

LEGEND

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

NOTES

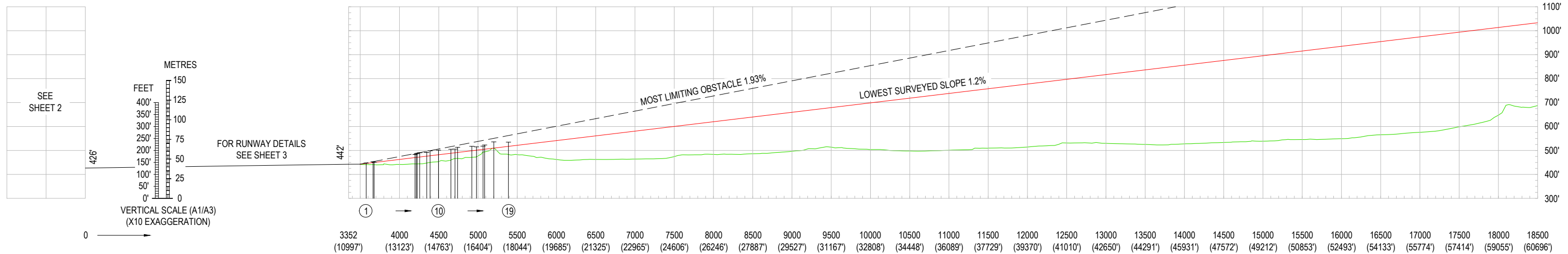
1. AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA (GDA2020) ZONE 53 THE VERTICAL DATUM BEING AHD.
2. HORIZONTAL DIMENSIONS IN METRES (FEET) ELEVATIONS IN FEET
3. USERS OF THIS CHART SHOULD NOTIFY ANY ERRORS OR OMISSIONS AS SOON AS THEY BECOME APPARENT TO :-

AERONAUTICAL INFORMATION SERVICE – AIR FORCE
EMAIL: AIS.AF@DEFENCE.GOV.AU
4. FOR FURTHER INFORMATION REGARDING THIS CHART CONTACT THE ABOVE
5. MAGNETIC VARIATION 2° 46' E (JULY 2024)
6. AERIAL SURVEY COMPLETED OCTOBER 2023.
GROUND SURVEY CHECKS AND VERIFICATION MAY 2024.

LEGEND

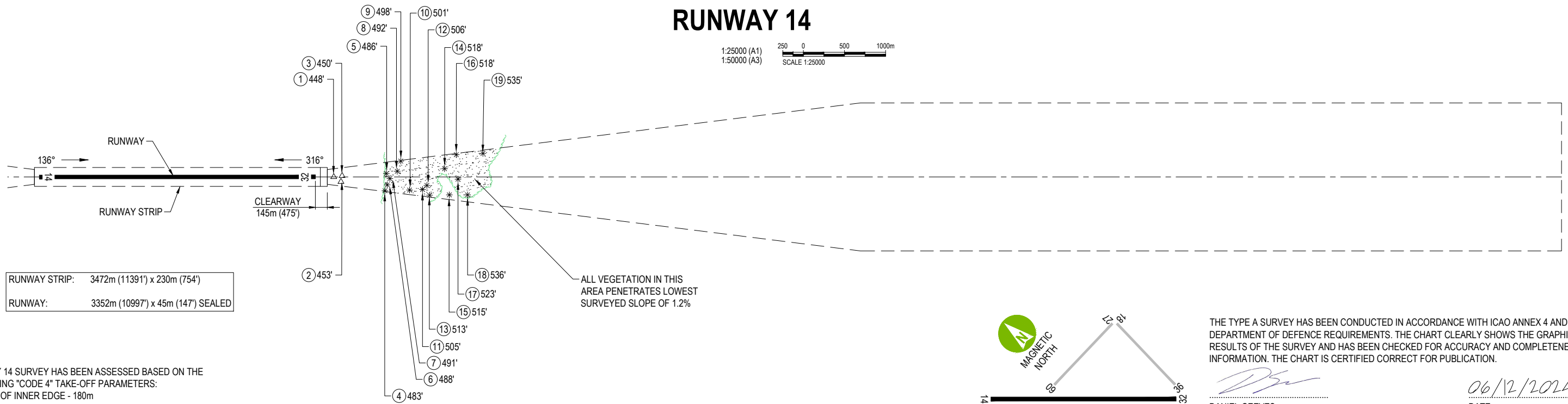
- OBSTRUCTIONS AND OBSTACLES**
- ① OBJECT NUMBER
 - 392 TOP ELEVATION IN FEET
 - TREE(S) OR VEGETATION
 - BUILDING OR LARGE STRUCTURE
 - POLE, TOWER, SPIRE ETC
 - △ ANTENNA
 - MOVING (ROADS, RAILWAY TRACKS ETC)
 - TERRAIN PENETRATING LOWEST SURVEYED SLOPE
 - OVERHEAD TRANSMISSION LINE
 - FENCE LINE
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

DECLARED DISTANCES FOR RUNWAY 14	
TAKE OFF RUN AVAILABLE (TORA)	3352m (10997')
TAKE OFF DISTANCE AVAILABLE (TODA)	3497m (11473') 1.93%
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	3352m (10997')
LANDING DISTANCE AVAILABLE (LDA)	3352m (10997')
SUPPLEMENTARY TAKE OFF DISTANCE AVAILABLE (STODA)	3324m (10905') 1.6%, 3489m (11446') 1.9%



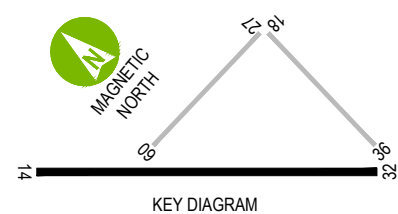
RUNWAY 14

1:25000 (A1)
1:50000 (A3)
SCALE 1:25000



RUNWAY STRIP: 3472m (11391') x 230m (754')
RUNWAY: 3352m (10997') x 45m (147') SEALED

RUNWAY 14 SURVEY HAS BEEN ASSESSED BASED ON THE FOLLOWING "CODE 4" TAKE-OFF PARAMETERS:
LENGTH OF INNER EDGE - 180m
RATE OF DIVERGENCE (EACH SIDE) - 12.5%
FINAL WIDTH - 1800m
OVERALL LENGTH - 15000m



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
06/12/2024
DATE



CLIENT

Australian Government
Department of Defence
Security and Estate Group

REV	DATE	REVISION DETAILS	APPROVED
A	08.10.24	FOR REVIEW	DG
B	25.10.24	FOR ISSUE	DG
C	06.12.24	FOR ISSUE - RWS WIDTH AMENDMENT	DG

