

DARWIN INTERNATIONAL AIRPORT
DEPARTMENT OF DEFENCE

METHOD OF WORKING PLAN

YPDN 25/05

AERODROME: RAAF Base Darwin / Darwin International Airport (YPDN)

PROJECT DESCRIPTION:

DATES:

Approval of MOWP 01 Sep 2025

Revision Date
22 Sep 2025

Commencement of works 23 SEP 2025

Completion of works 25 OCT 2025

Expiry of MOWP 15 NOV 2025

CHANGE REGISTER

This Change Register has been developed in accordance with Part 139 (Aerodromes) Manual of Standards 2019, to provide guidance to the reader regarding changes between the below two MOWP document revisions:

- Previous revision - MOWP YPDN 25/05 V1.0
- Current revision - MOWP YPDN 25/05 V1.1

| Ref. | Change | MOWP Section | MOWP V1.0 | MOWP V1.1 |
|----------|---|--|--|---|
| 1 | New MOWP from Template | All MOWP sections | Works information for NAPMP1005 Yr6 works. | Works information for NAPMP1005 Yr6 works. |
| 2 | Commencement times and update to NOTAM text to reflect 24H temporary displacement during for Stages 4A and 4B | 2.4 Works Sequence 3.8 Stage 4A 3.9 Stage 4B | Timings and NOTAM text now outdated | Commencement times and update to NOTAM text to reflect 24H temporary displacement during for Stages 4A and 4B |
| 3 | Updated Contractor contact details | 8.1 Works Organisation / Contractor 8.5 Contact Details | Reference was to Works Manager | Updated to Safety Manager |
| 4 | Updated contact details | 10 Annexure A Distribution Lists | Reference to previous WSO company | Updated to Tarmac Aerodrome Operations contact for WSO Added additional FH contact to distribution list |
| 5 | Updated drawings | 11 Annexure B Drawings | Stage 4A and 4B drawings superseded | Updated Stage 4A drawing <ul style="list-style-type: none"> - Consolidate one row of U/S cones in between RWY 18/36 and TWY C - Removed one runway cross Updated Stage 4B drawing <ul style="list-style-type: none"> - Added 2 x runways crosses - Updated access route |

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1 METHOD OF WORKING PLAN (MOWP)

1.1 Purpose of the MOWP

CASA Part 139 MOS – Aerodromes requires operators of a certified aerodrome to make all necessary arrangements to ensure that aerodrome works do not create a hazard to aircraft or cause confusion to pilots. Furthermore, an aerodrome operator must not carry out aerodrome works without a MOWP unless the works are of a time-limited or emergency nature, or the works do not require restrictions to aircraft operations.

To achieve the requirements of CASA Part 139 MOS – Aerodromes, this MOWP has been prepared in accordance with the requirements of CASA Part 139 MOS – Aerodromes, Chapter 16 – Method of Working Plans (CASA, 2019) and ensures that all works conducted are in accordance with Civil Aviation Safety Regulations and CASA Part 139.

2 WORKS INFORMATION

2.1 Purpose of the Works

The works are a part of the Australian Defence Department, National Airfield Pavement Maintenance Program, Urgent Airfield Maintenance (UAM) 2020-2026, Year 6 works. Works are for the maintenance of existing airfield pavements, with any renewal of existing pavement products on a like for like basis.

2.2 Description of the Works

Each works activity associated with the UAM has been separated into defined stages, with the associated impacts on aircraft operations and required works zones identified below.

| Stage | Works Activity | Impact on aircraft operations | Works Zone(s) |
|----------------|---|---|----------------|
| Stage 1 | Rubberised Bitumen Bandage (RBB) RBB areas require 10-30 minutes without traffic. | Time Limited Works. Workers and equipment to vacate on 30 min prior notice as advised via NOTAM. | Not applicable |
| Stage 2 | Surface Treatment Works (PME) PME areas require 2 to 12 hours without traffic | Movement area closures as advised via NOTAM. | A, B, C, D |
| Stage 3 | Asphalt Repair Works Asphalt areas require 8 hours without traffic | Movement area closures as advised via NOTAM. | A, E |
| Stage 4 | Concrete Repair Works Concrete areas require 8 hours without traffic | Movement area closures as advised via NOTAM. | E, F, G, H, I |
| Stage 5 | Paint Marking Works Paint marking areas require 30 minutes without traffic. | Time Limited Works. Workers and equipment to vacate on 30 min prior notice as advised via NOTAM. | Not applicable |

Note: For any time-limited works requiring more than 10 minutes to return the movement area to a safe condition, a NOTAM must be issued at least 48 hours prior.

2.3 Work Zones

The areas of works, referred to as Works Zones in this MOWP, are described below. Supporting drawings illustrating the Works Zones, associated aircraft restrictions, standard vehicle routes, and related operational requirements are contained in **Appendix B**.

| Work Zone | Airfield Locations |
|-----------|--|
| A | Runway 18/36, Taxiway C1, Taxiway N |
| B | Quick Reaction Alert Facility (QRAF), Taxiway W & Taxiway X |
| C | OLAs, Taxiway R, Taxiway S, Taxiway T |
| D | Taxiway C1, Taxiway C2, Taxiway M, MHS Apron |
| E | Taxiway A1, Taxiway C3, Taxiway W & Taxiway X |
| F | Runway 11/29 (RWY 11 DTHR), Taxiway A1, Taxiway W & Taxiway X |
| G | Runway 11/29 (RWY 29 DTHR), Taxiway A6 |
| H | Bomber Replenishment Apron (BRA), Fighter Replenishment Apron (FRA), Taxiway A5, Taxiway A6, Taxiway D |
| I | Taxiway A1, Taxiway W1 |

2.4 Works Sequence

The following work sequence is based on the plan only. **The actual date and time of commencement will be advised by a NOTAM, to be issued not less than 48 hours before work commences.** Due to unforeseen circumstances including weather delays some dates may be extended.

| Activity | Stage | Start | End | Hours of Activity (LOC) | Work Zone |
|----------|-------|-------------------|-------------------|---|-----------|
| RBB | 1 | 23 September 2025 | 11 October 2025 | 0700 to 1700 | N/A |
| PME | 2A | 27 September 2025 | 27 September 2025 | 0700 to 1700 | A |
| PME | 2B | 27 September 2025 | 28 September 2025 | 0700 to 1700 | B |
| PME | 2C | 30 September 2025 | 4 October 2025 | 0700 to 1700 | C |
| PME | 2D | 4 October 2025 | 4 October 2025 | 0700 to 1700 | D |
| Asphalt | 3A | 27 September 2025 | 27 September 2025 | 0700 to 1700 | A |
| Asphalt | 3B | 27 September 2025 | 27 September 2025 | 0700 to 1700 | E |
| Concrete | 4A | 5 October 2025 | 12 October 2025 | 1400 (5 October 2025) to 1700 (12 October 2025) | F |

| | | | | | |
|---------------|----|-------------------|-----------------|--|-----|
| Concrete | 4B | 14 October 2025 | 15 October 2025 | 0800 (14 October 2025) to 1700 (15 October 2025) | G |
| Concrete | 4C | 16 October 2025 | 23 October 2025 | 0700 to 1700 | H |
| Concrete | 4D | 23 September | 24 September | 2100 to 0500 | I |
| Paint Marking | 5 | 27 September 2025 | 12 October 2025 | 0700 to 1700 | N/A |

