

MICHIGAN AIRPORT DEVELOPMENT PROGRAM

AIP CAPITAL IMPROVEMENT PLAN 2012-2022

FEDERAL/STATE/LOCAL



Ann Arbor Municipal Airport

Ann Arbor, MI

Date of Latest ALP - **2008**
ACIP Airport Code - **A**
Airport Identifier - **ARB**



MDOT-AERO
2700 E AIRPORT SERVICE DRIVE
LANSING, MICHIGAN 48906

Prepared by: URS Corporation
Sponsor: City of Ann Arbor
Submitted by: Matt Kulhanek
Date: July 26, 2011

TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2012 to FY-2022

ARB Ann Arbor Municipal Airport

Year	Project Description	Cost*	Remarks/Item Justification
2012	Available Federal Entitlements (NPE) \$200,000 (\$50,000 Carryover from 2011)		
	Terminal Parking Lot Expansion & Relocate Airport Drive Phase I	\$ 210,000	The current parking lot is too small for daily usage. It is frequently at full capacity. To accomodate current demand additional space is needed. Airport Drive is located north of the parking lot and will need to be relocated to expand the parking lot. If the EA prevents the runway construction from occurring in 2012 this project will be designed and built in 2012.
	800' Runway & Taxiway Extension Construction	\$ 1,732,000	Existing runway will be lengthened to 4300'. Runway will also be shifted 150' to the west to provide clearance over State Road on the East side of the airport. Parallel taxiway will be extended to match the new runway. Connector taxiway on the southeast side will be relocated to the new runway end. All taxiway and runway edge lights will be replaced with LED fixtures.
	Fed \$1,844,900 - State \$48,550 - Local \$48,550 - Total \$1,942,000		Funds in addition to NPE are needed for this year.
2013	Available Federal Entitlements (NPE) \$150,000		
	Close Airport Drive (Gate and Fence Relocation)	\$ 81,000	The current layout of the road and gates in the northeast corner of the airport makes it difficult to control access to the airport. A portion of this road will be closed and the fence and gates relocated to improve the control of access to the airport.
	Fed \$76,950 - State \$2,025 - Local \$2,025 - Total \$81,000		Carryover \$73,050
2014	Available Federal Entitlements (NPE) \$223,050		
	Rehabilitate Existing Airport Access Road	\$ 327,000	Existing access road is over 20 years old and needs rehabilitation. Bulvard will be added at north end for better visibility and signage. Signage will be a local only item.
	Airport Signage (Local Only)	\$ 5,000	Signage will be added at north end of access road to increase visibility.
Fed \$315,400 - State \$8,300 - Local \$8,300 - Total \$332,000		Funds in addition to NPE are needed for this year.	
2015	Available Federal Entitlements (NPE) \$150,000		
	Carryover for Future Project	\$ -	0
	Fed \$0 - State \$0 - Local \$0 - Total \$0		Carryover \$150,000
2016	Available Federal Entitlements (NPE) \$300,000		
	Terminal Building Expansion and Renovation	\$ 304,000	Existing terminal building is too small to meet current needs. Additional insulation will be added to existing building to conserve energy. Renovations will be necessary to meet current ADA and other codes.
	Fed \$288,800 - State \$7,600 - Local \$7,600 - Total \$304,000		Carryover \$11,200
2017	Available Federal Entitlements (NPE) \$161,200		
	SRE Equipment (Tractor with Broom)	\$ 179,000	Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.
	Fed \$170,050 - State \$4,475 - Local \$4,475 - Total \$179,000		Funds in addition to NPE are needed for this year.
2018	Available Federal Entitlements (NPE) \$150,000		
	Reconstruct SE and NE Taxiways	\$ 1,138,000	Pavements are aging and will need replacement. PCI was 80 and 82 for these pavements in 2005.
	Taxilanes for New Box Hangars	\$ 193,000	New taxilanes will be needed for additional hangars. Hangars will be build with local funding. This will be on the back side of the existng Box Hangars built in 2009.
Fed \$1,264,450 - State \$33,275 - Local \$33,275 - Total \$1,331,000		Funds in addition to NPE are needed for this year.	
2019	Available Federal Entitlements (NPE) \$150,000		
	Rehabilitate and Expand Apron with Lighting	\$ 1,557,000	Apron pavement is aging and will need reconstruction. 6" concrete overlay will provide cost effective construction. There has been a steady growth in transient corporate flights into the airport along with the continual expansion of helicopter activity requiring increased aircraft parking. The airport is also experiencing a growth in tie-down activity in conjunction with an increased activity on football weekends and other similar community and University event days. The terminal aircraft parking apron is frequently full on many weekdays with large corporate aircraft and tie-down users. Apron lights are old and require replacement. LED replacement lights will be installed. PCI in the Apron was 90 in 2005.
	SRE Equipment (Truck)	\$ 321,000	Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.
Fed \$1,784,100 - State \$46,950 - Local \$46,950 - Total \$1,878,000		Funds in addition to NPE are needed for this year.	
2020	Available Federal Entitlements (NPE) \$150,000		
	Hangar Site Work	\$ 128,000	Currently, a detention pond is blocking development of additional corporate hangar space. Relocation of the pond will develop new corporate hangar space and apron. Pipe will need to tie into drainage system that outlets in pond to the northwest. Pavements will be crossed by pipe and will be restored.
	Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	\$ 80,000	Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.
Fed \$197,600 - State \$5,200 - Local \$5,200 - Total \$208,000		Funds in addition to NPE are needed for this year.	
2021	Available Federal Entitlements (NPE) \$178,400		
	Hangar Access Road Phase II	\$ 353,000	Road will provide better access for users of hangars. Will increase safety and security by providing them with separate access road.
	Fed \$335,350 - State \$8,825 - Local \$8,825 - Total \$353,000		Funds in addition to NPE are needed for this year.
2022	Available Federal Entitlements (NPE) \$150,000		
	Fed \$0 - State \$0 - Local \$0 - Total \$0		Carryover \$150,000

