


OBSTACLE LIMITATION SURVEYS AND ASSESSMENT

RAAF BASE RICHMOND AERODROME OBSTACLE CHART ICAO TYPE A
(OPERATING LIMITATIONS) ISSUED FEBRUARY 2018



CLIENT			REV	DATE	REVISION DETAILS	APPROVED	SCALE	SIZE	SIGNED FOR ISSUE	PROJECT
			A	12.08.16	FINAL FOR REVIEW		AS SHOWN	A1/A3	NOT FOR CONSTRUCTION	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT
			B	02.06.17	SIGNED FOR ISSUE	GG				
			C	23.02.18	SIGNED FOR ISSUE	GG				
							DRAWN		APPROVED	TITLE
							AM			RAAF BASE RICHMOND AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED FEBRUARY 2018 COVER SHEET
							SURVEYED		DATE	
							PD / AAM		23.02.18	
							CHECKED			
							DGG		GARRY GRAHAM	
DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV				
248842	-	D21005	-	DRG	-	CV	-	001	-	C

DECLARED DISTANCES FOR RUNWAY 28

TAKE OFF RUN AVAILABLE (TORA)	2134m (7001')
TAKE OFF DISTANCE AVAILABLE (TODA)	2194m (7198') 4.56%
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	2134m (7001')
LANDING DISTANCE AVAILABLE (LDA)	2134m (7001')
SUPPLEMENTARY TAKE OFF DISTANCE AVAILABLE (STODA)	1935m (6348') 3.3%

LEGEND

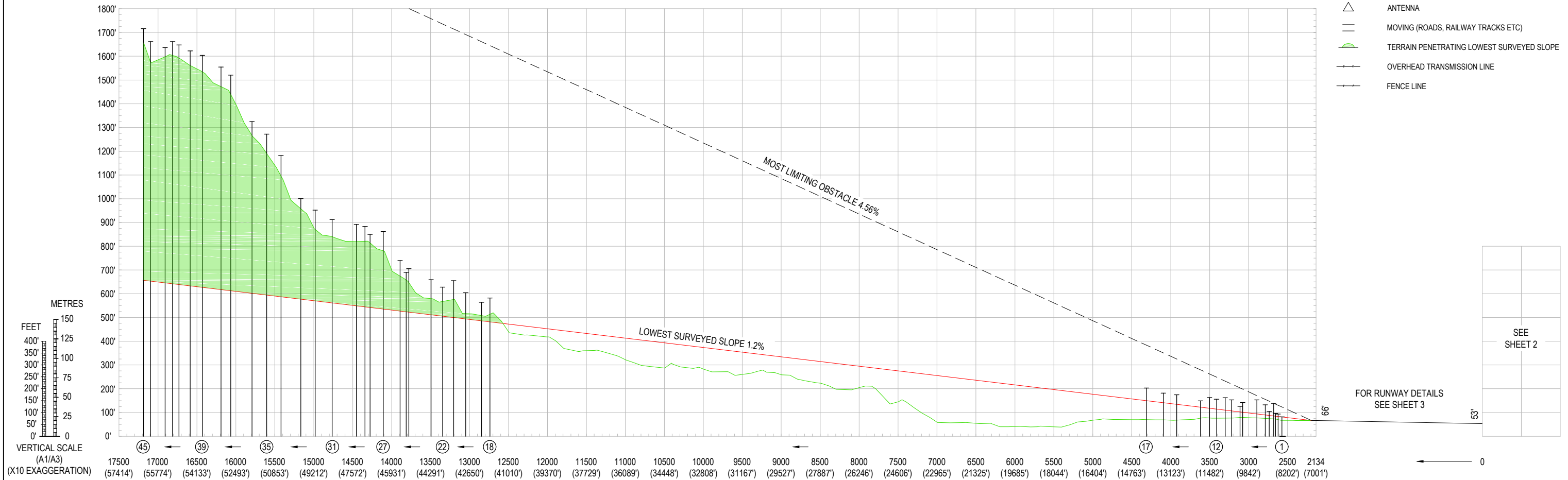
- LOWEST SURVEYED SLOPE
- GROUND LEVEL
- - - MOST LIMITING OBSTACLE
- ① OBSTACLE

NOTES

- AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA (GDA94) ZONE 56 THE VERTICAL DATUM BEING AHD.
- HORIZONTAL DIMENSIONS IN METRES (FEET) ELEVATIONS IN FEET
- USERS OF THIS CHART SHOULD NOTIFY ANY ERRORS OR OMISSIONS AS SOON AS THEY BECOME APPARENT TO:
PROJECT DIRECTOR, NATIONAL AIRFIELD PROJECT, BP26-1C-052,
DEPARTMENT OF DEFENCE, CANBERRA ACT 2600, TEL: (02) 6266 8081
- FOR FURTHER INFORMATION REGARDING THIS CHART CONTACT THE ABOVE

