

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34R Takeoff)**

(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
Easting	Northing					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
332571.925	6242010.054	346° 47' 03"	3.999 (13.12)	2438.0	2498.0	4.984 (16.352)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport				
					MGA94														
					metres	(feet)	metres	metres		metres	metres	%							
26	38	418	332545.7	6242699.3	24.4	79.9	13.1	11.3	TREE	3175	132.0 East	2.86%	Tree	Mar 22	Y				
		424	332391.8	6242479.4	17.4	56.9	11.0	6.4	SPIRE	2996	68.1 West	2.48%	Flood light	Nov 21	N				
		590	332576.4	6242380.5	12.3	40.2	9.3	3.0	SPIRE	2858	89.1 East	2.02%	Flood light atop advertising sign	Nov 21	Y				
		658	332352.5	6242712.0	15.3	50.0	13.8	1.5	SPIRE	3232	53.1 West	1.40%	Light Pole	Nov 21	Y				
		662	332347.5	6242685.8	14.9	48.8	13.5	1.4	SPIRE	3207	64.0 West	1.40%	Light Pole	Nov 21	Y				
		664	332292.9	6242724.3	15.0	49.2	14.1	0.9	SPIRE	3257	108.4 West	1.32%	Light Pole	Nov 21	Y				
		668	332269.3	6242733.8	15.5	50.8	14.3	1.2	SPIRE	3272	129.1 West	1.36%	Light Pole	Nov 21	Y				
		766	332074.8	6246713.2	68.8	225.6	61.3	7.5	ANTEN	7190	591.2 East	1.36%	Mobile Phone Tower atop building (lit)	Dec 21	N				
		1145	332382.2	6242305.9	11.5	37.7	9.0	2.5	SPIRE	2829	117.0 West	1.96%	Perimeter Fence Floodlight	Nov 21	Y				
		1146	332404.1	6242317.4	11.7	38.3	9.0	2.6	SPIRE	2836	93.1 West	1.98%	Perimeter Fence Floodlight	Nov 21	Y				
		1147	332420.1	6242337.6	11.7	38.3	9.2	2.5	SPIRE	2852	73.0 West	1.89%	Perimeter Fence Floodlight	Nov 21	Y				
		1148	332438.0	6242353.9	11.8	38.6	9.4	2.4	SPIRE	2863	51.8 West	1.85%	Perimeter Fence Floodlight	Nov 21	Y				
		1149	332462.6	6242361.1	11.7	38.4	9.4	2.3	SPIRE	2865	26.2 West	1.83%	Perimeter Fence Floodlight	Nov 21	Y				
		1150	332488.2	6242356.9	11.2	36.8	9.3	1.9	SPIRE	2855	2.3 West	1.74%	Perimeter Fence Floodlight	Nov 21	Y				
		1151	332517.2	6242357.8	10.6	34.7	9.2	1.4	SPIRE	2849	26.2 East	1.59%	Perimeter Fence Floodlight	Nov 21	Y				
		1152	332515.9	6242328.6	10.5	34.5	8.9	1.7	SPIRE	2821	18.3 East	1.72%	Perimeter Fence Floodlight	Nov 21	Y				
	43	1189	332341.5	6243956.1	48.8	160.0	28.4	20.4	BLDG	4445	220.6 East	2.25%	SE Corner Stamford Hotel	Mar 22	N				
		1239	332559.3	6242695.7	18.5	60.8	13.0	5.5	BLDG	3168	144.5 East	2.02%	CHIMNEY	Nov 21	Y				
27	39	1241	332580.9	6242713.5	22.7	74.4	13.2	9.5	TREE	3181	169.5 East	2.59%	TREE	Mar 22	Y				
		1249	332139.0	6243472.9	25.3	83.2	23.3	2.1	SPIRE	4021	87.0 West	1.34%	FLOOD LIGHT	Dec 21	Y				
		1250	332164.6	6243468.6	25.4	83.3	23.1	2.2	SPIRE	4011	63.1 West	1.35%	FLOOD LIGHT	Dec 21	Y				
		1251	332189.6	6243465.1	25.5	83.7	23.0	2.5	SPIRE	4002	39.5 West	1.36%	FLOOD LIGHT	Dec 21	Y				
		1374	332481.5	6242794.3	16.3	53.6	14.4	2.0	SPIRE	3282	91.3 East	1.45%	Flood Light	Dec 21	Y				
		1375	332531.4	6242806.1	16.5	54.0	14.4	2.1	SPIRE	3282	142.5 East	1.46%	Flood Light	Nov 21	Y				