3 RESTRICTIONS TO AIRCRAFT OPERATIONS (RTAO)

3.1 Stage 1

| Stage 1 | |
|--------------------------------|---|
| Description of Works | Rubberised Bitumen Bandage (RBB) |
| Scheduled Start Date | 23/09/2025 |
| Scheduled End Date | 11/10/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | <p>Workers and equipment located within:</p> <ul style="list-style-type: none"> Runway 11/29 Runway 18/36 <p>Workers and equipment will vacate for aircraft movements</p> |
| Taxiways | <p>Workers and equipment located within:</p> <ul style="list-style-type: none"> Taxiway Alpha Taxiway Bravo Taxiway Charlie Taxiway Delta Taxiway Echo Taxiway Golf Taxiway Hotel Taxiway Sierra Taxiway Tango Taxiway Whiskey Taxiway X-Ray <p>Workers and equipment will vacate for aircraft movements</p> |
| Aircraft Type Restrictions | Not applicable |

| | |
|---------|---|
| NOTAM | (A) YPDN (B) 2509222130 (C) 2510110730 (D) 2130/0730 TUE - SUN WAE ON ##### DUE WIP 30 MIN PN REQUIRED for WAE to VACATE ### for ACFT OPS CTC WORKS SAFETY OFFICER CS 'WORKS 1' VIA FREQ 119.55 OR TEL: ##### REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 1 |
| Remarks | Daily works areas to be confirmed via NOTAM with 48 hours notice |
| Drawing | Not applicable |

3.2 Stage 2A

| Stage 2A | |
|--------------------------------|---|
| Description of Works | Surface Treatment Works (PME) |
| Scheduled Start Date | 27/09/2025 |
| Scheduled End Date | 27/09/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | Runway 18/36 CLOSED |
| Taxiways | Taxiway Charlie 1 south of MHS Apron CLOSED |
| Aircraft Type Restrictions | Not applicable |
| NOTAM | (A) YPDN (B) 2509262130 (C) 2509270730 (D) RWY 18/36 CLSD DUE WIP TWY C1 STH OF MHS APRON CLSD REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 2A |
| Remarks | Access to compass swing bay to be maintained via TWY C4 |

| | |
|---------|-------------|
| Drawing | Work Zone A |
|---------|-------------|

3.3 Stage 2B

| Stage 2B | |
|--------------------------------|--|
| Description of Works | Surface Treatment Works (PME) |
| Scheduled Start Date | 27/09/2025 |
| Scheduled End Date | 28/09/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | Not applicable |
| Taxiways | Taxiway Whiskey CLOSED Taxiway X-Ray CLOSED |
| Aircraft Type Restrictions | Not applicable |
| NOTAM | (A) YPDN (B) 2509262130 (C) 2509280730 (D) 2130/0730 DAILY TWY W1, W2 X1 AND X2 CLSD DUE WIP REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 2B |
| Remarks | Quick Reaction Alert Facility (QRAF) CLOSED |
| Drawing | Work Zone B |

3.4 Stage 2C

| Stage 2C | |
|--------------------------------|---|
| Description of Works | Surface Treatment Works (PME) |
| Scheduled Start Date | 30/09/2025 |
| Scheduled End Date | 4/10/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | Not applicable |
| Taxiways | Taxiway Romeo CLOSED Taxiway Sierra CLOSED Taxiway Tango CLOSED |
| Aircraft Type Restrictions | Not applicable |
| NOTAM | (A) YPDN (B) 2509292130 (C) 2510040730 (D) 2130/0730 –TUE - SUN TWY R, TWY S AND TWY T CLSD DUE WIP REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 2C |
| Remarks | Eastern and Western OLA Complex CLOSED |
| Drawing | Work Zone C |

3.5 Stage 2D

| Stage 2D | |
|--------------------------------|---|
| Description of Works | Surface Treatment Works (PME) |
| Scheduled Start Date | 4/10/2025 |
| Scheduled End Date | 4/10/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | Not applicable |
| Taxiways | Taxiway Charlie 1 CLOSED Taxiway Charlie 2 south of Taxiway Lima CLOSED Taxiway Mike CLOSED |
| Aircraft Type Restrictions | Not applicable |
| NOTAM | (A) YPDN (B) 2510032130 (C) 2510040730 (D) TWY C1, TWY C2 STH OF TWY L CLSD DUE WIP TWY M CLSD REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 2D |
| Remarks | MHS APRON CLOSED |
| Drawing | Work Zone D |

3.6 Stage 3A

| Stage 3A | |
|--------------------------------|---|
| Description of Works | Asphalt Repair Works |
| Scheduled Start Date | 27/09/2025 |
| Scheduled End Date | 27/09/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | Runway 18/36 CLOSED |
| Taxiways | Taxiway Charlie 1 south of MHS Apron CLOSED |
| Aircraft Type Restrictions | Not applicable |
| NOTAM | (A) YPDN (B) 2509262130 (C) 2509270730 (D) RWY 18/36 CLSD DUE WIP TWY C1 STH OF MHS APRON CLSD TWY N CLSD REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 3A |
| Remarks | Not applicable |
| Drawing | Work Zone A |

3.7 Stage 3B

| Stage 3B | |
|--------------------------------|---|
| Description of Works | Asphalt Repair Works |
| Scheduled Start Date | 27/09/2025 |
| Scheduled End Date | 27/09/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | Not applicable |
| Taxiways | Taxiway Alpha 1 between Runway 11/29 and Taxiway Golf CLOSED Taxiway Charlie 3 CLOSED Taxiway Whiskey CLOSED Taxiway X-Ray CLOSED |
| Aircraft Type Restrictions | Not applicable |
| NOTAM | (A) YPDN (B) 2509262130 (C) 2509270730 (D) TWY A1 WEST OF TWY G CLSD DUE WIP TWY C3 CLSD TWY W1, W2, X1 AND X2 CLSD REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 3B |
| Remarks | Quick Reaction Alert Facility (QRAF) CLOSED |
| Drawing | Work Zone E |

