Prepared for
Western Parkland City Authority (WPCA)

Stormwater Management Plan

15-Feb-2024
Bradfield Aerotropolis First Building - AMRF
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Stormwater Management Plan

Client: Western Parkland City Authority (WPCA)

Prepared by

AECOM,

15-Feb-2024

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1.0 Introduction

1.1 Background

The new Bradfield City Centre is located within the Western Sydney Aerotropolis.

The NSW government has committed to build the First Building which includes a high-tech facility for research institutions and industry to collaborate.

AECOM was engaged to carry out the Civil Engineering Design to support the State Significant Development Application (SSDA) for the Stage 1A First Building concept proposal. Scope for this work included the design of roads, stormwater drainage, utilities, and temporary supporting infrastructure.

On 9 September 2022, Development Consent was granted by the Department of Planning and Environment under Section 4.38 of the Environmental Planning and Assessment Act 1979 for State Significant Development Application (SSD-25452459).

1.2 Purpose

The purpose of this report is to meet the Conditions of Consent Section B14, granted on 9 September 2022, with respect to the requirement for a Stormwater Management Plan (SMP)

Section B14:		
a)	*Describes the baseline soil, surface water and groundwater conditions on site;*	**Section 1.3**
b)	*Details a monitoring program to demonstrate how the system will meet the waterway health objectives and targets as set out in the Technical Guidance to achieving Wianamatta South Creek Stormwater Management Targets (NSW Government, 2022), including:*	**Section 4.0**
	○ *Surface water flows and quality;*	
	○ *Surface water storage and use;*	
	○ *Bio-retention basins;*	
	○ *Wetlands;*	
	○ *Triggers for installing the additional infrastructure described in the MUSIC model in Appendix R of RTS (included separately as an appendix to these works);*	**Section 3.6.3**
c)	*Includes a protocol for investigation of any non-compliances should the water quality targets not be met and contingency measures that would be implemented should issues arise.*	**Section 4.0** **Section 4.0**
d)	*Includes a maintenance plan for WSUD measures; and*	**Section 3.6.3 & Section 0**
e)	*Details triggers for review of the plan, including, but not limited to a review of the plan within 6 months of the regional stormwater infrastructure being available for the site to connect to.*	

To this end the SMP includes:

- Stormwater drainage plans and engineering details
- Details of the infrastructure as it was modelled to meet expected performance criteria
- A program to monitor stormwater quality and quantity
- Sustainable design metrics used in the design, attached in Appendix A, including:
    - Living Building Challenge
    - Greenstar Rating

1.3 Consultation

This Stormwater Management Plan has been prepared and reviewed in consultation with Sydney Water and NSW Environment and Heritage (dated 17 January 2024).

1.4 Baseline Conditions

1.4.1 Soil

Baseline soil conditions were documented in the Geotechnical Investigation Report by ADE Consulting Group Pty Ltd (January 2022), henceforth referred to as the Geotechnical Investigation Report.

The geotechnical investigation report describes the topsoil as possibly disturbed silty clay of medium plasticity with rootlets and vegetation, traces of sand and fine to medium ironstone gravel inclusions.

The residual soil is described as silty clay of medium to high plasticity, pale grey mottled red and orange, stiff to hard strength, becoming extremely weathered shale with depth.

The site is underlain by shale interbedded with sandstone and siltstone (Bringelly Shale) at depths of 3 to 5.5 m.

1.4.2 Surface Water

There are no existing surface water bodies within the First Building site. The site is located on a crest, so overland flows are largely away from the site towards the east and south.

1.4.3 Groundwater

The geotechnical investigation report notes that no groundwater or seepage inflow was encountered at the contact between soil profiles and bedrock within boreholes during auger drilling and on completion of auger drilling.

The report notes, however, that actual flow rates are expected to vary in response to periods of prolonged wet weather.

An additional report, Detailed Site Investigation by Environmental Resources Management Australia Pty Ltd (July 2022), documents an investigation undertaken for the Bradfield City Centre. The report excludes the First Building site but documents the results of several groundwater monitoring wells located within a radius of about 0.5 km from the site. Ground water was generally inferred to flow from west to east within the slope of the site.

1.5 Stormwater Drainage Network

1.5.1 Catchment

The total influenced catchment area is approximately 13.825ha and is split between two general directions: north east, towards adjoining land to the north, and south east which flows into Moore's Gully and Thompsons Creek, a tributary of South Creek. The catchment consists of undeveloped greenfields rural residential agricultural land, with a few isolated structures and farm dams.

Approximately 8ha of this catchment area is on adjacent land and the proposed design is intended to allow this catchment to bypass site development areas and maintain the existing discharge path towards the north. A detailed catchment breakdown is included within engineering plans in Appendix B.

1.5.2 Rainfall Data

All rainfall data used for hydrological and hydraulic design of the stormwater network has been obtained from the latest Bureau of Meteorology (BOM) rainfall data along with ARR data hub.

1.5.3 Infrastructure

Stormwater infrastructure proposed as part of the development is presented in Appendix B and includes details of the surrounding landform.

2.0 Stormwater Treatment Targets

2.1 Governing Policies

The water management objectives for the site have been derived from the following planning policies:

- Western Sydney Engineering Design Manual – Western Sydney Planning Partnership
- Technical Guidance for achieving Wianamatta South Creek Stormwater Management Targets – NSW DPIE
- Western Sydney Aerotropolis DCP 2021 Phase 2 Draft – NSW DPIE
- Blacktown City Council WSUD technical manual – Blacktown City Council
- Liverpool City Council DCP and WSUD technical manual – Liverpool City Council

2.2 Flow Reduction Targets

2.2.1 Volumetric

Stormwater volumetric flow targets are laid out in the Aerotropolis DCP 2 under Section 4.3 for Stormwater Management and Water Sensitive Urban Design.

Two options are available for determining the acceptable volumetric stormwater flow for the site with Option 1 being adopted for the proposed design. A summary of the targets are presented in Table 1. These targets have been selected which focus on limiting the Mean Average Runoff Volume (MARV) values, with a focus on removing the excess runoff that results from urbanisation, which can be detrimental to the stability of receiving waterways.

Table 1 Stormwater Flow Target - Operational Phase (Aerotropolis DCP 2 Section 4.3.2)

Performance Outcome (PO3)	Benchmark Solution	
Development is to demonstrate compliance with the stormwater flow targets at the lot, estate, or regional level to ensure the NSW Government's water quality and flow related objectives are achieved	**Option 1: Mean Annual Runoff**	
	Mean Annual Runoff Volume (MARV)	≤ 2 ML/ha/year at the point of discharge to the local waterway
	90%ile flow	1000 to 5000 L/ha/day at the point of discharge to the local waterway
	50%ile flow	5 to 100 L/ha/day at the point of discharge to the local waterway
	10%ile flow	0 L/ha/day at the point of discharge to the local waterway
	Option 2: Flow Duration Curve Approach	
	95%ile flow	3000 to 15000 L/ha/day at the point of discharge to the local waterway
	90%ile flow	1000 to 5000 L/ha/day at the point of discharge to the local waterway
	75%ile flow	100 to 1000 L/ha/day at the point of discharge to the local waterway
	50%ile flow	5 to 100 L/ha/day at the point of discharge to the local waterway
	Cease to flow	Cease to flow to be between 10% to 30% of the time

2.2.2 Peak Discharge

Peak stormwater discharge from the primary site of the First Building (AMRF) is managed via split flows in the proposed stormwater network with primary flow directed into the building site and towards an on-site stormwater detention (OSD) basin with the intent to attenuate flows.

Secondary discharges were split in higher events to discharge partial flows towards the stormwater network and swales running further to the east. This split connection in the system is expected to be disconnected with further development of the stormwater network to the east and as regional WSUD elements come online. The initial flow splitting pit and outlet is presented in Figure 1.

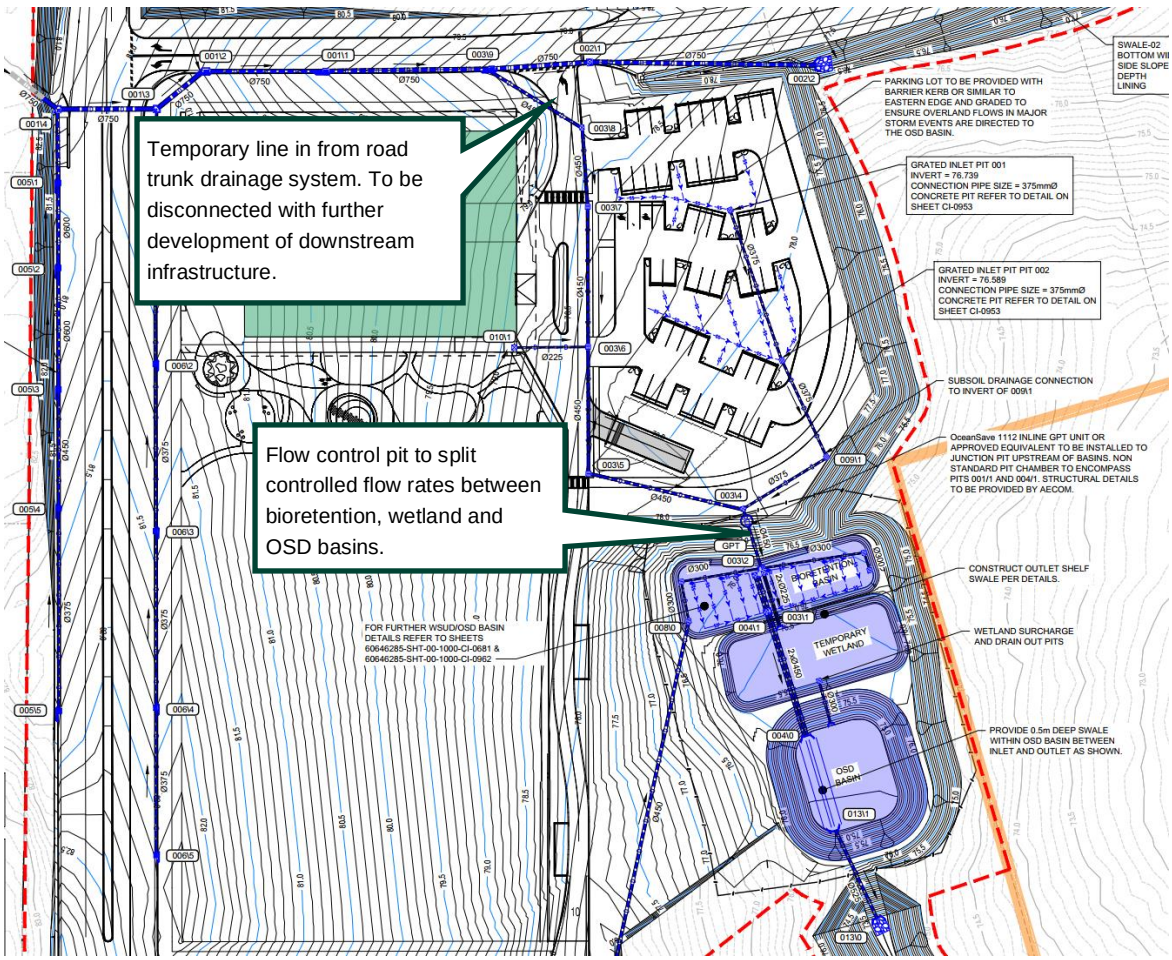

Figure 1 Proposed stormwater network – splitter system for First Building site

The overarching approach towards the inclusion of an OSD basin was to attenuate the discharge of stormwater from the site to less than pre-developed conditions, as per best practice, and to control flow of water through outlet swales passing the Metro site to the south-east.

Basin size and flow attenuation was based on the minor and major systems as outlined in the Western Sydney Engineering Manual for the 5% AEP (Minor System) and 1% AEP (Major System).

A rainwater tank included as part of the AMRF building has not been included as part of this discharge attenuation consideration and has been assumed to be at capacity or bypassed for the purposes of sizing stormwater hydraulic structures such as the OSD and swales.

2.2.3 Water Quality Targets

The volumetric and water quality targets were assessed based on a model produced by the software Model for Urban Stormwater Improvement Conceptualisation (MUSIC) and the hydraulic network and design flows throughout the site were modelled in the software DRAINS.

In accordance with Aerotropolis DCP 2, water quality pollution reduction targets have been adopted for use with the assessment of the site via a MUSIC model. Results of the model as prepared in consultation and agreement with EHG and DPIE and are displayed in Table 2.

Table 2 Stormwater Pollutant Reduction Target - Operational Phase (Aerotropolis DCP 2 Section 4.3.2)

Performance Outcome (PO2)	Benchmark Solution	
Development is to demonstrate compliance with the stormwater quality targets at the lot, estate, or regional level to ensure the NSW Government's water quality and flow related objectives are achieved	Gross Pollutants (anthropogenic litter >5mm and coarse sediment >1mm)	90% reduction (minimum) in mean annual load from unmitigated development
	Total Suspended Solids (TSS)	90% reduction in mean annual load from unmitigated development
	Total Phosphorus (TP)	80% reduction in mean annual load from unmitigated development
	Total Nitrogen (TN)	65% reduction in mean annual load from unmitigated development

Construction phase parameters from the same DCP 2 table (PO1) have been addressed as part of separate documentation of ERSED plans completed in coordination with the site CPESC. These plans can be found as part of the Civil Engineering Drawing set included in Appendix B.

Additional pollutant reduction parameters for the purposes of addressing Living Building Challenge and Greenstar Rating criteria are included in the attached memo presented in Appendix A.

3.0 WSUD Infrastructure

3.1 Gross Pollutant Traps (GPT)

A single Atlan Vortceptor unit (SVI300) has been included within the main building site as in-line system to provide initial screening of the gross pollutants present in urbanised areas such as around buildings, roads, and parking facilities, and includes an internal baffle system for capturing and storing hydrocarbons separated from inflow.

The GPT unit will also act as a protective screening to the downstream basins and flow control pit that separates them by separating the general litter and larger particulates from the flow passing to the basins. This initial screening helps maintain the health of the downstream biological process by preventing clogging from build-up of litter and sediment.

The unit has been sized based on a 2EY treatable flow rate from stormwater modelling conducted in DRAINS rather than a 3EY or 4EY flow rate to provide a more conservative buffer. This sizing will reduce the potential for bypassing flows and increases the available storage for trapped pollutants.

3.2 Bioretention Basins

Bioretention basins are included to provide a large portion of the pollutant treatment for stormwater discharge and are constructed as inline systems with splitter pits and weirs to control flow throughout.

A bioretention basin with a total footprint of 475m^2 is included as part of the AMRF building site infrastructure to manage storm flow from the primary stormwater discharge collection point, as shown in Figure 1, consisting of a catchment area of 4.83ha. An integrated flow control pit within the basin inlet will control the path of water to the downstream wetland and OSD basins.

It's noted that biological processes, particularly those that make wetlands effective, can take time to become effective due to the nature of developing vegetation and microorganism ecosystems and may not reach full maturity until after two growing seasons or 18months. In that time, it's expected that the bioretention basin will perform the majority of the effective pollutant treatment and any wetlands will solely contribute to the evaporation of stored water as part of the flow balance metrics for the site.

Management: The primary bioretention basin, along with the connecting GPT, wetland and OSD, resides on the AMRF building lot and is expected to remain until regional infrastructure is online. While infrastructure outside the building lot may be handed over to local Council before that time, the infrastructure within the lot will remain with the private landowner for management until made redundant by other regional infrastructure.

3.3 Constructed Wetlands

Two wetlands are proposed for the site:

- A 500m^2 wetland within the AMRF site proper, connected to the bioretention, OSD and stormwater network and temporary until regional infrastructure is online or downstream basins replace it. This is shown in Figure 1.
- A 1350m^2 wetland at the northern end of the site adjacent to the access roads for the site and is also temporary in nature until adjacent developments progress the regional infrastructure for the northern end of the site. Details of this basin are included in Appendix B.

Management: Similar to the bioretention basins, AMRF lot-based basins will remain the responsibility of private landowners until made redundant by regional infrastructure while road-side infrastructure will be with the private land owners until the roads are handed over to local Council or the basins are replaced with regional infrastructure.

3.4 Swales

Several swales are provided as road-side drains to convey main site flows where piped networks are not present and will be vegetated to contribute to the WSUD infrastructure though play a minor role in filtering runoff.

The swale leading out of the OSD for the southern portion of the site is excluded from WSUD consideration and is designed solely for hydraulic conveyance of stormwater discharge passed the Metro site and has not been considered in the MUSIC model.

Management: responsibility for swales remain with the road owners, i.e. the private land owner until such times as the roads are handed over to Council.

3.5 Onsite Stormwater Detention (OSD)

An OSD basin has been included as part of the site stormwater network but has not been included with the WSUD assessment due to not attenuating or impacting the flow characteristics of water at the treatment level flow rates and is only operational for storm events from the 5% to 1% AEP.

Management: Similar to the bioretention basins, AMRF lot-based OSD will remain the responsibility of private landowners until made redundant by regional infrastructure while road-side infrastructure will be with the private land owners until the roads are handed over to local Council or the basins are replaced with regional infrastructure.

3.6 Treatment Trains

Consideration for the site in total has been split into two areas, referring to Figure 2:

- The primary site: which consists of the AMRF building site proper, the surrounding undeveloped lot, carpark, and basin area as well as the immediate surrounding roads connected to the stormwater network and the catchments draining to it. The primary site is expected to be operational temporarily (approximately 5 years) until regional infrastructure is completed to accommodate lot based WSUD elements.
- The secondary site: consisting of the remaining development site providing access road connection to the primary site that is not captured by the primary site catchment network. The secondary site is the most likely to undergo changes as further adjacent development of the Aerotropolis core precinct is completed and the stormwater network is expanded. These changes include further development of adjacent lots, and thereby increased imperviousness of the surrounding site, extended road networks and associated stormwater network, and higher functioning regional infrastructure.

The arrangement of the WSUD network, as modelled in MUSIC, is presented in Figure 2 below.

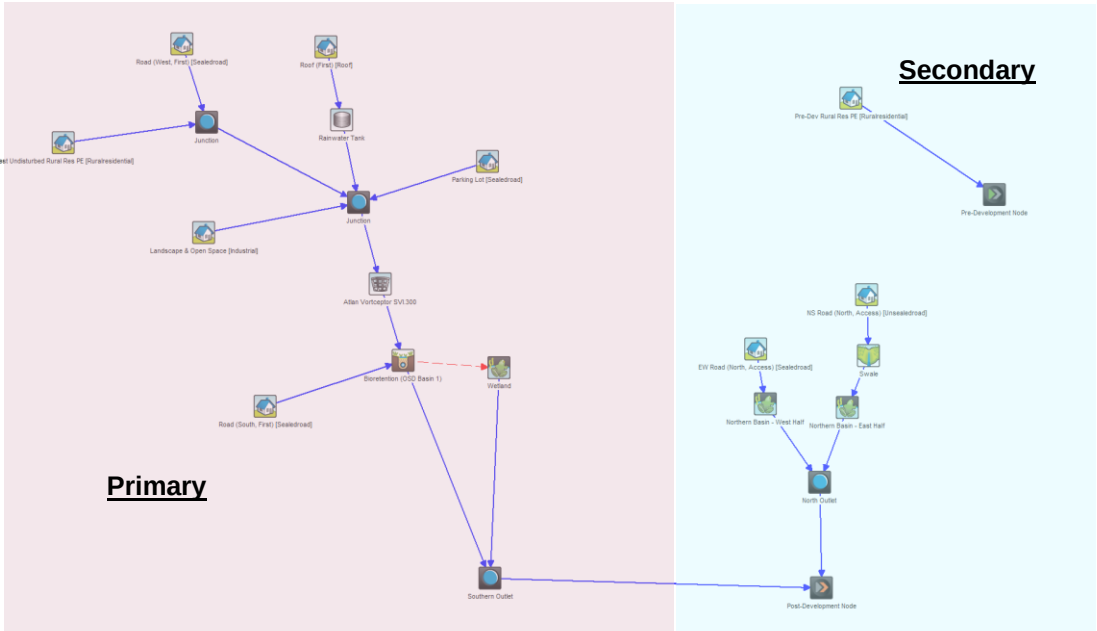

Figure 2 Total site WSUD network with primary and secondary sites displayed

3.6.1 Primary Site

The primary site, per the network highlighted in Figure 2, is detailed further in Figure 3 below:

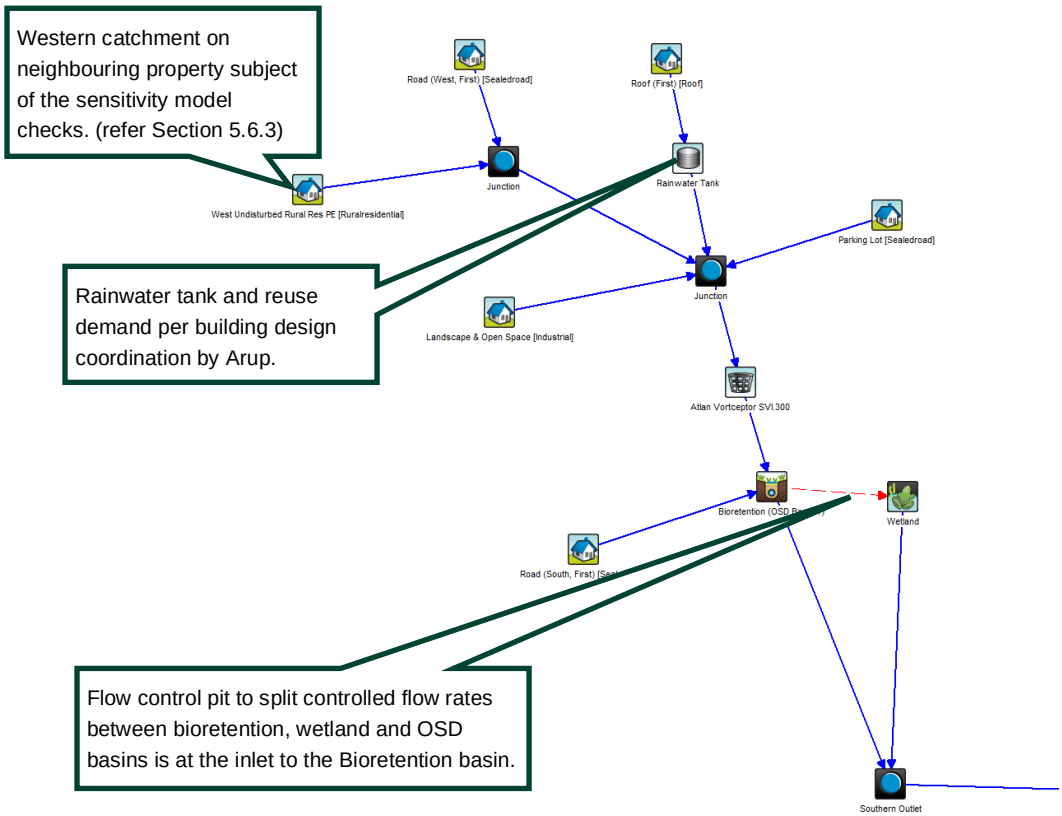

Figure 3 WSUD details: primary site

3.6.2 Secondary Site

The secondary site, per the network highlighted in Figure 2, is detailed further in Figure 4 below:

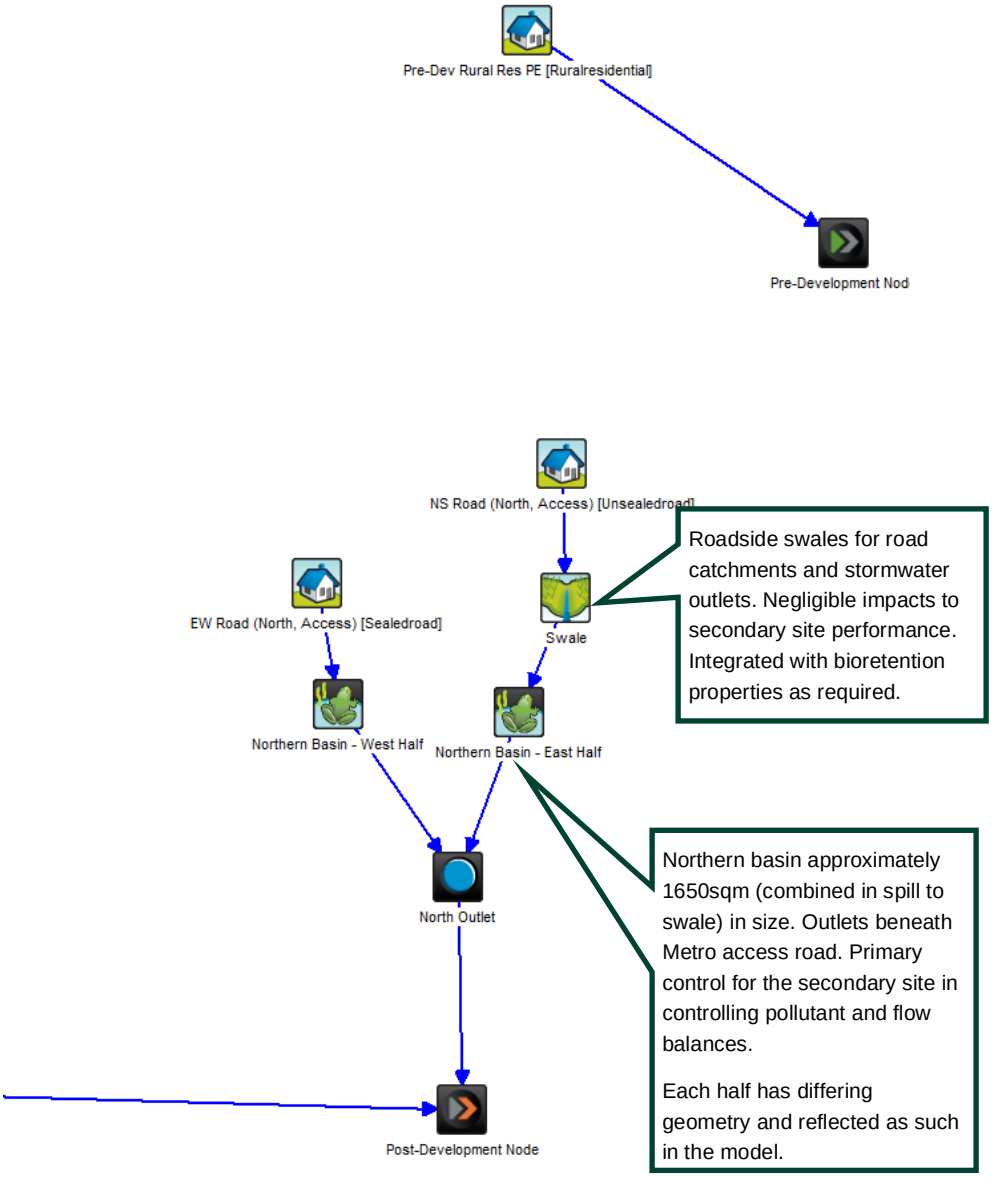

Figure 4 WSUD details: secondary site

The additional measures around the surrounding site are then used to provide a total site pollutant reduction balance.

3.6.3 Sensitivity Model – Development of adjacent land

The current modelling underpinning the proposed design assumes that the catchment directly to the west of the AMRF building site, which is draining into the proposed road and being captured by the stormwater drainage network, will be undeveloped and untreated inflow to the site. As this results in a dilution of the pollutants generated by the AMRF site, if the adjacent land is developed in the future the achieved water quality levels from the infrastructure outlined by this report may no longer be compliant due to an increase in incoming pollutants.

Sensitivity modelling shows that additional WSUD measures will be required should the following occur:

- Neighbouring land naturally draining into the AMRF site becomes developed.

AND

- The adjacent development does not have a self-contained WSUD infrastructure capable of treating stormwater to equivalent natural levels as modelled in the current proposed design.
- The adjacent development does not discharge to a separate network, bypassing the AMRF site.
- Regional or downstream infrastructure has not been constructed to replace the AMRF WSUD basins.

If the above scenario becomes realised, an additional temporary wetland will be required with an approximate total footprint of 2000m^2 but will be subject to further assessment depending on the nature of the AMRF site and neighbouring development inflows so cannot be explicitly outlined in this report.

It will be the responsibility of the AMRF landowner to monitor the status of this adjacent land, such as through development applications on display or notices given, to determine the intent of this neighbouring development and whether it fits within the scenario described above.

3.7 Rainfall Data

Rainfall data used in modelling was the 1999-2008 inclusive period, as prescribed for MUSIC modelling in the Wianamatta South Creek Toolkit.

4.0 Monitoring Program

Directly monitoring the stormwater quality within the network and across the various WSUD infrastructure is considered difficult to accomplish with a high degree of confidence due to the stochastic nature of the inflows and highly variable rainfall and concentrations of pollutants in stormwater discharge.

Instead, it is proposed that monitoring would be more valuable if the physical condition of the infrastructure is assessed and monitored, which would be an indicator of whether the system is functioning as designed and therefore meeting the required design criteria for the operational phase.

4.1 Monitoring

Monitoring of the drainage and WSUD infrastructure for the purpose of determining functional performance of the system will include:

- Observations of flow paths throughout the basins, swales and within the flow control pits to identify whether discharge has diverted from the intended path and to ensure water is being evenly distributed across the basins and wetlands.
- Observations of duration of flooding or extended storage of each of the basins, wetlands and other overland flow paths to identify potential clogging of filter media or other site blockages impeding the flow.
- Assessment of vegetation cover and health, to determine potential deficiencies in the planting for the basins or grassed and vegetated swales.
- Observations of turbidity of inflows and outflows at each of the basins.

4.2 Maintenance

Ongoing maintenance will be required for key stormwater and WSUD infrastructure to ensure they continue to perform as per their design intent. These maintenance duties will involve the inspection of the infrastructure and rectifying for the following:

- Damage to ground form due to scouring from overland flows, errant stormwater discharges and rutting from vehicles or other traffic.
- Presence of weeds, pests or plant growth that impacts the performance of the infrastructure.
- Accumulation of sediment or other debris that is causing blockages or impacting the intended flow paths throughout the system.
- Physical damage to manufactured infrastructure such as inlet grates, pits or pipes.
- Damage to or death of the plants and other vegetation. Replacement plants to be of same species for approved functional equivalents.
- Other damage to any element of the infrastructure.

Further to repairing and cleaning of the infrastructure, the included GPT unit will require periodic cleanout of any trapped materials and oils that have been removed from stormwater flows.

4.3 Schedules

Triggers for the monitoring and maintenance are outlined in Table 3 to Table 5 below.

All inspection routines are to be performed with respect to the items listed in 4.1 and 4.2.

Records for each inspection are to be taken for each item of infrastructure. Any maintenance works not resolved by the inspector at the time are to be scheduled and a record taken of completed activities. Additional conditions and details beyond those listed in Section 4.1 and 4.2 are included for reference in the tables. If inspections confirm that the treatment systems are functioning in accordance these

monitoring criteria, the stormwater treatment systems are expected to be operating as per the design requirements.

Inspections are to be carried out by an appropriately experienced environmental engineer/scientist and is to be documented with inspection reports issued to the current land owners for review, as well as any instructions for rectifications.

Table 3 Routine Inspection schedule and additional details

Purpose	Frequency	Infrastructure	Monitoring criteria and maintenance requirements
Routine Inspection	Quarterly (seasonally)	Swales	Should be clear of accumulated sediment, weed growth and litter. Grassed batters should be intact and not reshaped from scour. There should be no exposed soil in any portion of the swale. Mowing of grassed portions and trimming of dead vegetation matter to be undertaken.
		GPT	Internal system to be clear of obstructions. Accumulated filtered material should be cleared out as per manufacturers specifications and disposed of.
		Bioretention Basin	Should be clear of accumulated sediment, weed growth and litter. Inlet pits and surcharge pits to be clear of obstructions internally and at grates. Base surface of the basin expected to be relatively level. Batters and internal base to be intact and not suffering from scour. Vegetation to be healthy and free of pests or disease.
		Wetland	Should be clear of accumulated sediment, weed growth and litter as well as any loose plant matter even from specified plants. Inlet pits and surcharge pits to be clear of obstructions internally and at grates. Batters and internal base to be intact and not suffering from scour. Vegetation to be healthy and free of pests or disease and properly distributed throughout the basin per design – gaps of 1m^2 or more within the vegetated zones are to be revegetated. Isolated pools should not have formed within the basin and to be reshaped if they develop.
		OSD	OSD internal swale to be inspected as per Swales additional details. Internal grassed batters and external batters at the weir to be intact. Grass to be mowed and treated for weeds or pests. There should be no exposed soil in any portion of the OSD.
		Drainage Network	Flow control pits to be clear of accumulated sediment and litter. Any damage to pipes, joints, pit walls or grates to be corrected. Inspect for any potential leaks.

Table 4 Annual Inspection schedule and additional details

Purpose	Frequency	Infrastructure	Details
Annual Inspection	Yearly (Aug)	Swales	*Per Routine Inspection.* Replacement of scour protection aprons that have lost coverage..
		GPT	*Per Routine Inspection.* Accumulated filtered material cleared out per manufacturers specifications and disposed of. Replacement or maintenance of parts such as filter media or screens as needed per manufacturers specifications.
		Bioretention Basin	*Per Routine Inspection.* Flush points to be used to clear subsoil lines. Sediment quantity flushed through downstream pits to be recorded.

		Wetland	*Per Routine Inspection.* Overflow control pit to be clear of debris or accumulated sediment.
		OSD	*Per Routine Inspection.* Replacement of scour protection aprons that have diminished. Reshaping internal base grading if bulging or ponded water has been observed throughout the year.
		Drainage Network	*Per Routine Inspection.*

Table 5 After Rainfall Events schedule and additional details

Purpose	Frequency	Infrastructure	Details
After Rainfall Events	Following all rainfall events where 20mm or more has fallen within a 24hour period.	Swales	*Per Routine Inspection.* Water extents across swale profile to be noted against recent rainfall records. Errant flows or spills to be investigated.
		GPT	*Per Routine Inspection.* Internal flows operate per expected behaviour and baffle or filter systems are not being bypassed abnormally or being damaged.
		Bioretention Basin	*Per Routine Inspection.* Ponding of water beyond the expected durations (6-24 hours) is to be investigated for potential sediment build up preventing infiltration – clearing of accumulated silts or replacement of affected basin surface filter media layers may be required if ponding is excessive. Internal weir spilling to adjacent areas (swales, wetlands) to be monitored for evenness of discharge of water.
		Wetland	*Per Routine Inspection.* Internal weir spilling to adjacent areas (swales, OSD) to be monitored for evenness of discharge of water.
		OSD	*Per Routine Inspection.* Note water levels against reported rainfall records. Spills across the weir to be noted and recorded. Outlet discharge to be observed for potential of scour downstream. Observations of basin water levels and detention times to be noted if possible. .
		Drainage Network	*Per Routine Inspection.*

These schedules are to be reproduced with Work-As-Executed documentation of the completed site, along with as-built photographs of the assets intended for maintenance to provide reference for future inspection and rectification orders.

4.4 Non Compliance

Procedure for non-compliance items, as measured against items detailed within 4.1, 4.2 and 4.3, is to generally follow the below process:

- Identification – during the nominated schedule for inspection periods as outlined in tables above, if non-compliance (i.e. damage, etc.) is identified, this reporting process is to be implemented
- Review – a review of the identified non-compliance item is to be completed against the requirements of the governing policies as highlighted by this report
- Document – details of the non-compliance are to be recorded as identified
- Investigate – the cause of issue is to be investigated and confirmed through review of project documentation or further site investigations

- Assess – the impact of the non-compliance in relation to intended outcomes of the project and water quality system are to be determined for both short term and long term impacts
- Correction – a corrective plan is to be developed that will address the issues identified, establishing expected outcomes for identified short and long term impacts
- Implementation – once approved, the corrective plan is to be implemented
- Assessment – the system impacted by the non-compliance item is to be reevaluated, at the completion of the rectification works and at intervals relevant to the infrastucture item (referring to the tables above)
- Report – the outcome of the work and investigation is to be documented and made available for future ongoing maintenance procedures
- Maintenance – regular maintenance procedures to resume, based on schedules as provided, allowing for any corrective measures implemented by the investigation.

4.5 Responsibility & Review

4.5.1 Surrounding Development Triggers for Review

During the ongoing development of the overall Aerotropolis Core Precinct (Precinct), it is expected that the responsibility of maintaining the items listed in this SMP will fall to the overall landowner until such times as the public domain portions are dedicated to Council, the private asset owners or, in the case of the individual lots, the lot landowners. These responsibilities may change hands as development continues and should be reviewed prior to any handover.

Relating to Section 3.6.3 of this SMP:

Should surrounding development of the Precinct progress sufficiently to be able to provide either the long-term regional infrastructure along Moores Gully and Thompsons Creek or larger infrastructure downstream of the site (as part of staged development) such that the site-specific measures within this report would be redundant, then a review of this report and the requirements listed are to be undertaken. Such a review will need to include the following as part of considerations:

- Whether downstream stormwater and WSUD infrastructure is or can be designed to accommodate an untreated AMRF site such that the temporary measures could be removed from within the future private lot.
- Changes in regional strategy of the Precinct for WSUD in the inclusion of specific on-lot treatment noting that the current infrastructure is designed for far more than what would be expected of an individual lot owner.
- Changes in lifespan of temporary infrastructure beyond the initial allowance, where the design had assumed a lifespan of less than 10 years.
- Direction of outlets in relation to surrounding development stages.
- Whether further development within the AMRF lot has changed the nature of connection to external trunk drainage systems.

4.5.2 Part 5 Bradfield City Centre Stage 2A Civil Works

At the time finalising this management plan, the Stage 2A Enabling Works project is approved and funded and covers a site area of approximately 38 hectares of land to the south of the First Building site. The project involves the delivery of new roads, streetscape works, civil works and public utilities to be delivered in a staged construction scheduled to be completed by 2026. Further information on this approved project can be found at *https://www.planningportal.nsw.gov.au/part-5/bradfield-city-centre-stage-2a-civil-works*.

As mentioned in Section 3.4, modification of the AMRF's southern swale and the associated water conveyance past the metro site will be undertaken by this project. There are no negative impacts to

water flow or quality targets outlined in this management plan. Upon the completion of these works, relevant plans within this management plan are to be updated by the landowner.

Appendix A

Living Building Challenge & Greenstar Memo

AECOM

7 November 2023

Aaron Persson
ESD Manager
Level 16, 100 Pacific Highway, North Sydney NSW 2060
M. +61 404 858 895

Dear Aaron

RE: GS-7879B - AMRF - First Building: Cr 39 Waterway Protection - TQ

Executive Summary:

Changes made to the AMRF design following initial review for SSDA approval have been completed to allow continuing achievement of the Wianamatta South Creek regional waterway health objectives. This letter has been produced to supplement existing documentation to demonstrate the achieved performance of the proposed design.

Introduction

AECOM was engaged to carry out the Civil Engineering Design to support the State Significant Development Application (SSDA) for the Stage 1A First Building, known as the Advanced Manufacturing and Research Facility (AMRF), concept proposal within the new Bradfield City Centre of the Western Sydney Aerotropolis.

This letter has been prepared in response to comments received from the Green Building Council Australia (received 27.10.2023) regarding the need for further documentation demonstrating compliance with the governing technical criteria while also accounting for changes made to the design during construction.

The assessment outcome contained within this letter demonstrates the performance of water quality and flow control measures implemented by the proposed design to achieve the objectives of the governing technical criteria.

Background

This letter is to be read in conjunction with the accompanying documents as listed below, with direct referral to the Stormwater Management Plan prepared by AECOM for details regarding the stormwater network design as it relates to water quality objectives.

Table 1 Reference documents

Document	Comment
Stormwater Management Plan (SMP) – AECOM	Performance criteria of the stormwater infrastructure and maintenance responsibilities.
Technical Guidance for achieving Wianamatta South Creek Stormwater Management Targets – NSW DPIE	Includes accompanying 'Toolkit' and serves as primary study for regional objectives in achieving healthy waterways.
Western Sydney Aerotropolis DCP 2021 Phase 2 – NSW DPIE	Primary criteria for performance objectives for new developments in the region.
Blacktown Council WSUD manual – BCC	Supplementary guidance on WSUD criteria.
Civil engineering plans - AECOM	Plans and details of proposed design.

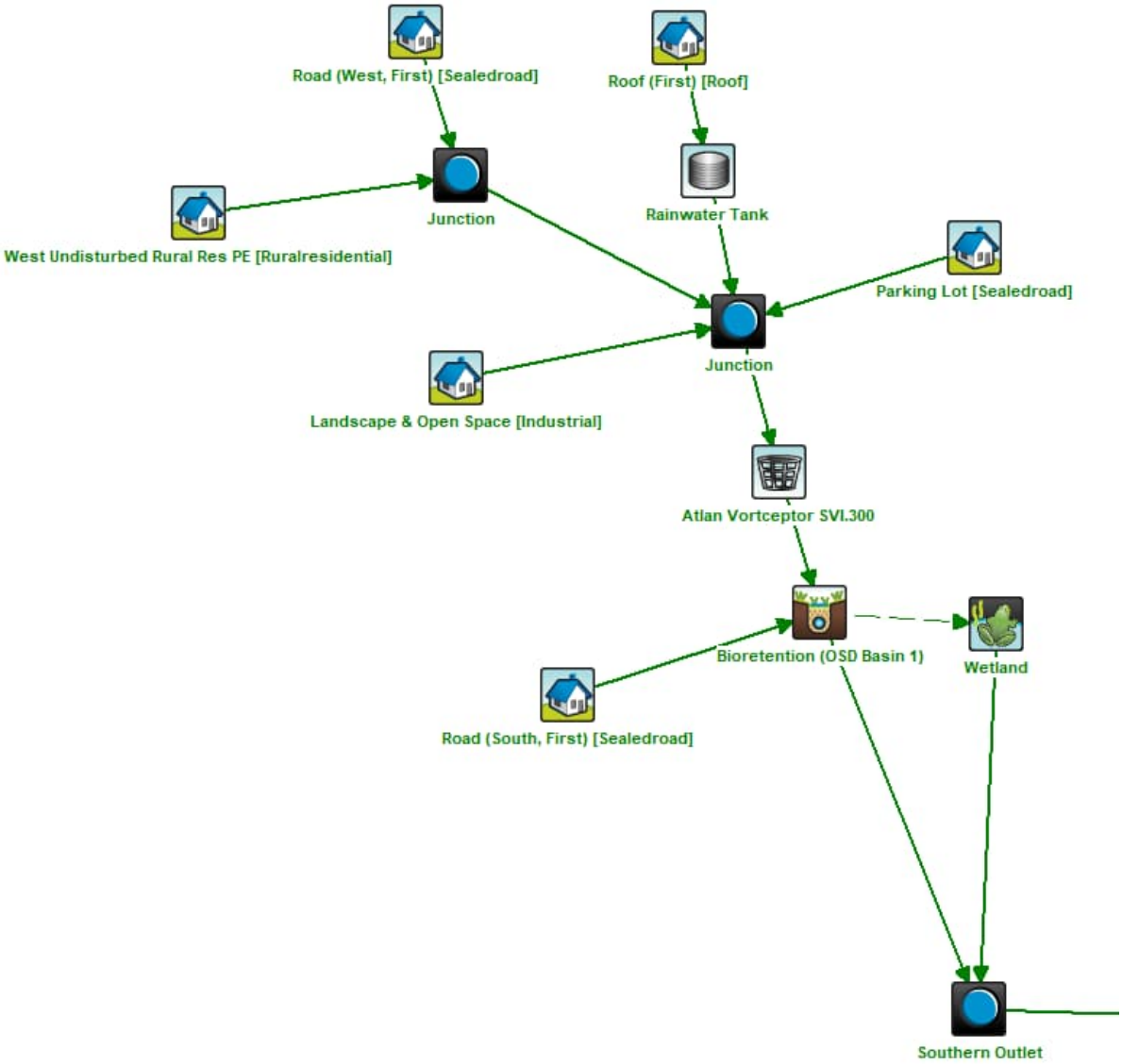

Figure 1 Southern outlet – MUSIC model arrangement

The changes made since the original assessment and consultation with EHG and DPIE include the following, as it relates to the construction of the AMRF building site:

- Alternative GPT unit: Proposed OS1112 replaced with Atlan Vortceptor SVI.300
- Larger bioretention and wetland basins (approximately 5%) but shallower filter media in the bioretention basin, from 500mm to 450mm.
- Adjusted catchments to reflect changes in road grading at the intersection adjacent to the building site.

Additional alterations were made to the northern basin to accommodate road and swale grading as well as to provide a bypass for undeveloped catchments to the north west of the AMRF building site and are reflected in the accompanying civil engineering plans.

Water Quality & Flow Assessment

The volumetric and water quality targets were assessed based on a model produced by the software Model for Urban Stormwater Improvement Conceptualisation (MUSIC) and the hydraulic network and design flows throughout the site were modelled in the software DRAINS.

In accordance with Aerotropolis DCP 2, water quality pollution reduction targets have been adopted for use with the assessment of the site via a MUSIC model. Results of the model as prepared in consultation and agreement with EHG and DPIE, and updated to reflect changes on site during construction, are displayed in Table 2 and Table 3.

The expected pollutant reduction at the southern outlet is presented in Table 2.

Table 2 Southern Outlet pollutant reduction values achieved

Benchmark Solution		Achieved Reduction
Gross Pollutants	90% reduction (min)	100%
Total Suspended Solids (TSS)	90% reduction	97%
Total Phosphorus (TP)	80% reduction	86%
Total Nitrogen (TN)	65% reduction	72%

For the total site performance, including the northern basin, results are presented in Table 3

Table 3 Total site pollutant reduction values achieved

Benchmark Solution		Achieved Reduction
Gross Pollutants	90% reduction (min)	100%
Total Suspended Solids (TSS)	90% reduction	90%
Total Phosphorus (TP)	80% reduction	82%
Total Nitrogen (TN)	65% reduction	72%

Predicted flow reductions from the MUSIC model were compared against the volumetric flow criteria of the outlet of the OSD basin, denoted as the southern outlet.

Targets Alternative 2			
Indice	**Result**	**Comply**	**Target**
MARV (ML/ha/yr)	1.72	Yes	≤ 2
90%ile	4844	Yes	1000 to 5000 L/ha/day
50%ile	5	Yes	5 to 100 L/ha/day
10%ile	0	Yes	0 L/ha/day

Figure 2 Southern outlet - Targets Alternative 2 flow reduction performance

Similarly, the total site performance results are presented below in Figure 3.

Targets Alternative 2			
Indice	**Result**	**Comply**	**Target**
MARV (ML/ha/yr)	1.63	Yes	≤ 2
90%ile	4067	Yes	1000 to 5000 L/ha/day
50%ile	44	Yes	5 to 100 L/ha/day
10%ile	0	Yes	0 L/ha/day

Figure 3 Total site - Targets Alternative 2 flow reduction performance

AECOM

Conclusion & Limitations

Changes made to roads and stormwater infrastructure including basins during the ongoing construction phase coordination have been completed to continue providing compliance with the nominated design criteria for waterways health or stormwater discharge conditions.

Both the stormwater discharge pollutant load reduction targets and flow reduction targets were achieved for the AMRF building site and overall site combined.

This assessment is limited to the proposed design and does not absolve maintenance responsibilities of the WSUD infrastructure following completion of construction – refer to the accompanying SMP for details on ongoing efforts needed to maintain performance objectives during the lifespan of the proposed works.

Sincerely,

Chris Roberts

Senior Civil and Structural Engineer, Urban & Place, NSW/ACT
M +61 437 016 072

chris.roberts@aecom.com

Appendix B

Civil Engineering Plans

ISO A1 594mm x 841mm

BRADFIELD CITY CENTRE

STAGE 1A - AMRF FIRST BUILDING

PRELIMINARY DESIGN

DRAWING LIST

DRAWING NUMBER	DRAWING TITLE
60646285-SHT-00-1000-CI-0001	COVER SHEET AND DRAWING INDEX
60646285-SHT-00-1000-CI-0005	GENERAL NOTES
60646285-SHT-00-1000-CI-0006	PAVEMENT NOTES
60646285-SHT-00-1000-CI-0008	STRUCTURAL NOTES
60646285-SHT-00-1000-CI-0015	EXISTING CONDITIONS AND TOPOGRAPHIC OVERALL
60646285-SHT-00-1000-CI-0051	DEMOLITION PLAN
60646285-SHT-00-1000-CI-0061	BULK EARTHWORKS PLAN
60646285-SHT-00-1000-CI-0121	GENERAL ARRANGEMENT PLAN SHEET 01
60646285-SHT-00-1000-CI-0122	GENERAL ARRANGEMENT PLAN SHEET 02
60646285-SHT-00-1000-CI-0141	TYPICAL SITE SECTIONS SHEET 01
60646285-SHT-00-1000-CI-0142	TYPICAL SITE SECTIONS SHEET 02
60646285-SHT-00-1000-CI-0143	TYPICAL SITE SECTIONS SHEET 03
60646285-SHT-00-1000-CI-0161	SIGNAGE AND LINEMARKING PLAN
60646285-SHT-00-1000-CI-0201	PAVEMENT PLAN SHEET 01
60646285-SHT-00-1000-CI-0202	PAVEMENT PLAN SHEET 02
60646285-SHT-00-1000-CI-0301	ROAD CONTROL PLAN
60646285-SHT-00-1000-CI-0321	ROAD CONTROL SET-OUT TABLES
60646285-SHT-00-1000-CI-0341	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 01
60646285-SHT-00-1000-CI-0342	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 02
60646285-SHT-00-1000-CI-0343	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 03
60646285-SHT-00-1000-CI-0344	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 04
60646285-SHT-00-1000-CI-0345	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 05
60646285-SHT-00-1000-CI-0346	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 06
60646285-SHT-00-1000-CI-0347	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 07
60646285-SHT-00-1000-CI-0348	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 08
60646285-SHT-00-1000-CI-0349	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 09
60646285-SHT-00-1000-CI-0350	ROAD CONTROL LONGITUDINAL SECTIONS SHEET 10
60646285-SHT-00-1000-CI-0371	ROAD CONTROL CROSS SECTIONS SHEET 01
60646285-SHT-00-1000-CI-0372	ROAD CONTROL CROSS SECTIONS SHEET 02
60646285-SHT-00-1000-CI-0373	ROAD CONTROL CROSS SECTIONS SHEET 03
60646285-SHT-00-1000-CI-0374	ROAD CONTROL CROSS SECTIONS SHEET 04
60646285-SHT-00-1000-CI-0375	ROAD CONTROL CROSS SECTIONS SHEET 05
60646285-SHT-00-1000-CI-0376	ROAD CONTROL CROSS SECTIONS SHEET 06
60646285-SHT-00-1000-CI-0377	ROAD CONTROL CROSS SECTIONS SHEET 07
60646285-SHT-00-1000-CI-0378	ROAD CONTROL CROSS SECTIONS SHEET 08
60646285-SHT-00-1000-CI-0379	ROAD CONTROL CROSS SECTIONS SHEET 09
60646285-SHT-00-1000-CI-0380	ROAD CONTROL CROSS SECTIONS SHEET 10

DRAWING LIST (CONTINUED)

DRAWING NUMBER	DRAWING TITLE
60646285-SHT-00-1000-CI-0401	KERB CONTROL PLAN
60646285-SHT-00-1000-CI-0421	KERB CONTROL SET-OUT TABLES
60646285-SHT-00-1000-CI-0441	KERB CONTROL LONGITUDINAL SECTIONS SHEET 01
60646285-SHT-00-1000-CI-0442	KERB CONTROL LONGITUDINAL SECTIONS SHEET 02
60646285-SHT-00-1000-CI-0443	KERB CONTROL LONGITUDINAL SECTIONS SHEET 03
60646285-SHT-00-1000-CI-0444	KERB CONTROL LONGITUDINAL SECTIONS SHEET 04
60646285-SHT-00-1000-CI-0445	KERB CONTROL LONGITUDINAL SECTIONS SHEET 05
60646285-SHT-00-1000-CI-0446	KERB CONTROL LONGITUDINAL SECTIONS SHEET 06
60646285-SHT-00-1000-CI-0447	KERB CONTROL LONGITUDINAL SECTIONS SHEET 07
60646285-SHT-00-1000-CI-0448	KERB CONTROL LONGITUDINAL SECTIONS SHEET 08
60646285-SHT-00-1000-CI-0449	KERB CONTROL LONGITUDINAL SECTIONS SHEET 09
60646285-SHT-00-1000-CI-0450	KERB CONTROL LONGITUDINAL SECTIONS SHEET 10
60646285-SHT-00-1000-CI-0451	KERB CONTROL LONGITUDINAL SECTIONS SHEET 11
60646285-SHT-00-1000-CI-0452	KERB CONTROL LONGITUDINAL SECTIONS SHEET 12
60646285-SHT-00-1000-CI-0471	KERB CONTROL CROSS SECTIONS SHEET 01
60646285-SHT-00-1000-CI-0472	KERB CONTROL CROSS SECTIONS SHEET 02
60646285-SHT-00-1000-CI-0601	COMBINED SERVICES PLAN
60646285-SHT-00-1000-CI-0611	SEWER GENERAL ARRANGEMENT
60646285-SHT-00-1000-CI-0612	SEWER TYPICAL SECTIONS AND CONNECTION DETAILS
60646285-SHT-00-1000-CI-0613	SEWER PROCESS & INSTRUMENTATION DIAGRAM
60646285-SHT-00-1000-CI-0621	STORMWATER DRAINAGE PLAN SHEET 01
60646285-SHT-00-1000-CI-0622	STORMWATER DRAINAGE PLAN SHEET 02
60646285-SHT-00-1000-CI-0623	STORMWATER DRAINAGE PLAN SHEET 03
60646285-SHT-00-1000-CI-0641	STORMWATER PIT SCHEDULE
60646285-SHT-00-1000-CI-0651	STORMWATER LONGITUDINAL SECTIONS SHEET 01
60646285-SHT-00-1000-CI-0652	STORMWATER LONGITUDINAL SECTIONS SHEET 02
60646285-SHT-00-1000-CI-0653	STORMWATER LONGITUDINAL SECTIONS SHEET 03
60646285-SHT-00-1000-CI-0654	STORMWATER LONGITUDINAL SECTIONS SHEET 04
60646285-SHT-00-1000-CI-0655	STORMWATER LONGITUDINAL SECTIONS SHEET 05
60646285-SHT-00-1000-CI-0656	STORMWATER LONGITUDINAL SECTIONS SHEET 06
60646285-SHT-00-1000-CI-0657	STORMWATER LONGITUDINAL SECTIONS SHEET 07
60646285-SHT-00-1000-CI-0658	STORMWATER LONGITUDINAL SECTIONS SHEET 08
10 60646285-SHT-00-1000-CI-0659	STORMWATER LONGITUDINAL SECTIONS SHEET 09
60646285-SHT-00-1000-CI-0671	STORMWATER POST DEVELOPMENT CATCHMENT PLAN
60646285-SHT-00-1000-CI-0680	BIORETENTION BASIN NOTES
60646285-SHT-00-1000-CI-0681	WSUD/OSD BASIN PLAN TYPICAL SECTION SHEET 01
60646285-SHT-00-1000-CI-0682	WSUD/OSD BASIN PLAN TYPICAL SECTION SHEET 02
60646285-SHT-00-1000-CI-0683	WSUD/OSD BASIN PLAN TYPICAL SECTION SHEET 03
60646285-SHT-00-1000-CI-0684	WSUD/OSD BASIN PLAN TYPICAL SECTION SHEET 04

DRAWING LIST (CONTINUED)

DRAWING NUMBER	DRAWING TITLE
60646285-SHT-00-1000-CI-0691	WSUD/OSD BASIN SETOUT TABLE
60646285-SHT-00-1000-CI-0911	PAVEMENT DETAILS SHEET 01
60646285-SHT-00-1000-CI-0912	PAVEMENT DETAILS SHEET 02
60646285-SHT-00-1000-CI-0913	PAVEMENT DETAILS SHEET 03
60646285-SHT-00-1000-CI-0914	PAVEMENT DETAILS SHEET 04
60646285-SHT-00-1000-CI-0915	PAVEMENT DETAILS SHEET 05
60646285-SHT-00-1000-CI-0916	PAVEMENT DETAILS SHEET 06
60646285-SHT-00-1000-CI-0917	PAVEMENT DETAILS SHEET 07
60646285-SHT-00-1000-CI-0921	STREET LIGHTING TYPICAL DETAILS
60646285-SHT-00-1000-CI-0931	STREET FURNITURE DETAILS
60646285-SHT-00-1000-CI-0941	STORMWATER DRAINAGE PIT GEOMETRY SHEET 01
60646285-SHT-00-1000-CI-0942	STORMWATER DRAINAGE PIT GEOMETRY SHEET 02
60646285-SHT-00-1000-CI-0943	STORMWATER DRAINAGE PIT GEOMETRY SHEET 03
60646285-SHT-00-1000-CI-0944	STORMWATER DRAINAGE PIT GEOMETRY SHEET 04
60646285-SHT-00-1000-CI-0951	STORMWATER DRAINAGE TYPICAL PIT DETAILS SHEET 01
60646285-SHT-00-1000-CI-0952	STORMWATER DRAINAGE TYPICAL PIT DETAILS SHEET 02
60646285-SHT-00-1000-CI-0953	STORMWATER DRAINAGE TYPICAL PIT DETAILS SHEET 03
60646285-SHT-00-1000-CI-0961	WSUD/OSD DETAILS SHEET 01
60646285-SHT-00-1000-CI-0962	WSUD/OSD DETAILS SHEET 02
60646285-SHT-00-1000-CI-0971	TURNING PATH PLAN SHEET 01
60646285-SHT-00-1000-CI-0972	TURNING PATH PLAN SHEET 02
60646285-SHT-00-1000-CI-0973	TURNING PATH PLAN SHEET 03
60646285-SHT-00-1000-CI-0974	TURNING PATH PLAN SHEET 04
60646285-SHT-00-1000-CI-0975	TURNING PATH PLAN SHEET 05
60646285-SHT-00-1000-CI-0980	SEDIMENT AND EROSION CONTROL NOTES
60646285-SHT-00-1000-CI-0981	EROSION AND SEDIMENT CONTROL PLAN
60646285-SHT-00-1000-CI-0991	EROSION AND CONTROL SEDIMENT DETAILS
60646285-SHT-00-1000-LV-0001	STREET LIGHTING GENERAL NOTES AND LEGEND
60646285-SHT-00-1000-LV-0121	STREET LIGHTING SITE PLAN SHEET 01
60646285-SHT-00-1000-LV-0122	STREET LIGHTING SITE PLAN SHEET 02
60646285-SHT-00-1000-LV-0301	STREET LIGHTING SCHEMATIC
60646285-SHT-00-1000-LV-0401	STREET LIGHTING TYPICAL DETAILS
60646285-SHT-00-1000-LV-0601	STREET LIGHTING CIRCUIT BREAKER SCHEDULE
60646285-SHT-00-1000-LV-0602	STREET LIGHTING CABLE SCHEDULE
60646285-SHT-00-1000-LV-0603	STREET LIGHTING LUMINAIRE SCHEDULE

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CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
10	08.11.23	FOR APPROVAL
9	15.08.23	ISSUED FOR CONSTRUCTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC
5	02.09.22	ISSUED FOR APPROVAL

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

COVER SHEET AND
DRAWING INDEX

SHEET NUMBER

60646285-SHT-00-1000-CI-0001

ISO A1 594mm x 841mm

GENERAL

1 THE INFORMATION CONTAINED IN THESE DRAWINGS PRODUCED BY AECOM IS SOLELY FOR THE USE OF WESTERN PARKLAND CITY AUTHORITY (WPCA) FOR THE PURPOSE FOR WHICH IT HAS BEEN PREPARED. AECOM AUSTRALIA PTY LTD UNDERTAKES NO DUTY TO OR ACCEPTS NO RESPONSIBILITY TO ANY THIRD PARTY WHO MAY RELY UPON THIS DOCUMENT.
2 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING AND PUBLIC DOMAIN DRAWINGS, WESTERN SYDNEY ENGINEERING DESIGN MANUAL AND WITH SUCH OTHER WRITTEN INSTRUCTIONS, AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
3 ANY DISCREPANCIES BETWEEN THESE NOTES AND DRAWINGS, AND WESTERN SYDNEY ENGINEERING DESIGN MANUAL, REFER TO THE PRINCIPAL'S REPRESENTATIVE.
4 ANY DISCREPANCIES OR OMISSIONS FROM THESE DOCUMENTS SHALL BE REFERRED TO THE PRINCIPAL'S REPRESENTATIVE FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
5 ALL WORKMANSHIP AND MATERIALS TO COMPLY WITH LCC STANDARD CONSTRUCTION SPECIFICATIONS. WHERE NONE ARE AVAILABLE THEN ALL WORK IS TO BE COMPLETED TO RELEVANT STANDARDS OF TfNSW, CURRENT AUSTRALIAN STANDARDS, CURRENT AUSTRALIAN STANDARDS OR LOCAL STATUTORY AUTHORITY GUIDELINES.
6 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL CHAINAGES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
7 ALL DIMENSIONS RELEVANT TO SETTING OUT OR OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION HAS COMMENCED.
8 DO NOT SCALE FROM DRAWINGS.
9 ORIGIN OF LEVELS - AHD
COORDINATES TO MGA - MAP GRID AUSTRALIA ZONE 56 GDA94.
10 WHERE NOTED ON DRAWINGS THAT WORKS ARE TO BE CARRIED OUT BY OTHERS, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF THESE WORKS AND THIS WORK WILL NOT QUALIFY FOR DELAY CLAIMS.
11 WHERE A PROPRIETARY ITEM (OR EQUIVALENT) IS SPECIFIED, AND AN EQUIVALENT ITEM IS PROPOSED, THE CONTRACTOR SHALL PROVIDE MANUFACTURERS SPECIFICATIONS FOR BOTH PRODUCTS TO THE SUPERINTENDENT FOR APPROVAL, AND DEMONSTRATE THAT THE PRODUCT PERFORMANCE IS EQUIVALENT OR BETTER, PRIOR TO USE.
12 ALL PROPRIETARY PRODUCTS ARE TO BE INSTALLED FIXED AND TESTED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
13 DURING CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE STRUCTURES AND EXCAVATIONS ARE MAINTAINED IN A SAFE AND STABLE CONDITION AT ALL TIME AND NO PART IS TO BE OVERSTRESSED. THE CONTRACTOR SHALL DEVELOP WORK METHOD STATEMENTS FOR ALL ERECTION OF STRUCTURAL STEEL/FORMWORK/ DEMOLITION/EXCAVATION/TILT PANELS ETC. AND PROVIDE TEMPORARY WORKS SUCH AS BRACING, PROPPING AND SHORING ETC. TO KEEP THE WORKS AND EXCAVATIONS STABLE AND FREE FROM WATER AT ALL TIMES. THE CONTRACTOR IS TO ENGAGE A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY THE TEMPORARY WORKS.
14 ALL CONSTRUCTION INSPECTIONS ARE TO BE CONDUCTED PER WESTERN SYDNEY ENGINEERING DESIGN MANUAL OR LCC/TfNSW WHERE NONE ARE AVAILABLE.

SITEWORKS

1 THE CONTRACTOR TO MAKE SMOOTH CONNECTION TO ANY EXISTING WORKS.
2 ON COMPLETION OF THE WORKS, THE CONTRACTOR MUST RESTORE OR REINSTATE ANY AREAS, STRUCTURES, PAVEMENTS OR UTILITY SERVICES DAMAGED OR DIRTIED DURING THE CONSTRUCTION, TO THE SATISFACTION OF THE PRINCIPAL OR THE ASSET OWNER.
3 ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
4 ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED IN ACCORDANCE WITH LCC STANDARD DRAWINGS.
5 PROVIDE ISOLATION JOINTS BETWEEN STRUCTURES AND ALL CONCRETE AND UNIT PAVEMENTS.
6 CONTRACTOR IS TO ENSURE THAT ALL WORKS DO NOT IMPACT ON THE ACTIVITIES OF THE METRO INCLUDING NOT RESTRICTING OR IMPEDING SITE ACCESS.

BULK EARTHWORKS

1. THE CONTRACTOR MUST FAMILIARISE THEMSELVES WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORTS FOR THE PROJECT.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SAFE EXCAVATION, CONTAMINATION MANAGEMENT AND DISPOSAL OF ALL CONTAMINATED MATERIALS FOUND WITHIN ANY EXCAVATION IN UNREMEDIATED LAND.
3. MATERIALS USED IN FILL MUST BE CLEAN IMPORTED GRANULAR VENM AND BE NON-PUTRESCIBLE IN NATURE.
4. ALL EXCAVATED MATERIAL NOT CLASSED AS VENM AND NOT ABLE TO BE REUSED, MUST BE STOCKPILED AS DIRECTED BY PRINCIPAL.
5. COMPACTION, TESTING, FILLING, STANDARD DRY DENSITIES AND MOISTURE CONTENTS TO BE IN ACCORDANCE WITH THE SPECIFICATION.
6. ALL EARTHWORKS AREAS SHALL BE ROLLED EACH EVENING TO RESTRICT POTENTIAL WATER INGRESS.
7. FOR DETAILS OF SOIL CONDITIONS AND DESIGN PARAMETERS REFER TO GEOTECHNICAL REPORT AND ANY OTHER INVESTIGATION WORK AND/OR TESTING DEEMED NECESSARY BY THE CONTRACTOR.

SAFETY

1 THE CONTRACTOR IS RESPONSIBLE FOR SAFETY ONSITE.
2 THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXCAVATION WORKS IN A STABLE CONDITION, AND ENSURING NO PART SHALL BE OVERSTRESSED DURING CONSTRUCTION ACTIVITIES. PROVISION OF TEMPORARY BRACING, SHORING AND BATTERING IS BY THE CONTRACTOR AS REQUIRED TO PROVIDE A SAFE WORKING ENVIRONMENT.
3 THE CONTRACTOR MUST MAKE PROVISION FOR THE SAFETY OF NORMAL VEHICULAR TRAFFIC AND PEDESTRIANS, AND OTHERS INCLUDING UNAUTHORISED INTRUDERS.
4 ALL PITS, MANHOLES, AND OTHER CONFINED SPACES MUST BE FITTED WITH A CONFINED SPACE WARNING SIGN TO THE APPROVAL OF THE PRINCIPAL.
5 ALL CONDITIONS OF THE ENVIRONMENTAL ASSESSMENT MUST BE MET.

STORMWATER DRAINAGE

1 PIPES 375mm DIA AND LARGER TO BE REINFORCED CONCRETE CLASS'4', 10/20 COVER, APPROVED SPIGGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O. ALL PIPEWORK IS TO BE LAID WITH THE SOCKET FACING UPSTREAM. ALL WORKS ARE TO COMMENCE AT THE OUTLET END OF EACH LINE. USE OF FRP CONCRETE PIPES IN PLACE OF RCP ARE TO BE APPROVED BY PRINCIPAL.
2 PIPES TO BE INSTALLED TO TYPE HS3 SUPPORT UNDER ROADS, PATHS AND DRIVEWAYS, AND TO TYPE HS2 ELSEWHERE, IN ACCORDANCE WITH AS3725. BACKFILLING AND MATERIALS IS TO BE IN ACCORDANCE WITH THE BACKFILLING SPECIFICATION.
3 PITS TO BE CONSTRUCTED IN ACCORDANCE WITH WESTERN SYDNEY ENGINEERING DESIGN MANUAL STANDARD DETAILS. PRECAST PITS SHALL BE CONSIDERED IN CONSULTATION WITH LIVERPOOL CITY COUNCIL.
4 CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
5 GRATES AND COVERS SHALL CONFORM TO RELEVANT WESTERN SYDNEY ENGINEERING DESIGN MANUAL STANDARD PIT DETAILS.
6 AT ALL TIMES DURING CONSTRUCTION, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO PREVENT PERSONNEL FROM FALLING INTO PITS AND OPEN TRENCHES.
7 ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN, ARE TO BE INSPECTED AND CLEANED, AND ANY PART OF THAT SYSTEM IDENTIFIED AS WARRANTING REPAIR, SHALL BE REPORTED TO THE PRINCIPAL FOR FURTHER DIRECTION.
8 CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT PIPES FROM DAMAGE DUE TO HEAVY CONSTRUCTION LOADING. CONTRACTOR TO UNDERTAKE PRE AND POST CONSTRUCTION CCTV INSPECTIONS FOR ALL PIPE LINES IMPACTED BY THE WORKS, TO BE PROVIDED TO PRINCIPAL FOR ACCEPTANCE PRIOR TO HAND-OVER.
9 THE CONTRACTOR IS TO MANAGE AND STAGE CONSTRUCTION WORKS, INCLUDING PROVIDING TEMPORARY DIVERSION WORKS IF NECESSARY, TO ENSURE ANY EXISTING DRAINAGE SYSTEM IS ABLE TO PERFORM TO ITS CURRENT STANDARD.
10 THE CONTRACTOR SHALL PROTECT THE WORKS IN PROGRESS. ANY DAMAGE TO THE WORKS IN PROGRESS, INCLUDING FROM STORMWATER FLOWS OR FLOODING, IS AT THE CONTRACTOR'S RISK.

UTILITY SERVICES

1 THESE DRAWINGS SHALL TO BE READ IN CONJUNCTION WITH ALL PUBLIC OR PRIVATE SERVICE PROVIDER DRAWINGS, INCLUDING BUT NOT LIMITED TO:
- ENDEAVOUR ENERGY DRAWINGS
- NBN DRAWINGS
- SYDNEY WATER DRAWINGS CN188803PW FOR SYDNEY METRO POTABLE WATER MAIN DESIGN;
- TELSTRA DRAWINGS

2 EXISTING UTILITIES SHOWN ON DRAWINGS ARE INDICATIVE ONLY AND MAY NOT INCLUDE ALL SERVICES PRESENT. AECOM TAKES NO RESPONSIBILITY FOR THE UTILITY INFORMATION AS SHOWN ON THESE DRAWINGS.
3 IT IS THE CONTRACTORS RESPONSIBILITY TO LIAISE WITH EACH UTILITY SERVICE PROVIDER ON SITE, TO LOCATE AND IDENTIFY THE SIZE, POSITION, LINE AND LEVEL OF ALL UTILITY SERVICES IN BOTH PUBLIC AND PRIVATE LAND, PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
4 THE CONTRACTOR MUST TAKE EVERY PRECAUTION TO PROTECT EXISTING AND NEW UTILITY SERVICES THROUGH THE COURSE OF THE CONTRACT.
5 THE EXECUTION OF ALL WORKS INVOLVING UTILITY SERVICES, EITHER NEW OR EXISTING, IS THE RESPONSIBILITY OF THE CONTRACTOR AND FORM PART OF THE CONTRACT PRICE, UNLESS SPECIFICALLY NOTED OTHERWISE.
6 ALL WORKS INVOLVING UTILITY SERVICES TO BE UNDERTAKEN TO THE SATISFACTION OF THE UTILITY SERVICE PROVIDER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENGAGING WITH THE UTILITY SERVICE PROVIDER, THE EXECUTION OF THE WORK TO THEIR REQUIREMENTS AND PROCUREMENT OF APPROVALS FOR WORKS UNDERTAKEN.
6 ALL WORKS INVOLVING UTILITY SERVICES MUST ONLY BE UNDERTAKEN USING PLANS APPROVED BY THE UTILITY SERVICE PROVIDER.
8 ALL SERVICE PIT COVERS AND MARKERS ARE TO BE PLACED IN ACCORDANCE WITH THE LOCATIONS AS SHOWN ON THE DRAWINGS, AND IN ACCORDANCE WITH THE SPECIFICATION.
9 ALL SERVICE PIT COVERS TO BE PLACED AT FINISHED SURFACE LEVELS TO MATCH THE PROPOSED LONGITUDINAL AND CROSS FALL GRADES OF THE FOOTPATH OR ROADWAY IT IS CONTAINED WITHIN.
10 NO PIPE OR TRENCH SHALL BE LOCATED WITHIN THE ZONE OF INFLUENCE (1V:1H) OF A FOOTING.
11 MINIMUM CLEARANCES BETWEEN SERVICES TO BE PROVIDED UNLESS DIRECTED BY THE PRINCIPAL.
12 "WORKS AS CONSTRUCTED" SURVEY ON ALL UTILITY WORK SHALL BE RECORDED PRIOR TO ANY BACKFILLING.
13 ENDEAVOUR ENERGY TRANSMISSION CABLES - ENDEAVOUR ENERGY SUPERVISOR SHALL BE ON SITE WHEN EXCAVATION IS WITHIN 2m OF TRANSMISSION CABLES.

TELSTRA DUTY OF CARE

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS, TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

KERB NOTES

1 ALL CONCRETE FOR KERBS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O. IN THE DRAWINGS.
2 ALL KERBS, GUTTERS AND CROSSINGS TO BE CONSTRUCTED ON 150mm (DGB20), COMPACTED TO MINIMUM 98% STANDARD MDD (AS1289 5.2.1)
3 EXPANSION JOINTS (E.J.) TO BE FORMED FROM 15mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT PITS, ON TANGENT POINTS OF CURVES, AND ELSEWHERE AT MAXIMUM 15m.
4 WEAKENED PLANE JOINTS TO BE 5mm WIDE AND LOCATED AT 3m CENTRES, EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5 BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISH.
6 KERB RAMPS SHALL BE IN ACCORDANCE WITH WESTERN SYDNEY ENGINEERING DESIGN MANUAL STANDARD DETAILS AND ALL LOCATIONS ARE TO BE VERIFIED ON SITE WITH THE PRINCIPAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.

SURVEY NOTES

1. THE SURVEY INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AECOM DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT THE PRINCIPAL'S REPRESENTATIVE.
2. THE FOLLOWING SURVEY DATA HAS BEEN ADOPTED FOR THE PURPOSE OF DESIGN:
-PR146456-DET_001a.12da, BY RPS (RECEIVED 12 NOVEMBER 2020).
3. THE FOLLOWING SYDNEY METRO ACCESS ROAD DESIGN INFORMATION HAS BEEN ADOPTED FOR THE PURPOSE OF DESIGN:
- P0054028-MOD-1000-RD-ROAD-MODEL_20210907.12da RECEIVED 08 SEPT 2021
4. CONTRACTOR TO UNDERTAKE ON-SITE VERIFICATION OF THE AS-BUILT SYDNEY METRO ACCESS TRACK AND CONTACT THE PRINCIPAL FOR DIRECTION SHOULD ANY DISCREPANCIES BE FOUND.

PAVEMENT NOTES

1. FOR VEHICULAR PAVEMENT AND ASSOCIATED SUBSOIL DRAINAGE DETAILS, REFER TO THE FOLLOWING:
- GEOTECHNICAL INVESTIGATION REPORT PREPARED FOR ERM BY ADE CONSULTING GROUP, LAST REVISED 11 MARCH 2022
- PAVEMENT THICKNESS DESIGN REPORT PREPARED FOR ERM BY ADE CONSULTING GROUP, LAST REVISED 04 APRIL 2022

STANDARD DRAWINGS

1. WESTERN SYDNEY PLANNING PARTNERSHIP STANDARD DRAWINGS CAN BE FOUND IN THE WESTERN SYDNEY ENGINEERING DESIGN MANUAL AT THE FOLLOWING LOCATION:
https://static1.squarespace.com/static/5bfca472b10598dbe206dd0d/t/6108c7e3a9133901b776f8a5/1627965445244/Western+Sydney+Engineering+Design+Manual_1220.pdf

WESTERN SYDNEY PLANNING PARTNERSHIP (WSPP) STANDARD DRAWINGS

STANDARD DRAWING NUMBER	TITLE	LAST REVISED
SD-R04	KERBS & GUTTERS	Nov-20
SD-R05	SUBSOIL DRAINAGE	Nov-20
SD-R12	OFF-ROAD SHARED BICYCLE AND FOOTPATH	Nov-20
SD-R26	THRESHOLD PAVEMENTS AT INTERSECTIONS	Nov-20
SD-R30	PIPE INSTALLATION UNDER ROADWAYS	Nov-20
SD-R31	V DRAIN PIT	Nov-20
SD-R46	EXPANSION JOINT DETAIL	Nov-20
SD-R48	VEHICULAR DISH CROSSING INTERNAL USE	Nov-20
SD-R63	CONCRETE HEADWALLS FOR SINGLE PIPE CULVERTS	Nov-20
SD-R69	TRIMMER BARS AROUND PIPE PENETRATIONS INTO PITS	Nov-20
SD-S06	GRATED GULLY PIT WITH EXTENDED KERB INLET PIT	Nov-20
SD-S09	STEP IRONS	Nov-20
SD-S11	SURFACE INLET & LETTER BOX PIT	Nov-20
SD-S12	JUNCTION PIT	Nov-20
SD-S13	OUTLET DETAILS - GRASS LINED CHANNEL / CREEK	Nov-20
WSUD 3-12	BIORETENTION BASIN	Nov-20
WSUD-18	VEGETATED SWALES - STEEP SITES	Oct-20

10 2. BRADFEILD CITY CENTRE - KERB DETAILS

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PROJECT

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SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

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10	15.08.23	ISSUED FOR CONSTRUCTION
9	22.05.23	ISSUED FOR CONSTRUCTION
8	14.04.23	ISSUED FOR CONSTRUCTION
7	23.01.23	ISSUED FOR DRAFT IFC
6	02.09.22	ISSUED FOR APPROVAL
5	19.05.22	TENDER ADDENDUM #1

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ISO A1 594mm x 841mm

NOTES:

1. PAVEMENT NOTES

1.1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
1.2. TABLE 2 LISTS THE ABBREVIATIONS USED ON THE PAVEMENTS DRAWINGS.

2. MATERIAL SPECIFICATION

2.1. MATERIAL SUPPLY AND CONSTRUCTION:

a. ALL ASPHALT TO CONFORM TO TfNSW R116.
b. PRIME, PRIMERSEALS AND SPRAY SEALS TO CONFORM TO TfNSW R106.
c. ALL EARTHWORKS TO BE IN ACCORDANCE WITH TfNSW R44, UNLESS NOTED OTHERWISE INDICATED ON THE DRAWINGS.
d. PERFORMED JOINT FILLER TO CONFORM TO TfNSW 3204.
e. PLAIN CONCRETE PAVEMENTS (PCP) TO CONFORM TO TfNSW R83.
f. CONCRETE FOR PAVEMENT TYPE MI & FP, THE CONCRETE MIX MUST CONFORM TO R54. THE MIX MUST HAVE A MINIMUM 40% SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCM) TO TfNSW 3211 ANNEXURE E3 OR A GLOBAL WARMING POTENTIAL LESS THAN 225 kg CO2 EQ BY MEASURE FROM AN ENVIRONMENTAL PRODUCT DECLARATION.
g. DGB20 & DGS40 (100% RECYCLED CRUSHED CONCRETE) TO CONFORM TO TfNSW 3051.
h. BEDDING AND JOINTING SAND SHALL CONFORM TO THE PARTICLE SIZE DISTRIBUTIONS OUTLINES IN THE TABLE 3 WHEN TESTED TO AS 1141.11.1.
i. SEGMENTAL PAVERS SHALL CONFORM TO THE REQUIREMENTS OUTLINED IN AS 4455.2 FOR TRAFFICKED PAVERS, COLLECTOR ROAD APPLICATION.
j. SEGMENTAL PAVERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CMAA PA01: CONCRETE SEGMENTAL PAVEMENTS, DETAILING GUIDE AND MANUFACTURER GUIDELINES.
k. BEDDING AND JOINTING SAND SHALL BE WELL-GRADED, CLEAN, WASHED. NON-PLASTIC, HARD SAND, WITH UNCOATED GRINS OF UNIFORM QUALITY AND FREE OF DELETERIOUS MATERIAL, SUCH AS SOLUABLE SALTS OR OTHER CONTAMINANTS WHICH MAY CAUSE EFFLORESCENE.

2.1. LOW CUTTER SEAL (C240 BINDER WITH MAXIMUM 2% CUTTER) SHALL BE APPLIED UNDERNEATH ASPHALT WEARING COURSE AGGREGATE SPREAD RATE SHALL BE BETWEEN 200 AND 250 m^2/m^3 AND RESIDUAL BINDER APPLICATION RATE SHALL BE TYPICALLY 0.80 L/m^2.

2.2. ALL IN SITU MODIFIED MATERIAL MUST CONFORM TO THE REQUIREMENT SPECIFIED IN R50. THE MATERIAL SHALL HAVE A MAXIMUM UCS OF 1.5 MPa WHEN TESTED IN ACCORDANCE WITH TFNSW T131 (USING 28 DAYS ACCELERATED CURING). LIME MUST BE USED AS A BINDER WITH THE MINIMUM CONTENT OF HYDRATED LIME TO BE NO LESS THAN THE LIME TO SATURATE THE WHOLE SOIL (LS) DETERMINED IN ACCORDANCE WITH TfNSW T144 PLUS AN ADDITIONAL 0.5%. NO LESS THAN 3% HYDRATED LIME IS TO BE USED. WHERE QUICKLIME IS USED, APPROPRIATELY CONVERT CONTENT OF HYDRATED LIME TO QUICKLIME. ADDITIONAL TESTING DURING CONSTRUCTION IS TO BE UNDERTAKEN TO VALIDATE DESIGN DOSAGE RATE.

2.3. ALL ASPHALT LAYERS SHALL BE WITHIN THE RANGE OF THE ALLOWABLE ASPHALT LAYER

TABLE 1 : ALLOWABLE ASPHALT LAYER THICKNESS

ASPHALT TYPE	ALLOWABLE ASPHALT LAYER THICKNESS FOR DIFFERENT NOMINAL ASPHALT SIZE (mm)				
	5	7	10	14	20
DENSE GRADED ASPHALT (DGA)	15 - 25	21 - 35	30 - 50	42 - 70	60 - 100

2.4. WHERE DGS40 HAS BEEN SPECIFIED IN DRAWINGS, IT MAY BE REPLACED WITH DGS20 OR DGB20 TO AID CONSTRUCTABILITY. WHERE DGS20 HAS BEEN SPECIFIED IN DRAWINGS, IT MAY BE REPLACED WITH DGB20 TO AID CONSTRUCTABILITY.

