
CABAA VISUAL DEPARTURE CHICAGO EXECUTIVE AIRPORT

CABAA Visual- Fort Sheridan Transition RWY 16

After take-off start assigned turn from Chicago Executive ATCT within 1 NM from the departure end of RWY 16 and remain outside Chicago Class B Airspace. Proceed to Fort Sheridan-VFR waypoint **VPFTS**. When instructed, contact Departure to activate your IFR clearance. Maintain VFR until advised by Departure of activation of IFR clearance.

Climb and maintain VFR at or below 2000' or as assigned.

CABAA Visual- Bangs Lake Transition RWY 16

After take-off start assigned turn from Chicago Executive ATCT within 1 NM from the departure end of RWY 16 and remain outside Chicago Class B Airspace. Proceed to Bangs Lake Wauconda-VFR waypoint **VPBNG**. When instructed, contact Departure to activate your IFR clearance. Maintain VFR until advised by Departure of activation of IFR clearance.

Climb and maintain VFR at or below 2400' or as assigned.

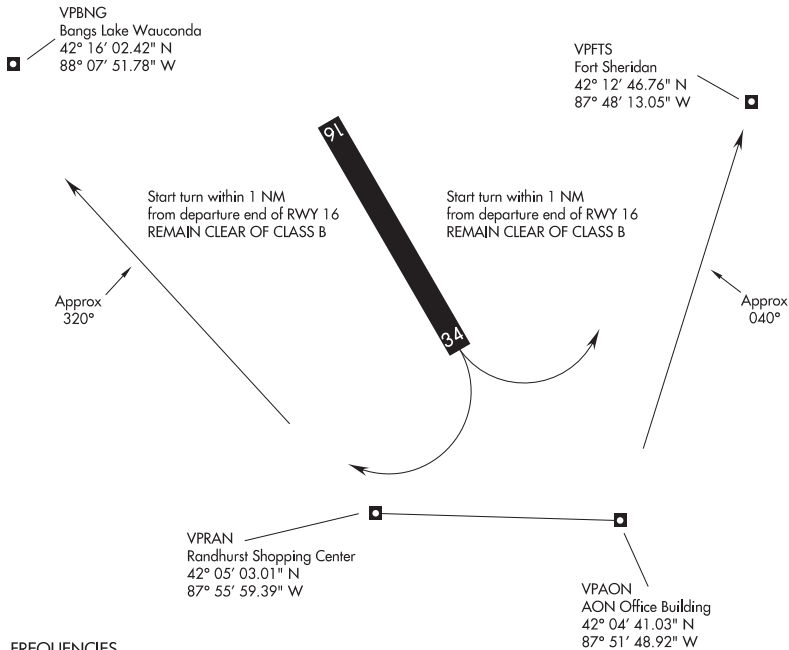
ALL AIRCRAFT REQUESTING THE "CABAA VISUAL DEPARTURE" MUST REMAIN CLEAR OF THE CLASS B AIRSPACE AT ALL TIMES.

TERMINAL AREA GRAPHIC NOTICE
 Not to be used for Navigation/Not to Scale

CABAA VISUAL DEPARTURE
 CHICAGO EXECUTIVE (PWK)

PILOTS MUST SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME

ALL AIRCRAFT
 REQUESTING THE "CABAA VISUAL DEPARTURE" MUST MAINTAIN VFR
 AND REMAIN CLEAR OF THE "CHICAGO CLASS B AIRSPACE" AT ALL TIMES



FREQUENCIES

- ATIS 124.2
- EXECUTIVE TOWER 119.9
- GND CON 121.7
- CLNC DEL 124.7
- CHICAGO DEPARTURE 120.55

WEATHER MINIMUMS
 3000 feet with 3 miles

LEGEND

→ Departure Route

CABAA VISUAL to FORT SHERIDAN Transition Rwy 16

After take-off proceed VFR to Fort Sheridan - VFR waypoint VPFTS. Maintain at or below 2000' or as assigned. Expect a climb clearance in vicinity of Fort Sheridan. ATC will advise activation of IFR Clearance.

CABAA VISUAL to BANGS LAKE Transition Rwy 16

After take-off proceed VFR to Bangs Lake Wauconda - VFR waypoint VPBNG. Maintain at or below 2400' or as assigned. Expect a climb clearance in vicinity of Bangs Lake. ATC will advise activation of IFR Clearance.

AEROBATIC PRACTICE AREAS IN ILLINOIS**Holmes Airstrip (3IS5), Springfield, IL**

Aerobatic flight activity will be conducted within an area defined as a 1.5 NM radius around N 39°40'48.6"/W 089°36'26.8", 1800-6600' MSL, 1300-0000Z± (0800-1900 local CDT).

Litchfield Municipal Airport (3LF), Litchfield, IL

Aerobatic practice will be conducted within 2 NM radius of Litchfield Municipal Airport (3LF), from 1,700 feet MSL to 4,200 feet MSL. The practice area is for waiver holders only. Pilots should use caution when opr within this area.

Blythe Field (LL27), Macomb, IL

Aerobatic practice will be conducted within 2 NM radius of Blythe Field (LL27), SFC to 4,100 feet MSL, SR-SS.

Springfield IL, Abraham Lincoln Capital Airport (SPI)

Aerobatic practice will be conducted within 1.5 NM radius of Springfield VOR SPI160010, from 2,100 feet MSL to 4,600 feet MSL, SR-SS.

AEROBATIC PRACTICE AREA**Norris Field (8I12), Richmond, IN**

Aerobatic Flight Activity will be conducted within 1 (one) NM radius of the Richmond (RID) DME 193R/6 DME. Flights will occur from 800' AGL to 3,500' AGL. Pilots should use caution when operating within this area. For further information, Contact Dayton APP CON at 1-937-454-7310 or freq. 134.45.

AEROBATIC PRACTICE AREA**Battle Creek Executive at Kellogg Field (BTL), Battle Creek, MI**

Aerobatic practice will be conducted within 5 NM quadrant South of W.K. Kellogg Airport (KBTL) arcing to the West/North West of BTL Airport from 3,500' MSL to 7,000' MSL.

LASER LIGHT RESEARCH**Urbana, IL**

Laser light research will be conducted at the University of Illinois, Urbana campus at Urbana, IL, N40°10'03"/W088°09'33". CMI VORTAC 036R/9NM. Nightly from local sunset to sunrise. Laser beam will be angled directly perpendicular to the horizon and projected up to 42,000 feet. Laser light may be injurious to eyes if viewed directly vertically. Flash blindness or cockpit illumination may occur beyond this distance.

COMMUNICATIONS ADVISORIES**Indianapolis ARTCC****NABB INDIANA AREA****New Hope, London, Lexington Kentucky Area**

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

CHICAGO, ILLINOIS**CHICAGO O'HARE DME**

DME unlocks can occur periodically due to ground station overload when more than 100 aircraft interrogations are received at the same time. The problem may occur when aircraft are being held in the Chicago (O'Hare) terminal area awaiting approach clearance at O'Hare. Possibilities of the problem occurring are reduced by users deactivating interrogators during non-use or switching to an ILS DME whenever possible. Deactivating interrogators on the ground is especially important since nearby aircraft cause more overload than distant ones.

NOISE ABATEMENT PROCEDURES**Covington, KY, Cincinnati/Northern Kentucky Intl Airport (CVG)**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area:	123.45 MHz
Caribbean area:	123.45 MHz
Pacific area:	123.45 MHz

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended landing.

An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

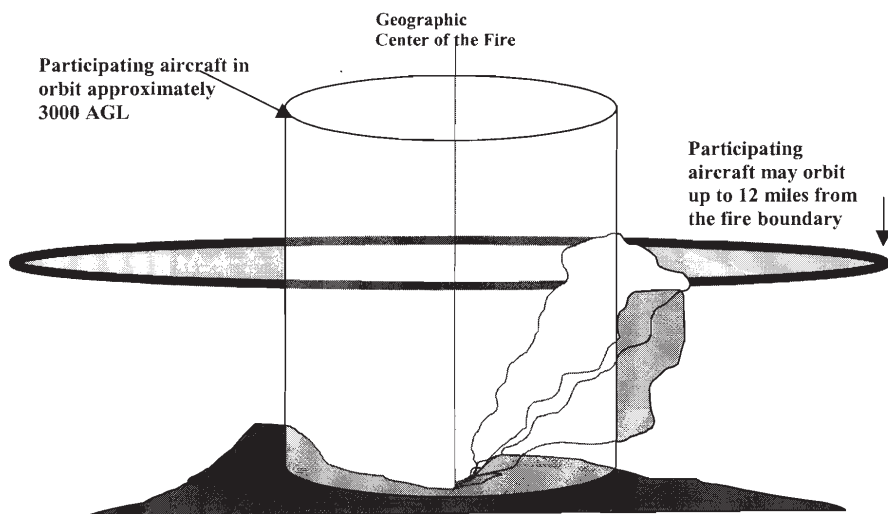
When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands and waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

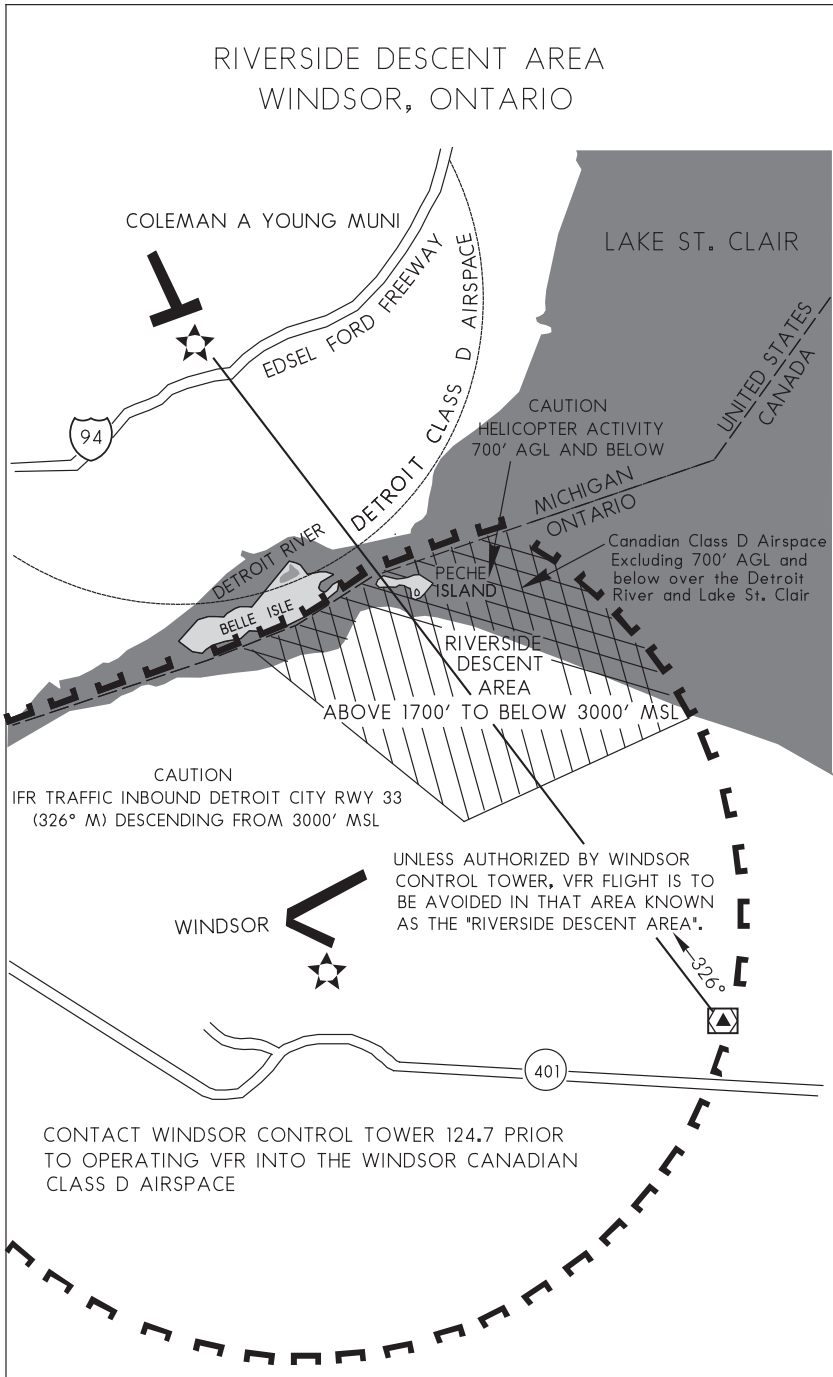
FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

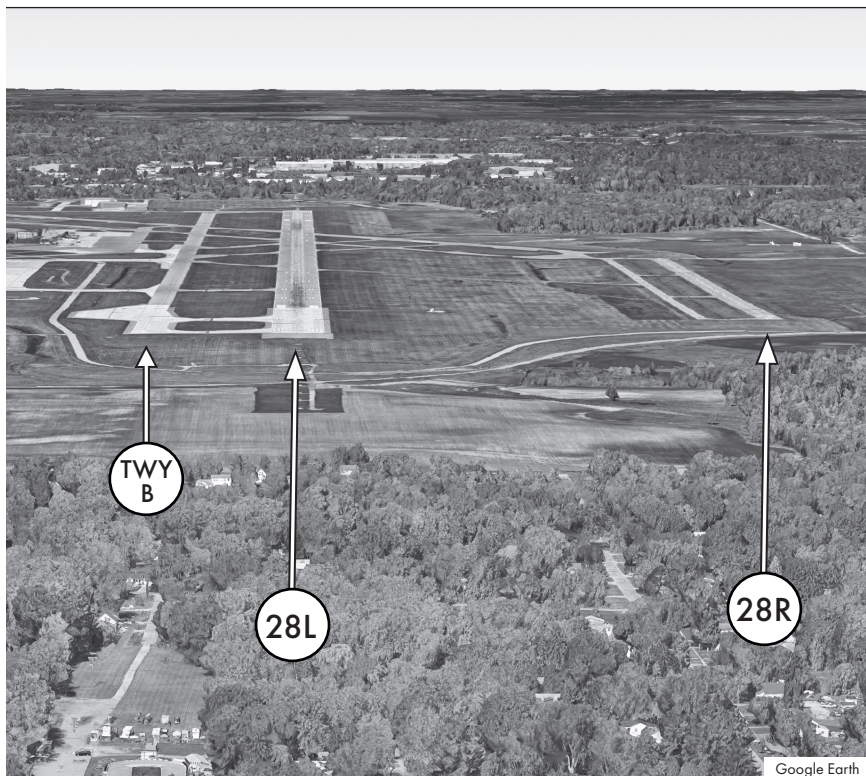
The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.



CAPITAL REGION INTERNATIONAL AIRPORT (LAN) ARRIVAL ALERT

Landing West RWY 28L and TWY B

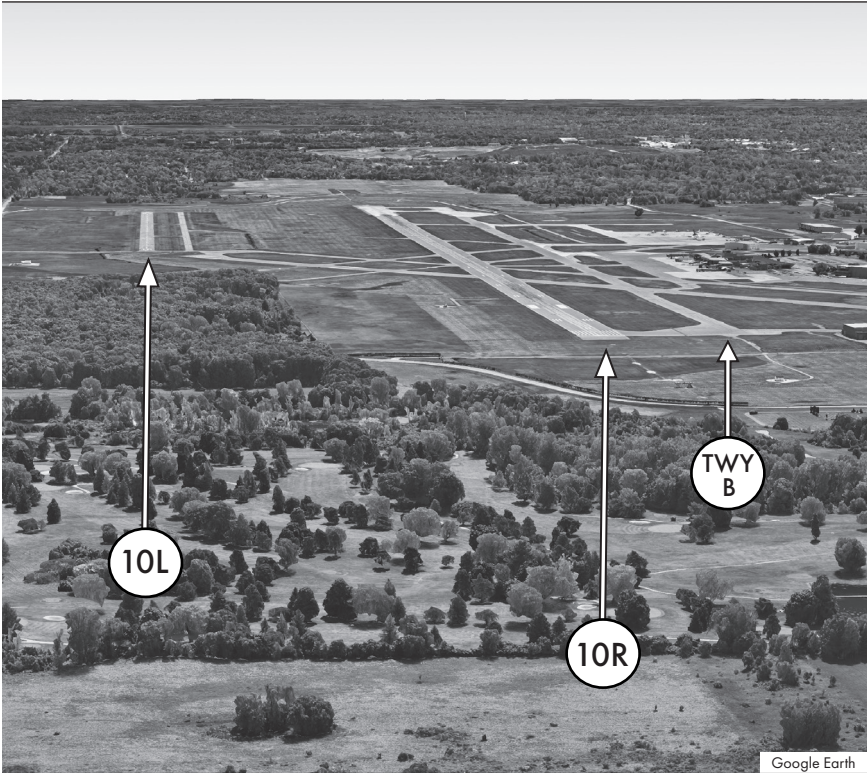


Pilots confuse TWY B for RWY 28L. TWY B is South (left) of RWY 28L and has a large runup area on the East end/RWY 28L approach end.

**Not for Navigational Purposes
For Situational Awareness Only**

CAPITAL REGION INTERNATIONAL AIRPORT (LAN) ARRIVAL ALERT

Landing East RWY 10R and TWY B



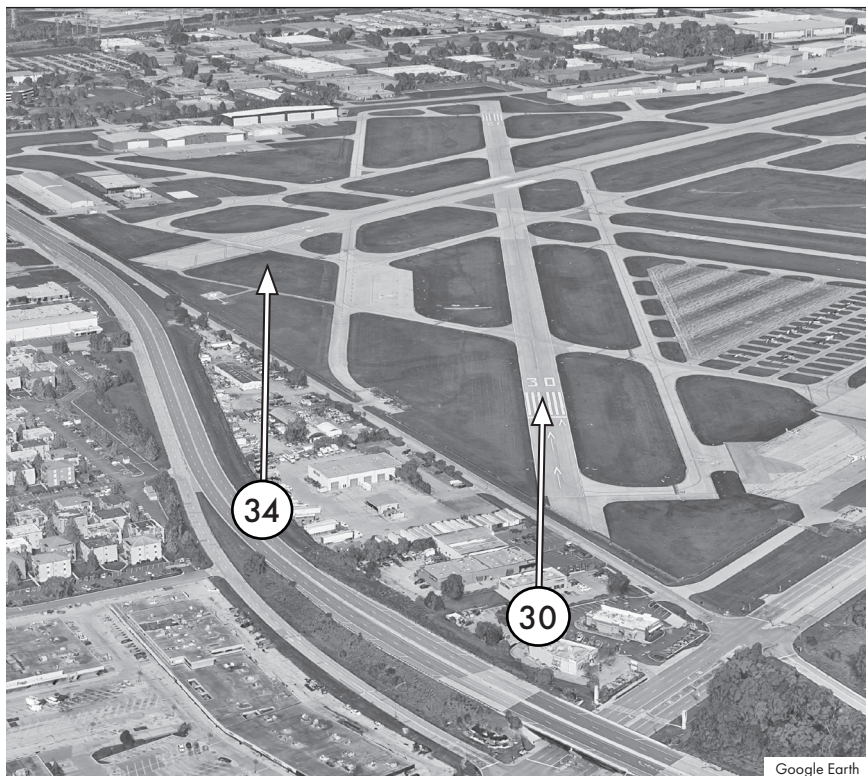
**Pilots sometimes confuse TWY B for
RWY 10R.**

**Not for Navigational Purposes
For Situational Awareness Only**

Office of Primary Responsibility (OPR): ATO, Runway Safety
Contact Information: (202) 856-1942
Original: January 2024

CHICAGO EXECUTIVE AIRPORT (PWK) ARRIVAL ALERT

Landing Northwest RWY 34 and RWY 30

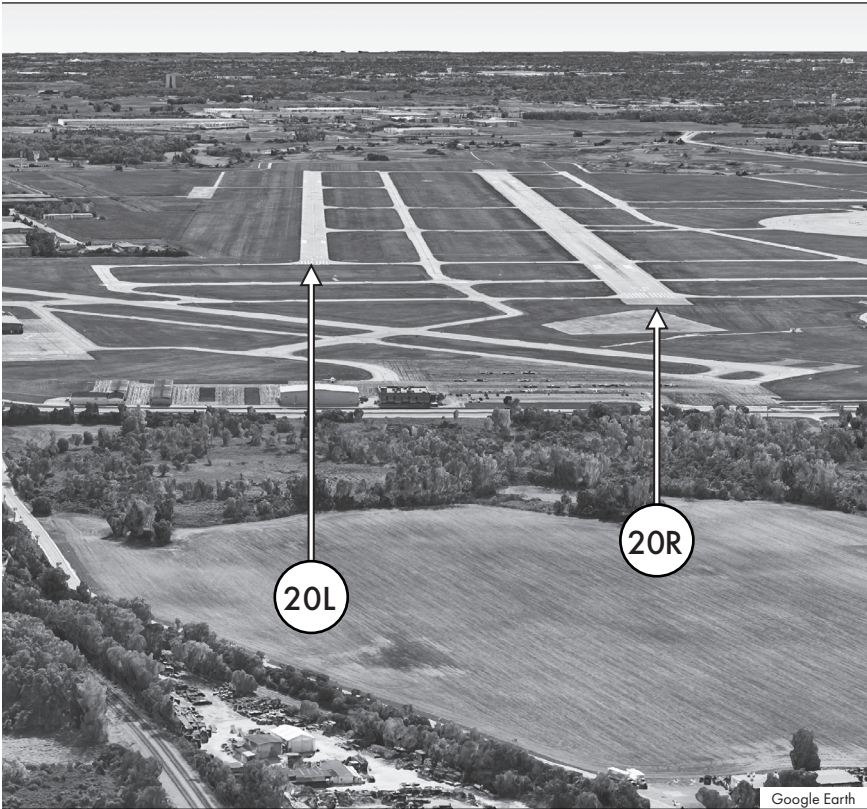


Use caution when circling East to land RWY 34 due to RWY 30 in close proximity. Ensure you are aligned with the correct runway and seek clarification from ATC if needed.

**Not for Navigational Purposes
For Situational Awareness Only**

DUPAGE AIRPORT (DPA) ARRIVAL ALERT

Landing Southwest RWY 20L and RWY 20R



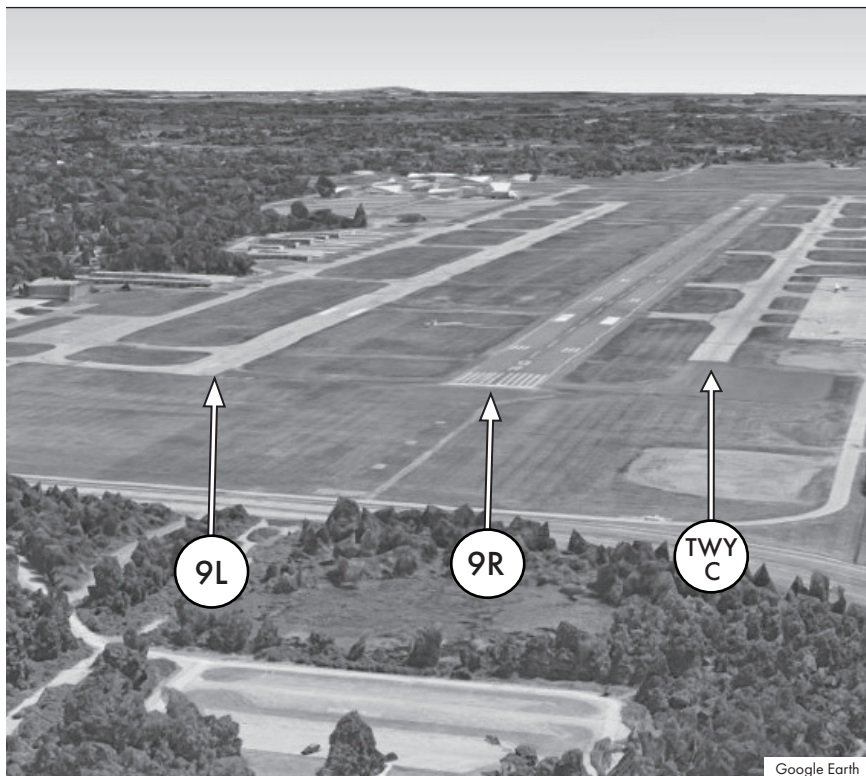
Off-set parallels. Pilots be aware that RWY 20L is 1120 feet farther down the approach than RWY 20R. Also, 20R is 50 feet wider than 20L.

**Not for Navigational Purposes
For Situational Awareness Only**

Office of Primary Responsibility (OPR): ATO, Runway Safety
Contact Information: (202) 856-1942
Original: January 2024

OAKLAND COUNTY INTERNATIONAL (PTK) ARRIVAL ALERT

Landing East RWY 9R and RWY 9L and TWY C

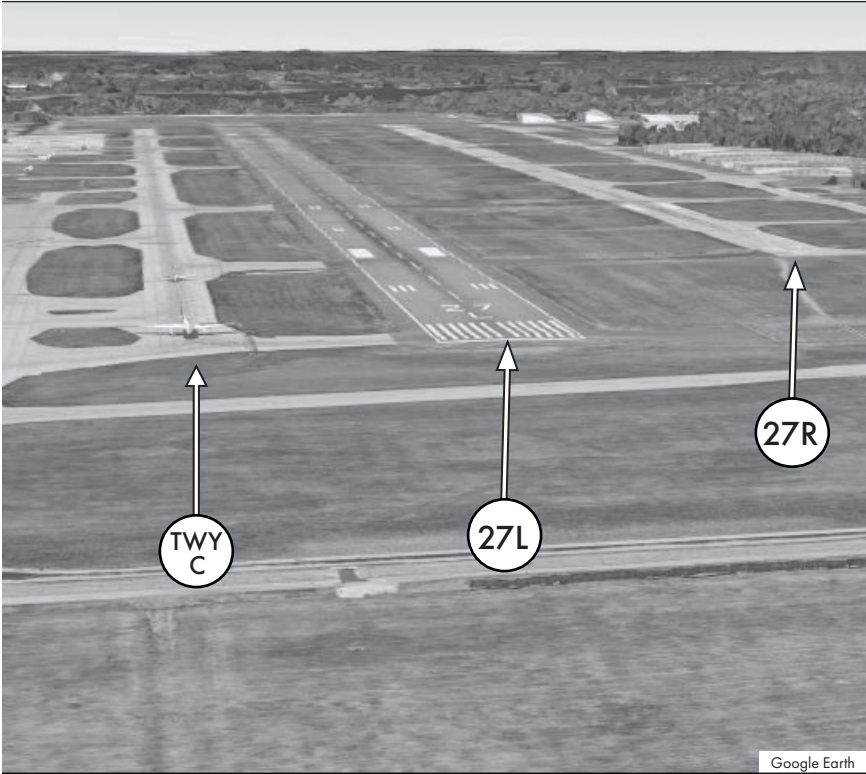


Closely spaced parallels. Pilots sometimes confuse the wider RWY 9R for RWY 9L, or TWY C for a runway.

**Not for Navigational Purposes
For Situational Awareness Only**

OAKLAND COUNTY INTERNATIONAL (PTK) ARRIVAL ALERT

Landing West RWY 27L and RWY 27R and TWY C



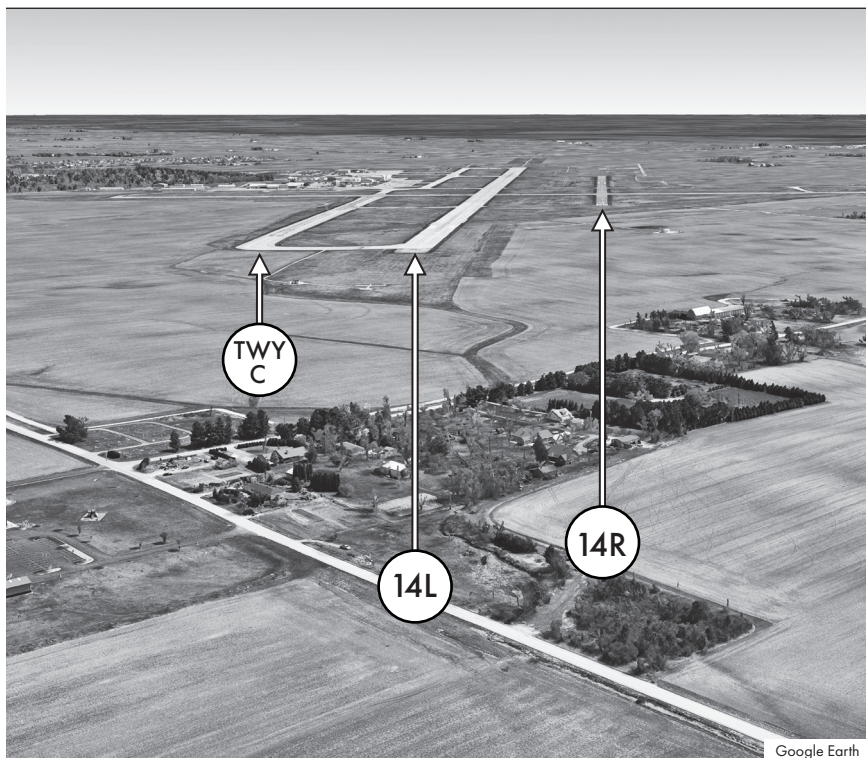
Off-set parallels. RWY 27R is 900 feet further down the approach than RWY 27L. Pilots sometimes confuse RWY 27L for RWY 27R, or TWY C for a runway.

**Not for Navigational Purposes
For Situational Awareness Only**

Office of Primary Responsibility (OPR): ATO, Runway Safety
Contact Information: (202) 856-1942
Original: January 2024

UNIVERSITY OF ILLINOIS/WILLARD AIRPORT (CMI) ARRIVAL ALERT

Landing Southeast RWY 14L and RWY 14R and TWY C

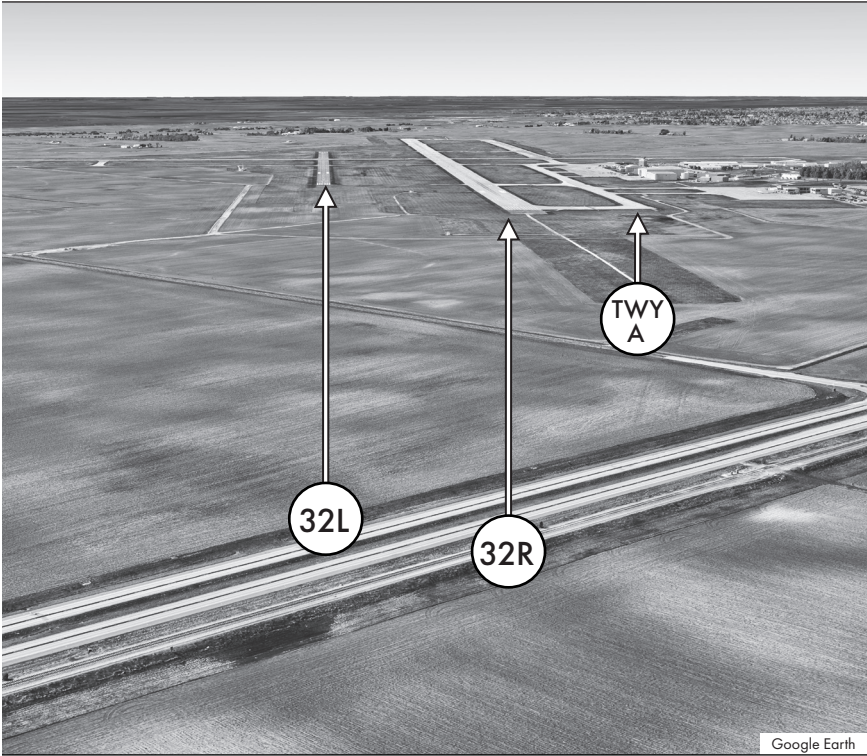


Pilots confuse TWY C and RWYS 14L/R.

**Not for Navigational Purposes
For Situational Awareness Only**

UNIVERSITY OF ILLINOIS/WILLARD AIRPORT (CMI) ARRIVAL ALERT

Landing Northwest RWY 32R and RWY 32L and TWY A



Pilots confuse TWY A and RWYS 32R/L.

**Not for Navigational Purposes
For Situational Awareness Only**

Office of Primary Responsibility (OPR): ATO, Runway Safety
Contact Information: (202) 856-1942
Original: January 2024

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

LORAIN (ELYRIA), OHIO

LORAIN COUNTY AIRPORT TRAFFIC RULE

Part 93, Subpart J, requires each person piloting an airplane landing at the Lorain County Rgnl Airport shall enter the traffic pattern north of the airport and shall execute a right traffic pattern for a landing to the southwest or a left traffic pattern for a landing to the northeast. Each person taking off from the airport shall execute departure turn to the north as soon as practicable after takeoff.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

FSS
TELEPHONE NUMBERS

Flight Service Station (FSS) facilities process flight plans and provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a contract provider at two large facilities. In Alaska, FSS services are delivered through a network of three hub facilities and 14 satellite facilities, some of which operate part-time and some are seasonal. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

Pilot Weather Briefings 1-800-WX-BRIEF (1-800-992-7433)

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

Medevac Flights Only 1-877-LIF-GRD3 (1-877-543-4733)

FLIGHT RESTRICTED ZONE FLIGHTS

Pilots wishing to fly within the Flight Restricted Zone (FRZ) must call the Washington ARTCC Flight Data Unit at 703-771-3476.

**FAA TELEPHONE NUMBERS AND NWS
KEY AIR TRAFFIC FACILITIES**

Air Traffic Control System Command Center

Main Number.....540-422-4100

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #	**CLEARANCE DELIVERY TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300	505-856-4561
Anchorage	907-271-5936	7:30 a.m.-4:00 p.m.	907-269-1137	
Atlanta	404-305-5180	7:30 a.m.-5:00 p.m.	770-210-7601	770-210-7692
Boston	404-305-5156	7:30 a.m.-4:00 p.m.	603-879-6633	603-879-6859
Chicago	817-222-5006	8:00 a.m.-4:00 p.m.	630-906-8221	630-906-8921
Cleveland	817-222-5006	8:00 a.m.-4:00 p.m.	440-774-0310	440-774-0490
Denver	206-231-2099	7:30 a.m.-4:00 p.m.	303-342-1600	303-651-4257
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7500	817-858-7584
Honolulu	310-725-3300	7:30 a.m.-4:00 p.m.	808-840-6100	808-840-6201
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300	281-230-5622
Indianapolis	817-222-5006	8:00 a.m.-4:00 p.m.	317-247-2231	317-247-2411
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501	904-845-1592
Kansas City	817-222-5006	7:30 a.m.-4:00 p.m.	913-254-8500	913-254-8508
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200	661-575-2079
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103	901-368-8453
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500	305-716-1731
Minneapolis	817-222-5006	8:00 a.m.-4:00 p.m.	651-463-5580	651-463-5588
New York	718-995-5426	8:00 a.m.-4:40 p.m.	631-468-1001	631-468-1425
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331	
Salt Lake City	206-231-2099	7:30 a.m.-4:00 p.m.	801-320-2500	801-320-2568
San Juan	404-305-5180	7:30 a.m.-5:00 p.m.	787-253-8663	787-253-8664
Seattle	206-231-2099	7:30 a.m.-4:00 p.m.	253-351-3500	253-351-3694
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401	703-771-3587

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

**For use when numbers or frequencies are not listed in the airport listing

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	678-364-6131	7:00 a.m.-3:30 p.m.	678-364-6000
Chicago	817-222-5006	8:00 a.m.-4:00 p.m.	847-608-5509
Dallas-Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m.-4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m.-3:30 p.m.	916-366-4001
Potomac	718-995-5426	8:00 a.m.-4:30 p.m.	540-349-7500
Southern CA	310-725-3300	7:30 a.m.-4:00 p.m.	858-537-5800

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

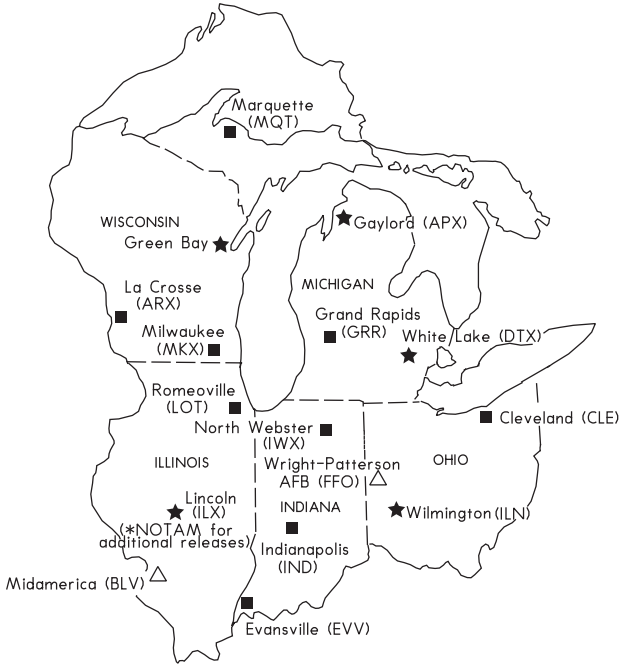
FAA TELEPHONE NUMBERS AND NWS KEY AIR TRAFFIC FACILITIES

DAILY NAS REPORTABLE AIRPORTS

AIRPORT NAME	*24 HR RGNDL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m.-5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m.-4:30 p.m.	301-735-2380
Baltimore/Washington Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m.-4:30 p.m.	410-962-3555
Boston Logan Intl, MA	404-305-5156	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	404-305-5156	7:30 a.m.-4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.-5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.-4:30 p.m.	704-344-6487
Chicago Midway, IL	817-222-5006	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	817-222-5006	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	817-222-5006	8:00 a.m.-4:00 p.m.	216-352-2000
Covington/Cincinnati, OH	817-222-5006	8:00 a.m.-4:30 p.m.	859-372-6440
Dallas-Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	817-222-5006	7:30 a.m.-4:00 p.m.	937-415-6800
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	817-222-5006	8:00 a.m.-4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m.-3:30 p.m.	305-356-7932
George Bush Intercontinental/Houston, TX	817-222-5006	7:30 a.m.-4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	678-364-6131	7:00 a.m.-3:30 p.m.	404-559-5800
Honolulu (Daniel K Inouye Intl), HI	310-725-3300	7:30 a.m.-4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.-5:00 p.m.	713-847-1400
Indianapolis Intl, IN	817-222-5006	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-725-3300	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	817-222-5006	7:30 a.m.-4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.-4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m.-4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	9:01-322-3350	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m.-4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	817-222-5006	8:00 a.m.-4:00 p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m.-3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	7:30 a.m.-4:00 p.m.	973-565-5000
Norman Y. Mineta San Jose Intl, CA	310-725-3300	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-725-3300	7:30 a.m.-4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.-5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-725-3300	7:30 a.m.-4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.-4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m.-4:30 p.m.	919-380-3125
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-0330
Salt Lake City, UT	425-227-1389	7:30 a.m.-4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m.-4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.-4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	650-876-2883
San Juan Intl, PR	404-305-5180	7:30 a.m.-5:00 p.m.	787-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	817-222-5006	7:30 a.m.-4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m.-4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.-4:30 p.m.	571-323-6375
West Palm Beach, FL	404-305-5180	8:00 a.m.-4:30 p.m.	561-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.-4:30 p.m.	914-948-6520

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

NATIONAL WEATHER SERVICE (NWS)
 UPPER AIR OBSERVING STATION (UAOS)
 AND
 WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION
 HYDROGEN FILLED BALLOON RELEASES AROUND
 1100 UTC AND 2300 UTC DAILY/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASES AROUND 1100 UTC
 AND 2300 UTC DAILY
- OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE
 TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE
 AND/OR EARLY AFTERNOON

NOTE: FOR RELEASES LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE OR NOTAM* WILL BE FILED.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

<p>® CHICAGO CENTER – 121.5 121.5 243.0 243.0</p> <p>Bradford – 132.225 125.625 124.55 121.5 121.5 323.225 307.125 281.525 243.0 243.0</p> <p>Burlington – 135.6 121.5 121.5 370.95</p> <p>Camp Douglas – 125.05 269.375</p> <p>Cedar Rapids – 132.8 328.4</p> <p>Chicago Heights – 132.95 318.8</p> <p>Crown Point – 134.875 290.25</p> <p>Danville – 135.75 353.95</p> <p>Des Moines – 127.05 282.35</p> <p>Des Plaines – 133.625 128.65 120.35 363.125 317.4</p> <p>Downers Grove – 279.525</p> <p>Dubuque – 133.95 127.775 125.225 327.15 281.4 263.1</p> <p>Fort Wayne – 126.325 119.85 323.05 307.375</p> <p>Freeport – 243.0 243.0</p> <p>Goshen – 135.9 127.55 314.0 307.175 243.0 243.0</p> <p>Grand Rapids – 128.4 126.125 319.1</p> <p>Hampshire – 134.2 291.75</p> <p>Horicon – 135.55 126.875 306.975 269.075 243.0 243.0</p> <p>Joliet – 135.15 323.3</p> <p>Jones – 127.625 126.475 125.975 120.225 353.625 273.6 269.35</p> <p>Kankakee – 132.5 121.5 121.5 120.125 118.225 353.55 284.7 256.8</p> <p>Lafayette – 123.85 121.5 121.5</p> <p>Leroy – 119.225 307.25</p> <p>Lone Rock – 133.3 257.925</p> <p>Maple Park – 134.825 307.275</p> <p>Marengo – 133.35 335.8</p> <p>Mazon – 123.75 259.1</p> <p>Milford – 121.275 351.95 243.0</p> <p>Milwaukee – 125.1 123.825 290.475 279.525</p> <p>Moline – 118.75 377.05</p> <p>Muskegon – 132.275 254.35</p> <p>Oshkosh – 132.1 319.25</p> <p>Ottumwa – 118.15 335.575</p> <p>Pontiac – 119.95 353.7</p> <p>Pullman – 133.2 128.5 343.675 273.525 273.525</p> <p>Rockford – 124.725</p> <p>Rossville – 125.375 120.975 370.85 350.35 350.35 341.7</p> <p>South Bend – 121.5 121.5</p> <p>Washington – 134.325 128.525 125.575 319.2 257.725 243.0 243.0</p> <p>Waukegan – 126.425 348.725</p>	<p>H-2-5-10, L-12-27-28, A-2(KZAU)</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------

® CLEVELAND CENTER – 121.5 121.5 243.0 243.0 H-2-5-10-11-12, L-27-28-29-30-31-32
(KZOB)

Algonac – 134.775 132.25 126.525 379.95 298.875 285.525 269.2 244.575

Altoona – 133.075 128.45 124.4 121.5 121.5 121.2 327.1 307.1 299.2 276.4 243.0 243.0

Belmont – 135.175 126.95 125.425 307.075 291.6 239.3

Bradford – 124.325 121.5 121.5 353.85 243.0 243.0

Carleton – 135.375 251.125 243.0 243.0

Chardon – 120.775 298.95

Dubois – 126.725 121.5 121.5 291.65 243.0 243.0

Dunkirk – 125.2 256.8

Findlay – 135.1 127.675 121.5 121.5 291.725 281.475 243.0 243.0

Flint – 126.75 348.75

Freeland – 133.875 127.7 369.9 290.425 269.525 243.0 243.0

Geneseo – 128.025 323.25

Holland – 120.625 118.625 316.05 306.9

Indianhead – 132.125 363.075

Litchfield – 135.725 134.65 133.525 120.45 360.7 285.625 281.425 263.025

Mansfield – 134.9 133.375 369.9 317.7 290.275 269.475 243.0 243.0

Moon Township – 134.475 121.075 385.5 369.25 317.45 307.325 254.275

Morgantown – 121.5 121.5 243.0 243.0

Mount Hope – 120.6 379.275 243.0 243.0

Sandusky – 132.45 127.9 119.875 119.325 371.95 348.675 284.625 269.625

Warren – 134.125 132.925 125.875 119.725 351.85 338.35 316.1 307.15

Waterford – 127.075 292.175

Waterville – 128.625 379.2

Wayland – 127.475 124.325 119.375 369.9 353.85 346.35 243.0 243.0 235.975

® INDIANAPOLIS CENTER – 121.5 121.5 243.0 243.0 CPDLC (LOGON KUSA) H-5-9-10-12, L-16-25-26-27-29
(KZID)

Athens – 135.425 125.075 379.975 353.525

Bible Grove – 257.95

Bluefield – 126.575 121.5 121.5 257.85 243.0 243.0

Brookville – 120.575 317.625

Catawba – 128.775 123.925 120.475 353.75 346.3 256.7

Charleston – 135.125 134.225 119.525 379.175 322.375 307.3

Columbus – 316.125

Evansville – 132.525 128.3 377.125 291.625

Henryville – 134.275 133.05 128.375 124.775 353.825 317.525 293.225 269.025

Hillsboro – 121.5 121.5

Huntingburg – 127.025 322.425

Indianapolis – 133.425 132.775 125.125 124.525 119.55 379.225 370.925 360.775 350.225 299.6
273.475

Livingston – 134.675 126.925 348.625 319.15

London – 243.0

London 2 – 124.625 121.5 121.5 371.925 243.0 243.0

Lynch – 126.575 257.85

Merwyn – 135.575 134.7 120.875 307.225 290.5 284.725

New Hope – 124.625 121.175 371.925 353.65

Parkersburg – 125.55 121.5 317.475 243.0 243.0

Portsmouth – 135.575 124.225 120.275 363.175 360.725 290.5

Rosewood – 135.8 128.075 288.3 282.375

Terre Haute – 134.175 132.2 317.425 310.8

Whitetop Mountain – 124.575 290.55

Winchester – 128.225 126.375 123.775 343.65 317.75 263.05

Zanesville – 133.775 132.825 124.45 121.5 121.5 363.025 360.675 323.275 243.0 243.0

CENTER REMARKS: CPDLC (LOGON KUSA)

® KANSAS CITY CENTER – 121.5 121.5 243.0 243.0 CPDLC (LOGON KUSA)	H-5-6, L-10-15-16-27, A-2 (KZKC)
Anthony – 133.2 121.5 121.5 118.35 292.125 285.625	
Butler – 125.55 327.0	
Chanute – 132.9 121.5 121.5 279.5	
Chillicothe – 125.25 235.975	
Clinton – 121.5 121.5	
Columbia – 134.5 121.5 121.5 119.475 316.1 279.6 243.0 243.0	
Decatur – 124.3 269.15	
Edna – 128.6 282.325	
Effingham – 135.05 124.3 290.4 269.15	
Emporia – 132.25 127.725 120.2 323.2 281.425 270.25	
Farmington – 132.65 127.475 120.825 346.275 319.0 307.8	
Gage – 132.825 126.95 121.5 121.5 379.2 243.0 243.0	
Garden City – 133.45 125.2 285.425 281.4 243.0 243.0	
Hutchinson – 134.3 118.8 353.9 322.425 273.6	
Independence – 121.65	
Jacksonville – 127.275 307.1	
Kansas City – 133.8 360.85	
Kirksville – 134.625 132.6 370.9 269.3	
Knob Noster – 135.575 323.15	
Lawrence – 121.825	
Liberal – 134.675 134.0 121.5 121.5 257.625 235.775	
Manhattan – 127.35 121.5 121.5 257.975	
Maples – 128.35 284.675	
Marion – 127.475 346.275	
Mount Vernon – 127.7 351.825	
Oklahoma City – 127.8 319.1	
Olathe – 121.5 121.5 243.0 243.0	
Ponca City – 127.8 121.5 121.5 319.1 243.0 243.0	
Quincy – 126.225 121.5 121.5 317.775	
Richland – 128.35 124.1 353.925 284.675	
Russell – 124.4 121.5 121.5 322.4	
Saint Charles – 125.9 327.1	
Saint Joseph – 127.9 251.1	
Saint Louis – 133.15 128.35 121.5 121.5 355.6 284.675 243.0 243.0	
Salina – 134.9 125.175 121.5 121.5 363.2 269.625	
Springfield – 133.475 127.5 277.4 269.4	
Springfield, II – 126.15	
Topeka – 123.8 343.7	
Tulsa – 128.8 127.625 354.1 285.525	
Vichy – 121.5 121.5	
CENTER REMARKS: CPDLC (LOGON KUSA)	

® MINNEAPOLIS CENTER – 121.5 121.5 243.0 243.0 CPDLC (LOGON KUSA) H–2–5–10–11,

L–10–12–13–14–27–28–31, A–1

Aberdeen – 121.5 **121.5** 120.6 371.9 243.0 **243.0** (KZMP)
 Alexandria – **133.4** 126.1 121.5 **121.5** **281.55** 269.2 243.0 **243.0**
 Alpena – **127.125** 125.475 121.5 **121.5** **323.075** 269.45
 Bellevue – 243.0 **243.0**
 Bemidji – 134.75 121.5 **121.5** 251.1
 Bismarck – 121.5 **121.5**
 Brainerd – 121.5 **121.5** 118.05 239.0
 Columbus – 121.5 **121.5** 243.0 **243.0**
 Darwin – 125.5 323.1
 Des Moines – **135.775** 125.65 **118.825** **372.0** 306.95 **257.875**
 Dickinson – 124.25 121.5 **121.5** 243.0 **243.0** 236.825
 Duluth – 134.55 **134.55** 127.9 290.5 **290.5** 281.45
 Dupree – 135.25 256.7
 Eau Claire – 134.3 **133.75** **127.425** 125.3 **350.2** 335.6 **292.2** 285.5 243.0 **243.0**
 Escanaba – 127.65
 Fairmont – **128.675** 127.75 **285.575** 257.7
 Fargo – **127.35** 278.3 **278.3**
 Farmington – 121.5 **121.5** 243.0 **243.0**
 Fort Dodge – 134.0 121.5 **121.5** 288.3 243.0 **243.0**
 Freeland – 125.825 317.45
 Grand Forks – **132.15** 121.5 **121.5** **269.6**
 Grand Island – 126.05 121.5 **121.5**
 Green Bay – 125.55 121.5 **121.5** 370.9 243.0 **243.0**
 Gwinn – 121.5 **121.5** 119.1 290.2 243.0 **243.0**
 Hancock – 133.55 121.5 **121.5** 379.1 **273.5** 243.0 **243.0**
 Hastings – **135.1** 119.4 **307.2** 278.8 **243.0**
 Hayward – 126.45 121.5 **121.5** 276.4
 Hibbing – 121.5 **121.5** 243.0 **243.0**
 Huron – **126.25** 121.5 **121.5** **339.8** 243.0 **243.0**
 International Falls – 120.9 **377.1**
 Iron Mountain – **133.45** 121.25 322.5
 Ironwood – 133.55
 Jamestown – 121.5 **121.5**
 La Crosse – 128.6 121.5 **121.5** **118.85** 363.0
 Lamoni – 121.5 **121.5**
 Lincoln – 121.5 **121.5** **119.525** **269.175**
 Mankato – 135.0 306.9
 Marysville – **134.225** 126.4 317.7 **282.3**
 Mason City – **134.25** 127.3 121.5 **121.5** **323.025** 257.675
 Minot – 127.6 **127.6** 121.5 **121.5** 279.6 **279.6**
 Mosinee – 124.4 121.5 **121.5** 317.7 243.0 **243.0**
 O'Neill – 128.0 **124.875** **353.75** 257.95
 Omaha – 128.75 **123.975** 119.6 346.3 290.4 **284.625**
 Oscoda – 125.475 269.45
 Pellston – 134.6 **132.425** 121.5 **121.5** 354.05 **336.4** 243.0 **243.0**
 Pierre – **128.425** 125.1 **120.05** **290.35** 284.65 269.1 243.0 **243.0**
 Princeton – 121.5 **121.5** 121.05 235.775
 Redwood Falls – **133.075** 127.1 121.5 **121.5** **119.875** 290.2 **269.25** **263.05**
 Rhinelander – 133.65 **123.725** 121.5 **121.5** **316.15** 281.5
 Rochester – 132.35 307.3
 Roseau – 134.75 251.1
 Sioux City – 125.025 **119.725** **363.1** 235.625
 Sioux Falls – 132.05 317.4
 Swinns Valley – **135.7** 134.85 352.0 **307.9**
 Traverse City – 132.9 **125.825** 121.5 **121.5** 338.3 **317.45** 243.0 **243.0**
 Watertown – 128.5 306.2
 White Cloud – **132.425** 120.85 **336.4** 322.35
 Woodworth – 135.25 **124.2** **270.3** 256.7 243.0 **243.0**
 CENTER REMARKS: CPDLC (LOGON KUSA)

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. 'T' indicates transmit only and 'R' indicates receive only. RCO's available at NAVAID's are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

CLEVELAND RADIO

CLEVELAND RCO 122.3
DRYER VOR/DME 113.6T 122.1R
FINDLAY RCO 122.4
MANSFIELD RCO 122.6
YOUNGSTOWN VORTAC 122.2
ZANESVILLE RCO 122.5

DAYTON RADIO

APPLETON VORTAC 116.7T 122.1R
ATHENS/ALBANY RCO 122.6
COLUMBUS RCO 122.2
DAYTON VOR/DME 114.5T 122.1R
GALLIPOLIS RCO 122.5
HILLSBORO RCO 122.2

GREEN BAY RADIO

ASHLAND RCO 122.4
BLACK RIVER FALLS RCO 122.5
CHIPPEWA RCO 122.6
DELLS VORTAC 117.0T 122.1R
EAU CLAIRE RCO 122.2
ESCANABA RCO 122.3
FOND DU LAC RCO 122.5
GREEN BAY RCO 122.2
HOUGHTON RCO 122.2
IRONWOOD VOR/DME 122.3
LA CROSSE RCO 122.6
LONE ROCK DME 122.3
MADISON VORTAC 122.6
MARSHFIELD RCO 122.5
MILWAUKEE RCO 122.6 (RCO UNUSABLE BYD 30 NM BLO 3000')
NEWBERRY RCO 122.4
OSHKOSH VORTAC 116.75T 122.1R 122.3
PHILLIPS RCO 122.2
RED WING RCO 122.6
RHINELANDER VOR/DME 115.05T 122.1R
RICE LAKE RCO 122.3
SAULT STE MARIE VOR/DME 112.2T 122.1R
SAWYER VOR/DME 122.5
SCHOOLCRAFT COUNTY RCO 122.5
ST IGNACE RCO 122.35
WAUSAU RCO 122.4
WISCONSIN RAPIDS RCO 122.45
WOODRUFF RCO 122.6

KANKAKEE RADIO

BRADFORD RCO 122.4
DUPAGE RCO 122.3
JOLIET VOR/DME 112.3T 122.1R
KANKAKEE DME 122.2
MACOMB RCO 122.2
MOLINE RCO 122.6
PEORIA RCO 122.5
ROCKFORD RCO 122.65

LANSING RADIO

ALPENA VORTAC 108.8T 122.1R
BAD AXE RCO 122.2
BATTLE CREEK RCO 122.2
BERRIEN SPRINGS RCO 122.4
CARLETON VOR/DME 115.7T 122.1R
DETROIT RCO 122.2
FLINT VORTAC 122.3
FREELAND RCO 122.4
GAYLORD RCO 122.4
GRAND RAPIDS RCO 122.3
JACKSON RCO 122.2
LANSING RCO 122.2
LUDINGTON RCO 122.3
MOUNT PLEASANT RCO 122.6
MUSKEGON RCO 122.5
PELLSTON RCO 122.2
SALEM VORTAC 122.4
TRAVERSE CITY RCO 122.2
WEST BRANCH RCO 122.3

SAINT LOUIS RADIO

ADDERS VORTAC 117.2T 122.1R
BIBLE GROVE VORTAC 109.0T 122.05R
CAPE GIRARDEAU DME 122.4
CENTRALIA VORTAC 115.0T 122.1R
CHAMPAIGN VORTAC 110.0T 122.1R
CHAMPAIGN/URBANA RCO 122.4
DECATUR RCO 122.3
FARMINGTON VORTAC 115.7T 122.1R 122.3
MALDEN RCO 122.6
MATTOON RCO 122.2
QUINCY RCO 122.5
SPINNER VORTAC 122.25
SPIRIT OF ST LOUIS RCO 122.2
ST LOUIS RCO 122.6

TERRE HAUTE RADIO

BRICKYARD VORTAC 122.4
CROWNPOINT RCO 122.3
FORT WAYNE RCO 122.5
KNOX DME 122.6
LAFAYETTE RCO 122.2
OSGOOD RCO 122.3
SHELBYVILLE VOR/DME 116.15T 122.1R
TERRE HAUTE RCO 122.2
WASHINGTON RCO 122.2

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

ILLINOIS

VOR RECEIVER CHECKPOINTS

Facility Name (Airport Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag.	Dist. from Fac. N.M.	Checkpoint Description
Champaign (University of Illinois-Willard)	110.0/CMI	G	332	0.9	On runup pad Rwy 14L.
Spinner (Abraham Lincoln Capital)	112.7/SPI	G	008	0.6	F ramp between Twy F and Twy E.

INDIANA

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Grisson (Grisson ARB)	108.45/GUS	G	036	1.1	Twy to Rwy 23
	108.45/GUS	G	239	0.9	Twy to Rwy 05.
Hoosier (Monroe County)	110.2/OOM	G	349	0.9	On runup pad Rwy 17.
Marion (Marion Muni)	108.6/MZZ	G	206	0.6	Twy A6 run up pad btn Rwy 04 & 22 and Twy A.
Muncie (Delaware Co Rgnl)	114.4/MIE	G	331	0.6	Twy A4 near AER 14.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Indianapolis (Indianapolis Intl)	109.6	G	

MICHIGAN

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Alpena (Alpena Co Rgnl)	108.8/APN	G	203	1.1	On runup for Rwy 01.
Flint (Bishop Intl)	116.9/FNT	G	170	0.9	Twy A S of Twy E.
Gaylord (Gaylord Rgnl)	109.2/GLR	G	077	0.6	SE corner of ramp.
Pellston (Pellston Rgnl Arpt of Emmet Co)	111.8/PLN	G	241	6.4	At int of Twy A & B.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Detroit (Coleman A Young Muni)	111.6	G	
Detroit (Detroit Metropolitan Wayne Co.)	109.8	G	
Detroit (Willow Run)	108.85	G	

OHIO

VOR RECEIVER CHECKPOINTS

Facility Name (Airport Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Chardon	112.7/CXR	A/2500	239	9.1	Over hangar NE corner of arpt.
Dryer (Loraine County Rgnl)	113.6/DJB	G	222	1.3	At intersection of taxiway and ramp.
Mansfield (Mansfield Lahm Rgnl)	108.8/MFD	G	134	4.7	Int of twy A & D.
Zanesville (Zanesville Muni)	114.95/ZZV	G	016	0.4	Twy A adj to ramp.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Akron Canton Rgnl	110.6	G	Ident is a series of dots.
Cincinnati Muni Arpt Lunken Field	108.4	G	
Cleveland Hopkins Intl	110.4	G	
Dayton (James M Cox Dayton Intl.)	111.0	G	

WISCONSIN

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Eau Claire (Chippewa Valley Rgnl)	113.65/EAU	G	182	2.1	Center of FBO ramp.
Green Bay (Green Bay-Austin Straubel Intl)	115.5/GRB	G	141	4.6	On Twy M at Rwy 18R apch end.
Madison (Dane Co. Rgnl-Truax Fld)	108.6/MSN	G	098	0.6	North edge of East ramp adj Twy J.
Oshkosh (Wittman Rgnl)	116.75/OSH	G	279	0.7	On taxiway at Rwy 09 apch end.
	116.75/OSH	G	173	0.7	On Taxiway A at A2 (abeam tower).
Rhineland (Rhineland--Oneida Co)	115.05/RHI	G	212	0.5	At intersection of Twys B and E.

The following tabulation lists all reported parachute jumping areas in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. NOTAM D's may be issued to advise users of specific dates and times if outside the times/altitudes that are published. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Parachute jumping areas within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact Flight Service, tower, or ARTCC.

Qualified parachute jumping areas will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jumping area is charted.

To qualify for charting, a jump area must meet the following criteria:

(1) Been in operation for at least 1 year.

(2) Log 1,000 or more jumps each year.

In addition, parachute jumping areas can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC OR GEOGRAPHIC COORDINATES	MAXIMUM ALTITUDE	REMARKS
ILLINOIS			
(c) Carmi Muni.....	19.7 NM; 298° Pocket City.....	9,500 AGL	3 NM radius. SR-SS weekends.
Deer Grove.....	34.8 NM; 090° Davenport.....	12,000 AGL	3 NM radius. SR-SS year round.
(c) Greenville Arpt.....	26.1 NM; 072° Troy.....	13,500	3 NM radius. Wkend & hol, SR-1 hr aft SS. Kansas City Center 124.3.
(c) Minier, Illinois Valley Parachute Club Arpt.....	25 NM; 122° Peoria.....	15,000	Daily SR to 1 hour after SS.
Ottawa.....	23.1 NM; 246° Joliet.....	17,900 AGL	4 NM radius. SR-1 hr past SS.
(c) Ottawa, Skydive Chicago Arpt .	26 NM; 246° Joliet.....	17,900	2.5 NM radius. SR to 1 hour past SS. Chicago Center 123.75.
(c) Rantoul National Aviation Center-Frank Elliott Fld.....	16.5 NM; 019° Champaign.....	13,500	2 NM radius. Daily 0600-2200.
(c) Rochelle Muni, Chicagoland Skydiving Center.....	32.7 NM; 269° Dupage.....	17,999	2.4 NM radius. Daily SR-SS. Chicago/Rockford Intl ATCT-TRACON (RFD) 121.0.
Sterling.....	16 NM; 206° Polo.....	12,000 AGL	10 NM radius. Year round SR-SS.
Tampico.....	34.6 NM; 095° Davenport.....	12,500	1 NM radius. Daily 1000-SS.
(c) Taylorville, Taylorville Muni....	24 NM; 138° Spinner.....	15,000	5 NM radius. SR-1 hr past SS.
INDIANA			
Angola.....	33 NM; 040° Webster Lake.....	14,500	Mon, Wed, Fri, Sat, Sun 0900-SS.
Atterbury.....	20 NM; 208° Shelbyville.....	1,500	0.5 NM radius. Occasional use.
Cloverdale.....	25 NM; 085° Terre Haute.....	12,500	5 NM radius. Daily SR-SS.
(c) Connersville.....	39.1NM; 241° Dayton.....	13,500	3 NM radius. Daily SR-SS.
Crawfordsville, Crawfordsville Rgnl	27.7 NM; 290° Brickyard.....	15,000	3 NM radius. Fri-Sat-Sun SR-SS.
(c) Flora, Flora Muni.....	22.4 NM; 272° Kokomo.....	13,000	5 NM radius. Weekends and holidays, Daily 0900-SS. Grissom App Con 121.05.
(c) Frankfort, Frankfort Muni.....	27.7 NM; 237° Kokomo.....	12,000 AGL	2 NM radius. Daily 0900-2000.
(c) Franklin, Franklin Flying Fld....	17 NM; 220° Shelbyville.....	13,500	3 NM radius. Daily SR-SS.
Hobart, Hobart Sky Ranch Arpt....	15 NM; 077° Chicago Heights....	10,000 AGL	2 NM radius. Wed, weekends 0800-SS.
Kingsbury.....	23 NM; 230° Gipper.....	1,500	0.3 NM radius. Occasional use. Military use.
Mentone.....	26 NM; 183° Goshen.....	12,500	3 NM radius. Daily SR-SS.
(c) Michigan City, Skydive Windy City Drop Zone.....	23 NM; 260° Gipper.....	15,000	5 NM radius. Daily SR-SS. South Bend Intl Twr 118.55.
Muncie, Horizon Fld Drop Zone....	10 NM; 360° Muncie.....	13,000	Daily 0600-1900. Parachute jumping 8 miles NE of Muncie.
Richmond, Richmond Muni.....	25.7 NM; 234° Dayton.....	14,500	3 NM radius. Daily SR-1 hour after SS.
Veedersburg, Songer Arpt.....	24 NM; 220° Boiler.....	10,000	5 NM radius. Weekends and holidays, SR-SS.

PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC OR GEOGRAPHIC COORDINATES	MAXIMUM ALTITUDE	REMARKS
MICHIGAN			
(c) Acme Township, Cherry Capital Arpt, Traverse TC Drop Zone	6.8 NM; 032° Traverse City.....	Unrestricted	2 NM radius. SR-SS. Parachute operations aprox 5.25 NM ENE of KTVC arpt. Typically from 14,500 FT can be higher. Minneapolis ARTCC 132.9.
(c) Allegan, Padgham Fld	13 NM; 072° Pullman	10,700	2 NM radius. Daily SR-SS.
Camp Grayling	17 NM; 160° Gaylord	1,500	0.5 NM radius. Apr-Nov, weekends plus annual training.
(c) Charlevoix Drop Zone	30 NM; 313° Gaylord	12,000	5 NM radius.
(c) Fowlerville, Maple Grove Arpt.	20 NM; 225° Flint.....	12,000	5 NM radius. Apr-Oct 0800-SS.
(c) Harbor Springs Arpt.....	17 NM; 235° Pellston.....	12,000	3 NM radius. May-Sep daily SR-SS.
(c) Midwest Freefall.....	35 NM; 56° Salem.....	17,999	3 NM radius. SR-SS, Apr 15 to Nov 1st. Selfridge ANG 119.6.
(c) Napoleon Arpt.....	37 NM; 285° Carleton	17,999	SR to SS Apr 1st to Nov 1st. 4 NM radius. KALAMAZOO/Battle Creek ATCT-TRACON (AZO) 127.3
(c) Saginaw, Saginaw Co H.W. Browne Arpt.....	11 NM; 125° Saginaw	12,000	2 NM radius. Apr-Nov daily SR-SS.
OHIO			
(c) Alliance, Barber Arpt.....	9 NM; 155° Akron.....	18,000	5 NM radius. Mon, Wed, Thur, Fri and weekends SR-SS. Akron-Canton Rgnl Twr 125.5.
(c) Ashland, Ashland Co Arpt.....	15 NM; 086° Mansfield	15,000	3 NM radius. Daily SR-SS. Cleveland-Hopkins Intl Tower 124.2.
Bellville	15 NM; 168° Mansfield	8,500	5 NM radius. SR-SS weekends.
Centerburg, Chapman Mem Fld Arpt	12 NM; 325° Appleton	12,000	Daily SR-SS.
(c) Circleville, Clark Dream Strip Drop Zone	13 NM; 332° Yellow Bud.....	17,500	2 NM radius. Wed 0600-Sun 2400. John Glenn Columbus Intl Tower 125.95.
Commercial Point.....	32 NM; 233° Appleton	10,000	0800-2100 Sat and Sun.
Findlay Arpt	9 NM; 355° Flag City.....	12,500 AGL	Daily.
(c) Garrettsville, Gates Arpt	11 NM; 172° Chardon	13,500 AGL	Daily SR-SS.
Grafton, Mole Arpt.....	10 NM; 139° Dryer	12,500	Daily 0700-0930.
Mansfield, Mansfield Drop Zone...	4 NM; 132° Mansfield	3,000	3 NM radius. Tue-Fri 0800-2200. Unit training assembles one weekend a month 0800-1630.
(c) Middletown Rgnl/Hook Fld Arpt	29.5 NM; 183° Dayton.....	13,500	3 NM radius.
(c) Petersburg Arpt	16 NM; 294° Ellwood City	12,500 AGL	2 NM radius. Mon-Fri 1700-SS, weekends SR-SS.
Stonelick Parachute Center Drop Zone	27 NM; 068° Cincinnati.....	10,000	Daily SR-SS.
Sycamore	25 NM; 285° Mansfield	12,500 AGL	1 NM radius. Daily SR-SS.
Van Wert, Van Wert Co Arpt	27.3 NM; 104° Fort Wayne.....	10,000	Weekdays 1600-SS, Weekends SR-SS.
Wauseon, Fulton Co Arpt	42.9; 338° Flag City.....	10,500	1 NM radius. Daily SR-SS.
(c) Xenia, Skydive Greene County Inc Arpt	32 NM; 129° Dayton.....	12,500 AGL	Daily SR-2400.

PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC OR GEOGRAPHIC COORDINATES	MAXIMUM ALTITUDE	REMARKS
WISCONSIN			
(c) Baldwin Arpt.....	43 NM; 098° Gopher	15,000 AGL	Daily SR-1 hour past SS.
(c) Beloit Arpt.....	7.1 NM; 117° Janesville.....	17,999	2.5 NM radius. SR-SS
(c) Bristol, Winfield Arpt.....	37.5 NM; 160° Badger.....	12,500 AGL	SR-1/2 hour past SS.
(c) Chippewa Falls, Wisconsin Arpt .	9 NM; 070° Eau Claire	15,000	5 NM radius. Daily SR-1 hour past SS.
(c) East Troy Muni Arpt	20 NM; 190° Badger.....	14,500 AGL	SR-1/2 hour past SS.
(c) Fort Atkinson Muni Arpt.....	25 NM; 247° Badger.....	14,000 AGL	3 NM radius. Daily SR-SS.
Lake Delton	3 NM; 332° Dells.....	12,500	Daily May 15-Sept 25.
(c) Marshall, Mathaire Fld Arpt.....	16 NM; 058° Madison.....	12,500 AGL	SR-1/2 hour past SS.
(c) Pulaski, Carter Arpt.....	5 NM; 350° Green Bay.....	12,000 AGL	Daily SR-SS.
(c) Shiocton Arpt.....	17 NM; 250° Green Bay.....	13,500	5 NM. Daily SR-SS.
(c) Sturtevant, Sylvania Arpt, Skydive Midwest Drop Zone.....	28.7 NM; 148° Badger.....	14,500	3 NM radius. Daily from SR-SS Apr 1 to Nov 1 and weekends noon to SS Nov 2 to Mar 31. General Mitchell Intl Twr 119.65.
(c) Superior, Richard I Bong Arpt .	8 NM; 143° Duluth	12,500 AGL	3 NM radius. Daily SR-1 hour past SS.

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

UNITED STATES

FACILITY NAME	CHART & PANEL
Cabaniss Fid NOLF, TX (NGW) Corpus App/Dep Con 125.4 307.9 Navy Cabaniss Tower 119.65 299.6 (Mon–Thu 1400–0500Z‡, Fri 1400–0100Z‡)	L–20H, 21A
Fentress NALF, VA (NFE) Oceana App/Dep Con 123.9 266.8	H–10I, 12I, L–35D
Fry, OH (ØOH8) Columbus App/Dep Con 118.425	L–27E
Gila Bend AF AUX, AZ (GXF) Luke App/Dep Con 125.45 263.125 (South) (Mon–Thu 1300–0530Z, Fri 1300–0130Z, clsd weekends and hol)	H–4J, L–5B
Glasgow Industrial, MT (Ø7MT) Salt Lake Center App/Dep Con 126.85 305.2	H–1E, 2G, L–13D
Joe Williams NOLF, MS (NJW) Meridian App/Dep Con 276.4 Bravo Tower 118.475 279.2 355.8 (Mon–Fri 1400–2330Z‡)	H–6J, L–18G
Oak Grove MCOLF, NC (13NC) Cherry Point App/Dep Con 119.35 377.175	L–35B
Shell AHP, AL (SXS) Cairns App/Dep Con 133.45 239.275 (24 hrs Tue–Sat, 1200–0500Z‡ Sun–Mon) other times ctc Jax Center App/Dep Con 134.3 322.55 Shell Tower 139.125 244.5 (1230–0600Z‡ Mon–Fri, exc hol)	L–22I
USAF Academy Bullseye Aux Airfield, CO (CO9Ø) ASOS 125.0	L–10F
Webster NOLF, MD (NUI) Patuxent App/Dep Con 121.0 250.3 Navy Webster Tower 127.0 358.0 (Mon–Fri, exc hol, other times on request, 1400–2200Z‡ or SS, whichever occurs first) For Clnc Del when NHK Apch is clsd ctc Potomac Apch at 866–640–4124	H–10I, 12I, L–34E, 36I
Whitehouse NOLF, FL (NEN) Jax Center App Con 127.775 377.075 Jax Center Dep Con 127.775 379.9 Whitehouse Tower 125.15 307.325 340.2 (Manned during scheduled operations only)	H–8H, L–21D, 24G
William P Gwinn, FL (Ø6FA) Palm Beach App/Dep Con 317.4 Gwinn Tower 120.4 279.25 (Mon–Fri 1300–2100Z‡) Gnd Con 121.65 279.25	H–8I, L–23C

CANADA

FACILITY NAME	CHART & PANEL
Abbotsford, BC (CYXX) ATIS 119.8 (1500–0700Z‡) Victoria Trml App/Dep Con 132.7 (Avbl on ground) Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500–0700Z‡) Gnd Con 121.8 MF 119.4 295.0 (0700–1500Z‡) (Shape irregular to 4500´)	H–1B, L–12F
Amos/Magny, QC (CYEY) Montreal Center App/Dep Con 125.9	H–11B
Atikokan Muni, ON (CYIB) MF 122.3 (5 NM to 4500´ No ground station)	L–14I
Barrie–Orillia (Lake Simcoe Rgnl), ON (CYLS) Toronto Center App/Dep Con 124.025	H–11B, L–31D
Bar River, ON (CPF2) Toronto Center App/Dep Con 132.65	L–31C
Bathurst, NB (CZBF) Moncton Center App/Dep Con 134.25 AWOS 127.925	L–32J
Boundary Bay, BC (CZBB) ATIS 125.5 (1500–0700Z‡) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (0700–1500Z‡ to 2000´. Vancouver Trml 125.2 above 2000´. Shape irregular to 2500´.)	H–1B, L–1E
Brampton, ON (CNC3) Toronto Trml App/Dep Con 119.3	L–31D
Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 MF 122.1 (5 NM to 4000´)	H–2H

CANADA

FACILITY NAME	CHART & PANEL
Brantford, ON (CYFD) Toronto Trml App/Dep Con 128.27	L-31D
Brockville Rgnl Tackaberry ON (CNL3) Montreal Center App/Dep Con 134.675	L-32G
Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') AUTO 122.975	L-32G
Burlington Executive, ON (CZBA) Toronto Center App/Dep Con 119.3 AUTO 122.55	L-31D
Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500')	H-1C
Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.30	H-10G, 11B, L-31D
Charlottetown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	H-11E, L-32J
Chatham-Kent, ON (CYCK) Cleveland Center App/Dep Con 132.25	H-10G, L-30G
Collingwood, ON (CNY3) Toronto Center App/Dep Con 124.02	H-11B, L-31D
Cornwall Rgnl, ON (CYCC) Boston Center App/Dep Con 135.25 377.1	L-32G
Cranbrook/Canadian Rockies Intl, BC (CYXC) Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-1C
Debert, NS (CCQ3) Halifax Trml App/Dep Con 119.2 AUTO 122.275	H-11E, L-32J
Digby, NS (CYID) Moncton Center App/Dep Con 123.9	L-32J
Downsview, ON (CZVD) Toronto Center App/Dep Con 133.4 MF 126.2 (1300-2300Z±, 3 NM to 1700')	H-11B, L-31E
Drummondville, QC (CSC3) Montreal Center App/Dep Con 132.35	L-32H
Earlton (Timiskaming Rgnl), ON (CYXR) MF 122.0 (5 NM to 3800')	H-11B
Elliot Lake Muni, ON (CYEL) Toronto Center App/Dep Con 135.4	L-31C
Fort Frances Muni, ON (CYAG) Minneapolis Center App/Dep Con 120.9	L-14H
Fredericton Intl, NB (CYFC) ATIS 127.55 (1045-0345Z±, OT AWOS) Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1045-0345Z±) Gnd Con 121.7 (1045-0345Z±) MF 119.0 (0345-1045Z±, 5 NM to 3500')	H-11E, L-32I
Goderich, ON (CYGD) Toronto Center App/Dep 135.3 266.3	H-11B, L-31D
Greenwood, NS (CYZX) ATIS 128.85 244.3 (1100-0000Z±) App/Dep Con 120.6 335.9 Tower 119.5 236.6 324.3 Gnd Con 133.75 289.4 Clnc Del 128.025 283.9	H-11E, L-32J
Grimsbey Air Park, ON (CNZ8) Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	L-31E
Halifax/Shearwater, NS (CYAW) ATIS 129.175 308.8 (Ltd hrs) App/Dep Con 119.2 MF Shearwater Advisory 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	H-11E, L-32J
Halifax/Stanfield Intl, NS (CYHZ) ATIS 121.0 Moncton Center App/Dep Con 135.3 Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95	H-11E, L-32J
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 119.7 Tower 125.0 Gnd Con 121.6	H-10H, 11B, L-11B
Kingston, ON (CYGK) ATIS 135.55 (1115-0400Z±) Montreal Center App/Dep Con 135.05 (0400-1115Z±) MF 122.5 (1115-0400Z± 5 NM to 3300')	H-11C, L-31E, 32F

SUPPLEMENTAL COMMUNICATION REFERENCE

437

CANADA

FACILITY NAME	CHART & PANEL
Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200-0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z‡) Gnd Con 121.8 MF 126.0 (0400-1200Z‡ 5 NM to 4000´) AWOS 125.1 (0400-1200Z‡)	H-11B, L-31D
Lachute, QC (CSE4) Montreal Center App Con 124.65 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5 AUTO 122.975	H-11C
Langley, BC (CYNJ) ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml App/Dep Con 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900´)	L-1E
Leamington, ON (CLM2) Detroit Approach App/Dep Con 134.3	L-30F
Lethbridge, AB (CYQL) ATIS 124.4 (1245-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000´)	H-1D
Lindsay, ON (CNF4) Toronto Center App/Dep 134.25	L-31E, L-32F
Liverpool/South Shore Rgnl, NS (CYAU) Moncton Center App/Dep Con 123.9	L-32J
London, ON (CYXU) ATIS 127.8 (1120-0345Z‡) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000´)	H-10G, 11B, L-30G, 31D
Manitowaning/Manitoulin East Muni, ON (CYEM) Toronto Center App/Dep 135.4 260.9	L-31C
Maniwaki, QC (CYMW) Montreal Center App/Dep Con 126.57	L-32G
Mascouche, QC (CSK3) MF 122.35 (5 NM to 2500´. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.)	L-32G
Medicine Hat, AB (CYXH) ATIS 124.875 (1245-0345Z) MF 122.2 (1245-0345Z 5 NM to 5400´)	H-1D
Midland/Huronion, ON (CYEE) Toronto Center App/Dep 124.025	L-31D
Miramichi, NB (CYCH) Moncton Center App/Dep Con 123.7	H-11E, L-32J
Moncton/Greater Moncton Intl, NB (CYQM) ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075	H-11E, L-32J
Mont-Laurier, QC (CSD4) Montreal Center App/Dep Con 126.57	L-32G
Montreal Intl (Mirabel), QC (CYMX) ATIS 125.7 Montreal Center App/ Dep Con 124.65 268.3 MF 119.1 (7 NM shape irregular to 2000´) (03-11Z (DT 02-10Z)) (emerg only 450-476-3141) VFR Advisory 134.15 GND 121.8 (11-03Z (DT 10-02Z)) TWR 119.1 (11-03Z (DT 10-02Z)) (emerg only 450-476-3141) GND Advisory 121.8 (03-11Z (DT 02-10Z)) (emerg only 450-476-3141) (PTC avbl)	H-11C, 12K, L-32G
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 126.9 132.85 268.3 Tower 119.3 119.9 124.3 (old port) 267.1 Gnd Con 121.0 (West) 121.9 (East) 275.8 Cinc Del 125.6 Apron 122.275 (West) 122.075 (East) Montreal Trml Dep Con 120.42 (SE-S-SW) 124.65 (W-NW-NE) 268.3 VFR Advisory 134.15	H-11C, 12K, L-32G

CANADA

FACILITY NAME	CHART & PANEL
Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct Mon-Fri 1045-0500Z†, Apr-Oct Sat-Sun 1045-0300Z†, Nov-Mar Mon-Fri 1045-0400Z†, Nov-Mar Sat-Sun 1045-0100Z†) Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (VFR Arr North) 121.3 (VFR Arr South and East) (Apr-Oct Mon-Fri 1045-0500Z†, Apr-Oct Sat-Sun 1045-0300Z†, Nov-Mar Mon-Fri 1045-0400Z†, Nov-Mar Sat-Sun 1045-0100Z†) Gnd Con 126.4 (Apr-Oct Mon-Fri 1045-0500Z†, Apr-Oct Sat-Sun 1045-0300Z†, Nov-Mar Mon-Fri 1045-0400Z†, Nov-Mar Sat-Sun 1045-0100Z†) MF 118.4 (Apr-Oct Tues-Sat 0500-1045Z†, Apr-Oct Sun-Mon 0300-1045Z†, Nov-Mar Tues-Sat 0400-1045Z†, Nov-Mar Sun-Mon 0100-1045Z†) 5 NM shape irregular to 2000' VFR Advisory 134.15 MIL 135.9 322.1 (438 Sqn Ops)	H-11C, L-32G
Muskoka, ON (CYQA) Timmins Radio App/Dep Con 122.3 MF 122.3 (5 NM to 3900')	H-11B, L-31D
Nanaimo, BC (CYCD) ATIS 128.425 (1-877-517-2847)(1400-0500Z) Victoria Trml App/Dep 120.8 121.075 252.3 MF 122.1 291.8 1330-0530Z† (5 NM to 2500') GND ADV 122.6 (1330-0530Z (DT 1230-0430Z)) (emerg only 250-245-4032) (PTC avbl)	H-1B, L-1E
North Bay, ON (CYVB) ATIS 124.9 (1130-0330Z†) Toronto Center App/Dep 127.25 MF 118.3 (1130-0330Z† 7 NM to 5000')	L-31E
Oshawa, ON (CYOO) ATIS 125.675 (1130-0330Z†) Toronto Trml App/Dep Con 133.4 Tower 120.1 (1130-0330Z†) Gnd Con 118.4 MF 120.1 (0330-1130Z† 5 NM to 3000')	L-31E
Ottawa/Carp, ON (CYRP) ATIS 121.15 Ottawa Trml App/Dep Con 127.7	L-31E, 32F
Ottawa/Gatineau, QC (CYND) Ottawa Trml App/Dep Con 127.7 128.175 MF 122.3 (5 NM shape irregular to 2500) VFR Advisory Ottawa Trml 127.7 GND ADV 122.6 1130-0215Z (DT 1030-0115Z) (emerg only 819-643-2961)	H-11C, L-32G
Ottawa/MacDonald-Cartier Intl, ON (CYOW) ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 (VFR South) 120.1 (VFR North) 118.8 341.3 Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175	L-11C
Owen Sound/Billy Bishop Rgnl, ON (CYOS) Toronto Center App/Dep 132.575 290.6	L-31D
Pelee Island, ON (CYPT) Cleveland Center App/Dep Con 126.35 360.0	L-30F
Pembroke, ON (CYTA) Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR)	H-11C, L-31E, 32F
Penticton, BC (CYYF) Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100) GND ADV 121.9 (emerg only 250-492-3001)	H-1B
Peterborough, ON (CYPQ) Toronto Center App/Dep 134.25 MF 123.0 (5 NM to 3600')	H-11B, L-31E, 32F
Pincher Creek, AB (CZPC) Edmonton Center App/Dep Con 132.75 265.2	H-1D
Pitt Meadows, BC (CYPK) ATIS 125.0 (1500-0700Z†) Vancouver Center App Con 128.6 (Outer) 352.7 Pitt Tower 126.3 (1500-0700Z†) Gnd Con 123.8 Vancouver Center Dep Con 132.3 (South) 363.8 MF 126.3 (0700-1500Z†) (3NM to 2500)	L-1E
Quebec/Jean Lesage Intl, QC (CYQB) ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 Tower 118.65 236.6 Gnd Con 121.9 250.0	H-11D, L-32H
Riviere Du Loup, QC (CYRI) Montreal Center App/Dep Con 125.1 299.6	H-11D
Rouyn Noranda, QC (CYUY) Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	H-11B

SUPPLEMENTAL COMMUNICATION REFERENCE

439

CANADA

FACILITY NAME	CHART & PANEL
Saint John, NB (CYSJ) Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400´)	H-11E, L-32J
Sarnia (Chris Hadfield), ON (CYZR) Toronto Center App/Dep Con 134.375	H-10G, 11B, L-30F
Sault Ste Marie, ON (CYAM) ATIS 133.05 (1130-0330Z‡) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1130-0330Z‡) Gnd Con 121.7 (1130-0330Z‡) MF 118.8 (0330-1130Z‡ 5 NM irregular shape to 3000´)	H-2K, L-31B
Sherbrooke, QC (CYSC) Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800´)	H-11D, L-32H
South Renfrew Muni, ON (CNP3) Montreal Center App/Dep 124.275	L-31E, 32F
Southport, MB (CYPG) ATIS 120.85 (Mon-Fri 1400-2300Z‡ except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z‡ except holidays) Gnd Con 121.7 275.8	H-2H
Springwater Barrie Airpark, ON (CNA3) Toronto Center App/Dep Con 124.025	L-31D
St. Catharines/Niagara District, ON (CYSN) ATIS 128.525 (1215-0200Z‡) Toronto Trml App/Dep Con 133.4 MF 123.25 (1215-0200Z‡ 5 NM to 3300´)	H-10H, 11B, L-31E
St. Frederic, QC (CSZ4) Montreal Center App/Dep Con 135.025 270.9	L-32H
St. Georges, QC (CYSG) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900´ ASL)	H-32H, L-11D
St. Jean, QC (CYJN) Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡) Gnd Con 121.7	L-32G
Sudbury, ON (CYSB) ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000´) Clnc Del 121.8 (PTC avbl)	H-31B, 10G, L-31D
Summerside, PE (CYSU) Moncton Center App/Dep Con 124.4 384.8	H-11E, L-32J
Thunder Bay, ON (CYQT) ATIS 128.8 Winnipeg Center App/Dep Con 132.125 Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 (1100-0400Z‡) App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000´)	H-2J, L-14J
Timmins/Victor M. Power, ON (CYTS) ATIS 124.95 Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000´)	H-11B
Toronto/Buttontville Muni, ON (CYKZ) Toronto Trml App/Dep Con 133.4 MF 124.8 (No gnd station. 5 NM shape irregular 2000 ASL)	L-31E
Toronto/Billy Bishop Toronto City Airport, ON (CYTZ) ATIS 133.6 (1130-0400Z‡) App/Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7 (1130-0400Z‡)	L-31E
Toronto/Lester B Pearson Intl, ON (CYYZ) ATIS 120.825 133.1 App Con 132.8 124.475 125.4 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 121.9 121.65 119.1 Clnc Del 121.3 (1200-0400Z‡) A-CDM Coordinator 122.875 (122.825) Apron Tow Coordinator 136.525	H-11B, L-31D
Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4	H-11C, L-31E, 32F
Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 or 122.35	H-11C, L-31E, 32F
Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 MF 122.35 (5 NM to 3200´)	H-11C, L-32H
Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000´)	H-11B

CANADA

FACILITY NAME	CHART & PANEL
Vancouver Intl, BC (CYVR) ATIS 124.6 App Con 128.6 128.17 (Outer) 133.1 134.225 (Inner) 352.7 Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4	H-1B, L-1E
Victoria Intl, BC (CYYJ) ATIS 118.8 (0800-1400Z‡) App Con 125.45 Dep Con 125.95 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z‡ OT etc Kamloops 119.7) Clnc Del 126.4 (1400-0800Z‡)	H-1B, L-1E
Victoriaville, QC (CSR3) Montreal Center App Con 132.35 AUTO 122.17 (bil)	L-32H
Waterville/Kings Co Muni, NS (CCW3) Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3	L-32J
Warton, ON (CYVV) Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700')	H-11B, L-31D
Windsor, ON (CYQG) ATIS 134.5 (1200-0300Z‡) Detroit App/Dep Con 118.95 132.35 134.3 284.0 Tower 124.7 (1200-0300Z‡) Gnd Con 121.7 (1200-0300Z‡) MF 124.7 (0300-1200Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3 AWOS 134.5 (0300-1200Z‡)	H-10G, L-8J
Yarmouth, NS (CYQI) Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I

MEXICO

FACILITY NAME	CHART & PANEL
Chihuahua Intl/General R Fierro Villalobos Intl (MMCU) ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4	L-6I
Ciudad Juarez Intl/Abraham Gonzalez Intl (MMCS/CJS) Juarez App Con 119.9 Juarez Tower 118.9	H-4L, L-6F
Del Norte Intl (MMAN) ATIS 127.55 (1300-0300Z‡) Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0	H-7B, L-20G
Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3	H-7A
Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400-0200Z‡) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H-4I, L-4J, 5A
Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Clnc Del 123.75 (1200-0400Z‡) Monterrey Info 122.45	H-7B, L-20G
Nuevo Laredo/Quetzalcoatl (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	H-7B, L-20G
Reynosa Intl/General Lucio Blanco Intl (MMRX) Reynosa App Con 127.2 Reynosa Tower 118.8	H-7B, L-20H
Salttilo Intl/Plan De Guadalupe Intl (MMIO/SLW) Salttilo App Con 127.4 Salttilo Tower 118.4	H-7B
Tijuana Intl/General Abelardo L Rodriguez Intl (MMTJ) ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Tijuana Clnc Del 122.35 Tijuana Info 132.1	H-4I, L-4H
Torreón Intl (MMTC) App Con 119.6 Tower 118.5 Info 122.3	H-7A

PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing preferred direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
5. Where more than one route is listed the routes have equal priority for use.
6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.
7. Intersection names are spelled out.
8. Navaid and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
9. Where two nav aids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
11. (90–170 incl) altitude flight level assignment in hundred of feet.
12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
13. All Preferred IFR Routes are in effect continuously unless otherwise noted.
14. Use current SIDs and STARs for flight planning.
15. For high altitude routes, the portion of the routes contained in brackets [] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
CHICAGO(MDW)		
DETROIT(DTW)	(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)LEWKE GIJ HOSSA HAYLL (RNAV)-STAR ... or (DME/DME/IRU PR GPS REQUIRED)(DTW SOUTH FLOW)LEWKE GIJ HOSSA VCTRZ (RNAV)-STAR ...	
PITTSBURGH(PIT)	LEWKE ZIINE OTENS ANEWA DJB ACO JESEY (RNAV)-STAR	
CHICAGO(ORD)		
DETROIT SATS(DET,ARB,PTK,YIP,CYQG)	(AOB 170; DME/DME/IRU OR GPS REQUIRED)DUFEE ELX HOSSA PETTE (RNAV)-STAR	
DETROIT(DTW)	(150-230 INC; DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)RAYNR BRMTN DNKA TAAZY PETTY DUUDA KKISS (RNAV)-STAR	1100-0300
	or (150-230 INC; DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)RAYNR BRMTN DNKA TAAZY PETTY DUUDA RKCTY (RNAV)-STAR	1100-0300
MUSKOGON(MKG)	PETTY	
PITTSBURGH(PIT)	MOBLE ADIME OTENS ANEWA DJB ACO JESEY (RNAV)-STAR	
SAGINAW(MBS)	PETTY MKG	
CHICAGO/ROCKFORD(RFD)		
SOUTH BEND(SBN)	GRIFT T265 KLROY	
DETROIT METRO(DTW,DET,YQG,PTK,YIP,ARB)		
MILWAUKEE(MKE)	(RNAV ONLY)MIGGY (RNAV)-DP GETCH LYSTR SUDDS	
PITTSBURGH(PIT)	(6000'-17000' INCL; RNAV ONLY)LIDDS (RNAV)-DP GRIVY CUTTA JESEY JESEY (RNAV)-STAR	1100-0300

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
MILWAUKEE(MKE)		
DETROIT SATS(DET,ARB,PTK,YIP,CYQG)	(DME/DME/IRU OR GPS REQUIRED)SQUIB WEBOR RRALF (RNAV)-STAR.....	
DETROIT(DTW).....	(60-170 INCL; DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)SQUIB DUUDA RKCTY (RNAV)-STAR or (60-170 INCL; DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)SQUIB DUUDA KKISS (RNAV)-STAR	
MOLINE(MLI)		
	(AOB 140)(DTW NORTH FLOW)SWAYD LECTR (RNAV)-STAR..... or (AOB 140)(DTW SOUTH FLOW)SWAYD HANBL (RNAV)-STAR.....	
MONTREAL(CYUL)		
NEW YORK(LGA).....	(PROPS, TURBOPROPS 250 KTS OR LESS)FAWNS BUGSY ALB NOBBI-STAR..... or FAWNS BUGSY ALB HAARP-STAR.....	
NEWARK(EWR).....	(80-170 INCL, 250 KTS OR LESS; PROPS, TURBOPROPS LESS THAN 250 KTS)FAWNS BUGSY HANAA ALB V489 COATE..... or (110-170 INCL, MORE THAN 250 KTS; 250 KTS OR GREATER)FAWNS BUGSY HANAA FLOSI (RNAV)-STAR	1100-0300 1100-0300
TETERBORO(TEB).....	FAWNS BUGSY HANAA ALB V489 COATE.....	
WHITE PLAINS(HPN).....	(250 KTS OR GREATER)FAWNS BUGSY ALB VALRE-STAR..... or (PROPS, TURBOPROPS 250 KTS OR LESS)FAWNS BUGSY ALB NOBBI-STAR.....	
PEORIA(PIA)		
CHICAGO(MDW).....	PIA PIA056 MOTIF JOT.....	
CHICAGO(ORD).....	PIA PIA035 V10 PLANO.....	
SPRINGFIELD(SPI)		
CHICAGO(MDW).....	PNT MOTIF-STAR.....	
CHICAGO(ORD).....	PNT TRTLL (RNAV)-STAR.....	

HIGH ALTITUDE

Terminals	Route	Effective Times (UTC)
AKRON(CAK)		
CHARLOTTE(CLT).....	CTW JPU HVQ LNDIZ PARQR (RNAV)-STAR.....	
CHICAGO(ORD).....	(ADVANCED RNAV)MFD092 MFD WEEVR Q62 WATSN WATSN (RNAV)-STAR.....	
ALTON/ST LOUIS(ALN)		
CHICAGO(MDW).....	(TURBOJET)SPI POOGY ENDEE (RNAV)-STAR..... or (TURBOJET)SPI MOTIF-STAR.....	
CHICAGO(ORD).....	(TURBOJET)LEBOY CASHN TRTLL (RNAV)-STAR.... or (TURBOJET)LEBOY BDF BRADFORD-STAR..... or (TURBOJET)LEBOY CASHN SHAIN (RNAV)-STAR....	
BELLEVILLE(BLV)		
	(TURBOJET)LEBOY CASHN TRTLL (RNAV)-STAR.... or (TURBOJET)LEBOY BDF BRADFORD-STAR..... or (TURBOJET)LEBOY CASHN SHAIN (RNAV)-STAR....	
BLOOMINGTON/NORMAL(BMI)		
DETROIT(DTW).....	(LANDING NORTH)BMI SWAYD LECTR (RNAV)-STAR or (LANDING SOUTH)BMI SWAYD HANBL (RNAV)-STAR	

Terminals

CAHOKIA/ST LOUIS(CPS)

CHICAGO(MDW).....

Route

(TURBOJET)SPI MOTIF-STAR.....

or

(TURBOJET)SPI POOGY ENDEE (RNAV)-STAR.....

CHICAGO(ORD).....

(TURBOJET)LEBOY CASHN TRTLL (RNAV)-STAR

or

(TURBOJET)LEBOY CASHN SHAIN (RNAV)-STAR

CHICAGO SATS(PWK,UGN,CB1,10C,3CK)

DETROIT(DTW).....

(DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)RAYNR BRTMN DNKA TAAZ PETTY PORZL RKCTY (RNAV)-STAR

or

(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)RAYNR BRTMN DNKA TAAZ PETTY PORZL KKISS (RNAV)-STAR

CHICAGO(MDW)

ALBANY(ALB).....

LEWKE GIJ EVOTE NELLS KEEHO JHW Q82 LOXXE

ALLETOWN(ABE).....

LEWKE GIJ J146 FJC

ATLANTA(ATL).....

(TURBOJETS – RNAV ONLY)CMSKY CARYN CYBIL PVX BNA NEWBB IHAVE MTHEW CHPPR (RNAV)-STAR

AUSTIN(AUS).....

ACITO ADELL ARLYN STL FSM BROBB WINDU SEWZY (RNAV)-STAR

BALTIMORE(BWI).....

LEWKE GIJ OTENS ANEWA JERRI NUSMM ANTHM (RNAV)-STAR.....

BIRMINGHAM(BHM).....

CMSKY CARYN CYBIL PVX NULLS

BOCA RATON(BCT).....

DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 ZPLEN VUUDU (RNAV)-STAR.....

BOSTON(BOS).....

LEWKE GIJ EVOTE NELLS KEEHO JHW Q82 PONCT JFUND (RNAV)-STAR.....

BRISTOL/JOHNSON/KINGSPORT(TRI) ..

EARND ELANR EMMLY ETAME EMEGE FLM

BUFFALO(BUF).....

LEWKE GIJ EVOTE NELLS KEEHO DKK

CHARLESTON(CHS).....

EARND ELANR EMMLY ETAME EMEGE FLM SPA DEFFN OSPRI (RNAV)-STAR.....

CHARLESTON(CRW).....

EARND ELANR EMMLY ETAME EMEGE FLM

CHARLOTTE(CLT).....

EARND ELANR EMMLY ERECO IIU SKYWA FILPZ (RNAV)-STAR

CHATTANOOGA(CHA).....

DENNT DARCY DREGS DONVE BWG.....

CLEVELAND

(RNAV TURBOJET)LEWKE ZIINE BENJO BRWNZ

METRO(CLE, CGF, BKL, LNN, LPR)

(RNAV)-STAR.....

COLUMBUS(CMH).....

LEWKE GIJ SEWTO FWA BRYEN DUBLN (RNAV)-STAR

COVINGTON(CVG).....

(RNAV)EARND ELANR CEGRM (RNAV)-STAR.....

or

(NON-RNAV)EON V399 VHP SHELBYVILLE-STAR ...

DALLAS-FORT WORTH(DFW).....

(TURBOJET)(DFW NORTH FLOW)ACITO ADELL ARLYN STL RZC FSM RRNET BRDJE (RNAV)-STAR.....

or

(TURBOJET)(DFW SOUTH FLOW)ACITO ADELL ARLYN

DAYTON(DAY).....

STL RZC FSM RRNET SEEVR (RNAV)-STAR.....

DENVER(DEN).....

LEWKE GIJ SEWTO FWA V277 ROD

DETROIT(DTW).....

PEKUE OBENE OGALE OBH BRWRWY LAWGR (RNAV)-STAR

(DME/DME/IRU OR GPS REQUIRED)(LANDING SOUTH)RAYNR BRTMN DNKA TAAZ PETTY PORZL RKCTY (RNAV)-STAR

or

(DME/DME/IRU OR GPS REQUIRED)(LANDING NORTH)RAYNR BRTMN DNKA TAAZ PETTY PORZL KKISS (RNAV)-STAR

or

(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)LEWKE GIJ HOSSA HAYLL (RNAV)-STAR...

or

(DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)LEWKE GIJ HOSSA VCTRZ (RNAV)-STAR...

EVANSVILLE(EVV).....

DENNT DARCY DREGS DONVE

FORT LAUDERDALE(FLL).....

DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 ZPLEN TEEKY (RNAV)-STAR.....

FORT MYERS(RSW).....

CMSKY CARYN CYBIL PVX HITMN Q19 BULZI Q81 NICKI PLYER TYNEE (RNAV)-STAR

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
GREENSBORO(GSO).....	(DME/DME/IRU OR GPS)EARND ELANR EMMLY ETAME FLM TRAKS (RNAV)-STAR	
GREER(GSP).....	EARND ELANR EMMLY ERECO IIU DAIPI RCTOR (RNAV)-STAR.....	
HOUSTON(HOU).....	(TURBOJETS – DME/DME/IRU OR GPS)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB WAPPL (RNAV)-STAR	
HOUSTON(IAH).....	(TURBOJETS, TURBOPROPS)(IAH FLOW WEST)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB ZEEKK (RNAV)-STAR..... or (TURBOJETS, TURBOPROPS)(IAH EAST FLOW)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB GESNR (RNAV)-STAR.....	
HUNTSVILLE(HSV).....	DENNT DARCY DREGS DONVE BWG.....	
INDIANAPOLIS(IND).....	EARND ELANR EMMLY JAKKS JAKKS (RNAV)-STAR	
JACKSONVILLE(JAX).....	(TURBOJETS ONLY; DME/DME/IRU OR GPS REQUIRED)DENNT DARCY DREGS DUMGE SCOTO SWAPP THRSR DUCHY OHDEA (RNAV)-STAR.....	
KNOXVILLE(TYS).....	EARND ELANR EMMLY ETAME EMEGE FLM J43 VXV (DME/DME/IRU OR GNSS REQUIRED)LEWKE GIJ EVOTE NELLS KEEHO JHW Q82 PONCT ROZZE (RNAV)-STAR	1100-0300
MANCHESTER(MHT).....	(RNAV ONLY)CMSKY CARYN CYBIL PXV BLUZZ (RNAV)-STAR..... or (RNAV ONLY)BACEN BLOKR BEKKI FAM WHOLL BRBBQ (RNAV)-STAR.....	
MIAMI(MIA).....	CMSKY CARYN CYBIL PXV HITMN ACORI FROGZ (RNAV)-STAR.....	
MINNEAPOLIS(MSP).....	(TURBOJETS)PMPKN NEATO DLLAN RONIC KAMMA KKILR (RNAV)-STAR.....	1000-0300
MSY,NEW,NBG.....	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB TRSSH (RNAV)-STAR.....	
NASHVILLE(BNA).....	CMSKY CARYN CYBIL PXV GUMMA RYYMN (RNAV)-STAR.....	
NEW YORK(ISP).....	LEWKE GIJ EVOTE NELLS KEEHO JHW J70 STW LENDY	
NEW YORK(LGA).....	LEWKE GIJ J146 ETG MILTON-STAR	
NEWARK(EWR).....	LEWKE GIJ EVOTE NELLS KEEHO J584 SLT FQM WILLIAMSPORT-STAR	
NORFOLK(ORF).....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR	
ORLANDO(MCO).....	DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSR ZJAYX GRNCH (RNAV)-STAR	
ORLANDO(ORL).....	DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSR ZPLEN MJKAL JAFAR (RNAV)-STAR	
PHILADELPHIA(PHL).....	LEWKE GIJ J146 CXR EWC JST BOJID (RNAV)-STAR	
PHOENIX(PHX).....	PEKUE PIPPN ELYNA BACNN J18 GCK J96 CIM ZUN EAGUL (RNAV)-STAR	
PROVIDENCE(PVD).....	LEWKE GIJ EVOTE NELLS KEEHO JHW Q82 MEMMS HINGZ WIPOR (RNAV)-STAR.....	
RALEIGH/DURHAM(RDU).....	EARND ELANR EMMLY ETAME EMEGE FLM BKW FRIKY ALDAN (RNAV)-STAR	
RICHMOND(RIC).....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL SPIDR (RNAV)-STAR	
ROANOKE(ROA).....	(DME/DME/IRU OR GPS)EARND ELANR EMMLY ETAME EMEGE FLM	
ROCHESTER(ROC).....	LEWKE GIJ EVOTE NELLS KEEHO DKK BUF	
SAN FRANCISCO(SFO).....	PEKUE OBENE OGALE OBH SNY J84 DTA J148 KROST RUMPS OAL INYOE DYAMD (RNAV)-STAR.....	
SARASOTA/BRADENTON(SRQ).....	(JETS/TURBOPROPS ONLY)CMSKY CARYN CYBIL PXV HITMN ACORI BANGZ (RNAV)-STAR	
SAT, BAZ, CVB, PEZ, RND, SSF, SKF, 5C1	ACITO ADELL ARLYN STL DGD FSM WINDU GERVO (RNAV)-STAR.....	
TAMPA(TPA).....	CMSKY CARYN CYBIL PXV HITMN ACORI MAATY (RNAV)-STAR.....	
TETERBORO(TEB).....	LEWKE GIJ EVOTE NELLS KEEHO JHW J70 LVZ WILKES-BARRE-STAR	
TOLEDO(TOL).....	LEWKE GIJ J146 GERBS	
TRENTON(TTN).....	LEWKE GIJ J146 CXR EWC JST J152 HAR BUNTS-STAR	

Terminals

WASHINGTON(DCA).....

WASHINGTON(IAD).....

WEST PALM BEACH(PBI).....

WHITE PLAINS(HPN).....

WINDSOR LOCKS(BDL).....

CHICAGO(ORD)

AKRON(CAK).....
ALBANY(ALB).....
ALLENTOWN(ABE).....
ATLANTA(ATL).....

ATLANTIC CITY(ACY).....

AUSTIN(AUS).....

BALTIMORE(BWI).....

BEDFORD(BED).....

BIRMINGHAM(BHM).....
BOCA RATON(BCT).....

BOSTON(BOS).....

BRISTOL/JOHNSON/KINGSPORT(TRI) ..
BUFFALO(BUF).....
BURLINGTON(BTV).....
CAMP SPRINGS(ADW).....

CHARLESTON(CHS).....

CHARLESTON(CRW).....
CHARLOTTE(CLT).....

CHATTANOOGA(CHA).....
CLEVELAND(CLE).....

COLUMBIA(CAE).....
COLUMBUS(CMH).....

COVINGTON(CVG).....
DALLAS-FORT WORTH(DFW).....

DAYTON(DAY).....
DENVER(DEN).....

DETROIT SATS(DET,ARB,PTK,YIP,CYQG)

DETROIT(DTW).....

EVANSVILLE(EVW).....
FORT LAUDERDALE(FLL).....

Route

(CONV)LEWKE GIJ OTENS ANEWA JERRI NUSMM
BUCKO NUMMY-STAR.....
or
(ADVANCED RNAV)LEWKE GIJ OTENS ANEWA JERRI
NUSMM BUCKO FRDMM (RNAV)-STAR.....
(ADVANCED RNAV)LEWKE GIJ OTENS ANEWA JERRI
NUSMM MGW GIBBZ (RNAV)-STAR.....
DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79
ZPLEN VUUDU (RNAV)-STAR.....
LEWKE GIJ EVOTE NELLS KEEHO JHW MEMMS DNY
VALRE-STAR.....
(RNAV ONLY)LEWKE GIJ EVOTE NELLS KEEHO JHW Q82
MEMMS WILET STELA-STAR.....

DUFEE LOGGR DETMR BRWNZ (RNAV)-STAR.....
EBAKE WISMO POSTS PADDE SVM DKK.....
MOBLE ADIME GERBS J146 MIP.....
(RNAV ONLY)CMSKY CARYN CYBIL PXV BNA NEWBB
IHAVE MTHEW CHPPR (RNAV)-STAR.....
MOBLE ADIME GERBS J146 CXR EWC JST J152 HAR
DQO ENO SIE.....
ACITO ADELL ARLYN STL FSM BROBB WINDU SEWZY
(RNAV)-STAR.....
MOBLE ADIME OTENS ANEWA JERRI NUSMM ANTHM
(RNAV)-STAR.....
EBAKE WISMO POSTS PADDE SVM DKK PONCT EEGUL
ZELKA (RNAV)-STAR.....
CMSKY CARYN CYBIL PXV NULLS.....
DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79
ZPLEN VUUDU (RNAV)-STAR.....
EBAKE WISMO POSTS PADDE SVM DKK PONCT JFUND
(RNAV)-STAR.....
EARND ELANR EMMLY ETAME EMEGE FLM.....
DUFEE ELX HAAKK DOXXY SOSIC WTEVR DOBIE DKK
EBAKE WISMO POSTS PADDE SVM DKK GONZZ.....
MOBLE ADIME OTENS ANEWA JERRI NUSMM BUCKO
NUMMY-STAR.....
EARND ELANR EMMLY ETAME EMEGE FLM SPA DEFFN
OSPRI (RNAV)-STAR.....
EARND ELANR EMMLY ETAME EMEGE FLM.....
EARND ELANR EMMLY ERECO IIU SKYWA FILPZ
(RNAV)-STAR.....
DENNT DARCY DREGS DONVE BWG.....
(RNAV TURBOJET)DUFEE LOGGR DETMR BRWNZ
(RNAV)-STAR.....
EARND ELANR EMMLY ETAME EMEGE FLM.....
MOBLE ADIME SEWTO FWA BRYEN DUBLN
(RNAV)-STAR.....
(RNAV)EARND ELANR CEGRM (RNAV)-STAR.....
(TURBOJET)(DFW NORTH FLOW)ACITO ADELL ARLYN
STL RZC FSM RRNET BRDJE (RNAV)-STAR.....
or
(TURBOJET)(DFW SOUTH FLOW)ACITO ADELL ARLYN
STL RZC FSM RRNET SEEVR (RNAV)-STAR.....
MOBLE ADIME SEWTO FWA V277 ROD.....
OLINN OREOS OBENE OGALE OBH BRWRVY LAWGR
(RNAV)-STAR.....
(DME/DME/IRU OR GPS REQUIRED)PETTY WEBOR
RRALF (RNAV)-STAR.....
(DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH
FLOW)RAYNR BRMTN DNIIKA TAAZY PETTY DUUDA
RKCTY (RNAV)-STAR.....
or
(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH
FLOW)RAYNR BRMTN DNIIKA TAAZY PETTY DUUDA
KKISS (RNAV)-STAR.....
DENNT DARCY DREGS DONVE.....
DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79
ZPLEN TEEKY (RNAV)-STAR.....

Terminals	Route	Effective Times (UTC)
FORT MYERS(RSW)	CMSKY CARYN CYBIL PXV HITMN Q19 BULZI Q81 NICKI PLYER TYNEE (RNAV)-STAR	
GREENSBORO(GSO).....	(DME/DME/IRU OR GPS)EARND ELANR EMMLY ETAME EMEGE FLM TRAKS (RNAV)-STAR.....	
GREER(GSP).....	EARND ELANR EMMLY ERECO IIU DAJPI RCTOR (RNAV)-STAR.....	
HOUSTON(HOU).....	(TURBOJETS-DME/DME/IRU OR GPS)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB WAPPL (RNAV)-STAR.....	
HOUSTON(IAH).....	(TURBOJETS, TURBOPROPS)(IAH EAST FLOW)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB GESNR (RNAV)-STAR..... or (TURBOJETS, TURBOPROPS)(IAH WEST FLOW)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB ZEEKK (RNAV)-STAR.....	
HUNTSVILLE(HSV).....	DENNT DARCY DREGS DONVE BWG.....	
HYANNIS(HYA).....	EBAKE WISMO POSTS PADDE SVM DKK ALB ENE LJV	
INDIANAPOLIS(IND).....	EARND ELANR EMMLY JAKKS JAKKS (RNAV)-STAR	
JACKSONVILLE(JAX).....	(TURBOJETS ONLY; DME/DME/IRU OR GPS REQUIRED)DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSR DUCHY OHDEA (RNAV)-STAR	
KNOXVILLE(TYS).....	EARND ELANR EMMLY ETAME EMEGE FLM J43 VXV	
MANCHESTER(MHT).....	(DME/DME/IRU OR GNSS REQUIRED)EBAKE WISMO POSTS PADDE SVM DKK PONCT ROZZE (RNAV)-STAR	1100-0300
MEMPHIS(MEM).....	(RNAV ONLY)CMSKY CARYN CYBIL PXV BLUZZ (RNAV)-STAR..... or (RNAV ONLY)BACEN BLOKR BEKKI FAM WHOLL BRBBQ (RNAV)-STAR.....	
MIAMI(MIA).....	CMSKY CARYN CYBIL PXV HITMN ACORI FROGZ (RNAV)-STAR.....	
MINNEAPOLIS(MSP).....	(TURBOJETS)PMPKN NEATO DLLAN RONIC KAMMA KKILR (RNAV)-STAR..... or (TURBOJETS)MYKIE MONNY MNOSO BLUEM (RNAV)-STAR.....	1000-0300
MSY,NEW,NBG.....	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB TRSSH (RNAV)-STAR.....	
MYRTLE BEACH(MYR).....	EARND ELANR EMMLY ETAME EMEGE FLM WNGUD	
NANTUCKET(ACK).....	EBAKE WISMO POSTS PADDE SVM DKK PONCT ENE V167 LJV	
NASHVILLE(BNA).....	(RNAV)CMSKY CARYN CYBIL PXV GUMMA RYYMN (RNAV)-STAR.....	
NEW HAVEN(HVN).....	DUFEE ELX HAAKK DOXXY SOSIC JHW RKA DENNA-STAR	
NEW ORLEANS(MSY).....	EARND ELANR EMMLY ERECO IIU RYANS.....	
NEW YORK(JFK).....	DUFEE ELX HAAKK DOXXY SOSIC JHW J70 LVZ LENDY-STAR	
NEW YORK(LGA).....	MOBLE ADIME GERBS J146 ETG MILTON-STAR	
NEW YORK(SWF).....	DUFEE ELX HAAKK DOXXY SOSIC JHW MEMMS DNY V483 FILPS	
NEWARK(EWR).....	DUFEE ELX HAAKK DOXXY SOSIC KEEHO J584 SLT FQM WILLIAMSPORT-STAR	
NIAGARA FALLS(IAG).....	EBAKE WISMO POSTS PADDE SVM DERLO	
NORFOLK(ORF).....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR	
ORLANDO(MCO).....	DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSR ZJAYX GRNCH (RNAV)-STAR	
ORLANDO(ORL).....	DENNT DARCY DREGS DUMGE SWAPP Q79 THRSR ZPLEN MJKAL JAFAR (RNAV)-STAR	
PHILADELPHIA(PHL).....	MOBLE ADIME GERBS J146 CXR EWC JST BOJID (RNAV)-STAR.....	
PHOENIX(PHX).....	PEKUE PIPPN ELYNA BACNN J18 GCK J96 CIM ZUN EAGUL (RNAV)-STAR	
PITTSBURGH(PIT).....	MOBLE ADIME OTENS ANEWAM TAMDE ACO JESEY (RNAV)-STAR.....	
PORTLAND(PWM).....	(ADVANCED RNAV ONLY)EBAKE WISMO POSTS PADDE SVM DKK ALB CAM CDOGG (RNAV)-STAR.....	
PROVIDENCE(PVD).....	(RNAV ONLY)DUFEE ELX HAAKK DOXXY SOSIC JHW Q82 MEMMS Q140 KODEY HINGZ WIPOR (RNAV)-STAR	

Terminals

RALEIGH/DURHAM(RDU)
 RICHMOND(RIC)
 ROANOKE(ROA)
 ROCHESTER(ROC).....
 SAN FRANCISCO(SFO).....
 SAN JUAN(TJSJ)
 SARASOTA/BRADENTON(SRQ)
 SAT, BAZ, CVB, PEZ, RND, SSF, SKF, 5C1
 SYRACUSE(SYR).....
 TAMPA(TPA)
 TOLEDO(TOL).....
 WASHINGTON(DCA)
 WASHINGTON(IAD)
 WEST PALM BEACH(PBI).....
 WHITE PLAINS(HPN).....
 WILKES-BARRE/SCRANTON(AVP)
 WINDSOR LOCKS(BDL).....
CHICAGO/ROCKFORD(RFD)
 CLEVELAND
 METRO(CLE,CGF,BKL,LNN,LPR)
CINCINNATI(LUK)
 AUSTIN(AUS).....
 MANCHESTER(MHT)
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR)
 ATLANTA(ATL)
 CHARLOTTE(CLT).....
 CHICAGO(MDW).....
 CHICAGO(ORD)
 COVINGTON(CVG)
 DALLAS-FORT WORTH(DFW)
 HOUSTON(HOU)
 HOUSTON(IAH).....
 INDIANAPOLIS(IND)
 LAS VEGAS(LAS)

Route

EARND ELANR EMMLY ETAME EMEGE FLM BKW FRIKY
 ALDAN (RNAV)-STAR.....
 EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL
 SPIDR (RNAV)-STAR.....
 EARND ELANR EMMLY ETAME EMEGE FLM
 DUFEE ELX HAAKK DOXXY SOSIC WTEVR DOBIE DKK
 BUF.....
 (TURBOJET)NOONY NIGHT NITWT OBH KD63U DTA
 J148 OAL INYOE DYAMD (RNAV)-STAR
 MOBLE ADIME GERBS J146 CXR EWC JST SIE
 (JETS/TURBOPROPS ONLY)CMSKY CARYN CYBIL PXV
 HITMN ACORI BANGZ (RNAV)-STAR.....
 ACITO ADELL ARLYN STL FSM WINDU GERVO
 (RNAV)-STAR
 EBAKE WISMO POSTS PADDE SVM DKK
 CMSKY CARYN CYBIL PXV HITMN ACORI MAATY
 (RNAV)-STAR
 MOBLE ADIME GERBS.....
 (CONVENTIONAL)MOBLE ADIME OTENS ANEWA JERRI
 NUSMM BUCKO NUMMY-STAR.....
 or
 (ADVANCED RNAV)MOBLE ADIME OTENS ANEWA JERRI
 NUSMM BUCKO FRDMM (RNAV)-STAR
 (ADVANCED RNAV)MOBLE ADIME OTENS ANEWA JERRI
 NUSMM MGW GIBBZ (RNAV)-STAR
 DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79
 ZPLEN VUUDU (RNAV)-STAR
 DUFEE ELX HAAKK DOXXY SOSIC JHW MEMMS DNY
 VALRE-STAR
 DUFEE ELX HAAKK DOXXY SOSIC DMACK LACIE.....
 (RNAV)DUFEE ELX HAAKK DOXXY SOSIC JHW Q82
 MEMMS WILET STELA-STAR
 (RNAV TURBOJET)AHMED LEWKE ZIINE BENJO BRWNZ
 (RNAV)-STAR
 CHCLL (RNAV)-DP IIU PXV LIT J131 TXK BROBB WINDU
 SEWZY (RNAV)-STAR
 (DME/DME/IRU OR GNSS REQUIRED)ROCKT (RNAV)-DP
 AHTIY PSB PONCT ROZZE (RNAV)-STAR.....
 (RNAV ONLY)CAVVS (RNAV)-DP APE HLRRY ONDRE
 (RNAV)-STAR
 (RNAV ONLY)CAVVS (RNAV)-DP APE HVQ LNDIZ PARQR
 (RNAV)-STAR
 (RNAV ONLY)GTLKE (RNAV)-DP BAGEL PANGG
 (RNAV)-STAR
 (RNAV ONLY)GTLKE (RNAV)-DP DAIFE WATSN WATSN
 (RNAV)-STAR
 (RNAV ONLY)CAVVS (RNAV)-DP APE TIGRR
 (RNAV)-STAR
 (RNAV)(DFW SOUTH FLOW)ZAAPA (RNAV)-DP SINKR
 PXV LIT FEWWW SEEVR (RNAV)-STAR
 or
 (RNAV TURBOJET)(DFW NORTH FLOW)ZAAPA
 (RNAV)-DP SINKR PXV LIT FEWWW BRDJE
 (RNAV)-STAR
 (RNAV ONLY)ZAAPA (RNAV)-DP SINKR TIIDE Q31
 DHART SWB WAPPL (RNAV)-STAR
 (RNAV ONLY)(IAH WEST FLOW)ZAAPA (RNAV)-DP
 SINKR TIIDE Q31 DHART SWB ZEEKK (RNAV)-STAR
 or
 (RNAV ONLY)(IAH EAST FLOW)ZAAPA (RNAV)-DP SINKR
 TIIDE Q31 DHART SWB ZEEKK (RNAV)-STAR
 ZAAPA (RNAV)-DP SINKR SNKPT SNKPT (RNAV)-STAR
 GTLKE (RNAV)-DP YABRO IOW J60 HVE GGAPP
 CHOWW (RNAV)-STAR
 or
 GTLKE (RNAV)-DP YABRO BDF PWE HBU DVC TYEGR
 CHOWW (RNAV)-STAR

1100-0300

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
LOS ANGELES(LAX)	(RNAV ONLY)GTLKE (RNAV)-DP YABRO IOW HVE PROMT Q88 HAKMN ANJLL (RNAV)-STAR	
MILWAUKEE(MKE)	(RNAV ONLY)GTLKE (RNAV)-DP ALPHE PEGEE GETCH LYSTR SUDDS	
MINNEAPOLIS(MSP)	(RNAV ONLY)GTLKE (RNAV)-DP ALPHE J34 VIO KAMMA KKILR (RNAV)-STAR MSP	1000-0300
PHOENIX(PHX)	(RNAV ONLY)ZAAPA (RNAV)-DP SNNOH VHP ICT GUP EAGUL (RNAV)-STAR	
	or	
RALEIGH/DURHAM(RDU)	(RNAV ONLY)GTLKE (RNAV)-DP YABRO IOW PWE HLC PUB ALS GUP EAGUL (RNAV)-STAR	
SAN FRANCISCO(SFO)	CAVVS (RNAV)-DP APE BKW FRIKY ALDAN (RNAV)-STAR	
	(RNAV ONLY)GTLKE (RNAV)-DP ALPHE J70 PMM J94 DBQ FOD ONL J94 LLC LEGGS BDEGA (RNAV)-STAR	
	or	
SEATTLE(SEA)	(RNAV ONLY)ZAAPA (RNAV)-DP VHP SNNOH J80 OAL INYOE DYAMD (RNAV)-STAR	
	(RNAV ONLY)GTLKE (RNAV)-DP ALPHE J34 BAE J16 PDT CHINS-STAR	
CLEVELAND(CLE)		
BALTIMORE(BWI)	(RNAV ONLY)KKIDS (RNAV)-DP NUSMM ANTHM (RNAV)-STAR	
BOSTON(BOS)	(RNAV ONLY)PFLYD (RNAV)-DP DUUKR JHW Q82 PONCT JFUND (RNAV)-STAR	1100-0300
FORT LAUDERDALE(FLL)	CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 PRMUS CUUDA (RNAV)-STAR	
FORT MYERS(RSW)	CAVVS (RNAV)-DP APE J83 SPA IRQ CYNITA SHFTY (RNAV)-STAR	
KANSAS CITY(MCI)	(RNAV TURBOJET/TURBOPROP)ZAAPA (RNAV)-DP SNNOH VHP SPI EUING RUDDH (RNAV)-STAR...	
MIAMI(MIA)	CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 DEBRL CSTAL (RNAV)-STAR	
NEW YORK(JFK)	(RNAV ONLY)PFLYD (RNAV)-DP JASEE HOXIE J70 LVZ LENDY-STAR	
NEW YORK(LGA)	(RNAV ONLY)PFLYD (RNAV)-DP MAAJR ETG MILTON-STAR	
NEWARK(EWR)	(RNAV ONLY)PFLYD (RNAV)-DP DORET J584 SLT WILLIAMSPORT-STAR	
ORLANDO(MCO)	(MCO LANDING NORTH)CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 GIPPL Q85 LPERD SNFLD (RNAV)-STAR	
	or	
	(MCO LANDING SOUTH)CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 GIPPL Q85 LPERD GTOUT (RNAV)-STAR	
PHILADELPHIA(PHL)	(RNAV ONLY)KKIDS (RNAV)-DP EWC JST BOJID (RNAV)-STAR	
WASHINGTON(DCA)	(RNAV ONLY)KKIDS (RNAV)-DP NUSMM BUCKO FRDMM (RNAV)-STAR	
WASHINGTON(IAD)	(RNAV ONLY)KKIDS (RNAV)-DP NUSMM MGW GIBBZ (RNAV)-STAR	
WEST PALM BEACH(PBI)	CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 KENLL CPTAN (RNAV)-STAR	
COLUMBUS(CMH)		
DALLAS-FORT WORTH(DFW)	(ALL OTHERS)DQN CVG PXV J131 LIT WILBR-STAR or	
	(RNAV TURBOJET)(DFW NORTH FLOW)DQN CVG PXV J131 LIT FEWWW BRDJE (RNAV)-STAR	
FORT LAUDERDALE(FLL)	OHIOS HVQ J85 SPA QUIWE Q93 PRMUS CUUDA (RNAV)-STAR	
MIAMI(MIA)	OHIOS HVQ J85 SPA QUIWE Q93 DEBRL CSTAL (RNAV)-STAR	
ORLANDO(MCO)	OHIOS HVQ J85 SPA IRQ WHYTT GRNCH (RNAV)-STAR	
WEST PALM BEACH(PBI)	OHIOS HVQ J85 SPA QUIWE Q93 KENLL CPTAN (RNAV)-STAR	
DAYTON(DAY)		
DALLAS-FORT WORTH(DFW)	(ALL OTHERS)PXV J131 LIT WILBR-STAR	
	or	
	(RNAV TURBOJET)(DFW NORTH FLOW)PXV J131 LIT FEWWW BRDJE (RNAV)-STAR	

PREFERRED IFR ROUTES

449

Terminals	Route	Effective Times (UTC)
DETROIT METRO(DTW,DET,YQG,PTK,YIP,ARB)		
ATLANTA(ATL)	(RNAV ONLY)BARII (RNAV)-DP SINKR IIU BNA NEWBB IHAVE MTHEW CHPPR (RNAV)-STAR	
	or	
	(RNAV ONLY)CLVIN (RNAV)-DP STAZE FLM KTRYN ONDRE (RNAV)-STAR	
BALTIMORE(BWI).....	(RNAV ONLY)LIDDS (RNAV)-DP GRIVY NUSMM ANTHM (RNAV)-STAR	
BOSTON(BOS).....	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW Q82 PONCT JFUND (RNAV)-STAR	1100-0300
BUFFALO(BUF)	(RNAV ONLY)HHOWE (RNAV)-DP BROKK DKK BUF	
BURLINGTON(BTV)	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW LAGGS	
CHARLOTTE(CLT)	(RNAV ONLY)CLVIN (RNAV)-DP STAZE FLM TAFTT PARQR (RNAV)-STAR	
CHICAGO(MDW).....	(RNAV ONLY)CCOBB (RNAV)-DP ZEGBI LEROY BAGEL PANGG (RNAV)-STAR	
CHICAGO(ORD)	(ADVANCED RNAV)SNDRS (RNAV)-DP SNDRS NOLNN Q62 WATSN WATSN (RNAV)-STAR.....	
	or	
	(ADVANCED RNAV)KAYLN (RNAV)-DP SMUUV WYNDE WYNDE (RNAV)-STAR.....	
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR)	(RNAV ONLY)LIDDS (RNAV)-DP LIDDS WINNZ BRWNZ (RNAV)-STAR	
COLUMBUS(CMH).....	CLVIN (RNAV)-DP CLVIN ESSIE DUBLN (RNAV)-STAR	
COVINGTON(CVG)	(RNAV ONLY)SNDRS (RNAV)-DP TORRR DEBAR ARBAS RID MEEKR.....	
DALLAS-FORT WORTH(DFW)	(RNAV ONLY)(DFW SOUTH FLOW)SNDRS (RNAV)-DP BGHRT STL RZC FSM RRNET SEEVR (RNAV)-STAR	
	or	
	(RNAV ONLY)(DFW NORTH FLOW)SNDRS (RNAV)-DP BGHRT STL RZC RRNET BRDJE (RNAV)-STAR	
DENVER(DEN)	KAYLN (RNAV)-DP SMUUV IANNA ONL PORDR AALLE (RNAV)-STAR	
FORT MYERS(RSW).....	CLVIN (RNAV)-DP STAZE VXV TEUFL CYNTA SHFTY (RNAV)-STAR	
GREER(GSP)	(RNAV ONLY)CLVIN (RNAV)-DP STAZE FLM LOZ DAJPI RCTOR (RNAV)-STAR.....	
HOUSTON(HOU)	(RNAV ONLY)BARII (RNAV)-DP SINKR PVX J131 LIT J180 SWB WAPPL (RNAV)-STAR.....	
HOUSTON(IAH).....	(RNAV ONLY)(IAH EAST FLOW)BARII (RNAV)-DP SINKR TIIDE Q31 DHART SWB GESNR (RNAV)-STAR.....	
	or	
	(RNAV ONLY)(IAH WEST FLOW)BARII (RNAV)-DP SINKR TIIDE Q31 DHART SWB ZEEKK (RNAV)-STAR	
INDIANAPOLIS(IND)	(RNAV ONLY)SNDRS (RNAV)-DP TORRR SNKPT SNKPT (RNAV)-STAR	
LOUISVILLE(SDF)	(RNAV EQUIPPED)BARII (RNAV)-DP SINKR CVG DLAMP (RNAV)-STAR	
MANCHESTER(MHT)	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW Q82 PONCT ROZZE (RNAV)-STAR.....	1100-0300
MEMPHIS(MEM)	(RNAV ONLY)BARII (RNAV)-DP SINKR PVX BLUZZ (RNAV)-STAR	
MINNEAPOLIS(MSP).....	(RNAV TURBOJETS)MIGGY (RNAV)-DP SLLAP Q440 IDIOM MUSCL (RNAV)-STAR	1000-0300
MSY,NEW,NBG	(RNAV ONLY)BARII (RNAV)-DP SINKR IIU Q139 HITMN MERDN TRSSH (RNAV)-STAR	
NEW YORK(JFK).....	(RNAV ONLY)PAVYL (RNAV)-DP MRDOC HOXIE J70 LVZ LENDY-STAR.....	
NEW YORK(LGA).....	(RNAV ONLY)PAVYL (RNAV)-DP ESSBE CXR J146 ETG MILTON-STAR.....	
NEWARK(EWR).....	(RNAV ONLY)PAVYL (RNAV)-DP ESSBE SLT FQM EWR	
NORFOLK(ORF).....	LIDDS (RNAV)-DP GRIVY NUSMM MOL TERKS-STAR	
PHILADELPHIA(PHL)	(RNAV ONLY)PAVYL (RNAV)-DP ESSBE CXR EWC JST BOJID (RNAV)-STAR.....	
PITTSBURGH(PIT)	(RNAV ONLY)LIDDS (RNAV)-DP GRIVY CUTTA JESEY JESEY (RNAV)-STAR	
PORTLAND(PWM)	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW Q82 PONCT CAM CDOGG (RNAV)-STAR	1100-0300
PROVIDENCE(PVD)	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW Q82 MEMMS HINGZ WIPOR (RNAV)-STAR.....	1100-0300

Terminals

RALEIGH/DURHAM(RDU)

RICHMOND(RIC)

ROANOKE(ROA)

ROCHESTER(ROC)

SAN FRANCISCO(SFO)

SYRACUSE(SYR)

TETERBORO(TEB)

WASHINGTON(DCA)

WASHINGTON(IAD)

WHITE PLAINS(HPN)

DETROIT(DTW)

AUSTIN(AUS)

FORT LAUDERDALE(FLL)

MIAMI(MIA)

ORLANDO(MCO)

TAMPA(TPA)

WEST PALM BEACH(PBI)

DETROIT(DTW,DET,YQG,PTK,YIP,ARB)

SAT,BAZ,CVB,PEZ,RND,SSF,SKF,5C1 ..