3.8 Stage 4A

| Stage 4A | |
|--------------------------------|--|
| Description of Works | Concrete Repair Works |
| Scheduled Start Date | 5/10/2025 |
| Scheduled End Date | 12/10/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | 765m of the western end of Runway 11/29 CLOSED Runway 11 threshold displaced 824m |
| Taxiways | Taxiway Alpha 1 CLOSED Taxiway Whiskey CLOSED Taxiway X-Ray CLOSED |
| Aircraft Type Restrictions | Not applicable |

| | | | | | | | | | | | | | | | | |
|---------|---|--------------------|-------------|-------------|------|-----|----|-------------|--------------------|-------------|-------------|----|-------------|-------------------|-------------|-------------|
| NOTAM 1 | <p>(A) YPDN (B) 2510050430 (C) 2510120730 (D) - THR RWY 11 DISPLACED 824M DUE WIP RWY 11/29 OPR LEN REDUCED BY 765M WESTERN END DISPLACED THR MARKED BY GREEN THR LGT EACH SIDE OF RWY HN AND RWY THR IDENT LGT HJ, PILOT MNT OBST 15FT AGL ON RWY 2919M FM START OF TORA RWY 29</p> <p>DECLARED DISTANCE AND GRADIENT CHANGES</p> <table><tr><td>RWY</td><td>TORA</td><td>TODA</td><td>ASDA</td><td>LDA</td></tr><tr><td>11</td><td>2589 (8494)</td><td>2679 (8789) (2.14)</td><td>2589 (8494)</td><td>2530 (8300)</td></tr><tr><td>29</td><td>2589 (8494)</td><td>2679 (8789) (2.0)</td><td>2589 (8494)</td><td>2589 (8494)</td></tr></table> <p>SUPPLEMENTARY TKOF DIST: RWY 11- 2308 (7572) (1.6) 2524 (8281) (1.9) RWY 29- 2587 (8487) (1.6) 2662 (8733) (1.9) RWY 11 TKOF TO COMMENCE AT RED LGTS HN AND RED AND WHITE CONES HJ RWY 29 DIST TO RUN MARKERS U/S WHEN 11 THR DISPLACED RWY 29 TWY D, E1, E2, B1 AND B2 TKOF RUN AVBL SIGNS U/S WHEN 11 THR DISPLACED REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 4A</p> | RWY | TORA | TODA | ASDA | LDA | 11 | 2589 (8494) | 2679 (8789) (2.14) | 2589 (8494) | 2530 (8300) | 29 | 2589 (8494) | 2679 (8789) (2.0) | 2589 (8494) | 2589 (8494) |
| RWY | TORA | TODA | ASDA | LDA | | | | | | | | | | | | |
| 11 | 2589 (8494) | 2679 (8789) (2.14) | 2589 (8494) | 2530 (8300) | | | | | | | | | | | | |
| 29 | 2589 (8494) | 2679 (8789) (2.0) | 2589 (8494) | 2589 (8494) | | | | | | | | | | | | |
| NOTAM 2 | <p>PAPI RWY 11 U/S WHEN THR DISPLACED RWY 11 TEMPO PAPI AVBL 3.0 DEG 65FT RWY THR IDENT LGTS AND TEMPO PAPI PILOT MNT REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 4A</p> | | | | | | | | | | | | | | | |
| NOTAM 3 | <p>TWY A1, W1, W2, X1 AND X2 CLSD DUE DISPLACED THR RWY 11 REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 4A</p> | | | | | | | | | | | | | | | |
| Remarks | <p>RWY 11/29 remains Code 4 Runway (Instrument/Non-Precision) RWY 11/29 WESTERN AAS NOT AVBL WHEN 11 THR DISPLACED Quick Reaction Alert Facility (QRAF) CLOSED</p> | | | | | | | | | | | | | | | |
| Drawing | <p>Work Zone F</p> | | | | | | | | | | | | | | | |

3.9 Stage 4B

| Stage 4B | |
|--------------------------------|--|
| Description of Works | Concrete Repair Works |
| Scheduled Start Date | 14/10/2025 |
| Scheduled End Date | 15/10/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | 823m of the eastern end of runway 11/29 CLOSED Runway 29 threshold displaced 883m |
| Taxiways | Taxiway Alpha 6 CLOSED |
| Aircraft Type Restrictions | Not applicable |

| | | | | | | | | | | | | | | | | |
|---------|--|-------------|--------------------|-------------|------|-----|----|-------------|-------------|--------------------|-------------|----|-------------|-------------|-------------------|-------------|
| NOTAM 1 | <p>(A) YPDN (B) 2510132230 (C) 2510150730 (D) - THR RWY 29 DISPLACED 883M DUE WIP RWY 11/29 OPR LEN REDUCED BY 823M EASTERN END DISPLACED THR MARKED BY GREEN THR LGT EACH SIDE OF RWY HN AND RWY THR IDENT LGT HJ, PILOT MNT OBST 16 FT AGL ON RWY 2861M FM START OF TORA RWY 11</p> <p>DECLARED DISTANCE AND GRADIENT CHANGES</p> <table><tr><td>RWY</td><td>TORA</td><td>TODA</td><td>ASDA</td><td>LDA</td></tr><tr><td>11</td><td>2531 (8303)</td><td>2621 (8599)</td><td>(2.14) 2531 (8303)</td><td>2531 (8303)</td></tr><tr><td>29</td><td>2531 (8303)</td><td>2621 (8599)</td><td>(1.2) 2531 (8303)</td><td>2471 (8107)</td></tr></table> <p>SUPPLEMENTARY TKOF DIST: RWY 11 2563 (8409) (1.6) 2608 (8556) (1.9) RWY 29 TKOF TO COMMENCE AT RED LGTS HN AND RED AND WHITE CONES HJ RWY 11 DIST TO RUN MARKERS U/S WHEN 29 THR DISPLACED RWY 11 TWY B1, B2, E1, E2, C3 AND C4 TKOF RUN AVBL SIGNS U/S WHEN 29 THR DISPLACED ACTIVE LAND AND HOLD SHORT OPS (LAHSO) NOT AVBL WHEN THR DISPLACED 883M REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 4B</p> | RWY | TORA | TODA | ASDA | LDA | 11 | 2531 (8303) | 2621 (8599) | (2.14) 2531 (8303) | 2531 (8303) | 29 | 2531 (8303) | 2621 (8599) | (1.2) 2531 (8303) | 2471 (8107) |
| RWY | TORA | TODA | ASDA | LDA | | | | | | | | | | | | |
| 11 | 2531 (8303) | 2621 (8599) | (2.14) 2531 (8303) | 2531 (8303) | | | | | | | | | | | | |
| 29 | 2531 (8303) | 2621 (8599) | (1.2) 2531 (8303) | 2471 (8107) | | | | | | | | | | | | |
| NOTAM 2 | <p>PAPI RWY 29 U/S WHEN THR DISPLACED RWY 29 TEMPO PAPI AVBL 3.0 DEG 60FT RWY THR IDENT LIGHTS AND TEMPO PAPI PILOT MNT REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 4B</p> | | | | | | | | | | | | | | | |
| NOTAM 3 | <p>TWY A6 CLSD DUE DISPLACED THR RWY 29 REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 4B</p> | | | | | | | | | | | | | | | |
| Remarks | <p>RWY 11/29 remains Code 4 Runway (Instrument/Non-Precision). Refer Airservices NOTAM published notifying ILS GP 'IDN' 333.2 RWY 29 U/S DUE DTHR RWY 11/29 EASTERN AAS NOT AVBL WHEN 29 THR DISPLACED TWY A6 AVBL BETWEEN TWY D AND FRA FOR MIL ACFT</p> | | | | | | | | | | | | | | | |

