bank 3", Direct Burial	LF	40	\$20.00	\$800
Medium Intensity Edge Light, L861 (MIRL/MITL), 30" High, 6.6A, Stake Mount, Complete Except Lens & Lamp	EA	60	\$450.00	\$27,000
Lens & Lamp for MIRL	EA	60	\$75.00	\$4,500
Taxiway Guidance Signs	EA	6	\$4,000.00	\$24,000
Remove Existing Medium Intensity Stake Mounted Light	EA	54	\$100.00	\$5,400
Precision Approach Path Indicator (PAPI), 2 Box, Installed	SET	2	\$15,000.00	\$30,000
Misc. Edge Light Number Tags, Installed	EA	60	\$25.00	\$1,500
Misc. Remove Visual Approach Slope Indicator (VASI) System	SET	2	\$1,000.00	\$2,000
Unclassified Excavation	CY	22,000	\$5.00	\$110,000
Sand Subbase, Material As Specified, Compacted Measure	CY	7,000	\$10.00	\$70,000
Open Graded Aggregate Course, Material As Specified, Compacted In Place	CY	3,500	\$27.00	\$94,500
Aggregate Base Course, Material As Specified, Compacted In Place	CY	3,500	\$40.00	\$140,000
Sawing Bit. Pavement, Specified Dimensions	LF	150	\$4.00	\$600
Remove Bit. Pavement, Less Than 6" Thickness	SY	14,000	\$0.75	\$10,500
Bituminous Aggregate Surface Course, 20AAX Composition	TON	3,800	\$80.00	\$304,000
Airport Pavement Marking, Striated White, With Reflective Beads	SFT	10,000	\$0.40	\$4,000
Airport Pavement Marking, Solid Yellow, With Reflective Beads	SFT	2,000	\$0.50	\$1,000
Misc. Reduced Rate Pavement Marking	SFT	1,500	\$0.25	\$375
Misc. Silt Fence, As Specified, Installed	LF	7,000	\$2.00	\$14,000
Misc. Geogrid/Separation Fabric, Installed	SYD	42,000	\$7.00	\$294,000
Misc. Permit Fee Allowance	DLRS	2,000	\$1.00	\$2,000
Misc. Electrical Service Allowance	DLRS	15,000	\$1.00	\$15,000
Turfing With Mixture and Rate, As Specified	AC	15	\$1,000.00	\$15,000
Topsoiling From Offsite, Material Furnished by Contractor	CY	2,000	\$25.00	\$50,000
Misc. Mulching As Specified	AC	15	\$1,000.00	\$15,000
Ditch Relocation, 500 ft	CY	2,500	\$20.00	\$50,000
			CONSTRUCTION SUBTOTAL =	\$1,574,550
			CONSTRUCTION CONTINGENCY (20%)=	\$314,910
			CONSTRUCTION TOTAL =	\$1,889,460
			DESIGN (7%) =	\$132,262
			CONSTRUCTION ADMIN (10%) =	\$188,946
			TOTAL =	\$2,210,668
			BUDGET ESTIMATE	\$2,220,000



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.

