

Method of Working Plan

Perth Airport:
2022 Pavement Renewal -
T1 Taxilane, T3 Apron Taxiway, Taxiways Sierra, Bravo and Charlie

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SECTION 1 WORKS INFORMATION

This Method of Working Plan details the maintenance works required to provide resurfacing of various Taxiways and Taxilanes for the year 2022.

The project scope of works includes:

- Isolation and removal of existing taxi centreline lighting;
- Excavation and removal of existing asphalt surfacing to 50mm or 100mm below ground level;
- Trenching and laying conduits for AGL, backfill and reinstate;
- Preparation of the exposed excavation including cleaning and priming;
- Laying new asphalt surfacing;
- Reinstatement and commissioning of taxi centreline lighting; and
- Reinstatement of line marking.

The works shall be split into seven (7) stages with the affected aerodrome facilities and planned dates outlined in the table below. The planned dates are subject to refinement, revision of this MOWP will occur if changes to planned dates exceed 2 weeks. The actual date and time of commencement will be advised by a NOTAM, to be issued not less than 48 hours before work commences.

Sequence	Works Area	Aerodrome Facility Affected	Planned Dates (2022)	Duration
1	Stage 3	T1 Taxilane Bays 150 to 153 (some Time Limited Works in stage 2) 24 Hour Closure	04 April to 14 April	11 days
2	Stage 2	T1 Taxilane Bays 152 to 153 and 162 24 Hour Closure	19 April to 27 April	9 days
3	Stage 1	T1 Taxilane & Taxiway Sierra Bays 153 to 156 and 160, 161 Nightly Closure - 0000 to 1200 Local	28 April to 7 May	10 days
4	Stage 7	T3 Apron Taxiway Bays 19 to 24, Bay SO914,915 and 916 Nightly Closure – 2000 – 0430 Local	09 May to 13 May	5 days
5	Stage 4	Taxiways Charlie, Papa & T1 Taxilane Daily Closure – 0800 to 1700 Local	16 May to 17 May	2 days
6	Stage 6	Taxiways Bravo Includes closure of Whiskey during MOWP 001/22 Stage 1B or 1D Daily Closure 0800 to 1700 Local	19 May to 24 May	6 days
7	Stage 5	Taxiways Charlie & Papa Daily Closure – 0800 to 1700 Local	27 May to 28 May	2 days

SECTION 2 RESTRICTIONS TO AIRCRAFT OPERATIONS

2.1 Aircraft Restrictions by Works Stages

There are some significant restrictions to aircraft during the aerodrome upgrade works as shown in the table below. Typical NOTAM text is as follows, with closure timings to be notified a minimum of 48 hours prior to the closure.

Works Stage	Planned Dates / Times	Restrictions and Remarks	NOTAM
<p>Stage 3</p>	<p>04 April to 14 April</p> <p>24-hour Closure until works complete</p>	<p>T1 Taxilane Resurfacing</p> <p><u>Restrictions (Taxiways/Taxilanes) –</u></p> <ul style="list-style-type: none"> T1 Taxilane behind Bays 151 and 152 not available. <p><u>Restrictions (Parking Bays) –</u></p> <p>Arrivals</p> <ul style="list-style-type: none"> Bay 150 and 150B to shut down abeam Bay 150A and tow onto Bay. Bay 153 and 162A to shut down on Taxiway Sierra and tow onto Bay. <p>Departures</p> <ul style="list-style-type: none"> Bay 153 to push back tail east only Bay 150 push back tail west onto Taxiway Charlie and disconnect on Taxiway Charlie. Bay 150A and 150B use modified push back (refer drawings) and tow forward to abeam Bay 148 prior to engine start. Bay 149, 149A and 149B tow forward to abeam Bay 148 prior to engine start. <p>Bays not available</p> <ul style="list-style-type: none"> 151, 151A, 151B, 152, 162, 162B, 163, 163A and 163B. <p>Pavement resurfacing works will occur on T1 Taxilane Tango between Parking Bays 151 and 152 and this area will be unavailable for use during the whole works period. The unserviceable areas will be marked by red and white cones and red lighting.</p> <p>Time Limited Works (TLW) will occur in Stage 2 removing light fittings in preparation for the pavement works. Only light fittings blanked out for Stage 32 works will be removed.</p> <p>Works areas that require the works organisation to temporarily pullback for momentary aircraft movements will be managed by the Works Safety Officer.</p>	<p>A) PERTH – YPPH</p> <p>B) 2022 04 DD 0000</p> <p>C) 2022 04 DD 0900</p> <p>D) -</p> <p>E) T1 TAXILANE BEHIND BAY 151 AND 152 NOT AVBL DUE WIP</p> <p>ARRIVALS TO BAY 150 AND 150B TO SHUT DOWN ABEAM BAY 150A PRIOR TO TOW ONTO BAY</p> <p>ARRIVALS TO BAY 153 AND 162A TO SHUT DOWN ON TWY S PRIOR TO TOW ONTO BAY</p> <p>DEPARTURES FROM BAY 150 TO PUSHBACK TAIL WEST ONTO TWY C PRIOR TO DISCONNECT ON TWY C</p> <p>DEPARTURES FROM BAY 149 149A-B AND 150A-B TO PUSH BACK AND TOW FORWARD TO ABEAM BAY 148 PRIOR TO ENGINE START</p> <p>REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 3.</p>

Works Stage	Planned Dates / Times	Restrictions and Remarks	NOTAM
Stage 2	19 April to 27 April 2022 24-hour Closure until works complete	<p>T1 Taxilane Resurfacing</p> <p><u>Restrictions (Taxiways/Taxilanes) –</u></p> <ul style="list-style-type: none"> T1 Taxilane behind Bay 153 not available. <p><u>Restrictions (Parking Bays) –</u></p> <p>Arrivals</p> <ul style="list-style-type: none"> Bays 154-156 161A and 160R to shut down on Taxiway Sierra and tow onto Bay. <p>Departures</p> <ul style="list-style-type: none"> Bay 150, 150B, 151, 151A, 151B, 163, 163A and 163B tow forward to abeam Bay 150 prior to engine start. Bay 152 (Code C and below) and Bay 162B use modified push back (refer drawings) and tow forward to Bay 150 prior to engine start. Bay 152 Code D and above push back tail west onto Taxiway Charlie and disconnect on Taxiway Charlie. Bay 154 push back tail east and tow forward to Taxiway Sierra prior to engine start. Bays 155-156 156A-B 160, 160A-D, 161 and 161R to tow forward to Taxiway Sierra prior to engine start. <p>Bays not available</p> <ul style="list-style-type: none"> 153, 162 and 162A. <p>Pavement resurfacing works will occur on T1 Taxilane between Taxiway Sierra and Parking Bay 152. This area will be unavailable for use during the whole works period. The unserviceable areas will be marked by red and white cones and red lighting.</p> <p>Works areas that require the works organisation to temporarily pullback for momentary aircraft movements will be managed by the Works Safety Officer.</p>	A) PERTH – YPPH B) 2022 04 DD 0000 C) 2022 04 DD 0900 D) - E) T1 TAXILANE BEHIND BAY 153 NOT AVBL DUE WIP ARRIVALS TO BAYS 154-156 161A AND 160R TO SHUT DOWN ON TWY S PRIOR TO TOW ONTO BAY DEPARTURES FROM 154-156 156A-B 160 160A-D 161 and 161R TO TOW FORWARD TO TWY S PRIOR TO ENGINE START CODE D AND ABOVE DEPARTURES FROM BAY 152 TO PUSHBACK TAIL WEST ONTO TWY C PRIOR TO DISCONNECT ON TWY C DEPARTURES FROM BAY 150 150B 151 151A-B 152(CODE C AND BELOW) 163 163A-B AND 162B TO PUSH BACK AND TOW FORWARD TO ABEAM BAY 150 PRIOR TO ENGINE START REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 2.

