



Kindira, Monarch Glen, Engineering Services Report, Precincts 103 & 104 (ROL05)

Prepared for Monarch Glen No 1 Pty Ltd

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1 Executive Summary

This Engineering Services Report (ESR) has been prepared in support of a Reconfiguration of a Lot (ROL) development application for a 670-lot residential subdivision within Precincts 103 and 104 of the Kindira, Monarch Glen development. The site forms part of the broader Monarch Glen master planned community, which is anticipated to ultimately accommodate approximately 7,339 residential lots.

The purpose of this report is to demonstrate that the proposed subdivision layout and associated engineering infrastructure can be appropriately serviced and is generally consistent with the endorsed Infrastructure Master Plans (IMPs), thereby supporting the continued development and assessment of precincts 103 and 104.

- Earthworks (Reference 16547 C R004 Rev 03)
- Sewer (Reference 16457 C R 002 Rev 04)
- Water (Reference 16457 C R001 Rev 03)

Based on the site investigation completed by Soil Surveys in June 2016 (BROADSCALE Geotechnical Investigation – Project No. 166-18467), shallow rock is encountered across the site at depths ranging from approximately 0.25 m to 1.95 m. Geophysical assessments indicate that the rock is expected to be rippable using a D11R dozer. Rock blasting, crushing and processing may be required in areas of hard rock and managed on site accordingly. The site earthworks strategy has been developed to respond to the sites natural topography and implements road grading and lot benching with retaining walls to respond to the site characteristics. Refer to Earthworks plans in **Appendix A**.

A proposed trunk sewerage line travels past the adjoining Precinct 106 (DCOP reference GM029, GM030, GM031 & GM032). Refer to the Sewer Trunk and Reticulations plans in **Appendix A**. The sewer reticulation servicing the proposed lots will ultimately connect into the trunk main that discharges to the northeast of the site.

An extension of a trunk watermain southeast of the site in Precincts 101 and 102 will be extended along the future bridge connection to Precincts 103 and 104 (DCOP reference WM047). Individual lots will be serviced by reticulation watermain that will connect to this trunk extension. Refer to the Water Reticulations plans in **Appendix A**.

The stormwater management strategy relies on end of line bio-retention and detention basins that discharge to the Sandy Creek waterway. Stormwater treatment devices have been modelled and sized to suit the proposed development requirements.