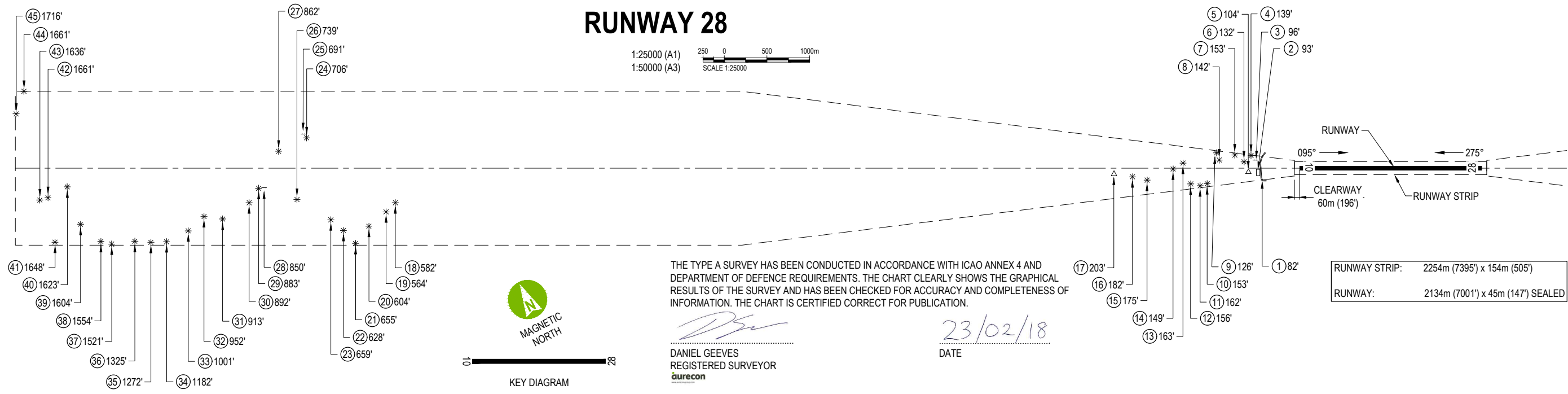
LEGEND

- OBSTRUCTIONS AND OBSTACLES**
- ① OBSTACLE NUMBER
 - 392' TOP ELEVATION IN FEET
 - * TREE(S) OR VEGETATION
 - BUILDING OR LARGE STRUCTURE
 - POLE, TOWER, SPIRE ETC
 - △ ANTENNA
 - MOVING (ROADS, RAILWAY TRACKS ETC)
 - TERRAIN PENETRATING LOWEST SURVEYED SLOPE
 - OVERHEAD TRANSMISSION LINE
 - FENCE LINE



RUNWAY 28

1:25000 (A1) 250 0 500 1000m
1:50000 (A3) SCALE 1:25000



THE TYPE A SURVEY HAS BEEN CONDUCTED IN ACCORDANCE WITH ICAO ANNEX 4 AND DEPARTMENT OF DEFENCE REQUIREMENTS. THE CHART CLEARLY SHOWS THE GRAPHICAL RESULTS OF THE SURVEY AND HAS BEEN CHECKED FOR ACCURACY AND COMPLETENESS OF INFORMATION. THE CHART IS CERTIFIED CORRECT FOR PUBLICATION.

DANIEL GEEVES
REGISTERED SURVEYOR
aurecon

DATE



CLIENT
Australian Government
Department of Defence
Estate and Infrastructure Group

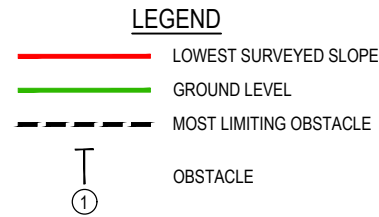
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SCALE	SIZE
AS SHOWN	A1/A3
DRAWN	
AM	
SURVEYED	
PD / AAM	
CHECKED	
DGG	

SIGNED FOR ISSUE
NOT FOR CONSTRUCTION
APPROVED
DATE 23.02.18
GARRY GRAHAM

PROJECT	TITLE	DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
OBSTACLE LIMITATION SURVEYS AND ASSESSMENT	RAAF BASE RICHMOND AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED FEBRUARY 2018 RUNWAY 28 - SHEET 1 OF 4	248842	D21005	DRG	CV	002	C	

DECLARED DISTANCES FOR RUNWAY 10	
TAKE OFF RUN AVAILABLE (TORA)	2134m (7001')
TAKE OFF DISTANCE AVAILABLE (TODA)	2194m (7198')
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	2134m (7001')
LANDING DISTANCE AVAILABLE (LDA)	2134m (7001')
SUPPLEMENTARY TAKE OFF DISTANCE AVAILABLE (STODA)	1452m (4763') 1.6%, 1769m (5803') 1.9%, 1847m (6059') 2.0%, 1919m (6295') 2.2%, 2007m (6584') 2.5%, 2154m (7066') 3.3%, 2165m (7103') 5.0%



