DRAWN BY: MRR

CHECKED BY: PDH

PREPARED BY:
Ricondo & Associates, Inc.

October 2003

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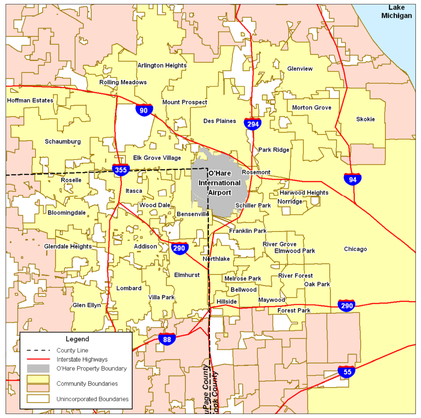
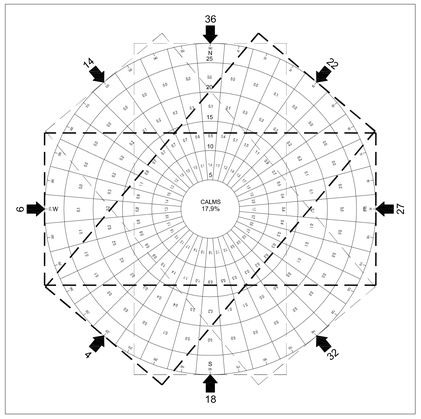
LOCATION MAP

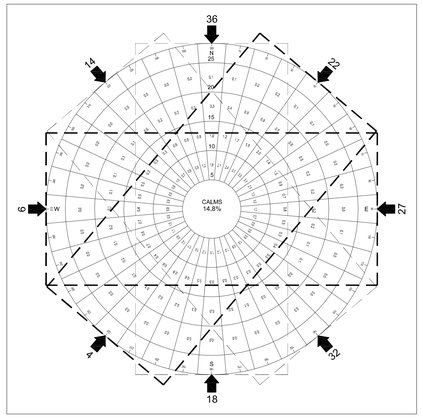
VICINITY MAP



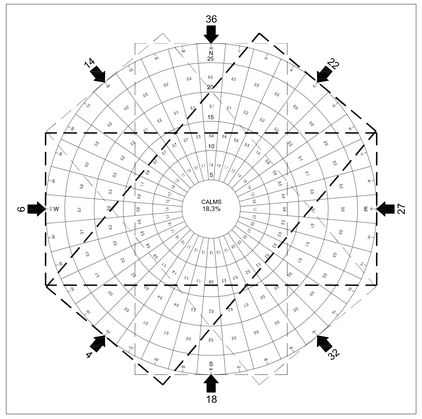
ALL WEATHER WIND ROSE



IFR WIND ROSE



VFR WIND ROSE



AIRPORT DATA TABLE

ITEM		EXISTING	FUTURE
Airport Category		Air Carrier Large Hub	Air Carrier Large Hub
Operational Role		Transport	Transport
Airport Reference Code (ARC)		D-V	D-VI
Airport Reference Point	Latitude	41° 58' 45.6"	41° 58' 37.0"
	Longitude	87° 54' 16.2"	87° 54' 29.3"
	Datums	NAD 83, NGVD 29	NAD 83, NAVD 88
Airport Elevation (NAVD 88)		667.7' MSL	668.3' MSL
Mean Max Temperature (Hottest Month)		84° F	84° F
Distance & Direction from Chicago		16 miles NW	16 miles NW
Land Owned in Fee (Acres)		6,789.0	7,265.2
Avigation Easement (Acres)		514	604
Owner		City of Chicago	City of Chicago
Critical Design Aircraft		Boeing 747-400	Airbus A380
Terminal Navigational Aids		ASR-9, VOR/DME ASDE	ASR-9, VOR/DME ASDE, ASDE-X
Weather Aids		TDWR, LLWAS	TDWR, LLWAS

WIND DATA SOURCE INFORMATION

Source	National Climatic Data Center US Department of Commerce Asheville, North Carolina, USA
Observation Station	O'Hare International Airport, Chicago, Illinois
Period of Record	January 1991 - December 2000
Number of Observations	87,543

ALL WEATHER WIND COVERAGE TABLE

CROSSWIND COMPONENT	RUNWAY COVERAGE			
	4-22	9-27 (10-28)	14-32	18-36
10.5 KTS	90.4%	87.0%	84.4%	88.5%
	96.7% (Future)		N/A	
	100.0% (Exisitng)			
13 KTS	96.3%	94.3%	92.8%	95.1%
	99.0% (Future)		N/A	
	100.0% (Exisitng)			
16 KTS	99.0%	98.3%	97.8%	98.5%
	99.8% (Future)		N/A	
	100.0% (Exisitng)			
20 KTS	99.9%	99.7%	99.5%	99.7%
	100.0% (Future)		N/A	
	100.0% (Exisitng)			

