

Method of Working Plan

Taxiway Zulu

YMML 2024/1

AFO-AW-PLN-07-0016

Version 2

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Definitions

Please refer to the [Aeronautical Information Package](#) and the [CASA Website](#) for commonly used Aviation terms and abbreviations.

For additional definitions specific to Melbourne Airport, please visit www.melbourneairport.com.au/glossary.

Important Contacts

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Change Summary

Version	Date	Change Description
1	22 March 2024	<ul style="list-style-type: none"> Initial Issue
2	15 May 2024	<ul style="list-style-type: none"> Added information for Short-Term Controlled Activity Approval Updated Drawings for Stages 1, 2, 3 & 5

1. Works Information

1.1. Conditions of this Method of Working Plan

All works must be carried out in accordance with this MOWP.

No changes to the conditions outlined in this Method of Working Plan (MOWP) can be made without the approval of the Airfield Operations and Works Coordinators.

This MOWP must be carried out in conjunction with all Melbourne Airport Operation Policies.

1.2. Project Scope and Affected Aerodrome Facilities

The Taxiway Zulu 2.0 Project will provide the following outcomes for Melbourne Airport:

- Construction of new Taxiway Delta between Taxiway Victor and Taxiway Papa
- Reconstruction of Taxiway Alpha between Runway 09/27 and Taxiway Tango
- Realignment and reconstruction of Taxiway Echo between Taxiway Alpha and Taxiway Papa

During Stage 4 of this project, there will be 4 scheduled 32-hour closures of Runway 09/27 and associated Taxiways. Refer to the table below for dates of the 32-hour closures. Times are estimated and will be confirmed prior to each closure.

Closure	Times	32 Hour Closures
Closure 1	22:00 to 06:00	12 th Oct to 14 th Oct 2024
Closure 2	22:00 to 06:00	26 th Oct to 28 th Oct 2024
Closure 3	22:00 to 06:00	9 th Nov to 11 th Nov 2024
Closure 4	22:00 to 06:00	23 rd Nov to 25 th Nov 2024
Contingency Closure 1	22:00 to 06:00	7 th Dec to 9 th Dec 2024
Contingency Closure 2	22:00 to 06:00	14 th Dec to 16 th Dec 2024

1.2.1. Areas of Works

The Areas of Works referred to in this MOWP are dictated by **YMML-STCAA-2024-003**, a Short-Term Controlled Activity Approval (**STCAA**) issued to safeguard these works against Melbourne Airport's prescribed airspace based on the distance from the centreline of either Runway 16/34 or Runway 09/27. A graphic of these Areas of works is linked in [Section 8.14](#) of this MOWP.

Height limits, in metres above ground level (AGL), must be adhered to at all times in each respective Works Area, regardless of the Stage of Works that is in progress.

1.2.1.1. Works Area 1

This area captures any activity from the centreline of either runway outward to a maximum distance of 91m perpendicular from the centreline. This area is denoted by brown highlighting within the Works Area Delineation. Works in this area will mandate closure of the respective runway and equipment may operate to a maximum height of **7m AGL**.

1.2.1.2. Works Area 2

This area captures any activity between 91m and 150m from the centreline of either runway, denoted by orange highlighting within the Works Area Delineation. Works in this area will be within the ORA but will not penetrate the OLS Inner Transitional Surface at a maximum height of **7m AGL**.

1.2.1.3. Works Area 3

This area captures any activity between 150m and 220m from the centreline of either runway, denoted by yellow highlighting within the Works Area Delineation. Works in this area will penetrate the OLS Transitional Surface at a maximum height of **10m AGL**.

This STCAA provides approval for Stages 1-3, 5, and 7-12. This STCAA does not consider Stages 4 or 6 of the Taxiway Zulu project, which will be considered in a separate approval.

1.3. Works Sequence

1.3.1. Stage 1

Planned date and time of commencement	22 nd April 2024
During this stage	Works will be on Taxiway Papa between Runway 09/27 and existing Taxiway Echo. New Taxiway Delta will be between Taxiway Alpha and Taxiway Papa. <i>*There is an overlap of Stages 1 and 2 from the 30th of May 2024 to 31st of July 2024.</i>
Planned date and time of completion of stage	31 st July 2024

1.3.2. Stage 2

Planned date and time of commencement	30 th May 2024
During this stage	Works will be on New Taxiway Delta between Taxiway Papa and Taxiway Victor. Taxiway Alpha between Runway 09/27 and existing Taxiway Echo. <i>*There is an overlap of Stages 1 and 2 from the 30th of May 2024 to 31st of July 2024</i>
Planned date and time of completion of stage	22 nd August 2025

1.3.3. Stage 3

Planned date and time of commencement	22 nd April 2024
During this stage	Works will be at the new Taxiway Delta location, south of Runway 09/27 and north of existing Taxiway Echo in the grassed area.
Planned date and time of completion of stage	4 th April 2025

1.3.4. Stage 4

Planned date and time of commencement	12 th October 2024
During this stage	<p>Works will be on the Intersection of Taxiway Alpha and Runway 09/27 utilising 4 x 32-hour closures on Runway 09/27 to facilitate the tie-in.</p> <p><i>*Works to be undertaken via 32-hour closures of Runway 09/27 works.</i></p>
Planned date and time of completion of stage	16 th December 2024

1.3.5. Stage 5

Planned date and time of commencement	22 nd April 2024
During this stage	Works will be on Taxiway Victor between Runway 09/27 and existing Taxiway Echo.
Planned date and time of completion of stage	28 th May 2024

1.3.6. Stage 6

Planned date and time of commencement	12 th August 2024
During this stage	<p>Works will take place on the Intersection of Runway 09/27 and Taxiway Alpha.</p> <p><i>*These will be as required closures of Runway 09/27 throughout the project, times and dates will be notified via a Local Works Plan</i></p>
Planned date and time of completion of stage	28 th February 2025

1.3.7. Stage 7

Planned date and time of commencement	30 th May 2024
During this stage	Works will be on Taxiway Alpha between Taxiway Delta and existing Taxiway Echo. <i>*Stages 7 and 8 will have an overlap from the 29th of April 2025 to 22nd of August 2025</i>
Planned date and time of completion of stage	22 nd August 2025

1.3.8. Stage 8

Planned date and time of commencement	29 th April 2025
During this stage	Works will be on Taxiway Alpha south of Taxiway Delta and the Intersection of Taxiway Alpha and existing Taxiway Echo. <i>*Stages 7 and 8 will have an overlap from the 29th of April 2025 to 22nd of August 2025</i>
Planned date and time of completion of stage	14 th March 2026

1.3.9. Stage 9

Planned date and time of commencement	23 rd August 2025
During this stage	Works will be south of the Intersection of Taxiway Delta and Taxiway Papa. <i>*Stage 9 and Stage 10 will have an overlap from 23rd of August 2025 to 20th of June 2026. Stage 9 and Stage 11 will have an overlap from 31st of March 2026 to 06th of October 2026.</i>
Planned date and time of completion of stage	6 th October 2026

1.3.10. Stage 10

Planned date and time of commencement	23 rd August 2025
During this stage	Works will be on the realigned Taxiway Echo <i>*Stage 9 and Stage 10 will have an overlap from 23rd August 2025 to 20th June 2026.</i>
Planned date and time of completion of stage	20 th June 2026

1.3.11. Stage 11

Planned date and time of commencement	31 st March 2026
During this stage	Works will be on the Intersection of Taxiway Echo and Taxiway Papa <i>*Stage 9 and Stage 11 will have an overlap from 31st of March 2026 to 6th of October 2026.</i>
Planned date and time of completion of stage	6 th October 2026

1.3.12. Stage 12

Planned date and time of commencement	31 st March 2026
During this stage	Works will be on the Intersection of Taxiway Papa and Taxiway Tango <i>*Works will be completed at night only</i>
Planned date and time of completion of stage	28 th July 2026

The above work sequence is based on the plan only. The actual date and time of commencement will be broadcast via NOTAM, to be issued not less than 48 hours before work commences.

Actual dates and times will also be advised via the release of a Local Works Plan to affected stakeholders and will be updated to aircraft operators via the Aeronautical Information Publication including AIP-SUP, AIC, and NOTAM.

2. Restrictions to Aircraft Operations

2.1. Restrictions by Works Stage

2.1.1. Stage 1

Stage 1	
Description of works	<p>Works will take place on Taxiway Papa between Runway 09/27 and Taxiway Echo and New Taxiway Delta between Taxiway Alpha and Taxiway Papa.</p> <p>Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.</p>
Scheduled start date	22 nd April 2024
Scheduled end date	31 st July 2024
Restrictions: Manoeuvring Area	
Runways	Not applicable.
Taxiways	Taxiway Papa between Runway 09/27 and Taxiway Echo not available
Taxilanes	Not applicable.
Aircraft type restrictions	Not applicable.
NOTAM	<p>(A)MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 1 TWY P BTN RWY 09/27 AND TWY E CLSD DUE TO WIP REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 1</p>
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	<i>*Please Note There is an overlap of Stages 1 and 2 from the 30th of May 2024 to 31st of July 2024</i>
Drawing	Stage 1
ATC Lighting Control	T44

2.1.2. Stage 2

Stage 2	
Description of works	The works will take place new Taxiway Delta between Taxiway Papa and Taxiway Victor and Taxiway Alpha between Runway 09/27 and existing Taxiway Echo. Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.
Scheduled start date	30 th May 2024
Scheduled end date	22 nd August 2025
Restrictions: Manoeuvring Area	
Runways	Not applicable.
Taxiways	New Taxiway Delta between Taxiway Papa and Taxiway Victor not available Taxiway Alpha between Runway 09/27 and existing Taxiway Echo not available
Aircraft type restrictions	Not applicable.
NOTAM	(A)MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 2 TWY A BTN TWY E AND TWY C CLSD DUE WIP REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 2
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	<i>*Please Note There is an overlap of Stages 1 and 2 from the 30th of May 2024 to 31st of July 2024</i>
Drawing	Stage 2
ATC Lighting Control	T7

2.1.3. Stage 3

Stage 3	
Description of works	The works will take place at the new Taxiway Delta location, south of Runway 09/27 and north of the existing Taxiway Echo. Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, Line marking, drainage, survey, or geological investigation works.
Scheduled start date	22 nd April 2024
Scheduled end date	4 th April 2025
Restrictions: Manoeuvring Area	
Runways	N/A
Taxiways	New Taxiway Delta, south of Runway 09/27 and north of existing Taxiway Echo
Taxilanes	Not applicable.
Aircraft type restrictions	Not applicable.
NOTAM	No requirement for a NOTAM
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	
Drawing	Stage 3
ATC Lighting Control	Not applicable.

2.1.4. Stage 4

Stage 4	
Description of works	The works will take place on the intersection of Taxiway Alpha and Runway 09/27 within the Runway Strip. Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, Line marking, drainage, survey, or geological investigation works.
Scheduled start date	12 th October 2024
Scheduled end date	16 th December 2024
Restrictions: Manoeuvring Area	
Runways	Runway 09/27 will not be available for the 32 hours closures
Taxiways	Taxiway Papa north of Taxiway Echo not available Taxiway Quebec north of Taxiway Echo not available Taxiway Alpha between Taxiway Echo and Taxiway Charlie not available Taxiway Mike not available Taxiway November not available Taxiway Echo west of Runway 16/34 not available
Taxilanes	Not applicable.
Aircraft type restrictions	Not applicable.
RWY NOTAM	(A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 4 RWY 09/27 CLSD DUE WIP REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 4
TWY NOTAM	(A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 4 TWY P NORTH OF TWY E CLSD DUE WIP TWY Q NORTH OF TWY E CLSD TWY A BTN TWY E AND TWY C CLSD TWY M CLSD TWY N CLSD TWY E WEST OF RWY 16/34 CLSD REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 4

Stage 4	
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	<i>Works will be undertaken via 32 hours closure of Runway 09/27 and associated Taxiways</i>
Drawing	Stage 4
ATC Lighting Control	R2

2.1.5. Stage 5

Stage 5	
Description of works	The works will take place on Taxiway Victor between Taxiway Echo and Runway 09/27. Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.
Scheduled start date	22 nd April 2024
Scheduled end date	28 th May 2024
Restrictions: Manoeuvring Area	
Runways	Not applicable.
Taxiways	Taxiway Victor between Taxiway Echo and Taxiway Charlie not available
Taxilanes	Not applicable.
Aircraft type restrictions	Not applicable.
NOTAM	A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 5 TWY V BTN TWY E AND TWY C CLSD DUE TO WIP REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 5

Stage 5	
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	
Drawing	Stage 5
ATC Lighting Control	T89

2.1.6. Stage 6

Stage 6	
Description of works	The works will take place on the Intersection of Runway 09/27 and Taxiway Echo for the realignment of AGL and line marking. Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.
Scheduled start date	12 th August 2024
Scheduled end date	28 th February 2025
Restrictions: Manoeuvring Area	
Runways	Runway 09/27
Taxiways	Taxiway Papa north of Taxiway Echo not available Taxiway Quebec north of Taxiway Echo not available Taxiway Alpha between Taxiway Echo and Taxiway Charlie not available Taxiway Mike not available Taxiway November not available Taxiway Echo west of Runway16/34 not available
Taxilanes	Not applicable.
Aircraft type restrictions	Not applicable.