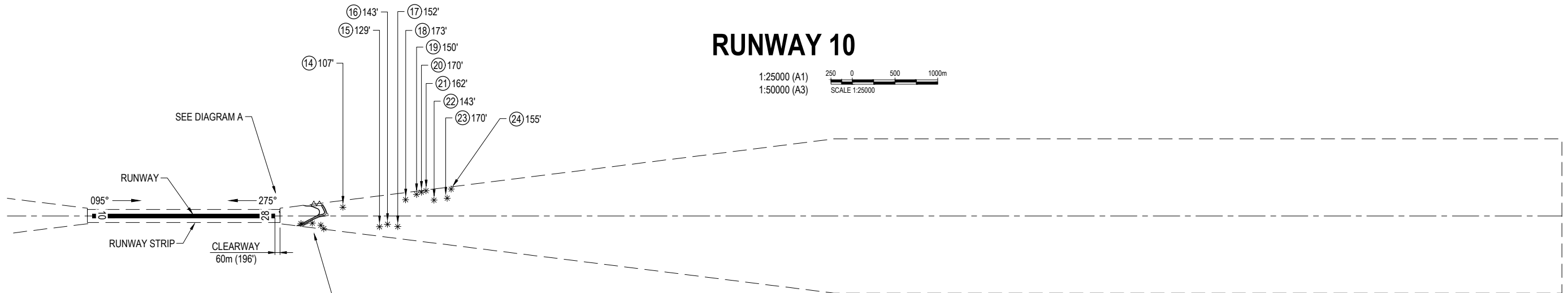
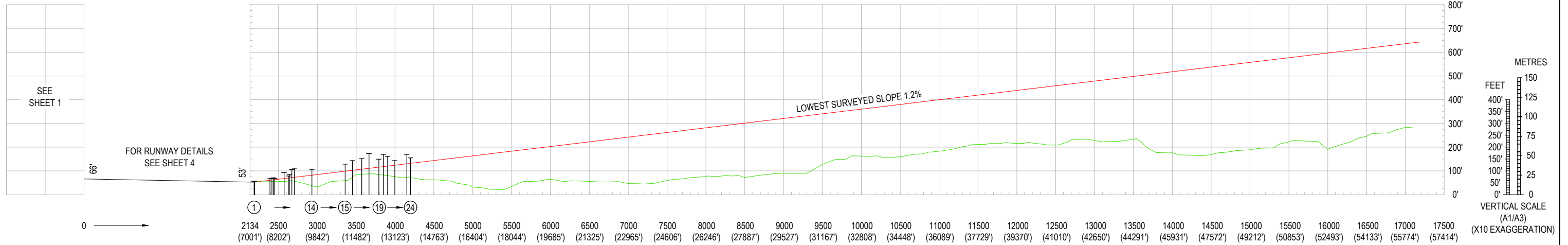
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PROJECT DIRECTOR
NATIONAL AIRFIELD PROJECT
BP26-1C-052
DEPARTMENT OF DEFENCE
CANBERRA ACT 2600
TEL: (02) 6266 8081
- FOR FURTHER INFORMATION REGARDING THIS CHART CONTACT THE ABOVE
- MAGNETIC VARIATION 12°17' E (FEBRUARY 2018)
- AERIAL SURVEY COMPLETED FEBRUARY 2016.
GROUND SURVEY CHECKS AND VERIFICATION MAY 2016.

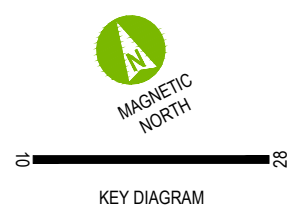
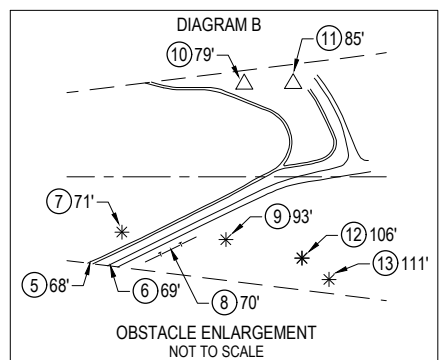
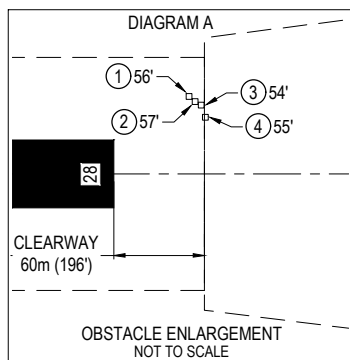
LEGEND

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 - POLE, TOWER, SPIRE ETC
 - △ ANTENNA
 - MOVING (ROADS, RAILWAY TRACKS ETC)
 - TERRAIN PENETRATING LOWEST SURVEYED SLOPE
 - OVERHEAD TRANSMISSION LINE
 - FENCE LINE
 - EQUIPMENT



