

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
PHILADELPHIA, PA	PHILADELPHIA INTL		10

TAKEOFF MINIMUMS:

RWY 26: NA - ATC.
RWY 27L, 27R: STANDARD.
RWY 8: STANDARD WITH MINIMUM CLIMB OF 300 FT PER NM TO 1500.
RWY 9L: STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 1500.
RWY 9R: STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 1500.
RWY 17: 300 - 1 OR STANDARD WITH MINIMUM CLIMB OF 460 FT PER NM TO 300.
RWY 35: STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 1500.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 08, FENCE 164 FT FROM DER, 250 FT RIGHT OF CENTERLINE, 20 FT AGL/41 FT MSL. TREE 613 FT FROM DER, 434 FT RIGHT OF CENTERLINE, 74 FT AGL/74 FT MSL. TREE 2834 FT FROM DER, 701 FT RIGHT OF CENTERLINE, 114 FT AGL/119 FT MSL. CRANE 5928 FT FROM DER, 194 FT RIGHT OF CENTERLINE, 197 FT AGL/208 FT MSL. CRANE 1 NM FROM DER, 870 FT LEFT OF CENTERLINE, 197 FT AGL/208 FT MSL. CRANES BEGINNING 1 NM FROM DER, 219 FT RIGHT OF CENTERLINE, UP TO 210 FT AGL/220 FT MSL. CRANE 1 NM FROM DER, 593 FT LEFT OF CENTERLINE, 206 FT AGL/215 FT MSL. CRANE 1 NM FROM DER, 64 FT LEFT OF CENTERLINE, 205 FT AGL/216 FT MSL. CRANE 1.1 NM FROM DER, 575 FT LEFT OF CENTERLINE, 198 FT AGL/223 FT MSL.

NOTE: RWY 09L, ASDE POLE 103 FT FROM DER, 460 FT RIGHT OF CENTERLINE, 8 FT AGL/15 FT MSL. TREE 592 FT FROM DER, 633 FT LEFT OF CENTERLINE, 26 FT MSL. SHIP 3543 FT FROM DER, 1120 FT RIGHT OF CENTERLINE, 94 FT AGL/103 FT MSL.

NOTE: RWY 09R, APP LT 154 FT FROM DER, ON CENTERLINE, 7 FT AGL/15 FT MSL. TREE 2173 FT FROM DER, 1033 FT RIGHT OF CENTERLINE, 55 FT AGL/65 FT MSL. TREE 2557 FT FROM DER, 789 FT RIGHT OF CENTERLINE, 64 FT AGL/76 FT MSL. SHIP 3736 FT FROM DER, 1217 FT RIGHT OF CENTERLINE, 109 FT MSL. TWR 3845 FT FROM DER, 1052 FT RIGHT OF CENTERLINE, 130 FT AGL/142 FT MSL. TOWERS BEGINNING 3887 FT FROM DER, 659 FT RIGHT OF CENTERLINE, UP TO 140 FT AGL/144 FT MSL.

NOTE: RWY 17, TERRAIN 2 FT FROM DER, 156 FT RIGHT OF CENTERLINE, 20 FT MSL. TERRAIN 85 FT FROM DER, 61 FT LEFT OF CENTERLINE, 20 FT MSL. TERRAIN 202 FT FROM DER, 483 FT RIGHT OF CENTERLINE, 23 FT MSL. TREE, POLE, LT POLE BEGINNING 706 FT FROM DER, 340 FT LEFT OF CENTERLINE, UP TO 42 FT AGL/53 FT MSL. TREES BEGINNING 943 FT FROM DER, 478 FT LEFT OF CENTERLINE, UP TO 56 FT MSL. TREE, LT POLE BEGINNING 985 FT FROM DER, 243 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/61 FT MSL. TREES BEGINNING 1078 FT FROM DER, 221 FT LEFT OF CENTERLINE, UP TO 54 FT AGL/65 FT MSL. TREE 1096 FT FROM DER, 390 FT RIGHT OF CENTERLINE, 46 FT MSL. TREE, LT POLE BEGINNING 1123 FT FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/76 FT MSL. TREES BEGINNING 1301 FT FROM DER, 128 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/48 FT MSL. TREES BEGINNING 1381 FT FROM DER, 194 FT RIGHT OF CENTERLINE, UP TO 46 FT AGL/54 FT MSL. TREES BEGINNING 1387 FT FROM DER, 51 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/55 FT MSL. TREES BEGINNING 1397 FT FROM DER, 29 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/58 FT MSL. TREES BEGINNING 1577 FT FROM DER, 5 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/59 FT MSL. TREE 1742 FT FROM DER, 934 FT RIGHT OF CENTERLINE, 58 FT AGL/66 FT MSL. SHIP 3096 FT FROM DER, 86 FT LEFT OF CENTERLINE, 181 FT AGL/181 FT MSL.

NOTE: RWY 27L, RWY LT BEGINNING 1 FT FROM DER, ON CENTERLINE, UP TO 2 FT AGL/21 FT MSL. RWY LT BEGINNING 1 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 1 FT AGL/21 FT MSL. TREE 256 FT FROM DER, 560 FT RIGHT OF CENTERLINE, 31 FT MSL. TREES BEGINNING 571 FT FROM DER, 479 FT RIGHT OF CENTERLINE, UP TO 49 FT MSL. TREE 690 FT FROM DER, 620 FT LEFT OF CENTERLINE, 4 FT AGL/39 FT MSL. TREE 874 FT FROM DER, 609 FT RIGHT OF CENTERLINE, 39 FT AGL/54 FT MSL. TREE 2628 FT FROM DER, 1146 FT RIGHT OF CENTERLINE, 97 FT AGL/103 FT MSL.

