

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
MORRISTOWN, NJ	MORRISTOWN MUNI	2 JANUARY 2020	8

TAKEOFF MINIMUMS:

RWY 5: STANDARD.

RWY 13: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 500.

RWY 23: 400-2 1/4 WITH MINIMUM CLIMB OF 205 FT PER NM TO 700 OR STANDARD WITH MINIMUM CLIMB OF 460 FT PER NM TO 700.

RWY 31: 400-1 3/8 WITH MINIMUM CLIMB OF 320 FT PER NM TO 1500.

TEXTUAL DEPARTURE PROCEDURES:

RWY 5: CLIMB ON HEADING 49.10 TO 600 BEFORE TURNING LEFT.

RWY 13: CLIMB ON HEADING 126.93 TO 800 BEFORE TURNING LEFT.

RWY 23: CLIMB ON HEADING 229.11 TO 900 BEFORE TURNING RIGHT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 5: LIGHTING 5 FT FROM DER, 6 FT RIGHT OF CENTERLINE, 1 FT AGL/184 FT MSL.

TREES BEGINNING 6 FT FROM DER, 285 FT RIGHT OF CENTERLINE, UP TO 187 FT MSL.

TREE 16 FT FROM DER, 300 FT RIGHT OF CENTERLINE, 36 FT AGL/209 FT MSL.

TREES BEGINNING 20 FT FROM DER, 424 FT RIGHT OF CENTERLINE, UP TO 39 FT AGL/212 FT MSL.

TREES BEGINNING 131 FT FROM DER, 476 FT LEFT OF CENTERLINE, UP TO 27 FT AGL/201 FT MSL.

TREE 526 FT FROM DER, 518 FT LEFT OF CENTERLINE, 216 FT MSL.

TREES BEGINNING 626 FT FROM DER, 546 FT LEFT OF CENTERLINE, UP TO 236 FT MSL.

TREES BEGINNING 973 FT FROM DER, 436 FT LEFT OF CENTERLINE, UP TO 244 FT MSL.

TREES BEGINNING 1116 FT FROM DER, 506 FT LEFT OF CENTERLINE, UP TO 248 FT MSL.

TREE 1218 FT FROM DER, 740 FT LEFT OF CENTERLINE, 252 FT MSL.

TREES BEGINNING 1343 FT FROM DER, 455 FT LEFT OF CENTERLINE, UP TO 260 FT MSL.

TREES BEGINNING 1690 FT FROM DER, 662 FT RIGHT OF CENTERLINE, UP TO 229 FT MSL.

TREES BEGINNING 1698 FT FROM DER, 388 FT LEFT OF CENTERLINE, UP TO 273 FT MSL.

TREE 1790 FT FROM DER, 610 FT RIGHT OF CENTERLINE, 239 FT MSL.

TREES BEGINNING 1796 FT FROM DER, 723 FT RIGHT OF CENTERLINE, UP TO 249 FT MSL.

TREES BEGINNING 1843 FT FROM DER, 518 FT RIGHT OF CENTERLINE, UP TO 256 FT MSL.

TREES BEGINNING 1911 FT FROM DER, 310 FT RIGHT OF CENTERLINE, UP TO 266 FT MSL.

TREES BEGINNING 2077 FT FROM DER, 536 FT LEFT OF CENTERLINE, UP TO 280 FT MSL.

TREES BEGINNING 2177 FT FROM DER, 364 FT LEFT OF CENTERLINE, UP TO 107 FT AGL/284 FT MSL.

TREES BEGINNING 2302 FT FROM DER, 533 FT RIGHT OF CENTERLINE, UP TO 278 FT MSL.

TREES BEGINNING 2340 FT FROM DER, 649 FT RIGHT OF CENTERLINE, UP TO 288 FT MSL.

TREE 2405 FT FROM DER, 950 FT LEFT OF CENTERLINE, 109 FT AGL/286 FT MSL.

TREES BEGINNING 2408 FT FROM DER, 48 FT LEFT OF CENTERLINE, UP TO 287 FT MSL.

TREES BEGINNING 2423 FT FROM DER, 44 FT RIGHT OF CENTERLINE, UP TO 290 FT MSL.