* Includes Federal Cost of 95%, State Cost of 2.5%, and Local Cost of 2.5%. When costs exceed available Federal Entitlements (NPE), additional funding will be needed from Federal Apportionment or Federal Discretionary funds.

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

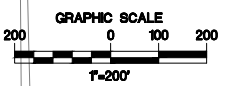
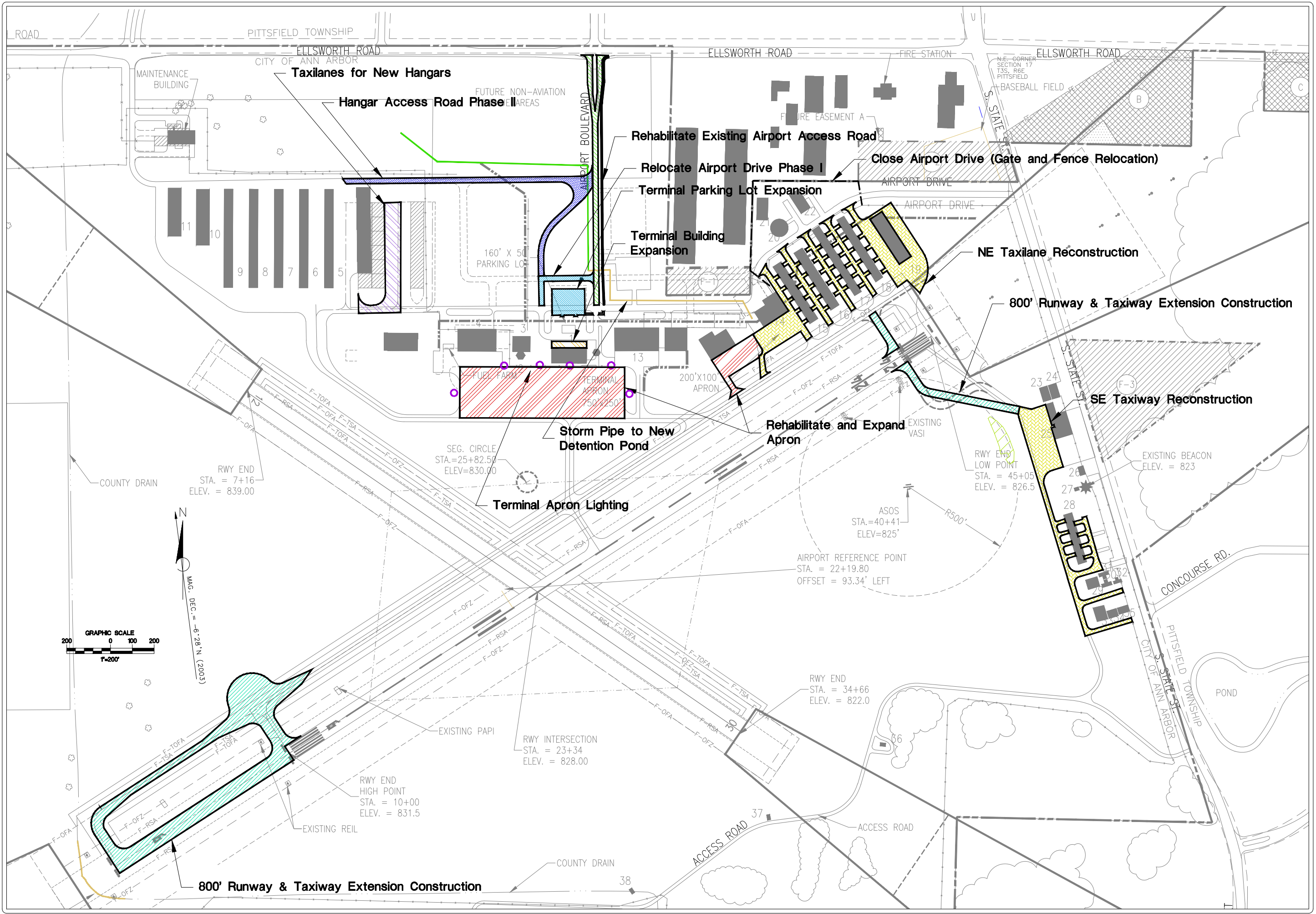
*ACIP includes current development year (2012 already programmed - minor changes acceptable)