SCALE	AS SHOWN	SIZE	A1/A3
DRAWN	MH	FOR ISSUE	NOT FOR CONSTRUCTION
SURVEYED	KI/AD/WOOLPERT	APPROVED	<i>[Signature]</i>
CHECKED	GH	DATE	06/12/2024
		SURVEYOR	DANIEL GEEVES

PROJECT	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE TINDAL						
TITLE	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED DECEMBER 2024 RUNWAY 14 - SHEET 1 OF 9						
DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
520002	EST09759	DRG	UU	TDL	002	C	

LEGEND

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

DECLARED DISTANCES FOR RUNWAY 32	
TAKE OFF RUN AVAILABLE (TORA)	3352m (10997')
TAKE OFF DISTANCE AVAILABLE (TODA)	3412m (11194') 2.70%
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	3352m (10997')
LANDING DISTANCE AVAILABLE (LDA)	3352m (10997')
SUPPLEMENTARY TAKE OFF DISTANCE AVAILABLE (STODA)	3155m (10351') 1.6%, 3255m (10679') 1.9%, 3282m (10767') 2.0%, 3328m (10918') 2.2%, 3385m (11105') 2.5%

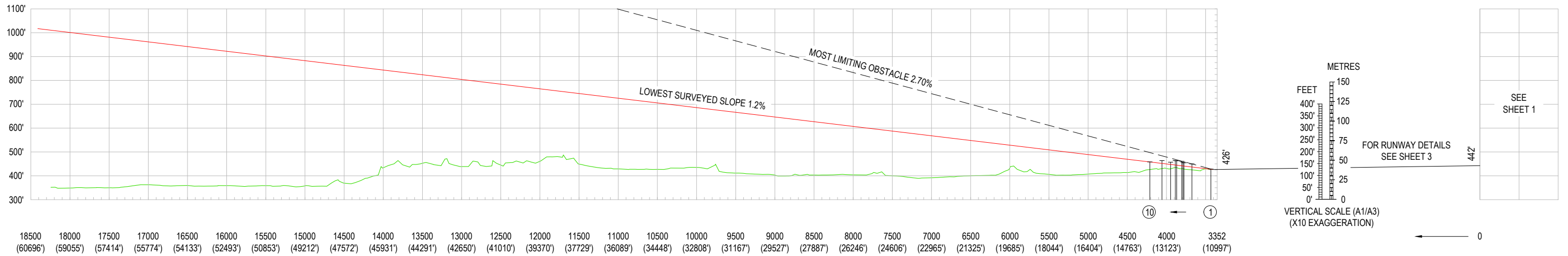
NOTES

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- AERIAL SURVEY COMPLETED OCTOBER 2023.
GROUND SURVEY CHECKS AND VERIFICATION MAY 2024.

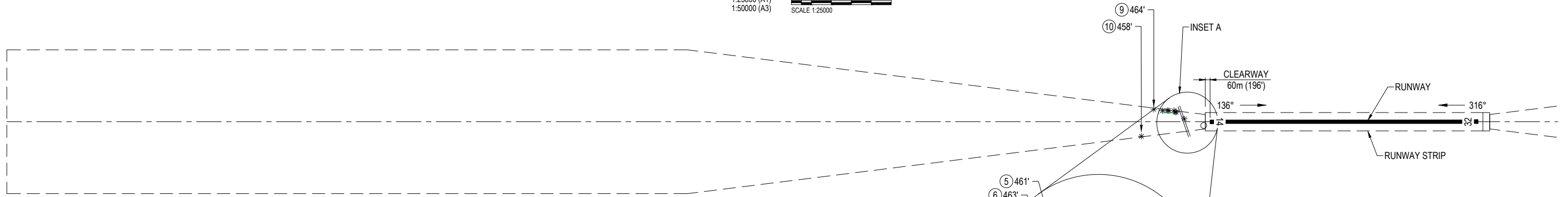
LEGEND

- OBSTRUCTIONS AND OBSTACLES**
- ① OBJECT 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
 - FOREST AREAS PENETRATING LOWEST SURVEYED SLOPE



RUNWAY 32

1:25000 (A1)
1:50000 (A3)
SCALE 1:25000



INSET A

1:7500 (A1)
1:15000 (A3)
ALL VEGETATION IN THIS AREA PENETRATES LOWEST SURVEYED SLOPE OF 1.2%

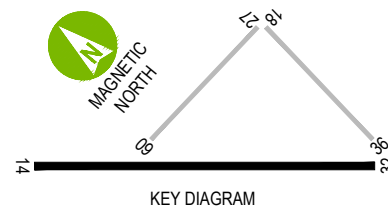
RUNWAY STRIP: 3472m (11391') x 230m (754')
RUNWAY: 3352m (10997') x 45m (147') SEALED

RUNWAY 32 SURVEY HAS BEEN ASSESSED BASED ON THE FOLLOWING "CODE 4" TAKE-OFF PARAMETERS:
LENGTH OF INNER EDGE - 180m
RATE OF DIVERGENCE (EACH SIDE) - 12.5%
FINAL WIDTH - 1800m
OVERALL LENGTH - 15000m

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
DANIEL GEEVES
REGISTERED SURVEYOR
aurecon

06/12/2024
DATE



www.aurecongroup.com



REV	DATE	REVISION DETAILS	APPROVED	SCALE	SIZE	FOR ISSUE	PROJECT
A	08.10.24	FOR REVIEW	DG	AS SHOWN	A1/A3	NOT FOR CONSTRUCTION	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE TINDAL
B	25.10.24	FOR ISSUE	DG				
C	06.12.24	FOR ISSUE - RWS WIDTH AMENDMENT	DG				

DRAWN	APPROVED	DATE	TITLE
MH	<i>Daniel Geeves</i>	06/12/2024	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED DECEMBER 2024 RUNWAY 32 - SHEET 2 OF 9

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
520002	EST09759	DRG	UU	TDL	003	C	

