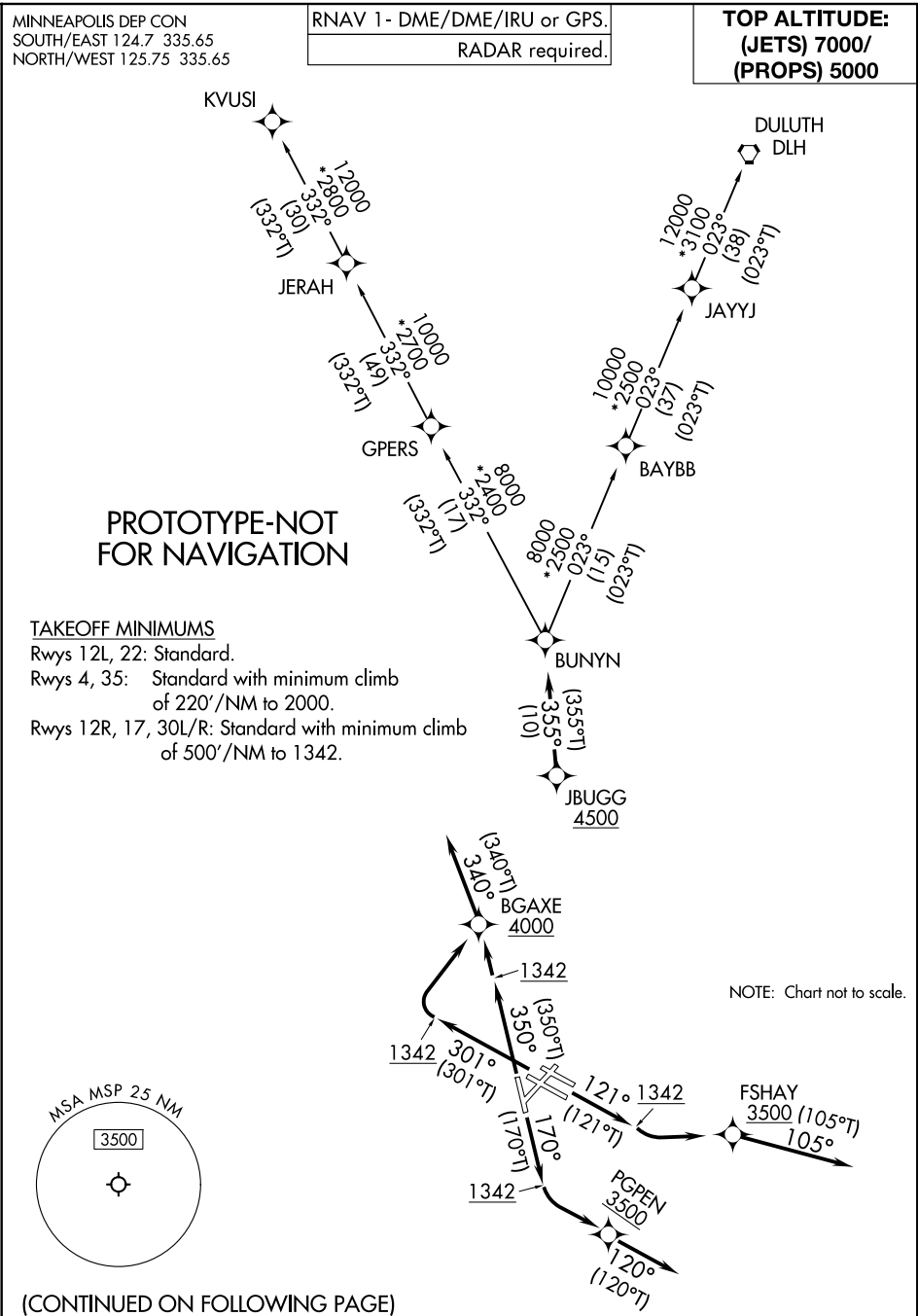






DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4, 22: Climb on assigned heading for vectors to JBUGG, thence . . . .

TAKEOFF RUNWAYS 12L/R: Climb on heading 121° to 1342, then left turn direct FSHAY, cross FSHAY at or above 3500, then on track 105° for vectors to JBUGG, thence . . . .

TAKEOFF RUNWAY 17: Climb on heading 170° to 1342, then left turn direct PGPEN , cross PGPEN at or above 3500, then on track 120° for vectors to JBUGG, thence . . . .

TAKEOFF RUNWAYS 30L/R: Climb on heading 301° to 1342, then right turn direct BGAXE, cross BGAXE at or above 4000, then on track 340° for vectors to JBUGG, thence . . . .

TAKEOFF RUNWAY 35: Climb on heading 350° to 1342, then direct BGAXE, cross BGAXE at or above 4000, then on track 340° for vectors to cross JBUGG, thence . . . .

. . . . cross JBUGG at or above 4500, then on track 355° to BUNYN then on transition.

Maintain (jets) 7000/(props) 5000, expect filed altitude 10 minutes after departure.

ALL AIRCRAFT: ATC crossing restrictions and climb gradients: If unable to accept crossing restrictions and climb gradients advise ATC prior to taxi.

RUNWAY 12L: Cross FSHAY at or above 3500, 420’/NM to 3500.

RUNWAY 12R: Cross FSHAY at or above 3500, 400’/NM from 1342 to 3500.

RUNWAY 17: Cross PGPEN at or above 3500, 370’/NM from 1342 to 3500.

RUNWAYS 30L/R: Cross BGAXE at or above 4000, 420’/NM from 1342 to 3500.

RUNWAY 35: Cross BGAXE at or above 4000, 430’/NM to 4000.

DULUTH TRANSITION (BUNYN1.DLH)

KVUSI TRANSITION (BUNYN1.KVUSI)

PROTOTYPE-NOT FOR NAVIGATION