Airport Name: Ann Arbor Municipal Airport	Date prepared: 07-26-11
Associated City: Ann Arbor, MI	Prepared By: URS Corporation
Sponsor: City of Ann Arbor	Sponsor email address & phone: 734-994-2841 MJKulhanek@A2gov.org
Airport Identifier: ARB	FINAL ACIP due to MDOT AERO: no later than 12/1/11

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					<i>Available Entitlements</i>	\$ 200,000	(\$150,000 NPE plus \$50,000 NPE carryover from 2011.)				
	Terminal Parking Lot Expansion & Relocate Airport Drive Phase I	Yes	OT-OT-PA	19	\$ 199,500	\$ -		\$ 5,250	\$ 5,250	\$ 210,000	The current parking lot is too small for daily usage. It is frequently at full capacity. To accomodate current demand additional space is needed. Airport Drive is located north of the parking lot and will need to be relocated to expand the parking lot. If the EA prevents the runway construction from occurring in 2012 this project will be designed and built in 2012.
	800' Runway & Taxiway Extension Construction	Yes	CA-RW-EX	56	\$ 500	\$ 1,644,900		\$ 43,300	\$ 43,300	\$ 1,732,000	Existing runway will be lengthened to 4300'. Runway will also be shifted 150' to the west to provide clearance over State Road on the East side of the airport. Parallel taxiway will be extended to match the new runway. Connector taxiway on the southeast side will be relocated to the new runway end. All taxiway and runway edge lights will be replaced with LED fixtures.
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
2013					<i>Available Entitlements</i>	\$ 150,000					
	Close Airport Drive (Gate and Fence Relocation)	Yes	ST-EQ-SE	43	\$ 76,950	\$ -		\$ 2,025	\$ 2,025	\$ 81,000	The current layout of the road and gates in the northeast corner of the airport makes it difficult to control access to the airport. A portion of this road will be closed and the fence and gates relocated to improve the control of access to the airport.
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ 73,050					\$ 73,050	
2014					<i>Available Entitlements</i>	\$ 223,050					
	Rehabilitate Existing Airport Access Road	Yes	OT-GT-AC	23	\$ 223,050	\$ 87,600		\$ 8,175	\$ 8,175	\$ 327,000	Existing access road is over 20 years old and needs rehabilitation. Bulvard will be added at north end for better visibility and signage. Signage will be a local only item.
	Airport Signage (Local Only)	Yes	OT-GT-AC	23	\$ -	\$ -		\$ -	\$ 5,000	\$ 5,000	Signage will be added at north end of access road to increase visibility.
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
2015					<i>Available Entitlements</i>	\$ 150,000					
	Carryover for Future Project				\$ -	\$ -		\$ -	\$ -	\$ -	0
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ 150,000					\$ 150,000	
2016					<i>Available Entitlements</i>	\$ 300,000					
	Terminal Building Expansion and Renovation	Yes	CA-TE-IM	44	\$ 288,800	\$ -		\$ 7,600	\$ 7,600	\$ 304,000	Existing terminal building is too small to meet current needs. Additional insulation will be added to existing building to conserve energy. Renovations will be necessary to meet current ADA and other codes.
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ 11,200					\$ 11,200	
2017					<i>Available Entitlements</i>	\$ 161,200					