3. FOOTPATH AND MEDIANS

3.1 FOR PAVEMENT TYPES FP AND MI, THE SURFACE OF THE COMPACTED UNBOUND GRANULAR MATERIAL SHALL BE MOISTENED PRIOR TO PLACING THE CONCRETE TO MINIMISE MOISTURE LOSS.
3.2 FOOTPATH SHALL BE CONSTRUCTED IN ACCORDANCE WITH WESTERN SYDNEY DESIGN MANUAL DRAWING SD-R11.
04 3.3 REFER TO WESTERN SYDNEY ENGINEERING MANUAL SD-R04 FOR CONCRETE KERB DETAILS.
3.4 JOINT FILLER TO CONFORM TO TfNSW 3204 FOR PAVEMENT TYPE FP1.

4. FOUNDATION TREATMENT

4.1 FOUNDATION TREATMENT FOR PAVEMENT TYPE F1 - F8 AND MI:

a. EXCAVATE TO FOUNDATION LEVEL
b. PROVIDE TREATMENT TYPE C3-I TO TfNSW R44 OF THICKNESS INDICATED IN THE DESIGN DRAWINGS. IN-SITU STABILISATION (TfNSW R50) WITH MIN. 3% HYDRATED LIME TO ACHIEVE MINIMUM CBR 8%.
c. ACTUAL PERCENTAGE OF LIME SHALL BE CONFIRMED BY LABORATORY TESTING (T143 AND T117).

5. SPECIAL REQUIREMENTS

5.1 PAVEMENT TYPE FP1, FP2 AND MI SHALL BE CONSTRUCTED IN ACCORDANCE WITH WESTERN SYDNEY DESIGN MANUAL DRAWING No. SD-R11.
5.2 AC10 WARM MIX SHALL BE COMPACTED AT LOWER TEMPERATURES (APPROX. 20-30°C) LESS THAN STANDARD HOT MIXES. COMPACTION TEMPERATURES SHALL BE CONFIRMED AFTER FOLLOWING METHODOLOGY INCLUDED IN APPENDIX B OF AS2891.2.2.
04 5.3 PAVEMENT TYPE F5 DESIGNED FOR 10,000 ESA. PAVEMENT THICKNESS MAY BE REDUCED IF 5 YEAR TEMPORARY DESIGN TRAFFIC IS CONFIRMED.
5.4 CONSTRACTOR SHALL PROVIDE A JOINT LAYOUT IN ACCORDANCE WITH TfNSW MD.R83.CP THROUGH RFI PROCESS FOR APPROVAL BY A QUALIFIED PAVEMENT ENGINEER.
5.5 ISOLATION JOINTS SHALL BE PROVIDED BETWEEN DIFFERENT CONCRETE PAVEMENTS (FP1 AND FP2 INTERFACES), EXISTING CONCRETE PAVEMENT AND PAVEMENT CONSTRUSIONS (PITS AND CONCRETE STRUCTURES).
5.6 PAVEMENT TYPE F9 IS TO BE MILLED (105 mm) AND REINSTATED WITH 80 mm PAVERS AND 25 mm BEDDING SAND COURSE FOLLOWING THE CONCLUSION OF MAJOR BUILDING WORKS AND SUBSEQUENT REDUCTION/CONCLUSION OF CONSTRUCTION TRAFFIC WITH APPROVAL BY A QUALIFIED PAVEMENT ENGINEER.

TABLE 2 : ABBREVIATIONS

AC	ASPHALTIC CONCRETE
ALD	AVERAGE LEAST DIMENSION
AS	AUSTRALIAN STANDARD
CBR	CALIFORNIA BEARING RATIO
CO2 EQ	CARBON DIOXIDE EQUIVALENT
DGA	DENSE GRADED ASPHALT
DGB20	DENSELY GRADED BASE (20 mm AGGREGATE)
DGS40	DENSELY GRADED BASE (40 mm AGGREGATE)
PCP	PLAIN CONCRETE PAVEMENT
SCM	SUPPLEMENTARY CEMENTITIOUS MATERIAL
TfNSW	TRANSPORT FOR NEW SOUTH WALES
ES	EDGE STRIP
KG	KERB AND GUTTER
MK	MEDIAN KERB
KO	KERB ONLY

TABLE 3 : BEDDING AND JOINTING SAND PERMISSIBLE GRADING

AS SIEVE	BEDDING SAND % PASSING	JOINTING SAND % PASSING
9.52 mm	100	100
4.75 mm	95 - 100	100
2.36 mm	80 - 100	100
1.18 mm	50 - 85	90 - 100
600 µm	25 - 60	60 - 90
300 µm	10 - 30	30 - 60
150 µm	5 - 15	15 - 30
75 µm	0 - 10	5 - 10

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☐ YES

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PAVEMENT NOTES

SHEET NUMBER
60646285-SHT-00-1000-CI-0006

ISO A1 594mm x 841mm

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNO.
2. ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARDS AND SPECIFICATIONS REFERENCED.
3. CONTRACTOR TO VERIFY FINISHED SURFACE LEVELS PRIOR TO SETTING OUT SLAB LEVELS. IF SPECIFIED DIMENSIONS CANNOT BE MET THEN AECOM ENGINEER IS TO BE CONTACTED FOR REVIEW.
4. ANY DISCREPANCIES, OMISSIONS OR ERRORS SHALL BE REPORTED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
5. CONTRACTOR TO CONFIRM SITE INFRASTRUCTURE IS IN ACCORDANCE WITH UTILITY SURVEY PRIOR TO COMMENCING WORKS IF THERE IS ANY CLASH WITH ANY SERVICES INFORM AECOM FOR A DESIGN REVIEW.
6. THESE NOTES SHALL BE READ IN CONJUNCTION WITH ALL ENGINEERING DRAWINGS AND OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
7. CAST-IN-PLACE ELEMENTS FOR CULVERTS SHALL BE SETOUT ACCORDING TO THE CO-ORDINATES AND INVERT LEVELS.

FOUNDATION NOTES

1. PAD AND STRIP FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 150kPa OR AS SHOWN ON THE DRAWINGS, FOUNDED ON NATURAL RESIDUAL SOIL/ENGINEERED FILL U.N.O. THE CONTRACTOR SHALL ENGAGE A GEOTECHNICAL ENGINEER TO INSPECT AND VERIFY THAT THE GROUND AT EACH FOOTING IS CAPABLE OF CARRYING THIS PRESSURE.
2. ALL FOOTING EXCAVATIONS SHALL BE CLEANED OF LOOSE MATERIAL AND WATER PRIOR TO CASTING FOUNDATIONS.
3. FOOTINGS TO BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING OR DRYING OUT BY EXPOSURE. IF SOFTENING OR DRYING OF FOOTING BASE OCCURS DUE TO CONSTRUCTION DELAY, FOOTINGS ARE TO BE RE-EXCAVATED AND OVER EXCAVATION BACKFILLED WITH 10 MPa MASS CONCRETE FOLLOWING INSPECTION BY CONTRACT ADMINISTRATOR.
4. THE CONTRACTOR IS TO ALLOW FOR COST OF GEOTECHNICAL INSPECTIONS.
5. STRIP ALL TOPSOIL FROM THE CONSTRUCTION AREA. ALL STRIPPED TOPSOIL IS TO BE REMOVED FROM SITE UNLESS DIRECTED OTHERWISE BY THE CONTRACT ADMINISTRATOR.

EXCAVATION NOTES

1. ALL NECESSARY APPROVALS FROM AUTHORITIES AND ADJACENT PROPERTY OWNERS MUST BE OBTAINED BEFORE COMMENCEMENT OF WORK.
2. IDENTIFY AND VERIFY THE LOCATION OF EXISTING ADJACENT SERVICES AND CONFIRM DETAILS WITH THE ENGINEER PRIOR TO EXCAVATION.

FORMWORK NOTES

1. FORMWORK SHALL COMPLY WITH AS3610.
2. THE DESIGN, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK, FALSEWORK AND BACK-PROPPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL ENGAGE A STRUCTURAL ENGINEER TO RPEQ CERTIFY ALL FORMWORK, FALSEWORK AND BACKPROPPING DESIGN. THE CONTRACTOR SHALL SUBMIT PROPOSALS FOR FORMWORK, FALSEWORK AND BACK-PROPPING AND REMOVAL OF FORMWORK TO THE CONTRACT ADMINISTRATOR FOR COMMENT AT COMMENCEMENT OF JOB.
3. RESHORING IS NOT PERMITTED UNLESS PROPOSAL SUBMITTED AND APPROVED BY THE SUPERINTENDENT PRIOR TO CARRYING OUT WORKS.
4. STRIPPING OF FORMWORK SHALL COMPLY WITH SECTION 17.6 OF AS3600.
5. FORMED CONCRETE SURFACES SHALL HAVE FINISHES IN ACCORDANCE WITH AS3610 AS REFERENCED IN CONCRETE NOTES.
6. ALL HOLES LEFT BY FORM TIE BOLTS SHALL BE FILLED WITH MORTAR MATCHING THE SURFACE COLOUR OF THE FINISHED SURFACE.
7. FORMWORK MY BE STRIPPED AFTER 7 DAYS, BUT BEAMS AND SLABS MUST REMAIN PROPPED FOR 21 DAYS U.N.O.

DESIGN REFERENCES

- AS3600 CONCRETE DESIGN.
- AS1170 STRUCTURAL DESIGN ACTIONS.
- AS5100 BRIDGE DESIGN.
- AS1597 PRECAST REINFORCED CONCRETE BOX CULVERTS
- AS3725 DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES

DESIGN LOAD

- TRAFFIC LIVE LOAD APPLIED AS PER AS5100,2-2017.
- SURCHARGE LOADING ALLOWED FOR 20KPa CONSTRUCTION LOADING FOR CAST INSITU PIT AND SLAB

CAST-IN-PLACE CONCRETE NOTES

1. CONCRETE EXPOSURE CLASSIFICATION: B1.
2. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 40 MPa.
3. EDGES SHALL BE CHAMFERED 20 x 20 AND RE-ENTRANT ANGLES FILLETED 20 x 20 UNLESS NOTED OTHERWISE.
4. NCF DENOTES NO CHAMFER OR FILLET.
5. CONTRACTION JOINTS ARE TO BE PROVIDED AS SHOWN ON SHEET No. ST-0132.
6. BLINDING AND MASS CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPLRESSIVE STRENGTH OF 20MPa.
7. CJ DENOTES CONSTRUCTION JOINT.
8. SOP DENOTES SET OUT POINT.
9. ALL CONCRETE WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, AS2870 AND THE SPECIFICATION.
10. CONCRETE QUALITY, AND REQUIRED PROPERTIES OF CONCRETE SHALL BE IN ACCORDANCE TO AS1379.
11. SURFACE FINISH, FORMWORK IS TO BE IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATIONS
12. CONCRETE REQUIREMENTS AS SHOWN IN TABLE BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS. NO "BRECCIA" TYPE AGGREGATE IS TO BE USED.

MEMBER LOCATION	EXPOSURE CLASSIFICATION	CONCRETE STRENGTH f'c (MPa) AT 28 DAYS	CONCRETE CLASS	SLUMP AT SITE +/- 15mm	Nom. MAX. AGGREGATE SIZE (mm)	MAX. 56 DAY SHRINKAGE x10-6	REQUIRED COVER (mm)
WALLS/SLABS	B1	40	N	80	10	-	40

13. NORMAL CLASS CONCRETE SHALL HAVE CEMENT OF TYPE GENERAL PURPOSE BLENDED CEMENT(GB).
14. THE CONTRACTOR IS TO SEEK APPROVAL FROM THE STRUCTURAL ENGINEER IN WRITING IF ANY ADMIXTURES TO BE USED IN THE CONCRETE MIX. CALCIUM CHLORIDE WILL NOT BE PERMITTED AND SHALL NOT BE USED UNDER ANY CIRCUMSTANCES.
15. ALL CONCRETE SHALL BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS1379.
16. MECHANICALLY VIBRATE CONCRETE IN THE FORM TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION OF THE CONCRETE.
17. UNLESS SHOWN ON THE DRAWINGS, THE LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR REVIEW.
18. EXACT SIZE AND LOCATION OF PENETRATIONS ARE TO BE OBTAINED FROM WORKSHOP DRAWINGS PRIOR TO SCHEDULING OF REINFORCEMENT, AND ARE NOT TO EXCEED DIMENSIONS WHERE SHOWN ON THE STRUCTURAL DRAWINGS. LIASE WITH ALL TRADES FOR FINAL PENETRATION SETOUT.
19. DO NOT PLACE CONDUITS, PIPES AND THE LIKE WITHIN COVER CONCRETE. CONDUITS CAST INTO CONCRETE MEMBERS SHALL BE SPACED AT MAXIMUM DISTANCE POSSIBLE AND UNDER NO CIRCUMSTANCES CLOSER THAN A CLEAR SPACING OF TWICE THE LARGER CONDUIT DIAMETER FROM PARALLEL REINFORCEMENT OR ANY OTHER CONDUIT.
20. SLURRY USED TO LUBRICATE CONCRETE PUMP LINES IS NOT TO BE USED IN ANY STRUCTURAL MEMBERS.
21. CONCRETE SIZES AS DRAWN ARE MINIMUM AND DO NOT INCLUDE APPLIED FINISHES.
22. UNLESS NOTED OTHERWISE, ALL SLABS CAST ON GROUND REQUIRE 50mm THICK COMPACTED FREE DRAINING SAND BEDDING WITH A 0.2mm POLYTHENE MEMBRANE.
23. THE FACE OF ALL CONCRETE WHICH HAS REINFORCEMENT PROJECTING FROM IT AND AGAINST WHICH NEW CONCRETE IS TO BE CAST, IS TO BE THOROUGHLY MECHANICALLY SCABBLED, FULLY EXPOSING THE AGGREGATE MATRIX CLEANED OF DUST AND LOOSE CONCRETE.

REINFORCEMENT

1. ALL REINFORCEMENT BARS SHALL BE IN ACCORDANCE WITH AS/NZS 4671.
2. COGS, HOOKS, SPLICES AND PIN DIAMETERS SHALL BE IN ACCORDANCE WITH AS3600.
3. REINFORCEMENT MAY BE DISPLACED SLIGHTLY WHERE NECESSARY TO CLEAR STEEL DOWELS, ANCHOR BOLTS, DRAINAGE PIPES, FORMED HOLES AND RECESSES.
4. EXCEPT FOR REINFORCING MESH, ALL BARS SHALL BE GRADE D500N DEFORMED RIBBED BAR UNLESS NOTED OTHERWISE.
5. LAPS NOT SHOWN ON THE DRAWINGS SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF BARS ARE LAPPED IN ANY ONE CROSS SECTION.
6. ALL LAPPED PORTIONS OF BARS SHALL BE IN CONTACT.
7. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN IN THE DRAWINGS. LAP LENGTH SHALL COMPLY WITH AS3600. REINFORCEMENT SHALL NOT BE SPLICED EXCEPT WHERE SHOWN IN THE DRAWINGS. IF SPLICES ARE NOT INDICATED IN THE DRAWINGS, SUITABLE LOCATIONS SHALL BE PROPOSED FOR WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR.
   THE SPLICED LENGTH OF BARS IN SLABS, BEAMS AND WALLS SHALL BE AS GIVEN IN THE FOLLOWING TABLE, EXCEPT WHERE OTHER DIMENSIONS ARE STATED ON THE ACTUAL DETAIL:

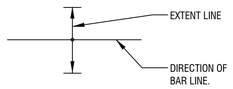
TYPE OF MEMBER	TENSILE LAP LENGTH (mm) FOR GRADE 500N DEFORMED BARS.							
	N10	N12	N16	N20	N24	N28	N32	N36
SLAB OR WALL (WITH 300mm OR LESS DEPTH OF CONCRETE BELOW THE BAR)	350	550	850	1100	1450	1750	2150	2200
OTHER MAIN BARS	450	425	625	850	1100	1350	1650	2800

EMBEDMENT LENGTHS FOR STARTER BARS AND SPLICE LENGTHS FOR COLUMN BARS SHALL BE AS GIVEN IN THE FOLLOWING TABLE, EXCEPT WHERE OTHER DIMENSIONS ARE STATED ON THE ACTUAL DETAIL. THE DIMENSIONS IN THE TABLE ALSO INDICATE OVERALL ANCHORAGE (DEVELOPMENT) LENGTHS FOR STARTER / DOWEL BARS. ANY COGS USED SHALL BE DETAILED AS PER AS3600.

BAR SIZE (mm)	SPLICE LENGTH (mm)
N12	500
N16	650
N20	800
N24	1000
N28	1150
N32	1300
N36	1450

BARS IN ELEMENTS UNDER AXIAL TENSION SHALL BE CONNECTED USING MECHANICAL SPLICES DEVELOPING FULL BAR TENSIONS.

8. REINFORCEMENT SHALL BE BENT COLD IN ACCORDANCE WITH AS3600 EXCEPT WHERE APPROVED BY THE CONTRACT ADMINISTRATOR. NO REBENDING SHALL BE PERMITTED UNLESS APPROVED BY THE CONTRACT ADMINISTRATOR.
9. NOMINAL COVER TO REINFORCEMENT SHALL BE 30 mm WHERE STANDARD FORMWORK IS USED AND 25 mm FOR PRECAST ELEMENT WHERE RIGID FORMWORK IS USED.
10. ALL STEEL REINFORCEMENT IS TO BE MANUFACTURED FROM 100% RECYCLED STEEL.
11. REINFORCEMENT DIMENSIONS SHALL NOT BE SCALED.
12. EXTENT OF BARS AND MESH SHOWN THUS:



13. ALL REINFORCEMENT IS TO BE ACCURATELY POSITIONED, ADEQUATELY SUPPORTED, AND THEN INSPECTED BY THE CONTRACT ADMINISTRATOR BEFORE ANY CONCRETE IS PLACED.
14. WELDING OF REINFORCEMENT INCLUDING TACK-WELDING FOR FIXING PURPOSES SHALL COMPLY WITH AS3600 AND AS1554.3. WELDING IS PERMITTED ONLY WHERE SHOWN IN THE DRAWINGS OR WHERE OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR.
15. FIX 2-N16 TRIMMER BARS AROUND OPENINGS IN EACH (TOP/BOTTOM) FACE OF MEMBER AND EXTENDING 1000mm BEYOND THEIR CROSS-OVER POINT.
16. REINFORCEMENT SHALL NOT BE CUT, BENT OR HEATED ON SITE WITHOUT THE CONTRACT ADMINISTRATOR'S PRIOR APPROVAL. DO NOT CUT REINFORCEMENT ON SITE TO CLEAR PENETRATIONS. DISPLACE REINFORCEMENT SLIGHTLY AS NECESSARY. MAINTAIN COVER DURING POUR.
17. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON PLASTIC OR CONCRETE CHAIRS UNLESS NOTED OTHERWISE MAXIMUM CENTRES OF SUPPORTING CHAIRS SHALL BE 600mm FOR FABRIC, 600mm FOR BARS UP TO 12mm DIAMETER, 900mm FOR BARS 16mm AND GREATER. REINFORCEMENT SHALL BE SECURELY TIED WITH GALVANISED WIRE TIES AND ALL TIE ENDS SHALL BE TURNED INTO THE MEMBER CLEAR OF THE COVER ZONE.
18. REFER TO THE CONCRETE NOTES FOR THE COVER TO REINFORCEMENT NEAREST THE CONCRETE SURFACE. UNLESS NOTED OTHERWISE ON DRAWINGS.
19. THE REQUIRED COVER SHALL BE MAINTAINED TO ALL PIPES, CONDUITS, REGLETS, DRIP GROOVES ETC.

REINFORCED CONCRETE

RC1. ALL WORKMANSHIP MATERIALS, SAMPLING, TESTING AND TOLERANCES SHALL BE IN ACCORDANCE WITH AS3600, AS3610 AND TfNSW QA SPEC B80.
RC2. CONCRETE EXPOSURE CLASSIFICATION SHALL BE B2 TO TfNSW B80.
RC3. CONCRETE FOR USE IN THE WORKS SHALL BE STANDARD STRENGTH GRADE N40 (UNLESS OTHERWISE STATED) IN ACCORDANCE WITH THE REQUIREMENTS OF AS1379 AND AS3600. THE CHARACTERISTIC STRENGTH OF THE CONCRETE AT 28 DAYS SHALL BE NOT LESS THAN 40MPa (UNLESS OTHERWISE STATED).
RC4. THE SLUMP OF THE CONCRETE AT THE POINT OF DISCHARGE ON SITE SHALL BE 80mm+-15mm FOR CONCRETE TO BE PLACED MANUALLY.
RC5. MAXIMUM NOMINAL SIZE OF AGGREGATE SHALL BE 20mm. AGGREGATE USED IN THE MANUFACTURE OF CONCRETE SHALL COMPLY WITH AS2758.1
RC6. THE CONTRACTOR SHALL SUBMIT A NOMINATED MIX DESIGN FOR THE CONCRETE COMPLYING WITH THE REQUIREMENTS OF RMS B80 TO THE CONTRACT ADMINISTRATOR FOR APPROVAL AT LEAST 7 DAYS PRIOR TO INITIAL PRODUCTION OF THE CONCRETE. THIS SUBMISSION SHALL CONTAIN A SIGNED STATEMENT FROM THE CONTRACTOR CERTIFYING THAT THE CONCRETE, CONSTITUENT MATERIALS AND CURING COMPOUNDS COMPLY WITH THE SPECIFIED REQUIREMENTS. THIS STATEMENT MUST BE SUPPORTED BY THE MOST RECENT PRODUCTION ASSESSMENT REPORT OR BY APPROPRIATE TEST RESULTS. THE APPROVAL OF THE NOMINATED CONCRETE MIX SHALL CONSTITUTE A HOLD POINT ON PLACEMENT OF CONCRETE IN THE WORKS.
RC7. CONCRETE SHALL BE SOURCED FROM A MANUFACTURING PLANT OPERATING UNDER AN ISO9001 CERTIFIED QUALITY MANAGEMENT SYSTEM.
RC8. REINFORCED CONCRETE SHALL NOT BE PLACED EITHER DURING RAIN OR WHEN THE AIR TEMPERATURE IN THE SHADE IS BELOW 5°C OR ABOVE 38°C.
RC9. REINFORCED CONCRETE SHALL NOT BE PLACED DIRECTLY AGAINST EXCAVATED SURFACES EXCEPT WHERE PERMITTED BY THE SUPERINTENDENT. A BLINDING LAYER OF 50mm MINIMUM THICKNESS N20 CONCRETE SHALL BE PLACED ON FLOOR OF ALL EXCAVATIONS AND FORMWORK SHALL BE ERECTED SUCH THAT FRESH CONCRETE IS NOT PLACED DIRECTLY AGAINST THE SIDES OF THE EXCAVATION.
RC10. FORMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AS3610 AND PLYWOOD ASSOCIATION OF AUSTRALIA FORMWORK DESIGN HANDBOOK.
RC11. THE SURFACE FINISH OF ALL FORMED CONCRETE SURFACES SHALL BE CLASS 3 AS DEFINED IN AS3160.
RC12. ALL UNFORMED CONCRETE SURFACES SHALL BE FINISHED TO ACHIEVE THE SPECIFIED DIMENSIONS AND GRADE AND THE SPECIFIED COVER FROM THE SURFACE TO REINFORCEMENT AND EMBEDMENTS.
RC13. UNFORMED EXTERNAL CONCRETE SURFACES SHALL BE BROOM FINISHED TO ACHIEVE A NON-SLIP TEXTURE DEPTH NOT LESS THAN 0.9mm. UNFORMED INTERNAL CONCRETE SURFACES SHALL BE STEEL TROWEL FINISHED.
CONCRETE SHALL BE PLACED, COMPACTED, FINISHED AND CURED SO AS TO:
- PREVENT SEGREGATION OR LOSS OF MATERIAL.
- PREVENT PREMATURE STIFFENING
- PREVENT DISPLACEMENT OF REINFORCEMENT, FITMENTS OR EMBEDMENTS.
- PRODUCE A DENSE HOMOGENOUS PRODUCT WHICH IS MONOLITHIC BETWEEN PLANNED JOINTS AND/OR THE EXTREMITIES OF MEMBERS.
- ACHIEVE THE SPECIFIED FINISHES
- PREVENT PLASTIC AND DRYING SHRINKAGE CRACKS AND PREVENT THERMAL CRACKING

RC14. FORMWORK STRIPPING TIMES SHALL BE IN ACCORDANCE WITH THE MINIMUM TIMES SPECIFIED IN AS3610. IN ADDITION THE MINIMUM TIME SHALL NOT BE LESS THAN 24 HOURS.
RC15. CURING OF THE CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TfNSW QA SPEC B80.
RC16. LOCATIONS OF CONSTRUCTION JOINTS SHALL BE PROPOSED BY THE CONTRACTOR AND SUBJECT TO THE APPROVAL OF THE CONTRACT ADMINISTRATOR.
RC17. THE SURFACE OF CONCRETE AT CONSTRUCTION JOINTS SHALL BE DELIBERATELY ROUGHENED TO A PRONOUNCED SURFACE PROFILE WITH A SURFACE ROUGHNESS NOT LESS THAN 6mm. LOOSE AGGREGATE AND LAITANCE SHALL BE REMOVED. THE SURFACE OF THE CONSTRUCTION JOINT SHALL BE SATURATED SURFACE DRY STATE AT THE COMMENCEMENT OF POURING ADJOINING CONCRETE.

STEEL REINFORCEMENT

SR1. STEEL REINFORCEMENT SHALL BE AS FOLLOWS:
- R - PLAIN BARS GRADE 250R TO AS 1032
- N - DEFORMED BARS GRADE D500N TO AS/NZS4671
- W - HARD DRAWN WIRE GRADE 450W TO AS1303
- SL - WELDED WIRE FABRIC (MESH) GRADE D500L TO AS/NZS4671

SR2. DEFORMED BAR REINFORCEMENT IS DESIGNATED ON THE DRAWINGS AS FOLLOWS:

12N16-200 N.F.

NO. OF
BAR GRADE
BAR DIAMETER
BAR SPACING
LOCATION OF REFERENCE

LOCATION: T - TOP FACE
B - BOTTOM FACE
NF - NEAR FACE
FF - FAR FACE
EF - EACH FACE
EW - EACH WAY

SR3. STEEL FOR REINFORCEMENT SHALL BE FREE FROM LOOSE OR THICK RUST, LOOSE MILL SCALE, GREASE, PAINT, OIL, DIRT OR ANY OTHER COATING DETRIMENTAL TO THE BOND BETWEEN THE STEEL AND THE CONCRETE, AND/OR DETRIMENTAL TO THE DURABILITY OF THE CONCRETE.
SR4. REINFORCEMENT SHALL BE CUT, BENT OR OTHERWISE FABRICATED TO DIMENSIONAL TOLERANCES IN ACCORDANCE WITH AS3600. REINFORCEMENT SHALL NOT BE HOT BENT OR RE-BENT. BARS PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT UNLESS DIRECTED BY THE SUPERINTENDENT.
SR5. CLEAR COVER TO THE REINFORCEMENT SHALL BE MINIMUM 55mm UNLESS NOTED OTHERWISE.
SR6. REINFORCEMENT SHALL BE SUPPORTED USING EITHER PLASTIC OR CONCRETE BAR CHAIRS.
SR7. WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS1554.3
SR8. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS AND THEREFORE DOES NOT DEPICT THE EXACT POSITION OF THE BARS.
SR9. REINFORCEMENT ANCHORAGE AND SPLICE LENGTHS SHALL COMPLY WITH AS5100 AND SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

BAR SIZE	N12	N16	N20	N24
ALL BARS	450	550	700	850

SR10. THE POSITIONING AND FIXING OF REINFORCEMENT IN EACH SECTION OF WORK SHALL BE INSPECTED AND APPROVED BY THE SUPERINTENDENT. APPROVAL OF THE TIED REINFORCEMENT SHALL CONSTITUTE A HOLD POINT ON THE PLACEMENT OF CONCRETE IN THAT SECTION OF THE WORKS.

This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001-2000.

AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT
AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT
NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION
ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	14.04.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER
60646285

SHEET TITLE
STRUCTURAL NOTES

SHEET NUMBER
60646285-SHT-00-1000-CI-0008

Last saved by: SHION.WATAKABE/(2023-08-15) Last Plotted: 2023-11-16
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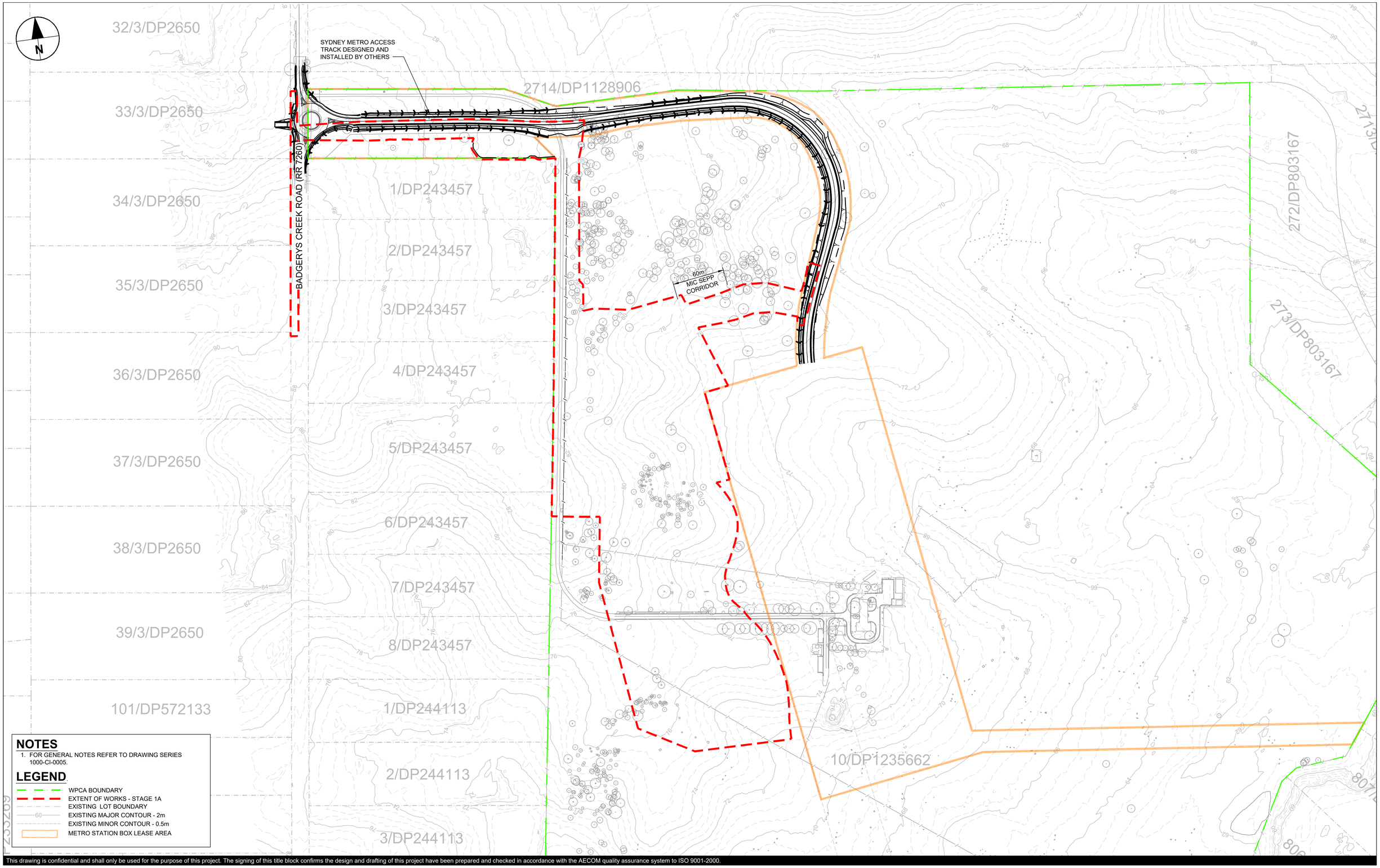

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- EXISTING LOT BOUNDARY
- 60 EXISTING MAJOR CONTOUR - 2m
- EXISTING MINOR CONTOUR - 0.5m
- METRO STATION BOX LEASE AREA

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 50 100 m
1:2000

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC
5	02.09.22	ISSUED FOR APPROVAL
4	29.04.22	ISSUED FOR TENDER
3	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

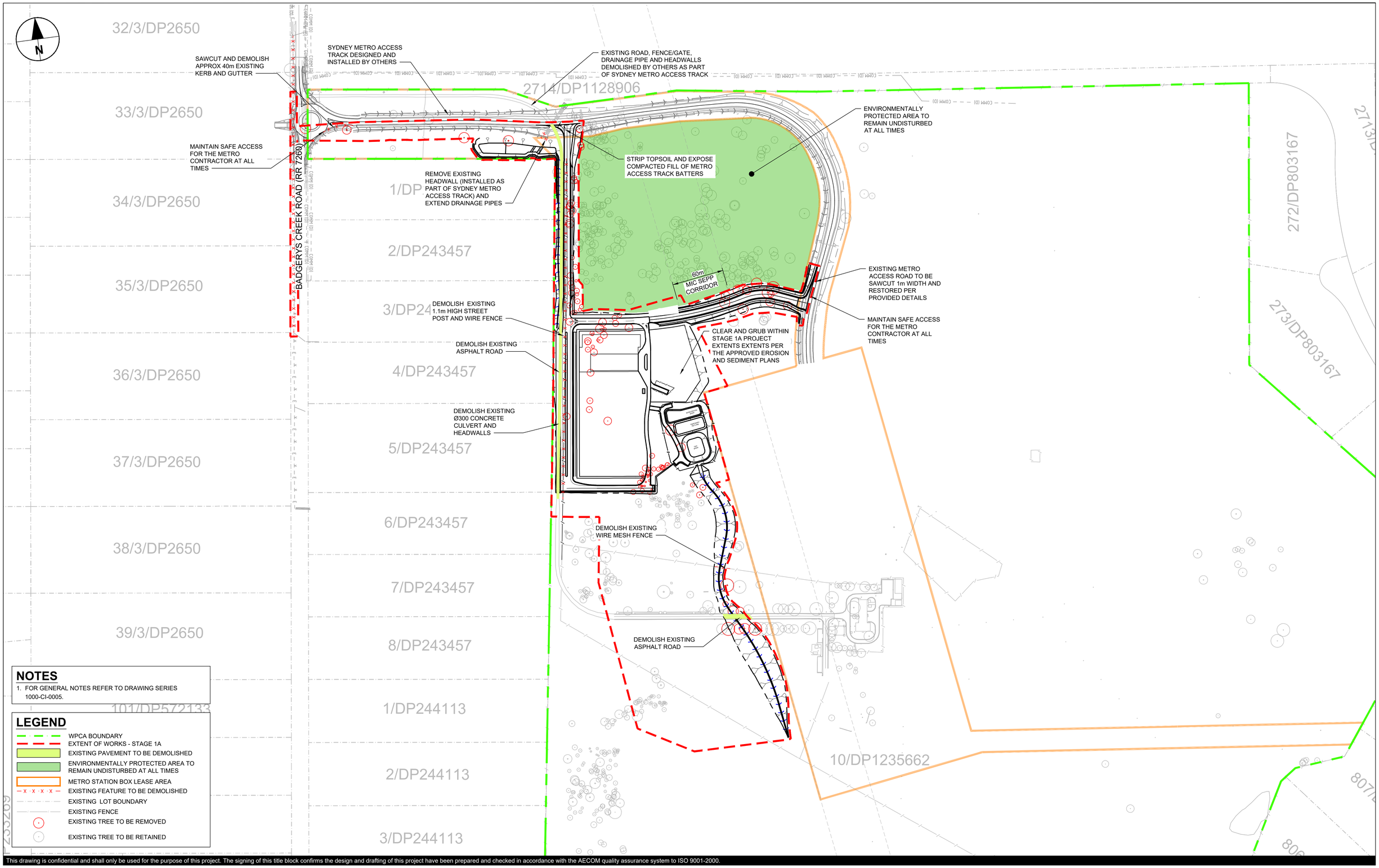
SHEET TITLE

EXISTING CONDITIONS AND TOPOGRAPHIC OVERALL

SHEET NUMBER

60646285-SHT-00-1000-CI-0015

ISO A1 594mm x 841mm



NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- EXISTING PAVEMENT TO BE DEMOLISHED
- ENVIRONMENTALLY PROTECTED AREA TO REMAIN UNDISTURBED AT ALL TIMES
- METRO STATION BOX LEASE AREA
- EXISTING FEATURE TO BE DEMOLISHED
- EXISTING LOT BOUNDARY
- EXISTING FENCE
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE RETAINED

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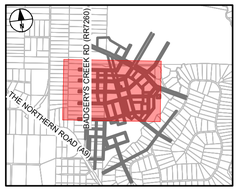
PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN



SCALE BAR

0 50 100 m
1:2000

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	22.05.23	ISSUED FOR CONSTRUCTION
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5	02.09.22	ISSUED FOR APPROVAL
4	29.04.22	ISSUED FOR TENDER
3	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

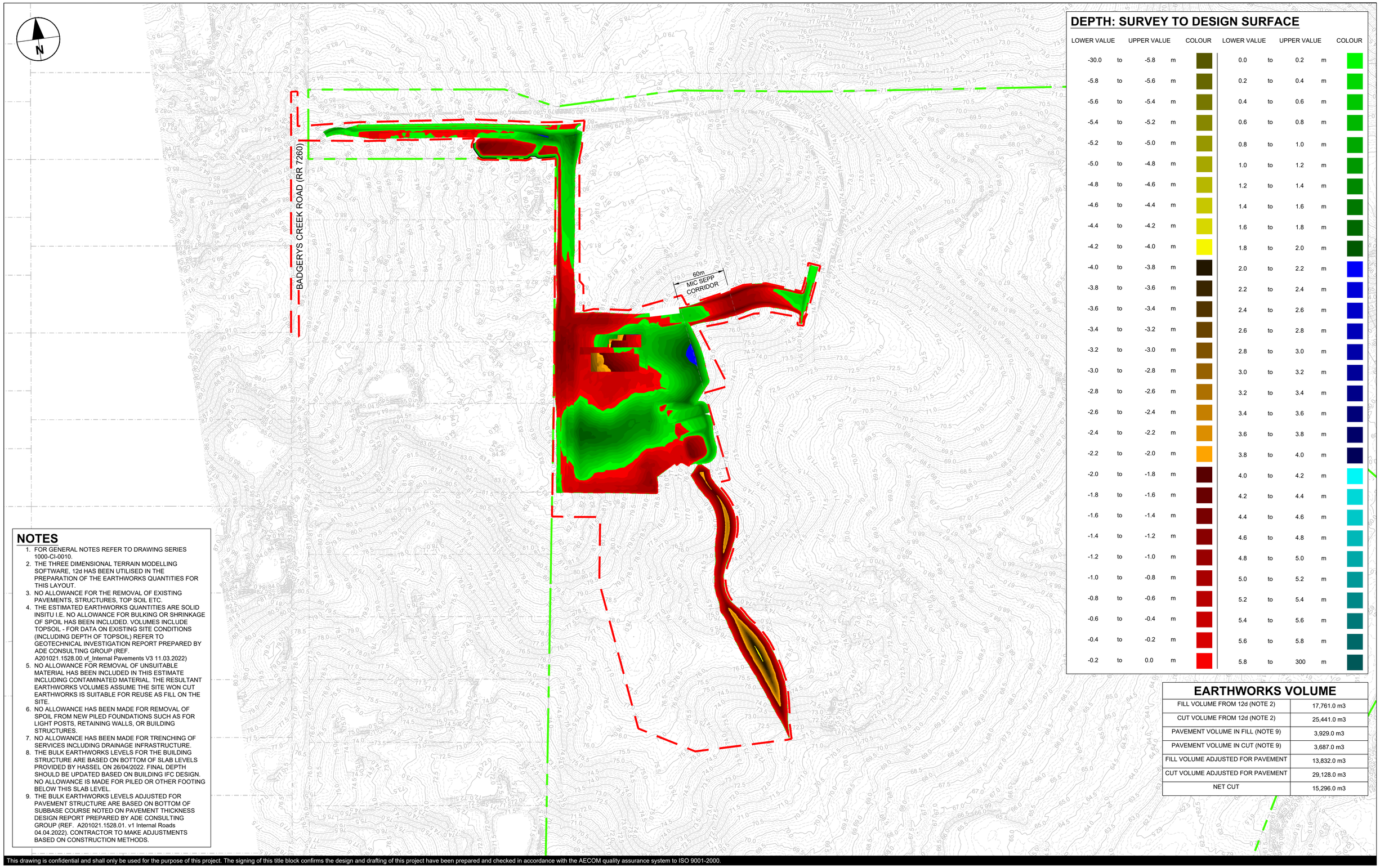
SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

60646285-SHT-00-1000-CI-0051

ISO A1 594mm x 841mm



DEPTH: SURVEY TO DESIGN SURFACE

LOWER VALUE		UPPER VALUE		COLOUR	LOWER VALUE		UPPER VALUE		COLOUR
-30.0	to	-5.8	m		0.0	to	0.2	m	
-5.8	to	-5.6	m		0.2	to	0.4	m	
-5.6	to	-5.4	m		0.4	to	0.6	m	
-5.4	to	-5.2	m		0.6	to	0.8	m	
-5.2	to	-5.0	m		0.8	to	1.0	m	
-5.0	to	-4.8	m		1.0	to	1.2	m	
-4.8	to	-4.6	m		1.2	to	1.4	m	
-4.6	to	-4.4	m		1.4	to	1.6	m	
-4.4	to	-4.2	m		1.6	to	1.8	m	
-4.2	to	-4.0	m		1.8	to	2.0	m	
-4.0	to	-3.8	m		2.0	to	2.2	m	
-3.8	to	-3.6	m		2.2	to	2.4	m	
-3.6	to	-3.4	m		2.4	to	2.6	m	
-3.4	to	-3.2	m		2.6	to	2.8	m	
-3.2	to	-3.0	m		2.8	to	3.0	m	
-3.0	to	-2.8	m		3.0	to	3.2	m	
-2.8	to	-2.6	m		3.2	to	3.4	m	
-2.6	to	-2.4	m		3.4	to	3.6	m	
-2.4	to	-2.2	m		3.6	to	3.8	m	
-2.2	to	-2.0	m		3.8	to	4.0	m	
-2.0	to	-1.8	m		4.0	to	4.2	m	
-1.8	to	-1.6	m		4.2	to	4.4	m	
-1.6	to	-1.4	m		4.4	to	4.6	m	
-1.4	to	-1.2	m		4.6	to	4.8	m	
-1.2	to	-1.0	m		4.8	to	5.0	m	
-1.0	to	-0.8	m		5.0	to	5.2	m	
-0.8	to	-0.6	m		5.2	to	5.4	m	
-0.6	to	-0.4	m		5.4	to	5.6	m	
-0.4	to	-0.2	m		5.6	to	5.8	m	
-0.2	to	0.0	m		5.8	to	300	m	

EARTHWORKS VOLUME

FILL VOLUME FROM 12d (NOTE 2)	17,761.0 m3
CUT VOLUME FROM 12d (NOTE 2)	25,441.0 m3
PAVEMENT VOLUME IN FILL (NOTE 9)	3,929.0 m3
PAVEMENT VOLUME IN CUT (NOTE 9)	3,687.0 m3
FILL VOLUME ADJUSTED FOR PAVEMENT	13,832.0 m3
CUT VOLUME ADJUSTED FOR PAVEMENT	29,128.0 m3
NET CUT	15,296.0 m3

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0010.
2. THE THREE DIMENSIONAL TERRAIN MODELLING SOFTWARE, 12d HAS BEEN UTILISED IN THE PREPARATION OF THE EARTHWORKS QUANTITIES FOR THIS LAYOUT.
3. NO ALLOWANCE FOR THE REMOVAL OF EXISTING PAVEMENTS, STRUCTURES, TOP SOIL ETC.
4. THE ESTIMATED EARTHWORKS QUANTITIES ARE SOLID INSITU I.E. NO ALLOWANCE FOR BULKING OR SHRINKAGE OF SPOIL HAS BEEN INCLUDED. VOLUMES INCLUDE TOPSOIL - FOR DATA ON EXISTING SITE CONDITIONS (INCLUDING DEPTH OF TOPSOIL) REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY ADE CONSULTING GROUP (REF. A201021.1528.00.vf_Internal Pavements V3 11.03.2022)
5. NO ALLOWANCE FOR REMOVAL OF UNSUITABLE MATERIAL HAS BEEN INCLUDED IN THIS ESTIMATE INCLUDING CONTAMINATED MATERIAL. THE RESULTANT EARTHWORKS VOLUMES ASSUME THE SITE WON CUT EARTHWORKS IS SUITABLE FOR REUSE AS FILL ON THE SITE.
6. NO ALLOWANCE HAS BEEN MADE FOR REMOVAL OF SPOIL FROM NEW PILED FOUNDATIONS SUCH AS FOR LIGHT POSTS, RETAINING WALLS, OR BUILDING STRUCTURES.
7. NO ALLOWANCE HAS BEEN MADE FOR TRENCHING OF SERVICES INCLUDING DRAINAGE INFRASTRUCTURE.
8. THE BULK EARTHWORKS LEVELS FOR THE BUILDING STRUCTURE ARE BASED ON BOTTOM OF SLAB LEVELS PROVIDED BY HASSEL ON 26/04/2022. FINAL DEPTH SHOULD BE UPDATED BASED ON BUILDING IFC DESIGN. NO ALLOWANCE IS MADE FOR PILED OR OTHER FOOTING BELOW THIS SLAB LEVEL.
9. THE BULK EARTHWORKS LEVELS ADJUSTED FOR PAVEMENT STRUCTURE ARE BASED ON BOTTOM OF SUBBASE COURSE NOTED ON PAVEMENT THICKNESS DESIGN REPORT PREPARED BY ADE CONSULTING GROUP (REF. A201021.1528.01. v1 Internal Roads 04.04.2022). CONTRACTOR TO MAKE ADJUSTMENTS BASED ON CONSTRUCTION METHODS.

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AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 50 100 m
1:2000

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
9	22.05.23	ISSUED FOR CONSTRUCTION
8	14.04.23	ISSUED FOR CONSTRUCTION
7	23.01.23	ISSUED FOR DRAFT IFC
6	02.09.22	ISSUED FOR APPROVAL
5	19.05.22	TENDER ADDENDUM #1
4	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

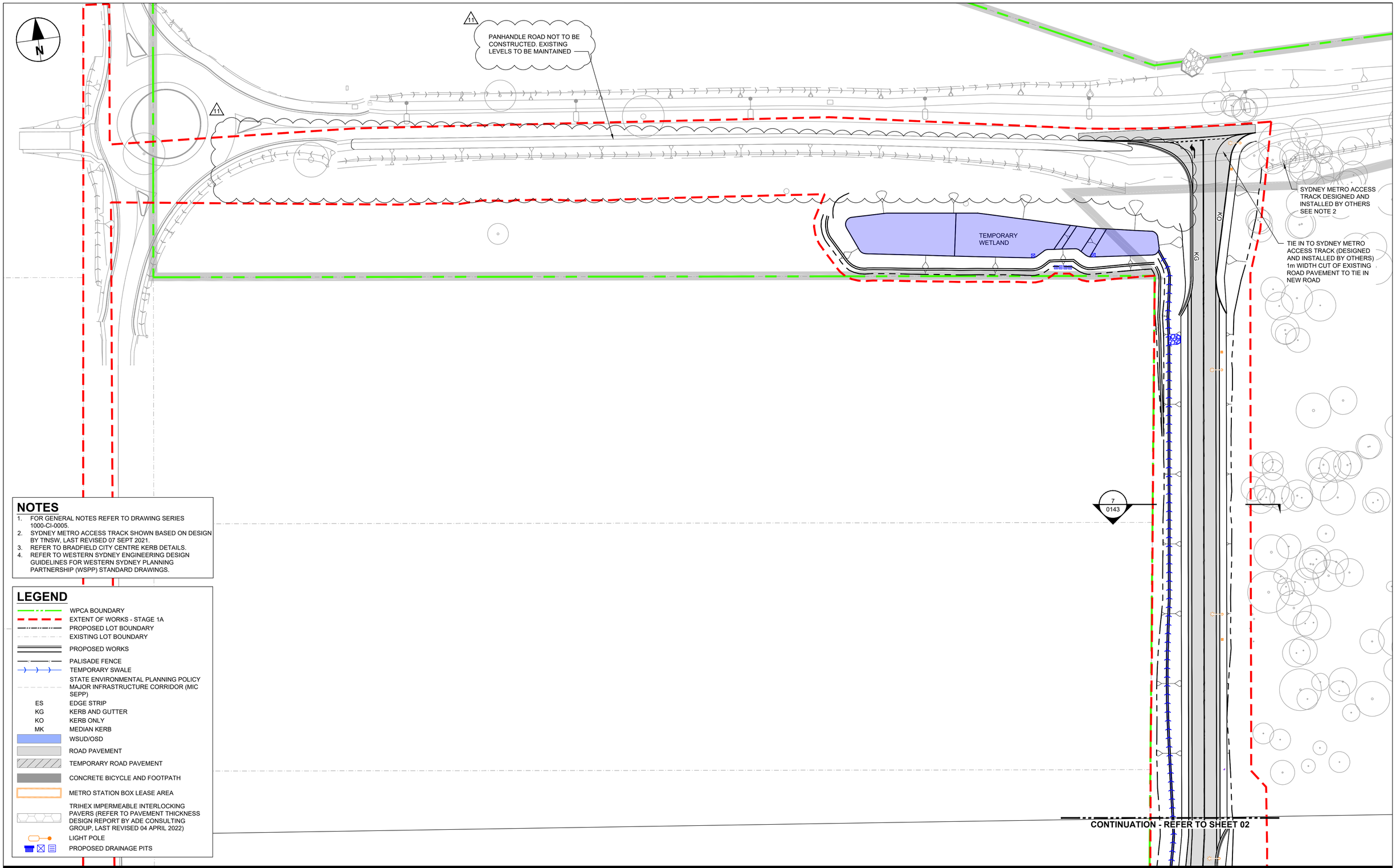
SHEET TITLE

BULK EARTHWORKS PLAN
SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-CI-0061

ISO A1 594mm x 841mm



NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.
2. SYDNEY METRO ACCESS TRACK SHOWN BASED ON DESIGN BY TfNSW, LAST REVISED 07 SEPT 2021.
3. REFER TO BRADFIELD CITY CENTRE KERB DETAILS.
4. REFER TO WESTERN SYDNEY ENGINEERING DESIGN GUIDELINES FOR WESTERN SYDNEY PLANNING PARTNERSHIP (WSPP) STANDARD DRAWINGS.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED WORKS
- PALISADE FENCE
- TEMPORARY SWALE
- STATE ENVIRONMENTAL PLANNING POLICY MAJOR INFRASTRUCTURE CORRIDOR (MIC SEPP)
- ES — EDGE STRIP
- KG — KERB AND GUTTER
- KO — KERB ONLY
- MK — MEDIAN KERB
- WSUD/OSD
- ROAD PAVEMENT
- TEMPORARY ROAD PAVEMENT
- CONCRETE BICYCLE AND FOOTPATH
- METRO STATION BOX LEASE AREA
- TRIHEX IMPERMEABLE INTERLOCKING PAVERS (REFER TO PAVEMENT THICKNESS DESIGN REPORT BY ADE CONSULTING GROUP, LAST REVISED 04 APRIL 2022)
- LIGHT POLE
- PROPOSED DRAINAGE PITS

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
11	08.11.23	FOR APPROVAL
10	15.08.23	ISSUED FOR CONSTRUCTION
9	22.05.23	ISSUED FOR CONSTRUCTION
8	14.04.23	ISSUED FOR CONSTRUCTION
7	23.01.23	ISSUED FOR DRAFT IFC
6	02.09.22	ISSUED FOR APPROVAL

PROJECT NUMBER

60646285

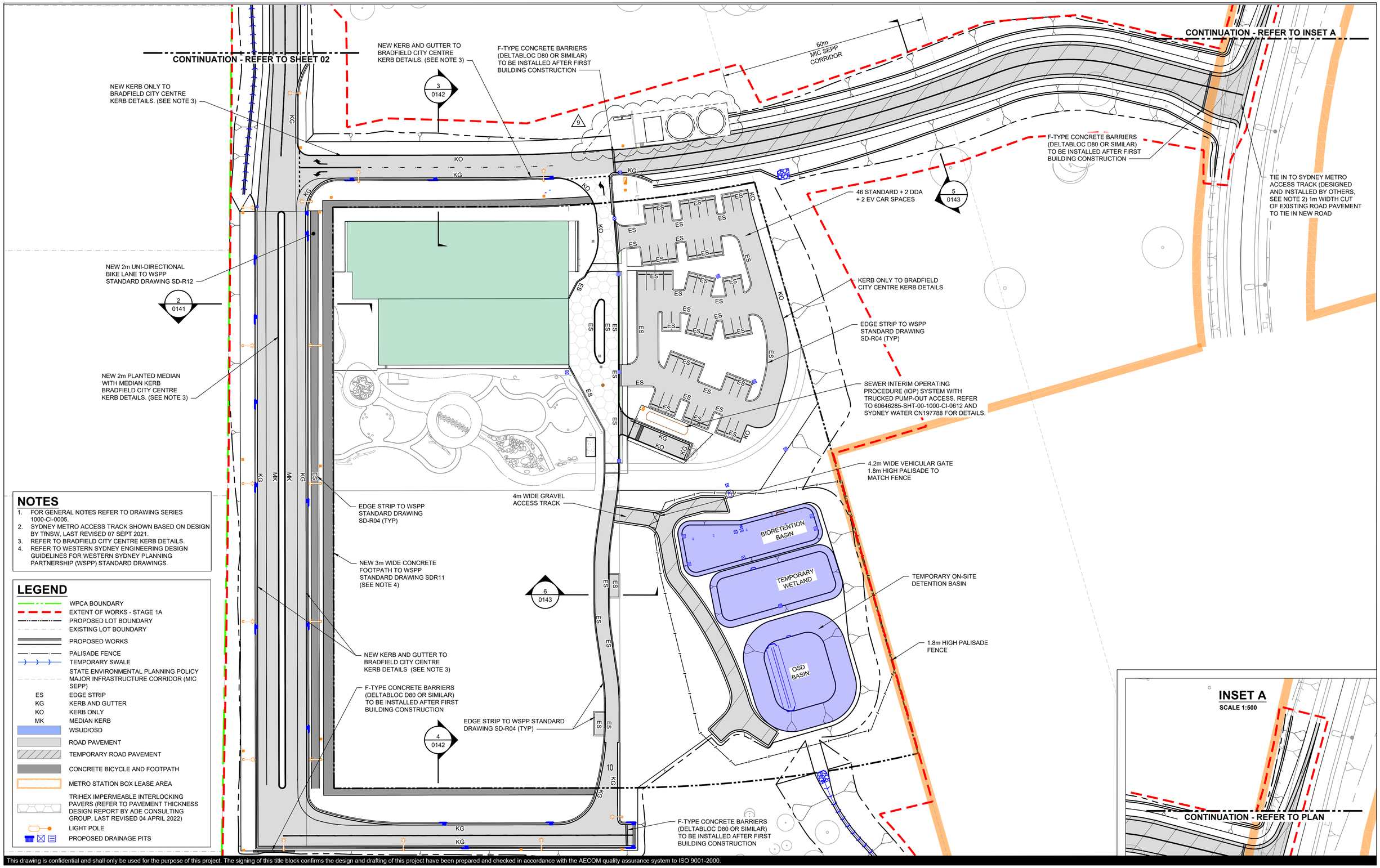
SHEET TITLE

GENERAL ARRANGEMENT PLAN SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-CI-0121

ISO A1 594mm x 841mm



NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.
2. SYDNEY METRO ACCESS TRACK SHOWN BASED ON DESIGN BY TfNSW, LAST REVISED 07 SEPT 2021.
3. REFER TO BRADFIELD CITY CENTRE KERB DETAILS.
4. REFER TO WESTERN SYDNEY ENGINEERING DESIGN GUIDELINES FOR WESTERN SYDNEY PLANNING PARTNERSHIP (WSPP) STANDARD DRAWINGS.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED WORKS
- PALISADE FENCE
- TEMPORARY SWALE
- STATE ENVIRONMENTAL PLANNING POLICY MAJOR INFRASTRUCTURE CORRIDOR (MIC SEPP)
- ES — EDGE STRIP
- KG — KERB AND GUTTER
- KO — KERB ONLY
- MK — MEDIAN KERB
- WSUD/OSD
- ROAD PAVEMENT
- TEMPORARY ROAD PAVEMENT
- CONCRETE BICYCLE AND FOOTPATH
- METRO STATION BOX LEASE AREA
- TRIHEX IMPERMEABLE INTERLOCKING PAVERS (REFER TO PAVEMENT THICKNESS DESIGN REPORT BY ADE CONSULTING GROUP, LAST REVISED 04 APRIL 2022)
- LIGHT POLE
- PROPOSED DRAINAGE PITS

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA57

ISSUE/REVISION

I/R	DATE	DESCRIPTION
9	08.11.23	FOR APPROVAL
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL

PROJECT NUMBER

60646285

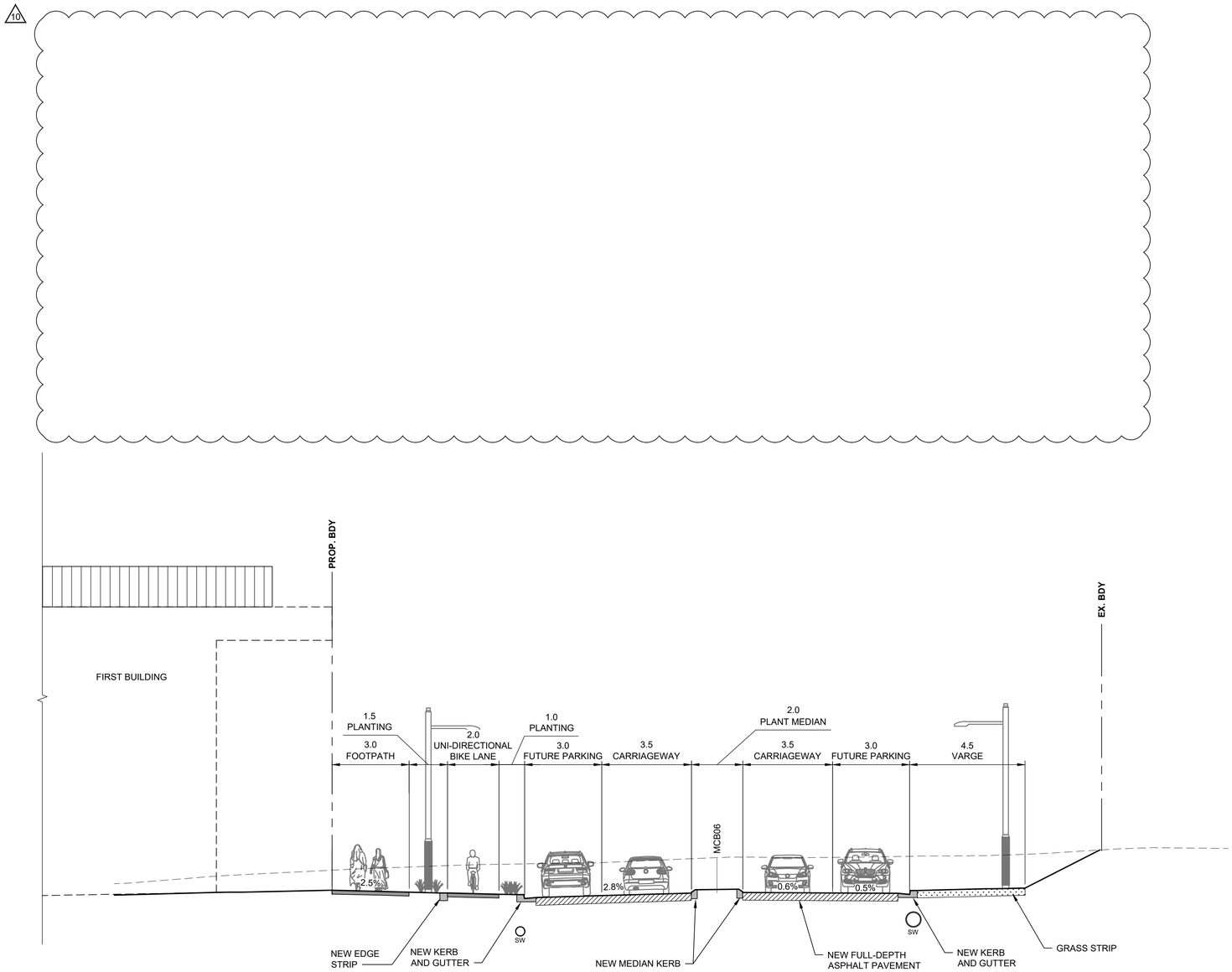
SHEET TITLE

GENERAL ARRANGEMENT PLAN SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0122

ISO A1 594mm x 841mm



2 TYPICAL SECTION - MCB06

CI-0122

SCALE 1:100

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 2.5 5 m
1:100

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
10	08.11.23	FOR APPROVAL
9	15.08.23	ISSUED FOR CONSTRUCTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC
5	02.09.22	ISSUED FOR APPROVAL

PROJECT NUMBER

60646285

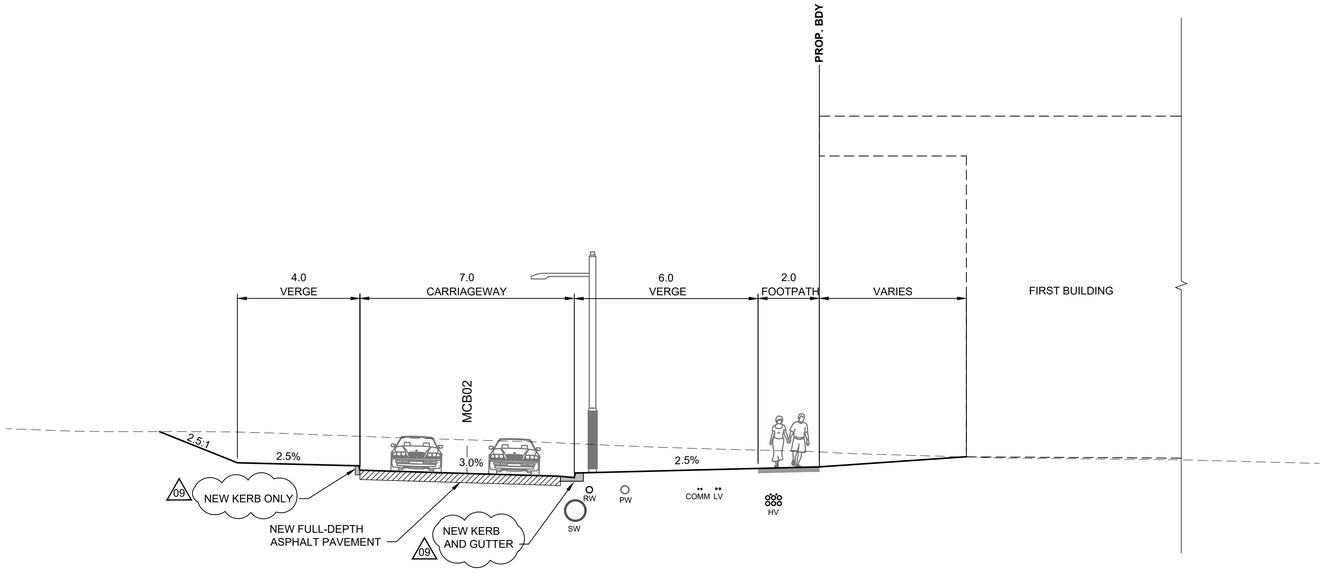
SHEET TITLE

TYPICAL SITE SECTIONS
SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-CI-0141

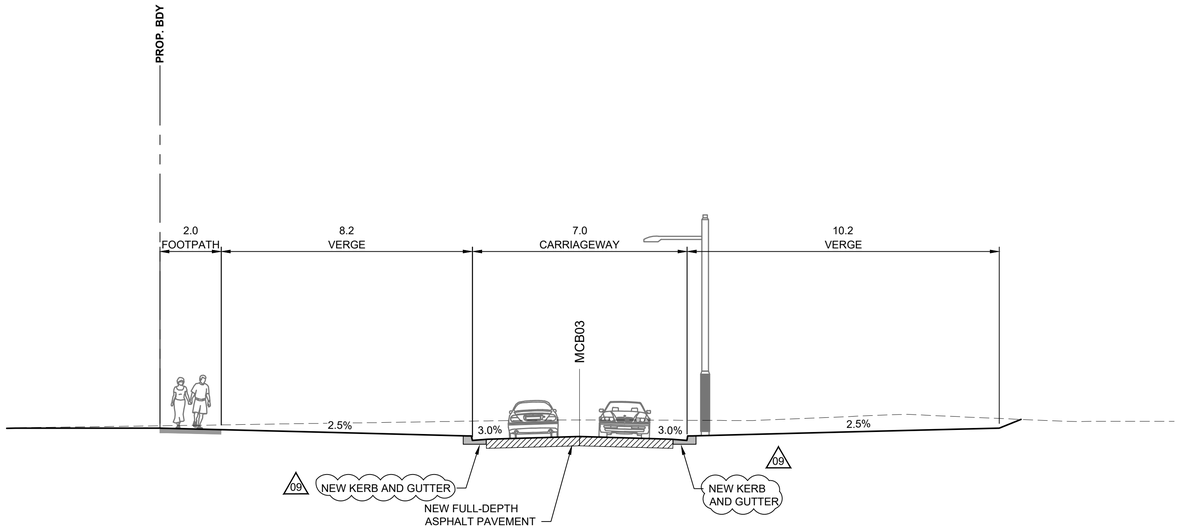
ISO A1 594mm x 841mm



3 TYPICAL SECTION - MCB02

CI-0122

SCALE 1:100



4 TYPICAL SECTION - MCB03

CI-0122

SCALE 1:100

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PROJECT

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CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 2.5 5 m
1:100

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
9	15.08.23	ISSUED FOR CONSTRUCTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC
5	02.09.22	ISSUED FOR APPROVAL
4	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

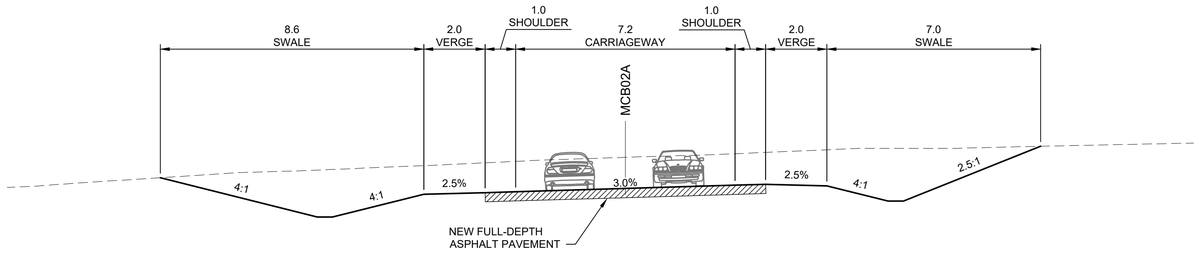
SHEET TITLE

TYPICAL SITE SECTIONS
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0142

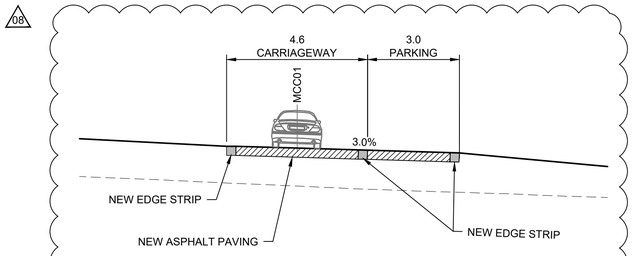
ISO A1 594mm x 841mm



5 TYPICAL SECTION - MCB02A

CI-0122

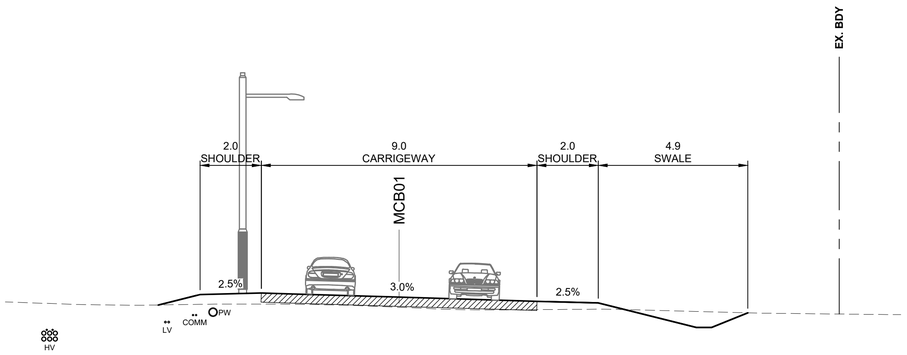
SCALE 1:100



6 TYPICAL SECTION - MCC01

CI-0122

SCALE 1:100



7 TYPICAL SECTION - MBC01

CI-0121

SCALE 1:100

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CONSULTANT

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A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 2.5 5 m
1:100

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	19.05.22	TENDER ADDENDUM #1

FOR CONSTRUCTION

PROJECT NUMBER

60646285

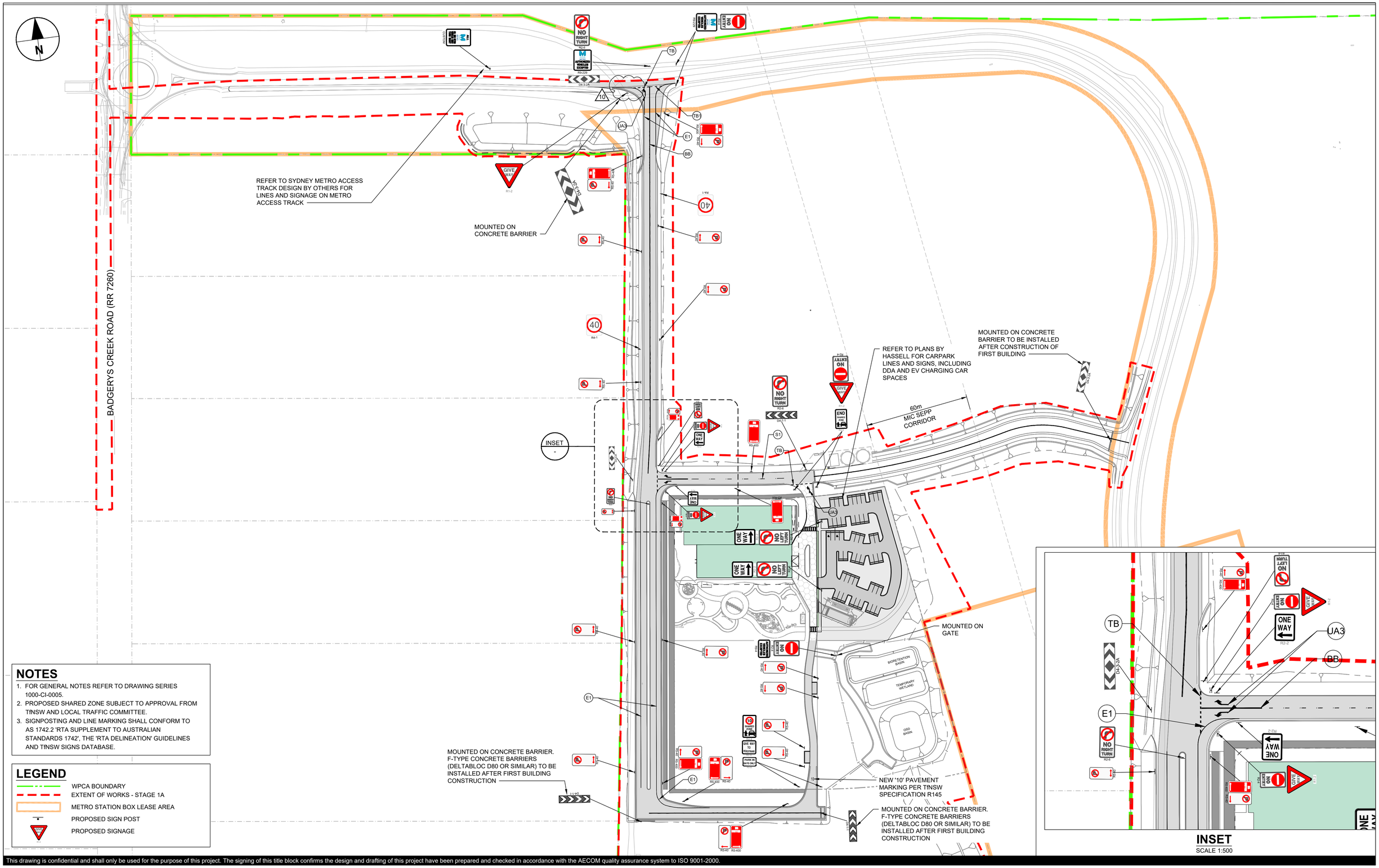
SHEET TITLE

TYPICAL SITE SECTIONS
SHEET 03

SHEET NUMBER

60646285-SHT-00-1000-CI-0143

ISO A1 594mm x 841mm



NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.
2. PROPOSED SHARED ZONE SUBJECT TO APPROVAL FROM TfNSW AND LOCAL TRAFFIC COMMITTEE.
3. SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS 1742.2 'RTA SUPPLEMENT TO AUSTRALIAN STANDARDS 1742', THE 'RTA DELINEATION' GUIDELINES AND TfNSW SIGNS DATABASE.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- METRO STATION BOX LEASE AREA
- PROPOSED SIGN POST
- PROPOSED SIGNAGE

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www.aecom.com

PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 25 50 m
1:1000

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
10	08.11.23	FOR APPROVAL
9	15.08.23	ISSUED FOR CONSTRUCTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC
4	29.04.22	ISSUED FOR TENDER

PROJECT NUMBER

60646285

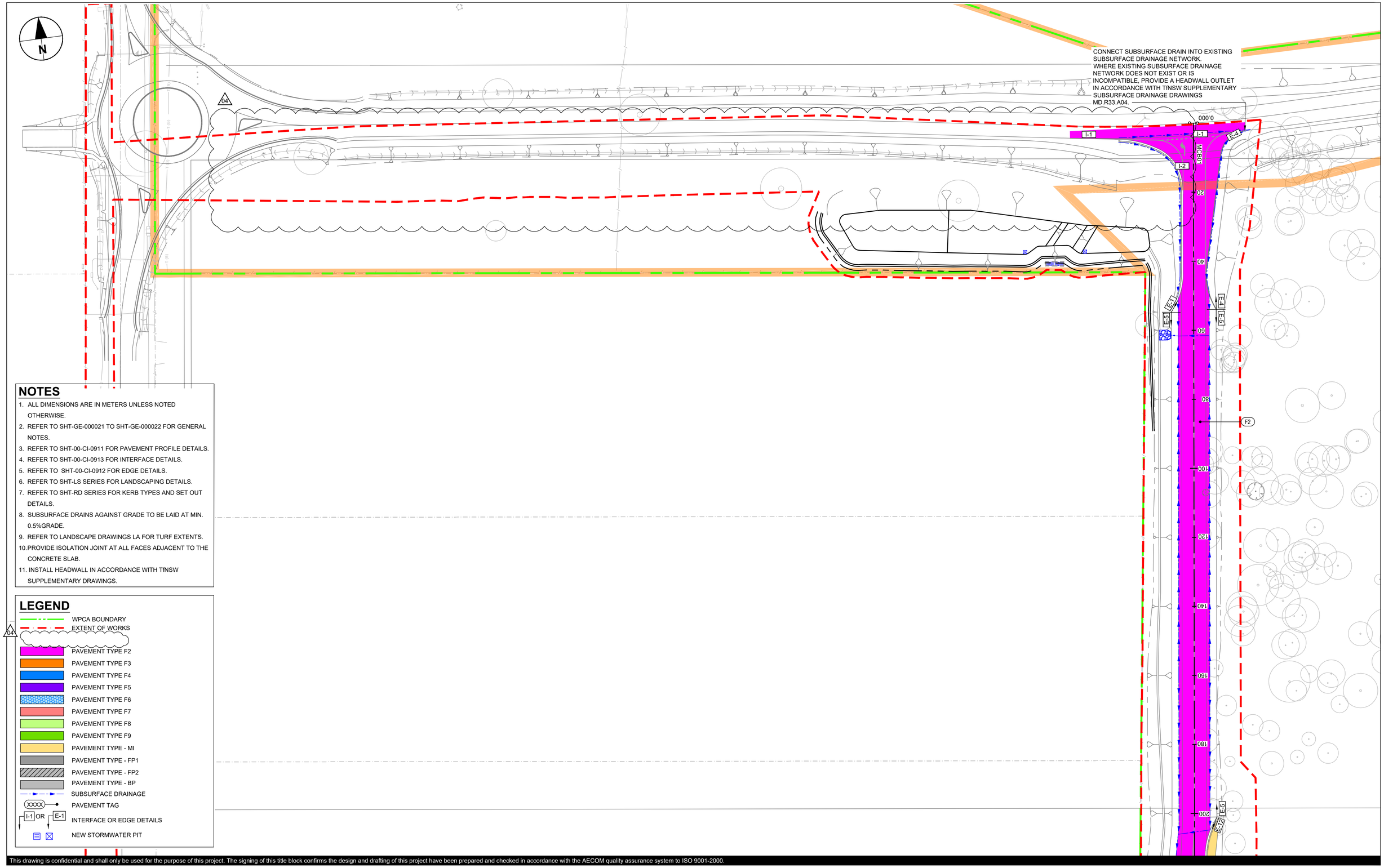
SHEET TITLE

SIGNAGE AND LINEMARKING PLAN

SHEET NUMBER

60646285-SHT-00-1000-CI-0161

ISO A1 594mm x 841mm



NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. REFER TO SHT-GE-000021 TO SHT-GE-000022 FOR GENERAL NOTES.
3. REFER TO SHT-00-CI-0911 FOR PAVEMENT PROFILE DETAILS.
4. REFER TO SHT-00-CI-0913 FOR INTERFACE DETAILS.
5. REFER TO SHT-00-CI-0912 FOR EDGE DETAILS.
6. REFER TO SHT-LS SERIES FOR LANDSCAPING DETAILS.
7. REFER TO SHT-RD SERIES FOR KERB TYPES AND SET OUT DETAILS.
8. SUBSURFACE DRAINS AGAINST GRADE TO BE LAID AT MIN. 0.5%GRADE.
9. REFER TO LANDSCAPE DRAWINGS LA FOR TURF EXTENTS.
10. PROVIDE ISOLATION JOINT AT ALL FACES ADJACENT TO THE CONCRETE SLAB.
11. INSTALL HEADWALL IN ACCORDANCE WITH TfNSW SUPPLEMENTARY DRAWINGS.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS
- 04
- PAVEMENT TYPE F2
- PAVEMENT TYPE F3
- PAVEMENT TYPE F4
- PAVEMENT TYPE F5
- PAVEMENT TYPE F6
- PAVEMENT TYPE F7
- PAVEMENT TYPE F8
- PAVEMENT TYPE F9
- PAVEMENT TYPE - MI
- PAVEMENT TYPE - FP1
- PAVEMENT TYPE - FP2
- PAVEMENT TYPE - BP
- SUBSURFACE DRAINAGE
- XXXX — PAVEMENT TAG
- I-1 OR E-1 — INTERFACE OR EDGE DETAILS
- NEW STORMWATER PIT

Last saved by: SHION.WATAKABE(2023-11-08) Last Plotted: 2023-11-16
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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	08.11.23	FOR APPROVAL
4	15.08.23	ISSUED FOR CONSTRUCTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	04.05.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

PROJECT NUMBER

60646285

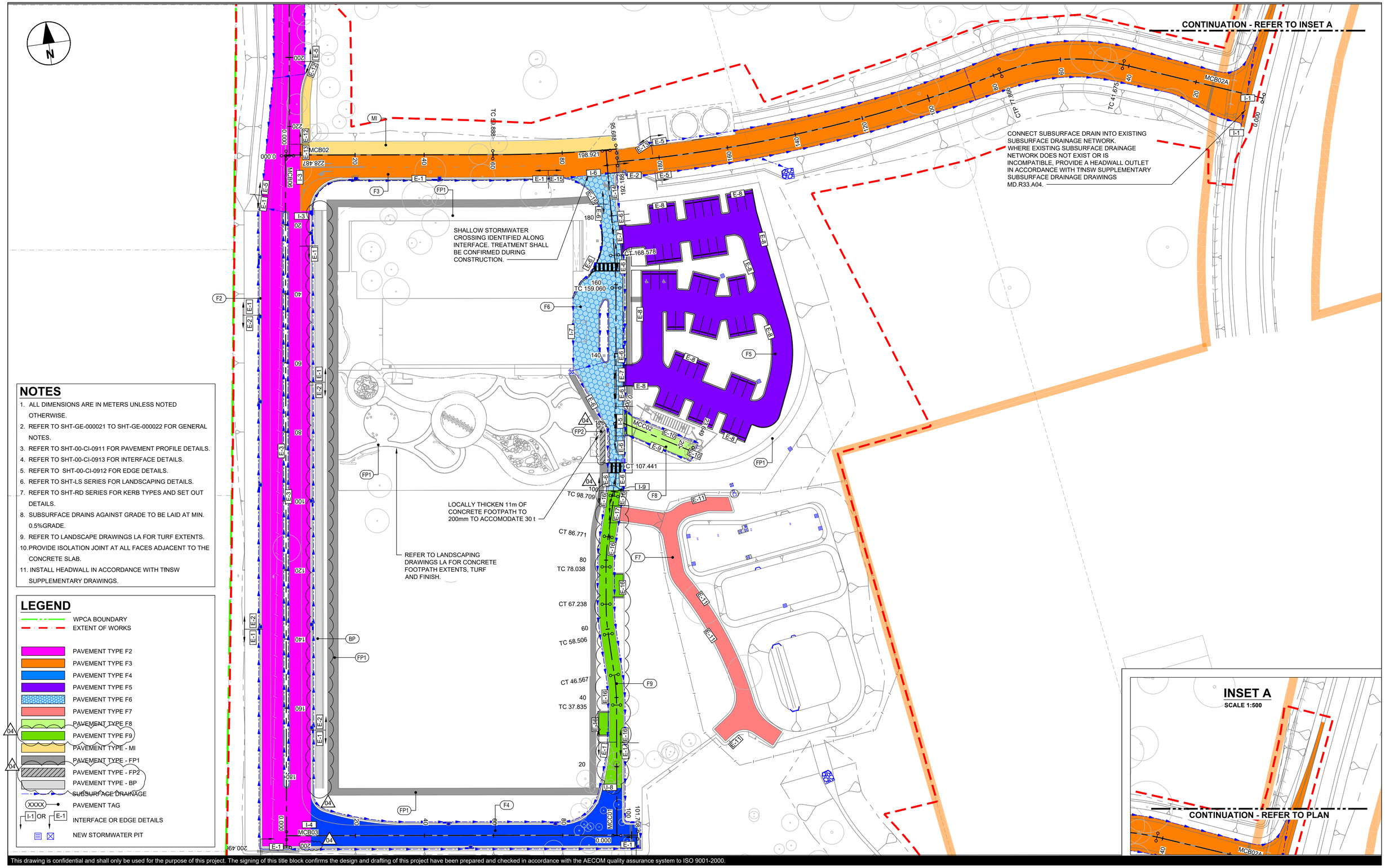
SHEET TITLE

PAVEMENT PLAN
SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-CI-0201

ISO A1 594mm x 841mm



NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. REFER TO SHT-GE-000021 TO SHT-GE-000022 FOR GENERAL NOTES.
3. REFER TO SHT-00-CI-0911 FOR PAVEMENT PROFILE DETAILS.
4. REFER TO SHT-00-CI-0913 FOR INTERFACE DETAILS.
5. REFER TO SHT-00-CI-0912 FOR EDGE DETAILS.
6. REFER TO SHT-LS SERIES FOR LANDSCAPING DETAILS.
7. REFER TO SHT-RD SERIES FOR KERB TYPES AND SET OUT DETAILS.
8. SUBSURFACE DRAINS AGAINST GRADE TO BE LAID AT MIN. 0.5%GRADE.
9. REFER TO LANDSCAPE DRAWINGS LA FOR TURF EXTENTS.
10. PROVIDE ISOLATION JOINT AT ALL FACES ADJACENT TO THE CONCRETE SLAB.
11. INSTALL HEADWALL IN ACCORDANCE WITH TfNSW SUPPLEMENTARY DRAWINGS.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS
- PAVEMENT TYPE F2
- PAVEMENT TYPE F3
- PAVEMENT TYPE F4
- PAVEMENT TYPE F5
- PAVEMENT TYPE F6
- PAVEMENT TYPE F7
- PAVEMENT TYPE F8
- PAVEMENT TYPE F9
- PAVEMENT TYPE - MI
- PAVEMENT TYPE - FP1
- PAVEMENT TYPE - FP2
- PAVEMENT TYPE - BP
- SUBSURFACE DRAINAGE
- XXXX — PAVEMENT TAG
- I-1 OR E-1 — INTERFACE OR EDGE DETAILS
- NEW STORMWATER PIT