Stage 6	
RWY NOTAM	(A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 6 RWY 09/27 CLSD DUE WIP REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 6
TWY NOTAM	(A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 6 TWY P NORTH OF TWY E CLSD DUE WIP TWY Q NORTH OF TWY E CLSD TWY A BTN TWY E AND TWY C CLSD TWY M CLSD TWY N CLSD TWY E WEST OF RWY 16/34 CLSD REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 6
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	<i>*Closures will be on selected dates during this period.</i>
Drawing	Stage 6
ATC Lighting Control	R2

2.1.7. Stage 7

Stage 7	
Description of works	Works will be on Taxiway Alpha between Taxiway Delta and the existing Taxiway Echo. Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.
Scheduled start date	30 th May 2024
Scheduled end date	22 nd August 2025
Restrictions: Manoeuvring Area	
Runways	Not applicable.

Stage 7	
Taxiways	Taxiway Alpha between Taxiway Echo and Taxiway Delta not available
Taxilanes	Not applicable.
Aircraft type restrictions	Not applicable.
NOTAM	(A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 7 TWY A BTN TWY E AND TWY D CLSD DUE WIP REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 7
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	<i>*Stages 7 and 8 will have an overlap from the 29th of April 2025 to 22nd of August 2025</i>
Drawing	Stage 7
ATC Lighting Control	T7

2.1.8. Stage 8

Stage 8	
Description of works	Works will be on the Intersection of Taxiway Echo and Taxiway Alpha Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.
Scheduled start date	29 th April 2025
Scheduled end date	14 th March 2026
Restrictions: Manoeuvring Area	
Runways	Not applicable.
Taxiways	Taxiway Echo between Taxiway Victor and Taxiway Sierra not available Taxiway Alpha between Taxiway Tango and Taxiway Delta not available Taxiway Foxtrot between Taxiway Tango and Taxiway Echo not available

Stage 8	
Taxilanes	Not applicable.
Aircraft type restrictions	Not applicable.
NOTAM	(A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 8 TWY E BTN TWY V AND TWY S CLSD DUE WIP TWY A BTN TWY T AND TWY D CLSD TWY F BTN TWY T AND TWY E CLSD REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 8
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	<i>*Stages 7 and 8 will have an overlap from the 29th of April 2025 to 22nd of August 2025</i>
Drawing	Stage 8
ATC Lighting Control	Not applicable

2.1.9. Stage 9

Stage 9	
Description of works	Works will be south of the Intersection of Taxiway Delta and Taxiway Papa, planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.
Scheduled start date	23 rd August 2026
Scheduled end date	6 th October 2026
Restrictions: Manoeuvring Area	
Runways	Not applicable.
Taxiways	Taxiway Echo between Taxiway Quebec and Taxiway Alpha not available Taxiway Papa between Taxiway Delta Taxiway Tango not available
Taxilanes	Not applicable.

Stage 9	
Aircraft type restrictions	Not applicable.
NOTAM	(A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 9 TWY E BTN TWY Q AND TWY A CLSD DUE WIP TWY P BTN TWY D AND TWY T CLSD REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 9
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	<i>*Stage 9 and Stage 10 will have an overlap from 23rd of August 2025 to 20th of June 2026. Stage 9 and Stage 11 will have an overlap from 31st of March 2026 to 06th October 2026.</i>
Drawing	Stage 9
ATC Lighting Control	Not applicable.

2.1.10. Stage 10

Stage 10	
Description of works	Works will be on the realigned Taxiway Echo, planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.
Scheduled start date	23 rd August 2025
Scheduled end date	20 th June 2026
Restrictions: Manoeuvring Area	
Runways	Not applicable.
Taxiways	Taxiway Echo between Taxiway Papa and Taxiway Alpha not available
Taxilanes	Not applicable.
Aircraft type restrictions	Not applicable.

Stage 10	
NOTAM	A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 10 TWY E BTN TWY P AND TWY A CLSD DUE WIP REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 10
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	<i>*Stage 9 and Stage 10 will have an overlap from 23rd of August 2025 to 20th of June 2026.</i> <i>*Stage 10 and Stage 11 will have an overlap from 31st of March 2026 to 20th of June 2026.</i>
Drawing	Stage 10
ATC Lighting Control	Not applicable.

2.1.11. Stage 11

Stage 11	
Description of works	Works will be on the Intersection of Taxiway Echo and Taxiway Papa Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.
Scheduled start date	31 st March 2026
Scheduled end date	6 th October 2026
Restrictions: Manoeuvring Area	
Runways	Runway 27 departures and Runway 09 arrivals are not available for Code F aircraft.
Taxiways	Taxiway Echo between Taxiway Alpha and Taxiway Quebec, Taxiway Papa between Taxiway Tango, and the new Taxiway Delta not available
Taxilanes	Not applicable
Aircraft type restrictions	Not applicable.

Stage 11	
NOTAM	A) MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 11 TWY E BTN TWY A AND TWY Q CLSD DUE WIP TWY P BTN TWY T AND TWY D CLSD REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 11
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	* <i>Stage 9 and Stage 11 will have an overlap from 31st of March 2026 to 06th October 2026.</i> <i>Stage 10 and Stage 11 will have an overlap from 31st of March 2026 to 20th of June 2026.</i>
Drawing	Stage 11
ATC Lighting Control	Not applicable

2.1.12. Stage 12

Stage 12	
Description of works	Works will be on the Intersection of Taxiway Papa and Taxiway Tango Planned works may include but are not limited to pavement construction, shoulder construction, AGL installation, line marking, drainage, survey, or geological investigation works.
Scheduled start date	31 st March 2026
Scheduled end date	28 th July 2026
Restrictions: Manoeuvring Area	
Runways	Not applicable
Taxiways	Taxiway Tango between Taxiway Papa and 68m west of the Taxiway Quebec Intermediate Holding Position not available
Taxilanes	Taxilane Papa will not be accessible from the east of Taxiway Papa on Taxiway Tango.
Aircraft type restrictions	Not applicable

Stage 12	
NOTAM	(A)MELBOURNE (B) (START DATE) (C) (FINISH DATE) (E)MOWP YMML 2024/1 STAGE 12 TWY T BTN TWY P AND 68m WEST OF TWY Q IHP CLSD DUE TO WIP TWY P BTN TWY T AND TWY E CLSD REFER METHOD OF WORKING PLAN YMML 2024/1 STAGE 12
Remarks (details of any special restrictions and the requirements for the issue of NOTAMs)	<i>*Works will be completed at night only.</i>
Drawing	Stage 12
ATC Lighting Control	T77

2.2. Weather Conditions

Works will not be permitted on the manoeuvring area, or in areas the Senior Airside Safety Officer (Car2) believes to be unsafe, when:

1. Low Visibility Procedures are in force; or
2. Other weather conditions cause Car2, in conjunction with ATC, to determine the works would be unsafe or affect airport operations.

Low Visibility Procedures must be in force when:

- a) The cloud ceiling is at or below the CAT I minima for the runway being used; or
- b) Runway Visual Range (RVR) is at or below 550m (or visibility at or below 800m when RVR not available).

When implementing LVP, Melbourne Tower will notify:

- a) The Senior Airside Safety Officer
- b) Service Desk Airway; and
- c) Operations Manager (OM) Systems Supervisor (SS)

ATC will then declare “Low Visibility Procedures in Force” on the Automated Terminal Information Service (ATIS).

Works may be postponed, limited, or cancelled subject to the prevailing weather conditions.

If a NOTAM is required to be cancelled or amended due to weather conditions, a new NOTAM may be issued at short notice to activate another stage of the MOWP and minimise impact to aircraft operations.

2.3. Airport Emergencies

Under certain emergency situations, access to the airside of the airport including the work site will not be allowed.

Because of the unpredictable nature of emergency situations, it is not possible to give advance warning of these occurrences. Local Standby situations do not require the works party to vacate the airside.

2.4. NOTAM or Other Change to AIP

Melbourne Airport will issue a NOTAM or other required change to the AIP (i.e. AIP-SUP or AIC) prior to the commencement of the works. Refer to the [Restrictions by Works Stage](#) section for the draft wording of NOTAMs.

Note: For works affecting the Instrument Landing System (ILS), Airservices is responsible for issuing a NOTAM to activate/deactivate the ILS.

2.5. Restoration of Normal Safety Standards

All works undertaken in the stages of this MOWP specified in subsection [2.1](#) will require the partial closure of the Manoeuvring area. These closed areas will not be available for aircraft operations until works have been completed, inspected, and declared serviceable as specified in subsection [5.14](#).

2.6. Restrictions on the Organisation Carrying Out Works

Organisations carrying out aerodrome works must do so in accordance with this MOWP, especially sections [Personnel and Equipment](#) and [Aerodromes Markers, Markings and Lights](#). The Airside Works Safety Policy must also be adhered to, particularly section 5.8 – Lighting of the Works Area

3. Personnel and Equipment

3.1. Requirement to Vacate the Movement Area

Personnel and equipment will be required to vacate the movement area during certain weather conditions (refer [Weather Conditions](#)) and in the event of an airport emergency (refer [Airport Emergencies](#)).

3.2. Working Hours on Site

Works will be conducted at all hours of the day as agreed by Melbourne Airport to minimise the disruption to operations.

3.3. Melbourne Airport Operational Policies

At all times the contractor must abide by Melbourne Airport's operational policies which include but are not limited to:

- Airside Works Safety Policy
- Drug and Alcohol Management Plan
- Airside Vehicle Control Handbook

All operational policies are available on the [Melbourne Airport website](#).

3.4. Site Restriction Markings/Lighting

Melbourne Airport may request the contractor to define the Site Restricted area (SRA).

The SRA is to be defined by either:

- 900mm or 300mm high red/white-water barriers
- A continuous line of witches' hat, or
- Other visual aids (markers, markings, or lights) as approved by the Airfield Operations Works Coordinator or delegate.

Yellow warning lights may be requested to be used to define the area during night works. Red lights may also be requested to be placed around hazards within the work area.

The works party, including all works vehicles that are not appropriately lit or approved under the Melbourne Airport Standard Blanket Clearance are not permitted to move outside the works area without the approval of the Works Safety Officer.

3.5. Access to the Work Site

Access to the work sites for all vehicles and deliveries will be via the access gates as shown on the attached plans. No vehicle will be allowed access or egress through any other gate except as approved by the Airfield Operations and Works Coordinators.

Vehicles and plant moving between the access gate and the work site must follow the route specified on the attached plan under the escort of an escort vehicle unless otherwise approved by Airfield Operations.

Delivery vehicles moving to and from the work site will be issued with a temporary pass at the access gate.

Vehicles that frequently gain access to airside must apply for a permanent Airside Vehicle Permit (Authority to Use Airside).

Contractors who do not hold an Airside Drivers Authority (ADA) will need to be escorted from the access gate to the works site.

3.6. Traffic Management Plans

A Traffic Management Plan (TMP) must be submitted to the Airfield Operations and Works Coordinator in the event any works have an impact on any airside roads including Apron Service Road, Airside Road, or Perimeter Road.

3.7. Marking/Lighting of Vehicles

Vehicles accessing the site will be required to have signs that clearly identify the vehicle as belonging to that company (an A4 size sign should be taken as a guide) and be issued with an Authority to Use Airside (AUA).

Additionally, all vehicles while operating airside will be required to have fitted an amber beacon which is visible 360 degrees of the vehicle and must be visible up to 200 meters from the vehicle in normal daylight conditions.

Please refer to the [Airside Vehicle Control Handbook](#) on the Melbourne Airport website for more information.

3.8. Vehicle/Equipment Height Limit

No vehicle or other item of plant over 5 metres high may be used at the works site without authority from the Airfield Operations and Works Coordinator. Works parties must comply with any other associated requirements in the Melbourne Airport Manual, including the associated Obstacle Restriction Area instrument as detailed in [Height and Location of Critical Obstacles](#).

The western track between Gates 11 and 8 will remain usable in all conditions except LVO with the two following restrictions:

- vehicle heights on this section of roadway **are not to exceed 4m**, and
- vehicles **are not permitted to stop** on this roadway section at any time.