NOTE: RWY 27R, TERRAIN BEGINNING 2 FT FROM DER, 182 FT RIGHT OF CENTERLINE, UP TO 20 FT MSL. TERRAIN BEGINNING 78 FT FROM DER, 111 FT LEFT OF CENTERLINE, UP TO 20 FT MSL.

NOTE: RWY 35, TERRAIN 3 FT FROM DER, 171 FT LEFT OF CENTERLINE, 10 FT MSL. FENCE BEGINNING 115 FT FROM DER, 382 FT LEFT OF CENTERLINE, UP TO 10 FT AGL/17 FT MSL. POLE 341 FT FROM DER, 360 FT LEFT OF CENTERLINE, 23 FT AGL/29 FT MSL. FENCE 444 FT FROM



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DER, 2 FT RIGHT OF CENTERLINE, 13 FT AGL/20 FT MSL. LT POLE 479 FT FROM DER, 586 FT RIGHT OF CENTERLINE, 25 FT AGL/29 FT MSL. POLE, TREE BEGINNING 594 FT FROM DER, 558 FT LEFT OF CENTERLINE, UP TO 53 FT AGL/58 FT MSL. POLE, LT POLE BEGINNING 758 FT FROM DER, 95 FT RIGHT OF CENTERLINE, UP TO 25 FT AGL/31 FT MSL. BLDG 851 FT FROM DER, 728 FT RIGHT OF CENTERLINE, 25 FT AGL/36 FT MSL. POLE, TREE, LT POLE BEGINNING 1072 FT FROM DER, 91 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/52 FT MSL. SIGN, LT POLE BEGINNING 1302 FT FROM DER, 174 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/59 FT MSL. SIGN, VEHICLE ON ROAD, TREE BEGINNING 1396 FT FROM DER, 644 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/61 FT MSL. TREE, POLE, FLGPL, BLDG, CHIMNEY/SMOKESTACK BEGINNING 1853 FT FROM DER, 92 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/85 FT MSL. TREES BEGINNING 2256 FT FROM DER, 617 FT LEFT OF CENTERLINE, UP TO 81 FT MSL. TREE 2579 FT FROM DER, 854 FT LEFT OF CENTERLINE, 95 FT MSL. POLE 2647 FT FROM DER, 1177 FT LEFT OF CENTERLINE, 120 FT AGL/125 FT MSL. POLE BEGINNING 2649 FT FROM DER, 784 FT LEFT OF CENTERLINE, UP TO 122 FT AGL/128 FT MSL. POLE 3881 FT FROM DER, 644 FT RIGHT OF CENTERLINE, 105 FT AGL/111 FT MSL. POLE 4064 FT FROM DER, 922 FT RIGHT OF CENTERLINE, 118 FT AGL/125 FT MSL. T-L TWR 4245 FT FROM DER, 1201 FT RIGHT OF CENTERLINE, 120 FT AGL/129 FT MSL.



CONTROLLING OBSTACLES:

RWY 8, 9L, 9R, 35: 1153 FT MSL BUILDING 395718.00N/0751014.00W.
RWY 17: 181 FT MSL SHIP 395147.30N/0751324.90W.

REMARKS:

SHIPS LIMITED TO 181 FEET MSL BY COMMODORE BARRY BRIDGE.
RWY 8, 9L, 9R AND 35 CONTROLLING OBSTACLE (1153 BUILDING, 42-026445) EVALUATED WITH 4D ACCURACY CODE PER OEAAA ASN 2014-AEA-7161-OE.
DEPARTURE ROUTES AND VCOA NOT DEVELOPED PER ATC REQUEST.
RWY 26 NA PER ATC DUE TO FLIGHT PATH OVERFLYING TERMINAL BUILDINGS.

FLIGHT INSPECTED BY:

OFFICE SYMBOL:

DATE:

DEVELOPED BY:

Digitally signed by
LIAM DONAHUE
Jun 09, 2017

OFFICE SYMBOL:

AJV-5431

DATE:

06/07/2017

APPROVED BY:

PATRICK MULQUEEN

OFFICE SYMBOL:

AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ATA, ZDC, PHL APP CON, PHL ATCT, AMGR

CHANGES - REASONS:

1. CHANGED RWY 8 CLIMB GRADIENT FROM 320 FT PER NM TO 1000 TO 300 FT PER NM TO 1500 - NEW CONTROLLING OBSTACLE.
2. CHANGED RWY 9L CLIMB GRADIENT FROM 390 FT PER NM TO 600 TO 280 FT PER NM TO 1500 - NEW CONTROLLING OBSTACLE.
3. CHANGED RWY 9R CLIMB GRADIENT FROM 300 FT PER NM TO 400 TO 250 FT PER NM TO 1500 - NEW CONTROLLING OBSTACLE.
4. CHANGED RWY 35 CLIMB GRADIENT FROM 270 FT PER NM TO 1400 TO 280 FT PER NM TO 1500 - NEW CONTROLLING OBSTACLE.
5. UPDATED TAKEOFF OBSTACLE NOTES - NEW AIRPORT OBSTACLE DATA.
6. UPDATED RWY 8, 9L, 9R, 35 CONTROLLING OBSTACLE TO 1153 MSL BUILDING. - NEW OBSTACLE DATA.
7. UPDATE RWY 17 CONTROLLING OBSTACLE HEIGHT FROM 188 TO 181 MSL. - NEW INFORMATION ON MAXIMUM SHIP HEIGHT.
8. ADDED NOTES ON RWY 8, 9L, 9R, 35 CONTROLLING OBSTACLE, MAXIMUM SHIP HEIGHT AND RWY 26. - CLARIFY OBSTACLE DATA TO FUTURE DEVELOPERS.