Last saved by: DIZONJ(2023-11-10) Last Plotted: 2024-02-16
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CONSULTANT

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

GS	CT	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
4	15.08.23	ISSUED FOR CONSTRUCTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	04.05.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

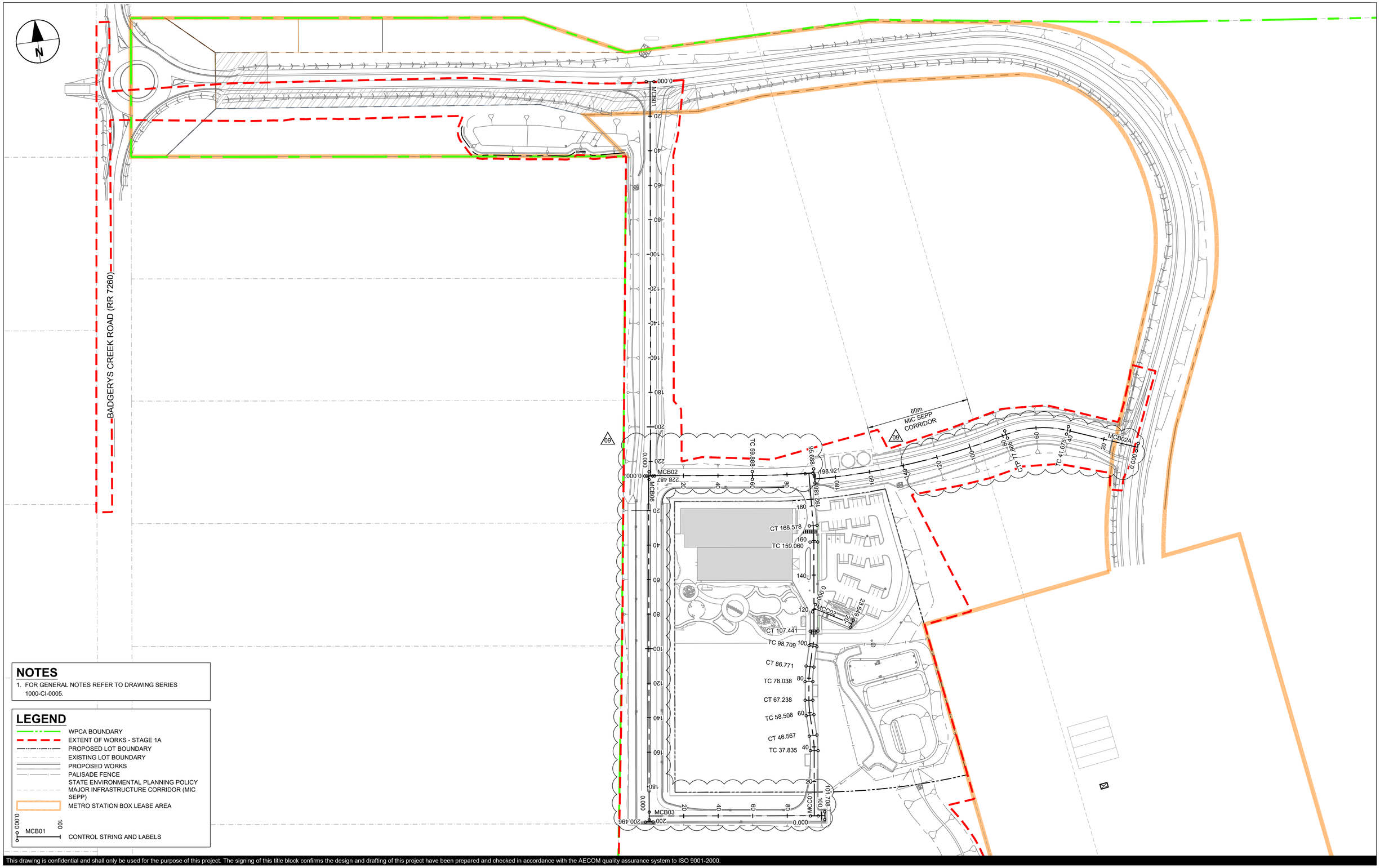
SHEET TITLE

PAVEMENT PLAN
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0202

ISO A1 594mm x 841mm



NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED WORKS
- PALISADE FENCE
- STATE ENVIRONMENTAL PLANNING POLICY MAJOR INFRASTRUCTURE CORRIDOR (MIC SEPP)
- METRO STATION BOX LEASE AREA
- MCB01 — CONTROL STRING AND LABELS

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SCALE BAR

0 25 50 m
1:1000

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PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
9	15.08.23	ISSUED FOR CONSTRUCTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

ROAD CONTROL PLAN

SHEET NUMBER

60646285-SHT-00-1000-CI-0301

ISO A1 594mm x 841mm

MODEL : CONTROL 0500 MASTER - STRING : MCB01

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290470.006	6244552.481	80.570	187°41'46.19"	LINE
	10.000	290468.667	6244542.571	80.851	187°41'46.19"	
	20.000	290467.328	6244532.661	81.003	187°41'46.19"	
	30.000	290465.989	6244522.751	81.007	187°41'46.19"	
	40.000	290464.650	6244512.841	80.866	187°41'46.19"	
	50.000	290463.310	6244502.931	80.666	187°41'46.19"	
	60.000	290461.971	6244493.021	80.563	187°41'46.19"	
	70.000	290460.632	6244483.111	80.635	187°41'46.19"	
	80.000	290459.293	6244473.201	80.765	187°41'46.19"	
	90.000	290457.954	6244463.291	80.895	187°41'46.19"	
	100.000	290456.614	6244453.381	81.025	187°41'46.19"	
	110.000	290455.275	6244443.472	81.155	187°41'46.19"	
	120.000	290453.936	6244433.562	81.285	187°41'46.19"	
	130.000	290452.597	6244423.652	81.415	187°41'46.19"	
	140.000	290451.258	6244413.742	81.545	187°41'46.19"	
	150.000	290449.918	6244403.832	81.662	187°41'46.19"	
	160.000	290448.579	6244393.922	81.713	187°41'46.19"	
	170.000	290447.240	6244384.012	81.691	187°41'46.19"	
	180.000	290445.901	6244374.102	81.604	187°41'46.19"	
	190.000	290444.562	6244364.192	81.504	187°41'46.19"	
	200.000	290443.222	6244354.282	81.404	187°41'46.19"	
	210.000	290441.883	6244344.372	81.304	187°41'46.19"	
	220.000	290440.544	6244334.462	81.204	187°41'46.19"	
End	228.487	290439.408	6244326.052	81.119	187°41'46.19"	

MODEL : CONTROL 0500 MASTER - STRING : MCB02

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290438.445	6244326.384	81.144	97°41'46.13"	LINE		
	10.000	290448.355	6244325.045	80.919	97°41'46.13"			
	20.000	290458.265	6244323.706	80.665	97°41'46.13"			
	30.000	290468.175	6244322.367	80.357	97°41'46.13"			
	40.000	290478.085	6244321.027	80.098	97°41'46.13"			
	50.000	290487.995	6244319.688	79.873	97°41'46.13"			
Point	59.888	290497.794	6244318.364	79.650	97°42'08.25"	ARC	-407.300	35.799
	60.000	290497.905	6244318.349	79.648	97°41'11.58"		-407.300	
	70.000	290507.830	6244317.133	79.427	96°16'47.38"		-407.300	
	80.000	290517.783	6244316.161	79.206	94°52'23.18"		-407.300	
	90.000	290527.756	6244315.434	78.985	93°27'58.98"		-407.300	
End	95.688	290533.435	6244315.130	78.859	92°39'58.72"			

MODEL : CONTROL 0500 MASTER - STRING : MCB02A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290721.116	6244304.341	74.578	291°17'21.36"	LINE		
	10.000	290711.799	6244307.972	74.868	291°17'21.36"			
	20.000	290702.481	6244311.603	75.113	291°17'21.36"			
	30.000	290693.164	6244315.233	75.310	291°17'21.36"			
	40.000	290683.846	6244318.864	75.490	291°17'21.36"			
TC	41.675	290682.286	6244319.472	75.520	291°17'21.36"	ARC	-60.000	36.191
	50.000	290674.344	6244321.948	75.671	283°20'20.65"		-60.000	
	60.000	290664.467	6244323.435	75.864	273°47'23.18"		-60.000	
	70.000	290654.480	6244323.264	76.073	264°14'25.72"		-60.000	
CC	77.866	290646.728	6244321.964	76.245	256°43'45.65"	ARC	411.000	114.322
	80.000	290644.649	6244321.480	76.291	257°01'36.81"		411.000	
	90.000	290634.878	6244319.354	76.510	258°25'15.41"		411.000	
	100.000	290625.058	6244317.466	76.729	259°48'54.02"		411.000	
	110.000	290615.195	6244315.817	76.948	261°12'32.63"		411.000	
	120.000	290605.295	6244314.409	77.167	262°36'11.24"		411.000	
	130.000	290595.364	6244313.243	77.386	263°59'49.85"		411.000	
	140.000	290585.407	6244312.318	77.605	265°23'28.46"		411.000	
	150.000	290575.430	6244311.636	77.824	266°47'07.06"		411.000	
	160.000	290565.440	6244311.197	78.043	268°10'45.67"		411.000	
	170.000	290555.443	6244311.001	78.262	269°34'24.28"		411.000	
	180.000	290545.443	6244311.048	78.481	270°58'02.89"		411.000	
	190.000	290535.447	6244311.338	78.700	272°21'41.50"		411.000	
End	192.188	290533.262	6244311.434	78.748	272°39'59.45"			

MODEL : CONTROL 0500 MASTER - STRING : MCB03

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290411.837	6244130.991	82.705	97°41'34.93"	LINE
	10.000	290421.747	6244129.652	82.210	97°41'34.93"	
	20.000	290431.657	6244128.314	81.715	97°41'34.93"	
	30.000	290441.567	6244126.975	81.220	97°41'34.93"	
	40.000	290451.477	6244125.636	80.725	97°41'34.93"	
	50.000	290461.387	6244124.298	80.230	97°41'34.93"	
	60.000	290471.297	6244122.959	79.735	97°41'34.93"	
	70.000	290481.207	6244121.620	79.240	97°41'34.93"	
	80.000	290491.117	6244120.282	78.745	97°41'34.93"	
	90.000	290501.027	6244118.943	78.250	97°41'34.93"	
	100.000	290510.937	6244117.605	77.755	97°41'34.93"	
End	101.708	290512.630	6244117.376	77.670	97°41'34.93"	

MODEL : CONTROL 0500 MASTER - STRING : MCB06

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290438.218	6244326.213	81.146	187°41'46.08"	LINE
	10.000	290436.879	6244316.303	81.048	187°41'46.08"	
	20.000	290435.540	6244306.393	81.003	187°41'46.08"	
	30.000	290434.201	6244296.483	81.039	187°41'46.08"	
	40.000	290432.862	6244286.573	81.135	187°41'46.08"	
	50.000	290431.522	6244276.663	81.235	187°41'46.08"	
	60.000	290430.183	6244266.753	81.335	187°41'46.08"	
	70.000	290428.844	6244256.843	81.435	187°41'46.08"	
	80.000	290427.505	6244246.933	81.535	187°41'46.08"	
	90.000	290426.166	6244237.023	81.635	187°41'46.08"	
	100.000	290424.826	6244227.114	81.735	187°41'46.08"	
	110.000	290423.487	6244217.204	81.835	187°41'46.08"	
	120.000	290422.148	6244207.294	81.935	187°41'46.08"	
	130.000	290420.809	6244197.384	82.035	187°41'46.08"	
	140.000	290419.470	6244187.474	82.135	187°41'46.08"	
	150.000	290418.131	6244177.564	82.235	187°41'46.08"	
	160.000	290416.791	6244167.654	82.335	187°41'46.08"	
	170.000	290415.452	6244157.744	82.435	187°41'46.08"	
	180.000	290414.113	6244147.834	82.535	187°41'46.08"	
	190.000	290412.774	6244137.924	82.635	187°41'46.08"	
	200.000	290411.435	6244128.014	82.735	187°41'46.08"	
End	200.496	290411.368	6244127.523	82.740	187°41'46.08"	

MODEL : CONTROL 0500 MASTER - STRING : MCC01

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290506.658	6244118.054	77.972	7°41'46.02"	LINE		
	10.000	290507.997	6244127.963	77.760	7°41'46.02"			
	20.000	290509.337	6244137.873	77.805	7°41'46.02"			
	30.000	290510.676	6244147.783	77.855	7°41'46.02"			
TC	37.835	290511.725	6244155.548	77.894	7°41'46.02"	ARC	-60.000	8.732
	40.000	290511.976	6244157.698	77.906	5°37'42.81"		-60.000	
CT	46.567	290512.262	6244164.255	77.956	359°21'28.42"	LINE		11.940
	50.000	290512.223	6244167.688	77.988	359°21'28.42"			
TC	58.506	290512.128	6244176.194	78.067	359°21'28.42"	ARC	60.000	8.732
	60.000	290512.130	6244177.688	78.081	0°47'03.38"		60.000	
CT	67.238	290512.665	6244184.901	78.130	7°41'45.33"	LINE		10.800
	70.000	290513.035	6244187.639	78.144	7°41'45.33"			
TC	78.038	290514.111	6244195.604	78.184	7°41'45.33"	ARC	60.000	8.732
	80.000	290514.405	6244197.544	78.193	9°34'09.66"		60.000	
CT	86.771	290515.905	6244204.143	78.208	16°02'05.45"	LINE		11.938
	90.000	290516.797	6244207.246	78.210	16°02'05.45"			
TC	98.709	290519.203	6244215.617	78.216	16°02'05.45"	ARC	-60.000	8.732
	100.000	290519.546	6244216.861	78.217	14°48'07.50"		-60.000	
CT	107.441	290520.996	6244224.155	78.240	7°41'46.17"	LINE		51.619
	110.000	290521.339	6244226.690	78.253	7°41'46.17"			
	120.000	290522.678	6244236.600	78.303	7°41'46.17"			
	130.000	290524.018	6244246.510	78.353	7°41'46.17"			
	140.000	290525.357	6244256.420	78.403	7°41'46.17"			
	150.000	290526.696	6244266.330	78.453	7°41'46.17"			
TC	159.060	290527.909	6244275.309	78.498	7°41'46.17"	ARC	-120.000	9.518
	160.000	290528.031	6244276.241	78.503	7°14'50.76"		-120.000	
CT	168.578	290528.809	6244284.781	78.546	3°09'06.56"	LINE		30.343
	170.000	290528.887	6244286.201	78.553	3°09'06.56"			
	180.000	290529.437	6244296.186	78.603	3°09'06.56"			
	190.000	290529.987	6244306.171	78.664	3°09'06.56"			
End	198.921	290530.477	6244315.078	78.918	3°09'06.56"			

MODEL : CONTROL 0500 MASTER - STRING : MCC02

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290522.776	6244237.324	78.306	120°09'04.66"	LINE
	10.000	290531.423	6244232.301	78.039	120°09'04.66"	
	20.000	290540.070	6244227.278	77.936	120°09'04.66"	
End	23.649	290543.225	6244225.446	77.900	120°09'04.66"	

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.08.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

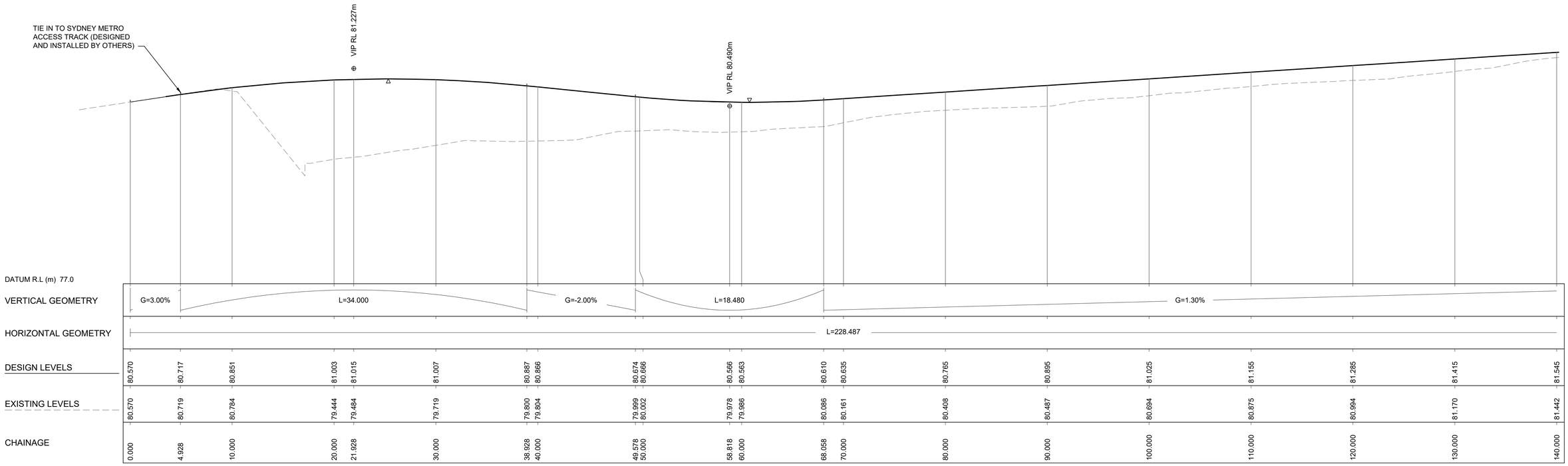
SHEET TITLE

ROAD CONTROL
SET-OUT TABLES

SHEET NUMBER

60646285-SHT-00-1000-CI-0321

ISO A1 594mm x 841mm



LONGITUDINAL SECTION - MCB01

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

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DESIGNER	CHECKED	APPROVED

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DATUM	AHD	SURVEY	GDA94/MGA56

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6	23.01.23	ISSUED FOR DRAFT IFC
5	02.09.22	ISSUED FOR APPROVAL
4	29.04.22	ISSUED FOR TENDER
3	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

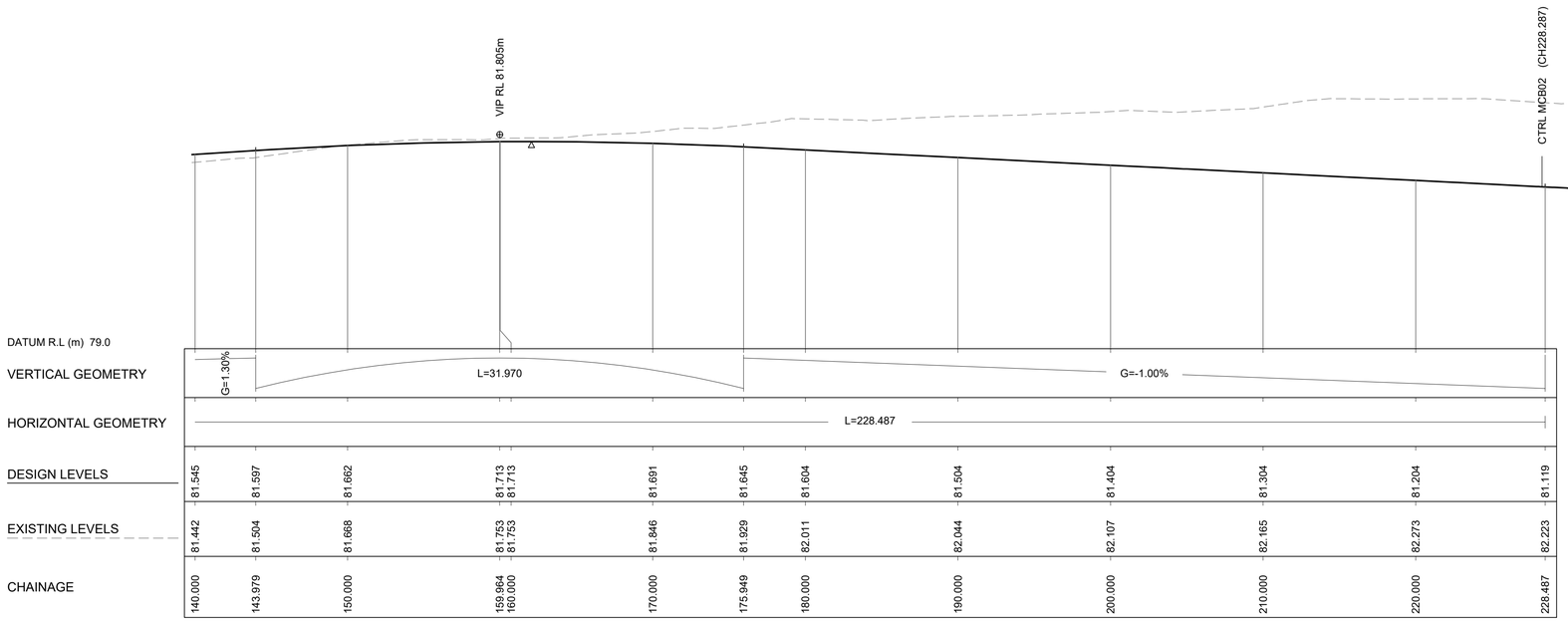
SHEET TITLE

ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-CI-0341

ISO A1 594mm x 841mm



LONGITUDINAL SECTION - MCB01

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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CORE PRECINCT
BRINGELLY

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SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

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JD	CR	GAR
DESIGNER	CHECKED	APPROVED

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DATUM	AHD	SURVEY	GDA94/MGA56

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3	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

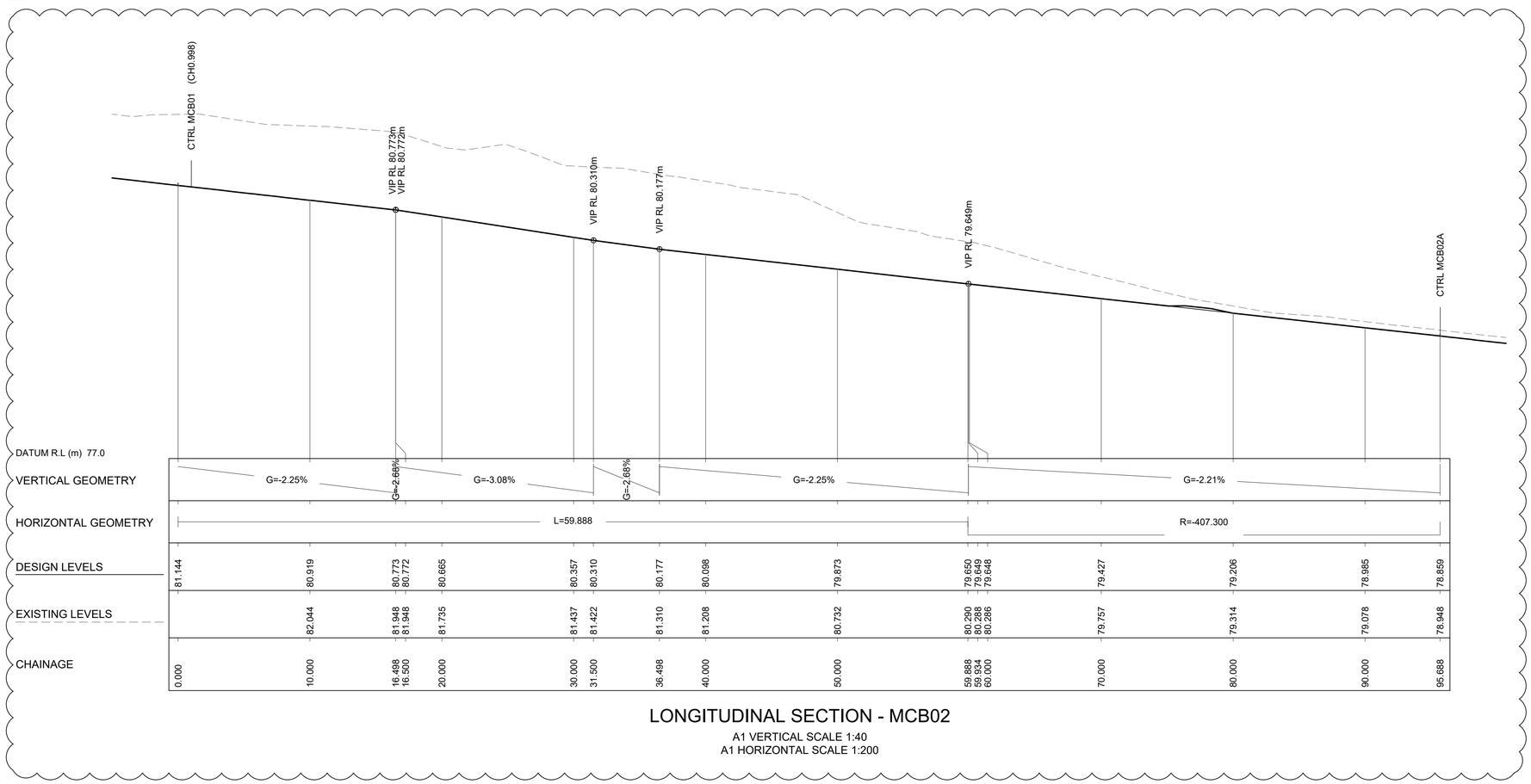
ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0342

ISO A1 594mm x 841mm

09



LONGITUDINAL SECTION - MCB02

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
9	15.08.23	ISSUED FOR CONSTRUCTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC
5	02.09.22	ISSUED FOR APPROVAL
4	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

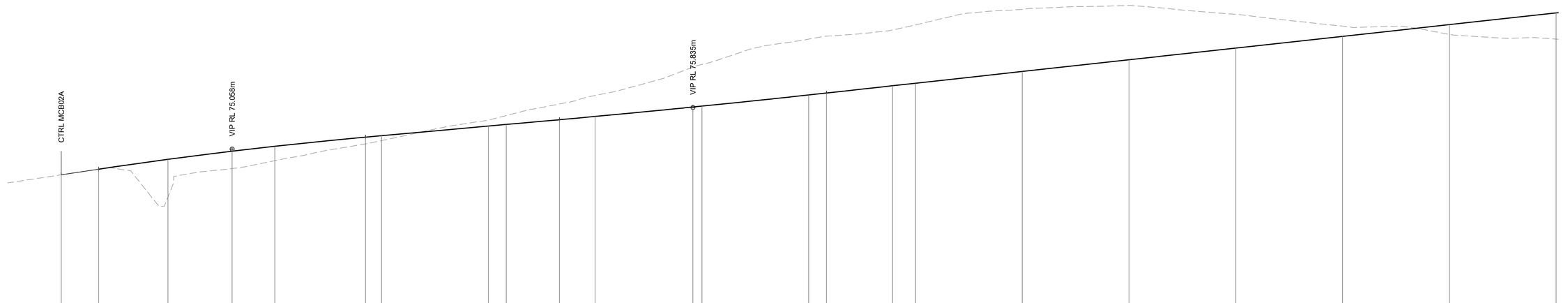
ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 03

SHEET NUMBER

60646285-SHT-00-1000-CI-0343

ISO A1 594mm x 841mm

09



DATUM R.L (m) 72.0

VERTICAL GEOMETRY: G=3.00% | L=25.000 | G=1.80% | L=25.000 | G=2.19%

HORIZONTAL GEOMETRY: L=41.675 | R=-60.000 | R=411.000

CHAINAGE	DESIGN LEVELS	EXISTING LEVELS
0.000	74.578	74.578
3.500	74.683	74.683
10.000	74.868	74.165
16.000	75.020	74.694
20.000	75.113	74.843
28.500	75.283	75.156
30.000	75.310	75.219
40.000	75.490	75.601
41.675	75.520	75.686
46.657	75.610	75.901
50.000	75.671	76.062
59.157	75.847	76.593
60.000	75.864	76.643
70.000	76.073	77.116
71.657	76.109	77.171
77.866	76.245	77.287
80.000	76.291	77.381
90.000	76.510	77.672
100.000	76.729	77.747
110.000	76.948	77.580
120.000	77.167	77.359
130.000	77.386	77.205
140.000	77.605	77.115

LONGITUDINAL SECTION - MCB02A

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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PROJECT

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CLIENT

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SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA57

ISSUE/REVISION

I/R	DATE	DESCRIPTION
9	15.08.23	ISSUED FOR CONSTRUCTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC
5	02.09.22	ISSUED FOR APPROVAL
4	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

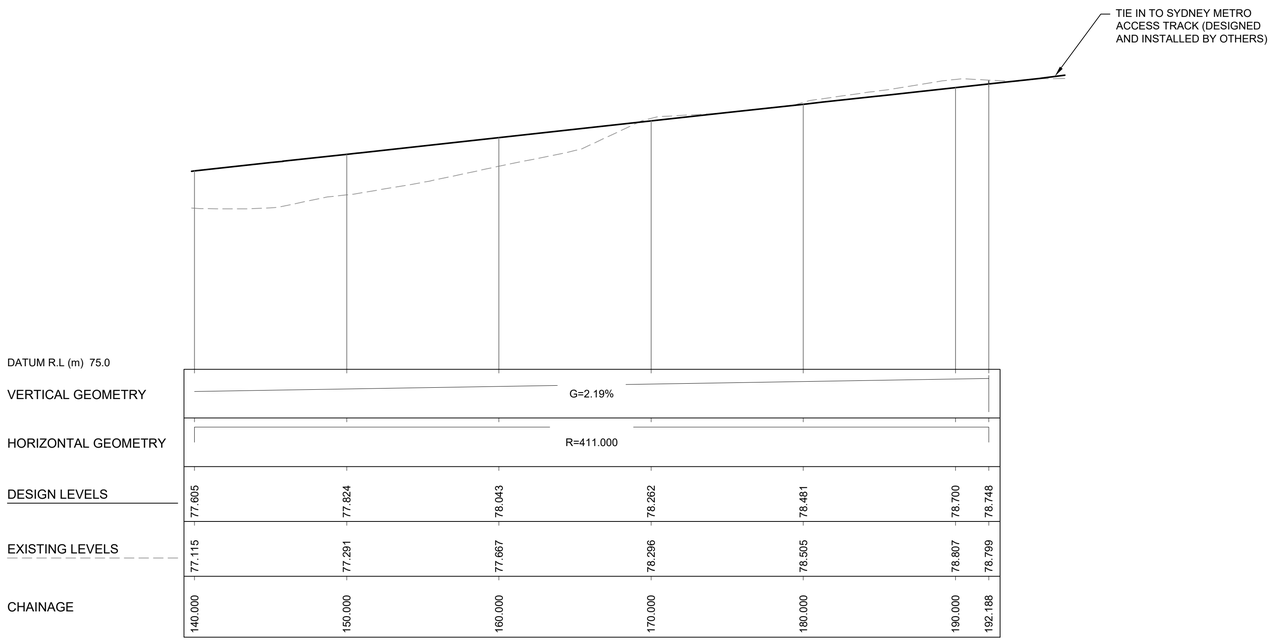
SHEET TITLE

ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 04

SHEET NUMBER

60646285-SHT-00-1000-CI-0344

ISO A1 594mm x 841mm



LONGITUDINAL SECTION - MCB02A

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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PROJECT

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SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER
2	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

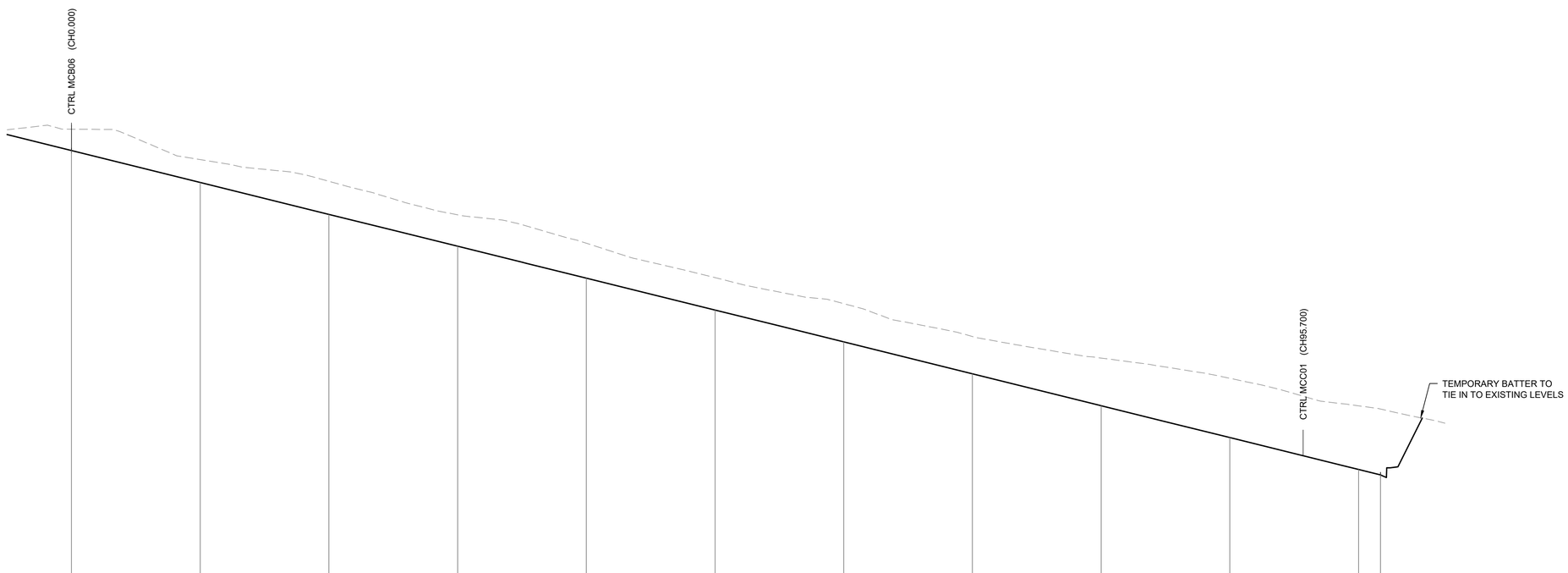
ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 05

SHEET NUMBER

60646285-SHT-00-1000-CI-0345

ISO A1 594mm x 841mm

08



DATUM R.L (m) 76.0

VERTICAL GEOMETRY: G=-4.95%

HORIZONTAL GEOMETRY: L=101.708

CHAINAGE	DESIGN LEVELS	EXISTING LEVELS
0.000	82.705	83.036
10.000	82.210	82.564
20.000	81.715	82.228
30.000	81.220	81.707
40.000	80.725	81.267
50.000	80.230	80.732
60.000	79.735	80.329
70.000	79.240	79.819
80.000	78.745	79.484
90.000	78.250	79.171
100.000	77.755	78.743
101.708	77.670	78.693

LONGITUDINAL SECTION - MCB03

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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PROJECT

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CLIENT

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SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

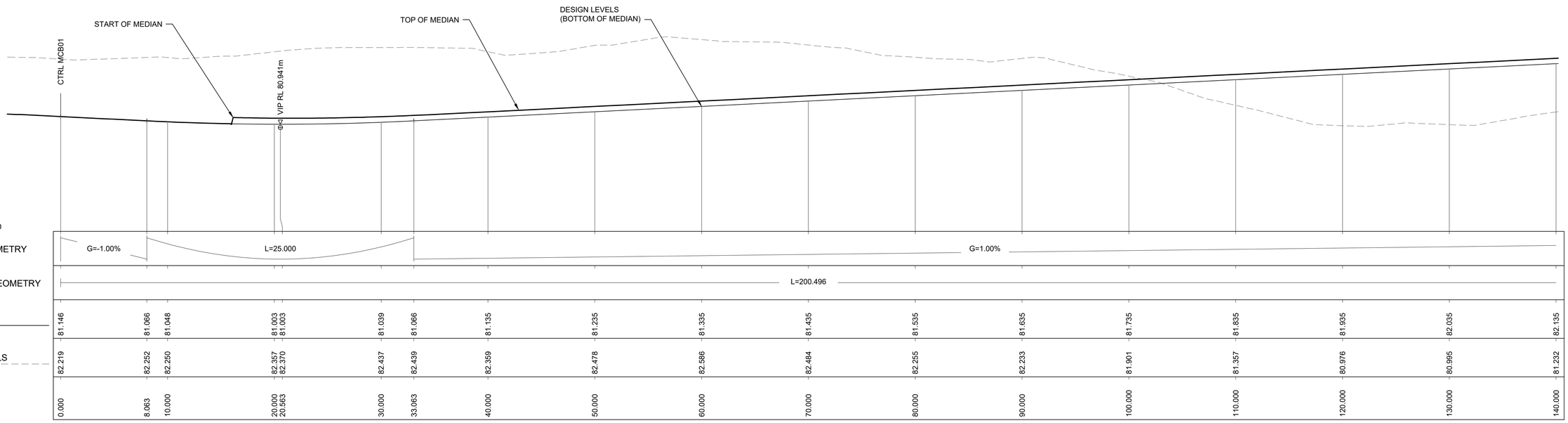
ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 06

SHEET NUMBER

60646285-SHT-00-1000-CI-0346

ISO A1 594mm x 841mm

08



LONGITUDINAL SECTION - MCB06

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

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- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

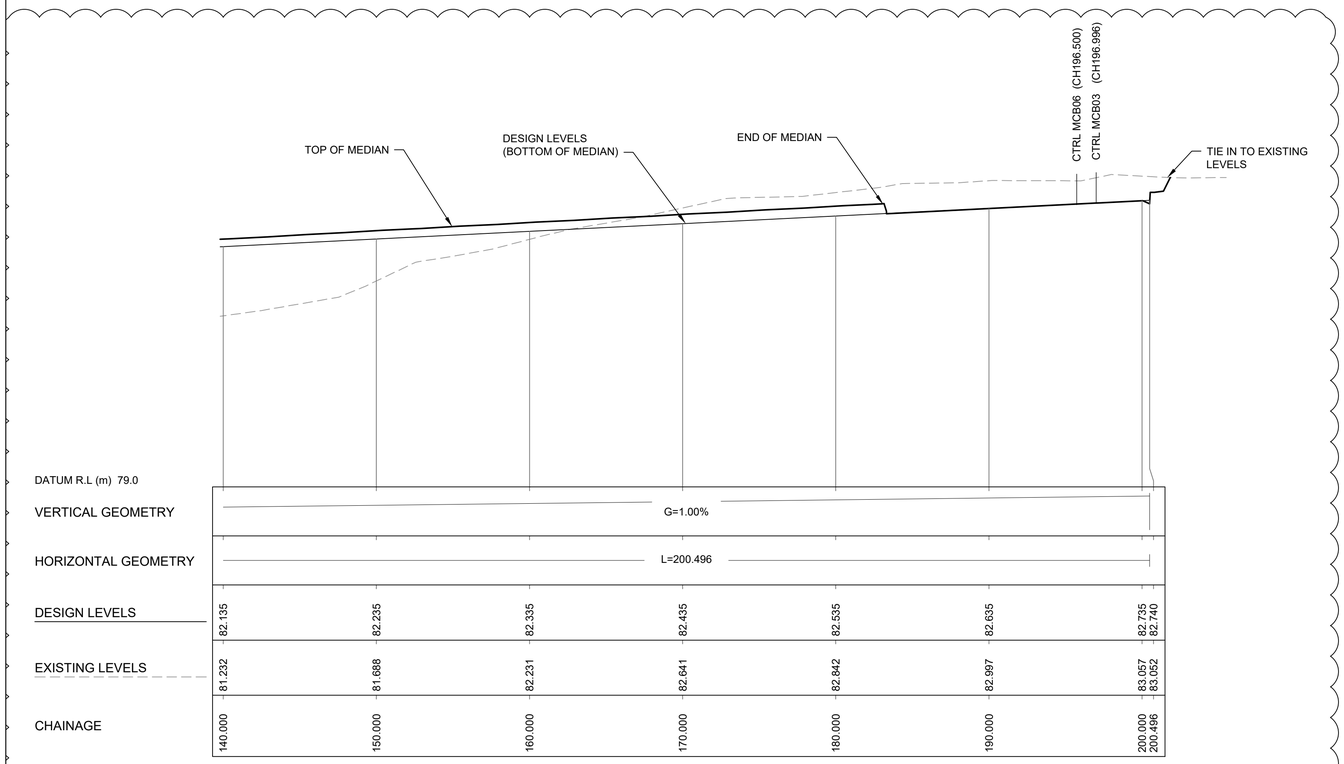
ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 07

SHEET NUMBER

60646285-SHT-00-1000-CI-0347

ISO A1 594mm x 841mm

06



LONGITUDINAL SECTION - MCB06

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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PROJECT

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CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

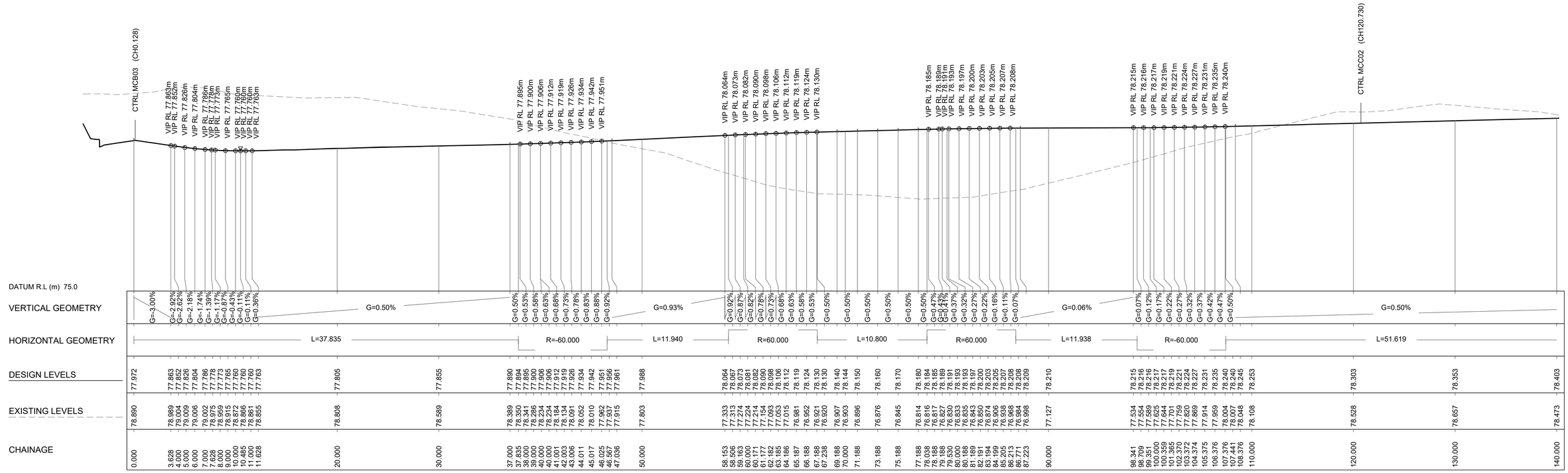
SHEET TITLE

ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 08

SHEET NUMBER

60646285-SHT-00-1000-CI-0348

ISO A1 594mm x 841mm



LONGITUDINAL SECTION - MCC01

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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PROJECT

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CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
6	22.05.23	ISSUED FOR CONSTRUCTION
5	14.04.23	ISSUED FOR CONSTRUCTION
4	23.01.23	ISSUED FOR DRAFT IFC
3	02.09.22	ISSUED FOR APPROVAL
2	29.04.22	ISSUED FOR TENDER
1	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

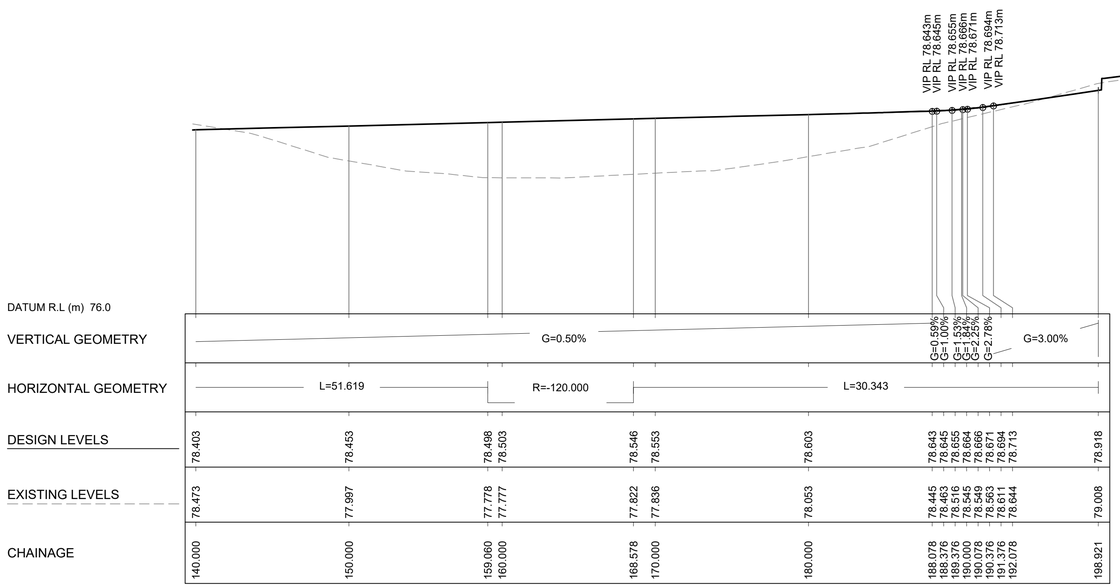
SHEET TITLE

ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 09

SHEET NUMBER

60646285-SHT-00-1000-CI-0349

ISO A1 594mm x 841mm



LONGITUDINAL SECTION - MCC01

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
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PROJECT

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SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
6	22.05.23	ISSUED FOR CONSTRUCTION
5	14.04.23	ISSUED FOR CONSTRUCTION
4	23.01.23	ISSUED FOR DRAFT IFC
3	02.09.22	ISSUED FOR APPROVAL
2	29.04.22	ISSUED FOR TENDER
1	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

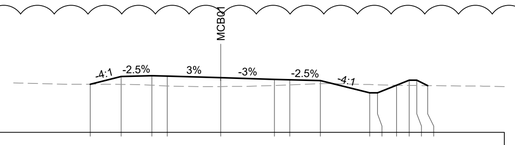
SHEET TITLE

ROAD CONTROL
LONGITUDINAL SECTIONS
SHEET 10

SHEET NUMBER

60646285-SHT-00-1000-CI-0350

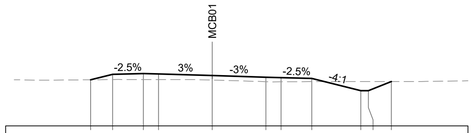
08



DATUM R.L 77.0

CUT STRINGS	IAL	EVL	ESL	CEL	LDB	CER	ESR	EVR	DKR	DJR	IAR	EHR	EH2R	IAFR
DESIGN LEVELS	80.141	80.648	80.698	80.668	80.563	80.458	80.428	80.378	79.571	79.571	80.071	80.400	80.400	80.046
LEVEL DIFFERENCE	0.000	-0.520	-0.624	-0.641	-0.577	-0.398	-0.332	-0.209	0.546	0.533	0.000	-0.344	-0.347	0.000
EXISTING SURFACE	80.141	80.128	80.074	80.027	79.986	80.060	80.096	80.169	80.117	80.104	80.071	80.056	80.053	80.046
DESIGN OFFSETS	-8.527	-6.500	-4.500	-3.500	0.000	3.500	4.500	6.500	9.728	10.228	11.478	12.301	12.801	13.508

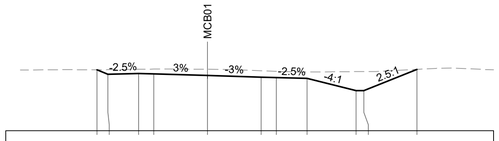
CH 60.000



DATUM R.L 78.0

CUT STRINGS	IAL	EVL	ESL	CEL	LDB	CER	ESR	EVR	DKR	DJR	IAR
DESIGN LEVELS	81.012	81.370	81.420	81.390	81.285	81.180	81.150	81.100	80.300	80.300	80.898
LEVEL DIFFERENCE	0.000	-0.343	-0.396	-0.368	-0.291	-0.291	-0.267	-0.209	0.595	0.596	0.000
EXISTING SURFACE	81.012	81.027	81.024	81.022	80.994	80.889	80.883	80.891	80.895	80.896	80.898
DESIGN OFFSETS	-7.931	-6.500	-4.500	-3.500	0.000	3.500	4.500	6.500	9.700	10.200	11.695

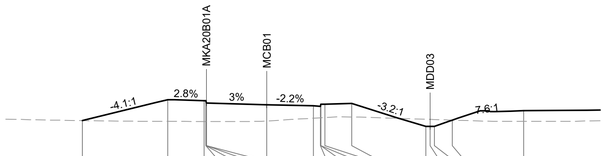
CH 120.000



DATUM R.L 78.0

CUT STRINGS	IAL	EVL	ESL	CEL	LDB	CER	ESR	EVR	DKR	DJR	IAR
DESIGN LEVELS	81.976	81.689	81.739	81.709	81.604	81.499	81.469	81.419	80.618	80.618	82.007
LEVEL DIFFERENCE	0.000	0.296	0.273	0.315	0.407	0.419	0.413	0.415	1.242	1.246	0.000
EXISTING SURFACE	81.976	81.985	82.012	82.025	82.011	81.918	81.882	81.834	81.860	81.864	82.007
DESIGN OFFSETS	-7.217	-6.500	-4.500	-3.500	0.000	3.500	4.500	6.500	9.707	10.207	13.681

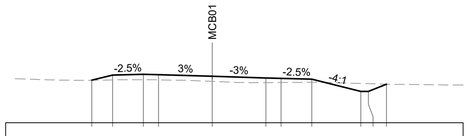
CH 180.000



DATUM R.L 77.0

CUT STRINGS	IAL	EVL	CBL	CTL	C3L	CFL	CEL	LDB	CER	CFR	C3R	CTR	CBR	EVR	DKR	DJR	IAL	EH3R
DESIGN LEVELS	79.832	81.201	81.135	81.134	81.134	80.984	80.984	80.866	80.798	80.758	80.908	80.908	80.908	80.952	79.458	79.455	79.454	79.864	80.480
LEVEL DIFFERENCE	-0.001	-1.421	-1.362	-1.362	-1.362	-1.212	-1.212	-1.062	-0.810	-0.745	-0.893	-0.893	-0.893	-0.884	0.462	0.454	0.447	0.000	-0.701
EXISTING SURFACE	79.832	79.780	79.773	79.773	79.773	79.773	79.773	79.804	79.989	80.014	80.015	80.015	80.015	80.068	79.918	79.910	79.901	79.864	79.779
DESIGN OFFSETS	-12.046	-6.464	-4.095	-3.974	-3.974	-3.944	-3.944	0.000	3.050	3.500	3.530	3.530	3.530	5.546	10.391	10.666	10.943	12.116	16.768

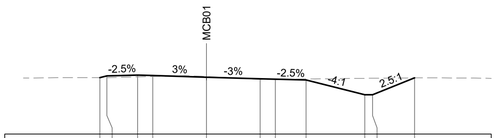
CH 40.000



DATUM R.L 78.0

CUT STRINGS	IAL	EVL	ESL	CEL	LDB	CER	ESR	EVR	DKR	DJR	IAR
DESIGN LEVELS	80.770	81.110	81.160	81.130	81.025	80.920	80.890	80.840	80.040	80.040	80.513
LEVEL DIFFERENCE	0.000	-0.318	-0.363	-0.334	-0.331	-0.308	-0.271	-0.207	0.518	0.504	0.000
EXISTING SURFACE	80.770	80.792	80.797	80.796	80.694	80.612	80.619	80.633	80.558	80.544	80.513
DESIGN OFFSETS	-7.862	-6.500	-4.500	-3.500	0.000	3.500	4.500	6.500	9.700	10.200	11.382

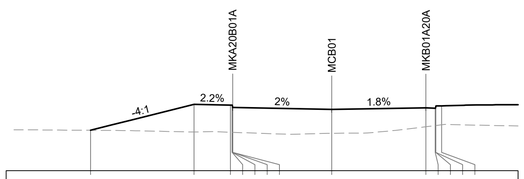
CH 100.000



DATUM R.L 78.0

CUT STRINGS	IAL	EVL	ESL	CEL	LDB	CER	ESR	EVR	DKR	DJR	IAR
DESIGN LEVELS	81.686	81.798	81.848	81.818	81.713	81.608	81.578	81.528	80.567	80.567	81.667
LEVEL DIFFERENCE	0.000	-0.113	-0.117	-0.061	0.041	-0.038	-0.009	0.065	1.067	1.071	0.000
EXISTING SURFACE	81.686	81.685	81.731	81.756	81.753	81.570	81.569	81.593	81.634	81.639	81.667
DESIGN OFFSETS	-6.952	-6.500	-4.500	-3.500	0.000	3.500	4.500	6.500	10.341	10.841	13.590

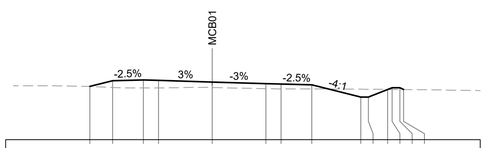
CH 160.000



DATUM R.L 77.0

CUT STRINGS	IAL	EVL	CBL	CTL	C3L	CFL	CEL	LDL	CEL	CFL	C3L	CTL	CBL
DESIGN LEVELS	79.639	81.335	81.283	81.283	81.283	81.133	81.133	81.003	81.110	81.079	81.182	81.182	81.234
LEVEL DIFFERENCE	0.000	-1.803	-1.771	-1.775	-1.775	-1.626	-1.626	-1.559	-1.236	-1.130	-1.276	-1.276	-1.236
EXISTING SURFACE	79.639	79.532	79.512	79.508	79.508	79.507	79.507	79.444	79.875	79.948	79.953	79.953	79.999
DESIGN OFFSETS	-15.756	-8.993	-6.624	-6.503	-6.503	-6.473	-6.473	0.000	6.147	6.754	6.795	6.795	7.170

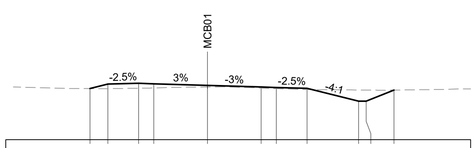
CH 20.000



DATUM R.L 77.0

CUT STRINGS	IAL	EVL	ESL	CEL	LDB	CER	ESR	EVR	DKR	DJR	IAR	EHR	EH2R	IAFR
DESIGN LEVELS	80.479	80.850	80.900	80.870	80.765	80.660	80.630	80.580	79.780	79.780	80.285	80.400	80.400	80.277
LEVEL DIFFERENCE	0.000	-0.437	-0.522	-0.492	-0.357	-0.324	-0.310	-0.265	0.519	0.514	0.000	-0.118	-0.121	0.000
EXISTING SURFACE	80.479	80.413	80.378	80.378	80.408	80.336	80.320	80.315	80.299	80.294	80.285	80.282	80.279	80.277
DESIGN OFFSETS	-7.983	-6.500	-4.500	-3.500	0.000	3.500	4.500	6.500	9.700	10.200	11.461	11.750	12.250	12.497

CH 80.000



DATUM R.L 78.0

CUT STRINGS	IAL	EVL	ESL	CEL	LDB	CER	ESR	EVR	DKR	DJR	IAR
DESIGN LEVELS	81.337	81.630	81.680	81.650	81.545	81.440	81.410	81.360	80.517	80.517	81.241
LEVEL DIFFERENCE	0.000	-0.296	-0.319	-0.270	-0.103	-0.066	-0.071	-0.085	0.728	0.724	0.000
EXISTING SURFACE	81.337	81.334	81.361	81.380	81.442	81.374	81.339	81.275	81.245	81.241	81.241
DESIGN OFFSETS	-7.673	-6.500	-4.500	-3.500	0.000	3.500	4.500	6.500	9.870	10.370	12.179

CH 140.000

CROSS SECTION - MCB01

A1 HORIZONTAL SCALE 1:200

A1 VERTICAL SCALE 1:200

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AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200 V=1:200

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

ROAD CONTROL
CROSS SECTIONS
SHEET 01

SHEET NUMBER

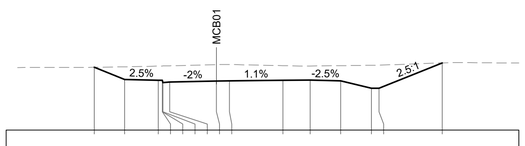
60646285-SHT-00-1000-CI-0371

ISO A1 594mm x 841mm

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AU\SHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0371.DWG

ISO A1 594mm x 841mm

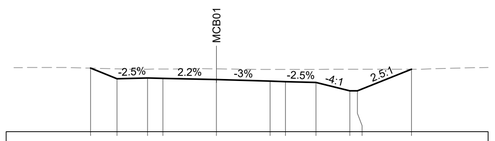
08



DATUM R.L 78.0

CUT STRINGS	IAL	EVL	CBL	CTL	C3L	CFL	CEL	LDL	LDR	CER	ESR	EVR	DKR	DJR	IAR
DESIGN LEVELS	82.100	81.307	81.252	81.252	81.252	81.102	81.142	81.204	81.213	81.251	81.270	81.220	80.731	80.731	82.385
LEVEL DIFFERENCE	0.000	0.825	0.925	0.933	0.933	1.084	1.055	1.069	1.069	0.956	0.914	0.987	1.499	1.505	0.000
EXISTING SURFACE	82.100	82.131	82.177	82.185	82.185	82.186	82.197	82.273	82.282	82.206	82.183	82.207	82.230	82.237	82.385
DESIGN OFFSETS	-7.983	-6.000	-3.800	-3.530	-3.530	-3.500	-3.050	0.000	0.842	4.342	6.111	8.111	10.111	10.611	14.745

CH 220.000



DATUM R.L 78.0

CUT STRINGS	IAL	EVL	ESL	CEL	LDR	CER	ESR	EVR	DKR	DJR	IAR
DESIGN LEVELS	82.151	81.460	81.510	81.480	81.404	81.299	81.269	81.219	80.668	80.668	82.078
LEVEL DIFFERENCE	0.000	0.645	0.572	0.612	0.703	0.762	0.796	0.853	1.411	1.411	0.000
EXISTING SURFACE	82.151	82.104	82.082	82.092	82.107	82.061	82.065	82.072	82.079	82.078	82.078
DESIGN OFFSETS	-8.227	-6.500	-4.500	-3.500	0.000	3.500	4.500	6.500	8.706	9.206	12.732

CH 200.000

CROSS SECTION - MCB01

A1 HORIZONTAL SCALE 1:200

A1 VERTICAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AUSHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0372.DWG

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AECOM

CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200 V=1:200

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

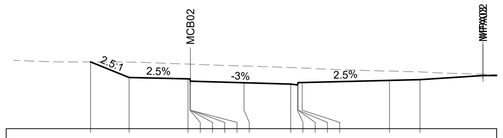
ROAD CONTROL
CROSS SECTIONS
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0372

ISO A1 594mm x 841mm

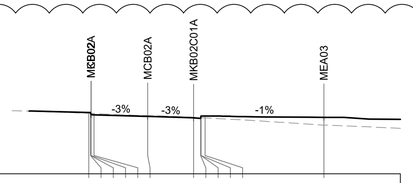
08



DATUM R.L 77.0

CUT STRINGS	IAL	EVL	CB1L	CT1L	C31L	CF1L	CE1B	L8R	CE2R	CF2R	C32R	CT2R	CB2R	E8R	E9R
DESIGN LEVELS	81.352	80.344	80.248	80.248	80.248	80.098	80.098	79.993	79.901	79.851	80.011	80.011	80.011	80.154	80.204
LEVEL DIFFERENCE	0.000	1.004	0.966	0.962	0.962	1.111	1.111	1.097	1.088	1.109	0.957	0.957	0.945	0.601	0.499
EXISTING SURFACE	81.352	81.348	81.214	81.210	81.210	81.208	81.208	81.090	80.990	80.970	80.968	80.968	80.956	80.755	80.703
DESIGN OFFSETS	-6.520	-4.000	-0.150	-0.030	-0.030	0.000	0.000	3.500	6.550	7.000	7.030	7.030	7.300	13.000	15.000

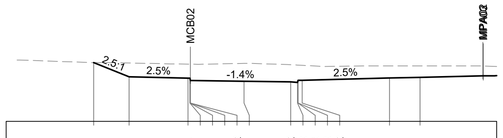
CH 40.000



DATUM R.L 75.0

CUT STRINGS	CBL	CTL	C3L	CFL	CER	LDB	CEL	CFL	C3L	CTL	CBL	EVL
DESIGN LEVELS	79.009	79.009	79.009	78.953	78.853	78.748	78.658	78.618	78.765	78.765	78.769	78.688
LEVEL DIFFERENCE	-0.056	-0.060	-0.060	-0.096	0.086	0.051	0.029	0.047	-0.105	-0.105	-0.119	-0.507
EXISTING SURFACE	78.954	78.949	78.949	78.949	78.939	78.799	78.687	78.665	78.664	78.664	78.650	78.182
DESIGN OFFSETS	-0.150	-0.030	-0.030	0.000	0.200	3.700	6.700	7.151	7.181	7.181	7.451	15.200

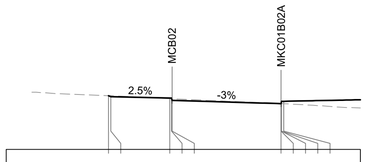
CH 95.688



DATUM R.L 78.0

CUT STRINGS	IAL	EVL	CB1L	CT1L	C31L	CF1L	CE1B	L8R	CE2R	CF2R	C32R	CT2R	CB2R	E8R	E9R
DESIGN LEVELS	81.837	80.911	80.815	80.815	80.815	80.665	80.665	80.617	80.575	80.535	80.685	80.685	80.685	80.828	80.878
LEVEL DIFFERENCE	0.000	0.902	0.922	0.921	0.921	1.070	1.070	1.169	1.126	1.147	0.990	0.990	0.976	0.797	0.745
EXISTING SURFACE	81.837	81.813	81.737	81.735	81.735	81.735	81.735	81.786	81.701	81.677	81.675	81.675	81.661	81.624	81.623
DESIGN OFFSETS	-6.316	-4.000	-0.150	-0.030	-0.030	0.000	0.000	3.500	6.550	7.000	7.030	7.030	7.300	13.000	15.000

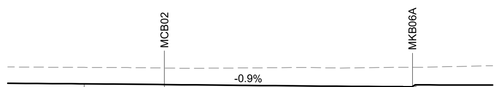
CH 20.000



DATUM R.L 76.0

CUT STRINGS	IAL	EVL	CB1L	CT1L	CFL	CEL	CFL	C3L	CTL	CBL
DESIGN LEVELS	79.511	79.452	79.356	79.356	79.206	78.992	78.992	79.137	79.137	79.142
LEVEL DIFFERENCE	0.000	0.053	-0.034	-0.040	0.108	0.009	0.009	-0.142	-0.142	-0.150
EXISTING SURFACE	79.511	79.505	79.322	79.316	79.314	79.001	79.001	79.000	79.000	78.992
DESIGN OFFSETS	-4.147	-4.000	-0.150	-0.030	0.000	7.117	7.117	7.147	7.147	7.294

CH 80.000



DATUM R.L 78.0

CUT STRINGS	LDR	CE1R	CF1R	C31R	CT1R	CB1R
DESIGN LEVELS	81.192	80.995	80.995	80.995	81.119	81.123
LEVEL DIFFERENCE	1.072	1.273	1.273	1.243	1.143	1.143
EXISTING SURFACE	82.264	82.267	82.267	82.267	82.267	82.267
DESIGN OFFSETS	-5.227	16.200	16.201	16.204	16.357	16.435

CH 0.000

DATUM R.L 77.0

CUT STRINGS	IAL	EVL	CB1L	CT1L	CF1L	L8R	CE2R	CF2R	C32R	CB2R	E8R	E9R
DESIGN LEVELS	80.427	79.894	79.798	79.798	79.648	79.543	79.451	79.411	79.561	79.561	79.704	79.754
LEVEL DIFFERENCE	0.000	0.503	0.494	0.490	0.639	0.581	0.565	0.587	0.436	0.426	0.027	-0.118
EXISTING SURFACE	80.427	80.397	80.292	80.287	80.286	80.124	80.016	79.999	79.997	79.987	79.731	79.636
DESIGN OFFSETS	-5.331	-4.000	-0.150	-0.030	0.000	3.500	6.550	7.000	7.030	7.300	13.000	15.000

CH 60.000

CROSS SECTION - MCB02

A1 HORIZONTAL SCALE 1:200

A1 VERTICAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AUSHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0373.DWG

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200 V=1:200

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

ROAD CONTROL
CROSS SECTIONS
SHEET 03

SHEET NUMBER

60646285-SHT-00-1000-CI-0373

ISO A1 594mm x 841mm

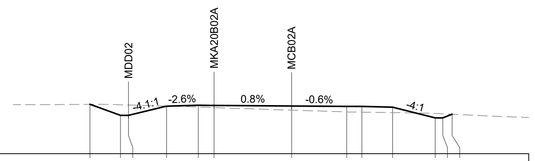
08

	IAL	DJL DKL	EVL	ESL CEL	LDB	CER ESR	EVR	DKR DJR	IAR
DATUM R.L 73.0									
CUT STRINGS									
DESIGN LEVELS	76.490	75.158 75.158	75.658	75.708 75.738	75.864	75.990 76.020	75.970	75.470 75.470	76.594
LEVEL DIFFERENCE	0.000	1.363 1.366	0.879	0.843 0.819	0.779	0.651 0.604	0.628	1.129 1.130	0.000
EXISTING SURFACE	76.490	76.521 76.524	76.537	76.550 76.557	76.643	76.641 76.624	76.598	76.599 76.600	76.594
DESIGN OFFSETS	-15.027	-9.700 -9.200	-7.200	-5.200 -4.200	0.000	4.200 5.200	7.200	9.200 9.700	12.510

CH 60.000

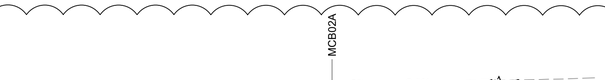
	IAL	DJL DKL	EVL	ESL CEL	LDB	CER ESR	EVR	DKR DJR IAR
DATUM R.L 72.0								
CUT STRINGS								
DESIGN LEVELS	75.930	74.788 74.788	75.300	75.350 75.377	75.490	75.603 75.630	75.580	75.065 75.065 75.325
LEVEL DIFFERENCE	0.000	1.124 1.116	0.542	0.429 0.370	0.111	-0.112 -0.164	-0.165	0.297 0.281 -0.000
EXISTING SURFACE	75.930	75.912 75.904	75.842	75.779 75.748	75.601	75.491 75.466	75.415	75.362 75.346 75.325
DESIGN OFFSETS	-14.269	-9.702 -9.202	-7.153	-5.153 -4.153	0.000	4.153 5.153	7.153	9.214 9.714 10.363

CH 40.000



	IAR	DJR DKL	EVL	ESL CEL	LDB	CER ESR	EVR	DKR DJR IAR
DATUM R.L 72.0								
CUT STRINGS								
DESIGN LEVELS	75.226	74.502 74.503	75.108	75.162 75.155	75.113	75.090 75.083	75.033	74.338 74.338 74.580
LEVEL DIFFERENCE	0.000	0.694 0.679	0.007	-0.112 -0.142	-0.270	-0.361 -0.370	-0.348	0.291 0.270 0.000
EXISTING SURFACE	75.226	75.197 75.183	75.115	75.050 75.013	74.843	74.729 74.714	74.685	74.629 74.607 74.580
DESIGN OFFSETS	-13.167	-11.170 -10.652	-8.169	-6.099 -5.064	0.000	3.593 4.593	6.593	9.375 9.875 10.482

CH 20.000

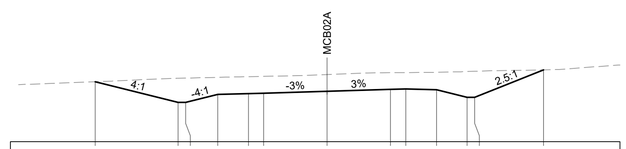


	IAL	DJL DKL	EVL	ESL CEL	LDB	CER ESR	EVR	DKR DJR	IAR
DATUM R.L 74.0									
CUT STRINGS									
DESIGN LEVELS	76.798	76.016 76.016	76.982	77.032 77.062	77.167	77.272 77.302	77.252	76.752 76.752	78.011
LEVEL DIFFERENCE	0.000	0.954 0.979	0.148	0.184 0.191	0.191	0.276 0.307	0.476	1.100 1.131	0.000
EXISTING SURFACE	76.798	76.971 76.995	77.130	77.216 77.253	77.359	77.548 77.610	77.728	77.852 77.883	78.011
DESIGN OFFSETS	-13.990	-10.865 -10.364	-6.500	-4.500 -3.500	0.000	3.500 4.500	6.500	8.500 9.000	12.146

CH 120.000

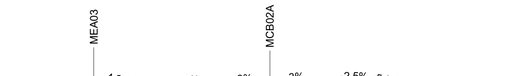
	IAL	DJL DKL	EVL	ESL CEL	LDB	CER ESR	EVR	DKR DJR	IAR
DATUM R.L 73.0									
CUT STRINGS									
DESIGN LEVELS	77.078	75.797 75.797	76.542	76.592 76.622	76.729	76.837 76.867	76.817	76.317 76.317	78.107
LEVEL DIFFERENCE	0.000	1.534 1.555	-0.933	0.976 0.993	1.017	1.028 1.040	1.176	1.722 1.722	0.000
EXISTING SURFACE	77.078	77.331 77.352	77.475	77.568 77.615	77.747	77.864 77.907	77.993	78.038 78.039	78.107
DESIGN OFFSETS	-15.185	-10.060 -9.560	-6.580	-4.580 -3.580	0.000	3.580 4.580	6.580	8.580 9.080	13.557

CH 100.000



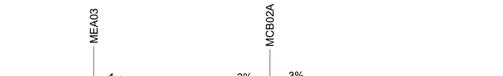
	IAL	DJL DKL	EVL	ESL CEL	LDB	CER ESR	EVR	DKR DJR	IAR
DATUM R.L 73.0									
CUT STRINGS									
DESIGN LEVELS	76.915	75.564 75.563	76.087	76.137 76.167	76.291	76.415 76.445	76.395	75.895 75.895	77.689
LEVEL DIFFERENCE	0.000	1.576 1.589	1.116	1.107 1.098	1.090	1.091 1.068	1.136	1.685 1.701	0.000
EXISTING SURFACE	76.915	77.140 77.152	77.203	77.244 77.265	77.381	77.507 77.513	77.532	77.580 77.596	77.689
DESIGN OFFSETS	-15.140	-9.735 -9.235	-7.140	-5.140 -4.140	0.000	4.140 5.140	7.140	9.140 9.640	14.125

CH 80.000



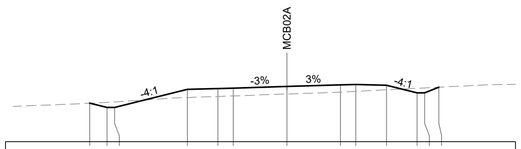
	EVL	DJL DKL	EVL	ESL CEL	LDB	CER ESR	EVR	DKR DJR IAR
DATUM R.L 75.0								
CUT STRINGS								
DESIGN LEVELS	78.697	78.070 78.070	78.296	78.346 78.376	78.481	78.586 78.616	78.566	78.184 78.184 78.684
LEVEL DIFFERENCE	-0.562	0.205 0.226	0.059	0.060 0.051	0.024	0.052 0.043	0.100	0.489 0.491 0.000
EXISTING SURFACE	78.135	78.275 78.296	78.355	78.406 78.428	78.505	78.638 78.659	78.666	78.673 78.675 78.684
DESIGN OFFSETS	-11.500	-8.400 -7.900	-6.500	-4.500 -3.500	0.000	3.500 4.500	6.500	8.500 9.000 10.250

CH 180.000



	EVL	DJL DKL	EVL	ESL CEL	LDB	CER ESR	EVR	DKR DJR IAR
DATUM R.L 75.0								
CUT STRINGS								
DESIGN LEVELS	78.259	77.508 77.508	77.858	77.908 77.938	78.043	78.148 78.178	78.128	77.628 77.628 77.963
LEVEL DIFFERENCE	-0.763	0.045 0.049	-0.292	-0.324 -0.338	-0.376	-0.388 -0.383	-0.256	0.321 0.334 0.000
EXISTING SURFACE	77.496	77.554 77.557	77.566	77.585 77.600	77.667	77.761 77.795	77.872	77.949 77.963 77.963
DESIGN OFFSETS	-11.500	-8.400 -7.900	-6.500	-4.500 -3.500	0.000	3.500 4.500	6.500	8.500 9.000 9.836

CH 160.000



	IAL	DJL DKL	EVL	ESL CEL	LDB	CER ESR	EVR	DKR DJR IAR
DATUM R.L 74.0								
CUT STRINGS								
DESIGN LEVELS	76.513	76.233 76.233	77.420	77.470 77.500	77.605	77.710 77.740	77.690	77.190 77.190 77.559
LEVEL DIFFERENCE	0.000	0.336 0.365	-0.532	-0.515 -0.511	-0.490	-0.471 -0.451	-0.300	0.298 0.323 0.000
EXISTING SURFACE	76.513	76.569 76.598	76.888	76.956 76.988	77.115	77.239 77.289	77.390	77.488 77.513 77.559
DESIGN OFFSETS	-12.870	-11.750 -11.249	-6.500	-4.500 -3.500	0.000	3.500 4.500	6.500	8.500 9.000 9.923

CH 140.000

CROSS SECTION - MCB02A

A1 HORIZONTAL SCALE 1:200

A1 VERTICAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AU\SHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0374.DWG

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AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200 V=1:200

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

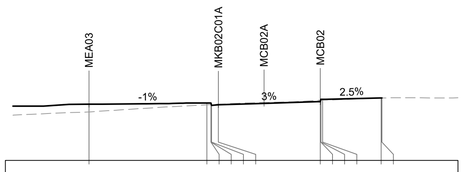
ROAD CONTROL
CROSS SECTIONS
SHEET 04

SHEET NUMBER

60646285-SHT-00-1000-CI-0374

ISO A1 594mm x 841mm

08



	MEA03	MKB02C01A	MCB02A	MCB02	
DATUM R.L 75.0					
CUT STRINGS	EVL	CBL CTL CTL CBL CFL CEL		CE1L CS1L CT1L CBL	EVL IAL
DESIGN LEVELS	78.688	78.768 78.795 78.764 78.619 78.658		78.859 79.009 79.009 79.009	79.105 79.095
LEVEL DIFFERENCE	-0.507	-0.119 -0.105 -0.105 0.047 0.029		0.089 -0.060 -0.060 -0.058	-0.012 0.000
EXISTING SURFACE	78.182	78.650 78.664 78.664 78.665 78.687		78.948 78.949 78.949 78.954	79.094 79.095
DESIGN OFFSETS	-11.500	-3.751 -3.481 -3.481 -3.451 -3.000		3.700 3.730 3.730 3.850	7.700 7.743

CH 192.188

CROSS SECTION - MCB02A

A1 HORIZONTAL SCALE 1:200

A1 VERTICAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AUSHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0375.DWG

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AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200 V=1:200

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

ROAD CONTROL
CROSS SECTIONS
SHEET 05

SHEET NUMBER

60646285-SHT-00-1000-CI-0375

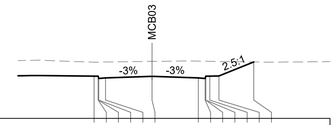
ISO A1 594mm x 841mm

08

DATUM R.L 78.0

CUT STRINGS	E9L	E8L	CB1L	CT1L	C31L	CF1L	CE1L	LDR	CE1R	CF1R	C31R	CT1R	CB1R	EVR	IAR								
DESIGN LEVELS	80.991	80.941	80.743	80.743	80.743	80.593	80.633	80.725	80.633	80.593	80.743	80.743	80.743	80.758	81.247								
LEVEL DIFFERENCE	0.081	0.161	0.477	0.481	0.481	0.632	0.669	0.542	0.624	0.662	0.512	0.512	0.511	0.493	0.000								
EXISTING SURFACE	81.072	81.102	81.221	81.225	81.225	81.225	81.302	81.267	81.258	81.256	81.255	81.255	81.254	81.251	81.247								
DESIGN OFFSETS	-13.700	-11.700	-3.800	-3.530	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.530	3.800	4.400	5.622								

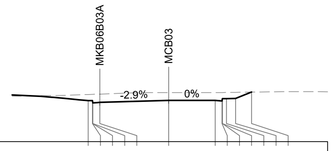
CH 40.000



DATUM R.L 75.0

CUT STRINGS	CB1L	CT1L	C31L	CF1L	CE1L	LDR	CE1R	CF1R	C31R	CT1R	CB1R	EVR	IAR										
DESIGN LEVELS	77.773	77.773	77.773	77.623	77.663	77.755	77.663	77.623	77.773	77.773	77.773	77.773	77.786	78.706									
LEVEL DIFFERENCE	0.922	0.925	0.925	1.076	1.042	0.988	1.095	1.129	0.979	0.979	0.975	0.975	0.951	0.000									
EXISTING SURFACE	78.695	78.698	78.698	78.699	78.705	78.743	78.759	78.752	78.752	78.752	78.748	78.748	78.737	78.706									
DESIGN OFFSETS	-3.800	-3.530	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.530	3.800	4.400	6.694										

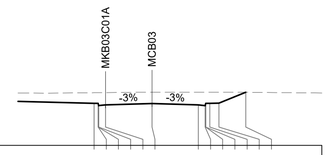
CH 100.000



DATUM R.L 79.0

CUT STRINGS	CBL	CTL	C3L	CFL	CEL	LDR	CE1R	CF1R	C31R	CT1R	CB1R	EVR	IAR										
DESIGN LEVELS	81.702	81.698	81.697	81.549	81.584	81.715	81.715	81.675	81.825	81.825	81.825	81.840	82.259										
LEVEL DIFFERENCE	0.401	0.414	0.414	0.565	0.547	0.513	0.514	0.557	0.408	0.408	0.411	0.405	0.000										
EXISTING SURFACE	82.103	82.113	82.113	82.114	82.131	82.228	82.229	82.232	82.233	82.233	82.236	82.245	82.259										
DESIGN OFFSETS	-5.289	-5.014	-5.014	-4.983	-4.525	0.000	3.050	3.500	3.530	3.530	3.800	4.400	5.447										

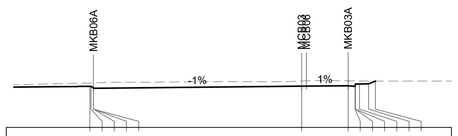
CH 20.000



DATUM R.L 76.0

CUT STRINGS	CBL	CTL	C3L	CFL	CEL	LDR	CE1R	CF1R	C31R	CT1R	CB1R	EVR	IAR										
DESIGN LEVELS	78.763	78.759	78.749	78.613	78.653	78.745	78.653	78.613	78.763	78.763	78.753	78.778	79.484										
LEVEL DIFFERENCE	0.695	0.697	0.697	0.848	0.812	0.739	0.837	0.878	0.728	0.728	0.729	0.715	0.000										
EXISTING SURFACE	79.458	79.461	79.461	79.461	79.465	79.484	79.490	79.491	79.491	79.491	79.492	79.493	79.484										
DESIGN OFFSETS	-3.800	-3.530	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.530	3.800	4.400	6.164										

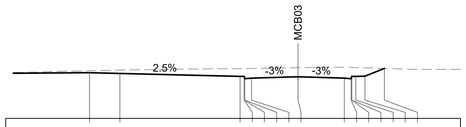
CH 80.000



DATUM R.L 80.0

CUT STRINGS	CB1R	CT1R	C31R	CF1R	CE1R	LDR	CE8R	CF8R	C38R	CT8R	CB8R	EVR	IAL										
DESIGN LEVELS	82.697	82.697	82.587	82.567	82.567	82.705	82.735	82.695	82.845	82.845	82.845	82.860	83.038										
LEVEL DIFFERENCE	0.219	0.221	0.327	0.357	0.357	0.331	0.321	0.356	0.206	0.206	0.203	0.182	0.000										
EXISTING SURFACE	82.916	82.918	82.924	82.924	82.924	83.036	83.056	83.052	83.051	83.051	83.049	83.042	83.038										
DESIGN OFFSETS	-13.914	-13.839	-13.689	-13.686	-13.686	0.000	3.050	3.500	3.530	3.530	3.800	4.400	4.843										

CH 0.000



DATUM R.L 77.0

CUT STRINGS	E9L	E8L	CB1L	CT1L	C31L	CF1L	CE1L	LDR	CE1R	CF1R	C31R	CT1R	CB1R	EVR	IAR								
DESIGN LEVELS	80.001	79.951	79.753	79.753	79.753	79.603	79.643	79.735	79.643	79.603	79.753	79.753	79.753	79.768	80.280								
LEVEL DIFFERENCE	0.127	0.218	0.516	0.520	0.520	0.670	0.636	0.594	0.719	0.745	0.594	0.594	0.595	0.582	0.000								
EXISTING SURFACE	80.128	80.169	80.270	80.271	80.273	80.274	80.279	80.329	80.362	80.348	80.347	80.347	80.348	80.350	80.280								
DESIGN OFFSETS	-13.700	-11.700	-3.800	-3.530	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.530	3.800	4.400	5.679								

CH 60.000

CROSS SECTION - MCB03

A1 HORIZONTAL SCALE 1:200

A1 VERTICAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
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AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200 V=1:200

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

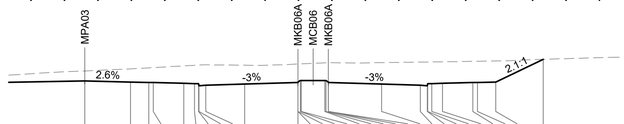
ROAD CONTROL
CROSS SECTIONS
SHEET 06

SHEET NUMBER

60646285-SHT-00-1000-CI-0376

ISO A1 594mm x 841mm

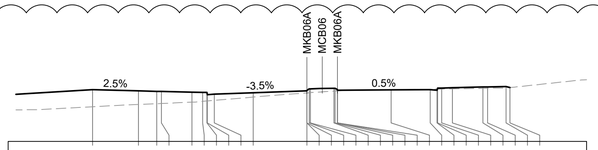
08



DATUM R.L 78.0

| | | |

08



DATUM R.L 79.0

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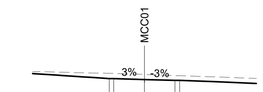
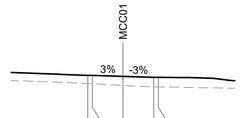
ISO A1 594mm x 841mm

08



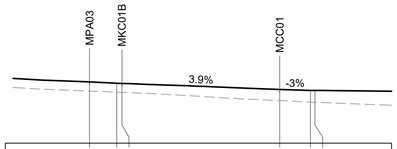
DATUM R.L 75.0						
CUT STRINGS	CBL CEL				CER CBR	
DESIGN LEVELS	77.965 77.965	77.906	77.846 77.846			
LEVEL DIFFERENCE	0.349 0.344	0.328	0.317 0.307			
EXISTING SURFACE	78.315 78.310	78.234	78.163 78.153			
DESIGN OFFSETS	-2.300 -2.000	0.000	2.000 2.300			

CH 40.000



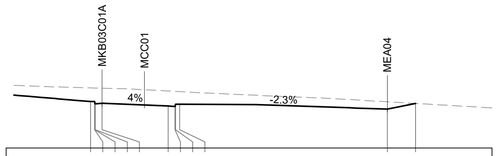
DATUM R.L 75.0						
CUT STRINGS	CBL CEL				CER CBR	
DESIGN LEVELS	78.277 78.277	78.217	78.156 78.156			
LEVEL DIFFERENCE	-0.527 -0.543	-0.592	-0.624 -0.629			
EXISTING SURFACE	77.750 77.734	77.625	77.532 77.527			
DESIGN OFFSETS	-2.300 -2.000	0.000	2.000 2.300			

CH 100.000



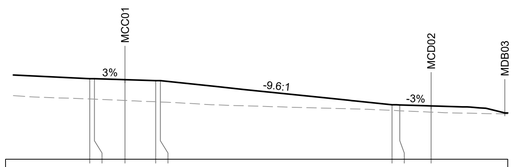
DATUM R.L 75.0						
CUT STRINGS		CBL CEL			CER CBR	
DESIGN LEVELS	79.003	78.906 78.903		78.503	78.443 78.443	
LEVEL DIFFERENCE	-0.598	-0.571 -0.582		-0.726	-0.761 -0.772	
EXISTING SURFACE	78.405	78.335 78.320		77.777	77.682 77.671	
DESIGN OFFSETS	-12.416	-10.647 -10.306		0.000	2.000 2.300	

CH 160.000



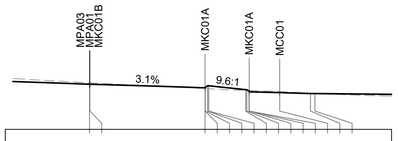
DATUM R.L 75.0								
CUT STRINGS	CBL	CTL	C3L	CFL	CER	CFR	C3R	CBR	EVR	IAR
DESIGN LEVELS	78.031	78.024	78.023	77.881	77.921	77.747	77.707	77.857	77.857	77.541	77.911
LEVEL DIFFERENCE	0.892	0.886	0.886	1.035	0.984	0.978	0.992	0.840	0.824	0.475	-0.002
EXISTING SURFACE	78.924	78.917	78.917	78.916	78.905	78.725	78.698	78.697	78.681	78.016	77.910
DESIGN OFFSETS	-3.523 -3.249 -3.249 -3.218 -2.761					1.550 2.000 2.030 2.300				15.859	17.699

CH 20.000



DATUM R.L 73.0								
CUT STRINGS	CBL CEL			CER CBR		EVR CER		
DESIGN LEVELS	78.253 78.253	78.193	78.132 78.132			76.558 76.542	76.480	
LEVEL DIFFERENCE	-1.322 -1.333	-1.359	-1.381 -1.393			-0.369 -0.377	-0.408	
EXISTING SURFACE	76.931 76.920	76.833	76.752 76.740			76.189 76.166	76.072	
DESIGN OFFSETS	-2.300 -2.000	0.000	2.000 2.300			17.431 17.942	19.989	

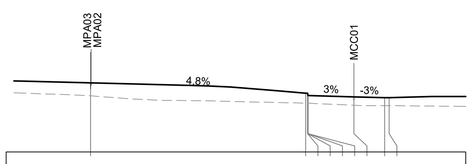
CH 80.000



| | | | | | | | |

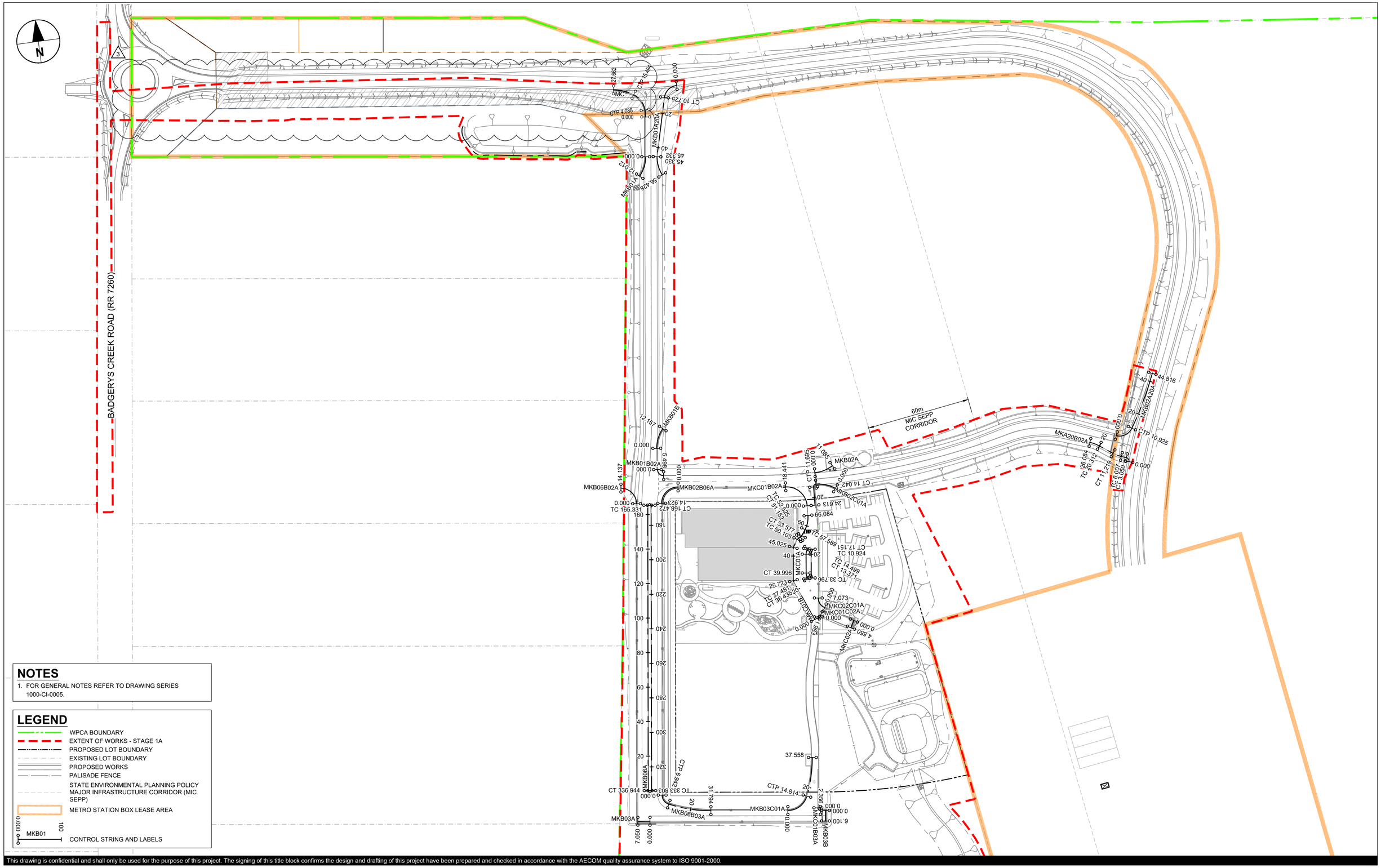
ISO A1 594mm x 841mm

07



| | | |

ISO A1 594mm x 841mm



NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED WORKS
- PALISADE FENCE
- STATE ENVIRONMENTAL PLANNING POLICY MAJOR INFRASTRUCTURE CORRIDOR (MIC SEPP)
- METRO STATION BOX LEASE AREA
- MKB01 — 0.000 / 100 — CONTROL STRING AND LABELS

Last saved by: SHION.WATAKABE(2023-11-10) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AU\SHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0401.DWG

This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001-2000.