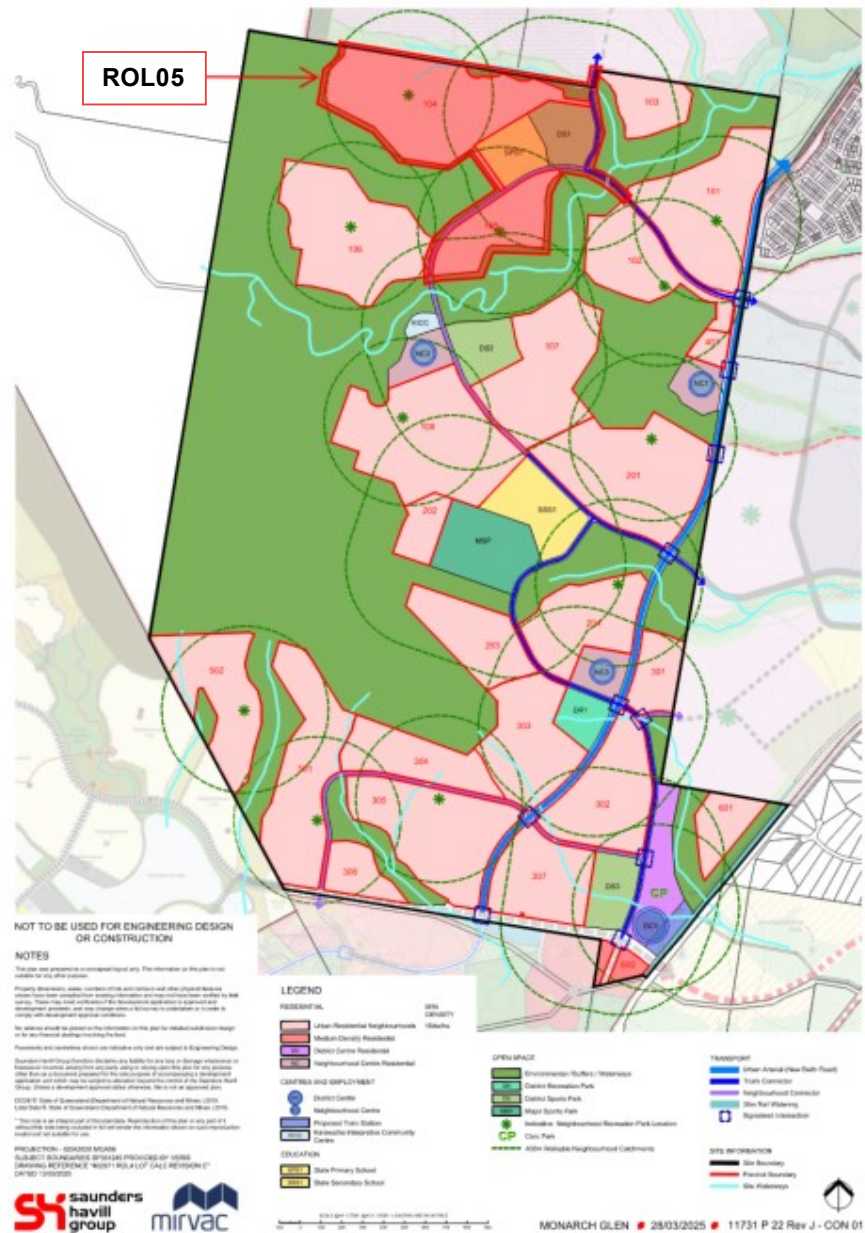
This report is accompanied with the relevant code responses, concept engineering drawings and supporting documentation to demonstrate that the development can be adequately serviced in accordance with EDQ's standards and guidelines including other authority standards where relevant including but not limited to Logan City Council standard drawings, WSAA & SEQ Code, Australian Standards, Austroads, Queensland Streets etc.



Monarch Glen No 1 Pty Limited has engaged Stantec to prepare this civil Engineering Services Report in support of a development application for Kindira, Monarch Glen, Precinct 103 and Precinct 104 (ROL05).

Kindira, Monarch Glen is located within the Flagstone Priority Development Area, within the City of Logan local government authority area, with these Precincts forming part of a larger planned community project consisting of approximately 7,339 residential lots.

Precinct 103 and Precinct 104 are located near the northern boundary of the approved Monarch Glen master planned development, shown in Figure 1.



ROL05 consists of 69.288 hectares of total land area across Precinct 103 and Precinct 104, developed into 670 residential allotments, Linear Parks and pedestrian linkages, water sensitive urban design elements, a Neighbourhood Recreation Park, a District Sports Park, an adjoining State Primary School, and a utility lot.

The proposed layout of ROL05 is shown in Figure 2, Refer to Saunders Havil POD plans reference 11731 P 69 Rev G (ROL5 Application Package) for more details.



Figure 2: Concept Plan ROL05

This Engineering Services Report addresses the following civil infrastructure for overall context, noting other consultants have contributed to the development of specific reports where required:

- Earthworks
- Erosion and Sediment Control
- Roadworks
- Sewerage Reticulation (with reference to Colliers ROL05 Precinct Network Plan)
- Water Supply (with reference to Colliers ROL05 Precinct Network Plan)
- Stormwater Quality and Quantity (with reference to Engeny ROL05 Stormwater Management Plan)
- Utilities (Telecommunication, electricity etc)

3 Earthworks

Significant bulk earthworks are required across Precinct 103 and Precinct 104 to establish a suitable development profile that aligns with the objectives of the Context plan and endorsed IMP.

The bulk earthworks strategy for ROL05 Precincts 103 and 104 has been developed to respond to the existing site conditions, including moderately undulating topography and uncleared land containing heavily vegetation, while achieving the approved land use outcomes and integrating with the surrounding road and drainage networks.