If either of the two conditions cannot be achieved, this section of road cannot be used without tower approval as the integrity of the ILS may be affected.

3.9. Speed Limits

Maximum speed limits apply as follows:

A 10km/h speed limit applies:

- Around or under buildings (Airside Road, Concourse Road, Freight Service Road)
- Apron area within 15m of an aircraft

A 15km/h speed limit applies:

- Apron area not within 15m of an aircraft and not under or around buildings

A speed limit of 15km/h for tugs and 25km/h for all other vehicles applies to:

- Roadway from Gate 27 to south of Bay H2 (Airside Access Road)
- Roadway from maintenance bases and the rest of the airfield (Maintenance Road)
- Roadway from Gate 27 to G.S.E maintenance precinct (Airside Access Road)

A 40 km/h speed limit applies on taxiways.

A 60km/h speed limit applies on the Perimeter Road unless otherwise signposted.

Breaches of the speed limit will result in a Penalty Infringement Notice (PIN) being issued or refusal of access to the driver and vehicle involved.

3.10. Parking of Private Vehicles

Only vehicles and plant engaged in the works will be permitted at the works site. All other vehicles must be parked at a site pre-arranged with the Project Manager. All vehicles must be returned to the nominated compound at the completion of each day/night works.

3.11. Control of Works Personnel

All personnel associated with the work will always be bound by the directions of the Works Safety Officer with respect to operational safety matters.

3.12. Personal Protective Equipment (PPE)

The following PPE must be worn by all personnel airside:

- Hearing Protection
- Dayglow yellow High-Vis clothing or dayglow yellow High-Vis vest
- Eye and Skin protection is to be worn in reference to the prevailing weather conditions
- Safety shoes must always be worn on works sites
- Hard Hats are required to be worn on work sites

Refer to the Melbourne Airport [Pedestrian Safety Policy](#) for further information.

4. Aerodromes Markers, Markings and Lights

4.1. General

Melbourne Airport shall mark the unserviceable operational area and install unserviceability markers and markings during the works as per the attached plans.

Closed portions of the manoeuvring area will be marked by red and white unserviceability markers during the day, and red unserviceability lights at night, in accordance with the CASR Part 139 Manual of Standards (MOS).

4.2. Lights

All Lighting within and directly leading into the closed portion of Manoeuvring area will be obscured or extinguished.

The closed taxiway is marked with unserviceability cones that will be placed on the Intermediate Holding Position (IHP) at 3m spacing unless otherwise stated in the Local Works Plan (LWP)

This is supplemented by red lights at 3m spacing across the taxiway at night or in poor visibility. The taxiway centreline lights within the closed portion of the taxiway and taxiway lights leading into the closed portion are extinguished or covered during the works. Where possible MAG signs are maintained to assist pilots and works parties in situational awareness.

4.3. Protection of Electrical Services and Control Cables

The contractor, before the commencement of any works, will confirm the location of all underground services. This check is usually done in conjunction with the issuing of a Permit to Commence Works (PERCOW) and prevents damage to any airport services.

An excavation permit must also be obtained prior to the commencement of any excavation works that penetrate the ground surface. Refer [Excavation Permit](#).

5. Special Requirements

5.1. Airport Security

Aviation Security Identification Cards (ASIC) must be obtained for all personnel associated with airside works. Melbourne Airport will issue an ASIC on application by the contractor. Applications must be made at least **6 weeks** in advance.

Once issued the ASIC must be worn and always displayed on the outside of all clothing, at waist height or above, on the front or side of the person's body and with the front face of the card clearly visible whilst working on the airside of the airport.

Where contractors have applied for but not yet received their ASIC, or are itinerant short-term visitors to the worksite, Visitor Identification Cards (VIC) may be utilised in place of an ASIC. A VIC cannot be held for more than 28 days within a 12-month rolling timeframe. An ASIC Holder must be present in supervision of the VIC holder at all times whilst airside.

5.2. Permits

5.2.1. Permit to Commence Works.

This MOWP is **not** an approval to commence works.

Before works may commence, the contractor must obtain a Permit to Commence Works (PERCOW) from the [Melbourne Airport Buildings Approvals Officer](#). Please email the Building Approvals Officer should you require any further information.

5.2.2. Hot Works Permit

The contractor must obtain a Hot Works Permit from the Works Safety Officer prior to undertaking any oxy cutting, welding, or grinding on the airside of the airport.

A Hot Works Permit will be issued only when all Melbourne Airport safety requirements are met. For example, including but not limited to:

- the site is clean and free of all combustible material within 10m of works.
- a spark resistant solid hoarding is placed around the site.
- 2 x nine litre fire extinguishers are on site.
- A fire blanket (size of 3m square minimum) is on site.
- A "spotter" is in attendance for the duration of hot works.
- There are no refuelling aircraft or aircraft fuel vents in the vicinity of at least 50m for the duration of the permit.

When satisfied that all these conditions are being met a permit will be issued.

The permit is valid for a period of a maximum of one day and if works are to resume the next day a new permit is required.

Note: The permit only covers the location specified in the application. If the works move to another location a new permit is required.

Applications for Hot Works Permits within 5m of the building drip line will require approval from the [Fire & Life Safety Leader](#).

Permits will not be issued on days of a total fire ban.

5.2.3. Excavation Permit

The contractor, before the commencement of any works, will lodge a dial before you dig (DBYD) job through the DBYD website. Once the Melbourne Airport drawing is received, the excavation area is to be highlighted clearly with a description of works. The contractor will confirm the location of all underground services by an independent service locator.

An excavation permit must be obtained from [Melbourne Airport – Airfield Lighting](#) at least 5 business days prior to any excavation works that penetrate the ground surface with the documents below included in the application:

- Copy of the PERCOW
- Independent Service locators Certificate
- DBYD service drawings of the works area with the works area clearly marked.

5.2.4. Crane Permit

A permit must be obtained prior to the erection of any crane on the airport.

Applications for approval must be sent to [Airfield Support](#) a minimum of **5 working days prior** to the crane lift including the following information:

- The proposed location of the lift activity (street address, MGA or AMG co-ordinates)
- A site locality plan (i.e. Aerial Photo Extract)
- Crane maximum height (AHD or m above ground level)
- Date, time, and duration of activity
- Work description and
- Contact details of Site supervisor and applicant

An email confirming approval will be sent to the applicant prior to the crane lift.

For equipment that is likely to penetrate Melbourne Airport Airspace, **12 weeks** notification is required.

5.2.5. Electrical Isolation Permit

Any work on or near electrical cables will require an electrical isolation permit.

Requests for isolations regarding Airfield Lighting and High Mast Lights should be sent to [Melbourne Airport – Airfield Lighting \(Permits\)](#) at least **24 hours prior** to the commencement of the activity with a list of the circuits required for isolation.

The contractor must supply a licensed electrician to carry out isolations (Lock out Tag out) with a Melbourne Airport Airfield Lighting Officer. Upon completion of the isolation procedures, an isolation permit will be issued.

For all other electrical isolations please contact [Melbourne Airport – Engineering and Asset Management](#).

5.3. Critical Obstacles

5.3.1. General Requirements

Melbourne Airport's Prescribed Airspace cannot be penetrated without the relevant approvals. Refer [Crane Permits](#).

Unless specifically approved, plant/vehicle or equipment cannot exceed a maximum height of **5 metres** within the closed area.

Note: This limit is only applicable in locations where the Melbourne Airport's Prescribed Airspace will **not** be penetrated.

5.3.2. Height and Location of Critical Obstacles

For works within the Obstacle Restricted Area (ORA), works activities will comply with the Instrument of Approval number: CASA.ANAA.0101.2 issued from CASA on 19 February 2019. This instrument is maintained in the Melbourne Airport Manual.

These conditions will be communicated to the Works Safety Officer via the Airfield Operations Manager and to works parties via a contractor instruction.

5.4. Pavement and Cleanliness

The contractor is to ensure that runways and taxiways used or crossed during the works are kept clean and free of debris.

A sweeper (no steel brushes), approved by the Airfield Operations and Works Coordinator, is always to be kept on call whilst works are in progress.

Areas within the works site must also be free of Foreign Object Debris (FOD).

No trench within the runway or taxiway strip may be left open, unattended, or unprotected at the completion of each day/night works without prior approval of the Airfield Operations and Works Coordinator.

Any approved open excavations within the works area must be covered with heavy duty steel plates and defined by either 900mm or 300mm red and white half-filled water barriers and/or red lights.

5.5. Waste Disposal and Environment Protection

Any putrescible waste generated at the site is to be placed in secure, covered rubbish bins and removed from the airport at the end of each working day.

The contractor must ensure that all other waste is contained within the site and not free to blow around the airport. Builder's waste must be removed well clear of the movement area to a site directed by the Works Safety Officer and the Melbourne Airport Environment Manager.

The contractor must comply with all environmental controls as specified in the Construction Environment Management Plan provided by the contractor and endorsed by the Melbourne Airport Environment Manager or delegate.

Please refer to the Melbourne Airport Environmental Management Plan which can be found on the [Melbourne Airport website](#).

5.6. Explosives

No explosives or explosive power tools may be used on the airport without prior approval of the Airfield Operations and Works Coordinators.

5.7. Dust

Dust must be kept to a minimum and excavated areas must be constantly watered in windy conditions.

5.8. Dumping of Fill

Fill must be transported from the site to landside and dumped in an area approved by the Melbourne Airport Environment Team.

5.9. Site Shed Locations

Site shed locations that have any impact on the airline's staging or storage area must be approved by the Airfield Operations and Works Coordinators.

5.10. Food Consumption

Due to wildlife the consumption of any food whilst airside should be contained within a vehicle, or an approved sealed site shed (at no stage should food be consumed outside in open areas).

5.11. Smoking

All the airside is a designated NO SMOKING area, this includes the use of E-Cigarettes.

Smoking is not permitted within the works site, the building area, or in any vehicle whilst airside.

5.12. Wildlife Hazards

The contractor is to monitor all work sites for increased wildlife activity. In the event of an increase in wildlife activity, the contractor is to notify Car2 and the Airfield Operations Manager immediately. All precautions are to be taken to minimise this risk.

To limit the risk of wildlife activity on the airfield, restrictions apply to eating airside. Eating is restricted to inside enclosed areas only. Any food scraps must be disposed of correctly in suitable bins to prevent attracting wildlife. Any bins used to dispose of food scraps must be emptied daily. Food vans are not permitted on the airfield.

Wildlife hazards must be reported immediately to the WSO assigned to the site or if unavailable, to the [Car2](#). Wildlife hazard management is to be handled in accordance with the Melbourne Airport Airside Operational Safety Policy –Wildlife Hazard Management. This document is available on the [Melbourne Airport website](#).

5.13. Lime and Cement stabilisation

Lime and cement spreading is not allowed to take place during the following conditions:

- in winds greater than 5 knots
- if the wind is blowing towards the terminal
- if the wind is blowing towards critical operational areas such as an active apron, TWY or RWY

The contractor will employ additional measures to minimise the escape of dust from the site. It is preferable that contractors undertake the spreading of lime and cement dust at early morning/dusk hours to minimize impacts on airfield operations. Approval must be obtained during the project planning from the Airfield Operations Manager. An approval must be obtained prior to any spreading on the day from [Car2](#).

5.14. Completion of Works Inspection

On completion of the works (if applicable) the contractor is to return the area to a serviceable and compliant standard and to the satisfaction of the Car2.

Car2 must conduct a thorough inspection prior to reopening the area to ensure that the area is serviceable and compliant.

All facilities, markers and markings are to be carefully checked to ensure that they comply with the CASA standards. Special attention must be paid to markers and/or markings/lighting that may have been obliterated or obscured by the works party.

On completion of each stage of the works, the contractor is to:

- clean up the area to the satisfaction of the Airfield Operations and Works Coordinator and/or Car2
- rectify any pavement damage to the satisfaction of the Airfield Civil Maintenance Manager
- remove all building rubbish, excess materials, and construction plant from the site.

A joint inspection involving the Airfield Lighting Maintenance Manager, Airfield Facilities and Technical Manager, Airfield Civil Maintenance Manager, Airfield Operations and Works Coordinator, and the Airfield Operations Manager may be conducted before the works area is deemed to be completed.

6. Administration

6.1. Contractors

The work is being carried out by Fulton Hogan staff and contractors employed by Melbourne Airport.

6.2. Project Manager

The Project Manager will be Ben Torwick (+61 423 785 256, ben.torwick@melair.com.au). All questions relating to the technical aspect of this project should be directed to the [Project Manager](#).