AERODROME OBSTACLE CHART - ICAO TYPE A
(OPERATING LIMITATIONS) DECEMBER 2024, COMPILED BY
AURECON

TO BE READ IN CONJUNCTION WITH CURRENT NOTAMS

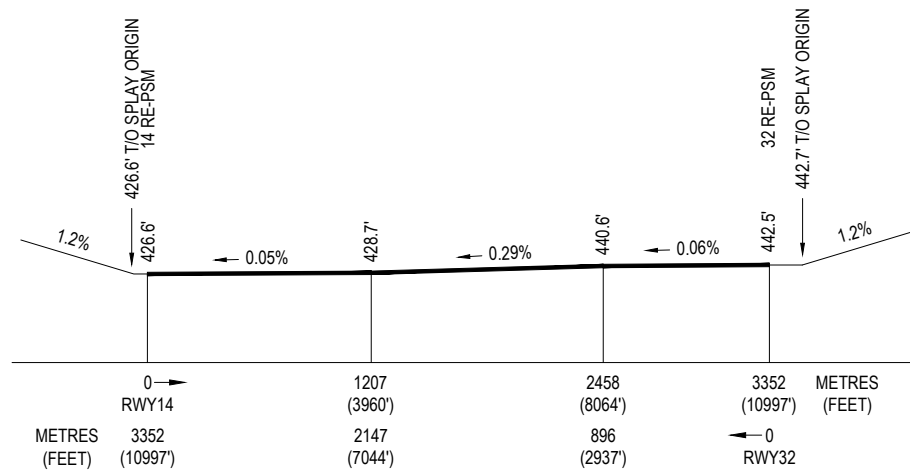
THE ORIGIN OF THE TAKE OFF SURFACE IS LOCATED AT THE END OF THE CLEARWAY
DISTANCES COMMENCE FROM THE START OF THE TAKE-OFF RUNWAY (SOT)

DATUM

AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA (GDA2020) ZONE 53
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



14/32 RWY LONGITUDINAL SECTION
NOT TO SCALE

RWY 14 TAKE OFF																				
REPSM AT START OF TORA (REPSM 14)												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)
DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
-14.5080306	-14°	30'	28.91"	132.3651489	132°	21'	54.536"	216008.45	8394450.15	130.0	426.6	136°	08'	26"	3352	10997	3497	11473	134.9	442.7

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)	LEFT/RIGHT	%
DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)												
1	-14.532384	-14°	31"	56.58"	132.386956	132°	23"	13.04"	218391.19	8391781.19	136.4	447.5	ANTENNA	3575.7	11731.4	0.1	0.2	L	1.87
2	-14.533325	-14°	31"	59.96"	132.387086	132°	23"	13.50"	218406.37	8391677.22	138.1	453.2	ANTENNA	3663.3	12018.8	57.8	189.7	R	1.93
3	-14.532995	-14°	31"	58.78"	132.387665	132°	23"	15.59"	218468.40	8391714.42	137.3	450.4	LOCALISER	3676.9	12063.3	13.2	43.2	L	1.31
4	-14.537617	-14°	32"	15.42"	132.389572	132°	23"	22.46"	218679.93	8391205.13	147.2	483.0	TREES	4197.4	13770.9	168.1	551.5	R	1.75
5	-14.536489	-14°	32"	11.36"	132.391134	132°	23"	28.08"	218846.93	8391331.90	148.1	485.8	TREES	4214.0	13825.5	40.8	133.8	L	1.83
6	-14.537377	-14°	32"	14.55"	132.390240	132°	23"	24.86"	218751.61	8391232.54	148.7	488.0	TREES	4224.6	13860.4	96.4	316.3	R	1.90
7	-14.537144	-14°	32"	13.71"	132.390970	132°	23"	27.49"	218830.00	8391259.25	149.5	490.5	TREES	4256.9	13966.2	20.2	66.2	R	1.92
8	-14.537229	-14°	32"	14.02"	132.392139	132°	23"	31.69"	218956.17	8391251.27	149.8	491.5	TREES	4346.8	14261.3	68.6	225.0	L	1.75
9	-14.536781	-14°	32"	12.41"	132.393267	132°	23"	35.76"	219077.26	8391302.28	151.9	498.4	TREES	4389.4	14400.9	192.8	632.6	L	1.90
10	-14.539600	-14°	32"	22.56"	132.391456	132°	23"	29.24"	218885.56	8390987.91	152.7	500.9	TREES	4496.2	14751.3	159.4	522.8	R	1.78
11	-14.540635	-14°	32"	26.28"	132.392472	132°	23"	32.90"	218996.46	8390874.57	153.9	505.1	TREES	4654.5	15270.7	152.1	499.1	R	1.64
12	-14.540699	-14°	32"	26.51"	132.393134	132°	23"	35.28"	219067.17	8390868.37	154.2	505.8	TREES	4706.7	15441.3	103.0	337.8	R	1.59
13	-14.541631	-14°	32"	29.87"	132.392504	132°	23"	33.01"	219001.12	8390764.44	156.5	513.4	TREES	4739.7	15550.2	221.9	728.1	R	1.73
14	-14.540956	-14°	32"	27.44"	132.395863	132°	23"	45.10"	219362.46	8390843.26	157.8	517.6	TREES	4921.4	16146.4	99.9	327.8	L	1.60
15	-14.543242	-14°	32"	35.67"	132.393995	132°	23"	38.38"	219163.90	8390587.89	157.0	515.0	TREES	4979.7	16337.5	218.1	715.5	R	1.49
16	-14.540911	-14°	32"	27.27"	132.397922	132°	23"	52.51"	219584.42	8390850.80	157.9	518.0	TREES	5063.5	16612.7	270.4	887.2	L	1.47
17	-14.542818	-14°	32"	34.14"	132.395971	132°	23"	45.49"	219376.44	8390637.24	159.4	522.8	TREES	5084.3	16680.9	26.8	87.8	R	1.54
18	-14.544745	-14°	32"	41.08"	132.395343	132°	23"	43.23"	219311.21	8390423.19	163.4	536.0	TREES	5200.5	17062.0	217.9	714.8	R	1.67
19	-14.543025	-14°	32"	34.89"	132.400004	132°	24"	00.01"	219811.63	8390619.30	162.9	534.6	TREES	5387.4	17675.1	285.7	937.5	L	1.48

RWY 32 TAKE OFF																				
REPSM AT START OF TORA (REPSM 32)												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)
DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
-14.5308625	-14°	31'	51.105"	132.3855929	132°	23'	08.135"	218242.25	8391947.95	134.9	442.5	316°	08'	26"	3352	10997	3412	11194	130.0	426.6