IFR WIND COVERAGE TABLE

CROSSWIND COMPONENT	RUNWAY COVERAGE			
	4-22	9-27 (10-28)	14-32	18-36
10.5 KTS	91.9%	83.1%	79.9%	88.1%
	96.3% (Future)		N/A	
	100.0% (Exisitng)			
13 KTS	96.9%	91.8%	89.5%	95.0%
	98.8% (Future)		N/A	
	100.0% (Exisitng)			
16 KTS	99.1%	97.1%	96.5%	98.5%
	99.7% (Future)		N/A	
	100.0% (Exisitng)			
20 KTS	99.9%	99.4%	99.4%	99.8%
	100.0% (Future)		N/A	
	100.0% (Exisitng)			

VFR WIND COVERAGE TABLE

CROSSWIND COMPONENT	RUNWAY COVERAGE			
	4-22	9-27 (10-28)	14-32	18-36
10.5 KTS	90.2%	87.4%	84.9%	88.6%
	96.7% (Future)		N/A	
	100.0% (Exisitng)			
13 KTS	96.2%	94.5%	93.1%	95.1%
	99.0% (Future)		N/A	
	100.0% (Exisitng)			
16 KTS	99.0%	98.4%	98.0%	98.6%
	99.8% (Future)		N/A	
	100.0% (Exisitng)			
20 KTS	99.9%	99.8%	99.6%	99.7%
	100.0% (Future)		N/A	
	100.0% (Exisitng)			

RUNWAY DATA TABLE

ITEM	4L		22R		4R		22L		9L(Future 9R)		27R(Future 27L)	
	Existing	Future	Existing	Future	Existing	Future	Existing	Future	Existing	Future	Existing	Future
Approach Visibility Minimums (RVR)	5000'	5000'	2400'	2400'	2400'	2400'	2400'	2400'	2400'	600'	1800'	600'
Runway Approach Category	NPI	NPI	CAT I	CAT I	CAT I	CAT I	CAT I	CAT I	CAT I	CAT II/III	CAT I	CAT II/III
Runway Length	7,520'	7,520'	7,520'	7,520'	8,091'	8,091'	8,091'	8,091'	7,974'	11,260'	7,974'	11,260'
Runway Width	150'	150'	150'	150'	150'	150'	150'	150'	150'	150'	150'	150'
Runway End Elevation (MSL)	655.8'	655.8'	647.7'	647.7'	661.2'	661.2'	654.4'	654.4'	659.6'	668.2'	650.0'	650.3'
Runway Threshold Elevation (MSL)	655.8'	655.8'	647.7'	647.7'	661.2'	661.2'	654.4'	654.4'	659.6'	668.2'	650.0'	650.3'
Runway Touchdown Zone Elevation (MSL)	658.7'	658.7'	651.3'	651.3'	661.2'	661.2'	654.4	654.4	659.6'	668.2'	653.7'	654.1'
Highest Point on Runway Centerline (MSL)	658.7'	658.7'	658.7'	658.7'	661.2'	661.2'	661.2'	661.2'	659.6'	668.2'	659.6'	668.2'
Lowest Point on Runway Centerline (MSL)	647.3	647.3	647.3'	647.3'	649.9'	649.9'	649.9'	649.9'	650.0'	650.3'	650.0'	650.3'
Displaced Threshold	None	None	None	None	None	None	None	None	None	None	None	None
Pavement Strength (x 1000 lb)	S-100 D-185 DT-350	S-100 D-185 DT-350	S-100 D-185 DT-350	S-100 D-185 DT-350	S-100 D-200 DT-350	S-100 D-200 DT-350	S-100 D-200 DT-350	S-100 D-200 DT-350	S-100 D-210 DT-350	S-100 D-210 DT-350	S-100 D-210 DT-350	S-100 D-210 DT-350
Runway Lighting	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL
Runway Marking	Precision	Precision	Precision	Precision	Precision	Precision	Precision	Precision	Precision	Precision	Precision	Precision
Surface Composition	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph
Surface Condition	Grooved	Grooved	Grooved	Grooved	Grooved	Grooved	Grooved	Grooved	Grooved	Grooved	Grooved	Grooved
Navigational Aids	LOC RNAV (GPS)	LOC RNAV (GPS)	ILS CAT-I RNAV (GPS) VOR	ILS CAT-I GPS	ILS CAT-I GPS	ILS CAT-I GPS	ILS CAT-I GPS	ILS CAT-I GPS	ILS CAT-I GPS	ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-I RNAV (GPS) NDB	ILS CAT-II/III (DME) RNAV (GPS)
Visual Aids	None	None	TDZL, PAPI MALSR	TDZL, PAPI MALSR	TDZL MALSR	TDZL MALSR	TDZL MALSR	TDZL MALSR	TDZL PAPI MALSR	TDZL, PAPI ALSF-II	TDZL PAPI MALSR	TDZL, PAPI ALSF-II
True Bearings	39° 29' 32.7"	39° 29' 32.7"	219° 30' 15.1"	219° 30' 15.1"	41° 29' 58.0"	41° 29' 58.0"	221° 30' 45.4"	221° 30' 45.4"	89° 58' 55.9"	89° 59' 24.0"	270° 00' 6.5"	270° 00' 3.7"
Runway End Coordinates Latitude (N)	41° 58' 53.8846"	41° 58' 53.8846"	41° 59' 51.2111"	41° 59' 51.2111"	41° 57' 11.8967"	41° 57' 11.8967"	41° 58' 11.7561"	41° 58' 11.7561"	41° 59' 02.0301"	41° 59' 02.0163"	41° 59' 02.0411"	41° 59' 02.0412"
Runway End Coordinates Longitude (W)	87° 54' 50.1887"	87° 54' 50.1887"	87° 53' 46.8491"	87° 53' 46.8491"	87° 53' 58.0017"	87° 53' 58.0017"	87° 52' 47.0305"	87° 52' 47.0305"	87° 55' 06.1590"	87° 55' 53.6471"	87° 53' 20.5826"	87° 53' 24.5549"
Runway End Coordinates (Illinois State Plane East) Northing	1936176.7214	1936176.7214	1942003.4221	1942003.4221	1925872.8359	1925872.8359	1931959.7402	1931959.7402	1936995.3590	1936976.8664	1937036.4720	1937034.9251
Runway End Coordinates (Illinois State Plane East) Easting	1098278.9825	1098278.9825	1103033.1236	1103033.1236	1102272.7048	1102272.7048	1107603.1464	1107603.1464	1097068.8246	1093482.3933	1105042.2396	1104742.2436
Critical Wingspan Aircraft Design Group	V	V	V	V	V	V	V	V	V	V	V	V
Critical Aircraft Approach Category	D	D	D	D	D	D	D	D	D	D	D	D
Declared Distances LDA	None	None	None	None	None	None	None	None	None	None	None	None
Declared Distances ASDA												
Declared Distances TORA												
Declared Distances TODA												