6.3. Works Organiser

The Works Organiser will be Wen Li (+61 423 044 470, wen.li@dcwc.com.au). All questions relating to the practical aspect of this project should be directed to the [Works Organiser](#).

Note: The Works Organiser / Project Manager may change throughout these stages of work, changes will be advised within the Local Works Plan.

6.4. Airfield Operations and Works Coordinator

The Melbourne Airport [Airfield Operations and Works Coordinator](#) will be either Leanne Carroll or Ron Butterworth. Any queries about the conditions contained in this MOWP or the effect of the works on aircraft operations should be directed to the Airfield Operations and Works Coordinator.

6.5. Works Safety Officer

The Senior Airside Safety Officer (Car2) will be the nominated Senior Works Safety Officer to look after the works. [Car2](#) will be contactable 24/7.

The Senior Works Safety Officer may be supported by one or a team of Works Safety Officers which may delegate some or all the specified responsibilities.

The Senior Works Safety Officer will be responsible for the operational safety of the works including the opening and closing of the works areas.

The Works Safety Officer performs the responsibilities as specified in the CASR Part 139 MOS and as required for these works.

6.6. MOWP Author

This MOWP has been written by:

Leanne Carroll

**Airfield Operations and Works Coordinator
Melbourne Airport**

7. Authority

7.1. Conduct of Works

All works must be carried out in accordance with the MOWP

7.2. Expiry

This MOWP will expire on 30/08/2027 unless otherwise amended or extended.

7.3. Variation

The approval of the Airfield Operations and Works Coordinator must be obtained before any variation is made to this MOWP or associated NOTAM. Verbal approvals are to be confirmed in writing at the earliest opportunity.

7.4. Approval

This MOWP has been checked and concurred with by Airservices Australia, major airline operators, and internally within Melbourne Airport.

The MOWP is issued by Melbourne Airport in accordance with the CASR Part 139 MOS – Aerodrome Chapter 16 Method of Working Plans issued by the Civil Aviation Safety Authority.

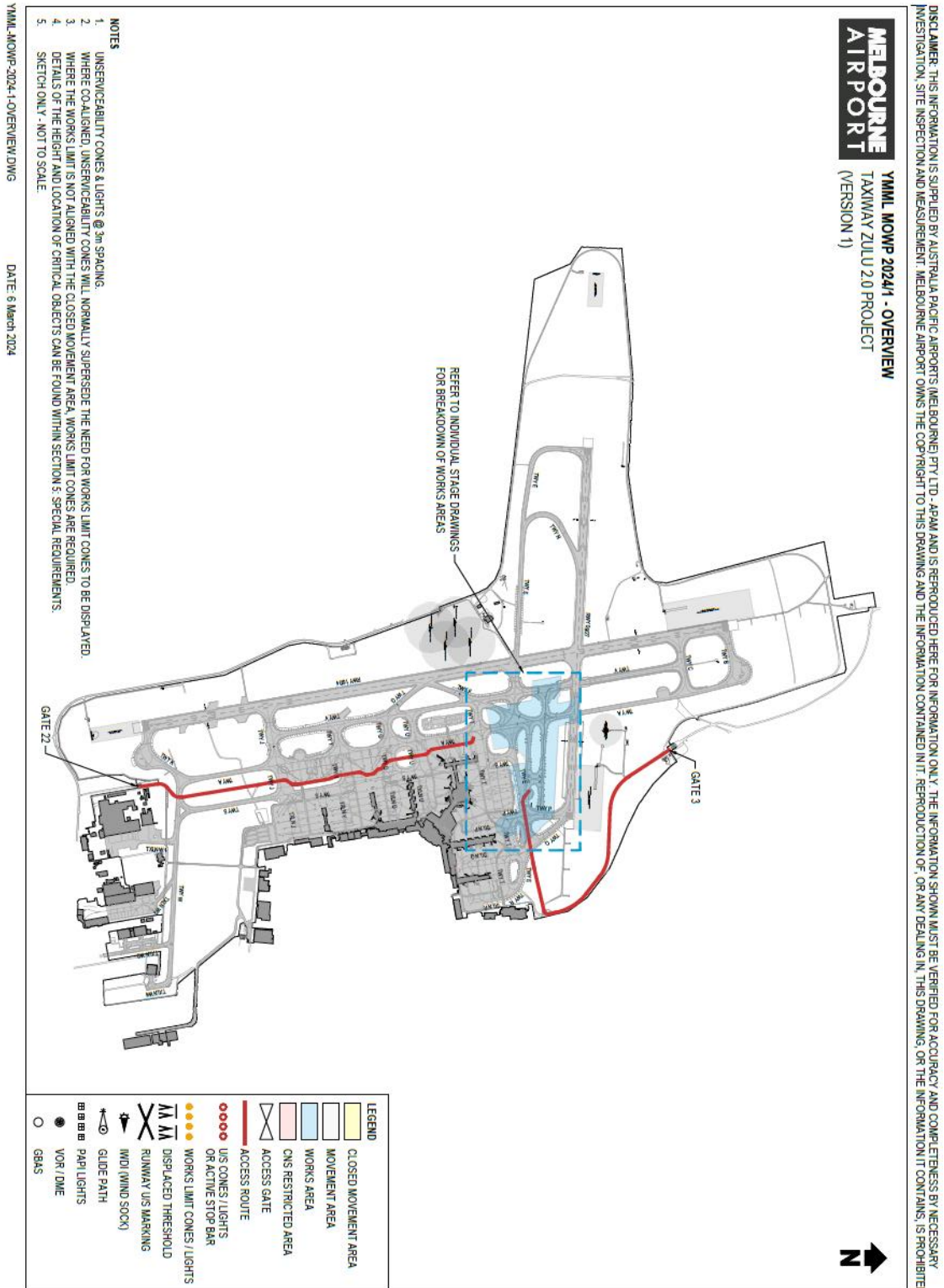
The Head of Airfield has authorised this MOWP as delegated in writing by the Accountable Manager for Melbourne Airport, as identified in the Melbourne Airport Manual.