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CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 25 50 m
1:1000

RESTRICTION OF DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	08.11.23	FOR APPROVAL
2	15.08.23	ISSUED FOR CONSTRUCTION
1	15.08.23	ISSUED FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

KERB CONTROL PLAN

SHEET NUMBER

60646285-SHT-00-1000-CI-0401

ISO A1 594mm x 841mm

MODEL : CONTROL 0500 KERBS - STRING : MKB01B02A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290443.371	6244329.250	81.078	187°41'46.19"	ARC
End	5.498	290446.371	6244325.313	80.964	97°41'46.08"	

MODEL : CONTROL 0500 KERBS - STRING : MKB01A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290461.157	6244509.772	80.704	187°41'46.19"	ARC
End	12.012	290456.175	6244499.040	80.409	222°06'27.80"	

MODEL : CONTROL 0500 KERBS - STRING : MKB02B06A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290453.769	6244317.704	80.710	277°41'46.13"	ARC
End	14.923	290443.082	6244309.562	80.836	187°41'46.08"	

MODEL : CONTROL 0500 KERBS - STRING : MKB06A (CLOSED)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290412.813	6244145.679	82.608	7°41'46.08"	LINE		
TC	165.331	290434.953	6244309.520	81.007	7°41'46.08"	ARC	1.000	3.142
CT	168.472	290436.935	6244309.252	80.982	187°41'46.08"	LINE		165.331
TC	333.803	290414.795	6244145.411	82.509	187°41'46.08"	ARC	1.000	3.142
End	336.944	290412.813	6244145.679	82.608	7°41'46.08"			

MODEL : CONTROL 0500 KERBS - STRING : MKB06B03A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290420.443	6244142.034	82.235	187°41'46.08"	ARC		
CC	6.942	290423.536	6244136.329	82.097	115°22'53.62"	ARC	-80.500	24.852
End	31.794	290447.266	6244129.283	80.864	97°41'34.93"			

MODEL : CONTROL 0500 KERBS - STRING : MKB01A20A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290463.203	6244524.908	81.036	7°41'46.19"	ARC		
CC	17.323	290454.739	6244538.450	81.110	288°17'41.27"	ARC	-120.500	18.948
CT	36.271	290436.356	6244542.962	81.153	279°17'06.86"	LINE		70.053
TC	106.324	290367.221	6244554.265	81.767	279°17'06.86"	ARC	-587.000	22.831
CT	129.155	290344.623	6244557.510	82.470	277°03'24.34"	LINE		87.129
TC	216.284	290258.153	6244568.214	84.985	277°03'24.34"	ARC	199.500	47.958
CC	264.243	290211.720	6244579.742	86.419	290°49'48.66"	ARC	-30.500	24.930
End	289.172	290187.504	6244578.648	86.290	243°59'54.92"			

MODEL : CONTROL 0500 KERBS - STRING : MKC01B02A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290526.461	6244296.718	78.695	3°09'06.56"	ARC
End	18.441	290515.547	6244309.330	79.032	275°06'03.54"	

MODEL : CONTROL 0500 KERBS - STRING : MKB02A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290533.434	6244315.130	78.859	92°36'49.16"	ARC
End	11.085	290544.050	6244317.746	78.597	59°42'19.82"	

MODEL : CONTROL 0500 KERBS - STRING : MKB02C01A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290544.020	6244304.573	78.325	306°19'38.06"	ARC		
CC	11.695	290533.157	6244308.436	78.657	272°49'26.19"	ARC	-1.500	2.348
CT	14.042	290531.586	6244307.020	78.649	183°09'06.56"	LINE		10.570
End	24.613	290531.004	6244296.466	78.558	183°09'06.56"			

MODEL : CONTROL 0500 KERBS - STRING : MKB03C01A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290491.441	6244123.316	78.658	97°41'34.93"	ARC		
CC	14.814	290503.496	6244130.056	77.997	23°53'02.42"	ARC	-80.500	22.744
End	37.558	290509.664	6244151.869	77.921	7°41'46.02"			

MODEL : CONTROL 0500 KERBS - STRING : MKC01B03A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290508.821	6244122.482	77.757	187°41'46.02"	ARC
End	2.356	290510.106	6244120.794	77.725	97°41'34.93"	

MODEL : CONTROL 0500 KERBS - STRING : MKB02A20A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290709.370	6244312.675	74.929	111°17'21.36"	ARC		
CC	10.925	290718.980	6244315.767	74.529	33°02'37.50"	ARC	-200.000	33.891
End	44.816	290734.971	6244345.602	73.952	23°20'04.76"			

MODEL : CONTROL 0500 KERBS - STRING : MKA20B02A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290714.636	6244296.768	74.790	18°40'43.20"	ARC		
CT	3.050	290713.467	6244299.272	74.826	291°17'21.36"	LINE		2.957
TC	6.007	290710.713	6244300.346	74.910	291°17'21.36"	ARC	20.000	5.212
CT	11.219	290706.156	6244302.846	75.038	306°13'16.14"	LINE		9.093
TC	20.312	290698.820	6244308.219	75.179	306°13'16.14"	ARC	-20.000	5.772
End	26.084	290693.739	6244310.915	75.246	289°41'07.31"			

MODEL : CONTROL 0500 KERBS - STRING : MKB03A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290411.428	6244127.969	82.736	277°41'34.93"	LINE
End	7.050	290404.442	6244128.912	83.084	277°41'34.93"	

MODEL : CONTROL 0500 KERBS - STRING : MKB03B

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290513.038	6244120.398	77.579	187°41'39.36"	LINE
End	6.100	290512.221	6244114.353	77.579	187°41'39.36"	

MODEL : CONTROL 0500 KERBS - STRING : MKC01A (CLOSED)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290520.552	6244258.203	78.758	7°41'46.68"	LINE		
TC	10.924	290522.015	6244269.029	78.778	7°41'46.68"	ARC	5.000	2.447
CT	13.371	290522.912	6244271.280	78.744	35°44'26.95"	LINE		1.128
TC	14.499	290523.571	6244272.195	78.680	35°44'26.95"	ARC	1.000	2.652
CT	17.151	290525.373	6244271.477	78.544	187°41'46.17"	LINE		16.645
TC	33.796	290523.144	6244254.982	78.468	187°41'46.17"	ARC	1.000	2.639
CT	36.435	290521.220	6244254.756	78.592	338°52'32.56"	LINE		1.047
TC	37.481	290520.843	6244255.732	78.647	338°52'32.56"	ARC	5.000	2.515
End	39.996	290520.552	6244258.203	78.758	7°41'46.68"			

MODEL : CONTROL 0500 KERBS - STRING : MKC01B

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290521.896	6244230.809	78.274	338°52'32.56"	LINE		
Point	25.723	290512.626	6244254.804	78.895	7°41'46.68"	LINE		19.302
Point	45.025	290515.210	6244273.932	79.000	35°44'26.95"	LINE		5.080
TC	50.105	290518.178	6244278.055	78.889	35°44'26.95"	ARC	2.000	1.047
CT	51.152	290518.979	6244278.710	78.865	65°44'11.66"	LINE		1.373
TC	52.525	290520.231	6244279.274	78.834	65°44'11.66"	ARC	-2.000	1.052
CT	53.577	290521.036	6244279.933	78.811	35°36'09.23"	LINE		4.012
TC	57.589	290523.371	6244283.195	78.721	35°36'09.23"	ARC	-15.000	8.496
End	66.084	290526.152	6244291.103	78.666	3°09'06.56"			

MODEL : CONTROL 0500 KERBS - STRING : MKC01C02A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290524.085	6244232.074	78.221	7°41'46.17"	ARC
End	1.963	290525.578	6244232.805	78.155	120°09'04.66"	

MODEL : CONTROL 0500 KERBS - STRING : MKC02C01A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290528.479	6244236.902	78.166	300°09'04.66"	ARC
End	7.073	290525.547	6244242.894	78.276	7°41'46.17"	

MODEL : CONTROL 0500 KERBS - STRING : MKC02A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290544.255	6244227.218	77.839	210°09'04.65"	LINE
End	4.550	290541.970	6244223.284	77.975	210°09'04.65"	

MODEL : CONTROL 0500 KERBS - STRING : MKB01B

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290444.573	6244341.500	81.265	7°41'46.19"	ARC
End	12.157	290449.576	6244352.384	81.441	41°40'23.23"	

MODEL : CONTROL 0500 KERBS - STRING : MKB06B02A

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG
Start	0.000	290428.643	6244311.361	81.012	7°41'46.08"	ARC
End	14.137	290420.930	6244321.486	81.448	277°41'46.11"	

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	08.11.23	FOR APPROVAL
1	15.08.23	ISSUED FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

KERB CONTROL
SET-OUT TABLES

SHEET NUMBER

60646285-SHT-00-1000-CI-0421

ISO A1 594mm x 841mm

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2

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	08.11.23	FOR APPROVAL
1	15.08.23	ISSUED FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-CI-0441

ISO A1 594mm x 841mm

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2

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	08.11.23	FOR APPROVAL
1	15.08.23	ISSUED FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0442

ISO A1 594mm x 841mm

Last saved by: SHION.WATAKABE(2023-11-08) Last Plotted: 2023-11-16
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CONSULTANT

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www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	08.11.23	FOR APPROVAL
1	15.08.23	ISSUED FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 03

SHEET NUMBER

60646285-SHT-00-1000-CI-0443

ISO A1 594mm x 841mm

Last saved by: SHION.WATAKABE(2023-11-08) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AU\SHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0444.DWG

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	08.11.23	FOR APPROVAL
1	15.08.23	ISSUED FOR CONSTRUCTION

PROJECT NUMBER

60646285

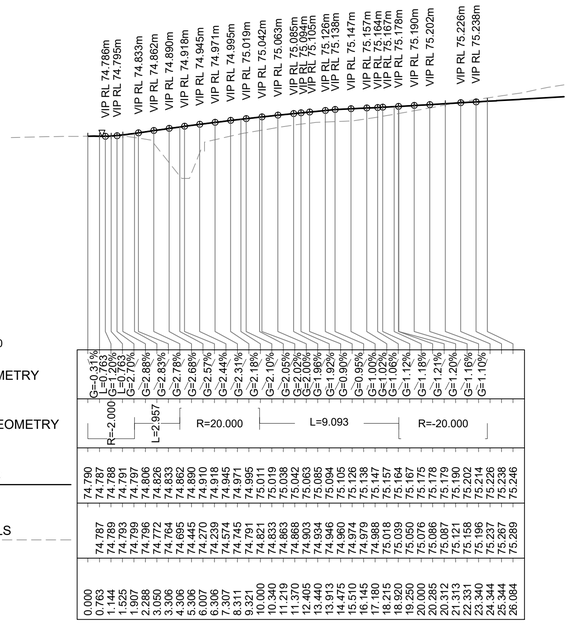
SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 04

SHEET NUMBER

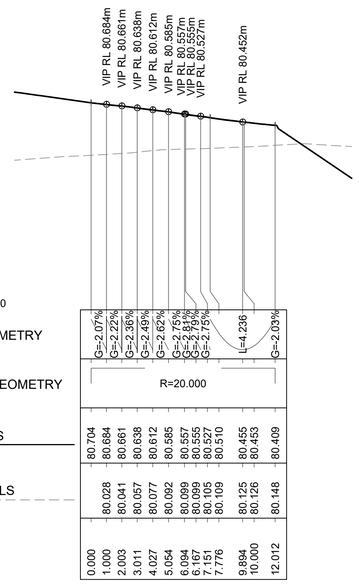
60646285-SHT-00-1000-CI-0444

ISO A1 594mm x 841mm



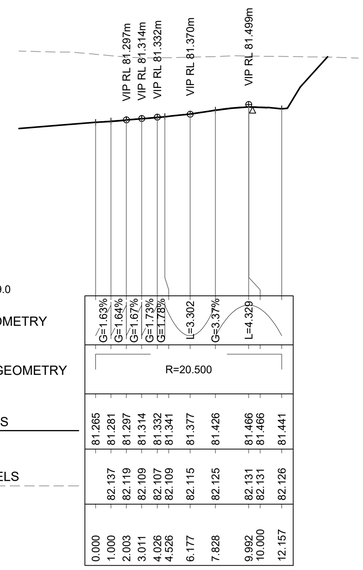
LONGITUDINAL SECTION - MKA20B02A - EDGE OF BITUMEN

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200



LONGITUDINAL SECTION - MKB01A - KERB AND GUTTER

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200



LONGITUDINAL SECTION - MKB01B - KERB AND GUTTER

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-11-08) Last Plotted: 2023-11-16
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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200 V=1:40
0 1 2

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.08.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

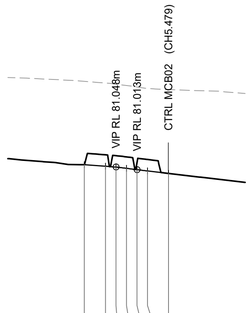
SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 05

SHEET NUMBER

60646285-SHT-00-1000-CI-0445

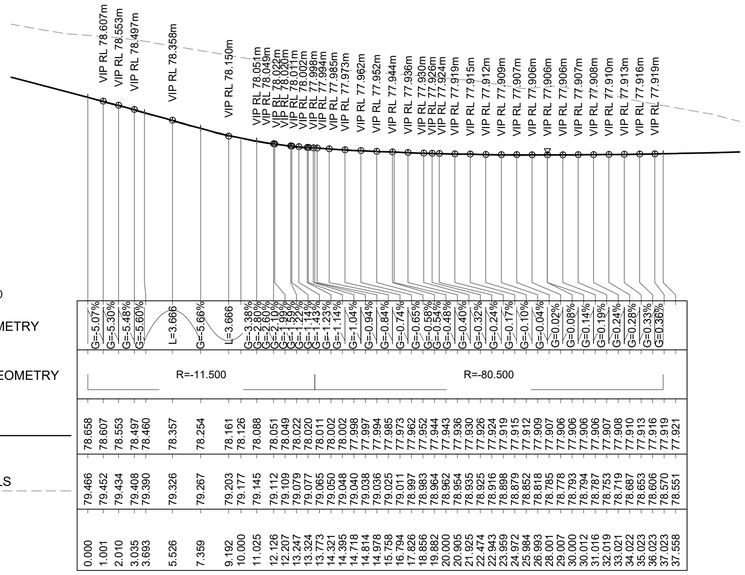
ISO A1 594mm x 841mm



DATUM R.L (m) 79.0

| | | |

ISO A1 594mm x 841mm



LONGITUDINAL SECTION - MKB03C01A - KERB AND GUTTER

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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CLIENT

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SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.08.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

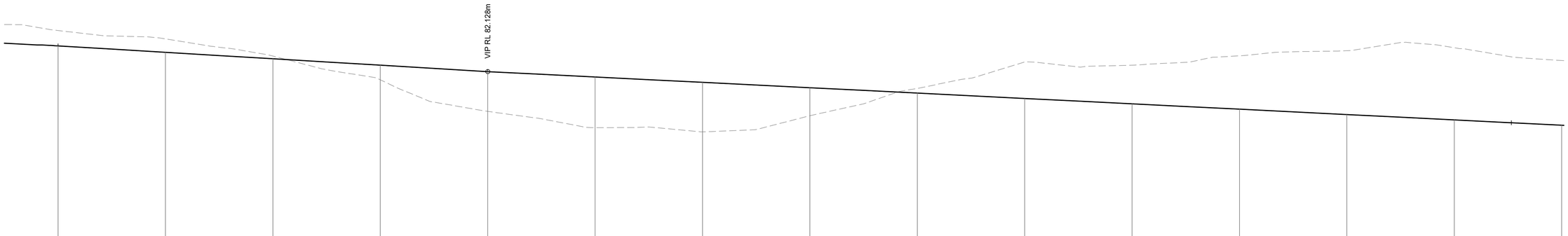
SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 07

SHEET NUMBER

60646285-SHT-00-1000-CI-0447

ISO A1 594mm x 841mm



DATUM R.L (m) 79.0

VERTICAL GEOMETRY: G=-1.00%

HORIZONTAL GEOMETRY: L=165.331

CHAINAGE	DESIGN LEVELS	EXISTING LEVELS
0.000	82.608	
10.000	82.488	82.738
20.000	82.368	82.419
30.000	82.248	81.975
40.000	82.128	81.387
50.000	82.028	81.083
60.000	81.928	81.006
70.000	81.828	81.306
80.000	81.728	81.814
90.000	81.628	82.308
100.000	81.528	82.247
110.000	81.428	82.422
120.000	81.328	82.518
130.000	81.228	82.573
140.000	81.128	82.335

LONGITUDINAL SECTION - MKB06A - MEDIAN KERB

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.08.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

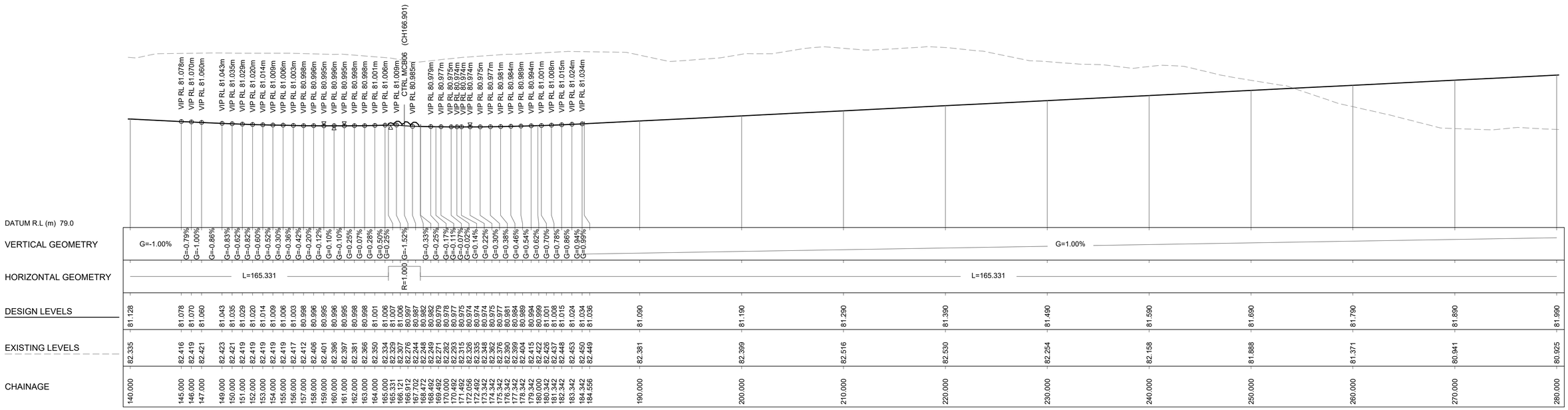
SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 08

SHEET NUMBER

60646285-SHT-00-1000-CI-0448

ISO A1 594mm x 841mm



LONGITUDINAL SECTION - MKB06A - MEDIAN KERB

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.08.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

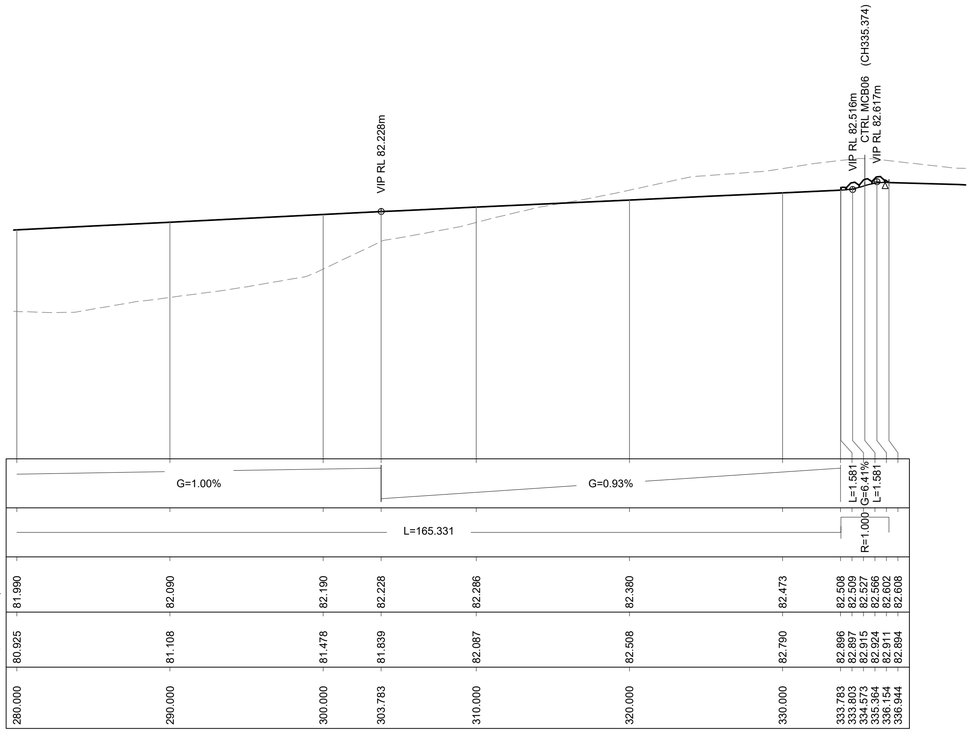
SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 09

SHEET NUMBER

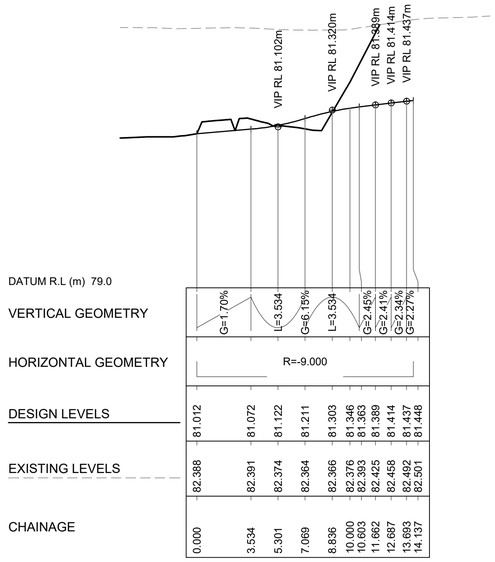
60646285-SHT-00-1000-CI-0449

ISO A1 594mm x 841mm



LONGITUDINAL SECTION - MKB06A - MEDIAN KERB

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200



LONGITUDINAL SECTION - MKB06B02A - KERB ONLY

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-11-08) Last Plotted: 2023-11-16
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PROJECT

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CORE PRECINCT
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CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.08.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

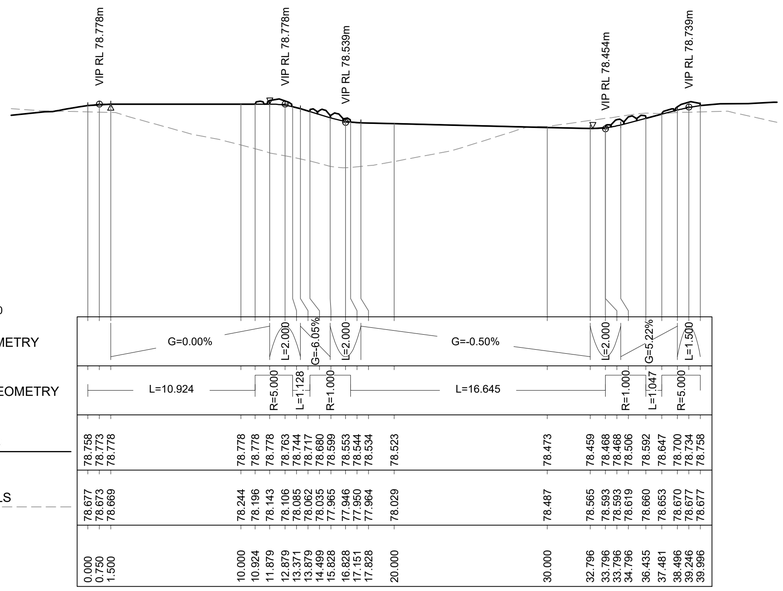
SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 10

SHEET NUMBER

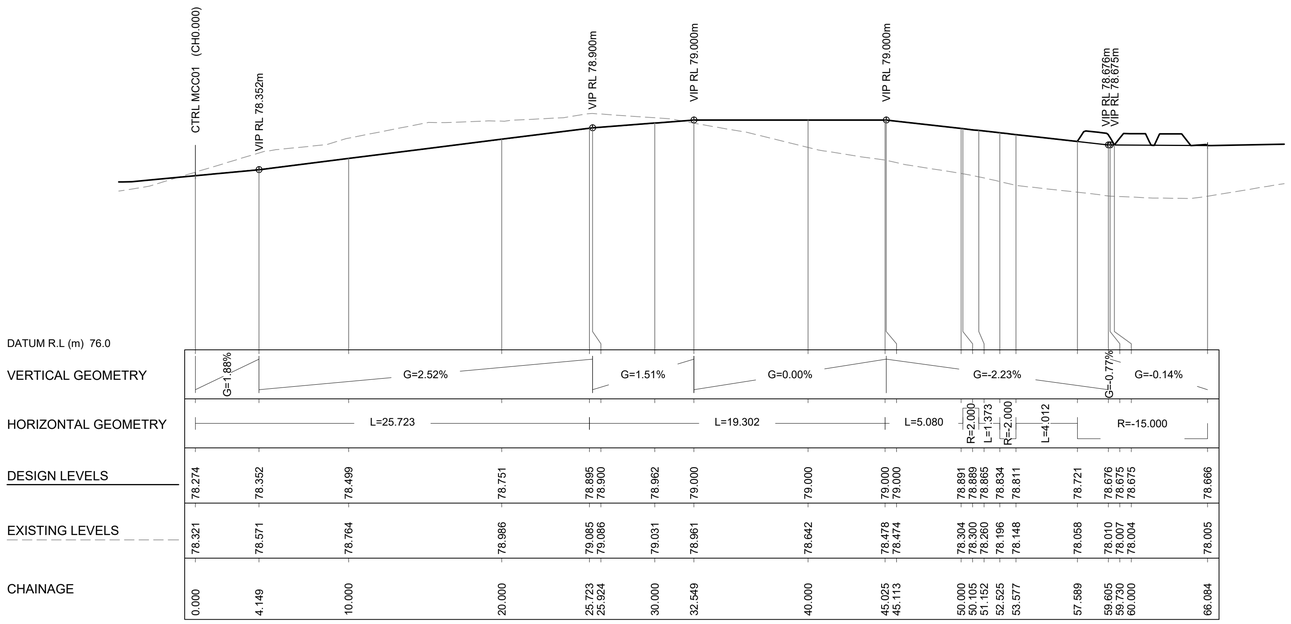
60646285-SHT-00-1000-CI-0450

ISO A1 594mm x 841mm



LONGITUDINAL SECTION - MKC01A - MEDIAN KERB

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200



LONGITUDINAL SECTION - MKC01B - EDGE STRIP

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AUSHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0451.DWG

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PROJECT

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CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.08.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

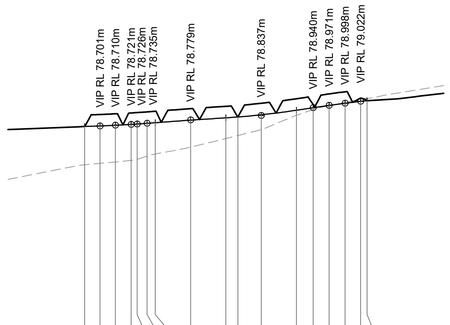
SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 11

SHEET NUMBER

60646285-SHT-00-1000-CI-0451

ISO A1 594mm x 841mm



DATUM R.L (m) 76.0

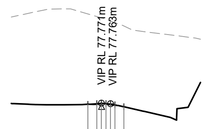
VERTICAL GEOMETRY: G=0.62% G=0.87% G=1.11% G=1.26% G=1.46% G=1.53% L=4.610 G=1.26% L=4.610 G=3.06% G=2.86% G=2.64% G=2.40% G=2.23%

HORIZONTAL GEOMETRY: R=-12.000

DESIGN LEVELS	EXISTING LEVELS	CHAINAGE
78.695		0.000
78.701	78.211	1.001
78.710	78.230	2.009
78.721	78.251	3.032
78.726	78.265	3.429
78.735	78.309	4.078
78.743	78.336	4.610
78.777	78.425	6.916
78.808	78.537	9.221
78.819	78.577	10.000
78.847	78.653	11.526
78.907	78.843	13.831
78.940	78.917	14.915
78.971	78.969	15.969
78.998	79.009	17.001
79.022	79.045	18.022
79.032	79.058	18.441

LONGITUDINAL SECTION - MKC01B02A - KERB ONLY

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200



DATUM R.L (m) 76.0

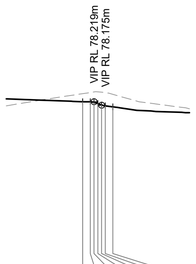
VERTICAL GEOMETRY: G=1.59% G=1.47% G=0.589% G=4.24%

HORIZONTAL GEOMETRY: R=-1.500

DESIGN LEVELS	EXISTING LEVELS	CHAINAGE
77.757		0.000
77.767	78.936	0.589
77.769	78.906	0.884
77.767	78.887	1.173
77.761	78.866	1.473
77.750	78.844	1.767
77.725	78.823	2.356
	78.779	

LONGITUDINAL SECTION - MKC01B03A KERB AND GUTTER

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200



DATUM R.L (m) 76.0

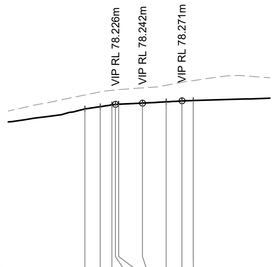
VERTICAL GEOMETRY: G=0.24% L=0.491 G=0.094 L=0.491 G=2.73%

HORIZONTAL GEOMETRY: R=1.000

DESIGN LEVELS	EXISTING LEVELS	CHAINAGE
78.221		0.000
78.220	78.328	0.491
78.219	78.347	0.736
78.214	78.352	0.982
78.197	78.351	1.227
78.179	78.344	1.472
78.168	78.318	1.963
78.155		

LONGITUDINAL SECTION - MKC01C02A - KERB ONLY

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200



DATUM R.L (m) 76.0

VERTICAL GEOMETRY: G=2.99% G=3.00% L=0.442 G=0.91% L=3.095 G=1.11% G=0.68%

HORIZONTAL GEOMETRY: R=6.000

DESIGN LEVELS	EXISTING LEVELS	CHAINAGE
78.166		0.000
78.197	78.349	1.005
78.219	78.391	1.768
78.225	78.410	1.989
78.229	78.414	2.103
78.243	78.443	3.758
78.259	78.477	5.305
78.271	78.515	6.329
78.276	78.537	7.073

LONGITUDINAL SECTION - MKC02C01A - KERB ONLY

A1 VERTICAL SCALE 1:40
A1 HORIZONTAL SCALE 1:200

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200
0 1 2 V=1:40

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.08.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

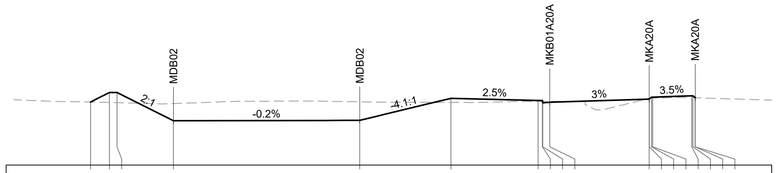
SHEET TITLE

KERB CONTROL
LONGITUDINAL SECTIONS
SHEET 12

SHEET NUMBER

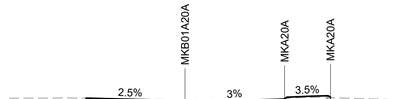
60646285-SHT-00-1000-CI-0452

ISO A1 594mm x 841mm



DATUM R.L 77.0

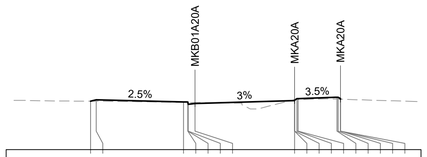
| | | |



DATUM R.L 82.0

CUT STRINGS	IAL	EVL	CBL	CTL	C3L	CFL	CEER	CE1L	CF1L	C31L	CT1L	CB1L	CT1L	C31L	CF1L	CE1L
DESIGN LEVELS	84.858	84.853	84.711	84.711	84.711	84.561	84.601	84.796	84.796	84.826	84.926	84.976	85.016	84.916	84.886	84.886
LEVEL DIFFERENCE	0.000	0.004	0.064	0.058	0.058	0.207	0.156	0.059	0.059	0.029	-0.067	-0.065	-0.127	-0.031	-0.001	-0.001
EXISTING SURFACE	84.858	84.858	84.775	84.768	84.768	84.768	84.757	84.854	84.854	84.854	84.859	84.911	84.889	84.884	84.884	84.884
DESIGN OFFSETS	-6.468	-6.450	-0.750	-0.480	-0.480	-0.450	0.000	6.500	6.500	6.503	6.653	6.728	9.272	9.347	9.500	9.500

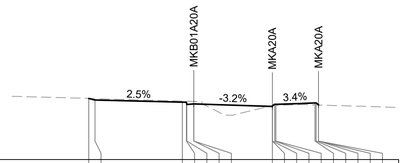
CH 200.000



DATUM R.L 81.0

CUT STRINGS	IAL	EVL	CBL	CTL	C3L	CFL	CEER	CE1L	CF1L	C31L	CT1L	CB1L	CT1L	C31L	CF1L	CE1L
DESIGN LEVELS	84.159	84.254	84.112	84.112	84.112	83.962	84.002	84.197	84.197	84.227	84.327	84.377	84.417	84.317	84.287	84.287
LEVEL DIFFERENCE	0.000	-0.097	-0.030	-0.034	-0.034	0.116	0.069	0.060	0.060	0.030	-0.065	-0.065	-0.125	-0.030	0.000	-0.000
EXISTING SURFACE	84.159	84.157	84.082	84.078	84.078	84.077	84.071	84.257	84.257	84.257	84.261	84.294	84.291	84.287	84.287	84.287
DESIGN OFFSETS	-6.830	-6.450	-0.750	-0.480	-0.480	-0.450	0.000	6.500	6.500	6.503	6.653	6.728	9.272	9.347	9.500	9.500

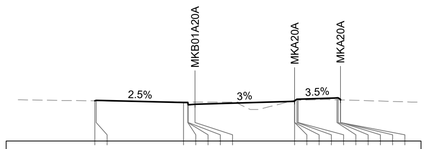
CH 180.000



DATUM R.L 82.0

CUT STRINGS	IAL	EVL	CBL	CTL	CFL	CEL	CE2R	CE1L	CF1L	C31L	CT1L	CB1L	CB1L	CT1L	C31L	CF1L	CE1L
DESIGN LEVELS	85.983	85.881	85.738	85.738	85.588	85.628	85.628	85.467	85.467	85.497	85.597	85.597	85.685	85.685	85.585	85.555	85.555
LEVEL DIFFERENCE	0.000	0.089	0.068	0.060	0.210	0.157	0.156	0.058	0.058	0.028	-0.067	-0.065	-0.125	-0.127	-0.032	-0.002	-0.002
EXISTING SURFACE	85.983	85.970	85.807	85.799	85.798	85.785	85.785	85.525	85.525	85.525	85.527	85.532	85.560	85.558	85.553	85.553	85.553
DESIGN OFFSETS	-6.859	-6.450	-0.750	-0.480	-0.450	0.000	0.001	5.128	5.128	5.131	5.282	5.358	7.920	7.995	8.146	8.149	8.150

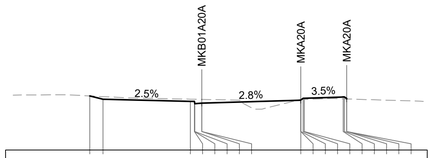
CH 240.000



DATUM R.L 81.0

CUT STRINGS	IAL	EVL	CBL	CTL	C3L	CFL	CEER	CE1L	CF1L	C31L	CT1L	CB1L	CT1L	C31L	CF1L	CE1L
DESIGN LEVELS	83.627	83.652	83.509	83.509	83.509	83.359	83.399	83.594	83.594	83.624	83.724	83.774	83.814	83.714	83.684	83.684
LEVEL DIFFERENCE	0.000	-0.026	0.037	0.037	0.037	0.187	0.146	0.060	0.060	0.030	-0.065	-0.065	-0.125	-0.030	0.000	-0.000
EXISTING SURFACE	83.627	83.626	83.546	83.546	83.546	83.546	83.545	83.654	83.654	83.654	83.659	83.661	83.689	83.684	83.684	83.684
DESIGN OFFSETS	-6.549	-6.450	-0.750	-0.480	-0.480	-0.450	0.000	6.500	6.500	6.503	6.653	6.728	9.272	9.347	9.497	9.500	9.500

CH 160.000



DATUM R.L 82.0

CUT STRINGS	IAL	EVL	CBL	CTL	C3L	CFL	CEL	CE2R	CE1L	CF1L	C31L	CT1L	CB1L	CB1L	CT1L	C31L	CF1L	CE1L
DESIGN LEVELS	85.529	85.314	85.171	85.171	85.171	85.021	85.061	85.061	85.244	85.244	85.274	85.374	85.374	85.464	85.463	85.433	85.333	85.333
LEVEL DIFFERENCE	0.000	0.172	0.148	0.143	0.143	0.292	0.243	0.243	0.058	0.058	0.029	-0.067	-0.065	-0.125	-0.127	-0.031	-0.002	-0.002
EXISTING SURFACE	85.529	85.485	85.319	85.314	85.314	85.313	85.304	85.304	85.303	85.303	85.303	85.307	85.310	85.339	85.337	85.332	85.332	85.332
DESIGN OFFSETS	-7.313	-6.450	-0.750	-0.480	-0.480	-0.450	0.000	0.001	6.467	6.467	6.470	6.620	6.695	9.239	9.314	9.464	9.467	9.467

CH 220.000

CROSS SECTION - MKB01A20A

A1 HORIZONTAL SCALE 1:200

A1 VERTICAL SCALE 1:200

This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001-2000.

AECOM

CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

0 5 10 m H=1:200 V=1:200

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.08.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

KERB CONTROL
CROSS SECTIONS
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0472

ISO A1 594mm x 841mm

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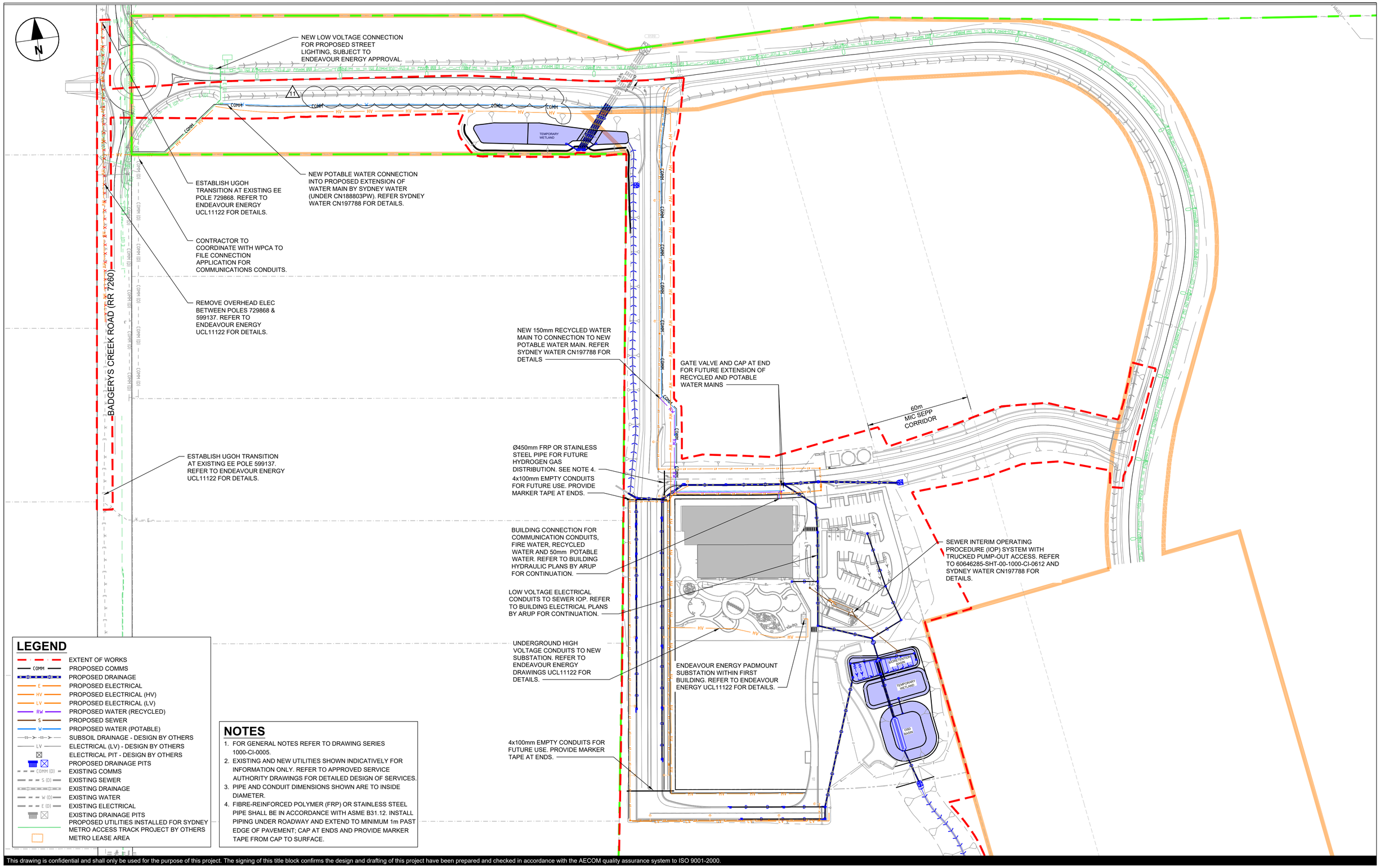
ISO A1 594mm x 841mm



LEGEND

- EXTENT OF WORKS
- PROPOSED COMMS
- PROPOSED DRAINAGE
- PROPOSED ELECTRICAL
- PROPOSED ELECTRICAL (HV)
- PROPOSED ELECTRICAL (LV)
- PROPOSED WATER (RECYCLED)
- PROPOSED SEWER
- PROPOSED WATER (POTABLE)
- SUBSOIL DRAINAGE - DESIGN BY OTHERS
- ELECTRICAL (LV) - DESIGN BY OTHERS
- ELECTRICAL PIT - DESIGN BY OTHERS
- PROPOSED DRAINAGE PITS
- EXISTING COMMS
- EXISTING SEWER
- EXISTING DRAINAGE
- EXISTING WATER
- EXISTING ELECTRICAL
- EXISTING DRAINAGE PITS
- PROPOSED UTILITIES INSTALLED FOR SYDNEY METRO ACCESS TRACK PROJECT BY OTHERS
- METRO LEASE AREA

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.
2. EXISTING AND NEW UTILITIES SHOWN INDICATIVELY FOR INFORMATION ONLY. REFER TO APPROVED SERVICE AUTHORITY DRAWINGS FOR DETAILED DESIGN OF SERVICES.
3. PIPE AND CONDUIT DIMENSIONS SHOWN ARE TO INSIDE DIAMETER.
4. FIBRE-REINFORCED POLYMER (FRP) OR STAINLESS STEEL PIPE SHALL BE IN ACCORDANCE WITH ASME B31.12. INSTALL PIPING UNDER ROADWAY AND EXTEND TO MINIMUM 1m PAST EDGE OF PAVEMENT; CAP AT ENDS AND PROVIDE MARKER TAPE FROM CAP TO SURFACE.

Last saved by: SHION.WATAKABE(2023-11-10) Last Plotted: 2023-11-16
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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 25 50 m
1:1000

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
11	08.11.23	FOR APPROVAL
10	15.08.23	ISSUED FOR CONSTRUCTION
9	22.05.23	ISSUED FOR CONSTRUCTION
8	14.04.23	ISSUED FOR CONSTRUCTION
7	23.01.23	ISSUED FOR DRAFT IFC
6	02.09.22	ISSUED FOR APPROVAL

PROJECT NUMBER

60646285

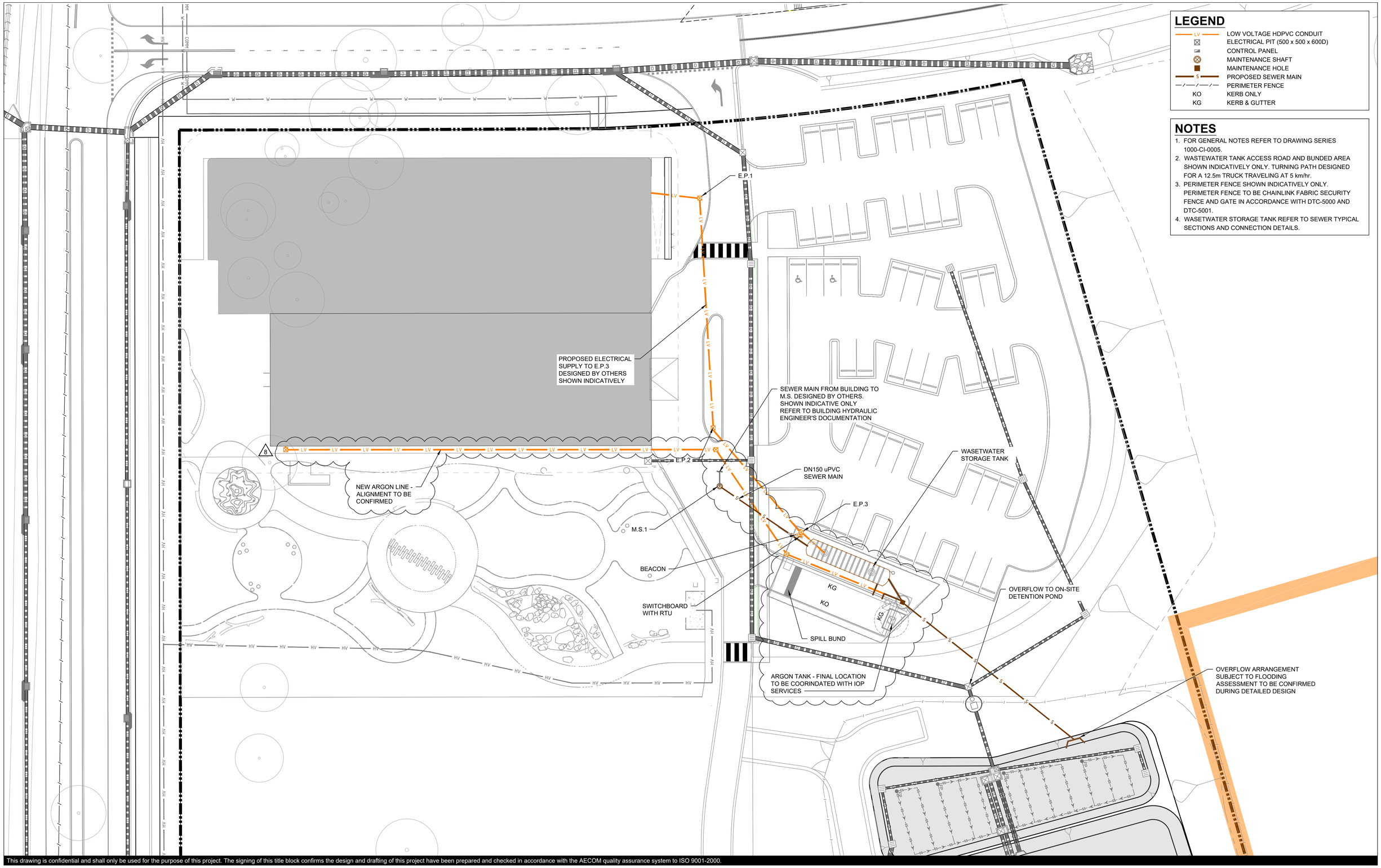
SHEET TITLE

COMBINED SERVICES PLAN

SHEET NUMBER

60646285-SHT-00-1000-CI-0601

ISO A1 594mm x 841mm



LEGEND

LV	LOW VOLTAGE HDPVC CONDUIT
	ELECTRICAL PIT (500 x 500 x 600D)
	CONTROL PANEL
	MAINTENANCE SHAFT
	MAINTENANCE HOLE
S	PROPOSED SEWER MAIN
	PERIMETER FENCE
KO	KERB ONLY
KG	KERB & GUTTER

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.
2. WASTEWATER TANK ACCESS ROAD AND BUNDED AREA SHOWN INDICATIVELY ONLY. TURNING PATH DESIGNED FOR A 12.5m TRUCK TRAVELING AT 5 km/hr.
3. PERIMETER FENCE SHOWN INDICATIVELY ONLY. PERIMETER FENCE TO BE CHAINLINK FABRIC SECURITY FENCE AND GATE IN ACCORDANCE WITH DTC-5000 AND DTC-5001.
4. WASETWATER STORAGE TANK REFER TO SEWER TYPICAL SECTIONS AND CONNECTION DETAILS.

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AECOM

CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 6.25 12.5 m
1:250

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	08.11.23	FOR APPROVAL
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

PROJECT NUMBER

60646285

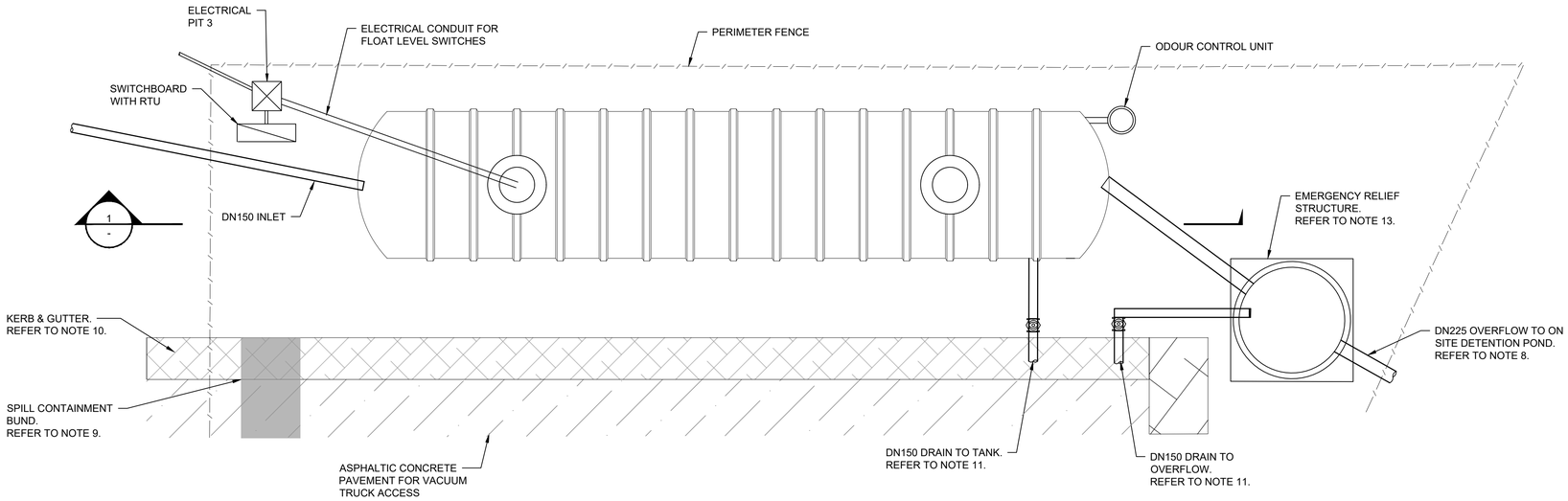
SHEET TITLE

SEWER
GENERAL ARRANGEMENT

SHEET NUMBER

60646285-SHT-00-1000-CI-0611

ISO A1 594mm x 841mm

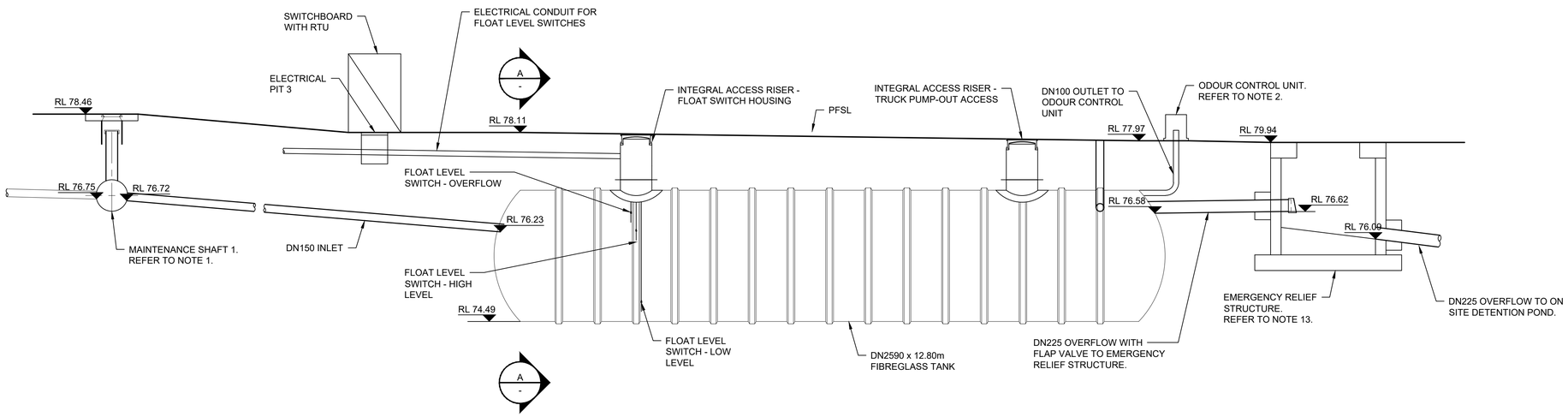


PLAN - FIBREGLASS TANK

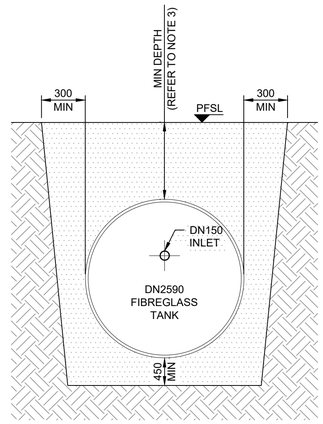
SCALE 1:50

NOTES:

1. MAINTENANCE SHAFT TO BE 'POO-PIT' BY SMARTSTREAM TECHNOLOGY OR APPROVED EQUIVALENT TO WSA-PS-322. RISERS TO BE PVC-U SN8 AND INSTALLED VERTICALLY, CAP TO BE PVC-U SOLVENT-WELDED JOINT CAP WITH SCREW-LOCK LID AND RUBBER-RING SEAL.
2. ODOUR CONTROL UNIT TO BE ODOUR FILTER TO BE MCBERNS GM300 GROUND MOUNTED FILTER OR APPROVED EQUIVALENT.
3. MINIMUM COVER OF TANK TO BE 1500mm IF NO DEADMAN ANCHORS ARE USED. IF DEADMAN ANCHORS ARE USED, MINIMUM COVER TO BE 950mm.
4. NEW SEWER MAIN TO BE DN150 SN8 RRJ.
5. NEW SEWER MAIN TO BE LAID AT MINIMUM 900mm COVER
6. MINIMUM VERTICAL CLEARANCE BETWEEN SEWER MAIN AND ELECTRICITY CONDUITS TO BE 225mm. REFER TO CLAUSE 4.4.5.2 OF WSA 02-2002-2.2 SYDNEY WATER EDITION 4 FOR CLEARANCES BETWEEN SEWER MAINS AND OTHER UTILITIES.
7. ASPHALTIC CONCRETE PAVEMENT FOR VACUUM TRUCK ACCESS TO BE AS PER DTC-6311, SECTION 5.
8. OVERFLOW DISCHARGE POINT TO BE IN ACCORDANCE DTC-6312, COMPONENT No. S300.
9. SPILL CONTAINMENT BUND TO BE IN ACCORDANCE WITH DTC-6311, COMPONENT No. S103.
10. KERB & GUTTER TO BE IN ACCORDANCE WITH DTC-6311, COMPONENT No. S104.
11. HARDSTAND DRAINAGE PIPEWORK ASSEMBLY TO BE IN ACCORDANCE WITH DTC-6312, COMPONENT No. S101 & S102.
12. FLOAT SWITCH LEVELS SHOWN INDICATIVELY ONLY.
13. EMERGENCY RELIEF STRUCTURE IN ACCORDANCE WITH DTC-6017. INLET LEVELS TO BE CONFIRMED IN DETAILED DESIGN.



1 | SECTION
- Scale 1:50



A | ELEVATION
- Scale 1:50

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 1.25 2.5 m
1:50

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER
2	22.04.22	DRAFT TENDER COORDINATION

FOR INFORMATION ONLY

PROJECT NUMBER

60646285

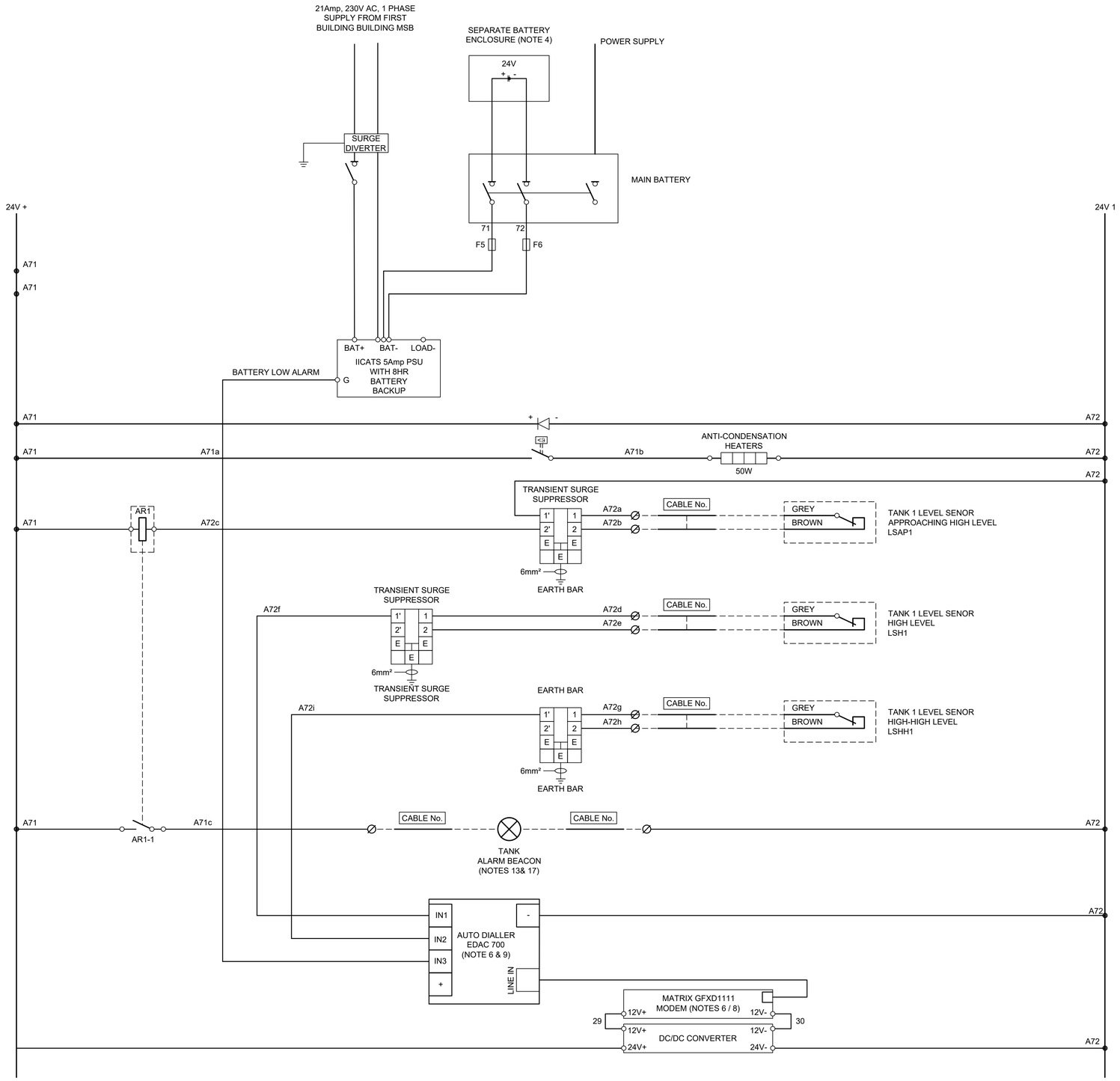
SHEET TITLE

SEWER
TYPICAL SECTIONS AND CONNECTION DETAILS

SHEET NUMBER

60646285-SHT-00-1000-CI-0612

ISO A1 594mm x 841mm



NOTES:

1. THIS DRAWING IS INTENDED TO BE USED AS A STANDARD DESIGN APPLICABLE TO ONE TANK.
2. CUBICLE TO BE WIRED IN COPPER CABLES 0.6/1kV PVC V75 INSULATION MINIMUM $1.5mm_2$. EXCEPT FOR MAIN DC SUPPLIES AND HEATER CCT WHICH SHALL BE MIN $2.5mm^2$.
3. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE SELECTION OF CIRCUIT BREAKERS, FUSES AND ALSO PROTECTION CO-ORDINATION AND CASCADING. THE PROTECTION SYSTEM SHALL COMPLY WITH AS3000.
4. ALL EXTERNAL CABLES SHALL BE PROVIDED WITH A CABLE MARKER AT BOTH ENDS INSCRIBED WITH A UNIQUE IDENTIFYING CODE. LABELS FROM DOMESTIC LABELLERS OF THE "STICK ON" VARIETY OR LABELS MADE WITH "MARKING PENS" ARE NOT ACCEPTABLE.
5. EQUIPMENT SHALL BE PLACED TO ALLOW AIR-FLOW AROUND ANY VENTS AND IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS RECOMMENDATIONS. TEMPERATURE RISE WITHIN THE ENCLOSURE SHALL BE DETERMINED AND THE ENCLOSURE DESIGNED TO MAINTAIN TEMPERATURE WITHIN THE EQUIPMENT SPECIFICATIONS.
6. ALL EQUIPMENT SPECIFICATIONS AND RATINGS TO BE VERIFIED/CONFIRMED BY THE DETAILED DESIGNER.
7. CONTROL PANEL TO BE INSTALLED FACING SOUTH.
8. MODEM TYPE/MODEL TO MATCH THE AUTO DIALLER. TO BE VERIFIED AND CONFIRMED BY THE AUTO DIALLER MANUFACTURER (EDAC).
9. AUTO DIALLER FUNCTION IS:
   - IN1: TANK 1 4 HOURS TO OVERFLOW (DERIVED FROM LSM1)
   - IN2: TANK 1 OVERFLOW (DERIVED FROM LSH1)
   - IN3: BATTERY LOW VOLTS ALARM & SUPPLY FAIL ALARM
   - CONFIGURE TO ACCEPT NORMALLY CLOSED TYPE INPUTS FUNCTION TO BE CONFIRMED AGAINST SITE SPECIFIC OPERATING PLAN.
10. ALARM BEACONS TO BE MOUNTED ON PLINTH ADJACENT TO CONTROL PANEL AS SHOWN ON RELEVANT PLAN LAYOUTDRAWING.
11. CONDUITS SHALL BE HEAVY DUTY uPVC TO AS2053 AND MINIMUM 50mm DIAMETER.
12. ELECTRICAL CUBICLE SHALL BE STAINLESS STELL 316 AND MINIMUM IP56.

MAJOR EQUIPMENT LIST:

1. PHOENIX QUINT POWER QUINT4-PS/1AC/24VDC/10 2904601
2. PHOENIX QUINT UPS QUINT-UPS/24DC/12DC/5/24DC/10 2320461
3. STEGO RC016 ANTI-CONDENSATION HEATERS (24 V DC, 5 OFF 10W FOR 50W TOTAL) & HYGROSTAT
4. DC/DC CONVERTER TO SUIT THE GFXD1111 MODEM (INPUT 10-32V DC / OUTPUT 12 VDC)
5. B & R 'MONARCH IP' ENCLOSURE (CONTROL PANEL), ESTIMATED DIMENSIONS: 600(H) X 800(W) X 270(D)
6. ERICO CRITEC UTB SP TRANSIENT SURGE PROTECTORS.
7. FLYGT ENM-10 FLOAT SWITCH.
8. LED BEACON SCHNEIDER XVB L1B4.
9. AUTO-DIALLER EDAC700.
   CUBICLE TERMINALS
10. PHOENIX UPS-BAT/VRLA/24DC/12AH

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
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CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER
2	22.04.22	DRAFT TENDER COORDINATION

FOR INFORMATION ONLY

PROJECT NUMBER

60646285

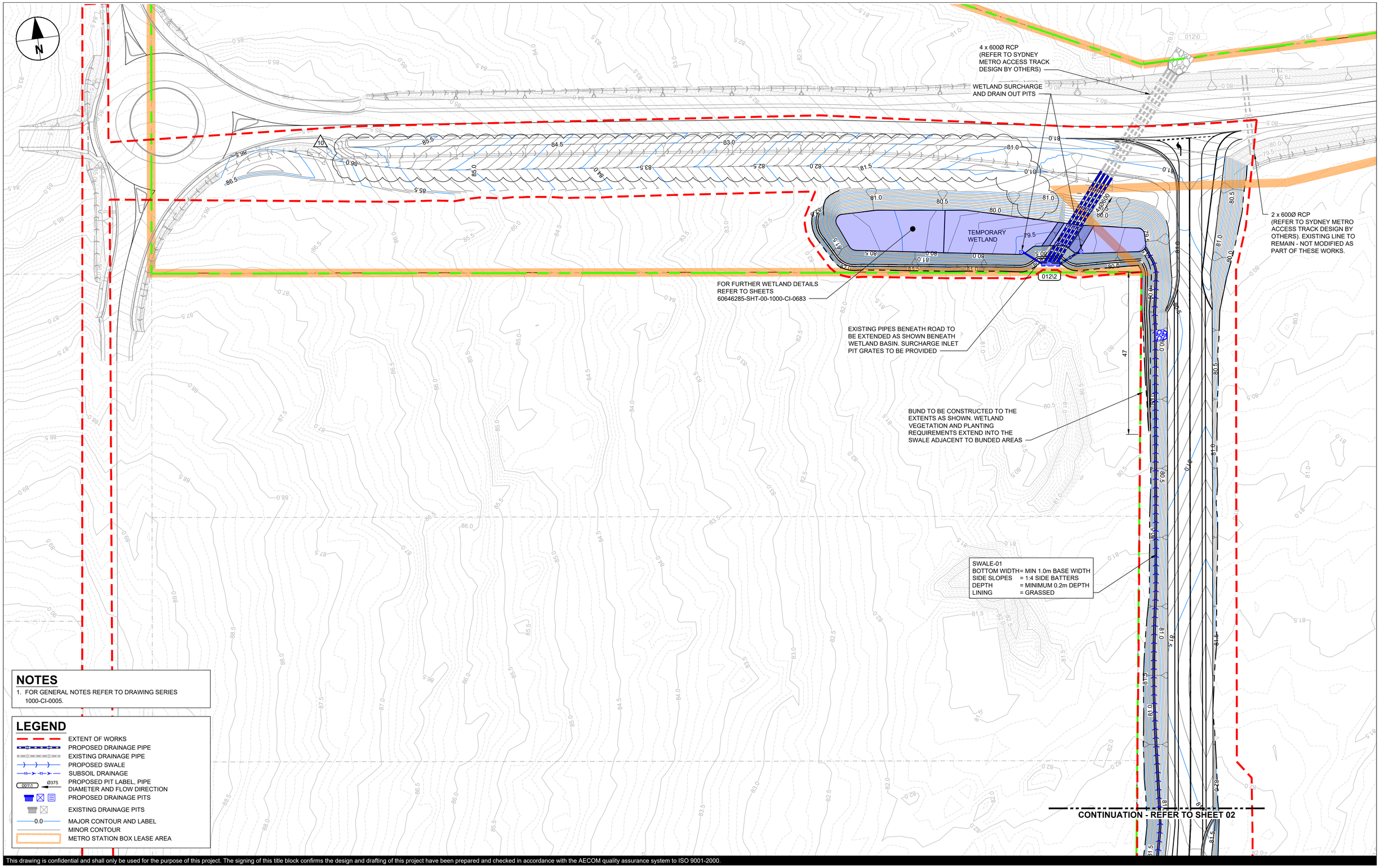
SHEET TITLE

SEWER
PROCESS & INSTRUMENTATION DIAGRAM

SHEET NUMBER

60646285-SHT-00-1000-CI-0613

ISO A1 594mm x 841mm



NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.