Works Stage	Planned Dates / Times	Restrictions and Remarks	NOTAM
Stage 1	28 April to 7 May 2022 0000 – 1200 Local Nightly Closure (1600 – 0400 UTC)	<p>T1 Taxilane & Taxiway Sierra Resurfacing</p> <p><u>Restrictions (Taxiways/Taxilanes) –</u></p> <ul style="list-style-type: none"> • Twy Sierra between RWY 06/24 and the Terminal 1 Apron not available; • T1 Taxilane to the east of Twy Sierra not available; • Airfield Ground Lighting not available Twy Sierra and T Lane (H24 throughout planned dates). <p><u>Restrictions (Parking Bays) –</u></p> <p>Departures</p> <ul style="list-style-type: none"> • Bay 153 available for arrival only, no departures <p>Bays not available</p> <ul style="list-style-type: none"> • 154, 155, 156, 160, 160 A-D, 161 and 161R. <p>Pavement resurfacing works will occur on a nightly basis, between midnight and midday at the intersection of Taxiway Sierra and T1 Taxilane and this area will be unavailable for use during the stated times. The unserviceable areas will be marked by red and white cones and red lighting.</p> <p>Airfield Ground Lighting in the affected areas will be unavailable for the whole works period. A 'FOLLOW ME' service is available, if required, for aircraft manoeuvring outside of works shifts.</p> <p>Works areas that require the works organisation to temporarily pullback for momentary aircraft movements will be managed by the Works Safety Officer.</p>	<p>A) PERTH – YPPH</p> <p>B) 2022 04 DD 1600</p> <p>C) 2022 05 DD 0400</p> <p>D) 1600 TO 0400 DAILY – MONDAY TO SATURDAY</p> <p>E) TWY S BTN RWY 06/24 AND T1 APN NOT AVBL DUE WIP</p> <p>T1 TAXILANE EAST OF TWY S NOT AVBL DUE WIP</p> <p>REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 1.</p> <p>A) PERTH – YPPH</p> <p>B) 2022 04 DD 1600</p> <p>C) 2022 05 DD 0400</p> <p>D)</p> <p>E) TWY LGT AT INTERSECTION OF TWY S AND T1 APN NOT AVBL DUE WIP</p> <p>REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 1.</p>

Works Stage	Planned Dates / Times	Restrictions and Remarks	NOTAM
Stage 7	09 May to 13 May 2022 2000 – 0430 Local Nightly Closure (1200 – 2030 UTC)	<p>T3 Apron Taxiway Resurfacing</p> <p><u>Restrictions (Taxiways/Taxilanes) –</u></p> <ul style="list-style-type: none"> T3 Apron Taxiway between the T3 Taxilane to behind Bay 20 not available; Airfield Ground Lighting behind Bay 20 not available (H24 throughout planned dates). <p><u>Restrictions (Parking Bays) –</u></p> <p>Movements from the apron taxiway to/from Bays 21-24 tow only (repositioning).</p> <p>Departures</p> <ul style="list-style-type: none"> Bays 18, 18A and 19 tow forward to abeam Bay 17 prior to engine start. <p>Bays not available</p> <ul style="list-style-type: none"> 20, 20A, SO914 and 915. <p>Pavement resurfacing works will occur on a nightly basis, at the intersection of the T3 Apron Taxiway and the T3 Taxilane and this area will be unavailable for use during the stated times. The unserviceable areas will be marked by red and white cones and red lighting.</p> <p>Airfield Ground Lighting in the affected areas will be unavailable for the whole works period. A ‘FOLLOW ME’ service is available, if required, for aircraft manoeuvring outside of works shifts.</p> <p>Works areas that require the works organisation to temporarily pullback for momentary aircraft movements will be managed by the Works Safety Officer.</p>	<p>A) PERTH – YPPH B) 2022 05 DD 1200 C) 2022 05 DD 2030 D) 1200 TO 2030 DAILY E) T3 APN TWY BEHIND BAY 20 NOT AVBL DUE WIP</p> <p>DEPARTURES FROM BAYS 18 18A AND 19 TO PUSH BACK AND TOW FORWARD TO ABEAM BAY 17 PRIOR TO ENGINE START</p> <p>REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 7.</p> <p>A) PERTH – YPPH B) 2022 05 DD C) 2022 05 DD D) 1200 TO 2030 DAILY E) T3 APN TWY LGT BEHIND BAY 20 NOT AVBL DUE WIP</p> <p>REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 7.</p>

Works Stage	Planned Dates / Times	Restrictions and Remarks	NOTAM
Stage 4	16 May to 17 May 2022 0800 – 1700 Local Daily Closure (0000 – 0900 UTC)	<p>Taxiway Charlie Resurfacing</p> <p><u>Restrictions (Taxiways/Taxilanes) –</u></p> <ul style="list-style-type: none"> • Taxiway Charlie between Taxiway Papa and Runway 06/24, not available. • Taxiway Papa restricted to narrow body aircraft. • Entry/Exit from Taxiway Charlie to T1 Taxilane Tango not available. <p><u>Restrictions (Parking Bays) –</u></p> <p>Departures</p> <ul style="list-style-type: none"> • Bays 148, 148A-B, 149 and 149A-B push back tail west and tow forward to abeam Bay 149 prior to engine start. <p>Pavement resurfacing works will occur on Taxiway Charlie between Taxiway Papa and Runway 06/24. Taxiway Charlie to the south of Taxiway Papa will be available for Code C and below aircraft.</p> <p>The intersection of Taxiway Charlie and the T1 Taxilane Tango will also be unavailable, meaning aircraft arriving and departing from T1 are to use Taxiway Sierra.</p> <p>The unserviceable movement areas will be marked by red and white cones and red lighting (if night shift).</p> <p>Works areas that require the works organisation to temporarily pullback for momentary aircraft movements will be managed by the Works Safety Officer.</p>	A) PERTH – YPPH B) 2022 05 DD 0000 C) 2022 05 DD 0900 D) 0000 TO 0900 DAILY E) TWY C BTN RWY 06/24 AND TWY P NOT AVBL DUE WIP TAXILANE T NOT AVBL TWY P RESTRICTED TO CODE C AND BELOW DEPARTURES FROM BAY 148 148A-B 149 AND 149A-B TO PUSH BACK TAIL WEST AND TOW FORWARD TO ABEAM BAY 149 PRIOR TO ENGINE START REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 4.

Works Stage	Planned Dates / Times	Restrictions and Remarks	NOTAM
Stage 6	19 May to 24 May 2022 0800 – 1600 Local Daily Closure (0000 – 0800 UTC)	<p>Taxiway Bravo Resurfacing</p> <p><u>Restrictions (Taxiways/Taxilanes) –</u></p> <ul style="list-style-type: none"> • Taxiway Bravo between Taxiway Whiskey and the 700 Lane not available. <p>Pavement resurfacing works will be at the intersection of Taxiways Bravo and Whiskey. This resurfacing work is scheduled to occur at the same time as the regular Friday maintenance closure of Runway 03/21, refer MOWP 001/22 Stage 1B or 1D.</p> <p>Lighting works will occur on Taxiways Bravo and Whiskey as time limited works throughout the period.</p> <p>Access to the 700 parking bays shall be maintained during the works period.</p> <p>Airfield Ground Lighting in the affected areas will be unavailable for the whole works period. A ‘FOLLOW ME’ service is available, if required, for aircraft manoeuvring outside of works shifts.</p>	<p>A) PERTH – YPPH B) 2022 05 DD 0000 C) 2022 05 DD 0800 D) 0000 TO 0800 MONDAY TO SATURDAY E) TWY B BTN TWY W AND 700 LANE NOT AVBL DUE WIP</p> <p>REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 6.</p> <p>A) PERTH – YPPH B) 2022 MM DD C) 2022 MM DD D) HN E) TWY B LGT AT INTERSECTION WITH TWY W NOT AVBL DUE WIP.</p> <p>REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 6.</p>

Works Stage	Planned Dates / Times	Restrictions and Remarks	NOTAM
<p>Stage 5</p>	<p>27 May to 28 May 2022</p> <p>0800 – 1700 Local Daily Closure (0000 – 0900 UTC)</p>	<p>Taxiway Charlie Resurfacing</p> <p><u>Restrictions (Taxiways/Taxilanes) –</u></p> <ul style="list-style-type: none"> • Taxiway Charlie between Taxiway Papa and Link 4, not available. • Taxiway Papa restricted to narrow body aircraft <p>Pavement resurfacing works will occur on Taxiway Charlie between Taxiway Papa and Link 4.</p> <p>The unserviceable movement areas will be marked by red and white cones and red lighting (if night shift).</p> <p>Works areas that require the works organisation to temporarily pullback for momentary aircraft movements will be managed by the Works Safety Officer.</p>	<p>A) PERTH – YPPH</p> <p>B) 2022 05 DD 0000</p> <p>C) 2022 05 DD 0900</p> <p>D) 0000 TO 0900 DAILY</p> <p>E) TWY C BTN TWY P AND LINK 4 NOT AVBL DUE WIP</p> <p>TWY P RESTRICTED TO CODE C AND BELOW</p> <p>REFER METHOD OF WORKING PLAN YPPH 002/22 STAGE 5.</p>

2.2 Aircraft Emergencies

The planned works do not affect the serviceability of any Runways.

Taxiways will not be able to be re-opened for aircraft emergencies; alternate taxi routes are available to avoid works areas.

2.3 Airport Emergencies

If an incident should occur at Perth Airport and emergency procedures are activated as detailed in the Perth Airport Aerodrome Emergency Plan, based on the size and scale of the incident, works may be suspended or ceased for that shift.

The Airfield Duty Manager is responsible for communicating suspensions or cessations to the works party during an emergency.

2.3.1 Aviation Rescue & Fire Fighting Service (ARFFS)

Due to the nature of the works (which includes excavations and trenching) ARFFS vehicles will NOT be permitted through the closed works areas and should request routing from ATC that avoids active works areas.

When responding to an incident in or near an active work site ARFFS vehicles shall be limited to a maximum speed of 40km/h.

2.4 Adverse Weather Conditions and Low Visibility Operations

Adverse weather such as very heavy showers, storms or fog may result in a cancelled works shift. Perth Airport, ATC and the Contractor will consult as a group prior to each shift to determine if the weather forecast is not suitable for works to commence.