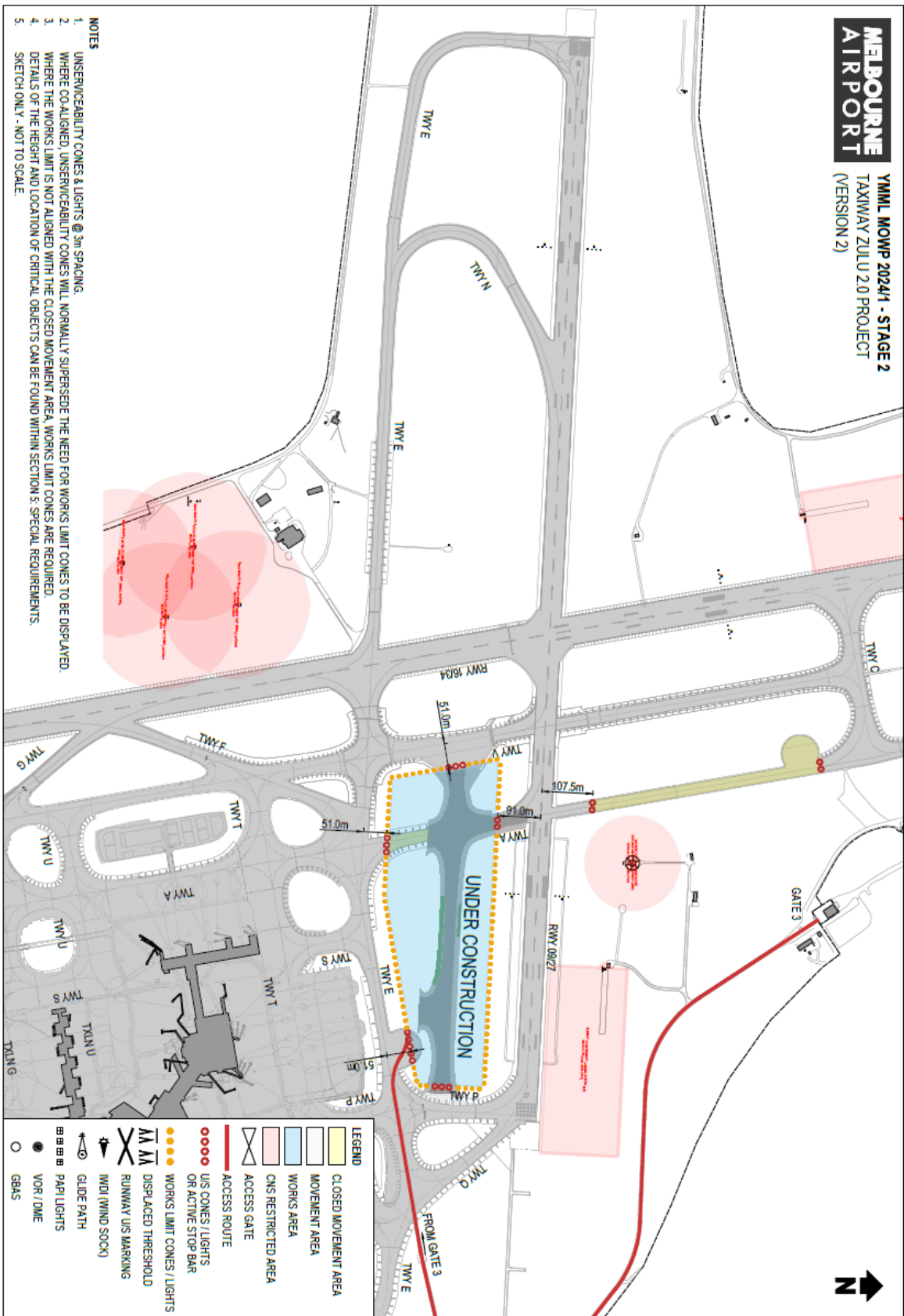
**Mark Wilson
Head of Airfield**

8. Drawings

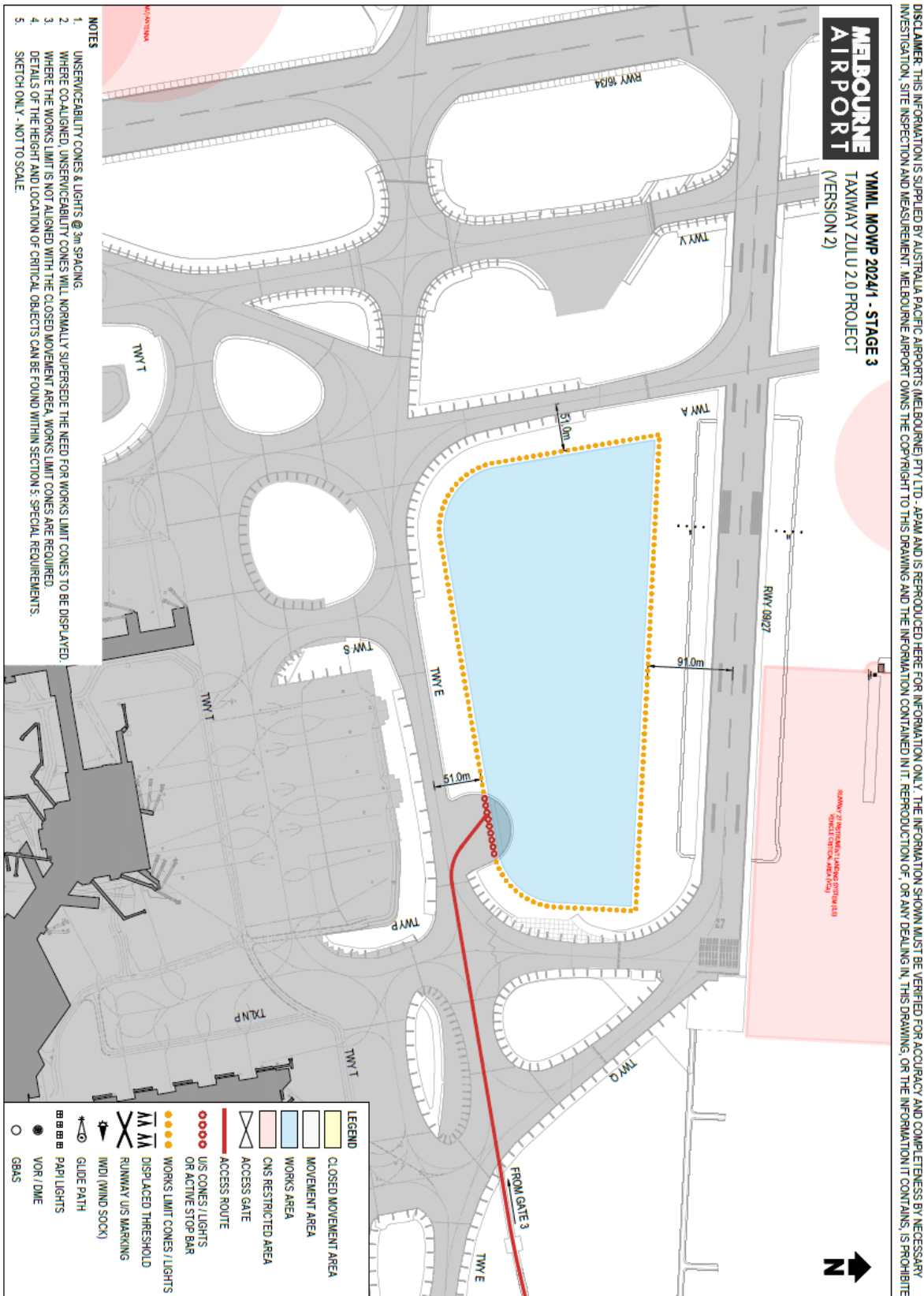
8.1. Overview



8.3. Stage 2



8.4. Stage 3



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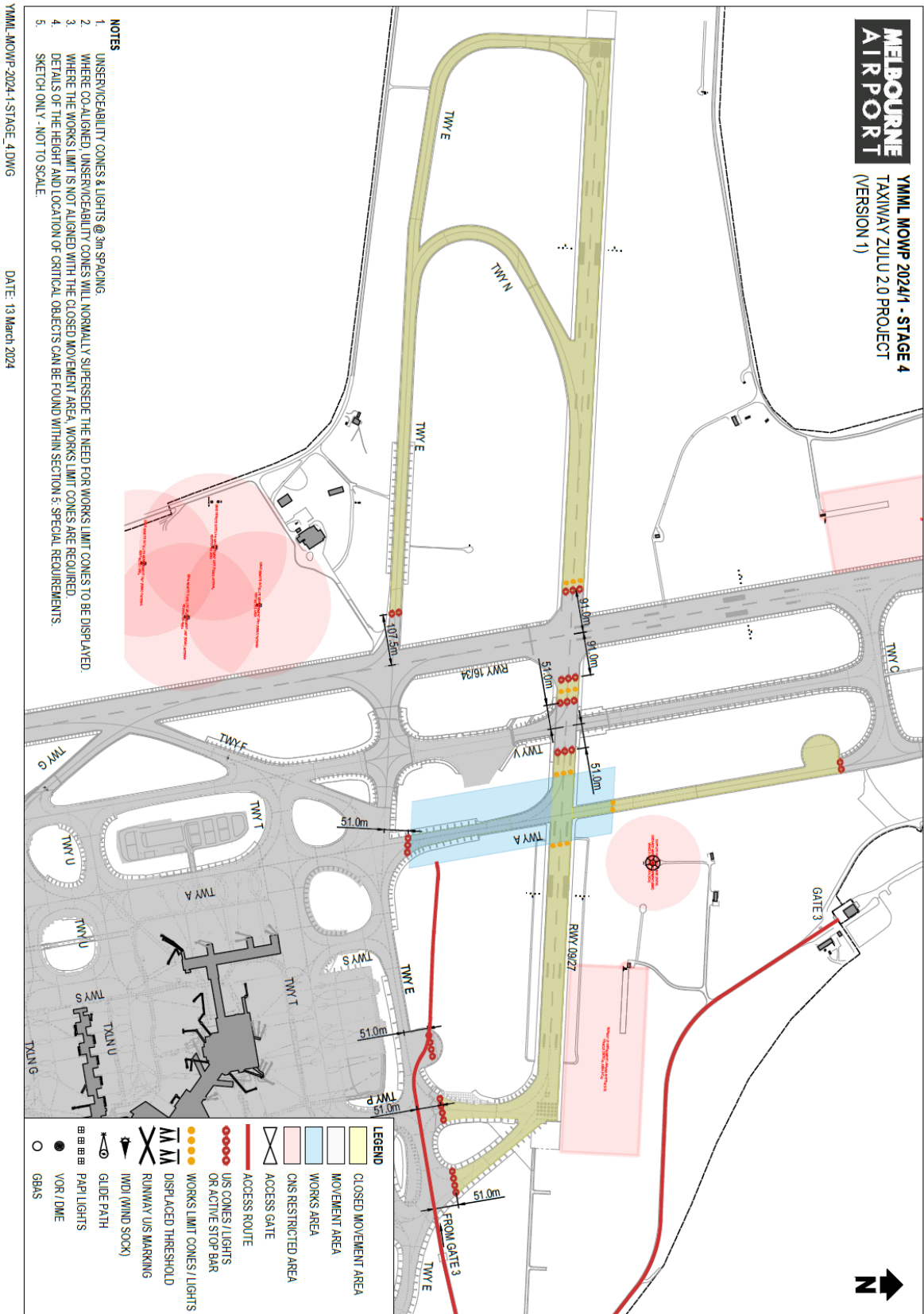
DATE: 29 April 2024

MELBOURNE AIRPORT

YAML MOWP 2024/1 - STAGE 3
TAXIWAY ZULU 20 PROJECT
(VERSION 2)

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8.5. Stage 4

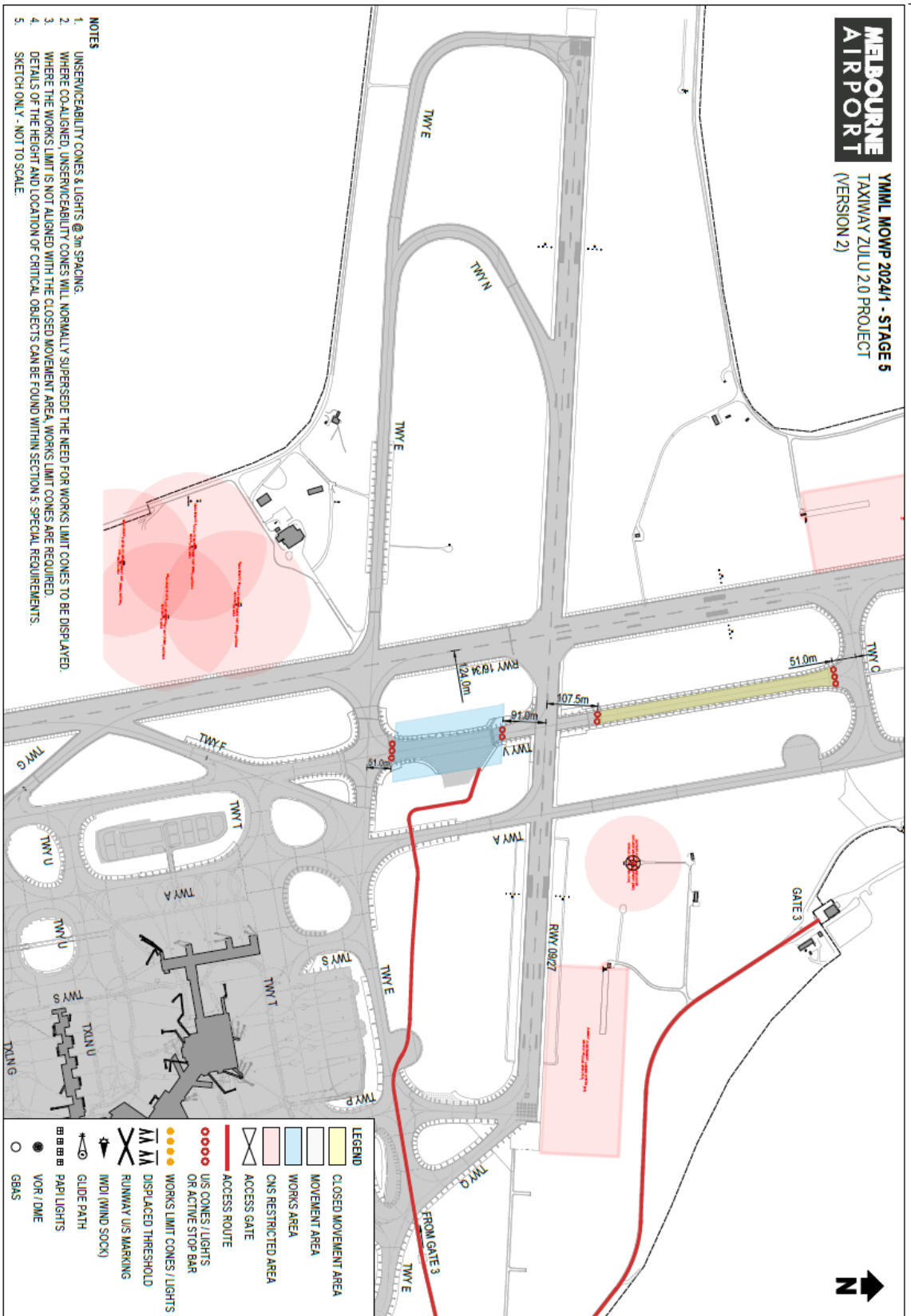


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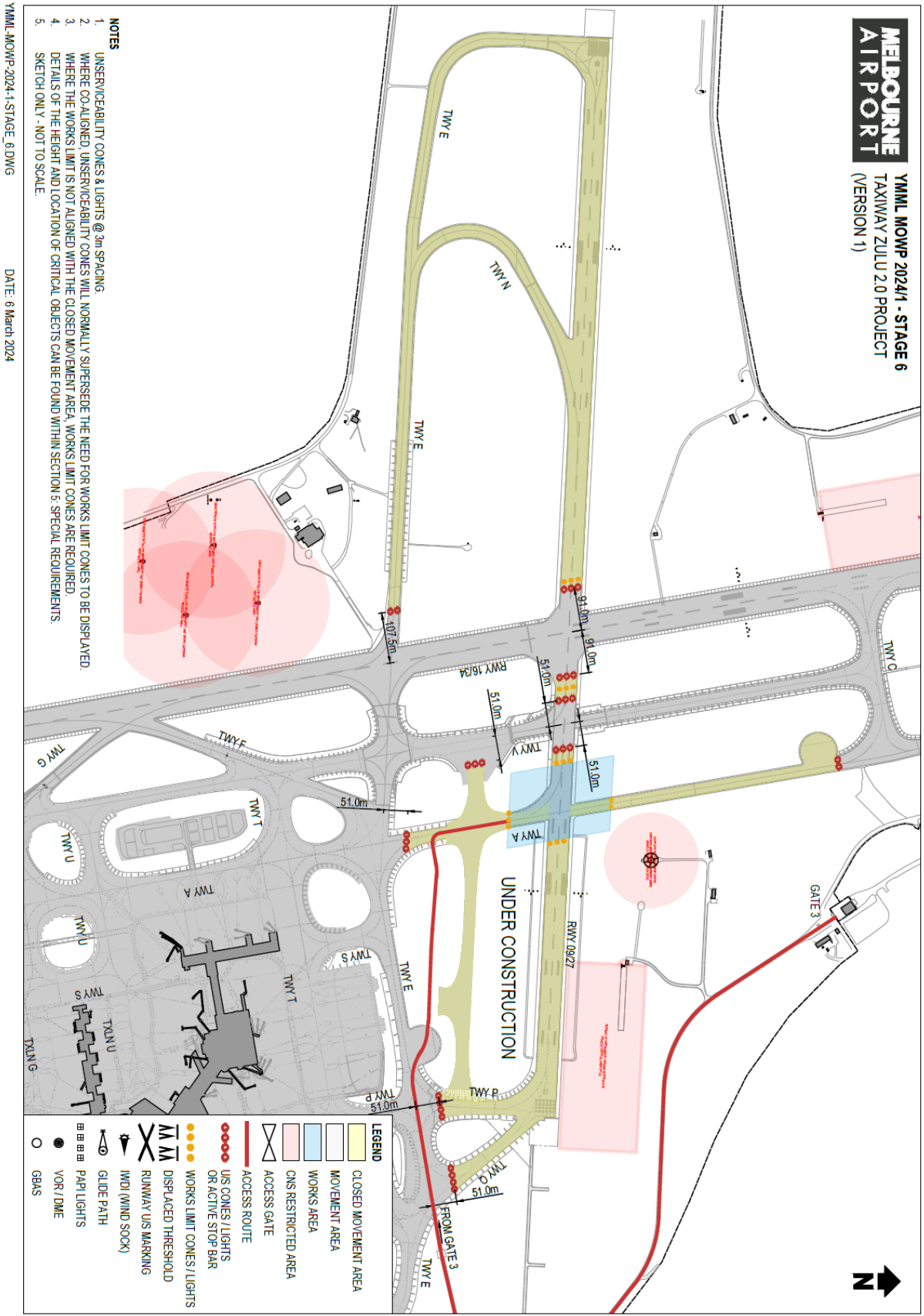
8.6. Stage 5