| | |
|---------|-------------|
| Drawing | Work Zone G |
|---------|-------------|

3.10 Stage 4C

| Stage 4C | |
|--------------------------------|---|
| Description of Works | Concrete Repair Works |
| Scheduled Start Date | 16/10/2025 |
| Scheduled End Date | 23/10/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | Not applicable |
| Taxiways | Taxiway Alpha 5 CLOSED Taxiway Alpha 6 CLOSED Taxiway Delta CLOSED Taxiway Tango CLOSED |
| Aircraft Type Restrictions | Not applicable |
| NOTAM | (A) YPDN (B) 2510152130 (C) 2510230730 (D) 2130/0730 –TUE - SUN TWY A5, A6 AND D CLSD DUE WIP REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 4C |
| Remarks | Bomber Replenishment Apron (BRA) and Fighter Replenishment Apron (FRA) CLOSED |
| Drawing | Work Zone H |

3.1 Stage 4D

| Stage 4D | |
|----------------------|-----------------------|
| Description of Works | Concrete Repair Works |

| | |
|---------------------------------------|--|
| Scheduled Start Date | 23/09/2025 |
| Scheduled End Date | 24/09/2025 |
| Restrictions: Manoeuvring Area | |
| Runways | Aircraft to execute anticlockwise 180 degree turns at Threshold RWY 11 for full length of take-off |
| Taxiways | Taxiway Alpha 1 CLOSED Taxiway Whiskey 1 CLOSED |
| Aircraft Type Restrictions | Not applicable |
| NOTAM 1 | (A) YPDN (B) 2509231130 (C) 2509231930 (D) - TWY A1 AND W1 CLSD DUE WIP REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 4D |
| NOTAM 2 | (A) YPDN (B) 2509231130 (C) 2509231930 (D) - ACFT TO EXECUTE ANTI-CLOCKWISE 180 DEG TURNS AT THR RWY 11 FOR FULL LENGTH TKOF REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 4D |
| Remarks | Not applicable |
| Drawing | Work Zone I |

3.2 Stage 5

| | |
|---------------------------------------|---------------------|
| Stage 5 | |
| Description of Works | Paint Marking Works |
| Scheduled Start Date | 27/09/2025 |
| Scheduled End Date | 12/10/2025 |
| Restrictions: Manoeuvring Area | |

| | |
|----------------------------|---|
| Runways | Workers and equipment located within: <ul style="list-style-type: none"> Runway 18/36 Workers and equipment will vacate for aircraft movements |
| Taxiways | Workers and equipment located within: <ul style="list-style-type: none"> Taxiway Alpha 1 Taxiway Alpha 3 Taxiway Alpha 6 Taxiway Bravo 1 Taxiway Charlie 2 Taxiway Delta Taxiway Golf Taxiway Romeo Taxiway Whiskey 1 Workers and equipment will vacate for aircraft movements |
| Aircraft Type Restrictions | Not applicable |
| NOTAM | (A) YPDN (B) 2509262130 (C) 2510120730 (D) 2130/0730 –TUE - SUN WAE ON ##### DUE WIP 10 MIN PN REQUIRED for WAE to VACATE ### for ACFT OPS CTC WORKS SAFETY OFFICER CS 'WORKS 1' VIA FREQ 119.55 OR TEL: ##### REFER METHOD OF WORKING PLAN YPDN 25/05 STAGE 5 |
| Remarks | Daily works areas to be confirmed via NOTAM with 48 hours notice |
| Drawing | Not applicable |

4 DECLARED EMERGENCIES AND ADVERSE WEATHER

All work zones can only be conducted during normal visual meteorological conditions (VMC) and will be terminated during periods of reduced visibility in accordance with Darwin Airport's low visibility procedures.

The work sequence is to be managed in order to enable vacation of works site within 30 minutes and return to operational status.

ARFF vehicles responding to a declared emergency under emergency response conditions will have access to the works site as required.

Under the direction of Air Traffic Control (ATC), DIA Terminal and Airside Operations Officer (TAOO) or Base Aviation Safety Officer (BASO), the WSO is responsible for instructing the works contractor to vacate the work site in the event of a declared emergency.

The WSO is to remain in contact with ATC (during operational hours) and or monitor the Common Traffic Advisory Frequency (CTAF) on 133.1, when/if ATC is not active.

Weather conditions including thunderstorms will be monitored by the WSO via BOM and/or thunderstorm alerting software.

The WSO, in consultation with the Works Contractor, will advise ATC whether reinstatement of the manoeuvring area is possible or not possible.

Works will not be carried out during periods where Low Visibility Operations are declared. All stages could be adversely affected by wet weather and may result in delays or temporary stoppages of the works.

All works are to vacate the airfield when lightning is within 5 nautical miles of the aerodrome, WSO to direct the Works Contractor.

5 NOTAM

The ADG Airside Manager or approved delegate is responsible for approving and issuing the NOTAM for each stage of the works.

ADG are responsible for publishing any NOTAMs for works impacting the Joint User Area (JUA).

Defence are responsible for publishing any NOTAMs for works impacting the Defence areas.

DIA will confirm that the NOTAM has been raised for the relevant stage of the works prior to the commencement.

The NOTAM per Work Stage is described in the above section, **3 RESTRICTIONS TO AIRCRAFT OPERATIONS (RTAO)**.

The actual date and time of commencement will be advised by a NOTAM, to be issued not less than 48 hours before work commences.

6 PERSONNEL AND EQUIPMENT

6.1 General

The works are to take place on and in the vicinity of aircraft manoeuvring areas and the specific requirements of this MOWP and conditions contained within CASA 07/24 – Darwin Aerodrome (Relevant Activities in Obstacle Restriction Area – Runway 11/29), together with site instructions from the WSO must be strictly followed at all times.

