

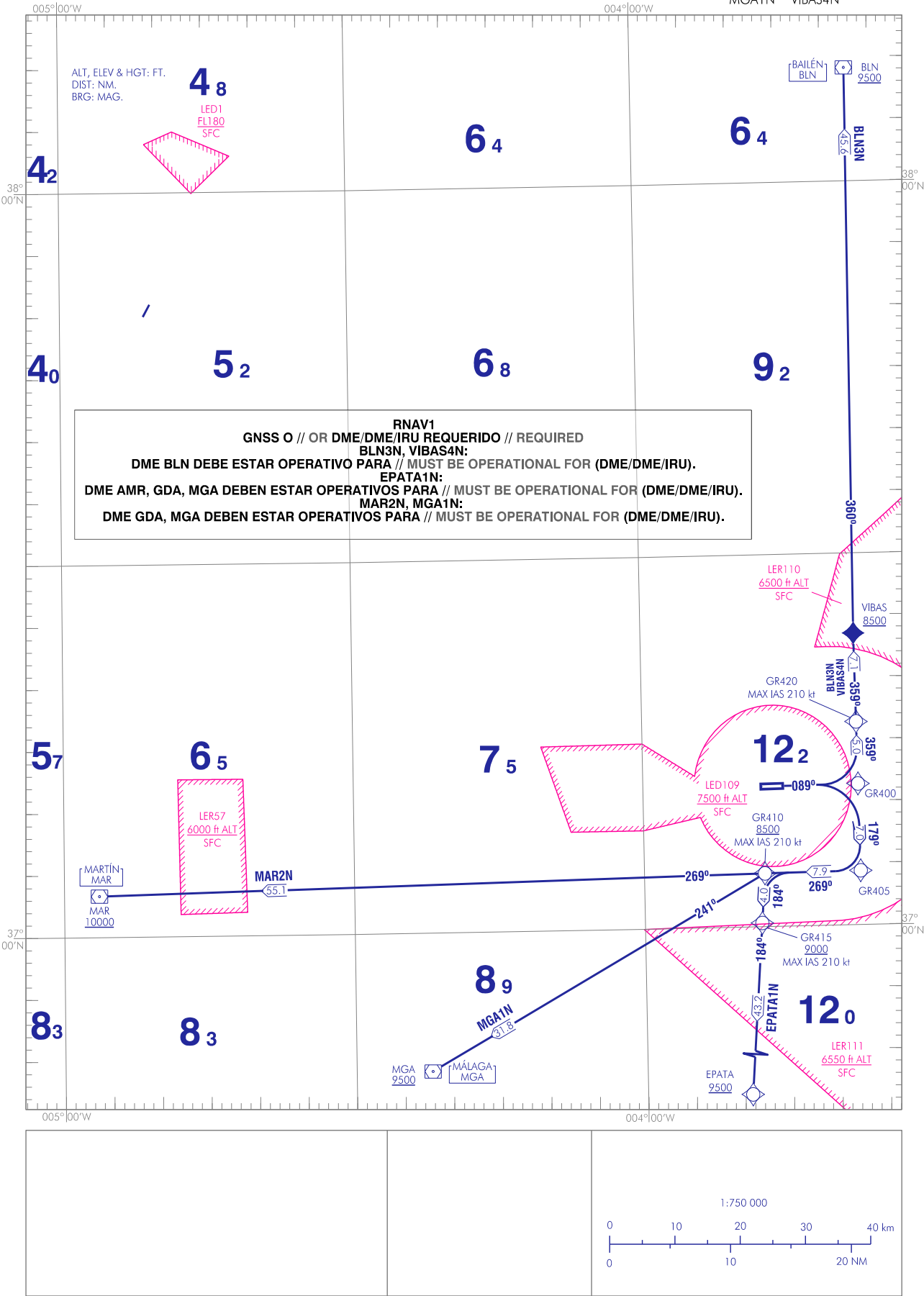
GRANADA/Federico García Lorca
Granada - Jaén
RNAV RWY 09

CARTA DE SALIDA NORMALIZADA
VUELO POR INSTRUMENTOS (SID)-OACI

TA 13000 ft
VAR 0° (2025)

APP 118.855 C
TWR 118.855 C

BLN3N EPATA1N MAR2N
MGA1N VIBAS4N



WAYPOINTS COORDINATES

WPT	COORD
BLN	380909.2N 0033729.0W
EPATA	361713.4N 003520.0W
GR400	371123.1N 0033742.5W
GR405	370422.6N 0033737.5W
GR410	370418.5N 0034732.3W
GR415	370018.9N 0034755.0W
GR420	371623.4N 0033746.0W
MAR	370319.1N 0045623.6W
MGA	364851.5N 0042210.5W
VIBAS	372332.0N 0033751.1W