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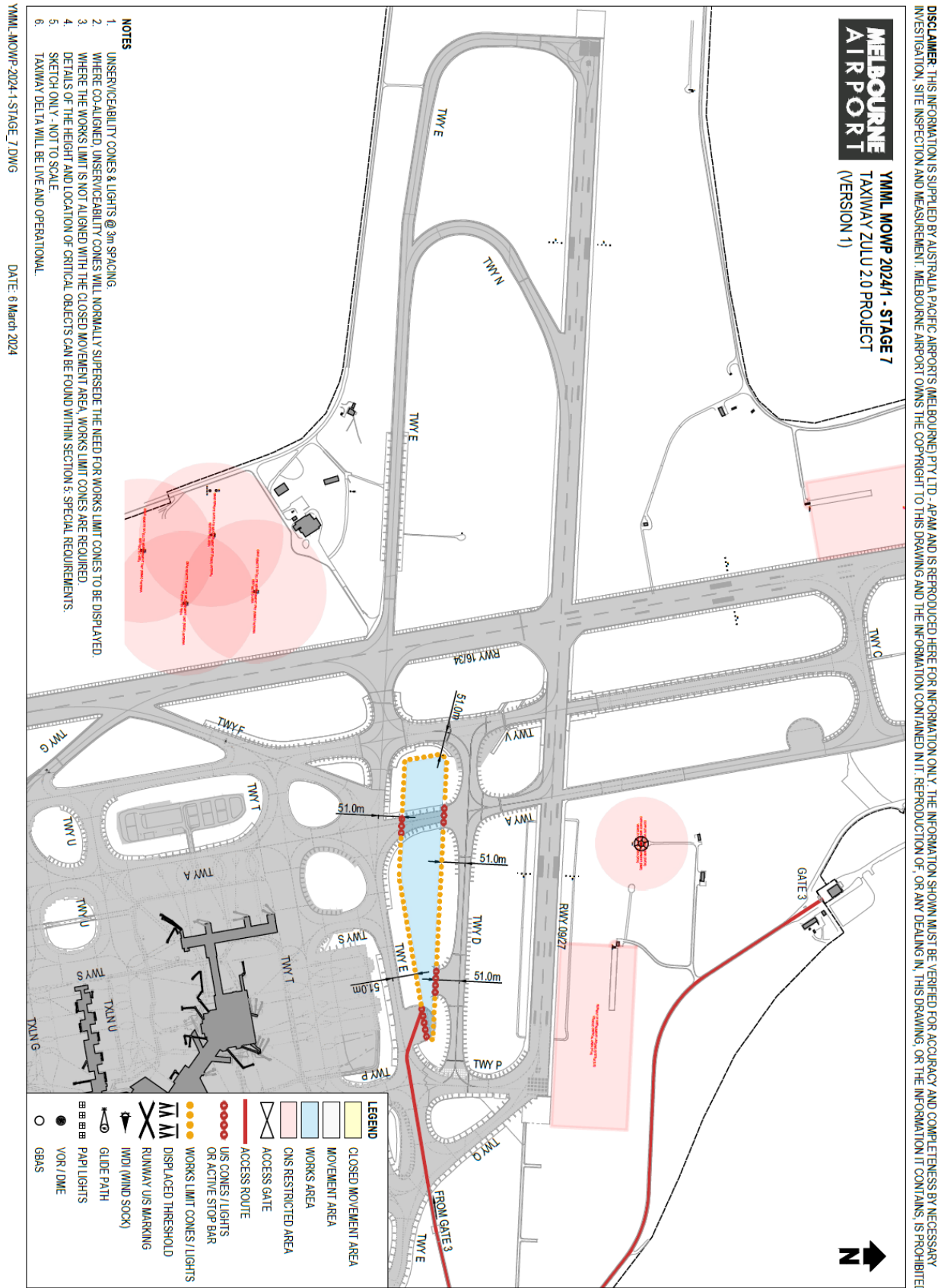
MELBOURNE AIRPORT
YML MOWP 2024/1 - STAGE 5
TAXIWAY ZULU 20 PROJECT
(VERSION 2)



