

FEDERAL AVIATION ADMINISTRATION  
OBSTRUCTION DATA FOR ARRIVAL/DEPARTURE OF AIRCRAFT

MALCOLM MCKINNON AIRPORT

BRUNSWICK, GEORGIA

ODS 168

1st EDITION

OC 168

SURVEYED MARCH 1984

10th EDITION

PREPARED AND DISTRIBUTED BY  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE

## **OBSTRUCTION DATA SHEET**

A new computer generated data run, called the Obstruction Data Sheet (ODS), has been developed to permit dissemination of airport obstruction survey data in a more timely manner following completion of surveys at airports. The ODS will be published as soon as possible after the survey and prior to the printing and distribution of the Airport Obstruction Chart. Thus, we expect that important survey data will be made available to users 3 or 4 months prior to the publication of the Airport Obstruction Chart.

The ODS will carry the same name and number as the corresponding Airport Obstruction Chart and will be made available to users on a one copy ODS for one copy Airport Obstruction Chart basis.

We plan to evaluate the ODS concept and format after users have gained some experience with the product.

## FEDERAL AVIATION ADMINISTRATION

### OBSTRUCTION DATA FOR ARRIVAL/DEPARTURE OF AIRCRAFT

THE ENCLOSED OBSTRUCTION INFORMATION IS THE RESULT OF THE FIELD SURVEY PERFORMED BY THE NATIONAL OCEAN SERVICE (NOS) FOR THE FEDERAL AVIATION ADMINISTRATION (FAA) IN ACCORDANCE WITH FAA FEDERAL AIR REGULATIONS (FAR) PART 77. THESE DATA ARE FURNISHED IN ADVANCE OF THE PUBLISHED AIRPORT OBSTRUCTION CHART (OC) OF THE CORRESPONDING AIRPORT.

THIS REPORT LISTS THE OBSTRUCTIONS EXISTING AT THE TIME OF THE SURVEY.

A DIAGRAM SHOWING RUNWAY ORIENTATION AND RELATED RUNWAY DATA IS INCLUDED.

OBSTRUCTION DATA IS LISTED WITH REFERENCE TO THE ARP OR THE RUNWAY END.

OBSTRUCTIONS IN THE PRIMARY, APPROACH/DEPARTURE SURFACES ARE REFERENCED TO THE APPROPRIATE PHYSICAL CENTERLINE END OF THE RUNWAY.

OBSTRUCTIONS IN THE TRANSITIONAL, HORIZONTAL AND CONICAL SURFACES ARE REFERENCED TO THE AIRPORT REFERENCE POINT (ARP).

POSITIONS AND ELEVATIONS HAVE BEEN TIED TO THE NATIONAL NETWORK OF GEODETIC CONTROL.

RUNWAY SURVEYING CRITERIA.

PIR	Precision Instrument Runway. 50:1 Slope first 10,000 FT 40:1 for the next 40,000 FT
D	Nonprecision Instrument Runway with visibility minimums as low as $\frac{3}{4}$ mile. 34:1 Slope
C	Nonprecision Instrument Runway with visibility minimums greater than $\frac{3}{4}$ mile. 34:1 Slope
B(V)	Visual runway with visual approach only. 20:1 Slope
A(NP)	Utility runway with nonprecision instrument approach. 20:1 Slope
A(V)	Utility runway with visual approach only. 20:1 Slope