Should adverse weather such as very heavy showers, storms or fog generate after the work shift has commenced, Perth Airport, ATC and the Contractor will consult as a group to determine if the weather event requires a suspension.

Low visibility procedures commence when visibility falls below 2,250m or ATC is not able to observe any part of the manoeuvring area due to fog, rain squalls, dust storms, smoke or low cloud.

During low visibility procedures, vehicular movements airside are restricted to those servicing aircraft and emergency vehicles in the event of an emergency, meaning works must cease. When low visibility procedures commence an Ops Advice notification will be issued and airside access through gates 1, 4 & 14 will be restricted to only those vehicles required to service aircraft. Vehicles already airside and not required for servicing aircraft must leave the airside by the closest gate or park in their designated airside area.

In certain circumstances sections of the airside road network may be closed. Drivers must look out for road closures and take alternate routes as required. Closures will be notified by a Perth Airport Notice (PAN) when low visibility procedures are activated.

During low visibility procedures drivers must exercise extreme caution and pay closer attention to their surroundings. Speed must be reduced to ensure the driver can identify hazards and aircraft manoeuvring in the vicinity. If in doubt or unsure of their surroundings, the driver should proceed to the nearest storage or parking area and cease driving activities.

SECTION 3 PERSONNEL AND EQUIPMENT

The following restrictions apply to personnel and equipment undertaking the works. Regarding aircraft safety and airport security, this MOWP will take precedence over other contract documents that may be in place for any person to carry out works at the Airport.

All personnel associated with the work shall be bound by the instructions issued by the Works Safety Officer (WSO). All Contractors or Sub-Contractors must be directly supervised by a Works Safety Officer. If there are concurrent works stages occurring, each works area must have its own dedicated WSO. The WSO must not leave the works area whilst personnel and equipment are present in the work area, meaning that additional escort personnel will be required to transfer the works personnel and vehicles to and from the airside area.

Works will be confined to the works limit areas, as shown on the attached drawings.

3.1 Restrictions by Location

Works Location	Works Restriction
All stages – Pre-Construction	Pre-construction survey works to be undertaken on a Time Limited Works basis with maximum 2 minute recall.
Stage 1	Pull back area to be observed for Code E aircraft using Bay 153, as shown on the attached drawings. Pull back may be required for push back from Bays 162 and 162A-B
Stage 2	Pull back area to be observed for all aircraft using Taxiway Sierra, as shown on the attached drawings.
Stage 3	Pull back area to be observed for Code C and E aircraft using Bays 150, 150B, 153 and 162A, as shown on the attached drawings.
Stage 4	Pull back area to be observed for Code C aircraft using Taxiway Papa, as shown on the attached drawings.
Stage 5	Pull back area to be observed for Code C aircraft using Taxiway Papa, as shown on the attached drawings.
Stage 6	Pull back area to be observed for all aircraft using Taxiway Whiskey, as shown on the attached drawings. Caution Jet Blast for aircraft turning from the 700 lane left onto Taxiway Whiskey
Stage 7	Pull back area to be observed for Code C aircraft using the T3 Taxilane, as shown on the attached drawings. Pull back may be required for push back from Bays 916 and 19

3.2 Pull Back / Recall

During stages identified in the table above, where works are conducted on a recall or pull back basis, all personnel and equipment will be clear of the relevant pull back zone after notification from the WSO to allow for momentary traffic movements.

3.3 Access

Access routes to each site are via the marked apron roadways or existing tracks as identified in the attached drawings. Access to or across active areas of the manoeuvring area shall be under escort of a Works Safety Officer with the appropriate driving authority. The Contractor will observe the Limit of Works markers and at all times shall remain within the defined area as detailed in the attached stage drawings.

3.4 Foreign Object Debris

Foreign Object Debris (FOD) is any item (from small stones to equipment) on the manoeuvring area that is not intended to be there. FOD is a significant hazard to aircraft operations.

The Contractors must leave the works area in an acceptable operational condition to the full satisfaction of the WSO prior to the completion of the work period. This is an essential safety requirement which must be achieved within the prescribed time periods for each stage to ensure minimal disruption to airfield operations.

Where pull backs are identified for Jet Blast the contractor must keep the work area free from FOD at all times during the works and not use this zone for equipment lay down.

The Contractors shall be responsible for the cleanliness of the work areas together with its access routes for the duration of the works. All loose material and equipment must be secured against movement in strong wind or by aircraft jet blast. The occurrence of dust, debris and loose foreign materials is to be minimised to the satisfaction of the WSO. The Contractors shall employ continuous approved methods of dust suppression and debris removal throughout the duration of the works and at other times when directed by the WSO.

Vehicles transporting materials to or from the site shall, prior to movement, be cleaned in all areas where materials may lodge including body rails, wheels, wheel arches, tailgates and rear fittings to the full satisfaction of the WSO.

3.5 Jet Blast

Jet Blast is the exhaust (thrust) from aircraft engines which, for a Boeing 777, can reach a velocity of 400kph.

Works sites have been assessed for potential exposure to jet blast.

Works Location	Jet Blast
All Stages	All stages have some potential for jet blast – pull back zones as shown on the drawings are to be observed

On all works sites, jet blast remains a constant hazard at Perth Airport and all works personnel should use caution when working close to taxiways or behind aircraft.

Light materials, tools and equipment must be secured always when not in use (or where possible, when in use) if there is a risk of exposure to jet blast.

3.6 Vehicle/Equipment Condition

All vehicles and plant shall be in full working condition to ensure full mobility around the work areas as required. Unserviceable or mechanically unsound vehicles and plant shall be removed from the work area as directed by the Works Safety Officer or the Project Manager and shall be replaced by fully serviceable plant.

All vehicles and plant must have a flashing amber beacon. WSO vehicles must have both air band radios and VeeLo (electronic surveillance equipment) as required by the Perth Airport Operating Standard AOS005 - *Airside Safety & Driving*.

3.7 Vehicle & Personnel Separation

Works supervisors shall plan works to eliminate, or minimise as far as practicable, the interaction between vehicles and personnel on foot. Separation is especially important during Airfield Ground Lighting works when personnel are crouched to work.

3.8 Aerodrome Obstacle Management

Vehicles, plant and equipment must remain below the Obstacle Limitation Surface (OLS) associated with the two runways, however the nature and locations of the taxiway resurfacing works is not expected to infringe the OLS:

- Stage 4 works on Taxiway Charlie are offset approximately 70m from the edge of the Runway 06/24 overall Runway Strip meaning a height restriction of 10m exists. Operations above 10m will require specific written approval from the Works Safety Officer.
- Stage 5 works on Taxiway Charlie are offset approximately 150m from the edge of the Runway 03/21 overall Runway Strip meaning a height restriction of 21m exists.
- Stage 6 works at Taxiway Bravo/Whiskey intersection is the closest a particular stage is located to a runway and is to be conducted during the Runway 03/21 regular Friday maintenance closure;
- All other works stages are offset much further back from runways and no infringement to the OLS' is expected from works activities.

Should approval be required, this is provided by the issuing of a Crane Permit via the Perth Airport – Protected Airspace Assessment Tool (PAAT) available via the following link <https://paat.perthairport.com.au>

Crane Permits do not constitute an approval for the operation itself; it is a permit to operate at a nominated height above ground. The Contractor is to ensure any other approval required under the Construction Safety Management Plan for the operation is obtained.

3.9 Vehicle Critical Areas

Vehicle Critical Areas (VCA) are protected areas around air navigation equipment. No works are planned to take place within an active VCA and as a result all vehicles will remain clear of critical areas.

3.10 Security and Emergency

All personnel entering the work site must display either a current ASIC or a Visitor Identification Card. These cards or passes must be displayed always. The Contractor's Superintendents will be responsible for the employees, subcontractors and personnel under their control.

The Works Safety Officer may refuse access to persons who in their opinion are likely to present a safety risk to airfield operations.

Communicating Incidents to Perth Airport

All life-threatening incidents must be immediately reported to Emergency Services on 000.

The contractor is responsible for ensuring that Emergency Incidents are also reported to **Perth Airport ACC on 9478 8500**. This includes fires or hazards. Upon notification to ACC the WSO supervising the works site must be notified.

3.11 Works Safety Officers

The WSOs for these works will be contracted WSOs overseen by the Airfield Duty Managers.

3.11.1 Airfield Duty Manager's Responsibilities

The Airfield Duty Manager's responsibilities include, but are not limited to the following:

- Attend the works organisations daily shift briefing;
- Ensure the safety of aircraft operations in accordance with the standards for aerodrome works and this MOWP;
- Ensure that, where applicable, the aerodrome works are notified by issue of a NOTAM and that the text of each published NOTAM is exactly as set out in this MOWP;
- Supply the ATC Shift Manager, daily, with whatever information is necessary to ensure the safety of aircraft operations; and
- Ensure that the movement area is safe for normal aircraft operations following removal of vehicles, plant, equipment, personnel and FOD from the works area.