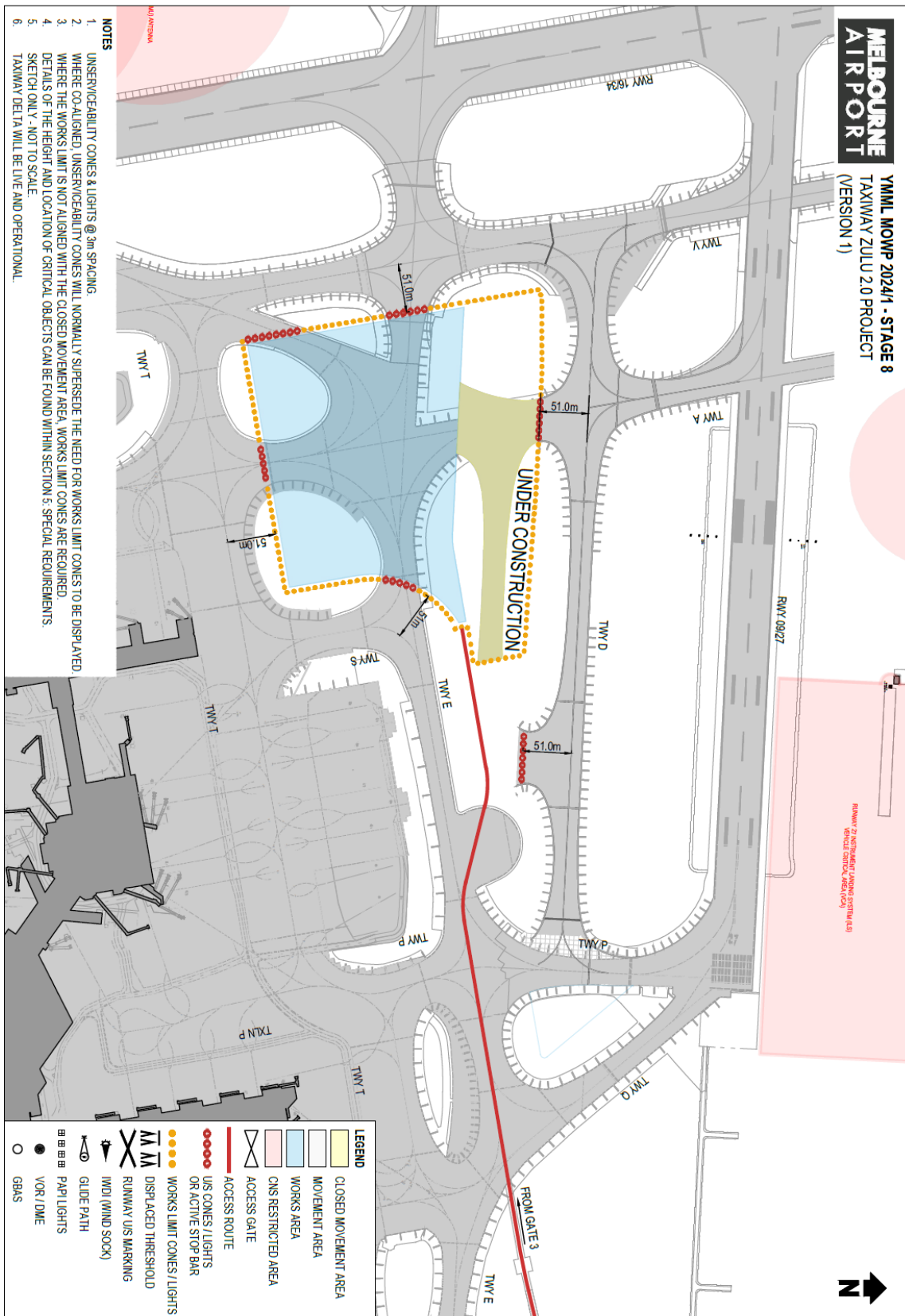
8.7. Stage 6



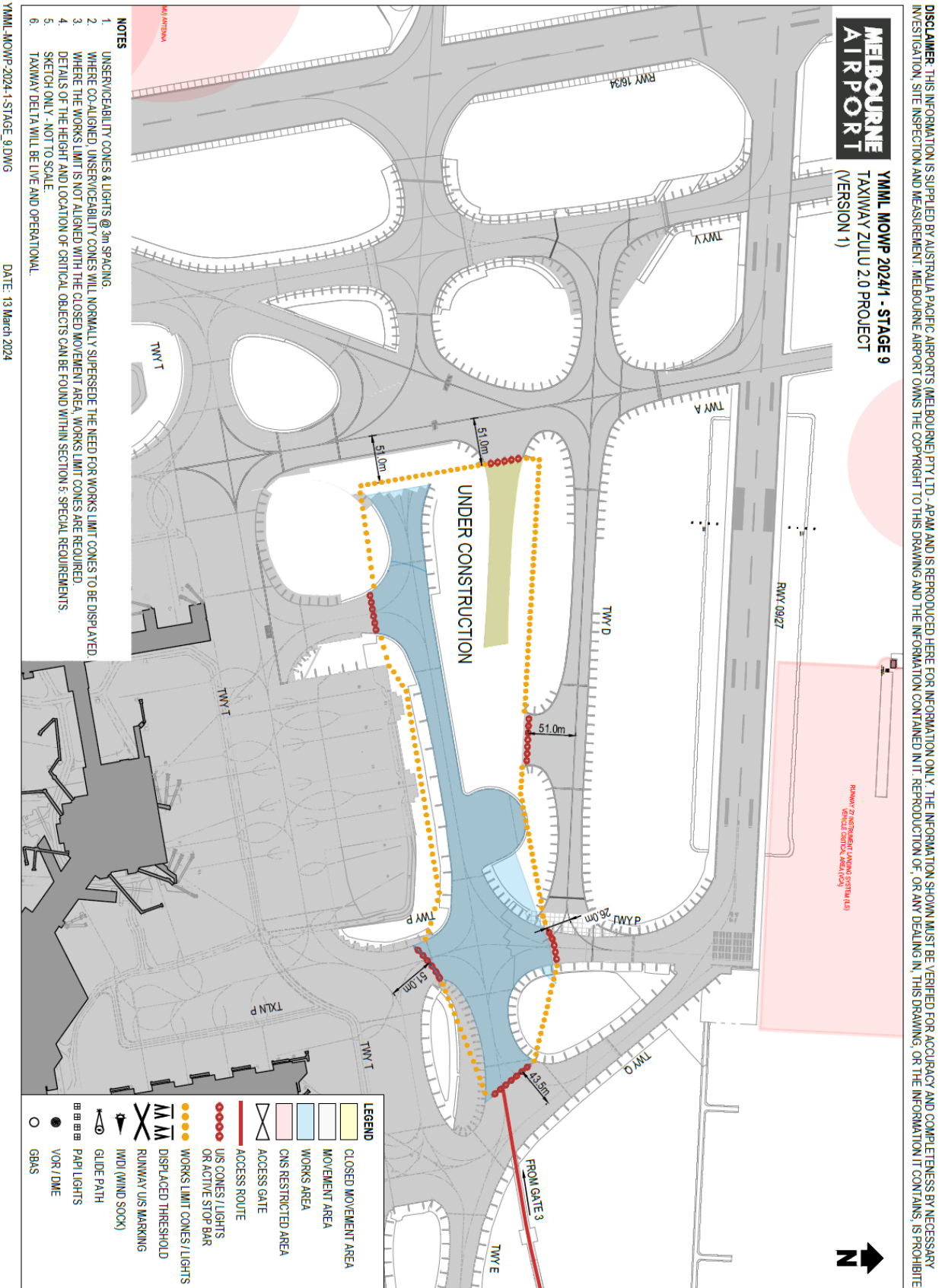
8.8. Stage 7



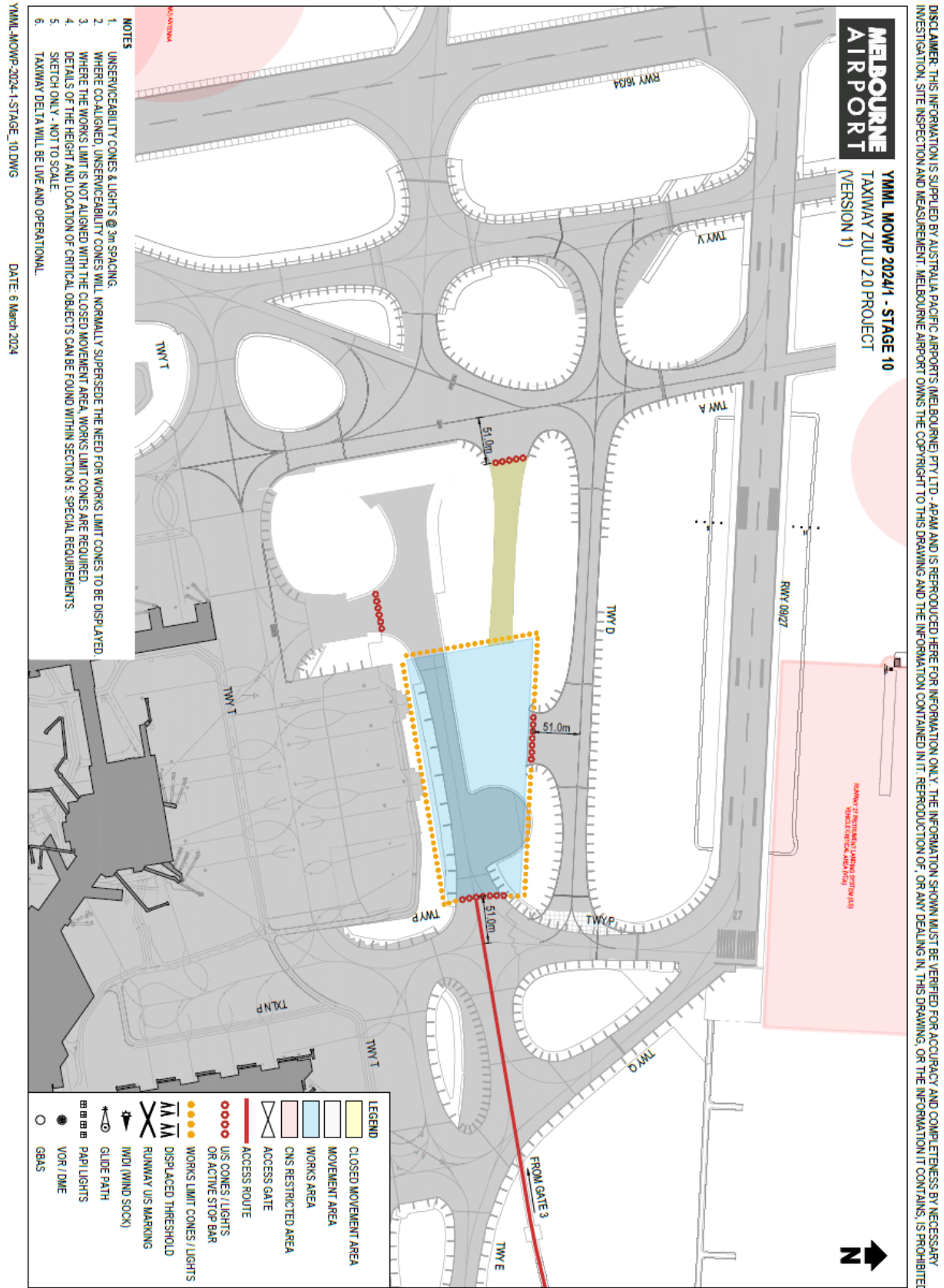
8.9. Stage 8



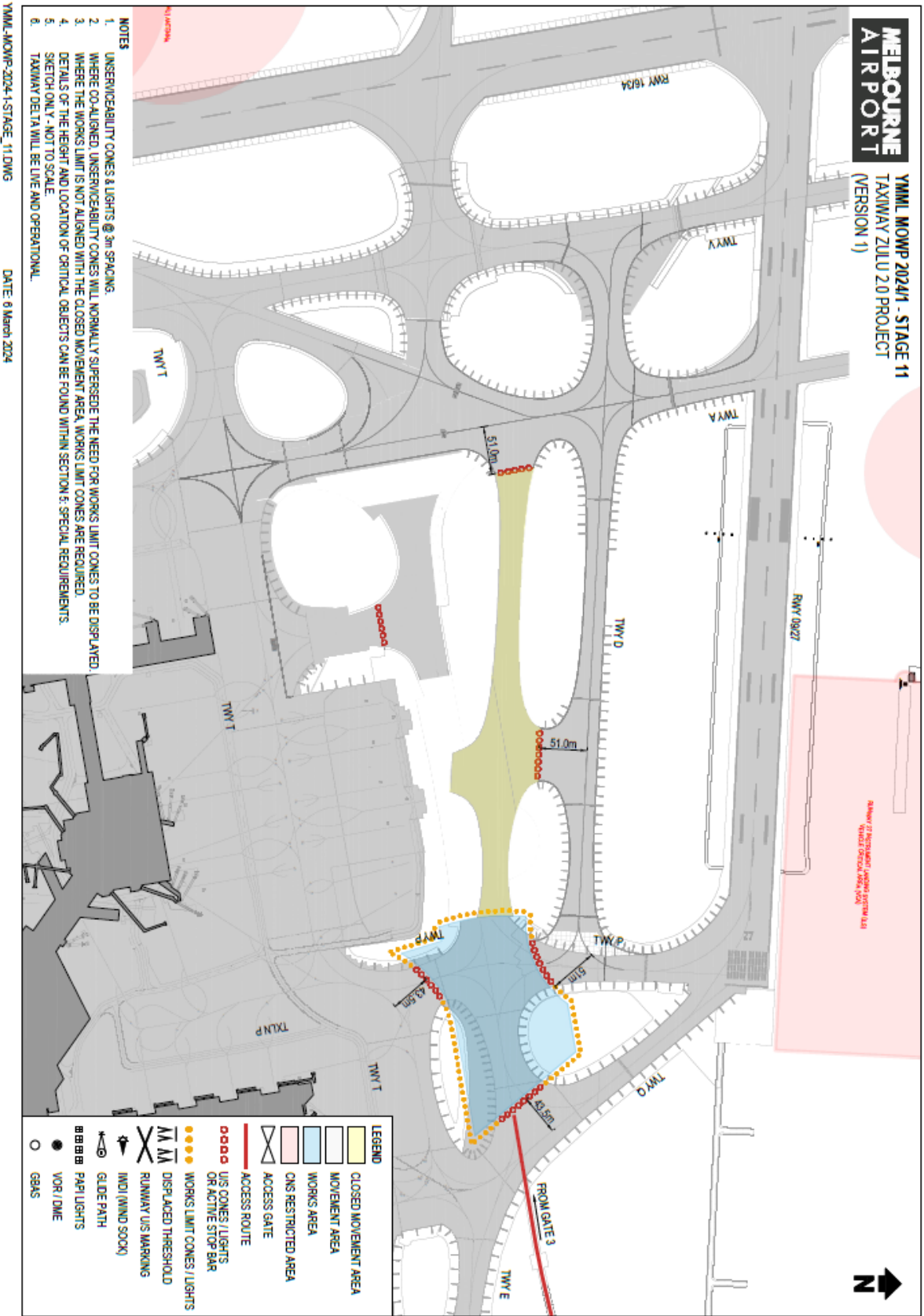
8.10. Stage 9



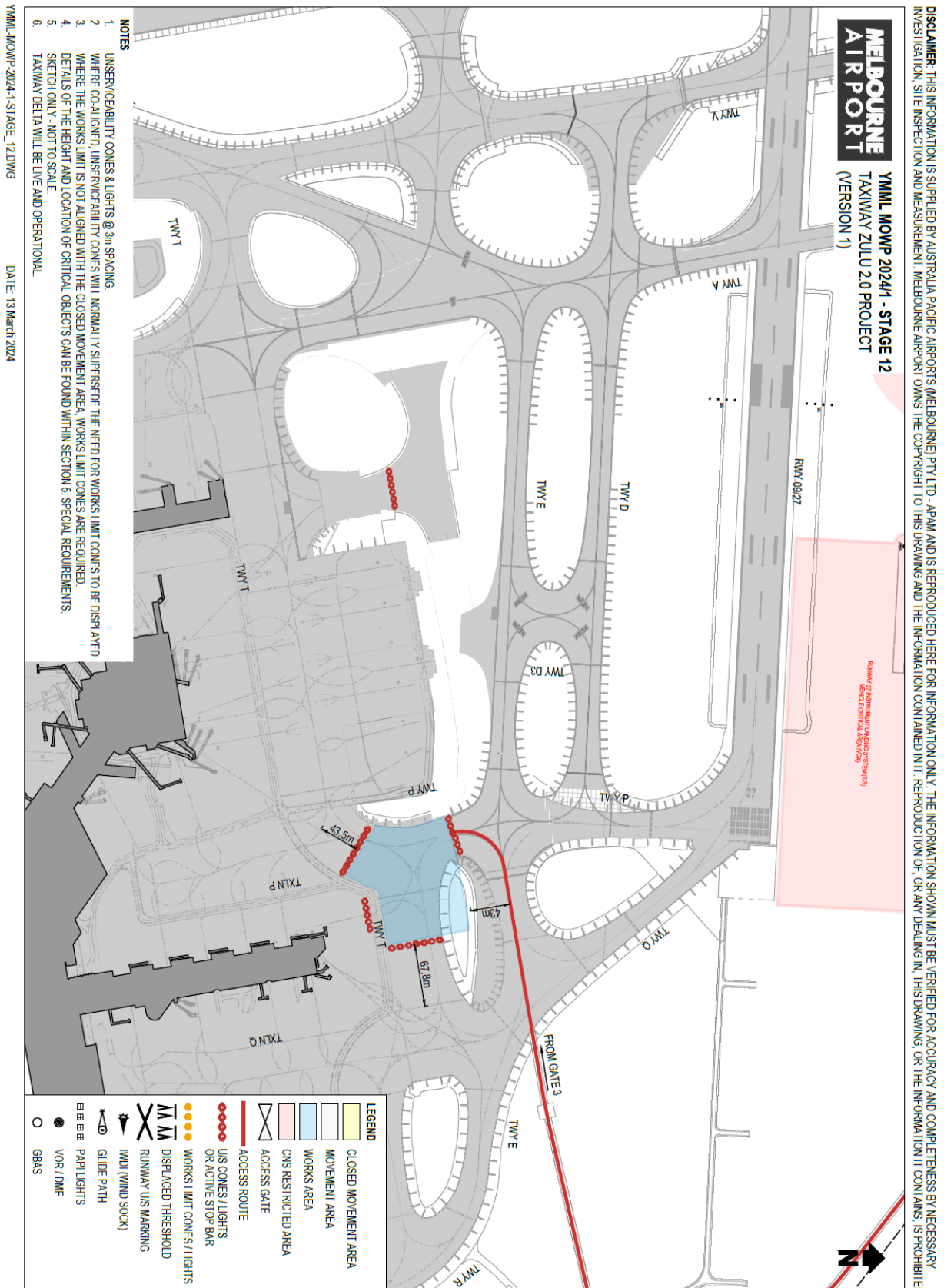
8.11. Stage 10



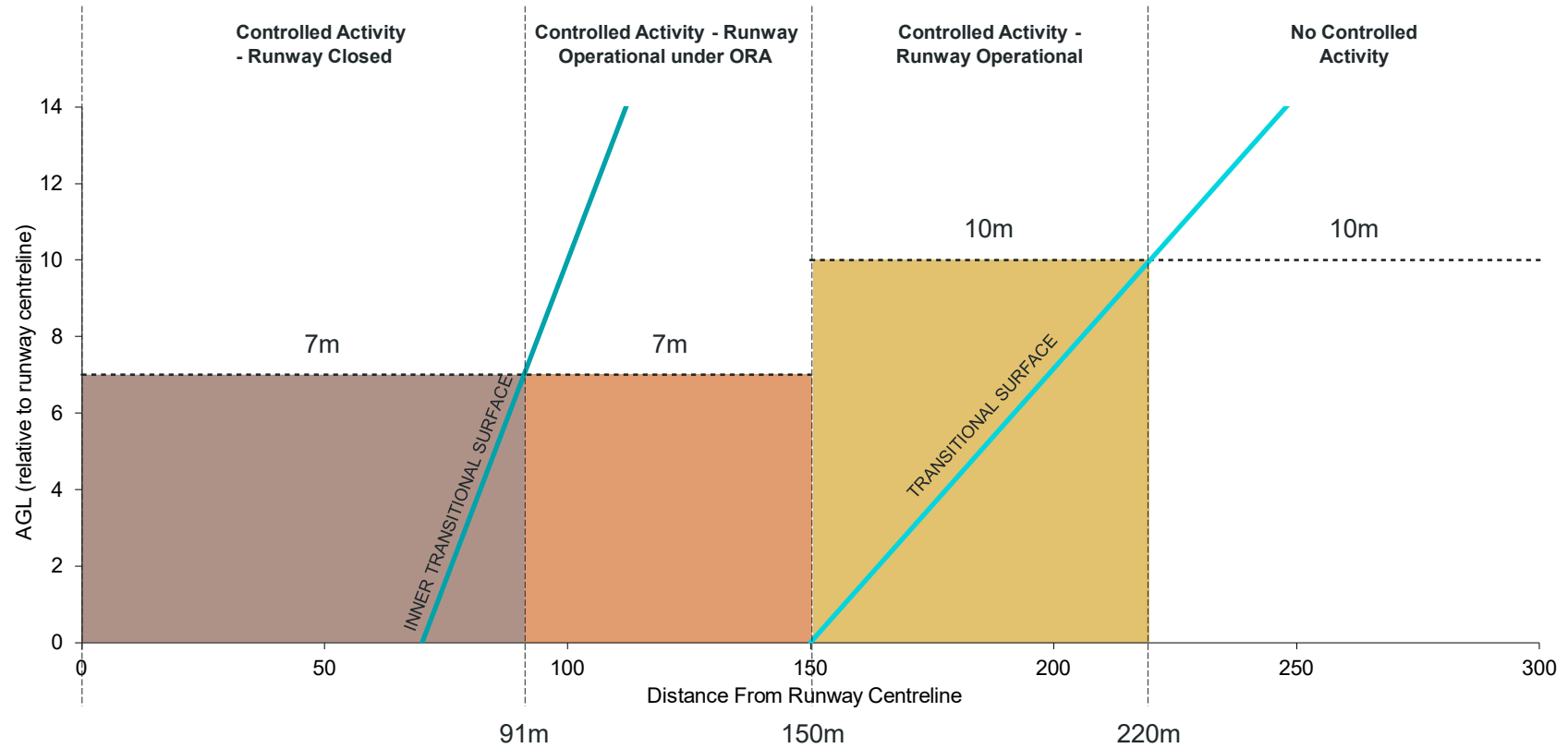
8.12. Stage 11



8.13. Stage 12



8.14. Obstacle Limitation Surface – Runway Status



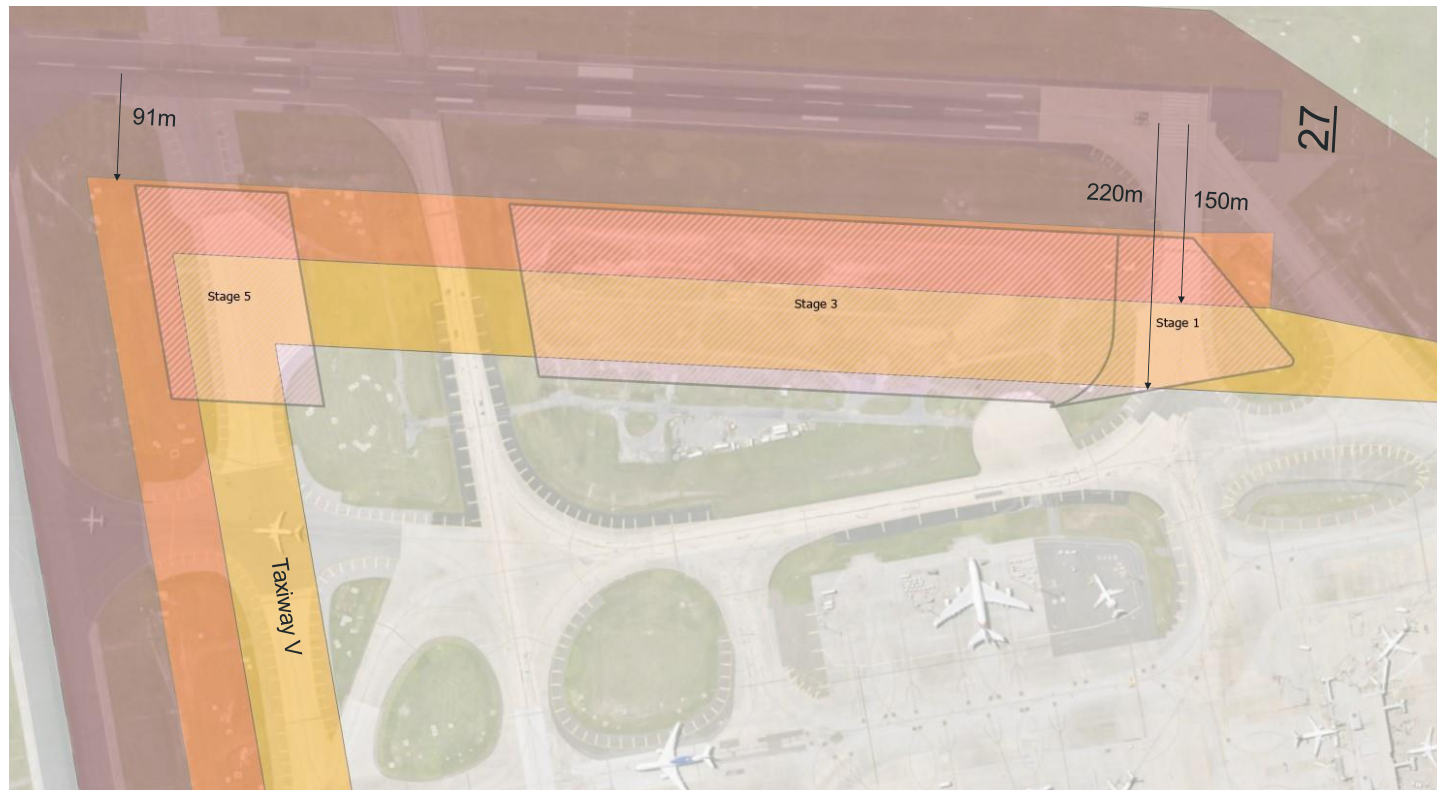
8.15. Height Limit Restrictions – Phase 1

PHASE 1
APRIL – JUNE 2024

	CONTROLLED ACTIVITY- RUNWAY CLOSED DURING WORKS	CONTROLLED ACTIVITY- WORKS WITHIN ORA	CONTROLLED ACTIVITY- RUNWAY OPERATIONAL	NO CONTROLLED ACTIVITY
DISTANCE FROM RUNWAY CENTRELINE	0-91M	91-150M	150-220m	Beyond 220m
WORKING HEIGHT (AGL)	7M	7M	10m	10m

Details

- Works in Stage 1, 3 and 5 areas at 7m and 10m AGL requiring controlled activity approval.
- Works at within Runway Strip in accordance with CASA Instrument CASA.ANAA.0101.2
- Stage 5 works to occurring during nightly closures of Taxiway Victor



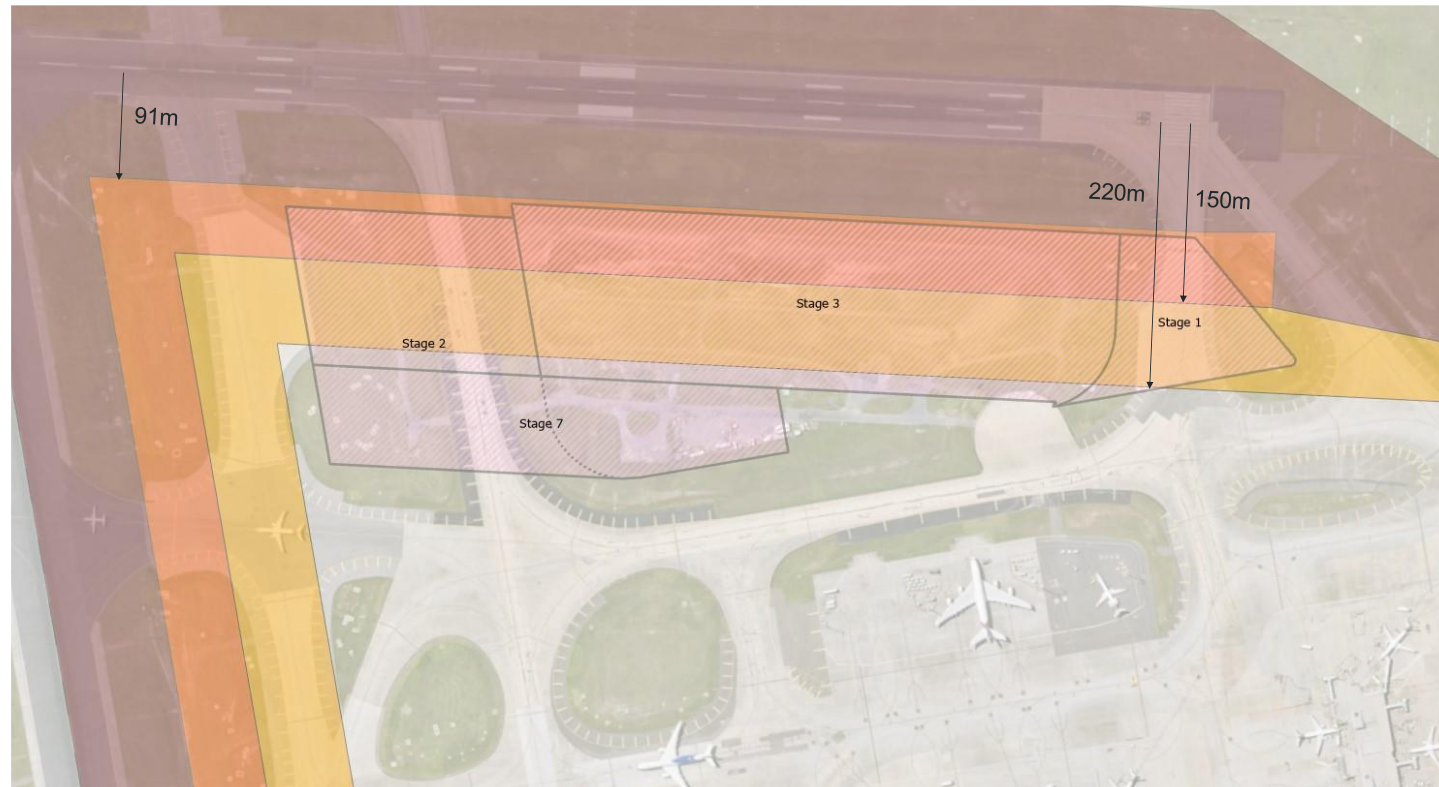
8.16. Height Limit Restrictions – Phase 2

PHASE 2
JUN – AUG 2024

	CONTROLLED ACTIVITY- RUNWAY CLOSED DURING WORKS	CONTROLLED ACTIVITY- WORKS WITHIN ORA	CONTROLLED ACTIVITY- RUNWAY OPERATIONAL	NO CONTROLLED ACTIVITY
DISTANCE FROM RUNWAY CENTRELINE	0-91M	91-150M	150-220m	Beyond 220m
WORKING HEIGHT (AGL)	7M	7M	10m	10m

Details

- Stage 7 does not require a controlled activity approval
- Works in Stage 1, 2 and 3 areas at 7m and 10m AGL requiring controlled activity approval.
- Works at within Runway Strip in accordance with CASA Instrument CASA.ANAA.0101.2