LEGEND

- EXTENT OF WORKS
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- PROPOSED SWALE
- SUBSOIL DRAINAGE
- 00111 Ø375 — PROPOSED PIT LABEL, PIPE DIAMETER AND FLOW DIRECTION
- PROPOSED DRAINAGE PITS
- EXISTING DRAINAGE PITS
- 0.0 — MAJOR CONTOUR AND LABEL
- MINOR CONTOUR
- METRO STATION BOX LEASE AREA

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KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

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☐ NO
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JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
10	08.11.23	FOR APPROVAL
9	15.08.23	ISSUED FOR CONSTRUCTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC
5	02.09.22	ISSUED FOR APPROVAL

PROJECT NUMBER

60646285

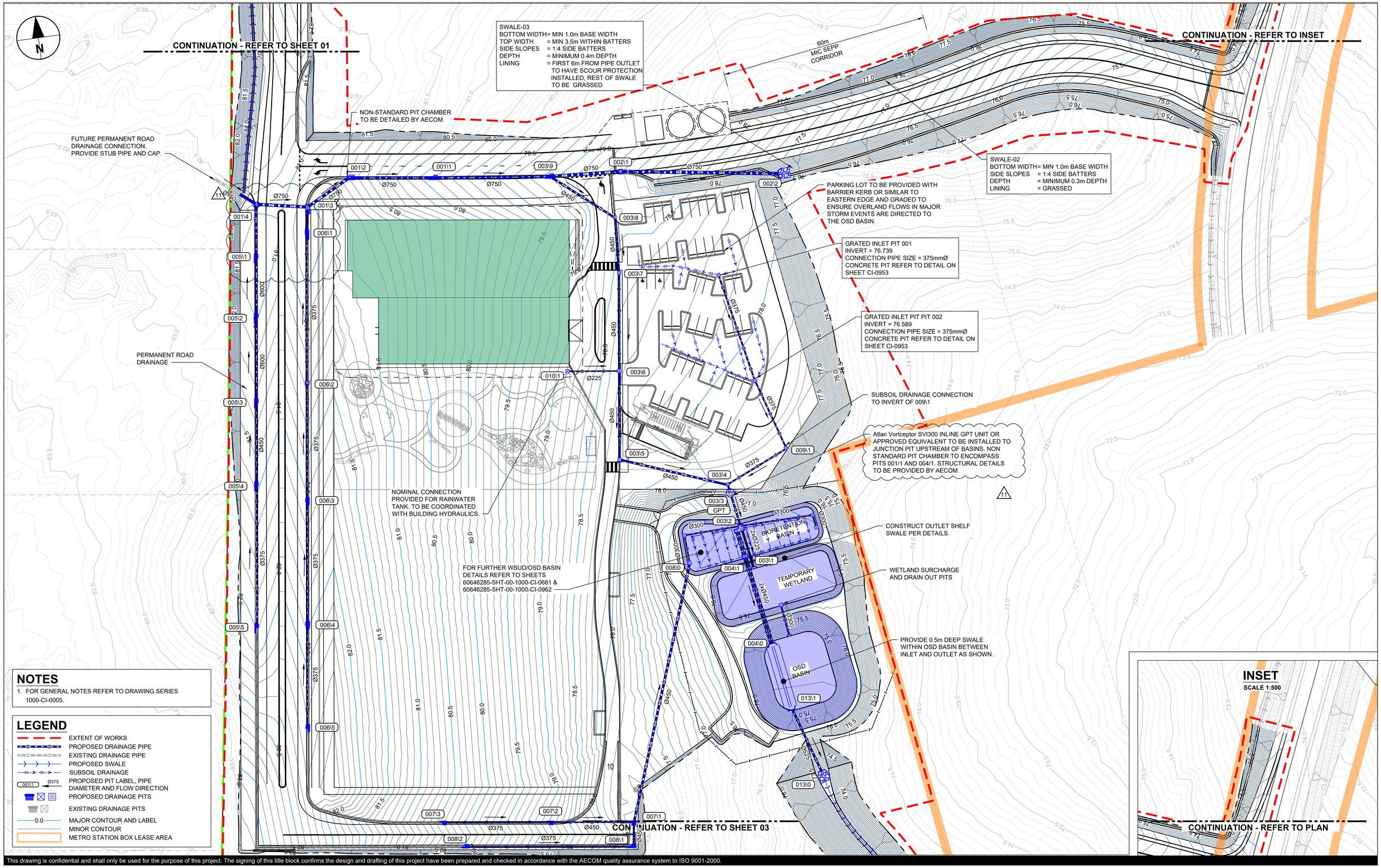
SHEET TITLE

STORMWATER DRAINAGE
PLAN
SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-CI-0621

ISO A1 594mm x 841mm



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PROJECT

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CORE PRECINCT
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CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

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DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
11	16.02.23	ISSUED FOR CONSTRUCTION
10	17.11.23	ISSUED FOR CONSTRUCTION
9	15.08.23	ISSUED FOR CONSTRUCTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

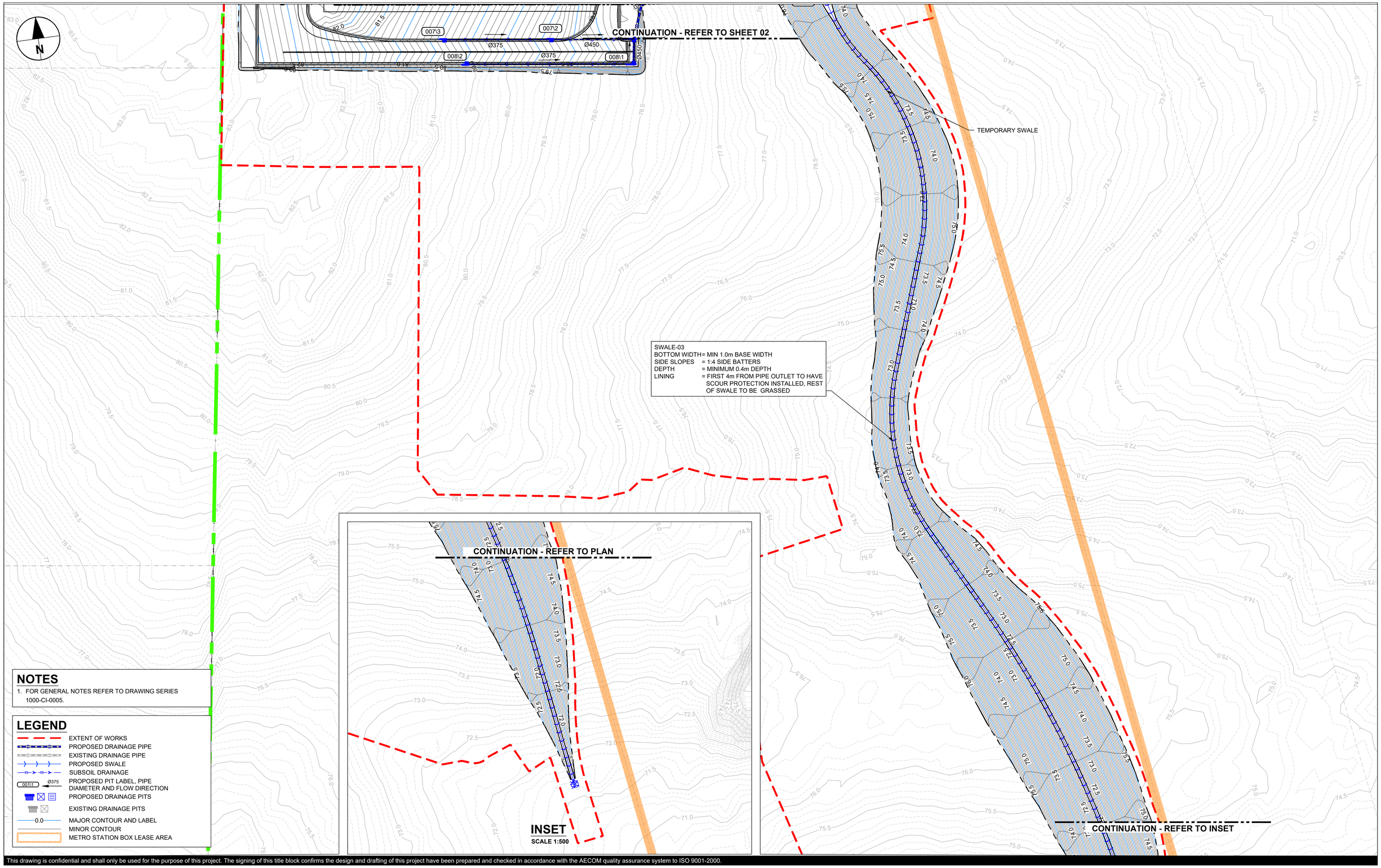
SHEET TITLE

STORMWATER DRAINAGE PLAN
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0622

ISO A1 594mm x 841mm



NOTES

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SCALE BAR

0 12.5 25 m
1:500

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DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
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3	02.09.22	ISSUED FOR APPROVAL
2	29.04.22	ISSUED FOR TENDER
1	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STORMWATER DRAINAGE PLAN
SHEET 03

SHEET NUMBER

60646285-SHT-00-1000-CI-0623

ISO A1 594mm x 841mm

DRAINAGE PIT SCHEDULE

NAME	INLET TYPE	GRATE SIZE OR LINTEL OPENING	CHAMBER LENGTH (mm)	CHAMBER WIDTH (mm)	EASTING (m)	NORTHING (m)	PIT SETOUT RL (m AHD)	DEPTH TO INVERT (m)	INLET PIPE DIA (mm)	INLET PIPE IL (m)	OUTLET PIPE DIA (mm)	OUTLET PIPE IL (m)	NOTES
001/1	Grated Gully Pit	2.4KI Class D	Custom - refer to details		290481.62	6244313.95	79.801	1.911	750	77.917	750	77.885	SOP to centre grate at lip.
001/2	Grated Gully Pit	2.4KI Class D	Custom - refer to details		290457.69	6244317.18	80.564	2.325	750	78.235	750	78.187	SOP to centre grate at lip.
001/3	Grated Gully Pit	0.9KI Class D	Custom - refer to details		290443.01	6244308.994	80.831	2.468	750	78.413	750	78.363	SOP to centre grate at lip.
									375	79.214			
001/4	Hinged Pit Grate	Concrete Lid	Custom - refer to details		290429.35	6244312.66	81.032	2.714	600	79.072	750	78.653	SOP to centre grate at FSL
002/1	Hinged Pit Grate	Concrete Lid	Custom - refer to details		290534.79	6244308.36	78.622	1.359	750	77.187	750	77.263	Sealed junction pit. To be converted to kerb inlet with future road works.
002/2	Headwall	Size by pipe diameter			290580.00	6244301.38	76.549	0.199			750	76.35	Outlet to swale
003/1	Headwall	Size by pipe diameter			290557.46	6244189.35	75.608	0.331	225	75.277			Outlet to wetland swale shelf
003/2	Custom pit - refer to details						76.174		450	75.422	2x 225	75.35	
											2x 300	75.38	
003/3	GPT	OS 1112			290553.82	6244211.42	77.7	1.743	450	75.957	450	75.957	Atlan Vortceptor SVI300 OS1112 GPT unit - adjust inlet and outlet levels to suit GPT
003/4	Hinged Pit Grate	HPG9090 Class B			290553.38	6244214.17	77.93	1.946	450	75.995	450	75.984	Junction pit to allow coordination with GPT unit
									375	76.205			
003/5	Dish Crossing Grate	DCG96D	530	900	290523.30	6244225.43	78.188	1.931	450	76.257	450	76.257	
003/6	Dish Crossing Grate	DCG96D			290526.69	6244250.95	78.317	1.852	450	76.465	450	76.465	
									225	76.915			
003/7	Dish Crossing Grate	DCG96D	530	900	290530.45	6244279.22	78.459	1.78	450	76.729	450	76.679	
003/8	Junction Pits	Concrete Lid	900	900	290531.58	6244295.29	78.539	1.687	450	76.893	450	76.852	Sealed concrete lid.
003/9	Grated Gully Pit	2.4KI Class D	Custom - refer to details		290515.04	6244309.836	79.057	1.94	750	77.548	450	77.112	
											750	77.51	High flow outlet for future connection
004/0	Headwall	Size by pipe diameter			290557.92	6244164.02	74.68	0.575			450	74.105	Outlet to OSD
004/1	Hinged Pit Grate	HPG9090 Class B	900	1368	290554.37	6244200.54	76.14	1.224	450	74.316	450	74.916	Bioretention basin connection point for subsoil drainage
005/1	Grated Gully Pit	2.4KI Class D	900	900	290427.31	6244298.12	80.903	1.601	600	79.497	600	79.447	SOP to centre grate at lip.
005/2	Grated Gully Pit	2.4KI Class D	900	900	290425.00	6244281.01	80.989	1.163	600	79.717	600	79.717	SOP to centre grate at lip.
005/3	Grated Gully Pit	2.4KI Class D	900	900	290421.70	6244256.59	81.236	1.189	450	80.013	600	79.963	SOP to centre grate at lip.
005/4	Grated Gully Pit	2.4KI Class D	900	900	290418.47	6244232.73	81.476	1.1	375	80.293	450	80.293	SOP to centre grate at lip.
005/5	Grated Gully Pit	2.4KI Class D	900	900	290412.96	6244191.96	81.888	1.034			375	80.771	SOP to centre grate at lip.
006/1	Grated Gully Pit	1.8KI Class D	900	900	290442.21	6244303.08	80.793	2.330	375	79.14	750	78.48	SOP to centre grate at lip.
006/2	Grated Gully Pit	1.8KI Class D	900	900	290436.37		81.183	1.05	375	80.1	375	80.05	SOP to centre grate at lip.
006/3	Grated Gully Pit	1.8KI Class D	900	900	290431.82	6244226.21	81.523	1	375	80.49	375	80.44	SOP to centre grate at lip.
006/4	Grated Gully Pit	1.8KI Class D	900	900	290427.02	6244190.72	81.881	0.95	375	80.898	375	80.848	SOP to centre grate at lip.
006/5	Grated Gully Pit	1.8KI Class D	900	900	290423.02	6244161.08	82.119	0.9			375	81.197	SOP to centre grate at lip.
007/1	Hinged Pit Grate	HPG9090 Class D			290513.15	6244120.38	77.571	1.368	450	76.203	450	76.203	Inlet at road termination - to be replaced with kerb inlet with further road
									450	76.213			
007/2	Grated Gully Pit	1.8KI Class D	900	900	290489.49	6244123.52	78.756	1.37	375	77.436	450	77.386	
007/3	Grated Gully Pit	1.8KI Class D	900	900	290458.80	6244127.67	80.289	1.281			375	79.008	
008/0	WSUD Pit	HPG6060 Class B			290539.40	6244193.01	76.017	0.727	450	75.424	225	75.29	
008/1	Hinged Pit Grate	HPG9090 Class D	600	900	290512.23	6244114.40	77.58	1.291	375	76.339	450	76.289	Inlet at road termination - to be replaced with kerb inlet with further road
008/2	Grated Gully Pit	1.8KI Class D	900	900	290464.33	6244120.87	79.972	1.415			375	78.557	
009/1	Hinged Pit Grate	HPG9090 Class D	600	900	290571.69	6244222.21	77.824	1.446			375	76.378	Connection point for carpark subsoil and drainage
010/1	Junction Pits	HPG9090 Class D	450	450	290512.23	6244252.92	78.882	2.182			225	76.7	Connection point for rainwater tank
011/0	Headwall	Size by pipe diameter			290420.59	6244535.60	80.544	0.929	525	79.615			Outlet to northern wetland basin
011/1	Grated Gully Pit	1.8KI Class D	900	900	290410.34	6244547.15	80.878	1.129	525	79.799	525	79.749	
011/2	Grated Gully Pit	1.8KI Class D	900	900	290380.76	6244552.03	81.388	1.193	450	80.245	525	80.195	
011/3	Grated Gully Pit	1.8KI Class D	900	900	290350.22	6244556.79	82.296	0.856	450	81.49	450	81.44	
011/4	Grated Gully Pit	1.8KI Class D	900	900	290311.81	6244561.56	83.465	0.794	450	82.721	450	82.671	
011/5	Grated Gully Pit	1.8KI Class D	900	900	290271.81	6244566.52	84.67	0.744			450	83.926	
012/2	Surcharge Pit	4x SPG1212CL	Custom - refer to details		290424.53	6244517.60	80.146	1.813			600	78.333	Custom in-situ surcharge inlet pit - connected to existing Metro pipes
013/0	Headwall	Size by pipe diameter			290568.99	6244128.10	73.299	0.021	525	73.278			OSD outlet
013/1	Headwall	Size by pipe diameter			290561.30	6244147.58	74.551	0.694			525	73.857	
013/1	Headwall	Size by pipe diameter			290561.30	6244147.58	74.551	0.694			525	73.857	

10

NOTES:

- REFER TO WESTERN SYDNEY ENGINEERING MANUAL FOR TYPICAL PIT DETAILS.
- ALL PIT LOCATIONS AND LEVELS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- ALL PIT GRATES LOCATED IN VEHICLE ACCESSIBLE AREAS ARE TO BE CLASS D.

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PROJECT

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KEY PLAN

SCALE BAR

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
10	16.02.24	ISSUED FOR CONSTRUCTION
9	17.11.23	ISSUED FOR CONSTRUCTION
8	15.08.23	ISSUED FOR CONSTRUCTION
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5	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

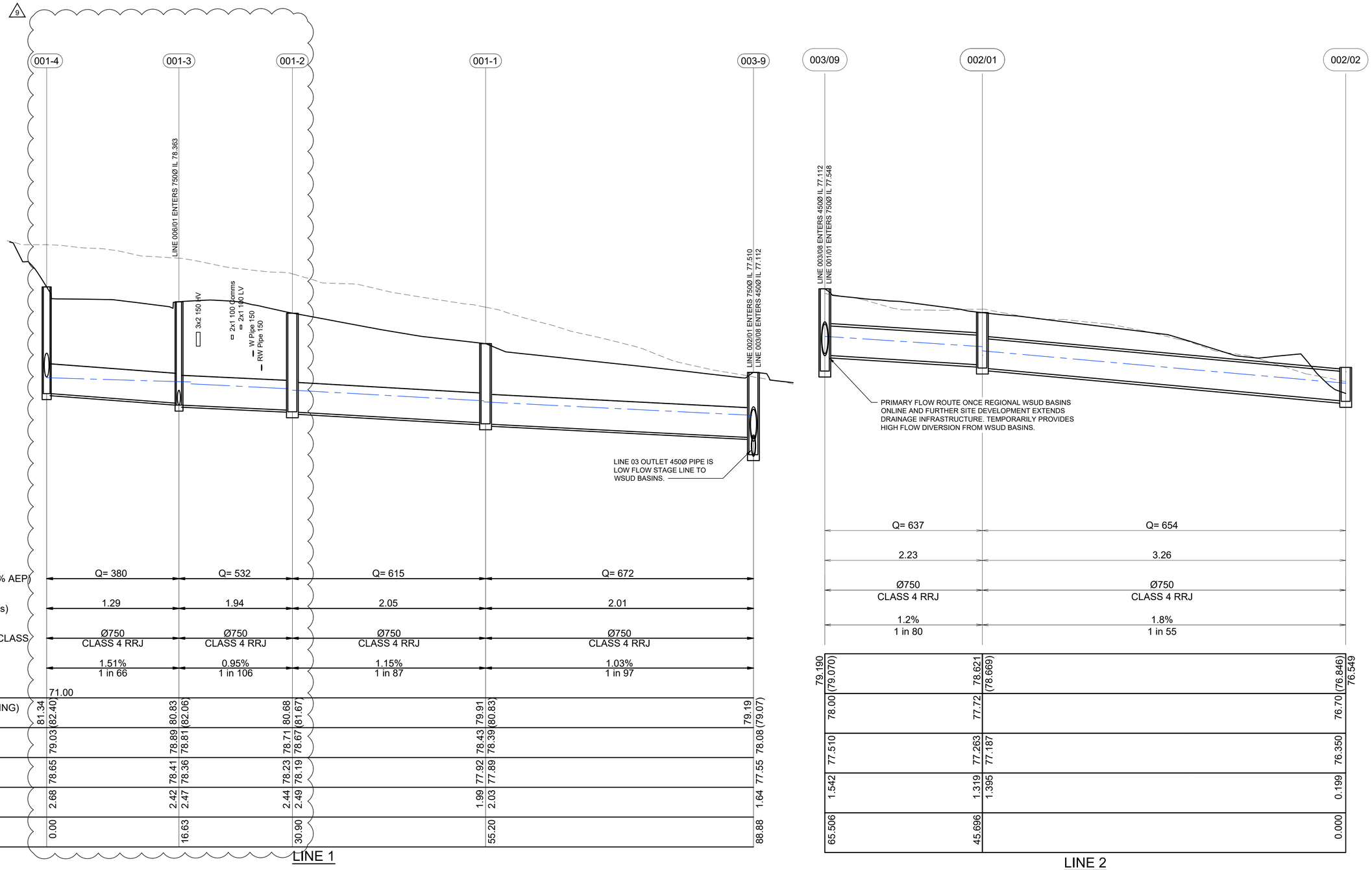
SHEET TITLE

STORMWATER DRAINAGE
PIT SCHEDULES

SHEET NUMBER

60646285-SHT-00-1000-CI-0641

ISO A1 594mm x 841mm



PIPE FLOW (L/s) (5% AEP)	Q= 380	Q= 532	Q= 615	Q= 672
PIPE VELOCITY (m/s)	1.29	1.94	2.05	2.01
PIPE SIZE (mm) & CLASS	Ø750 CLASS 4 RRJ	Ø750 CLASS 4 RRJ	Ø750 CLASS 4 RRJ	Ø750 CLASS 4 RRJ
PIPE GRADE	1.51% 1 in 66	0.95% 1 in 106	1.15% 1 in 87	1.03% 1 in 97
DATUM (m)	71.00			

FINISHED (& EXISTING) SURFACE LEVEL	81.34	(82.40)	80.83	(82.06)	80.68	(81.67)	79.91	(80.83)	79.19	(79.07)	78.621	(78.669)	76.70	(76.846)	76.549		
HYDRAULIC GRADE LINE	79.03		78.89	78.81	78.71	78.67	78.43	78.39	78.08		77.72		77.187		76.350		
INVERT LEVEL	78.65		78.41	78.36	78.23	78.19	77.92	77.89	77.55		77.263						
DEPTH TO INVERT	2.68		2.42	2.47	2.44	2.49	1.99	2.03	1.64		1.319	1.395			0.199		
PIPE CHAINAGE	0.00		16.63		30.90		55.20		88.88		45.696				0.000		

LINE 1

LINE 2

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CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 6.25 12.5 m H=1:250
0 0.5 1 V=1:50

SAFETY IN DESIGN INFORMATION

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☐ YES

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FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 01

SHEET NUMBER

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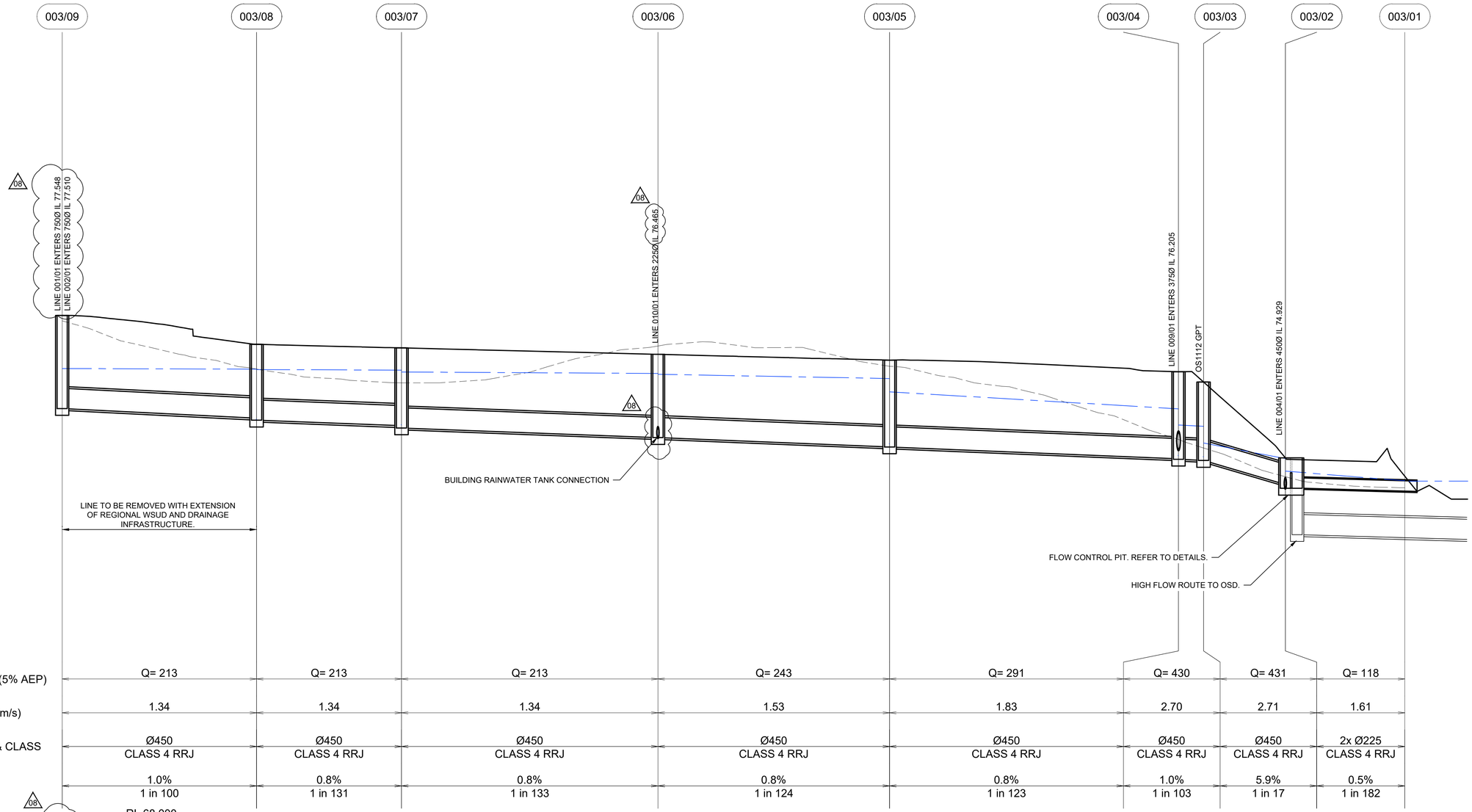
ISO A1 594mm x 841mm



	003/09	003/08	003/07	003/06	003/05	003/04	003/03	003/02	003/01
PIPE FLOW (L/s) (5% AEP)	Q= 213	Q= 213	Q= 213	Q= 243	Q= 291	Q= 430	Q= 431	Q= 118	
PIPE VELOCITY (m/s)	1.34	1.34	1.34	1.53	1.83	2.70	2.71	1.61	
PIPE SIZE (mm) & CLASS	Ø450 CLASS 4 RRJ	Ø450 CLASS 4 RRJ	Ø450 CLASS 4 RRJ	Ø450 CLASS 4 RRJ	Ø450 CLASS 4 RRJ	Ø450 CLASS 4 RRJ	Ø450 CLASS 4 RRJ	2x Ø225 CLASS 4 RRJ	
PIPE GRADE	1.0% 1 in 100	0.8% 1 in 131	0.8% 1 in 133	0.8% 1 in 124	0.8% 1 in 123	1.0% 1 in 103	5.9% 1 in 17	0.5% 1 in 182	
DATUM (m)	RL 68.000								
FINISHED (& EXISTING) SURFACE LEVEL	(79.190) 79.070	78.539 (77.990)	78.459 (77.683)	78.317 (78.501)	78.188 (78.052)	77.930 (76.425)	77.700 (76.235)	76.014 (75.597)	75.608 (75.351)
HGL	78.08	78.08 (78.08)	78.07	78.06	77.85	77.23	76.68	76.10	75.49
INVERT LEVEL	77.112	76.896 76.852	76.729 76.679	76.465	76.257	75.995 75.984	75.957	75.422 75.350	75.277
DEPTH TO INVERT	2.078	1.643 1.687	1.730 1.780	1.852	1.931	1.935 1.946	1.743	0.592 0.664	0.331
CHAINAGE	0.000	21.613	37.723	66.233	91.985	124.102	126.889	135.978	149.262

LINE 3

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CONSULTANT

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 6.25 12.5 m H=1:250 V=1:50
0 0.5 1

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

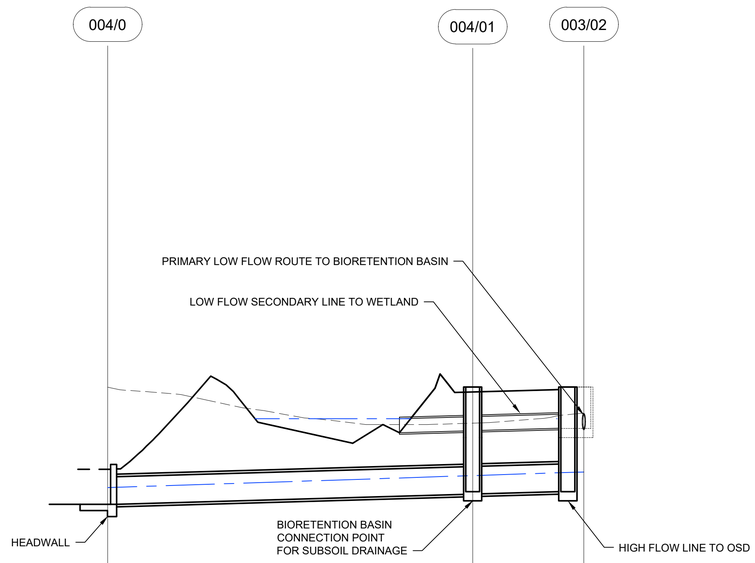
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0652

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AUSSHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0652.DWG

ISO A1 594mm x 841mm



PIPE FLOW (L/s) (5% AEP)	Q= 341	
PIPE VELOCITY (m/s)	1.94	
PIPE SIZE (mm) & CLASS	2x Ø450 CLASS 4 RRJ	
PIPE GRADE	-0.6% 1 in -174	
DATUM (m)	RL 67.000	
FINISHED (& EXISTING) SURFACE LEVEL	(76.020) 74.680	76.014 (75.597)
HGL	75.57	75.98
INVERT LEVEL	74.105	74.316 74.929
DEPTH TO INVERT	0.575	1.664 1.085
CHAINAGE	0.000	38.874

LINE 4

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AUSHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0653.DWG

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 6.25 12.5 m H=1:250
0 0.5 1 V=1:50

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER
2	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

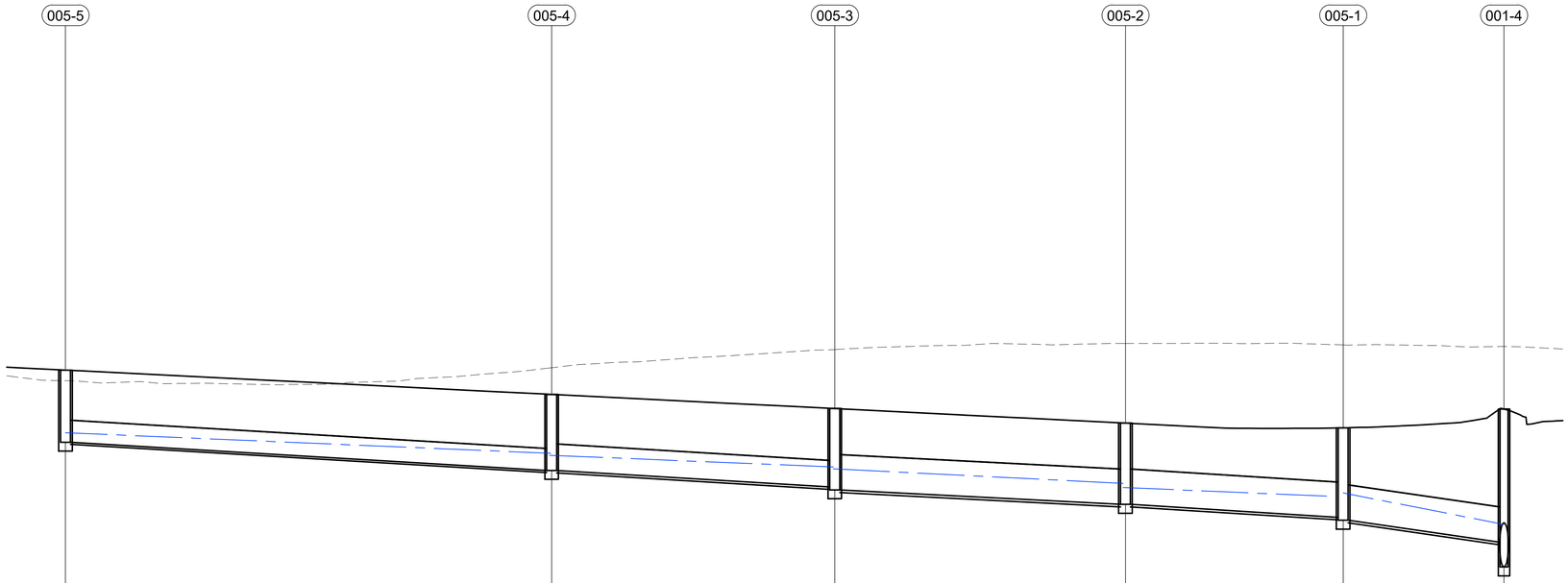
STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 03

SHEET NUMBER

60646285-SHT-00-1000-CI-0653

ISO A1 594mm x 841mm

08



PIPE FLOW (L/s) (5% AEP)	Q= 64	Q= 150	Q= 252	Q= 292	Q= 380
PIPE VELOCITY (m/s)	1.19	1.50	1.61	1.70	1.89
PIPE SIZE (mm) & CLASS	Ø375 CLASS 4 RRJ	Ø450 CLASS 4 RRJ	Ø600 CLASS 4 RRJ	Ø600 CLASS 4 RRJ	Ø600 CLASS 4 RRJ
PIPE GRADE	1.18% 1 in 85	1.21% 1 in 83	1.03% 1 in 97	1.25% 1 in 80	2.91% 1 in 34

DATUM (m)	72.00					72.00												
FINISHED (& EXISTING) SURFACE LEVEL	82.00	81.82				81.59	(82.04)			81.34	(82.35)			81.10	(82.45)		81.02	(82.43)		81.34	(82.40)
HYDRAULIC GRADE LINE		80.95				80.60				80.33	80.29			80.09			79.87	79.85		79.33	
INVERT LEVEL		80.77					80.29			80.01	79.96				79.72			79.50	79.45	79.07	78.65
DEPTH TO INVERT		1.23					1.29			1.33	1.38				1.38			1.52	1.57	2.27	2.68
PIPE CHAINAGE		0.00					41.30				65.35				90.04				108.53		122.20

LINE 5

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
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PROJECT

AEROTROPOLIS
CORE PRECINCT
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CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 6.25 12.5 m H=1:250
0 0.5 1 V=1:50

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

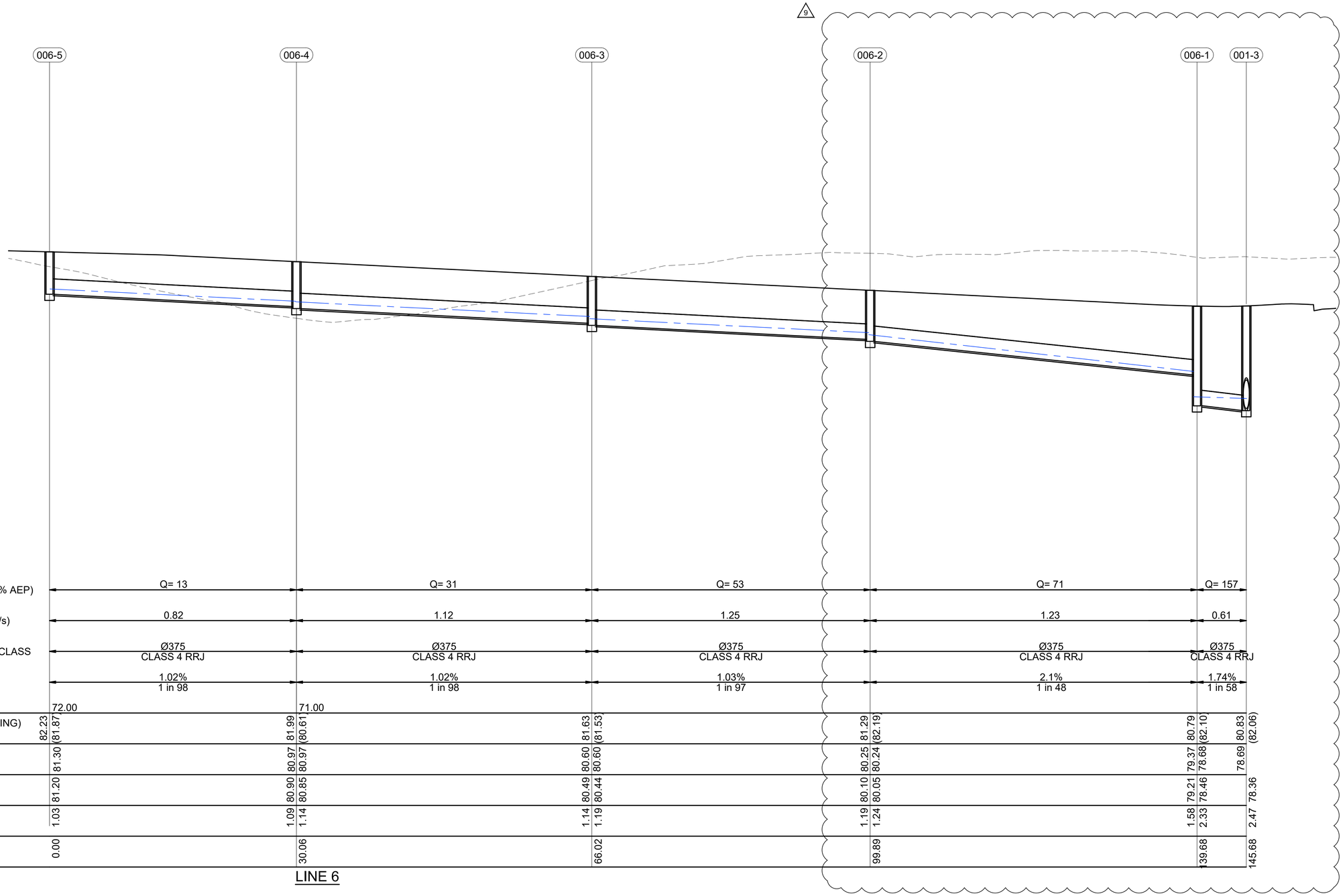
SHEET TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 04

SHEET NUMBER

60646285-SHT-00-1000-CI-0654

ISO A1 594mm x 841mm



PIPE FLOW (L/s) (5% AEP)	Q= 13	Q= 31	Q= 53	Q= 71	Q= 157
PIPE VELOCITY (m/s)	0.82	1.12	1.25	1.23	0.61
PIPE SIZE (mm) & CLASS	Ø375 CLASS 4 RRJ	Ø375 CLASS 4 RRJ	Ø375 CLASS 4 RRJ	Ø375 CLASS 4 RRJ	Ø375 CLASS 4 RRJ
PIPE GRADE	1.02% 1 in 98	1.02% 1 in 98	1.03% 1 in 97	2.1% 1 in 48	1.74% 1 in 58
DATUM (m)	72.00	71.00			

FINISHED (& EXISTING) SURFACE LEVEL	82.23	(81.87)	81.99	(80.61)	81.63	(81.53)	81.29	(82.19)	80.79	(82.10)	80.83	(82.06)						
HYDRAULIC GRADE LINE	81.30	81.30	80.97	80.97	80.60	80.60	80.25	80.24	79.37	78.68	78.69							
INVERT LEVEL	81.20	81.20	80.90	80.85	80.49	80.44	80.10	80.05	79.21	78.46	78.36							
DEPTH TO INVERT	1.03	1.03	1.09	1.14	1.14	1.19	1.19	1.24	1.58	2.33	2.47							
PIPE CHAINAGE	0.00		30.06		66.02		99.89		139.68		145.68							

LINE 6

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PROJECT

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CORE PRECINCT
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CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 6.25 12.5 m H=1:250
0 0.5 1 V=1:50

SAFETY IN DESIGN INFORMATION

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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
9	17.11.23	ISSUED FOR CONSTRUCTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL

FOR CONSTRUCTION

PROJECT NUMBER

60646285

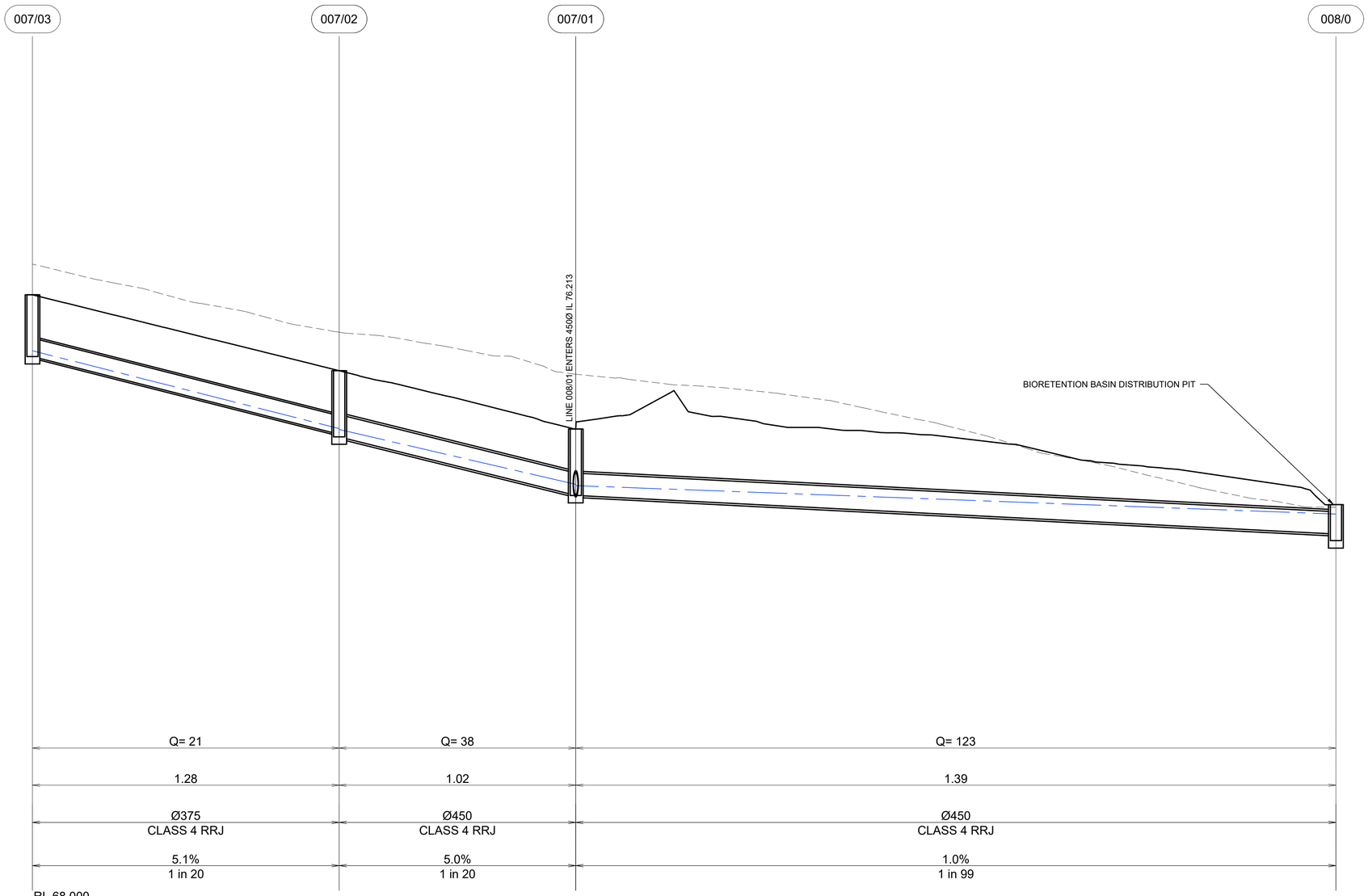
SHEET TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 05

SHEET NUMBER

60646285-SHT-00-1000-CI-0655

ISO A1 594mm x 841mm



RL 68.000

(80.875) 80.256	78.722	(79.499)	77.545	(78.650)		76.017 (75.962)
79.12	77.51		76.46			75.79
79.008	77.436	77.386	76.203			75.424
1.248	1.286	1.336	1.342			0.593
0.000	30.980		54.876			131.659

LINE 7

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
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PROJECT

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CORE PRECINCT
BRINGELLY

CLIENT

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KEY PLAN

SCALE BAR

0 6.25 12.5 m H=1:250
0 0.5 1 V=1:50

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER
2	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

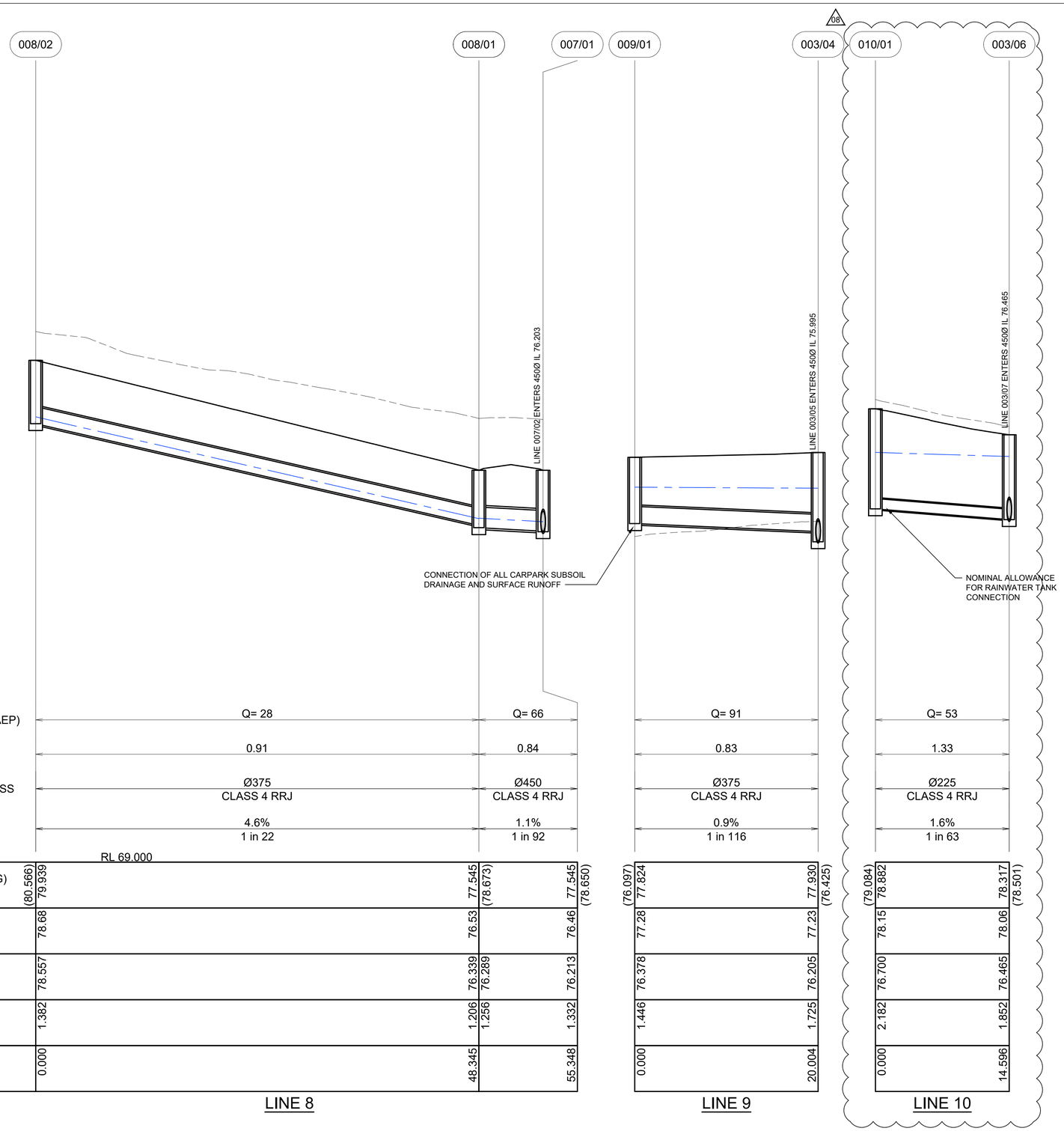
60646285

SHEET TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 06

SHEET NUMBER

60646285-SHT-00-1000-CI-0656



	LINE 8																													
PIPE FLOW (L/s) (5% AEP)	Q= 28																Q= 66													
PIPE VELOCITY (m/s)	0.91																0.84													
PIPE SIZE (mm) & CLASS	Ø375 CLASS 4 RRJ																Ø450 CLASS 4 RRJ													
PIPE GRADE	4.6% 1 in 22																1.1% 1 in 92													
DATUM (m)	RL 69.000																													
FINISHED (& EXISTING) SURFACE LEVEL	(80.566)	79.939														77.545	(78.673)												77.545	(78.650)
HGL	78.68															76.53													76.46	
INVERT LEVEL	78.557															76.339	76.289												76.213	
DEPTH TO INVERT	1.382															1.206	1.256												1.332	
CHAINAGE	0.000															48.345													55.348	

	LINE 9																													
FINISHED (& EXISTING) SURFACE LEVEL	(76.097)	77.824																											77.930	(76.425)
HGL	77.28																												77.23	
INVERT LEVEL	76.378																												76.205	
DEPTH TO INVERT	1.446																												1.725	
CHAINAGE	0.000																												20.004	

	LINE 10																													
FINISHED (& EXISTING) SURFACE LEVEL	(79.084)	78.882																											78.317	(78.501)
HGL	78.15																												78.06	
INVERT LEVEL	76.700																												76.465	
DEPTH TO INVERT	2.182																												1.852	
CHAINAGE	0.000																												14.596	

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ISO A1 594mm x 841mm

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CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 6.25 12.5 m H=1:250 V=1:50
0 0.5 1

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	15.08.23	ISSUED FOR CONSTRUCTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	02.09.22	ISSUED FOR APPROVAL
3	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

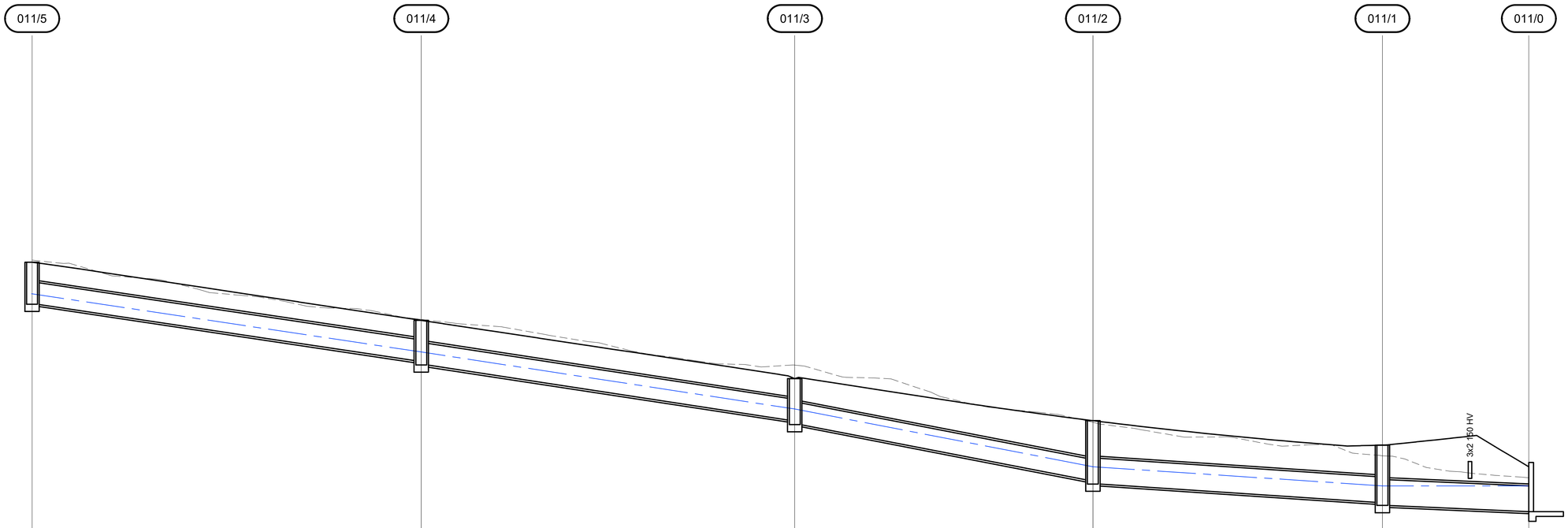
SHEET TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 07

SHEET NUMBER

60646285-SHT-00-1000-CI-0657

ISO A1 594mm x 841mm



PIPE FLOW (L/s) (5% AEP)	Q= 67	Q= 136	Q= 179	Q= 217	Q= 258
PIPE VELOCITY (m/s)	0.96	1.49	1.75	1.62	2.35
PIPE SIZE (mm) & CLASS	Ø450 CLASS 4 RRJ	Ø450 CLASS 4 RRJ	Ø450 CLASS 4 RRJ	Ø525 CLASS 4 RRJ	Ø525 CLASS 4 RRJ
PIPE GRADE	3.0% 1 in 33	3.1% 1 in 33	3.9% 1 in 26	1.3% 1 in 76	0.9% 1 in 113

DATUM (m) RL 72.000

FINISHED (& EXISTING) SURFACE LEVEL	(84.824)	84.780	83.575	(83.597)	82.369	(82.649)	81.500	(81.466)	80.993	(80.770)	80.544	(80.317)
HGL	84.126	82.921	81.740	80.545	80.149	80.149
INVERT LEVEL	83.926	82.721	82.671	81.490	81.440	80.245	80.195	79.799	79.749	79.615
DEPTH TO INVERT	0.854	0.854	0.904	0.879	0.929	1.255	1.305	1.194	1.244	0.929
CHAINAGE	0.000	40.314	79.002	109.883	139.875	155.034

LINE 11

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AU\SHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0658.DWG

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PROJECT

AEROTROPOLIS
CORE PRECINCT
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KEY PLAN

SCALE BAR

0 6.25 12.5 m H=1:250
0 0.5 1 V=1:50

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
6	22.05.23	ISSUED FOR CONSTRUCTION
5	14.04.23	ISSUED FOR CONSTRUCTION
4	23.01.23	ISSUED FOR DRAFT IFC
3	02.09.22	ISSUED FOR APPROVAL
2	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

PROJECT NUMBER

60646285

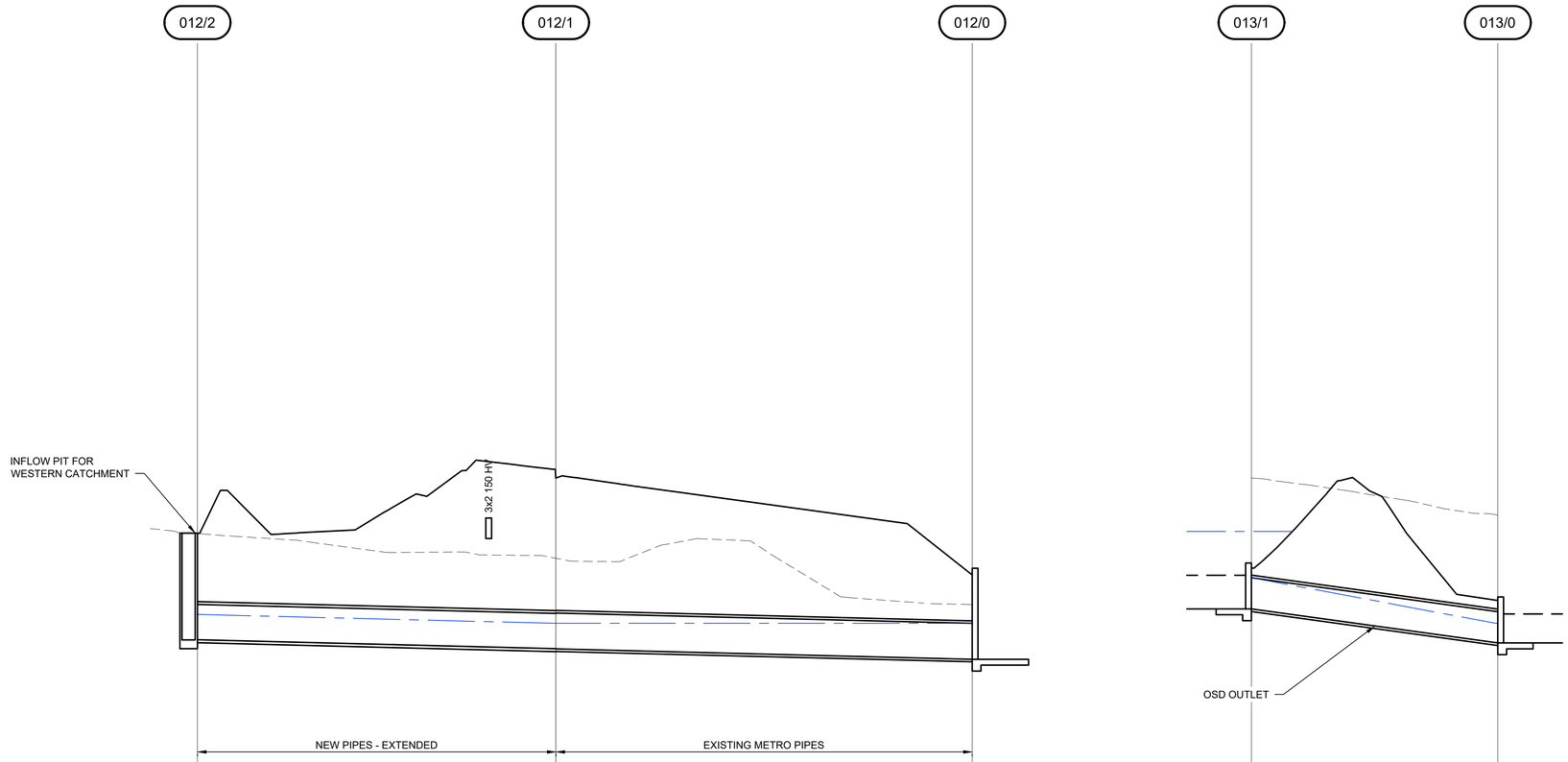
SHEET TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 08

SHEET NUMBER

60646285-SHT-00-1000-CI-0658

ISO A1 594mm x 841mm



	NEW PIPES - EXTENDED	EXISTING METRO PIPES	
PIPE FLOW (L/s) (5% AEP)	Q= 2080	Q= 2080	Q= 541
PIPE VELOCITY (m/s)	1.89	1.89	3.65
PIPE SIZE (mm) & CLASS	4x Ø600 CLASS 4 RRJ	4x Ø600 CLASS 4 RRJ	Ø525 CLASS 4 RRJ
PIPE GRADE	0.5% 1 in 200	0.5% 1 in 200	2.8% 1 in 36

DATUM (m) RL 71.000

FINISHED (& EXISTING) SURFACE LEVEL	(80.146)	80.146	81.081	(79.716)	78.930	(78.930)	(76.081)	74.551	73.299	(75.454)
HGL	78.95	78.74	78.610	73.888	73.888
INVERT LEVEL	78.333	78.180	78.177	78.000	73.857	73.278
DEPTH TO INVERT	1.813	2.900	2.904	0.930	0.694	0.021
CHAINAGE	0.000	30.492	65.896	0.000	20.948

LINE 12 LINE 13

Last saved by: SHION.WATAKABE(2023-11-09) Last Plotted: 2023-11-16
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AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 6.25 12.5 m H=1:250
0 0.5 1 V=1:50

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
6	22.05.23	ISSUED FOR CONSTRUCTION
5	14.04.23	ISSUED FOR CONSTRUCTION
4	23.01.23	ISSUED FOR DRAFT IFC
3	02.09.22	ISSUED FOR APPROVAL
2	29.04.22	ISSUED FOR TENDER
1	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

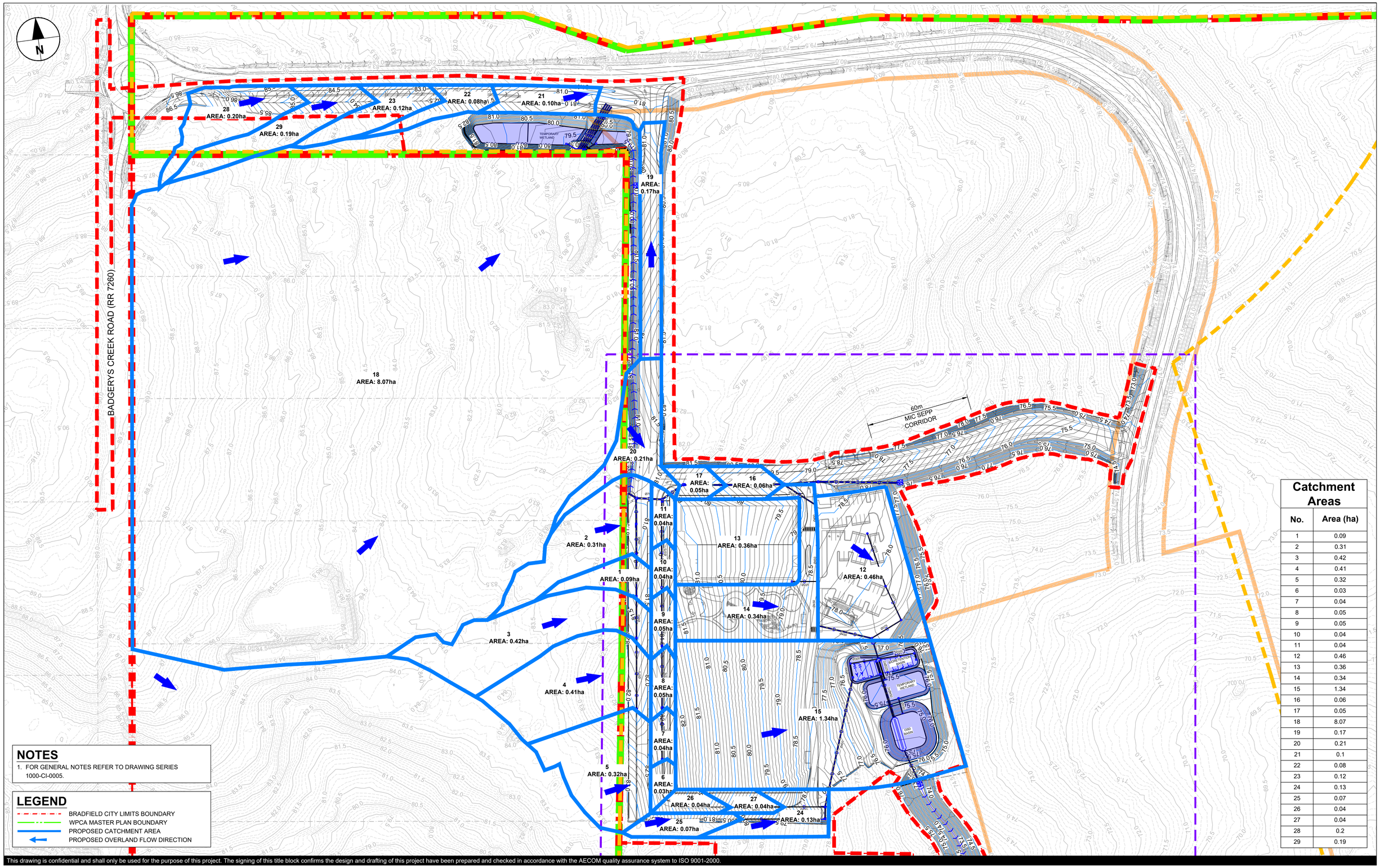
SHEET TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 09

SHEET NUMBER

60646285-SHT-00-1000-CI-0659

ISO A1 594mm x 841mm



Catchment Areas

No.	Area (ha)
1	0.09
2	0.31
3	0.42
4	0.41
5	0.32
6	0.03
7	0.04
8	0.05
9	0.05
10	0.04
11	0.04
12	0.46
13	0.36
14	0.34
15	1.34
16	0.06
17	0.05
18	8.07
19	0.17
20	0.21
21	0.1
22	0.08
23	0.12
24	0.13
25	0.07
26	0.04
27	0.04
28	0.2
29	0.19

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.

LEGEND

- BRADFIELD CITY LIMITS BOUNDARY
- WPCA MASTER PLAN BOUNDARY
- PROPOSED CATCHMENT AREA
- PROPOSED OVERLAND FLOW DIRECTION

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 25 50 m
1:1000

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
8	22.05.23	ISSUED FOR CONSTRUCTION
7	14.04.23	ISSUED FOR CONSTRUCTION
6	23.01.23	ISSUED FOR DRAFT IFC
5	02.09.22	ISSUED FOR APPROVAL
4	29.04.22	ISSUED FOR TENDER
3	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STORMWATER DRAINAGE
POST DEVELOPMENT
CATCHMENT PLAN

SHEET NUMBER

60646285-SHT-00-1000-CI-0671

ISO A1 594mm x 841mm

BIORETENTION SYSTEM MEDIA PROPERTIES

1. A TYPICAL BIORETENTION SYSTEM HAS 3 LAYERS; A DRAINAGE LAYER, A TRANSITION LAYER AND THE FILTER MEDIA LAYER. GEOFABRIC IS NOT TO BE PLACED BETWEEN THE LAYERS OF MEDIA, OR SOCKS PLACED ON SUB-SOIL DRAINAGE. THE MEDIA SHOULD BE PLACED IN LIFTS NO DEEPER THAN 250mm THICK AND LIGHTLY COMPACTED. A MAXIMUM OF ONE PASS WITH A SMALL VIBRATING COMPACTOR OR EQUIVALENT. EQUIPMENT SHOULD NOT BE USED FOR MEDIA PLACEMENT THAT WOULD INADVERTANTLY COMPACT THE LAYERS AND AFFECT THE INFILTRATION RATES OF WATER THROUGH THE MEDIA.

FILTER MEDIA SPECIFICATIONS

1. THE FILTER MEDIA IS THE TOP LAYER AND THE GROWING MEDIUM. MEDIA SHALL BE IN ACCORDANCE WITH THE PROPERTIES LISTED IN TABLE 3 ADOPTION GUIDELINES FOR STORMWATER BIOFILTRATION SYSTEMS (CRC FOR WSC, 2015). AS MODIFIED BELOW:

DEPTH	500mm TYP BUT VARIES DEPENDING ON SYSTEM SCALE AND SIZE
MATERIAL	EITHER AN ENGINEERED MATERIAL - A WASHED, WELL GRADED SAND - OR NATURALLY OCCURRING SAND, A MIXTURE IS PERMITTED. IT SHOULD BE FREE OF RUBBISH AND WEEDS AND NOT BE HYDROPHOBIC. AN APPROVED FILTER MEDIA IS THE (M165) MEDIA FROM BENEDICT SAND AND GRAVEL OR APPROVED EQUIVALENT.
HYDRAULIC CONDUCTIVITY	HYDRAULIC CONDUCTIVITY: A TARGET, AS BUILT OR IN-SITU SATURATED HYDRAULIC CONDUCTIVITY RATE OF THE FILTER MEDIA SHALL BE A MINIMUM OF 100mm/Hr. THE EX-SITU (EX BIN) RATE SHALL BE A MINIMUM OF 250mm/hr AND VERIFIED, WITH INDEPENDENT NATA REGISTERED LABORATORY TEST DATA NO LONGER THAN ONE MONTH OLD.
PH	5.5 - 7 AS SPECIFIED FOR "NATURAL SOILS AND BLENDS" (PH : IN WATER)
ELECTRICAL CONDUCTIVITY	<1.2 DS/M AS SPECIFIED FOR "NATURAL SOILS AND BLENDS"
NUTRIENT CONTENT	LOW NUTRIENT CONTENT TOTAL NITROGEN (TN) < 1000 mg/kg NITROGEN DRAWDOWN > 0.5 (NDI) AVAILABLE PHOSPHATE (COLWELL) < 80mg/kg ORTHOPHOSPHATE < 40 mg/kg (IN BOTH STANDARD OR SATURATED SYSTEMS)
GRADING OF PARTICLES	SMOOTH GRADING - ALL PARTICLE SIZE CLASSES SHOULD BE REPRESENTED ACROSS SIEVE SIZES FROM THE 0.05mm TO THE 3.4mm SIEVE AS PER ASTM F 1632-03 (2010). ACCEPTABLE RANGE (%W/W) RETAINED CLAY & SILT < 3% (< 0.05 mm) VERY FINE SAND 5-30% (0.05 - 0.15 mm) FINE SAND 10-30% (0.15 - 0.25 mm) MEDIUM SAND 40-60% (0.25 - 0.5 mm) COARSE SAND < 25% (0.5 - 1.0 mm) VERY COARSE SAND 0-10% (1.0 - 2.0 mm) FINE GRAVEL < 3% (2.0 - 3.4 mm) ORGANIC CONTENT ≤ 5% IMMEDIATELY PRIOR TO DELIVERY TO SITE A PSD TEST (AS1141) SHALL BE UNDERTAKEN. IF THE PSD DOES NOT COMPLY A HYDRAULIC CONDUCTIVITY TEST SHALL BE UNDERTAKEN. DELIVERY SHALL NOT BE APPROVED UNTIL THE MEDIA IS APPROVED. THERE SHOULD BE NO GAP IN THE PARTICLE SIZE GRADING AND THE COMPOSITION SHOULD NOT BE DOMINATED BY A SMALL PARTICLE SIZE RANGE. ORGANIC MATTER CONTENT SHALL BE 3% TO 5% TO SUPPORT VEGETATION.

2. TO AVOID MIGRATION OF THE FILTER MEDIA INTO THE TRANSITION LAYER THE PARTICLE SIZE DISTRIBUTION SHOULD BE ASSESSED TO MEET BRIDGING CRITERIA. THE SMALLEST 15% (D_{15}) OF THE TRANSITION LAYER PARTICLES MUST BE NO GREATER THAN 5 TIMES THE SIZE OF THE LARGEST 15% (D_{85}) OF THE FILTER MEDIA PARTICLES. THAT IS:
   a. D_{15}(TRANSITION) ≤5 x D_{85}(FILTER)
   b. ALTERNATIVE MEDIA MAY BE APPROVED AT THE DISCRETION OF CERTIFYING AUTHORITY. AS A MINIMUM DETAILED MATERIAL TESTING AND DEMONSTRATED PERFORMANCE WILL BE REQUIRED. IF ANY RECYCLED MATERIAL IS TO BE USED IT MUST BE DEMONSTRATED AT THE CONTRACTOR'S EXPENSE THAT THE MATERIAL IS BOTH INERT AND FREE OF CONTAMINANTS.
   c. THE CONTRACTOR'S EXPENSE THAT THE MATERIAL IS BOTH INERT AND FREE OF CONTAMINANTS. THE CONTRACTOR SHALL ARRANGE FOR IN-SITU TESTING OF THE SPECIFIED HYDRAULIC CONDUCTIVITY AT A RATE OF 2 TESTS PER 50m2 OR PART OF & 1 TEST PER 200m2 THEREAFTER OF FILTER MEDIA AREA FOR COMPLIANCE WITH THE ABOVE SPECIFICATION.

BATTERS

1. BATTERS SHALL BE SCARIFIED WITH A ROTARY HOE. A SOIL FERTILITY REPORT SHALL BE UNDERTAKEN BY A NATA REGISTERED LAB AND QUALIFIED HORTICULTURIST / SOIL SCIENTIST. BATTERS SHALL BE AMELIORATED TO IMPROVE FERTILITY IN ACCORDANCE WITH SOIL FERTILITY REPORT. ALTERNATIVELY REMOVE TOP 200mm OF TOPSOIL AND REPLACE WITH AN IMPORTED TOPSOIL COMPLIANT WITH AS4419.

TRANSITION LAYER (MIDDLE) SPECIFICATION

1. THE PURPOSE OF THE TRANSITION LAYER IS TO PREVENT THE MIGRATION OF THE FILTER MEDIA INTO THE DRAINAGE LAYER. IT CREATES A LAYER BETWEEN THE FILTER MEDIA AND THE DRAINAGE LAYER. THE LAYER DEPTH IS TO BE A MIN OF 400mm THICK, IN A SATURATED SYSTEM.
2. THE MATERIAL MUST BE CLEAN, WELL GRADED SAND/COARSE MATERIAL CONTAINING LITTLE OR NO FINES. USE OF WELL WASHED RECYCLED GLASS IS ACCEPTABLE. AN INDICATIVE PARTICLE SIZE DISTRIBUTION IS BETWEEN 0.5mm AND 1.4mm. FINE PARTICLE CONTENT <2%. IN ADDITION TO BRIDGING CRITERIA, THE D15 (TRANSITION) ≥ D15 (FILTER) x 5, THIS CRITERIA ENSURES GREATER HYDRAULIC CONDUCTIVITY OF THE TRANSITION LAYER THAN THE MEDIA.
3. THE CONTRACTOR SHALL ARRANGE FOR TESTING OF THE PSD & COMPLIANCE WITH BRIDGING CRITERIA & HYDRAULIC CONDUCTIVITY OF A RATE OF 1 TEST PER 1000m2 OF FILTER MEDIA AREA.

DRAINAGE LAYER SPECIFICATION

1. THIS LAYER COLLECTS STORES AND CONVEYS TREATED STORMWATER INTO A SLOTTED COLLECTION PIPE BEDDED INTO THE DRAINAGE LAYER. IT CONSISTS OF A CLEAN GRAVEL 5-7mm WASHED SCREENINGS (NOT SCORIA).
2. THE LAYER DEPTH SHALL MAINTAIN A MINIMUM 50mm COVER OVER THE SUB SURFACE DRAINAGE PIPE. RECYCLED CONCRETE OR BRICK PRODUCTS WILL NOT BE ACCEPTED.
3. BRIDGING CRITERIA AS FOLLOWS APPLIES: THE D15 (DRAINAGE LAYER) ≤ 5 x D85 (TRANSITION LAYER) HYDRAULIC CONDUCTIVITY CRITERIA APPLIES AS FOLLOWS:
4. THE D15 (DRAINAGE LAYER) ≥ D15 (TRANSITION) x 5 THE CONTRACTOR SHALL ARRANGE FOR TESTING OF THE PSD & COMPLIANCE WITH BRIDGING CRITERIA & HYDRAULIC CONDUCTIVITY OF A RATE OF 1 TEST PER 1000m2 OF FILTER MEDIA AREA & AND MINIMUM OF 1 TEST.

LINERS

1. ALL BIORETENTION SYSTEMS ARE TO BE LINED TO RETAIN WATER. LINING CAN INCLUDE CLAY LINING (MIN. 300mm COMPACTED THICKNESS), HDPE WATERTIGHT MEMBRANE 1.5mm THICK, GEOSYNTHETIC CLAY LINERS (I.E. BENTOFIX). THE LINER IS TO EXTEND TO THE SURFACE OF THE MEDIA LAYER WHERE NO BUILDINGS ARE LOCATED NEXT TO THE SYSTEM. IF BUILDINGS ARE LOCATED NEXT TO THE SYSTEM THE LINER IS TO BE ATTACHED 100mm ABOVE THE EXTENDED DETENTION DEPTH TO THE SIDE OF THE BUILDING.
2. INSTALL A LAYER OF NON-WOVEN NEEDLE PUNCHED GEOFABRIC, SUCH AS BIDIM A34 OR APPROVED EQUIVALENT, UNDER AND OVER HDPE LINERS, TO MINIMISE THE RISK OF DAMAGE CAUSED BY ROCKS IN THE SUBSOIL. ALL HDPE LINERS SHALL HAVE WELDED WATER ACCORDANCE WITH THE DETAILS SHOWN IN THESE DRAWINGS.

SUB SURFACE DRAINAGE PIPES

1. SYSTEMS > 60m LONG NEED INTERMEDIATE FLUSHING POINTS AND RISERS. THE PIPES WITHIN THE BIORETENTION SYSTEM SHOULD BE A MINIMUM 90mm (UNO) DIAMETER UPP SLOTTED PIPE (CONSISTENT WITH AS/NZS 1254) WITH MINIMUM 1,500mm² OPENINGS/m. JOINTS TO BE RUBBER RING JOINT, BENDS SHOULD BE 45° TO ENSURE THAT THE PIPE CAN BE FLUSHED. SLOTS SHALL BE A MAXIMUM OF 4mm WIDE.
2. CORRUGATED PLASTIC PIPE (I.E. 'AG' PIPE) IS NOT ACCEPTABLE DUE TO THE RISK OF COMPRESSION FAILURE AND ROOT PENETRATION. THE PIPES SHALL BE AT A SPACED AT A MAXIMUM OF 3m CENTRES.
3. FOR LARGE SYSTEMS, THE STANDARD DRAWINGS ADOPT DIA 150mm PIPES SPACED AT 3m CENTRES WHICH MEETS THIS CRITERIA.

VEGETATION, SHADING AND MULCHING

03

1. PLANTING OF BIORETENTION AND WETLAND BASINS ARE TO BE AS PER THE PLANTING LIST OF WSPP ENGINEERING MANUAL SHEET 13 AND TO BE COORDINATED WITH THE LANDSCAPE ARCHITECT.
2. ~~PLANTS IN 50mm TUBES OR HIRO CELLS ARE SUITABLE FOR PLANTING IN BIORETENTION SYSTEMS. ESTABLISHMENT~~ WATERING WILL BE REQUIRED.
3. PLANTS WILL NEED TO BE PRE-ORDERED EARLY IN THE DESIGN PROCESS TO ENSURE THEY ARE AVAILABLE AT THE DESIRED TIME. ALL PLANTS SHALL BE VIGOROUS AND HEALTHY AND FREE FROM ROOT BALLING AND WEEDS. THE PLANTS SHALL BE POTTED ON IF A DELAY OCCURS.
4. BIORETENTION SYSTEMS SHALL NOT BE MULCHED. IF MULCH IS USED ON ADJACENT BATTERS IT SHALL BE PLACED SO THAT IT WILL NOT BE WASHED INTO THE BIORETENTION SYSTEM.
5. DURING ESTABLISHMENT EROSION OF THE BOTTOM OF ACCESS RAMPS & AROUND ALL SURCHARGE PITS SHALL BE CONTROLLED USING JUTE.

INSPECTION/HOLD POINTS

STAGE	INSPECTION AND HOLD POINTS
2	COMPLETION OF BASIN BULK EARTHWORKS AND INSPECTION OF SUBGRADE INCLUDING REMOVAL OF ALL SEDIMENT.
2	INSTALLATION OF GEOTEXTILE AND LINER AS APPROPRIATE.
2	INSTALLATION OF INLET PITS AND PIPES.
2	INSTALLATION OF OUTLET PIT AND PIPES
2	INSTALLATION OF SLOTTED PIPES AND FLUSHING POINTS.
2	PRIOR TO PURCHASE OF BIORETENTION MEDIA, TRANSITION AND DRAINAGE LAYER, PROVIDE TEST RESULTS. INCLUDING PSD IMMEDIATELY PRIOR TO DELIVERY.
2	INSTALLATION OF DRAINAGE LAYER. INCLUDING PSD IMMEDIATELY PRIOR TO DELIVERY.
3	INSTALLATION OF TRANSITION LAYER (250mm). INCLUDING PSD IMMEDIATELY PRIOR TO DELIVERY.
3	INSTALLATION OF GEOTEXTILE A16 OR SIMILAR.
3	INSTALLATION OF SACRIFICIAL MEDIA LAYER & TURF.
3	REMOVAL OF SACRIFICIAL LAYER AND GEOTEXTILE.
3	INSTALLATION OF UPFLOW PITS.
3	INSTALLATION OF PERMEABLE CONCRETE PIPES.
3	INSTALLATION OF REMAINING 200mm OF TRANSITION LAYER. INCLUDING PSD IMMEDIATELY PRIOR TO DELIVERY.
3	INSTALLATION OF FILTER MEDIA.
3	COMPLETED WORKS, INCLUDING SCOUR PADS.
3	INSITU TESTING OF FILTER MEDIA HYDRAULIC CONDUCTIVITY USING DOUBLE RING INFILTROMETER BY NATA REGISTERED OR AN APPROVED TESTER.
3	CERTIFICATION OF PLANT SPECIES AND DENSITY BY HORTICULTURIST / ECOLOGIST / LANDSCAPE ARCHITECT / ENVIRONMENTAL ENGINEER.

1. AT EACH STAGE, CHECK THE FINISHED LEVELS AS WELL AS THE QUALITY OF COMPLETED WORK.THE PRINCIPAL SHALL PROVIDE CERTIFICATION VERIFYING INSTALLATION AND COMPLIANCE AT EACH STAGE.