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)	LEFT/RIGHT	%
DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)												
1	-14.507765	-14°	30"	27.95"	132.364333	132°	21"	51.59"	215920.10	8394478.54	130.5	428.0	BOLLARD	3432.2	11260.6	47.0	154.1	L	2.16
2	-14.505618	-14°	30"	20.22"	132.363439	132°	21"	48.37"	215820.91	8394715.07	137.1	449.8	TREE	3674.6	12055.7	36.5	119.8	R	2.70
3	-14.504428	-14°	30"	15.93"	132.363408	132°	21"	48.26"	215816.09	8394846.83	138.5	454.3	TREES	3776.0	12388.6	120.6	395.7	R	2.32
4	-14.504333	-14°	30"	15.59"	132.363337	132°	21"	48.01"	215808.33	8394857.28	139.5	457.5	TREES	3789.0	12431.1	121.8	399.5	R	2.50
5	-14.504132	-14°	30"	14.87"	132.363358	132°	21"	48.08"	215810.31	8394879.49	140.5	461.0	TREES	3804.2	12481.1	138.0	452.9	R	2.67
6	-14.503693	-14°	30"	13.29"	132.362967	132°	21"	46.68"	215767.57	8394927.63	141.1	463.0	TREES	3868.6	12692.1	138.2	453.4	R	2.43
7	-14.503561	-14°	30"	12.81"	132.362874	132°	21"	46.34"	215757.43	8394942.12	141.5	464.3	TREES	3886.1	12749.8	140.3	460.3	R	2.42
8	-14.503158	-14°	30"	11.36"	132.362486	132°	21"	44.94"	215714.98	8394986.26	139.3	457.1	TREES	3947.3	12950.4	138.0	452.8	R	1.74
9	-14.502306	-14°	30"	08.30"	132.361942	132°	21"	42.99"	215655.31	8395079.93	141.4	463.8	TREES	4056.8	13309.8	155.9	511.4	R	1.76
10	-14.503261	-14°	30"	11.73"	132.358636	132°	21"	31.08"	215299.91	8394970.05	139.7	458.2	TREE	4211.5	13817.1	182.2	597.8	L	1.21

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REGISTERED SURVEYOR
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DATE



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SCALE	SIZE
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CHECKED	GH

FOR ISSUE	APPROVED
NOT FOR CONSTRUCTION	<i>[Signature]</i> DANIEL GEEVES
DATE	06/12/2024

PROJECT	TITLE	DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE TINDAL	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED DECEMBER 2024 RUNWAY 14/32 - SHEET 3 OF 9	520002	EST09759	DRG	UU	TDL	004	C	

LEGEND

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

DECLARED DISTANCES FOR EMERGENCY RUNWAY 09 (TWY R)

TAKE OFF RUN AVAILABLE (TORA)	1522m (4993')
TAKE OFF DISTANCE AVAILABLE (TODA)	1582m (5190') REFER NOTE BELOW
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	1522m (4993')
LANDING DISTANCE AVAILABLE (LDA)	1522m (4993')
SUPPLEMENTARY TAKE OFF DISTANCE AVAILABLE (STODA)	1047m (3435') 1.9%, 1136m (3727') 2.0%, 1289m (4429') 2.2%, 1384m (4540') 2.5%, 1436m (4711') 3.3%, 1474m (4835') 5.0%

NOTE:
AN UNCONTROLLED MOVING OBJECT IS
LOCATED IN THE CLEARWAY, THEREFORE
THE TODA GRADIENT CANNOT BE PUBLISHED

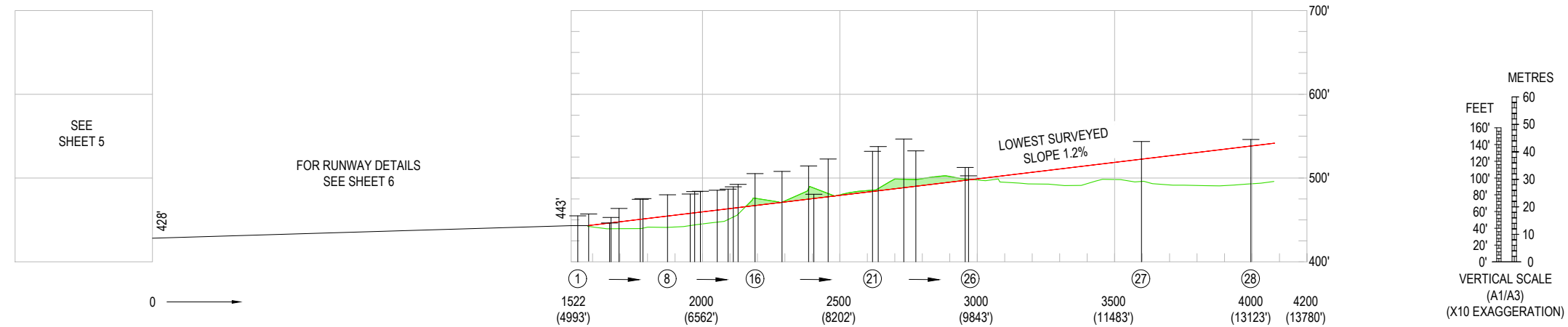
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EMAIL: AIS.AF@DEFENCE.GOV.AU
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- MAGNETIC VARIATION 2° 46' E (JULY 2024)
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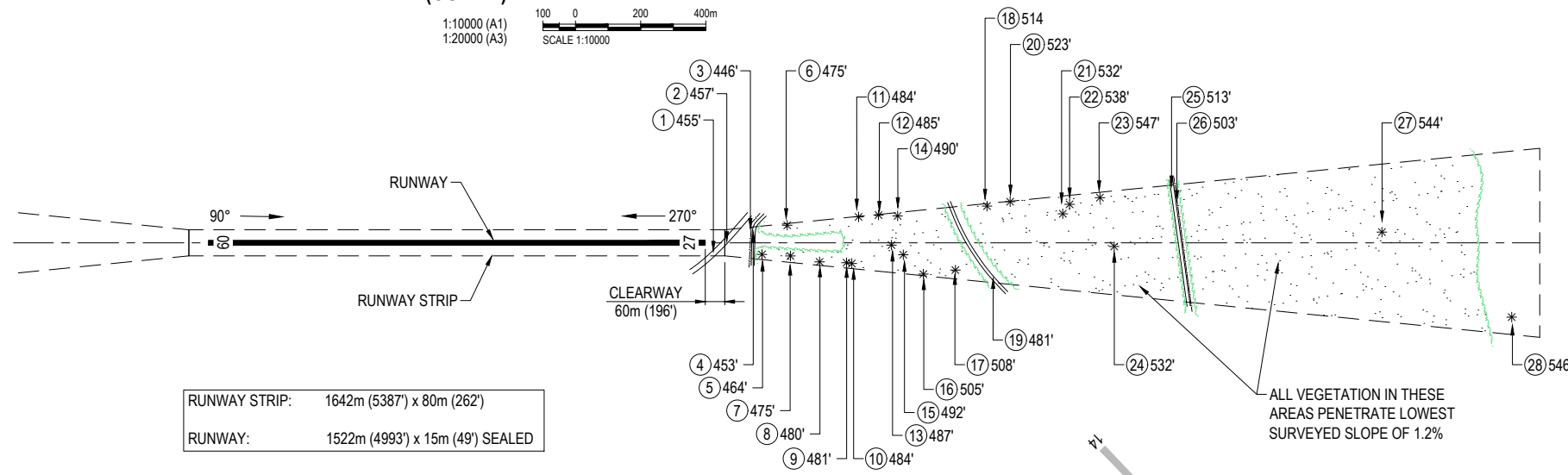
LEGEND