ELKHART(EKM)

CLEVELAND
METRO(CLE,CGF,BKL,LNN,LPR)

FORT WAYNE(FWA)

COVINGTON(CVG)

GRAND RAPIDS(GRR)

ATLANTA(ATL)

CLEVELAND
METRO(CLE,CGF,BKL,LNN,LPR)

COVINGTON(CVG)

DENVER(DEN)

KALAMAZOO(AZO)

CLEVELAND
METRO(CLE,CGF,BKL,LNN,LPR)

COVINGTON(CVG)

MADISON(MSN)

CLEVELAND
METRO(CLE,CGF,BKL,LNN,LPR)

DENVER(DEN)

MILWAUKEE(MKE)

AKRON(CAK)

ALBANY(ALB)

BALTIMORE(BWI)

BEDFORD(BED)

BOCA RATON(BCT)

BOSTON(BOS)

BUFFALO(BUF)

BURLINGTON(BTV)

Route

LIDDS (RNAV)–DP GRIVY NUSMM EKN FRIKY ALDAN
(RNAV)–STAR

(RNAV EQUIPPED)LIDDS (RNAV)–DP GRIVY NUSMM
MOL SPIDR (RNAV)–STAR

(RNAV EQUIPPED)LIDDS (RNAV)–DP GRIVY NUSMM
EKN ROA

HHOWE (RNAV)–DP BROKK DKK BUF

(RNAV EQUIPPED)KAYLN (RNAV)–DP SMUUV BFF J157
MTU J148 OAL INYOE DYAMD (RNAV)–STAR

(RNAV EQUIPPED)HHOWE (RNAV)–DP LNCON JHW
(RNAV EQUIPPED)PAVYL (RNAV)–DP MRDOC HOXIE J70
LVZ WILKES–BARRE–STAR

(RNAV ONLY)LIDDS (RNAV)–DP GRIVY BUCKO FRDMM
(RNAV)–STAR

(RNAV ONLY)LIDDS (RNAV)–DP GRIVY AIR MGW GIBBZ
(RNAV)–STAR

or
CLVIN (RNAV)–DP STAZE BKW GIBBZ (RNAV)–STAR
HHOWE (RNAV)–DP LNCON JHW MEMMS DNY
VALRE–STAR

BARII (RNAV)–DP SINKR TERGE FSM BROBB WINDU
SEWZY (RNAV)–STAR

CLVIN (RNAV)–DP STAZE VXV THRSR Q79 ZPLEN TEEKY
(RNAV)–STAR

CLVIN (RNAV)–DP STAZE VXV THRSR HONID FROGZ
(RNAV)–STAR

CLVIN (RNAV)–DP STAZE VXV TEUFL WHYTY GRNCH
(RNAV)–STAR

CLVIN (RNAV)–DP STAZE VXV DAREE Q65 KERLY
BAAMF DADES (RNAV)–STAR

CLVIN (RNAV)–DP STAZE VXV THRSR Q79 ZPLEN
VUUDU (RNAV)–STAR

(RNAV EQUIPPED)SNDRS (RNAV)–DP BGHRT STL RZC
MLC NILBE QERVO (RNAV)–STAR

(RNAV TURBOJET)BENJO BRWNZ (RNAV)–STAR....

FWA ZEKUS ARBAS RID MEEKR CVG

FWA IIU BNA NEWBB IHAVE MTHEW CHPPR
(RNAV)–STAR

(RNAV TURBOJET)HASTE BRWNZ (RNAV)–STAR

FWA ZEKUS ARBAS RID MEEKR CVG

OBK JORDY ONL PORDR AALLE (RNAV)–STAR

(RNAV TURBOJET)DETMR BRWNZ (RNAV)–STAR...

FWA ZEKUS ARBAS RID MEEKR CVG

(RNAV TURBOJET)SQUIB OLYEE BRWNZ (RNAV)–STAR

LNR MCW ONL PORDR AALLE (RNAV)–STAR

(RNAV TURBOJET)SQUIB OLYEE BRWNZ (RNAV)–STAR

SQUIB MKG HOCKE Q935 FABEN

OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM
ANTHM (RNAV)–STAR

SQUIB MKG HOCKE Q935 PONCT EEGUL ZELKA
(RNAV)–STAR

UECKR (RNAV)–DP DELHI PXV HITMN ACORI VUUDU
(RNAV)–STAR

SQUIB MKG HOCKE Q816 KELTI NABOR PONCT JFUND
(RNAV)–STAR

SQUIB MKG YXU

SQUIB MKG HOCKE DERLO WOZEE GONZZ

PREFERRED IFR ROUTES

451

Effective
Times (UTC)

Terminals

CAMP SPRINGS(ADW).....
 CLEVELAND
 METRO(CLE, CGF, BKL, LNN, LPR).....
 DENVER(DEN).....
 DETROIT(DTW).....
 FLINT(FNT).....
 FORT LAUDERDALE(FLL).....
 FORT MYERS(FMY).....
 HARRISBURG(MDT).....
 HOUSTON(HOU).....
 HOUSTON(IAH).....
 HYANNIS(HYA).....
 JACKSON(JXN).....
 KANSAS CITY(MCI).....
 KANSAS CITY(MKC).....
 LANSING(LAN).....
 MANSFIELD(MFD).....
 MIAMI(MIA).....
 MONTREAL(CYUL).....
 MORRISTOWN(MMU).....
 NASHVILLE(BNA).....
 NEW YORK(JFK).....
 NEW YORK(LGA).....
 NEWARK(EWR).....
 NIAGARA FALLS(IAG).....
 ORLANDO(MCO).....
 ORLANDO(ORL).....
 PHILADELPHIA(PHL).....
 PITTSBURGH(PIT).....
 PORTLAND(PWM).....
 POTTSTOWN(PTW).....
 PROVIDENCE(PVD).....
 SARASOTA/BRADENTON(SRQ).....
 SYRACUSE(SYR).....
 TAMPA(TPA).....
 TETERBORO(TEB).....
 TORONTO(CYYZ).....

Route

OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM
 BUCKO NUMMY-STAR.....
 (RNAV TURBOJET)SQUIB OLYEE BRWNZ (RNAV)-STAR
 GREAS JAYEX MCW ONL PORDR AALLE (RNAV)-STAR
 (DME/DME/IRU OR GPS REQUIRED)(DTW NORTH
 FLOW)SQUIB DUUDA KKISS (RNAV)-STAR.....
 or
 (DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH
 FLOW)SQUIB DUUDA RKCTY (RNAV)-STAR
 SQUIB.....
 UECKR (RNAV)-DP DELHI PXV HITMN ACORI TEEKY
 (RNAV)-STAR.....
 UECKR (RNAV)-DP DELHI PXV HITMN Q19 BULZI Q81
 NICKI PLYER TYNEE (RNAV)-STAR.....
 OBK SAMPL ADIME GERBS J146 CXR EWC HAR.....
 (TURBOJETS-DME/DME/IRU OR GPS)LIT J180 SWB
 WAPPL (RNAV)-STAR.....
 (TURBOJETS, TURBOPROPS)(IAH EAST FLOW)LIT J180
 SWB GESNR (RNAV)-STAR.....
 or
 (TURBOEJTS, TURBOPROPS)(IAH WEST FLOW)LIT J180
 SWB ZEEKK (RNAV)-STAR.....
 SQUIB MKG HOCKE Q935 WOZEE ENE.....
 SQUIB.....
 (RNAV TURBOJET/TURBOPROP)BULET RUDDH
 (RNAV)-STAR.....
 IRK BRAYMER-STAR.....
 SQUIB VIO.....
 OBK SAMPL ADIME OTENS.....
 UECKR (RNAV)-DP DELHI PXV HITMN ACORI FROGZ
 (RNAV)-STAR.....
 (DME/DME/IRU OR GNSS REQUIRED)SQUIB MKG
 HOCKE Q905 SIKBO Q951 SANIN MIGLO HABBS
 (CANADIAN) (RNAV)-STAR.....
 SQUIB MKG HOCKE Q935 HANKK IGN WEARD V489
 COATE.....
 UECKR (RNAV)-DP DELHI PXV GUMMA RYYMN
 (RNAV)-STAR.....
 SQUIB MKG HOCKE Q935 HANKK Q140 YODAA IGN
 KINGSTON-STAR.....
 (TURBOJET)SQUIB MKG HOCKE Q935 AUDIL RKA
 HAARP-STAR.....
 SQUIB MKG HOCKE Q935 HANKK Q140 KODEY HNK
 FLOSI (RNAV)-STAR.....
 SQUIB MKG YXU.....
 OBK DELHI TTH BWG JILIS THRSR ZJAYX GRNCH
 (RNAV)-STAR.....
 OBK DELHI TTH BWG JILIS THRSR ZPLEN MJKAL JAFAR
 (RNAV)-STAR.....
 OBK SAMPL ADIME GERBS J146 CXR EWC JST BOJID
 (RNAV)-STAR.....
 UECKR (RNAV)-DP SAMPL ADIME OTENS ANEWA
 TAMDE ACO JESEY (RNAV)-STAR.....
 SQUIB MKG HOCKE Q935 PONCT CAM CDOGG
 (RNAV)-STAR.....
 SQUIB ADALE J34 CRL CXR EWC JST.....
 (TURBOJET, TURBOPROPS)SQUIB MKG HOCKE Q816
 KELTI HANKK Q140 ARKK HINGZ WIPOR
 (RNAV)-STAR.....
 (JETS/TURBOPROPS ONLY)UECKR (RNAV)-DP DELHI
 PXV HITMN ACORI BANGZ (RNAV)-STAR.....
 SQUIB MKG HOCKE Q935 WOZEE.....
 UECKR (RNAV)-DP DELHI PXV HITMN ACORI MAATY
 (RNAV)-STAR.....
 (DME/DME/RU OR GNSS REQUIRED)SQUIB MKG HOCKE
 Q935 HANKK Q140 KODEY HNK V167 WEARD ..
 SQUIB MKG MONEE NUBER (CANADIAN) (RNAV)-STAR

1100-0300

1100-0300

Terminals	Route	Effective Times (UTC)
WASHINGTON(DCA).....	OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM BUCKO FRDMM (RNAV)-STAR	
	or	
WASHINGTON(IAD).....	OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM BUCKO NUMMY-STAR	
WEST PALM BEACH(PBI)	(RNAV EQUIPPED)OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM MGW GIBBZ (RNAV)-STAR.....	
WHITE PLAINS(HPN)	UECKR (RNAV)-DP DELHI PXV HITMN ACORI VUUDU (RNAV)-STAR.....	
WINDSOR LOCKS(BDL)	SQUIB MKG HOCKE Q935 WOZEE MEMMS DNY VALRE-STAR	
YOUNGSTOWN/WARREN(YNG).....	(TURBOJET, TURBOPROP)SQUIB MKG HOCKE Q816 KELTI AUDIL STELA-STAR	
MOLINE(MLI)	OBK SAMPL ADIME GERBS CXR	
CLEVELAND	(RNAV TURBOJET)DUFEE LOGGR DETMR BRWNZ (RNAV)-STAR.....	
METRO(CLE,CGF,BKL,LNN,LPR).....	(AOA 140)(DTW SOUTH FLOW)MIHAL WITGO BAE PORZL RKCTY (RNAV)-STAR.....	
DETROIT(DTW)	or	
	(AOA 140)(DTW NORTH FLOW)MIHAL WITGO BAE PORZL RKCTY (RNAV)-STAR.....	
MONTREAL(CYUL)		
06FA, BCT, F45, PBI.....	(JETS ONLY)(WATER)FAWNS BUGSY PONCT Q113 LLUND Q437 VILLS Q409 CRPLR EARZZ Q131 WAALT Y289 DULEE CLMNT (RNAV)-STAR.....	
06FA,BCT,FXE,PBI,PMP	FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 JEVED Q97 KENLL CPTAN (RNAV)-STAR	
07FA, HST, MIA, TMB, X51	FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 JEVED Q97 DEBRL CSTAL (RNAV)-STAR.....	
	or	
	(JETS ONLY, EXCLUDES EA50, E50P, SF50, C510, C525)(WATER)FAWNS BUGSY PONCT Q133 LLUND Q437 VILLS Q409 CRPLR BGBRD Q101 SKARP Y313 HOAGG BNFSH (RNAV)-STAR	
07FA,FLL,HST,HWO,MIA,OPF,TMB,X51	(VLJ)/TURBPROP ONLY: INCL EA50,E50P,SF50,C510,C525)FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 JEVED Q97 KENLL TARP (RNAV)-STAR.....	
BALTIMORE(BWI)	FAWNS BUGSY PONCT BIZEX Q75 MXE V378 NUGGY TRISH (RNAV)-STAR	
CHARLOTTE(CLT)	FAWNS BUGSY PONCT BIZEX Q75 GVE LYH CHSLY (RNAV)-STAR.....	
FLL, OPF	(JETS ONLY, EXCLUDES EA50, E50P, SF50, C510, C525)(WATER)FAWNS BUGSY PONCT Q133 LLUND Q437 VILLS Q409 CRPLR KOOKI Q133 CHIEZ Y291 MAJIK CUUDA (RNAV)-STAR	
	or	
	(JETS ONLY, EXCLUDES EA50, E50P, SF50, C510, C525)FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 JEVED Q97 PRMUS CUUDA (RNAV)-STAR.....	
FORT MYERS(RSW)	FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q103 CYNTA SHFTY (RNAV)-STAR	1100-0300
FRG, JFK.....	(DME/DME/IRU OR GNSS REQUIRED)FAWNS BUGSY ALB IGN KINGSTON-STAR.....	1100-0300
NEW YORK(LGA).....	(PROPS, TURBOPROPS 250 KTS OR LESS)FAWNS BUGSY ALB NOBBI-STAR	
	or	
	FAWNS BUGSY ALB HAARP-STAR.....	1100-0300
NEWARK(EWR)	(PROPS, TURBOPROPS LESS THAN 250 KTS)FAWNS BUGSY HANAA ALB V489 COATE.....	
	or	
	(250 KTS OR GREATER)FAWNS BUGSY HANAA FLOSI (RNAV)-STAR.....	

PREFERRED IFR ROUTES

453

Terminals

ORLANDO(MCO)

TAMPA(TPA)

TETERBORO(TEB)
WASHINGTON(DCA)

WHITE PLAINS(HPN).....

Route

(MCO LANDING NORTH)FAWNS BUGSY PONCT BIZEX
Q75 SLOJO Q83 ROYCO Q85 LPERD SNFLD
(RNAV)-STAR
or
(MCO LANDING SOUTH)FAWNS BUGSY PONCT BIZEX
Q75 SLOJO Q83 ROYCO Q85 LPERD GTOUT
(RNAV)-STAR
FAWNS BUGSY PONCT BIZEX Q75 TEUFL BAAMF
DADES (RNAV)-STAR.....
FAWNS BUGSY HANAA ALB V489 COATE.....
FAWNS BUGSY PONCT BIZEX Q75 MXE CLIPR
(RNAV)-STAR
(PROPS, TURBOPROPS 250 KTS OR LESS)FAWNS
BUGSY ALB NOBBI-STAR.....
or
(250 KTS OR GREATER)FAWNS BUGSY ALB
VALRE-STAR

Effective
Times (UTC)

1100-0300

PEORIA(PIA)

DETROIT(DTW)

(DTW SOUTH FLOW)SWAYD HANBL (RNAV)-STAR .
or
(DTW NORTH FLOW)SWAYD LECTR (RNAV)-STAR..

SOUTH BEND(SBN)

ATLANTA(ATL)
CLEVELAND
METRO(CLE,CGF,BKL,LNN,LPR)
COVINGTON(CVG)

PXV BNA NEWBB IHAVE MTHEW CHPPR (RNAV)-STAR
(RNAV TURBOJET)BENJO BRWNZ (RNAV)-STAR

FWA ZEKUS ARBAS RID MEEKR CVG

SPRINGFIELD(SPI)

CHICAGO(ORD)

(TURBOJET)PNT TRICH TRTLL (RNAV)-STAR
or
(TURBOJET)PNT TRICH SHAIN (RNAV)-STAR

TOLEDO(TOL)

ATLANTA(ATL)

RID IIU BNA NEWBB IHAVE MTHEW CHPPR
(RNAV)-STAR

SPECIAL HIGH ALTITUDE PREFERRED DIRECTION ROUTES

Terminals

TRAFFIC OVERFLYING BADGER (BAE)
VORTAC TO WASHINGTON DULLES (IAD)
(GPS OR DME/DME-IRU EQUIPPED)
.....
TRAFFIC OVERFLYING GIPPER (GIJ)
VORTAC TO WASHINGTON DULLES (IAD)
(GPS OR DME/DME-IRU)
.....
TRAFFIC OVERFLYING SOUTHEASTERN
ZAU LANDING CINCINNATI SATS
LUK,HAO,I69,K62
.....
TRAFFIC OVERFLYING SOUTHEASTERN
ZAU LANDING CVG
.....
TRAFFIC OVERFLYING ZAU LANDING
DETROIT SATS
YIP,ARB,MTZ,ONZ,PTK,TTF,VLL
NORTHEAST BOUND.....
TRAFFIC OVERFLYING ZAU LANDING DTW
(DTW LANDING NORTH) (AOB FL330)
NORTHEAST BOUND.....
TRAFFIC OVERFLYING ZAU LANDING DTW
(DTW LANDING SOUTH) (AOB FL330)
NORTHEAST BOUND.....
TRAFFIC OVERFLYING ZAU LANDING TOL
(AOB FL290)
NORTHEAST BOUND.....

Route

J34 AIR MGW GIBBZ (RNAV)-STAR

J146 WOOST J34 AIR MGW GIBBZ (RNAV)-STAR...

FWA HEDEE-STAR.....

FWA ZEKUS ARBAS RID MEEKR CVG

Effective
Times (UTC)

PREFERRED IFR ROUTES
HIGH ALTITUDE—PREFERRED DIRECTION ROUTES

Airway	Segment Fixes	Direction Effective	Effective Times (UTC)
J30	JOLIET, IL to TRIXY, VA.....	E BND	1100-0300
J34	BELLAIRE, OH to TRIXY, VA.....	E BND	1100-0300
J162	BELLAIRE, OH to MARTINSBURG, WV	E BND	1100-0300

MINIMUM OPERATIONAL NETWORK (MON) AIRPORT LISTING





STATE	CITY	AIRPORT NAME	LOCATION IDENTIFIER
IL	CHICAGO/WEST CHICAGO	DUPAGE	DPA
IL	DECATUR	DECATUR	DEC
IL	OLNEY-NOBLE	OLNEY-NOBLE	OLY
IN	EVANSVILLE	EVANSVILLE RGNL	EVV
IN	INDIANAPOLIS	INDIANAPOLIS RGNL	MQJ
MI	GRAND RAPIDS	GERALD R FORD INTL	GRR
MI	HOWELL	LIVINGSTON COUNTY SPENCER J HARDY	OZW
MI	IRONWOOD	GOGEBIC-IRON COUNTY	IWD
MI	MARQUETTE	SAWYER INTL	SAW
MI	SAULT STE MARIE	SAULT STE MARIE MUNI/SANDERSON FIELD	ANJ
MI	TRAVERSE CITY	CHERRY CAPITAL	TVC
OH	AKRON	AKRON-CANTON RGNL	CAK
OH	NEWARK	NEWARK-HEATH	VTA
WI	BARABOO	BARABOO-WISCONSIN DELLS RGNL	DLL
WI	GREEN BAY	GREEN BAY-AUSTIN STRAUBEL INTL	GRB
WI	Madison	DANE COUNTY RGNL-TRUAX FIELD	MSN

In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the Chart Supplement. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the Chart Supplement may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., .
 2. Approach lighting systems that do not bear a system identification are indicated with a negative "0" beside the name. A star (*) indicates non-standard PCL, consult Chart Supplement, e.g., .
- To activate lights, use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 .

<u>KEY MIKE</u>	<u>FUNCTION</u>
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

Date of Latest Revision 09365

The Date of Latest Revision identifies the Julian date the chart was added or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest revision of any kind has been made to the chart.



The FAA Procedure Amendment Number represents the most current amendment of a given procedure. The Procedure Amendment Effective Date represents the AIRAC cycle date on which the procedure amendment was incorporated into the chart. Updates to the amendment number & effective date represent procedural/criteria revisions to the charted procedure, e.g., course, fix, altitude, minima, etc.

NOTE: Inclusion of the "Procedure Amendment Effective Date" will be phased in as procedures are amended. As this occurs, the Julian date will be relocated to the upper right corner of the chart.

MISCELLANEOUS

- * Indicates a non-continuously operating facility, see Chart Supplement. For Civil (FAA) instrument procedures, "RADAR REQUIRED" in the planview of the chart indicates that ATC radar must be available to assist the pilot when transitioning from the en route environment. "Radar required" in the pilot briefing portion of the chart indicates that ATC radar is required on portions of the procedure outside the final approach segment, including the missed approach. Some military procedures also have equipment requirements such as "Radar Required", but do not conform to the same charting application standards used by the FAA. Distances in nautical miles (except visibility in statute miles and Runway Visual Range in hundreds of feet). Runway Dimensions in feet. Elevations in feet. Mean Sea Level (MSL). Ceilings in feet above airport elevation. Radials/bearings/headings/courses are magnetic. Horizontal Datum: Unless otherwise noted on the chart, all coordinates are referenced to North American Datum 1983 (NAD 83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

Terrain is scaled within the neat lines (planview boundaries) and does not accurately underlie not-to-scale distance depictions or symbols.

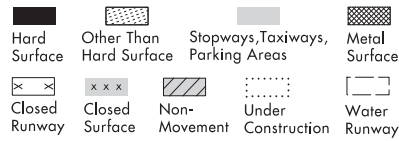
24025

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

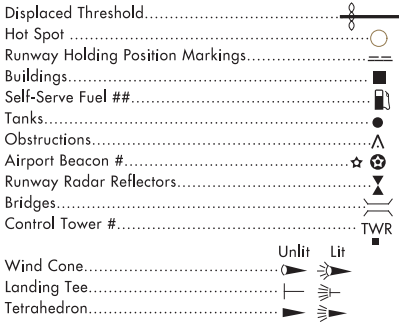
Runways



ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



REFERENCE FEATURES



When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

See appropriate Chart Supplement for information.

Runway Weight Bearing Capacity or Pavement Classification Number (PCN)/Pavement Classification Rating (PCR) is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCR 560 R/B/W/T; S-75, D-185, 2D-325, 2D/2D2-1120

Helicopter Alighting Areas

Negative Symbols used to identify Copter Procedures landing point.....

NOTE: Landmark features depicted on Copter Approach insets and sketches are provided for visual reference only.

Runway TDZ elevation.....TDZE 123

Runway Slope..... \leftarrow 0.3% Down.....0.8% UP \rightarrow
(shown when rounded runway slope is \geq 0.3%)

NOTE: Runway Slope measured to midpoint on runways 8000 feet or longer.

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or 1/2 minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

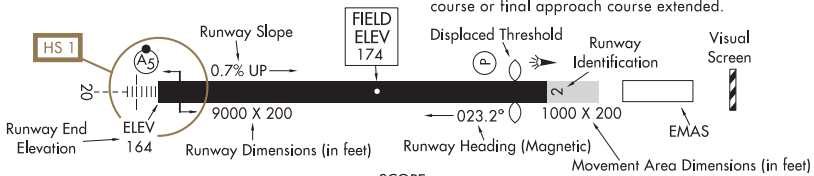
Positional accuracy within \pm 600 feet unless otherwise noted on the chart.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A symbol is shown to indicate runway declared distance information available, see appropriate Chart Supplement for distance information.

NOTE: All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in DoD FLIP. (Foreign Only)

The airport sketch box includes the final approach course or final approach course extended.



Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

HOT SPOTS

An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
ILLINOIS		
ALTON/ST LOUIS ST LOUIS RGNL (ALN)	HS 1	Twy C and Rwy 11, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering the Twy C.
	HS 2	Twy A and Rwy 17–35, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering the Twy A.
BELLEVILLE SCOTT AFB/MIDAMERICA ST LOUIS (BLV)	HS 1	Maint vigilance Twy G due to numerous veh crossings.
	HS 2	Maint vigilance Twy G close proximity to the ramp and numerous veh crossings.
BLOOMINGTON/NORMAL CENTRAL IL RGNL/BLOOMINGTON–NORMAL (BMI)	HS 1	Twy G intersecting Rwy 11–29. Short taxi distance from terminal ramp.
	HS 2	Hold line on Twy E is used for Rwy 02–20 and Rwy 29.
CARBONDALE/MURPHYSBORO SOUTHERN ILLINOIS (MDH)	HS 1	Intersection of Rwy 06–24 and Twy A. Rwy incursion risk.
	HS 2	Intersection of Rwy 06–24 and Twy C. Rwy incursion risk.
CHAMPAIGN/URBANA UNIVERSITY OF ILLINOIS/WILLARD (CMI)	HS 1	Complex intersection of Twy A, Twy A2, Twy B, Twy C, and Twy D, Twy D1, and Twy E.
CHICAGO CHICAGO MIDWAY INTL (MDW)	HS 1	Taxiing to Rwy 04L from Twy W. Note: dispcl thld and unique turn onto Rwy 04L.
	HS 2	Intersection of Rwy 04R and Twy F. Rwy 04R may be active whenever Rwy 31C is also active.
	HS 3	Hold short line for Rwy 31L immediately after Twy F and Twy K intersection, on Twy K.
	HS 4	Short taxi distance from terminal ramp to hold position for Rwy 13L–31R.
CHICAGO CHICAGO O'HARE INTL (ORD)	HS 1	Acft/vehicles taxiing on Twy A btn Twy A19 and Twy A17, use caution for acft pushing onto Twy A fr Gates K18 and K20.
	HS 2	Acft/vehicles taxiing on Twy A btn Twy A12 and Twy A11, use caution for acft pushing onto Twy A fr Gates F26 and F28.
CHICAGO/PROSPECT HEIGHTS/WHEELING CHICAGO EXEC (PWK)	HS 1	Twy E, Twy K, and Twy C complex intersection in close proximity of rws.
	HS 2	Twy intersection in close proximity of Rwy 06.
CHICAGO/ROCKFORD CHICAGO/ROCKFORD INTL (RFD) MARION VETERANS AIRPORT OF SOUTHERN ILLINOIS (MWA)	HS 1	This area is not visible from the twr.
	HS 2	This area is not visible from the twr.
	HS 3	Hold short of Rwy 02 at Twy B for departure on Rwy 11. Some pilots mistakenly line up on Rwy 02.
PEORIA GENERAL DOWNING – PEORIA INTL (PIA)	HS 1	Complex intersection in close proximity to two rws.
	HS 2	Short taxi distance to Rwy 04–22.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
QUINCY QUINCY RGNL-BALDWIN FLD (UIN)	HS 1	No line of sight fr Rwy 04-22 rwy ends to Rwy 31 end. Announce intentions and mnt CTAF for awareness of potential crossing ttc.
INDIANA		
COLUMBUS COLUMBUS MUNI (BAK)	HS 1	Twy A & Twy B Converge.
EVANSVILLE EVANSVILLE RGNL (EVV)	HS 1	Twy G and Rwy 18-36, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering Twy G.
	HS 2	Rwy 27 incursion risk at Twy A, ATC clearance required for taxi on rwy.
FORT WAYNE FORT WAYNE INTL (FWA)	HS 1	Short taxi distance from West Ramp when departing C2 int. Acft tend to miss turn onto TWY C from West Ramp.
LAFAYETTE PURDUE UNIVERSITY (LAF)	HS 1	Complex int at Twy B, Twy B3, Twy C in close proximity of rwys.
MICHIGAN		
ANN ARBOR ANN ARBOR MUNI (ARB)	HS 1	Intersection of Twy A1/A not visible from the ctl twr.
	HS 2	Twy A crosses turf Rwy 12-30.
DETROIT DETROIT METRO WAYNE CO (DTW)	HS 1	Int of Rwy 09L and Rwy 03L-21R. Acft taxiing east on Rwy 09L maint vigilance illuminated stop bar at Rwy 3L-21R hold short marking. Note: When Rwy 09L-27R is being used as a twy btn Rwy 04R-22L and 03L-21R, green cntrln lgts and stop bars are illuminated.
FLINT BISHOP INTL (FNT)	HS 1	Twy C crosses Rwy 18-36. Manage taxi speed and be prepared to hold short.
	HS 2	Acft exiting the de-icing pad are on Twy C and in very close proximity to Rwy 09-27.
GRAND RAPIDS GERALD R FORD INTL (GRR)	HS 1	Twy A, Twy M, High Speed Twy A2 near Rwy 08R-26L – risk of pilot confusion on wide pavement resulting in rwy incursions.
	HS 2	Twy A, Twy F, Twy B, High Speed Twy A1 near Rwy 08R-26L – risk of pilot confusion on wide pavement resulting in rwy incursions.
	HS 3	Twy B, Twy V, High Speed Twy B4 near Rwy 17-35 – risk of pilot confusion resulting in rwy incursions.
KALAMAZOO KALAMAZOO/BATTLE CREEK INTL (AZO)	HS 1	Complex int of Rwy 05, Twy A and Twy D.
LANSING CAPITAL REGION INTL (LAN)	HS 1	Twy C int Twy B; pilots miss the rgt turn onto Twy B and enter Rwy 10R-28L.
	HS 2	Twy M int Twy B, short taxi dist fr Trml Ramp to Rwy 10R-28L.
MUSKEGON MUSKEGON CO (MKG)	HS 1	Twy A at Rwy 14-32 hold short line is non-standard.
OHIO		
AKRON AKRON-CANTON RGNL (CAK)	HS 1	ILS hold short line close proximity to transient parking ramp.
	HS 2	Twy C rwy holding position marking east of Rwy 01-19 used to hold acft for both Rwy 01-19 and Rwy 05-23.
	HS 3	Hold short lines on Twy K between Rwy 01-19 and Rwy 05-23 are nearly co-located.

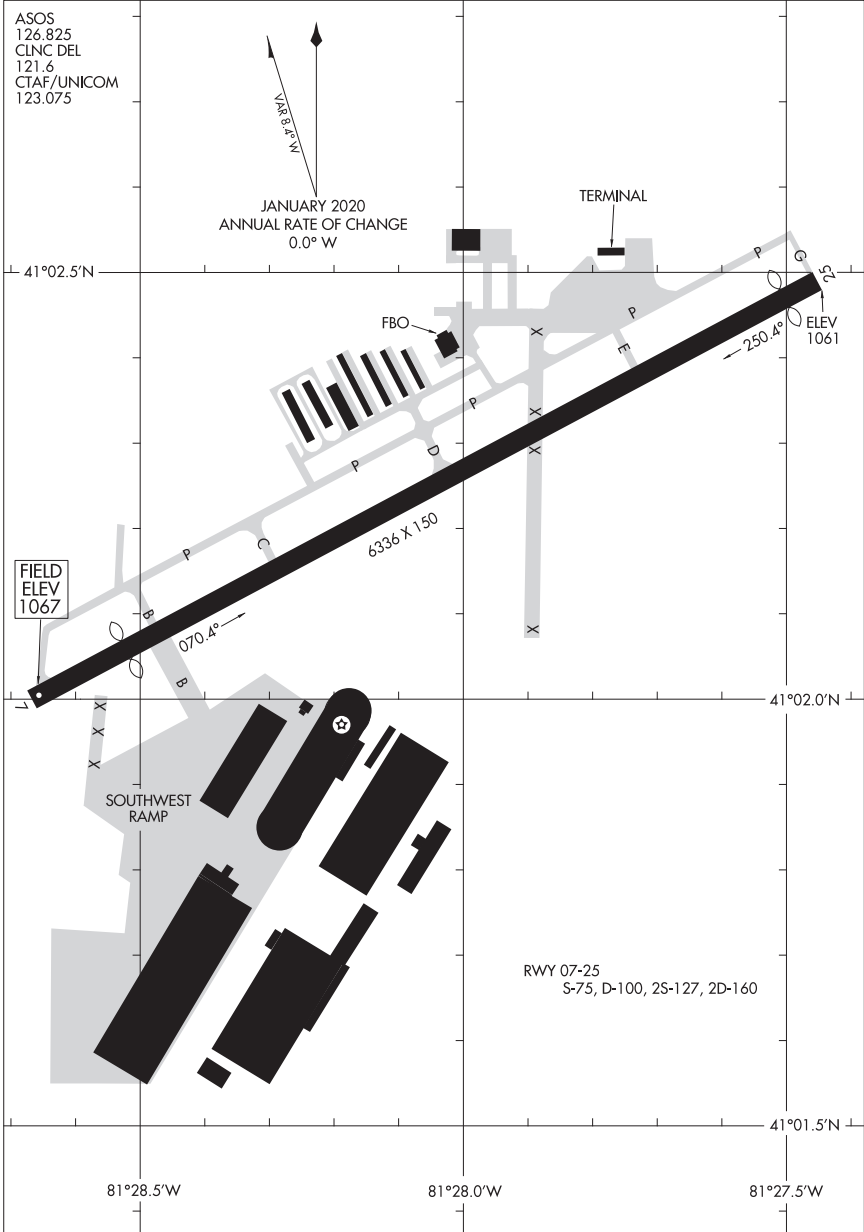
CITY/AIRPORT	HOT SPOT	DESCRIPTION
CINCINNATI CINCINNATI MUNI/LUNKEN FLD (LUK)	HS 1	Tfc on Twy C must receive ATC clearance to cross Rwy 03L apch area.
	HS 2	Twy A crosses Rwy 21R. Be prepared to hold short.
	HS 3	Departing acft on Rwy 21L can expect to hold short of Rwy 25 on Twy A.
	HS 4	Pedestrians and vehicles prohibited from departing terminal ramp area without ATC authorization.
CLEVELAND BURKE LAKEFRONT (BKL)	HS 1	Short taxi distance from the ramp to Rwy 06 L/R. Twy Alpha sign often missed.
COLUMBUS JOHN GLENN COLUMBUS INTL (CMH)	HS 1	Area not visible from the twr.
COLUMBUS OHIO STATE UNIVERSITY (OSU)	HS 1	When holding short of Rwy 09R, acft must clear Rwy 05 hold short line on Twy A, west of Rwy 05.
	HS 2	Rwy 05 hold short line close proximity to west ramp on Twy A.
	HS 3	Wrong rwy departure risk: Unusual geometry at Rwy 27R, Rwy 23, Twy C and Twy F int; Rwy 23 thld is beyond Rwy 27R on Twy F southbound.
DAYTON JAMES M COX DAYTON INTL (DAY)	HS 1	Acft taxiing from Twy D, with a left turn on Rwy 36, destined for Twy H sometimes miss the turn onto Twy H and enter Rwy 06R-24L.
YOUNGSTOWN/WARREN YOUNGSTOWN/WARREN RGNL (YNG)	HS 1	Twy H and Rwy 05-23, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering Twy H.
WISCONSIN		
APPLETON APPLETON INTL (ATW)	HS 1	Twy A, Twy B and Twy C meet in a complex intersection.
JANESVILLE SOUTHERN WISCONSIN RGNL (JVL)	HS 1	Rwy 32 and Rwy 36 apch ends are closely aligned and may be confused when lining up for departure.
KENOSHA KENOSHA RGNL (ENW)	HS 1	Int of Twy D and Twy E is very close to a hi concentration of rwy crossings and is not visible fr the twr.
LA CROSSE LA CROSSE RGNL (LSE)	HS 1	Rwy 36 hold position set back on Twy C.
	HS 2	Twy A3, Twy A and Twy B complex int in close proximity to rwys.
MADISON DANE CO RGNL/TRUAX FLD (MSN)	HS 1	Closely aligned Rwys – Rwy 36 and Rwy 03 at Twy A4.
	HS 2	Pilots exiting Rwy 18-36 on Twy C sometimes miss the hold short for Rwy 03-21.
MOSINEE CENTRAL WISCONSIN (CWA)	HS 1	Wrong rwy departure risk. Rwy 08 departure sometime confuse Rwy 17 as the departing rwy. Rwy 17-35 used to taxi to full len on Rwy 08.
OSHKOSH WITTMAN RGNL (OSH)	HS 1	Int of Twy C1, Twy C, Twy A, Twy A1, Twy J.

22251

AIRPORT DIAGRAM

AL-6 (FAA)

AKRON FULTON INTL (AKR)
AKRON, OHIO



AIRPORT DIAGRAM

22251

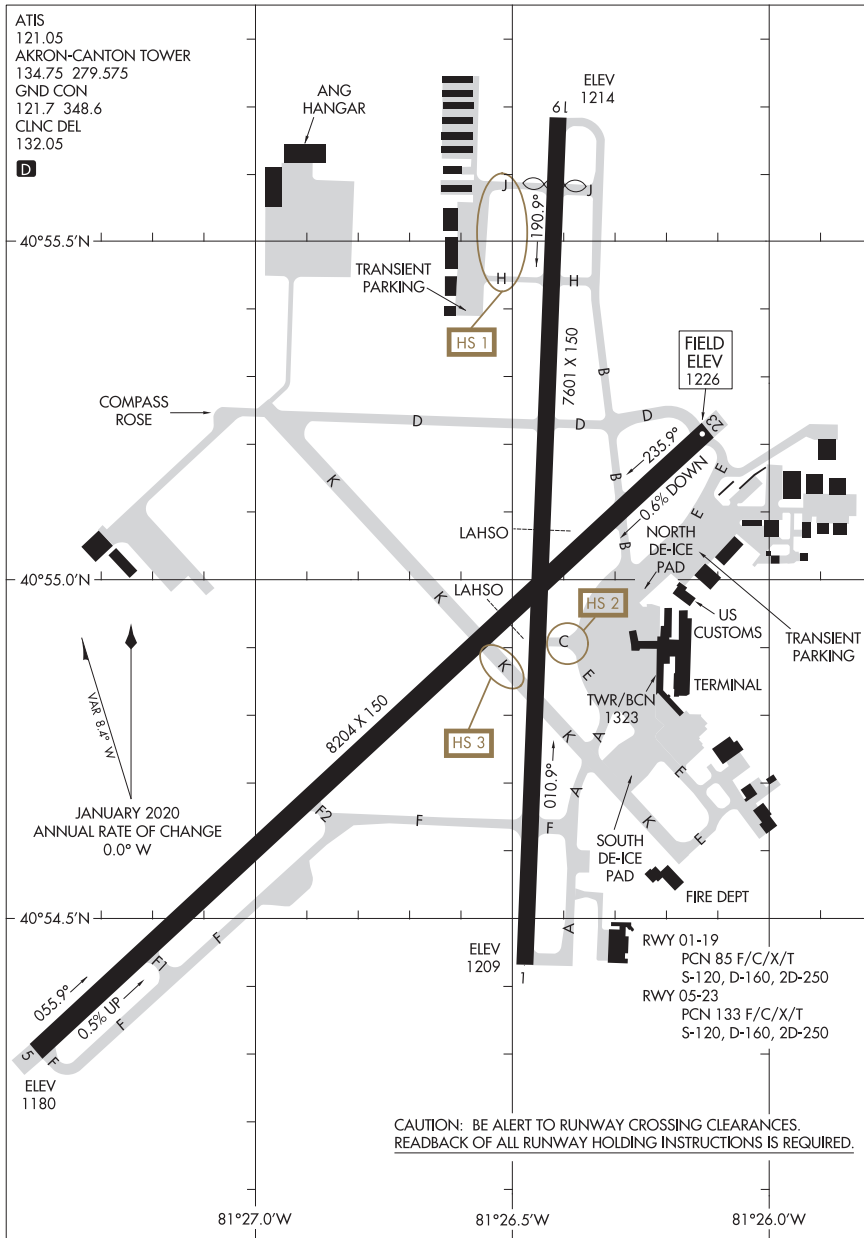
AKRON, OHIO
AKRON FULTON INTL (AKR)

22139

AIRPORT DIAGRAM

AL-638 (FAA)

AKRON-CANTON RGNL (CAK)
AKRON, OHIO



AIRPORT DIAGRAM

22139

AKRON, OHIO
AKRON-CANTON RGNL (CAK)

22251

AIRPORT DIAGRAM

AL-718 (FAA)

ALPENA COUNTY RGNL (A.P.N)

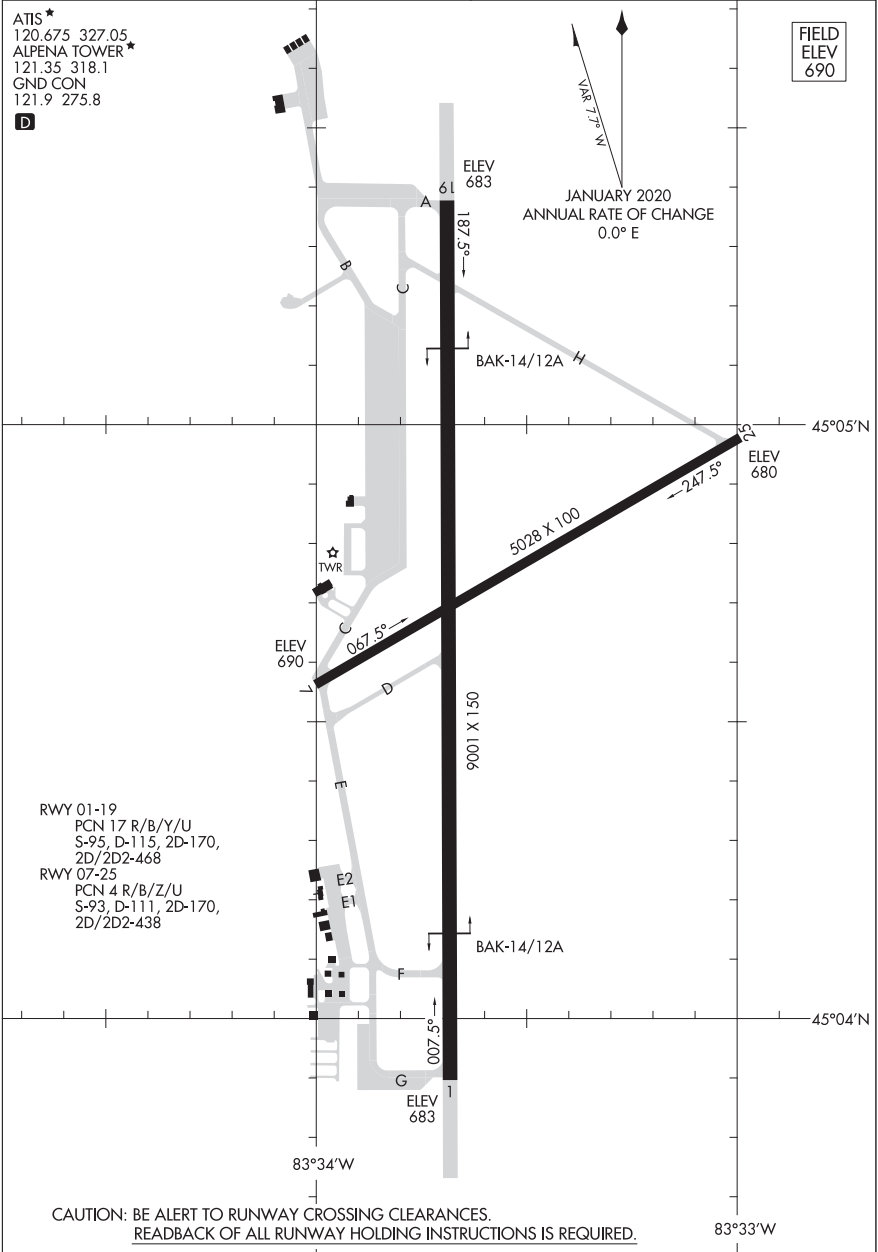
ALPENA, MICHIGAN

ATIS ★
 120.675 327.05
 ALPENA TOWER ★
 121.35 318.1
 GND CON
 121.9 275.8

D

FIELD
 ELEV
 690

VAR 7.7° W
 JANUARY 2020
 ANNUAL RATE OF CHANGE
 0.0° E



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

22251

ALPENA, MICHIGAN

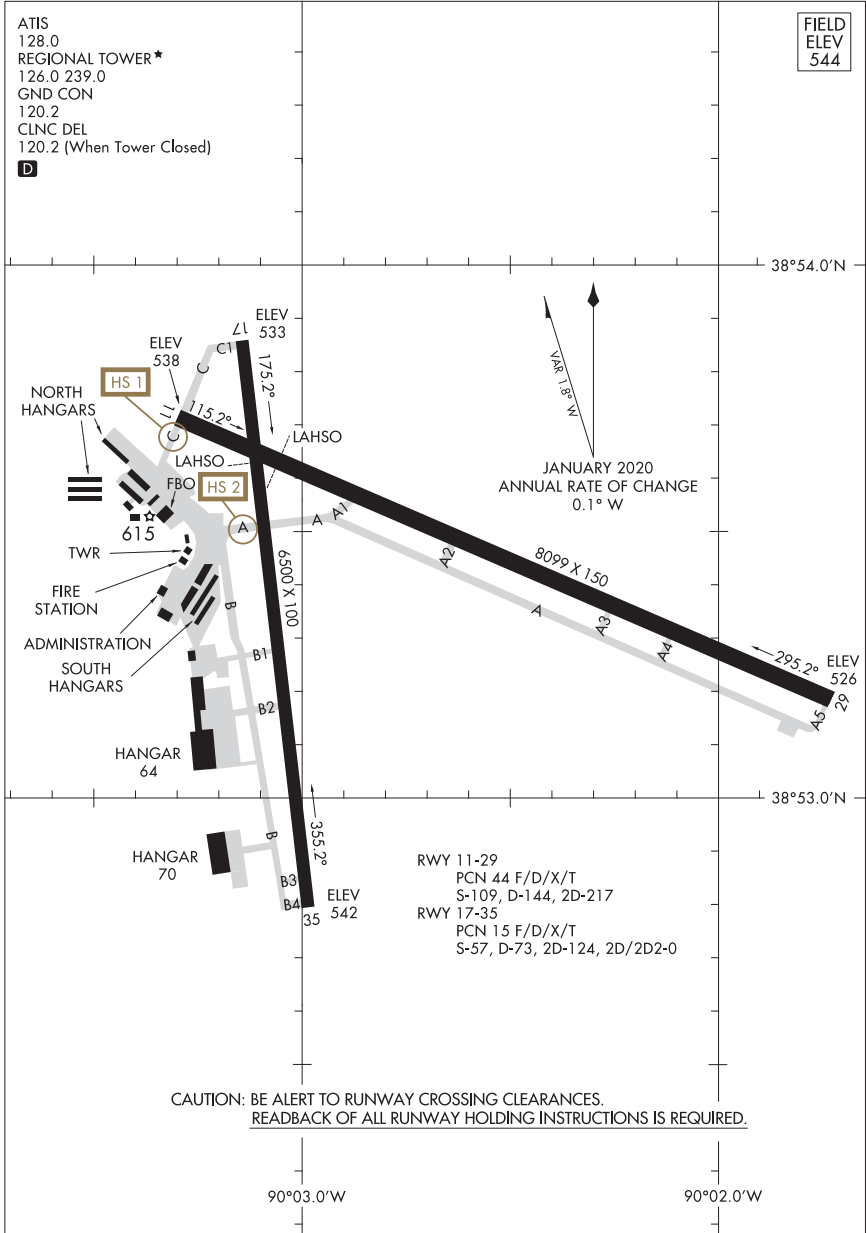
ALPENA COUNTY RGNL (A.P.N)

24025

AIRPORT DIAGRAM

AL-5178 (FAA)

ST LOUIS RGNL (ALN)
ALTON/ST. LOUIS, ILLINOIS



AIRPORT DIAGRAM

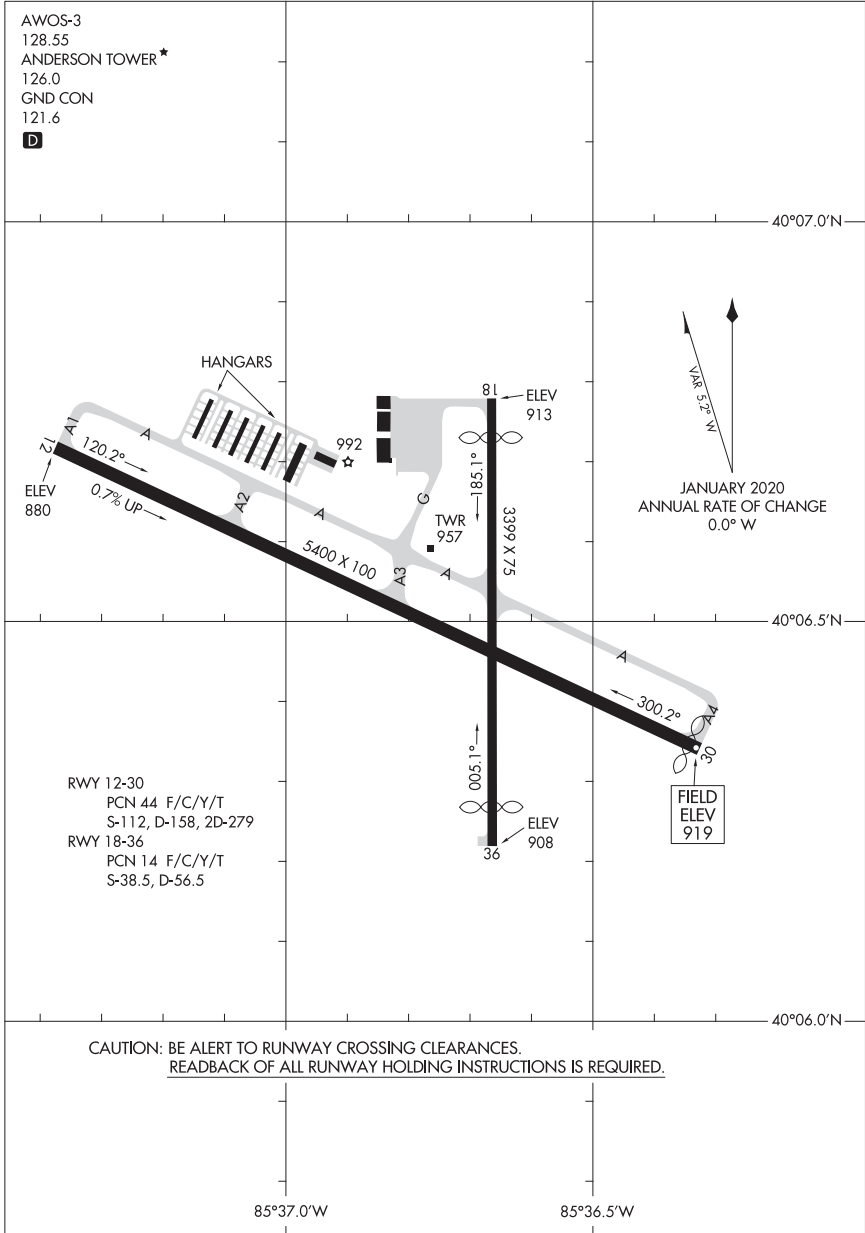
24025

ALTON/ST. LOUIS, ILLINOIS
ST LOUIS RGNL (ALN)

23054

AIRPORT DIAGRAM

ANDERSON MUNI-DARLINGTON FLD (A1D)
AL-5133 (FAA) ANDERSON, INDIANA



AIRPORT DIAGRAM

23054

ANDERSON, INDIANA
ANDERSON MUNI-DARLINGTON FLD (A1D)

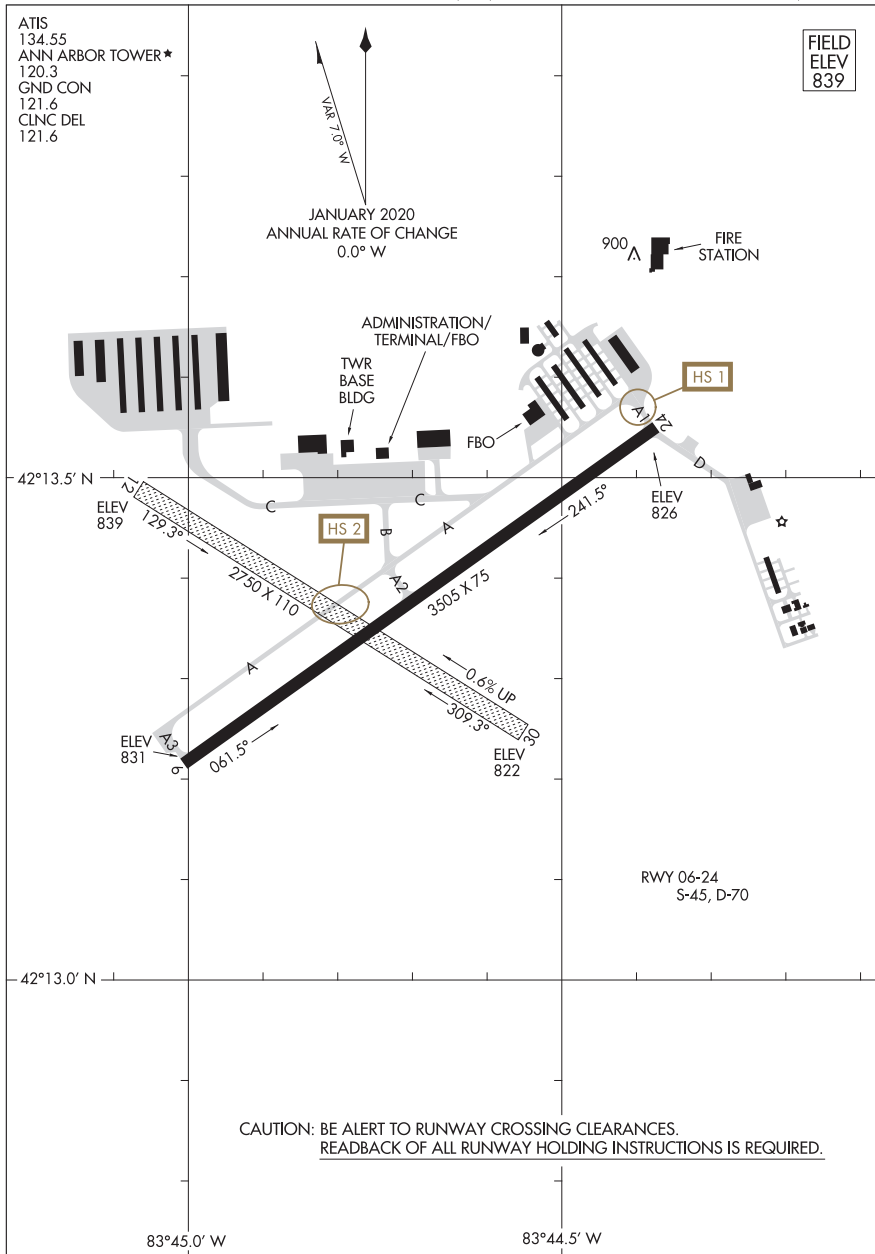
20086

ANN ARBOR MUNI (ARB)

AIRPORT DIAGRAM

AL-5506 (FAA)

ANN ARBOR, MICHIGAN



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

20086

ANN ARBOR, MICHIGAN
ANN ARBOR MUNI (ARB)

22139

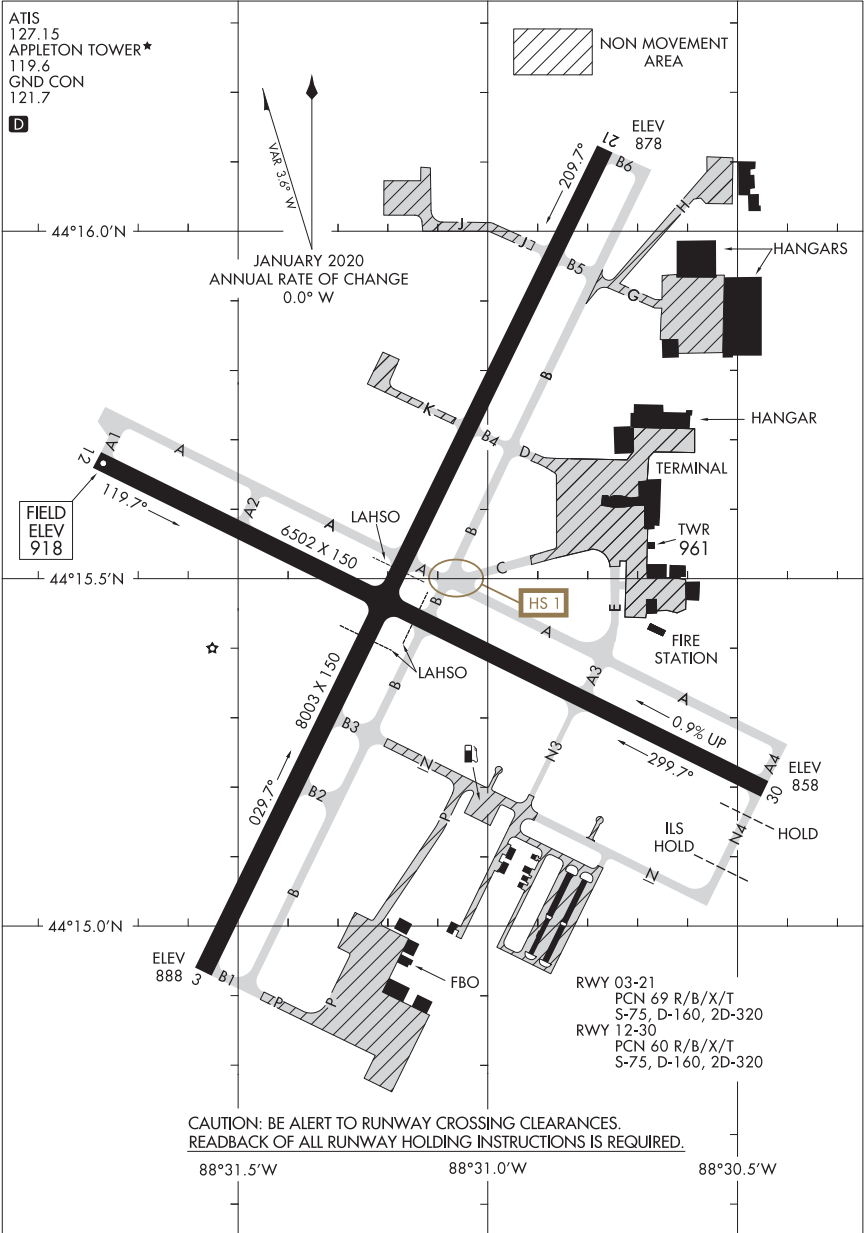
AIRPORT DIAGRAM

AL-5216 (FAA)

APPLETON INTL (ATW)
APPLETON, WISCONSIN

ATIS
127.15
APPLETON TOWER*
119.6
GND CON
121.7

D



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REDBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

RWY 03-21
PCN 69 R/B/X/T
S-75, D-160, 2D-320
RWY 12-30
PCN 60 R/B/X/T
S-75, D-160, 2D-320

AIRPORT DIAGRAM

22139

APPLETON, WISCONSIN
APPLETON INTL (ATW)

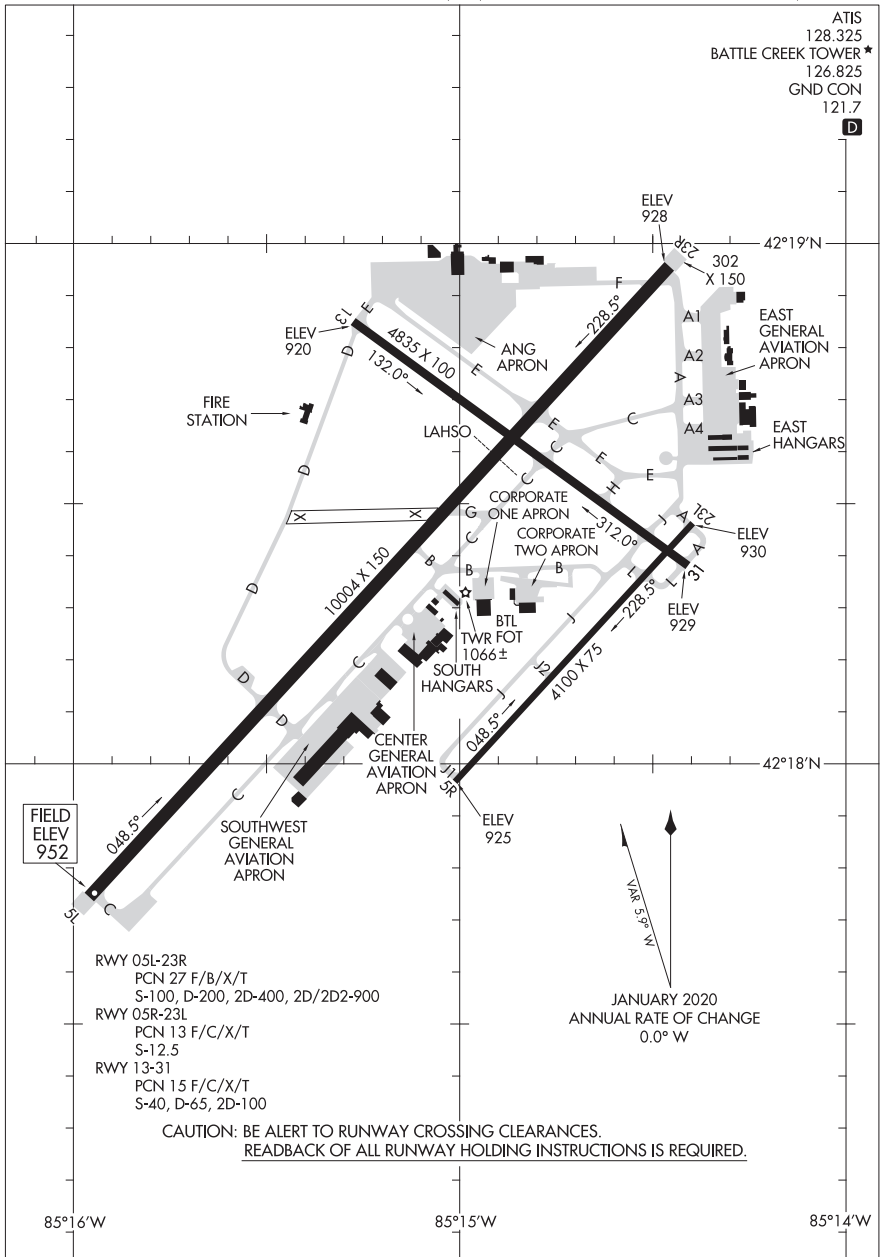
23334

AIRPORT DIAGRAM

BATTLE CREEK EXEC AT KELLOGG FLD (BTL)

AL-41 (FAA)

BATTLE CREEK, MICHIGAN



AIRPORT DIAGRAM

23334

BATTLE CREEK, MICHIGAN

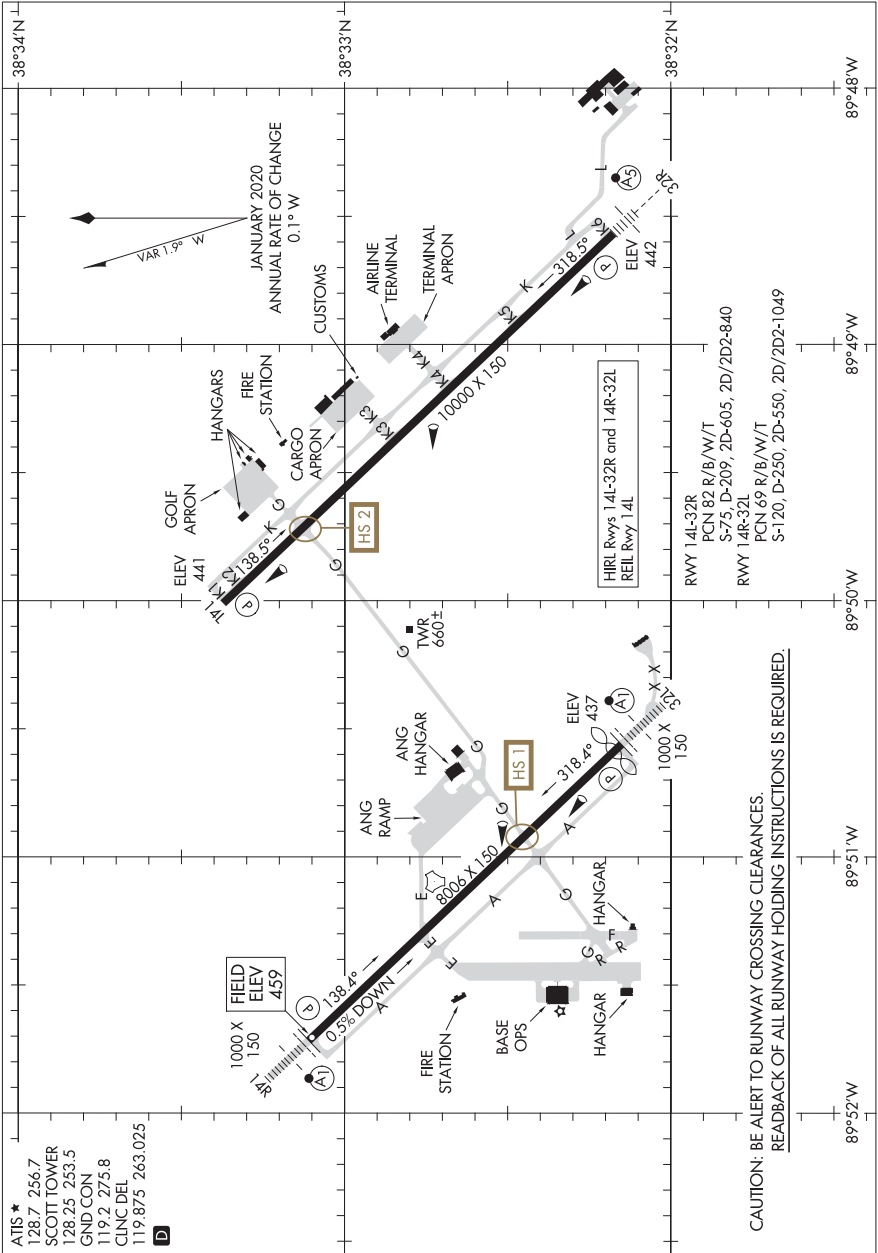
BATTLE CREEK EXEC AT KELLOGG FLD (BTL)

