OBSTRUCTION DATA SHEET

ODS 289
LA GUARDIA AIRPORT
NEW YORK, NEW YORK

DIGITIZED FROM

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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA No. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS and the OC depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in an FAR-77 approach or primary and listed with the associated runway (reference runway).

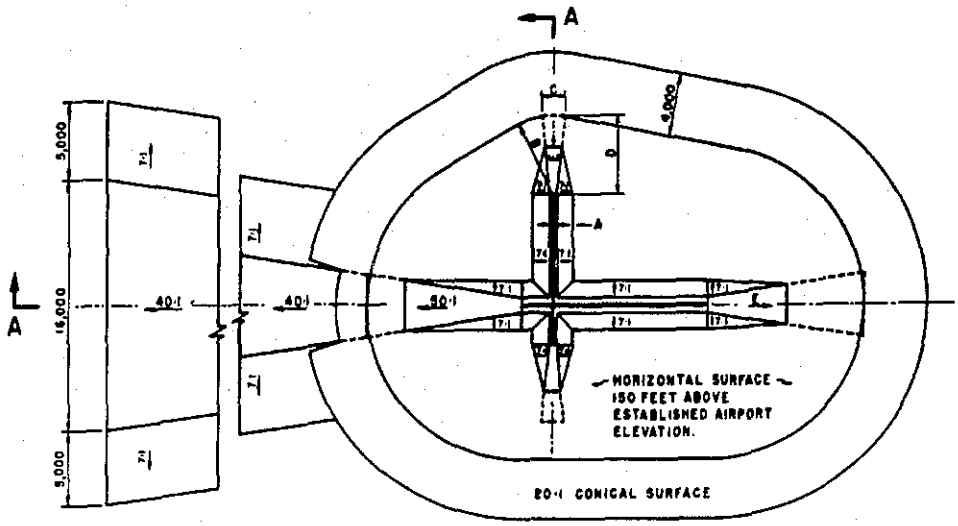
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

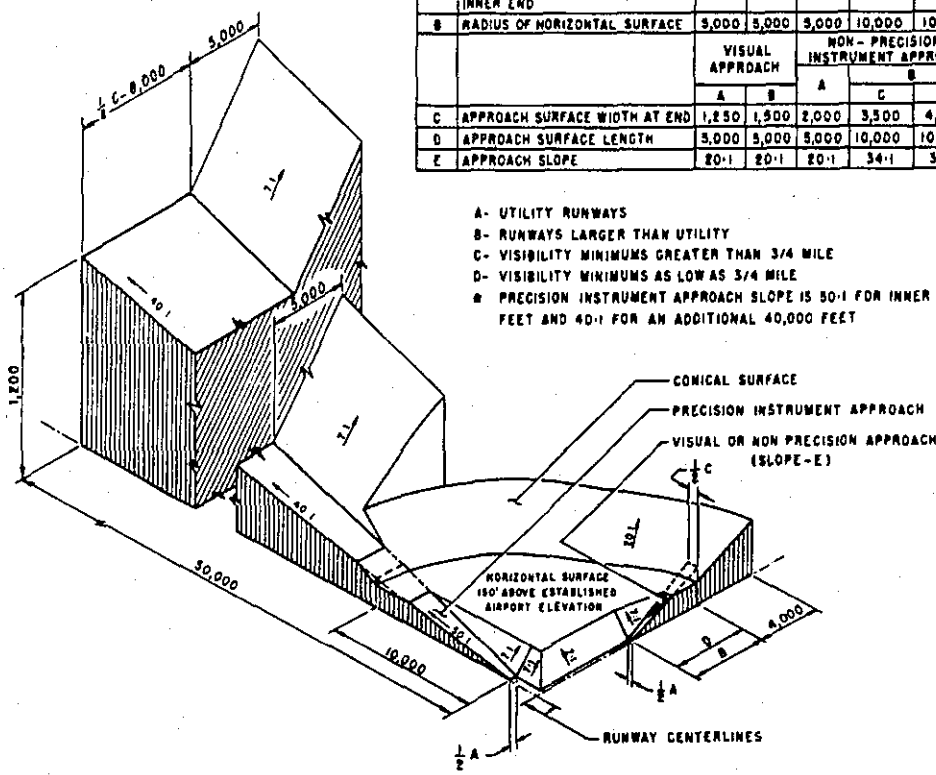
A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway- nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ..... Precision instrument runway
SUPLC .... Supplemental C underlying a B(V)