Earthworks will be undertaken to generally achieve a cut-to-fill outcome across the precincts where practicable, noting that some localised material import, export, and redistribution may be required to address topographic variations, drainage constraints, and infrastructure interfaces. The earthworks strategy is intended to:

- Establish suitable development levels for lots and roads
- Maintain and manage appropriate overland flow conveyance
- Protect downstream drainage outcomes
- Coordinate with future road, drainage, and services infrastructure
- Allowing for the staged delivery of erosion and sediment control facilities within the site in order to manage the impacts of the bulk earthworks; and
- Optimise the use of developable area through efficient design.

Bulk earthworks will be refined during detailed design to confirm finished levels, batter slopes, retaining wall requirements and construction staging, informed by detailed survey, geotechnical investigations and authority approval conditions.

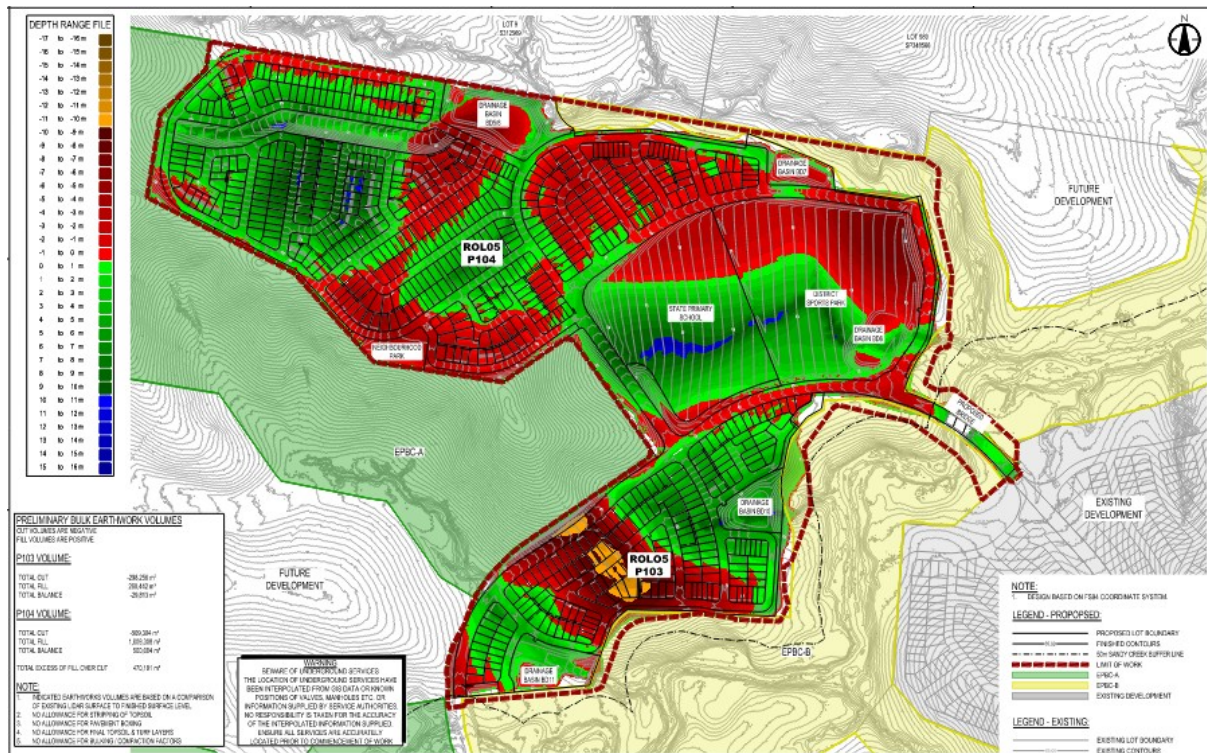


Figure 3: Cut/Fill Plan

Topsoil is to be stripped from most of the development area and stockpiled on site to enable earthworks to be completed. Wherever possible, stockpiles shall be no more than 1.5m high with maximum 1:2 batter slopes and once stockpiling is completed, covered with a green cover crop to avoid erosion, desiccation, and solarisation.