3.11.2 Works Safety Officer's Responsibilities

The Works Safety Officer's responsibilities include, but are not limited to the following:

- Attend both the PAPL Airfield Operations shift briefing and the works organisations daily shift briefing.
- Ensure the safety of aircraft operations in accordance with the standards for aerodrome works and this MOWP;
- Check, daily, that the text of any NOTAM associated with the works is exactly as set out in this MOWP or its amendments;
- Complete the AST03 – WSO Site Inspection Checklist once per stage.
- Supply the ATC Shift Manager, as required, with whatever information is necessary to ensure the safety of aircraft operations;
- Regularly obtain movement updates from ACC and engage with Ground Handlers to confirm push back restrictions as set out in this MOWP are understood prior to arrival and departures;
- Ensure works personnel and equipment are clear of pull back areas sufficiently ahead of aircraft movements;
- Discuss with the works organisation, daily, any matters necessary to ensure the safety of aircraft operations;
- Ensure that unserviceable portions of the movement area, temporary obstructions, and the limits of the works area are correctly marked and lit in accordance with MOS Part 139 and this MOWP;
- Ensure that the vehicles, plant and equipment carrying out aerodrome works are properly marked and lit or are under works safety officer supervision or within properly marked and lit works area;
- Ensure that all other requirements of the directions and MOWP relating to vehicles, plant, equipment and materials are complied with;
- Ensure that access routes to work areas are in accordance with the applicable MOWP and clearly identified, remain free from FOD at all times and that access is restricted to these routes;
- Report immediately to the air-traffic controller and the Airfield Duty Manager any incident, or damage to facilities, likely to affect air-traffic control services or the safety of aircraft;

- Remain on duty at the works area while workers are onsite and the aerodrome is open to aircraft operations;
- Ensure that ATC is kept informed of the radio call signs of the vehicles used by the works safety officer;
- Require the immediate removal of vehicles, plant and personnel from the movement area where necessary to ensure the safety of aircraft operations;
- Ensure that the movement area is safe for normal aircraft operations following removal of vehicles, plant, equipment, personnel and FOD from the works area; and
- In the case of time-limited works, ensure that the works area is restored to normal safety standards within the nominated recall time.

SECTION 4 AERODROME MARKERS, MARKINGS AND LIGHTS

4.1 Markers

4.1.1 Unserviceability Markers

During the works the closed portions of the manoeuvring area will be marked by red and white unserviceability markers during the day, and red lights at night, in accordance with the drawings and *Part 139 (Aerodromes) Manual of Standards (MOS) 2019*.

4.1.2 Works Limit Markers

The works area will be delineated by works limit lines (as orange cones or 'witches' hats'). Pull back limits will be identified by blue cones. On large stages works limit markers may only be used at active intersections to delineate the works limit.

4.2 Markings

Where markings are removed during the works, they must be reinstated prior to commissioning inspections. Areas of the movement area will not be reopened without line markings being reinstated.

4.3 Lights

All lighting within and directly leading into the closed movement area will be extinguished either by electrical isolation or by physical mean (covering or blanking). Extinguished lighting will be as shown in attached drawings. Lighting will be reinstated by the end of each stage.

Temporary blue edge lighting will be used on active taxiways if taxiway centreline lights have been isolated or disconnected due to the works. When blue edge lighting is utilised, the taxiway will NOT be available in RVR conditions below 1200m.

4.4 Protection of Electrical Services

Perth Airport Pty Ltd has an Excavation Permit Procedure (EPP) which ensures pre-planning is undertaken to manage all risks associated with excavation and it is critical that the EPP is followed prior to any excavation proceeding. The EPP includes specific more extensive pre-planning procedures for High-Risk Excavation.

SECTION 5 SPECIAL REQUIREMENTS

There are no additional special requirements associated with these works.

SECTION 6 ADMINISTRATION

6.1 Works Organisation

Perth Airport has contracted **West Coast Civil Pty Ltd** to undertake the works.

6.1.1 Contractor's Site Representative

The Contractor's Site Representative shall remain responsible on behalf of the works organisation for complying with the requirements of this MOWP. Contact details of the Contractor's Site Representative are:

Contractor Works Manager – West Coast Civil
Ryan Oliver
 0423 725 199
ryan.oliver@westcoastcivil.com.au

6.2 Perth Airport Project Manager

The Perth Airport Manager for this Project is:

Project Engineer – Perth Airport Pty Ltd
Josh Greaves
 (08) 6278 8303
Joshua.Greaves@perthairport.com.au

6.3 MOWP Development and Execution

The Airfield Operations Team are responsible for the development and execution of the MOWP. Questions related to the MOWP or execution of works may be directed to;

Airfield Safety & Operations Manager: *(Responsible for day-to-day operations.)*
Darren McKenzie
 (08) 9478 8441
Darren.McKenzie@perthairport.com.au

After Hours: **Airfield Duty Manager**
 (08) 9478 8424
 0419 195 790

General Manager Operations: *(Overall responsibility for airside safety.)*
Tony Sewell
 (08) 9478 8879
Tony.Sewell@perthairport.com.au

SECTION 7 AUTHORITY

All works MUST be carried out in accordance with the MOWP.

7.1 Expiry of the MOWP

This MOWP will remain current until **30th June 2022** unless extended by amendment.


7.2 Agreement

The following signatories recognise the provisions and restrictions in this MOWP and agree to execute the works in accordance with those provisions and restrictions.

Ryan Oliver Contractor's Site Manager West Coast Civil Pty Ltd	Sign 	Date 17/03/22
Josh Greaves Project Manger Perth Airport Pty Ltd	Sign 	Date 17/03/2022

7.3 Approval

Under the authority of the Perth Airport General Manager Airfield Operations **MOWP YPPH 002/22** is approved for release.

Tony Sewell General Manager Operations Perth Airport Pty Ltd	Sign 	Date 17MAR22.
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SECTION 8 DRAWINGS

The drawings associated with MOWP YPPH 002/22 are attached to this Method of Working Plan.

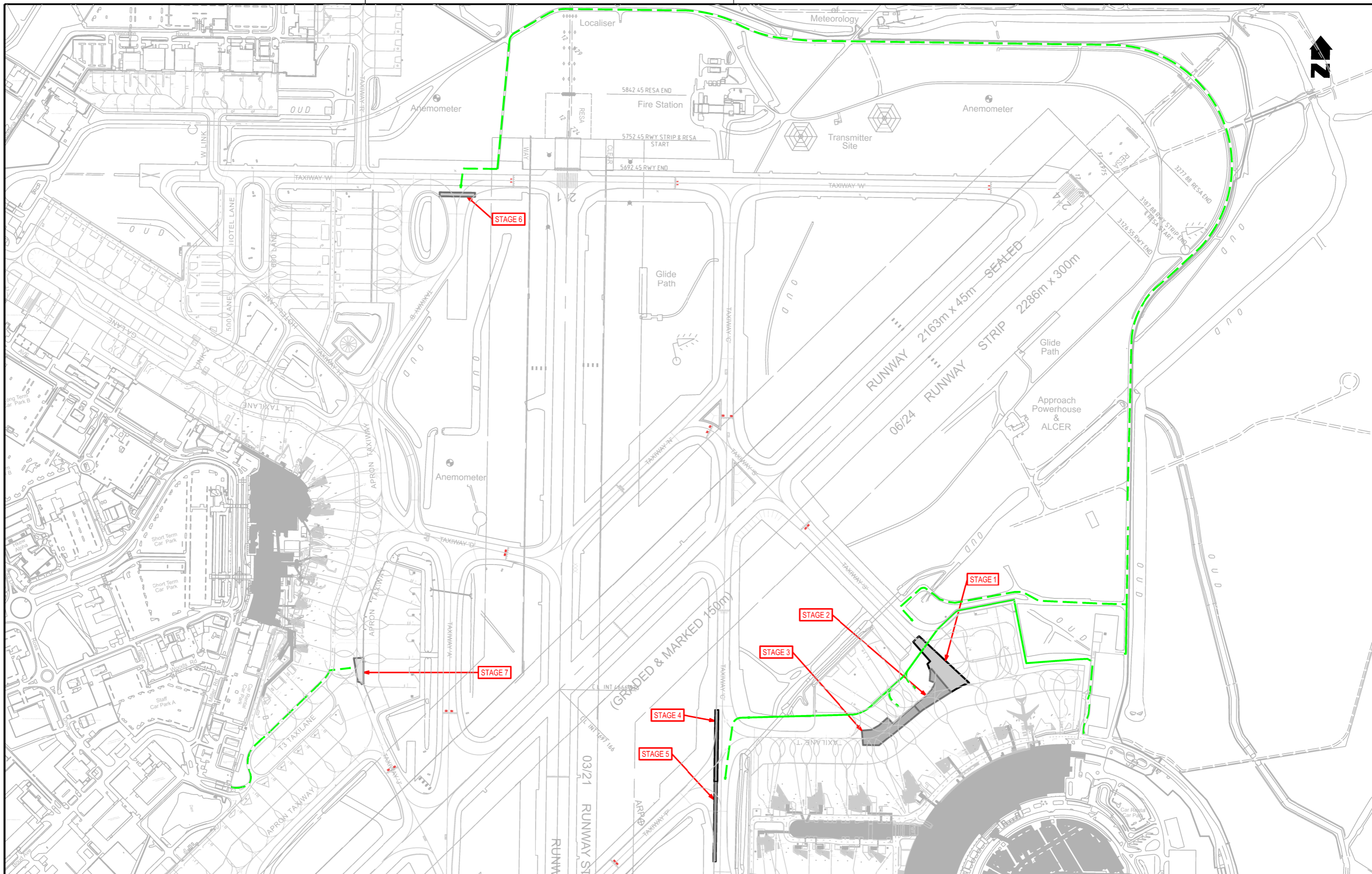
SECTION 9 DISTRIBUTION LIST

This MOWP will be distributed to those organisations and agencies listed below.