While at the work site, all vehicles, plant and personnel must remain within the limits of the designated works area. All vehicles and plant not actually engaged in the works are to be parked clear of the works and movement area in an area nominated by the WSO.

The limits of the work areas are to be defined by row of orange road markers (non-reflective witches' hats) and orange lights at night in accordance with Part 139 MOS, across the runways or taxiways in accordance with the relevant NOTAM. The Works Organisation must not move beyond these lines.

Works are to comply with the Fulton Hogan Work Health and Safety Plan for the project, including all requirements for Personal Protective Equipment (PPE).

Smoking is not permitted airside or within any restricted areas of the aerodrome.

6.2 Control of Works Personnel, Security and Safety of Aircraft Operations

All personnel associated with the work are bound by any instructions issued by the WSO, who has the right to refuse access to persons likely, in their opinion, to compromise aircraft safety on the airfield.

Any breaches of aviation safety and aircraft safety occurrences (not detected by the WSO) must be reported to the WSO.

The WSO must initiate an immediate response in consultation with ATC and DIA TAOO.

6.3 Vehicles and Plant

Vehicles and plant used for these works will include various vehicles, trucks, and trailers; asphalt profiler and paver; and suction sweeper. All vehicles plant and equipment used for airside access are to be fitted with flashing beacons and use dipped headlights during nightworks. Vehicles and equipment used in these works are not to exceed the equipment maximum heights above ground level detailed in each Stage Drawing.

No movement of vehicles or plant is to take place outside the works areas or access routes without the consent of the WSO. Only vehicles and plant engaged in the work activities shall be permitted at the work site. Private vehicles will not be permitted at the airside work site.

At the end of each work period, all vehicles, plant, equipment, and material are moved clear of the works area and parked in the designated parking area.

Vehicles and self-propelled items of plant are to have vehicle warning lights as detailed in CASR MOS Part 139 Section 14.05: Airside vehicle lighting requirements.

The Works Contractor Vehicle Management Plan is outlined in the Contractor's Site Management Plan. All entry to the airfield will be under escort by WSO.

6.4 Critical and Sensitive Areas - CNS Equipment – Runway 29 impacts only

The Instrument Landing System (ILS) consists of the following equipment: Very High Frequency (VHF) Localiser, Ultra High Frequency (UHF) Glide Path and monitoring systems. Due to nature of the equipment, the ILS is sensitive to electromagnetic interference and/or presence of temporary structures or vehicles/equipment and must be protected against any potential interference.

ILS Glide Path will be required to be turned off during the duration of the RWY 29 displaced threshold.

Fulton Hogan are to liaise with RAAF ATC on switching off the ILS Glide Path in accordance with NOTAM timings and confirm the ILS Glide Path is switched off prior to the displacement of RWY 29

6.5 Access to the Works and Security

All personnel are to have on their person and visible at all times a valid security pass issued by the RAAF Base Darwin Pass Office in accordance with Darwin Base Instruction –Access Control.

Personnel are only permitted to move about the designated work areas and only using the designated access routes. Any person detected on the site outside these limits may be evicted from the site and denied return.

6.6 Visual Ground Aids

Markings, markers, and ground lighting are not to be installed, altered, or removed without the approval of the WSO. Any markings or markers that are required to be moved or removed due to works in progress must be advised to the DIA TAOO and reinstated prior to the completion of the works shift.

Any accidental damage to the markers must immediately be reported to the WSO and to the DIA TAOO.

6.7 Works Permits

6.7.1 Protection of Electrical Services

The Contractor must confirm the location of all underground services within the vicinity of the works to be undertaken. Any works on or near electrical cables must be referred to the DIA Technical Team Leader a minimum of 48 hours prior to commencement of works to arrange all necessary isolations or temporary connections.

6.7.2 Crane Permit

A permit must be obtained prior to erection of any crane on airport and/or use of equipment that will exceed the equipment maximum heights above ground level detailed in each Stage Drawing.

Applications for approval must be submitted via online form,

Crane Application

6.8 Other Restrictions

All loose material and equipment must be secured against movement in strong winds or aircraft propeller wash or jet blast.

Any damage to aerodrome facilities or property must be reported immediately to the WSO and the DIA TAOO.

Personnel and equipment may need to partially withdraw from a work area to avoid propeller wash or jet blast from a departing or passing aircraft. The WSO will direct the Works Contractor to vacate to a safe working distance before aircraft movement.

6.9 Environmental

6.9.1 Foreign Object Debris (FOD) Control

The Works Contractor is to ensure that aircraft pavements used or crossed during the works are kept clean and free of debris. Any debris is to be immediately removed by the Works Contractor to the satisfaction of the WSO.

All loose material and equipment are to be secured against movement in strong winds or aircraft blast. Measures shall be taken at all times for control of dust or other nuisance materials and the Works Contractor shall immediately respond to any direction by the DIA TAOO to eliminate any concerns. The Works Contractor is responsible for implementing appropriate control measures.

On completion of each work period where airfield movement areas are required to be returned to active use, the Works Contractor is to ensure the works area is made serviceable, including the removal of all FOD hazards, to the satisfaction of the WSO.

Prior to vacating the work site when returning a works area back to service, a joint inspection will occur inclusive of the TAOO and the WSO at the end of each shift. Following the joint written approval of the suitability of the works area for aircraft activity, the Works Contractor will vacate the work site.

7 AERODROME MARKERS, MARKINGS and LIGHTS – relevant to runway works

The works contractor shall mark, paint, and light the unserviceable areas of the airfield affected by the works in accordance with the requirements of CASA Part 139 MOS – Aerodromes and this will be reviewed by RAAF Base Darwin / Darwin International Airport.

The Works Contractor is responsible for deploying and removing all AGL, works limit markings (non-reflective orange witches' hats) and temporary runway end markers (red and white cones).

The works contractor is responsible for deploying and removing 36m high unserviceability markers (white crosses) for the temporary runway closures and displaced thresholds.

Aerodrome markers, markings, and lights (visual aids) associated with this MOWP are detailed in the following subsections. All markers are to be appropriately secured against jet blast and or high winds.

7.1 Unserviceability Markers– relevant to runway and taxiway works

Closed portions of the manoeuvring area will be marked by red and white unserviceability markers (refer to CASA Part 139 MOS Section 8.108) during the day, and red lights at night.

Unserviceability markers for the runway (white crosses) are recommended by CASA Part 139 MOS at international and frequent aircraft movement aerodromes. These will accompany the temporary runway threshold displacements for RWY 11-29 and partial runway closures of RWY 11-29.

