Barnard Dunkelberg & Company
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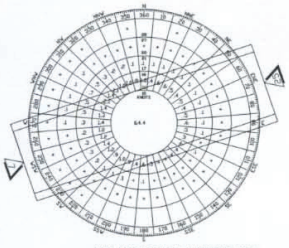
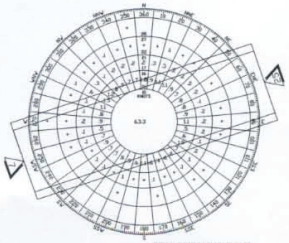


ALL WEATHER WINDROSE

Wind Coverage Provided Under All Weather Conditions

	10.5-Knot	13-Knot
Runway 7	51.99%	55.78%
Runway 25	69.99%	75.91%
Combined 7/25	84.76%	92.00%

Source: National Oceanic and Atmospheric Administration, National Climatic Data Center, Station 72537 Pontiac-Oakland, Michigan. Period of Record 1985-1995

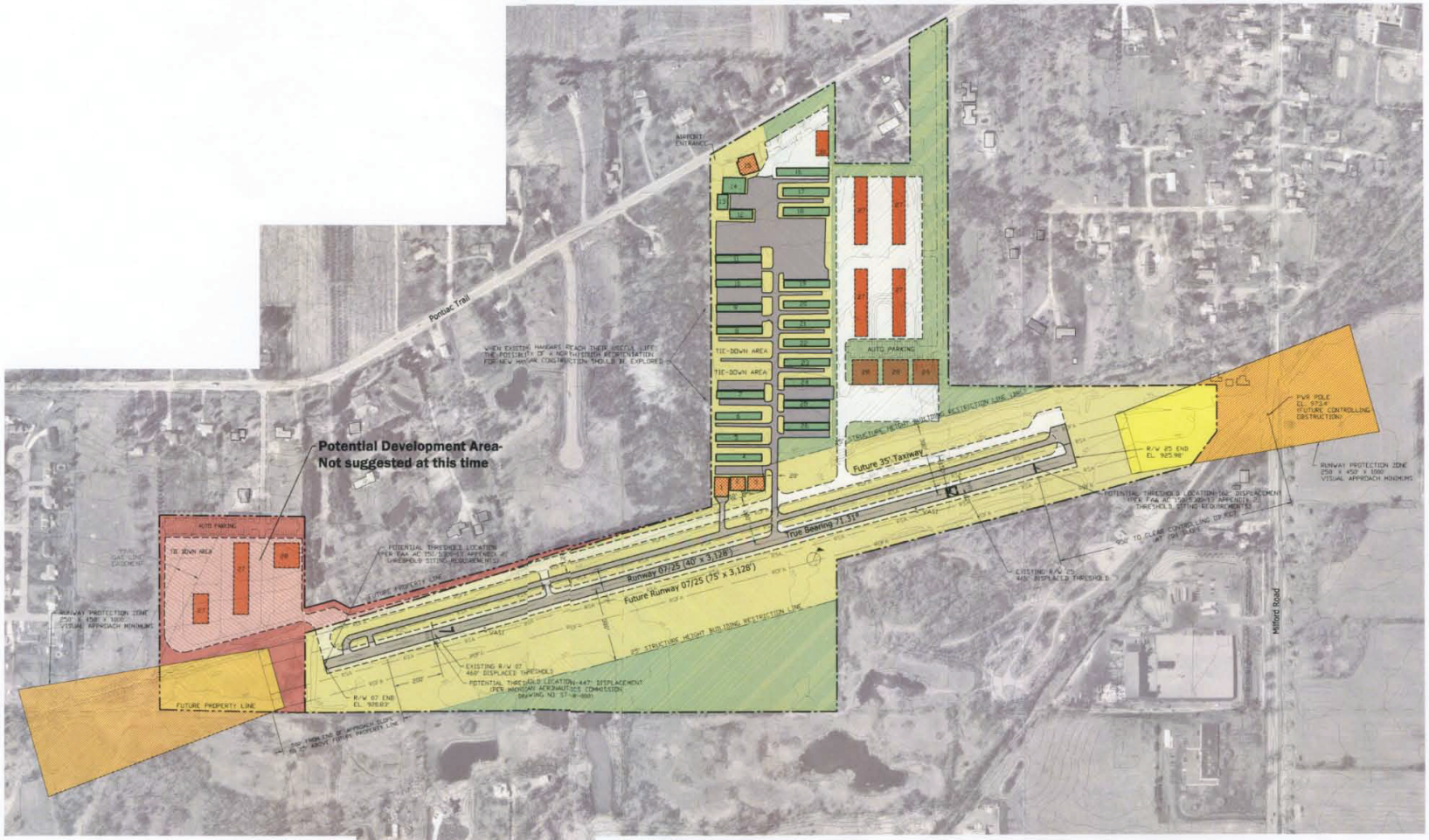


IFR WINDROSE

Wind Coverage Provided Under IFR Conditions
5-Knot Tailwind to Maximum Headwind

	10.5-Knot	13-Knot
Runway 7	50.97%	65.36%
Runway 25	59.58%	65.11%
Combined 7/25	82.76%	90.76%

Source: National Oceanic and Atmospheric Administration, National Climatic Data Center, Station 72537 Pontiac-Oakland, Michigan. Period of Record 1985-1995.
* Ceiling of less than 1,000 feet, but equal to or greater than 500 feet and/or visibility less than three miles, but equal to or greater than one-half mile.



RUNWAY DATA

	RUNWAY 07/25	
	EXISTING	FUTURE
APPROACH VISIBILITY MINIMUMS	VISUAL/VISUAL	VISUAL/VISUAL
FAR PART 77 CATEGORY	A (V)/A (V)	A (V)/A (V)
FAR PART 77 APPROACH SURFACE SLOPE	20:1/20:1	20:1/20:1
RUNWAY WIDTH X LENGTH	40' X 3,128'	40' X 3,128'