FAR-77 imaginary surface dimensions are defined on page 2 of this report.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B C	B D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B C	B D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X[1] X[2] XXXX/XXXX[3] XXXXXX.XXX[4] XXXXXXX.XXX[4] XXXXXXX[5] XXXX/XXXX[6] XXXXXX.XXX[7] XXXXXXX.XXX[7]

OBJECT	LAT	LONG	A[8]	ELEV[9]	AGL[10]	HAR[11]	HAT[11]	HAA[11]	DEND[12]	DTHR[12]	DCLN[12]	PNTR[13]
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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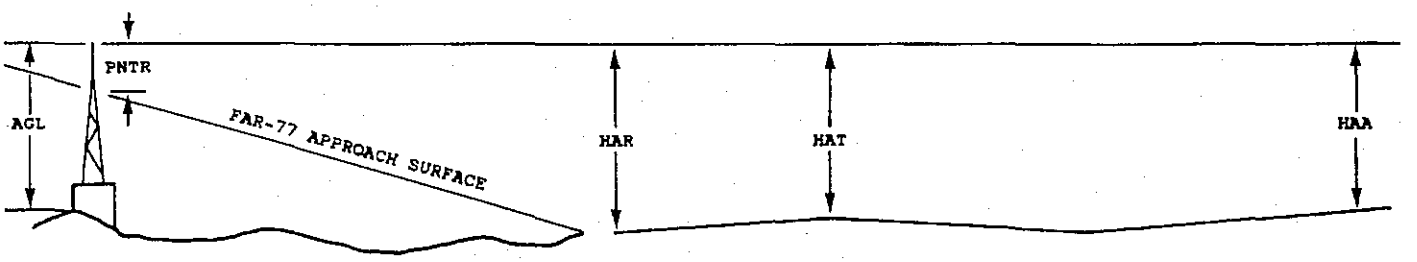
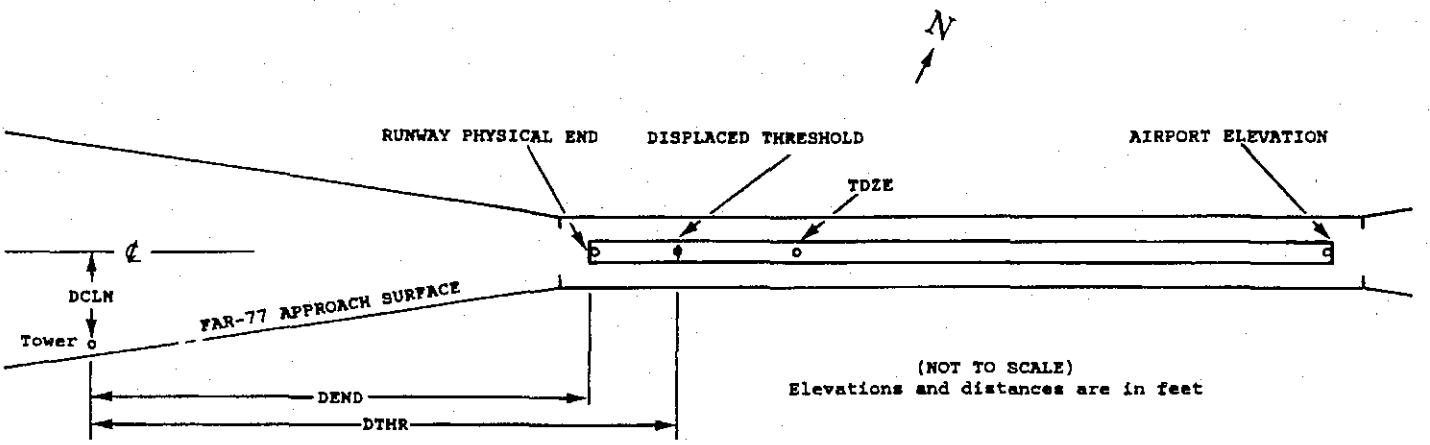




EXPLANATION OF FOOTNOTES

1 Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary areas of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

2 For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed).

3 Elevation at approach end of reference runway/touchdown zone elevation

4 Latitude and longitude at approach end of reference runway

5 Geodetic azimuth of reference runway reckoned from north

6 Elevation at reference runway displaced threshold/touchdown zone elevation

7 Latitude and longitude at reference runway displaced threshold

8 Accuracy codes:

Horizontal (Ft.)	Vertical (Ft.)
1 = 20	A = 2
2 = 40	B = 5
	C = 20

9 Elevation above mean sea level (MSL) at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

10 Height above ground level (AGL). AGL's are provided only for manmade objects <u>appearing on the OC</u> and equal to or greater than 200 feet AGL. AGL accuracy is 10 feet.