	SRE Equipment (Tractor with Broom)	NA	ST-EQ-SN	48	\$ 161,200	\$ 8,850		\$ 4,475	\$ 4,475	\$ 179,000	Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
2018					<i>Available Entitlements</i>	\$ 150,000					
	Reconstruct SE and NE Taxiways	Yes	RE-TW-IM	68	\$ 150,000	\$ 931,100		\$ 28,450	\$ 28,450	\$ 1,138,000	Pavements are aging and will need replacement. PCI was 80 and 82 for these pavements in 2005.
	Taxilanes for New Box Hangars	Yes	ST-PB-MS	40	\$ -	\$ 183,350		\$ 4,825	\$ 4,825	\$ 193,000	New taxilanes will be needed for additional hangars. Hangars will be build with local funding. This will be on the back side of the existng Box Hangars built in 2009.
					\$ -	\$ -				\$ -	
2019					<i>Available Entitlements</i>	\$ 150,000					
	Rehabilitate and Expand Apron with Lighting	Yes	RE-AP-IM	62	\$ 150,000	\$ 1,329,150		\$ 38,925	\$ 38,925	\$ 1,557,000	Apron pavement is aging and will need reconstruction. 6" concrete overlay will provide cost effective construction. There has been a steady growth in transient corporate flights into the airport along with the continual expansion of helicopter activity requiring increased aircraft parking. The airport is also experiencing a growth in tie-down activity in conjunction with an increased activity on football weekends and other similar community and University event days. The terminal aircraft parking apron is frequently full on many weekdays with large corporate aircraft and tie-down users. Apron lights are old and require replacement. LED replacement lights will be installed. PCI in the Apron was 90 in 2005.
	SRE Equipment (Truck)	NA	ST-EQ-SN	48	\$ -	\$ 304,950		\$ 8,025	\$ 8,025	\$ 321,000	Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.
					\$ -	\$ -				\$ -	
2020					<i>Available Entitlements</i>	\$ 150,000					
	Hangar Site Work	Yes	ST-PB-MS	40	\$ 121,600	\$ -		\$ 3,200	\$ 3,200	\$ 128,000	Currently, a detention pond is blocking development of additional corporate hangar space. Relocation of the pond will develop new corporate hangar space and apron. Pipe will need to tie into drainage system that outlets in pond to the northwest. Pavements will be crossed by pipe and will be restored.
	Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	Yes	RE-RW-IM	72	\$ 28,400	\$ 47,600		\$ 2,000	\$ 2,000	\$ 80,000	Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.
					\$ -	\$ -				\$ -	
2021					<i>Available Entitlements</i>	\$ 150,000					
	Hangar Access Road Phase II	Yes	OT-GT-AC	23	\$ 150,000	\$ 185,350		\$ 8,825	\$ 8,825	\$ 353,000	Road will provide better access for users of hangars. Will increase safety and security by providing them with separate access road.
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
2022					<i>Available Entitlements</i>	\$ 150,000					
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					\$ 150,000					\$ 150,000	

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

M:\Projects\12940723\CADD\PDSS\5 YEAR PLAN.dwg (PLOT) Jul 21, 2011 2:00pm Plotted by Joe Van Duinen
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DATE	ISSUED FOR
12/17/07	MOOT DRAFT REVIEW
03/27/08	EAM INSURANCE REVIEW
06/27/08	ALP PUBLICATION