ITEM	9R(Future 10L)		27L(Future 28R)		14L		32R		14R		32L	
	Existing	Future	Existing	Future	Existing		Existing		Existing		Existing	
Approach Visibility Minimums (RVR)	1800'	600'	1800'	600'	600'	Future: Runway to be Closed	1800'	Future: Runway to be Closed	600'	Future: Runway to be Closed	1800'	Future: Runway to be Closed
Runway Approach Category	CAT I	CAT II/III	CAT I	CAT II/III	CAT II/III		CAT I		CAT II/III		CAT I	
Runway Length	10,147'	13,000'	10,147'	13,000'	10,028'		10,028'		13,021'		13,021'	
Runway Width	150'	150'	150'	150'	150'		150'		200'		200'	
Runway End Elevation (MSL)	665.8'	665.8'	651.3'	651.3'	652.6'		648.1'		665.5'		649.4'	
Runway Threshold Elevation (MSL)	665.8'	665.8'	651.3'	651.3'	652.6'		648.1'		665.5'		649.4'	
Runway Touchdown Zone Elevation (MSL)	665.8'	666.2'	651.3'	651.3'	652.6'		652.5'		667.7'		653.9'	
Highest Point on Runway Centerline (MSL)	665.8'	666.2'	665.8'	666.2'	652.7'		652.7'		667.7'		667.7'	
Lowest Point on Runway Centerline (MSL)	649.5'	649.5'	649.5'	649.5'	647.9		647.9'		649.4'		649.4'	
Displaced Threshold	None	None	None	None	None		None		None		None	
Pavement Strength (x 1000 lb)	S-100 D-185 DT-350	S-100 D-185 DT-350	S-100 D-185 DT-350	S-100 D-185 DT-350	S-100 D-185 DT-350		S-100 D-185 DT-350		S-100 D-185 DT-350		S-100 D-185 DT-350	
Runway Lighting	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL		HIRL CL		HIRL CL		HIRL CL	
Runway Marking	Precision	Precision	Precision	Precision	Precision		Precision		Precision		Precision	
Surface Composition	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph	Conc/Asph		Conc/Asph		Conc/Asph		Conc/Asph	
Surface Condition	Grooved	Grooved	Grooved	Grooved	Grooved		Grooved		Grooved		Grooved	
Navigational Aids	ILS CAT-I (DME), NDB RNAV (GPS)	ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-I (DME) RNAV (GPS)	ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-II/III (DME), NDB RNAV (GPS)		ILS CAT-I RNAV (GPS)		ILS CAT-II/III (DME), NDB RNAV (GPS)		ILS CAT-I (DME) RNAV (GPS)	
Visual Aids	TDZL PAPI MALSR	TDZL, PAPI ALSF-II	TDZL PAPI MALSR	TDZL, PAPI ALSF-II	TDZL, PAPI ALSF-II		TDZL MALSR		TDZL PAPI ALSF-II		TDZL MALSR	
True Bearings	89° 52' 11.0"	89° 51' 45.8"	269° 53' 40.8"	269° 53' 40.8"	139° 59' 29.2"		320° 00' 26.3"		139° 58' 5.9"		319° 59' 20.0"	
Runway End Coordinates Latitude (N)	41° 58' 08.4465"	41° 58' 08.3807"	41° 58' 08.6528"	41° 58' 08.6526"	42° 00' 08.8695"		41° 58' 52.9773"		41° 59' 25.6432"		41° 57' 47.1331"	
Runway End Coordinates Longitude (W)	87° 55' 15.7072"	87° 55' 53.4740"	87° 53' 01.3831"	87° 53' 01.3831"	87° 54' 55.4393"		87° 53' 30.0747"		87° 55' 59.3882"		87° 54' 08.5276"	
Runway End Coordinates (Illinois State Plane East) Northing	1931567.9790	1931547.7636	1931639.8784	1931639.8784	1943765.0180		1936115.2959		1939366.4299		1929435.5499	
Runway End Coordinates (Illinois State Plane East) Easting	1096373.8193	1093520.9312	1106520.6048	1106520.6048	1097845.3860		1104330.0994		1093037.6345		1101459.4439	
Critical Wingspan Aircraft Design Group	V	V	V	V	V		V		VI		VI	
Critical Aircraft Approach Category	D	D	D	D	D		D		D		D	
Declared Distances LDA	None	12,246'	None	13,000'	None		None		None		None	
Declared Distances ASDA		12,246'		13,000'								
Declared Distances TORA		13,000'		13,000'								
Declared Distances TODA		13,000'		13,000'								

