

**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.

AIRPORT ID	CITY	STATE	AMDT NO	ACTUAL EFFECTIVE DATE
KHYA	HYANNIS	MA	4	25 JANUARY 2024

TAKEOFF MINIMUMS:

RWY 6, 15, 24: STANDARD.

RWY 33: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 366 FT/NM TO 300.

TEXTUAL DEPARTURE PROCEDURES:

RWY 33: CLIMB ON HEADING 335.78 TO 700 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 6: TREES, BUILDINGS, TRAVERSE WAYS, POLES BEGINNING 9 FT FROM DER, 322 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/68 FT MSL.

POLE, TREES, TRAVERSE WAY BEGINNING 227 FT FROM DER, 316 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/70 FT MSL.

TREE, TRAVERSE WAY BEGINNING 260 FT FROM DER, 288 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/74 FT MSL.

TREES, TRAVERSE WAY BEGINNING 271 FT FROM DER, 276 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/77 FT MSL.

TREES, TRAVERSE WAY BEGINNING 361 FT FROM DER, 240 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/85 FT MSL.

TREES, TRAVERSE WAY, POLE BEGINNING 407 FT FROM DER, 103 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/89 FT MSL.

TREES BEGINNING 482 FT FROM DER, 618 FT LEFT OF CENTERLINE, UP TO 34 FT AGL/66 FT MSL.

TREES 816 FT FROM DER, 718 FT LEFT OF CENTERLINE, 40 FT AGL/72 FT MSL.

TREES BEGINNING 1558 FT FROM DER, 442 FT LEFT OF CENTERLINE, UP TO 45 FT AGL/80 FT MSL.

TREES BEGINNING 1572 FT FROM DER, 528 FT LEFT OF CENTERLINE, UP TO 46 FT AGL/81 FT MSL.

TREES BEGINNING 1583 FT FROM DER, 301 FT LEFT OF CENTERLINE, UP TO 48 FT AGL/83 FT MSL.

TREES BEGINNING 1599 FT FROM DER, 323 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/85 FT MSL.

TREES BEGINNING 1610 FT FROM DER, 771 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/90 FT MSL.

TREES BEGINNING 1610 FT FROM DER, 257 FT LEFT OF CENTERLINE, UP TO 52 FT AGL/87 FT MSL.

TREES BEGINNING 1650 FT FROM DER, 315 FT LEFT OF CENTERLINE, UP TO 52 FT AGL/88 FT MSL.

TREES BEGINNING 1682 FT FROM DER, 251 FT LEFT OF CENTERLINE, UP TO 54 FT AGL/90 FT MSL.

TREES BEGINNING 1730 FT FROM DER, 805 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/92 FT MSL.

TREES BEGINNING 1833 FT FROM DER, 647 FT RIGHT OF CENTERLINE, UP TO 67 FT AGL/96 FT MSL.

TREES BEGINNING 1945 FT FROM DER, 751 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/92 FT MSL.

TREES BEGINNING 1973 FT FROM DER, 571 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/93 FT MSL.

TREES BEGINNING 2161 FT FROM DER, 854 FT LEFT OF CENTERLINE, UP TO 61 FT AGL/95 FT MSL.

TREES BEGINNING 2186 FT FROM DER, 528 FT RIGHT OF CENTERLINE, UP TO 68 FT AGL/97 FT MSL.

TREES BEGINNING 2225 FT FROM DER, 835 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/100 FT MSL.

TREES BEGINNING 2274 FT FROM DER, 869 FT LEFT OF CENTERLINE, UP TO 72 FT AGL/108 FT MSL.

TREE 3182 FT FROM DER, 206 FT LEFT OF CENTERLINE, 82 FT AGL/120 FT MSL.

NOTE: RWY 15: BUILDINGS, POLES, FENCES BEGINNING 7 FT FROM DER, 302 FT LEFT OF CENTERLINE, UP TO 31 FT AGL/72 FT MSL.

FENCES BEGINNING 33 FT FROM DER, 468 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/48 FT MSL.

BUILDINGS, FENCES BEGINNING 104 FT FROM DER, 396 FT RIGHT OF CENTERLINE, UP TO 24 FT AGL/64 FT MSL.

TREE, FENCE, POLE BEGINNING 164 FT FROM DER, 388 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/76 FT MSL.

POLE, TRAVERSE WAY, TREE BEGINNING 282 FT FROM DER, 521 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/78 FT MSL.

POLE 398 FT FROM DER, 522 FT LEFT OF CENTERLINE, 36 FT AGL/76 FT MSL.

POLES, TRAVERSE WAYS, FENCE BEGINNING 412 FT FROM DER, 370 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/81 FT MSL.