18	29	1381	332580.7	6242476.5	17.6	57.7	10.4	7.2	SPIRE	2950	115.2 East	2.79%	Flood Light	Nov 21	N				
28	40	1503	332045.1	6243478.1	35.2	115.4	23.6	11.6	SPIRE	4048	177.2 West	1.95%	Southern edge of steel light frame support atop floodlight pole	Mar 22	Y				
		1516	331896.8	6243608.9	35.2	115.4	25.5	9.7	SPIRE	4209	291.7 West	1.77%	Flood Light	Feb 22	Y				
		1554	332474.1	6242025.0	6.2	20.5	5.4	0.8	BLDG	2535	91.8 West	3.43%	Demountable building	Nov 21	Y				
		1778	332492.6	6243566.1	30.7	100.8	23.4	7.3	SPIRE	4031	278.5 East	1.68%	Lightning rod atop floodlight pole	Feb 22	Y				
		1809	332380.3	6244618.7	48.0	157.5	36.0	12.0	BLDG	5081	409.9 East	1.67%	Lightening conductor atop building	Dec 21	N				
		1810	332315.3	6244711.6	42.0	137.8	37.2	4.8	BLDG	5187	367.8 East	1.38%	BLDG	Dec 21	N				
		1811	332243.3	6244738.1	43.5	142.7	37.8	5.7	BLDG	5229	303.8 East	1.41%	BLDG	Dec 21	N				
		1821	332039.4	6243407.0	24.7	81.0	22.8	1.9	SPIRE	3980	199.1 West	1.33%	Flood Light pole	Dec 21	Y				
		1822	332373.3	6243564.1	30.7	100.8	23.7	7.0	SPIRE	4056	162.0 East	1.65%	Flood Light	Dec 21	Y				
		1823	332412.4	6243568.2	30.6	100.5	23.6	7.0	SPIRE	4051	200.9 East	1.65%	Flood Light	Dec 21	Y				
		2326	332618.4	6242318.7	10.7	35.1	8.5	2.2	SPIRE	2788	115.8 East	1.97%	Street Light	Nov 21	N				
		2328	332625.7	6242300.9	10.3	33.7	8.2	2.1	SPIRE	2769	118.8 East	1.96%	Street Light	Nov 21	N				
	27	2418	332456.5	6242440.3	15.6	51.1	10.3	5.3	TREE	2943	14.0 West	2.38%	Sheoak	Nov 21	Y				
	31	2420	332511.1	6242474.7	17.9	58.8	10.6	7.3	TREE	2964	47.0 East	2.77%	Tallest of a grove of trees	Nov 21	N				
	32	2422	332486.3	6242469.7	18.3	60.1	10.6	7.7	TREE	2965	21.8 East	2.85%	Tallest of a grove of trees	Mar 22	N				
23		2610	332573.1	6242562.0	20.7	68.0	11.4	9.3	TREE	3035	127.4 East	2.93%	Tree	Mar 22	Y				
		2624	332315.0	6242527.2	20.3	66.7	11.7	8.6	TREE	3060	131.9 West	2.73%	Tree	Nov 21	Y				
		2626	332477.7	6242515.8	15.8	51.9	11.2	4.7	SPIRE	3012	23.9 East	2.11%	Street light	Nov 21	Y				
		2628	332430.6	6242492.8	15.5	50.9	11.0	4.5	SPIRE	3000	27.2 West	2.09%	Street light	Nov 21	N				
		2630	332588.4	6242541.2	17.4	57.2	11.1	6.3	SPIRE	3011	137.4 East	2.42%	Street light	Nov 21	N				
24	36	2634	332549.4	6242581.8	21.4	70.3	11.7	9.7	TREE	3060	108.8 East	2.93%	Tree	Mar 22	Y				
		2638	332303.2	6242560.9	15.6	51.2	12.2	3.4	SPIRE	3096	135.6 West	1.78%	Flood light	Nov 21	Y				
		2640	332293.5	6242598.0	20.1	65.9	12.6	7.5	TREE	3134	136.6 West	2.38%	Tree	Nov 21	Y				
		2642	332284.7	6242624.2	17.2	56.6	12.9	4.3	TREE	3162	139.2 West	1.85%	Tree	Nov 21	Y				
		2644	332254.0	6242634.9	16.1	52.9	13.2	3.0	SPIRE	3179	166.7 West	1.64%	Flood light	Nov 21	Y				
		2648	332409.0	6242759.5	17.0	55.8	14.2	2.8	SPIRE	3265	12.7 East	1.57%	Flood light	Nov 21	Y				
		2650	332399.6	6242742.2	15.5	50.9	14.0	1.5	SPIRE	3250	0.4 West	1.40%	Light pole	Nov 21	Y				