NOTE: RWY 13: TREE, LIGHTING BEGINNING 38 FT FROM DER, 150 FT LEFT OF CENTERLINE, UP TO 187 FT MSL.

LIGHTING 39 FT FROM DER, 150 FT RIGHT OF CENTERLINE, 4 FT AGL/184 FT MSL.

TREE 46 FT FROM DER, 478 FT LEFT OF CENTERLINE, 209 FT MSL.

TREES BEGINNING 50 FT FROM DER, 153 FT LEFT OF CENTERLINE, UP TO 53 FT AGL/228 FT MSL.

TREE 69 FT FROM DER, 297 FT RIGHT OF CENTERLINE, 188 FT MSL.

TREES, VEGETATION BEGINNING 208 FT FROM DER, 79 FT RIGHT OF CENTERLINE, UP TO 28 FT AGL/203 FT MSL.

TREES, TANK BEGINNING 468 FT FROM DER, 500 FT RIGHT OF CENTERLINE, UP TO 227 FT MSL.

TREES BEGINNING 663 FT FROM DER, 49 FT RIGHT OF CENTERLINE, UP TO 85 FT AGL/261 FT MSL.

TREE 1460 FT FROM DER, 734 FT LEFT OF CENTERLINE, 240 FT MSL.

TREE 1522 FT FROM DER, 566 FT RIGHT OF CENTERLINE, 263 FT MSL.

TREES BEGINNING 1526 FT FROM DER, 10 FT RIGHT OF CENTERLINE, UP TO 276 FT MSL.

TREES BEGINNING 1545 FT FROM DER, 127 FT LEFT OF CENTERLINE, UP TO 265 FT MSL.

TREES BEGINNING 1666 FT FROM DER, 27 FT LEFT OF CENTERLINE, UP TO 266 FT MSL.

TREES BEGINNING 1713 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 271 FT MSL.

TREES BEGINNING 2152 FT FROM DER, 124 FT LEFT OF CENTERLINE, UP TO 94 FT AGL/272 FT MSL.

QUALITY
8
CHECKED

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TREES BEGINNING 2252 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 275 FT MSL.
TREES BEGINNING 3269 FT FROM DER, 426 FT LEFT OF CENTERLINE, UP TO 284 FT MSL.
TREES BEGINNING 3484 FT FROM DER, 398 FT LEFT OF CENTERLINE, UP TO 291 FT MSL.
TREES BEGINNING 3744 FT FROM DER, 33 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/277 FT MSL.
TREE 4002 FT FROM DER, 328 FT RIGHT OF CENTERLINE, 91 FT AGL/285 FT MSL.
TREE 4142 FT FROM DER, 824 FT LEFT OF CENTERLINE, 292 FT MSL.
TREES BEGINNING 4152 FT FROM DER, 1082 FT LEFT OF CENTERLINE, UP TO 294 FT MSL.
TREES BEGINNING 4228 FT FROM DER, 370 FT LEFT OF CENTERLINE, UP TO 296 FT MSL.
TREE 4279 FT FROM DER, 289 FT RIGHT OF CENTERLINE, 87 FT AGL/290 FT MSL.
TREES BEGINNING 4297 FT FROM DER, 950 FT LEFT OF CENTERLINE, UP TO 297 FT MSL.
TREE 4412 FT FROM DER, 520 FT RIGHT OF CENTERLINE, 292 FT MSL.
TREE 4414 FT FROM DER, 632 FT RIGHT OF CENTERLINE, 300 FT MSL.
TANKS BEGINNING 1.2 NM FROM DER, 1783 FT RIGHT OF CENTERLINE, UP TO 135 FT AGL/394 FT MSL.