- OBSTRUCTIONS AND OBSTACLES**
- ① OBJECT 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
 - - - FOREST AREAS PENETRATING LOWEST SURVEYED SLOPE



**EMERGENCY RUNWAY 09
TWY R (CODE 2)**

1:10000 (A1)
1:20000 (A3)



RUNWAY STRIP:	1642m (5387') x 80m (262')
RUNWAY:	1522m (4993') x 15m (49') SEALED

EMERGENCY RUNWAY 09 (TWY R) SURVEY HAS BEEN ASSESSED
BASED ON THE FOLLOWING "CODE 2" TAKE-OFF PARAMETERS:
LENGTH OF INNER EDGE - 80m
RATE OF DIVERGENCE (EACH SIDE) - 10%
FINAL WIDTH - 580m
OVERALL LENGTH - 2500m

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
06/12/2024
DATE



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REV	DATE	REVISION DETAILS	APPROVED
A	08.10.24	FOR REVIEW	DG
B	25.10.24	FOR ISSUE	DG
C	06.12.24	FOR ISSUE - RWS WIDTH AMENDMENT	DG

SCALE	SIZE
AS SHOWN	A1/A3
DRAWN	
MH	
SURVEYED	
KI/AD/WOOLPERT	
CHECKED	
GH	

FOR ISSUE	APPROVED
NOT FOR CONSTRUCTION	<i>[Signature]</i>
	DANIEL GEEVES

PROJECT	TITLE	DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE TINDAL	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED DECEMBER 2024 EMERGENCY RUNWAY 09 (TWY R) - SHEET 4 OF 9	520002	EST09759	DRG	UU	TDL	005	C	

AERODROME OBSTACLE CHART - ICAO TYPE A
(OPERATING LIMITATIONS) DECEMBER 2024, COMPILED BY
AURECON

TO BE READ IN CONJUNCTION WITH CURRENT NOTAMS

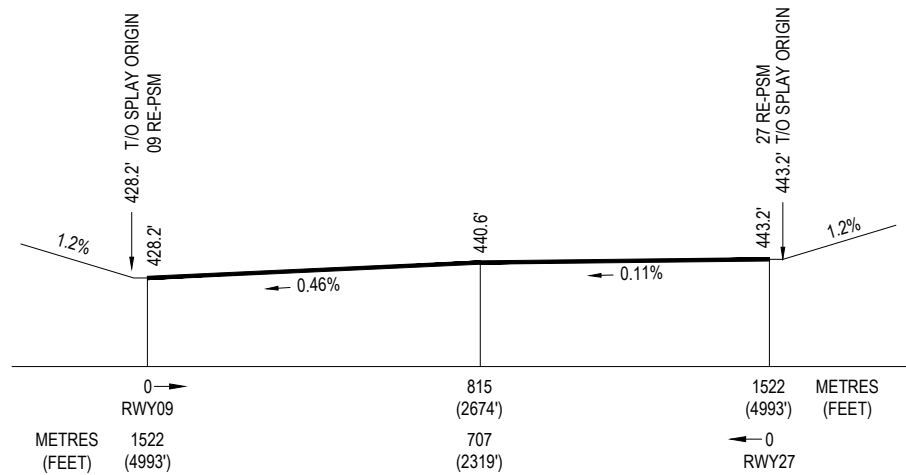
THE ORIGIN OF THE TAKE OFF SURFACE IS LOCATED AT THE END OF THE CLEARWAY
DISTANCES COMMENCE FROM THE START OF THE TAKE-OFF RUNWAY (SOT)

DATUM

AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA (GDA2020) ZONE 53
THE VERTICAL DATUM BEING AHD.

DEFINITIONS

- RE-PSM: RUNWAY END PERMANENT SURVEY MARK
- LENGTH OF INNER EDGE 80m
- RATE OF DIVERGENCE OF SPLAY (EACH SIDE) 10%
- FINAL WIDTH 580m
- OVERALL LENGTH 2500m