Proposed retaining wall heights have been minimised as much as possible with isolated locations requiring higher walls to address the areas of steeper topography. The site has significant natural slopes of up to 12% through the development area and largely grades from Northwest to Southeast broadly across the precinct.

The site is surrounded by a ridgeline with protected vegetation to the south, and fronting waterway corridors to the west and the north. The proposed earthworks grading enables the site to generally grade to interface with the protected vegetation and waterways at the edges of the development and enable the site to grade towards the northern waterway corridor to facilitate the stormwater management strategy.

Generally, lots will be provided as flat benching pads with proposed retaining wall heights having been minimised as much as possible. Where retaining walls are required to address the topography, these will be designed at a maximum 3.0m height to the rear, and 2m height to the side boundaries. The bulk earthworks and retaining walls will be formalised through the detailed design at the EDQ Compliance Assessment and Pre-Construction Package submissions phase as necessary.

Upon respreading of topsoil access to site by vehicles should be restricted to nominated roadways and parking areas where possible to minimise compaction, and upon completion of works compacted topsoil shall be ripped.

The proposed earthworks drawings are included in **Appendix A** and demonstrates how the topography is appropriately addressed through sound engineering practises. For areas of greater cut, slope stability will be satisfied through the provision of a geotechnical assessment by a suitably qualified professional.

3.1 Erosion and Sediment Control

A high-level concept erosion and sediment control (ESC) strategy has been developed with reference to the International Erosion Control Association (IECA) Australasia *'Best Practice Erosion & Sediment Control (November 2008)'* guidelines, to manage construction-phase runoff in accordance with relevant authority guidelines.

The ESC strategy includes:

- Separation of clean and dirty water flows. Where practical installation of 'clean water' diversion drains / bunds along the upslope extents of the construction areas to divert the contributing upslope runoff around the disturbed areas.
- Perimeter sediment controls to be installed prior to the commencement of works and be maintained throughout the duration of the works onsite. Where surface disturbance has occurred, the downslope boundary sediment controls will remain in place until adequate stabilisation of the disturbed surfaces has been achieved.
- Establishment of sediment basins and other sediment control devices downslope of active earthworks areas.
- Progressive staging of earthworks and site stabilisation to limit disturbed catchment areas.
- Stabilised access / shake down areas provided at the construction entry / exit locations to remove any loose materials from vehicles prior to departure from the site.
- Any stockpiles are to be positioned away from overland flows paths or other areas where concentrated flow may cause sediment transportation. Stockpiles to be located upslope of an appropriate sediment control device, such as sediment fencing or flow control berm, with a diversion bund to be positioned upslope to minimise overland flows into the stockpile areas.
- All erosion, sediment and drainage control measures to be monitored and maintained in an effective operational condition for the duration of the works.

Sediment basins are proposed to be located so they can be retained and adapted for subsequent development stages where possible. The concept ESC strategy and indicative basin locations are shown in **Appendix A**.

The earthworks and civil works undertaken by the contractor will implement a site-based management plan to incorporate and achieve compliance with the erosion and sediment control strategy and conditions of the approval at the time of construction. This will involve the preparation of a site-specific erosion and sediment control plan, certified by an RPEQ or CPESC.



3.2 EPBC – A interface

The EPBC-A interface in the ROL05 cutface treatment has been developed as a site-specific engineering response to facilitate steepened earthworks while maintaining stability, durability, and compliance with Logan City Council (LCC) expectations. Refer to Figure 5 below for acceptance from LCC for the cutface interface with the EPBC-A. The typical cross sections illustrates a controlled transition from the road reserve to the adjoining cutface, incorporating verge and swale drainage elements, a vegetated 1V:3H batter where feasible, and a steepened cutface interface treated with coloured shotcrete to provide structural protection and improved visual integration.

Drainage is managed through swales at both the crest and toe to intercept and convey runoff, reducing erosion and hydrostatic pressures, while crest-mounted fencing and provision for maintenance access address safety and operational considerations.