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	15.08.23	ISSUED FOR CONSTRUCTION
2	25.05.23	ISSUED FOR CONSTRUCTION
1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

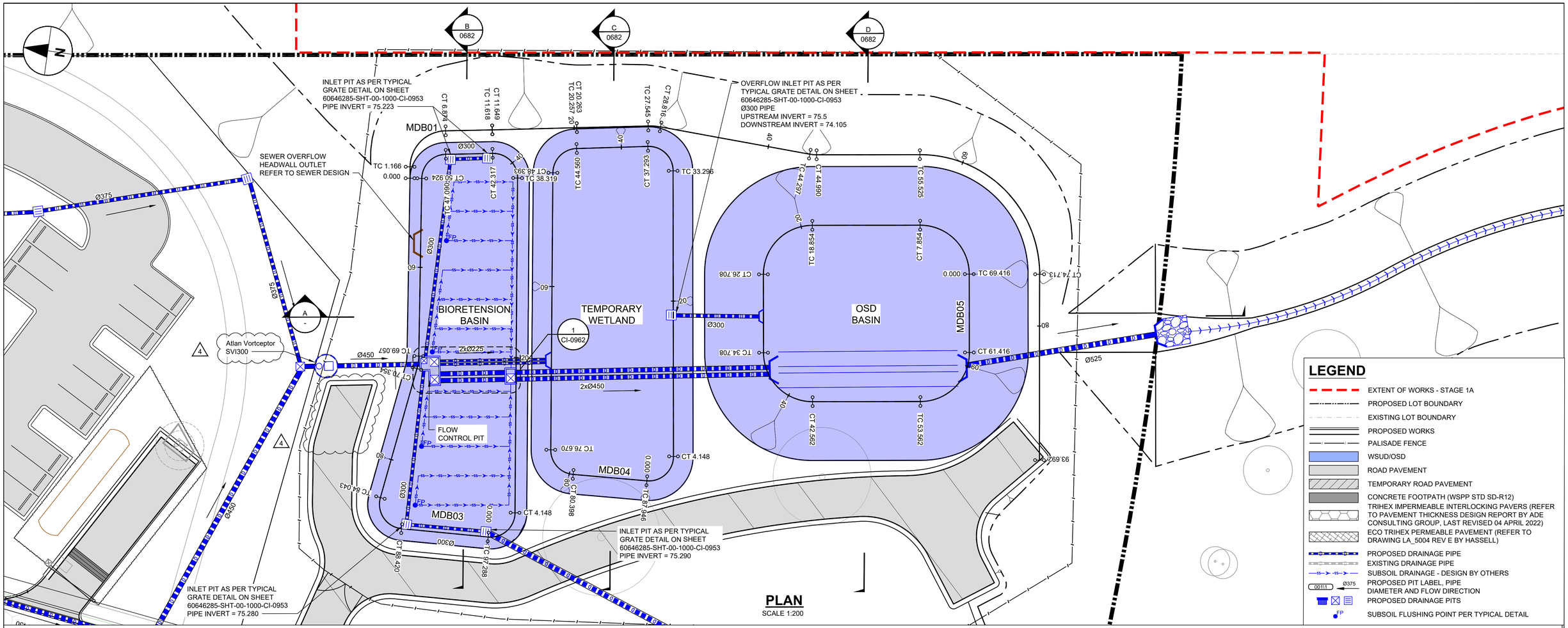
SHEET TITLE

BIORETENTION BASIN NOTES

SHEET NUMBER

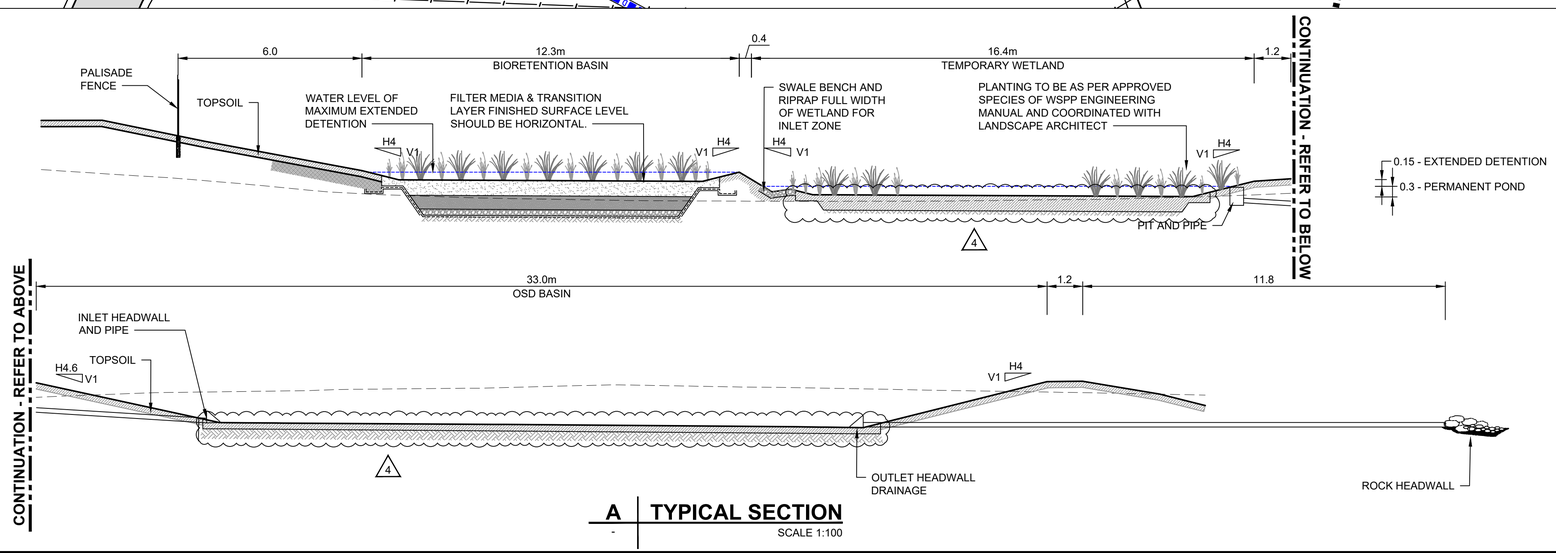
60646285-SHT-00-1000-CI-0680

ISO A1 594mm x 841mm



LEGEND

- EXTENT OF WORKS - STAGE 1A
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED WORKS
- PALISADE FENCE
- WSUD/OSD
- ROAD PAVEMENT
- TEMPORARY ROAD PAVEMENT
- CONCRETE FOOTPATH (WSPP STD SD-R12)
- TRIHEX IMPERMEABLE INTERLOCKING PAVERS (REFER TO PAVEMENT THICKNESS DESIGN REPORT BY ADE CONSULTING GROUP, LAST REVISED 04 APRIL 2022)
- ECO TRIHEX PERMEABLE PAVEMENT (REFER TO DRAWING LA_5004 REV E BY HASSELL)
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- SUBSOIL DRAINAGE - DESIGN BY OTHERS
- 00111 Ø375 PROPOSED PIT LABEL, PIPE DIAMETER AND FLOW DIRECTION
- PROPOSED DRAINAGE PITS
- FP SUBSOIL FLUSHING POINT PER TYPICAL DETAIL



A - TYPICAL SECTION

SCALE 1:100

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CONSULTANT

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 2.5 5 m
1:100

0 5 10 m
1:200

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
4	16.02.24	ISUED FOR CONSTRUCTION
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2	14.04.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

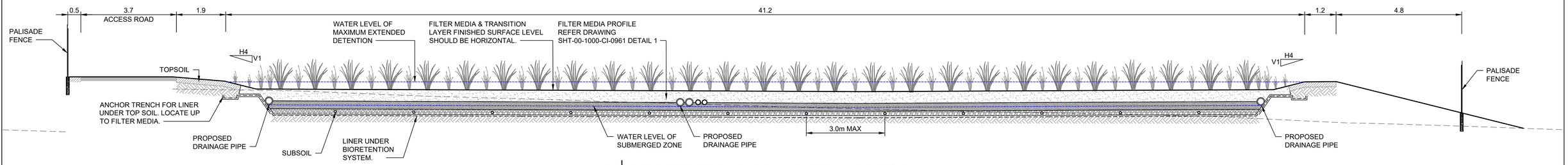
SHEET TITLE

WSUD/OSD BASIN PLAN AND TYPICAL SECTION SHEET 01

SHEET NUMBER

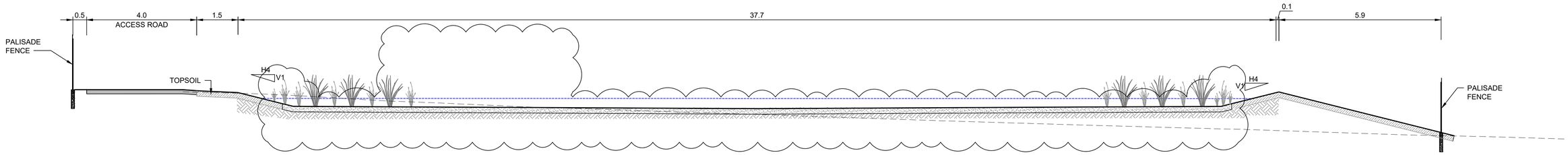
60646285-SHT-00-1000-CI-0681

ISO A1 594mm x 841mm



B | BIORETENTION BASIN - TYPICAL SECTION

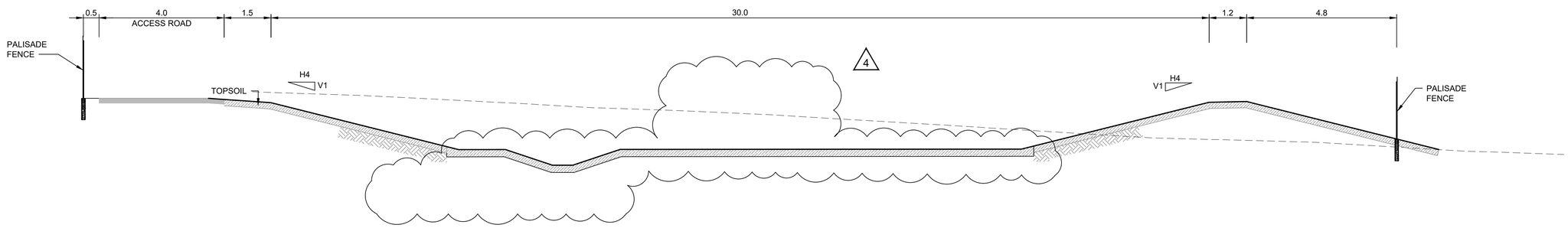
CI-0681 SCALE 1:75



C | TEMPORARY WETLAND - TYPICAL SECTION

CI-0681 SCALE 1:75

4



D | OSD BASIN - TYPICAL SECTION

CI-0681 SCALE 1:75

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 1.875 3.75 m
1:75

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

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4	16.02.24	ISUED FOR CONSTRUCTION
3	22.05.23	ISSUED FOR CONSTRUCTION
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1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

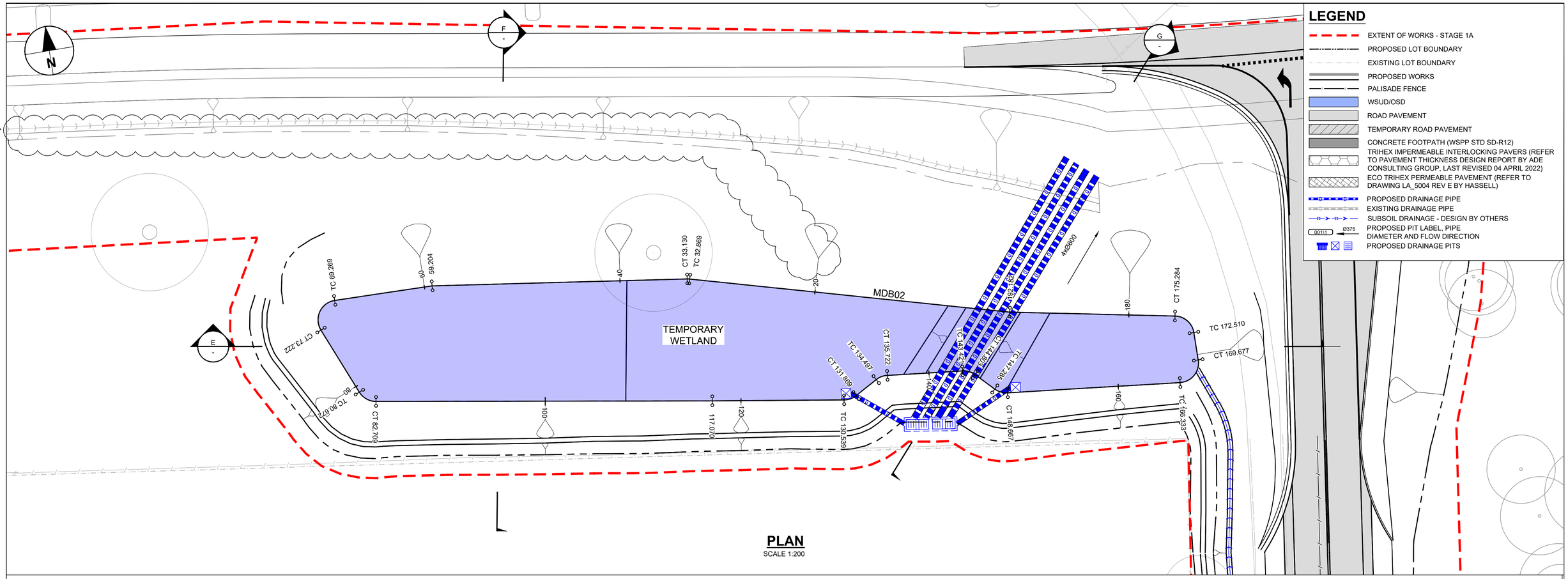
SHEET TITLE

WSUD/OSD BASIN PLAN AND TYPICAL SECTION SHEET 02

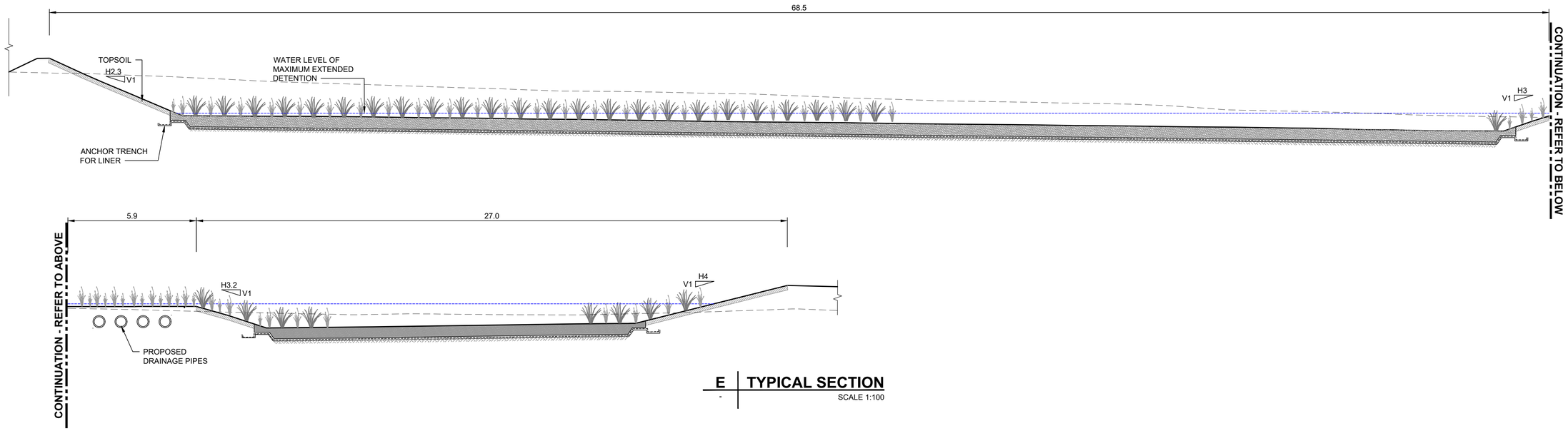
SHEET NUMBER

60646285-SHT-00-1000-CI-0682

ISO A1 594mm x 841mm



PLAN
SCALE 1:200



E | TYPICAL SECTION
SCALE 1:100

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CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 2.5 5 m
1:100

0 5 10 m
1:200

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
4	08.11.23	FOR APPROVAL
3	22.05.23	ISSUED FOR CONSTRUCTION
2	14.04.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

PROJECT NUMBER

60646285

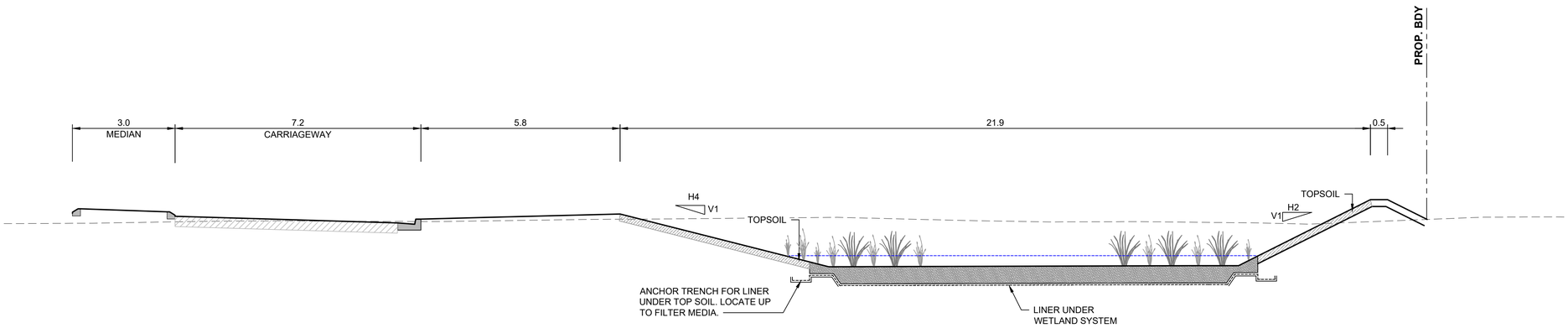
SHEET TITLE

WSUD/OSD BASIN PLAN AND TYPICAL SECTION SHEET 03

SHEET NUMBER

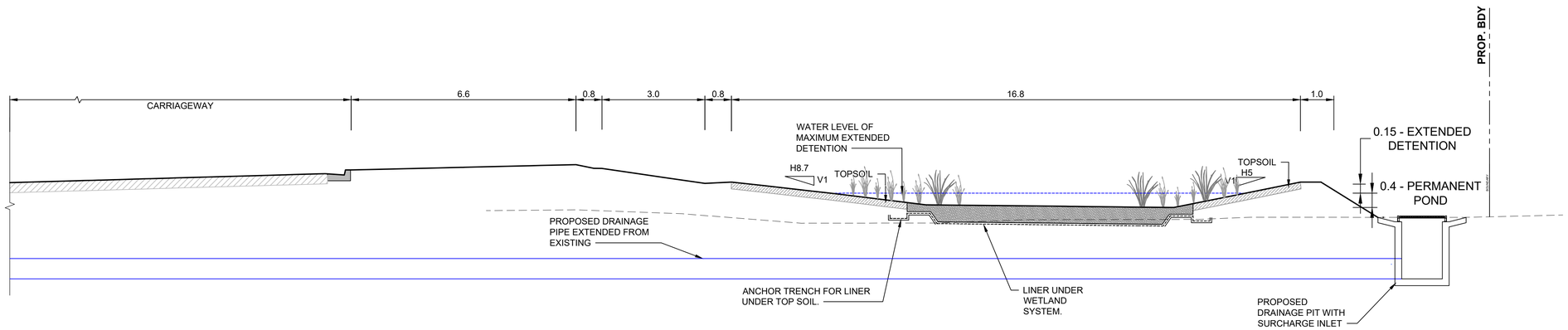
60646285-SHT-00-1000-CI-0683

ISO A1 594mm x 841mm



F | TYPICAL SECTION

CI-0682 SCALE 1:75



G | TYPICAL SECTION

CI-0682 SCALE 1:75

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CONSULTANT

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 1.875 3.75 m
1:75

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	14.04.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

WSUD/OSD BASIN PLAN AND TYPICAL SECTION SHEET 04

SHEET NUMBER

60646285-SHT-00-1000-CI-0684

ISO A1 594mm x 841mm

MODEL : CONTROL 0500 DRAINAGE - STRING : MDB01

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290574.011	6244205.835	76.320	82°16'14.54"	LINE		
TC	1.166	290575.166	6244205.992	76.319	82°16'14.54"	ARC	3.700	5.708
CT	6.874	290579.314	6244202.926	76.317	170°40'04.50"	LINE		4.744
TC	11.618	290580.084	6244198.245	76.309	170°40'04.50"	ARC	-6.200	0.032
CT	11.649	290580.089	6244198.213	76.309	170°22'25.90"	LINE		8.608
TC	20.257	290581.528	6244189.727	76.069	170°22'25.90"	ARC	3.800	0.006
CT	20.263	290581.529	6244189.721	76.069	170°27'47.52"	LINE		7.281
TC	27.545	290582.736	6244182.540	76.029	170°27'47.52"	ARC	6.200	1.272
CT	28.816	290582.817	6244181.273	76.029	182°12'57.02"	LINE		15.481
TC	44.297	290582.218	6244165.804	76.194	182°12'57.02"	ARC	-3.800	0.692
CT	44.990	290582.254	6244165.113	76.195	171°46'35.38"	LINE		10.536
TC	55.525	290583.761	6244154.686	76.134	171°46'35.38"	ARC	12.200	19.188
CT	74.713	290573.408	6244140.863	76.066	261°53'25.45"	LINE		18.978
End	93.692	290554.619	6244138.186		261°53'25.45"			

MODEL : CONTROL 0500 DRAINAGE - STRING : MDB02 (CLOSED)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290434.491	6244527.502	80.200	285°17'20.38"	LINE		
TC	32.869	290402.785	6244536.169	79.827	285°17'20.38"	ARC	-2.000	0.260
CT	33.130	290402.530	6244536.221	79.829	277°49'42.70"	LINE		26.075
Point	59.204	290376.698	6244539.773	80.043	270°51'17.64"	LINE		10.065
TC	69.269	290366.635	6244539.923	80.124	270°51'17.64"	ARC	-2.000	3.953
CT	73.222	290364.756	6244537.162	80.148	157°37'12.36"	LINE		7.451
TC	80.672	290367.592	6244530.272	80.186	157°37'12.36"	ARC	-2.000	2.036
CT	82.709	290369.119	6244529.060	80.196	99°16'57.70"	LINE		34.361
Point	117.070	290403.030	6244523.517	79.682	98°58'32.89"	LINE		13.470
TC	130.539	290416.335	6244521.416	79.475	98°58'32.89"	ARC	-2.000	1.329
CT	131.869	290417.620	6244521.644	79.454	60°53'29.27"	LINE		2.628
TC	134.497	290419.916	6244522.923	79.414	60°53'29.27"	ARC	2.000	1.225
CT	135.722	290421.098	6244523.164	79.395	95°59'29.39"	LINE		7.698
TC	143.421	290428.754	6244522.361	80.121	95°59'29.39"	ARC	2.000	1.382
CT	144.803	290429.974	6244521.771	80.121	135°35'41.79"	LINE		2.482
TC	147.285	290431.711	6244519.998	79.499	135°35'41.79"	ARC	-2.000	1.382
CT	148.667	290432.931	6244519.408	79.137	95°59'33.08"	LINE		17.666
TC	166.333	290450.500	6244517.564	79.402	95°59'33.08"	ARC	-2.000	3.344
CT	169.677	290452.709	6244519.546	79.396	0°12'26.77"	LINE		2.834
TC	172.510	290452.719	6244522.380	79.366	0°12'26.77"	ARC	-2.000	2.774
CT	175.284	290451.092	6244524.352	79.337	280°44'38.49"	LINE		16.898
End	192.182	290434.491	6244527.502	80.200	280°44'38.49"			

MODEL : CONTROL 0500 DRAINAGE - STRING : MDB03 (CLOSED)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290538.888	6244192.756	76.017	177°21'24.93"	ARC		
CT	4.148	290541.721	6244190.394	75.997	82°17'36.19"	LINE		34.171
TC	38.319	290575.583	6244194.977	75.972	82°17'36.19"	ARC	-2.500	3.998
CT	42.317	290577.715	6244197.859	75.992	350°40'04.50"	LINE		4.773
TC	47.090	290576.941	6244202.570	76.016	350°40'04.50"	ARC	-2.500	3.834
CT	50.924	290574.161	6244204.645	76.020	262°48'36.99"	LINE		18.134
TC	69.057	290556.170	6244202.375	75.980	262°48'36.99"	ARC	5.000	1.297
CT	70.354	290554.876	6244202.380	75.987	277°40'21.72"	LINE		13.688
TC	84.043	290541.311	6244204.208	76.061	277°40'21.72"	ARC	-2.500	4.377
CT	88.420	290538.479	6244201.615	76.062	177°21'24.93"	LINE		8.868
End	97.288	290538.888	6244192.756	76.017	177°21'24.93"			

MODEL : CONTROL 0500 DRAINAGE - STRING : MDB04 (CLOSED)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290546.858	6244177.541	75.505	176°50'24.12"	ARC		
CT	4.148	290549.712	6244175.205	75.485	81°46'35.38"	LINE		29.148
TC	33.296	290578.560	6244179.374	75.485	81°46'35.38"	ARC	-2.500	3.998
CT	37.293	290580.665	6244182.276	75.505	350°09'03.70"	LINE		7.266
TC	44.560	290579.422	6244189.435	75.541	350°09'03.70"	ARC	-2.500	3.834
CT	48.393	290576.624	6244191.485	75.540	262°17'36.19"	LINE		28.277
TC	76.670	290548.603	6244187.693	75.541	262°17'36.19"	ARC	-2.500	3.729
CT	80.398	290546.442	6244185.077	75.544	176°50'24.12"	LINE		7.548
End	87.946	290546.858	6244177.541	75.505	176°50'24.12"			

MODEL : CONTROL 0500 DRAINAGE - STRING : MDB05 (CLOSED)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
Start	0.000	290572.405	6244147.971	74.567	81°46'35.38"	ARC		
CT	7.854	290576.638	6244153.634	74.612	351°46'35.38"	LINE		11.000
TC	18.854	290575.065	6244164.521	74.674	351°46'35.38"	ARC	-5.000	7.854
CT	26.708	290569.401	6244168.755	74.700	261°46'35.38"	LINE		8.000
TC	34.708	290561.484	6244167.610	74.700	261°46'35.38"	ARC	-5.000	7.854
CT	42.562	290557.250	6244161.947	74.664	171°46'35.38"	LINE		11.000
TC	53.562	290558.824	6244151.060	74.582	171°46'35.38"	ARC	-5.000	7.854
CT	61.416	290564.487	6244146.826	74.527	81°46'35.38"	LINE		8.000
End	69.416	290572.405	6244147.971	74.567	81°46'35.38"			

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CONSULTANT

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A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	14.04.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

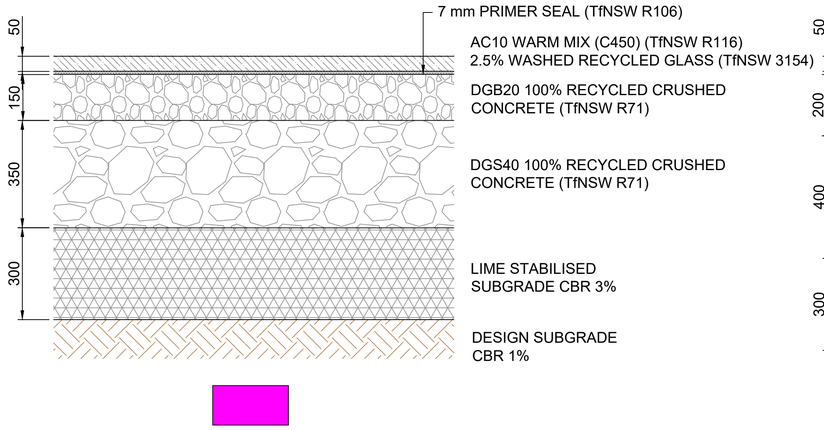
WSUD/OSD BASIN PLAN AND SETOUT TABLE

SHEET NUMBER

60646285-SHT-00-1000-CI-0691

ISO A1 594mm x 841mm

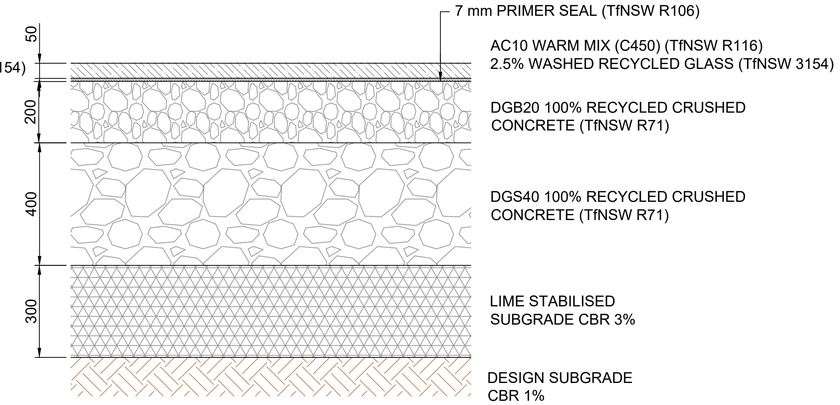
5



PAVEMENT TYPE F2

SCALE 1:10

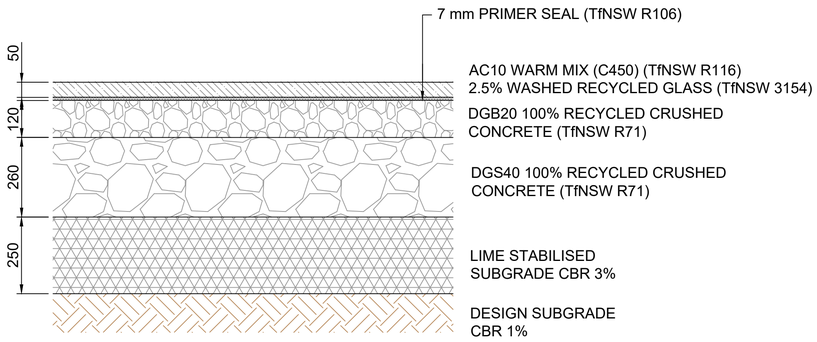
ASPHALT OVER GRANULAR
DISTRIBUTOR ROAD



PAVEMENT TYPE F3

SCALE 1:10

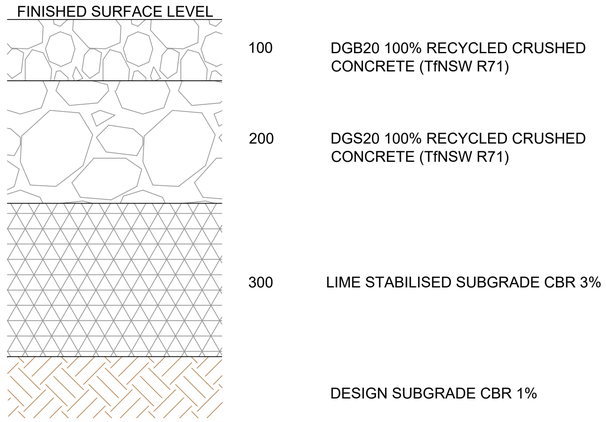
ASPHALT OVER GRANULAR
SUB-ARTERIAL STREET



PAVEMENT TYPE F4

SCALE 1:10

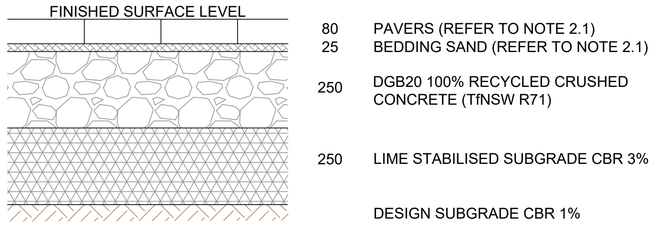
ASPHALT OVER GRANULAR
INTERNAL ROAD



PAVEMENT TYPE F5

SCALE 1:5

UNSEALED TEMPORARY
CARPARK (REFER NOTE 5.3)



PAVEMENT TYPE F6

SCALE 1:10

FLEXIBLE SEGMENTAL PAVERS

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AECOM

CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 125 250 mm
1:5
0 250 500 mm
1:10

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	08.11.23	FOR APPROVAL
4	15.08.23	ISSUED FOR CONSTRUCTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	04.05.23	ISSUED FOR CONSTRUCTION
1	05.04.22	DRAFT TENDER COORDINATION

PROJECT NUMBER

60646285

SHEET TITLE

PAVEMENT DETAILS
SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-CI-0911

ISO A1 594mm x 841mm

04

FINISHED SURFACE LEVEL

150 COMPACTED CRUSHED SANDSTONE

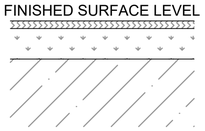
COMPACTED SUBGRADE OR
EXISTING MATERIAL (TfNSW R44)

PAVEMENT TYPE F7

SCALE 1:5

TEMPORARY ACCESS ROAD

FINISHED SURFACE LEVEL



25 TURF

100 TURF UNDERLAY (TFNSW R179)

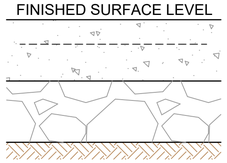
COMPACTED SUBGRADE MATERIAL

PAVEMENT TYPE - TF

SCALE 1:10

TURF

FINISHED SURFACE LEVEL



100 25 MPa CONCRETE WITH SL82 MESH
(WSPP SD-R11)

04

100 DGS20 100% RECYCLED CRUSHED
CONCRETE (TfNSW R71)

DESIGN SUBGRADE CBR 1%

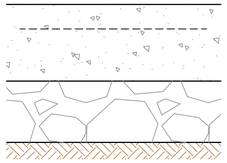
PAVEMENT TYPE - FP1

SCALE 1:5

PEDESTRIAN FOOTPATH

04

FINISHED SURFACE LEVEL



125 25 MPa CONCRETE WITH SL82 MESH
(WSPP SD-R11)

100 DGS20 100% RECYCLED CRUSHED
CONCRETE (TfNSW 3051)

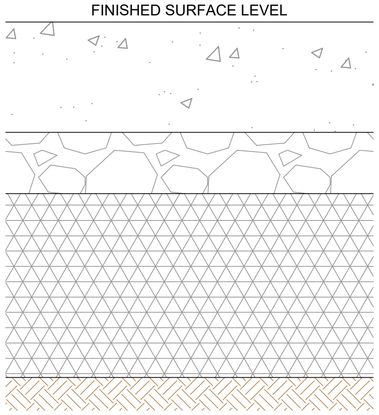
DESIGN SUBGRADE CBR 1%

PAVEMENT TYPE - BP

SCALE 1:5

BICYCLE PATH

FINISHED SURFACE LEVEL



180 PCP (TfNSW R83)

04

100 DGB20
100% RECYCLED CRUSHED CONCRETE
(TfNSW R71)

300 LIME STABILISED SUBGRADE CBR 3%

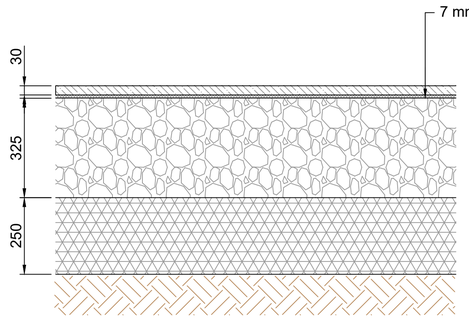
DESIGN SUBGRADE CBR 1%

PAVEMENT TYPE F8

SCALE 1:5

SEWER INTERIM
OPERATING PROCEDURE
SYSTEM ACCESS ROAD

04



7 mm PRIMER SEAL (TfNSW R106)

AC10 WARM MIX (C450) (TfNSW R116)
2.5% WASHED RECYCLED GLASS (TfNSW 3154)

DGB20 100% RECYCLED CRUSHED
CONCRETE (TfNSW R71)

LIME STABILISED
SUBGRADE CBR 3%

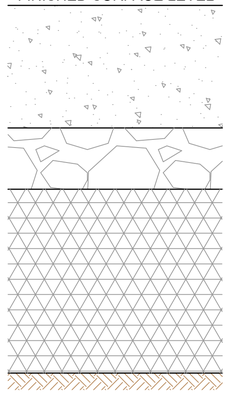
DESIGN SUBGRADE
CBR 1%

PAVEMENT TYPE F9

SCALE 1:10

TEMPORARY ASPHALT OVER
GRANULAR INTERNAL ROAD
SEE NOTE 5.5

FINISHED SURFACE LEVEL



200 PCP (TfNSW R83)

04

100 DGB20
100% RECYCLED CRUSHED CONCRETE
(TfNSW R71)

300 LIME STABILISED SUBGRADE CBR 3%

DESIGN SUBGRADE CBR 1%

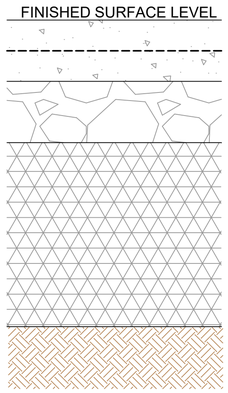
PAVEMENT TYPE - FP2

SCALE 1:5

04

CONCRETE FOOTPATH
ADJACENT SUBSTATION

FINISHED SURFACE LEVEL



100 25 MPa CONCRETE WITH SL72 MESH
(TfNSW R54)

04

100 DGS40 (TfNSW R71)
100% RECYCLED CRUSHED
CONCRETE

300 LIME STABILISED SUBGRADE CBR 3%

DESIGN SUBGRADE CBR 1%

PAVEMENT TYPE - MI

SCALE 1:5

CONCRETE MEDIAN

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CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 125 250 mm
1:5
0 250 500 mm
1:10

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

GS	CT	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
4	15.08.23	ISSUED FOR CONSTRUCTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	04.05.23	ISSUED FOR CONSTRUCTION
1	05.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

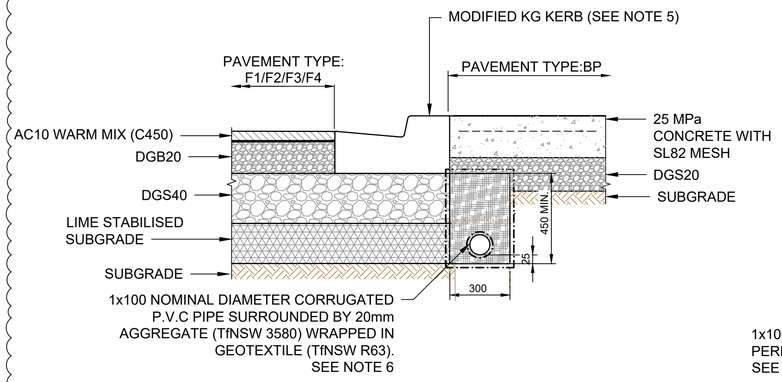
PAVEMENT DETAILS
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0912

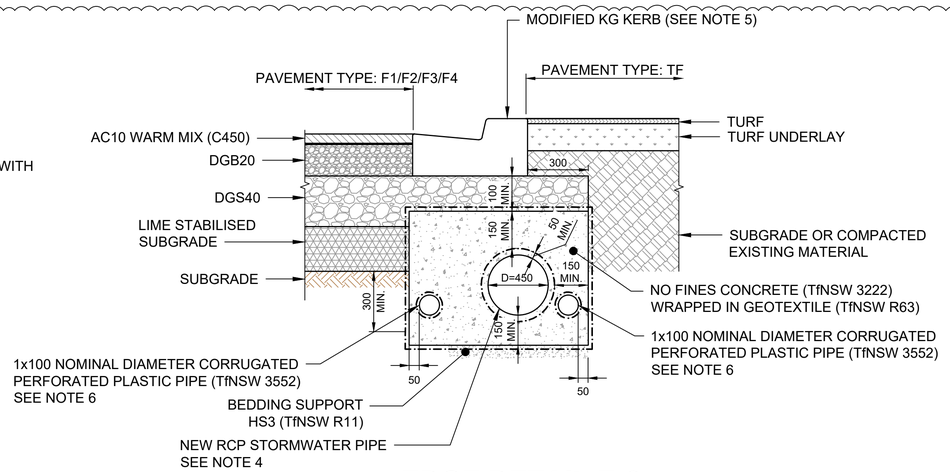
ISO A1 594mm x 841mm

04



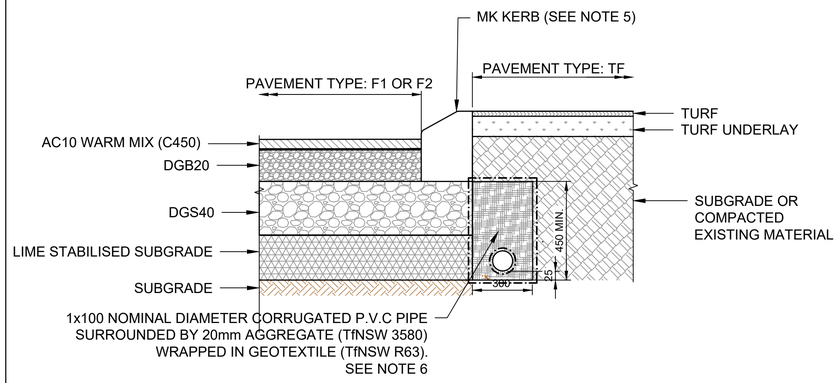
EDGE DETAIL E-1

PAVEMENT TYPE F1/F2/F3/F4 WITH MODIFIED KERB AND GUTTER AND PAVEMENT TYPE BP
NTS



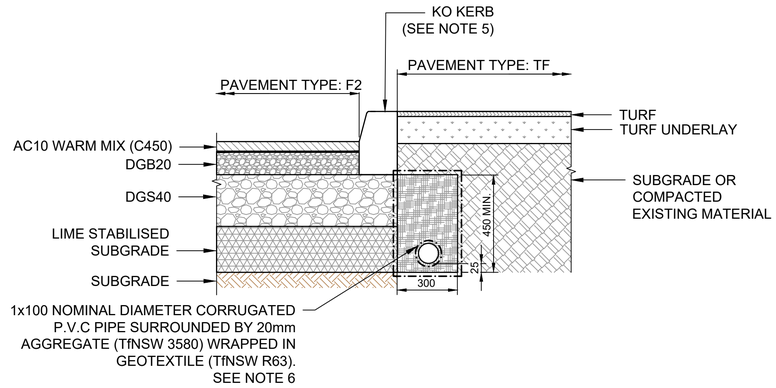
EDGE DETAIL E-2

PAVEMENT TYPE F1/F2/F3/F4 WITH MODIFIED KERB AND GUTTER AND PAVEMENT TYPE TF
NTS



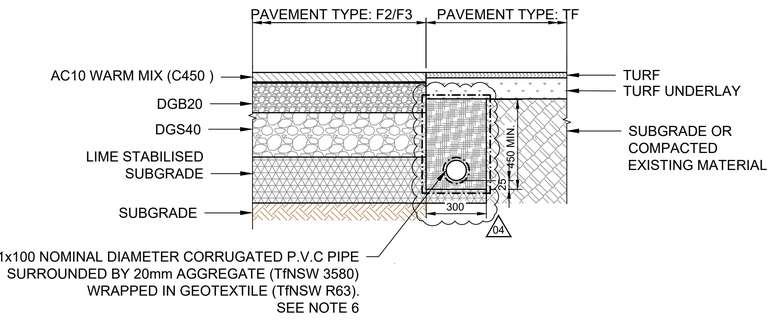
EDGE DETAIL E-3

PAVEMENT TYPE F1 OR F2 WITH MK KERB AND PAVEMENT TYPE TF
NTS



EDGE DETAIL E-4

PAVEMENT TYPE F2 WITH KERB ONLY AND PAVEMENT TYPE TF
NTS



EDGE DETAIL E-5

PAVEMENT TYPE F2/F3 AND TF
NTS

04

NOTES:

1. ALL DIMENSIONS SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. REFER TO PAVEMENT PLAN SHT-00-1000-CI-0201 AND SHT-00-1000-CI-0202 FOR LOCATION OF THE EDGE JOINT.
3. REFER TO SHEETS SHT-00-1000-CI-911 AND SHT-00-1000-CI-912 FOR PAVEMENT PROFILE DETAILS AND INTERLAYER TREATMENT.
4. REFER TO SHT-ST SERIES STORMWATER DRAINAGE DETAILS.
5. DEPTH OF KERB AT LIP OF GUTTER IS TO MATCH TOTAL AC AND DGB20 THICKNESS. FOR PAVEMENT TYPE F4 LOCALLY THICKEN DGB20 TO MATCH KERB DEPTH.
6. PROVIDE SUBSURFACE DRAIN ONLY WHERE INDICATED ON PAVEMENT PLAN DRAWINGS.

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

GS	CT	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

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1	05.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

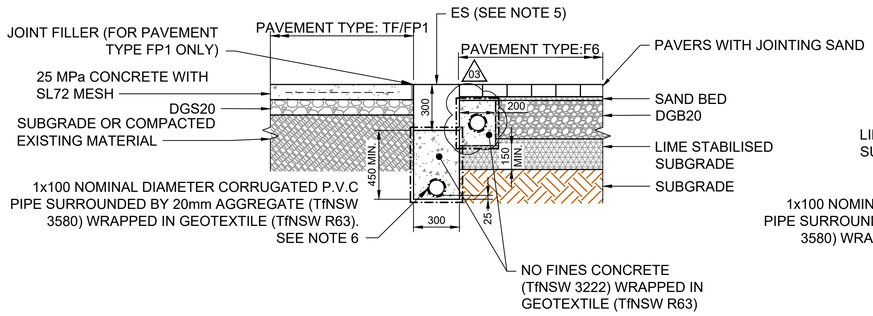
60646285

SHEET TITLE

PAVEMENT DETAILS
SHEET 03

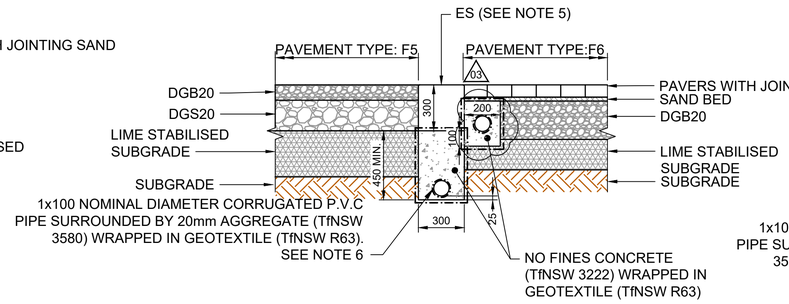
SHEET NUMBER

60646285-SHT-00-1000-CI-0913



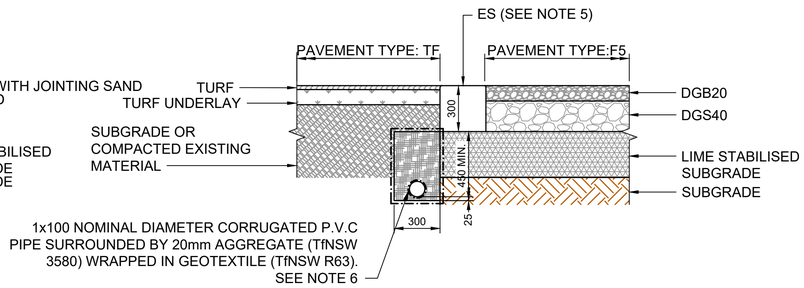
EDGE DETAIL E-6

PAVEMENT TYPE TF/FP1 WITH EDGE STRIP AND PAVEMENT TYPE F6
NTS



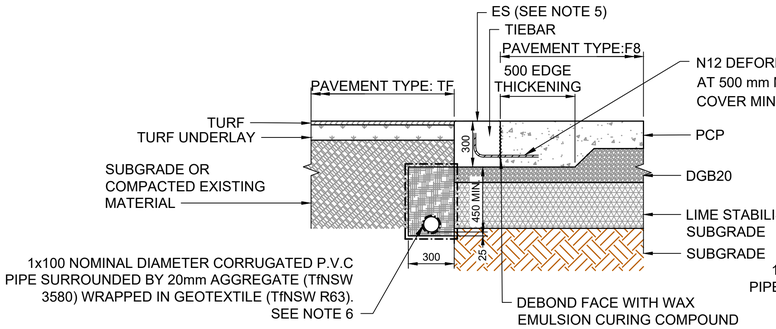
EDGE DETAIL E-7

PAVEMENT TYPE F5/F7 WITH EDGE STRIP AND PAVEMENT TYPE F6
NTS



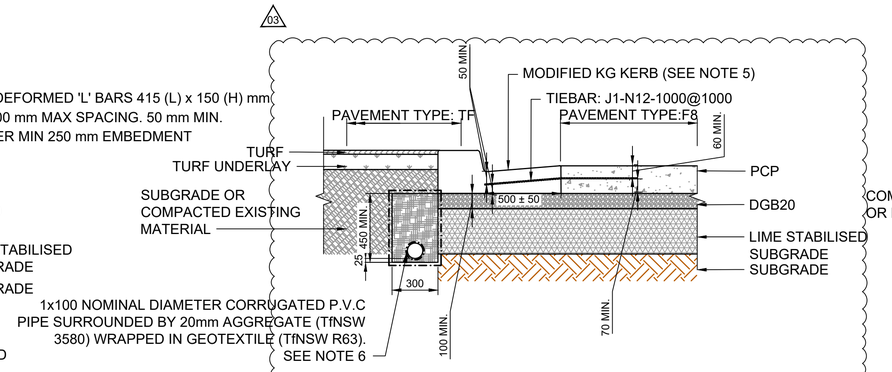
EDGE DETAIL E-8

PAVEMENT TYPE TF WITH EDGE STRIP AND PAVEMENT TYPE F5
NTS



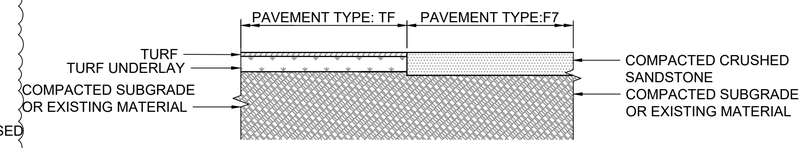
EDGE DETAIL E-9

PAVEMENT TYPE TF WITH EDGE STRIP AND PAVEMENT TYPE F8
NTS



EDGE DETAIL E-10

PAVEMENT TYPE TF WITH MODIFIED KG KERB AND PAVEMENT TYPE F8
NTS



EDGE DETAIL E-11

PAVEMENT TYPE TF WITH PAVEMENT TYPE F7
NTS

03

NOTES:

1. ALL DIMENSIONS SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. REFER TO PAVEMENT PLAN SHT-00-1000-CI-0201 AND SHT-00-1000-CI-0202 FOR LOCATION OF THE EDGE JOINT.
3. REFER TO SHEETS SHT-00-1000-CI-911 AND SHT-00-1000-CI-912 FOR PAVEMENT PROFILE DETAILS AND INTERLAYER TREATMENT.
4. REFER TO SHT-ST SERIES STORMWATER DRAINAGE DETAILS.
5. DEPTH OF KERB AT LIP OF GUTTER IS TO MATCH TOTAL AC AND DGB20 THICKNESS FOR PAVEMENT TYPE F4 LOCALLY THICKEN DGB20 TO MATCH KERB DEPTH.
6. PROVIDE SUBSURFACE DRAIN ONLY WHERE INDICATED ON PAVEMENT PLAN DRAWINGS.

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ISO A1 594mm x 841mm

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CONSULTANT

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www.aecom.com

PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

GS	CT	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	15.08.23	ISSUED FOR CONSTRUCTION
2	22.05.23	ISSUED FOR CONSTRUCTION
1	04.05.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

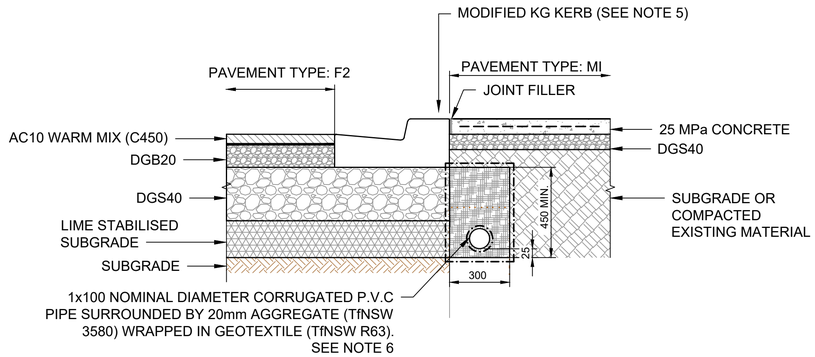
SHEET TITLE

PAVEMENT DETAILS
SHEET 04

SHEET NUMBER

60646285-SHT-00-1000-CI-0914

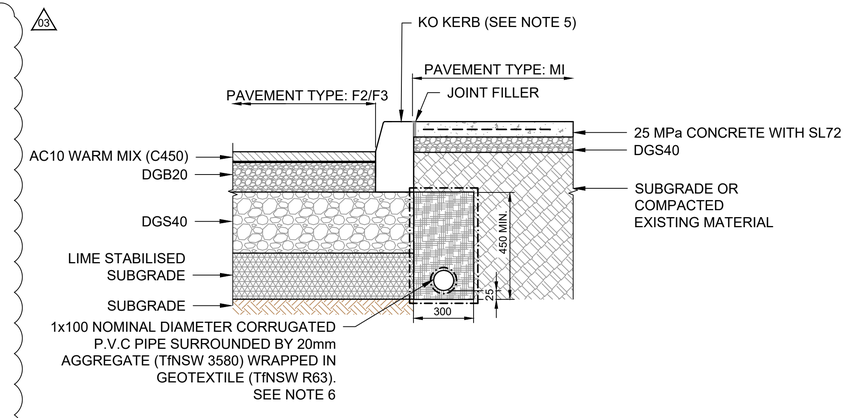
ISO A1 594mm x 841mm



EDGE DETAIL E-12

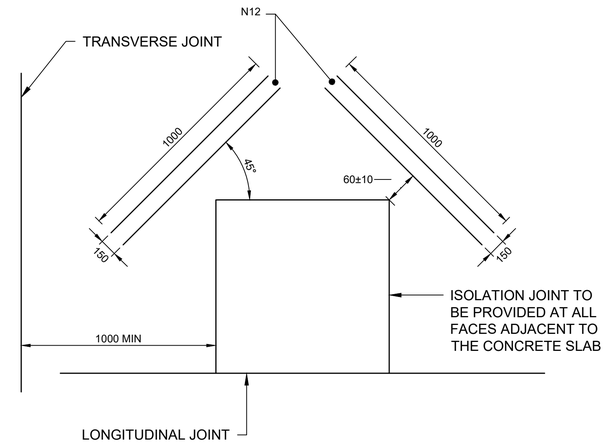
PAVEMENT TYPE F2 WITH MODIFIED KERB AND GUTTER AND PAVEMENT TYPE MI
NTS

03



EDGE DETAIL E-13

PAVEMENT TYPE F2/F3 WITH KERB ONLY AND PAVEMENT TYPE MI
NTS



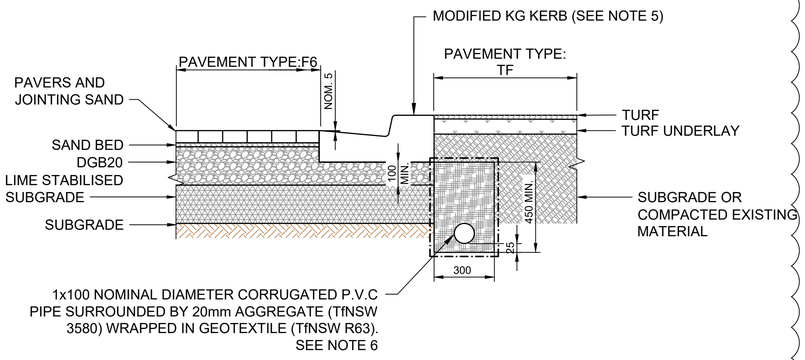
DETAIL (T)

TYPICAL TRIMMER BARS LAYOUT

SCALE - NTS

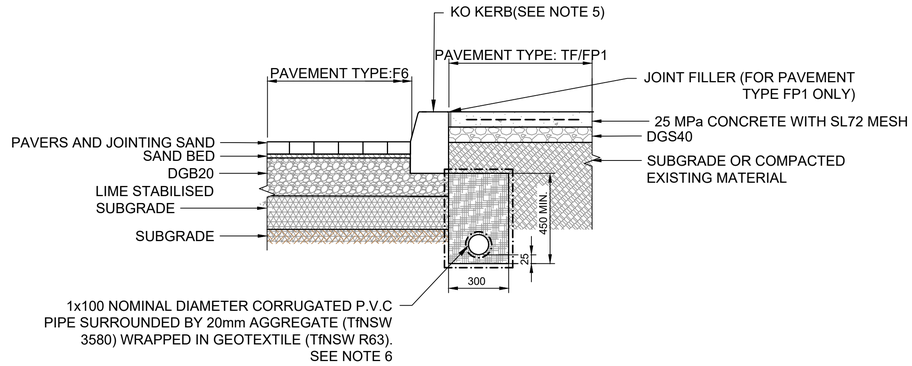
TRIMMER BAR NOTES:

1. TRIMMER BARS SHALL NOT CROSS ANY PAVEMENT JOINTS.
2. TOP TRIMMER BARS SHALL BE LOCATED ABOVE TOP MESH.
3. BOTTOM TRIMMER BARS SHALL HAVE 80 ± 20mm COVER.



EDGE DETAIL E-14

PAVEMENT TYPE F6 WITH MODIFIED KERB AND GUTTER AND PAVEMENT TYPE TF
NTS



EDGE DETAIL E-15

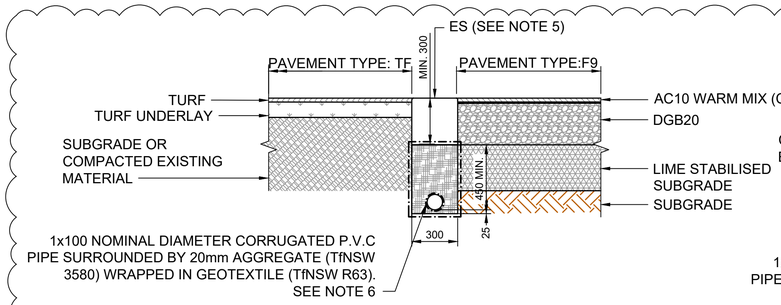
PAVEMENT TYPE F6 WITH KERB ONLY AND PAVEMENT TYPE TF/FP1
NTS

03

NOTES:

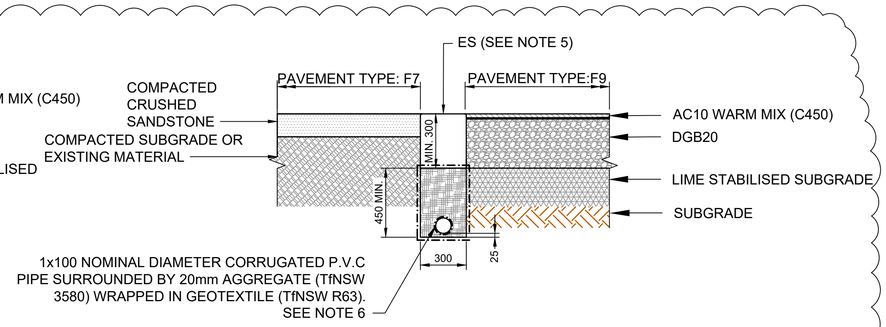
1. ALL DIMENSIONS SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. REFER TO PAVEMENT PLAN SHT-00-1000-CI-0201 AND SHT-00-1000-CI-0202 FOR LOCATION OF THE EDGE JOINT.
3. REFER TO SHEETS SHT-00-1000-CI-911 AND SHT-00-1000-CI-912 FOR PAVEMENT PROFILE DETAILS AND INTERLAYER TREATMENT.
4. REFER TO SHT-ST SERIES STORMWATER DRAINAGE DETAILS.
5. DEPTH OF KERB AT LIP OF GUTTER IS TO MATCH TOTAL AC AND DGB20 THICKNESS FOR PAVEMENT TYPE F4 LOCALLY THICKEN DGB20 TO MATCH KERB DEPTH.
6. PROVIDE SUBSURFACE DRAIN ONLY WHERE INDICATED ON PAVEMENT PLAN DRAWINGS.

03



EDGE DETAIL E-16

PAVEMENT TYPE TF WITH EDGE STRIP AND PAVEMENT TYPE F9
NTS



EDGE DETAIL E-17

PAVEMENT TYPE F7 WITH EDGE STRIP AND PAVEMENT TYPE F9
NTS

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CONSULTANT

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

GS	CT	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	15.08.23	ISSUED FOR CONSTRUCTION
2	22.05.23	ISSUED FOR CONSTRUCTION
1	04.05.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

PAVEMENT DETAILS
SHEET 05

SHEET NUMBER

60646285-SHT-00-1000-CI-0915

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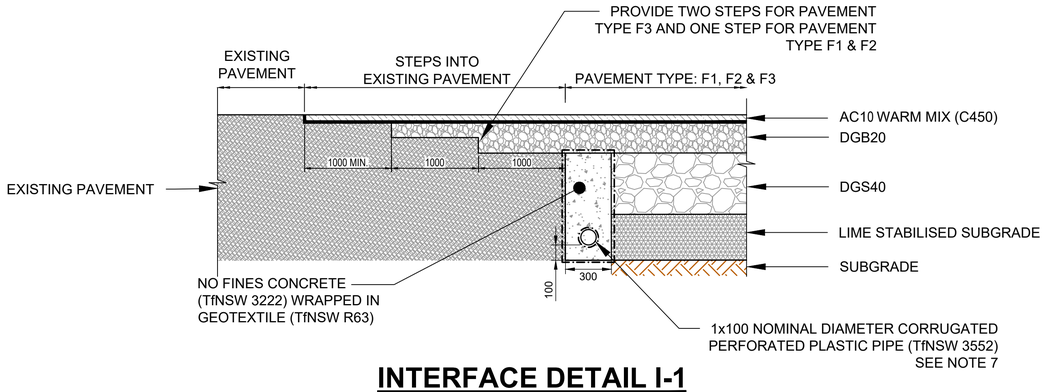
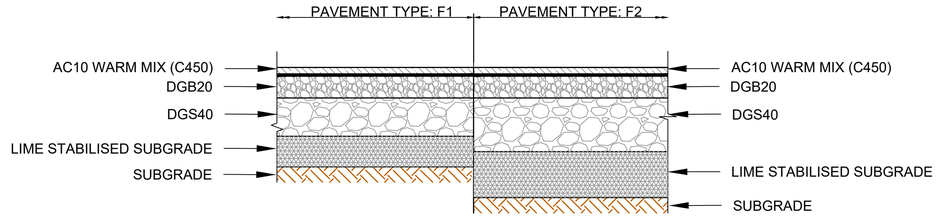


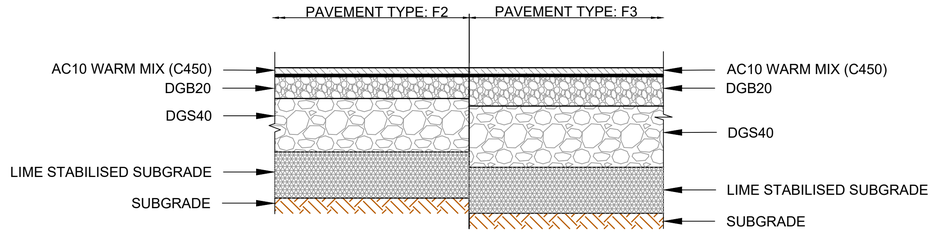
INTERFACE DETAIL I-1

PAVEMENT TYPE EXISTING AND
PAVEMENT TYPES F1/F2/F3
NTS



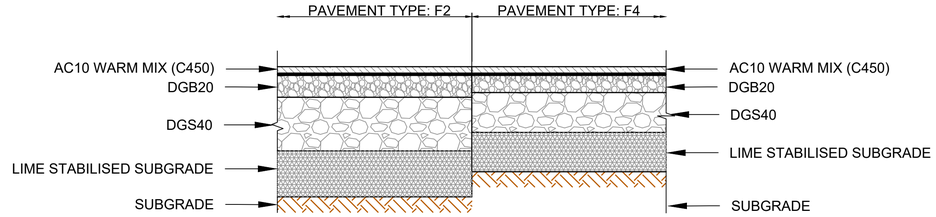
INTERFACE DETAIL I-2

PAVEMENT TYPE F1 AND PAVEMENT
TYPE F2
NTS



INTERFACE DETAIL I-3

PAVEMENT TYPE F2 AND PAVEMENT
TYPE F3
NTS



INTERFACE DETAIL I-4

PAVEMENT TYPE F2 AND PAVEMENT
TYPE F4
NTS

NOTES

1. ALL DIMENSIONS SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. REFER TO PAVEMENT PLAN SHT-00-CI-0201 AND SHT-00-CI-0202 FOR LOCATION OF THE INTERFACE JOINT.
3. REFER TO SHEET SHT-00-CI-911 FOR PAVEMENT PROFILE DETAILS.
4. REFER TO SHT-ST SERIES STORMWATER DRAINAGE DETAILS.
5. WEARING COURSE LONGITUDINAL JOINT SHALL BE LOCATED WITHIN +- 25 mm OF LINE MARKING OR IN THE CENTRE OF A LANE UNLESS OTHERWISE INDICATED ON THE DRAWINGS. LONGITUDINAL JOINT IN ASPHALT LAYERS SHALL BE OFFSET 150 mm MINIMUM FROM JOINTS IN UNDERLYING LAYER.
6. FOR TRANSVERSE INTERFACES MINIMUM OFFSET DIMENSION IS 1000 mm
7. PROVIDE SUBSURFACE DRAIN ONLY WHERE INDICATED ON PAVEMENT PLAN DRAWINGS.
8. REFER TO PROFILE DRAWINGS FOR INTERLAYER TREATMENTS (LOW CUTTER SEALS)

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PROJECT
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BRINGELLY

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KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION
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☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

GS	CT	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	15.08.23	ISSUED FOR CONSTRUCTION
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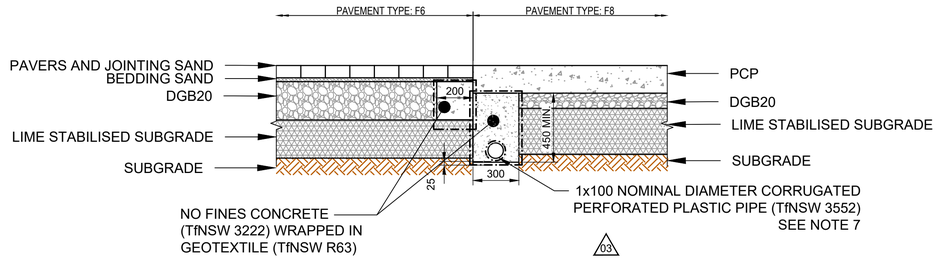
FOR CONSTRUCTION

PROJECT NUMBER
60646285

SHEET TITLE
PAVEMENT DETAILS
SHEET 06

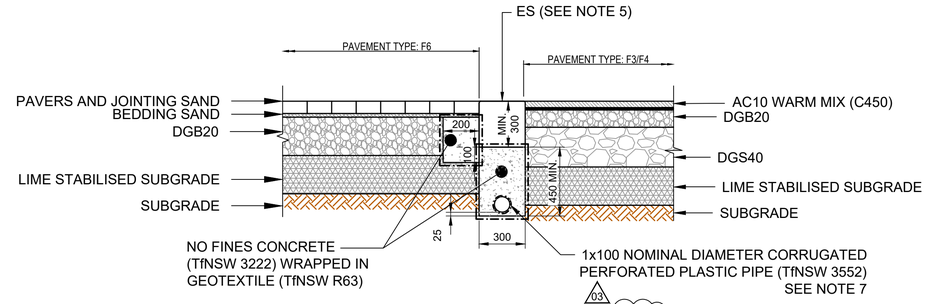
SHEET NUMBER
60646285-SHT-00-1000-CI-0916

ISO A1 594mm x 841mm



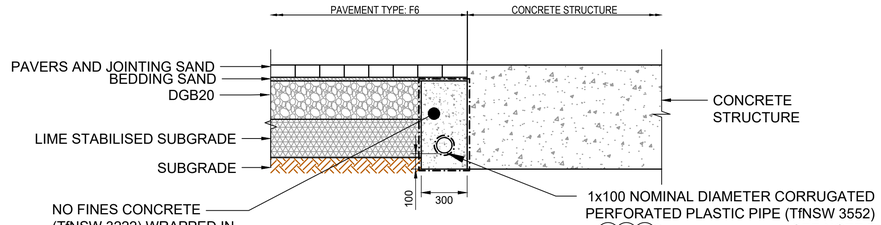
INTERFACE DETAIL I-5

PAVEMENT TYPE F6 AND PAVEMENT TYPE F8
NTS



INTERFACE DETAIL I-6

PAVEMENT TYPE F6 WITH EDGE STRIP AND PAVEMENT TYPE F3/F4
NTS

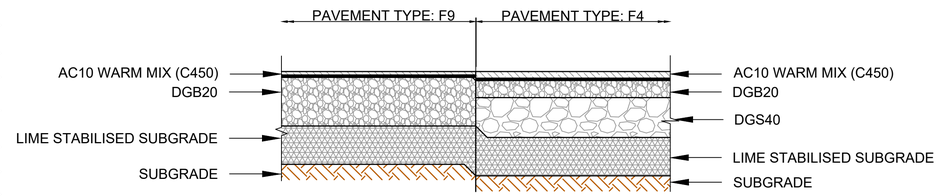


INTERFACE DETAIL I-7

03

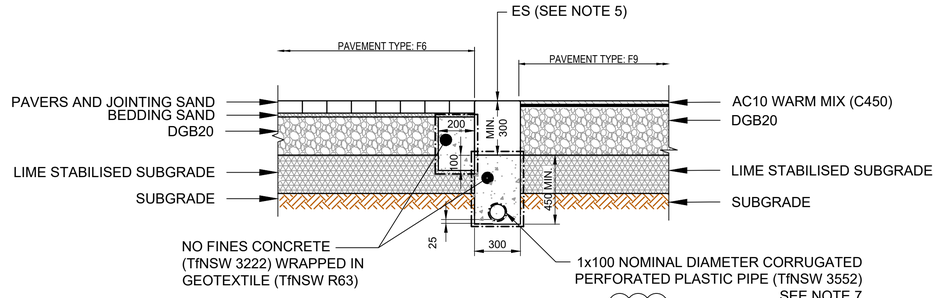
PAVEMENT TYPE F6 AND CONCRETE STRUCTURE
NTS

03



INTERFACE DETAIL I-8

PAVEMENT TYPE F9 AND PAVEMENT TYPE F4
NTS



INTERFACE DETAIL I-9

03

PAVEMENT TYPE F6 WITH EDGE STRIP AND PAVEMENT TYPE F9
NTS

NOTES

1. ALL DIMENSIONS SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. REFER TO PAVEMENT PLAN SHT-00-CI-0201 AND SHT-00-CI-0202 FOR LOCATION OF THE INTERFACE JOINT.
3. REFER TO SHEET SHT-00-CI-911 FOR PAVEMENT PROFILE DETAILS.
4. REFER TO SHT-ST SERIES STORMWATER DRAINAGE DETAILS.
5. WEARING COURSE LONGITUDINAL JOINT SHALL BE LOCATED WITHIN +- 25 mm OF LINE MARKING OR IN THE CENTRE OF A LANE UNLESS OTHERWISE INDICATED ON THE DRAWINGS. LONGITUDINAL JOINT IN ASPHALT LAYERS SHALL BE OFFSET 150 mm MINIMUM FROM JOINTS IN UNDERLYING LAYER.
6. FOR TRANSVERSE INTERFACES MINIMUM OFFSET DIMENSION IS 1000 mm
7. PROVIDE SUBSURFACE DRAIN ONLY WHERE INDICATED ON PAVEMENT PLAN DRAWINGS.
8. REFER TO PROFILE DRAWINGS FOR INTERLAYER TREATMENTS (LOW CUTTER SEALS)
9. POLYETHYLENE SHEET ONLY REQUIRED WHERE BASE OF INTERFACE DRAIN IS WITHIN NATURAL SOIL.

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CONSULTANT

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A.B.N 20 093 846 925
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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

GS	CT	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	15.08.23	ISSUED FOR CONSTRUCTION
2	22.05.23	ISSUED FOR CONSTRUCTION
1	04.05.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

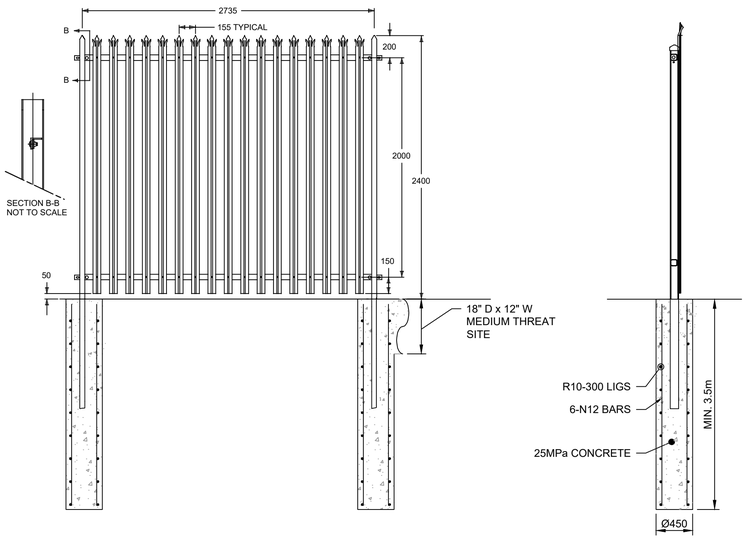
60646285

SHEET TITLE

PAVEMENT DETAILS
SHEET 07

SHEET NUMBER

60646285-SHT-00-1000-CI-0917



1 PALISADE FENCE

-

NTS

ISO A1 594mm x 841mm

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	14.04.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

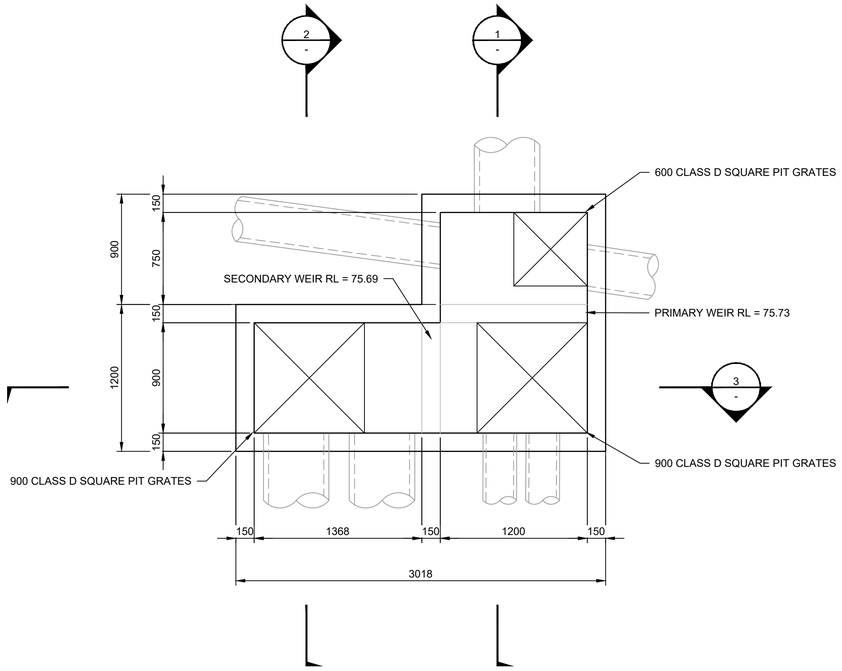
SHEET TITLE

STREET FURNITURE DETAILS

SHEET NUMBER

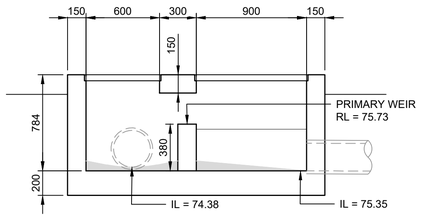
60646285-SHT-00-1000-CI-0931

ISO A1 594mm x 841mm



PIT 003\2 PLAN

Scale 1:25



1 SECTION

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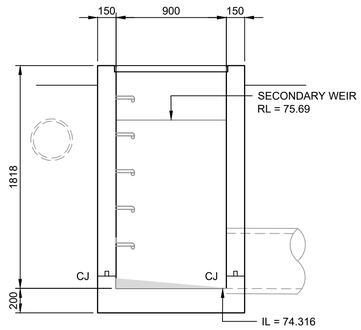

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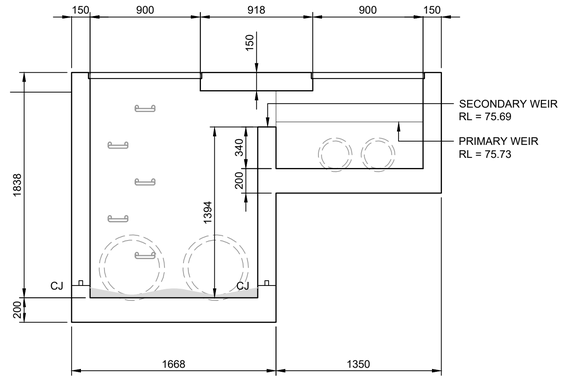

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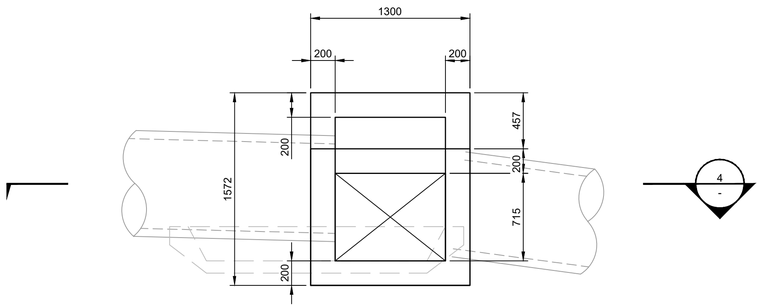
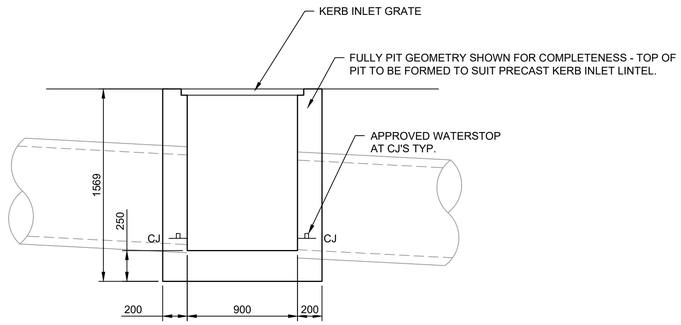


PIT 07-01 PLAN

Scale 1:25



4 SECTION

Scale 1:25

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 625 1250 mm
1:25

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM		SURVEY	

ISSUE/REVISION

I/R	DATE	DESCRIPTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
2	23.01.23	ISSUED FOR DRAFT IFC
1	12.01.21	PRELIMINARY CONCEPT DESIGN

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STORMWATER DRAINAGE
PIT GEOMETRY
SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-CI-0941

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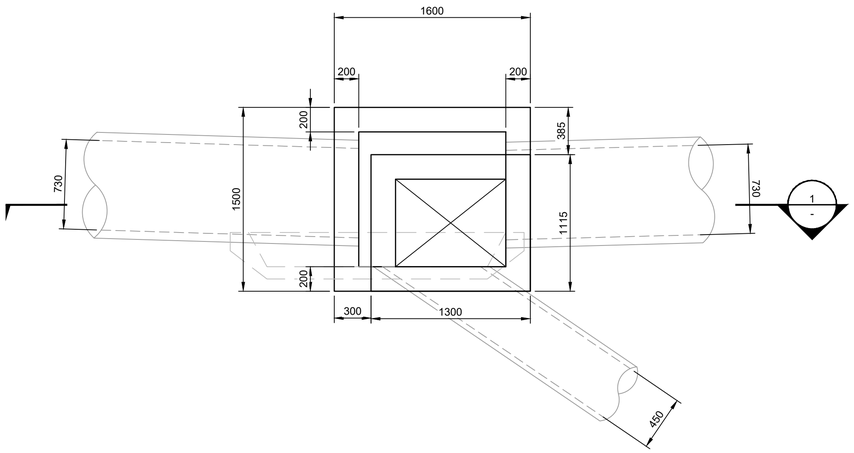
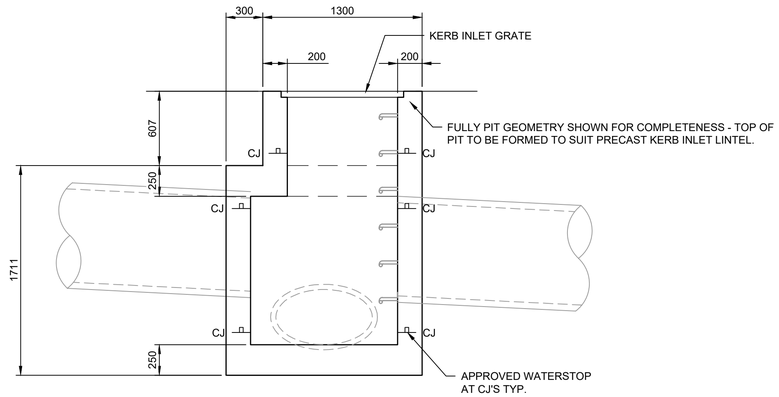


PIT 003\9 PLAN

Scale 1:25



1 SECTION

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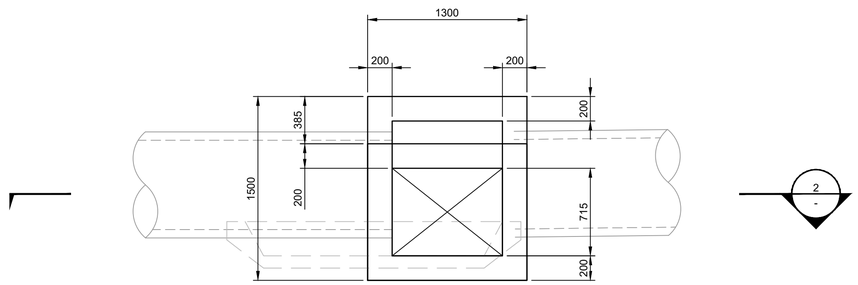
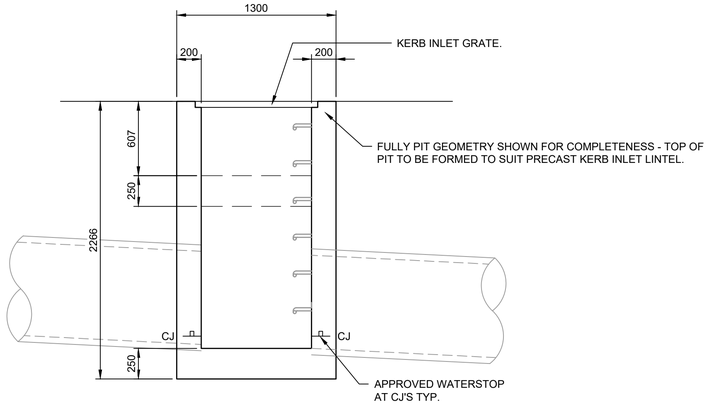


PIT 001\1 PLAN

Scale 1:25



2 SECTION

Scale 1:25

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 625 1250 mm
1:25

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM		SURVEY	

ISSUE/REVISION

I/R	DATE	DESCRIPTION
7	22.05.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
2	23.01.23	ISSUED FOR DRAFT IFC
1	12.01.21	PRELIMINARY CONCEPT DESIGN

FOR CONSTRUCTION

PROJECT NUMBER

60646285

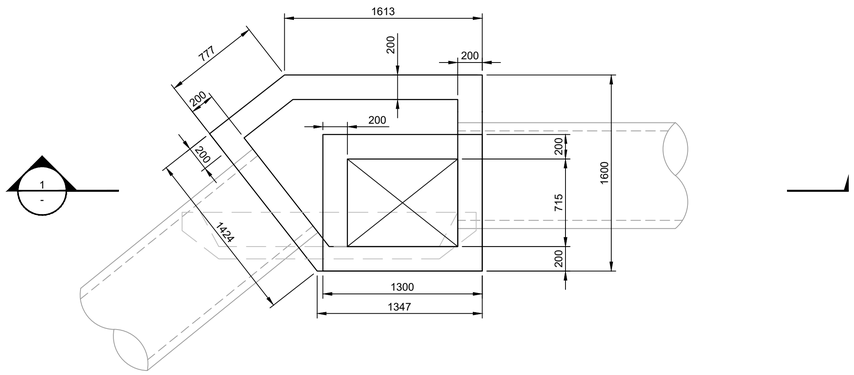
SHEET TITLE

STORMWATER DRAINAGE
PIT GEOMETRY
SHEET 02

SHEET NUMBER

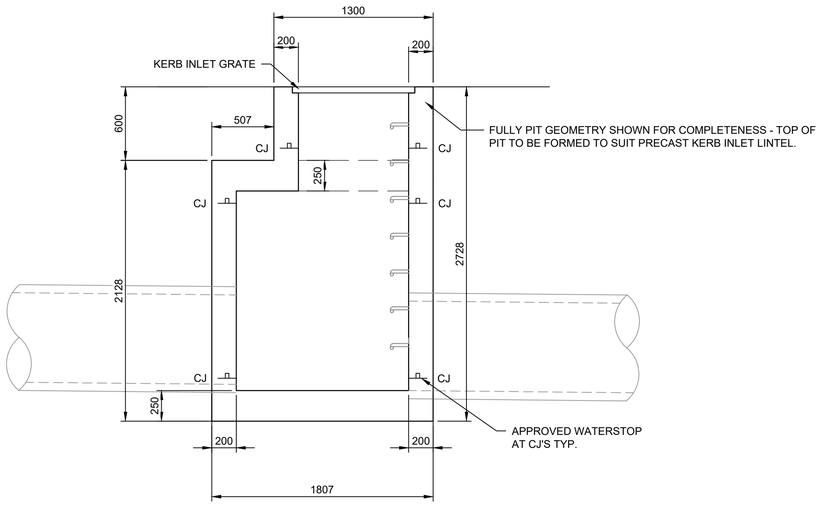
60646285-SHT-00-1000-CI-0942

ISO A1 594mm x 841mm



PIT 001\2 PLAN

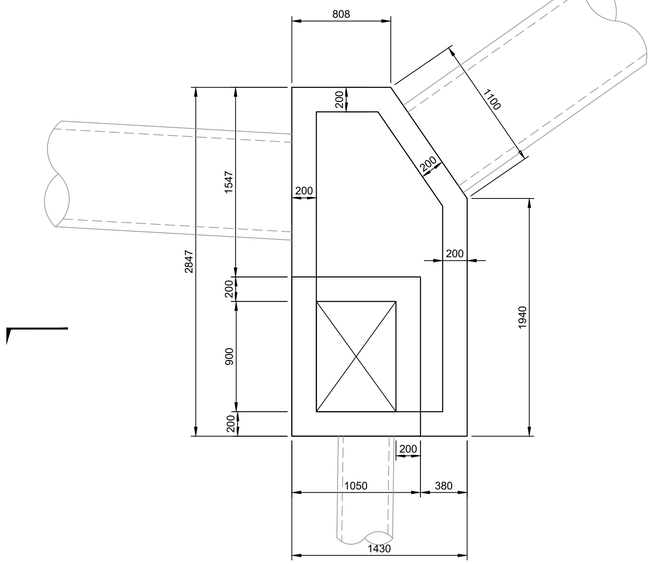
Scale 1:25



1 SECTION

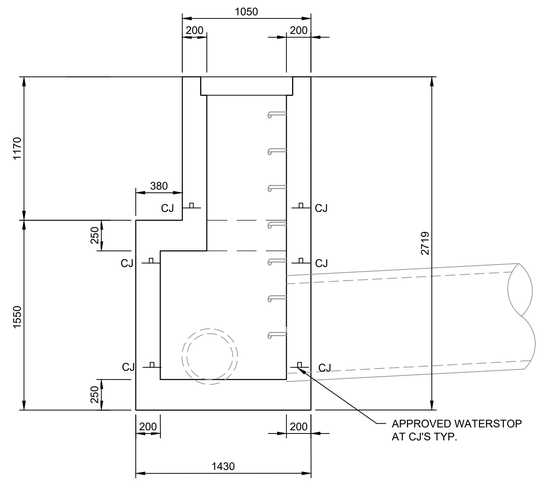
\- Scale 1:25

6



PIT 001\3 PLAN

Scale 1:25



2 SECTION

\- Scale 1:25

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 625 1250 mm
1:25

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM		SURVEY	

ISSUE/REVISION

I/R	DATE	DESCRIPTION
6	17.11.23	ISSUED FOR CONSTRUCTION
5	15.08.23	ISSUED FOR CONSTRUCTION
4	22.05.23	ISSUED FOR CONSTRUCTION
3	14.04.23	ISSUED FOR CONSTRUCTION
2	23.01.23	ISSUED FOR DRAFT IFC
1	12.01.21	PRELIMINARY CONCEPT DESIGN

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

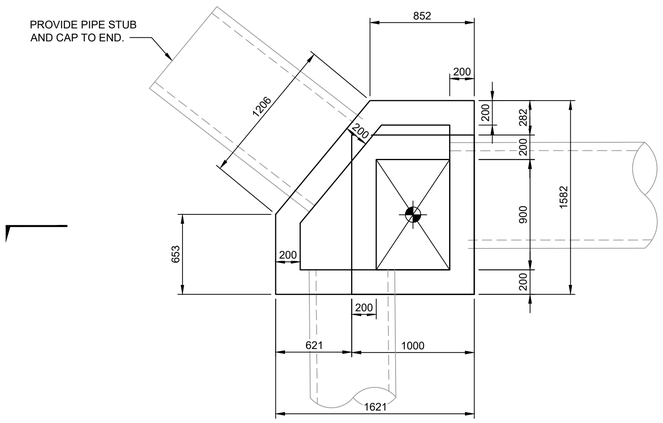
STORMWATER DRAINAGE
PIT GEOMETRY
SHEET 03

SHEET NUMBER

60646285-SHT-00-1000-CI-0943

ISO A1 594mm x 841mm

06

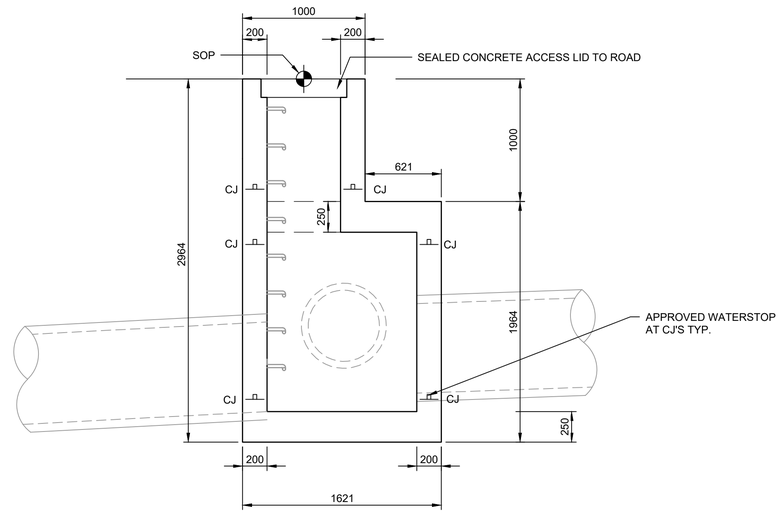


PIT 001\4 PLAN

Scale 1:25

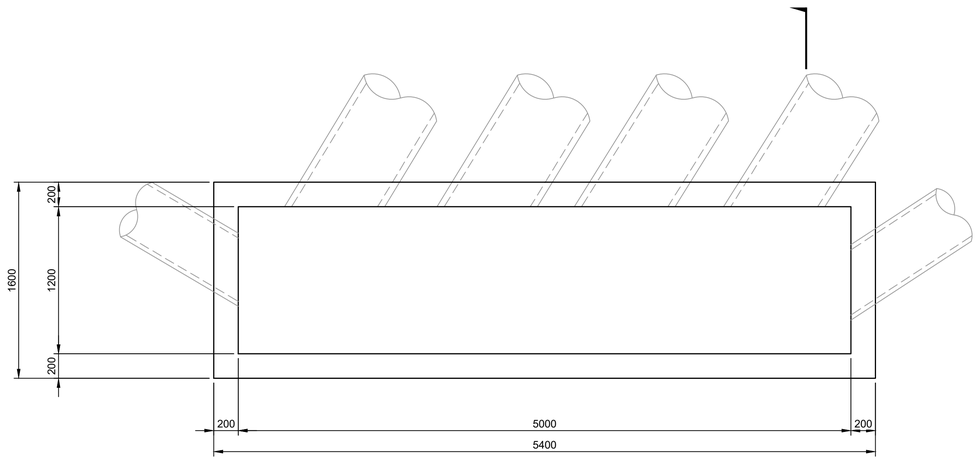
1
-

06



1 SECTION

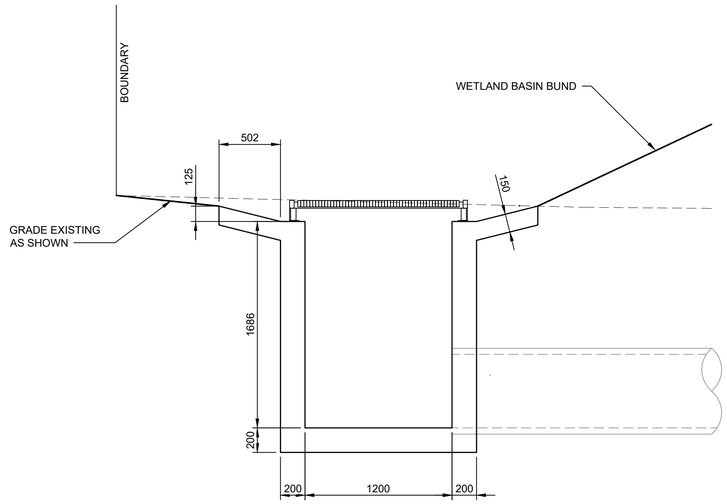
Scale 1:25



PIT 012\2 PLAN

Scale 1:25

2
-



2 SECTION

Scale 1:25

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 625 1250 mm
1:25

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM		SURVEY	

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	15.08.23	ISSUED FOR CONSTRUCTION
4	22.05.23	ISSUED FOR CONSTRUCTION
3	14.04.23	ISSUED FOR CONSTRUCTION
2	23.01.23	ISSUED FOR DRAFT IFC
1	12.01.21	PRELIMINARY CONCEPT DESIGN

FOR CONSTRUCTION

PROJECT NUMBER

60646285

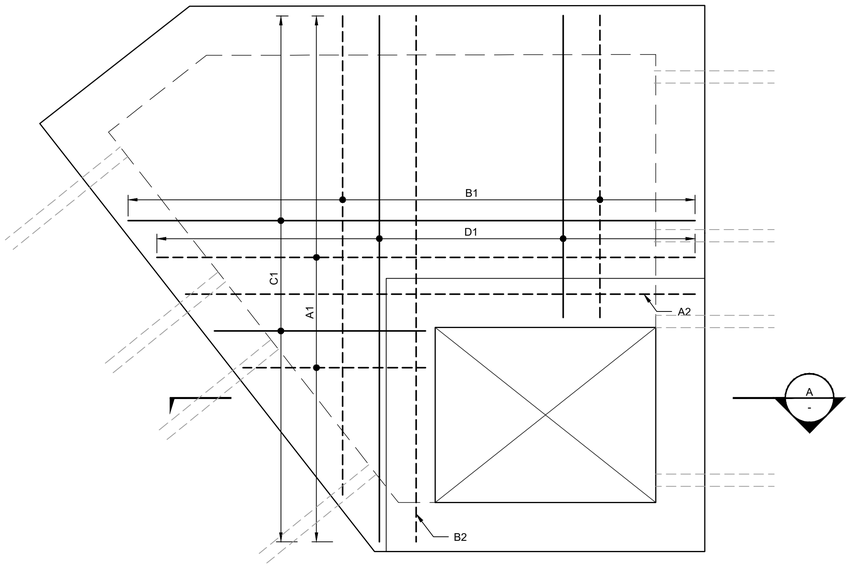
SHEET TITLE

STORMWATER DRAINAGE
PIT GEOMETRY
SHEET 04

SHEET NUMBER

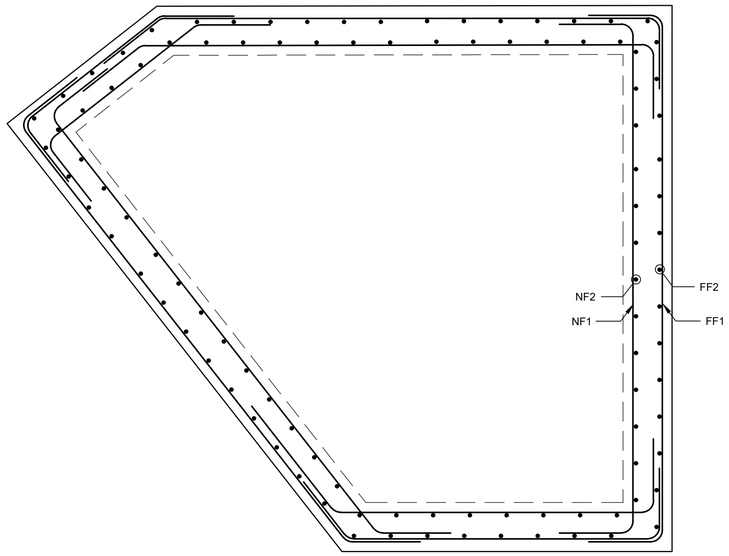
60646285-SHT-00-1000-CI-0944

ISO A1 594mm x 841mm



PLAN - TYPICAL DEEP PIT ROOF SLAB WITH RISER

(BOTTOM SLAB AND WALLS OMITTED FOR CLARITY) N.T.S.