RUNWAY STRIP:	2254m (7395') x 154m (505')
RUNWAY:	2134m (7001') x 45m (147') SEALED

NOTE:
EQUIPMENT IS LOCATED IN THE CLEARWAY, THEREFORE THE TODA GRADIENT CANNOT BE PUBLISHED



THE TYPE A SURVEY HAS BEEN CONDUCTED IN ACCORDANCE WITH ICAO ANNEX 4 AND DEPARTMENT OF DEFENCE REQUIREMENTS. THE CHART CLEARLY SHOWS THE GRAPHICAL RESULTS OF THE SURVEY AND HAS BEEN CHECKED FOR ACCURACY AND COMPLETENESS OF INFORMATION. THE CHART IS CERTIFIED CORRECT FOR PUBLICATION.

DANIEL GEEVES
REGISTERED SURVEYOR
aurecon
DATE: 23/02/18



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SCALE	AS SHOWN	SIZE	A1/A3
DRAWN	AM		
SURVEYED	PD / AAM		
CHECKED	DGG		

SIGNED FOR ISSUE
NOT FOR CONSTRUCTION

APPROVED
DATE: 23.02.18
GARRY GRAHAM

PROJECT	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT				
TITLE	RAAF BASE RICHMOND AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED FEBRUARY 2018 RUNWAY 10 - SHEET 2 OF 4				
DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER
248842	D21005	DRG	CV	003	C

DEPARTMENT OF DEFENCE

ESTATE AND INFRASTRUCTURE GROUP

AERODROME OBSTACLE CHART - ICAO TYPE A
(OPERATING LIMITATIONS) FEBRUARY 2018, COMPILED BY AURECON

TO BE READ IN CONJUNCTION WITH CURRENT NOTAMS

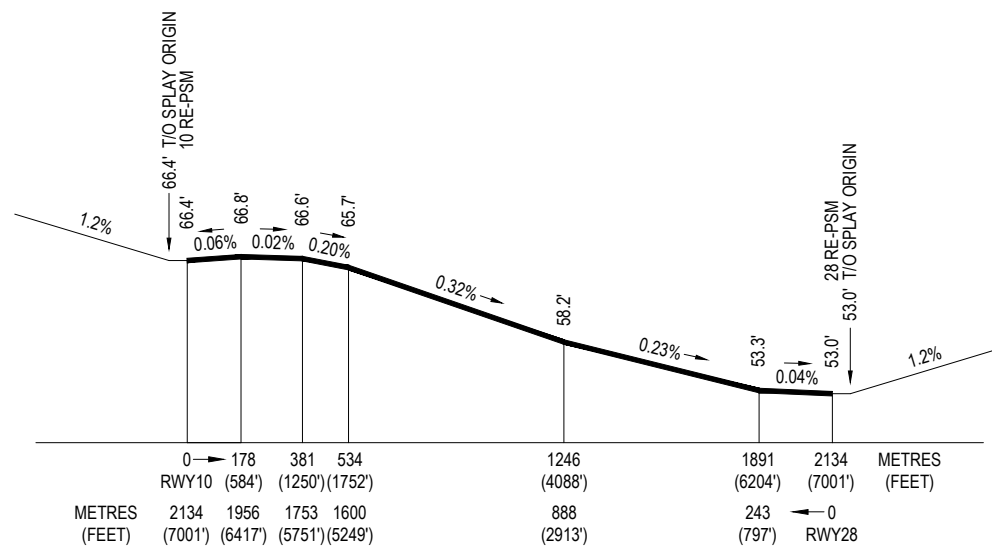
THE ORIGIN OF THE TAKE OFF SURFACE IS LOCATED AT THE END OF THE CLEARWAY.
DISTANCES COMMENCE FROM THE RAAF RE-PSM AT THE START OF THE TAKE-OFF RUNWAY (SOT)

DATUM

AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA (GDA94) ZONE 56
THE VERTICAL DATUM BEING AHD.

DEFINITIONS

- RE-PSM: RUNWAY END PERMANENT SURVEY MARK
- LENGTH OF INNER EDGE 180m
- RATE OF DIVERGENCE OF SPLAY (EACH SIDE) 12.5%
- FINAL WIDTH 1800m
- OVERALL LENGTH 15000m