Aeroadapt	Remorex Pty Ltd
Air Asia	Royal Aero Club of Western Australia
Air BP	Royal Flying Doctor Service
Air Mauritius	Scoot Airlines
Air New Zealand	Singapore Air Cargo
Air North	Singapore Airlines
Airflite	Skippers Aviation
Airport Coordination Australia	South African Airways
Airservices Australia	Star Aviation
All Nippon Airlines	Swissport
Alliance Airlines	Thai Airways
Auswest Airlines	Toll Priority
Aviation Performance Systems Pty Ltd	Virgin Australia Airlines
AvWest	Viva Energy
Awesome Aviation	West Coast Civil
Cathay Pacific Airways	
Central Air	
China Southern Airlines	
China Southern WA Flying Collage	
Citilink	
Civil Aviation Safety Authority	
Cobham Aviation	
Densford Civil	
Dnata Airport Services	
Emirates Airlines	
Foodfolk Australia	
Garuda Indonesia	
Hawker Pacific	
Heston MRO	
Jeppesen	
Jet Aviation	
Jetstar	
Malaysia Airlines	
Malindo Air	
Maroomba Airlines	
Maxem Aviation	
Menzies Aviation	
Network Aviation	
Perth Airport Pty Ltd	
Perth Flight Centre	
Philippine Airlines	
Qantas Airways	
Qatar Airways	
RAAF Base Pearce	
Regional Express	

APPENDIX A REVISION HISTORY

Version	Date	Chapter/Paragraph	Details	Author	Approved by
1.0	17/03/22		Initial Issue	<i>JG</i>	<i>TS</i>



ISS	DRN	AMENDMENTS	APPD	DATE
1	SE	For Tender	RM	10.11.21
2	SE	Final	RM	09.03.22

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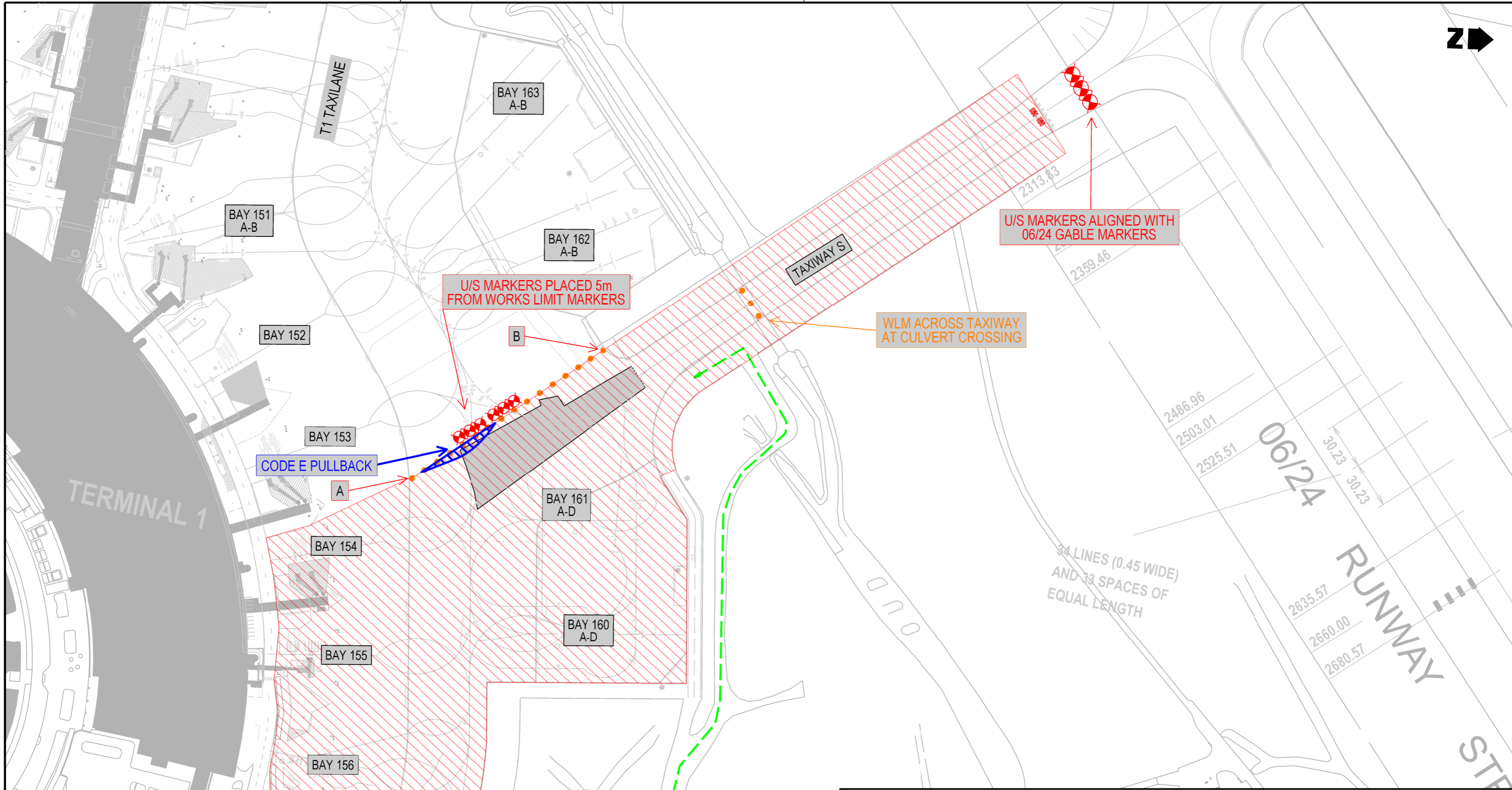
**MOWP 002-22
TAXIWAY RENEWALS
OVERALL**

MICROSTATION FILE :
N:\PAVEMENT\DESIGN\TAXIWAYS\10508_MOWP 001-21 TAXIWAY RENEWALS.DGN

DRAWN SE	APPROVED RM	DATE 10.11.21
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SIZE A3	DRAWING No. FS-10508
SCALE 1:7000	SHEET 08

Perth Airport



U/S MARKERS PLACED 5m FROM WORKS LIMIT MARKERS

U/S MARKERS ALIGNED WITH 06/24 GABLE MARKERS

WLM ACROSS TAXIWAY AT CULVERT CROSSING

CODE E PULLBACK

34 LINES (0.45 WIDE) AND 33 SPACES OF EQUAL LENGTH

06/24 RUNWAY

	Area closed/not available		Equipment storage areas
	Works limit markers	NOTE:	
	Unserviceability markers	1) RED AND WHITE UNSERVICEABILITY CONES AND RED LIGHTS TO BE PLACED AT MAX 3M INTERVALS	
	Works area	2) WORKS LIMIT MARKERS TO BE PLACED AT REGULAR INTERVALS BY THE WSO	
	Vehicle access route	3) ORANGE WORKS LIMIT LIGHTS TO BE PLACED AT REGULAR INTERVALS	
	Pullback area	DRAWN IN PCG GDA94	

WLM SET-OUT COORDS		
	X	Y
A	64874.45	264849.34
B	64795.17	264979.56

ISS	DRN	AMENDMENTS	APPD	DATE
0	NDH	PRELIMINARY		21.09.21
1	SE	FOR TENDER	RM	10.11.21
2	SE	FINAL	JG	09.03.22

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FY22 Renewal Program Works
 MOWP 002-22
 Stage 1
 Daily - Reinstate 0000 - 1200hours (LOCAL)
 T1 TAXILANE (TANGO)