2021 RWY 34R Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
		2652	332528.5	6242780.2	17.2	56.4	14.1	3.1	SPIRE	3258	133.8 East	1.61%	Flood light	Nov 21	Y
		2654	332270.1	6242760.3	15.6	51.0	14.6	1.0	SPIRE	3297	122.3 West	1.32%	Flood light	Nov 21	Y
		2656	332323.5	6242807.6	16.0	52.5	15.0	1.0	SPIRE	3331	59.5 West	1.32%	Flood light	Nov 21	Y
		2658	332460.9	6242779.6	18.3	60.0	14.3	4.0	TREE	3273	67.9 East	1.72%	Tree	Nov 21	Y
		2660	332566.6	6242858.2	16.0	52.5	14.9	1.1	SPIRE	3325	188.7 East	1.33%	Flood light	Dec 21	Y
		2662	332432.0	6243584.2	28.0	91.9	23.8	4.2	TREE	4062	223.7 East	1.47%	Tree	Dec 21	Y
		2666	332180.0	6243644.0	35.3	115.9	25.1	10.2	BLDG	4178	8.0 West	1.81%	SE corner eastern most MSCP T2	Feb 22	Y
		2676	332091.7	6243658.0	27.6	90.4	25.6	2.0	BLDG	4212	90.7 West	1.32%	SE corner MSCP T2	Dec 21	Y
		2678	332079.5	6243660.4	32.8	107.6	25.6	7.2	SPIRE	4217	102.1 West	1.62%	Flood light	Dec 21	Y
		2680	332002.2	6243672.4	32.8	107.6	26.0	6.8	SPIRE	4247	174.6 West	1.59%	Flood light	Dec 21	Y
		2682	332088.9	6243691.0	32.0	105.0	25.9	6.1	SPIRE	4245	85.9 West	1.55%	Flood light	Dec 21	Y
		2684	332085.6	6243689.1	28.7	94.2	25.9	2.8	BLDG	4244	89.6 West	1.36%	Building atop MSCP T2	Dec 21	Y
		2686	332047.7	6243676.1	28.4	93.2	25.9	2.5	BLDG	4240	129.4 West	1.34%	Building atop MSCP T2	Dec 21	Y
		2688	332342.8	6243711.9	27.0	88.6	25.5	1.5	TREE	4207	166.0 East	1.29%	Tree	Feb 22	Y
		2692	331902.8	6244041.8	42.8	140.3	30.6	12.2	SPIRE	4629	186.9 West	1.77%	Flood light	Dec 21	Y
		2694	331916.0	6244134.5	43.3	142.1	31.6	11.7	SPIRE	4716	152.8 West	1.73%	Flood light	Dec 21	Y
31	44	2816	332340.7	6243957.3	51.0	167.3	28.4	22.6	MOVG	4447	220.1 East	2.36%	BMU Window Washing Unit	Mar 22	N
32	45	2818	332312.3	6243970.4	50.9	167.0	28.6	22.3	BLDG	4466	195.4 East	2.33%	Stamford Hotel Plant Room	Mar 22	N
	21	3092	332549.2	6242429.4	14.3	46.8	9.9	4.3	TREE	2911	73.7 East	2.24%	Tree	Nov 21	Y
		3096	332480.6	6242784.9	18.5	60.8	14.3	4.2	TREE	3273	88.2 East	1.75%	Tree	Nov 21	Y
		3099	332476.6	6242881.8	15.9	52.2	15.4	0.5	SPIRE	3368	106.5 East	1.26%	light pole long term carpark	Dec 21	Y
		3482	332533.1	6242415.8	13.8	45.1	9.8	3.9	TREE	2902	55.0 East	2.17%	Tree	Nov 21	Y
		3483	332526.2	6242423.5	15.0	49.4	9.9	5.1	TREE	2911	50.0 East	2.44%	Tallest of a grove of trees	Nov 21	Y
	22	3484	332543.3	6242429.5	14.3	46.9	10.0	4.3	TREE	2913	68.0 East	2.24%	Tree	Nov 21	Y
		3485	332552.3	6242451.8	15.3	50.3	10.2	5.1	TREE	2933	81.9 East	2.38%	Tree	Nov 21	N