ITEM	18		36		Future 9L	Future 27R	Future 9C	Future 27C	Future 10C	Future 28C	Future 10R	Future 28L
	Existing		Existing		Future	Future	Future	Future	Future	Future	Future	Future
Approach Visibility Minimums (RVR)	N/A	Future: Runway to be Closed	N/A	Future: Runway to be Closed	600'	600'	600'	600'	600'	600'	600'	600'
Runway Approach Category	Visual		Visual		CAT II/III	CAT II/III	CAT II/III	CAT II/III	CAT II/III	CAT II/III	CAT II/III	CAT II/III
Runway Length	5,341'		5,341'		7,500'	7,500'	11,245'	11,245'	10,800'	10,800'	7,500'	7,500'
Runway Width	150'		150'		150'	150'	200'	200'	200'	200'	150'	150'
Runway End Elevation (MSL)	646.0'		653.4		662.0'	660.5'	668.3'	652.4'	665.8'	650.0'	662.7'	658.0'
Runway Threshold Elevation (MSL)	646.0'		653.4		662.0'	660.5'	668.3'	652.4'	665.8'	650.0'	662.7'	658.0'
Runway Touchdown Zone Elevation (MSL)	651.2		653.8'		662.0'	660.5'	668.3'	652.4	665.8	651.1'	662.7'	659.9'
Highest Point on Runway Centerline (MSL)	653.8'		653.8'		662.0'	662.0'	668.3'	668.3'	665.8	665.8'	662.7	662.7'
Lowest Point on Runway Centerline (MSL)	646.0'		646.0		651.7'	651.7'	651.4'	651.4'	650.0'	650.0'	658.0'	658.0'
Displaced Threshold	None		None		None	None	None	None	None	None	None	None
Pavement Strength (x 1000 lb)	S-60 D-100 DT-150		S-60 D-100 DT-150		S-100 D-210 DT-350	S-100 D-210 DT-350	ADG VI (To be defined)	ADG VI (To be defined)	ADG VI (To be defined)	ADG VI (To be defined)	S-100 D-210 DT-350	S-100 D-210 DT-350
Runway Lighting	MIRL		MIRL		HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL	HIRL CL
Runway Marking	Visual		Visual		Precision	Precision	Precision	Precision	Precision	Precision	Precision	Precision
Surface Composition	Asphalt		Asphalt		Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Surface Condition	Ungrooved		Ungrooved		Grooved	Grooved	Grooved	Grooved	Grooved	Grooved	Grooved	Grooved
Navigational Aids	None		None		ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-II/III (DME) RNAV (GPS)	ILS CAT-II/III (DME) RNAV (GPS)
Visual Aids	None		None		TDZL ALSF-II	TDZL ALSF-II	TDZL, PAPI ALSF-II	TDZL, PAPI ALSF-II	TDZL, PAPI ALSF-II	TDZL PAPI ALSF-II	TDZL ALSF-II	TDZL ALSF-II
True Bearings	179° 59' 48.3"		359° 59' 48.3"		89° 59' 40.7"	270° 00' 47.2"	89° 58' 24.0"	270° 00' 03.6"	89° 51' 45.6"	269° 53' 21.2"	89° 51' 54.4"	269° 53' 0.8"
Runway End Coordinates Latitude (N)	41° 59' 50.693"		41° 58' 57.929"		42° 00' 10.1957"	42° 00' 10.1907"	41° 59' 17.8919"	41° 59' 17.9168"	41° 57' 56.5258"	41° 57' 56.7568"	41° 57' 25.9245"	41° 57' 26.0870"
Runway End Coordinates Longitude (W)	87° 54' 01.477"		87° 54' 01.473"		87° 55' 36.0329"	87° 53' 56.6968"	87° 55' 53.6570"	87° 53' 24.7531"	87° 55' 53.4360"	87° 53' 30.4755"	87° 55' 40.3004"	87° 54' 01.0354"
Runway End Coordinates (Illinois State Plane East) Northing	1941945.37		1938604.42		1943884.5021	1943920.8220	1938583.8451	1938641.8264	1930347.7938	1930424.3199	1927254.9119	1927308.0567
Runway End Coordinates (Illinois State Plane East) Easting	1101928.89		1101956.19		1094779.8994	1102279.8115	1093474.1073	1104718.9578	1093529.4341	1104329.1629	1094536.4115	1102036.2233
Critical Wingspan Aircraft Design Group	II		II		V	V	VI	VI	VI	VI	V	V
Critical Aircraft Approach Category	B		B		D	D	D	D	D	D	D	D
Declared Distances LDA	None		None		None	None	None	None	10,540'	10,800'	None	None
Declared Distances ASDA									10,540'	10,800'		
Declared Distances TORA									10,800'	10,800'		
Declared Distances TODA									10,800'	10,800'		