23334

AIRPORT DIAGRAM

AL-46 (FAA)

SCOTT AFB/MIDAMERICA ST LOUIS (B.L.V)
BELLEVILLE, ILLINOIS



**CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REARBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.**

AIRPORT DIAGRAM

23334

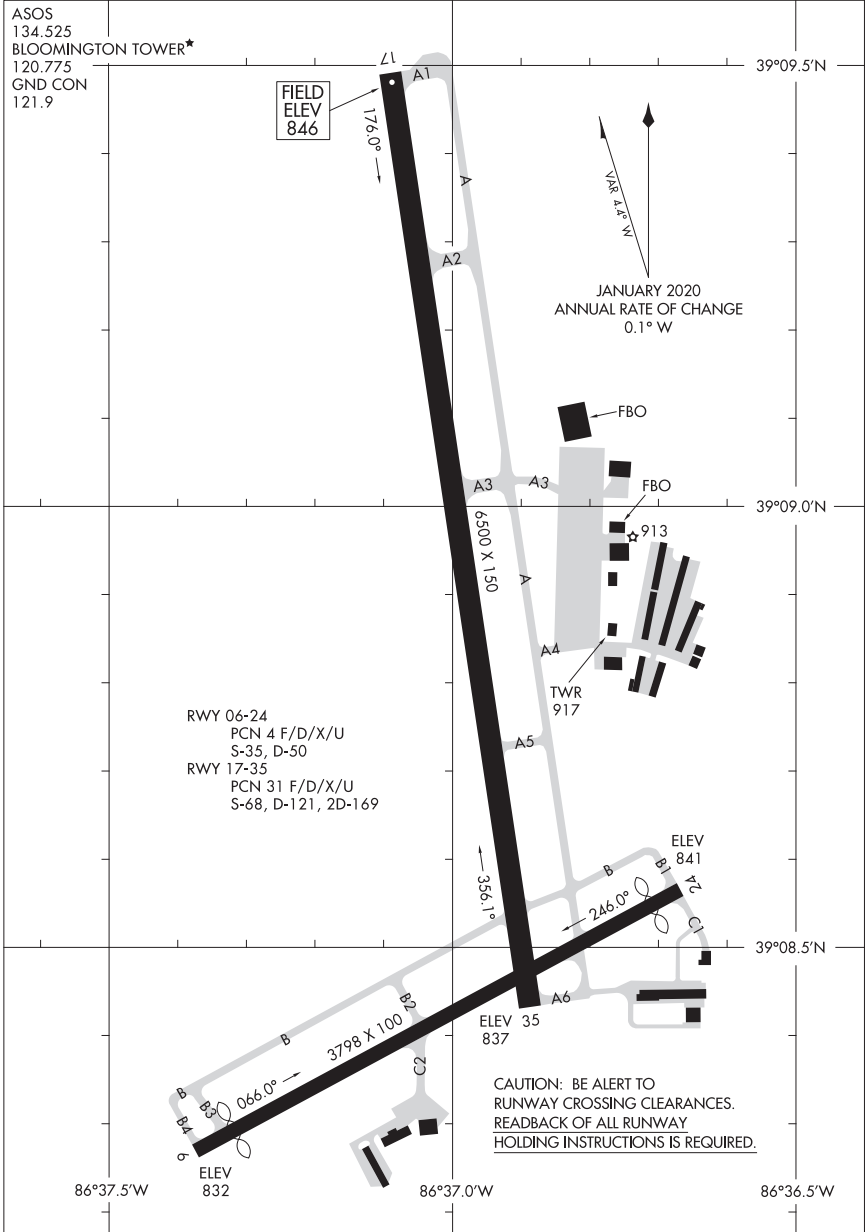
BELLEVILLE, ILLINOIS
SCOTT AFB/MIDAMERICA ST LOUIS (B.L.V)

22307

AIRPORT DIAGRAM

AL-5168 (FAA)

MONROE COUNTY (BMG)
BLOOMINGTON, INDIANA



AIRPORT DIAGRAM

22307

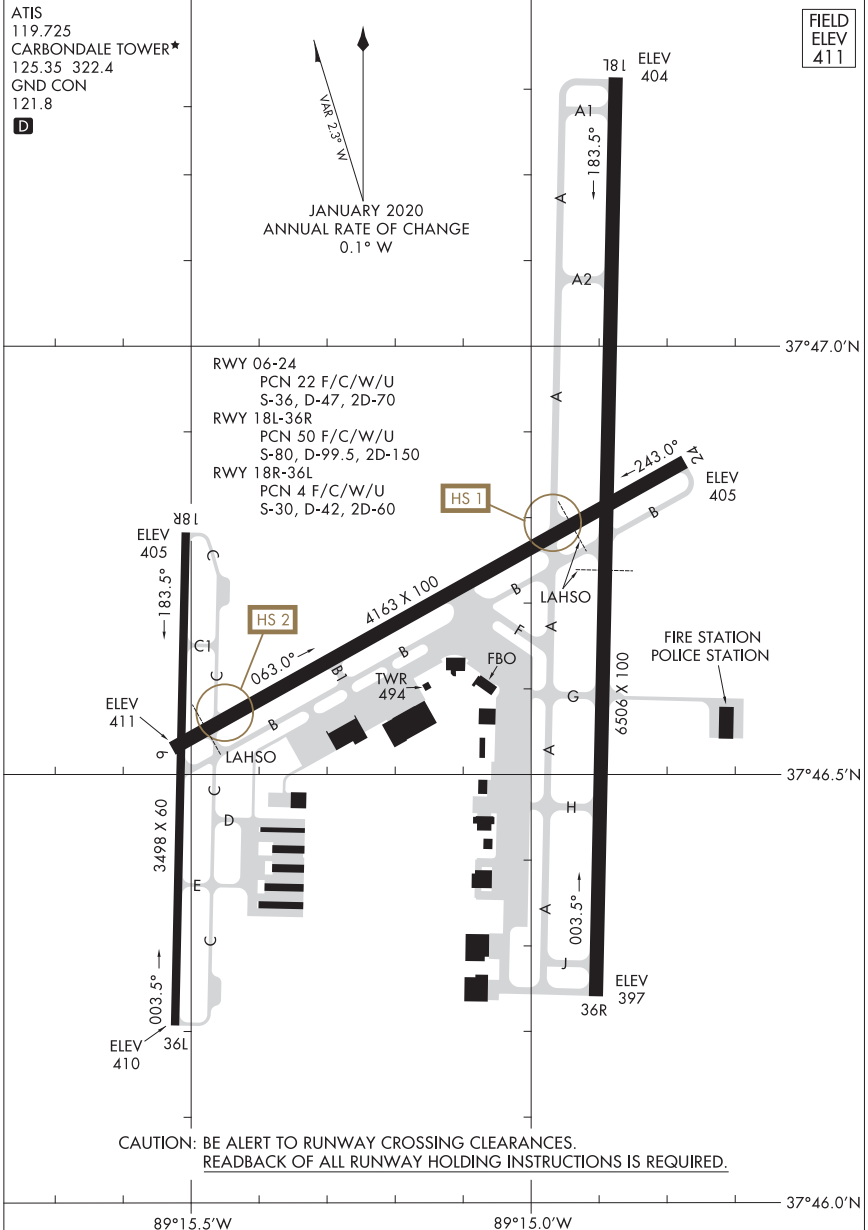
BLOOMINGTON, INDIANA
MONROE COUNTY (BMG)

22083

AIRPORT DIAGRAM

AL-5091 (FAA)

SOUTHERN ILLINOIS (MDH)
CARBONDALE-MURPHYSBORO, ILLINOIS



AIRPORT DIAGRAM

22083

CARBONDALE-MURPHYSBORO, ILLINOIS
SOUTHERN ILLINOIS (MDH)

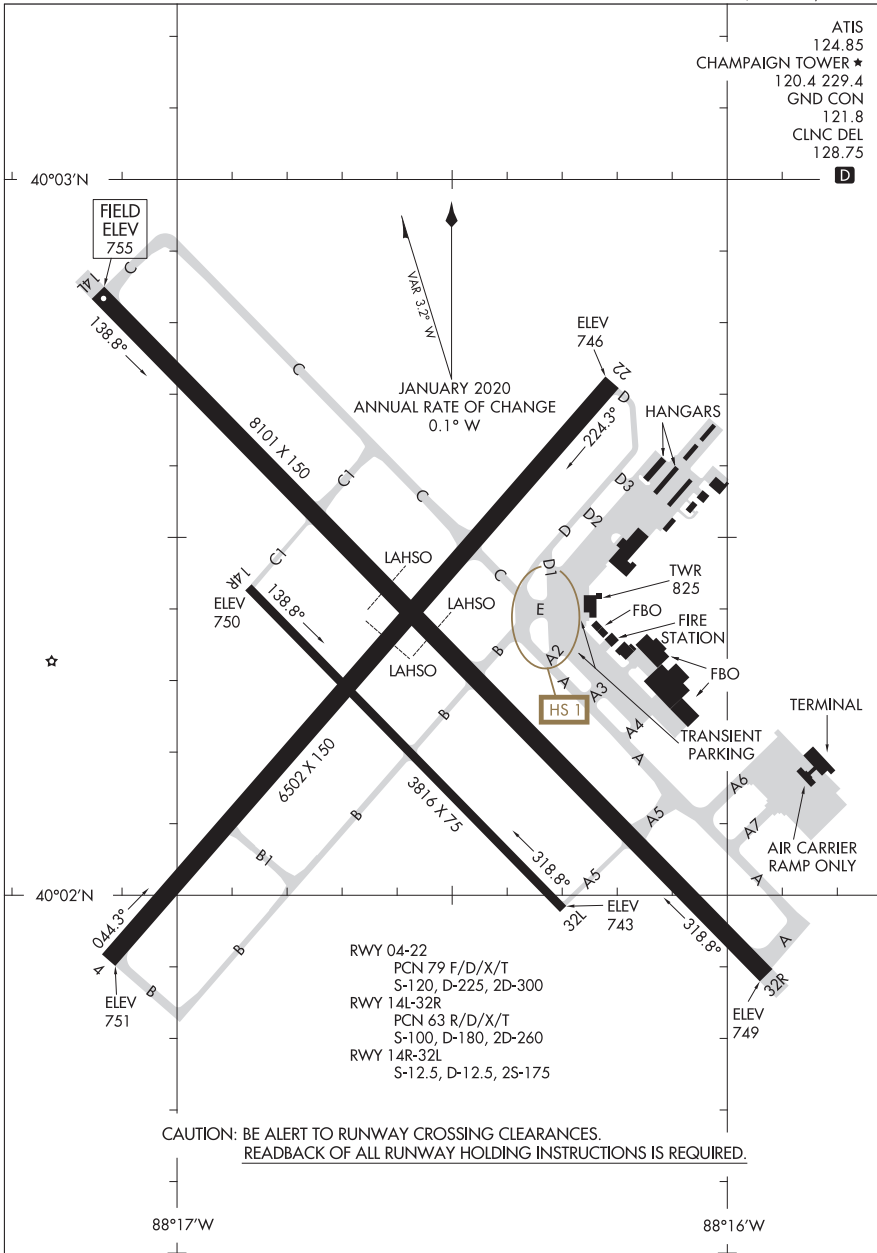
22027

AIRPORT DIAGRAM

AL-709 (FAA)

UNIVERSITY OF ILLINOIS/WILLARD (CMI)

CHAMPAIGN/URBANA, ILLINOIS



AIRPORT DIAGRAM

22027

CHAMPAIGN/URBANA, ILLINOIS

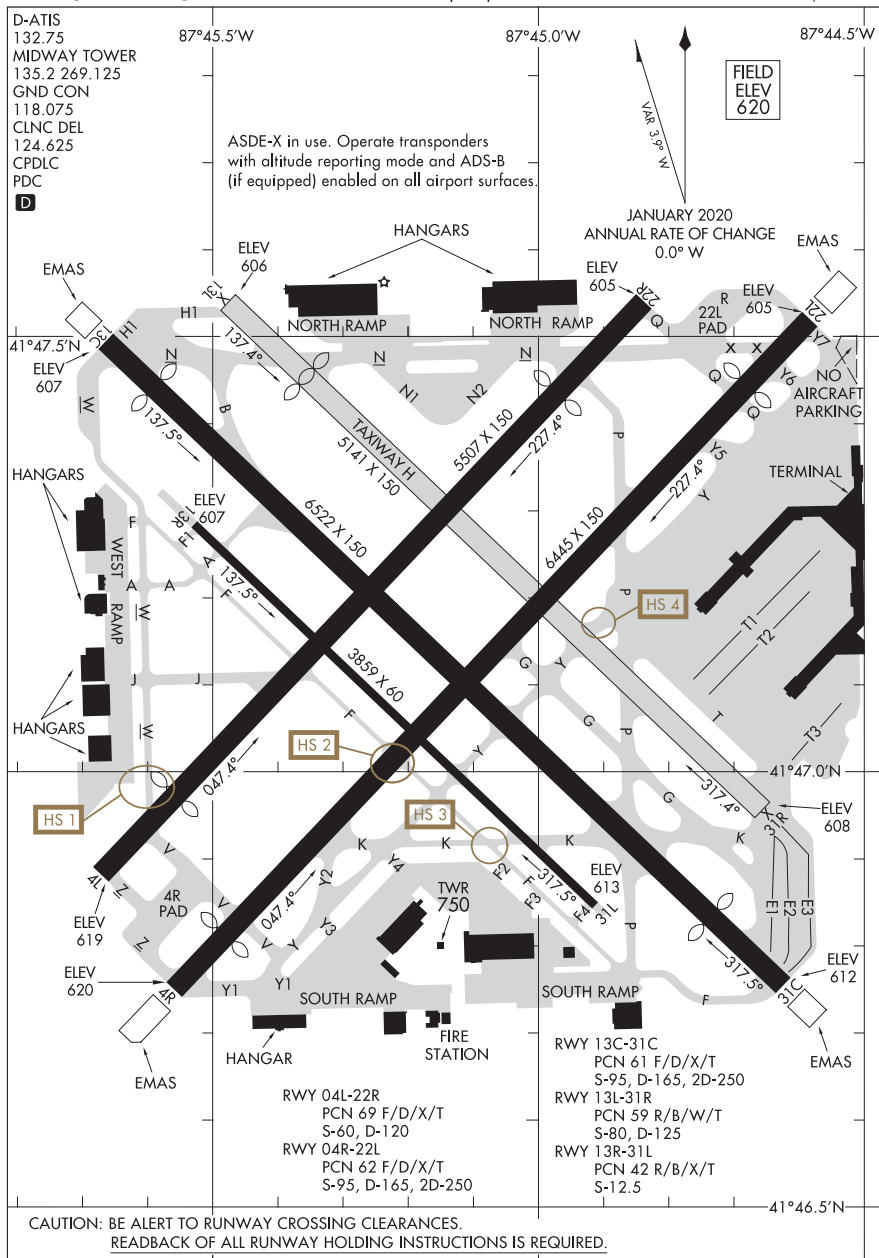
UNIVERSITY OF ILLINOIS/WILLARD (CMI)

23278

AIRPORT DIAGRAM

AL-81 (FAA)

CHICAGO MIDWAY INTL (MDW)
CHICAGO, ILLINOIS



AIRPORT DIAGRAM

23278

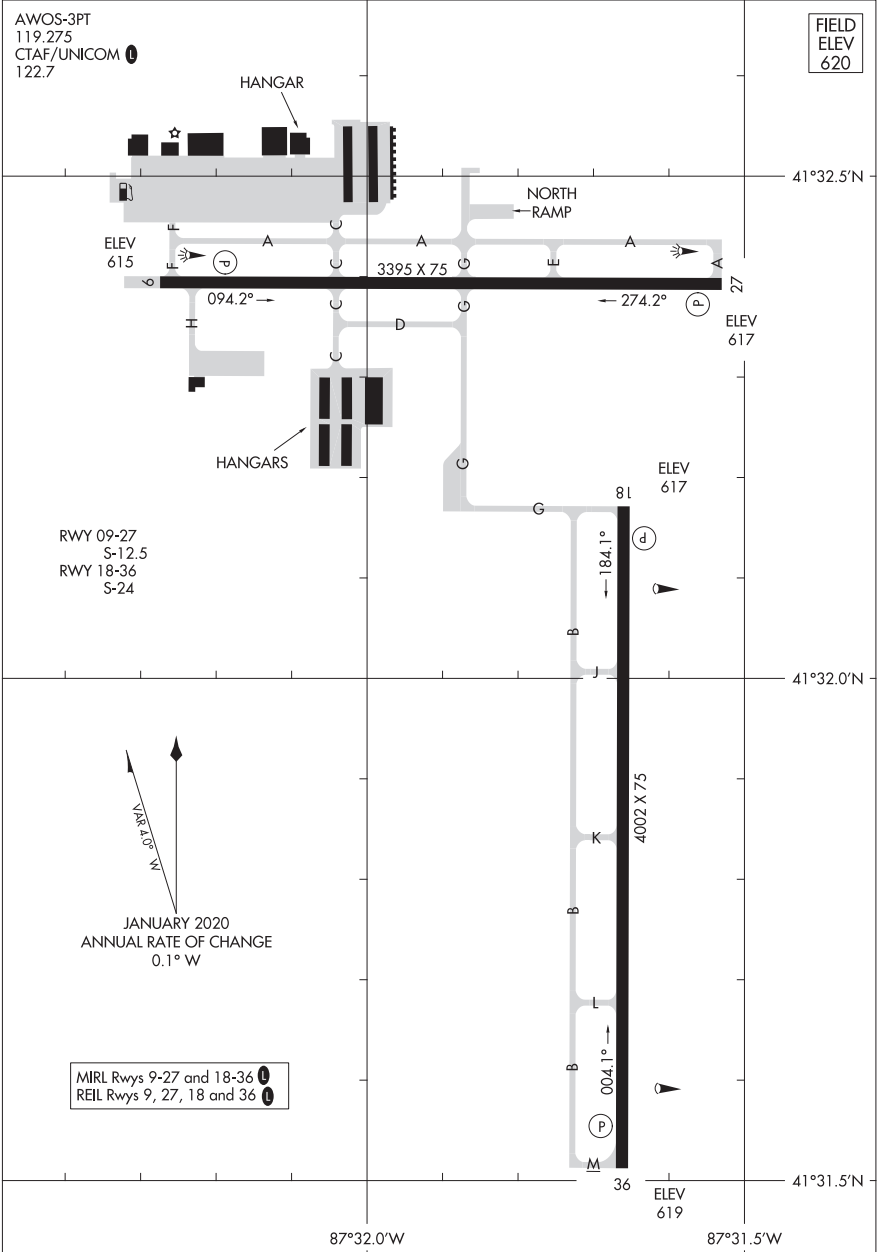
CHICAGO, ILLINOIS
CHICAGO MIDWAY INTL (MDW)

24025

AIRPORT DIAGRAM

AL-5826 (FAA)

LANSING MUNI (IGQ)
CHICAGO, ILLINOIS



AIRPORT DIAGRAM

24025

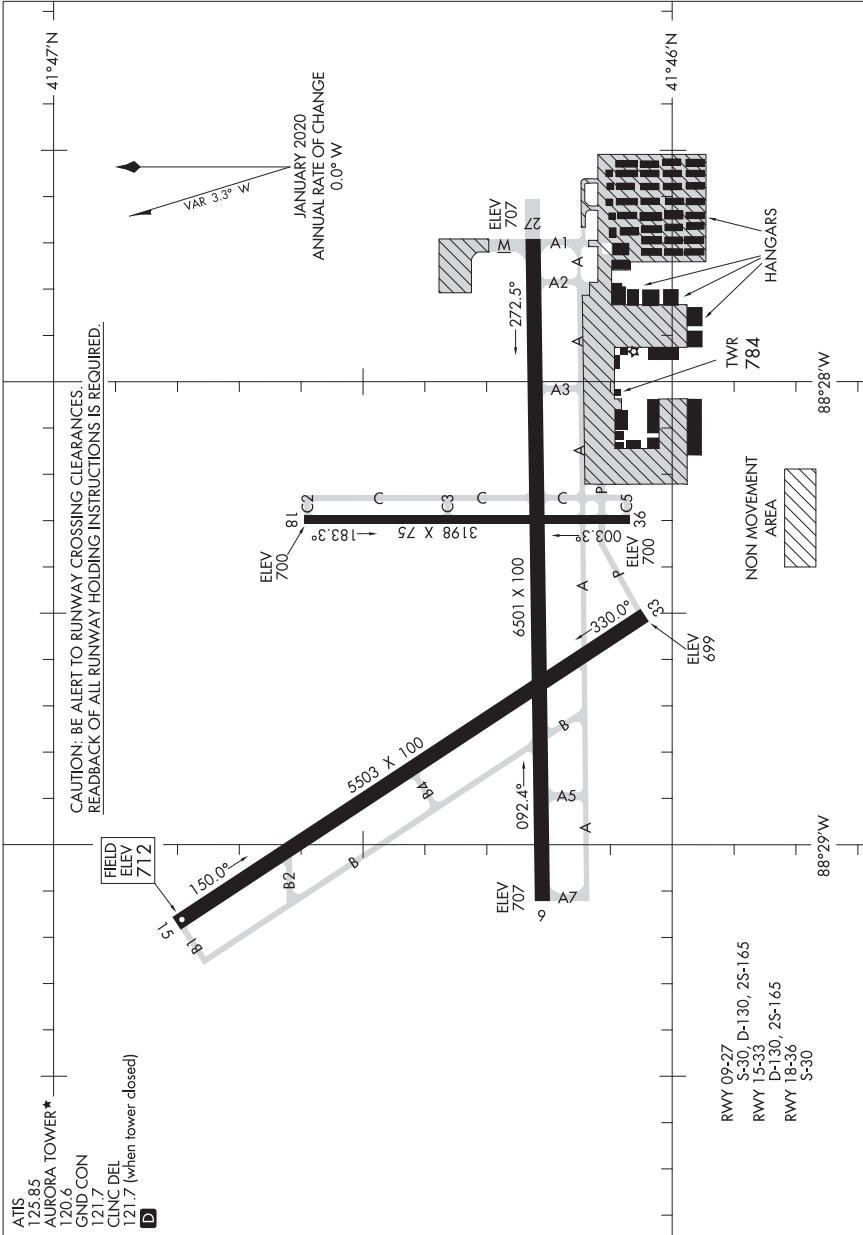
CHICAGO, ILLINOIS
LANSING MUNI (IGQ)

22139

AIRPORT DIAGRAM

AL-5103 (FAA)

AURORA MUNI (ARR)
CHICAGO/AURORA, ILLINOIS



AIRPORT DIAGRAM

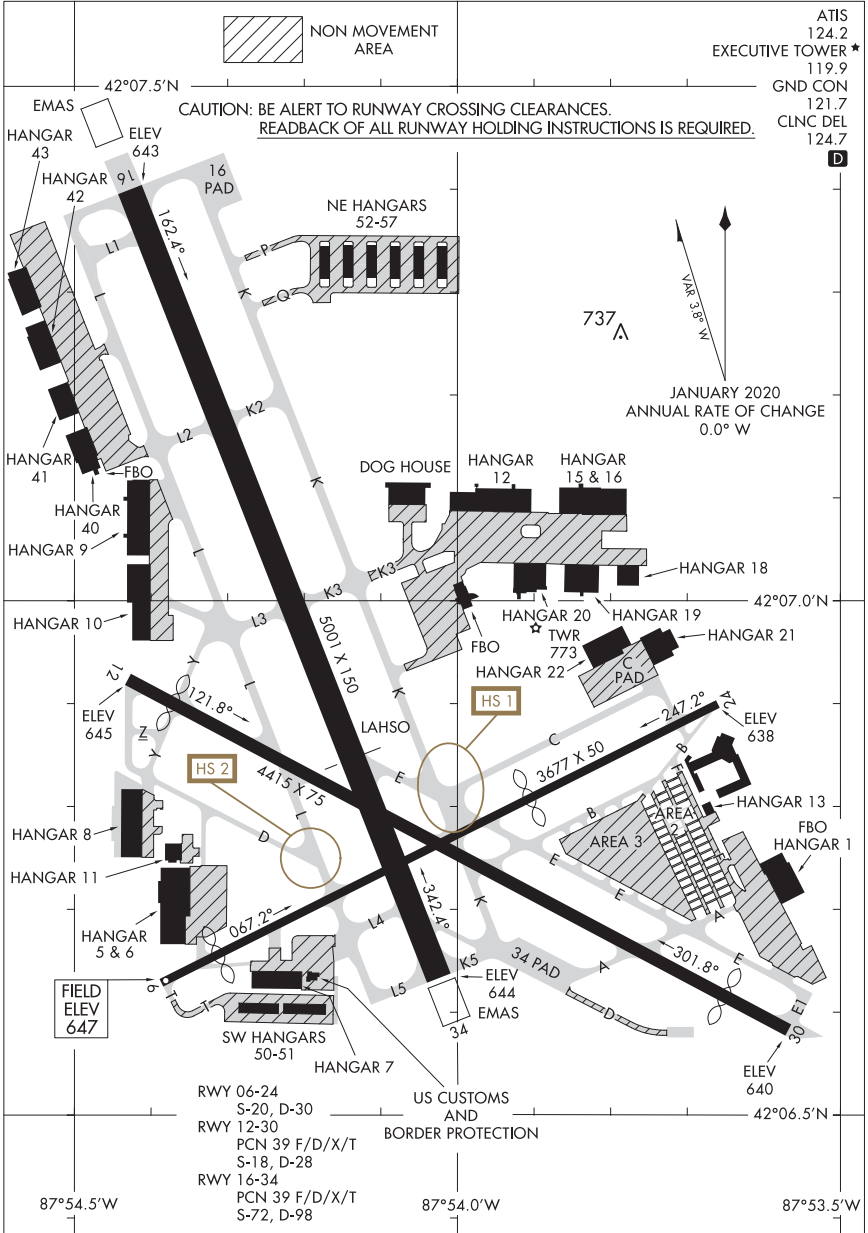
22139

CHICAGO/AURORA, ILLINOIS
AURORA MUNI (ARR)

24025

AIRPORT DIAGRAM

AL-5028 (FAA) CHICAGO/PROSPECT HEIGHTS/WHEELING, ILLINOIS
CHICAGO EXEC (PWK)



AIRPORT DIAGRAM

24025

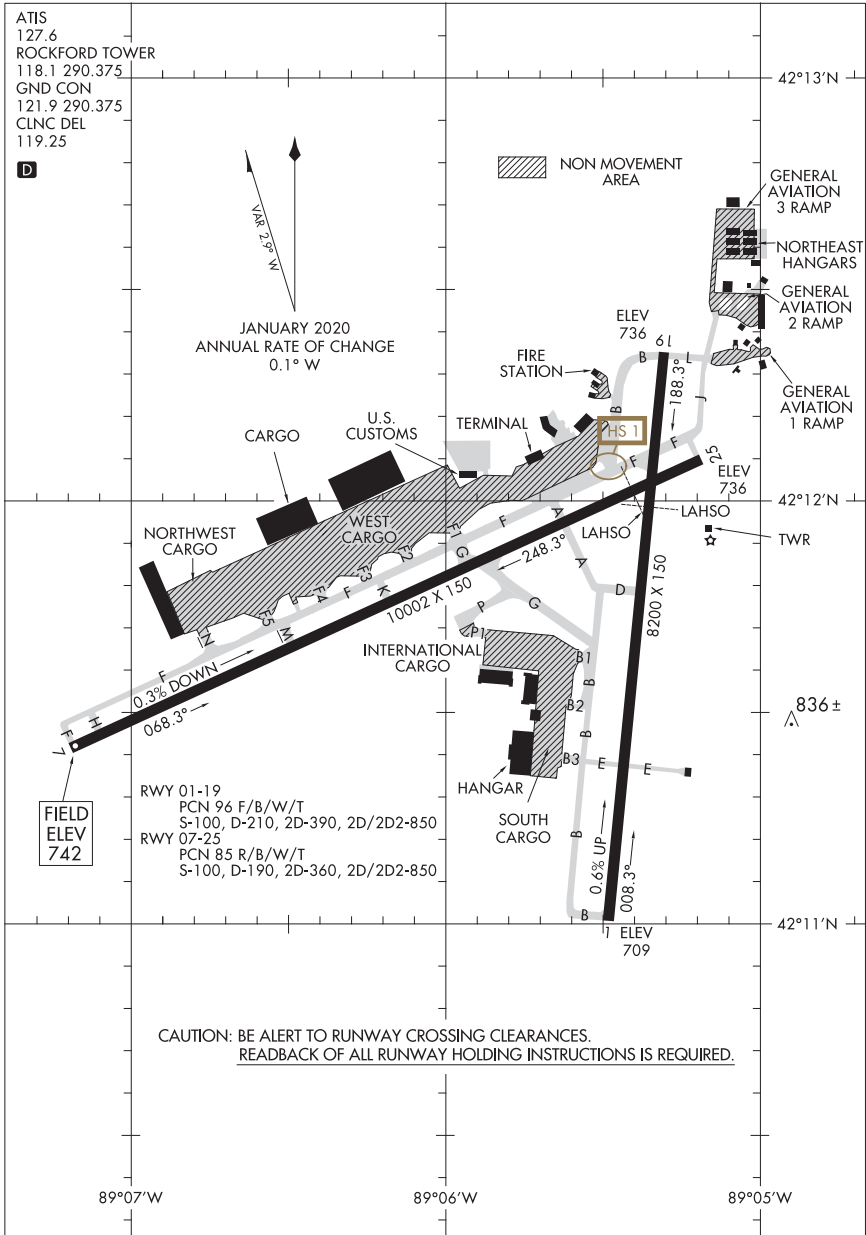
CHICAGO/PROSPECT HEIGHTS/WHEELING, ILLINOIS
CHICAGO EXEC (PWK)

24025

AIRPORT DIAGRAM

AL-954 (FAA)

CHICAGO/ROCKFORD INTL (R.F'D)
CHICAGO/ROCKFORD, ILLINOIS



AIRPORT DIAGRAM

24025

CHICAGO/ROCKFORD, ILLINOIS
CHICAGO/ROCKFORD INTL (R.F'D)

23054

AIRPORT DIAGRAM

AL-6063 (FAA)

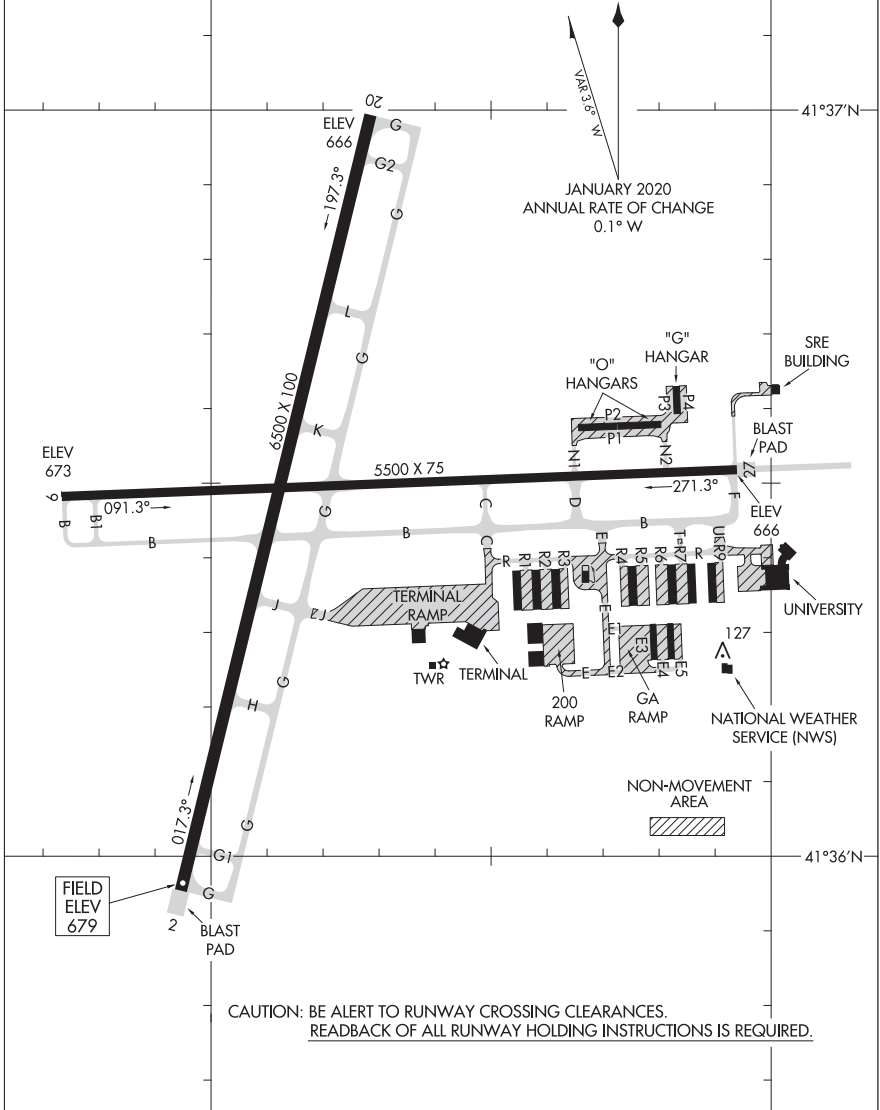
LEWIS UNIVERSITY (L.O.T)
CHICAGO/ROMEOVILLE, ILLINOIS

D-ATIS
126.675
LEWIS TOWER*
134.8
GND CON
120.425

88°06'W

RWY 02-20
D-99
RWY 09-27
S-20, D-75

88°05'W



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

23054

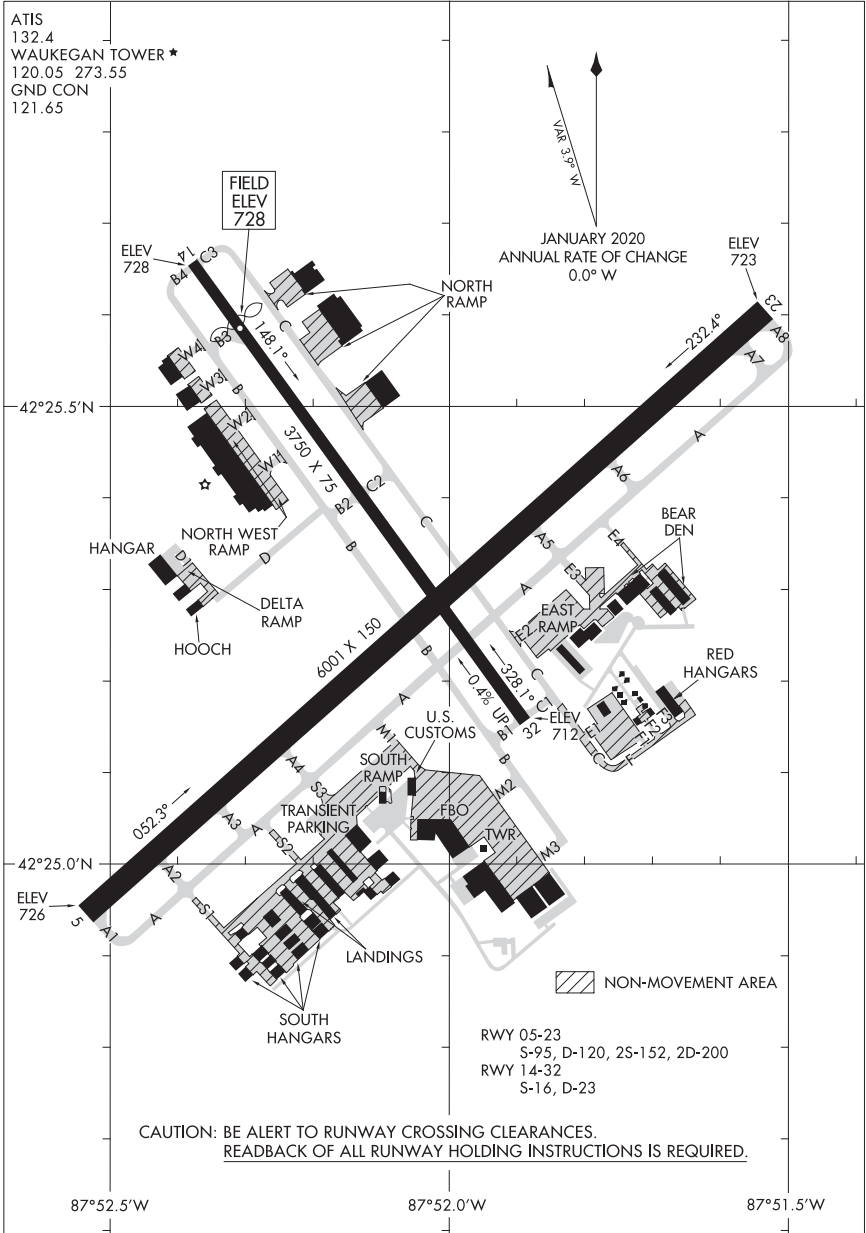
CHICAGO/ROMEOVILLE, ILLINOIS
LEWIS UNIVERSITY (L.O.T)

21280

AIRPORT DIAGRAM

AL-5324 (FAA)

WAUKEGAN NTL (UGN)
CHICAGO/WAUKEGAN, ILLINOIS



AIRPORT DIAGRAM

21280

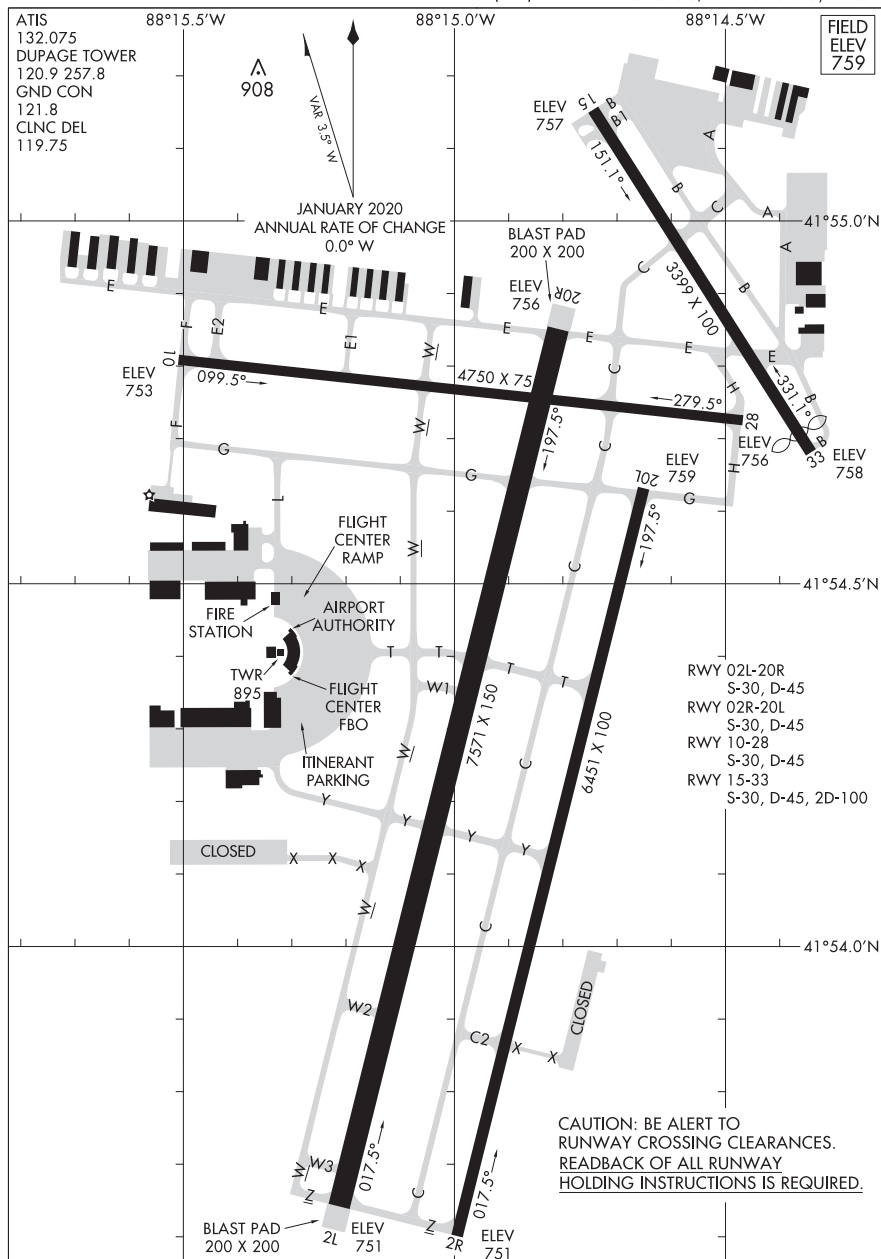
CHICAGO/WAUKEGAN, ILLINOIS
WAUKEGAN NTL (UGN)

21336

AIRPORT DIAGRAM

AL-5104 (FAA)

DUPAGE (DPA)
CHICAGO/WEST CHICAGO, ILLINOIS



AIRPORT DIAGRAM

CHICAGO/WEST CHICAGO, ILLINOIS
DUPAGE (DPA)

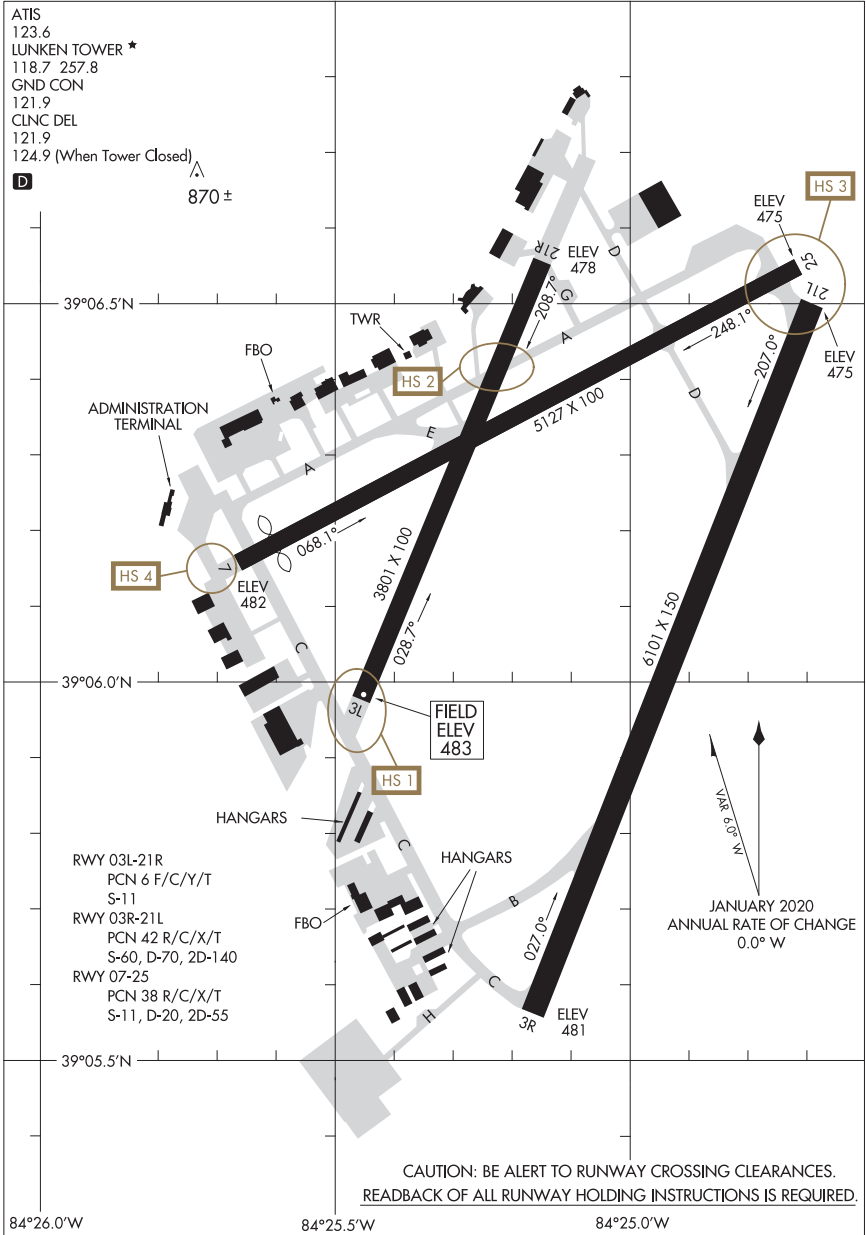
21336

23166

AIRPORT DIAGRAM

AL-83 (FAA)

CINCINNATI MUNI/LUNKEN FLD (LUK)
CINCINNATI, OHIO



AIRPORT DIAGRAM
23166

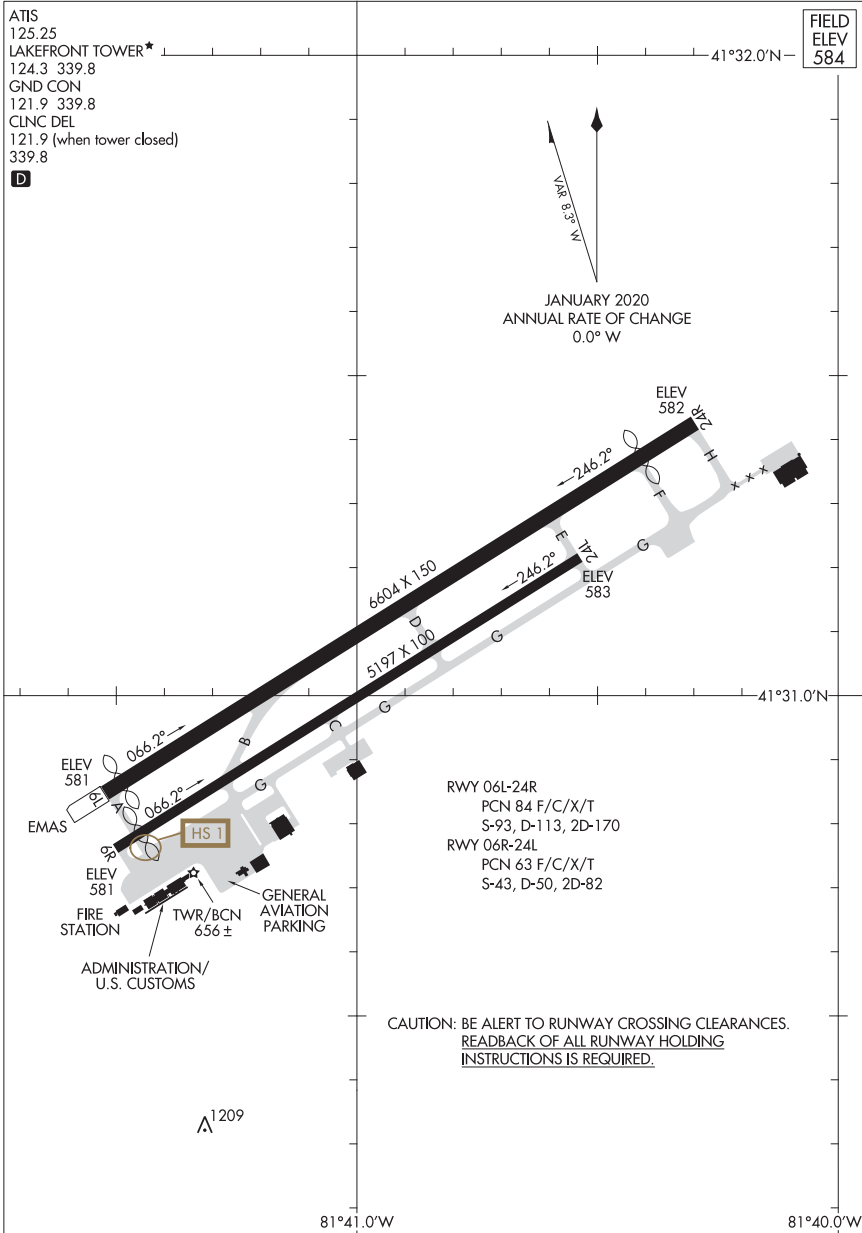
CINCINNATI, OHIO
CINCINNATI MUNI/LUNKEN FLD (LUK)

22307

AIRPORT DIAGRAM

AL-5370 (FAA)

BURKE LAKEFRONT (BKL)
CLEVELAND, OHIO



AIRPORT DIAGRAM

22307

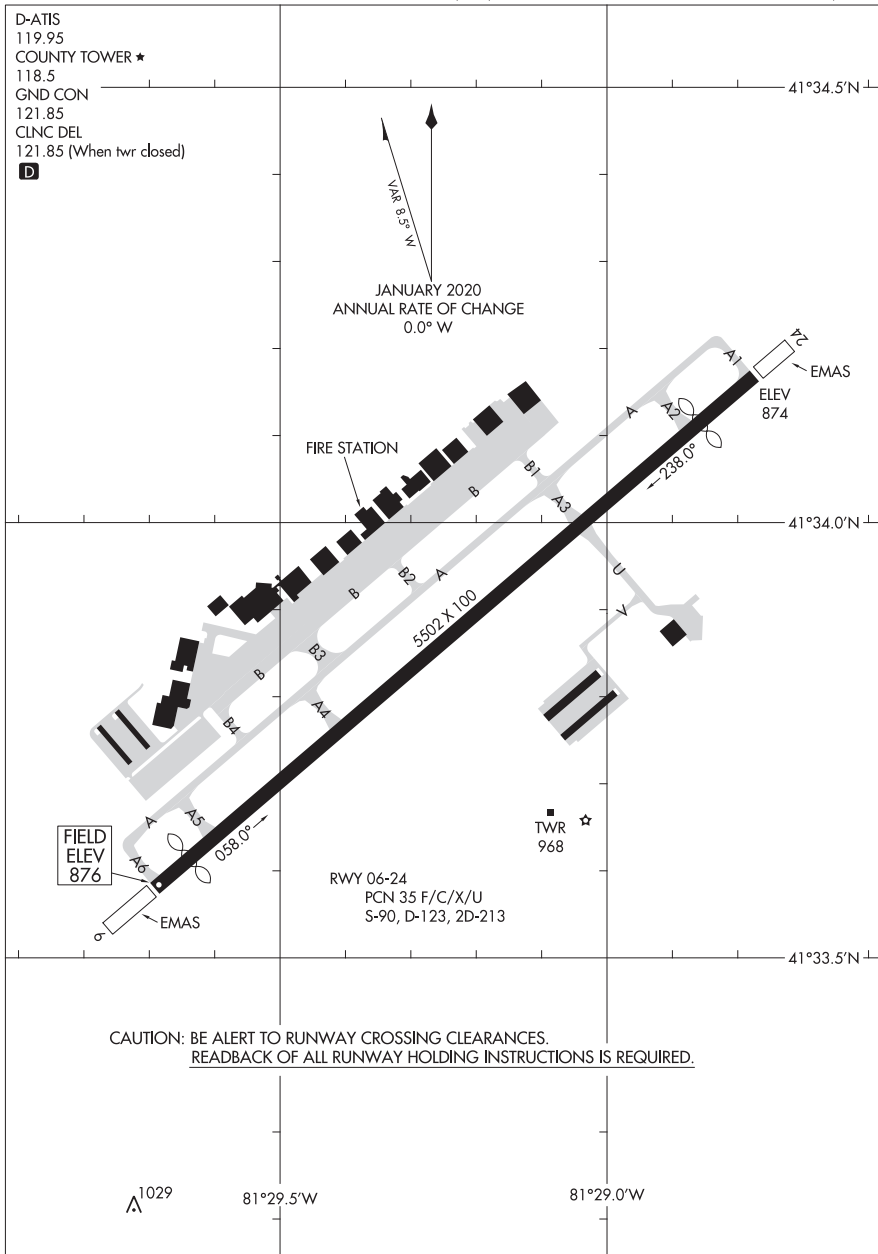
CLEVELAND, OHIO
BURKE LAKEFRONT (BKL)

23278

CUYAHOGA COUNTY (CGF)
CLEVELAND, OHIO

AIRPORT DIAGRAM

AL-5027 (FAA)



AIRPORT DIAGRAM

CLEVELAND, OHIO

23278

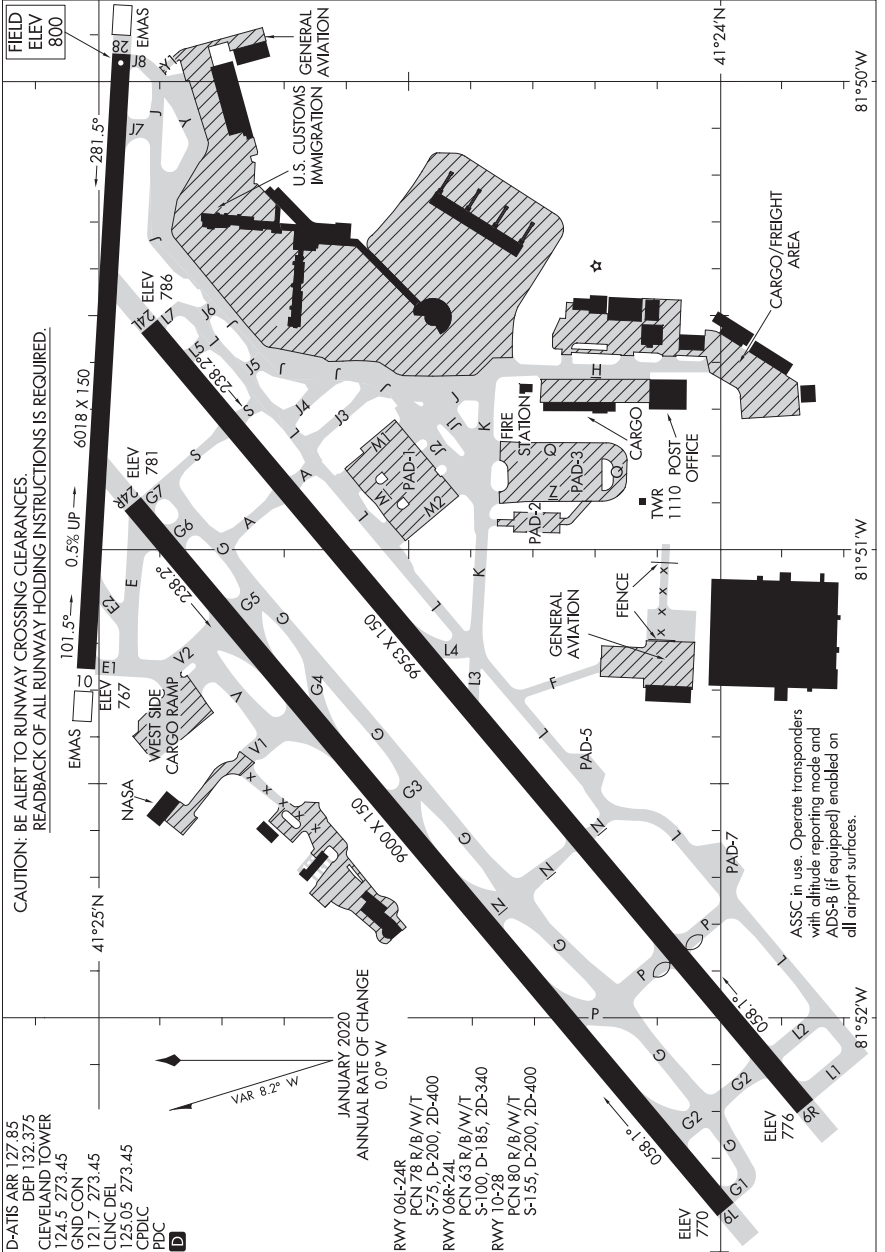
CUYAHOGA COUNTY (CGF)

24025

AIRPORT DIAGRAM

AL-84 (FAA)

CLEVELAND-HOPKINS INTL (CLE)
CLEVELAND, OHIO



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REARBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

ASSC in use. Operate transponders with altitude reporting mode and ADS-B (if equipped) enabled on all airport surfaces.