PAVEMENT TYPE	ASPHALT	ASPHALT
PAVEMENT STRENGTH (IN 1000 LBS.)	12.5 SW	12.5 SW
RUNWAY LIGHTING	LIRL	LIRL
RUNWAY MARKING	BASIC(VISUAL)	BASIC(VISUAL)
EFFECTIVE RUNWAY GRADIENT %	0.2	0.2
MAXIMUM GRADE WITHIN RUNWAY LENGTH	EXISTING	FUTURE
RUNWAY LINE-OF-SITE	CRITERIA MET	CRITERIA MET
WIND COVERAGE % (10.5/13 KNOTS)	84.76/92.00	84.76/92.00
VISUAL APPROACH AIDS	VASI	PAPI
INSTRUMENT APPROACH AIDS	VOR	VOR, GPS-A
AIRPORT REFERENCE CODE	B-I SMALL A/C	B-I SMALL A/C
CRITICAL AIRCRAFT	PIPER CHEYENNE	PIPER CHEYENNE
RUNWAY SAFETY AREA DIMENSIONS	120' X 3,368'	120' X 3,368'
RUNWAY OBJECT FREE AREA DIMENSIONS	250' X 3,368'	250' X 3,368'
OBSTACLE FREE ZONE CRITERIA	CRITERIA MET	CRITERIA MET
RUNWAY END COORDINATES	LAT. 42°30'06.300"N LON. 83°37'45.130"W	LAT. 42°30'06.300"N LON. 83°37'45.130"W
	LAT. 42°30'16.200"N LON. 83°37'05.060"W	LAT. 42°30'16.200"N LON. 83°37'05.060"W
RUNWAY ELEVATIONS END	921.0'/926.0'	921.0'/926.0'
HIGH POINT	926.0'	926.0'
LOW POINT	921.0'	921.0'
TOUCHDOWN ZONE ELEVATION	925.3'/926.0'	925.3'/926.0'
DECLARED DISTANCES TORA		
TODA		
ASDA		
LDA		
DISPLACED THRESHOLD COORDINATES	LAT. 42°30'07.760"N LON. 83°37'39.300"W	LAT. 42°30'07.760"N LON. 83°37'39.300"W
	LAT. 42°30'14.730"N LON. 83°37'11.440"W	LAT. 42°30'14.730"N LON. 83°37'11.440"W