OAKLAND SOUTHWEST AIRPORT NEW HUDSON, MICHIGAN



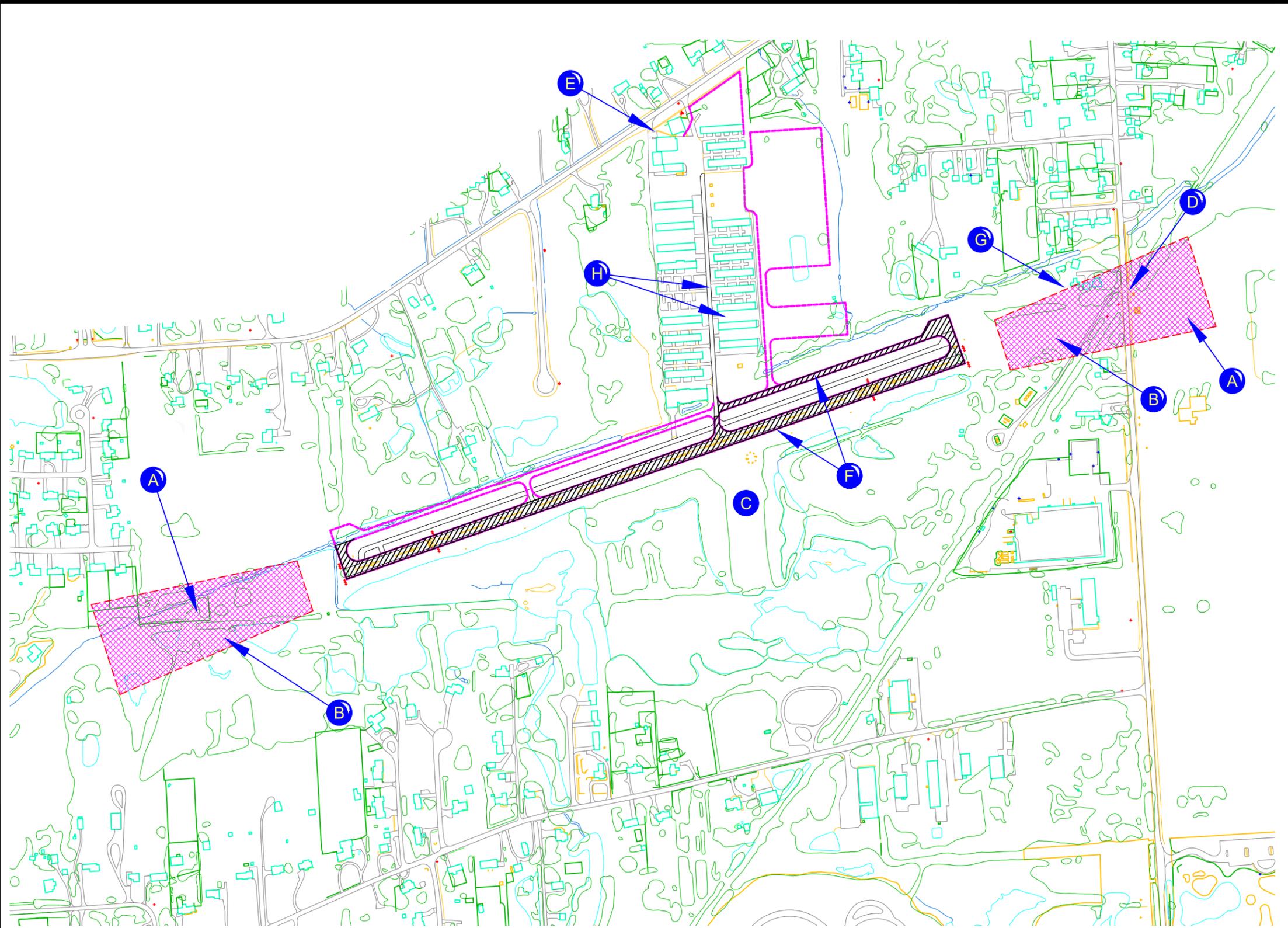
AIRPORT DEVELOPMENT PLAN - YEARS 2014 TO 2019

FAA IDENTIFIER: Y47
STATE ID: 63-08

- YEAR - 2014**
- A** — LAND ACQUISITION FOR APPROACH PROTECTION & RSA (PHASE I & II)
 - B** — APPROACH CLEARING & TREE MITIGATION
-
- YEAR - 2015**
- C** — WETLAND MITIGATION
 - D** — POWER LINE RELOCATION
 - E** — INSTALL FENCING/GATE
 - F** — DESIGN FOR RUNWAY 8/26 REHABILITATION
-
- YEAR - 2016**
- F** — REHABILITATE & WIDEN RUNWAY 8/26 - INCLUDING MIRL, PAPI, AND DITCH RELOCATION FOR RSA IMPROVEMENTS
SRE EQUIPMENT, 3/4 TON TRUCK WITH PLOW
 - G** — SECURITY FENCING PHASE I
-
- YEAR - 2017**
- H** — DESIGN ENGINEERING FOR TAXILANES AND APRON REHABILITATION
-
- YEAR - 2018**
- H** — REHABILITATE TAXILANES AND APRON

YEAR - 2019

CARRY FORWARD GA ENTITLEMENTS (\$150,000)



August 9, 2013 - 63-8_Y47_sketch2014.dwg