- D-ATIS ARR 127.85
- DEP 132.375
- CLEVELAND TOWER
- 124.5 273.45
- GND CON
- 121.7 273.45
- CLNC DEL
- 125.05 273.45
- CPDLC
- PDC

JANUARY 2020
ANNUAL RATE OF CHANGE
0.0° W

- RWY 06L-24R
- PCN 78 R/B/W/T
- S-75 D-200, 2D-400
- RWY 06R-24L
- PCN 63 R/B/W/T
- S-100 D-185, 2D-340
- RWY 10A-28
- PCN 80 R/B/W/T
- S-155, D-200, 2D-400

AIRPORT DIAGRAM

24025

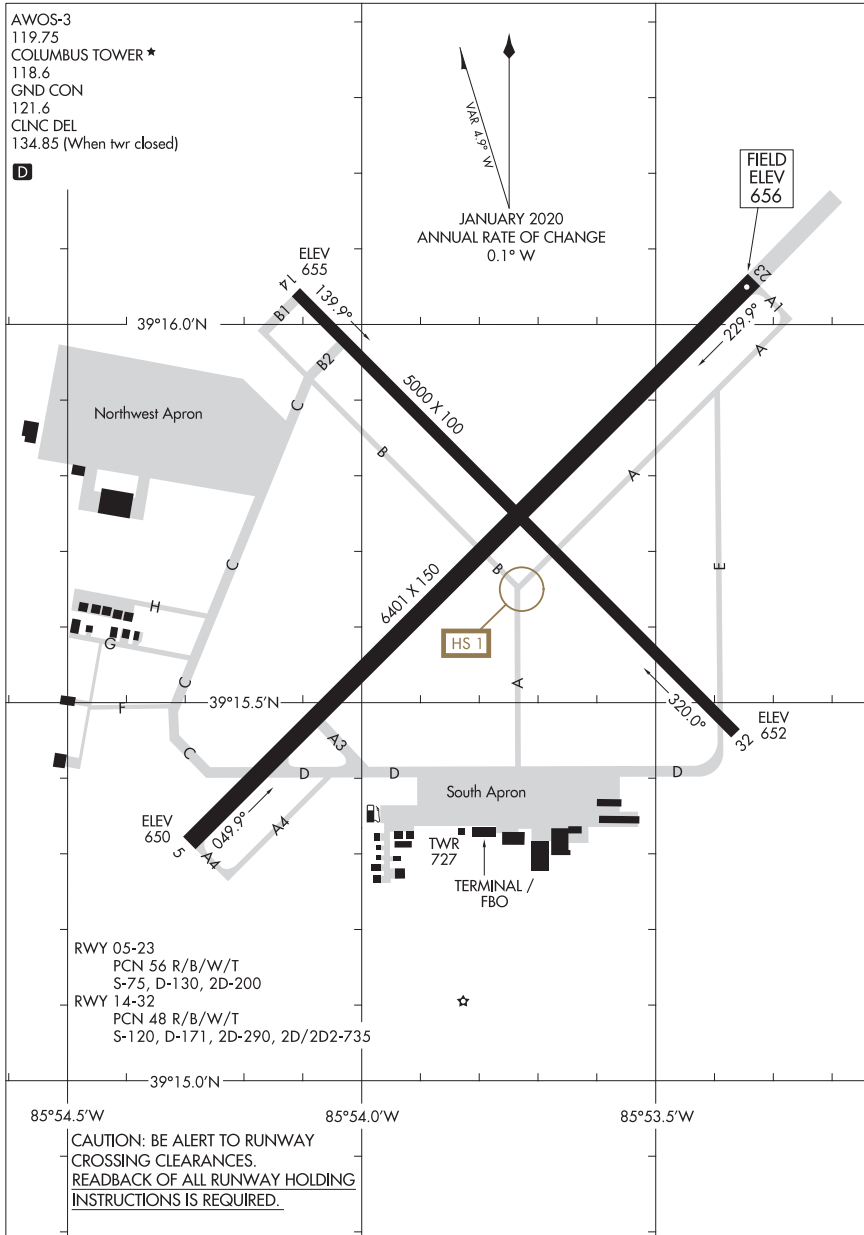
CLEVELAND, OHIO
CLEVELAND-HOPKINS INTL (CLE)

20366

AIRPORT DIAGRAM

AL-594 (FAA)

COLUMBUS MUNI (BAK)
COLUMBUS, INDIANA



AIRPORT DIAGRAM

COLUMBUS, INDIANA
COLUMBUS MUNI (BAK)

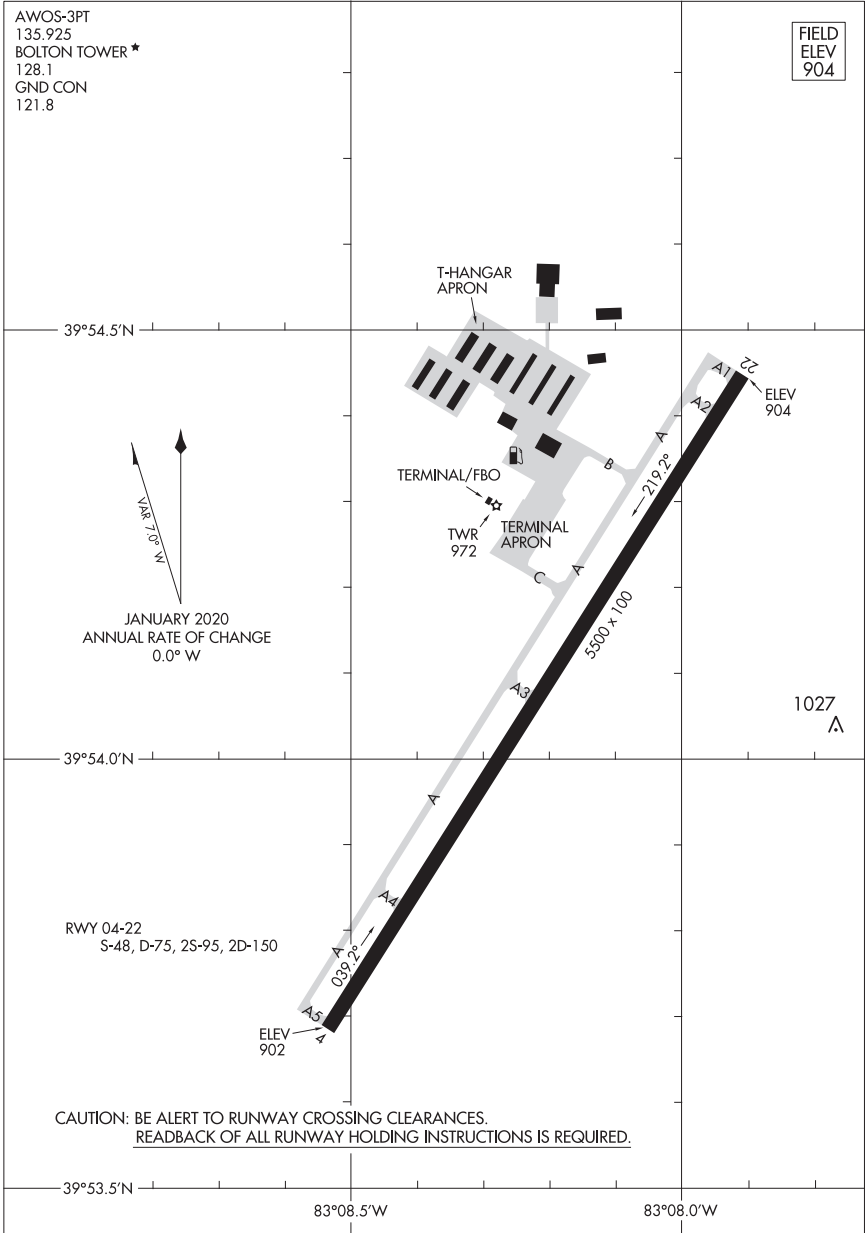
20366

23166

AIRPORT DIAGRAM

AL-5958 (FAA)

BOLTON FLD (TZR)
COLUMBUS, OHIO



AIRPORT DIAGRAM

23166

COLUMBUS, OHIO
BOLTON FLD (TZR)

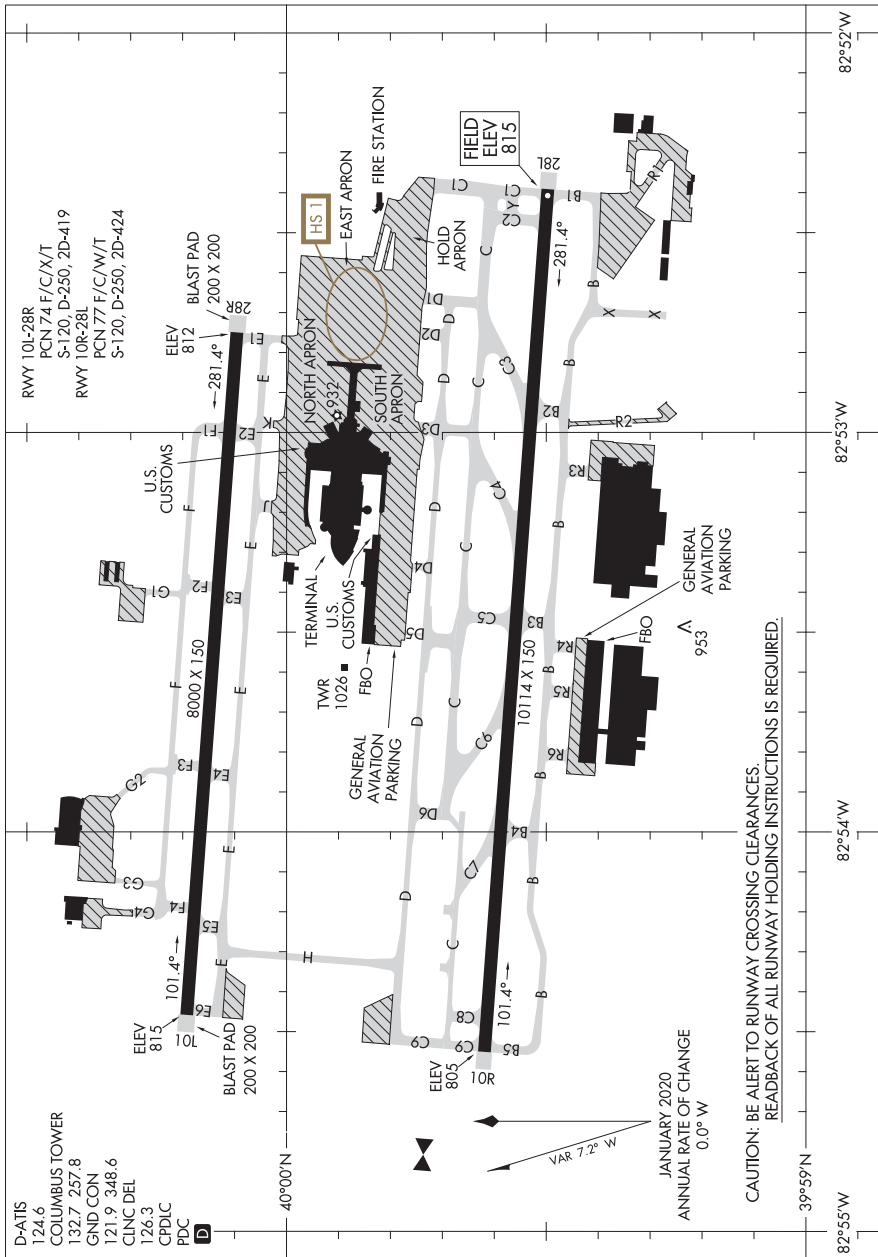
24025

AIRPORT DIAGRAM

JOHN GLENN COLUMBUS INTL (CMH)

AL-94 (FAA)

COLUMBUS, OHIO



AIRPORT DIAGRAM

COLUMBUS, OHIO

JOHN GLENN COLUMBUS INTL (CMH)

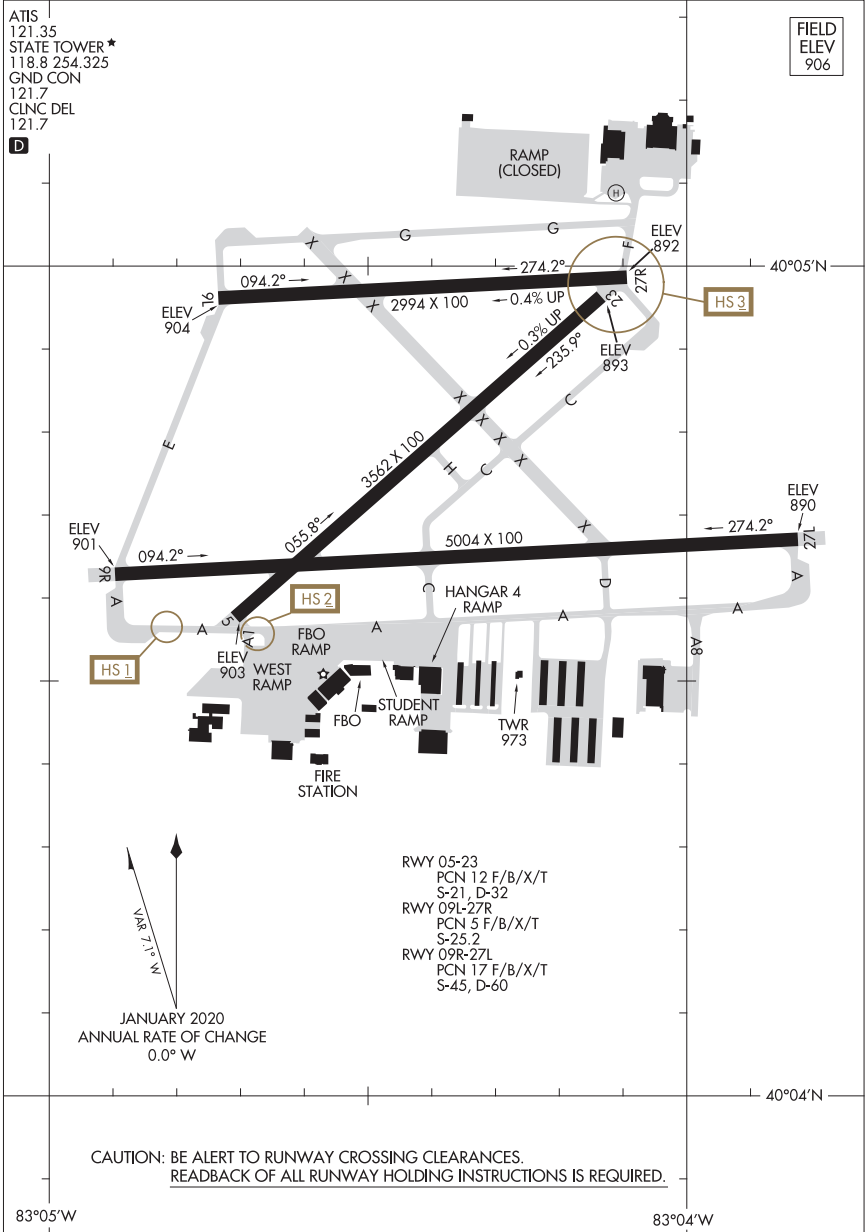
24025

20254

AIRPORT DIAGRAM

AL-5387 (FAA)

OHIO STATE UNIVERSITY (OSU)
COLUMBUS, OHIO



AIRPORT DIAGRAM
20254

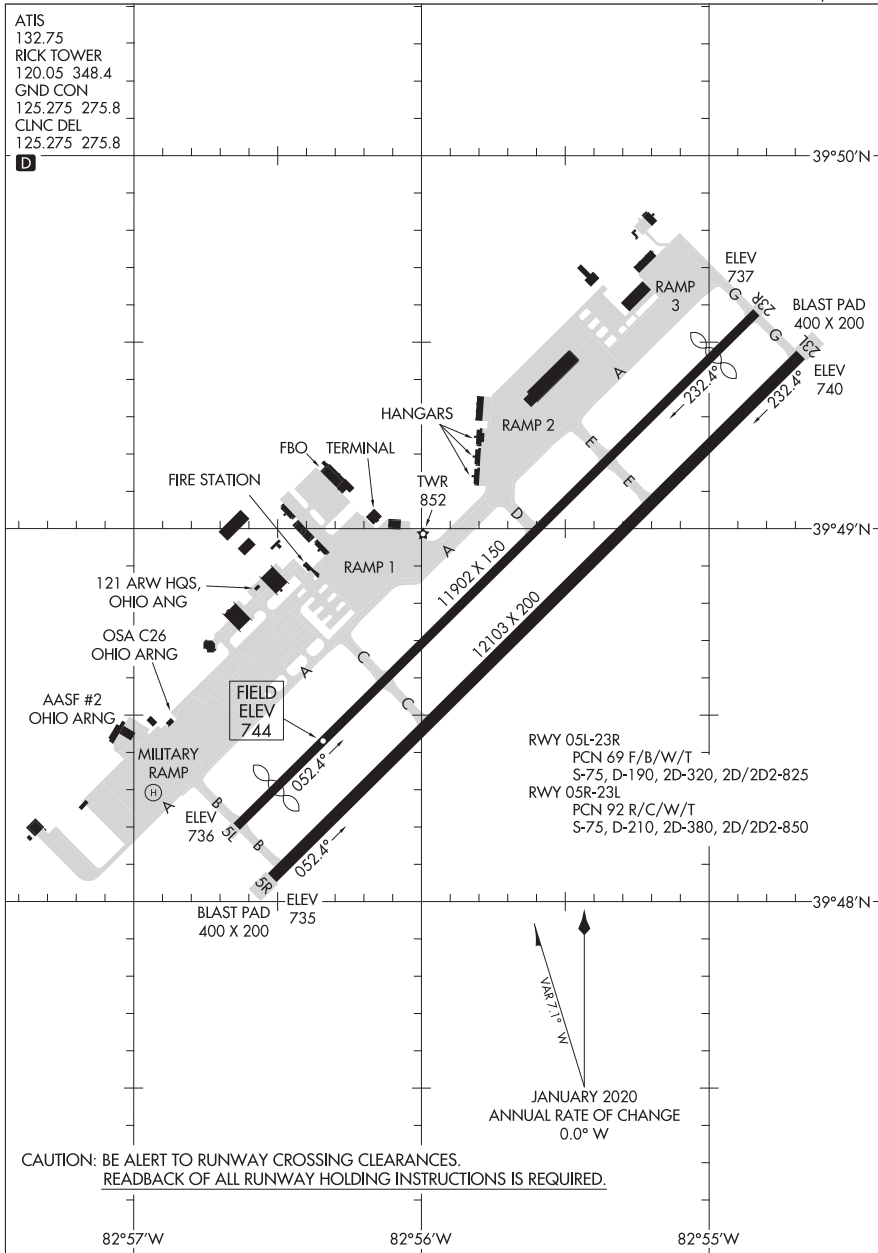
COLUMBUS OHIO
OHIO STATE UNIVERSITY (OSU)

23054

AIRPORT DIAGRAM

AL-6846 (FAA)

RICKENBACKER INTL (LCK)
COLUMBUS, OHIO



AIRPORT DIAGRAM

23054

COLUMBUS, OHIO
RICKENBACKER INTL (LCK)

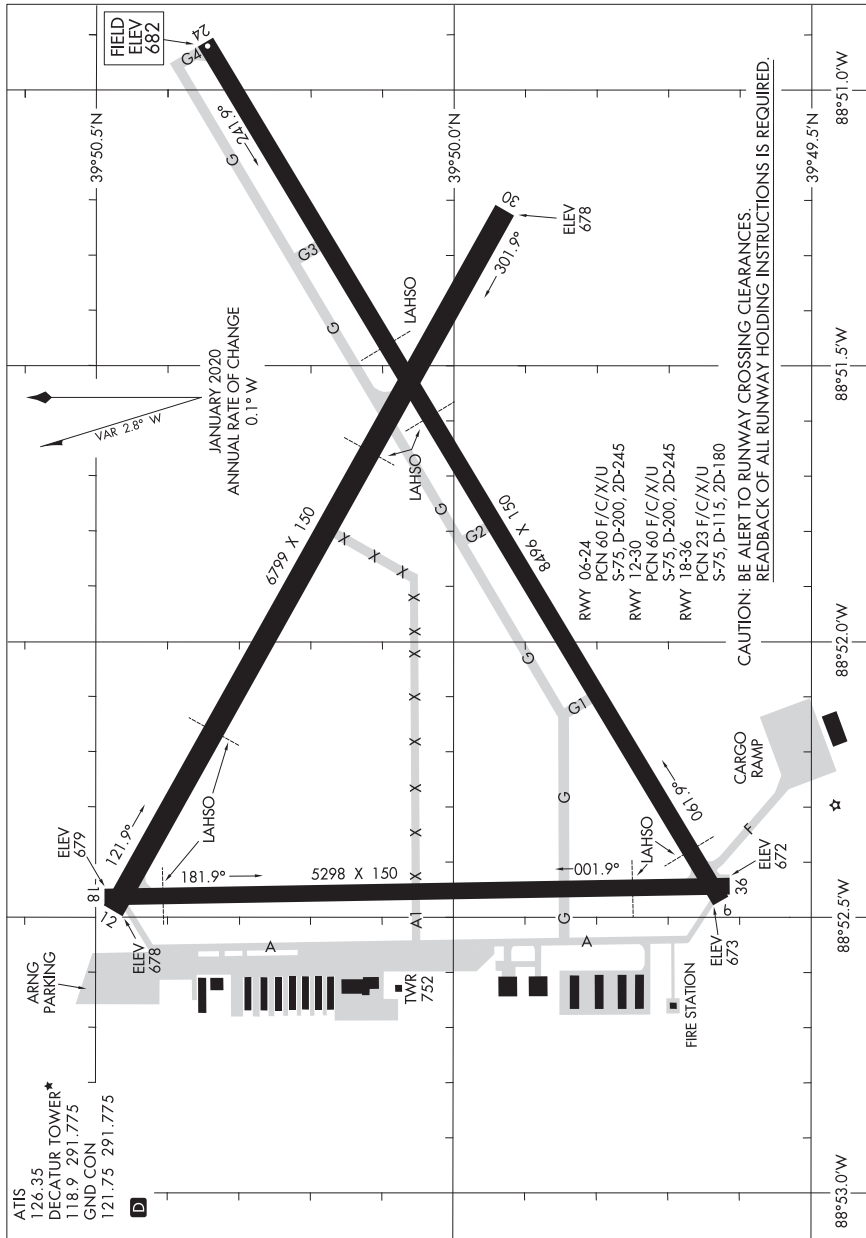
23054

AIRPORT DIAGRAM

AL-710 (FAA)

DECATUR (DEC)

DECATUR, ILLINOIS



AIRPORT DIAGRAM

23054

DECATUR, ILLINOIS

DECATUR (DEC)

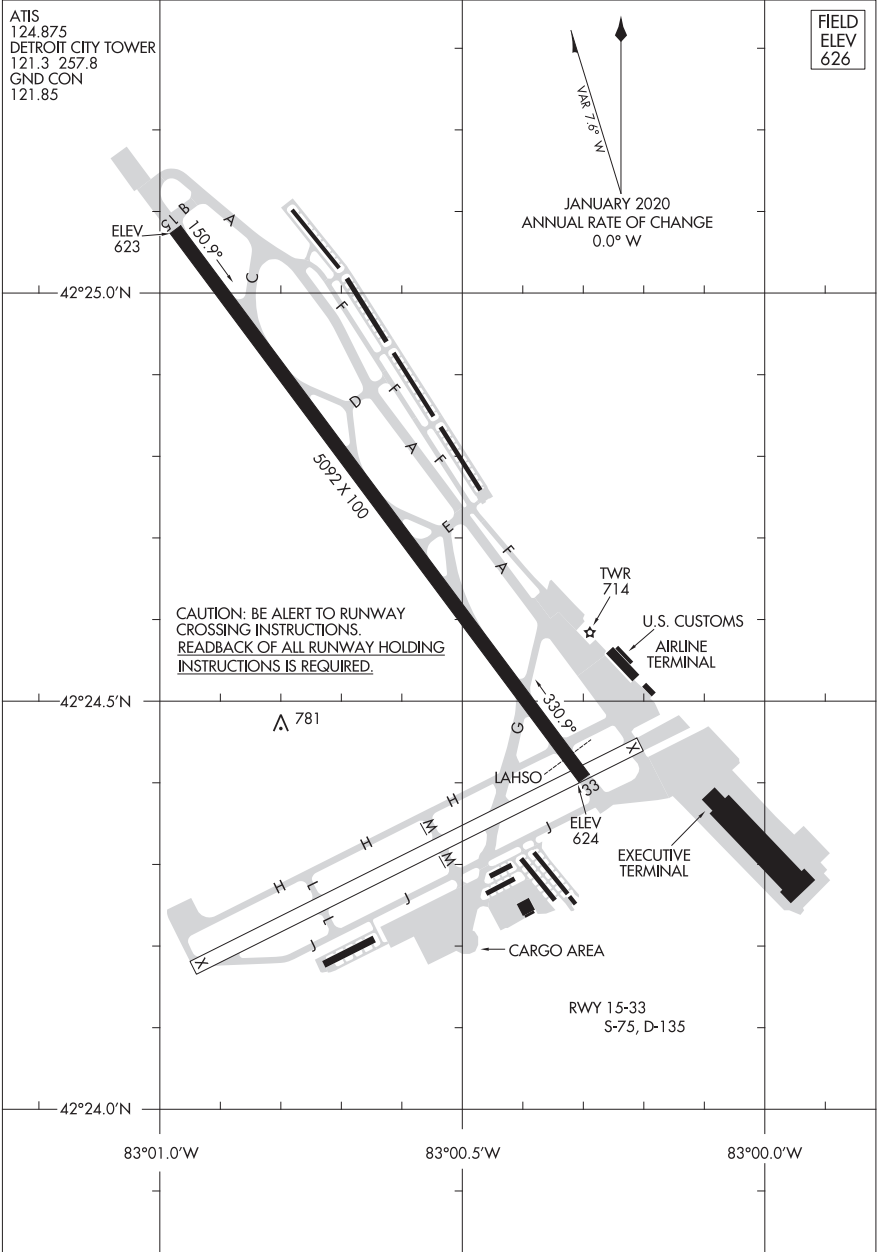
24025

AIRPORT DIAGRAM

AL-118 (FAA)

COLEMAN A YOUNG MUNI (DET)

DETROIT, MICHIGAN



AIRPORT DIAGRAM

24025

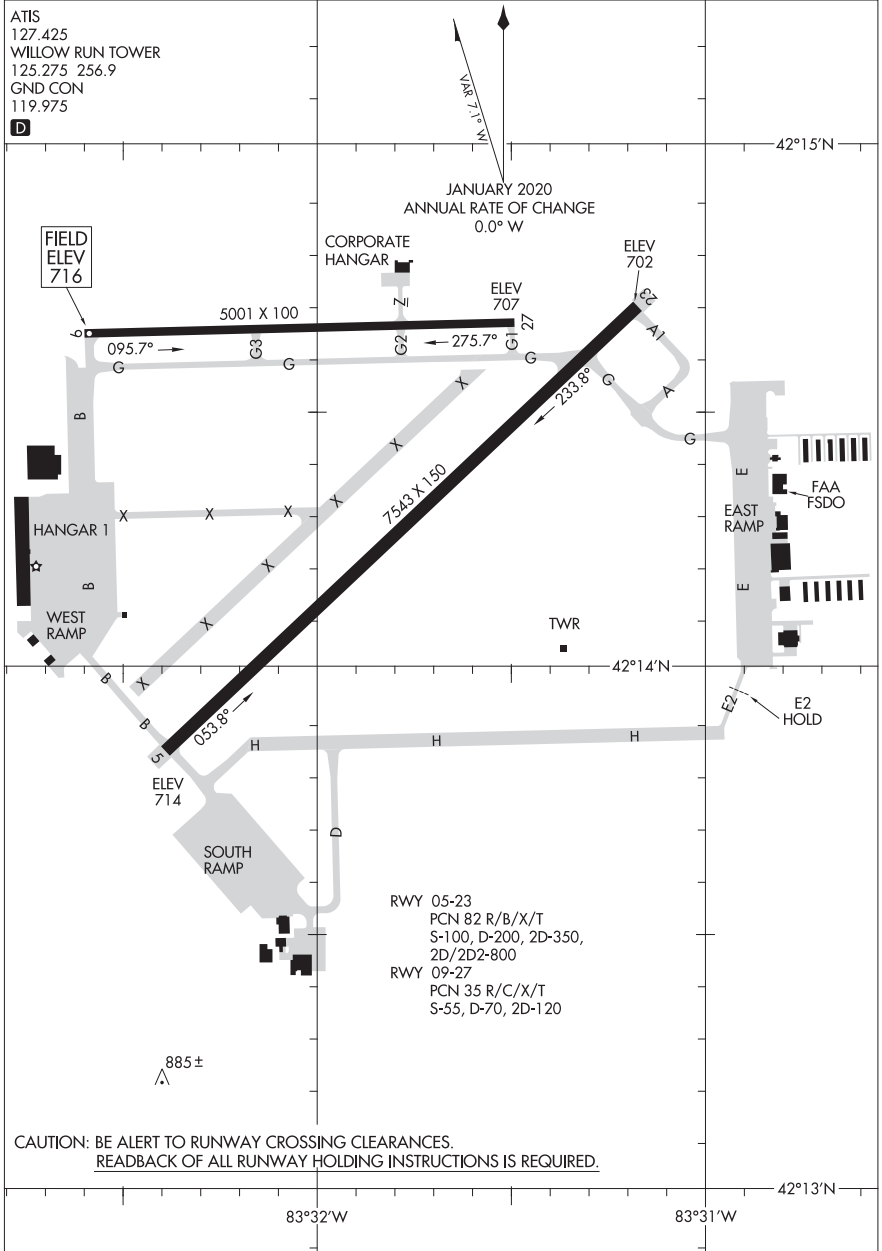
DETROIT, MICHIGAN

COLEMAN A YOUNG MUNI (DET)

23334

AIRPORT DIAGRAM

WILLOW RUN (YIP)
DETROIT, MICHIGAN



AIRPORT DIAGRAM

23334

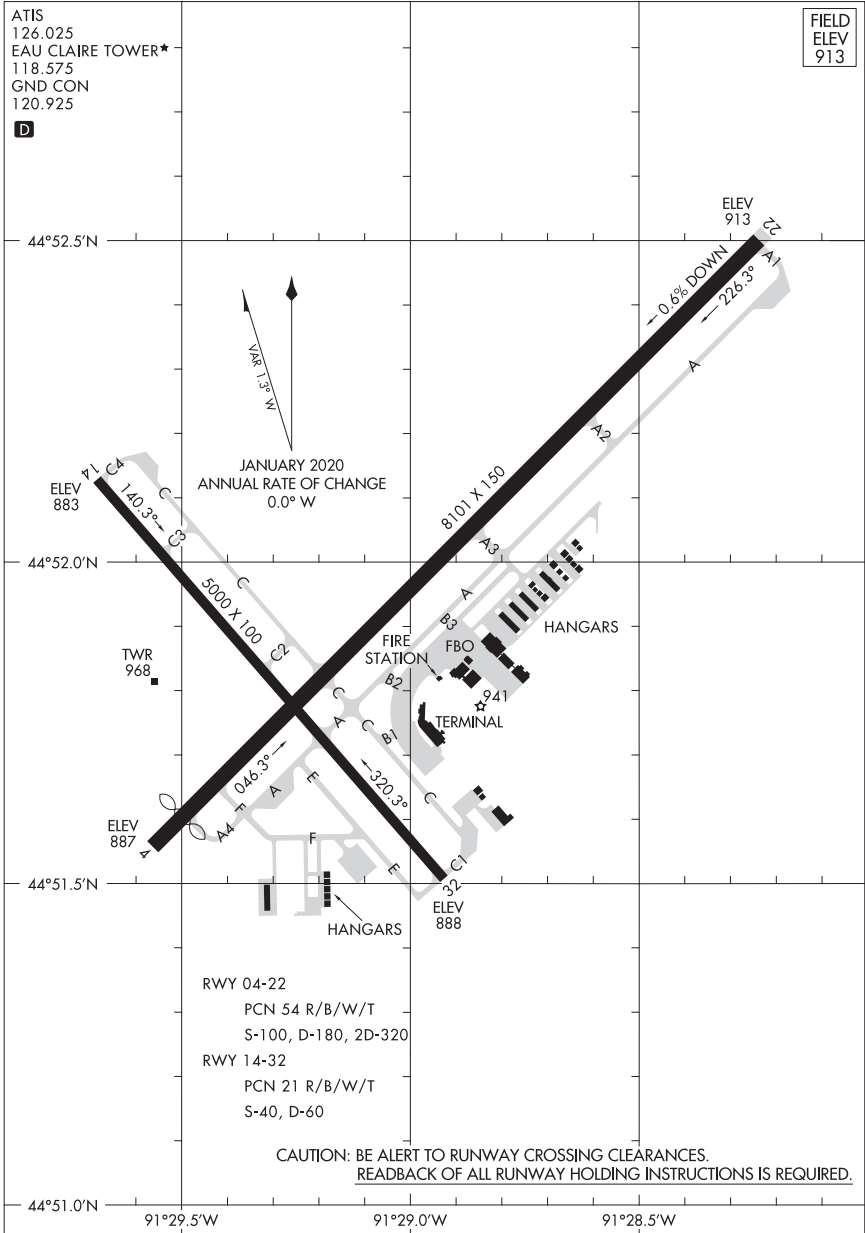
DETROIT, MICHIGAN
WILLOW RUN (YIP)

22139

AIRPORT DIAGRAM

AL-937 (FAA)

CHIPPEWA VALLEY RGNL (E.A.U)
EAU CLAIRE, WISCONSIN



AIRPORT DIAGRAM

22139

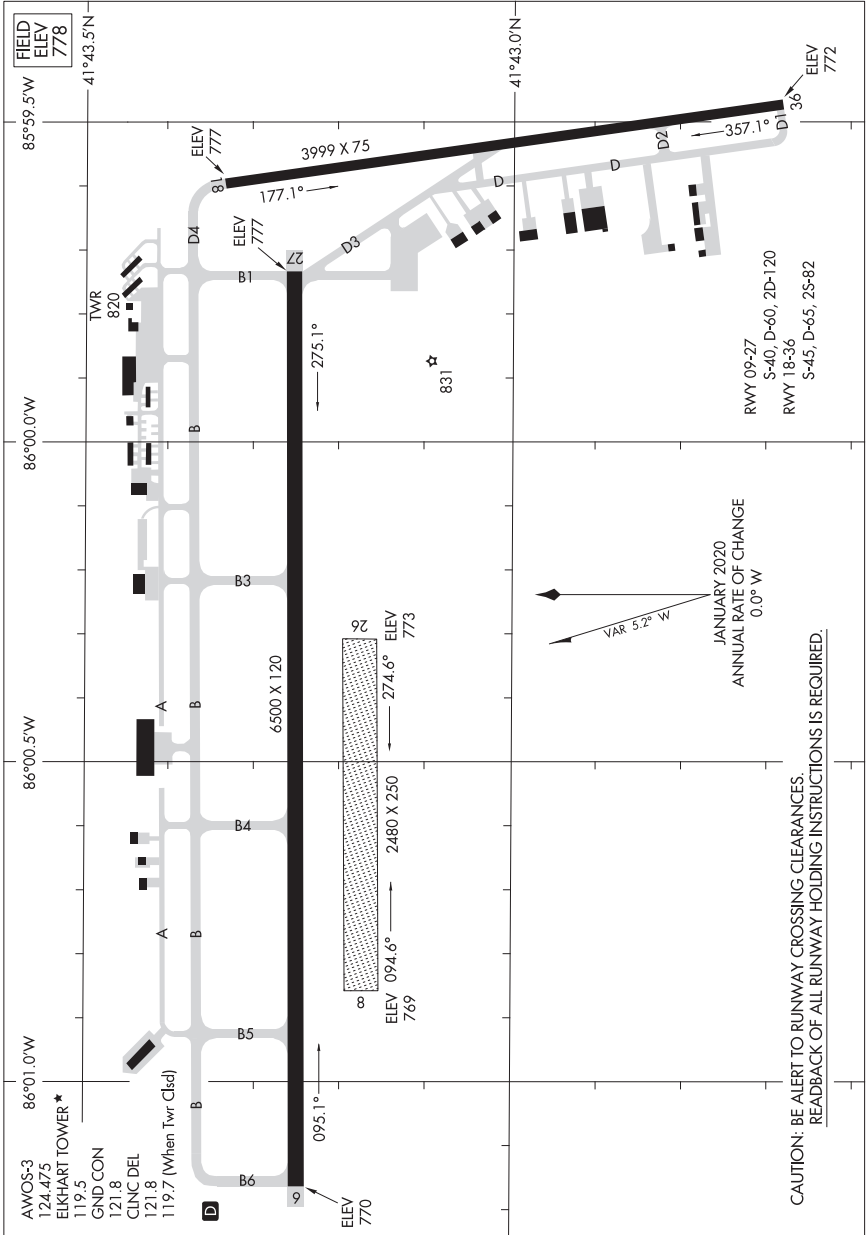
EAU CLAIRE, WISCONSIN
CHIPPEWA VALLEY RGNL (E.A.U)

20086

AIRPORT DIAGRAM

AL-5287 (FAA)

ELKHART MUNI (EKM)
ELKHART, INDIANA



AIRPORT DIAGRAM

20086

ELKHART, INDIANA
ELKHART MUNI (EKM)

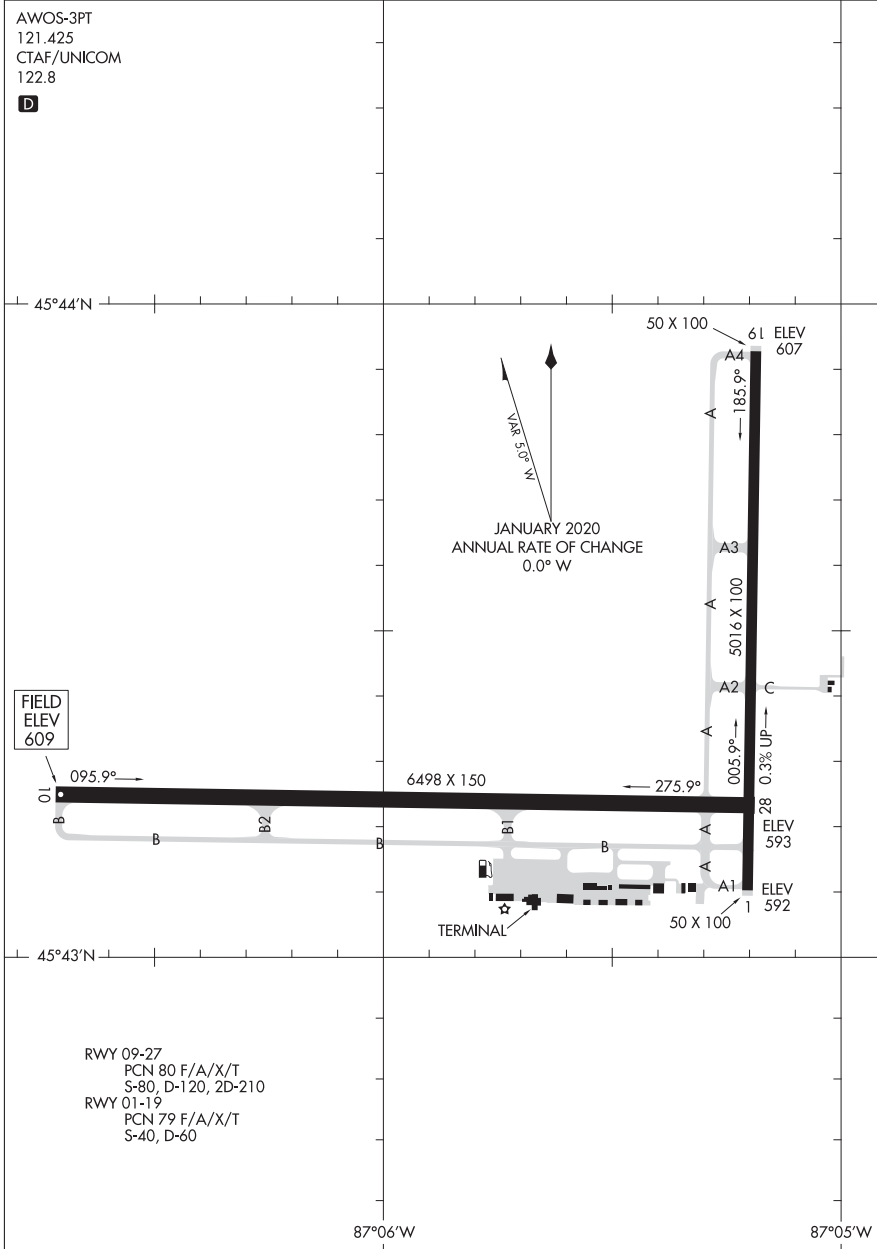
22307

AIRPORT DIAGRAM

AL-5123 (FAA)

DELTA COUNTY (ESC)

ESCANABA, MICHIGAN



AIRPORT DIAGRAM

22307

ESCANABA, MICHIGAN

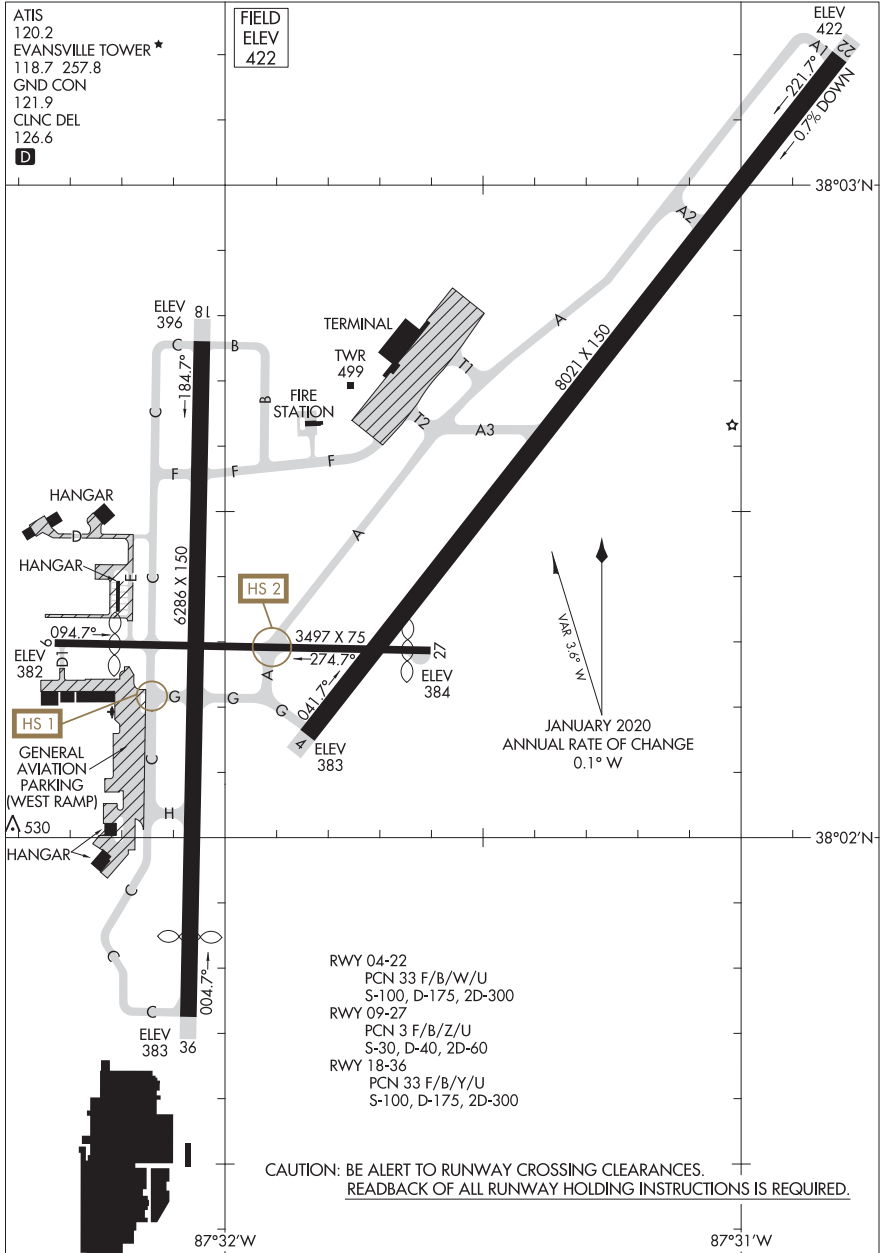
DELTA COUNTY (ESC)

24025

AIRPORT DIAGRAM

AL-513 (FAA)

EVANSVILLE RGNL (EVV)
EVANSVILLE, INDIANA



AIRPORT DIAGRAM

24025

EVANSVILLE, INDIANA
EVANSVILLE RGNL (EVV)

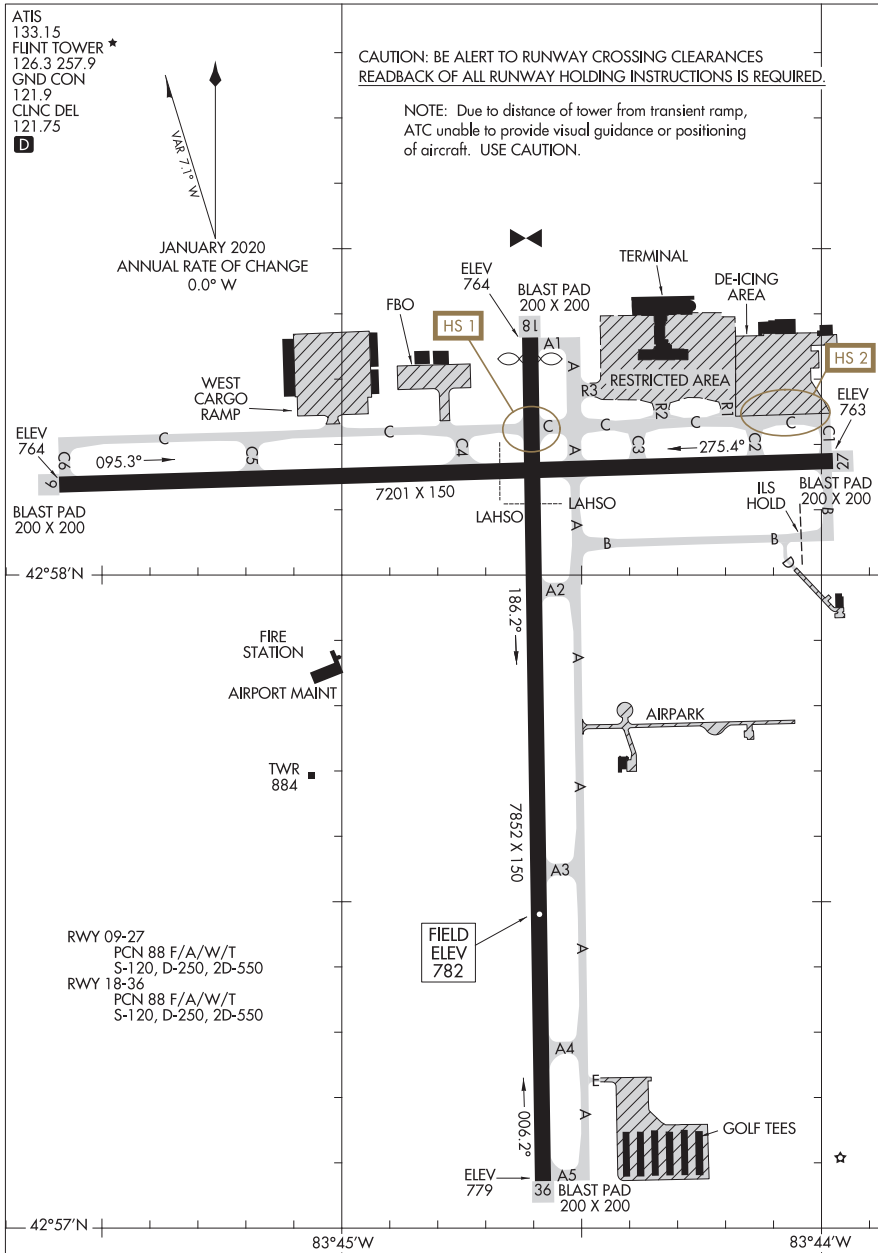
24025

BISHOP INTL (FNT)

AIRPORT DIAGRAM

AL-618 (FAA)

FLINT, MICHIGAN



AIRPORT DIAGRAM

FLINT, MICHIGAN

24025

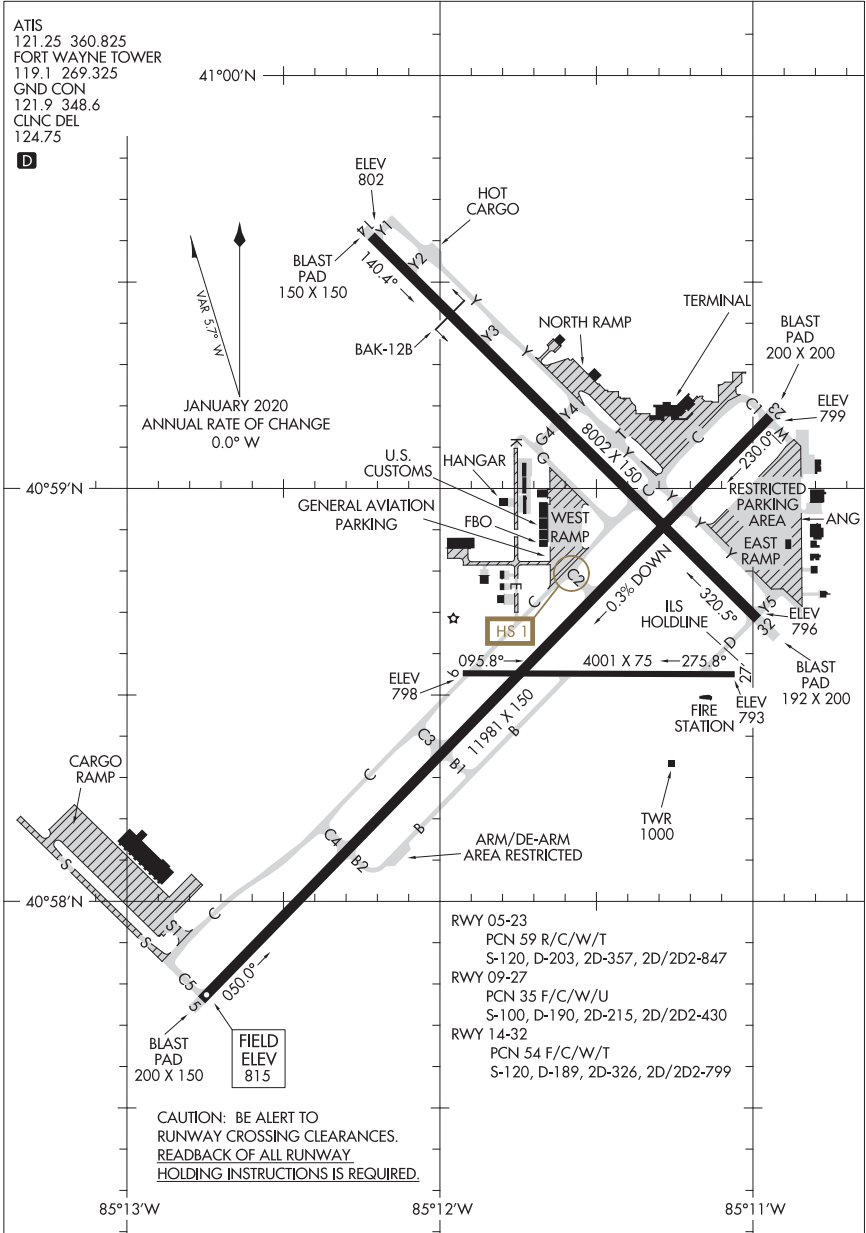
BISHOP INTL (FNT)

24025

AIRPORT DIAGRAM

AL-156 (FAA)

FORT WAYNE INTL (F'WA)
FORT WAYNE, INDIANA



AIRPORT DIAGRAM

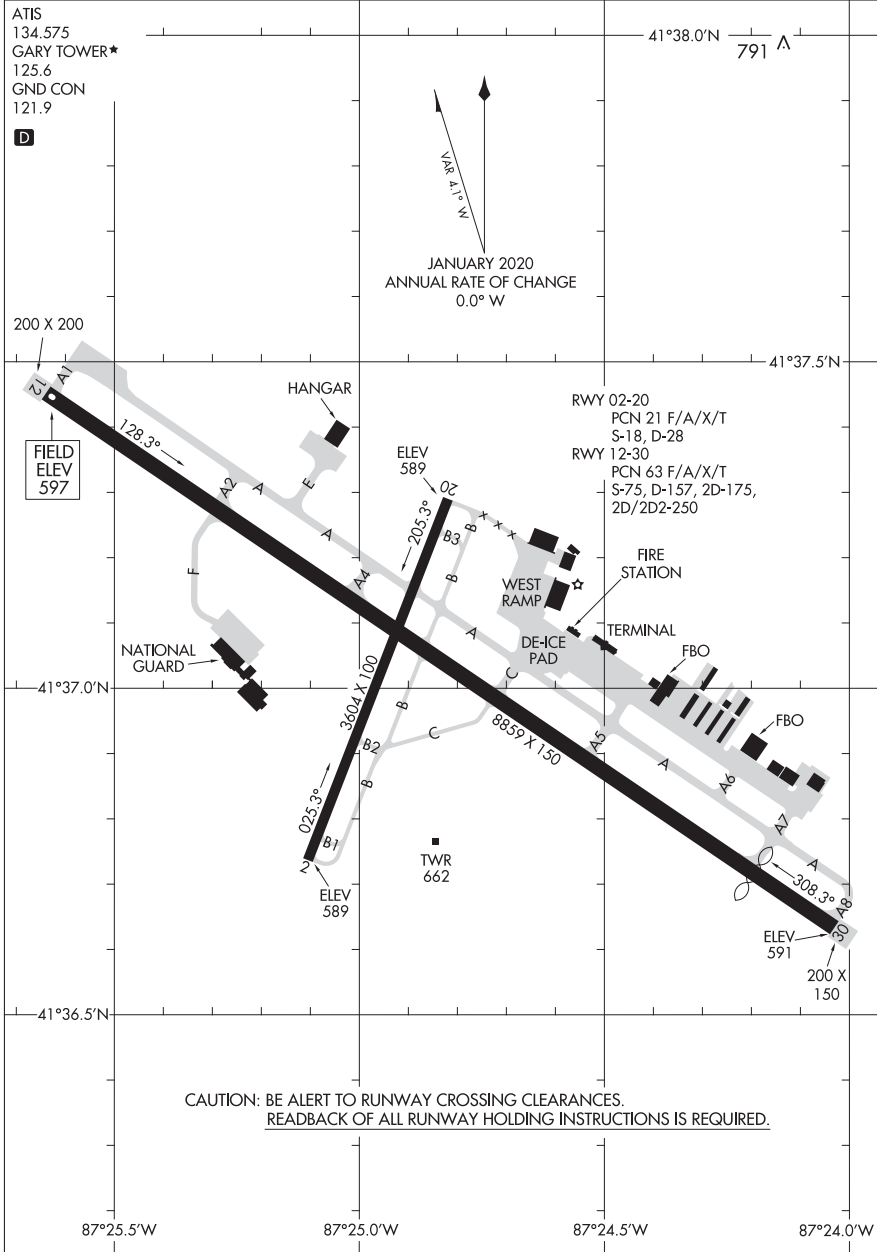
24025

FORT WAYNE, INDIANA
FORT WAYNE INTL (F'WA)

20198

AIRPORT DIAGRAM

AL-748 (FAA)



AIRPORT DIAGRAM

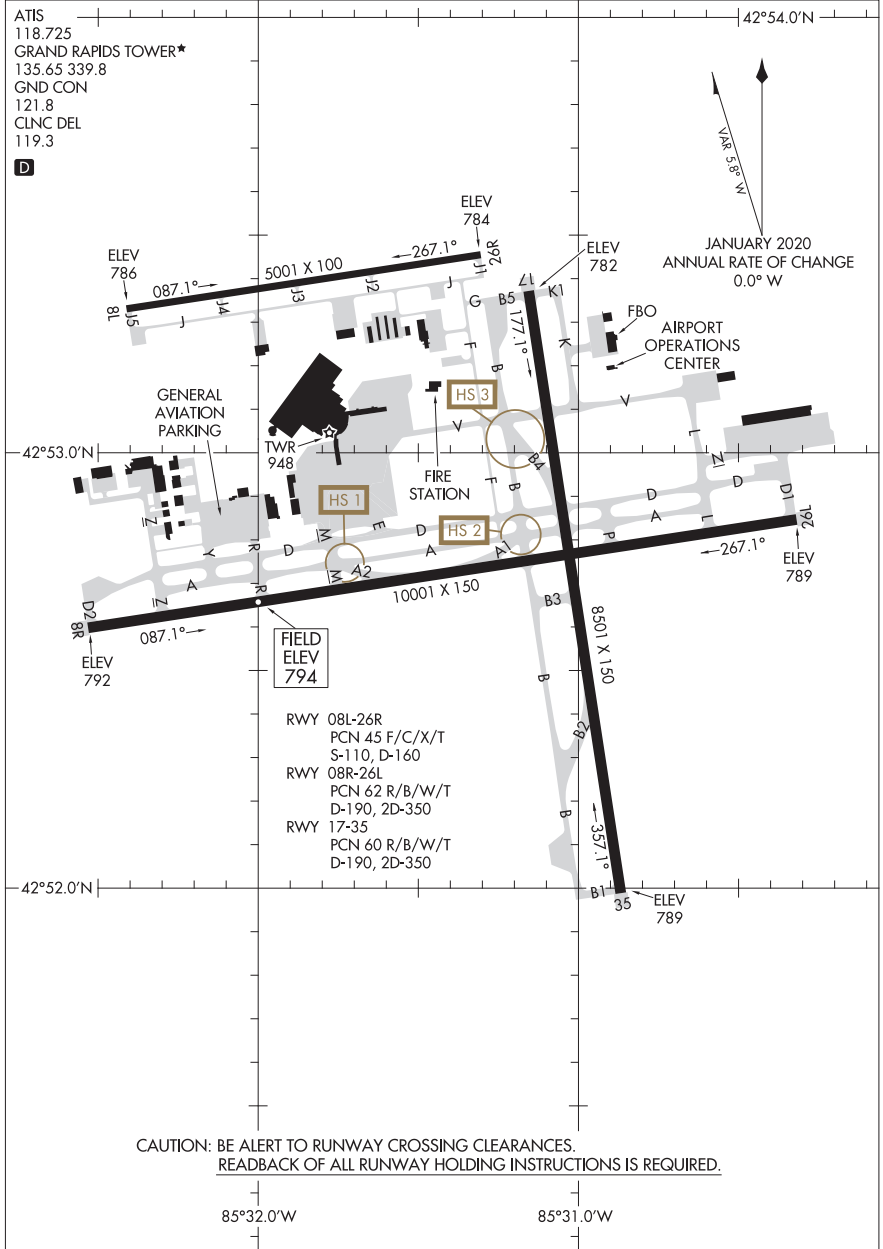
20198

23110

AIRPORT DIAGRAM

AL-5184 (FAA)

GERALD R FORD INTL (G.R.R.)
GRAND RAPIDS, MICHIGAN



AIRPORT DIAGRAM

23110

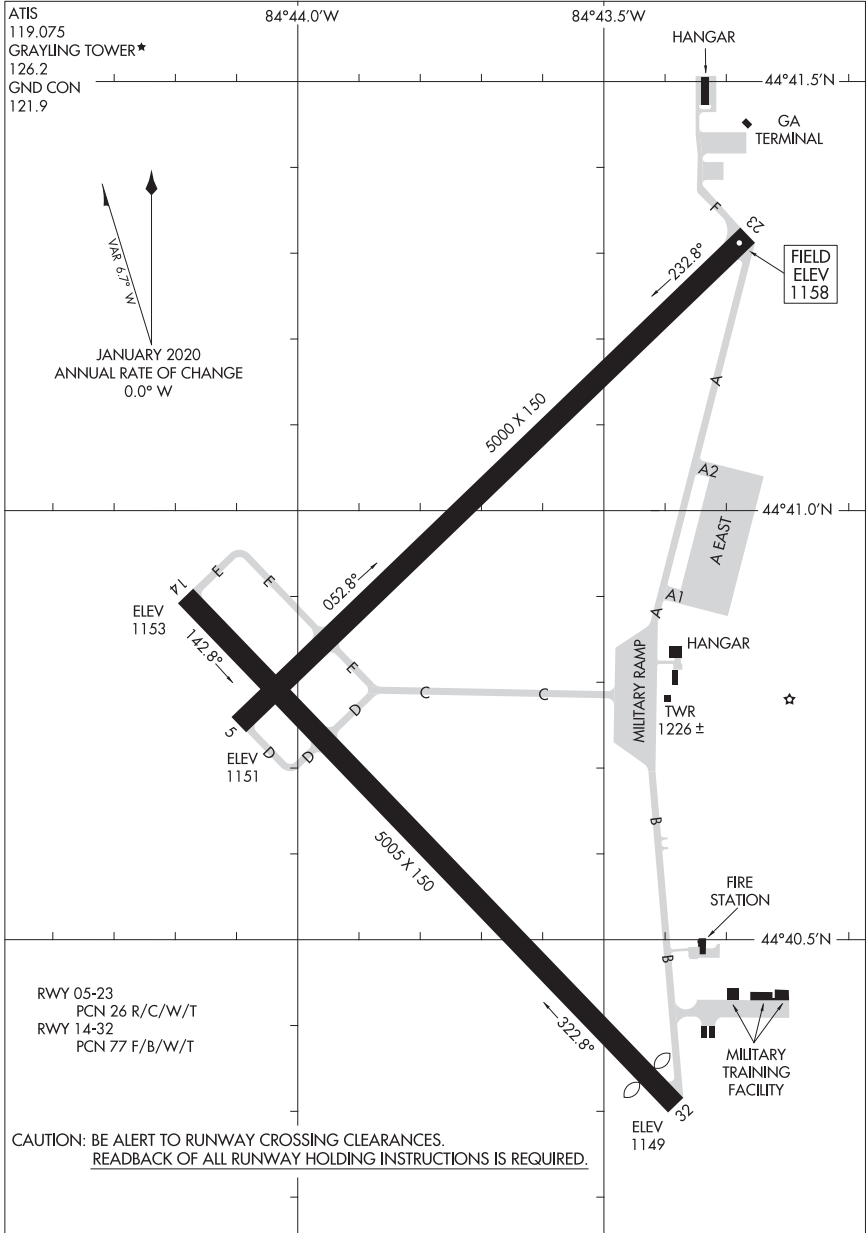
GRAND RAPIDS, MICHIGAN
GERALD R FORD INTL (G.R.R.)

20086

AIRPORT DIAGRAM

AL-5957 (FAA)

GRAYLING AAF (GOV)
GRAYLING, MICHIGAN



AIRPORT DIAGRAM
20086

GRAYLING, MICHIGAN
GRAYLING AAF (GOV)

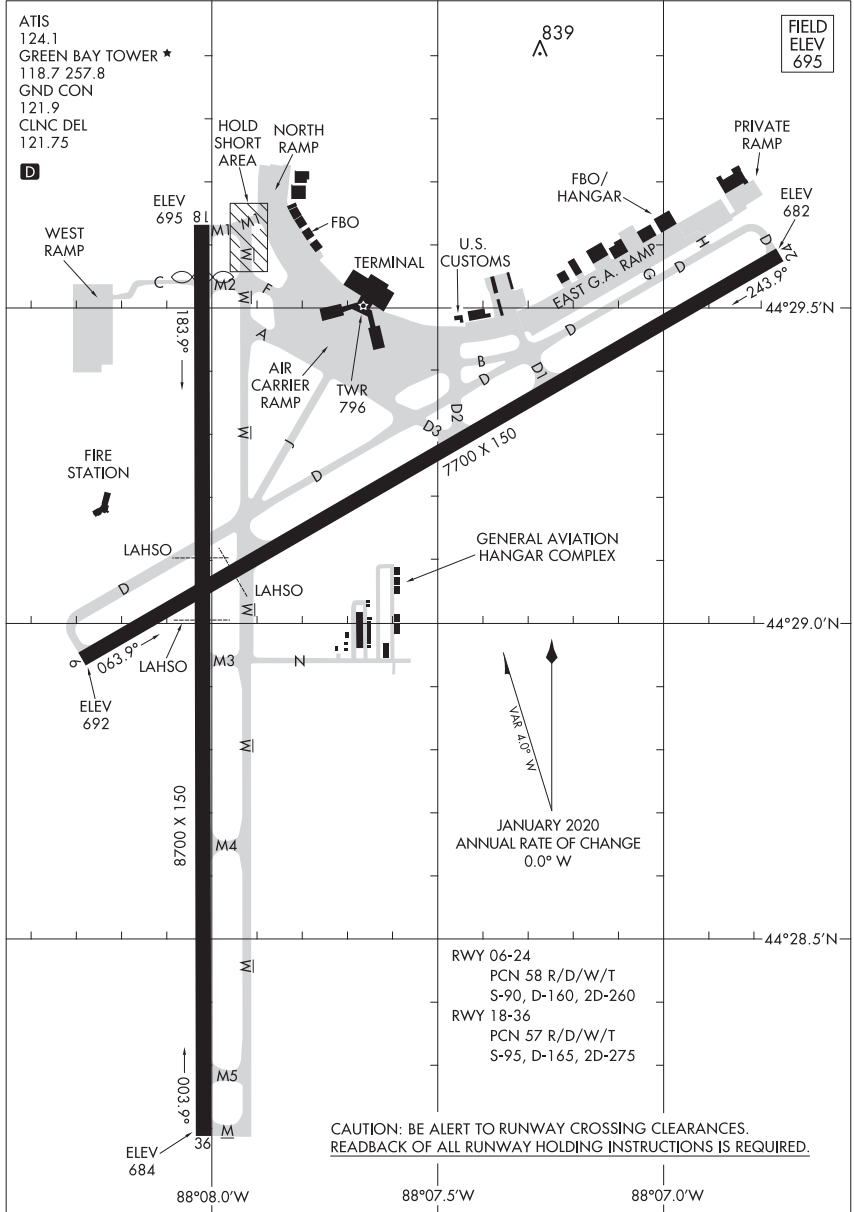
21336

AIRPORT DIAGRAM

GREEN BAY/AUSTIN STRAUBEL INTL (GRB)

AL-873 (FAA)

GREEN BAY, WISCONSIN



AIRPORT DIAGRAM

21336

GREEN BAY, WISCONSIN
GREEN BAY/AUSTIN STRAUBEL INTL (GRB)

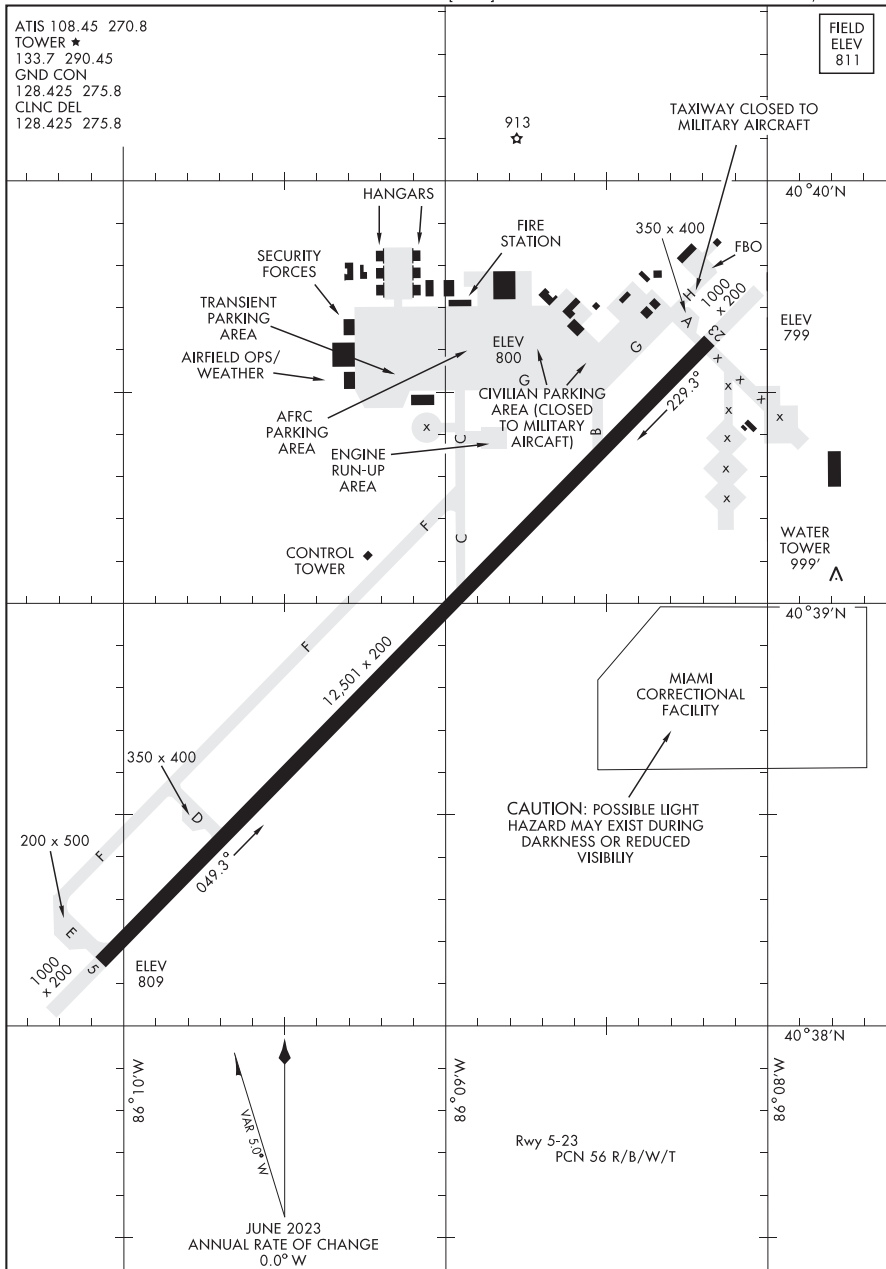
23278

GRISSOM ARB (KGUS)

AIRPORT DIAGRAM

AL-470 [USAF]

PERU, INDIANA



AIRPORT DIAGRAM

PERU, INDIANA

GRISSOM ARB (KGUS)

23334

AIRPORT DIAGRAM

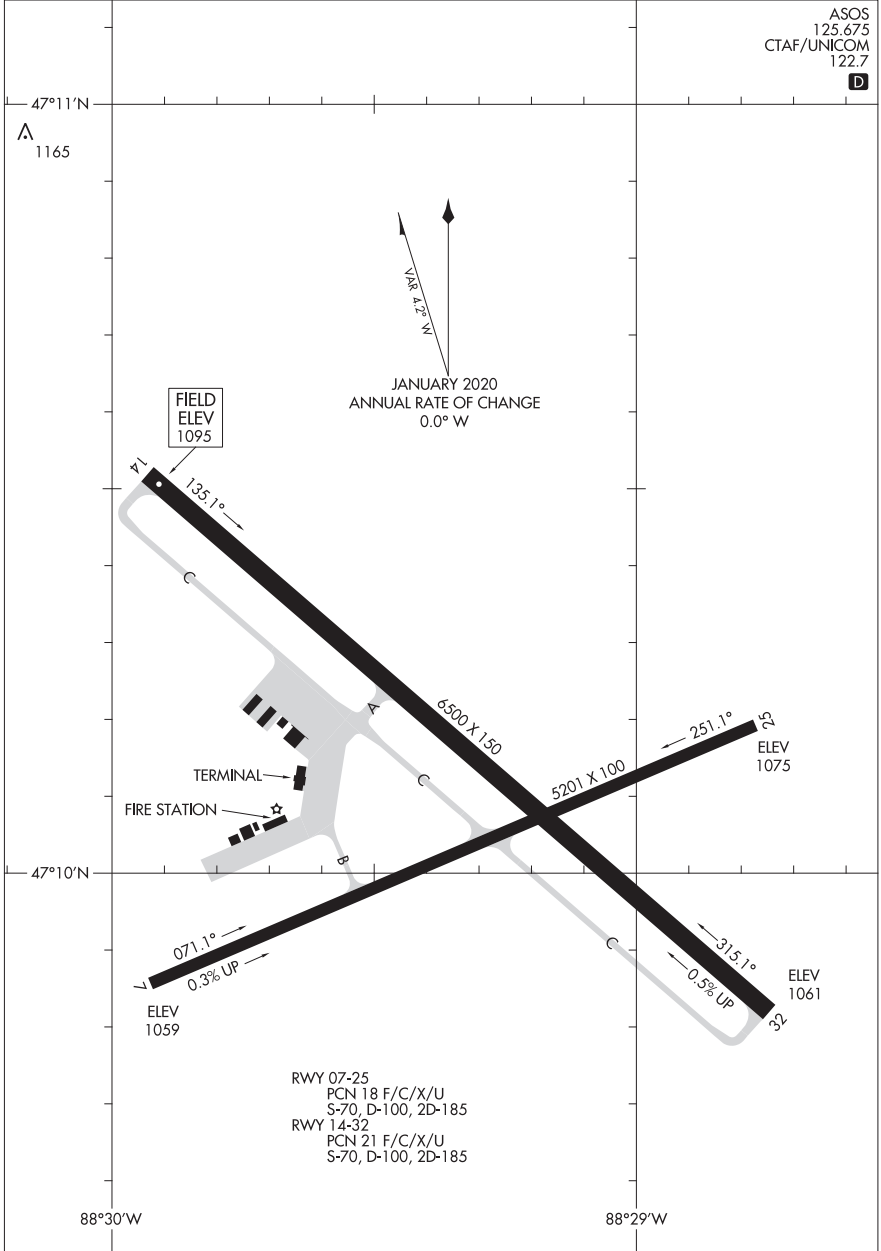
AL-896 (FAA)