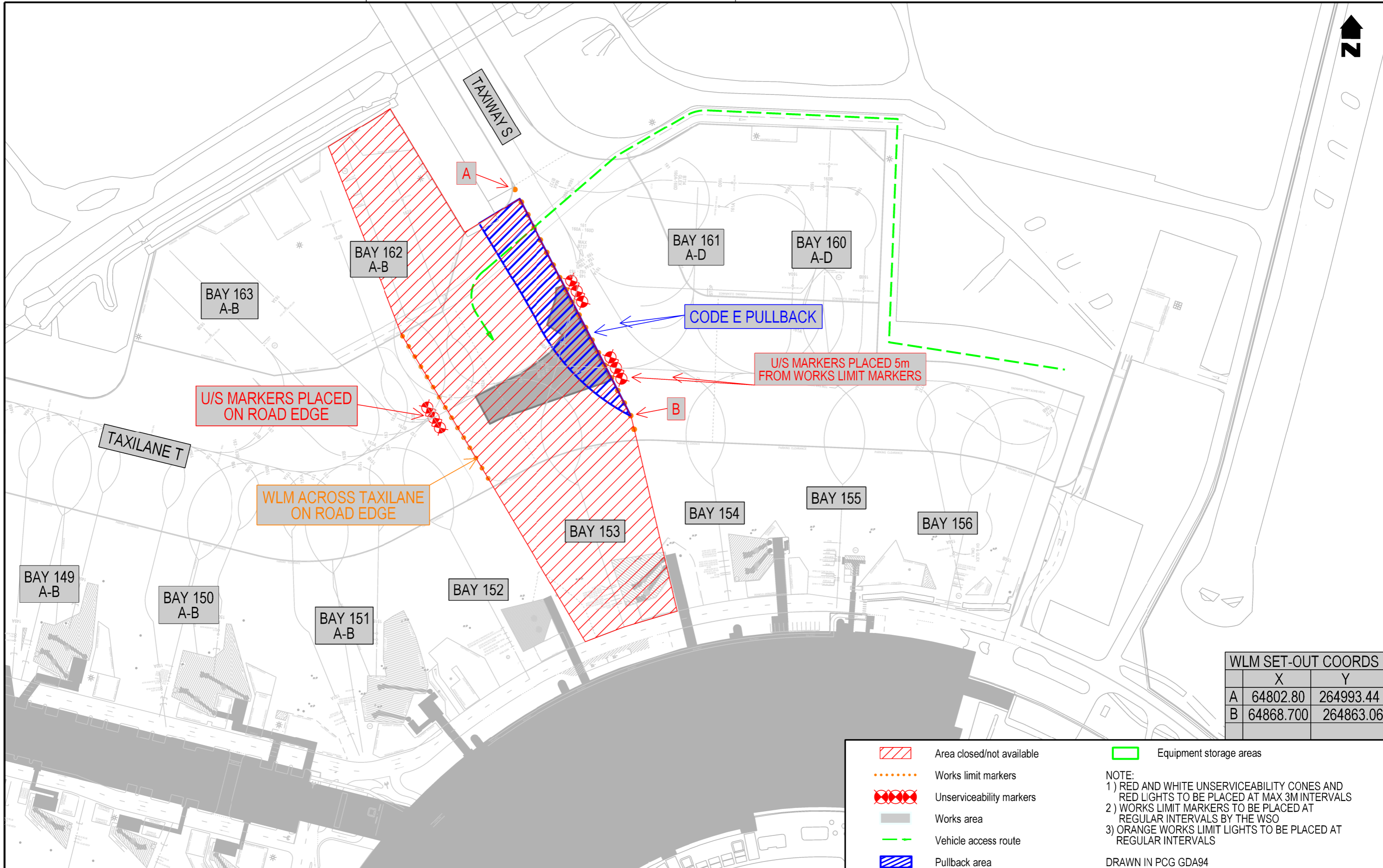
MICROSTATION FILE :
 N:\PAVEMENT\DESIGN\TAXIWAYS\10508_MOWP 001-21 TAXIWAY RENEWALS.DGN

DRAWN	APPROVED	DATE
SE	RM	10.11.21

SIZE	DRAWING No. FS-10508	
A3	SCALE 1:2500	SHEET 1

Perth Airport





WLM SET-OUT COORDS		
	X	Y
A	64802.80	264993.44
B	64868.700	264863.06

	Area closed/not available		Equipment storage areas
	Works limit markers	NOTE:	
	Unserviceability markers	1) RED AND WHITE UNSERVICEABILITY CONES AND RED LIGHTS TO BE PLACED AT MAX 3M INTERVALS	
	Works area	2) WORKS LIMIT MARKERS TO BE PLACED AT REGULAR INTERVALS BY THE WSO	
	Vehicle access route	3) ORANGE WORKS LIMIT LIGHTS TO BE PLACED AT REGULAR INTERVALS	
	Pullback area	DRAWN IN PCG GDA94	

ISS	DRN	AMENDMENTS	APPD	DATE
0	NDH	PRELIMINARY		21.09.21
1	SE	FOR TENDER	RM	10.11.21
2	SE	FINAL	JG	09.03.22

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FY22 Renewal Program Works
MOWP 002-22
Stage 2
24Hr Closure
T1 TAXILANE (TANGO)

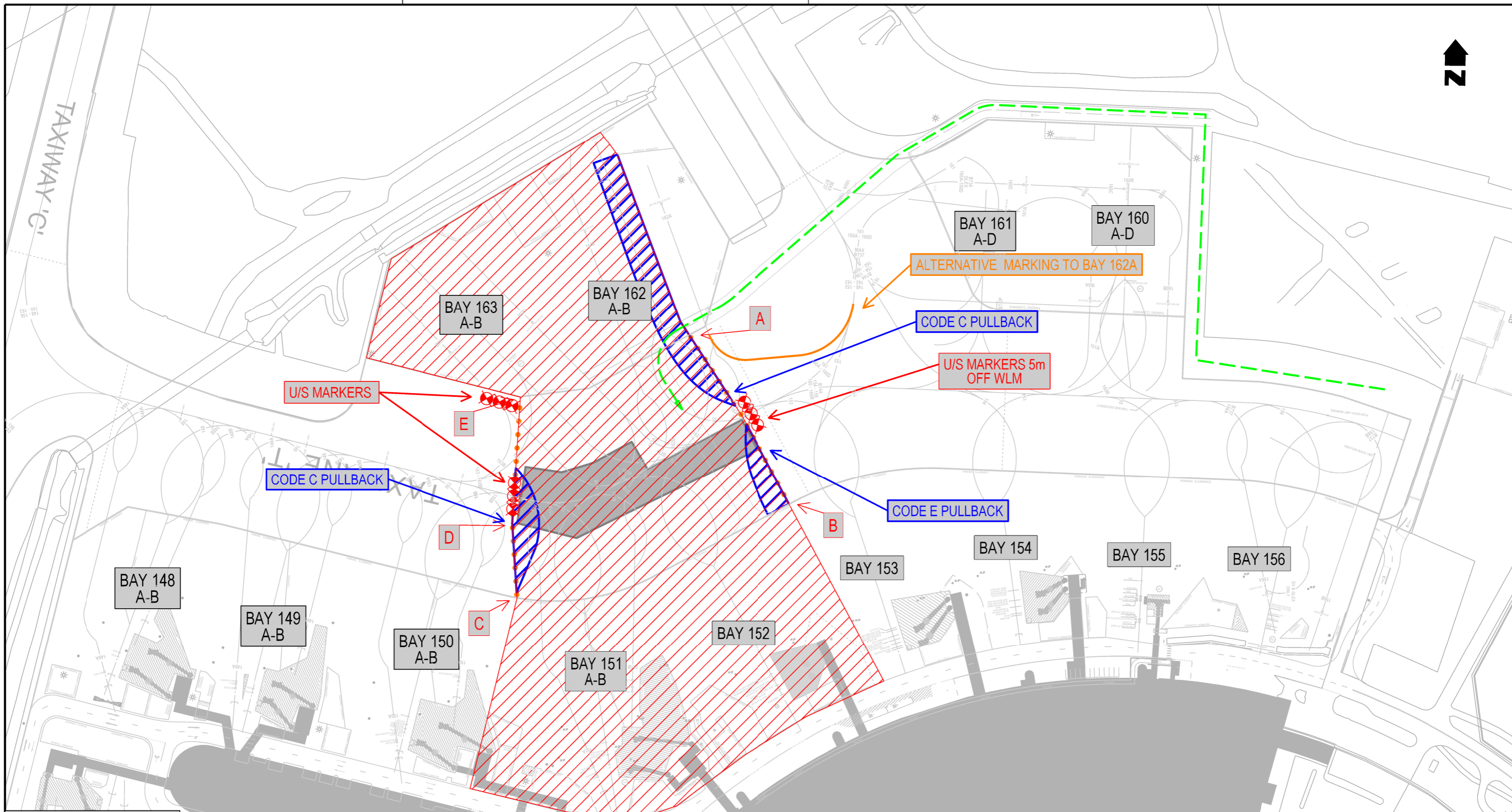
MICROSTATION FILE :
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DRAWN SE	APPROVED RM	DATE 21.09.21
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SIZE A3	DRAWING No. FS-10508
SCALE 1:2000	SHEET 2

Perth Airport





WLM SET-OUT COORDS		
	X	Y
A	64753.40	264917.58
B	64804.89	264830.57
C	64664.31	264781.87
D	64661.84	264820.49
E	64666.03	264885.72

	Area closed/not available		Equipment storage areas
	Works limit markers	NOTE:	
	Unserviceability markers	1) RED AND WHITE UNSERVICEABILITY CONES AND RED LIGHTS TO BE PLACED AT MAX 3M INTERVALS	
	Works area	2) WORKS LIMIT MARKERS TO BE PLACED AT REGULAR INTERVALS BY THE WSO	
	Vehicle access route	3) ORANGE WORKS LIMIT LIGHTS TO BE PLACED AT REGULAR INTERVALS	
	Pullback area	DRAWN IN PCG GDA94	