7.2 Works Limit Markers– relevant to runway works and taxiway works

The limit of works is marked with Works limit markers – non-reflective orange witches' hats (and orange lights at night). The installation of the Works Limits markers is the responsibility of the Works Contractor. All personnel (and equipment) must remain within the designated works area, this includes when working in the runway strip.

A clearance from ATC when active or broadcast on CTAF when/if ATC is not active, to enter the runway is required to proceed past the limit of works markers and/or lights, this includes to access the portion of the runway between the limit of works and the red and white cones.

7.3 Lighting

All lighting within and directly leading into the closed portion of the manoeuvring area will be obscured or extinguished by the Works Contractor as instructed by the WSO. The contractor shall make sure not obscure or move any temporary runway or taxiway lighting associated with the works.

8 ADMINISTRATION

8.1 Works Organisation / Contractor

The works organisation is Fulton Hogan Industries P/L.

The Works Contractor Project Manager is Mick Lehmann and will be present on site during all work periods.

The Works Contractor Safety Manager is Joel Abuyen and is responsible on behalf of the Works Contractor for complying with the requirements of the MOWP.

The Works Contractor personnel contact details are included in section **8.5 Contact Details.**

8.2 Project Manager Contract Administrator (PMCA)

The Project Manager Contract Administrator is Raymond Kwan from Aurecon Beca JV.

The Assistant Project Manager Contract Administrator is Luke Leadbetter from Aurecon Beca JV who will be the main point of contact for the works.

The PMCA personnel contact details are included in section **8.5 Contact Details.**

8.3 Works Safety Officer

The nominated Works Safety Officers (WSOs) for these works will be from Tarmac Aerodrome Operations.

The Tarmac Aerodrome Operations lead WSO will be Jason Dechaineux (Mobile: 0429 467 481) and Tarmac Aerodrome Operations will be responsible for the operational safety of the works for RTS shifts, non-RTS shifts and outside of scheduled working hours.

The WSO contact details are included in section **8.5 Contact Details.**

The WSO is responsible for the operational safety of the works and carrying out WSO duties in accordance with the requirements CASA MOS Part 139 13.04 Works safety officer; and 15.04 Management and Control of Aerodrome Works, CASA 07/24 – Darwin Aerodrome (Relevant Activities in Obstacle Restriction Area – Runway 11/29) and this MOWP.

The WSO must be present on site at all times while work is in progress.

The WSO must maintain radio communications with Darwin SMC - V (Surface Movement Control) on 119.55 MHz when ATC is active in accordance with procedures agreed with RAAF ATC and monitor CTAF 133.1 when/if ATC not active.

The WSO must have a copy of this MOWP accessible at all times.

8.4 Base Aviation Safety Officer

The BASO will provide airside induction training to the personnel involved in carrying out any works on the manoeuvring areas, including competency check of WSOs involved in these works.

The BASO will be the main point of contact for any aviation safety issues during the Works.

The BASO for the works will be FLTLT Bevan Wall.

8.5 Contact Details

| RAAF Base Darwin – 13 Squadron | | |
|--|-------------------------------|--|
| CO 13 Squadron SADFO | WGCDR Lauren Guest | T: 08 8974 4474 M: 0408 485 621 E: Lauren.guest@defence.gov.au |
| Air Base Executive Officer | SQNLDR Craig Pinkney | M: 0407 615 214 E: craig.pinkney@defence.gov.au |
| Base Aviation Safety Officer | FLTLT Bevan Wall | M: 0448 571 782 E: dar.baso@defence.gov.au |
| Base Airfield Engineering Officer | Vacant | |
| RAAF ATC - 452 SQN DAR FLT | | |
| 452SQN DAR FLT CDR | SQNLDR James Lee | T: 08 7929 4671 M: 0408 892 476 E: 452sqndar.fltdr@defence.gov.au |
| 452SQN DAR FLT OPS CDR | SQNLDR Stephanie Gartshore | T: 08 7929 4673 (OPSCDR) M: 0408 809 864 E: 452sqndar.opscdr@defence.gov.au |
| ATC Duty Controller | Various | T: 08 7929 4816 (TWR SPVR) E: dar.atc@defence.gov.au |
| CFI | | |
| Director General Capital Facilities and Infrastructure | BRIG Matthew Quinn | E: matthew.quinn@defence.gov.au |
| Director – National Projects | GPCAPT Sunil Narayan | M: 0451 131 844 E: sunil.narayan@defence.gov.au |
| Project Director - National Airfield Projects | SQNLDR Rebecca Sweeney | E: rebecca.sweeney2@defence.gov.au |

| | | |
|--|------------------------|---|
| Senior Project Officer - National Airfields Projects | Stephen Harmer | E: stephen.harmer@defence.gov.au |
| DEIC | | |
| Base Infrastructure Officer | FLTLT David Champion | M: 0499 054 344 E: dar.bia@defence.gov.au |
| DEEP | | |
| Senior Civil Engineer – DEEP | FLTLT Bryce Chesterman | T: 02 6266 8207 E: adf.ces@defence.gov.au |
| Assistant Director Aerodrome Policy – DEEP | Anthony Wade | T: 08 7374 1538 E: Anthony.wade1@defence.gov.au |
| SDD | | |
| Regional Environment and Sustainability Officer | Katina Croft | M: 0409 883 566 E: Katina.croft@defence.gov.au |
| Base Manager – RAAF Base Darwin | Dean Santi | T: 08 7971 0234 M: 0456 212 605 E: dean.santi@defence.gov.au |
| Assistant Base Manager | Paul Gibbs | T: 08 8923 7296 E: paul.gibbs12@defence.gov.au |
| Darwin International Airport | | |
| Executive General Manager - Airports | Rob Porter | T: 08 8920 1832 E: rob.porter@adgnt.com.au |
| Head of Airport Operations | Melanie Cobbin | T: 0421 601 461 E: Melanie.cobbin@adgnt.com.au |
| Airside Manager | Van Nguyen | M: 0473 957 650 E: van.nguyen@adgnt.com.au |
| Aerodrome Safety & Standards Manager | George Cheriyan | M: 0419 864 223 E: george.cheriyen@adgnt.com.au |
| DIA Terminal and Airside Operations Officers | Various | M: 0402 088 145 E: dia.taoo@adgnt.com.au |
| Aurecon Beca JV (PMCA) | | |
| Project Manager | Raymond Kwan | M: 0478 765 952 E: raymond.kwan@aurecongroup.com |
| Assistant Project Manager | Luke Leadbetter | M: 0497 649 962 E: Luke.Leadbetter@aurecongroup.com |

| | | |
|--|------------------|--|
| Site Representative | Peter English | M: 0427 026 194 E: peter.english@beca.com |
| Contractor – Fulton Hogan | | |
| Project Manager | Mick Lehmann | M: 0429 013 962 E: Mick.lehmann@fultonhogan.com.au |
| Safety Manager | Joel Abuyen | M: 0429 009 542 E: Joel.abuyen@fultonhogan.com.au |
| Tarmac Aerodrome Operations (WSO) | | |
| Director | Jason Dechaineux | M: 0429 467 481 E: jason@taops.com.au |

8.6 Distribution

This MOWP is to be distributed to all of the persons and agencies listed in the Distribution List attached at **ANNEX A**.