HOUGHTON COUNTY MEML (CMX)

HANCOCK, MICHIGAN

ASOS
125.675
CTAF/UNICOM
122.7

D



AIRPORT DIAGRAM

23334

HANCOCK, MICHIGAN

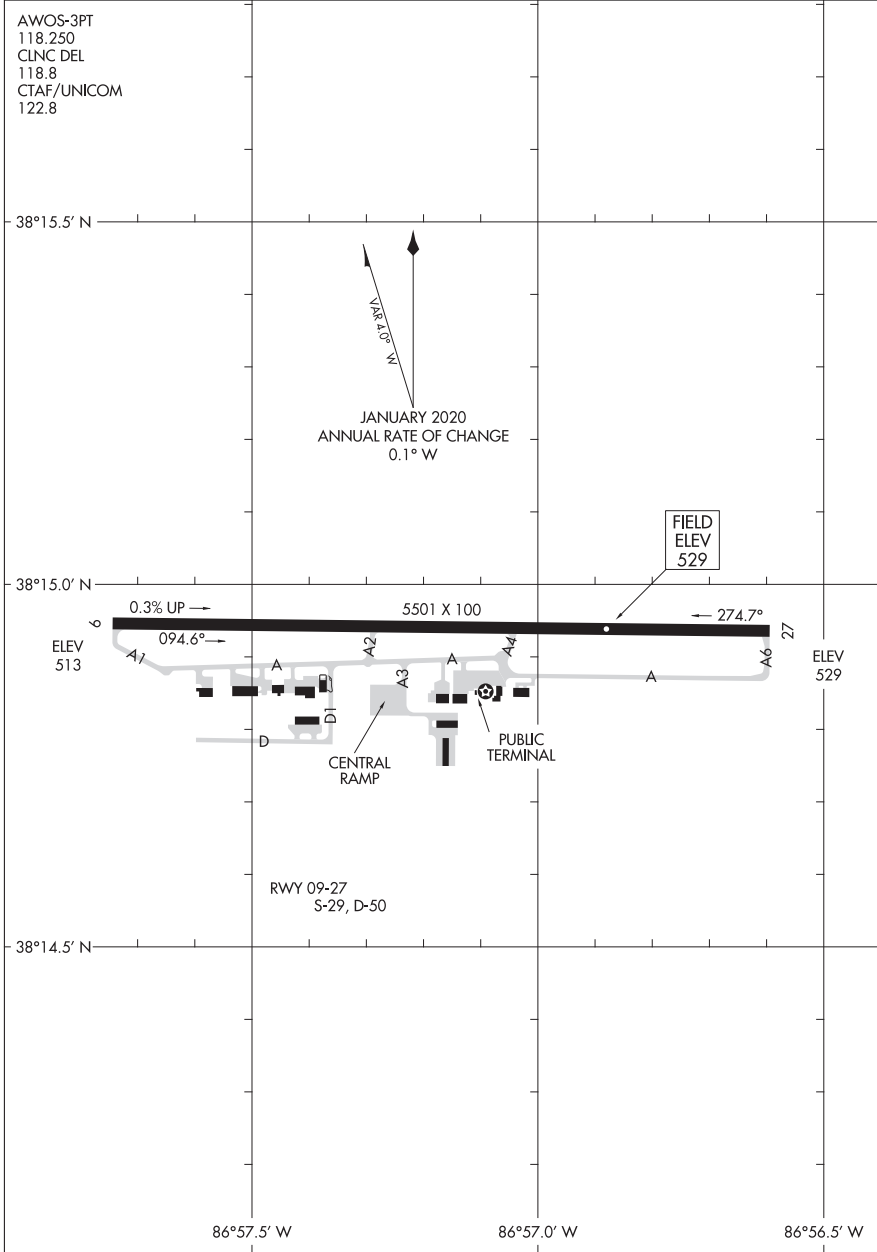
HOUGHTON COUNTY MEML (CMX)

22363

AIRPORT DIAGRAM

AL-5378 (FAA)

HUNTINGBURG (HNB)
HUNTINGBURG, INDIANA



AIRPORT DIAGRAM

22363

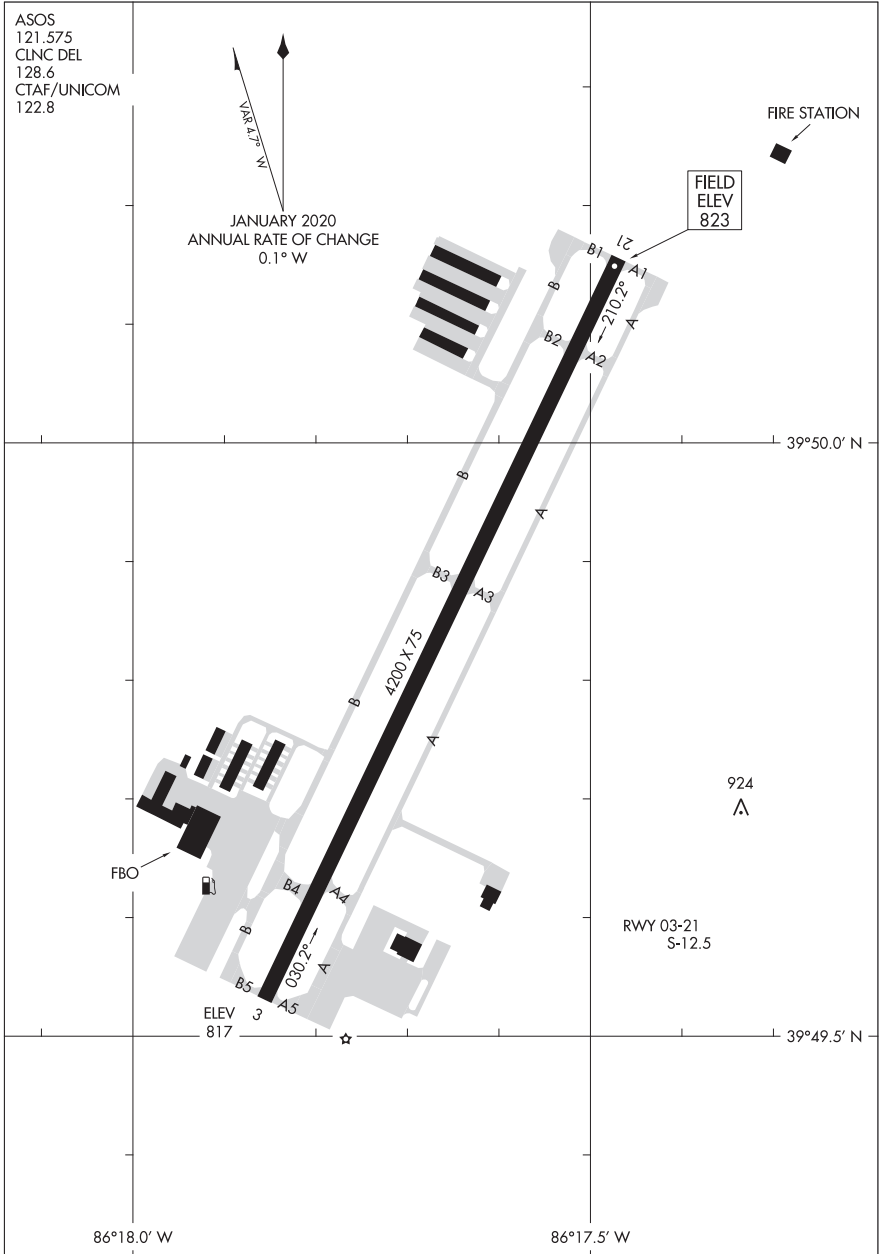
HUNTINGBURG, INDIANA
HUNTINGBURG (HNB)

23054

AIRPORT DIAGRAM

AL-5733 (FAA)

EAGLE CREEK AIRPARK (EYE)
INDIANAPOLIS, INDIANA



AIRPORT DIAGRAM

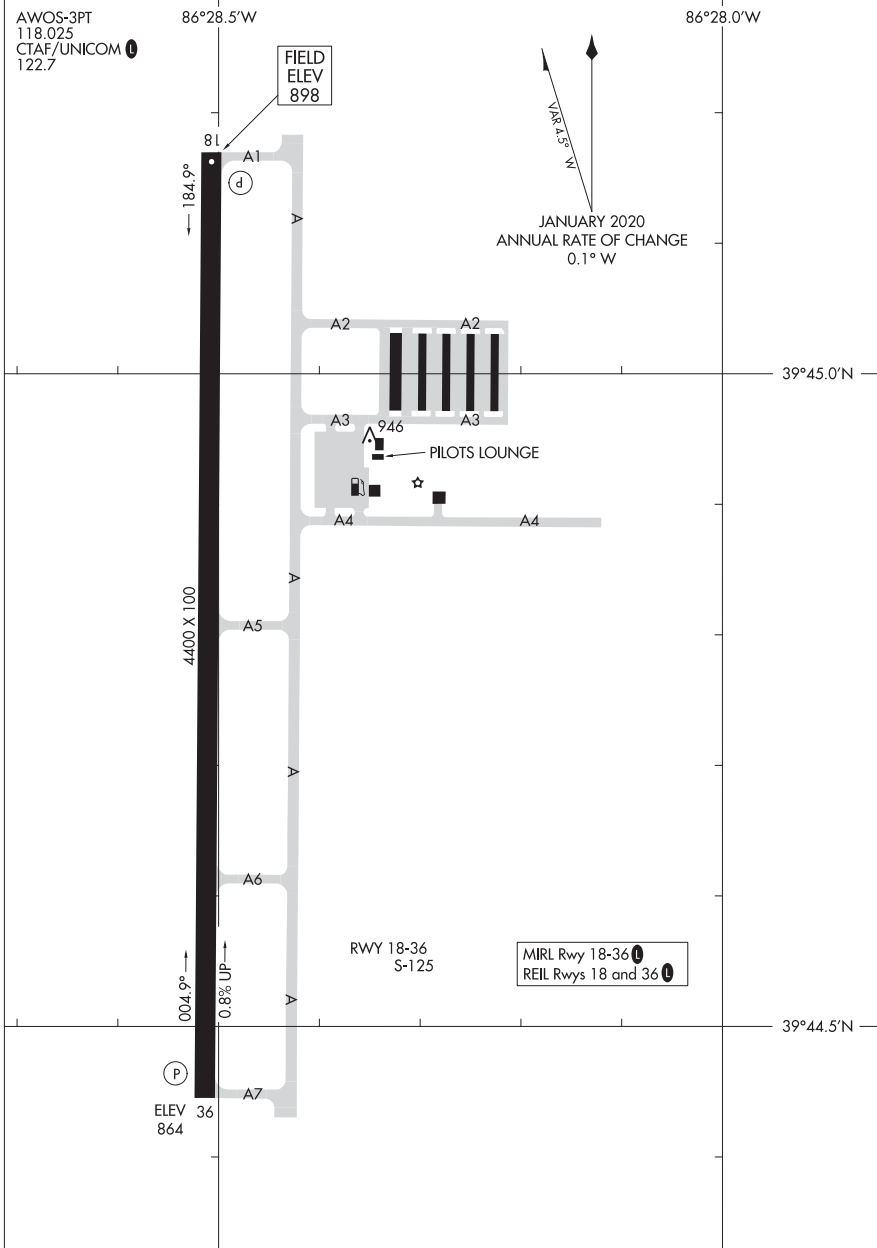
23054

INDIANAPOLIS, INDIANA
EAGLE CREEK AIRPARK (EYE)

23334

AIRPORT DIAGRAM

HENDRICKS COUNTY-GORDON GRAHAM FLD (2R2)
AL-10352 (FAA)
INDIANAPOLIS, INDIANA



AIRPORT DIAGRAM

23334

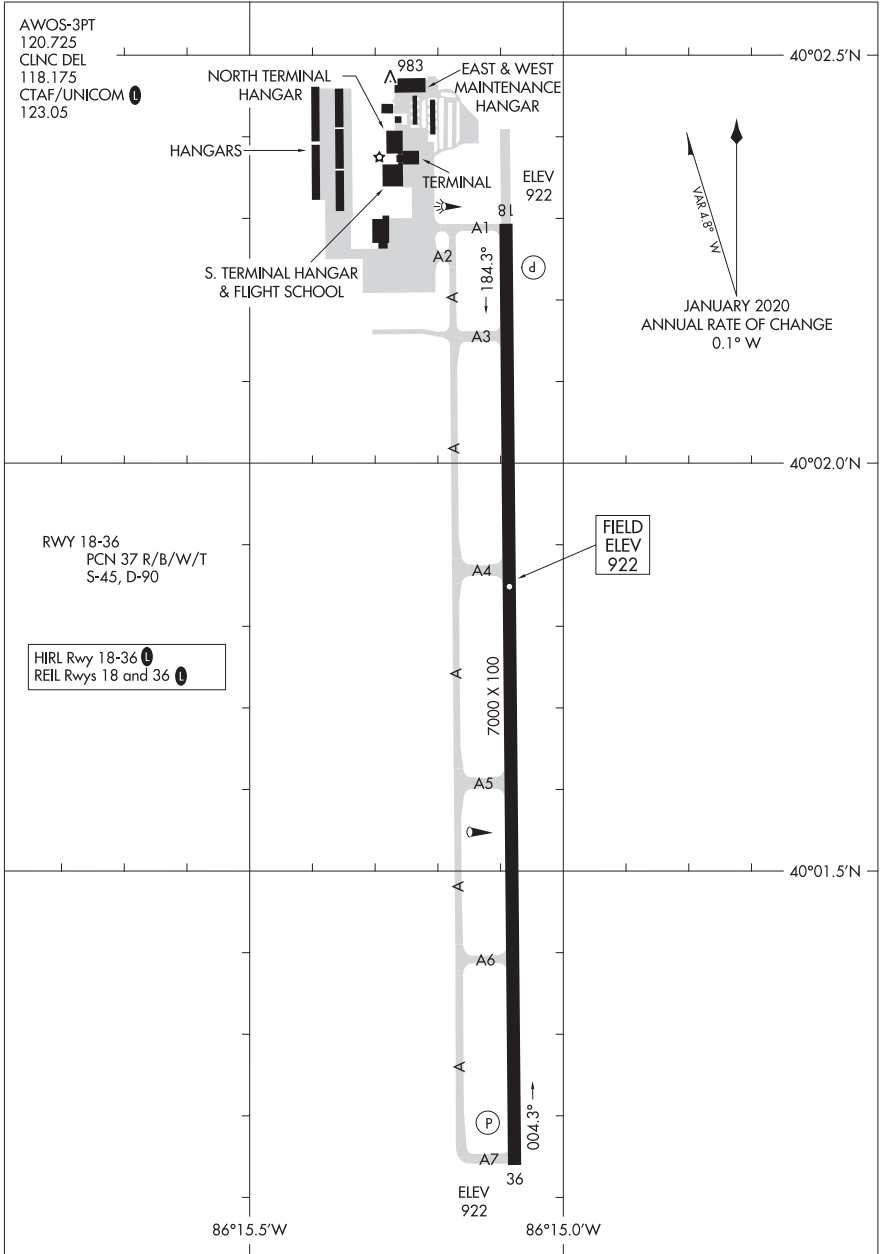
INDIANAPOLIS, INDIANA
HENDRICKS COUNTY-GORDON GRAHAM FLD (2R2)

24025

AIRPORT DIAGRAM

AL-5438 (FAA)

INDIANAPOLIS EXEC (TYQ)
INDIANAPOLIS, INDIANA



AIRPORT DIAGRAM

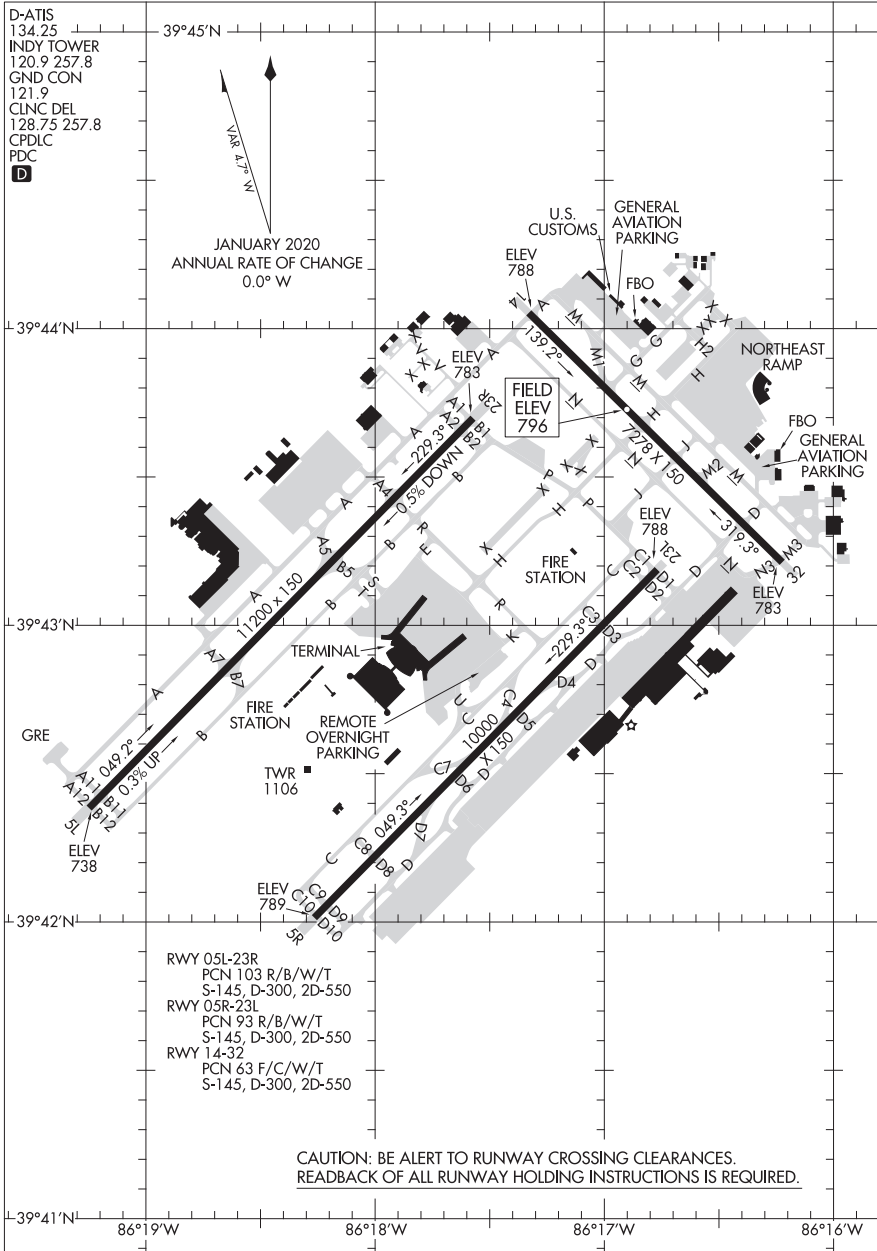
24025

INDIANAPOLIS, INDIANA
INDIANAPOLIS EXEC (TYQ)

23334

AIRPORT DIAGRAM

AL-203 (FAA)



RWY 05L-23R
PCN 103 R/B/W/T
S-145, D-300, 2D-550

RWY 05R-23L
PCN 93 R/B/W/T
S-145, D-300, 2D-550

RWY 14-32
PCN 63 F/C/W/T
S-145, D-300, 2D-550

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

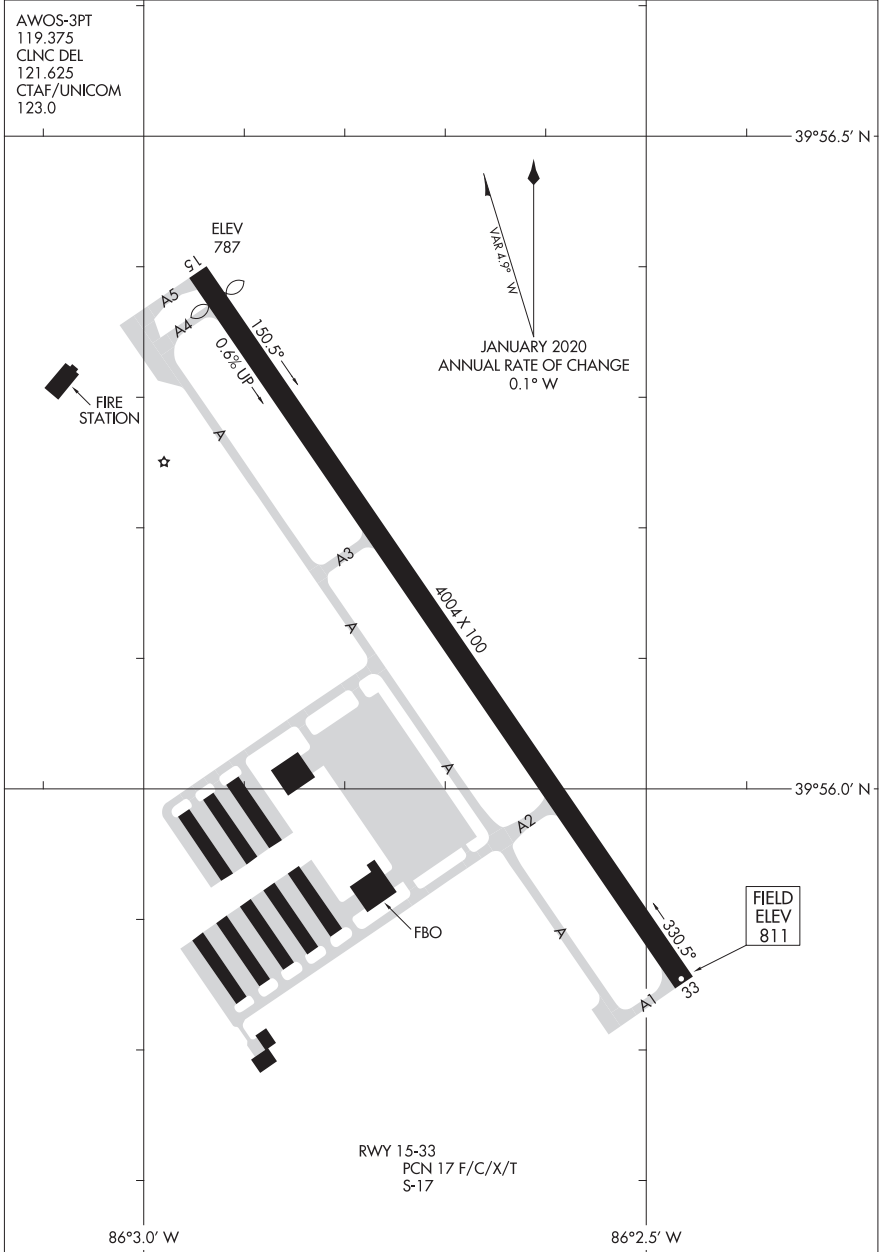
23334

23334

AIRPORT DIAGRAM

AL-5902 (FAA)

INDIANAPOLIS METRO (UMP)
INDIANAPOLIS, INDIANA



AIRPORT DIAGRAM

23334

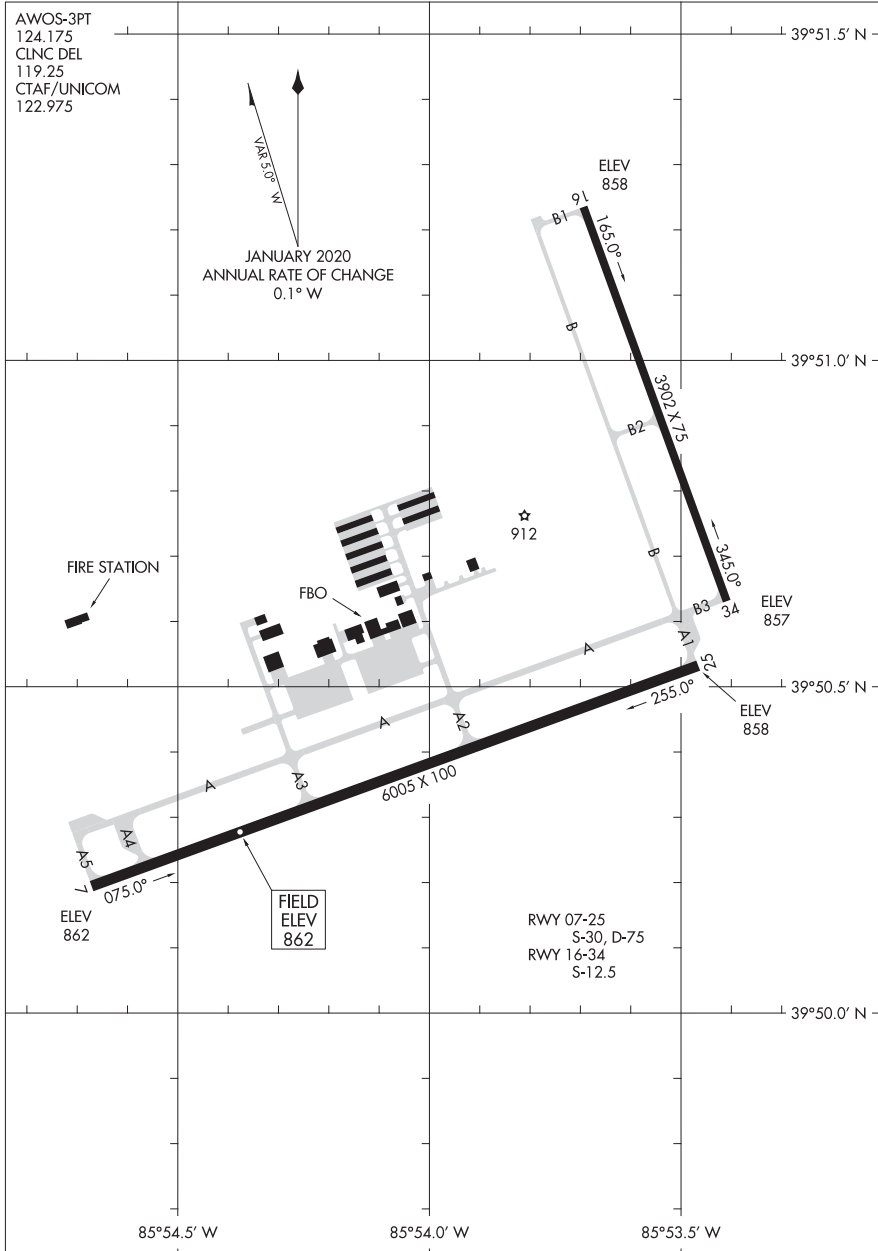
INDIANAPOLIS, INDIANA
INDIANAPOLIS METRO (UMP)

24025

AIRPORT DIAGRAM

AL-6452 (FAA)

INDIANAPOLIS RGNL (MQJ)
INDIANAPOLIS, INDIANA



AIRPORT DIAGRAM

24025

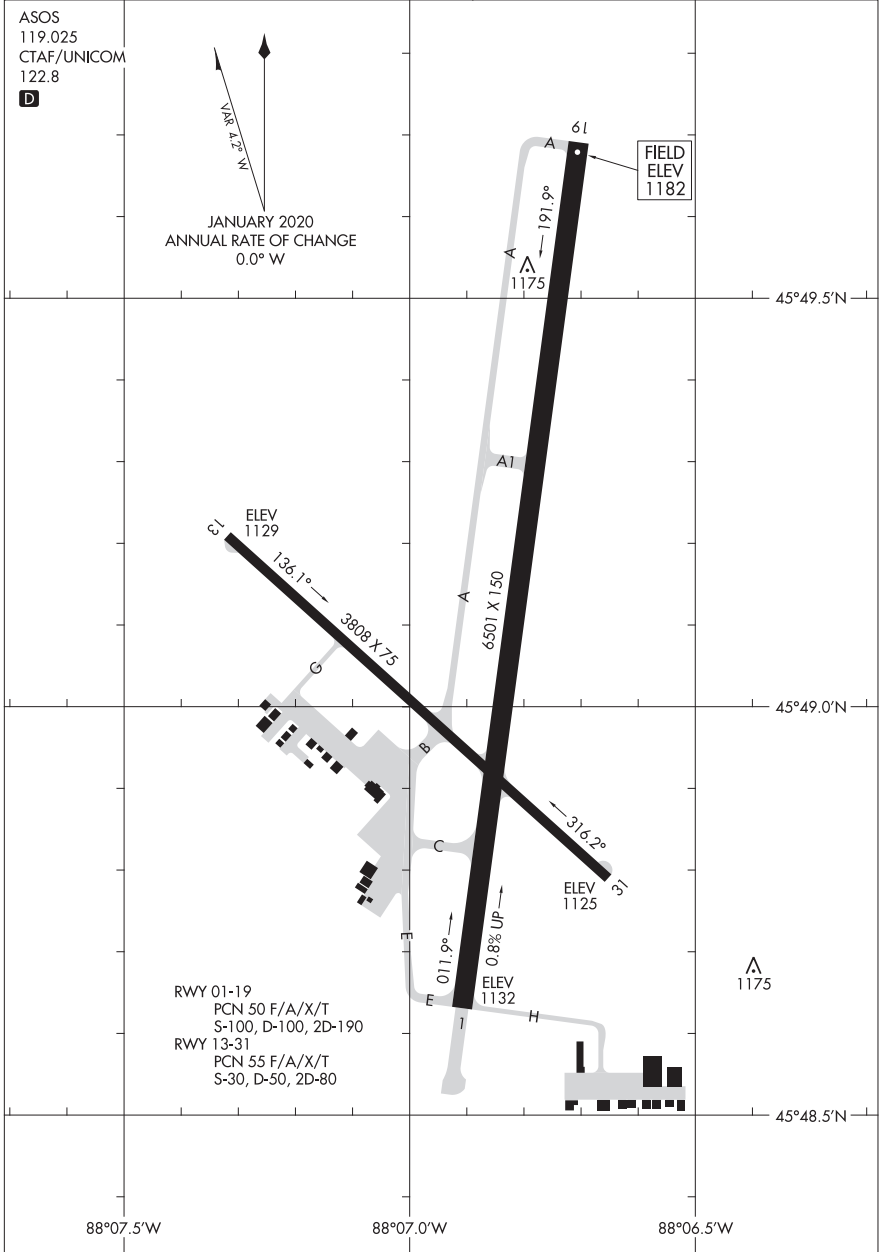
INDIANAPOLIS, INDIANA
INDIANAPOLIS RGNL (MQJ)

20254

AIRPORT DIAGRAM

AL-5347 (FAA)

FORD (IMT)
IRON MOUNTAIN KINGSFORD, MICHIGAN



AIRPORT DIAGRAM

20254

IRON MOUNTAIN KINGSFORD, MICHIGAN
FORD (IMT)

23222

JACKSON COUNTY/REYNOLDS FLD (JXN)

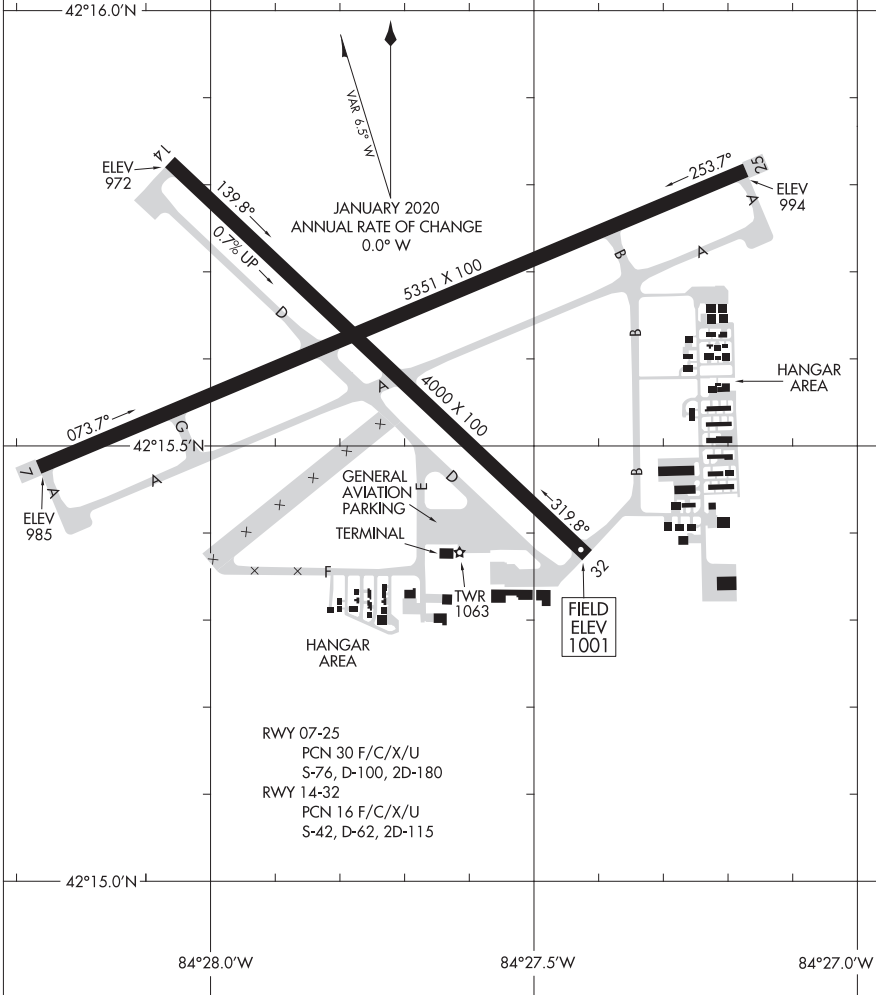
AIRPORT DIAGRAM

AL-861 (FAA)

JACKSON, MICHIGAN

ATIS
 125.725
 JACKSON TOWER ★
 128.475 257.8
 GND CON
 121.9
 CLNC DEL
 121.9

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



AIRPORT DIAGRAM

JACKSON, MICHIGAN

23222

JACKSON COUNTY/REYNOLDS FLD (JXN)

23222

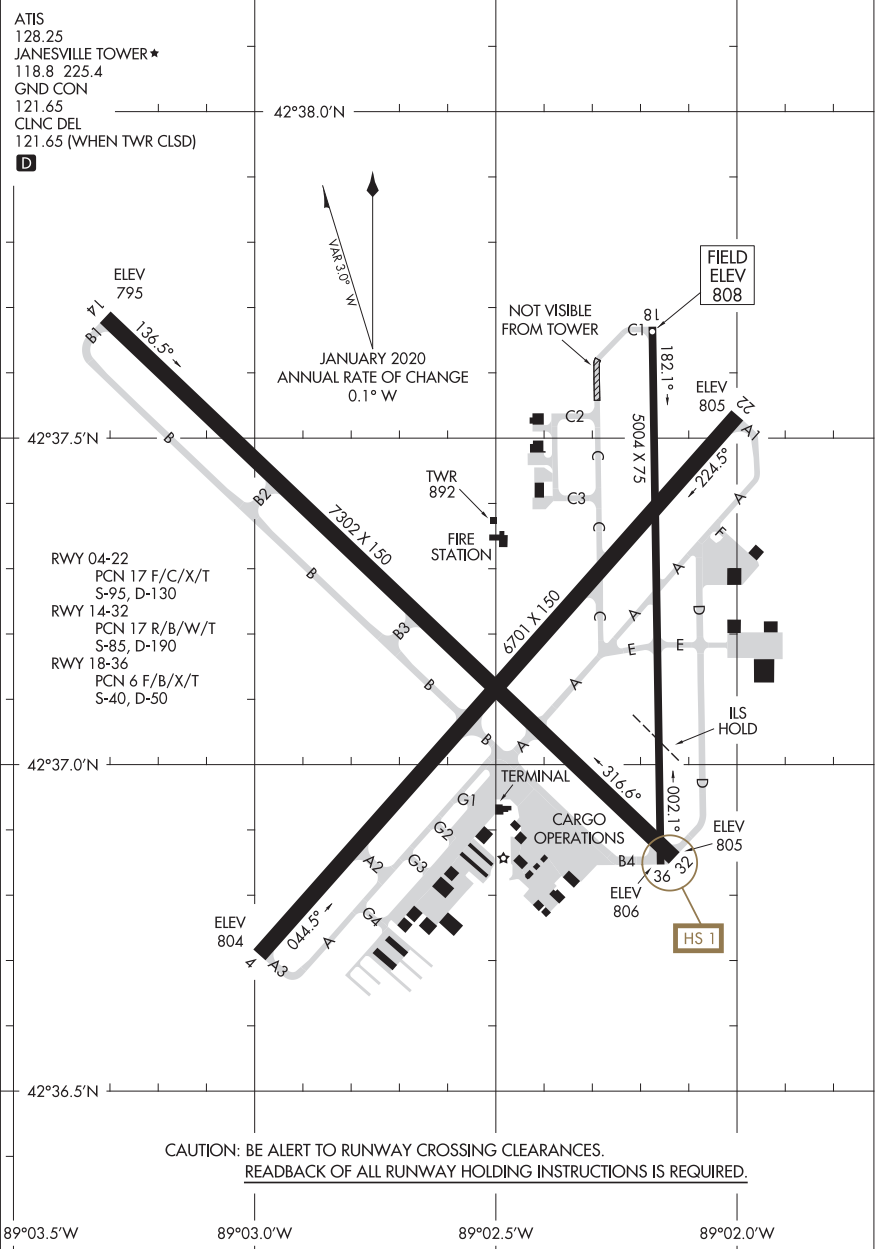
AIRPORT DIAGRAM

AL-938 (FAA)

SOUTHERN WISCONSIN RGNL (JVL)
JANESVILLE, WISCONSIN

ATIS
128.25
JANESVILLE TOWER ★
118.8 225.4
GND CON
121.65
CLNC DEL
121.65 (WHEN TWR CLSD)

D



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

23222

JANESVILLE, WISCONSIN
SOUTHERN WISCONSIN RGNL (JVL)

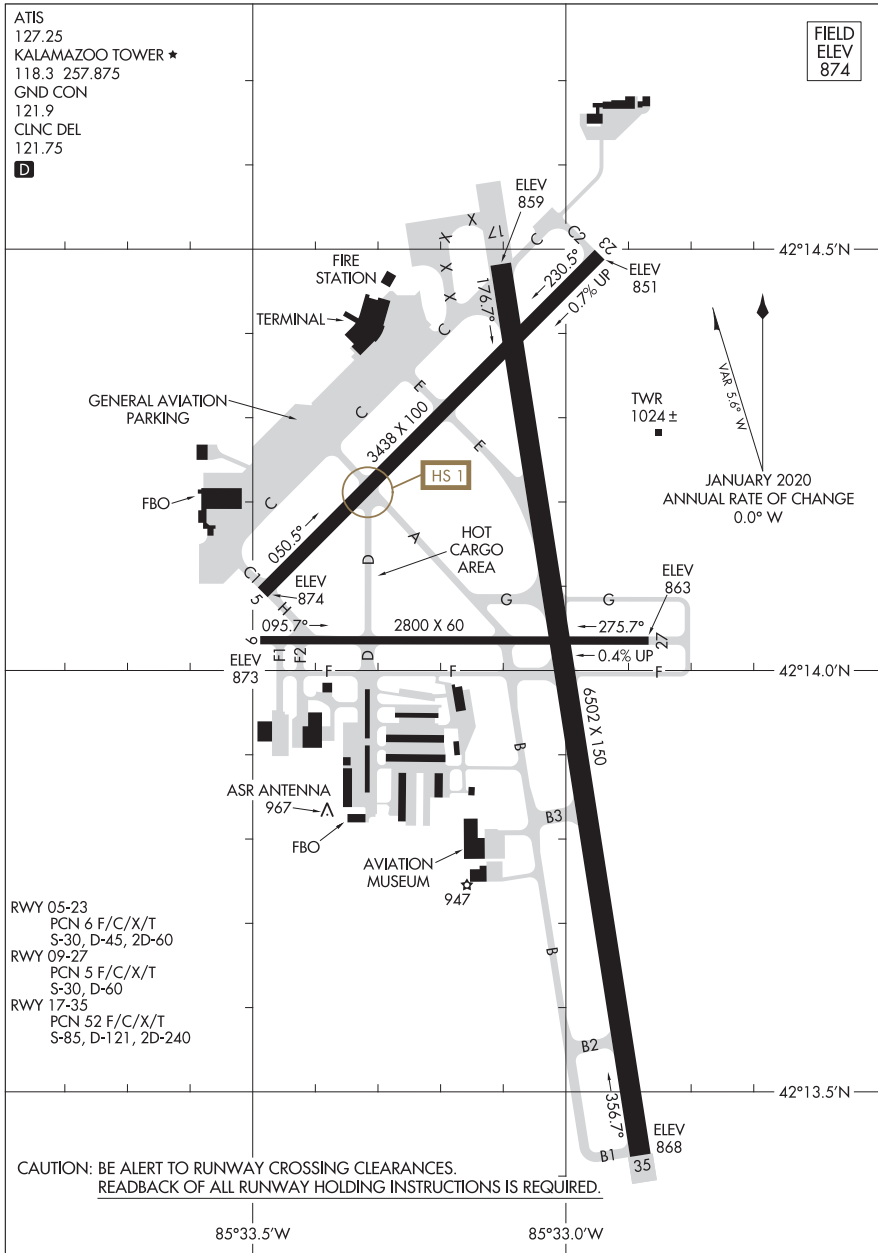
20086

KALAMAZOO/BATTLE CREEK INTL (AZO)

AIRPORT DIAGRAM

AL-717 (FAA)

KALAMAZOO, MICHIGAN



AIRPORT DIAGRAM

20086

KALAMAZOO, MICHIGAN

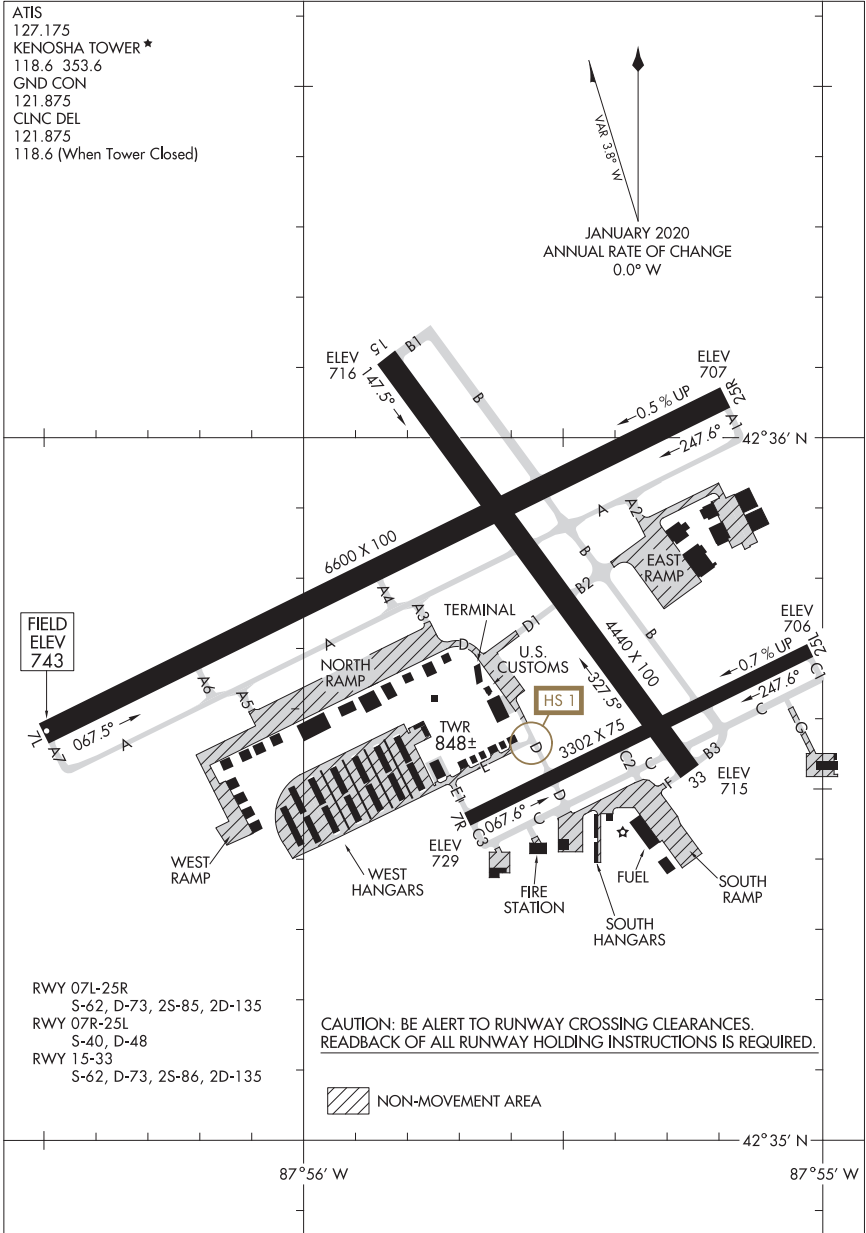
KALAMAZOO/BATTLE CREEK INTL (AZO)

23278

AIRPORT DIAGRAM

AL-5449 (FAA)

KENOSHA RGNL (ENW)
KENOSHA, WISCONSIN



AIRPORT DIAGRAM

23278

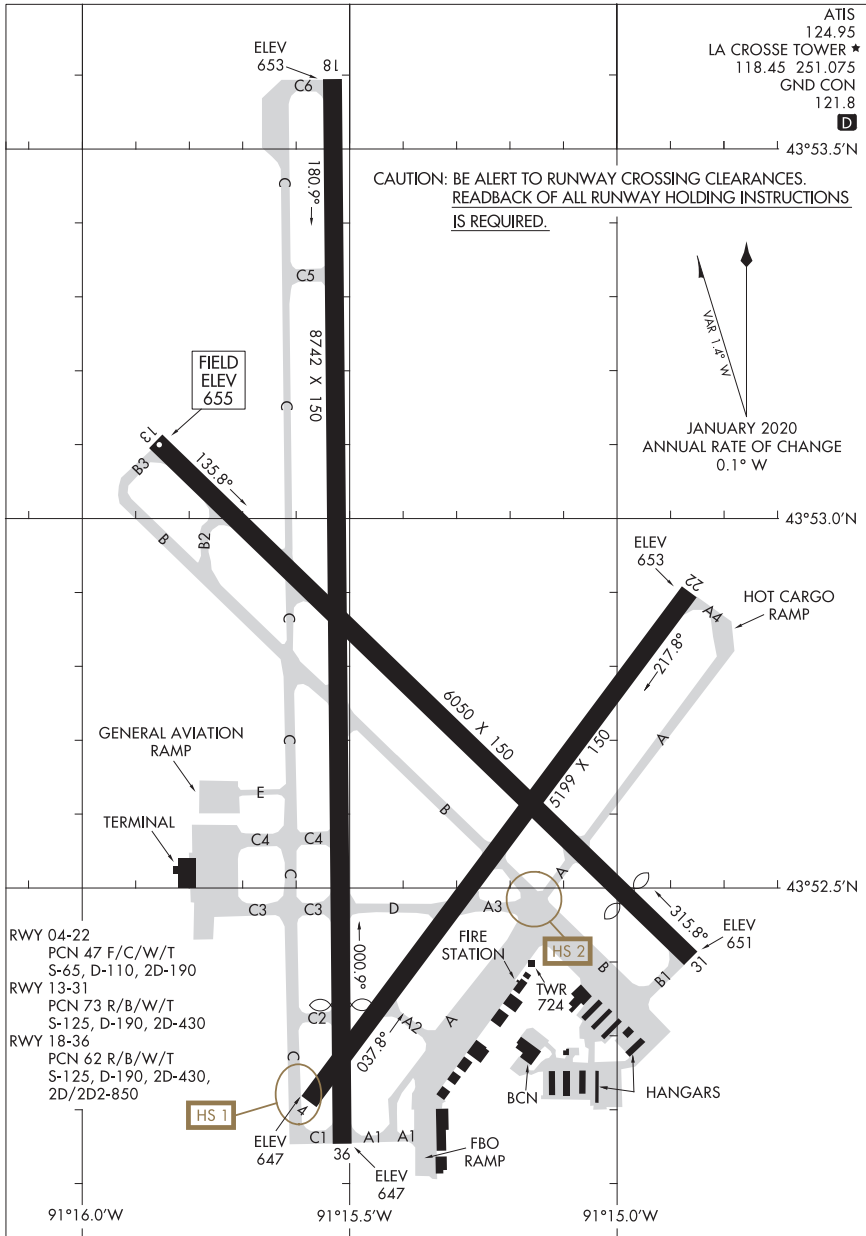
KENOSHA, WISCONSIN
KENOSHA RGNL (ENW)

22139

AIRPORT DIAGRAM

AL-219 (FAA)

LA CROSSE RGNL (LSE)
LA CROSSE, WISCONSIN



AIRPORT DIAGRAM

22139

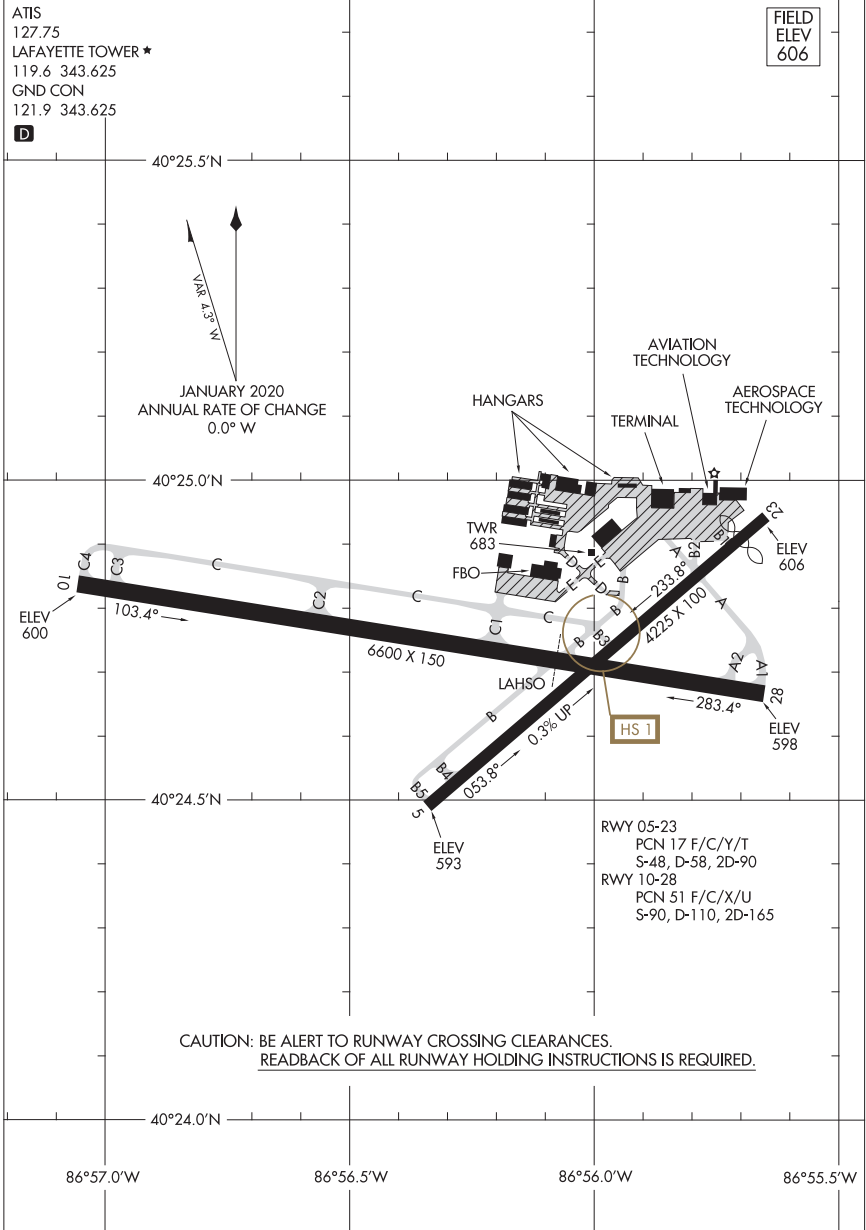
LA CROSSE, WISCONSIN
LA CROSSE RGNL (LSE)

24025

AIRPORT DIAGRAM

AL-220 (FAA)

PURDUE UNIVERSITY (LAF)
LAFAYETTE, INDIANA



AIRPORT DIAGRAM

24025

LAFAYETTE, INDIANA
PURDUE UNIVERSITY (LAF)

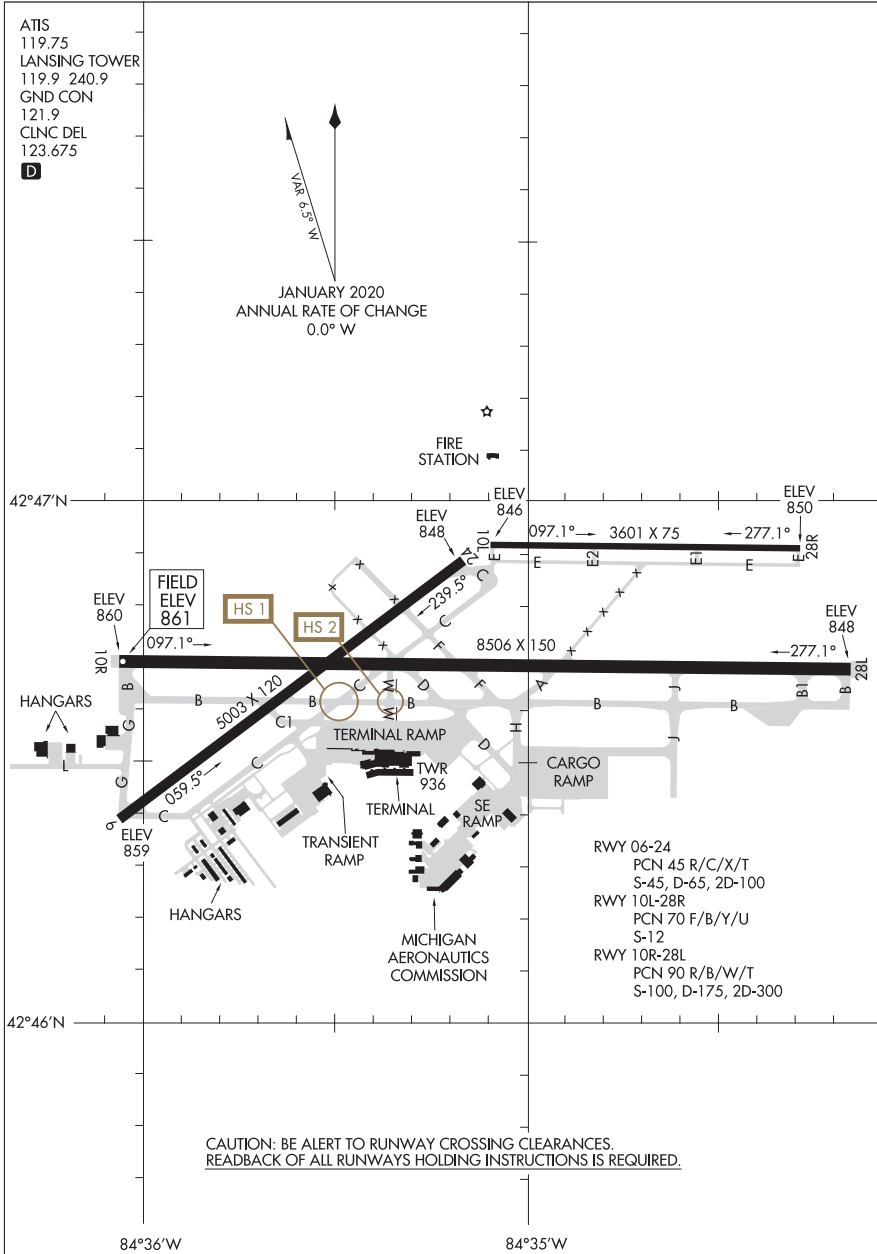
22363

AIRPORT DIAGRAM

AL-224 (FAA)

CAPITAL REGION INTL (L.A.N)

LANSING, MICHIGAN



AIRPORT DIAGRAM

22363

LANSING, MICHIGAN

CAPITAL REGION INTL (L.A.N)

24025

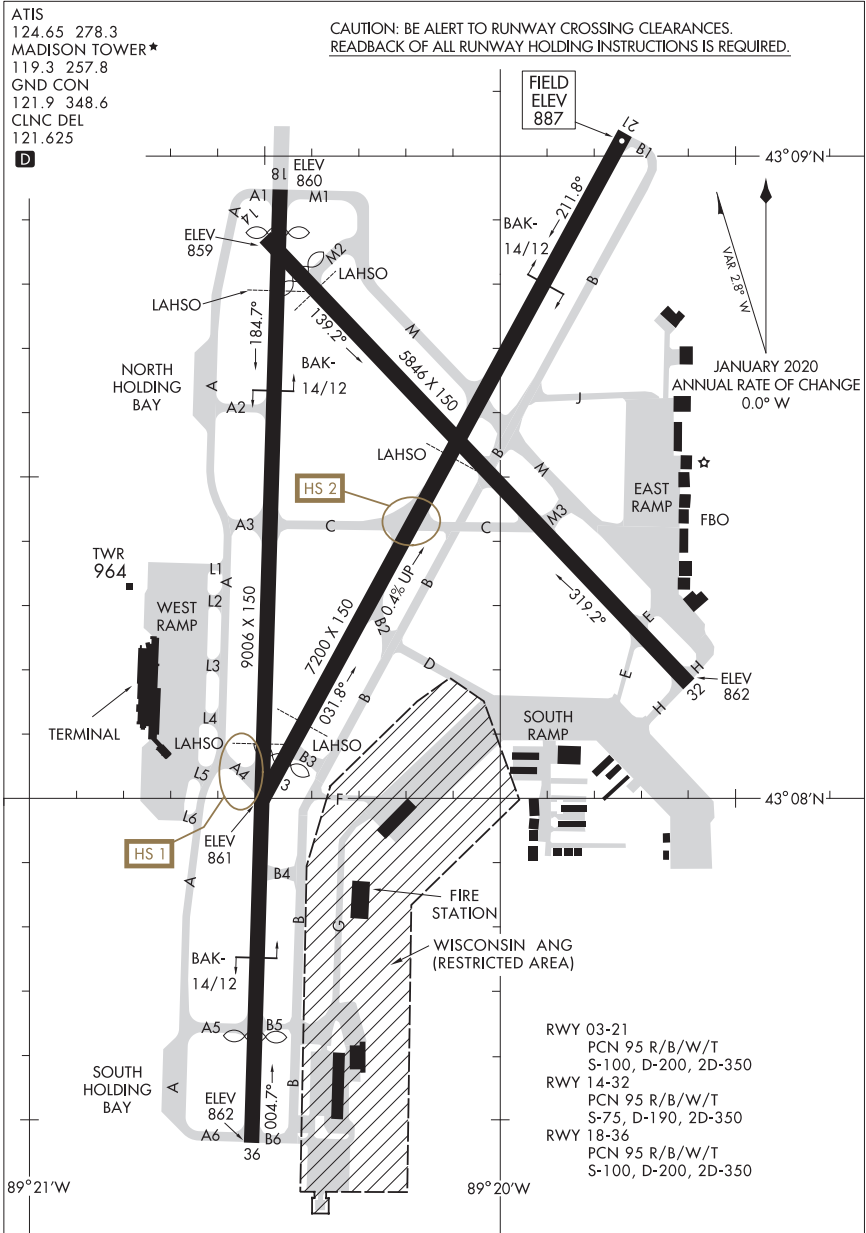
AIRPORT DIAGRAM

DANE COUNTY RGNL/TRUAX FLD (MSN)
MADISON, WISCONSIN

AL-245 (FAA)

ATIS
124.65 278.3
MADISON TOWER*
119.3 257.8
GND CON
121.9 348.6
CLNC DEL
121.625

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



AIRPORT DIAGRAM
24025

MADISON, WISCONSIN
DANE COUNTY RGNL/TRUAX FLD (MSN)

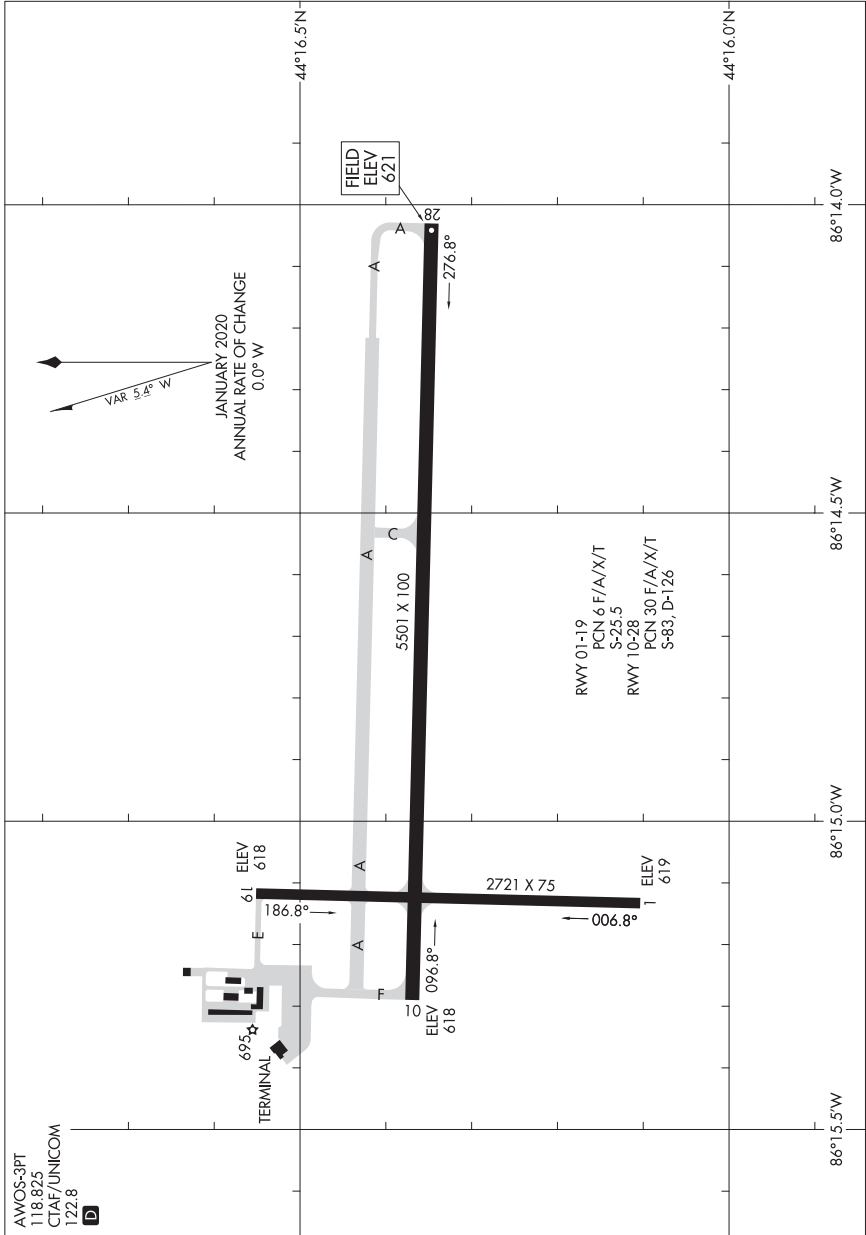
21336

AIRPORT DIAGRAM

AL-5257 (FAA)

MANISTEE COUNTY/BLACKER (MBL)