Note: (Geographic Coordinates are listed in NAD 83, NAVD 88, US Survey Feet)
(State Plane Coordinates are listed in Illinois East 1201, NAVD 88, US Survey Feet)

NATIONAL AIRSPACE SYSTEM EQUIPMENT PLATFORMS AND OTHER AIRPORT RELATED ABBREVIATIONS

TERM	ITEM
ADG	Airplane Design Group
ALSF-II	High Intensity Approach Lighting System with Sequenced Flashing Lights in ILS CAT-II
ASDE (-X)	Airport Surface Detection Equipment (Model X)
ASOS	Automated Surface Observation System
ASR-9	Airport Surveillance Radar - Model 9
CAT	Category
DME	Distance Measuring Equipment
GPS	Global Positioning System
HIRL - CL	High Intensity Runway Lights - Centerline Lights
ILS	Instrument Landing System
LAAS	Local Area Augmentation System
LLWAS	Low Level Wind Shear Alert System

TERM	ITEM
LOC	Localizer (ILS)
MALSR	Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights
MIRL	Medium Intensity Runway Lights
NDB	Nondirectional Beacon
NPI	Non-Precision Instrument
PAPI	Precision Approach Path Indicator
RNAV	Radio Navigation
SPA	Special Purposes Area
TDWR	Terminal Doppler Weather Radar
TDZL	Touchdown Zone Lighting
VOR/DME	Very High-Frequency (VHF) Omni-Directional Range / Distance Measuring Equipment

O'Hare International Airport

No	Revisions	Date

AIRPORT DATA SHEET