PLAN - TYPICAL DEEP PIT WALL REINFORCEMENT

(TOP SLAB AND RISER OMITTED FOR CLARITY) N.T.S.

NOTES

1. REFER TO GENERAL NOTES SHEET FOR FULL STRUCTURAL NOTES
2. CONCRETE EXPOSURE CLASSIFICATION: B1.
3. MINIMUM COVER TO BE 40mm U.N.O.
4. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 40MPa.
5. EDGES SHALL BE CHAMFERED 20 x 20 AND RE-ENTRANT ANGLES FILLETED 20 x 20 UNLESS NOTED OTHERWISE.
6. CONTRACTION JOINTS ARE TO BE PROVIDED AS SHOWN.
7. BLINDING AND MASS CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 20MPa.
8. CJ DENOTES CONSTRUCTION JOINT.
9. CJ'S SHALL BE USED AT NOMINATED LOCATIONS. CJ'S SHALL BE SCABBLED AND APPROVED WATER STOPS USED.
10. SOP DENOTES SET OUT POINT.
11. NRV TO BE USED FOR ALL AG LINE CONNECTIONS TO PITS TO ALLOW THE FLOW OF FLUIDS TO MOVE ONLY IN ONE DIRECTION INTO THE PIT AND TO PREVENT CONFINED AQUIFIER PRESSIRE.
12. PITS DEEPER THAN 1.2m ARE TO BE FITTED WITH STEP IRON BARS AS DETAILED AND IN ACCORDANCE WITH COUNCIL STANDARDS.
13. ALL DIMENSIONS IN MILLIMETERS U.N.O.

PIT GEOTECHNICAL NOTES

1. THE ANTICIPATED GROUND CONDITION AT ALL PITS ARE SUMMARISED BELOW.

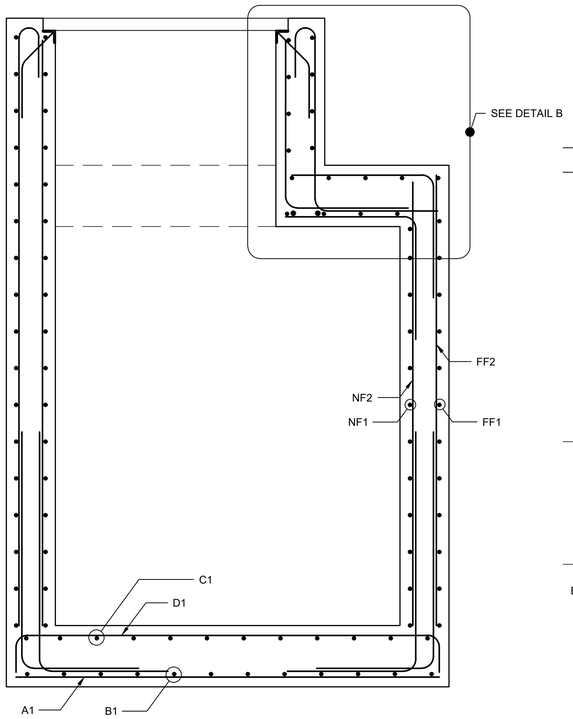
DEPTH (m BELOW GROUND LEVEL)	GEOTECHNICAL UNITS	'AT REST'
0 - 0.6	FILL OR PAVEMENT	0.55*
0.6 - 4	FIRM CLAY	
4+	-	-

* GEOTECHNICAL 'AT REST' LATERAL EARTH COEFFICIENT OF 0.55 HAS BEEN USED FOR DRAINAGE PIT DESIGN, FROM TOP TO BOTTOM OF THE WALL

2. MINIMUM ALLOWABLE BEARING CAPACITY >200 kPa.
3. AN AVERAGE BULK UNIT WEIGHT OF 22kN/m³ IS ADOPTED.

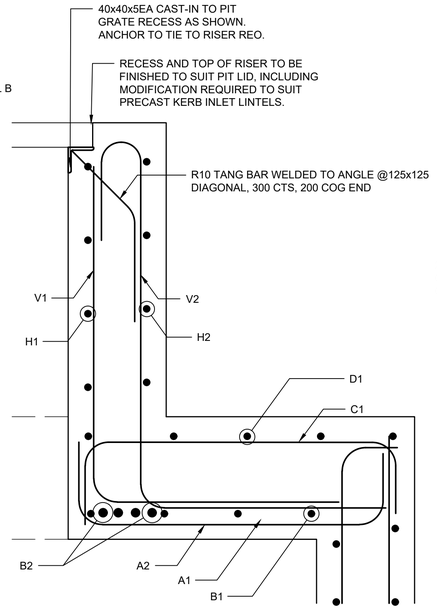
REINFORCEMENT SCHEDULE

APPLICABLE PITS:			07/01, 01/06, 01/07, 01/08, 01/09, 02/01
	BAR	DETAIL	REMARK
ROOF & BASE	A1	N12-150	GENERAL, BOTTOM, LAID 1ST
	A2	4N16	ADDITIONAL, BOTTOM, LAID 1ST, 50mm FROM EDGE OF OPENING
	B1	N12-150	GENERAL, BOTTOM, LAID 2ND
	B2	3N16	ADDITIONAL, BOTTOM, LAID 2ND, 50mm FROM EDGE OF OPENING
	C1	N12-150	GENERAL, TOP, LAID 3RD
	D1	N12-150	GENERAL, TOP, LAID 4TH
WALL	NF1	N12-150	HORIZONTAL GENERAL, INSIDE FACE
	FF1	N12-150	HORIZONTAL GENERAL, OUTSIDE FACE
	NF2	N12-150	VERTICAL GENERAL, INSIDE FACE
	FF2	N12-150	VERTICAL GENERAL, OUTSIDE FACE



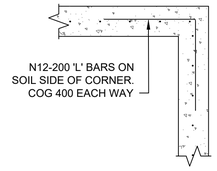
TYPICAL SECTION A

REFER TO TABLE 2 N.T.S.



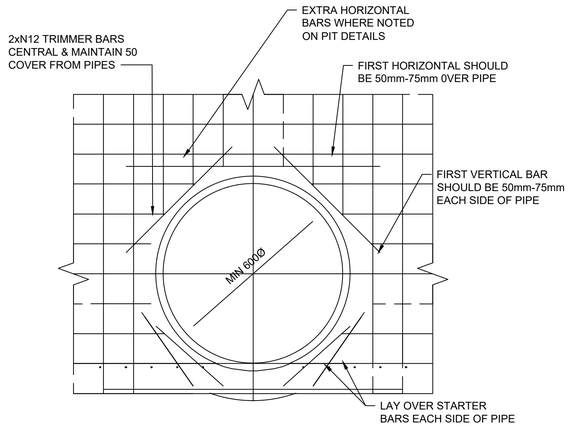
DETAIL B - RISER REINFORCEMENT

REFER TO TABLE 1 N.T.S.



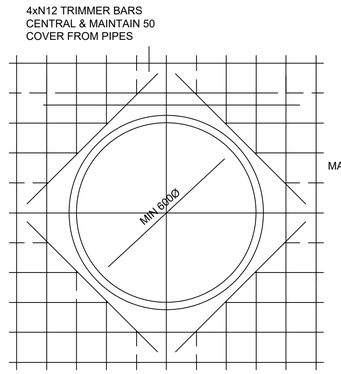
TYPICAL CORNER TREATMENT DETAIL- PLAN (90° CORNER)

SCALE 1:20



TYPICAL TRIMMER BARS DETAIL AT BASE

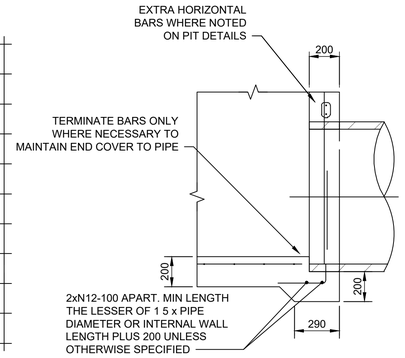
SCALE 1:20



TYPICAL TRIMMER BARS DETAIL

SCALE 1:20

NOTE:
WHERE EXTRA REINFORCEMENT BARS SPECIFIED IMMEDIATELY ABOVE PIPES, TOP HORIZONTAL N16 BARS AS INDICATED HERE ARE NOT REQUIRED



TYPICAL REINFORCEMENT TREATMENT AT PIPE PENETRATION

SCALE 1:20

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AECOM

CONSULTANT

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PROJECT

AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 500 1000 mm
1:20

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	22.05.23	ISSUED FOR CONSTRUCTION
4	14.04.23	ISSUED FOR CONSTRUCTION
3	23.01.23	ISSUED FOR DRAFT IFC
2	02.09.22	ISSUED FOR APPROVAL
1	29.04.22	ISSUED FOR TENDER

FOR CONSTRUCTION

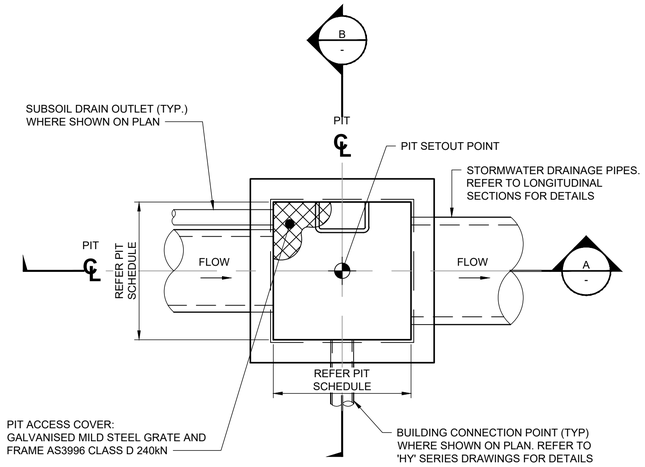
PROJECT NUMBER
60646285

SHEET TITLE
STORMWATER DRAINAGE
TYPICAL PIT DETAILS
SHEET 01

SHEET NUMBER
60646285-SHT-00-1000-CI-0951

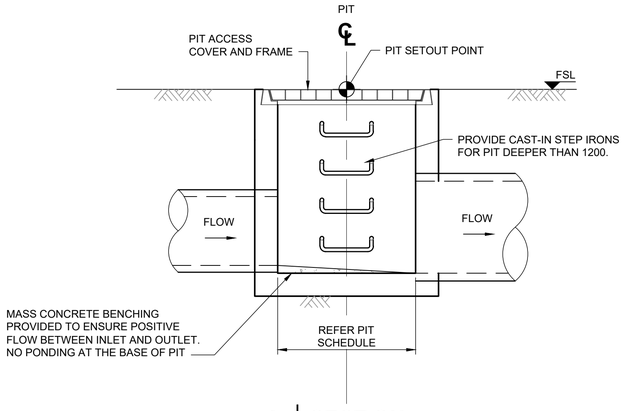
Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AU\SHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0951.DWG

ISO A1 594mm x 841mm

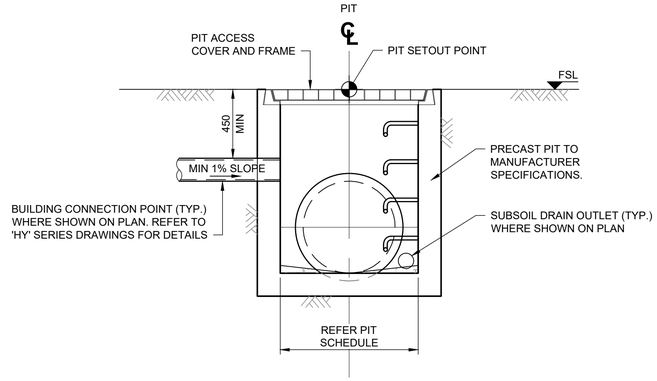


STORMWATER INLET PIT PLAN

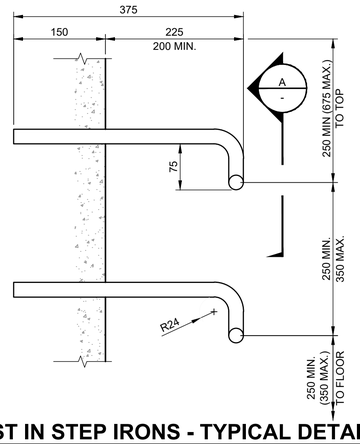
SCALE 1:20



A | SECTION
SCALE 1:20

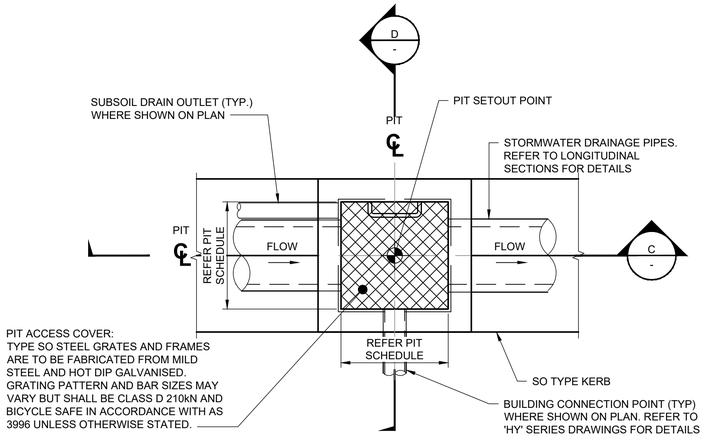


B | SECTION
SCALE 1:20



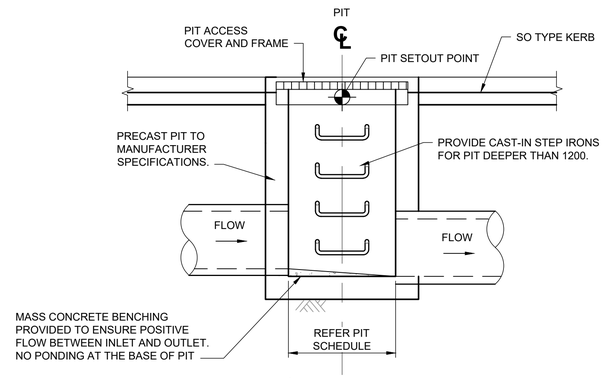
CAST IN STEP IRONS - TYPICAL DETAIL

SCALE 1:5

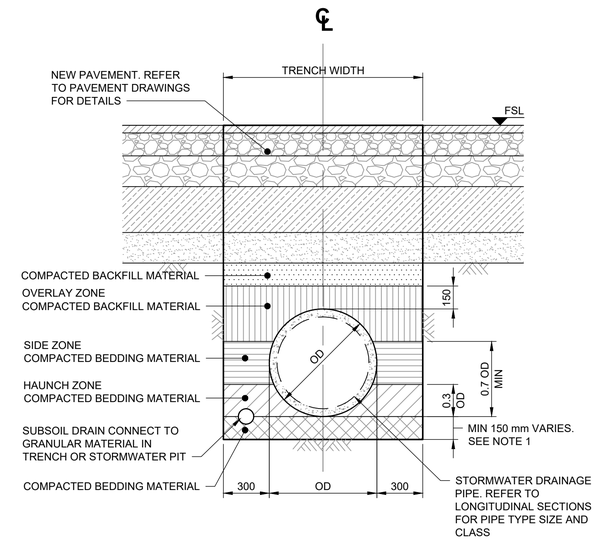


STORMWATER INLET SO PIT PLAN

SCALE 1:20

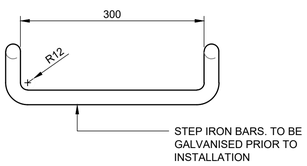


C | SECTION
SCALE 1:20

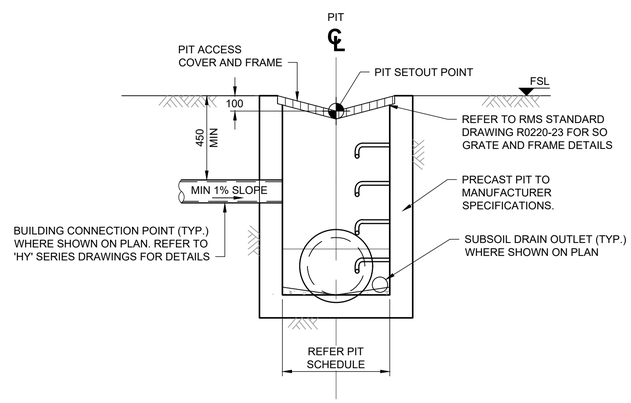


TYPICAL DETAIL - STORMWATER PIPE TRENCH

NOT TO SCALE



A | ELEVATION
SCALE 1:5



D | SECTION
SCALE 1:20

NOTE

1. REFER TO ADVICE FROM ON-SITE QUALIFIED GEOTECHNICAL ENGINEER FOR VARIED BEDDING MATERIAL THICKNESS ON MODERATELY (M) / HIGHLY REACTIVE (H1) SOILS.

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AECOM

CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 0.125 0.25 m
1:5
0 0.5 1 m
1:20

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	14.04.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STORMWATER DRAINAGE
TYPICAL PIT DETAILS
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0952

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
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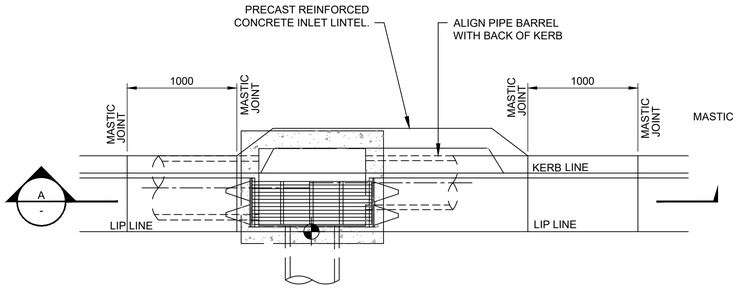
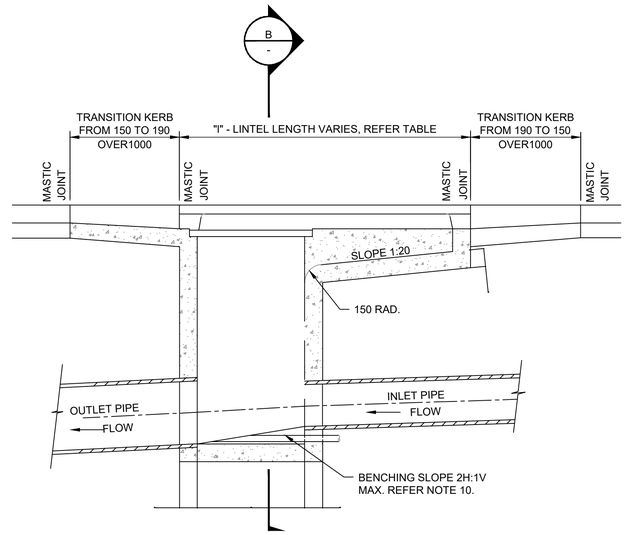
ISO A1 594mm x 841mm



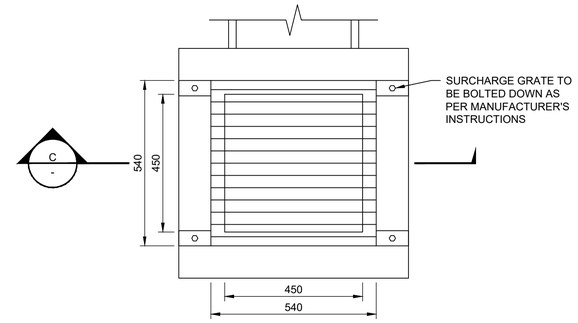
STANDARD GULLY PIT WITH EXTENDED KERB INLET - 1.2m LINTEL

NTS



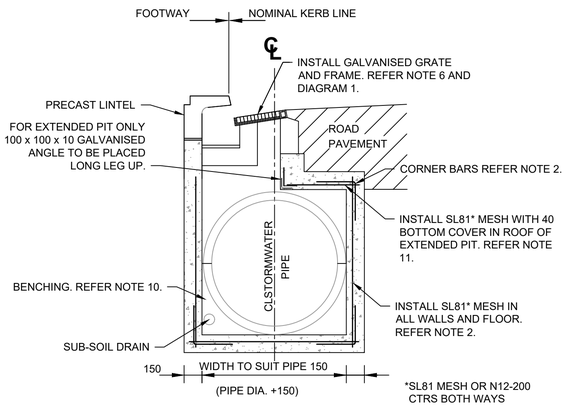
SECTION A - A

NTS



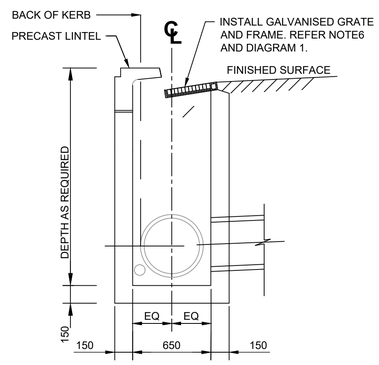
TYPICAL GRATED PIT DETAIL

SCALE 1:10



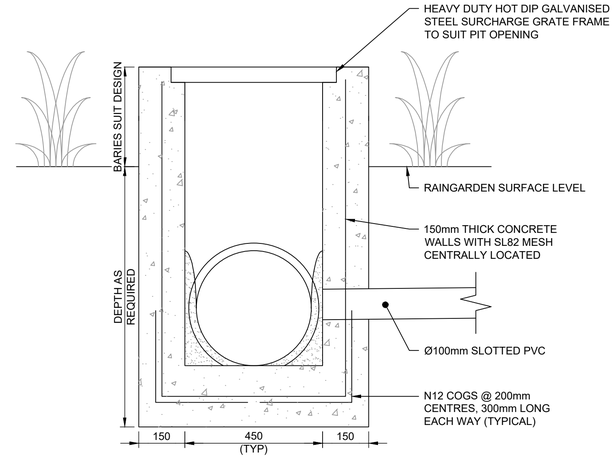
SECTION B - B EXTENDED PIT CHAMBER

REFER NOTE 9. NTS



SECTION B - B STANDARD PIT

REFER NOTE 9 & 15. NTS



C SECTION

SCALE 1:10

PRECAST LINTEL SIZES.

NOMINAL OPENING SIZE METRES	OVERALL LENGTH "l" mm
0.9	1825
1.2	1825
1.8	2438
2.4	3048
3.0	3657
3.6	4267
4.2	4877
4.8	5486

NOTES:

1. CONCRETE TO BE 25MPa MINIMUM AT 28 DAYS
2. CONCRETE WALLS AND BOTTOM TO BE REINFORCED IN ALL DIRECTIONS WITH SL81 MESH AT 40 COVER TO INSIDE FACE WITH 12 CORNER BARS 300 LEGS AT 200 CTRS. PITS DEEPER THAN 1500 SHALL BE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER.
3. SAG PITS TO HAVE LINTEL LOCATED CENTRALLY OVER PIT.
4. BACKFILL ADJACENT TO PITS TO BE APPROVED AND CONNECTED TO THE UPSTREAM PIT WALL.
5. A 3m LENGTH OF APPROVED "FILTER FABRIC" WRAPPED 100mm SUB-SOIL DRAIN OR EQUIVALENT IS TO BE PROVIDED AND CONNECTED TO THE UPSTREAM PIT WALL.
6. PIT GRATE AND FRAME TO BE EQUIVALENT "WELDLOK" GG-50D FOR RESIDENTIAL ROADS AND GG-42D FOR INDUSTRIAL ROADS OR EQUIVALENT, FITTED WITH A LOCKABLE "J" BOLT.
7. STEP IRONS PROVIDED WHERE THE PIT EXCEEDS 1200 IN DEPTH AS PER SD-S09.
8. THE CENTRE LINES OF INTERSECTING PIPES ARE TO MEET AT THE DOWNSTREAM FACE OF THE PIT WHERE POSSIBLE.
9. WHERE ENTERING PIPE EXCEEDS Ø525, EXTEND PIT CHAMBER AS SHOWN IN SECTION B-B EXTENDED PIT CHAMBER.
10. FLOOR OF PIT TO BE BENCHED TO MID POINT OF OUTLET PIPE WHERE OUTLET PIPE IS >Ø600.
11. WHERE EXTENDED CHAMBER WIDTH EXCEEDS 1200, ROOF REINFORCEMENT IS TO BE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER.
12. CONTRACTOR TO ENSURE SPECIFIED CLEARANCE BETWEEN LINTEL AND OPEN GRATE SEE DIAGRAM 1.
13. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
14. PITS IN AREAS OF SALINITY HAZARD SHALL BE APPROPRIATELY DESIGNED.
15. PITS >1200 DEEP TO BE MINIMUM 900 WIDE x 900 LONG.

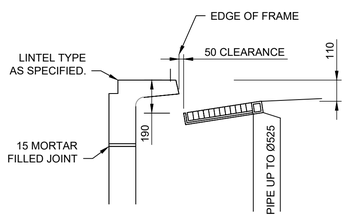
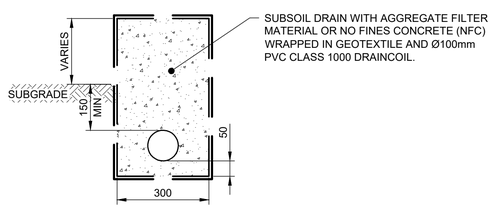


DIAGRAM 1

NTS



TYPICAL SUBSOIL DRAIN

SCALE 1:10

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CONSULTANT

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A.B.N 20 093 846 925
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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 250 500 mm
1:10

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	14.04.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

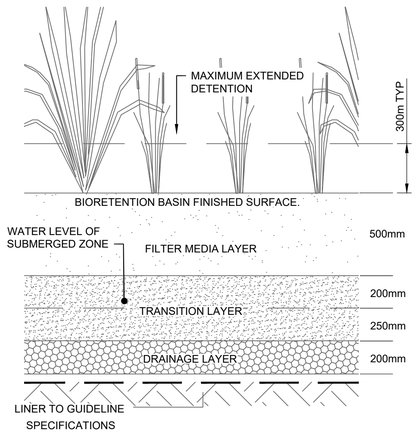
SHEET TITLE

STORMWATER DRAINAGE
TYPICAL PIT DETAILS
SHEET 03

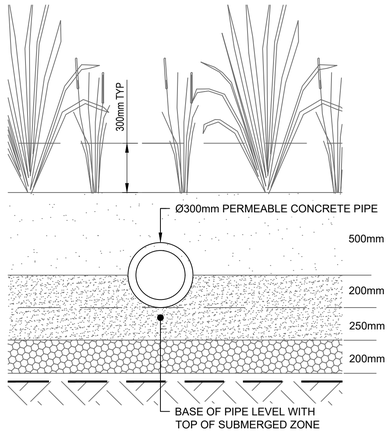
SHEET NUMBER

60646285-SHT-00-1000-CI-0953

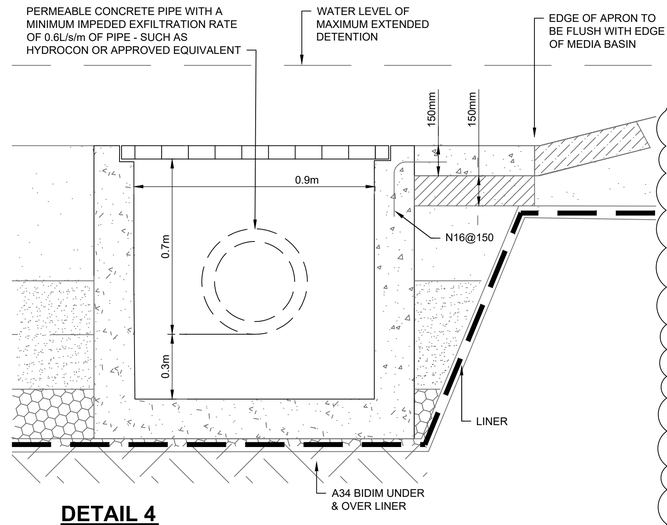
ISO A1 594mm x 841mm



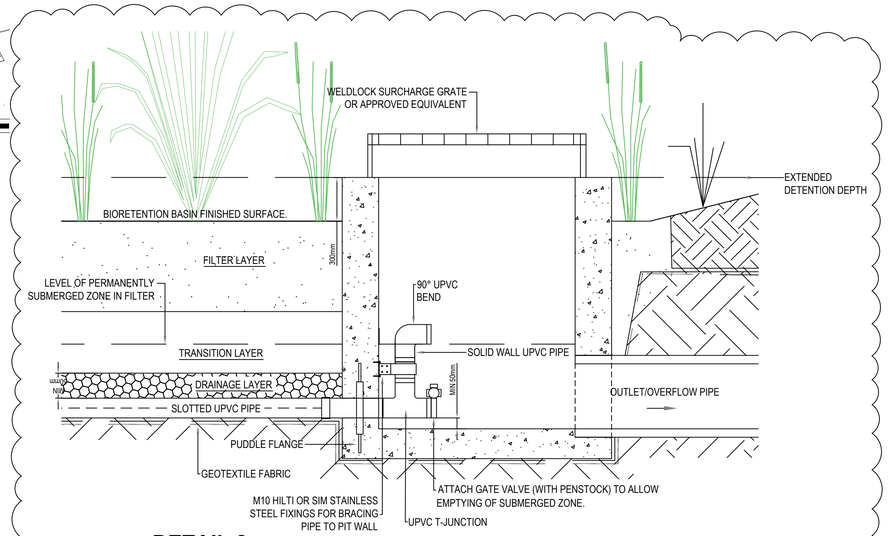
DETAIL 1
TYPICAL BIORETENTION FILTER PROFILE
NTS



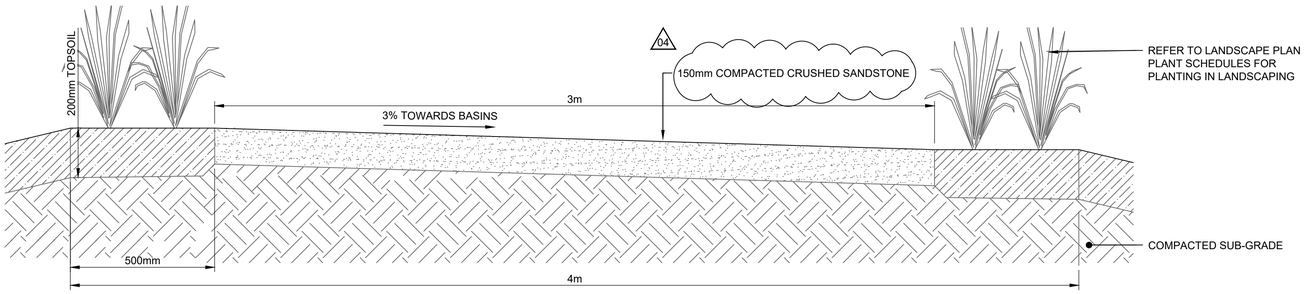
DETAIL 2
TYPICAL BIORETENTION INCLUDING PERMEABLE CONCRETE PIPE
NTS



DETAIL 4
UPFLOW PIT AND DISTRIBUTION PIPE TYPICAL SECTION
NTS



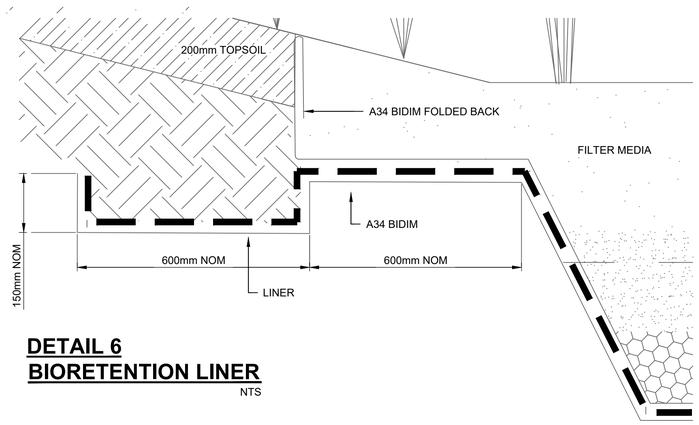
DETAIL 8
OUTLET PIT FOR BIORETENTION BASINS TYPICAL SECTION
NTS



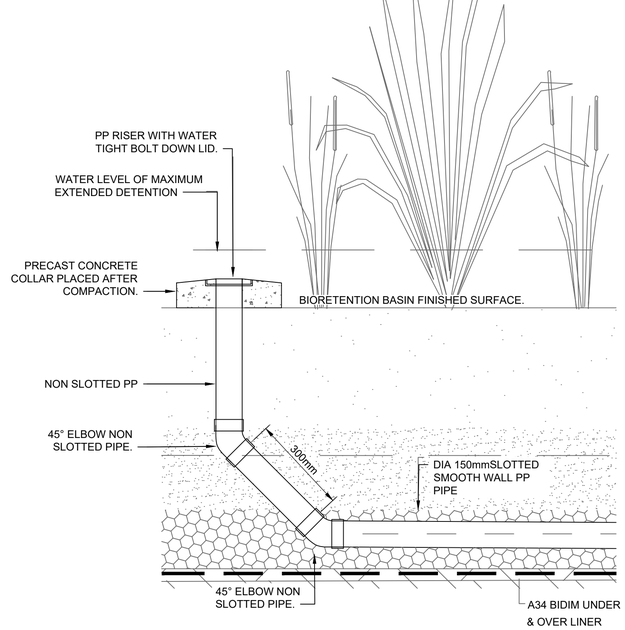
DETAIL 5
MAINTENANCE ACCESS TRACK
NTS

DESIGN NOTES:

1. EDD MAY BE INCREASED TO 500mm WHERE REQUIRED.
2. GEOTEXTILE FABRICS MUST NOT BE USED BETWEEN THE FILTER MEDIA, TRANSITION AND DRAINAGE LAYERS IN BIORETENTION SYSTEMS DUE TO THE RISK OF CLOGGING. AND DRAINAGE LAYERS IN BIORETENTION SYSTEMS DUE TO THE RISK OF CLOGGING. THE SOIL SPECIFICATIONS ARE DESIGNED TO LIMIT THE MIGRATION OF PARTICLES THROUGH THE SYSTEM.
3. NO GEOTEXTILE SOCKS TO BE INSTALLED ON THE SLOTTED DRAINAGE PIPES.
4. THE TOP LEVEL OF THE SATURATED ZONE MUST BE LOCATED WITHIN THE TRANSITION LAYER 200mm BELOW THE FILTER MEDIA. THE HEIGHT OF THE SATURATED ZONE IS CONTROLLED BY THE OUTLET LEVEL. REFER DRAWING WSUD 9.
5. FILTER MEDIA, TRANSITION AND DRAINAGE LAYERS SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIFICATION PROVIDED.
6. ACCORDANCE WITH THE SPECIFICATION ON DRAWING WSUD 2.
7. TURF UNDERLAY SHALL BE A 70:30 SAND:TOPSOIL MIX. SAND SHALL COMPLY WITH THE TRANSITION LAYER AS PER THE SPECIFICATION PROVIDED.
8. TOPSOIL SHALL COMPLY WITH AS4419. SITE TOPSOILS MAY BE REUSED PROVIDED THEY HAVE BEEN ASSESSED BY A QUALIFIED HORTICULTURIST OR SOIL SCIENTIST AND AMELIORATED ACCORDING TO THEIR RECOMMENDATIONS.
9. TURF SHALL BE WATERED IMMEDIATELY AFTER LAYING UNTIL UNDERLAY IS MOISTENED TO FULL DEPTH. CONTINUE WATERING AS REQUIRED TO MAINTAIN GROWTH RATES FREE OF STRESS FOR 6 WEEKS.
10. ONCE TURF HAS ESTABLISHED (4-6 WEEKS TYP.) TOP DRESS WITH FILTER MEDIA TO CREATE A LEVEL FINISH, TWO OR MORE ADDITIONAL TOP DRESSES MAY BE REQUIRED DEPENDING ON THE EXTENT OF SETTLEMENT.



DETAIL 6
BIORETENTION LINER
NTS



DETAIL 7
FLUSHING POINT
NTS

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Last saved by: DIZON,I(2024-02-16) Last Plotted: 2024-02-16
Filename: C:_PROCESS_AERO AMRF\01-ALL\60646285-SHT-00-1000-CI-0961.DWG

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CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	16.02.24	ISSUED FOR CONSTRUCTION
4	15.08.23	ISSUED FOR CONSTRUCTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	14.04.23	ISSUED FOR CONSTRUCTION
1	23.01.23	ISSUED FOR DRAFT IFC

FOR CONSTRUCTION

PROJECT NUMBER

60646285

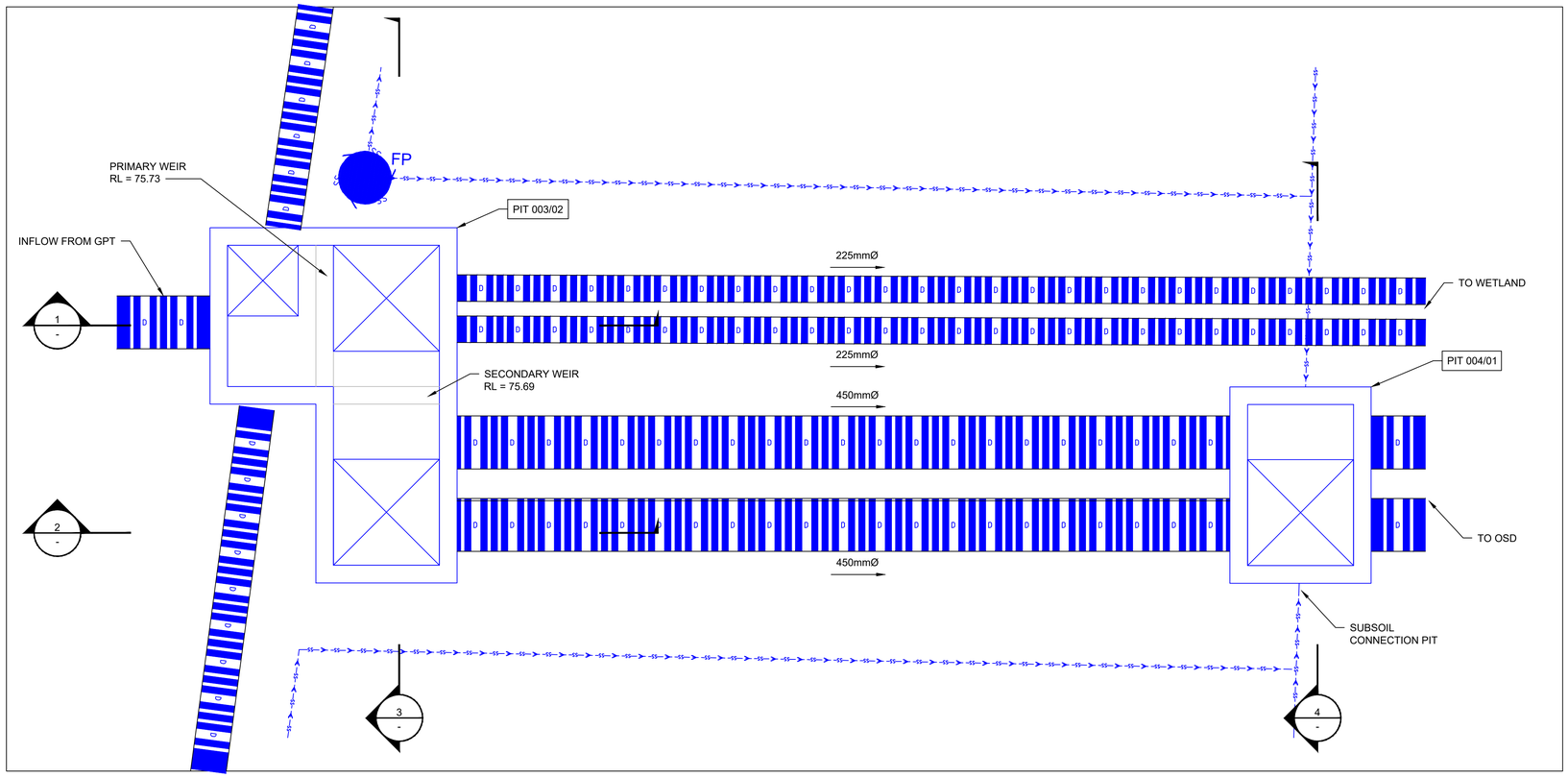
SHEET TITLE

WSUD/OSD DETAILS
SHEET 01

SHEET NUMBER

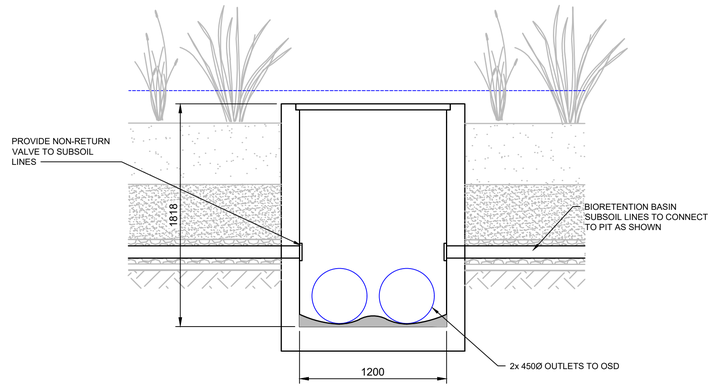
60646285-SHT-00-1000-CI-0961

ISO A1 594mm x 841mm



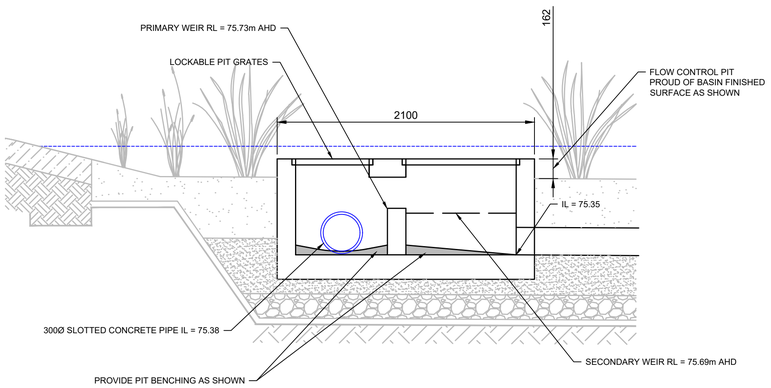
FLOW CONTROL PIT - PLAN

NTS



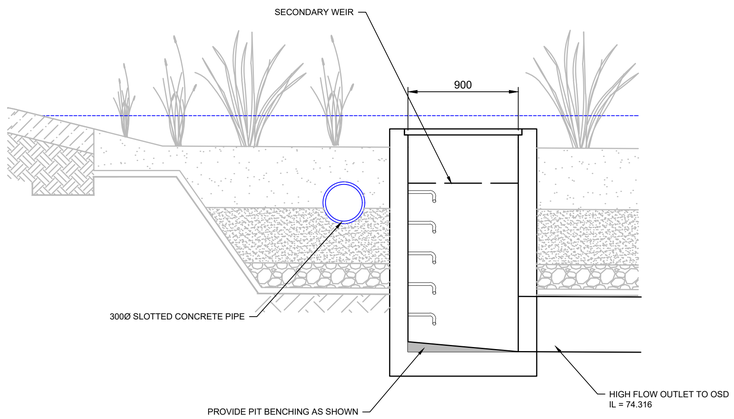
4 SECTION

- Scale 1:25



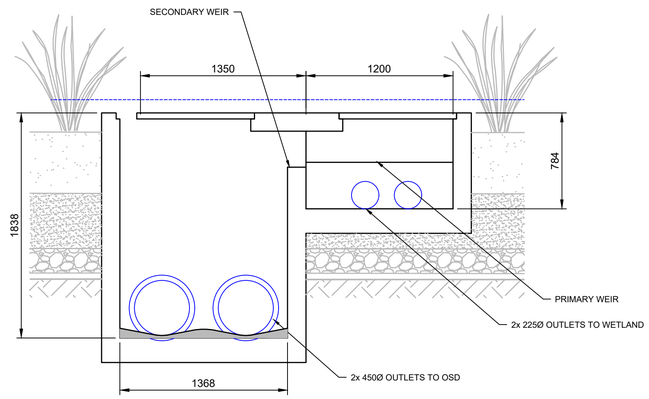
1 SECTION

- Scale 1:25



2 SECTION

- Scale 1:25



3 SECTION

- Scale 1:25

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Filename: C:\PWWORKING\AECOM_DS10_AU\SHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0962.DWG

This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001-2000.

AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 250 500 mm
1:10
0 500 1000 mm
1:20

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	22.05.23	ISSUED FOR CONSTRUCTION
1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

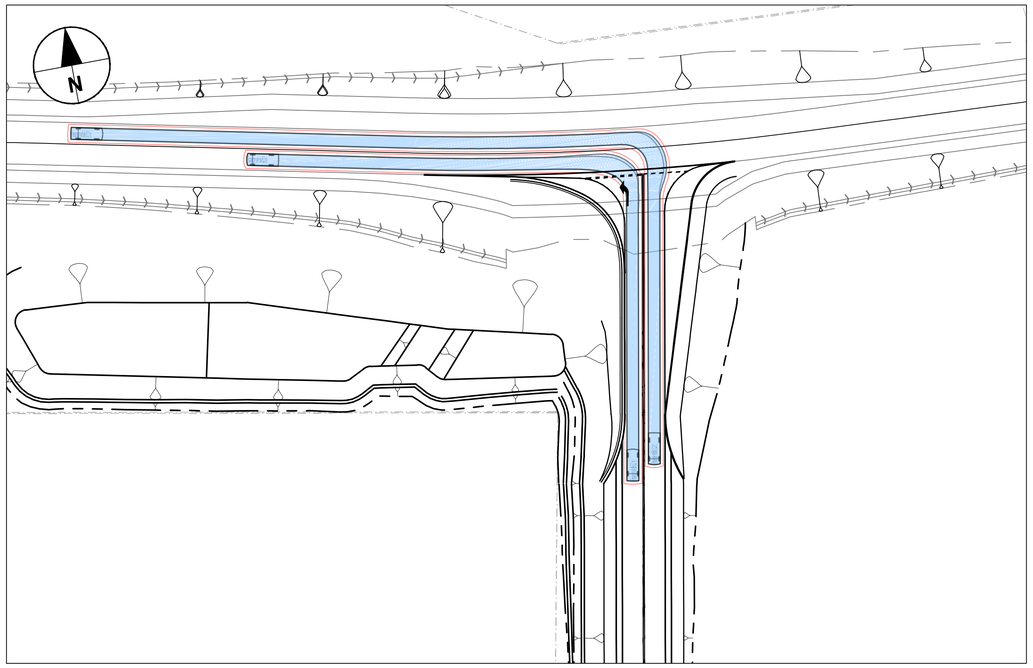
SHEET TITLE

WSUD/OSD DETAILS
SHEET 02

SHEET NUMBER

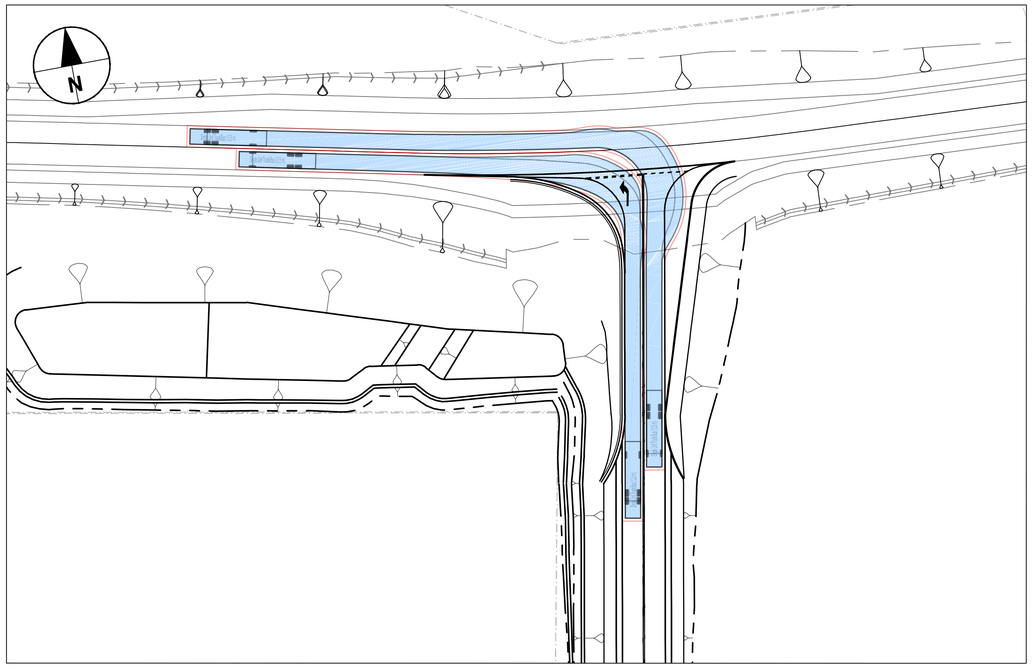
60646285-SHT-00-1000-CI-0962

ISO A1 594mm x 841mm



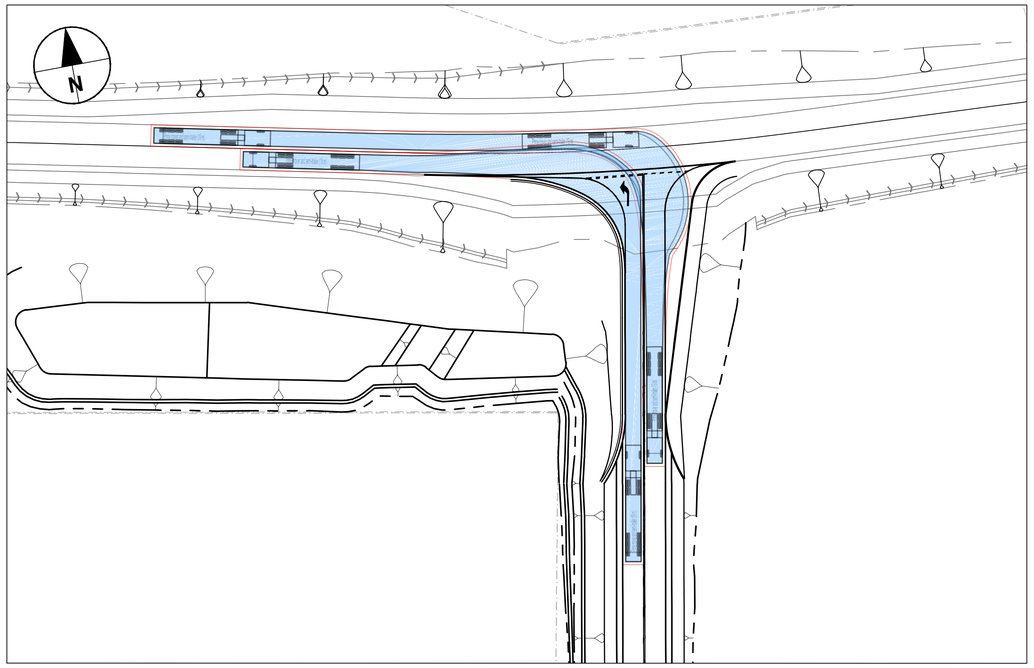
5.2m PASSENGER VEHICLE TURNING MOVEMENTS
METRO ACCESS TRACK AND ACCESS ROAD

SCALE 1:500



12.5m VEHICLE TURNING MOVEMENTS
METRO ACCESS TRACK AND ACCESS ROAD

SCALE 1:500



19m VEHICLE TURNING MOVEMENTS
METRO ACCESS TRACK AND ACCESS ROAD

SCALE 1:500

LEGEND

- INDICATES VEHICLE OVERHANG
- INDICATES WHEEL PATH
- INDICATES 500mm CLEARANCE FROM VEHICLE BODY

NOTES

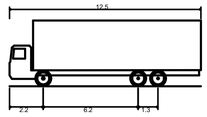
1. VEHICLE MOVEMENTS TRACKED AT 15km/h UNLESS NOTED OTHERWISE.

DESIGN VEHICLES

Passenger vehicle (5.2 m)

Overall Length	5.200m
Overall Width	1.940m
Overall Body Height	1.804m
Min Body Ground Clearance	0.295m
Track Width	1.840m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	6.300m

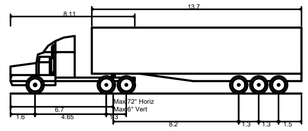
5.2m PASSENGER VEHICLE



Single Unit Truck/Bus (12.5 m)

Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.490m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

12.5m SINGLE UNIT TRUCK/BUS



Prime mover and semi-trailer (19 m)

Overall Length	19.000m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.540m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

19m PRIME MOVER AND SEMI-TRAILER

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AECOM

CONSULTANT

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www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	22.05.23	ISSUED FOR CONSTRUCTION
3	29.04.22	ISSUED FOR TENDER
2	05.04.22	DRAFT TENDER COORDINATION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

FOR CONSTRUCTION

PROJECT NUMBER

60646285

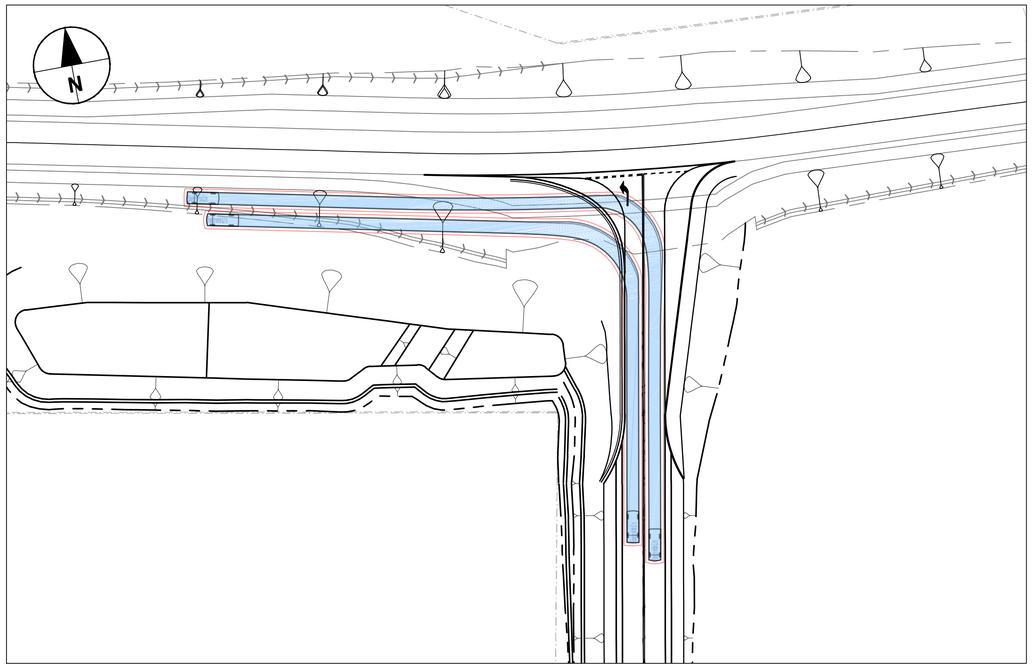
SHEET TITLE

VEHICLE TURNPATH PLAN
SHEET 01

SHEET NUMBER

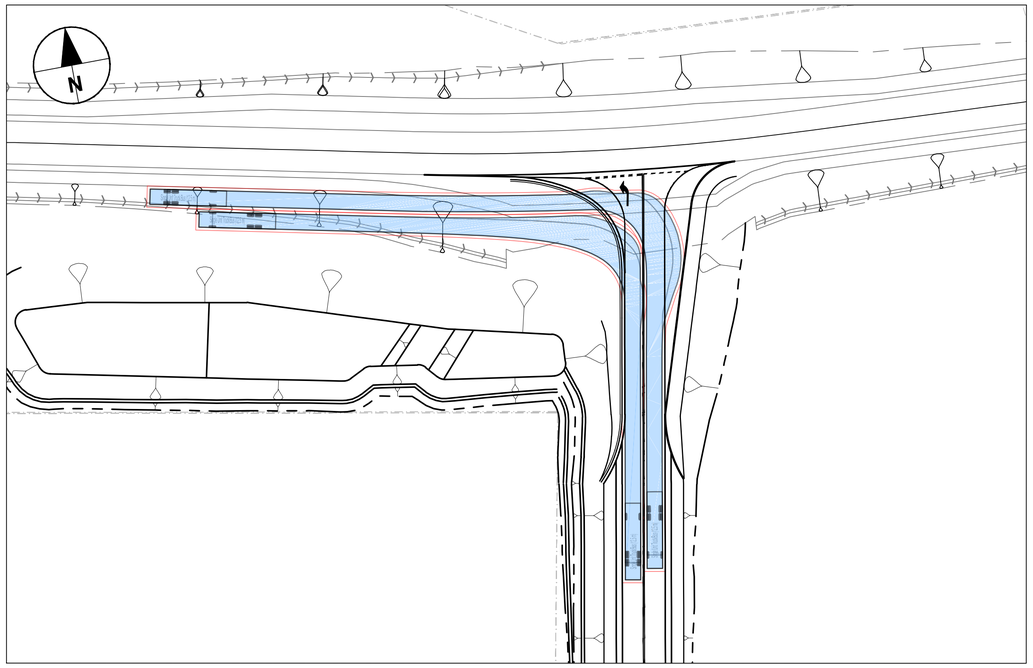
60646285-SHT-00-1000-CI-0971

ISO A1 594mm x 841mm



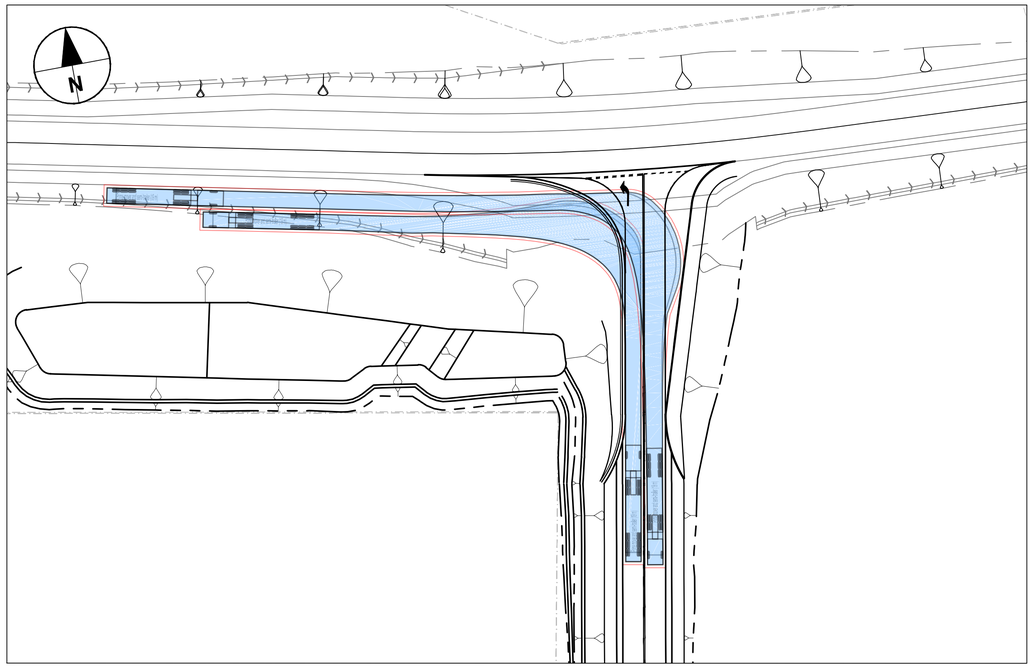
5.2m PASSENGER VEHICLE TURNING MOVEMENTS
CONSTRUCTION ROAD AND METRO ACCESS TRACK

SCALE 1:500



12.5m VEHICLE TURNING MOVEMENTS
CONSTRUCTION ROAD AND METRO ACCESS TRACK

SCALE 1:500



19m VEHICLE TURNING MOVEMENTS
CONSTRUCTION ROAD AND METRO ACCESS TRACK

SCALE 1:500

LEGEND

INDICATES VEHICLE OVERHANG
INDICATES WHEEL PATH
INDICATES 500mm CLEARANCE FROM VEHICLE BODY

NOTES

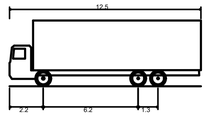
1. VEHICLE MOVEMENTS TRACKED AT 15km/h UNLESS NOTED OTHERWISE.

DESIGN VEHICLES

Passenger vehicle (5.2 m)

Overall Length	5.200m
Overall Width	1.940m
Overall Body Height	1.804m
Min Body Ground Clearance	0.295m
Track Width	1.840m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	6.300m

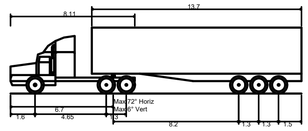
5.2m PASSENGER VEHICLE



Single Unit Truck/Bus (12.5 m)

Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.490m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

12.5m SINGLE UNIT TRUCK/BUS



Prime mover and semi-trailer (19 m)

Overall Length	19.000m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.540m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

19m PRIME MOVER AND SEMI-TRAILER

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CONSULTANT

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www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	22.05.23	ISSUED FOR CONSTRUCTION
3	29.04.22	ISSUED FOR TENDER
2	05.04.22	DRAFT TENDER COORDINATION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

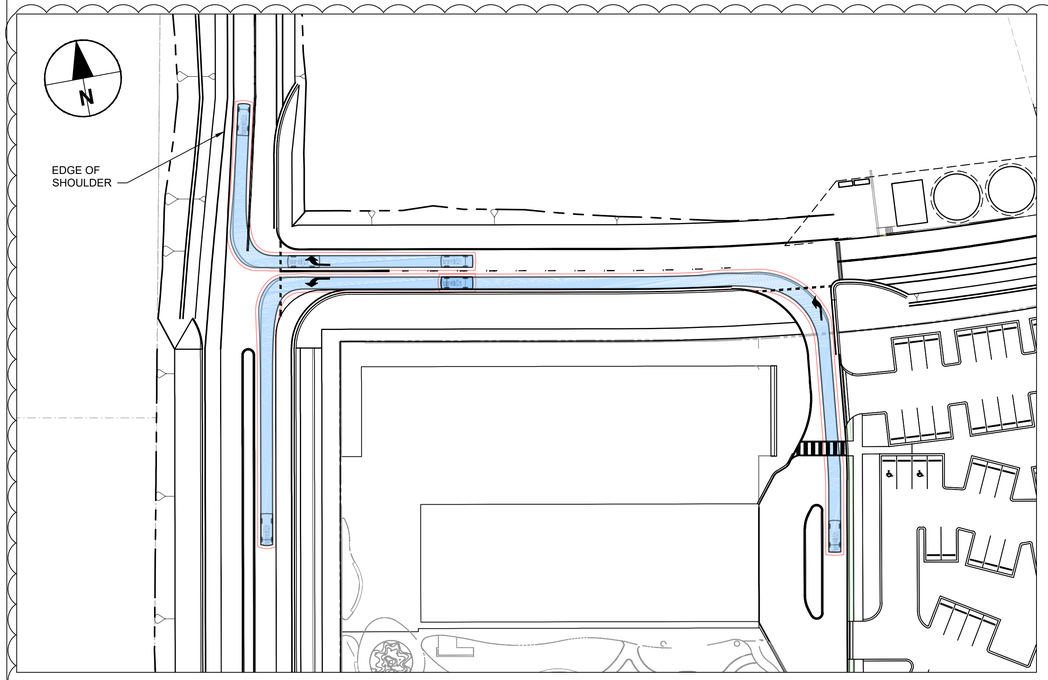
VEHICLE TURNPATH PLAN
SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-CI-0972

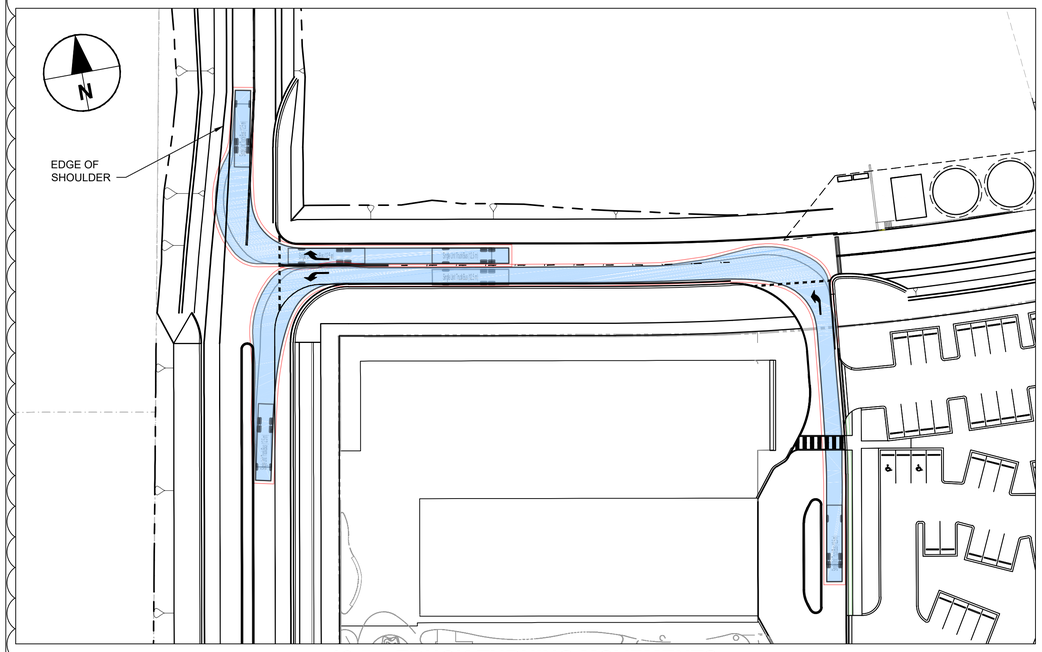
07

ISO A1 594mm x 841mm



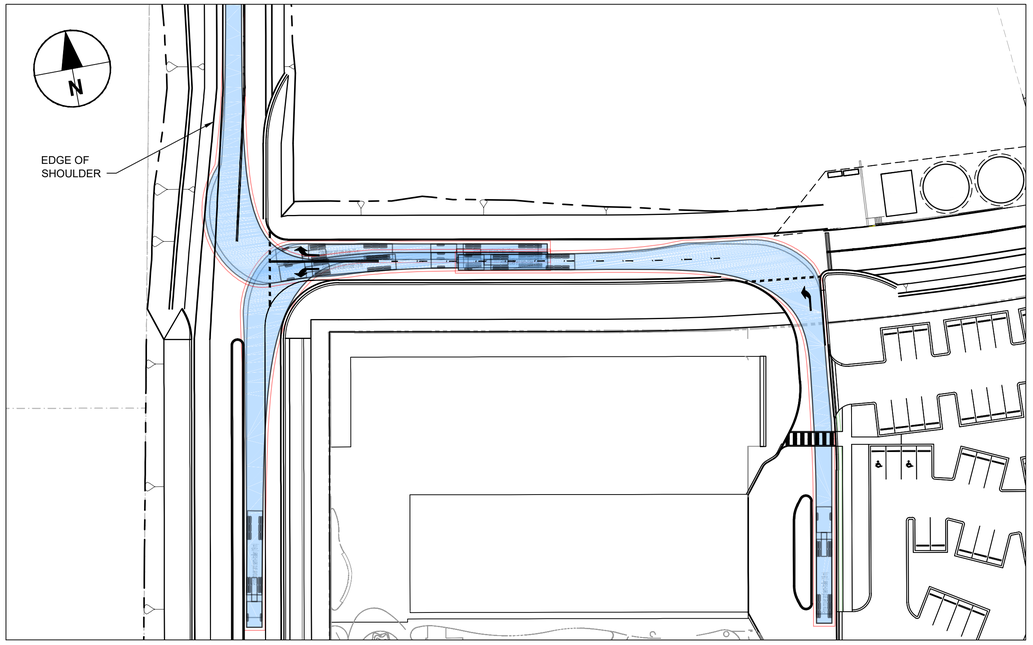
5.2m PASSENGER VEHICLE TURNING MOVEMENTS
15TH AVENUE AND ACCESS ROAD

SCALE 1:500



12.5m TRUCK TURNING MOVEMENTS
15TH AVENUE AND ACCESS ROAD

SCALE 1:500



19m TRUCK TURNING MOVEMENTS
15TH AVENUE AND ACCESS ROAD

SCALE 1:500

LEGEND

- INDICATES VEHICLE OVERHANG
- INDICATES WHEEL PATH
- INDICATES 500mm CLEARANCE FROM VEHICLE BODY

NOTES

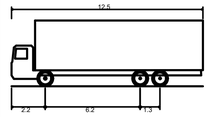
1. VEHICLE MOVEMENTS TRACKED AT 15km/h UNLESS NOTED OTHERWISE.