MANISTEE, MICHIGAN



AIRPORT DIAGRAM

21336

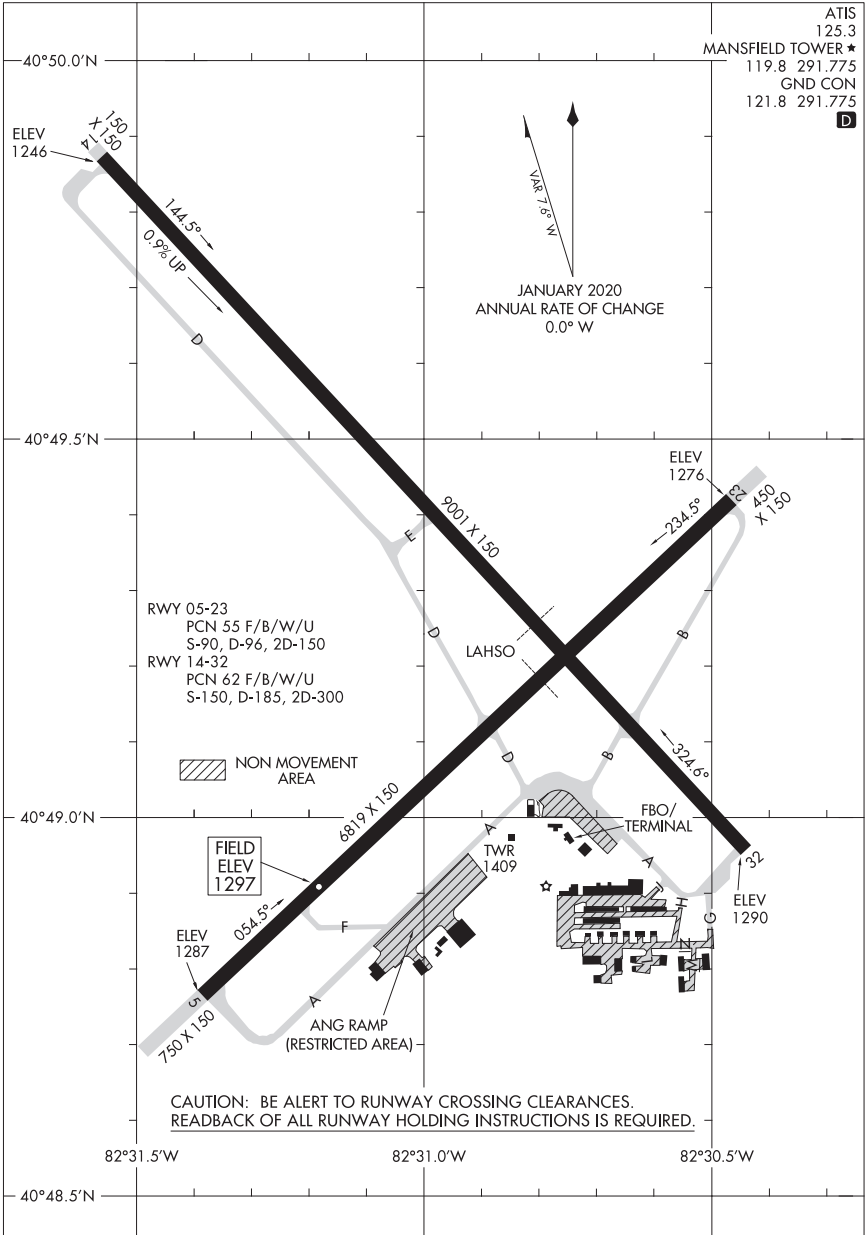
MANISTEE, MICHIGAN
MANISTEE COUNTY/BLACKER (MBL)

22195

AIRPORT DIAGRAM

AL-860 (FAA)

MANSFIELD LAHM RGNL (MFD)
MANSFIELD, OHIO



AIRPORT DIAGRAM

22195

MANSFIELD, OHIO
MANSFIELD LAHM RGNL (MFD)

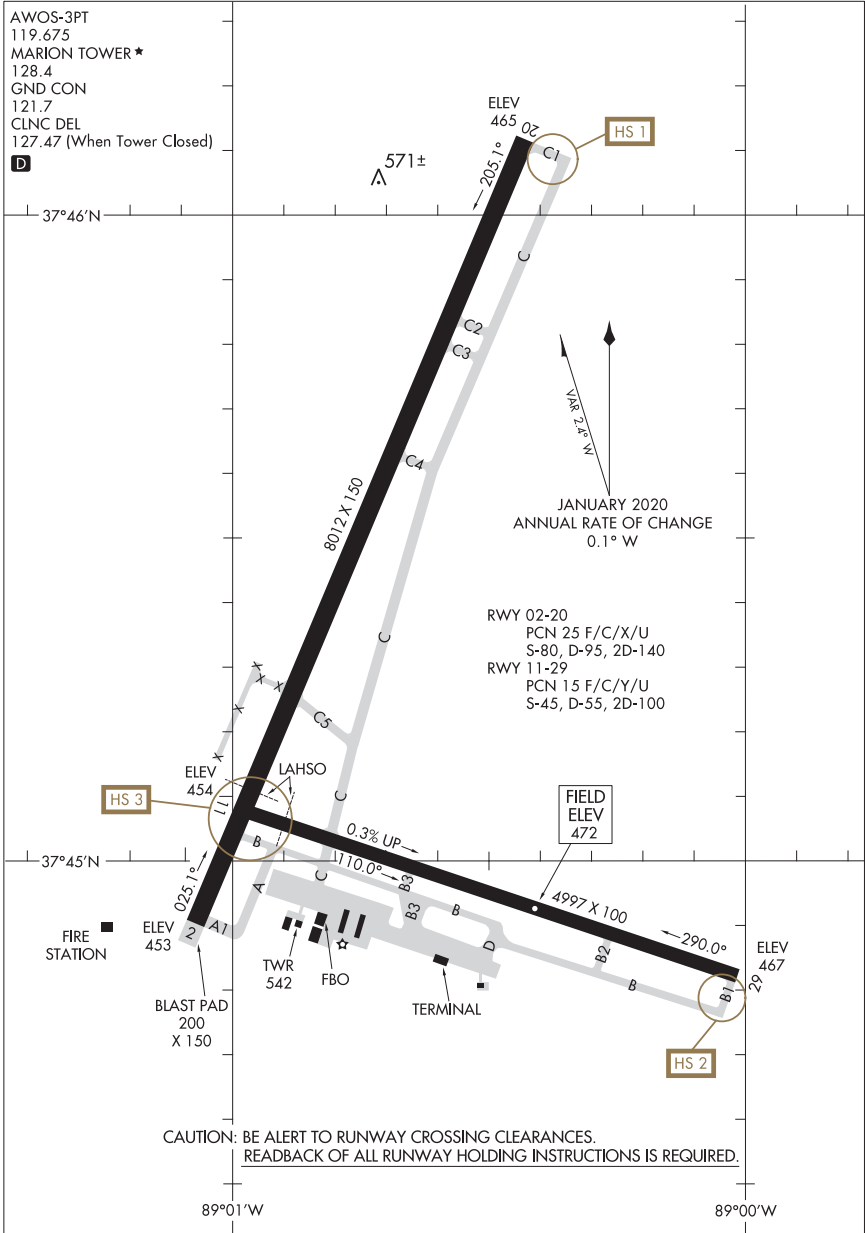
23334

AIRPORT DIAGRAM

VETERANS AIRPORT OF SOUTHERN ILLINOIS (MVA)

AL-5215 (FAA)

MARION, ILLINOIS



AIRPORT DIAGRAM

23334

VETERANS AIRPORT OF SOUTHERN ILLINOIS (MVA)

MARION, ILLINOIS

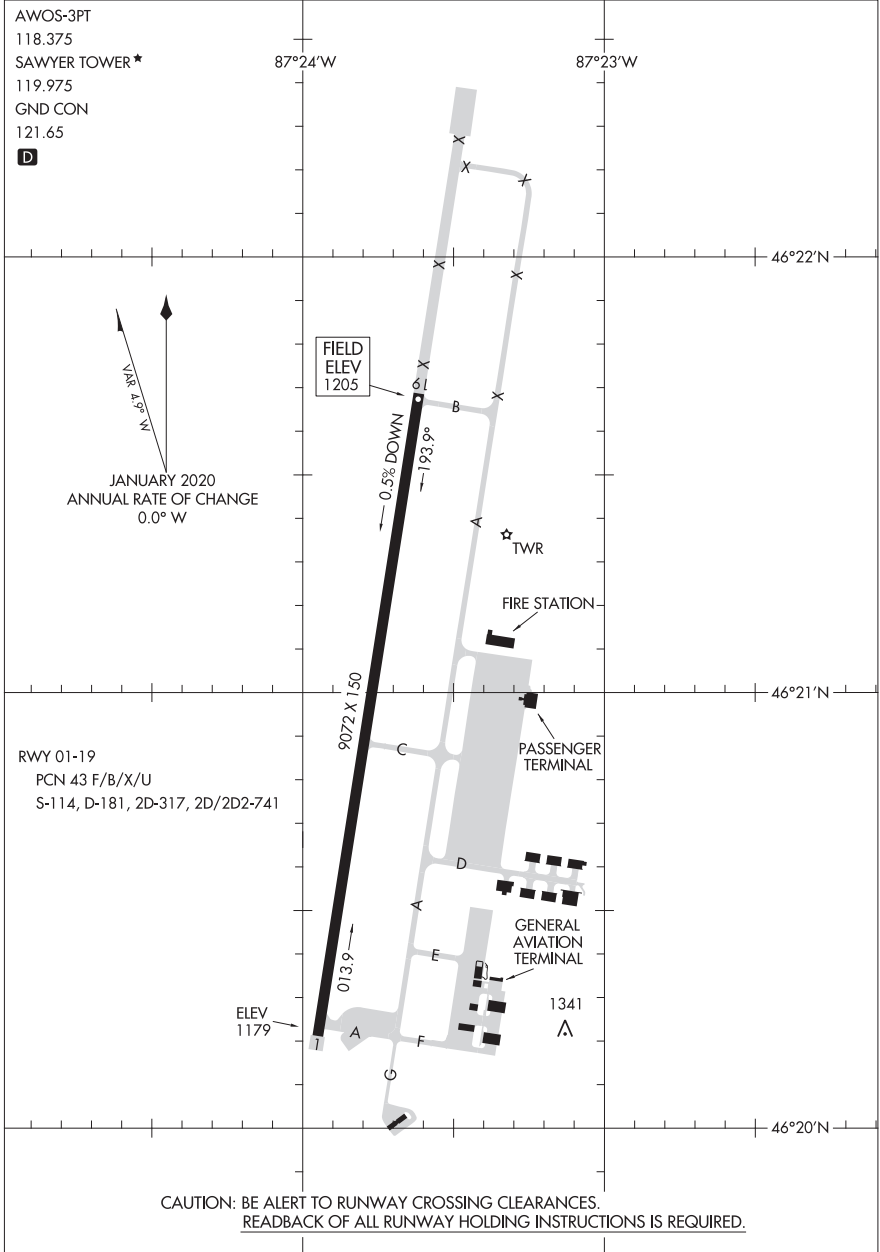
24025

AIRPORT DIAGRAM

MARQUETTE/SAWYER RGNL (S.A.W)

AL-773 (FAA)

MARQUETTE, MICHIGAN



AWOS-3PT
 118.375
 SAWYER TOWER ★
 119.975
 GND CON
 121.65
 D

RWY 01-19
 PCN 43 F/B/X/U
 S-114, D-181, 2D-317, 2D/2D2-741

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

24025

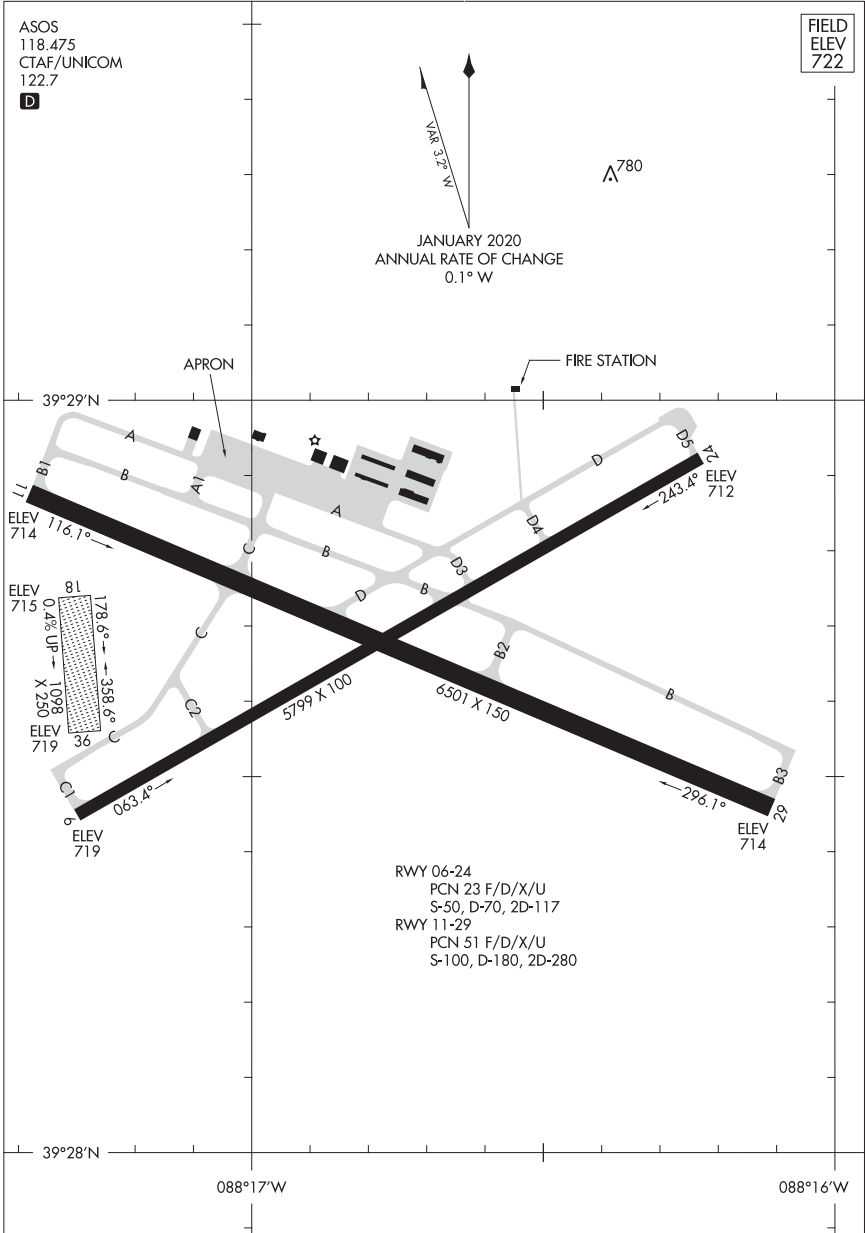
MARQUETTE, MICHIGAN
MARQUETTE/SAWYER RGNL (S.A.W)

22027

AIRPORT DIAGRAM

AL-5180 (FAA)

COLES COUNTY MEML (MTO)
MATTOON/CHARLESTON, ILLINOIS



AIRPORT DIAGRAM

22027

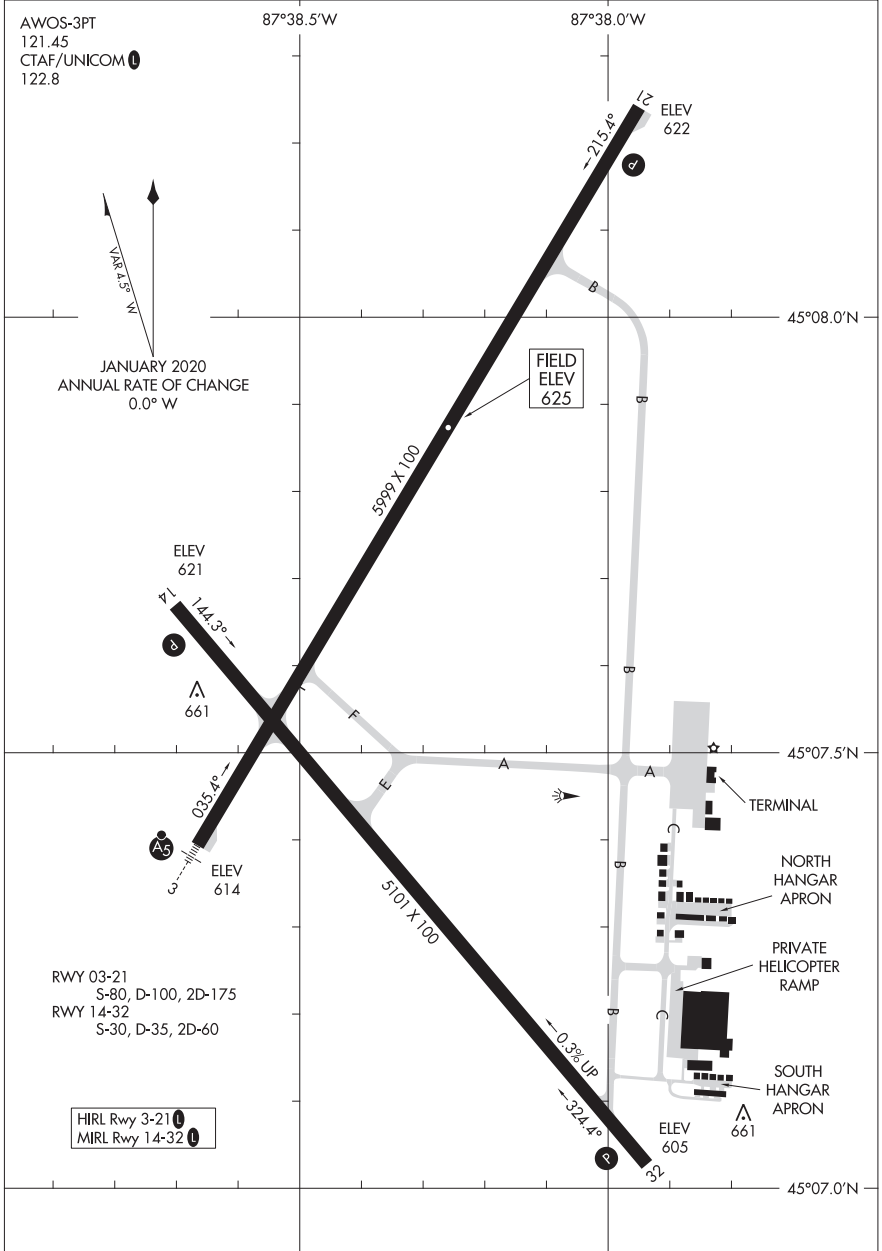
MATTOON/CHARLESTON, ILLINOIS
COLES COUNTY MEML (MTO)

24025

AIRPORT DIAGRAM

AL-5145 (FAA)

MENOMINEE RGNL (MNM)
MENOMINEE, MICHIGAN



AIRPORT DIAGRAM

24025

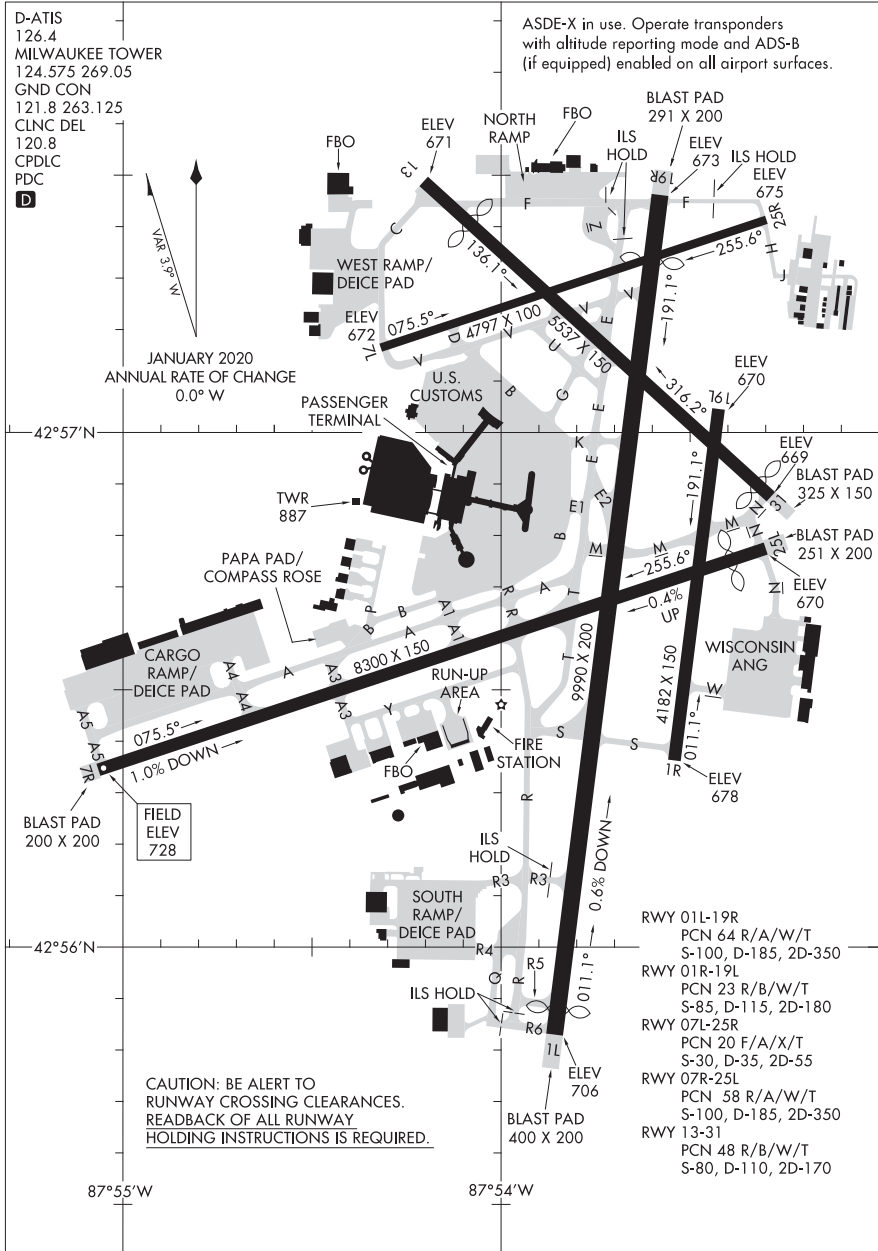
MENOMINEE, MICHIGAN
MENOMINEE RGNL (MNM)

23222

AIRPORT DIAGRAM

AL-262 (FAA)

GENERAL MITCHELL INTL (MKE)
MILWAUKEE, WISCONSIN



AIRPORT DIAGRAM
23222

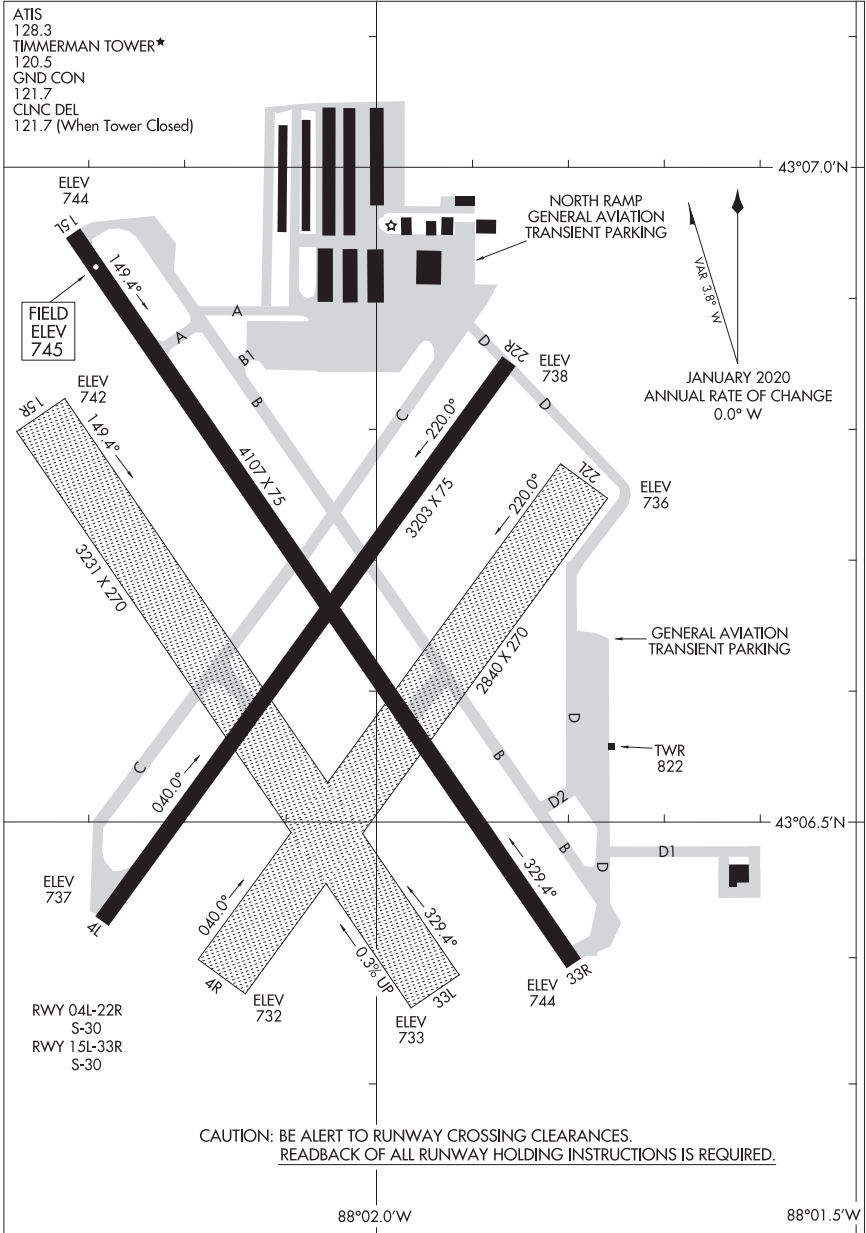
MILWAUKEE, WISCONSIN
GENERAL MITCHELL INTL (MKE)

23110

AIRPORT DIAGRAM

AL-5077 (FAA)

LAWRENCE J TIMMERMAN (MWC)
MILWAUKEE, WISCONSIN



AIRPORT DIAGRAM

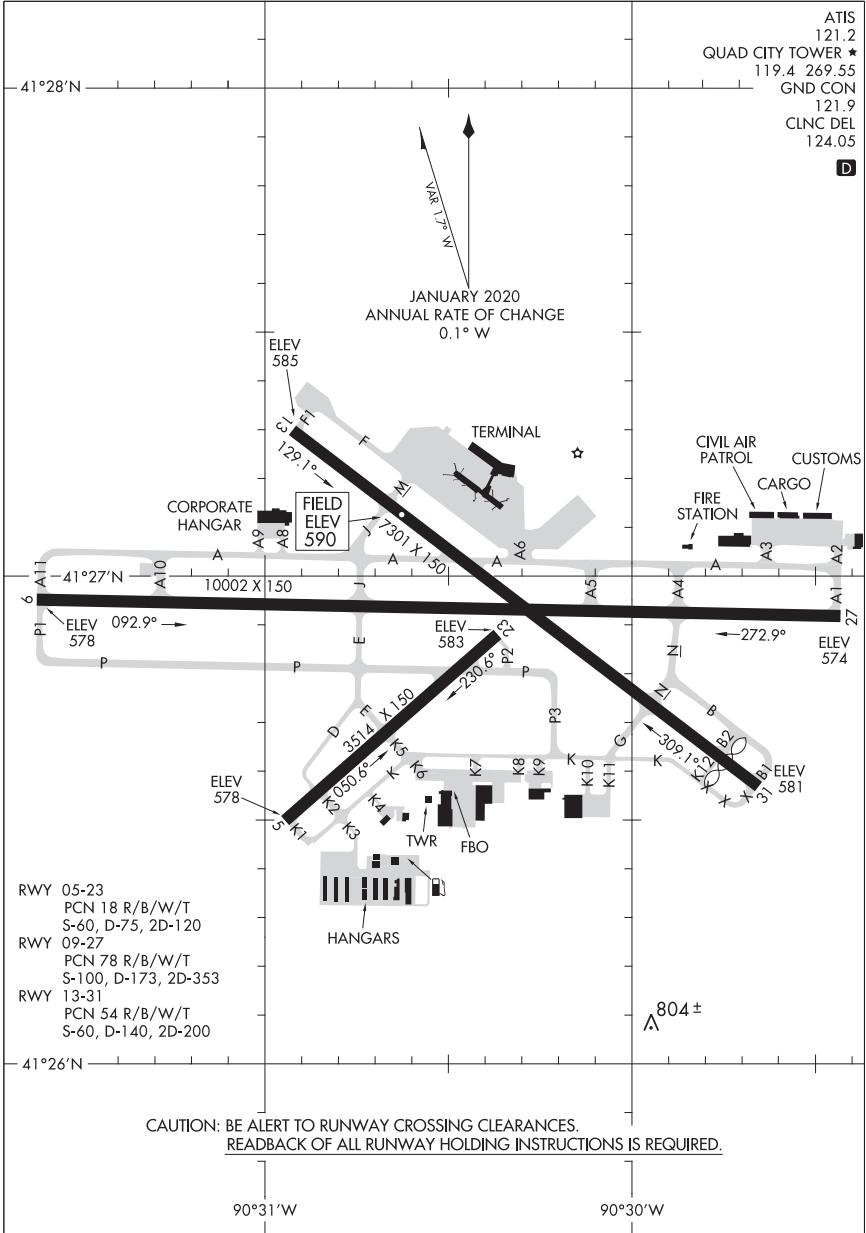
23110

MILWAUKEE, WISCONSIN
LAWRENCE J TIMMERMAN (MWC)

23222
AIRPORT DIAGRAM

AL-269 (FAA)

QUAD CITIES INTL (MLI)
MOLINE, ILLINOIS



AIRPORT DIAGRAM
23222

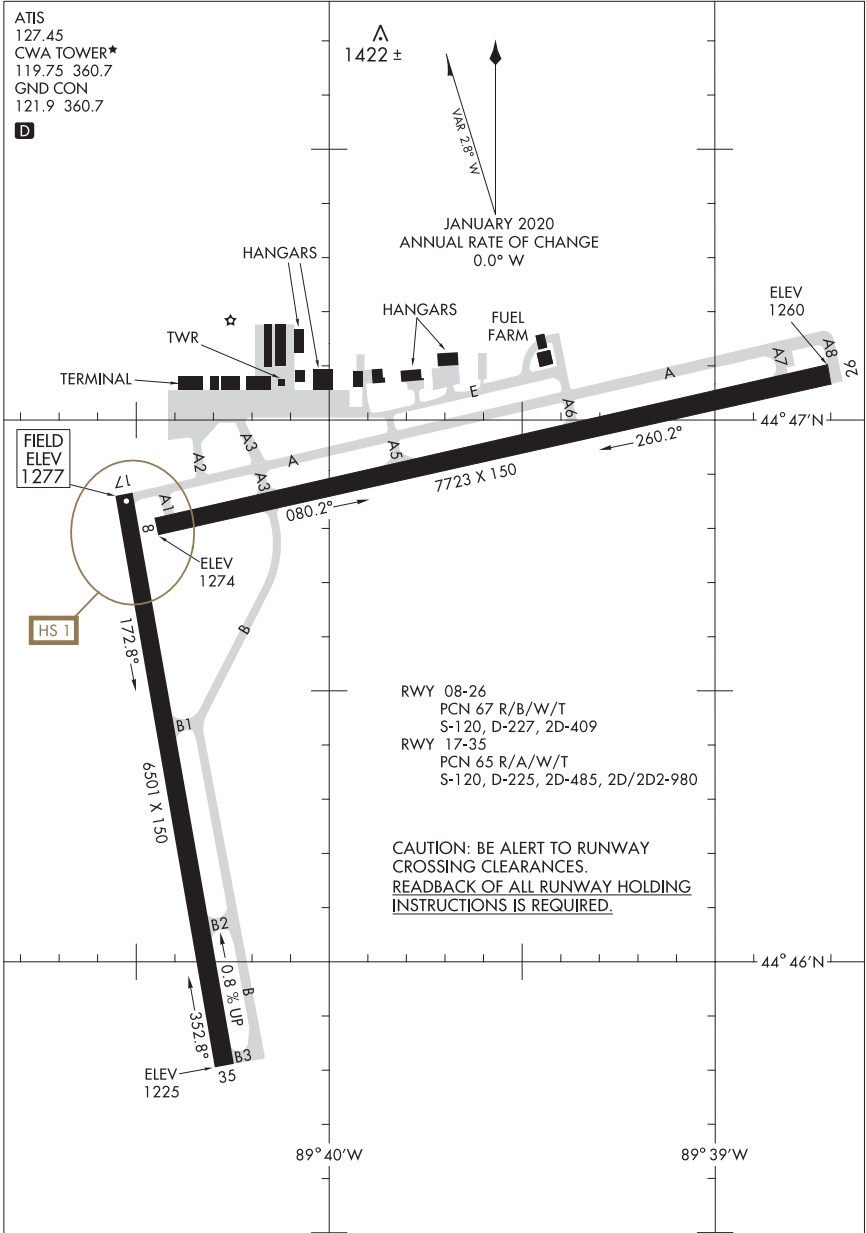
MOLINE, ILLINOIS
QUAD CITIES INTL (MLI)

23222

AIRPORT DIAGRAM

AL-5674 (FAA)

CENTRAL WISCONSIN (CWA)
MOSINEE, WISCONSIN



AIRPORT DIAGRAM

23222

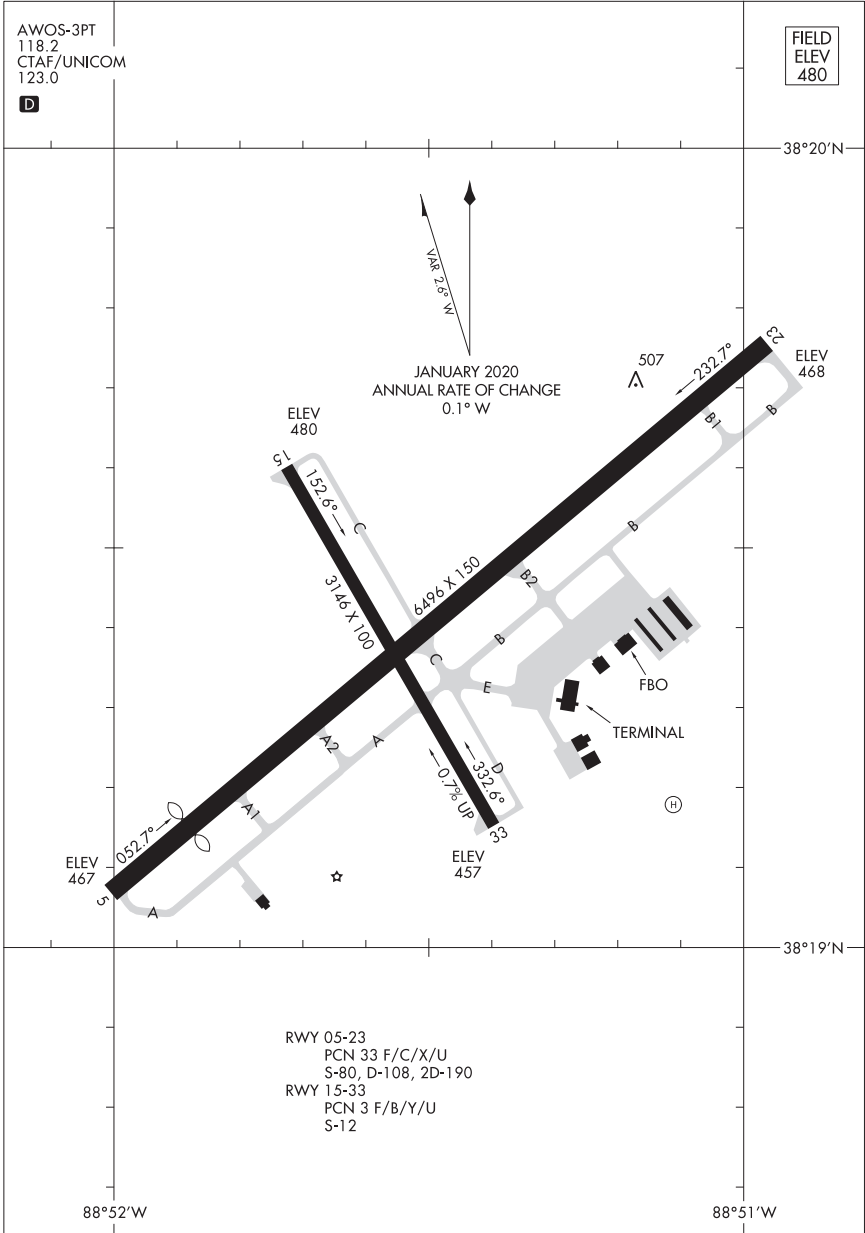
MOSINEE, WISCONSIN
CENTRAL WISCONSIN (CWA)

22083

AIRPORT DIAGRAM

AL-5317 (FAA)

MOUNT VERNON (MVN)
MOUNT VERNON, ILLINOIS



AIRPORT DIAGRAM

22083

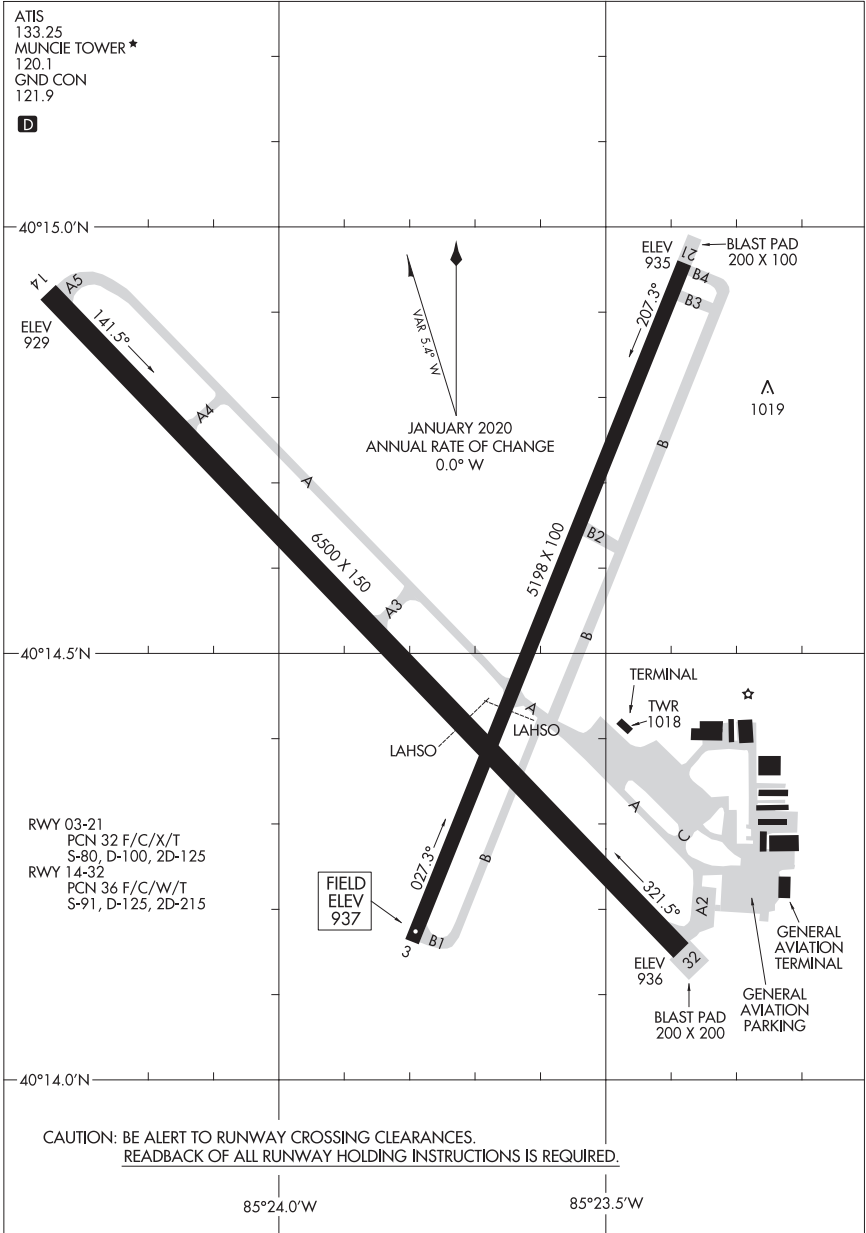
MOUNT VERNON, ILLINOIS
MOUNT VERNON (MVN)

23054

AIRPORT DIAGRAM

AL-5011 (FAA)

DELAWARE COUNTY RGNL (MIE)
MUNCIE, INDIANA



AIRPORT DIAGRAM

23054

MUNCIE, INDIANA
DELAWARE COUNTY RGNL (MIE)

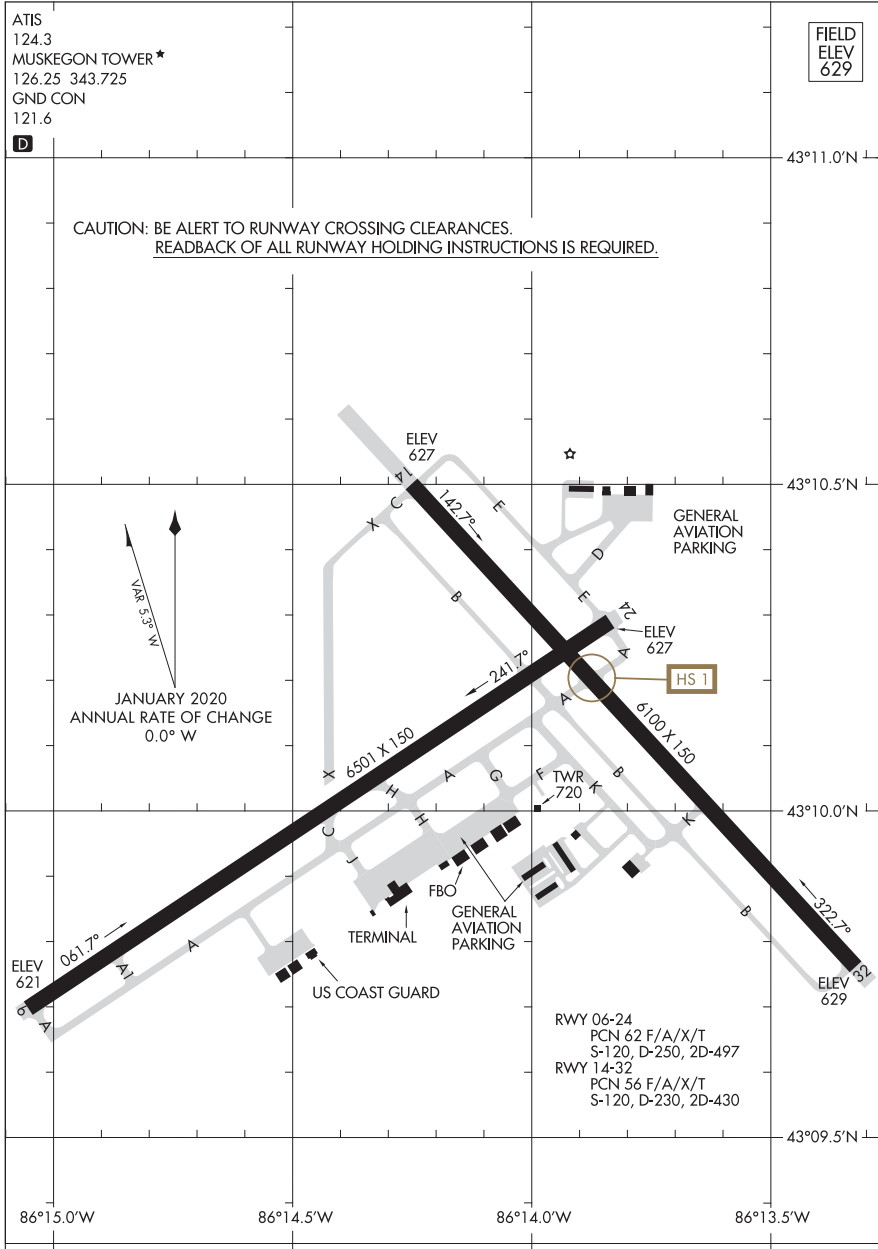
20366

AIRPORT DIAGRAM

AL-278 (FAA)

MUSKEGON COUNTY (MKG)

MUSKEGON, MICHIGAN



AIRPORT DIAGRAM

20366

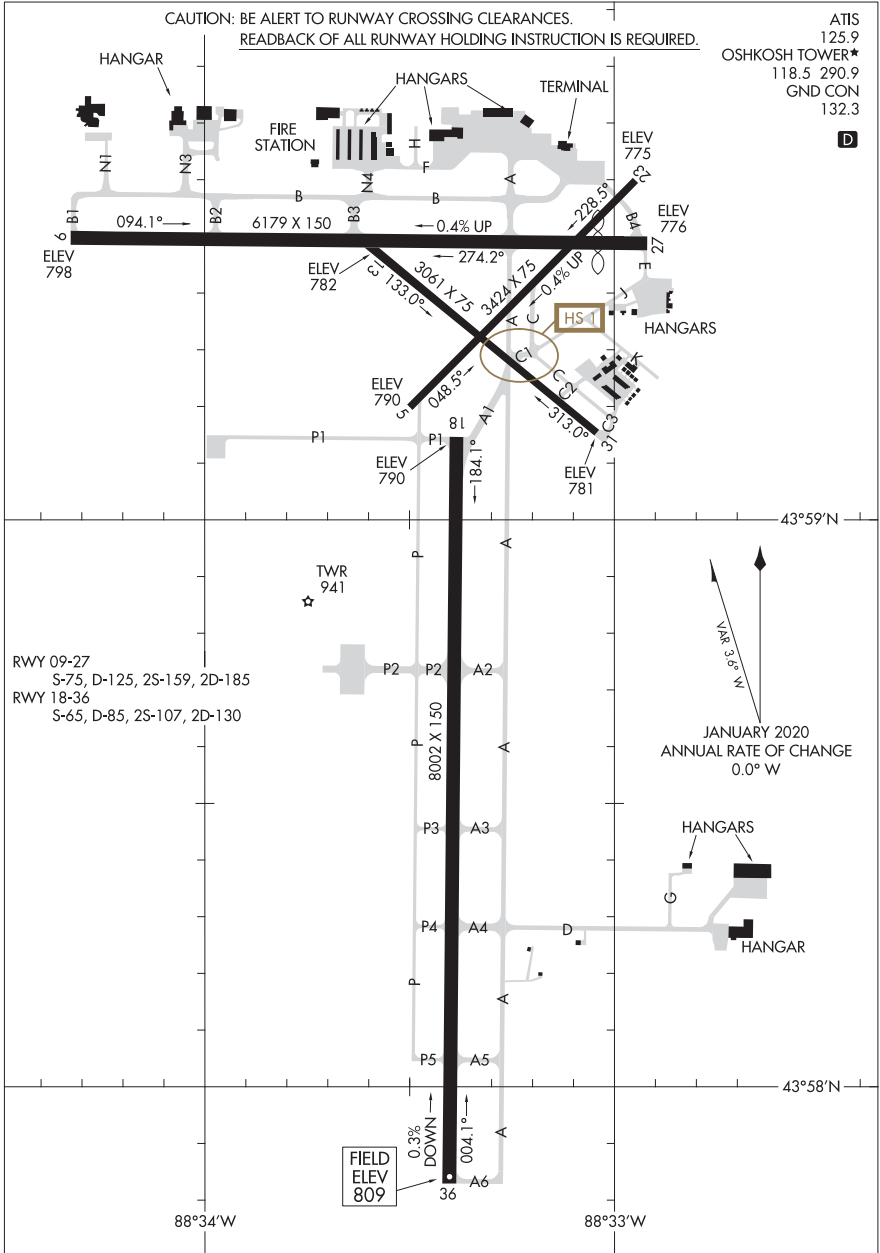
MUSKEGON, MICHIGAN

MUSKEGON COUNTY (MKG)

23222

AIRPORT DIAGRAM

WITTMAN RGNL (OSI)
OSHKOSH, WISCONSIN



AIRPORT DIAGRAM

23222

OSHKOSH, WISCONSIN
WITTMAN RGNL (OSI)

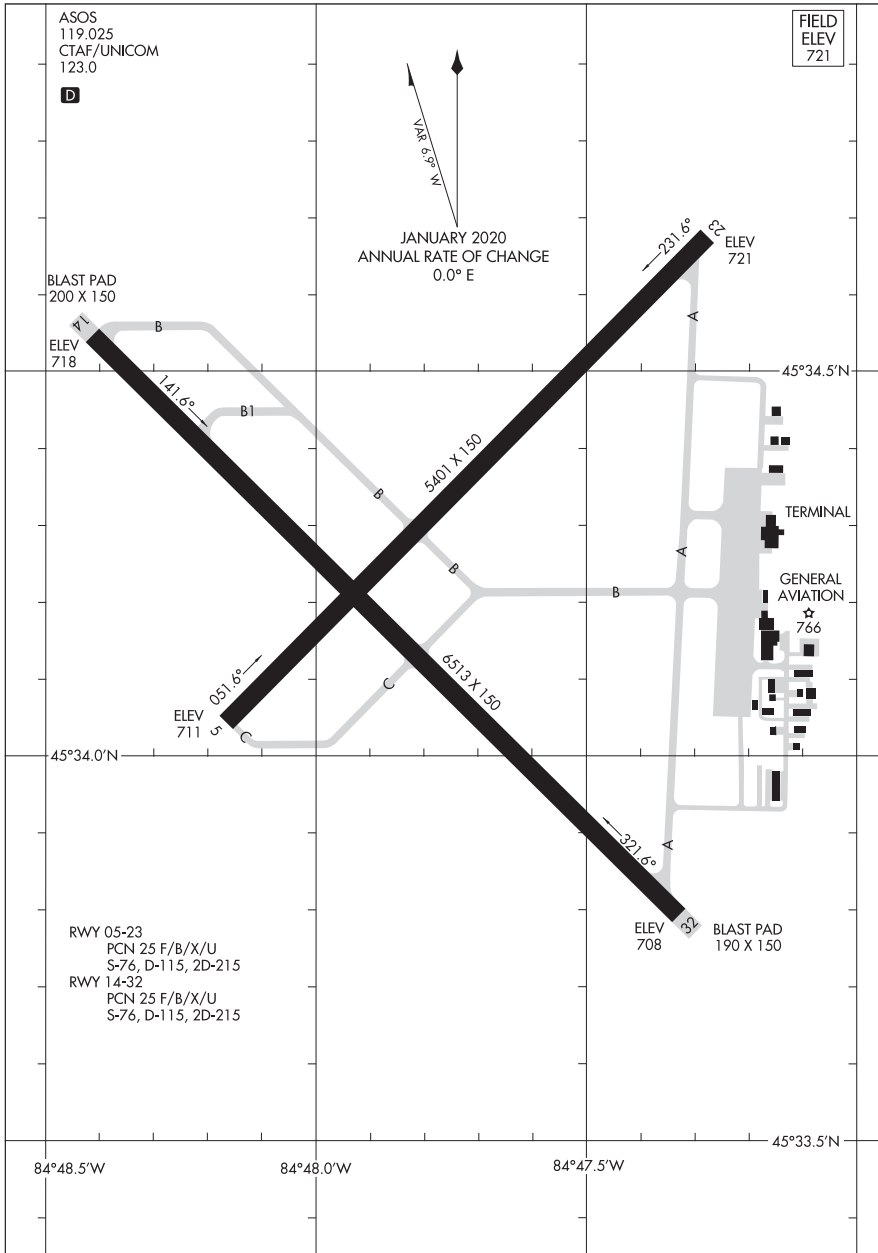
21112

AIRPORT DIAGRAM

PELLSTON RGNL/EMMET COUNTY (PLN)

AL-647 (FAA)

PELLSTON, MICHIGAN



AIRPORT DIAGRAM

21112

PELLSTON, MICHIGAN

PELLSTON RGNL/EMMET COUNTY (PLN)

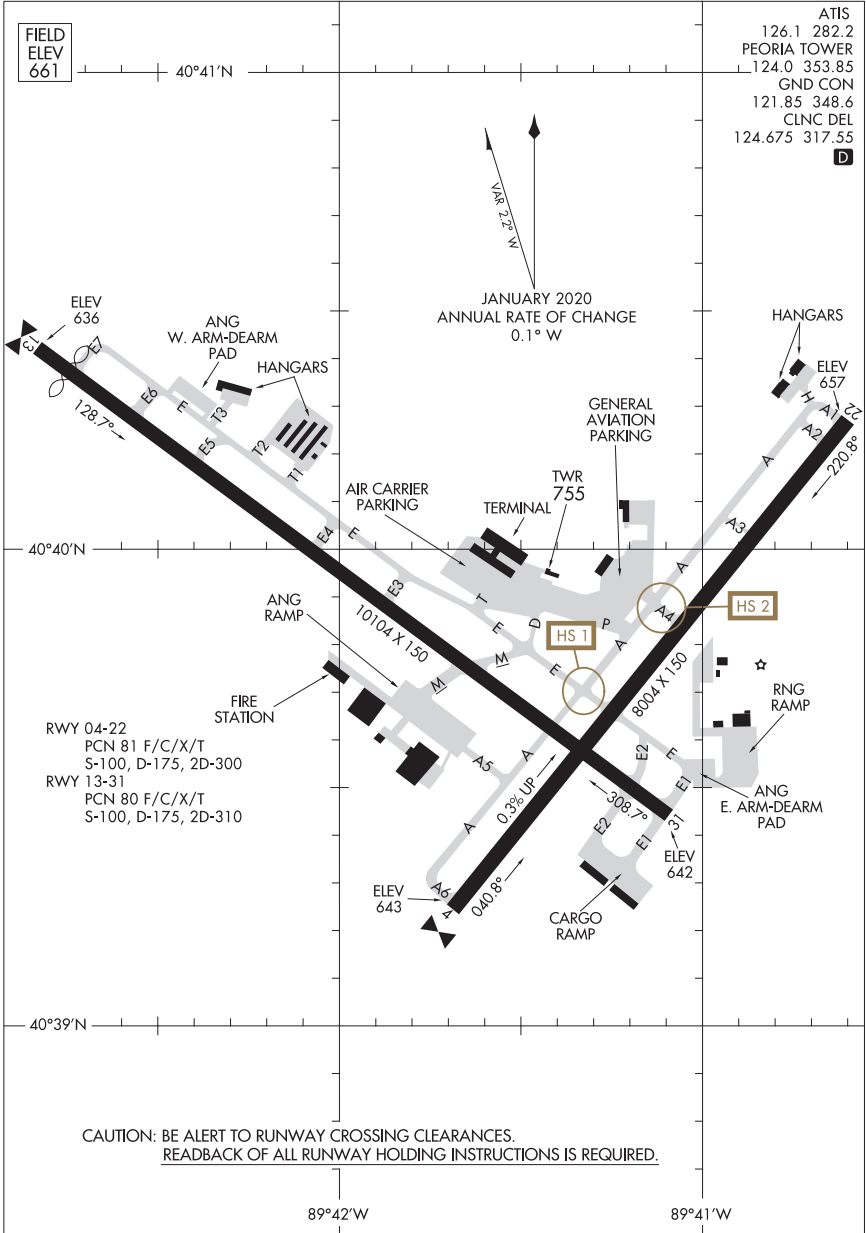
22251

AIRPORT DIAGRAM

GENERAL DOWNING - PEORIA INTL (PIA)

AL-597 (FAA)

PEORIA, ILLINOIS



ATIS	126.1	282.2
PEORIA TOWER	124.0	353.85
GND CON	121.85	348.6
CLNC DEL	124.675	317.55

AIRPORT DIAGRAM

22251

GENERAL DOWNING - PEORIA INTL (PIA)

PEORIA, ILLINOIS

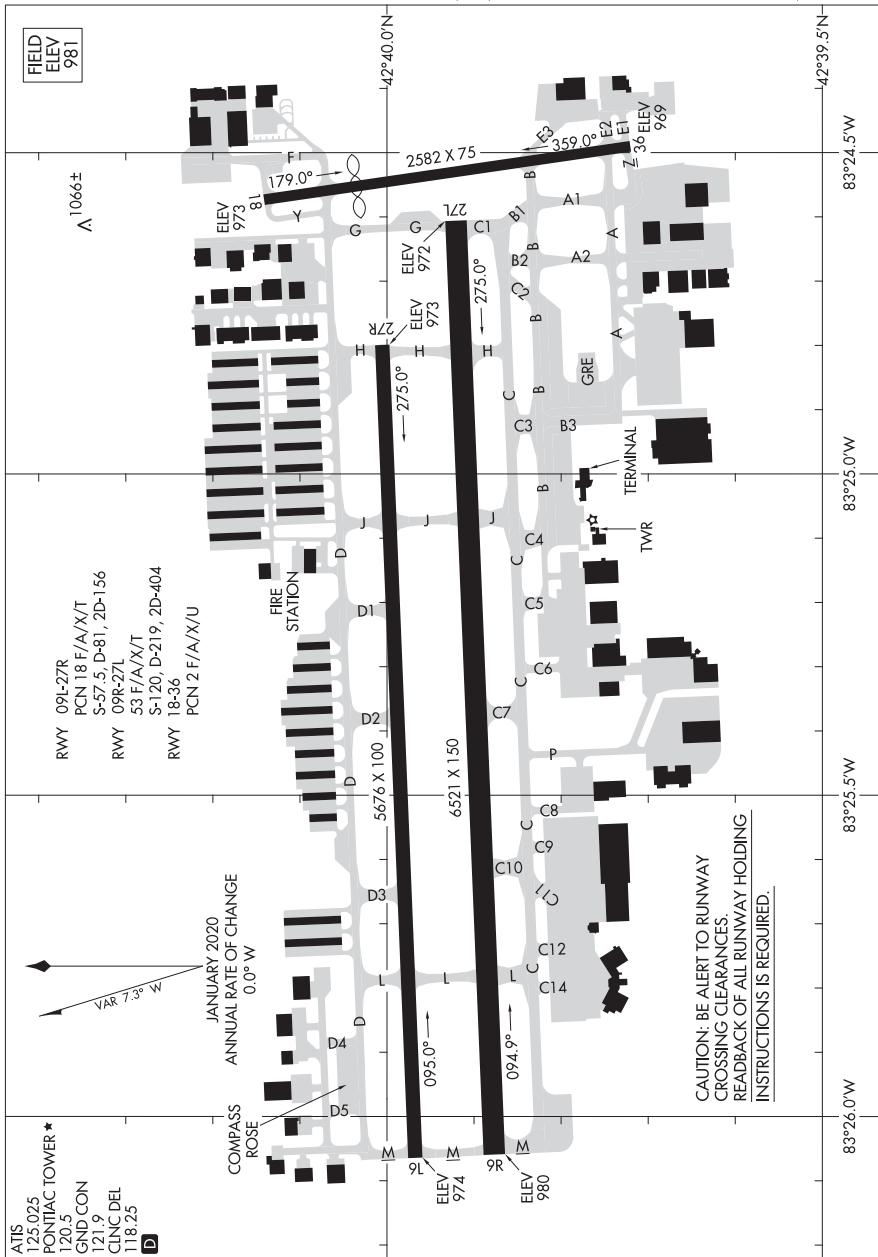
23222

OAKLAND COUNTY INTL (PTK)

AIRPORT DIAGRAM

AL-5052 (FAA)

PONTIAC, MICHIGAN



AIRPORT DIAGRAM

PONTIAC, MICHIGAN

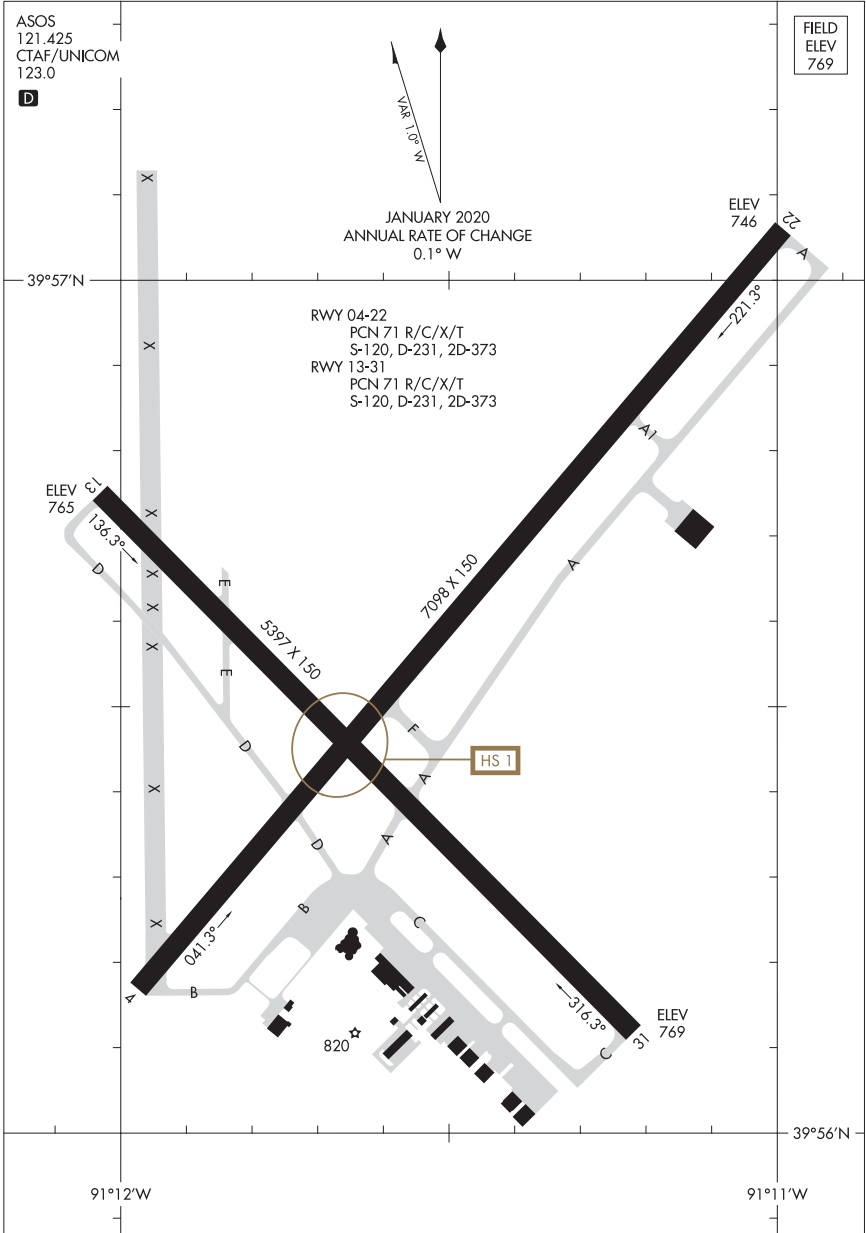
OAKLAND COUNTY INTL (PTK)

23222

23166

AIRPORT DIAGRAM

QUINCY RGNL-BALDWIN FLD (UIN)
QUINCY, ILLINOIS



AIRPORT DIAGRAM

23166

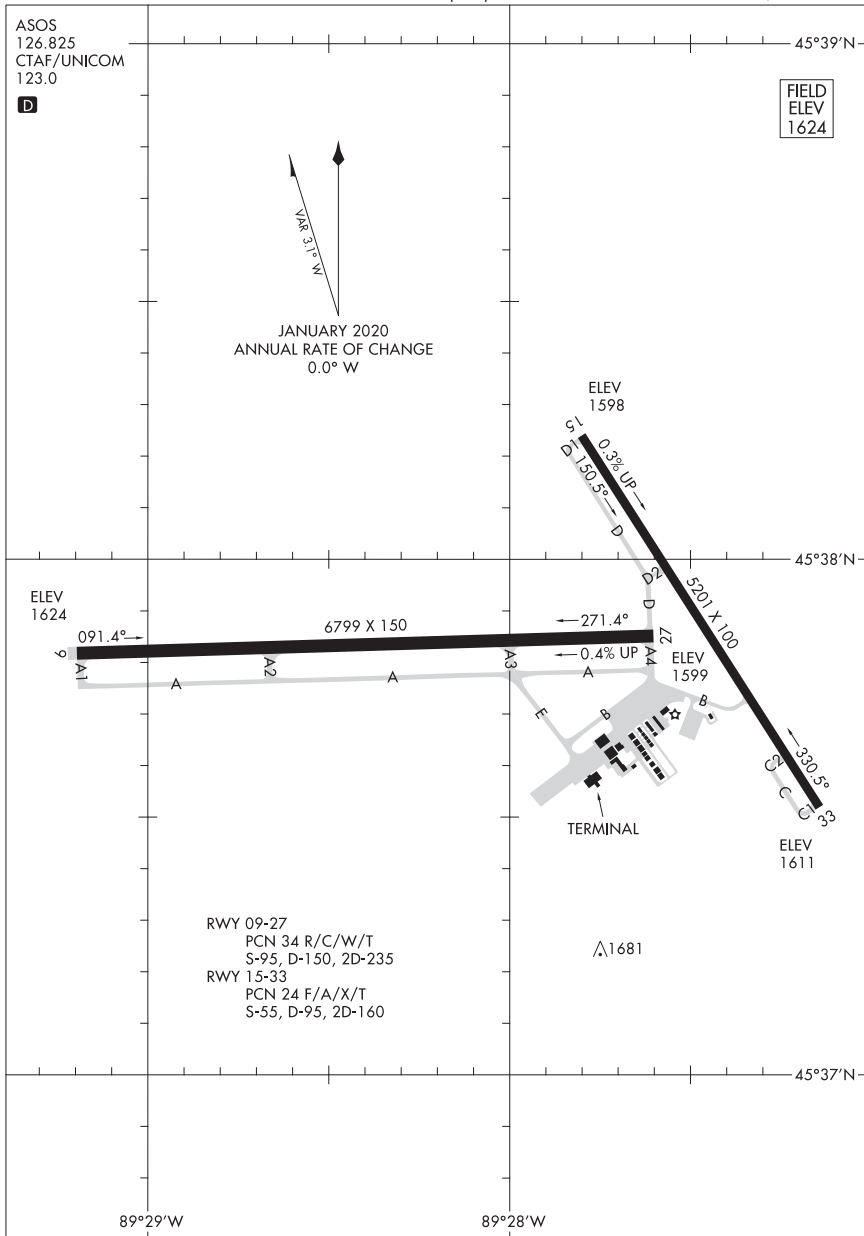
QUINCY, ILLINOIS
QUINCY RGNL-BALDWIN FLD (UIN)

