

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation.
Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAWRENCE	SEVEN	LWM7.LWM	SIX	06/27/2013	

TYPE: SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 14, 23, 32: CLIMB HEADING AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 5: CLIMB HEADING 053.17 TO 1100, THEN AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO ASSIGNED ROUTE/NAVAID/FIX. MAINTAIN 2000. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RADAR REQUIRED.

NOTE: NON RNAV EQUIPPED AIRCRAFT CAN EXPECT VECTORS ON ASSIGNED ROUTE.

NOTE: BLZZR DEPARTURES EXPECT VECTORS ON BOS R-273, DME REQUIRED.

NOTE: BRUWN DEPARTURES EXPECT VECTORS ON BOS R-159, DME REQUIRED.

NOTE: CELTK DEPARTURES EXPECT VECTORS ON BOS R-114.

NOTE: HYLND DEPARTURES EXPECT VECTORS ON BOS R-350.

NOTE: PATSS DEPARTURES EXPECT VECTORS ON BOS R-260, DME REQUIRED.

NOTE: REVSS DEPARTURES EXPECT VECTORS ON BOS R-285, DME REQUIRED.

NOTE: SSOXS DEPARTURES EXPECT VECTORS ON BOS R-177.

TAKEOFF MINIMUMS:

RWY 32, STANDARD.

RWY 5, 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 419 FT PER NM TO 500.

RWY 14, 300-1 OR STANDARD WITH MINIMUM CLIMB OF 601 FT PER NM TO 600.

RWY 23, 300-1 OR STANDARD WITH MINIMUM CLIMB OF 334 FT PER NM TO 400.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 5, TREES BEGINNING 288 FT FROM DER, 44 FT LEFT OF CENTERLINE, UP TO 86 FT AGL/282 FT MSL. POLE AND TREES BEGINNING 544 FT FROM DER, 403 FT RIGHT OF CENTERLINE, UP TO 75 FT AGL/281 FT MSL. TREES 3731 FT FROM DER, 1052 FT RIGHT OF CENTERLINE, UP TO 86 FT AGL/331 FT MSL. TREES 1.2 NM FROM DER, 41 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/354 FT MSL.

NOTE: RWY 14, BUSH, POLE, AND TREES BEGINNING 150 FT FROM DER, 9 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/186 FT MSL. BUSH, BUILDINGS, POLES, AND TREES BEGINNING 102 FT FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 94 FT AGL/290 FT MSL. ROD ON POLE 3473 FT FROM DER, 1391 FT RIGHT OF CENTERLINE, 73 FT AGL/417 FT MSL.

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NOTE: RWY 23, BUSH AND TREES BEGINNING 176 FT FROM DER, 464 FT LEFT OF CENTERLINE, UP TO 53 FT AGL/160 FT MSL. BUSH 117 FT FROM DER, 183 FT RIGHT OF CENTERLINE, UP TO 13 FT AGL/140 FT MSL. STACK 3768 FT FROM DER, 1310 FT RIGHT OF CENTERLINE, 260 FT AGL/295 FT MSL.
NOTE: RWY 32, TREES 159 FT FROM DER, 198 FT LEFT OF CENTERLINE, UP TO 54 FT AGL/141 FT MSL. TREES BEGINNING 120 FT FROM DER, 156 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/177 FT MSL.

CONTROLLING OBSTACLES:

RWY 5: 331 FT MSL TREES 424340.64N/0710620.62W (CLIMB GRADIENT). 354 FT MSL TREES 424415.80N/0710600.36W (CLIMB-TO ALTITUDE, CEILING). 352 FT MSL TREES 424415.62N/0710557.40W (VISIBILITY). 869 FT MSL TOWER 424622.00N/0710601.00W (DEPARTURE ROUTE).
RWY 14: 417 FT MSL ROD ON POLE 424226.30N/0710633.63W.
RWY 23: 295 FT MSL STACK 424218.00N/0710829.00W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: TOP ALTITUDE: 2000.
CHART: BOS R-273/35.3 DME AT BLZZR.
CHART: BOS R-159/56.6 DME AT BRUWN.
CHART: BOS R-114/39.8 DME AND LFV R-005/15.2 DME AT CELTK.
CHART: BOS R-350/28.4 DME AND PSM R-243/26.7 DME AT HYLND.
CHART: BOS R-260/36.0 DME AT PATSS.
CHART: BOS R-285/36.5 DME AT REVSS.
CHART: BOS R-177/33.1 DME AND PVD R-091/31.4 DME AT SSOXS.
CHART: BOS R-048/31.0 DME AT LBSTA.

AIRPORTS SERVED:

LAWRENCE MUNI

LAWRENCE, MA

COMMUNICATIONS:

ATIS, CLEARANCE DELIVERY, GROUND CONTROL, TOWER, DEPARTURE CONTROL

FIXES AND/OR NAVAIDS:

ACK VOR/DME, BAF VORTAC, BOS VOR/DME, CAM VOR/DME, CMK VOR/DME, CTR VOR/DME, ENE VORTAC, LFV VOR/DME, MHT VOR/DME, MVY VOR/DME, PSM VOR/DME, PVD VORTAC, SEY VOR/DME, SYR VORTAC, BLZZR, BOSOX, BRUWN, BURDY, BUZRD, CELTK, DUNNK, FREDO, FRILL, GLYDE, HANAA, HYLND, LBSTA, NELIE, PATSS, REVSS, SSOXS.



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REMARKS:

ABBREVIATED AMENDMENT. FLIGHT INSPECTION MAPS FROM LAWRENCE SIX USED IN SUPPORT FILE.
AFS LETTER OF APPROVAL ON FILE FOR 601 FT PER NM CG DEPARTING RUNWAY 14.

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

PETER GUIMOND

Digitally signed by
PETER R GUIMOND
Jan 14, 2016

AJV-5412

01/14/2016

APPROVED BY:

MARLON ROBINSON

AJV-5410

COORDINATED WITH:

AOPA, NBAA, ZBW, BOS APP CON, LWM ATCT, ARPT MGR

CHANGES:

1. ADDED TOP ALTITUDE IN ADDITIONAL FLIGHT DATA BLOCK.
2. ADDED HANAA TO FIXES AND/OR NAVAIDS BLOCK.
3. REMOVED SPENO AND ONEPS FROM FIXES AND/OR NAVAID BLOCK.
4. REMOVED CHART BAF R-107/24.9 DME AT ONEPS FROM ADDITIONAL FLIGHT DATA BLOCK.
5. ADDED DESCRIPTION TO RWY 5 CONTROLLING OBSTACLES (CLIMB GRADIENT, CEILING, ETC.).

REASONS:

- 1, 2, 3, 4. ATC REQUEST TO STANDARDIZE SID GRAPHIC WITH OTHER SIDS IN BOSTON AREA.
5. IN ACCORDANCE WITH CURRENT DOCUMENTATION POLICY.

QUALITY
3
CHECKED

DEPARTURE (DATA RECORD)

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ARINC SUMMARY - KLWM

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
RW05	010		VA	FB		053.2						AA 01100		
RW05	020		VM	FB		053.2								E
RW14	010		VM	FB		136.7								E
RW23	010		VM	FB		233.2								E
RW32	010		VM	FB		316.7								E

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW05	N424239.26	W0710744.01	00134
RW14	N424316.26	W0710747.88	00119
RW23	N424318.09	W0710702.61	00134
RW32	N424257.01	W0710705.59	00147