	28	3486	332529.1	6242462.1	17.3	56.8	10.4	6.9	TREE	2948	61.6 East	2.74%	Tree	Nov 21	N
		3506	332604.3	6242251.2	9.8	32.3	7.7	2.1	TREE	2725	86.7 East	2.13%	Tree	Nov 21	Y
11	12	3512	332618.5	6242272.0	11.2	36.7	7.9	3.3	TREE	2742	105.2 East	2.53%	Tree	Nov 21	Y
13	14	3514	332613.5	6242306.7	11.7	38.3	8.3	3.3	TREE	2777	108.3 East	2.39%	Tree	Nov 21	Y
		3590	332275.0	6244870.4	52.0	170.6	39.2	12.8	BLDG	5350	364.9 East	1.65%	PROPERTY DEVELOPMENT	Dec 21	N
		3925	332517.6	6242614.6	20.4	66.9	12.2	8.2	TREE	3099	85.4 East	2.56%	Tree	Nov 21	Y
		3927	332525.5	6242529.3	17.7	58.2	11.2	6.6	TREE	3014	73.5 East	2.47%	Tree	Nov 21	Y
	3	4002	332553.4	6242025.3	6.7	21.9	5.2	1.5	SPIRE	2517	14.5 West	8.85%	HAL	Nov 21	Y
	2	4012	332568.3	6242028.8	6.7	21.9	5.2	1.5	SPIRE	2517	0.7 East	8.85%	HAL	Nov 21	Y
1	1	4022	332583.1	6242032.2	6.7	21.9	5.2	1.5	SPIRE	2517	15.9 East	8.86%	HAL	Mar 22	Y
2	4	4026	332561.3	6242061.5	7.2	23.6	5.6	1.6	SPIRE	2550	1.4 East	4.22%	HAL	Mar 22	Y
3	5	4030	332553.8	6242093.8	7.8	25.5	6.0	1.8	SPIRE	2584	1.5 East	3.26%	HAL	Mar 22	Y
4	6	4032	332546.2	6242126.1	8.3	27.4	6.4	1.9	SPIRE	2617	1.4 East	2.82%	HAL	Nov 21	Y
6	8	4036	332537.1	6242158.0	8.9	29.1	6.8	2.0	SPIRE	2650	0.1 West	2.55%	HAL	Nov 21	Y
		4040	332512.0	6242186.2	9.4	30.9	7.2	2.2	SPIRE	2683	18.0 West	2.39%	HAL	Nov 21	Y
	9	4054	332530.9	6242190.6	9.4	30.9	7.2	2.2	SPIRE	2683	1.4 East	2.39%	HAL	Nov 21	Y
7	10	4066	332548.5	6242194.8	9.4	31.0	7.2	2.2	SPIRE	2683	19.4 East	2.41%	HAL	Nov 21	Y
		4069	332508.1	6242168.6	7.7	25.2	7.0	0.7	SPIRE	2667	25.9 West	1.59%	Obstruction Light (Lit 1/1)	Nov 21	Y
10	11	4070	332523.5	6242222.7	10.0	32.7	7.6	2.4	SPIRE	2716	1.5 East	2.28%	HAL	Nov 21	Y
		4071	332558.7	6242180.5	7.7	25.2	7.0	0.7	SPIRE	2667	26.1 East	1.59%	Obstruction Light (Lit 1/1)	Nov 21	Y
12	13	4074	332516.0	6242254.4	10.5	34.5	8.0	2.5	SPIRE	2749	1.5 East	2.21%	HAL	Nov 21	Y
14	15	4078	332508.5	6242286.3	11.1	36.3	8.4	2.7	SPIRE	2781	1.4 East	2.14%	HAL	Nov 21	Y
16	17	4082	332501.1	6242318.1	11.6	38.0	8.8	2.8	SPIRE	2814	1.4 East	2.09%	HAL	Nov 21	Y
	18	4084	332471.0	6242344.5	12.2	39.9	9.2	3.0	SPIRE	2847	21.8 West	2.06%	HAL	Nov 21	Y
		4100	332493.6	6242350.0	12.2	39.9	9.2	3.0	SPIRE	2847	1.4 East	2.06%	HAL	Nov 21	Y
		4114	332514.7	6242354.9	12.2	39.9	9.2	3.0	SPIRE	2847	23.2 East	2.06%	HAL	Nov 21	Y
		4118	332485.2	6242382.7	12.7	41.6	9.6	3.1	SPIRE	2881	0.7 East	2.01%	HAL	Nov 21	Y
		4124	332477.3	6242415.6	13.3	43.5	10.0	3.3	SPIRE	2914	0.6 East	1.98%	HAL	Nov 21	Y