21336

AIRPORT DIAGRAM

AL-5085 (FAA)

RHINELANDER/ONEIDA COUNTY (R.H.I)
RHINELANDER, WISCONSIN



AIRPORT DIAGRAM

21336

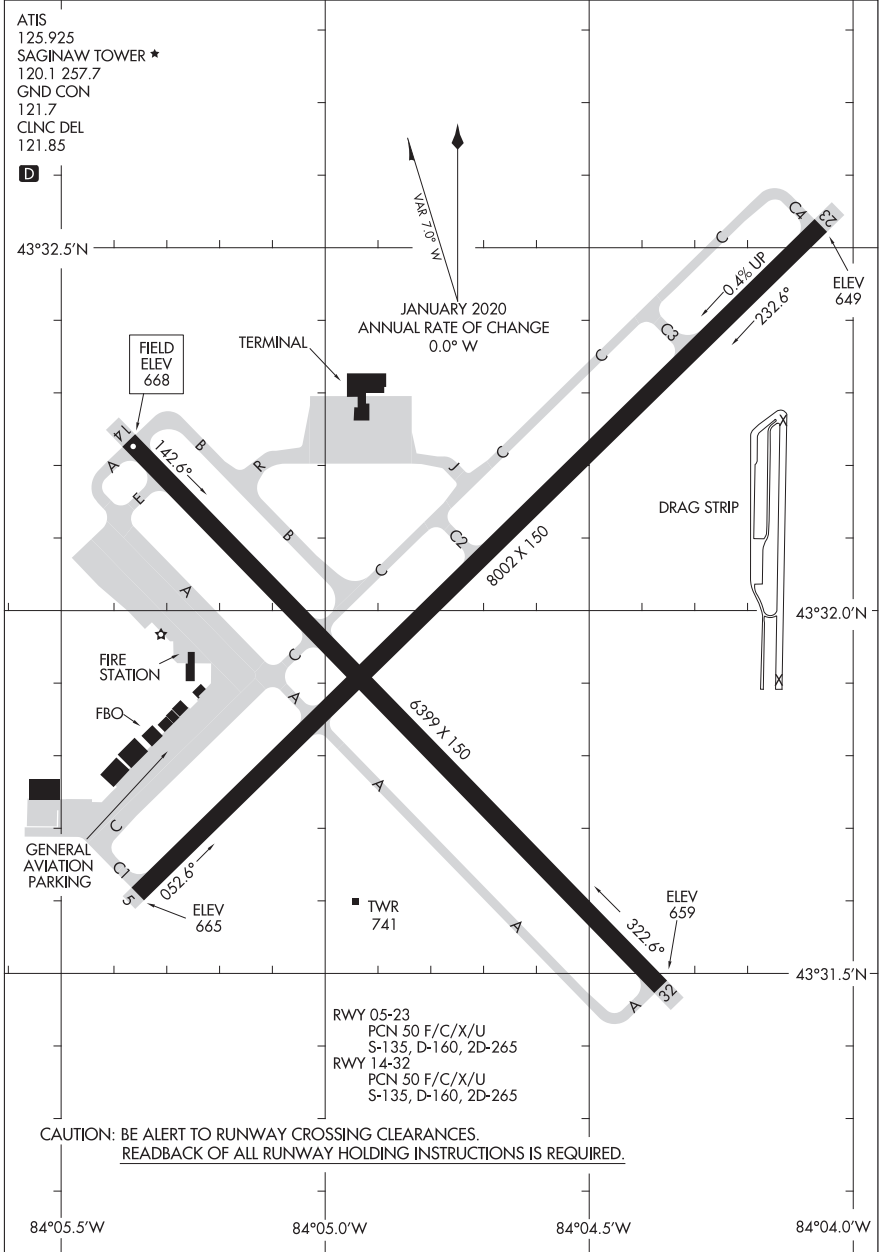
RHINELANDER, WISCONSIN
RHINELANDER/ONEIDA COUNTY (R.H.I)

22251

AIRPORT DIAGRAM

AL-648 (FAA)

MBS INTL (MBS)
SAGINAW, MICHIGAN



AIRPORT DIAGRAM

22251

SAGINAW, MICHIGAN
MBS INTL (MBS)

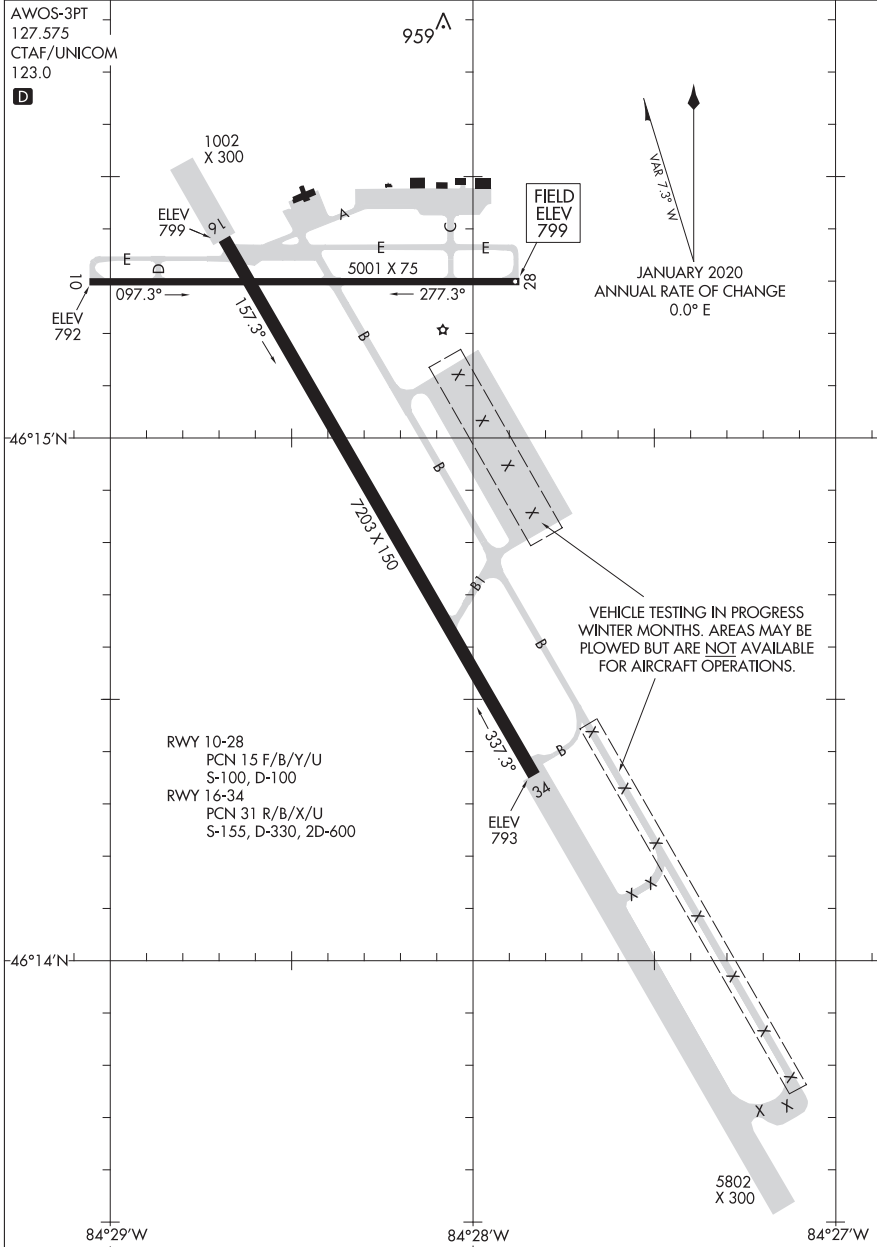
22027

AIRPORT DIAGRAM

AL-810 (FAA)

CHIPPEWA COUNTY INTL (CIU)

SAULT STE MARIE, MICHIGAN



AIRPORT DIAGRAM

22027

SAULT STE MARIE, MICHIGAN

CHIPPEWA COUNTY INTL (CIU)

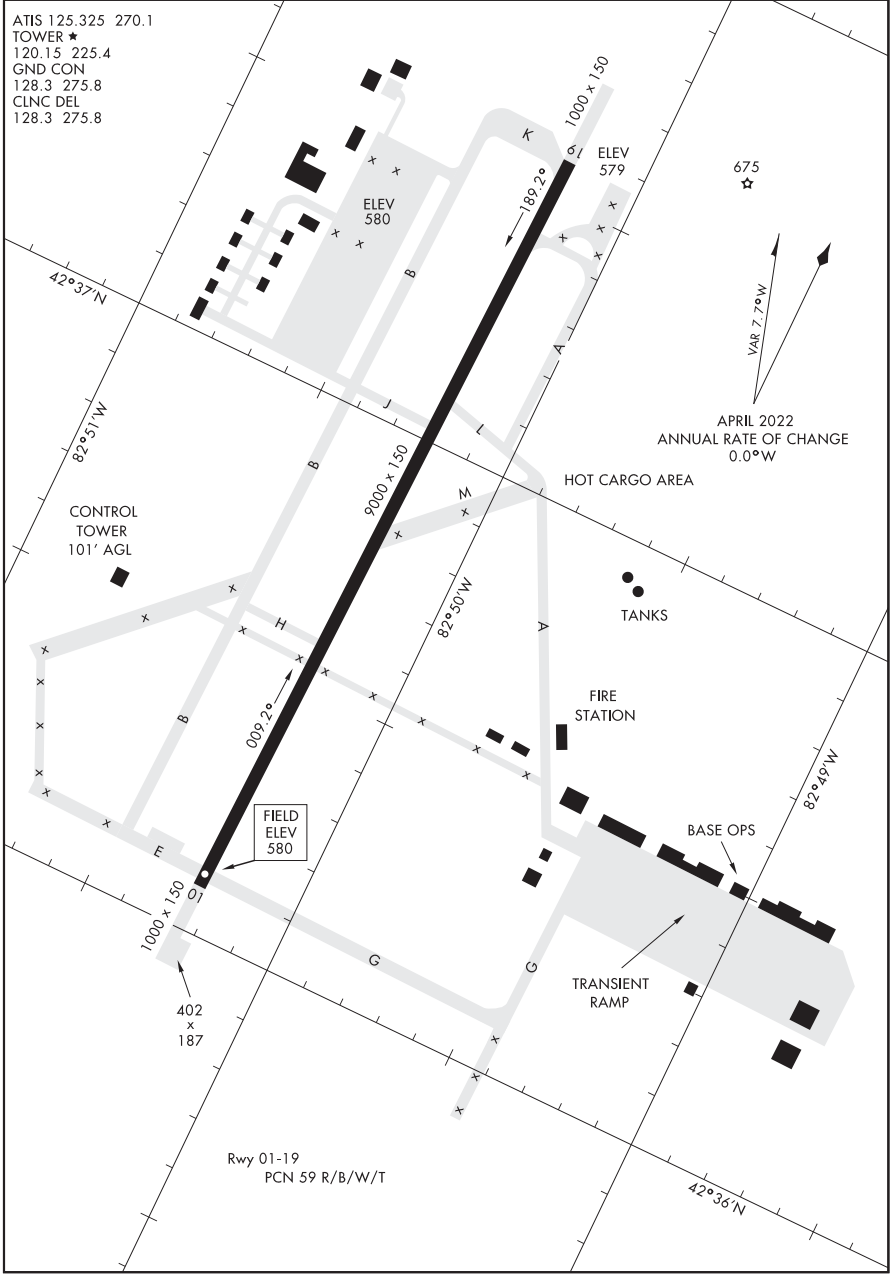
22111

AIRPORT DIAGRAM

AL-276 [USAF]

SELFRIDGE ANGB (KMTC)

MT. CLEMENS, MICHIGAN



AIRPORT DIAGRAM

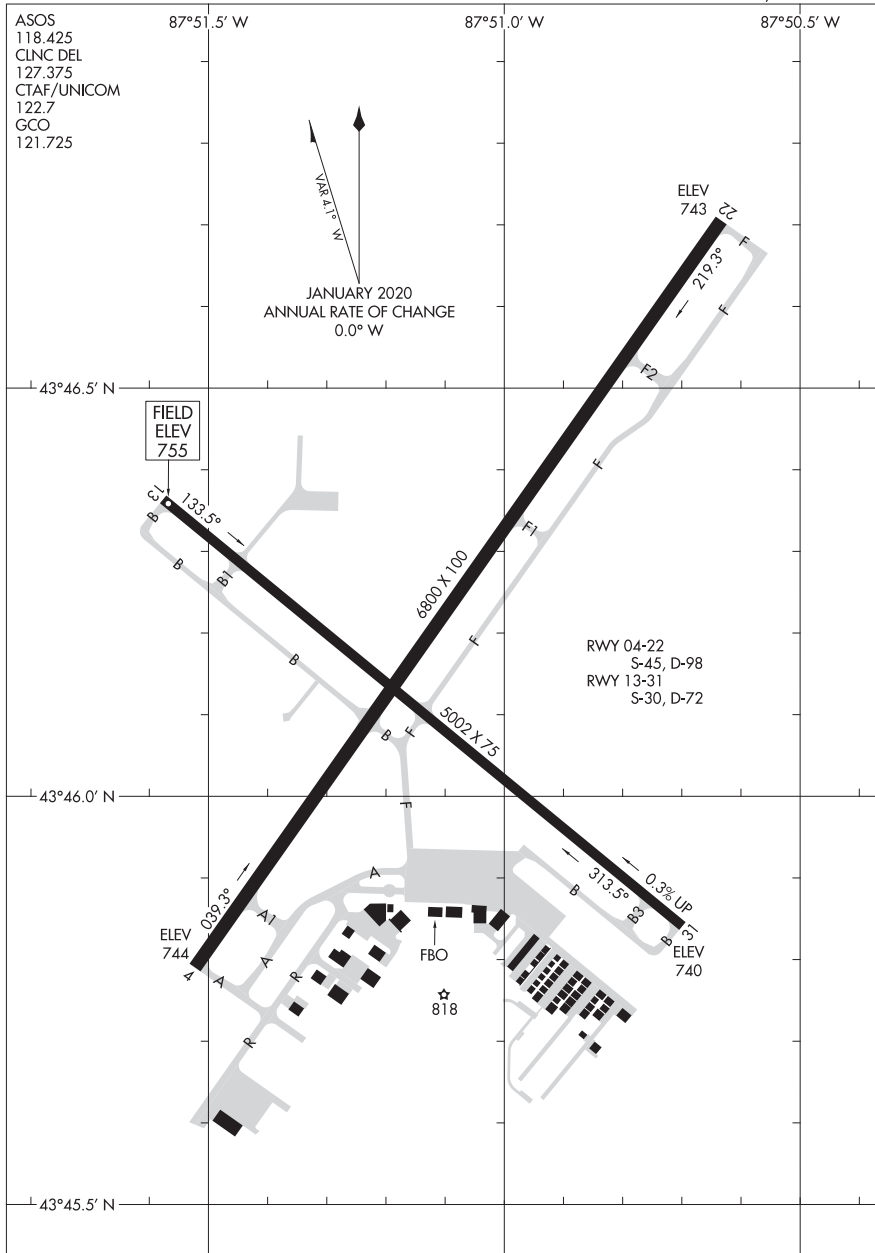
MT. CLEMENS, MICHIGAN
SELFRIDGE ANGB (KMTC)

24025

AIRPORT DIAGRAM

AL-5379 (FAA)

SHEBOYGAN COUNTY MEML (SBM)
SHEBOYGAN, WISCONSIN



AIRPORT DIAGRAM

24025

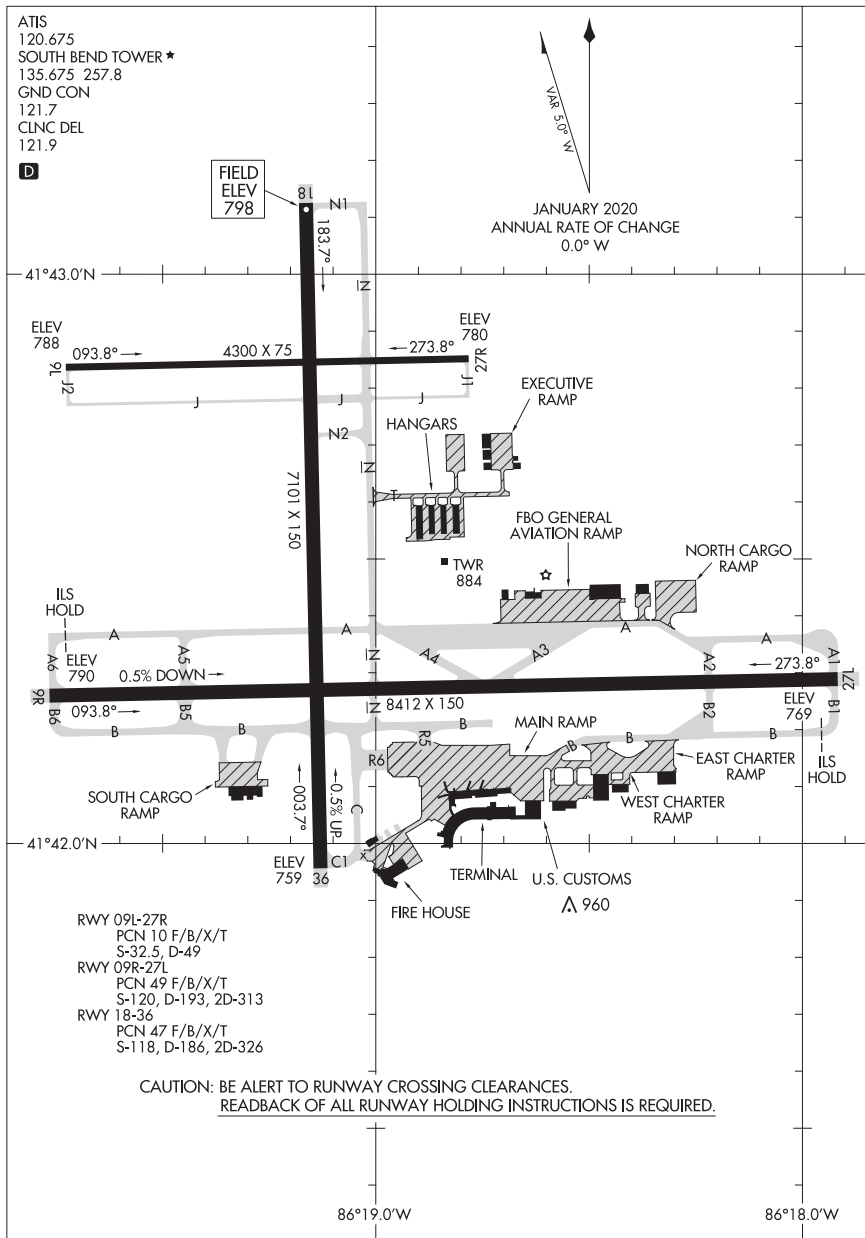
SHEBOYGAN, WISCONSIN
SHEBOYGAN COUNTY MEML (SBM)

24025

AIRPORT DIAGRAM

AL-399 (FAA)

SOUTH BEND INTL (SBN)
SOUTH BEND, INDIANA



AIRPORT DIAGRAM

24025

SOUTH BEND, INDIANA
SOUTH BEND INTL (SBN)

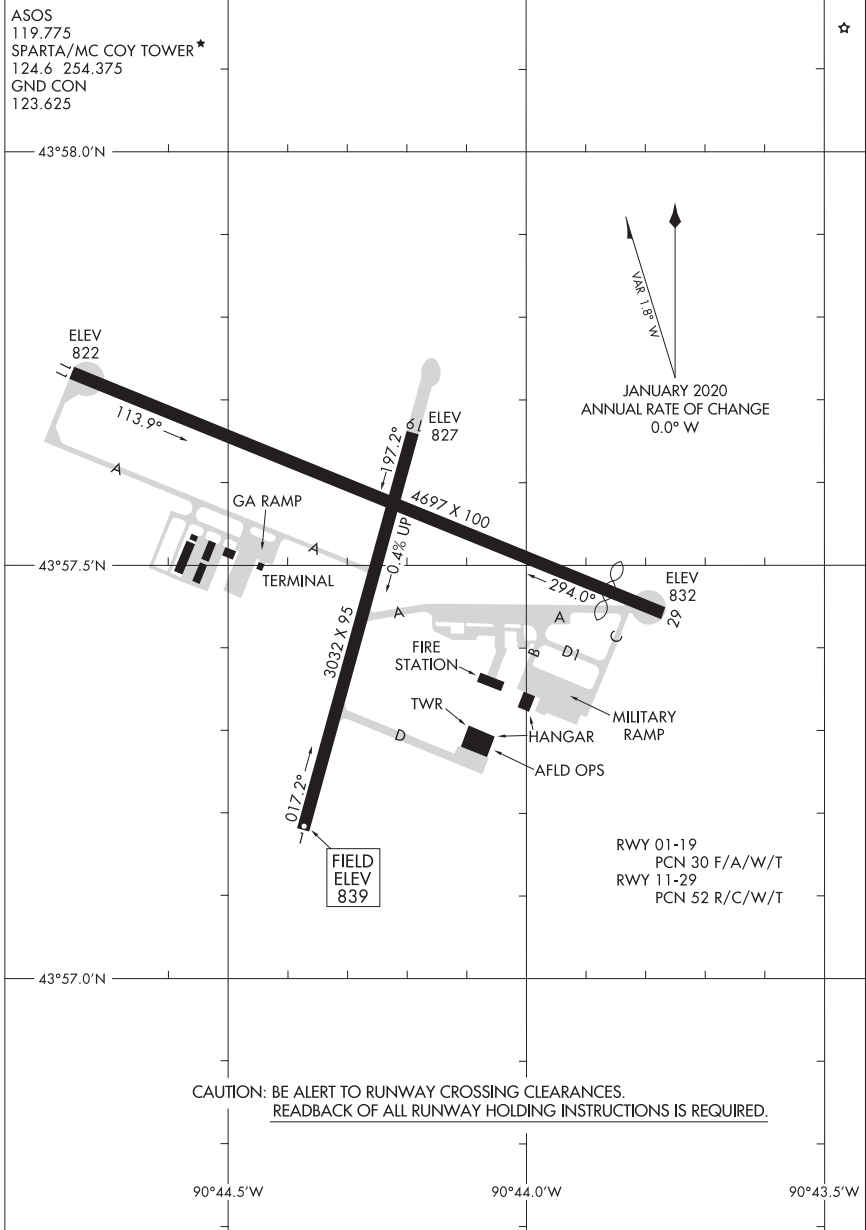
23166

AIRPORT DIAGRAM

AL-6902 (FAA)

SPARTA/FORT MC COY (CMY)

SPARTA, WISCONSIN



AIRPORT DIAGRAM

23166

SPARTA, WISCONSIN
SPARTA/FORT MC COY (CMY)

24025

AIRPORT DIAGRAM

ABRAHAM LINCOLN CAPITAL (SPI)
SPRINGFIELD, ILLINOIS

ATIS
127.65 270.1
SPRINGFIELD TOWER*
121.3 (CTAF) 257.8
GND CON
121.9 348.6
CLNC DEL
121.7

D

AL-518 (FAA)

FIELD
ELEV
598

JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W

RWY 04-22
PCN 80 R/C/W/T
S-100, D-200, 2D-350
RWY 13-31
PCN 72 F/C/X/T
S-70, D-90, 2D-160

600
X 150

ELEV
588

39°51'N

128.8°

TWR
698

7400 X 150

8001 X 150

ELEV
588

1000
X 150

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

HIRL Rwy 13-31 and 4-22
REIL Rwy 13

89°41'W

89°40'W

AIRPORT DIAGRAM

24025

SPRINGFIELD, ILLINOIS
ABRAHAM LINCOLN CAPITAL (SPI)

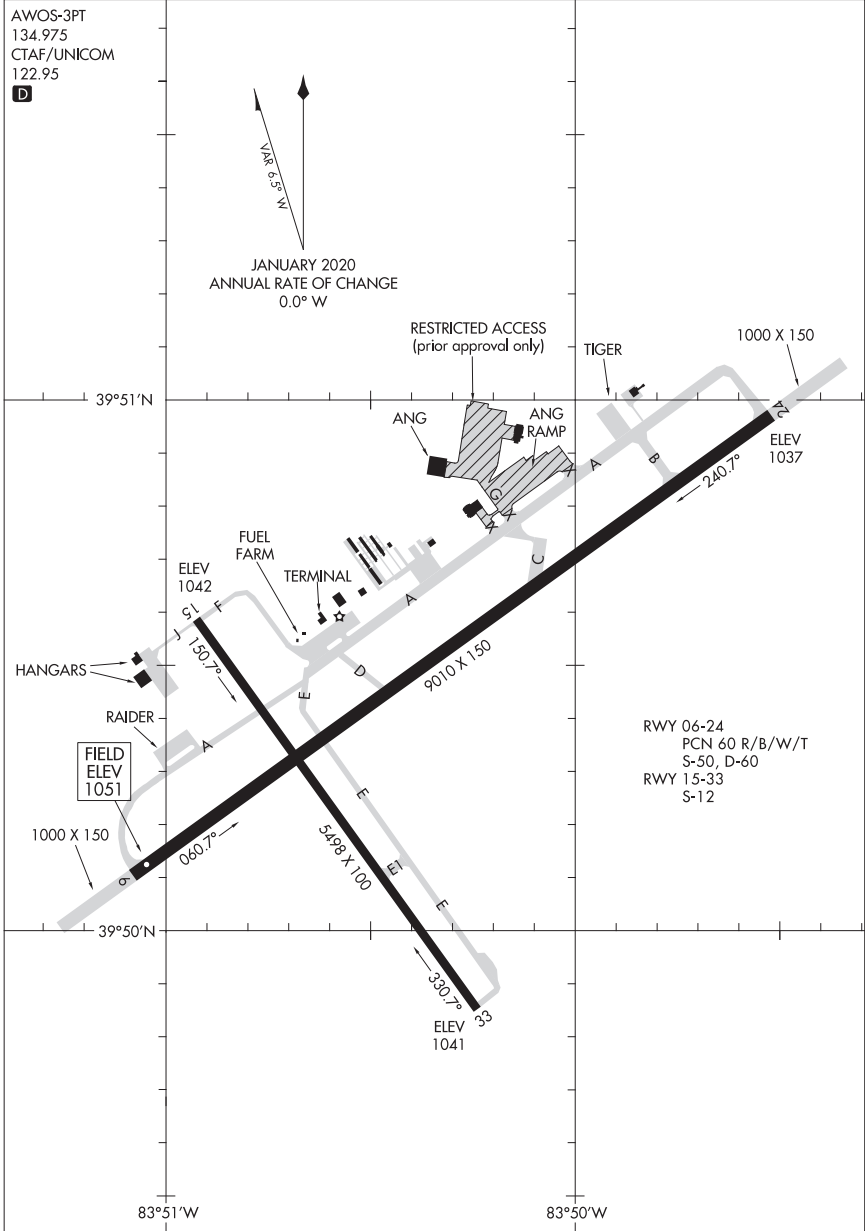
21336

AIRPORT DIAGRAM

AL-958 (FAA)

SPRINGFIELD/BECKLEY MUNI (SGH)

SPRINGFIELD, OHIO



AIRPORT DIAGRAM

21336

SPRINGFIELD, OHIO

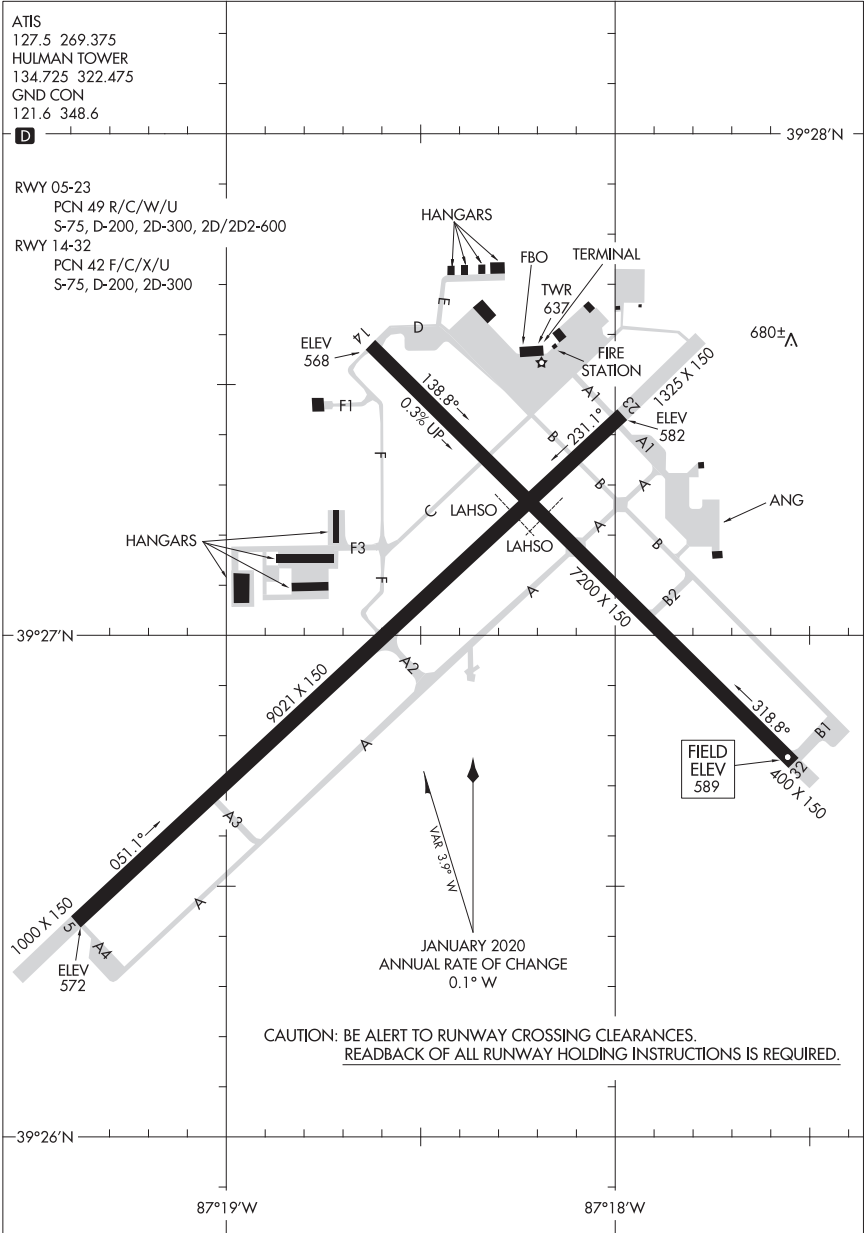
SPRINGFIELD/BECKLEY MUNI (SGH)

23054

AIRPORT DIAGRAM

AL-608 (FAA)

TERRE HAUTE RGNL (HUF)
TERRE HAUTE, INDIANA



AIRPORT DIAGRAM

23054

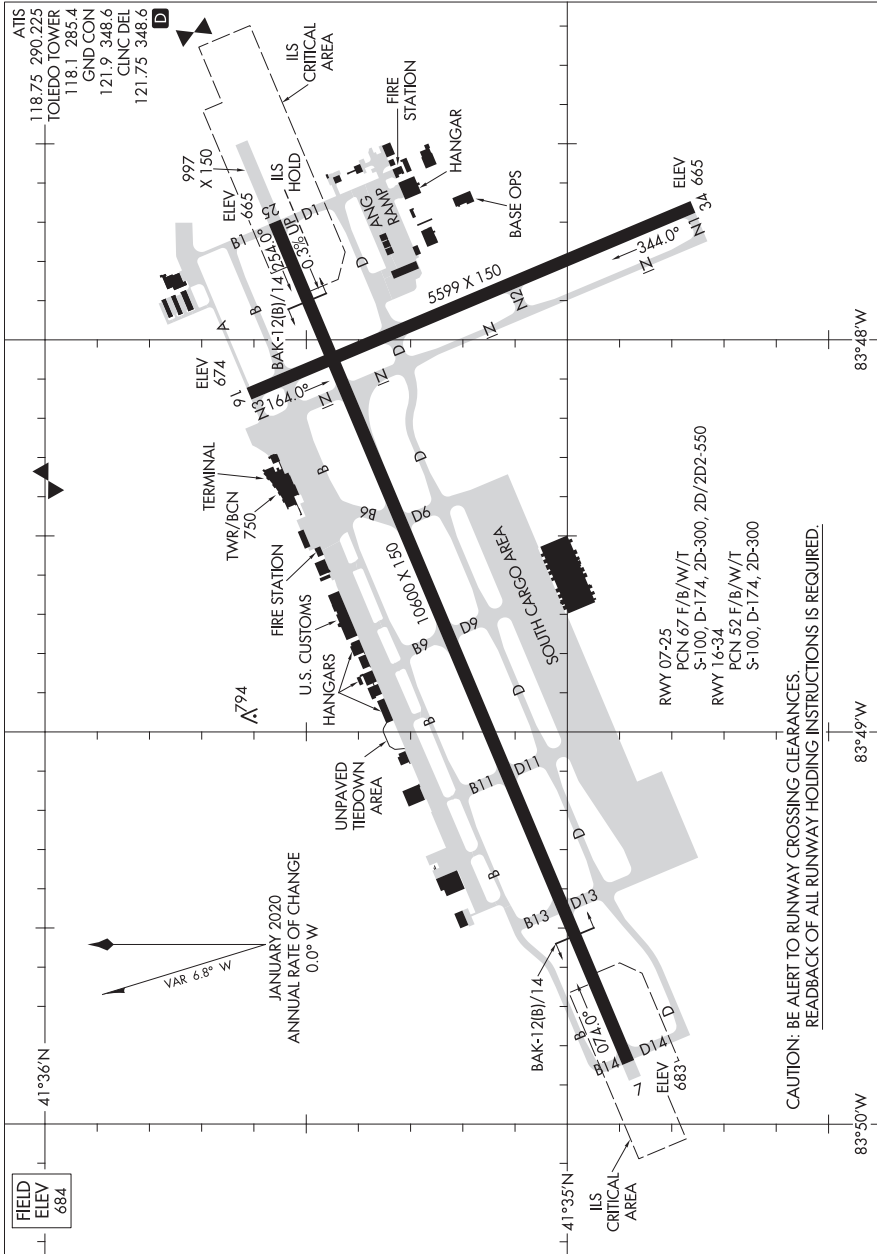
TERRE HAUTE, INDIANA
TERRE HAUTE RGNL (HUF)

23222

AIRPORT DIAGRAM

AL-184 (FAA)

EUGENE F KRANZ TOLEDO EXPRESS (TOL)
TOLEDO, OHIO



AIRPORT DIAGRAM

23222

EUGENE F KRANZ TOLEDO EXPRESS (TOL)
TOLEDO, OHIO

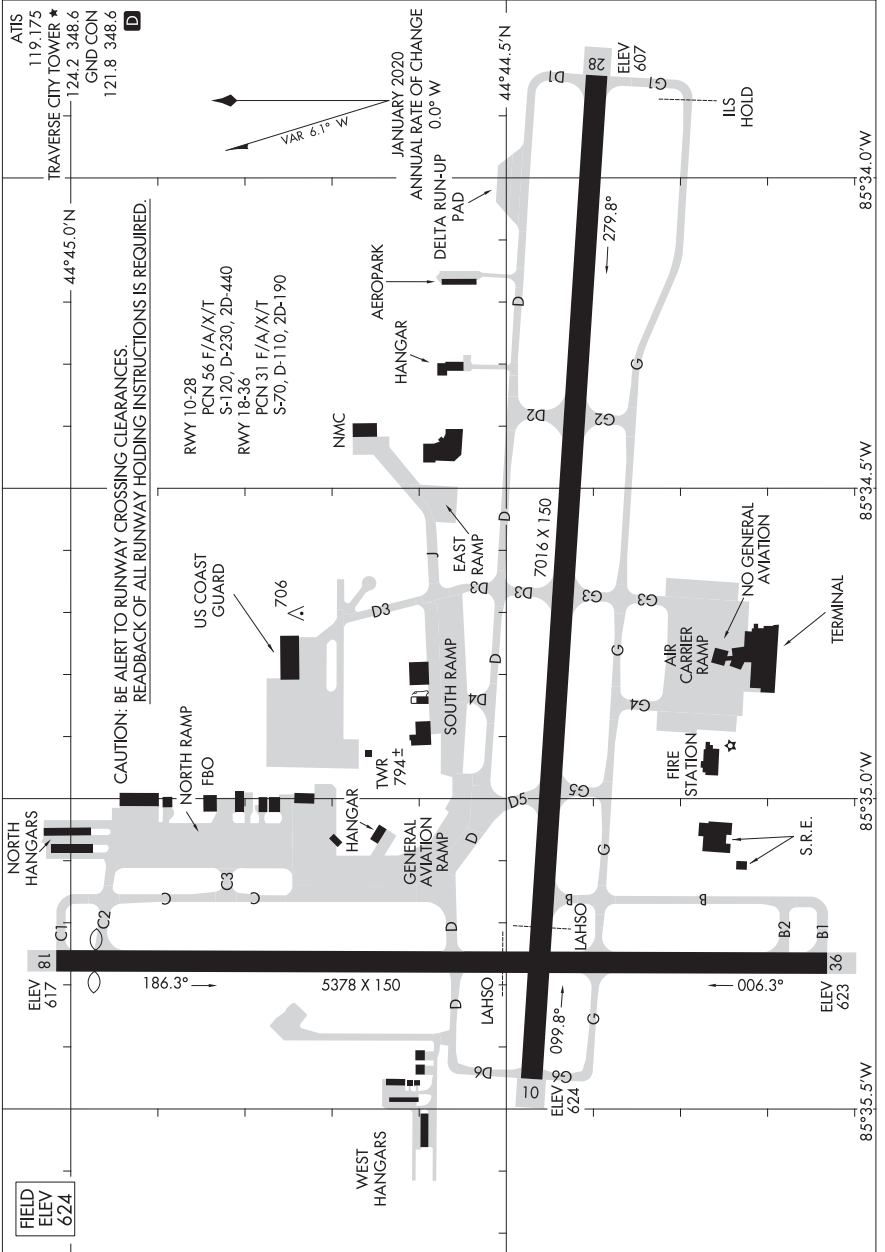
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REARBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

24025

AIRPORT DIAGRAM

AL-425 (FAA)

CHERRY CAPITAL (TVC)
TRAVERSE CITY, MICHIGAN



AIRPORT DIAGRAM

24025

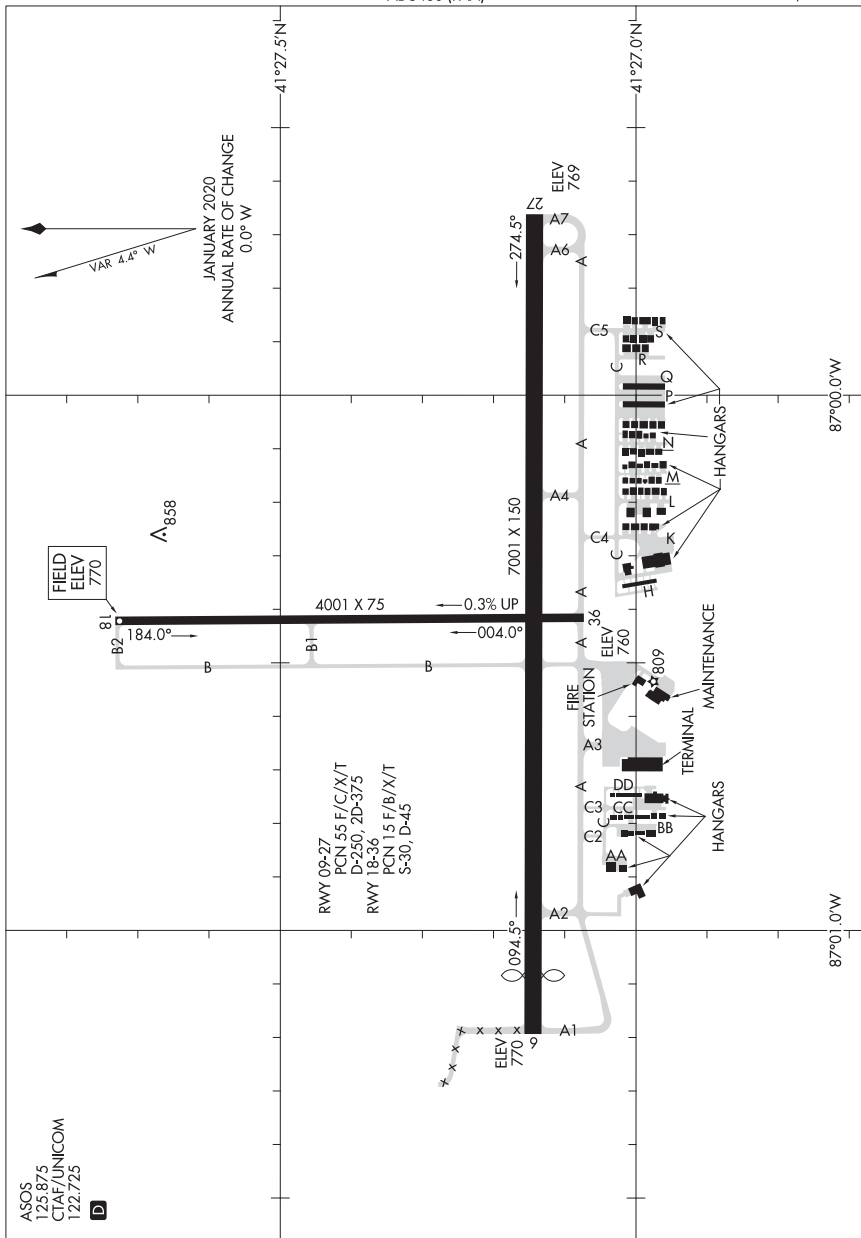
TRAVERSE CITY, MICHIGAN
CHERRY CAPITAL (TVC)

20086

AIRPORT DIAGRAM

AL-5460 (FAA)

PORTER COUNTY RGNL (VPZ)
VALPARAISO, INDIANA



AIRPORT DIAGRAM

20086

VALPARAISO, INDIANA
PORTER COUNTY RGNL (VPZ)

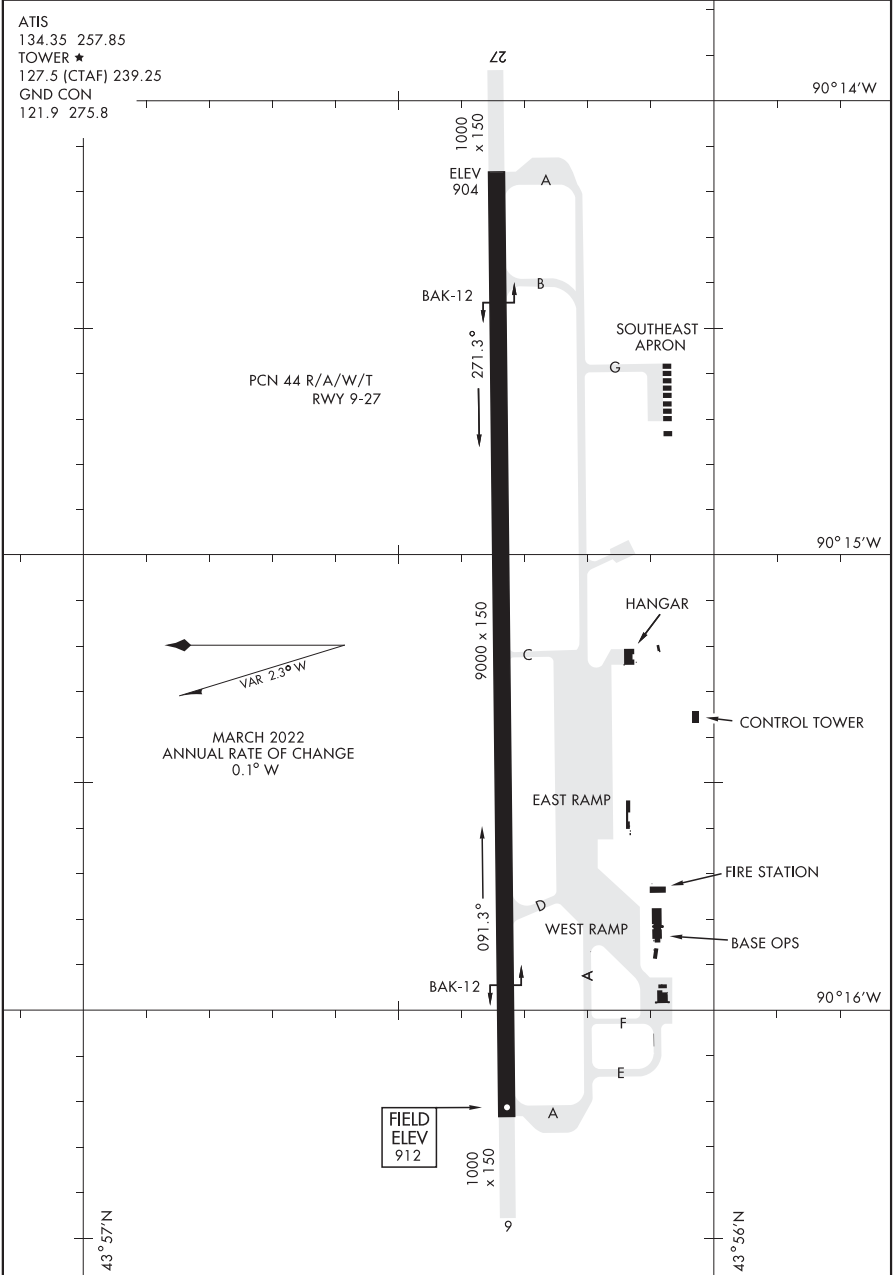
22083

VOLK FLD (KVOK)

AIRPORT DIAGRAM

AL-714 [USAF]

CAMP DOUGLAS, WISCONSIN



AIRPORT DIAGRAM

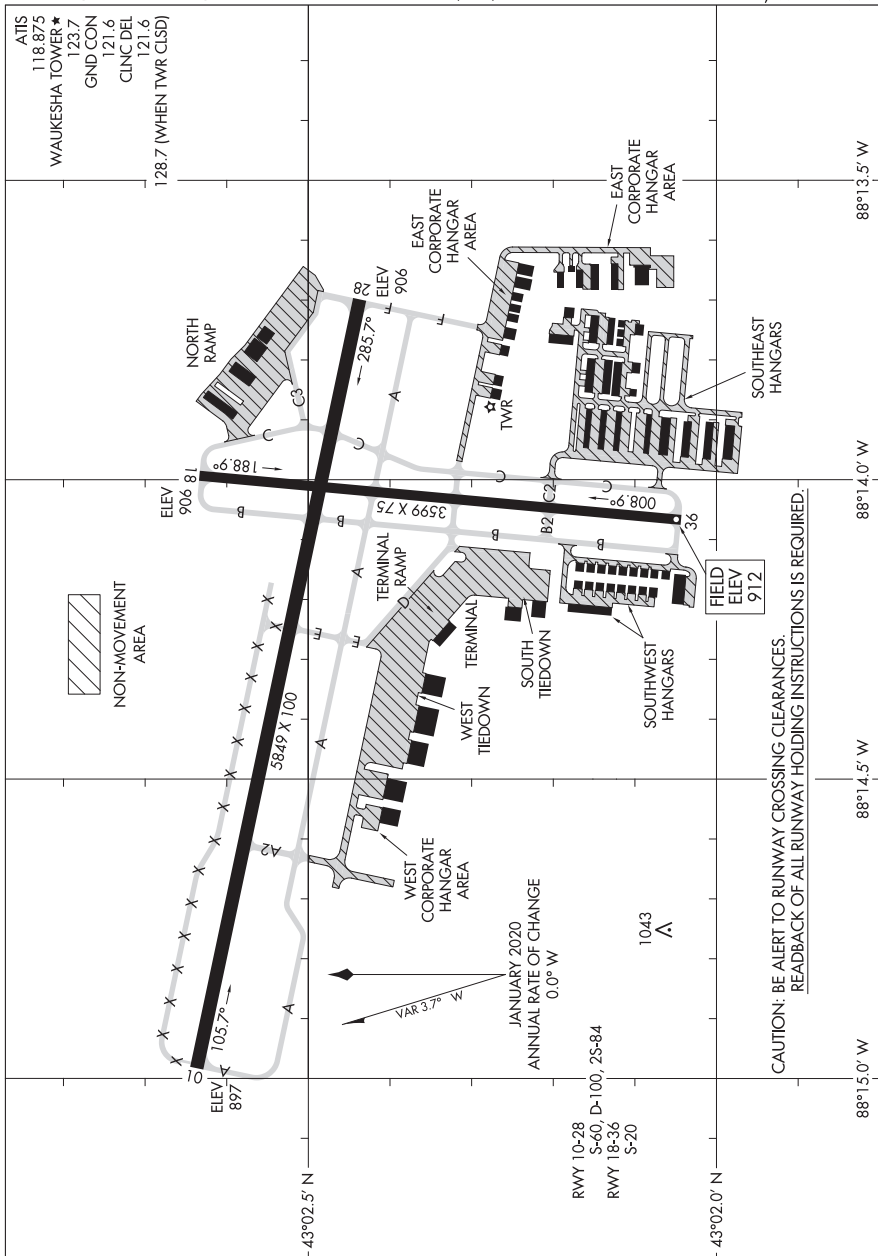
CAMP DOUGLAS, WISCONSIN
VOLK FLD (KVOK)

22195

AIRPORT DIAGRAM

AL-5078 (FAA)

WAUKESHA COUNTY (UES)
WAUKESHA, WISCONSIN



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REARBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

22195

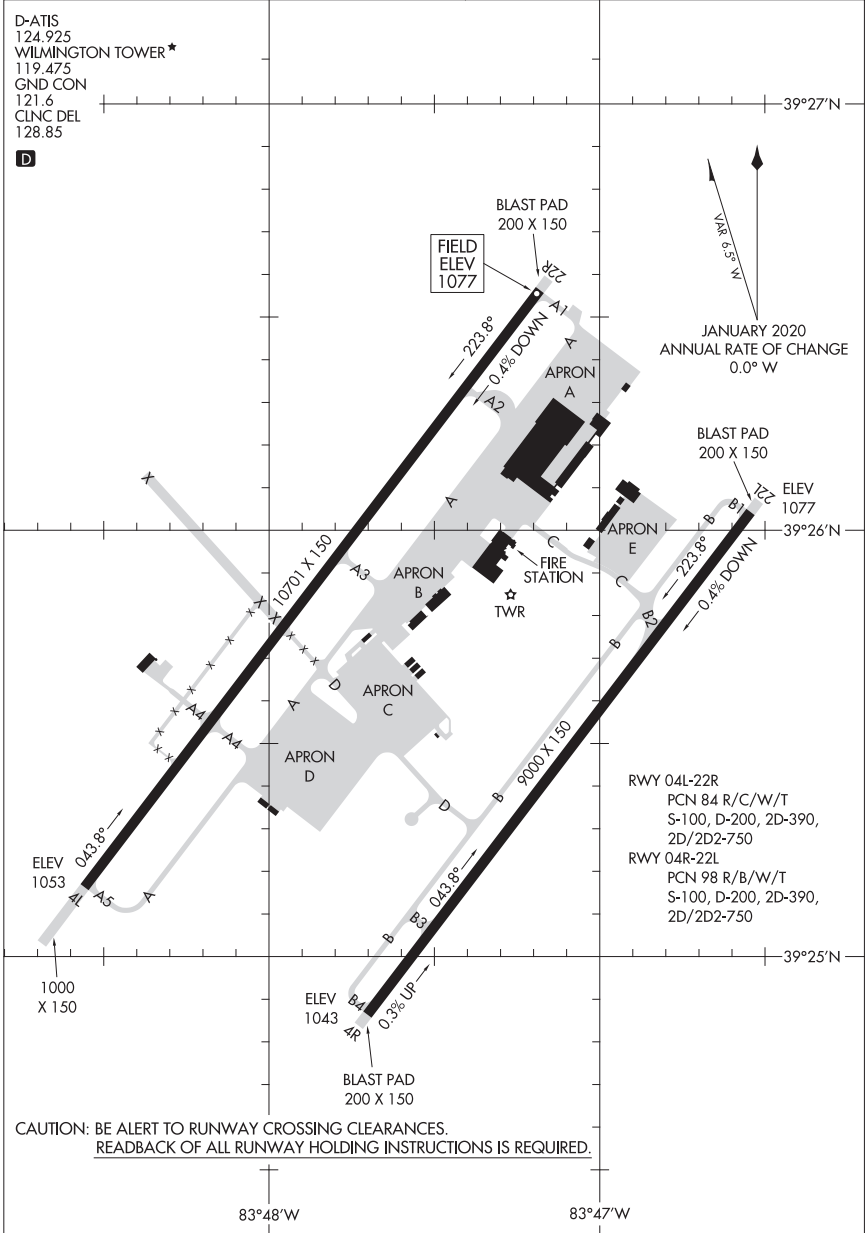
WAUKESHA, WISCONSIN
WAUKESHA COUNTY (UES)

21056

AIRPORT DIAGRAM

AL-583 (FAA)

WILMINGTON AIR PARK (ILN)
WILMINGTON, OHIO



AIRPORT DIAGRAM

21056

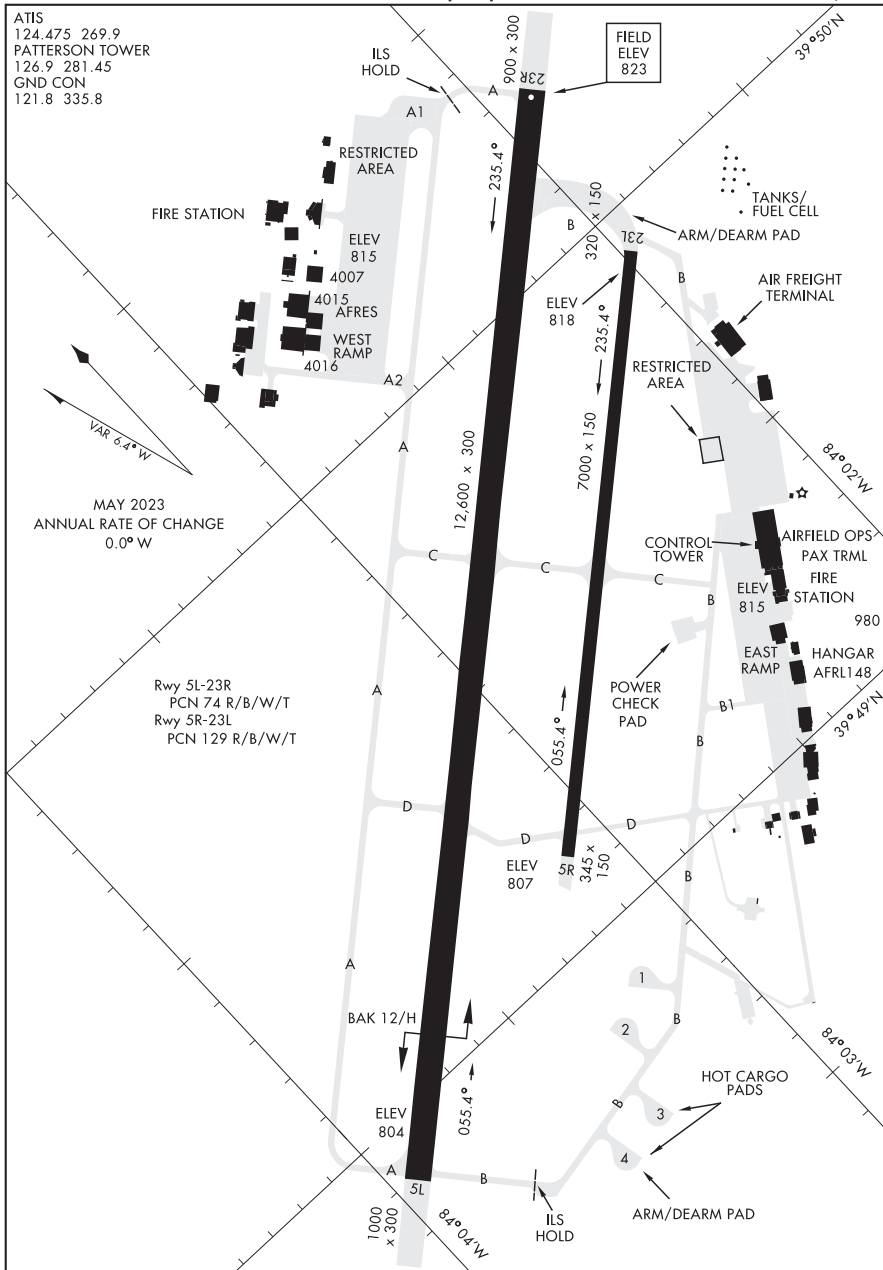
WILMINGTON, OHIO
WILMINGTON AIR PARK (ILN)

23278

WRIGHT-PATTERSON AFB (KFPO)

AIRPORT DIAGRAM

DAYTON, OHIO



AIRPORT DIAGRAM

DAYTON, OHIO

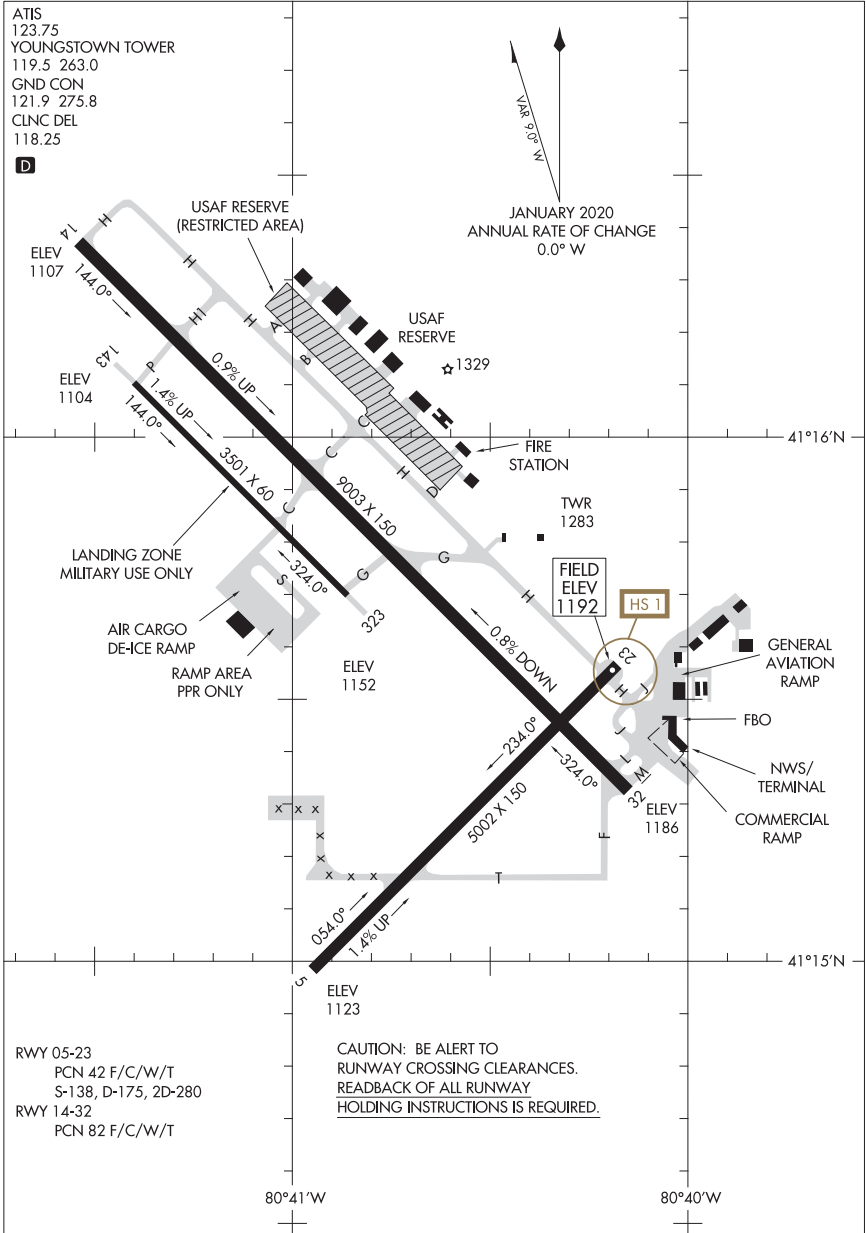
WRIGHT-PATTERSON AFB (KFPO)

22251

AIRPORT DIAGRAM

AL-466 (FAA)

YOUNGSTOWN/WARREN RGNL (YNG)
YOUNGSTOWN/WARREN, OHIO



AIRPORT DIAGRAM

22251

YOUNGSTOWN/WARREN, OHIO
YOUNGSTOWN/WARREN RGNL (YNG)

Submitting Pilot Weather Reports (PIREPs)

1. UA - Routine PIREP / UUA - Urgent PIREP

2. /OV - Location: Use Airport or NAVAID identifiers only.

- Location can be reported as a single fix, radial DME, or a route segment (Fix- Fix)
- Examples: /OV LAX, /OV LAX-SLI120005, /OV PDZ-PSP.**

3. /TM – Time: When conditions occurred or were encountered.

- Use 4 digits in UTC.
- Examples: /TM 1645, /TM 0915**

4. /FL - Altitude/Flight Level

- Use 3 digits for hundreds of feet. If not known, use UNKN.
- Examples: /FL095, /FL310, /FLUNKN**

5. /TP - Type aircraft: Required if reporting Turbulence or Icing

- No more than 4 characters, use UNKN if the type is not known.
- Examples: /TP P28A, /TP RV8, /TP B738, /TP UNKN**

6. /SK – Sky Condition/Cloud layers:

- Report cloud coverage using contractions: FEW, SCT, BKN, OVC, SKC
 - Report bases in hundreds of feet: BKN005, SCT015, OVC200
 - If bases are unknown, use UNKN
 - Report cloud tops in hundreds of feet: TOP120
- Examples: /SK BKN035, /SK SCT UNKN-TOP125, /SK OVC095-TOP125/ SKC**

7. /WX - Weather: Flight visibility is always reported first. Append FV reported with SM.

- Report visibility using 2 digits: FV01SM, FV10SM
 - Unrestricted visibility use FV99SM.
 - Use standard weather contractions e.g.: RA, SH, TS, HZ, FG, -, +
- Examples: /WX FV01SM +SHRA, /WX FV10 SM -RA BR.**

8. /TA - Air temperature (Celsius): Required when reporting icing

- 2 digits, unless below zero, then prefix digits with M.
- Examples: /TA 15, /TA 04 /TA M06**

9. /WV - Wind: Direction in 3 digits, speed in 3 or 4 digits, followed by KT.

- Examples: /WV 270045KT, /WV 080110KT**

10. /TB - Turbulence:

- Report intensity using LGT, MOD, SEV, or EXTRM
 - Report duration using INTMT, OCNL or CONS when reported by pilot.
 - Report type using CAT or CHOP when reported by pilot.
 - Include altitude only if different from /FL.
 - Use ABV or BLO when limits are not defined.
 - Use NEG if turbulence is not encountered.
- Examples: /TB OCNL MOD, /TB LGT CHOP, /LGT 060, /TB MOD BLO 090, /TB NEG**

11. /IC - Icing:

- Report intensity using TRACE, LGT, MOD or SEV
 - Report type using RIME, CLR, or MX
 - Include altitude only if different than /FL.
 - Use NEG if icing not encountered.
- Examples: /IC LGT-MOD RIME, /IC SEV CLR 028-045, /IC NEG**

12. /RM - Remarks: Use to report phenomena that does not fit in any other field.

- Report the most hazardous element first.
 - Name of geographic location from /OV field fix.
- Examples: /RM LLWS +/-15KT SFC-003 DURC RWY22 JFK
/RM MTN WAVE, /RM DURC, /RM DURD, /RM MULLAN PASS
/RM BA RWY 02L BA MEDIUM TO POOR 3IN DRY SN OVER COMPACTED**

SN

Examples of Completed PIREPS

UA /OV RFD /TM 1315 /FL160 /TP PA44 /SK OVC025-TOP095/OVC150 /TA M12 /TB INTMT LGT CHOP
UA /OV DHT360015-AMA /TM 2116 /FL050 /TP PA32 /SK BKN090 /WX FV05SM -RA /TA 04 /TB LGT /IC
NEG
UUA /OV PDZ010018 /TM 1520 /FL125 /TP C172 /WV 270048KT TB SEV 055-085 /RM CAJON PASS

*