NOTE: RWY 23: LIGHTING 21 FT FROM DER, 114 FT LEFT OF CENTERLINE, 4 FT AGL/184 FT MSL.
LIGHTING 21 FT FROM DER, 114 FT RIGHT OF CENTERLINE, 4 FT AGL/184 FT MSL.
TREES BEGINNING 58 FT FROM DER, 368 FT RIGHT OF CENTERLINE, UP TO 192 FT MSL.
TREE 125 FT FROM DER, 287 FT LEFT OF CENTERLINE, 189 FT MSL.
TREES BEGINNING 140 FT FROM DER, 256 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/221 FT MSL.
TREE 233 FT FROM DER, 279 FT LEFT OF CENTERLINE, 190 FT MSL.
TREES BEGINNING 370 FT FROM DER, 499 FT LEFT OF CENTERLINE, UP TO 47 FT AGL/222 FT MSL.
TREES BEGINNING 438 FT FROM DER, 375 FT LEFT OF CENTERLINE, UP TO 243 FT MSL.
TREES BEGINNING 635 FT FROM DER, 542 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/241 FT MSL.
TREES BEGINNING 859 FT FROM DER, 205 FT RIGHT OF CENTERLINE, UP TO 247 FT MSL.
TREES BEGINNING 957 FT FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 249 FT MSL.
TREES BEGINNING 1177 FT FROM DER, 667 FT LEFT OF CENTERLINE, UP TO 248 FT MSL.
TREE 1381 FT FROM DER, 831 FT LEFT OF CENTERLINE, 252 FT MSL.
TREES BEGINNING 1406 FT FROM DER, 454 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/257 FT MSL.
TREES BEGINNING 1467 FT FROM DER, 48 FT LEFT OF CENTERLINE, UP TO 97 FT AGL/275 FT MSL.
TREES BEGINNING 1517 FT FROM DER, 57 FT RIGHT OF CENTERLINE, UP TO 254 FT MSL.
TREE 2077 FT FROM DER, 780 FT RIGHT OF CENTERLINE, 257 FT MSL.
TREE 2088 FT FROM DER, 972 FT RIGHT OF CENTERLINE, 265 FT MSL.
TREES BEGINNING 2092 FT FROM DER, 140 FT RIGHT OF CENTERLINE, UP TO 267 FT MSL.
TREES BEGINNING 2118 FT FROM DER, 16 FT RIGHT OF CENTERLINE, UP TO 96 FT AGL/280 FT MSL.
TREES BEGINNING 2322 FT FROM DER, 29 FT RIGHT OF CENTERLINE, UP TO 286 FT MSL.
TREES BEGINNING 2330 FT FROM DER, 63 FT LEFT OF CENTERLINE, UP TO 96 FT AGL/279 FT MSL.
TREES BEGINNING 2369 FT FROM DER, 748 FT LEFT OF CENTERLINE, UP TO 282 FT MSL.
TREES, BUILDING BEGINNING 2508 FT FROM DER, 153 FT RIGHT OF CENTERLINE, UP TO 292 FT MSL.
TREES, BUILDINGS BEGINNING 2648 FT FROM DER, 570 FT LEFT OF CENTERLINE, UP TO 293 FT MSL.
TREES, BUILDINGS BEGINNING 2721 FT FROM DER, 202 FT RIGHT OF CENTERLINE, UP TO 294 FT MSL.
TREES, BUILDING BEGINNING 3045 FT FROM DER, 36 FT RIGHT OF CENTERLINE, UP TO 319 FT MSL.
TREES BEGINNING 3186 FT FROM DER, 350 FT RIGHT OF CENTERLINE, UP TO 350 FT MSL.
TREES, BUILDING BEGINNING 3280 FT FROM DER, 180 FT RIGHT OF CENTERLINE, UP TO 370 FT MSL.
TREES, TERRAIN BEGINNING 3593 FT FROM DER, 552 FT RIGHT OF CENTERLINE, UP TO 378 FT MSL.
TREES BEGINNING 3645 FT FROM DER, 709 FT LEFT OF CENTERLINE, UP TO 295 FT MSL.
TREES, TERRAIN, BUILDINGS BEGINNING 3746 FT FROM DER, 540 FT RIGHT OF CENTERLINE, UP TO 381 FT MSL.
TREES BEGINNING 4140 FT FROM DER, 1159 FT RIGHT OF CENTERLINE, UP TO 389 FT MSL.
TREES, POLE BEGINNING 4243 FT FROM DER, 933 FT RIGHT OF CENTERLINE, UP TO 397 FT MSL.
TREES, TERRAIN BEGINNING 4352 FT FROM DER, 616 FT RIGHT OF CENTERLINE, UP TO 412 FT MSL.
TREES, TERRAIN, BUILDING BEGINNING 4515 FT FROM DER, 145 FT RIGHT OF CENTERLINE, UP TO 427 FT MSL.
TREE 4610 FT FROM DER, 27 FT LEFT OF CENTERLINE, 57 FT AGL/301 FT MSL.
TREES, TERRAIN, BUILDINGS, FENCE, POLE, VEHICLE ON ROAD BEGINNING 4710 FT FROM DER, 226 FT RIGHT OF CENTERLINE, UP TO 428 FT MSL.