9 AUTHORITY

9.1 Issue

This MOWP is issued in accordance with CASA Part 139 MOS – Aerodromes (CASA, 2019).

All work must be carried out in accordance with these documents and the specific requirements of this MOWP.

9.2 Variation

No variation to this MOWP (including the NOTAM text) is to take place without the prior approval of the signatories below.

Requests or proposals to vary the MOWP, as well as queries on its content or meaning, are to be directed to the RAAF Base Representative FLTLT Bevan Wall and DIA Representatives Van Nguyen or George Cheriyan.

9.3 Expiry

This MOWP will remain effective until Day Month Year unless extended by amendment.

9.4 Approval

Under the authority of the following signatures, this MOWP is approved for release.

| | |
|--|---|
| <div>Rob Porter</div> <div>EGM – Airports</div> <div>Airport Development Group</div> | <div>WGCDR Lauren Guest</div> <div>CO 13 Squadron</div> <div>RAAF Base Darwin</div> |
| <div>SQNLDR James Lee</div> <div>Flight Commander</div> <div>452 Squadron Darwin</div> | |

10 ANNEX A – DISTRIBUTION LISTS

| RAAF Base Darwin – 13 Squadron | | |
|---------------------------------------|----------------------------|--|
| CO 13 Squadron SADFO | WGCDR Lauren Guest | M: 0408 485 621 E: lauren.guest@defence.gov.au |
| XO 13SQN ASADFO | SQNLDR Craig Pinkney | M: 0407 615 214 E: craig.pinkney@defence.gov.au |
| Base Aviation Safety Officer | FLTLT Bevan Wall | M: 0448 571 782 E: dar.baso@defence.gov.au |
| Base Airfield Engineering Officer | Vacant | M: E: dar.baeo@defence.gov.au |
| RAAF ATC - 452 SQN DAR FLT | | |
| 452SQN DAR FLT CDR | SQNLDR James Lee | T: 08 7929 4671 M: 0408 892 476 E: 452sqndar.fltcdr@defence.gov.au |
| 452SQN DAR FLT OPS CDR | SQNLDR Stephanie Gartshore | T: 08 7929 4673 (OPSCDR) M: 0408 809 864 E: 452sqndar.opscdr@defence.gov.au |
| ATC Duty Controller | Various | T: 08 7929 4816 (TWR SPVR) E: dar.atc@defence.gov.au |
| SEG RAAF Base Darwin | | |
| Base Manager | Dean Santi | T: 08 7971 0234 M: 0456 212 605 E: dean.santi@defence.gov.au |
| Assistant Base Manager | Paul Gibbs | T: 08 8923 7296 E: paul.gibbs12@defence.gov.au |
| Environmental Officer | Katina Croft | T: 08 8983 6759 M: 0409 883 566 E: katina.croft@defence.gov.au |
| Darwin International Airport | | |
| EGM Airports | Rob Porter | M: 0417 048 295 E: Rob.Porter@adgnt.com.au |
| Head of Airport Operations | Melanie Cobbin | M: 0421 601 461 E: melanie.cobbin@adgnt.com.au |
| Airside Manager | Van Nguyen | M: 0473 957 650 E: van.nguyen@adgnt.com.au |
| Aerodrome Safety & Standards Manager | George Cheriyan | M: E: george.cheriyana@adgnt.com.au |
| Director of Projects | Takudzwa Charlie | M: E: Takudzwa.Charlie@adgnt.com.au |
| Head of Electrical | Ian Pask | M: 0402 088 149 E: ian.pask@adgnt.com.au |
| Environment Officer | Matthew Evans | M: E: matthew.evans@adgnt.com.au |
| Grounds Maintenance | Groundsman – Various | M: E: diaggroundsmaintenance@adgnt.com.au |
| Aurecon Beca Joint Venture | | |
| Project Manager | Raymond Kwan | M: 0478 765 952 E: raymond.kwan@aurecongroup.com |
| Assistant Project Manager | Luke Leadbetter | M: 0497 649 962 E: Luke.Leadbetter@aurecongroup.com |
| Site Representative | Peter English | M: 0427 026 194 |

| | | |
|--|------------------|--|
| | | E: peter.english@beca.com |
| Contractor – Fulton Hogan | | |
| Project & Site Manager | Mick Lehmann | M: 0429 013 962 E: Mick.Lehmann@fultonhogan.com.au |
| Safety Manager | Joel Abuyen | M: 0429 009 542 E: Joel.abuyen@fultonhogan.com.au |
| Works Safety Officers (WSO) – Tarmac Aerodrome Operations (WSO) | | |
| Director | Jason Dechaineux | M: 0429 467 481 E: jason@taops.com.au |