11 HAA - Height above airport
HAR - Height above approach end of reference runway
HAT - Height above reference runway touchdown zone elevation

12 DEND - Distance along reference runway centerline from point nearest to object (perpendicular) to approach end of runway
DTHR - Distance along reference runway centerline from point nearest to object (perpendicular) to displaced threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft

A negative value for DEND or DTHR indicates that object is in primary on roll-out side of zero distance point.

13 PNTR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

OC0289

AIRPORT ELEVATION 22

13 PIR 13/ 13 404656.267 -735242.671 1220911.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL DIKE	404619.09	-735125.25	1A	13		0	0	-9	-7045		14R	5
BUSH	404620.44	-735124.65	1A	16		3	3	-6	-7012		125L	8
DIKE	404622.57	-735125.72	1A	13		0	0	-9	-6827		264L	5
OL ON LOC	404627.03	-735134.79	1A	22		9	9	0	-5996		275L	14
ROD ON OL TMOM	404631.00	-735143.42	1A	23		10	10	1	-5220		261L	15
OL ON BLDG	404638.68	-735159.26	1A	18		5	5	-4	-3774		271L	10
OL ON LOC	404645.56	-735213.52	1A	21		8	8	-1	-2475		276L	13
OL ON DME	404645.69	-735213.95	1A	28		15	15	6	-2440		269L	20
ROD ON OL TMOM	404649.40	-735221.11	1A	20		7	7	-2	-1774		295L	12
OL ON BLDG	404653.44	-735230.24	1A	26		13	13	4	-962		267L	16
FENCE	404712.00	-735259.75	1A	26		13	13	4	1960		649L	-22
ROD ON BLDG	404817.16	-735456.61	1A	249		236	236	227	13078		1451L	-36
ANT ON OL BLDG	404805.96	-735608.10	1A	389	367	376	376	367	17132		2432R	3

NOTE: Vessels may penetrate this approach surface.
Refer to local authorities for maximum vessel height.

31 C 8/ 404619.452 -735125.646 3021002. 8/ 8 404620.374 -735127.575

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON BLDG	404653.44	-735230.24	1A	26		18	18	4	-6038	-5862	267R	16
ROD ON OL TMOM	404649.40	-735221.11	1A	20		12	12	-2	-5226	-5050	295R	12
OL ON DME	404645.69	-735213.95	1A	28		20	20	6	-4560	-4384	269R	20
OL ON LOC	404645.56	-735213.52	1A	21		13	13	-1	-4524	-4349	276R	13
OL ON BLDG	404638.68	-735159.26	1A	18		10	10	-4	-3226	-3050	271R	10
ROD ON OL TMOM	404631.00	-735143.42	1A	23		15	15	1	-1780	-1604	261R	15
OL ON LOC	404627.03	-735134.79	1A	22		14	14	0	-1004	-829	275R	14
DIKE	404622.57	-735125.72	1A	13		5	5	-9	-173	3	264R	5
BUSH	404620.44	-735124.65	1A	16		8	8	-6	12	187	125R	8
OL DIKE	404619.09	-735125.25	1A	13		5	5	-9	45	220	14L	5
OL ON BLDG	404611.31	-735057.94	1A	70		62	62	48	2243	2418	437R	2
OL ON BLDG	404608.91	-735051.25	1A	103		95	95	81	2808	2984	506R	19
FLGPL ON BLDG	404603.99	-735049.01	1A	104		96	96	82	3219	3394	176R	7
CLOCK TWR	404538.59	-735008.55	1A	186		178	178	164	7223	7398	342L	-28
OL ON BLDG	404528.81	-735001.38	1A	182		174	174	160	8218	8393	885L	-62
SPIRE	404537.54	-734951.21	1A	185		177	177	163	8410	8585	279R	-64
ANT ON OL BLDG	404528.87	-734932.64	1A	271	211	263	263	249	10086	10262	298R	-28

NOTE: Vessels may penetrate this approach surface.
Refer to local authorities for maximum vessel height.