2021 RWY 34R Type A
All Obstacles Penetrating the 1.2% Type A Surface

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					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
		4129	331996.2	6243892.9	40.8	133.8	28.6	12.2	BLDG	4463	130.0 West	1.82%	Railing on Roof	Dec 21	Y
		4130	332469.7	6242448.4	13.8	45.3	10.4	3.4	SPIRE	2948	0.7 East	1.96%	HAL	Nov 21	Y
		4136	332461.9	6242481.5	14.4	47.3	10.8	3.6	SPIRE	2982	0.7 East	1.95%	HAL	Nov 21	N
		4140	332426.6	6242511.0	14.4	47.3	11.2	3.2	SPIRE	3019	27.0 West	1.81%	HAL	Nov 21	N
		4149	332449.2	6242158.2	8.1	26.7	7.1	1.1	ANTEN	2670	85.6 West	1.83%	Aerial atop shed	Nov 21	Y
		4158	332453.5	6242517.2	14.4	47.3	11.2	3.2	SPIRE	3019	0.7 East	1.81%	HAL	Nov 21	Y
		4176	332480.4	6242523.6	14.4	47.3	11.2	3.2	SPIRE	3019	28.3 East	1.81%	HAL	Nov 21	Y
		4180	332447.2	6242544.5	14.4	47.2	11.6	2.8	SPIRE	3047	0.7 East	1.71%	HAL	Nov 21	Y
		4186	332440.7	6242571.8	14.4	47.1	11.9	2.5	SPIRE	3075	0.7 East	1.63%	HAL	Nov 21	Y
		4192	332434.4	6242599.0	14.4	47.2	12.2	2.1	SPIRE	3103	0.7 East	1.55%	HAL	Nov 21	Y
		4198	332427.9	6242626.1	14.4	47.1	12.6	1.8	SPIRE	3131	0.7 East	1.48%	HAL	Nov 21	Y
		4204	332421.6	6242653.5	14.4	47.2	12.9	1.5	SPIRE	3159	0.7 East	1.42%	HAL	Nov 21	Y
		4205	332481.0	6242365.7	10.1	33.0	9.4	0.7	MOVG	2865	7.2 West	1.39%	Gate 16 Access Road Crown (plus 4.6m)	Dec 21	Y
		4208	331824.5	6243772.9	39.7	130.2	27.6	12.1	SPIRE	4385	324.6 West	1.84%	Obstruction Light (Lit 1/1)	Feb 22	Y
		4210	331823.7	6243776.5	39.8	130.5	27.7	12.1	SPIRE	4389	324.6 West	1.84%	Obstruction Light (Lit 1/1)	Feb 22	Y
		4212	331864.8	6243686.5	40.7	133.4	26.5	14.2	SPIRE	4292	305.1 West	1.99%	Obstruction Light (Lit 1/1)	Feb 22	Y
30	42	4214	331863.1	6243683.5	40.9	134.2	26.5	14.4	SPIRE	4289	307.5 West	2.01%	Obstruction Light (Lit 1/1)	Mar 22	Y
		4301	332568.7	6242432.9	16.4	53.6	9.9	6.4	SPIRE	2910	93.5 East	2.76%	Light Pole	Nov 21	N
	19	4303	332580.8	6242397.1	14.4	47.3	9.5	4.9	SPIRE	2873	97.1 East	2.52%	Light Pole	Nov 21	N
17	20	4333	332608.2	6242407.0	16.0	52.4	9.5	6.5	SPIRE	2876	126.1 East	2.91%	Light Pole	Nov 21	N
		4335	332608.8	6242433.2	13.0	42.7	9.8	3.2	SPIRE	2902	132.6 East	1.99%	Light Pole	Nov 21	N
		4337	332593.2	6242441.2	16.2	53.2	10.0	6.3	SPIRE	2913	119.3 East	2.71%	Light Pole	Nov 21	N
		4339	332524.5	6242492.8	19.4	63.8	10.8	8.7	SPIRE	2979	64.2 East	3.01%	Light Pole	Mar 22	N
		4341	332481.6	6242480.7	18.3	60.1	10.7	7.6	SPIRE	2977	19.6 East	2.78%	Light Pole	Nov 21	N
		4343	332440.5	6242469.2	17.0	55.8	10.7	6.3	SPIRE	2975	22.9 West	2.52%	Light Pole	Nov 21	N
		4345	332399.8	6242457.7	15.8	52.0	10.7	5.2	SPIRE	2973	65.3 West	2.29%	Light Pole	Nov 21	N
		4347	332548.1	6242501.2	19.5	64.0	10.8	8.7	SPIRE	2982	89.0 East	3.00%	Light Pole	Mar 22	N
22	35	4349	332575.4	6242508.2	19.8	65.0	10.8	9.0	SPIRE	2982	117.3 East	3.06%	Light Pole	Mar 22	N
21	34	4351	332603.0	6242507.2	19.4	63.7	10.7	8.7	SPIRE	2975	144.0 East	3.03%	Light Pole	Mar 22	N
		4361	331875.0	6243912.0	39.7	130.2	29.1	10.6	BLDG	4509	243.7 West	1.73%	Building	Feb 22	Y
		4365	332043.2	6244409.8	56.3	184.6	34.5	21.8	ANTEN	4955	33.9 East	2.09%	Antenna (Lit 0/2)	Mar 22	Y
		4393	332443.8	6242306.1	8.9	29.1	8.8	0.1	TERRN	2816	57.0 West	1.22%	Top of Bank	Nov 21	Y
		4395	332427.3	6242299.2	8.9	29.3	8.8	0.2	TERRN	2813	74.7 West	1.26%	Top of Bank	Nov 21	Y
		4397	332414.9	6242293.0	8.8	28.9	8.7	0.1	TERRN	2809	88.2 West	1.22%	Top of Bank	Nov 21	Y
		4405	332440.7	6242309.8	9.9	32.5	8.8	1.1	SPIRE	2820	59.2 West	1.53%	Pole	Nov 21	Y
		4407	332419.8	6242453.9	11.3	37.1	10.6	0.7	MOVG	2965	46.6 West	1.35%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4409	332442.9	6242460.5	12.0	39.4	10.6	1.4	MOVG	2966	22.7 West	1.50%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4411	332466.3	6242466.9	12.7	41.7	10.6	2.1	MOVG	2967	1.6 East	1.65%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4413	332489.8	6242473.8	13.5	44.2	10.6	2.8	MOVG	2968	26.1 East	1.81%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4415	332514.0	6242480.7	14.2	46.6	10.6	3.6	MOVG	2969	51.2 East	1.96%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4417	332538.4	6242487.2	14.8	48.7	10.6	4.2	MOVG	2970	76.5 East	2.09%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4419	332560.6	6242494.1	15.1	49.5	10.7	4.4	MOVG	2972	99.6 East	2.14%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4421	332585.2	6242501.2	15.1	49.4	10.7	4.4	MOVG	2973	125.2 East	2.12%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4423	332604.6	6242505.8	14.8	48.7	10.7	4.1	MOVG	2973	145.2 East	2.07%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4440	332530.7	6242185.2	8.3	27.2	7.1	1.2	SPIRE	2678	0.1 West	1.85%	RWY 16L Localiser Far Field Centreline Monitor Antenna	Nov 21	Y
		4441	332468.8	6242170.6	8.5	27.9	7.1	1.4	SPIRE	2678	63.7 West	1.96%	RWY 16L Localiser Far Field Displacement Sensitivity Monitor Antenna	Nov 21	Y
		4446	332560.7	6242448.8	15.8	51.8	10.1	5.6	TREE	2928	89.4 East	2.51%	Tree	Nov 21	N
		4484	332602.6	6242436.2	14.2	46.7	9.9	4.3	TREE	2906	127.3 East	2.27%	Tree	Nov 21	N
		4485	332607.4	6242453.1	16.3	53.6	10.1	6.3	TREE	2921	135.8 East	2.68%	Tree	Nov 21	N
19	30	4486	332605.2	6242496.2	19.2	63.1	10.6	8.7	TREE	2964	143.5 East	3.06%	Tree	Mar 22	N
		4487	332547.0	6242478.3	17.6	57.6	10.5	7.0	TREE	2960	82.8 East	2.73%	Tree	Nov 21	N
29	41	4492	332173.3	6243646.9	38.7	127.1	25.2	13.5	BLDG	4183	13.9 West	2.00%	Multi Storey Carpark	Mar 22	Y
		4493	332450.4	6243827.9	40.0	131.3	26.6	13.5	BLDG	4295	297.3 East	1.95%	Mantra Hotel	Feb 22	Y