IN CHARGE	W. MALINOWSKI
QC	CC
SQC DR	DR
PM	RUC
D/E	JW

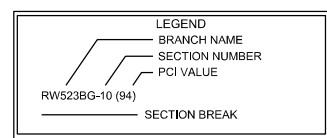
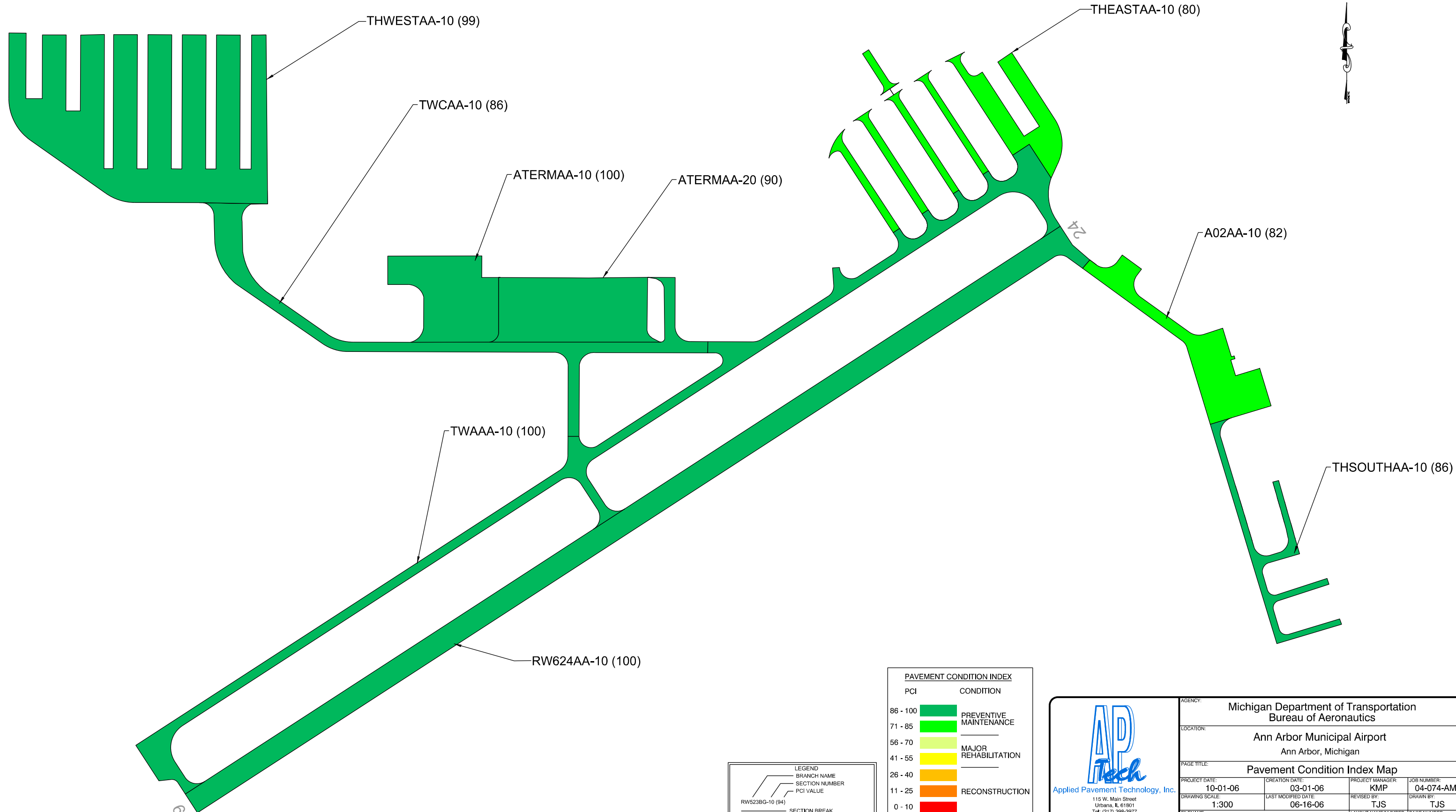
CRANDALL PAPER, INC.
 3550 SPARKS DR. S.E.
 616 574-8500

ANN ARBOR MUNICIPAL AIRPORT
 AIRPORT LAYOUT PLAN
 5 YEAR PLAN
 ANN ARBOR, MICHIGAN

STATE NUMBER
81-1

DRAWING
1

12940723



PAVEMENT CONDITION INDEX	
PCI	CONDITION
86 - 100	PREVENTIVE MAINTENANCE
71 - 85	MAJOR REHABILITATION
56 - 70	RECONSTRUCTION
41 - 55	
26 - 40	
11 - 25	
0 - 10	

AP Tech
 Applied Pavement Technology, Inc.
 115 W. Main Street
 Urbana, IL 61901
 Tel: (217) 398-3977
 Fax: (217) 398-4027

AGENCY: Michigan Department of Transportation Bureau of Aeronautics			
LOCATION: Ann Arbor Municipal Airport Ann Arbor, Michigan			
PAGE TITLE: Pavement Condition Index Map			
PROJECT DATE: 10-01-06	CREATION DATE: 03-01-06	PROJECT MANAGER: KMP	JOB NUMBER: 04-074-AM1
DRAWING SCALE: 1:300	LAST MODIFIED DATE: 06-16-06	REVISED BY: TJS	DRAWN BY: TJS
FILENAME: AnnArborMunicipal.dwg		LAYOUT NAME/NUMBER: PCI	PAGE NUMBER: Figure 8