ISS	DRN	AMENDMENTS	APPD	DATE
0	NDH	PRELIMINARY		21.09.21
1	SE	FOR TENDER	RM	10.11.21
2	SE	FINAL	JG	09.03.22

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FY22 Renewal Program Works
MOWP 002-22
Stage 3
24 hour closures
T1 TAXILANE (TANGO)

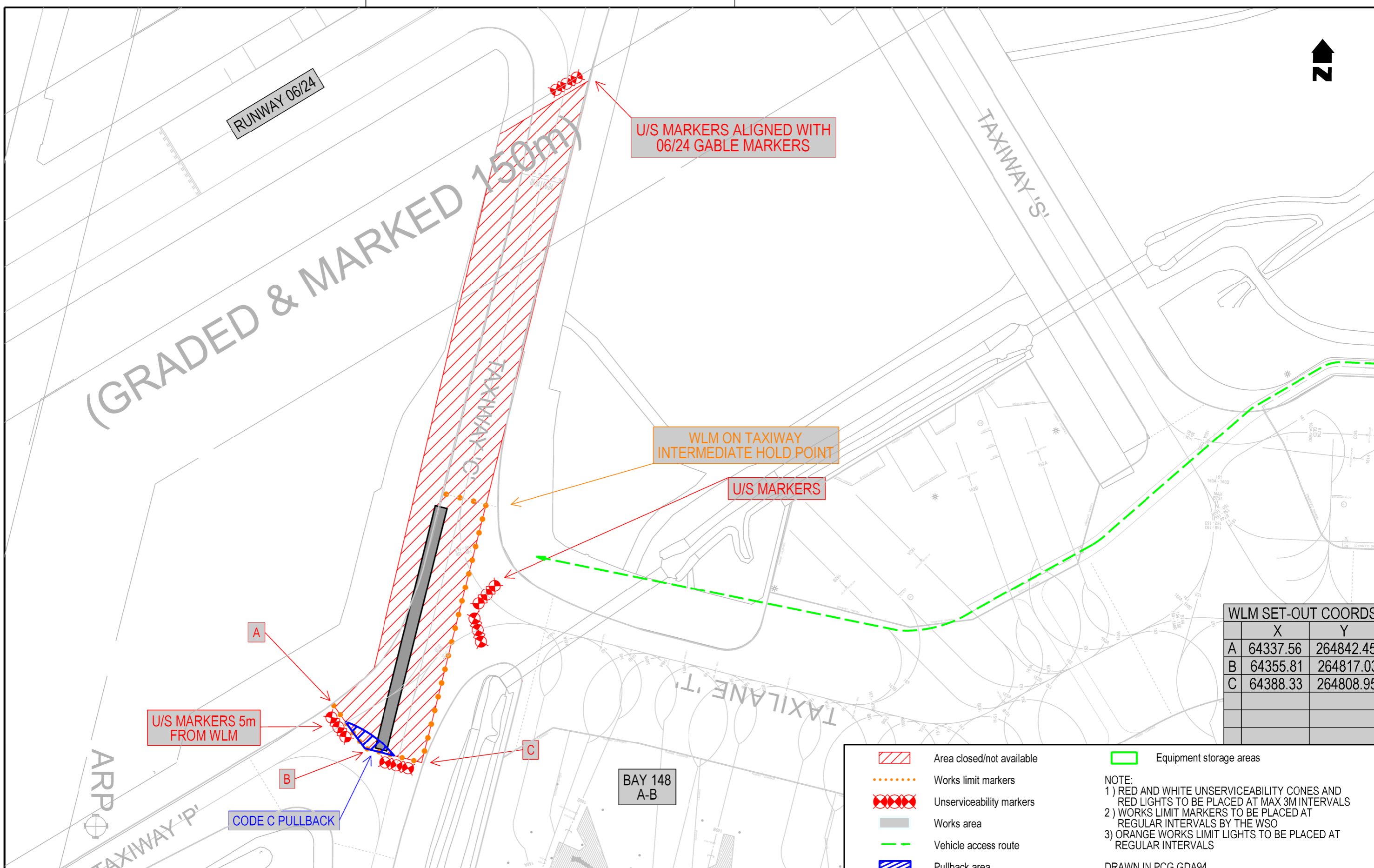
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DRAWN	APPROVED	DATE
SE	RM	10.11.21

SIZE	DRAWING No.	FS-10508
A3	SCALE	SHEET
	1:2000	3

Perth Airport





WLM SET-OUT COORDS		
	X	Y
A	64337.56	264842.45
B	64355.81	264817.03
C	64388.33	264808.95

Area closed/not available	Equipment storage areas
Works limit markers	NOTE: 1) RED AND WHITE UNSERVICEABILITY CONES AND RED LIGHTS TO BE PLACED AT MAX 3M INTERVALS 2) WORKS LIMIT MARKERS TO BE PLACED AT REGULAR INTERVALS BY THE WSO 3) ORANGE WORKS LIMIT LIGHTS TO BE PLACED AT REGULAR INTERVALS
Unserviceability markers	
Works area	
Vehicle access route	
Pullback area	

DRAWN IN PCG GDA94

ISS	DRN	AMENDMENTS	APPD	DATE
0	NDH	PRELIMINARY		21.09.21
1	SE	FOR TENDER	RM	10.11.21
2	SE	FINAL	JG	09.03.22

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FY22 Renewal Program Works
MOWP 002-22
Stage 4
Daily Closure 0800hrs - 1700hrs
TAXIWAY CHARLIE & PAPA INTERFACE

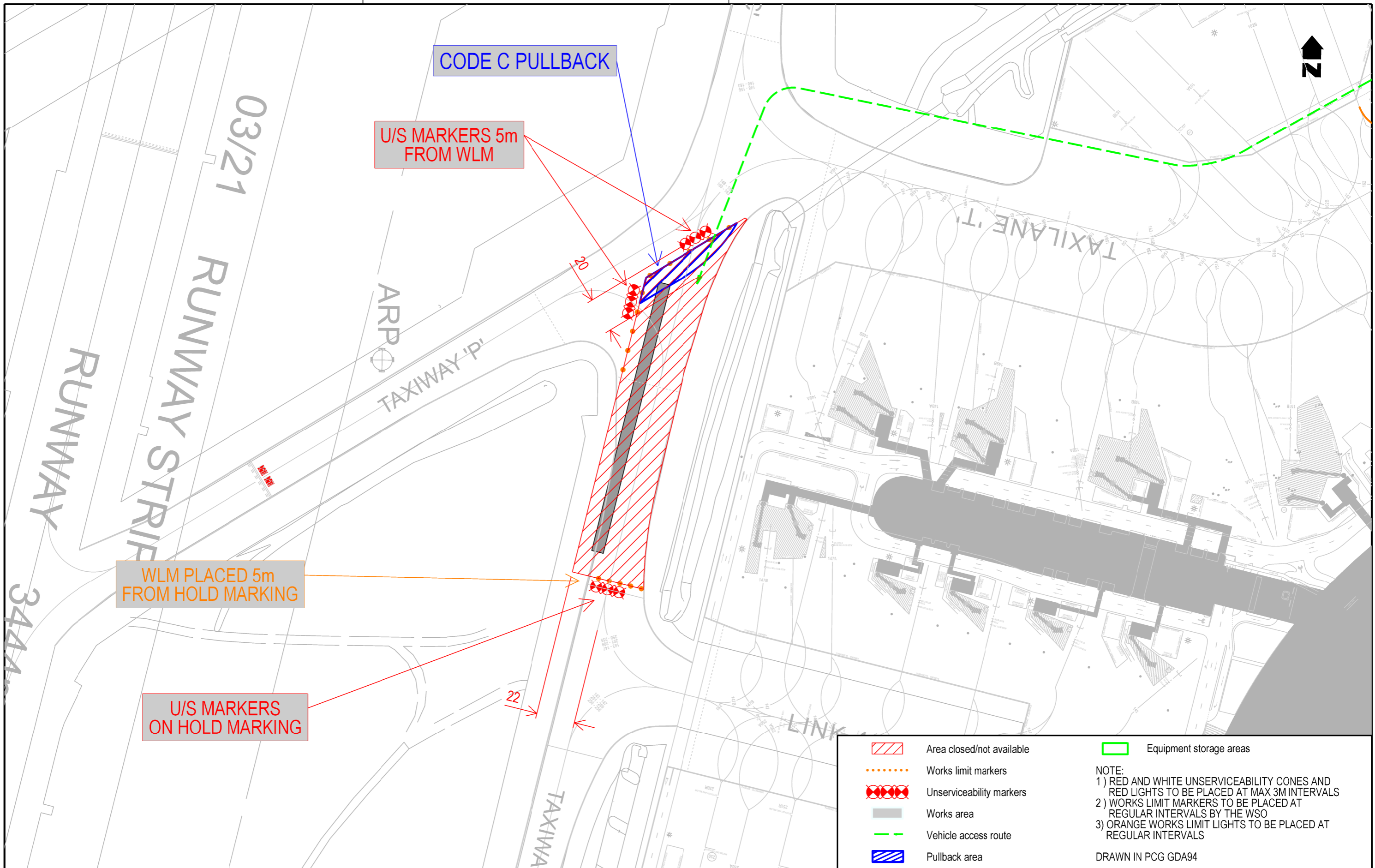
MICROSTATION FILE :
N:\PAVEMENT\DESIGN\TAXIWAYS\10508_MOWP 001-21 TAXIWAY RENEWALS.DGN