2021 RWY 34R Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport				
					MGA94														
					metres	(feet)	metres	metres		metres	metres	%							
20	33	4509	332588.3	6242499.4	19.5	64.1	10.7	8.9	TREE	2971	127.8 East	3.08%	Tree	Mar 22	N				
		4595	332270.0	6245143.0	51.2	167.9	42.4	8.8	BLDG	5617	422.3 East	1.48%	Apartment		N				
		4737	332343.1	6242464.5	15.1	49.4	10.9	4.1	SPIRE	2993	118.9 West	2.04%	Floodlight	Nov 21	N				
		4741	331854.1	6248446.4	82.6	271.0	82.1	0.5	BLDG	8928	772.6 East	1.21%	Brick Chimney	Dec 21	N				
		4773	331709.8	6248055.9	82.0	269.0	78.0	4.0	ANTEN	8581	542.9 East	1.27%	Church Crux	Dec 21	N				
33	46	4781	332274.4	6244017.0	52.1	170.9	29.2	22.8	BLDG	4520	169.2 East	2.33%	BUILDING (Lit) Airport Central	Mar 22	N				
		4807	331887.5	6246559.1	66.5	218.2	60.0	6.5	BLDG	7083	373.7 East	1.34%	Chimney	Dec 21	N				
		4832	332380.9	6244481.0	51.0	167.3	34.4	16.6	BLDG	4947	378.9 East	1.88%	Building	Nov 21	N				
		4833	332337.0	6244908.7	50.8	166.8	39.5	11.3	BLDG	5374	434.0 East	1.59%	Building	Dec 21	N				
5	7	5409	332641.1	6242166.7	9.8	32.2	6.6	3.2	TREE	2635	103.2 East	3.54%	Tree	Mar 22	Y				
15	16	5412	332600.6	6242334.3	11.9	39.0	8.7	3.2	TREE	2807	102.0 East	2.23%	Tree	Nov 21	Y				
		5415	332366.2	6242465.8	12.2	39.9	10.9	1.3	SPIRE	2989	96.1 West	1.46%	Sign	Nov 21	N				
8		5461	332637.6	6242219.0	9.6	31.3	7.2	2.3	TREE	2686	111.7 East	2.42%	Tree	Nov 21	Y				
9		5462	332630.8	6242235.1	9.8	32.1	7.5	2.3	TREE	2704	108.7 East	2.34%	Tree	Nov 21	Y				
		5466	332524.1	6242793.7	19.8	65.1	14.3	5.6	TREE	3272	132.6 East	1.92%	Tree	Nov 21	Y				
		5467	332540.4	6242799.7	17.6	57.8	14.3	3.3	TREE	3274	149.8 East	1.63%	Tree	Nov 21	Y				
		5468	332576.2	6242809.9	22.8	74.8	14.3	8.5	TREE	3276	187.0 East	2.29%	Tree	Nov 21	Y				
		5494	332426.8	6242856.4	16.7	54.8	15.3	1.4	SPIRE	3355	52.3 East	1.37%	Light Pole	Nov 21	Y				
		5495	332458.9	6242867.0	16.7	54.9	15.3	1.4	SPIRE	3358	85.9 East	1.36%	Light Pole	Nov 21	Y				
		5895	332356.7	6242451.9	14.6	48.0	10.7	3.9	SPIRE	2977	108.5 West	2.01%	Floodlight	Nov 21	N				
		5964	332342.8	6242395.5	15.3	50.2	10.1	5.2	TREE	2926	135.0 West	2.41%	Tree	Nov 21	Y				
		5965	332355.3	6242399.7	14.9	48.8	10.1	4.7	TREE	2927	121.8 West	2.30%	Tree	Nov 21	Y				
		5966	332391.3	6242407.8	14.6	47.8	10.1	4.4	TREE	2927	84.9 West	2.24%	Tree	Nov 21	Y				
		5967	332412.3	6242412.0	14.4	47.3	10.1	4.3	TREE	2926	63.5 West	2.20%	Tree	Nov 21	Y				
		5968	332372.9	6242419.2	15.9	52.2	10.3	5.6	TREE	2942	100.3 West	2.46%	Tree	Nov 21	Y				
		5969	332402.9	6242423.5	16.7	54.7	10.3	6.4	TREE	2939	70.0 West	2.65%	Tree	Nov 21	Y				
		5970	332538.5	6242663.7	19.0	62.2	12.7	6.3	TREE	3142	116.9 East	2.17%	Tree	Nov 21	Y				
		6604	332305.2	6244342.8	51.7	169.5	33.0	18.7	BLDG	4830	273.7 East	2.00%	Lightning Rod atop Apartments	Mar 22	N				
		9076	332347.1	6243056.9	18.9	62.0	17.8	1.1	SPIRE	3569	20.5 East	1.30%	25 Glide Path Mast cnr nearest RWY (lit)	Dec 21	Y				
		9080	332521.6	6242843.5	16.4	53.8	14.9	1.5	SPIRE	3321	141.5 East	1.39%	light pole long term carpark	Dec 21	Y				
		9081	332506.1	6242891.0	16.1	52.8	15.5	0.6	SPIRE	3371	137.3 East	1.27%	light pole long term carpark	Dec 21	Y				
		9087	332472.5	6242828.3	16.3	53.4	14.8	1.5	SPIRE	3317	90.3 East	1.38%	light pole long term carpark	Dec 21	Y				
		9089	332412.3	6242856.9	15.8	51.7	15.3	0.4	SPIRE	3359	38.2 East	1.25%	light pole long term carpark	Nov 21	Y				
		9092	332309.2	6242855.6	15.9	52.1	15.6	0.3	SPIRE	3381	62.5 West	1.23%	light pole long term carpark	Nov 21	Y				
		9093	332360.5	6242870.5	16.0	52.4	15.6	0.3	SPIRE	3384	9.1 West	1.24%	light pole long term carpark	Nov 21	Y				
		9094	332375.0	6242822.7	16.0	52.6	15.0	1.0	SPIRE	3334	5.9 West	1.32%	light pole long term carpark	Nov 21	Y				
		9095	332262.2	6242801.5	15.3	50.2	15.1	0.2	SPIRE	3339	120.6 West	1.23%	light pole long term carpark	Nov 21	Y				
		9097	332338.0	6242759.9	15.8	52.0	14.4	1.5	SPIRE	3282	56.2 West	1.39%	light pole long term carpark	Nov 21	Y				
		9098	332388.8	6242774.7	15.8	51.7	14.4	1.4	SPIRE	3284	3.5 West	1.37%	light pole long term carpark	Nov 21	Y				
		9111	332340.5	6243545.8	30.7	100.6	23.6	7.1	SPIRE	4046	125.8 East	1.66%	light pole long term carpark	Dec 21	Y				
		9112	332309.0	6243550.4	32.5	106.6	23.7	8.8	SPIRE	4058	96.2 East	1.76%	light pole long term carpark	Dec 21	Y				
		9113	332265.9	6243563.7	31.0	101.8	24.0	7.0	SPIRE	4080	57.3 East	1.64%	light pole long term carpark	Dec 21	Y				
		9114	332222.4	6243572.5	30.6	100.4	24.2	6.4	SPIRE	4099	16.9 East	1.60%	light pole long term carpark	Feb 22	Y				
		9538	332502.9	6242552.1	17.1	56.2	11.5	5.6	TREE	3041	56.7 East	2.24%	TREE	Nov 21	Y				
25	37	9539	332528.3	6242604.4	21.1	69.4	12.0	9.1	TREE	3087	93.4 East	2.75%	TREE	Mar 22	Y				