OC0289

AIRPORT ELEVATION 22

4 PIR 22/ 22 404609.005 -735302.826 320756.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	404657.75	-735218.71	1A	37		15	15	15	-5983		250R	26
OL ON BLDG	404653.44	-735230.24	1A	26		4	4	4	-5142		269L	16
ROD ON OL TMOM	404630.64	-735252.12	1A	29		7	7	7	-2293		467L	14
ROD ON OL TMOM	404628.57	-735253.85	1A	29		7	7	7	-2044		468L	15
OL ON GS	404619.53	-735257.97	1A	43		21	21	21	-1101		250L	27
OL ON BLAST FENCE	404609.77	-735256.34	1A	33		11	11	11	-331		382R	13
LT POLE	404611.77	-735306.64	1A	33		11	11	11	-81		397L	12
FENCE	404607.77	-735300.22	1A	33		11	11	11	-1		236R	11
OL ON BLAST FENCE	404609.84	-735307.28	1A	32		10	10	10	111		335L	10
LT POLE	404609.33	-735308.42	1A	33		11	11	11	201		382L	11
OL ON LOC	404605.95	-735305.35	1A	28		6	6	6	366		0R	3
TREE	404604.01	-735301.32	1A	62		40	40	40	367		367R	37
ANT ON OL BLDG	404607.21	-735308.81	1A	42		20	20	20	399		293L	16
TREE	404602.14	-735303.03	1A	72		50	50	50	597		356R	42
TREE	404603.78	-735308.83	1A	52		30	30	30	694		110L	20
TREE	404555.17	-735310.98	1A	76		54	54	54	1519		213R	28
TREE	404555.23	-735316.32	1A	73		51	51	51	1733		138L	21
TREE	404557.88	-735322.04	1A	85		63	63	63	1740		653L	32
TREE	404552.27	-735314.65	1A	86		64	64	64	1918		130R	30
TREE	404553.98	-735322.50	1A	89		67	67	67	2093		473L	29
TREE	404551.38	-735322.89	1A	95		73	73	73	2332		358L	31
TREE	404547.98	-735315.97	1A	97		75	75	75	2340		275R	32
TREE	404551.72	-735328.79	1A	99		77	77	77	2544		761L	30
TREE	404543.40	-735311.68	1A	85		63	63	63	2556		801R	16
OL ON BLDG	404542.12	-735319.05	1A	102		80	80	80	2968		390R	25
TREE	404536.93	-735316.98	1A	85		63	63	63	3328		804R	1
FLGPL ON BLDG	404511.59	-735401.24	1A	166		144	144	144	7311		717L	2
ANT ON OL BLDG	404448.42	-735440.53	1A	272		250	250	250	10905		2031L	33
OL ON TWR	404437.82	-735426.82	1A	302	222	280	280	280	11253		567L	54
OL ON BLDG	404426.98	-735417.17	1A	254		232	232	232	11787		645R	-7

OC0289

AIRPORT ELEVATION 22

22 PIR 13/ 13 404707.571 -735214.429 2120828.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON BLAST FENCE	404609.84	-735307.28	1A	32		19	19	10	-7111		335R	10
FENCE	404607.77	-735300.22	1A	33		20	20	11	-6999		236L	11
LT POLE	404611.77	-735306.64	1A	33		20	20	11	-6919		397R	12
OL ON BLAST FENCE	404609.77	-735256.34	1A	33		20	20	11	-6669		382L	13
OL ON GS	404619.53	-735257.97	1A	43		30	30	21	-5899		250R	27
ROD ON OL TMOM	404628.57	-735253.85	1A	29		16	16	7	-4956		468R	15
ROD ON OL TMOM	404630.64	-735252.12	1A	29		16	16	7	-4707		467R	14
OL ON BLDG	404653.44	-735230.24	1A	26		13	13	4	-1858		269R	16
ROD ON OL GS	404657.75	-735218.71	1A	37		24	24	15	-1017		250L	26
ANT ON OL BLDG	404714.47	-735204.83	1A	27		14	14	5	984		254L	-1
ANT ON OL BLDG	404912.04	-735056.13	1A	296	244	283	283	274	13870		1605R	-8

NOTE: Vessels may penetrate this approach surface.
Refer to local authorities for maximum vessel height.