10/28 RWY LONGITUDINAL SECTION
NOT TO SCALE

28 TAKE OFF																		
RE - PSM AT START OF TORA										RUNWAY MAGNETIC BEARING			TORA		TODA		ELEVATION AT T.O. ORIGIN	
GEOGRAPHIC						MGA		ELEVATION		(DEG) (MIN) (SEC)			(m)	(FT)	(m)	(FT)	(m)	(FT)
LAT			LONG			EASTING	NORTHING	(m)	(FT)	(DEG)	(MIN)	(SEC)	(m)	(FT)	(m)	(FT)	(m)	(FT)
(DEG)	(MIN)	(SEC)	(DEG)	(MIN)	(SEC)													
-33°	36'	26.18"	150°	47'	35.59"	295255.82	6279204.38	16.2	53.0	274°	49'	38"	2134	7001	2194	7198	20.3	66.4
OBJECTS THAT APPEAR ON THE CHART																		
REF No	GEOGRAPHIC						MGA		ELEVATION TOP		TYPE OF OBSTACLE	DISTANCE FROM SOT		OFFSET		GRADIENT TO TOP		
	LAT			LONG			EASTING	NORTHING	(m)	(FT)		(m)	(FT)	(m)	(FT)		%	
(DEG)	(MIN)	(SEC)	(DEG)	(MIN)	(SEC)	(m)					(FT)					(m)		(FT)
1	-33°	36'	05.88"	150°	45'	58.71"	292744.92	6279776.24	24.9	81.7	MOVING	2571.2	8435.8	136.9L	449.2L	1.23		
2	-33°	36'	02.72"	150°	45'	57.86"	292721.06	6279873.24	28.5	93.4	BUILDING	2620.7	8598.2	50.2L	164.6L	1.92		
3	-33°	35'	57.90"	150°	45'	58.27"	292728.31	6280021.81	29.4	96.4	LINES	2654.4	8708.6	94.7R	310.7R	1.98		
4	-33°	35'	55.98"	150°	45'	58.04"	292721.06	6280080.78	42.3	138.9	TREE	2677.5	8784.4	149.4R	490.2R	4.56		
5	-33°	36'	01.46"	150°	45'	53.70"	292612.93	6279909.47	31.8	104.4	ANTENNA	2734.6	8971.9	44.9L	147.3L	2.14		
6	-33°	35'	57.29"	150°	45'	53.18"	292596.72	6280037.90	40.3	132.2	TREE	2785.4	9138.3	74.2R	243.3R	3.38		
7	-33°	35'	53.76"	150°	45'	50.05"	292513.65	6280144.67	46.8	153.4	TREE	2894.4	9496.2	154.1R	505.7R	3.78		
8	-33°	35'	53.84"	150°	45'	42.64"	292322.70	6280138.08	43.4	142.3	TREE	3076.3	10092.8	95.6R	313.5R	2.62		
9	-33°	35'	50.94"	150°	45'	42.39"	292314.43	6280227.56	38.4	126.1	TREE	3108.7	10199.2	179.3R	588.4R	1.99		
10	-33°	36'	01.06"	150°	45'	34.22"	292110.56	6279911.08	46.6	152.8	TREE	3218.2	10558.4	180.8L	593.1L	2.57		
11	-33°	36'	01.04"	150°	45'	30.88"	292024.36	6279909.97	49.5	162.3	TREE	3300.8	10829.4	205.4L	674.0L	2.64		
12	-33°	35'	59.31"	150°	45'	27.03"	291923.95	6279960.87	47.5	155.8	TREE	3411.3	11191.9	184.0L	603.5L	2.24		
13	-33°	35'	50.89"	150°	45'	26.49"	291904.37	6280219.93	49.7	163.2	TREE	3501.0	11486.2	59.8R	196.3R	2.26		
14	-33°	35'	51.94"	150°	45'	21.38"	291773.37	6280184.93	45.4	148.9	TREE	3617.4	11868.1	9.7L	31.7L	1.76		
15	-33°	35'	53.05"	150°	45'	08.60"	291444.60	6280143.42	53.2	174.5	TREE	3922.2	12868.2	139.5L	457.8L	1.91		
16	-33°	35'	50.21"	150°	45'	02.71"	291290.77	6280227.70	55.3	181.5	TREE	4093.2	13429.3	100.6L	329.9L	1.85		
17	-33°	35'	47.10"	150°	44'	55.01"	291090.29	6280319.12	61.8	202.9	ANTENNA	4311.1	14143.9	67.5L	221.4L	1.96		
18	-33°	34'	36.90"	150°	39'	38.93"	282892.70	6282301.28	177.4	582.1	TREE	12737.1	41788.5	403.8L	1324.7L	1.49		
19	-33°	34'	39.19"	150°	39'	33.69"	282759.08	6282227.43	171.8	563.7	TREE	12845.4	42143.8	511.4L	1677.7L	1.42		