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MSL.

TREE 4713 FT FROM DER, 23 FT LEFT OF CENTERLINE, 63 FT AGL/311 FT MSL.
TREES, POLES, TERRAIN, BUILDINGS, VEHICLES ON ROAD BEGINNING 5287 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 460 FT MSL.
TREE 5420 FT FROM DER, 116 FT LEFT OF CENTERLINE, 72 FT AGL/339 FT MSL.
TREE 5473 FT FROM DER, 210 FT LEFT OF CENTERLINE, 80 FT AGL/343 FT MSL.
TREES BEGINNING 5742 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 81 FT AGL/367 FT MSL.
TREES, VEHICLE ON ROAD, POLE, BUILDINGS BEGINNING 6037 FT FROM DER, 26 FT RIGHT OF CENTERLINE, UP TO 462 FT MSL.
TREES BEGINNING 1 NM FROM DER, 246 FT RIGHT OF CENTERLINE, UP TO 469 FT MSL.
TREES BEGINNING 1 NM FROM DER, 71 FT LEFT OF CENTERLINE, UP TO 415 FT MSL.
TREES BEGINNING 1 NM FROM DER, 44 FT RIGHT OF CENTERLINE, UP TO 470 FT MSL.
TREES, BUILDING BEGINNING 1 NM FROM DER, 150 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/482 FT MSL.
TREE, BUILDING BEGINNING 1 NM FROM DER, 1420 FT RIGHT OF CENTERLINE, UP TO 485 FT MSL.
TREES, POLE, BUILDINGS BEGINNING 1 NM FROM DER, 63 FT RIGHT OF CENTERLINE, UP TO 488 FT MSL.
TREES, VEHICLE ON ROAD, BUILDING, FENCE BEGINNING 1 NM FROM DER, 37 FT LEFT OF CENTERLINE, UP TO 418 FT MSL.
TANKS, TREES, BUILDINGS, TERRAIN, VEHICLES ON ROAD, FENCE, ELECTRICAL SYSTEM, POLE BEGINNING 1 NM FROM DER, 17 FT RIGHT OF CENTERLINE, UP TO 512 FT MSL.
TREES BEGINNING 1.1 NM FROM DER, 46 FT LEFT OF CENTERLINE, UP TO 419 FT MSL.
TREES, BUILDINGS, VEHICLE ON ROAD, TERRAIN, POLE BEGINNING 1.1 NM FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 446 FT MSL.
STACK, TREES, VEHICLES ON ROAD, TERRAIN, BUILDINGS, POLES, ELECTRICAL SYSTEM BEGINNING 1.1 NM FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 154 FT AGL/529 FT MSL.
BUILDINGS, TREES, POLES, VEHICLES ON ROAD, TERRAIN, ELECTRICAL SYSTEMS, ANTENNAS, TOWER BEGINNING 1.2 NM FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 168 FT AGL/546 FT MSL.
TREES BEGINNING 1.3 NM FROM DER, 21 FT LEFT OF CENTERLINE, UP TO 448 FT MSL.
TREE 1.3 NM FROM DER, 438 FT LEFT OF CENTERLINE, 452 FT MSL.
TREES, POLES BEGINNING 1.3 NM FROM DER, 61 FT LEFT OF CENTERLINE, UP TO 462 FT MSL.
TREES, BUILDING BEGINNING 1.3 NM FROM DER, 35 FT LEFT OF CENTERLINE, UP TO 468 FT MSL.
TREES BEGINNING 1.4 NM FROM DER, 121 FT LEFT OF CENTERLINE, UP TO 472 FT MSL.
TREES, BUILDINGS BEGINNING 1.4 NM FROM DER, 25 FT LEFT OF CENTERLINE, UP TO 476 FT MSL.
TREES, BUILDINGS BEGINNING 1.4 NM FROM DER, 16 FT LEFT OF CENTERLINE, UP TO 106 FT AGL/488 FT MSL.
TANK, TREES, BUILDINGS BEGINNING 1.5 NM FROM DER, 122 FT LEFT OF CENTERLINE, UP TO 114 FT AGL/491 FT MSL.
TREE 1.7 NM FROM DER, 3156 FT LEFT OF CENTERLINE, 454 FT MSL.