CRITICAL DME

INSTALACIÓN (ID) FACILITY (ID)	FREQ/CH	COORD
BAILÉN (BLN)	116.20 MHz	380909.0948N
	CH 109X	0033729.3043W
ALMERÍA (AMR)	114.10 MHz	364959.4007N
	CH 88X	0021533.9251W
GRANADA (GDA)	113.40 MHz	371059.9364N
	CH 81X	0035927.2565W
MÁLAGA (MGA)	112.00 MHz	364851.0310N
	CH 57X	0042210.6412W

STANDARD INSTRUMENT DEPARTURES (SID) RNAV1 (DME/DME)

RUNWAY 09

NOTES APPLICABLE TO ALL SID:

- RNAV1.
- (GNSS OR DME/DME/IRU) required.

PROCEDURE TABULAR DESCRIPTION

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
BLN3N DME BLN must be operational for (DME/DME/IRU). minimum climb gradient 6.6% up to VIBAS, due to operational reasons.											
001	CF	GR400	–	089 (089.5)	-0.4	-	–	-	-	–	RNAV1
002	TF	GR420	–	359 (359.5)	-0.4	5.0	–	-	-210	–	RNAV1
003	TF	VIBAS	–	359 (359.5)	-0.4	7.1	–	+8500	-	–	RNAV1
004	TF	BLN	–	360 (000.4)	-0.4	45.6	–	+9500	-	–	RNAV1

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
EPATA1N DME AMR, GDA, MGA must be operational for (DME/DME/IRU).											

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
Minimun climb gradient of 6.0% up to GR410 due to operational reasons.											
001	CF	GR400	–	089 (089.5)	-0.4	-	–	-	-	–	RNAV1
002	TF	GR405	–	179 (179.5)	-0.4	7.0	–	-	-	–	RNAV1
003	TF	GR410	–	269 (269.6)	-0.4	7.9	–	+8500	-	–	RNAV1
004	TF	GR415	–	184 (184.3)	-0.4	4.0	–	+9000	-210	-	RNAV1
005	TF	EPATA	–	184 (184.4)	-0.4	43.2	-	+9500	-	-	RNAV1

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
MAR2N DME GDA, MGA must be operational for (DME/DME/IRU). Minimun climb gradient of 6.0% up to GR410 due to operational reasons.											
001	CF	GR400	-	089 (089.5)	-0.4	-	-	-	-	-	RNAV1
002	TF	GR405	-	179 (179.5)	-0.4	7.0	-	-	-	-	RNAV1
003	TF	GR410	-	269 (269.6)	-0.4	7.9	-	+8500	-210	-	RNAV1
004	TF	MAR	-	269 (269.3)	-0.4	55.1	-	+10000	-	-	RNAV1

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
MGA1N DME GDA, MGA must be operational for (DME/DME/IRU). Minimun climb gradient of 6.0% up to GR410 due to operational reasons.											
001	CF	GR400	-	089 (089.5)	-0.4	-	-	-	-	-	RNAV1
002	TF	GR405	-	179 (179.5)	-0.4	7.0	-	-	-	-	RNAV1
003	TF	GR410	-	269 (269.6)	-0.4	7.9	-	+8500	-210	-	RNAV1
004	TF	MGA	-	241 (241.1)	-0.4	31.8	-	+9500	-	-	RNAV1

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
VIBAS4N DME BLN must be operational for (DME/DME/IRU). Minimun climb gradient of 6.6% up to  VIBAS due to operational reasons.											
001	CF	GR400	-	089 (089.5)	-0.4	-	-	-	-	-	RNAV1
002	TF	GR420	-	359 (359.5)	-0.4	5.0	-	-	-210	-	RNAV1
003	TF	VIBAS	-	359 (359.5)	-0.4	7.1	-	+8500	-	-	RNAV1

CLOSE-IN OBSTACLES

OBS	RWY	LAT	LON	HGT (ft)	ELEV (ft)
Perimetral road	09	371115.4N	0034536.2W	24	1884
Building	09	371116.5N	0034534.7W	27	1887
Tree	09	371124.2N	0034516.4W	68	1928
Tree	09	371126.3N	0034520.6W	52	1912
Tree	09	371126.8N	0034521.9W	49	1908

SIGNIFICANT OBSTACLES

OBS	RWY	LAT	LON	HGT (ft)	ELEV (ft)
Terrain	09	370246.0N	0033545.4W	0	4537
Terrain	09	370223.6N	0033523.7W	0	5034
Terrain	09	372252.9N	0034013.1W	0	4397
Terrain	09	372426.1N	0033817.5W	0	4886
Terrain	09	372445.4N	0033658.7W	0	4958

OBS	RWY	LAT	LON	HGT (ft)	ELEV (ft)
Terrain	09	370609.9N	0034127.6W	0	3178