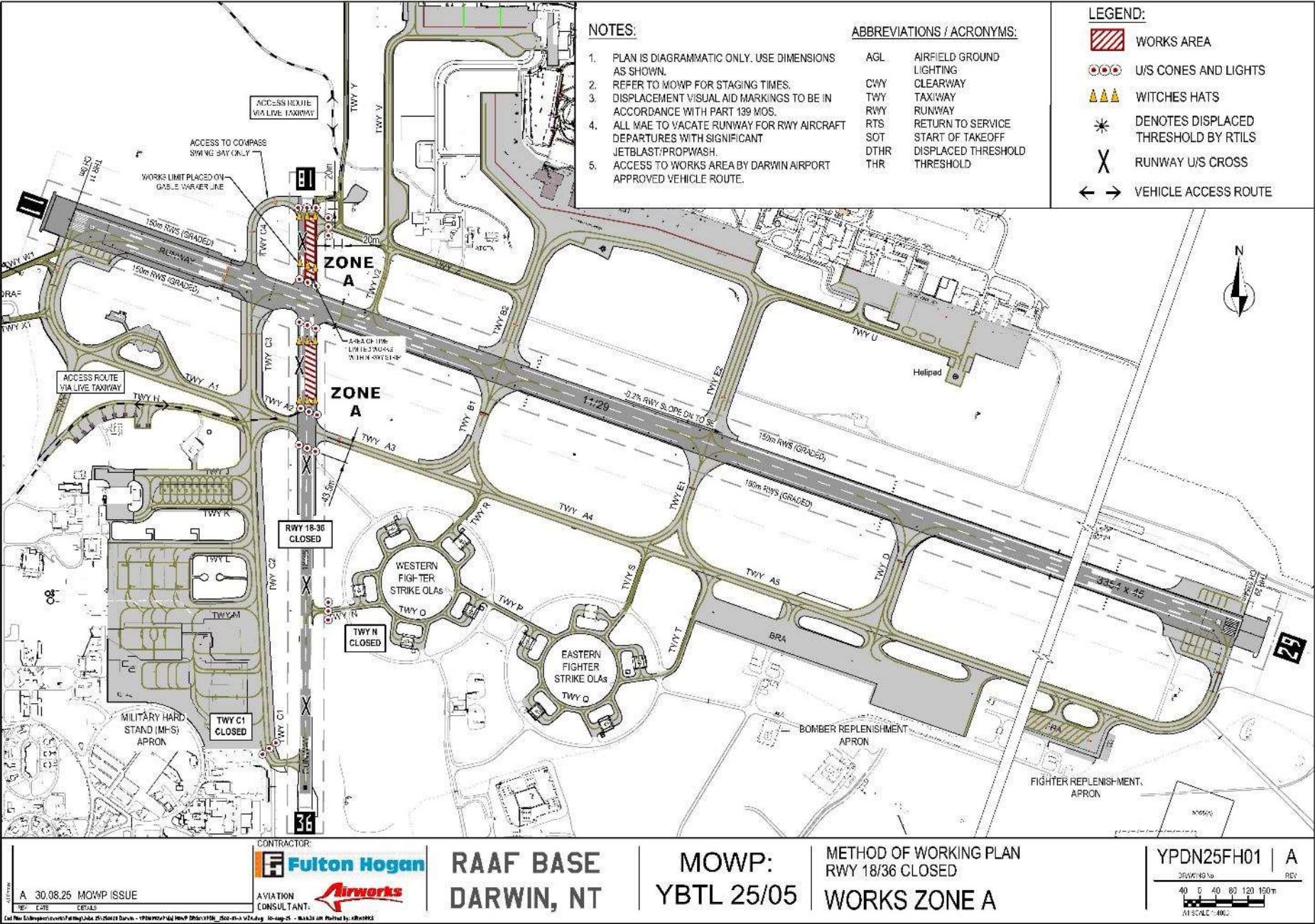
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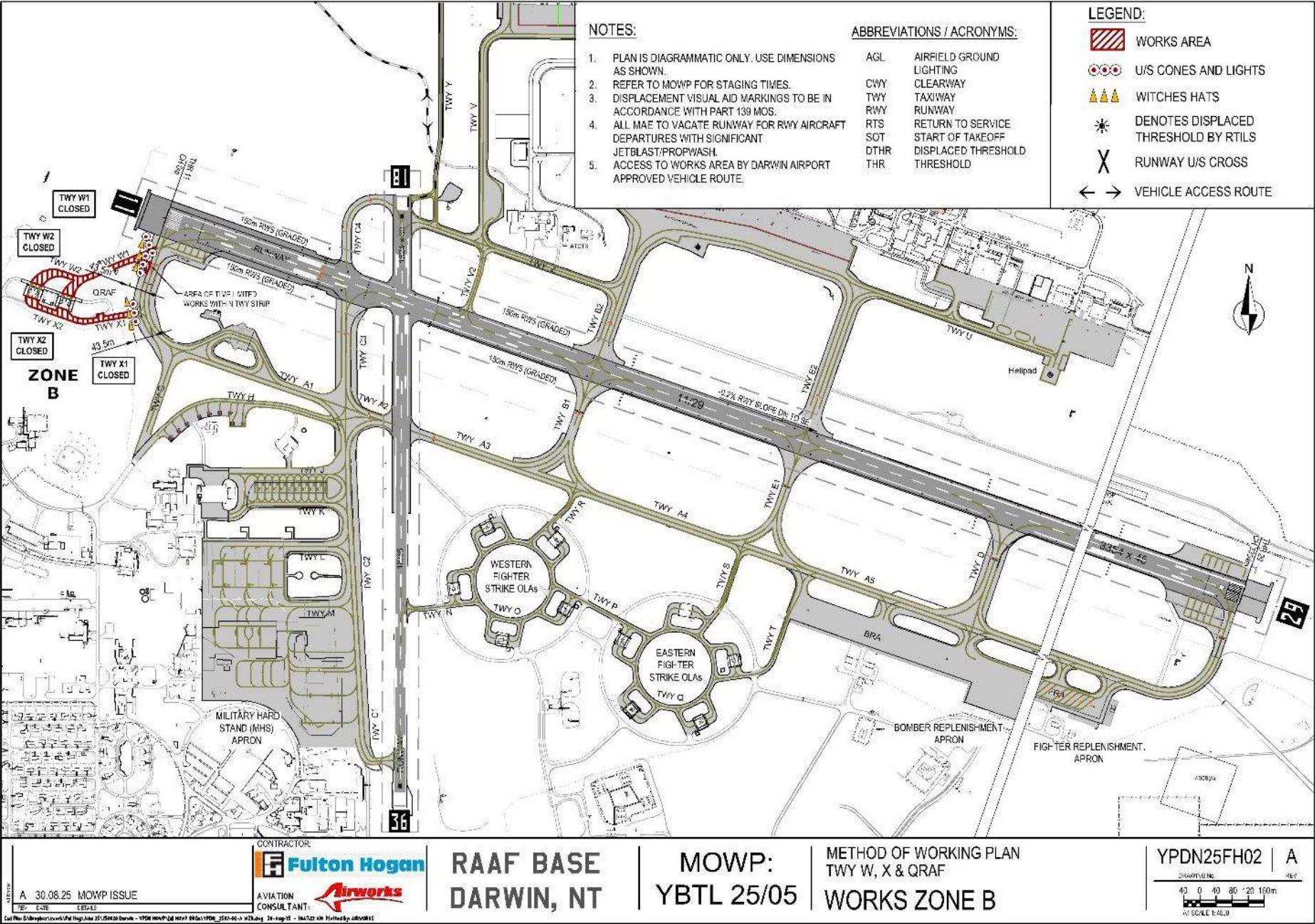
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| Malaysia Airlines | MHOps.Sydney@malaysiaairlines.com |
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| Westonia Aviation | operations@westoniaav.com.au |





CONTRACTOR

Fulton Hogan

RAAF BASE DARWIN, NT

AVIATION CONSULTANT

Airworks

MOWP: YBTL 25/05

METHOD OF WORKING PLAN

TWY W, X & QRAF

WORKS ZONE B

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