DESIGN VEHICLES

Passenger vehicle (5.2 m)

Overall Length	5.200m
Overall Width	1.940m
Overall Body Height	1.804m
Min Body Ground Clearance	0.295m
Track Width	1.840m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	6.300m

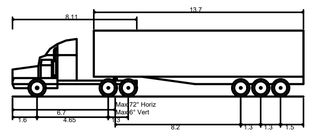
5.2m PASSENGER VEHICLE



Single Unit Truck/Bus (12.5 m)

Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.490m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

12.5m SINGLE UNIT TRUCK/BUS



Prime mover and semi-trailer (19 m)

Overall Length	19.000m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.540m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

19m PRIME MOVER AND SEMI-TRAILER

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
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AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
7	15.08.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	22.05.23	ISSUED FOR CONSTRUCTION
3	29.04.22	ISSUED FOR TENDER
2	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

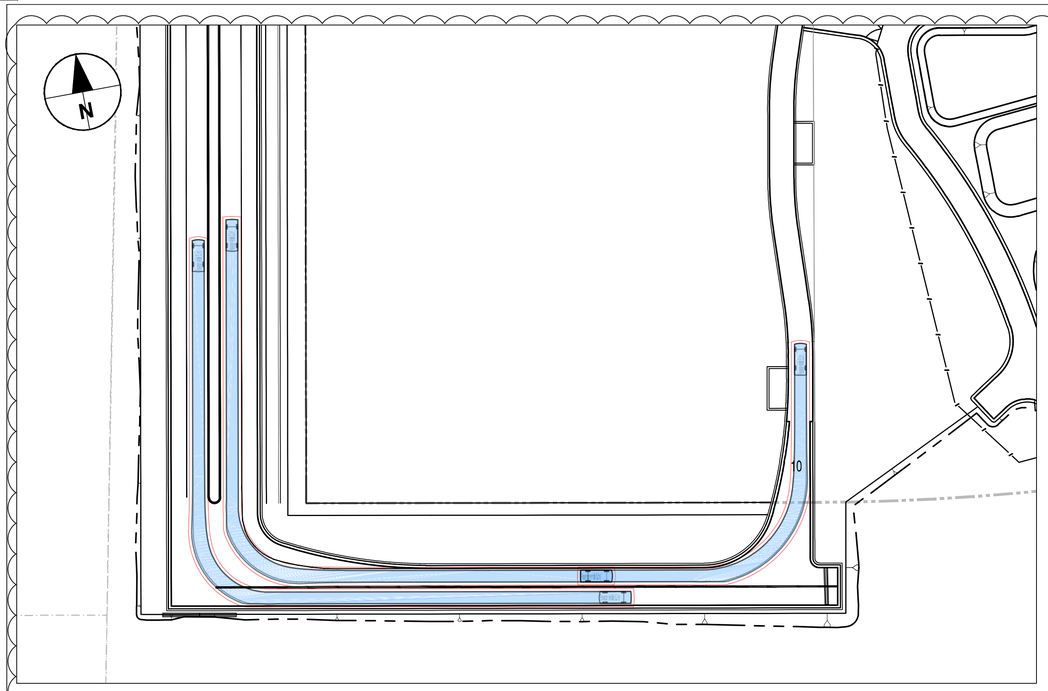
VEHICLE TURNPATH PLAN
SHEET 03

SHEET NUMBER

60646285-SHT-00-1000-CI-0973

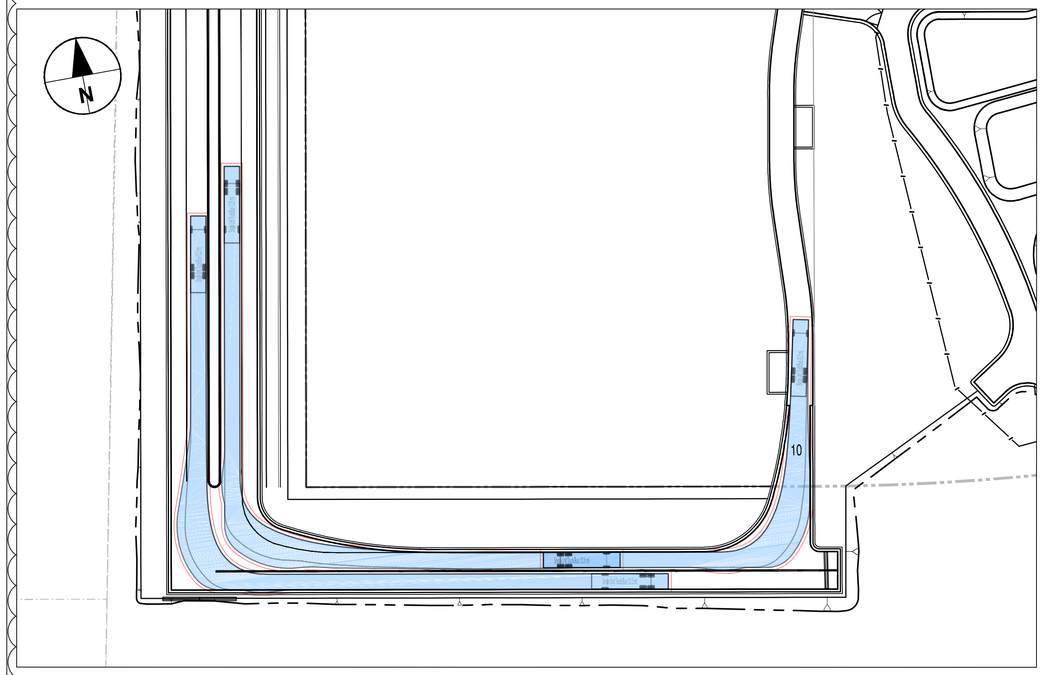
07

ISO A1 594mm x 841mm



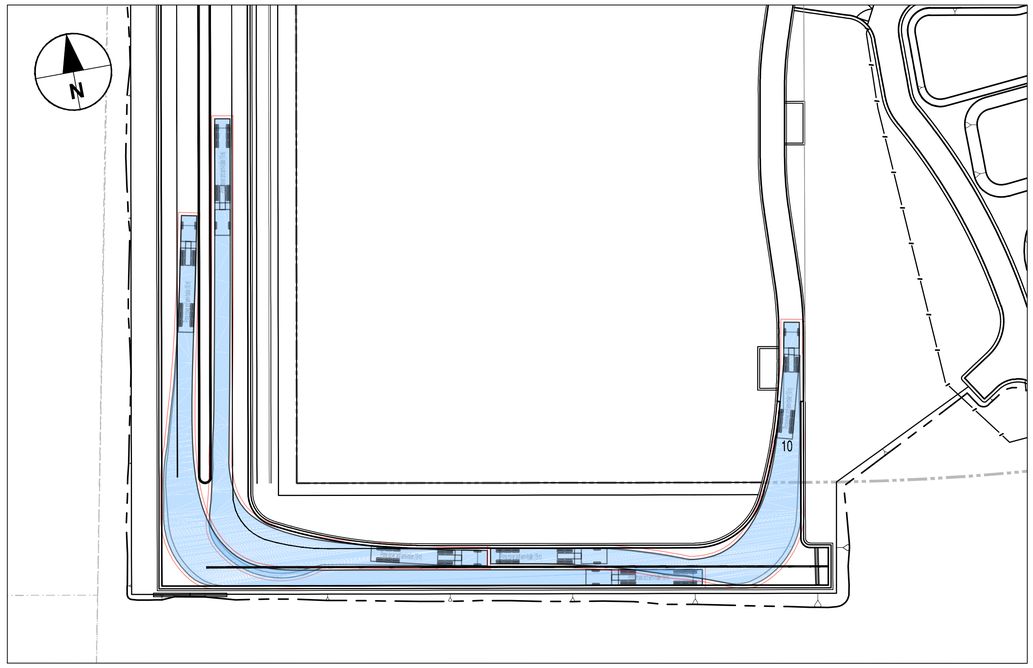
5.2m PASSENGER VEHICLE TURNING MOVEMENTS
ACCESS TO FIRST BUILDING LOT

SCALE 1:500



12.5m TRUCK TURNING MOVEMENTS
ACCESS TO FIRST BUILDING LOT

SCALE 1:500



19m TRUCK TURNING MOVEMENTS
ACCESS TO FIRST BUILDING LOT

SCALE 1:500

LEGEND

- INDICATES VEHICLE OVERHANG
- INDICATES WHEEL PATH
- INDICATES 500mm CLEARANCE FROM VEHICLE BODY

NOTES

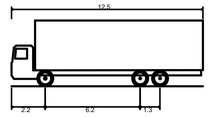
1. VEHICLE MOVEMENTS TRACKED AT 15km/h UNLESS NOTED OTHERWISE.

DESIGN VEHICLES

Passenger vehicle (5.2 m)

Overall Length	5.200m
Overall Width	1.940m
Overall Body Height	1.804m
Min Body Ground Clearance	0.295m
Track Width	1.840m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	6.300m

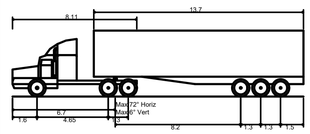
5.2m PASSENGER VEHICLE



Single Unit Truck/Bus (12.5 m)

Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.490m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

12.5m SINGLE UNIT TRUCK/BUS



Prime mover and semi-trailer (19 m)

Overall Length	19.000m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.540m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

19m PRIME MOVER AND SEMI-TRAILER

Last saved by: SHION.WATAKABE(2023-08-15) Last Plotted: 2023-11-16
Filename: C:\PWWORKING\AECOM_DS10_AU\SHION.WATAKABE@AECOM.COM\D0312723\60646285-SHT-00-1000-CI-0974.DWG

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AECOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
7	15.08.23	ISSUED FOR CONSTRUCTION
6	14.04.23	ISSUED FOR CONSTRUCTION
5	23.01.23	ISSUED FOR DRAFT IFC
4	22.05.23	ISSUED FOR CONSTRUCTION
3	29.04.22	ISSUED FOR TENDER
2	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

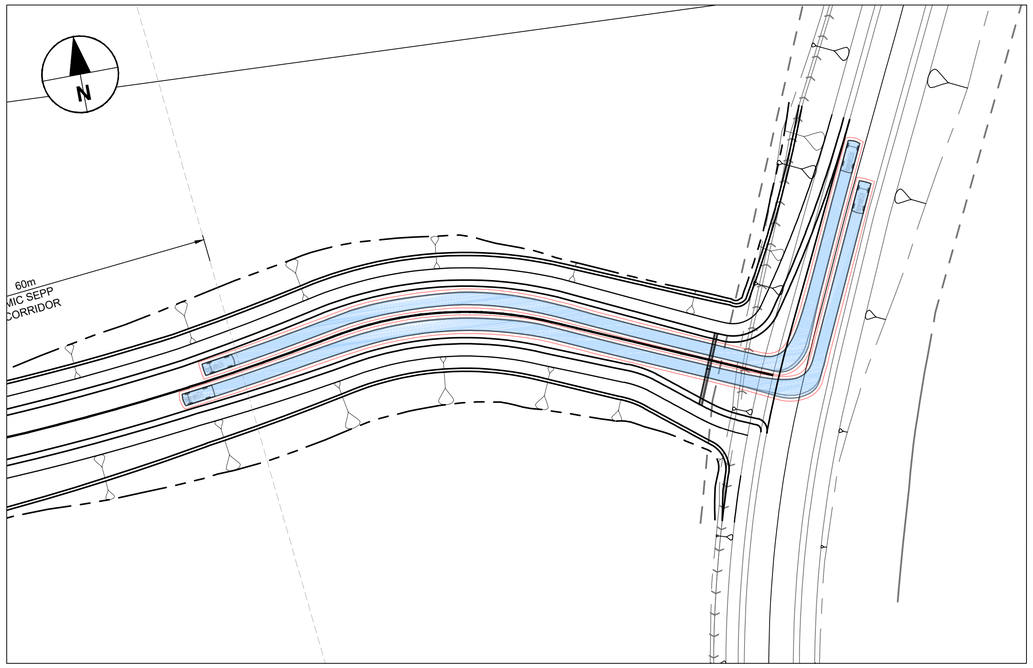
SHEET TITLE

VEHICLE TURNPATH PLAN
SHEET 04

SHEET NUMBER

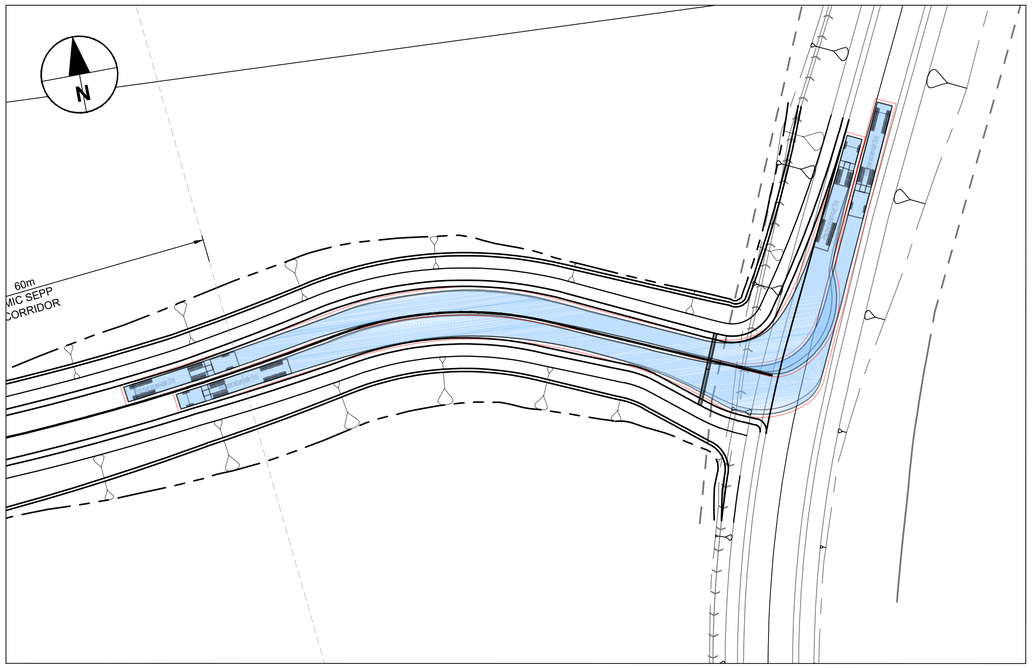
60646285-SHT-00-1000-CI-0974

ISO A1 594mm x 841mm



5.2m PASSENGER VEHICLE TURNING MOVEMENTS
METRO ROAD AND TEMPORARY CONSTRUCTION EXTENSION

SCALE 1:500



19m PRIME MOVER ANS SEMI TRAILER
METRO ROAD AND TEMPORARY CONSTRUCTION EXTENSION

SCALE 1:500

LEGEND

- INDICATES VEHICLE OVERHANG
- INDICATES WHEEL PATH
- INDICATES 500mm CLEARANCE FROM VEHICLE BODY

NOTES

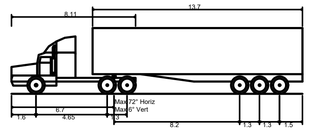
1. VEHICLE MOVEMENTS TRACKED AT 15km/h UNLESS NOTED OTHERWISE.

DESIGN VEHICLES

Passenger vehicle (5.2 m)

Overall Length	5.200m
Overall Width	1.940m
Overall Body Height	1.804m
Min Body Ground Clearance	0.295m
Track Width	1.840m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	6.300m

5.2m PASSENGER VEHICLE



Prime mover and semi-trailer (19 m)

Overall Length	19.000m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.540m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

19m PRIME MOVER AND SEMI-TRAILER

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This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001-2000.

AECOM

CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO
- ☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	14.04.23	ISSUED FOR CONSTRUCTION
4	22.05.23	ISSUED FOR CONSTRUCTION
3	02.09.22	ISSUED FOR APPROVAL
2	29.04.22	ISSUED FOR TENDER
1	22.04.22	DRAFT TENDER COORDINATION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

VEHICLE TURNPATH PLAN
SHEET 05

SHEET NUMBER

60646285-SHT-00-1000-CI-0975

ISO A1 594mm x 841mm

SEDIMENT BASIN OPERATION & DEWATERING

(DURING CONSTRUCTION)

1. NO WATER TO BE RELEASED FROM BASIN UNTIL SEDIMENT CONCENTRATES ARE LESS THAN 50mg/L FOR BASINS OTHER THAN TYPE B
2. MINIMUM STORAGE IN BASINS, AS NOTED IN THE BASIN SCHEDULE, ARE TO BE MAINTAINED/RETURNED WITHIN 5 DAYS OF CESSATION OF RAINFALL.
3. GYPSUM IS TO BE STORED ON SITE OR TO BE AVAILABLE TO DOSE BASIN AT 35kg/100m3 - MINIMUM 112kg TO BE AVAILABLE.
4. DEWATERING ACTIVITIES ARE TO BE DIRECTLY SUPERVISED FOR THEIR ENTIRE DURATION.
5. SITE RECORDS ARE TO BE MAINTAINED FOR SAMPLING, TESTING AND DISCHARGES.

FLOCCULATION

1. TYPE C AND D SEDIMENT BASINS ARE TO BE TREATED WITH AN APPROPRIATE FLOCCULANT AS AGREED AND APPROVED BY THE ON-SITE CPESC.
2. FLOCCULANT USE AND RATES FOR TYPE B BASINS WILL BE CONFIRMED BY CPESC FOLLOWING JAR TESTING.
3. TYPE C AND D BASINS SHOULD THEN BE DRAINED FOLLOWING A PERIOD OF AT LEAST 3 DAYS, PROVIDING WATER ANALYSIS TESTS SHOW SUSPENDED SEDIMENT CONCENTRATIONS ARE BELOW 50mg/L AND PER THE BELOW TABLE:

WQ	CRITERIA
TSS	<50 PPM
pH	pH 6.5-8.5
NO VISIBLE	OIL OR GREASE

4. REFER TO APPENDIX E, SECTION E4.1 OF MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION VOL 1 ('THE BLUE BOOK') FOR PROPER PROCEDURE OF GYPSUM APPLICATION.

SITE ACCESS MANAGEMENT

1. SITE CONSTRUCTION ACCESS IS TO BE VIA A NORTHERN ACCESS ROAD.
2. STABILISED SITE ACCESS CONTROLS ARE TO BE ESTABLISHED AT THE EXITS TO SITE AS PER THE PROVIDED DETAILS AND PLANS.
3. DAMAGE TO EXISTING ROAD INFRASTRUCTURE AS A RESULT OF CONSTRUCTION ACTIVITIES ARE TO BE RECTIFIED BY THE CONTRACTOR AT THE COMPLETION OF WORKS.
4. ALL CONSTRUCTION MACHINERY AND MATERIALS ARE TO BE LOADED AND UNLOADED WITHIN THE SITE BOUNDARY.

CLEARING & GRUBBING

1. ALL SILT FENCES AND FILTER BARRIERS ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY LAND CLEARING ACTIVITIES.
2. TYPE B BASINS, AS NOMINATED ON PLANS, ARE TO BE CONSTRUCTED AND STABILISED PRIOR TO ANY SITE DISTURBANCE OR CLEARING.
3. CLEARING OF THE SITE IS TO BE STAGED, TO MINIMISE DURATION OF DISTURBED EARTH BEING EXPOSED.
4. CLEARING AND GENERAL EARTHWORKS ARE TO BE AVOIDED DURING PERIODS OF EXPECTED RAINFALL OR FOLLOWING HEAVY PERIODS OF RAINFALL THAT HAS RESULTED IN SATURATED SOIL.
5. STRIPPING OF TOPSOIL TO OCCUR ONLY AFTER PRIMARY DEDICATED SEDIMENT CONTROLS HAVE BEEN PUT IN PLACE.

CLEAN WATER DIVERSION

1. ALL UPSTREAM DIVERSION SWALES ARE TO BE ESTABLISHED AND STABILISED AS PER THE PROVIDED SOIL & WATER MANAGEMENT PLAN AND THIS ESCP AT THE START OF WORKS, FOLLOWING SITE ESTABLISHMENT, TO DIRECT CLEAN UPSTREAM WATER FROM UNDISTURBED AREAS AROUND THE SITE.

STOCKPILE MANAGEMENT

1. ALL TOPSOIL IS TO BE STOCKPILED ON SITE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
2. DETAILS OF NOMINATED STOCKPILE AREAS AND CONTROL MEASURES ARE PROVIDED ON THESE ESCP PLANS AND DETAILS.
3. STOCKPILES NOT WORKED WITHIN A PERIOD OF 10 DAYS WILL BE STABILISED PER THE REQUIREMENTS OF THE BLUE BOOK TABLE 7.1
4. STOCKPILES TO BE MIN 10m FROM DRAINAGE LINES AND NOT UNDER DRIP LINE OF TREES THAT ARE TO BE RETAINED

REFUELLING

1. VEHICLE REFUELING AREAS ARE TO BE LOCATED OUTSIDE THE PATH OF EXPECTED OR POTENTIAL OVERLAND FLOWS OF RAIN WATER.
2. VEHICLE MAINTENANCE AND REUELING AREAS ARE TO BE FITTED WITH DRIP PANS OR SIMILAR TO CONTROL POLLUTION RUNOFF.

EMERGENCY PROCEDURES FOR SPILLS

1. A CEMP IS TO BE PREPARED BY THE CONTRACTOR THAT PROVIDES SUFFICIENT DETAIL ON THE PROPOSED METHOD OF STORAGE AND HANDLING OF ALL CHEMICAL, PETROLS, LUBRICANTS AND OILS. THE CEMP IS TO INCLUDE DETAILS ON EMERGENCY SPILL PROCEDURES, RESPONSIBLE PERSONNEL, AND EMERGENCY CONTACTS.

SITE STABLISATION AND REVEGETATION

1. REVEGETATION AND STABLISATION WILL BE CONSIDERED UNSATISFACTORY UNLESS A MINIMUM 70% GROUND COVER, AT LEAST 100mm HIGH IS ACHIEVED OVER ALL DISTURBED AREAS. REFER TO TABLE 7.1 OF THE BLUE BOOK FOR TIMING FOR STABILISATION REQUIREMENTS.
2. ALL TEMPORARY EARTH BERMS, DIVERSION AND SEDIMENT BASIN EMBANKMENTS ARE TO BE TRACK ROLLED, SEEDED OR MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED
3. A STRIP OF TURF IS TO BE PLACED IMMEDIATELY BEHIND THE KERB AND GUTTER ON ALL NEW ROADS AND AT ADDITIONAL LOCATIONS AS DETERMINED BY THE PRINCIPAL AUTHORISED PERSON.
4. THE AREA OF ALL STORMWATER AND SEWER LINES NOT IN STREETS IS TO BE MULCHED AND SEEDED AS SOON AS POSSIBLE BUT NO LATER THAN WITHIN 14-DAYS AFTER BACKFILL.
5. AREAS OVER ELECTRICITY POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE SEEDED AND MULCHED AS SOON AS POSSIBLE BUT NO LATER THAN WITHIN 14-DAYS AFTER BACKFILL
6. STABILISATION OF ALL CUT AND FILL SLOPES SHALL BE COMMENCED WITHIN 14-DAYS OF COMPLETION OF FORMATION.
7. ANY SEEDED AREAS WHICH FAIL TO GERMINATE OR WHERE GERMINATION IS SPARSE AFTER 21 DAYS FROM INITIAL SEEDING MUST BE RESEEDED.
8. NO MORE THAN 150m OF TRENCHING SHALL BE OPEN AT ANY ONE TIME.
9. ALL FILL AREAS ARE TO BE LEFT WITH A WINDROW AT LEAST 200mm HIGH AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S EARTHWORKS, AND ALL EARTHWORKS AREAS SHALL BE ROLLED EACH EVENING TO "SEAL" THE EARTHWORKS.

RAINFALL INSPECTION FREQUENCY AND RECORDING

1. DAILY RAINFALL LOGS ARE TO BE RECORDED AND MAINTAINED ON SITE.
2. SITE INSPECTIONS FOR ALL ESC MEASURES ARE TO BE CONDUCTED WITHIN 24 HOURS PRIOR TO ALL EXPECTED RAINFALL AND WITHIN 12 HOURS OF ALL RAINFALL EVENTS THAT HAVE GENERATED RUNOFF.
3. VISUAL INSPECTION FOR RAINFALL IMPACT OF ALL ESC MEASURES IS TO BE DONE DAILY DURING RAINFALL EVENTS.
4. IDENTIFIED FAILURES OF ESC MEASURES ARE TO BE INVESTIGATED FOR CAUSE AND NEW MEASURES IMPLEMENTED TO SUIT.

INSTALLATION, MONITORING AND MAINTENANCE OF ESC MEASURES

1. SEDIMENT CONTROLS ARE TO BE INSTALLED PRIOR TO LAND CLEARING OR EARTHWORKS.
2. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AT ALL TIMES SO THAT THOSE MEASURES ARE FULLY FUNCTIONAL AND OPERATIONAL DURING THE CURRENCY OF WORKS. ALL SUCH CONTROLS MUST ALSO BE FULLY FUNCTIONAL AND OPERATIONAL SHOULD WORK OPERATIONS CEASE TEMPORARILY (e.g. WEEKENDS, RDO, etc.)
3. ALL FINAL EROSION PREVENTION MEASURES, INCLUDING ESTABLISHMENT OF GRASSING, ARE TO BE COMPLETED PRIOR TO THE SITE FINAL INSPECTION.
4. INSPECTIONS BY SITE SUPERINTENDENT OR SITE ENVIRONMENTAL REPRESENTATIVE IS REQUIRED FOR BOTH PRE- AND POST- RAINFALL EVENTS.
5. DUST SUPPRESSION MEASURES ARE TO BE ENFORCED DURING THE EXCAVATION OF THE SITE AND ARE TO BE MAINTAINED DURING THE CONSTRUCTION AS DEEMED APPROPRIATE BY PRINCIPAL AUTHORISED PERSON.

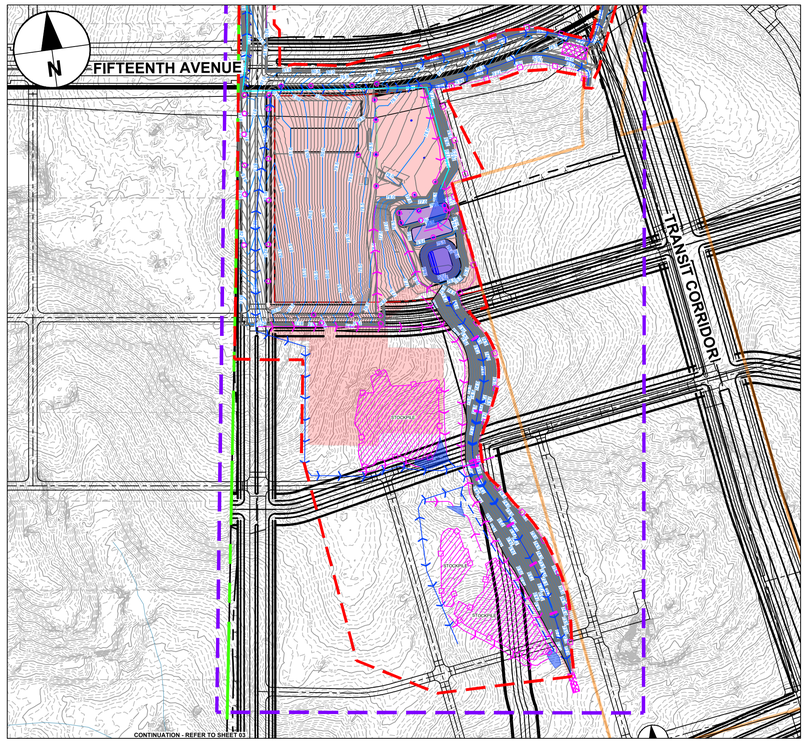
ESC MODIFICATION TRIGGERS

1. ESTABLISHMENT OF FIRE BREAKS SHALL BE CARRIED OUT IN CONSULTATION WITH A FIRE CONTROL OFFICER.

STAGING

1. TYPE B SEDIMENT BASINS, AS NOMINATED ON PLAN, ARE TO BE CONSTRUCTED FIRST AND INSPECTED BY CPESC AS BEING PROPERLY STABILISED AND FULLY OPERATIONAL BEFORE ANY FURTHER GROUND DISTURBANCE TAKES PLACE.
2. INSTALL EROSION AND SEDIMENT CONTROLS INCL. CATTLE GRID TO NORTH. ESTABLISH SITE CARPARK AND ACCOMMODATION.
3. INSTALL SWALE TO THE SOUTH WEST OF THE PROJECT (OSD AND BIO RETENTION INSTALLED AT THIS STAGE) DIG OUT IN GROUND SERVICES TO THE SITE ACCOMMODATION
4. EXCAVATE NEW CARPARK/EXISTING SWAMP TO THE EAST OF THE BUILDING. MAINTAINING STOCKPILE TO THE SOUTH OF SITE
5. EXCAVATE BUILDING FOOT PRINT AND LANDSCAPE AREAS AND PREPARE MOBILE CRANE PLATFORMS. MAKE GOOD TO STOCKPILE TO THE SOUTH OF SITE. POTENTIAL TO MOVE EARTH TO THE LOCATION OF THE CARPARK
6. INSTALL PILING PLATFORM (TO THE UNDERSIDE OF THE SOG) TO THE SITE FOOTPRINT AND ROADBASE/GRAVEL (OR SIMILAR MATERIAL TO BE REUSED FOR ROADWORKS OR LEFT IN PLACE PENDING INGROUND SERVICES DESIGN) TO THE NEW CARPARK TO ALLOW TO REDIRECT TRAFFIC FROM EASTERN ROAD TO NORTHERN ROAD
7. OPPORTUNITY TO CAPTURE WORKS TO THE ROAD ON THE NORTH OF SITE PENDING DESIGN/RESOURCING.

STAGE 1



PLAN

SCALE 1:2500

SEDIMENT BASIN DESIGN PARAMETERS - TYPE B

1. PRIMARY SEDIMENT BASIN SIZING IS BASED ON THE IECA APPENDIX B METHODOLOGY AND REQUIREMENTS.
2. PARAMETERS USED FOR THE DESIGN OF THE PRIMARY SEDIMENT TREATMENT BASIN ARE LISTED BELOW:
   - 2.1. TYPE B, OPTION 1B METHODOLOGY
   - 2.2. 1EY DESIGN FLOW RATE FOR THE SEDIMENT BASIN = 285 L/s (NORTHERN BASINS = 20L/s EACH)
   - 2.3. FOOTPRINT REQUIRED, SOUTH BASIN = 1600sqm, NORTHERN BASINS 220sqm EACH
   - 2.4. FLOW RATES BASED ON ASSUMPTION THAT CLEAN WATER FROM UNDISTURBED AREAS ARE DIVERTED AROUND THE SITE.
   - 2.5. LENGTH = 135m NOMINAL, WIDTH (AVERAGE) = 7.5m
   - 2.6. Ks = 12,000 (ASSUMED DUE TO LACK OF SITE BASED LAB DATA)
3. PRIMARY TYPE B BASINS (NORTHERN AND SOUTHERN) ARE TO BE CONSTRUCTED FIRST AND FULLY ESTABLISHED, STABILISED AND OPERATIONAL PRIOR TO DISTURBANCE OF THE REMAINDER OF THE SITE.
4. THE SOUTHERN BASIN REQUIRES THAT THE OSD OUTLET SWALE IS ALSO ESTABLISHED, STABILISED AND OPERATIONAL PRIOR TO DISTURBANCE OF THE SITE.

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CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 62.5 125 m
1:2500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	22.05.23	ISSUED FOR CONSTRUCTION
1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

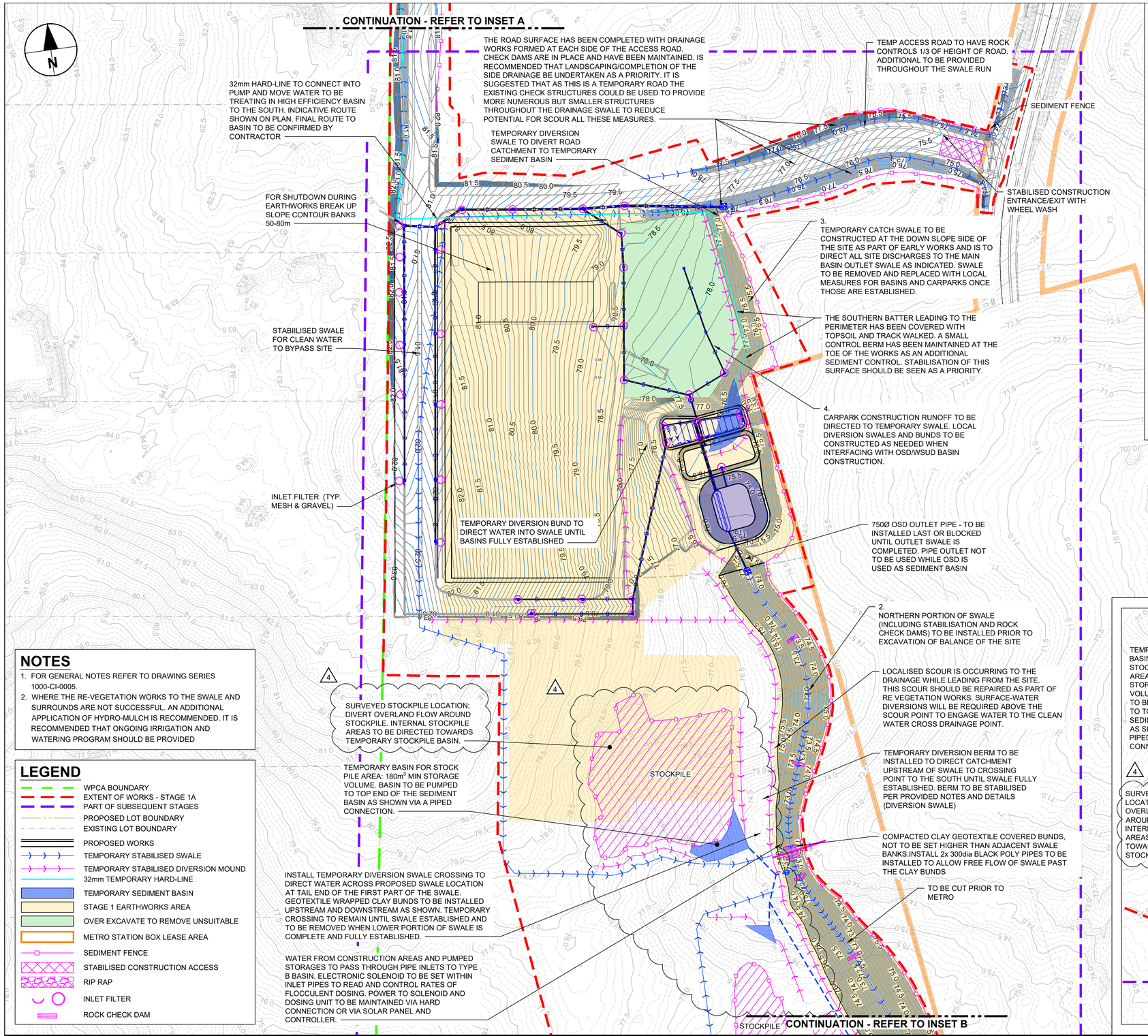
SHEET TITLE

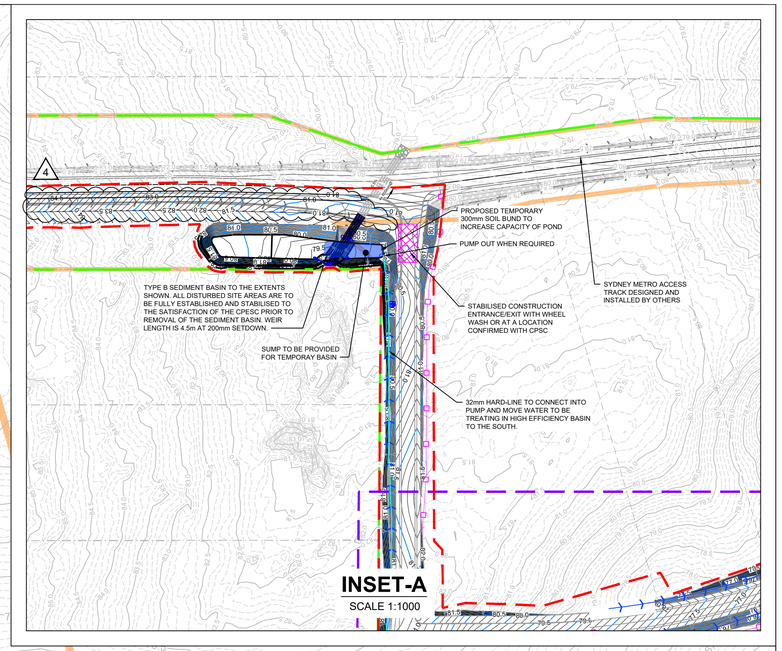
SEDIMANT AND EROSION CONTROL NOTES

SHEET NUMBER

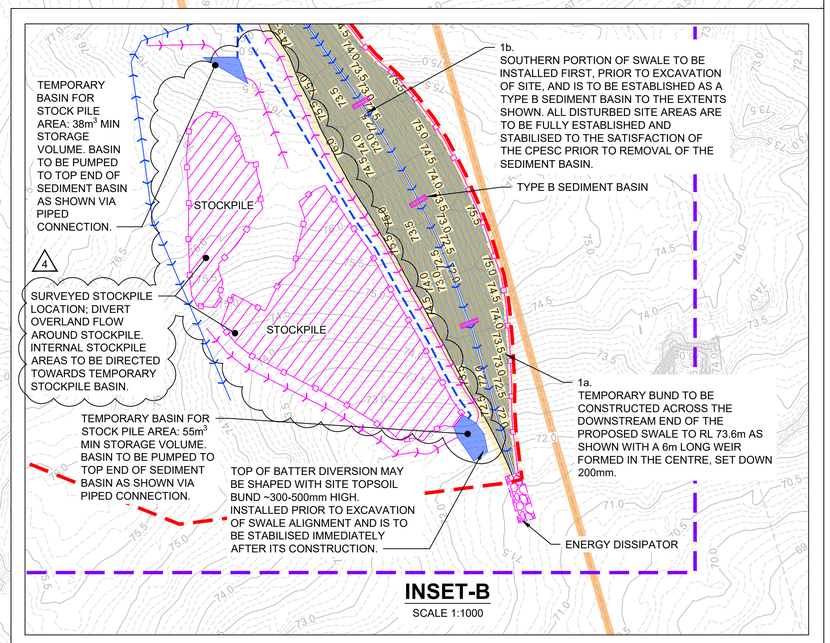
60646285-SHT-00-1000-CI-0980

ISO A1 594mm x 841mm





INSET-A
SCALE 1:1000



INSET-B
SCALE 1:1000

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.
2. WHERE THE RE-VEGETATION WORKS TO THE SWALE AND SURROUNDS ARE NOT SUCCESSFUL. AN ADDITIONAL APPLICATION OF HYDRO-MULCH IS RECOMMENDED. IT IS RECOMMENDED THAT ONGOING IRRIGATION AND WATERING PROGRAM SHOULD BE PROVIDED

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- PART OF SUBSEQUENT STAGES
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED WORKS
- TEMPORARY STABILISED SWALE
- TEMPORARY STABILISED DIVERSION MOUND
- 32mm TEMPORARY HARD-LINE
- TEMPORARY SEDIMENT BASIN
- STAGE 1 EARTHWORKS AREA
- OVER EXCAVATE TO REMOVE UNSUITABLE
- METRO STATION BOX LEASE AREA
- SEDIMENT FENCE
- STABILISED CONSTRUCTION ACCESS
- RIP RAP
- INLET FILTER
- ROCK CHECK DAM

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CONSULTANT
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PROJECT
AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT
NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR
0 25 50 m
1:1000

SAFETY IN DESIGN INFORMATION
ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	SOC	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

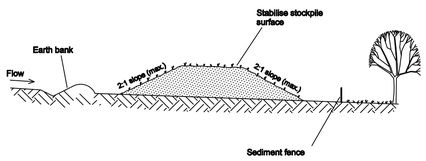
ISSUE/REVISION

I/R	DATE	DESCRIPTION
4	08.11.23	FOR APPROVAL
3	27.09.23	ISSUED FOR CONSTRUCTION
2	22.05.23	ISSUED FOR CONSTRUCTION
1	14.04.23	ISSUED FOR CONSTRUCTION

SHEET TITLE
SEDIMANT AND EROSION CONTROL PLAN

SHEET NUMBER
60646285-SHT-00-1000-CI-0981

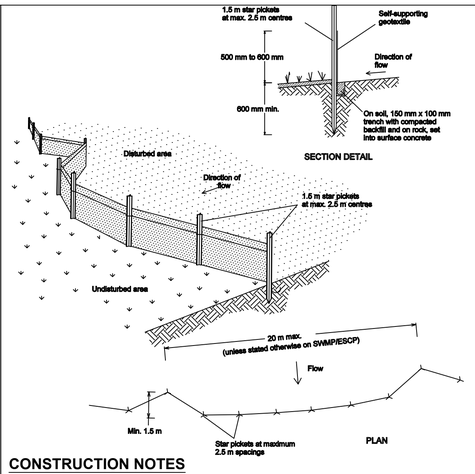
ISO A1 594mm x 841mm



CONSTRUCTION NOTES

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks on the upslope side to divert water around stockpiles and sediment fences 1 to 2 metres downslope.

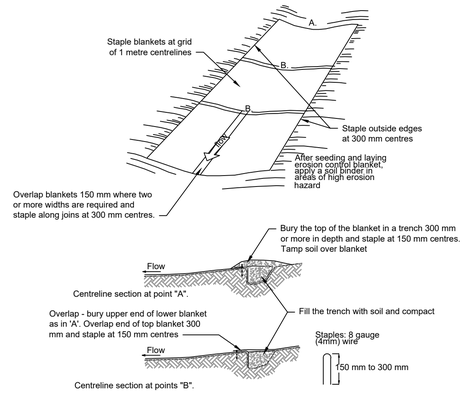
STOCKPILE PROTECTION



CONSTRUCTION NOTES

1. Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. the catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. ensure any star pickets are fitted with safety caps.
4. Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. fix the geotextile with wire ties or as recommended by the manufacturer. only use geotextile specifically produced for sediment fencing. the use of shade cloth for this purpose is not satisfactory.
5. Join sections of fabric at a support post with a 150-mm overlap.
6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

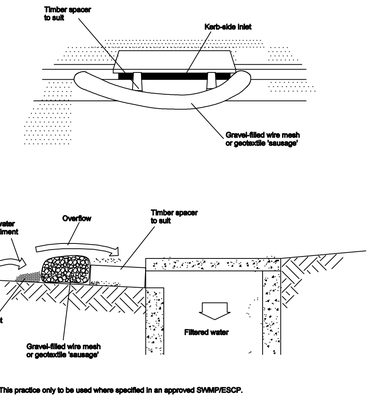
SEDIMENT FENCE SD 6-8



CONSTRUCTION NOTES

1. Remove any rocks, clods, sticks or grass from the surface before laying matting
2. Ensure that topsoil is at least 75 mm deep.
3. Complete fertilising and seeding before laying the matting.
4. Ensure fabric will be continuously in contact with the soil by grading the surface carefully first.
5. Lay the fabric in "shingle-fashion", with the end of each upstream roll overlapping those downstream. Ensure each roll is anchored properly at its upslope end (Standard Drawing 5-7b).
6. Ensure that the full width of flow in the channel is covered by the matting up to the design storm event, usually in the 10-year ARI time of concentration storm event.
7. Divert water from the structure until vegetation is stabilised properly.

RECP : CONCENTRATED FLOW SD 5-7



NOTE: This practice only to be used where specified in an approved SWMP/ESCP.

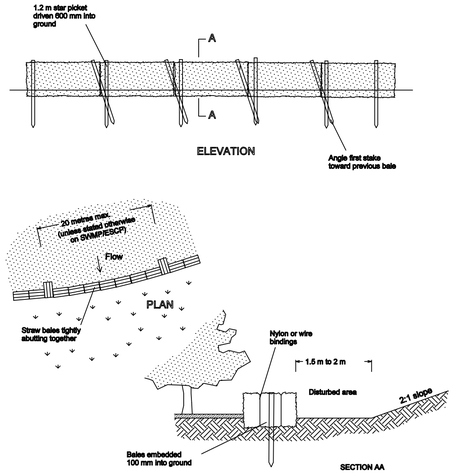
Construction Notes

1. Install filters to kerb inlets only at sag points.
2. Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
3. Form an elliptical cross-section about 150 mm high x 400 mm wide.
4. Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
5. Form a seal with the kerb to prevent sediment bypassing the filter.
6. Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

MESH AND GRAVEL INLET FILTER

EROSION AND SEDIMENTATION CONTROL NOTES

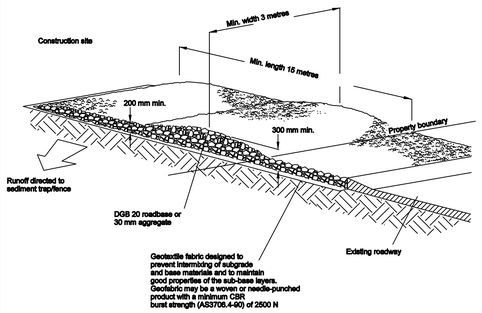
1. UPON COMPLETION OF FINAL EARTHWORKS OR AFTER WRITTEN DIRECTION PRINCIPAL AUTHORISED PERSON, IMMEDIATE SILT CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14-DAYS;
2. ALL PERIMETER AND SILTATION CONTROL MEASURES ARE TO BE THE FIRST STEP IN CLEARING OR EARTHWORKS;
3. THE AREA OVER ALL STORMWATER AND SEWER LINES NOT IN STREETS IS TO BE MULCHED AND SEEDED AS SOON AS POSSIBLE BUT NO LATER THAN WITHIN 14-DAYS AFTER BACKFILL;
4. NO MORE THAN 150-METRES OF TRENCH IS TO BE OPEN AT ANY ONE TIME;
5. AREAS OVER ELECTRICITY POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE SEEDED AND MULCHED AS SOON AS POSSIBLE BUT NO LATER THAN WITHIN 14-DAYS AFTER BACKFILL;
6. ALL TEMPORARY EARTH BERMS, DIVERSION AND SEDIMENT BASIN EMBANKMENTS ARE TO BE TRACK ROLLED, SEEDED OR MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED;
7. ALL FILLS ARE TO BE LEFT WITH A WINDROW AT LEAST 200 MM HIGH AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S EARTHWORKS, AND ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO "SEAL" THE EARTHWORKS;
8. ALL FINAL EROSION PREVENTION MEASURES, INCLUDING ESTABLISHMENT OF GRASSING, ARE TO BE COMPLETED PRIOR TO THE SITE FINAL INSPECTION;
9. STABILISATION OF ALL CUT AND FILL SLOPES SHALL BE COMMENCED WITHIN 14-DAYS OF COMPLETION OF FORMATION;
10. A STRIP OF TURF IS TO BE PLACED IMMEDIATELY BEHIND THE KERB AND GUTTER ON ALL NEW ROADS AND AT ADDITIONAL LOCATIONS AS DETERMINED BY PRINCIPAL AUTHORISED PERSON;
11. ALL TOPSOIL IS TO BE STOCKPILED ON SITE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES AND
12. ESTABLISHMENT OF FIRE BREAKS SHALL BE CARRIED OUT IN CONSULTATION WITH A FIRE CONTROL OFFICER.



CONSTRUCTION NOTES

1. Construct the straw bale filter as close as possible to being parallel to the contours of the site.
2. Place bales lengthwise in a row with ends tightly abutting. Use straw to fill any gaps between bales. Straws are to be placed parallel to ground.
3. Ensure that the maximum height of the filter is one bale.
4. Embed each bale in the ground 75 mm to 100 mm and anchor with two 1.2 metre star pickets or stakes. Angle the first star picket or stake in each bale towards the previously laid bale. Drive them 600 mm into the ground and, if possible, flush with the top of the bales. Where star pickets are used and they protrude above the bales, ensure they are fitted with safety caps.
5. Where a straw bale filter is constructed downslope from a disturbed batter, ensure the bales are placed 1 to 2 metres downslope from the toe.
6. Establish a maintenance program that ensures the integrity of the bales is retained - they could require replacement each two to four months.

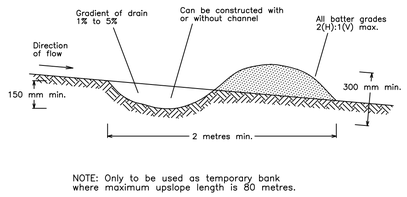
STRAW BALE FILTER



CONSTRUCTION NOTES

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate.
4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

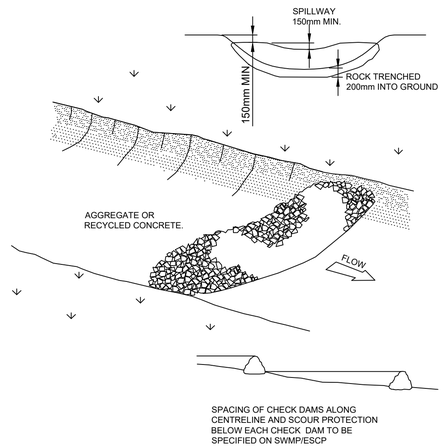
STABILISED SITE ACCESS



CONSTRUCTION NOTES

1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction.

DIVERSION SWALE



CONSTRUCTION NOTES

1. CHECK DAMS CAN BE BUILT WITH VARIOUS MATERIALS, INCLUDING ROCKS, LOGS, SANDBAGS AND STRAW BALES. THE MAINTENANCE PROGRAM SHOULD ENSURE THEIR INTEGRITY IS RETAINED, ESPECIALLY WHERE CONSTRUCTED WITH STRAW BALES. IN THE CASE OF BALES, THIS MIGHT REQUIRE THEIR REPLACEMENT EACH TWO TO FOUR MONTHS.
2. TRENCH THE CHECK DAM 200 MM INTO THE GROUND ACROSS ITS WHOLE WIDTH. WHERE ROCK IS USED, FILL THE TRENCHES TO AT LEAST 100 MM ABOVE THE GROUND SURFACE TO REDUCE THE RISK OF UNDERCUTTING.
3. NORMALLY, THEIR MAXIMUM HEIGHT SHOULD NOT EXCEED 600 MM ABOVE THE GULLY FLOOR. THE CENTRE SHOULD ACT AS A SPILLWAY, BEING AT LEAST 150MM LOWER THAN THE OUTER EDGES.
4. SPACE THE DAMS SO THE TOE OF THE UPSTREAM DAM IS LEVEL WITH THE SPILLWAY OF THE NEXT DOWNSTREAM DAM.

ROCK CHECK DAM SD 5-4

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CONSULTANT
AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT
AEROTROPOLIS CORE PRECINCT BRINGELLY

CLIENT
NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

SAFETY IN DESIGN INFORMATION
ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	CR	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	22.05.23	ISSUED FOR CONSTRUCTION
1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER
60646285

SHEET TITLE
SEDIMANT AND EROSION CONTROL DETAILS

SHEET NUMBER
60646285-SHT-00-1000-CI-0991

ISO A1 594mm x 841mm

SCHEMATIC

- SWITCH
- ISOLATOR
- EARTH LEAKAGE CIRCUIT BREAKER WITH INTEGRAL RESIDUAL CURRENT DEVICE PROTECTION
- CIRCUIT BREAKER
- ISOLATOR / SWITCH
- CIRCUIT BREAKER
- RCD CIRCUIT BREAKER
- SINGLE PHASE
- THREE PHASE
- A O M — AUTO/OFF/MANUAL ISOLATOR SWITCH
- C1 N — CONTACTOR AND CONTACTOR COIL
- LV — NEW LOW VOLTAGE ELECTRICAL CABLE INSTALLED IN HDUPVC ORANGE CONDUITS. REFER TO TRENCH DETAIL FOR CONDUIT SIZE AND DEPTH
- EXISTING DB-EXTERNAL LIGHTING
- E1 — CABLE PIT - 600x600x900, CLASS D TYPE
- E2 — CABLE PIT - 300x300x600, CLASS D TYPE

NOTE ON CABLE PITS:
INTERNAL DIMENSIONS (DxWxL mm)
TO AS 3996:209

- PE CELL

LUMINAIRES

(REFER TO LUMINAIRE SCHEDULE FOR LUMINAIRE MAKE AND MODEL)

- POLE MOUNTED LUMINAIRE

ABBREVIATIONS

3P	THREE PHASE
AB	ABOVE BENCH
AC	AIR CONDITIONING
AFFL	ABOVE FINISH FLOOR LEVEL
BB	BELOW BENCH
BFFL	BELOW FINISH FLOOR LEVEL
BMCS	BUILDING MANAGEMENT AND CONTROL SYSTEM
CL	CLEANERS OUTLET
CM	CEILING MOUNTED
CP	CAPTIVE PLUG
DW	DISHWASHER
EF	EXHAUST FAN
F	FRIDGE
HD	HAND DRYER
HL	HIGH LEVEL
HWU	HOT WATER UNIT
HYD	HYDRAULIC EQUIPMENT
LCD	LCD SCREEN
LL	LOW LEVEL
MDB	MAIN DISTRIBUTION BOARD
MP	METER PANEL
R	RED
SK	SKIRTING DUCT
USB	SOCKET OUTLETS WITH USB, 2.1A
WP	WEATHER PROOF (IP56MIN)
ZIP	ZIP UNIT

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR IS TO VISIT SITE PRIOR TO PRICING TO SATISFY THEMSELVES OF THE SCOPE OF WORKS.
2. DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE.
3. UPON COMPLETION OF THE WORKS, THE CONTRACTOR IS TO SUPPLY COUNCIL WITH A COPY OF THE WORKS AS EXECUTED (WAE) DRAWINGS. IN PROGRESS WAE DRAWINGS MAY ALSO BE REQUESTED FROM TIME TO TIME BY LOCAL COUNCIL FOR CO-ORDINATION PURPOSES.
4. ALL REMOVED & REDUNDANT MATERIALS TO BE APPROPRIATELY DISPOSED OF BY THE CONTRACTOR.
5. WHILE NO RECORDS EXIST TO THE CONTRARY, THE CONTRACTOR SHALL ENSURE APPROPRIATE WORKPLACE SAFETY MEASURES ARE UTILISED IN REGARDS TO WORKING WITH ASBESTOS AND/OR ASBESTOS CONTAINING MATERIALS.
6. ALL WORK IS TO BE COMPLETED IN A PROFESSIONAL AND TRADESMAN LIKE QUALITY.
7. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT REVISIONS OF THE BCA /NCC, AS/NZS 3000. AS/ACIF S009, NSW SERVICE AND INSTALLATION RULES, AUSTRALIAN STANDARDS.
8. EXISTING SERVICES SHOWN IN THIS DRAWING PACKAGE HAVE BEEN PLOTTED FROM THE SUPPLIED SURVEY DATA. THE CONTRACTOR SHALL UNDERTAKE A "DIAL BEFORE YOU DIG" SEARCH FOR EXISTING IN-GROUND SERVICES NO MORE THAN 20 BUSINESS DAYS PRIOR TO EXCAVATION ON SITE. ANY DAMAGE TO EXISTING IN-GROUND SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
9. THE DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
10. THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCED BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR www.1100.com.au
11. THE CONTRACTOR TO DISCUSS WITH COUNCIL'S MAINTENANCE CONTRACTOR BEFORE INSTALLATION.
12. ALL LV CONDUITS SHALL BE HDUPVC ORANGE CONDUITS.

TRENCHING & CABLING
STREET NAME (13mm)
ASSET LABEL (13mm)
COUNCIL LOGO (10mm)
AND CONTACT NUMBER (5mm)

1. 50mm DIAMETER CONDUITS INCLUDING A SPARE CONDUIT SHALL BE INSTALLED.
2. ADDITIONAL CONDUIT SHALL ALSO BE PROVIDED FOR FUTURE COMMUNICATION CABLING.
3. THE CONDUITS SHALL EXTEND TO THE LIMITS OF THE WORKS OR BOUNDARIES OF THE DEVELOPMENT SITE.
4. THE CONDUITS SHALL BE CAPPED FOR FUTURE EXPANSION. THIS WILL ALSO MINIMISE THE NEED TO EXCAVATE THE NEWLY LAID FOOTPATHS ADJACENT TO THE DEVELOPMENT SITE.
5. ELECTRICAL CONTRACTOR SHALL SAW CUT & EXCAVATE THE EXISTING SURFACE TO INSTALL NEW POLE LUMINAIRES. REINSTATE TRENCH WITH APPROPRIATE BACK FILL & COMPACTION, INCLUDING FINISHING OF TRENCH WITH COLD MIX ASPHALT OR TO MATCH WITH EXISTING FINISH. ALLOW FOR SLIGHT OVER FILL TO AVOID SAGGING, ALLOW FOR THESE WORKS TO BE UNDERTAKEN TO AVOID DISRUPTION DURING NORMAL WORKING DAYS/HOURS.
6. CONTRACTOR SHALL CO-ORDINATE WITH COUNCIL THE TRENCH ALLOCATION FOR THE NEW SMART POLES.
7. STREET LIGHT MAINS TO HAVE 500mm COVER IN FOOTWAY, 750mm IN ROADWAY.
8. CONTRACTOR TO LIAISE WITH COUNCIL AND AUTHORITIES ON THE UNDERGROUNDING PLACEMENT OF ELECTRICAL CONDUIT.
9. ALL CONDUITS MUST COMPLY WITH RELEVANT SECTIONS OF AS/NZS 2053 AND COUNCIL REQUIREMENT.
10. ALL THE CABLE LAYING TO BE RECORDED IN COMPLIANCE WITH AS/NZS 3000.
11. RADIUS OF BEND OF CABLE TO COMPLY WITH CABLE MANUFACTURE AND COUNCIL REQUIREMENTS.
12. IF ANY EXCAVATION OR U/G WORKS ARE TO BE DONE ALL SURFACES MUST RESTORED TO ORIGINAL STATE UPON COMPLETION OF THE PROJECT.
13. LOCATION OF CONDUITS ON FOOTPATH IS AS PER COUNCIL REQUIREMENT.
14. CONTRACTOR TO LOCATE COMMS CONDUITS AS PER AUSTRALIAN STANDARD AND COUNCIL'S REQUIREMENT.

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AECOM

CONSULTANT

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www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JA	GT	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	17.05.23	ISSUED FOR CONSTRUCTION
1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

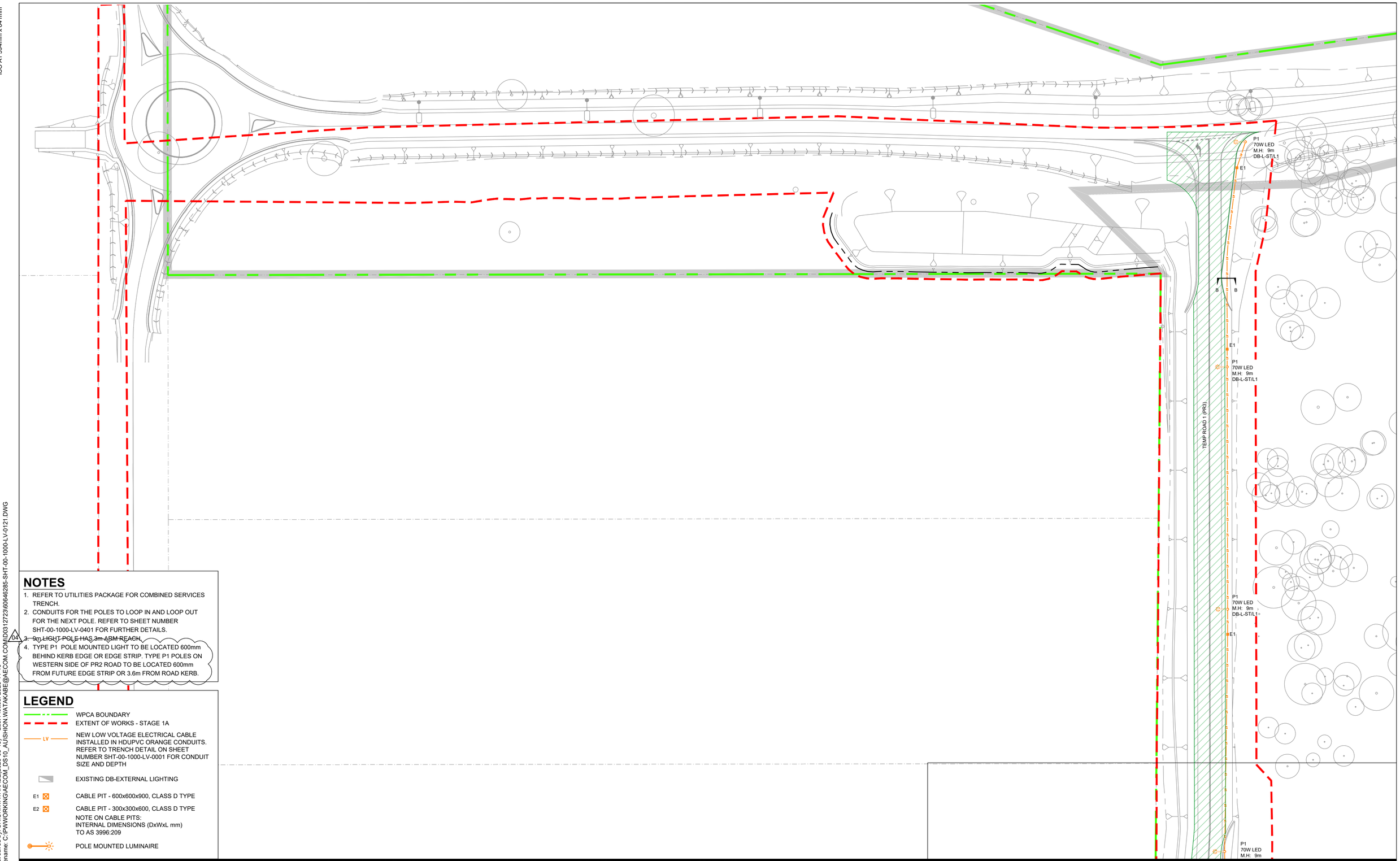
SHEET TITLE

STREET LIGHTING
GENERAL NOTES AND LEGEND

SHEET NUMBER

60646285-SHT-00-1000-LV-0001

ISO A1 594mm x 841mm



NOTES

1. REFER TO UTILITIES PACKAGE FOR COMBINED SERVICES TRENCH.
2. CONDUITS FOR THE POLES TO LOOP IN AND LOOP OUT FOR THE NEXT POLE. REFER TO SHEET NUMBER SHT-00-1000-LV-0401 FOR FURTHER DETAILS.
3. ~~9m LIGHT POLE HAS 3m ARM REACH.~~ 04
4. TYPE P1 POLE MOUNTED LIGHT TO BE LOCATED 600mm BEHIND KERB EDGE OR EDGE STRIP. TYPE P1 POLES ON WESTERN SIDE OF PR2 ROAD TO BE LOCATED 600mm FROM FUTURE EDGE STRIP OR 3.6m FROM ROAD KERB.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- LV — NEW LOW VOLTAGE ELECTRICAL CABLE INSTALLED IN HDUPVC ORANGE CONDUITS. REFER TO TRENCH DETAIL ON SHEET NUMBER SHT-00-1000-LV-0001 FOR CONDUIT SIZE AND DEPTH
- EXISTING DB-EXTERNAL LIGHTING
- E1 CABLE PIT - 600x600x900, CLASS D TYPE
- E2 CABLE PIT - 300x300x600, CLASS D TYPE
  NOTE ON CABLE PITS:
  INTERNAL DIMENSIONS (DxWxL mm)
  TO AS 3996:209
- POLE MOUNTED LUMINAIRE

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CONSULTANT

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PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	JA	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

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4	15.08.23	ISSUED FOR CONSTRUCTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	17.05.23	ISSUED FOR CONSTRUCTION
1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

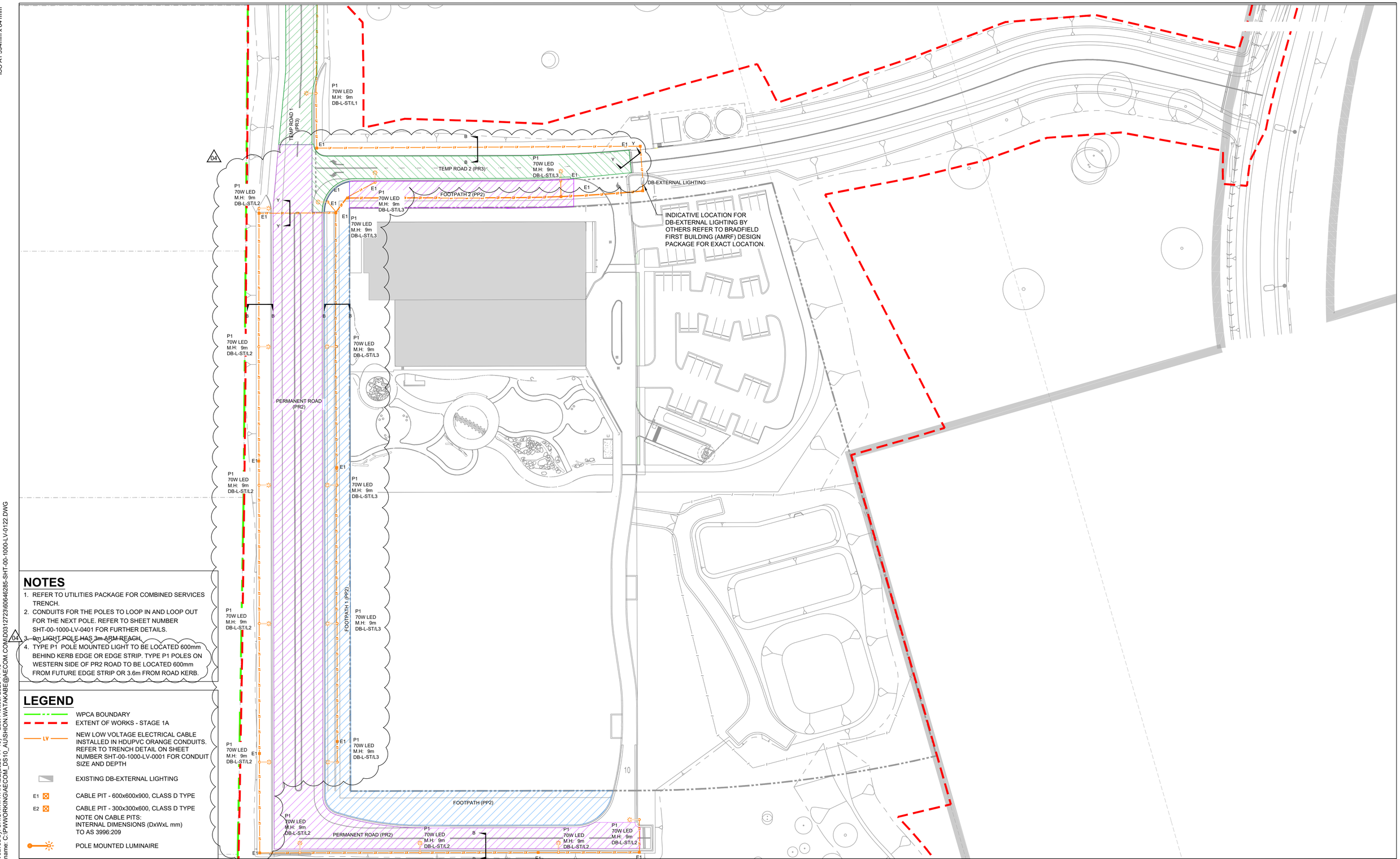
SHEET TITLE

STREET LIGHTING
SITE PLAN SHEET 01

SHEET NUMBER

60646285-SHT-00-1000-LV-0121

ISO A1 594mm x 841mm



NOTES

1. REFER TO UTILITIES PACKAGE FOR COMBINED SERVICES TRENCH.
2. CONDUITS FOR THE POLES TO LOOP IN AND LOOP OUT FOR THE NEXT POLE. REFER TO SHEET NUMBER SHT-00-1000-LV-0401 FOR FURTHER DETAILS.
3. 9m LIGHT POLE HAS 3m ARM REACH.
4. TYPE P1 POLE MOUNTED LIGHT TO BE LOCATED 600mm BEHIND KERB EDGE OR EDGE STRIP. TYPE P1 POLES ON WESTERN SIDE OF PR2 ROAD TO BE LOCATED 600mm FROM FUTURE EDGE STRIP OR 3.6m FROM ROAD KERB.

LEGEND

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- LV — NEW LOW VOLTAGE ELECTRICAL CABLE INSTALLED IN HDUPVC ORANGE CONDUITS. REFER TO TRENCH DETAIL ON SHEET NUMBER SHT-00-1000-LV-0001 FOR CONDUIT SIZE AND DEPTH
- EXISTING DB-EXTERNAL LIGHTING
- E1 — CABLE PIT - 600x600x900, CLASS D TYPE
- E2 — CABLE PIT - 300x300x600, CLASS D TYPE
  NOTE ON CABLE PITS:
  INTERNAL DIMENSIONS (DxWxL mm)
  TO AS 3996:209
- POLE MOUNTED LUMINAIRE

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PROJECT

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CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

KEY PLAN

SCALE BAR

0 12.5 25 m
1:500

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

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DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

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4	15.08.23	ISSUED FOR CONSTRUCTION
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1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STREET LIGHTING
SITE PLAN SHEET 02

SHEET NUMBER

60646285-SHT-00-1000-LV-0122

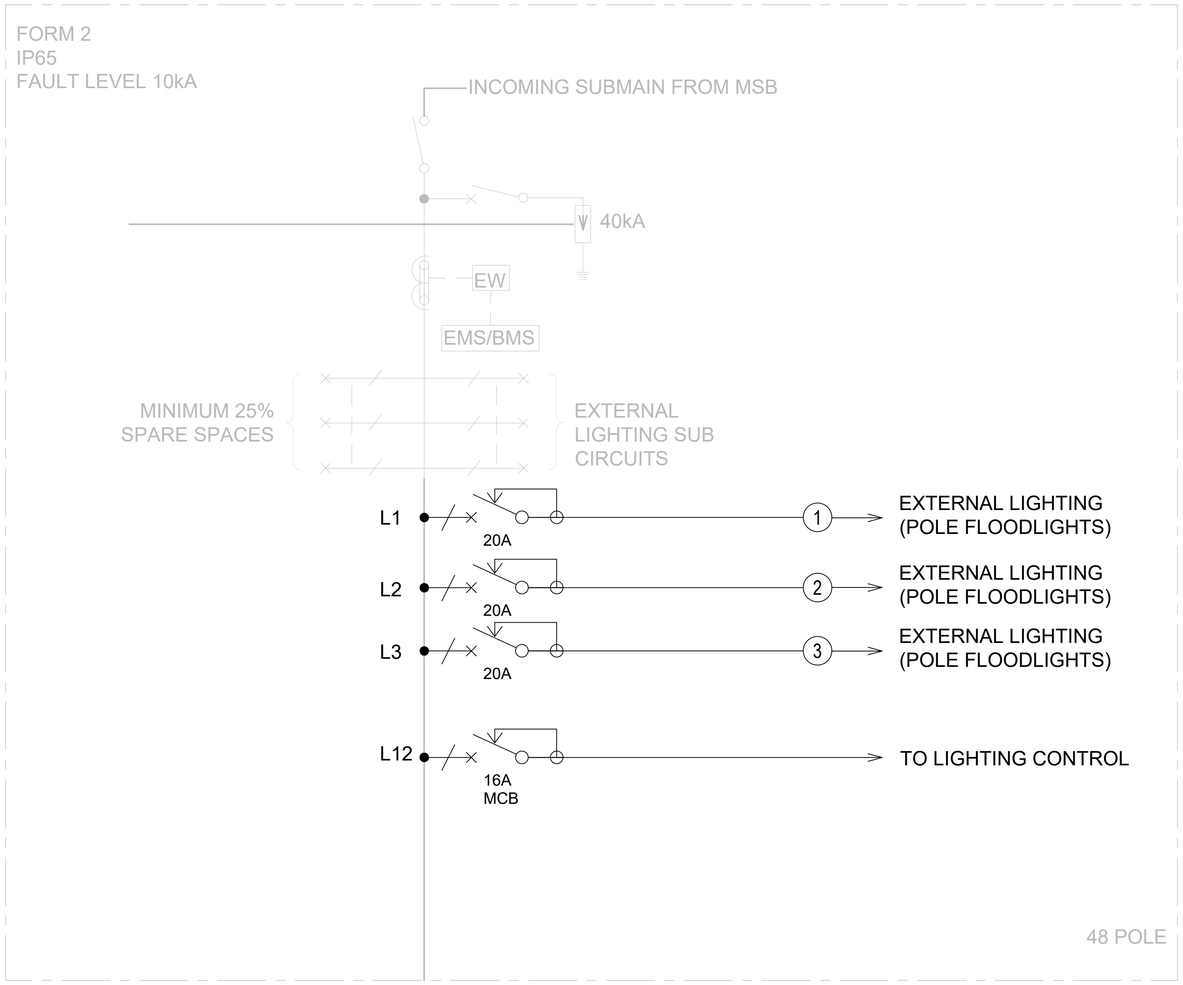
ISO A1 594mm x 841mm

SINGLE LINE DIAGRAM LEGEND

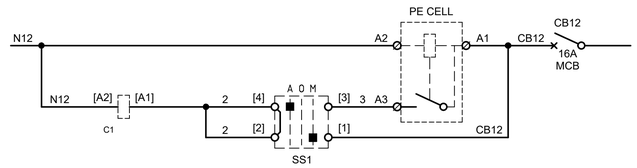
- ISOLATOR / SWITCH
- CIRCUIT BREAKER
- RCD CIRCUIT BREAKER
- SINGLE PHASE
- THREE PHASE

NOTE:

REFER TO BRADFIELD FIRST BUILDING (AMRF) DESIGN PACKAGE BY OTHERS FOR MORE DETAILS ON DB-EXTERNAL SCHEMATIC



DB- EXTERNAL LIGHTING SCHEMATIC (EXISTING)



PE CELL LIGHTING CONTROL SCHEMATIC DIAGRAM

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PROJECT

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SCALE BAR

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☐ YES

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FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STREET LIGHTING
SCHEMATIC

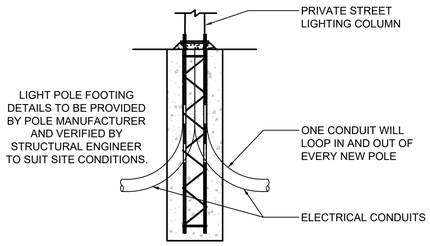
SHEET NUMBER

60646285-SHT-00-1000-LV-0301

ISO A1 594mm x 841mm

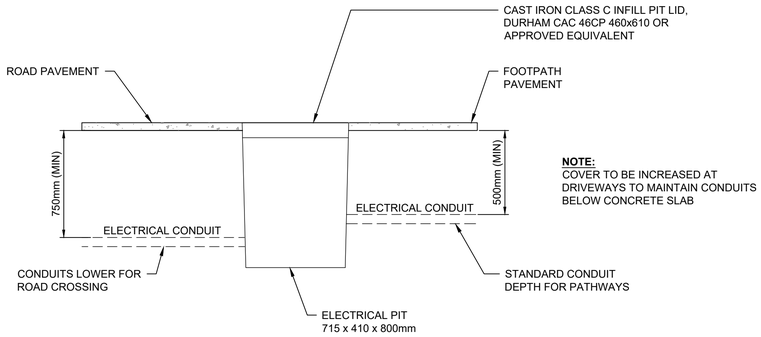
NOTES

1. PROPOSED LIGHTING COLUMN FOUNDATIONS TO BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. FOOTING DETAIL IS INDICATIVE ONLY. FINAL FOOTING TO BE DESIGNED BY STRUCTURAL ENGINEER.



TYPICAL FOOTING SECTION

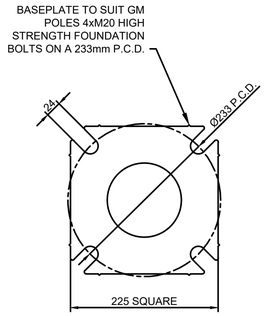
N.T.S.



NOTE:
COVER TO BE INCREASED AT DRIVEWAYS TO MAINTAIN CONDUITS BELOW CONCRETE SLAB

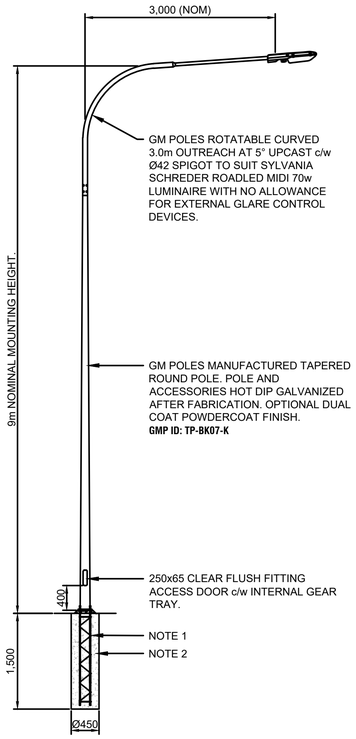
STREET LIGHTING PIT

N.T.S.



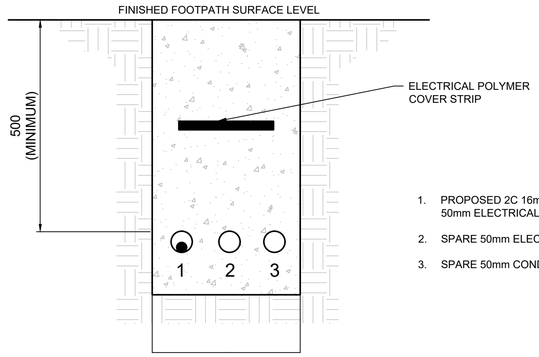
BASEPLATE DETAIL

N.T.S.



LIGHT POLE DETAIL 1

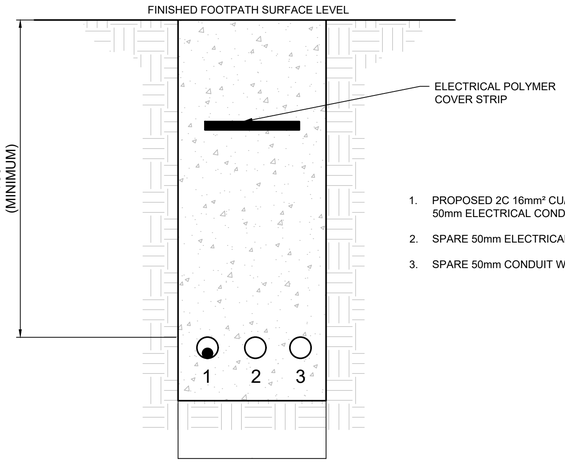
N.T.S.



1. PROPOSED 2C 16mm² CU/PVC/PVC & 6mm² CU EARTH CABLES IN 50mm ELECTRICAL CONDUIT
2. SPARE 50mm ELECTRICAL CONDUIT WITH DRAW WIRE
3. SPARE 50mm CONDUIT WITH DRAW WIRE

SECTION B-B

N.T.S.

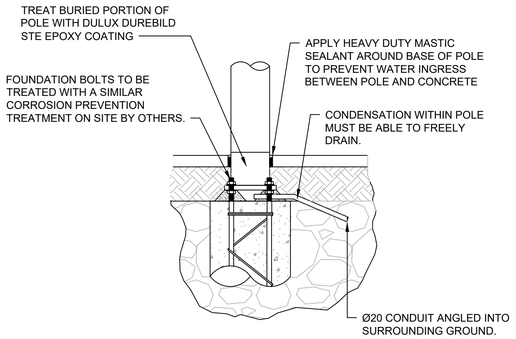


1. PROPOSED 2C 16mm² CU/PVC/PVC & 6mm² CU EARTH CABLES IN 50mm ELECTRICAL CONDUIT
2. SPARE 50mm ELECTRICAL CONDUIT WITH DRAW WIRE
3. SPARE 50mm CONDUIT WITH DRAW WIRE

SECTION Y-Y

N.T.S.

03



DRAIN REQUIREMENTS

SCALE NTS

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CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

PROJECT

AEROTROPOLIS
CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?
☐ NO
☐ YES

PROJECT MANAGEMENT INITIALS

JD	JA	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

I/R	DATE	DESCRIPTION
4	15.08.23	ISSUED FOR CONSTRUCTION
3	22.05.23	ISSUED FOR CONSTRUCTION
2	17.05.23	ISSUED FOR CONSTRUCTION
1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STREET LIGHTING
TYPICAL DETAILS

SHEET NUMBER

60646285-SHT-00-1000-LV-0401

ISO A1 594mm x 841mm

NOTE:

1. CONTRACTOR TO MATCH MANUFACTURER / MAKE OF UPSTREAM BREAKERS AND GUARANTEE GRADING.

Circuit Breaker Details				
Upstream	Downstream	Device description	Voltage (V)	Breaking capacity (kA)
DB-EXTERNAL LIGHTING	EXTERNAL LIGHTING L1	ACTI 9 SYSTEM iC60N RCBO TYPE A CURVE TRIP CURVE C - 20A	230	6 kA
DB-EXTERNAL LIGHTING	EXTERNAL LIGHTING L2	ACTI 9 SYSTEM iC60N RCBO TYPE A CURVE TRIP CURVE C - 20A	230	6kA
DB-EXTERNAL LIGHTING	EXTERNAL LIGHTING L3	ACTI 9 SYSTEM iC60N RCBO TYPE A CURVE TRIP CURVE C - 20A	230	6kA

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SCALE BAR

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- ☐ NO
- ☐ YES

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DESIGNER	CHECKED	APPROVED

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DATUM	AHD	SURVEY	GDA94/MGA56

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1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STREET LIGHTING
CIRCUIT BREAKER SCHEDULE

SHEET NUMBER

60646285-SHT-00-1000-LV-0601

ISO A1 594mm x 841mm

BRADFIELD FIRST STREET LIGHTING CABLE SCHEDULE

Cable Reference No.	From	To	Cores	Cable Size (mm^2)	Conductor (Active)	Insulation	Sheath	Neutral Size (mm^2)	Earth Size (mm^2)	Conductor (Earth)
1	DB- EXTERNAL LIGHTING	External Lighting Circuit L1	Circ, 2C&E	16	Cu	PVC	PVC	16	6	Cu
2	DB- EXTERNAL LIGHTING	External Lighting Circuit L2	Circ, 2C&E	16	Cu	PVC	PVC	16	6	Cu
3	DB- EXTERNAL LIGHTING	External Lighting Circuit L3	Circ, 2C&E	16	Cu	PVC	PVC	16	6	Cu

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PROJECT

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CORE PRECINCT
BRINGELLY

CLIENT

NSW GOVERNMENT | Western Parkland City Authority

SCALE BAR

SAFETY IN DESIGN INFORMATION

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- ☐ NO
- ☐ YES

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DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

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1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STREET LIGHTING
CABLE SCHEDULE

SHEET NUMBER

60646285-SHT-00-1000-LV-0602

CODE	DESCRIPTION	MOUNTING	OUTREACH ARM	LAMPS			MANUFACTURER PART NUMBER	FINISH COLOUR	EQUIPMENT SIZE	IMAGE
				NUMBER	WATTAGE	TYPE				
P1	9m Single pole mounted light, with 7 pin NEMA socket. 4000K colour temperature, IP66, IK07. Luminaire to be supplied with 9m circular tapered pole and curved 3m outreach arm complete with spigot to suit luminaire attachment, ragbolt assembly and all accessories to enable complete installation. Pole colour to match luminaire colour.	9m	3m	1	70W	LED	Sylvania Schreder ROADLED MIDI 70w Aeroscreen Visor - PM99G15L70	MATT SILVER	786mm x 346mm x 159mm (L x W x H)	

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- ☐ YES

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JA	GT	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AHD	SURVEY	GDA94/MGA56

ISSUE/REVISION

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3	22.05.23	ISSUED FOR CONSTRUCTION
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1	14.04.23	ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT NUMBER

60646285

SHEET TITLE

STREET LIGHTING
LUMINAIRE SCHEDULE

SHEET NUMBER

60646285-SHT-00-1000-LV-0603

ISO A1 594mm x 841mm

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