NOTE: RWY 31: TREE 2 FT FROM DER, 285 FT RIGHT OF CENTERLINE, 33 FT AGL/213 FT MSL.
TREE 24 FT FROM DER, 409 FT RIGHT OF CENTERLINE, 245 FT MSL.
TREE 68 FT FROM DER, 506 FT RIGHT OF CENTERLINE, 88 FT AGL/275 FT MSL.
TREES, FENCE BEGINNING 115 FT FROM DER, 232 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/278 FT MSL.
TREE 205 FT FROM DER, 175 FT LEFT OF CENTERLINE, 16 FT AGL/202 FT MSL.
TREE 274 FT FROM DER, 292 FT LEFT OF CENTERLINE, 40 FT AGL/224 FT MSL.
TREE 292 FT FROM DER, 402 FT LEFT OF CENTERLINE, 52 FT AGL/236 FT MSL.
TREES BEGINNING 298 FT FROM DER, 206 FT LEFT OF CENTERLINE, UP TO 245 FT MSL.
TREES BEGINNING 475 FT FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 256 FT MSL.
TREES BEGINNING 607 FT FROM DER, 218 FT RIGHT OF CENTERLINE, UP TO 289 FT MSL.
TREES, BUILDING BEGINNING 622 FT FROM DER, ON AND LEFT OF CENTERLINE, UP TO 274 FT MSL.
TREES BEGINNING 708 FT FROM DER, 327 FT RIGHT OF CENTERLINE, UP TO 290 FT MSL.
TREES BEGINNING 851 FT FROM DER, 303 FT RIGHT OF CENTERLINE, UP TO 309 FT MSL.
TREES BEGINNING 918 FT FROM DER, 129 FT LEFT OF CENTERLINE, UP TO 286 FT MSL.
TREES BEGINNING 978 FT FROM DER, 94 FT RIGHT OF CENTERLINE, UP TO 325 FT MSL.
TREES BEGINNING 1082 FT FROM DER, 285 FT RIGHT OF CENTERLINE, UP TO 339 FT MSL.
TREES, FENCE BEGINNING 1119 FT FROM DER, 24 FT LEFT OF CENTERLINE, UP TO 322 FT MSL.
TREES BEGINNING 1193 FT FROM DER, 72 FT RIGHT OF CENTERLINE, UP TO 364 FT MSL.
TREES, TERRAIN, FENCE BEGINNING 1399 FT FROM DER, 374 FT LEFT OF CENTERLINE, UP TO 326 FT MSL.
TREES, BUILDINGS, ELECTRICAL SYSTEM, POLES, VEHICLE ON ROAD, FENCE, TERRAIN BEGINNING 1476 FT FROM DER, 7 FT RIGHT OF