20	-33°	34'	42.47"	150°	39'	24.30"	282519.14	6282121.05	184.1	604.0	TREE	13047.1	42805.4	679.3L	2228.7L	1.51		
21	-33°	34'	47.21"	150°	39'	16.20"	282313.70	6281970.39	199.6	654.7	TREE	13203.5	43318.4	880.4L	2888.5L	1.63		
22	-33°	34'	41.15"	150°	39'	12.68"	282218.65	6282154.90	191.5	628.2	TREE	13345.3	43783.9	729.0L	2391.6L	1.54		
23	-33°	34'	35.85"	150°	39'	08.65"	282110.97	6282315.85	200.9	659.0	TREE	13492.9	44268.2	603.6L	1980.4L	1.60		
24	-33°	34'	03.38"	150°	39'	09.06"	282099.01	6283316.34	215.2	706.0	TREE	13778.1	45203.9	355.3R	1165.7R	1.68		
25	-33°	34'	01.65"	150°	39'	08.32"	282078.54	6283369.26	210.5	690.5	LINES	13812.3	45315.9	400.6R	1314.3R	1.64		
26	-33°	34'	24.68"	150°	38'	56.64"	281793.61	6282652.95	225.4	739.4	TREE	13890.4	45572.1	366.2L	1201.6L	1.75		
27	-33°	34'	05.12"	150°	38'	55.11"	281740.38	6283254.65	262.7	862.0	TREE	14106.2	46280.1	197.9R	649.1R	2.04		
28	-33°	34'	16.72"	150°	38'	43.93"	281460.21	6282890.64	259.1	850.1	LINES	14276.0	46837.4	228.9L	750.9L	1.98		
29	-33°	34'	16.29"	150°	38'	41.48"	281396.75	6282902.52	269.2	883.2	TREE	14340.3	47048.3	234.8L	770.3L	2.05		
30	-33°	34'	20.46"	150°	38'	35.43"	281243.57	6282770.46	271.9	891.9	TREE	14451.5	47413.1	403.7L	1324.5L	2.05		
31	-33°	34'	23.39"	150°	38'	21.73"	280892.40	6282672.31	278.2	912.7	TREE	14762.4	48433.0	594.2L	1949.4L	2.05		
32	-33°	34'	20.40"	150°	38'	13.98"	280690.38	6282759.64	290.1	951.8	TREE	14980.6	49148.8	565.4L	1855.1L	2.11		
33	-33°	34'	23.82"	150°	38'	05.22"	280466.96	6282649.36	305.0	1000.7	TREE	15165.3	49754.8	732.6L	2403.6L	2.20		
34	-33°	34'	25.34"	150°	37'	54.35"	280187.52	6282595.86	360.1	1181.5	TREE	15419.4	50588.5	860.5L	2823.2L	2.57		
35	-33°	34'	23.80"	150°	37'	47.46"	280008.94	6282639.49	387.6	1271.8	TREE	15603.0	51191.1	867.4L	2845.9L	2.74		
36	-33°	34'	21.58"	150°	37'	40.64"	279831.37	6282703.61	403.8	1324.9	TREE	15791.4	51808.9	854.3L	2802.9L	2.82		
37	-33°	34'	20.01"	150°	37'	30.19"	279560.70	6282745.86	463.5	1520.8	TREE	16063.2	52700.9	887.7L	2912.5L	3.20		
38	-33°	34'	17.84"	150°	37'	25.87"	279447.75	6282810.17	473.7	1554.2	TREE	16189.4	53115.0	856.8L	2811.0L	3.24		
39	-33°	34'	09.33"	150°	37'	19.32"	279272.92	6283068.45	488.8	1603.5	TREE	16428.2	53898.4	656.2L	2153.0L	3.29		
40	-33°	33'	54.25"	150°	37'	18.57"	279242.99	6283532.65	494.6	1622.8	TREE	16584.0	54409.5	218.0L	715.2L	3.30		
41	-33°	34'	12.98"	150°	37'	05.83"	278927.66	6282948.18	502.3	1647.9	TREE	16727.4	54879.9	866.3L	2842.4L	3.32		
42	-33°	33'	56.01"	150°	37'	08.75"	278990.97	6283472.65	506.4	1661.4	TREE	16810.0	55150.8	344.6L	1130.7L	3.33		
43	-33°	33'	55.96"	150°	37'	04.87"	278890.82	6283471.85	498.7	1636.1	TREE	16906.1	55466.1	372.8L	1223.1L	3.25		
44	-33°	33'	14.75"	150°	37'	12.57"	279060.24	6284746.11	506.4	1661.4	TREE	17091.7	56075.3	899.0R	2949.6R	3.26		
45	-33°	33'	22.04"	150°	37'	06.16"	278900.05	6284517.63	523.1	1716.2	TREE	17183.3	56375.6	635.5R	2084.9R	3.35		