OC0289

AIRPORT ELEVATION 22

ARP 404638.075 -735221.393

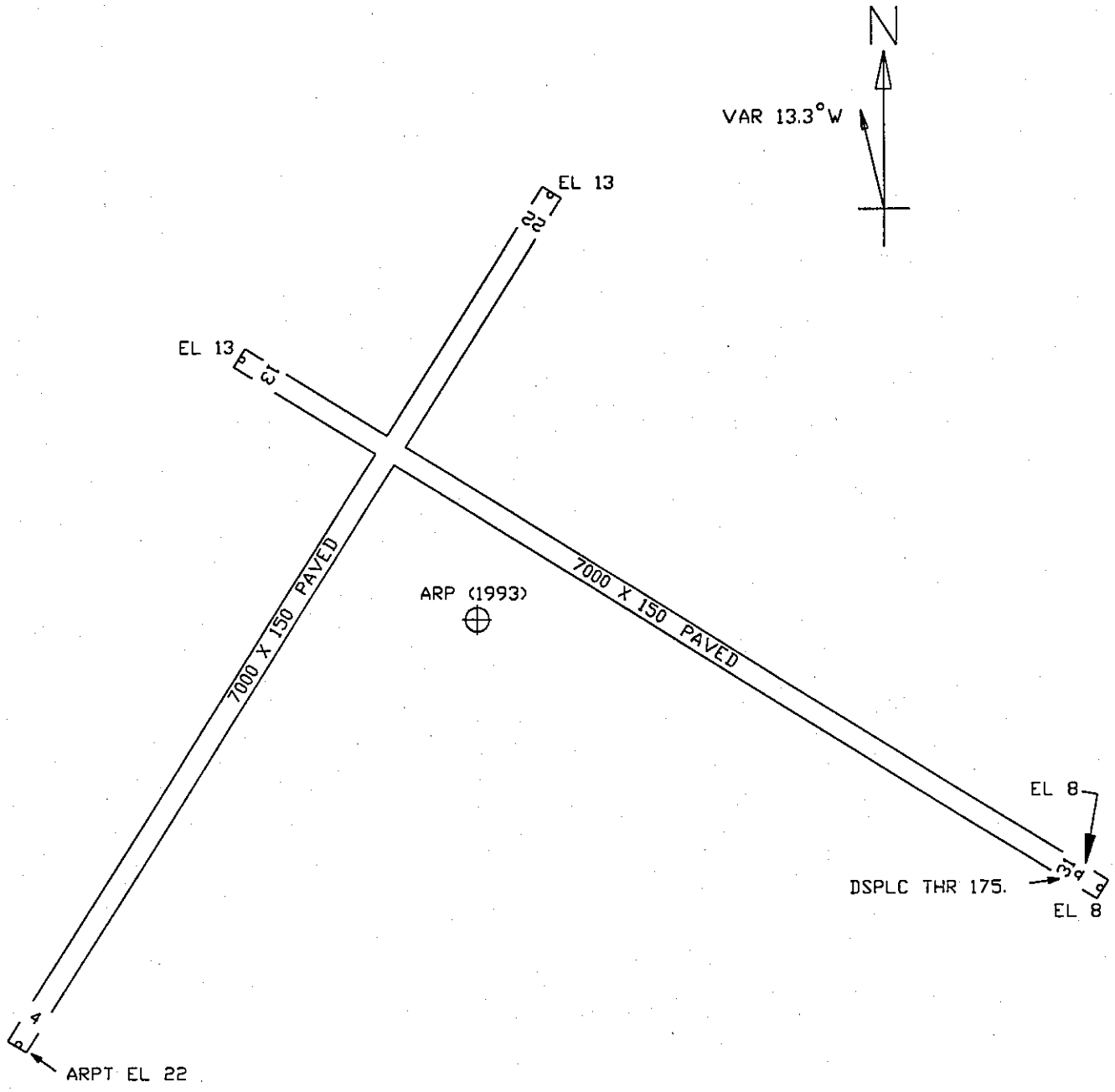
OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
LT POLE	404636.59	-735222.21	1A	57		35	21559	163
OL ON LT POLE	404635.65	-735229.72	1A	62		40	26222	686
ANT ON OL ATCT	404631.91	-735228.06	1A	161		139	23244	808
ANT ON OL LT POLE	404631.19	-735208.33	1A	62		40	13801	1223
ROD ON OL TMOM	404651.47	-735219.35	1A	27		5	1953	1365
OL ON HANGAR	404624.29	-735238.58	1A	86		64	23645	1922
OL ON LTD WSK	404649.77	-735244.83	1A	35		13	31635	2157
ANT ON OL TWR	404637.13	-735253.09	1A	71		49	28102	2440
OL ON VOR/DME	404701.37	-735206.96	1A	42		20	3830	2606
ANT ON OL BLDG	404609.03	-735203.74	1A	169		147	16829	3238
OL ON LT POLE	404616.45	-735147.17	1A	84		62	14301	3423
ANT ON OL BLDG	404609.01	-735246.33	1A	121		99	22625	3512
BUSH	404714.16	-735217.73	1A	33		11	1742	3663
LT POLE	404715.73	-735219.95	1A	70		48	1458	3812
OL ON LT POLE	404620.45	-735305.85	1A	64		42	25545	3857
LT POLE	404606.98	-735253.73	1A	54		32	23137	4011
APBN	404621.57	-735310.61	1A	85		63	25930	4138
OL ON LT POLE	404612.12	-735139.19	1A	82		60	14216	4177
TREE	404615.77	-735307.72	1A	65		43	25057	4219
OL ON LTD WSK	404614.49	-735129.09	1A	36		14	13358	4679
TREE	404611.54	-735129.36	1A	50		28	13708	4821
ANT ON BLDG	404725.64	-735227.84	1A	130		108	724	4840
TREE	404605.26	-735318.59	1A	83		61	24616	5513
TREE	404603.95	-735318.43	1A	80		58	24506	5584
TREE	404549.63	-735306.01	1A	96		74	22818	5985
TREE	404557.29	-735324.43	1A	88		66	24254	6368
TREE	404541.76	-735310.21	1A	102		80	22641	6826
OL ON BLDG	404552.93	-735332.56	1A	92		70	24328	7131