BUILDING, POLE BEGINNING 463 FT FROM DER, 501 FT RIGHT OF CENTERLINE, UP TO 42 FT AGL/79 FT MSL.

BUILDINGS, TREES, POLES BEGINNING 512 FT FROM DER, 140 FT RIGHT OF CENTERLINE, UP TO 49 FT AGL/87 FT MSL.

TREES, POLES BEGINNING 958 FT FROM DER, 18 FT LEFT OF CENTERLINE, UP TO 56 FT AGL/93 FT MSL.

TREES BEGINNING 1250 FT FROM DER, 114 FT LEFT OF CENTERLINE, UP TO 58 FT AGL/94 FT MSL.

TREES BEGINNING 1329 FT FROM DER, 703 FT LEFT OF CENTERLINE, UP TO 63 FT AGL/97 FT MSL.

TREES BEGINNING 1336 FT FROM DER, 130 FT LEFT OF CENTERLINE, UP TO 65 FT AGL/98 FT MSL.

TREE 1836 FT FROM DER, 374 FT RIGHT OF CENTERLINE, 56 FT AGL/91 FT MSL.

TREE 1837 FT FROM DER, 331 FT RIGHT OF CENTERLINE, 57 FT AGL/92 FT MSL.

TREE 1845 FT FROM DER, 814 FT RIGHT OF CENTERLINE, 63 FT AGL/97 FT MSL.

TREES BEGINNING 1858 FT FROM DER, 835 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/98 FT MSL.

NOTE: RWY 24: POLE, BUILDING, FENCE BEGINNING 117 FT FROM DER, 487 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/74 FT MSL.

VEGETATION 229 FT FROM DER, 485 FT RIGHT OF CENTERLINE, 7 FT AGL/52 FT MSL.

TREES, TRAVERSE WAYS, BUILDINGS, POLES BEGINNING 231 FT FROM DER, 47 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/76 FT MSL.

FENCES BEGINNING 263 FT FROM DER, 548 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/55 FT MSL.

BUILDING, TRAVERSE WAYS BEGINNING 446 FT FROM DER, 10 FT RIGHT OF CENTERLINE, UP TO 16 FT AGL/60 FT MSL.

POLES, BUILDINGS BEGINNING 515 FT FROM DER, 194 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/81 FT MSL.

POLE, TRAVERSE WAY BEGINNING 572 FT FROM DER, 316 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/61 FT MSL.

TREE 607 FT FROM DER, 224 FT RIGHT OF CENTERLINE, 21 FT AGL/64 FT MSL.

TREE 617 FT FROM DER, 253 FT RIGHT OF CENTERLINE, 21 FT AGL/65 FT MSL.



POLE, TREES BEGINNING 618 FT FROM DER, 207 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/66 FT MSL.
 POLES, TREES BEGINNING 644 FT FROM DER, 42 FT RIGHT OF CENTERLINE, UP TO 28 FT AGL/69 FT MSL.
 POLES, TREES, BUILDINGS BEGINNING 669 FT FROM DER, 107 FT RIGHT OF CENTERLINE, UP TO 31 FT AGL/76 FT MSL.
 TREE, POLE BEGINNING 713 FT FROM DER, 577 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/84 FT MSL.
 TREES, BUILDING, POLES BEGINNING 734 FT FROM DER, 64 FT LEFT OF CENTERLINE, UP TO 52 FT AGL/93 FT MSL.
 TREES BEGINNING 823 FT FROM DER, 556 FT LEFT OF CENTERLINE, UP TO 53 FT AGL/95 FT MSL.
 TREES, POLES BEGINNING 847 FT FROM DER, 27 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/86 FT MSL.
 TREES, POLES, BUILDING BEGINNING 850 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 57 FT AGL/99 FT MSL.
 TREES, POLES, BUILDINGS BEGINNING 891 FT FROM DER, 4 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/98 FT MSL.
 TREES BEGINNING 1394 FT FROM DER, 357 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/99 FT MSL.
 TREES BEGINNING 1434 FT FROM DER, 274 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/100 FT MSL.
 TREES BEGINNING 1457 FT FROM DER, 210 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/103 FT MSL.
 TREES BEGINNING 1492 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/100 FT MSL.
 TREES BEGINNING 1515 FT FROM DER, 84 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/105 FT MSL.
 TREES BEGINNING 1604 FT FROM DER, 82 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/106 FT MSL.
 TREE 1687 FT FROM DER, 428 FT LEFT OF CENTERLINE, 64 FT AGL/106 FT MSL.
 TREES BEGINNING 1701 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/109 FT MSL.
 TREES BEGINNING 1716 FT FROM DER, 145 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/111 FT MSL.
 TREES BEGINNING 1786 FT FROM DER, 85 FT RIGHT OF CENTERLINE, UP TO 69 FT AGL/116 FT MSL.
 TREE 1858 FT FROM DER, 665 FT LEFT OF CENTERLINE, 74 FT AGL/115 FT MSL.
 TREES BEGINNING 1868 FT FROM DER, 183 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/117 FT MSL.