# ANNOTATION OF SAMPLE OBSTRUCTION DATA

THE DISTANCES AND MAGNETIC BEARINGS COMPUTED FOR THE OBSTRUCTIONS THAT FOLLOW ARE REFERENCED TO THIS POINT

FAA PART 77 APPROACH CATEGORY FOR WHICH OBSTRUCTION SURVEY WAS PERFORMED

MEASURED FROM SOUTH

PHYS END RWY 34 D

LAT 38 30 22.066N LONG 121 29 34.116W

GEODETIC AZIMUTH 168 05 12

ELEV\* A\*\* OBJECT\*\*\*

LAT

LONG

M BRG

DIST

OUTCL

OFFCL

0048 1A WDI  
0092 1A TREE

38 31 04.201  
38 31 33.811

121 29 40.588  
121 30 02.190

354 7  
343 55

4293  
7593

4277  
7562

377R  
685L

ELEVATION ACCURACY DESCRIPTION

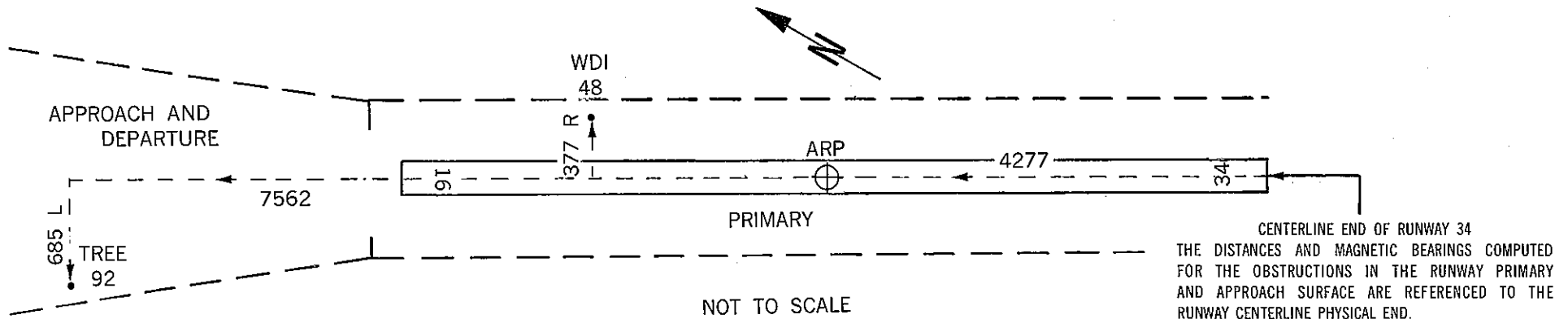
MAGNETIC BEARING  
DISTANCE  
DISTANCE ALONG THE RUNWAY CENTERLINE EXTENDED  
DISTANCE LEFT OR RIGHT OF CENTERLINE

\*ALL DISTANCES AND ELEVATIONS ARE IN FEET

\*\* ACCURACY IS CODED AS FOLLOWS

HORIZONTAL (FT)	VERTICAL (FT)
1 = 15	A = 2
2 = 40	B = 5
	C = 20

\*\*\* 15 FT ADDED TO NON INTERSTATE ROAD  
17 FT ADDED TO INTERSTATE ROAD  
23 FT ADDED TO RAILROAD



THE DISTANCES AND MAGNETIC BEARINGS COMPUTED FOR THE OBSTRUCTIONS IN THE RUNWAY PRIMARY AND APPROACH SURFACE ARE REFERENCED TO THE RUNWAY CENTERLINE PHYSICAL END.

RUNWAY 4    CONDITION C    LAT 31 8 41.996N LONG 81 23 58.348W GEODETIC AZIMUTH 216 6 22

ELEV	A OBJECT	LAT	LONG	M BRG	DIST	OUTCL	OFFCL
21	1A FENCE POST	31 9 26.818N	81 23 23.885W	36 16	5429	5424	249L
24	1A FENCE	31 9 26.318N	81 23 18.526W	40 30	5660	5657	157R
63	1A TREE	31 9 31.363N	81 23 20.280W	36 21	5985	5979	267L
34	1A ROAD (N)	31 9 31.267N	81 23 16.704W	38 49	6155	6155	10L
53	1A POLE	31 9 32.782N	81 23 19.088W	36 25	6162	6156	268L
86	1A TREE	31 9 30.354N	81 23 14.280W	40 53	6208	6204	214R
77	1A TREE	31 9 34.340N	81 23 14.660W	38 28	6510	6510	50L
69	1A TREE	31 9 33.053N	81 23 9.979W	41 58	6654	6645	356R
87	1A TREE	31 9 41.779N	81 23 8.474W	38 27	7434	7434	58L
101	1A TREE	31 9 52.785N	81 23 7.202W	34 39	8421	8398	625L
104	1A TREE	31 9 50.016N	81 23 2.184W	38 11	8429	8429	107L