TREE	404713.07	-735049.63	1B	158		136	7638	7898
ROD ON CHY	404749.25	-735317.80	1A	209		187	34214	8409
OL TANK	404748.86	-735318.87	1A	187		165	34137	8419
TANK ON BLDG	404518.81	-735306.01	1A	174		152	21628	8726
ANT ON OL BLDG	404523.80	-735122.17	1A	199		177	16204	8790
ROD ON STACK	404651.12	-735028.09	1A	183		161	9440	8816
STACK	404606.19	-735020.83	1A	182		160	12228	9821
STACK	404618.46	-735429.67	1A	183		161	27156	10067
FLGPL ON OL BLDG	404524.05	-735052.70	1A	172		150	15057	10134
TRMSN TWR	404634.61	-735449.68	1A	177		155	28133	11414
OL STACK	404715.56	-735444.59	1A	313	297	291	30218	11651
ANT ON OL BLDG	404442.16	-735308.99	1A	261		239	21038	12290
ROD ON STACK	404434.89	-735218.94	1A	219		197	19226	12468

OC0289 Continued from previous page

AIRPORT ELEVATION 22

ARP 404638.075 -735221.393

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
DOME ON BLDG	404427.29	-735227.64	1A	212		190	19522	13245
BLDG	404443.40	-735345.23	1A	187		165	22222	13278
BRDG	404657.26	-735518.75	1A	310	310	288	29124	13782
OL ON TWR	404438.30	-735041.88	1A	257	232	235	16100	14338
OL ON BRDG	404641.21	-735530.96	1A	350	350	328	28433	14587
OL ON BRDG	404756.98	-734940.89	1A	384	384	362	7023	14704
OL ON BRDG	404817.43	-734954.09	1A	384	384	362	6141	15149
TANK ON BLDG	404556.91	-734911.73	1A	231		209	11912	15175
FLGPL ON BLDG	404859.76	-735327.09	1A	250		228	35353	15203
ANT ON OL BLDG	404513.19	-734924.99	1A	345	280	323	13536	16064



TOUCHDOWN ZONE	RUNWAY ELEVATION
13	13
31	8
4	22
22	13

LA GUARDIA AIRPORT

NEW YORK, NEW YORK

(NOT TO SCALE)

(ELEVATIONS AND DISTANCES IN FEET)