09/27 RWY LONGITUDINAL SECTION
NOT TO SCALE

RWY 09 TAKE OFF																					
REPSM AT START OF TORA (REPSM 09)													RUNWAY MAGNETIC BEARING			TORA		TODA		ELEVATION AT T.O. ORIGIN	
REF No	GEOGRAPHIC								MGA		ELEVATION		(DEG)	(MIN)	(SEC)	(m)	(Ft)	(m)	(Ft)		
	LAT				LONG				EASTING	NORTHING	(m)	(Ft)									
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
	-14.5142960	-14°	30'	51.466"	132.3739912	132°	22'	26.369"	216970.06	8393767.53	130.5	428.2	89°	38'	40"	1522	4993	1582	5190	135.1	443.2
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)	LEFT/RIGHT		%	
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
1	-14.515195	-14°	30"	54.70"	132.388318	132°	23"	17.94"	218516.27	8393685.78	138.6	454.9	MOVING	1486.1	4875.8	33.7	110.6	R	-		
2	-14.514856	-14°	30"	53.48"	132.388701	132°	23"	19.32"	218557.14	8393723.69	139.3	457.1	MOVING	1589.4	5214.4	4.6	15.0	R	112.18		
3	-14.514562	-14°	30"	52.42"	132.389420	132°	23"	21.91"	218634.28	8393757.10	136.0	446.4	FENCE	1662.8	5455.3	40.3	132.2	L	1.21		
4	-14.514559	-14°	30"	52.41"	132.389470	132°	23"	22.09"	218639.66	8393757.56	138.1	453.0	MOVING	1668.1	5472.9	40.9	134.3	L	3.50		
5	-14.515260	-14°	30"	54.93"	132.389708	132°	23"	22.94"	218666.24	8393680.21	141.3	463.7	TREES	1697.1	5567.8	35.5	116.6	R	5.49		
6	-14.514483	-14°	30"	52.13"	132.390460	132°	23"	25.65"	218746.33	8393767.22	144.7	474.6	TREES	1774.4	5821.6	53.8	176.6	L	5.00		
7	-14.515336	-14°	30"	55.20"	132.390513	132°	23"	25.84"	218753.13	8393672.87	144.9	475.4	TREES	1784.1	5853.3	40.2	131.9	R	4.89		
8	-14.515534	-14°	30"	55.92"	132.391335	132°	23"	28.80"	218842.01	8393651.90	146.3	480.1	TREES	1873.5	6146.7	58.4	191.8	R	3.87		
9	-14.515588	-14°	30"	56.11"	132.392099	132°	23"	31.55"	218924.47	8393646.86	146.6	480.9	TREES	1956.0	6417.4	61.0	200.1	R	3.08		
10	-14.515616	-14°	30"	56.21"	132.392249	132°	23"	32.09"	218940.75	8393643.95	147.5	483.8	TREES	1972.4	6471.1	63.4	207.9	R	3.18		
11	-14.514334	-14°	30"	51.60"	132.392496	132°	23"	32.98"	218965.76	8393786.23	147.6	484.2	TREES	1993.0	6538.8	79.5	260.9	L	3.05		
12	-14.514304	-14°	30"	51.49"	132.393067	132°	23"	35.03"	219027.24	8393790.17	148.0	485.4	TREES	2054.3	6739.9	85.3	279.9	L	2.73		
13	-14.515153	-14°	30"	54.55"	132.393399	132°	23"	36.23"	219064.14	8393696.63	148.4	486.8	TREES	2094.0	6870.2	7.0	23.0	R	2.60		
14	-14.514352	-14°	30"	51.66"	132.393607	132°	23"	36.98"	219085.58	8393785.51	149.2	489.6	TREES	2112.8	6931.6	82.4	270.5	L	2.67		
15	-14.515434	-14°	30"	55.56"	132.393721	132°	23"	37.39"	219099.29	8393665.87	150.1	492.4	TREES	2130.1	6988.5	36.7	120.3	R	2.74		
16	-14.515993	-14°	30"	57.57"	132.394270	132°	23"	39.37"	219159.21	8393604.75	154.0	505.3	TREES	2191.8	7191.0	95.9	314.6	R	3.11		
17	-14.515919	-14°	30"	57.30"	132.395185	132°	23"	42.66"	219257.79	8393614.02	154.8	508.0	TREES	2290.0	7513.2	83.6	274.3	R	2.79		
18	-14.514183	-14°	30"	51.05"	132.396158	132°	23"	46.17"	219360.53	8393807.40	156.8	514.5	TERRAIN/TREES	2386.7	7830.5	112.7	369.7	L	2.70		
19	-14.516199	-14°	30"	58.31"	132.396248	132°	23"	46.49"	219372.73	8393584.38	146.5	480.6	MOVING	2405.7	7892.8	109.7	360.0	R	1.39		
20	-14.514089	-14°	30"	50.72"	132.396821	132°	23"	48.55"	219431.90	8393818.62	159.3	522.7	TREES	2457.7	8063.3	126.1	413.6	L	2.77		
21	-14.514484	-14°	30"	52.14"	132.398303	132°	23"	53.89"	219592.23	8393776.75	162.1	531.9	TREES	2619.1	8593.0	89.1	292.4	L	2.61		
22	-14.514231	-14°	30"	51.23"	132.398507	132°	23"	54.62"	219613.89	8393805.02	163.8	537.6	TREES	2639.9	8661.1	118.0	387.3	L	2.72		
23	-14.514080	-14°	30"	50.68"	132.399378	132°	23"	57.76"	219707.61	8393822.78	166.6	546.6	TERRAIN/TREES	2733.0	8966.5	138.6	454.8	L	2.74		
24	-14.515450	-14°	30"	55.62"	132.399725	132°	23"	59.00"	219746.77	8393671.48	162.3	532.5	TREES	2776.7	9110.0	11.3	37.1	R	2.28		
25	-14.513826	-14°	30"	49.77"	132.401462	132°	24"	05.26"	219932.09	8393853.47	156.3	512.6	MOVING	2956.3	9699.1	176.1	577.9	L	1.54		
26	-14.514258	-14°	30"	51.32"	132.401555	132°	24"	05.59"	219942.67	8393805.77	153.2	502.7	FENCE	2968.3	9738.6	128.8	422.6	L	1.31		
27	-14.515362	-14°	30"	55.30"	132.407351	132°	24"	26.46"	220569.02	8393690.66	165.7	543.6	TREES	3597.5	11802.9	32.9	108.0	L	1.52		
28	-14.517866	-14°	31"	04.31"	132.410937	132°	24"	39.37"	220958.97	8393417.79	166.4	546.0	TREES	3995.4	13108.2	227.8	747.3	R	1.30		

RWY 27 TAKE OFF																					
REPSM AT START OF TORA (REPSM 27)													RUNWAY MAGNETIC BEARING			TORA		TODA		ELEVATION AT T.O. ORIGIN	
REF No	GEOGRAPHIC								MGA		ELEVATION		(DEG)	(MIN)	(SEC)	(m)	(Ft)	(m)	(Ft)		
	LAT				LONG				EASTING	NORTHING	(m)	(Ft)									
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
	-14.5148735	-14°	30'	53.547"	132.3881079	132°	23'	17.189"	218493.21	8393721.06	135.1	443.2	269°	38'	41"	1522	4993	1582	5190	130.5	428.2
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)	LEFT/RIGHT		%	
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
1	-14.513934	-14°	30"	50.16"	132.368219	132°	22"	05.58"	216347.08	8393800.44	137.7	451.7	WINDSOCK	2146.3	7041.6	13.9	45.6	R	1.27		
2	-14.512777	-14°	30"	45.99"	132.365244	132°	21"	54.87"	216024.77	8393924.79	158.9	521.2	TREE	2472.0	8110.4	128.3	420.9	R	3.19		
3	-14.513074	-14°	30"	47.06"	132.365137	132°	21"	54.49"	216013.59	8393891.84	151.0	495.4	LIGHT POLE	2482.2	8143.7	95.0	311.8	R	2.28		
4	-14.512988	-14°	30"	46.75"	132.363398	132°	21"	48.23"	215825.98	8393899.18	156.4	513.2	ANTENNA	2669.8	8759.4	96.6	317.1	R	2.38		

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

06/12/2024
DATE



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REV	DATE	REVISION DETAILS	APPROVED
A	08.10.24	FOR REVIEW	DG
B	25.10.24	FOR ISSUE	DG
C	06.12.24	FOR ISSUE - RWS WIDTH AMENDMENT	DG