* Obstacle penetrates by < 0.05m.

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34R Takeoff)**

(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Sydney Kingsford-Smith Airport Runway 34R Take Off						
Mid-point Easting	of origin Northing	Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
332571.925	6242010.054	346° 47' 03"	3.999 (13.12)	2438.0	2498.0	4.984 (16.352)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

2021 RWY 34R Type A
Significant (Charted) Obstacles

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
MGA94															
1	1	4022	332583.1	6242032.2	6.7	21.9	5.2	1.5	SPIRE	2517	132.0 East	8.86%	HIAL	Mar 22	Y
2	4	4026	332561.3	6242061.5	7.2	23.6	5.6	1.6	SPIRE	2550	68.1 West	4.22%	HIAL	Mar 22	Y
3	5	4030	332553.8	6242093.8	7.8	25.5	6.0	1.8	SPIRE	2584	89.1 East	3.26%	HIAL	Mar 22	Y
4	6	4032	332546.2	6242126.1	8.3	27.4	6.4	1.9	SPIRE	2617	53.1 West	2.82%	HIAL	Nov 21	Y
5	7	5409	332641.1	6242166.7	9.8	32.2	6.6	3.2	TREE	2635	64.0 West	3.54%	Tree	Mar 22	Y
6	8	4036	332537.1	6242158.0	8.9	29.1	6.8	2.0	SPIRE	2650	108.4 West	2.55%	HIAL	Nov 21	Y
7	10	4066	332548.5	6242194.8	9.4	31.0	7.2	2.2	SPIRE	2683	129.1 West	2.41%	HIAL	Nov 21	Y
8		5461	332637.6	6242219.0	9.6	31.3	7.2	2.3	TREE	2686	591.2 East	2.42%	Tree	Nov 21	Y
9		5462	332630.8	6242235.1	9.8	32.1	7.5	2.3	TREE	2704	117.0 West	2.34%	Tree	Nov 21	Y
10	11	4070	332523.5	6242222.7	10.0	32.7	7.6	2.4	SPIRE	2716	93.1 West	2.28%	HIAL	Nov 21	Y
11	12	3512	332618.5	6242272.0	11.2	36.7	7.9	3.3	TREE	2742	73.0 West	2.53%	Tree	Nov 21	Y
12	13	4074	332516.0	6242254.4	10.5	34.5	8.0	2.5	SPIRE	2749	51.8 West	2.21%	HIAL	Nov 21	Y
13	14	3514	332613.5	6242306.7	11.7	38.3	8.3	3.3	TREE	2777	26.2 West	2.39%	Tree	Nov 21	Y
14	15	4078	332508.5	6242286.3	11.1	36.3	8.4	2.7	SPIRE	2781	2.3 West	2.14%	HIAL	Nov 21	Y
15	16	5412	332600.6	6242334.3	11.9	39.0	8.7	3.2	TREE	2807	26.2 East	2.23%	Tree	Nov 21	Y
16	17	4082	332501.1	6242318.1	11.6	38.0	8.8	2.8	SPIRE	2814	18.3 East	2.09%	HIAL	Nov 21	Y
17	20	4333	332608.2	6242407.0	16.0	52.4	9.5	6.5	SPIRE	2876	220.6 East	2.91%	Light Pole	Nov 21	N
18	29	1381	332580.7	6242476.5	17.6	57.7	10.4	7.2	SPIRE	2950	144.5 East	2.79%	Flood Light	Nov 21	N
19	30	4486	332605.2	6242496.2	19.2	63.1	10.6	8.7	TREE	2964	169.5 East	3.06%	Tree	Mar 22	N
20	33	4509	332588.3	6242499.4	19.5	64.1	10.7	8.9	TREE	2971	87.0 West	3.08%	Tree	Mar 22	N
21	34	4351	332603.0	6242507.2	19.4	63.7	10.7	8.7	SPIRE	2975	63.1 West	3.03%	Light Pole	Mar 22	N
22	35	4349	332575.4	6242508.2	19.8	65.0	10.8	9.0	SPIRE	2982	39.5 West	3.06%	Light Pole	Mar 22	N
23		2610	332573.1	6242562.0	20.7	68.0	11.4	9.3	TREE	3035	91.3 East	2.93%	Tree	Mar 22	Y
24	36	2634	332549.4	6242581.8	21.4	70.3	11.7	9.7	TREE	3060	142.5 East	2.93%	Tree	Mar 22	Y
25	37	9539	332528.3	6242604.4	21.1	69.4	12.0	9.1	TREE	3087	115.2 East	2.75%	TREE	Mar 22	Y
26	38	418	332545.7	6242699.3	24.4	79.9	13.1	11.3	TREE	3175	177.2 West	2.86%	Tree	Mar 22	Y
27	39	1241	332580.9	6242713.5	22.7	74.4	13.2	9.5	TREE	3181	291.7 West	2.59%	TREE	Mar 22	Y
28	40	1503	332045.1	6243478.1	35.2	115.4	23.6	11.6	SPIRE	4048	91.8 West	1.95%	Southern edge of steel light frame support atop floodlight pole	Mar 22	Y
29	41	4492	332173.3	6243646.9	38.7	127.1	25.2	13.5	BLDG	4183	278.5 East	2.00%	Multi Storey Carpark	Mar 22	Y
30	42	4214	331863.1	6243683.5	40.9	134.2	26.5	14.4	SPIRE	4289	409.9 East	2.01%	Obstruction Light (Lit 1/1)	Mar 22	Y
31	44	2816	332340.7	6243957.3	51.0	167.3	28.4	22.6	MOVG	4447	367.8 East	2.36%	BMU Window Washing Unit	Mar 22	N
32	45	2818	332312.3	6243970.4	50.9	167.0	28.6	22.3	BLDG	4466	303.8 East	2.33%	Stamford Hotel Plant Room	Mar 22	N
33	46	4781	332274.4	6244017.0	52.1	170.9	29.2	22.8	BLDG	4520	199.1 West	2.33%	BUILDING (Lit) Airport Central	Mar 22	N