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DANIEL GEEVES
REGISTERED SURVEYOR
aurecon

23/02/18
DATE



www.aurecongroup.com



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				SURVEYED		DATE	RUNWAY 28 - SHEET 3 OF 4
				PD / AAM		23.02.18	
				CHECKED			DRAWING No.
				DGG			PROJECT No.
							WBS
							TYPE
							DISC
							NUMBER
							REV
							248842 - D21005 - DRG - CV - 004 - C

DEPARTMENT OF DEFENCE

ESTATE AND INFRASTRUCTURE GROUP

AERODROME OBSTACLE CHART - ICAO TYPE A
(OPERATING LIMITATIONS) FEBRUARY 2018, COMPILED BY AURECON

TO BE READ IN CONJUNCTION WITH CURRENT NOTAMS

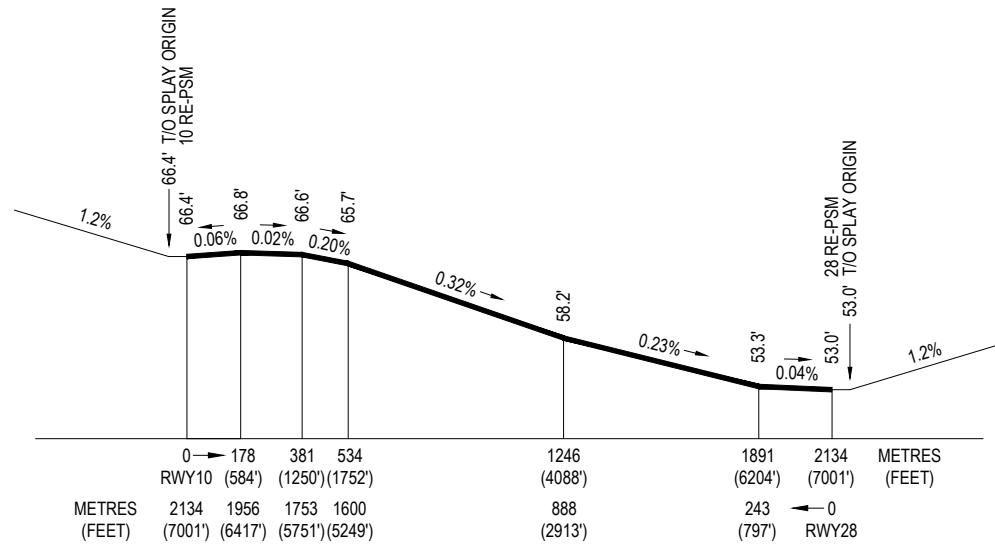
THE ORIGIN OF THE TAKE OFF SURFACE IS LOCATED AT THE END OF THE CLEARWAY.
DISTANCES COMMENCE FROM THE RAAF RE-PSM AT THE START OF THE TAKE-OFF RUNWAY (SOT)

DATUM

AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA (GDA94) ZONE 56
THE VERTICAL DATUM BEING AHD.

DEFINITIONS

- RE-PSM: RUNWAY END PERMANENT SURVEY MARK
- LENGTH OF INNER EDGE 180m
- RATE OF DIVERGENCE OF SPLAY (EACH SIDE) 12.5%
- FINAL WIDTH 1800m
- OVERALL LENGTH 15000m