9. Distribution List

This MOWP will be distributed to the organisations and agencies listed below:

Air Canada	Korean Air
Air China	Latam
Air India	Lufthansa Systems Flight Navigation
Air New Zealand	Malaysia Airlines
Air North	Melbourne Airport Precinct (MAP)
Air Vanuatu	Melbourne Airport
AirAsia X	Menzies Aviation Group
AirCalin	Oceania Aviation
Airservices Australia	Pel-Air
Airwork Flight Operations	Philippine Airlines
Asiana Airlines	Pionair
Atlas Air	Polar Air Cargo
Batik Air	Qantas Airways
Bejing Capital Airlines	Qantas Link
Bonza	Qatar Airways
Bureau of Meteorology	Rex Airlines
Cathay Pacific	Royal Brunei Airlines
Cebu Pacific	Scoot
China Airlines	Sharp Airlines
China Eastern Airlines	Sichuan Airlines
China Southern Airlines	Singapore Airlines
Civil Aviation and Safety Authority	Skytanking
Department of Defence	Skytraders
Dnata	Skywest Airlines
Emirates	SriLankan Airlines
Essendon Fields	Tasman Cargo
Etihad Airways	Team Global Express
Express Freighters Australia	Texelair
Fiji Airways	Thai Airways International
Garuda Indonesia	Tianjin Airlines
Hainan Airlines	Turkish Airlines
Heston MRO	United Airlines
ISS Security	Victorian Police Air Wing
Japan Airlines	Vietjet
Jepperson Australia	Vietnam Airlines
Jet City	Virgin Australia
Jetstar	Viva Energy
Kalitta	Xiamen Airlines

The distribution list for this MOWP is maintained by the Airfield Operations and Works Coordinator.

9.1. Further Information

For further information with regards to this **Method of Working Plan**, please contact:

[Airfield Operations & Works Coordinators](#)