NOTE: RWY 33: TREE 440 FT FROM DER, 609 FT LEFT OF CENTERLINE, 25 FT AGL/76 FT MSL.
 TREES BEGINNING 483 FT FROM DER, 587 FT LEFT OF CENTERLINE, UP TO 23 FT AGL/77 FT MSL.
 TREE 704 FT FROM DER, 498 FT LEFT OF CENTERLINE, 18 FT AGL/78 FT MSL.
 TREES BEGINNING 709 FT FROM DER, 504 FT LEFT OF CENTERLINE, UP TO 21 FT AGL/80 FT MSL.
 TREES BEGINNING 757 FT FROM DER, 508 FT LEFT OF CENTERLINE, UP TO 19 FT AGL/81 FT MSL.
 TREES BEGINNING 807 FT FROM DER, 517 FT LEFT OF CENTERLINE, UP TO 22 FT AGL/84 FT MSL.
 TREES BEGINNING 837 FT FROM DER, 524 FT LEFT OF CENTERLINE, UP TO 25 FT AGL/86 FT MSL.
 TREES BEGINNING 862 FT FROM DER, 522 FT LEFT OF CENTERLINE, UP TO 27 FT AGL/87 FT MSL.
 TREES BEGINNING 885 FT FROM DER, 532 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/89 FT MSL.
 TREES BEGINNING 1006 FT FROM DER, 605 FT LEFT OF CENTERLINE, UP TO 32 FT AGL/92 FT MSL.
 TREE 1138 FT FROM DER, 797 FT RIGHT OF CENTERLINE, 54 FT AGL/100 FT MSL.
 TREES BEGINNING 1175 FT FROM DER, 781 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/105 FT MSL.
 TREES BEGINNING 1208 FT FROM DER, 747 FT RIGHT OF CENTERLINE, UP TO 53 FT AGL/107 FT MSL.
 TREES BEGINNING 1273 FT FROM DER, 592 FT LEFT OF CENTERLINE, UP TO 31 FT AGL/93 FT MSL.
 TREES BEGINNING 1282 FT FROM DER, 746 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/112 FT MSL.
 TREES BEGINNING 1312 FT FROM DER, 747 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/116 FT MSL.
 TREES BEGINNING 1356 FT FROM DER, 646 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/106 FT MSL.
 TREES BEGINNING 1543 FT FROM DER, 776 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/118 FT MSL.
 TREES BEGINNING 1584 FT FROM DER, 664 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/123 FT MSL.
 TREES BEGINNING 1729 FT FROM DER, 560 FT LEFT OF CENTERLINE, UP TO 48 FT AGL/114 FT MSL.
 TREE 2361 FT FROM DER, 431 FT LEFT OF CENTERLINE, 49 FT AGL/115 FT MSL.
 TREE 2927 FT FROM DER, 1142 FT RIGHT OF CENTERLINE, 55 FT AGL/128 FT MSL.
 TREE 2971 FT FROM DER, 1023 FT RIGHT OF CENTERLINE, 53 FT AGL/129 FT MSL.
 TREES BEGINNING 2971 FT FROM DER, 973 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/134 FT MSL.
 TREES BEGINNING 3007 FT FROM DER, 1076 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/141 FT MSL.
 TREES BEGINNING 3069 FT FROM DER, 1031 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/143 FT MSL.
 TREES BEGINNING 3122 FT FROM DER, 939 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/145 FT MSL.
 TREES BEGINNING 3161 FT FROM DER, 966 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/149 FT MSL.
 TREE 3179 FT FROM DER, 1053 FT RIGHT OF CENTERLINE, 52 FT AGL/150 FT MSL.
 TREES BEGINNING 3181 FT FROM DER, 905 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/151 FT MSL.
 TREES BEGINNING 3211 FT FROM DER, 964 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/156 FT MSL.
 TREES BEGINNING 3222 FT FROM DER, 833 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/157 FT MSL.
 TREES BEGINNING 3247 FT FROM DER, 833 FT RIGHT OF CENTERLINE, UP TO 51 FT AGL/161 FT MSL.
 TREE 3325 FT FROM DER, 1213 FT RIGHT OF CENTERLINE, 48 FT AGL/162 FT MSL.
 TREE 3341 FT FROM DER, 1361 FT RIGHT OF CENTERLINE, 42 FT AGL/163 FT MSL.
 TREE 3348 FT FROM DER, 1256 FT RIGHT OF CENTERLINE, 53 FT AGL/164 FT MSL.
 TREES BEGINNING 3348 FT FROM DER, 1229 FT RIGHT OF CENTERLINE, UP TO 53 FT AGL/165 FT MSL.
 TREES BEGINNING 3366 FT FROM DER, 1085 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/167 FT MSL.
 TREES, BUILDING BEGINNING 3386 FT FROM DER, 1108 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/171 FT MSL.
 TREES, BUILDING, POLE BEGINNING 3535 FT FROM DER, 953 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/172 FT MSL.
 TREES BEGINNING 3593 FT FROM DER, 1189 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/176 FT MSL.
 TREE 3619 FT FROM DER, 1356 FT RIGHT OF CENTERLINE, 53 FT AGL/178 FT MSL.
 TREES, BUILDINGS, POLE BEGINNING 3635 FT FROM DER, 918 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/182 FT MSL.
 TREES BEGINNING 3872 FT FROM DER, 1177 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/189 FT MSL.
 TRANSMISSION LINES, TREES, POLES, TOWER, CATENARY WIRES BEGINNING 3957 FT FROM DER, 958 FT RIGHT OF CENTERLINE, UP TO 97 FT AGL/235 FT MSL.
 CATENARY WIRES, TREES, TRANSMISSION LINES, POLES BEGINNING 4470 FT FROM DER, 381 FT RIGHT OF CENTERLINE, UP TO 105 FT AGL/220 FT MSL.
 TRANSMISSION LINE 4656 FT FROM DER, 1528 FT LEFT OF CENTERLINE, 91 FT AGL/171 FT MSL.
 TRANSMISSION LINE, TOWER BEGINNING 4689 FT FROM DER, 334 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/181 FT MSL.