10/28 RWY LONGITUDINAL SECTION
NOT TO SCALE

10 TAKE OFF																		
RE - PSM AT START OF TORA								RUNWAY MAGNETIC BEARING		TORA		TODA		ELEVATION AT T.O. ORIGIN				
GEOGRAPHIC						MGA		ELEVATION		(DEG) (MIN) (SEC)			(m)	(FT)	(m)	(FT)		
LAT		LONG				EASTING	NORTHING	(m)	(FT)	(DEG)	(MIN)	(SEC)	(m)	(FT)	(m)	(FT)	(m)	(FT)
(DEG)	(MIN)	(SEC)	(DEG)	(MIN)	(SEC)													
-33°	36'	05.81"	150°	46'	16.49"	293203.30	6279788.23	20.3	66.4	94°	49'	38"	2134	7001	2194	7198	16.2	53.0
OBJECTS THAT APPEAR ON THE CHART																		
REF No	GEOGRAPHIC						MGA		ELEVATION TOP		TYPE OF OBSTACLE	DISTANCE FROM SOT		OFFSET		GRADIENT TO TOP		
	(DEG)	(MIN)	(SEC)	(DEG)	(MIN)	(SEC)	EASTING	NORTHING	(m)	(FT)		(m)	(FT)	(m)	(FT)		%	
1	-33°	36'	25.16"	150°	47'	38.12"			295320.36	6279237.14	17.1	56.1	EQUIPMENT	2186.8	7174.5	49.2L	161.3L	-
2	-33°	36'	25.20"	150°	47'	38.12"	295320.31	6279236.10	17.2	56.5	EQUIPMENT	2187.0	7175.3	48.1L	158.0L	-		
3	-33°	36'	25.32"	150°	47'	38.25"	295323.89	6279232.34	16.6	54.4	EQUIPMENT	2191.5	7190.0	45.5L	149.3L	-		
4	-33°	36'	25.60"	150°	47'	38.27"	295324.42	6279223.79	16.8	55.0	EQUIPMENT	2194.3	7199.3	37.4L	122.8L	94.90		
5	-33°	36'	32.16"	150°	47'	43.80"	295471.42	6279024.66	20.6	67.7	MOVING	2390.2	7841.8	113.9R	373.6R	2.28		
6	-33°	36'	32.52"	150°	47'	44.70"	295494.88	6279014.17	21.0	68.9	MOVING	2415.6	7925.3	117.5R	385.6R	2.17		
7	-33°	36'	31.78"	150°	47'	45.82"	295523.23	6279037.51	21.7	71.2	TREE	2436.5	7993.8	87.3R	286.5R	2.29		
8	-33°	36'	32.21"	150°	47'	46.32"	295536.26	6279024.65	21.3	69.9	LINES	2452.5	8046.4	96.1R	315.4R	1.84		
9	-33°	36'	32.95"	150°	47'	50.88"	295654.40	6279004.40	28.3	92.8	TREE	2571.7	8437.4	83.3R	273.3R	3.21		
10	-33°	36'	26.42"	150°	47'	55.53"	295769.86	6279207.86	24.1	79.0	ANTENNA	2627.1	8619.1	144.0L	472.4L	1.83		
11	-33°	36'	26.62"	150°	47'	56.02"	295782.83	6279202.19	26.0	85.3	ANTENNA	2641.1	8665.1	142.1L	466.1L	2.20		
12	-33°	36'	34.67"	150°	47'	54.33"	295744.47	6278953.30	32.2	105.6	TREE	2672.3	8767.4	107.8R	353.7R	3.35		
13	-33°	36'	36.23"	150°	47'	55.15"	295766.61	6278905.57	33.9	111.2	TREE	2706.7	8880.1	147.6R	484.4R	3.46		
14	-33°	36'	30.60"	150°	48'	06.28"	296049.88	6279085.04	32.5	106.5	TREE	2930.0	9612.8	102.5L	336.1L	2.21		
15	-33°	36'	41.75"	150°	48'	19.58"	296399.77	6278748.78	39.2	128.6	TREE	3358.5	11018.6	125.2R	410.8R	1.98		
16	-33°	36'	41.75"	150°	48'	23.36"	296497.25	6278750.85	43.6	143.0	TREE	3451.7	11324.4	96.6R	316.8R	2.18		
17	-33°	36'	43.73"	150°	48'	27.52"	296605.73	6278692.15	46.2	151.7	TREE	3572.1	11719.3	123.3R	404.6R	2.18		
18	-33°	36'	34.88"	150°	48'	34.50"	296779.88	6278968.71	52.8	173.4	TREE	3663.9	12020.6	190.3L	624.3L	2.50		
19	-33°	36'	34.18"	150°	48'	39.94"	296919.71	6278993.17	45.6	149.7	TREE	3791.7	12439.8	252.1L	827.0L	1.84		
20	-33°	36'	33.91"	150°	48'	42.37"	296982.25	6279002.90	51.7	169.7	TREE	3849.1	12628.4	278.5L	913.8L	2.15		
21	-33°	36'	33.91"	150°	48'	44.56"	297038.70	6279004.16	49.3	161.6	TREE	3903.1	12805.4	295.2L	968.4L	1.94		
22	-33°	36'	38.20"	150°	48'	46.75"	297098.02	6278873.06	43.6	143.1	TREE	3996.0	13110.3	185.3L	608.0L	1.52		
23	-33°	36'	38.99"	150°	48'	52.74"	297252.78	6278852.03	51.7	169.5	TREE	4150.6	13617.4	207.4L	680.6L	1.81		
24	-33°	36'	36.11"	150°	48'	55.69"	297326.95	6278942.48	47.3	155.3	TREE	4197.2	13770.3	314.7L	1032.5L	1.56		

THE TYPE A SURVEY HAS BEEN CONDUCTED IN ACCORDANCE WITH ICAO ANNEX 4 AND DEPARTMENT OF DEFENCE REQUIREMENTS. THE CHART CLEARLY SHOWS THE GRAPHICAL RESULTS OF THE SURVEY AND HAS BEEN CHECKED FOR ACCURACY AND COMPLETENESS OF INFORMATION. THE CHART IS CERTIFIED CORRECT FOR PUBLICATION.

[Signature]
DANIEL GEEVES
REGISTERED SURVEYOR
aurecon

23/02/18
DATE



CLIENT

Australian Government
Department of Defence
Estate and Infrastructure Group

REV	DATE	REVISION DETAILS	APPROVED
A	12.08.16	FINAL FOR REVIEW	
B	02.06.17	SIGNED FOR ISSUE	GG
C	23.02.18	SIGNED FOR ISSUE	GG

SCALE	SIZE
AS SHOWN	A1/A3
DRAWN	APPROVED
AM	<i>[Signature]</i>
SURVEYED	DATE
PD / AAM	23.02.18
CHECKED	DATE
DGG	

SIGNED FOR ISSUE
NOT FOR CONSTRUCTION

GARRY GRAHAM

PROJECT: OBSTACLE LIMITATION SURVEYS AND ASSESSMENT

TITLE: RAAF BASE RICHMOND AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED FEBRUARY 2018 RUNWAY 10 - SHEET 4 OF 4

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
248842	D21005	DRG	CV	005	C	