RUNWAY 22    CONDITION C    LAT 31 9 25.700N LONG 81 23 21.282W GEODETIC AZIMUTH 36 6 41

ELEV	A OBJECT	LAT	LONG	M BRG	DIST	OUTCL	OFFCL
21	1A FENCE POST	31 9 26.818N	81 23 23.885W	299 20	253	42	249R
64	1A TREE	31 8 42.669N	81 24 1.405W	221 32	5573	5567	255R
64	1A TREE	31 8 41.802N	81 24 2.028W	221 24	5675	5670	247R
25	1A ROAD (N)	31 8 40.328N	81 23 59.712W	218 53	5672	5672	4L
60	1A TREE	31 8 40.217N	81 24 1.003W	219 43	5748	5747	80R
86	1A OL POLE	31 8 40.192N	81 24 2.661W	220 50	5837	5834	195R
84	1A OL ON TOWER	31 8 37.725N	81 23 59.211W	217 1	5862	5859	194L
74	1A TREE	31 8 36.377N	81 24 3.782W	219 21	6203	6203	47R
89	1A TREE	31 8 33.967N	81 24 0.250W	215 44	6228	6219	345L
91	1A TREE	31 8 30.575N	81 24 4.121W	216 34	6699	6694	275L
87	1A TREE	31 8 27.218N	81 24 14.732W	220 58	7516	7511	271R
87	1A TREE	31 8 20.561N	81 24 10.205W	215 40	7835	7823	444L

RUNWAY 15    CONDITION AV    LAT 31 9 21.360N LONG 81 23 20.860W GEODETIC AZIMUTH 334 6 57

ELEV	A OBJECT	LAT	LONG	M BRG	DIST	OUTCL	OFFCL
86	1A TREE	31 8 42.182N	81 23 0.755W	158 59	4327	4324	156R
71	1A TREE	31 8 40.376N	81 22 56.781W	155 59	4640	4639	75L

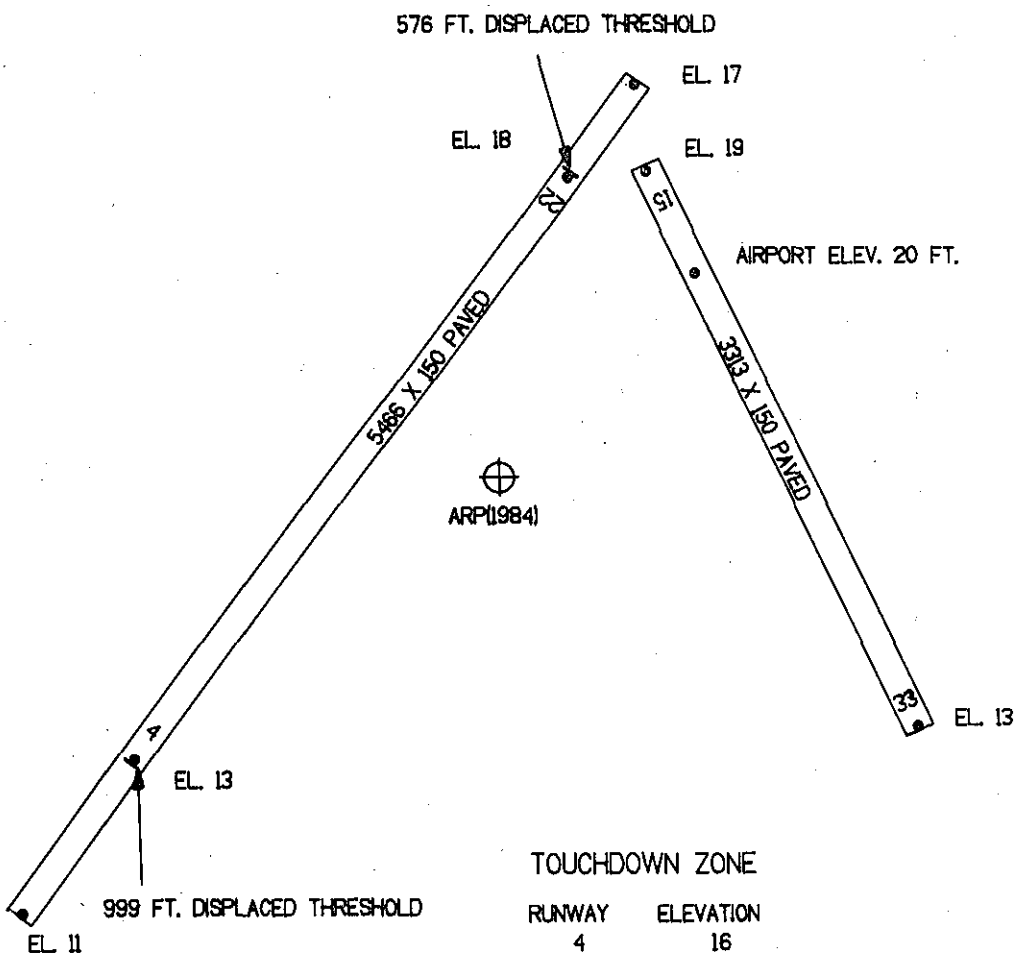
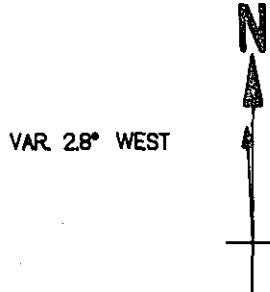
RUNWAY 33    CONDITION AV    LAT 31 8 51.859N LONG 81 23 4.218W GEODETIC AZIMUTH 154 7 6