TRANSMISSION LINE 5116 FT FROM DER, 798 FT LEFT OF CENTERLINE, 91 FT AGL/183 FT MSL.
TRANSMISSION LINE 5119 FT FROM DER, 184 FT LEFT OF CENTERLINE, 86 FT AGL/194 FT MSL.
TRANSMISSION LINE 5161 FT FROM DER, 184 FT LEFT OF CENTERLINE, 95 FT AGL/200 FT MSL.

CONTROLLING OBSTACLES:

RWY 33: 235 FT MSL TRANSMISSION_LINE 414108.84N/0701749.09W (CLIMB GRADIENT) (CLIMB-TO ALTITUDE) (CEILING), 220 FT MSL CATENARY 414110.16N/0701757.47W (VISIBILITY).
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 33: 546 FT MSL TOWER 414120.09N/0702047.06W.

REMARKS:

<u>FLIGHT INSPECTED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>
BOB S PRESSLER	MICHAEL GARRITY	FPO	10/24/2023
	Oct 26, 2023		

<u>DEVELOPED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>
MICHAEL R. GARRITY JR. (STEVEN SCHUTRUM)	MICHAEL GARRITY	AJV-A423	09/15/2023
	Oct 26, 2023		

<u>APPROVED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
MICHAEL R. GARRITY JR.	MICHAEL GARRITY	AJV-A423	01/25/2024	MANAGER
	Oct 26, 2023			

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒

OTHER: ZBW, CAPE APP CON, HYA ATCT, AMGR

CHANGES - REASONS:

1. UPDATED TAKE OFF OBSTACLE NOTES FOR ALL RUNWAYS - UPDATED TARGETS EVAL AND NEW SURVEY DATA.
2. CHANGED TAKE OFF MINIMUMS RWY 33 FROM "300-1 OR STANDARD WITH A MINIMUM CLIMB OF 354 FT/NM TO 300" TO "RWY 33: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 366 FT/NM TO 300" -- CONTROLLING OBST AC AND LOCATION UPDATED.
3. ADDED TAKEOFF CONTROLLING OBSTACLES - NOT PREVIOUSLY DOCUMENTED.
4. DELETED RWY 24 TEXTUAL DEPARTURE PROCEDURE - OBST NO LONGER A FACTOR BASED ON UPDATED TARGETS EVALUATION.
5. CHANGED RWY 33 TEXTUAL DEPARTURE PROCEDURE FROM "CLIMB RWY HEADING TO 700 BEFORE PROCEEDING ON COURSE" TO "RWY 33: CLIMB ON HEADING 335.78 TO 700 BEFORE TURNING LEFT" - LEAST RESTRICTIVE IAW 8260.46J AND UPDATED TARGETS EVALUATION.