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34R Takeoff)

(NEW AND DELETED OBSTACLES)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Sydney Kingsford-Smith Airport Runway 34R Take Off						
Mid-point Easting	of origin Northing	Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
332571.925	6242010.054	346° 47' 03"	3.999 (13.12)	2438.0	2498.0	4.984 (16.352)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.

2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

New Obstacles
(Obstacles newly reflected on Type A Charts - 2021 Survey)

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	
					MGA94		metres	metres		metres	metres	metres		%
					metres	(feet)	metres	metres		metres	%			
23		2610	332573.1	6242562.0	20.7	68.0	11.4	9.3	TREE	3035	91.3 East	2.93%	Tree	
8		5461	332637.6	6242219.0	9.6	31.3	7.2	2.3	TREE	2686	591.2 East	2.42%	Tree	
9		5462	332630.8	6242235.1	9.8	32.1	7.5	2.3	TREE	2704	117.0 West	2.34%	Tree	

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

Deleted Obstacles
(Obstacles removed from Type A Charts - 2020 Survey)

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description		
					MGA94		metres	(feet)		metres	metres	metres		metres	%
					metres	(feet)	metres	metres		metres	%				
	43	1189	332341.5	6243956.1	48.8	160.0	28.4	20.4	BLDG	4445	220.6 East	2.25%	SE Corner Stamford Hotel		
	26	2190	332422.8	6242429.5	17.8	58.5	10.3	7.5	TREE	2940	49.3 West	2.90%	Needle Pine		
	27	2418	332459.4	6242440.9	17.0	55.8	10.3	6.7	TREE	2943	11 West	2.70%	Sheoak		
	31	2420	332511.1	6242474.7	17.9	58.8	10.6	7.3	TREE	2964	47 East	2.77%	Tallest of a grove of trees		
	32	2422	332486.3	6242469.7	18.3	60.1	10.6	7.7	TREE	2965	21.8 East	2.85%	Tallest of a grove of trees		
	21	3092	332551.7	6242421.6	17.0	55.8	9.8	7.2	TREE	2903	74.4 East	2.97%	Tree		
	25	3093	332375.8	6242416.0	18.3	60.1	10.3	8.1	TREE	2938	98.1 West	3.03%	Tree		
	22	3484	332546.5	6242426.6	17.3	56.7	9.9	7.4	TREE	2909	70.5 East	2.99%	Tree		
	28	3486	332529.1	6242462.1	17.3	56.8	10.4	6.9	TREE	2948	61.6 East	2.74%	Tree		
	3	4002	332553.4	6242025.3	6.7	21.9	5.2	1.5	SPIRE	2517	14.5 West	8.85%	HIAL		
	2	4012	332568.3	6242028.8	6.7	21.9	5.2	1.5	SPIRE	2517	0.7 East	8.85%	HIAL		
	9	4054	332530.9	6242190.6	9.4	30.9	7.2	2.2	SPIRE	2683	1.4 East	2.39%	HIAL		
	18	4084	332471.0	6242344.5	12.2	39.9	9.2	3.0	SPIRE	2847	21.8 West	2.06%	HIAL		
	19	4303	332580.8	6242397.1	14.4	47.3	9.5	4.9	SPIRE	2873	97.1 East	2.52%	Light Pole		
	24	5413	332406.1	6242422.0	18.2	59.7	10.3	7.9	TREE	2937	67.3 West	3.01%	Tree		
	23	5414	332398.4	6242418.9	18.3	60.1	10.2	8.1	TREE	2936	75.4 West	3.05%	Tree		

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.