ELEV	A OBJECT	LAT	LONG	M BRG	DIST	OUTCL	OFFCL
51	1A TREE	31 9 27.323N	81 23 25.297W	335 43	4024	4023	84L

ARP 1984

LAT 31 9 4.891N LONG 81 23 29.522W GEODETIC AZIMUTH 0 0 0

ELEV	A OBJECT	LAT	LONG	M BRG	DIST
76	1A TREE	31 9 11.188N	81 23 39.476W	309 8	1074
75	1A OL ON TOWER	31 9 6.275N	81 23 42.516W	279 52	1138
89	1A TREE	31 9 18.057N	81 23 33.019W	349 56	1365
67	1A TREE	31 9 2.074N	81 23 49.264W	263 23	1739
18	1A FENCE	31 8 58.539N	81 23 48.191W	251 13	1745
76	1A OL ON TOWER	31 9 22.936N	81 23 28.381W	5 55	1826
104	1A TREE	31 9 25.009N	81 23 29.541W	2 45	2033
77	1A TREE	31 9 25.316N	81 23 27.679W	7 14	2070
113	1A ANT OL CTL TWR	31 9 21.857N	81 23 14.432W	40 13	2158
98	1A OL ON AIR BCN	31 9 23.663N	81 23 17.364W	31 55	2171
77	1A TREE	31 8 48.016N	81 23 47.550W	225 23	2315
31	1A ROAD (N)	31 9 27.380N	81 23 24.260W	14 11	2318
69	1A TREE	31 8 53.212N	81 23 54.131W	243 55	2443
71	1A OL ON TOWER	31 8 51.851N	81 23 54.780W	241 50	2560
103	1A TREE	31 8 52.236N	81 23 56.473W	245 52	2822
69	1A TREE	31 8 52.270N	81 22 59.107W	118 33	2935
86	1A TREE	31 8 43.819N	81 23 2.319W	134 48	3181
82	1A TREE	31 8 45.454N	81 24 1.141W	237 15	3377
78	1A TREE	31 9 38.103N	81 23 18.935W	16 8	3480
100	1A TREE	31 8 36.266N	81 23 55.755W	221 3	3683
90	1A TREE	31 8 42.346N	81 24 3.888W	235 28	3756
104	1A CHURCH SPIRE	31 8 32.810N	81 23 54.209W	216 18	3887
85	1A TREE	31 9 43.969N	81 23 14.659W	20 55	4154
97	1A TREE	31 8 25.485N	81 24 3.461W	219 20	4955



TOUCHDOWN ZONE

RUNWAY	ELEVATION
4	16
22	18

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 (NOT TO SCALE)