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CENTERLINE, UP TO 384 FT MSL.
 TREES BEGINNING 1538 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 329 FT MSL.
 TREES, TERRAIN BEGINNING 1641 FT FROM DER, 132 FT LEFT OF CENTERLINE, UP TO 334 FT MSL.
 TREES, FENCE, POLES BEGINNING 1963 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 344 FT MSL.
 TREES, ELECTRICAL SYSTEMS, BUILDINGS BEGINNING 2624 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 347 FT MSL.
 TREES BEGINNING 3426 FT FROM DER, 70 FT LEFT OF CENTERLINE, UP TO 361 FT MSL.
 TREE 3782 FT FROM DER, 1040 FT LEFT OF CENTERLINE, 362 FT MSL.
 TREES, BUILDING, POLE BEGINNING 3792 FT FROM DER, 62 FT LEFT OF CENTERLINE, UP TO 379 FT MSL.
 TREES, TERRAIN, BUILDING, VEHICLE ON ROAD BEGINNING 3998 FT FROM DER, 68 FT RIGHT OF CENTERLINE, UP TO 394 FT MSL.
 TREES, BUILDING BEGINNING 4002 FT FROM DER, 14 FT LEFT OF CENTERLINE, UP TO 431 FT MSL.
 TREES, FENCE, BUILDINGS, VEHICLE ON ROAD, ELECTRICAL SYSTEM, TERRAIN BEGINNING 4128 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 441 FT MSL.
 TREES, BUILDINGS, VEHICLES ON ROAD, POLES BEGINNING 4208 FT FROM DER, 13 FT RIGHT OF CENTERLINE, UP TO 411 FT MSL.
 TREES, BUILDING BEGINNING 4542 FT FROM DER, 187 FT LEFT OF CENTERLINE, UP TO 446 FT MSL.
 TREES, VEHICLES ON ROAD BEGINNING 4721 FT FROM DER, 67 FT LEFT OF CENTERLINE, UP TO 451 FT MSL.
 TREES, TERRAIN, FENCE BEGINNING 4823 FT FROM DER, 16 FT LEFT OF CENTERLINE, UP TO 463 FT MSL.
 TREES, VEHICLES ON ROAD, TERRAIN BEGINNING 4869 FT FROM DER, 73 FT LEFT OF CENTERLINE, UP TO 466 FT MSL.
 TREES, TERRAIN, BUILDINGS, VEHICLE ON ROAD, POLE BEGINNING 4972 FT FROM DER, 134 FT LEFT OF CENTERLINE, UP TO 482 FT MSL.
 TREES, TERRAIN, POLE BEGINNING 5194 FT FROM DER, 96 FT LEFT OF CENTERLINE, UP TO 485 FT MSL.
 TREES, VEHICLES ON ROAD, TERRAIN, POLES, FENCES, BUILDINGS, ANTENNAS, TOWERS, ELECTRICAL SYSTEMS BEGINNING 5315 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 495 FT MSL.
 TREE 1.6 NM FROM DER, 2306 FT RIGHT OF CENTERLINE, 89 FT AGL/444 FT MSL.
 TREE 1.6 NM FROM DER, 1792 FT RIGHT OF CENTERLINE, 475 FT MSL.
 TREES BEGINNING 1.7 NM FROM DER, 2448 FT RIGHT OF CENTERLINE, UP TO 504 FT MSL.
 TREE 1.7 NM FROM DER, 1958 FT RIGHT OF CENTERLINE, 128 FT AGL/596 FT MSL.
 TREES, BUILDING BEGINNING 1.7 NM FROM DER, 1350 FT RIGHT OF CENTERLINE, UP TO 122 FT AGL/604 FT MSL.
 ANTENNA 1.8 NM FROM DER, 193 FT LEFT OF CENTERLINE, 214 FT AGL/509 FT MSL.
 TOWER 1.8 NM FROM DER, 51 FT LEFT OF CENTERLINE, 205 FT AGL/513 FT MSL.
 ANTENNAS, TOWERS BEGINNING 1.8 NM FROM DER, 52 FT LEFT OF CENTERLINE, UP TO 210 FT AGL/516 FT MSL.
 TREE 2.4 NM FROM DER, 3826 FT RIGHT OF CENTERLINE, 559 FT MSL.

CONTROLLING OBSTACLES:

RWY 13: 394 FT MSL TANK 404701.00N/0742322.00W.
RWY 23: 370 FT MSL TREE 404715.99N/0742547.03W (460 CLIMB GRADIENT); 570 FT TREE 404551.09N/0742743.33W (205 CLIMB GRADIENT/205 CG CLIMB-TO ALTITUDE); 483 FT TREE 404625.00N/0742657.01W (VISIBILITY); 546 FT MSL BUILDING 404646.50N/0742622.93W (460 CG CLIMB-TO ALTITUDE/CEILING).
RWY 31: 1139 FT MSL AAO 405053.79N/0742913.50W (CLIMB GRADIENT); 1179 FT MSL AAO 405056.91N/0742935.92W (CLIMB-TO ALTITUDE); 460 FT MSL TREE 404810.34N/0742700.30W (VISIBILITY); 495 FT MSL TREE 404810.53N/0742639.75W (CEILING).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 5: 1139 FT MSL AAO 405053.79N/0742913.50W.
RWY 13: 683 FT MSL TOWER 404751.00N/0742136.00W.
RWY 23: 1457 FT MSL TOWER 404920.60N/0743320.75W.