SCALE	SIZE
AS SHOWN	A1/A3
DRAWN	MH
SURVEYED	KI/AD/WOOLPERT
CHECKED	GH

FOR ISSUE
NOT FOR CONSTRUCTION

APPROVED
[Signature]
DATE
06/12/2024
DANIEL GEEVES

PROJECT	TITLE	DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE TINDAL	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED DECEMBER 2024 RUNWAY 09/27 - SHEET 6 OF 9	520002	EST09759	DRG	UU	TDL	007	C	

DEPARTMENT OF DEFENCE

SECURITY AND ESTATE GROUP

AERODROME OBSTACLE CHART - ICAO TYPE A
(OPERATING LIMITATIONS) DECEMBER 2024, COMPILED BY
AURECON

TO BE READ IN CONJUNCTION WITH CURRENT NOTAMS

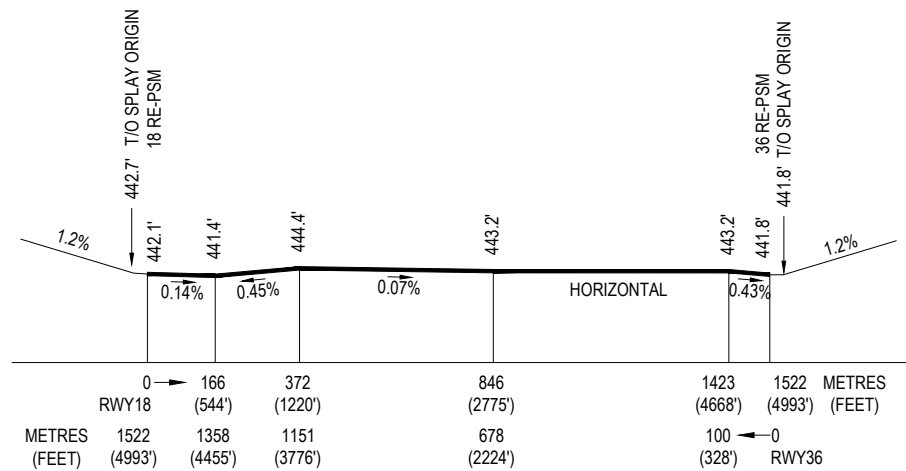
THE ORIGIN OF THE TAKE OFF SURFACE IS LOCATED AT THE END OF THE CLEARWAY
DISTANCES COMMENCE FROM THE START OF THE TAKE-OFF RUNWAY (SOT)

DATUM

AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA (GDA2020) ZONE 53
THE VERTICAL DATUM BEING AHD.

DEFINITIONS

- RE-PSM: RUNWAY END PERMANENT SURVEY MARK
- LENGTH OF INNER EDGE 80m
- RATE OF DIVERGENCE OF SPLAY (EACH SIDE) 10%
- FINAL WIDTH 580m
- OVERALL LENGTH 2500m



18/36 RWY LONGITUDINAL SECTION
NOT TO SCALE

RWY 18 TAKE OFF																					
REPSM AT START OF TORA (REPSM 18)																					
REF No	GEOGRAPHIC								MGA		ELEVATION		RUNWAY MAGNETIC BEARING			TORA		TODA		ELEVATION AT T.O. ORIGIN	
	LAT				LONG				EASTING	NORTHING	(m)	(ft)	(DEG)	(MIN)	(SEC)	(m)	(ft)	(m)	(ft)	(m)	(ft)
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
	-14.5154523	-14°	30'	55.629"	132.3886297	132°	23'	19.067"	218550.21	8393657.62	134.8	442.1	182°	38'	24"	1522	4993	1582	5190	134.7	441.8

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)	LEFT/RIGHT		%
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)												
1	-14.534065	-14°	32"	02.63"	132.386007	132°	23"	09.62"	218290.94	8391593.91	145.6	477.6	TREES	2076.9	6813.8	87.7	287.7	R	2.21	
2	-14.534509	-14°	32"	04.23"	132.386013	132°	23"	09.64"	218292.21	8391544.77	148.5	487.2	TREES	2125.7	6974.1	82.4	270.2	R	2.55	
3	-14.534551	-14°	32"	04.38"	132.385926	132°	23"	09.33"	218282.84	8391540.05	148.9	488.5	TREES	2131.2	6992.0	91.3	299.6	R	2.60	
4	-14.535777	-14°	32"	08.79"	132.386777	132°	23"	12.39"	218376.16	8391405.39	151.4	496.6	TREES	2257.6	7406.8	12.8	41.9	L	2.48	
5	-14.536199	-14°	32"	10.31"	132.386838	132°	23"	12.61"	218383.23	8391358.78	152.0	498.7	TREES	2303.4	7557.1	23.7	77.6	L	2.41	
6	-14.536906	-14°	32"	12.86"	132.387315	132°	23"	14.33"	218435.63	8391281.10	153.4	503.4	TREES	2376.5	7796.8	82.3	269.9	L	2.37	
7	-14.539792	-14°	32"	23.25"	132.385852	132°	23"	09.06"	218281.54	8390959.80	153.9	504.9	TREES	2709.2	8888.5	44.7	146.5	R	1.71	
8	-14.542080	-14°	32"	31.48"	132.387344	132°	23"	14.43"	218445.32	8390708.31	154.3	506.1	TREES	2946.1	9665.8	139.3	456.9	L	1.44	

RWY 36 TAKE OFF																					
REPSM AT START OF TORA (REPSM 36)																					
REF No	GEOGRAPHIC								MGA		ELEVATION		RUNWAY MAGNETIC BEARING			TORA		TODA		ELEVATION AT T.O. ORIGIN	
	LAT				LONG				EASTING	NORTHING	(m)	(ft)	(DEG)	(MIN)	(SEC)	(m)	(ft)	(m)	(ft)	(m)	(ft)
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
	-14.5291560	-14°	31'	44.962"	132.3873003	132°	23'	14.281"	218424.21	8392138.96	134.7	441.8	2°	38'	24"	1522	4993	1582	5190	134.9	442.7