DRAWN SE	APPROVED RM	DATE 10.11.21
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SIZE A3	DRAWING No. FS-10508
SCALE 1: 2000	SHEET 4

Perth Airport





	Area closed/not available		Equipment storage areas
	Works limit markers	NOTE:	
	Unserviceability markers	1) RED AND WHITE UNSERVICEABILITY CONES AND RED LIGHTS TO BE PLACED AT MAX 3M INTERVALS	
	Works area	2) WORKS LIMIT MARKERS TO BE PLACED AT REGULAR INTERVALS BY THE WSO	
	Vehicle access route	3) ORANGE WORKS LIMIT LIGHTS TO BE PLACED AT REGULAR INTERVALS	
	Pullback area	DRAWN IN PCG GDA94	

ISS	DRN	AMENDMENTS	APPD	DATE
0	NDH	PRELIMINARY		21.09.21
1	SE	FOR TENDER	RM	10.11.21
2	SE	FINAL	JG	09.03.22

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FY22 Renewal Program Works
MOWP 002-22
Stage 5
Daily Closure 0800hrs - 1700hrs (Local)
TAXIWAY CHARLIE & PAPA INTERFACE

MICROSTATION FILE :
 N:\PAVEMENT\DESIGN\TAXIWAYS\10508_MOWP 001-21 TAXIWAY RENEWALS.DGN

DRAWN SE	APPROVED	DATE 10.11.21
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SIZE A3	DRAWING No. FS-10508
SCALE 1: 2000	SHEET 5



Anemometer



U/S MARKERS 5m FROM WLM

TAXIWAY 'W'

TAXIWAY W

RESA

WAY

CLEAR

BAY 701
A-B

BAY 702

700 Lane

BAY 703
A-B

CODE C & E PULLBACK FOR ELECTRICAL WORKS

U/S MARKERS AT CENTRELINE JUNCTION

Glide Path

	Area closed/not available		Equipment storage areas
	Works limit markers	NOTE:	
	Unserviceability markers	1) RED AND WHITE UNSERVICEABILITY CONES AND RED LIGHTS TO BE PLACED AT MAX 3M INTERVALS	
	Works area	2) WORKS LIMIT MARKERS TO BE PLACED AT REGULAR INTERVALS BY THE WSO	
	Vehicle access route	3) ORANGE WORKS LIMIT LIGHTS TO BE PLACED AT REGULAR INTERVALS	
	Pullback area	DRAWN IN PCG GDA94	

ISS	DRN	AMENDMENTS	APPD	DATE
0	NDH	PRELIMINARY		21.09.21
1	SE	FOR TENDER	RM	10.11.21
2	SE	FINAL	JG	09.03.22

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FY22 Renewal Program Works
MOWP 002-22
Stage 6
Daily Closure 0800hrs - 1600hrs (Local)
TAXIWAY WHISKEY - BRAVO

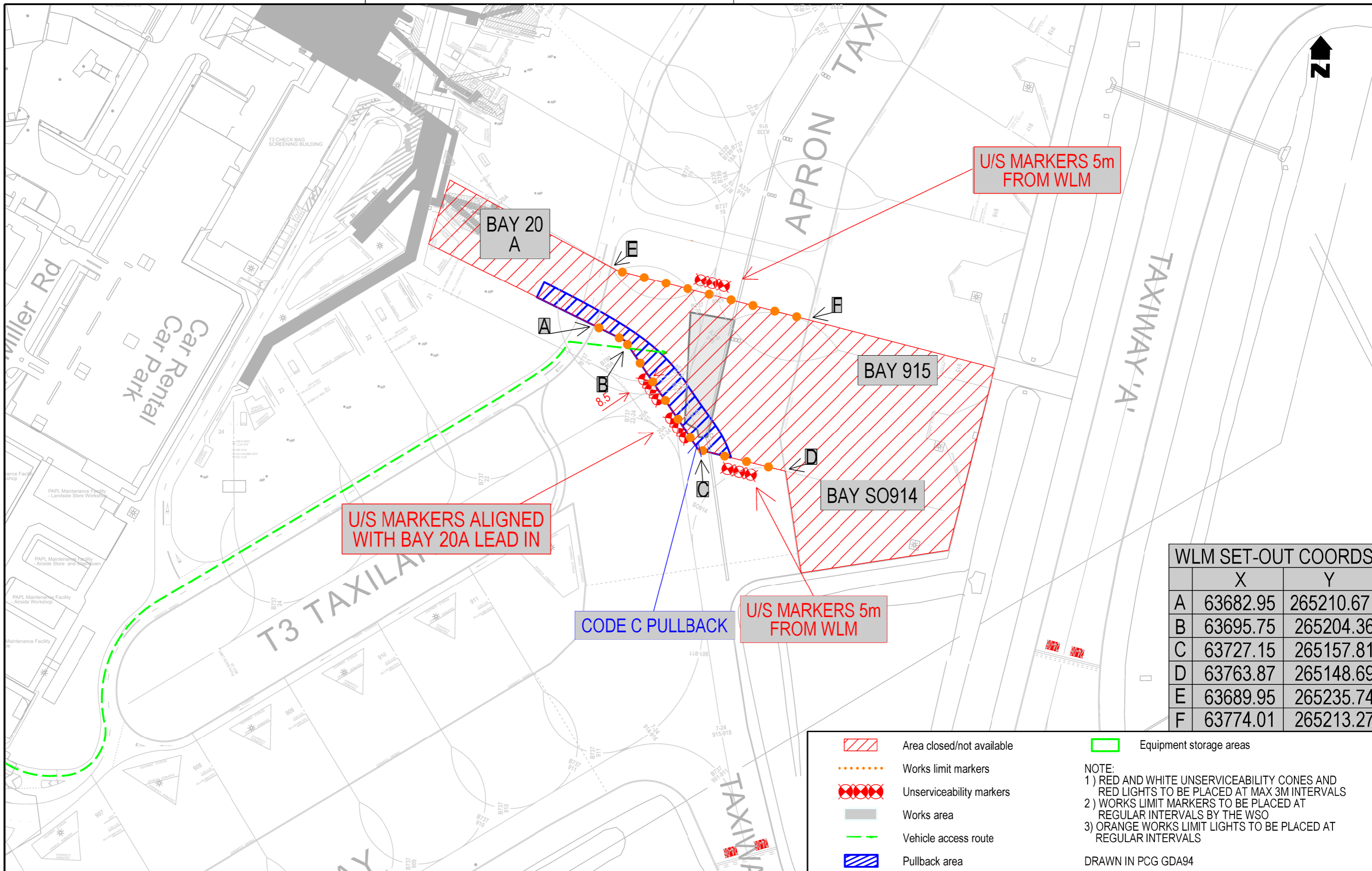
MICROSTATION FILE :
N:\PAVEMENT\DESIGN\TAXIWAYS\10508_MOWP 001-21 TAXIWAY RENEWALS.DGN

DRAWN SE	APPROVED RM	DATE 10.11.21
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SIZE A3	DRAWING No. FS-10508
SCALE 1: 2000	SHEET 6

Perth Airport





WLM SET-OUT COORDS		
	X	Y
A	63682.95	265210.67
B	63695.75	265204.36
C	63727.15	265157.81
D	63763.87	265148.69
E	63689.95	265235.74
F	63774.01	265213.27

	Area closed/not available		Equipment storage areas
	Works limit markers	NOTE:	
	Unserviceability markers	1) RED AND WHITE UNSERVICEABILITY CONES AND RED LIGHTS TO BE PLACED AT MAX 3M INTERVALS	
	Works area	2) WORKS LIMIT MARKERS TO BE PLACED AT REGULAR INTERVALS BY THE WSO	
	Vehicle access route	3) ORANGE WORKS LIMIT LIGHTS TO BE PLACED AT REGULAR INTERVALS	
	Pullback area	DRAWN IN PCG GDA94	

ISS	DRN	AMENDMENTS	APPD	DATE
0	NDH	PRELIMINARY		21.09.21
1	SE	FOR TENDER	RM	10.11.21
2	SE	FINAL	JG	09.03.22

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FY22 Renewal Program Works
MOWP 002-22
Stage 7
Night Closure 2000hrs - 0430hrs (Local)
T3 TAXIWAY

MICROSTATION FILE :
N:\PAVEMENT\DESIGN\TAXIWAYS\10508_MOWP 001-21 TAXIWAY RENEWALS.DGN

DRAWN	APPROVED	DATE
SE	RM	10.11.21

SIZE	DRAWING No.	FS-10508
A3	SCALE	SHEET
	1:1000	07

Perth Airport