REMARKS:

VCOA NOT ESTABLISHED AT ATC REQUEST DUE TO TRAFFIC DENSITY AT AIRPORT.

FLIGHT INSPECTED BY:

BOB S PRESSLER
Digitally signed by
HEIDI SNIDER
 Nov 06, 2019

OFFICE SYMBOL:

FICO

DATE:

11/4/19

DEVELOPED BY:

CASIMIR L. TABAKA (MADELINE CLARK)
Digitally signed by
CASIMIR L TABAKA
 Jun 05, 2019

OFFICE SYMBOL:

AJV-A422

DATE:

05/13/2019



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APPROVED BY:	OFFICE SYMBOL:	DATE:
MARLON ROBINSON	AJV-A420	
<i>Digitally signed by</i> CASIMIR L TABAKA		

Jun 05, 2019

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

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

OTHER:
ZNY, NY APP CON, AMGR, ST AERO DIV

CHANGES - REASONS:

1. CHANGED RWY 5 TAKEOFF MINIMUMS FROM **RWY 5**: 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 210 FT PER NM TO 500, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FEET PRIOR TO DER TO **RWY 5**: STANDARD - NEW VG SURVEY.
2. CHANGED RWY 23 TAKEOFF MINIMUMS FROM **RWY 23**: 400-2 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 475 FT PER NM TO 600 TO **RWY 23**: 400-2 1/4 WITH MINIMUM CLIMB OF 205 FT PER NM TO 700 OR STANDARD TAKEOFF MINIMUMS WITH A MINIMUM CLIMB OF 460 FT PER NM TO 700 - NEW VG SURVEY.
3. CHANGED RWY 31 TAKEOFF MINIMUMS FROM **RWY 31**: 300-1 WITH MINIMUM CLIMB OF 310 FT PER NM TO 1500 TO **RWY 31**: 400-1 3/8 WITH MINIMUM CLIMB OF 320 FT PER NM TO 1500 - NEW VG SURVEY.
4. ADDED RWY 5 TEXTUAL DEPARTURE PROCEDURE **RWY 5**: CLIMB HEADING 49.10 TO 600 BEFORE TURNING LEFT - NEW EVALUATION YIELDED NEW CLIMB-TO-ALTITUDE.
5. CHANGED RWY 13 TEXTUAL DEPARTURE PROCEDURE TURN DIRECTION FROM "NORTHBOUND" TO "LEFT" - CLARIFIY AND SIMPLIFY TURN LIMITATION PER 8260.46G APX D, SEC 1.8.(1).
6. CHANGED RWY 23 TEXTUAL DEPARTURE PROCEDURE TURN DIRECTION FROM "WESTBOUND" TO RIGHT - CLARIFIY AND SIMPLIFY TURN LIMITATION PER 8260.46G APX D, SEC 1.8.(1).
7. UPDATED TAKEOFF OBSTACLE NOTES FOR ALL RWYS - NEW VG SURVEY.
8. UPDATED CONTROLLING OBSTACLES FOR ALL RWYS - NEW VG SURVEY.
9. ADDED RWY 5 OBSTACLE MANDATING ODP ROUTE DEVELOPMENT **RWY 5**: 1139 FT MSL AAO 405053.79N/0742913.50W - NEW VG SURVEY.
10. REMOVED A4A, APA, AND HAI FROM ORGANIZATIONS COORDINATED WITH - NOT A PART 139 AIRPORT WITH SCHEDULED AIR CARRIERS, NO SERVICE BY AMERICAN AIRLINES, AND NOT A HELICOPTER PROCEDURE.