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)	LEFT/RIGHT		%
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)												
1	-14.515195	-14°	30"	54.70"	132.388318	132°	23"	17.94"	218516.27	8393685.78	138.6	454.9	MOVING	1487.3	4879.5	35.9	117.7	L	-	
2	-14.514856	-14°	30"	53.48"	132.388701	132°	23"	19.32"	218557.18	8393723.73	139.3	457.1	MOVING	1589.4	5214.6	4.6	15.2	R	111.18	
3	-14.514712	-14°	30"	52.96"	132.389014	132°	23"	20.45"	218590.76	8393740.10	135.3	444.0	POST	1608.5	5277.2	33.6	110.1	R	1.56	
4	-14.514163	-14°	30"	50.98"	132.388344	132°	23"	18.03"	218517.81	8393800.01	136.5	447.7	FENCE	1662.1	5453.2	44.0	144.5	L	1.93	
5	-14.514137	-14°	30"	50.89"	132.388369	132°	23"	18.12"	218520.45	8393802.96	138.5	454.3	MOVING	1665.3	5463.5	41.7	136.6	L	4.29	
6	-14.513791	-14°	30"	49.64"	132.388438	132°	23"	18.37"	218527.43	8393841.29	141.4	464.1	TREES	1704.0	5590.6	37.9	124.2	L	5.38	
7	-14.513463	-14°	30"	48.46"	132.388371	132°	23"	18.13"	218519.75	8393877.53	143.7	471.3	TREES	1739.5	5707.0	48.5	159.2	L	5.58	
8	-14.512988	-14°	30"	46.75"	132.388523	132°	23"	18.68"	218535.60	8393930.30	145.0	475.6	TREES	1793.4	5883.7	37.1	121.7	L	4.77	
9	-14.512887	-14°	30"	46.39"	132.389223	132°	23"	21.20"	218610.95	8393942.38	145.6	477.7	TREES	1811.6	5943.6	37.0	121.3	R	4.67	
10	-14.512619	-14°	30"	45.42"	132.388321	132°	23"	17.95"	218513.35	8393970.87	147.6	484.3	TREES	1831.9	6010.3	62.6	205.4	L	5.09	
11	-14.512227	-14°	30"	44.01"	132.388298	132°	23"	17.87"	218510.40	8394014.25	148.8	488.1	TREES	1874.9	6151.2	69.1	226.8	L	4.74	
12	-14.511440	-14°	30"	41.18"	132.388538	132°	23"	18.73"	218535.27	8394101.66	149.4	490.3	TREES	1964.0	6443.6	51.6	169.2	L	3.81	
13	-14.510671	-14°	30"	38.41"	132.389556	132°	23"	22.40"	218644.02	8394188.05	141.4	463.9	BUILDING	2059.0	6755.4	49.6	162.7	R	1.36	
14	-14.510584	-14°	30"	38.10"	132.389688	132°	23"	22.87"	218658.15	8394197.88	141.4	464.0	BUILDING	2070.0	6791.3	62.9	206.2	R	1.34	
15	-14.509947	-14°	30"	35.80"	132.389301	132°	23"	21.48"	218615.67	8394267.90	150.5	493.7	TREES	2136.2	7008.6	14.8	48.4	R	2.81	
16	-14.509196	-14°	30"	33.10"	132.388602	132°	23"	18.96"	218539.26	8394350.16	150.7	494.3	TREES	2211.8	7256.7	68.1	223.6	L	2.50	
17	-14.509255	-14°	30"	33.31"	132.390131	132°	23"	24.47"	218704.29	8394345.56	151.0	495.6	TREES	2220.9	7286.4	96.6	316.9	R	2.53	
18	-14.509015	-14°	30"	32.45"	132.389234	132°	23"	21.24"	218607.20	8394371.00	151.6	497.3	TREES	2238.2	7343.2	2.2	7.2	L	2.54	
19	-14.508192	-14°	30"	29.49"	132.389949	132°	23"	23.81"	218683.27	8394462.94	152.0	498.7	TREES	2336.1	7664.3	66.0	216.4	R	2.27	
20	-14.507925	-14°	30"	28.52"	132.388453	132°	23"	18.43"	218521.67	8394490.69	153.1	502.3	TREES	2350.3	7711.1	97.3	319.1	L	2.37	
21	-14.507321	-14°	30"	26.35"	132.390228	132°	23"	24.81"	218712.26	8394559.78	156.3	512.6	TREES	2434.9	7988.5	86.8	284.9	R	2.50	
22	-14.506983	-14°	30"	25.13"	132.388884	132°	23"	19.98"	218566.90	8394595.49	157.0	515.0	TREES	2458.5	8065.8	60.9	199.8	L	2.52	
23	-14.506079	-14°	30"	21.88"	132.390458	132°	23"	25.64"	218735.48	8394697.56	152.7	500.8	TANK	2574.1	8445.1	98.6	323.4	R	1.79	
24	-14.502312	-14°	30"	08.32"	132.389006	132°	23"	20.42"	218574.20	8395112.70	157.9	518.2	TREES	2974.2	9757.9	96.4	316.1	L	1.65	
25	-14.501247	-14°	30"	04.48"	132.390771	132°	23"	26.77"	218763.15	8395232.81	158.8	521.0	TREES	3109.5	10201.6	81.9	268.8	R	1.56	
26	-14.499187	-14°	29"	57.07"	132.391939	132°	23"	30.98"	218886.57	8395462.32	160.8	527.6	TREES	3348.2	10985.0	185.9	609.8	R	1.47	
27	-14.497555	-14°	29"	51.19"	132.389136	132°	23"	20.88"	218582.19	8395639.52	160.6	527.0	TREES	3499.6	11481.6	131.9	432.9	L	1.34	
28	-14.496281	-14°	29"	46.61"	132.391629	132°	23"	29.86"	218849.44	8395783.60	161.8	530.9	TREES	3665.2	12024.8	122.3	401.4	R	1.29	
29	-14.496033	-14°	29"	45.71"	132.392842	132°	23"	34.23"	218979.99	8395812.59	162.9	534.6	TREES	3704.8	12154.9	250.0	820.1	R	1.32	
30	-14.493874	-14°	29"	37.94"	132.388923	132°	23"	20.12"	218554.59	8396046.77	166.6	546.6	TREES	3902.9	12804.8	193.1	633.5	L	1.36	
31	-14.492878	-14°	29"	34.36"	132.391948	132°	23"	31.01"	218879.54	8396160.68	195.6	641.8	RADAR	4043.2	13265.1	121.2	397.5	R	2.47	

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

06/12/2024
DATE



www.aurecongroup.com

CLIENT



Australian Government
Department of Defence
Security and Estate Group

REV	DATE	REVISION DETAILS	APPROVED
A	08.10.24	FOR REVIEW	DG
B	25.10.24	FOR ISSUE	DG
C	06.12.24	FOR ISSUE - RWS WIDTH AMENDMENT	DG

SCALE	SIZE
AS SHOWN	A1/A3
DRAWN	MH
SURVEYED	KI/AD/WOOLPERT
CHECKED	GH

FOR ISSUE	NOT FOR CONSTRUCTION
	DATE 06/12/2024
DANIEL GEEVES	

PROJECT	TITLE	DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE TINDAL	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED DECEMBER 2024 RUNWAY 18/36 - SHEET 9 OF 9	520002	EST09759	DRG	UU	TDL	010	C	