LEGEND

- Proposed Property Acquisition Area (Approx. 12 Acres)
- Additional Property To Be Considered For Acquisition (Fee or Easement Approx. 12 Acres)
- Structures To Be Considered For Removal
- Proposed New Runway/Taxiway Pavement (MDOT ALP)
- Potential Landside Development Area (Approx. 24 Acres)

0 100' 200' 400' 600'
GRAPHIC SCALE IN FEET

NOTES

1. This drawing reflects current planning standards applicable to Oakland Southwest Airport to the greatest extent possible. This drawing should not be used as a standard for planning or design.
2. All coordinate data is NAD83.

REVISIONS

NO.	ITEM	DATE	COMMENTS

SPONSOR SIGNATURE DATE

BUILDING DATA

NO.	DESCRIPTION	ELEVATION	NO.	DESCRIPTION	ELEVATION
1	HANGAR	947.28'	16	HANGAR	957.48'
2	HANGAR	949.86'	17	HANGAR	956.26'
3	HANGAR	951.61'	18	HANGAR	955.14'
4	HANGAR	945.19'	19	HANGAR	951.32'
5	HANGAR	944.10'	20	HANGAR	950.85'
6	HANGAR	948.65'	21	HANGAR	949.84'
7	HANGAR	946.97'	22	HANGAR	948.61'
8	HANGAR (w/ LIGHT)	949.67'	23	HANGAR	947.39'
9	HANGAR	950.76'	24	HANGAR	947.41'
10	HANGAR	959.42'	25	HANGAR	947.37'
11	HANGAR	953.11'	26	HANGAR	947.39'
12	HANGAR	958.70'	27	FUTURE T-HANGAR	
13	HANGAR	959.88'	28	FUTURE FBO HANGAR	
14	HANGAR	966.79'	29	FUTURE HANGAR/TERMINAL/OFFICE	
15	HANGAR	966.49'	30	FUTURE COUNTY STORAGE BUILDING	

BUILDING HEIGHT ELEVATIONS SURVEYED BY PECKHAM ENGINEERING, INC. (11/09/01)

AIRPORT DATA

	EXISTING	FUTURE
AIRPORT ELEVATION (AMSL)	926.0'	926.0'
AIRPORT REFERENCE POINT (ARP)	LAT. N 42°30'12.00" LON. W 83°37'24.00"	LAT. N 42°30'12.00" LON. W 83°37'24.00"
AIRPORT REFERENCE CODE	B-I (SMALL A/C)	B-I (SMALL A/C)
NPIAS CATEGORY	GA	GA
MEAN MAX. TEMPERATURE (HOTTEST MONTH)	83.6°	83.6°
TAXIWAY LIGHTING	NONE	NONE
TAXIWAY MARKING	CENTERLINE	CENTERLINE
AIRPORT PROPERTY (ACRES)	76	76
UNICOM (MHz)	-	-
CONTROL TOWER (MHz)	NONE	NONE

LAYOUT PLAN LEGEND

	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
AIRPORT SECURITY FENCE		
AIRPORT BUILDINGS		
AIRFIELD PAVEMENT		
PAVED ROADS		
RUNWAY PROTECTION ZONE		
BUILDING RESTRICTION LINE	BRL	BRL
RUNWAY SAFETY AREA	RSA	RSA
RUNWAY OBJECT FREE AREA	ROFA	ROFA
FUEL STORAGE AREA		
LIGHTED WIND CONE & SEGMENTED CIRCLE		

Graphic 1 - Conceptual Airport Layout Plan
Oakland/Southwest Airport
Charter Township of Lyon, Oakland County, Michigan

SOURCE: AERIAL PHOTOGRAPHY FROM OAKLAND COUNTY GIS DEPARTMENT, OAKLAND COUNTY, MICHIGAN.
CAD FILE FROM PECKHAM ENGINEERING, INC., TRAVERSE CITY, MICHIGAN.

Source: Airport Layout Plan
Barnard Dunkelberg & Company,
August 2005