The interface with EPBC areas has also been coordinated to respond to environmental constraints, with landscape planting within verge and upper batter zones assisting in visual screening. Importantly, this cutface treatment has been accepted by Council following targeted consultation, acknowledging that it satisfactorily addresses visual and maintenance concerns; however, this acceptance is specific to the demonstrated conditions within ROL05 and is not intended to establish a precedent for widespread application across the development.

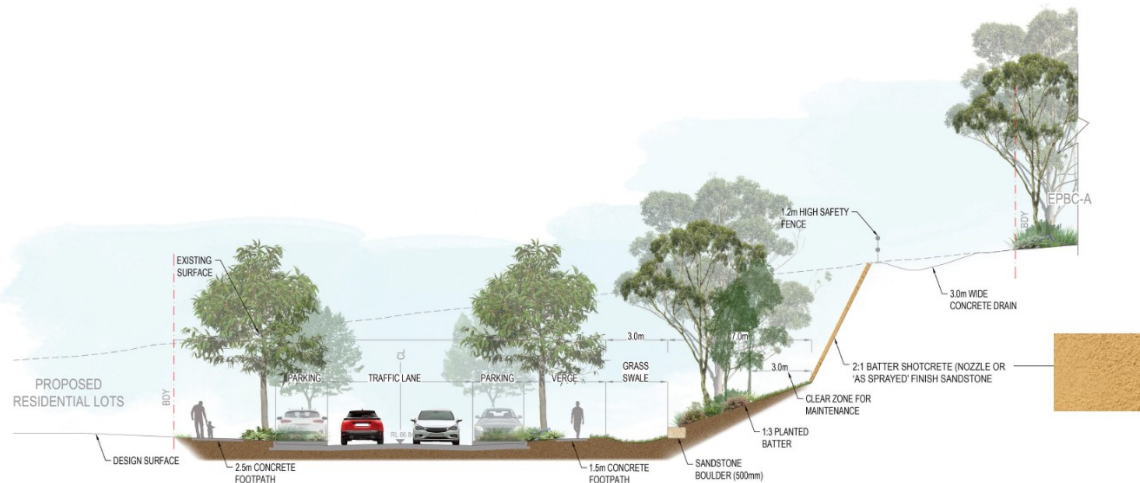


Figure 4: Cut-face Section Concept

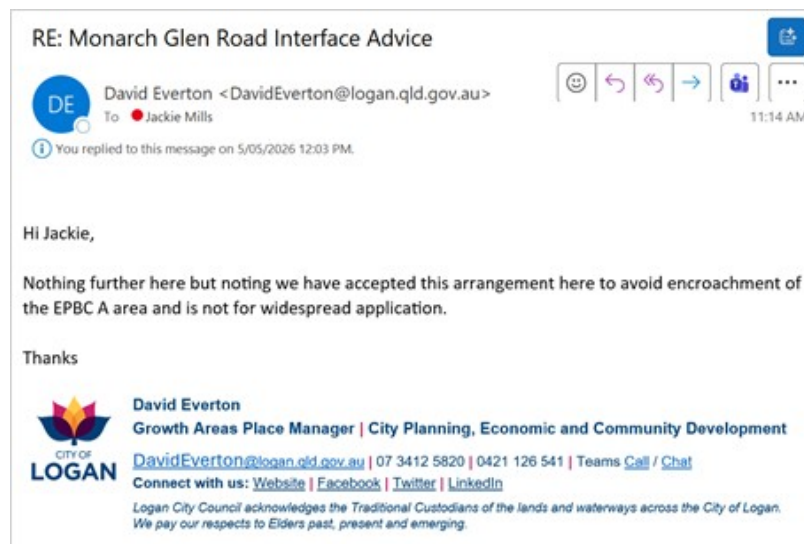


Figure 5: Logan City Council's Cut-face acceptance

4 Roadworks and Movement Network

Access to Precincts 103 and 104 will be provided via the approved arterial and neighbourhood road network forming part of the wider Kindira, Monarch Glen Development. The internal road layout has been designed to support both the proposed stage of development and the ultimate road hierarchy.

The movement network has been designed to accommodate:

- Residential traffic demand
- Service and waste collection vehicles
- Public transport operations
- Pedestrian and cyclist movements

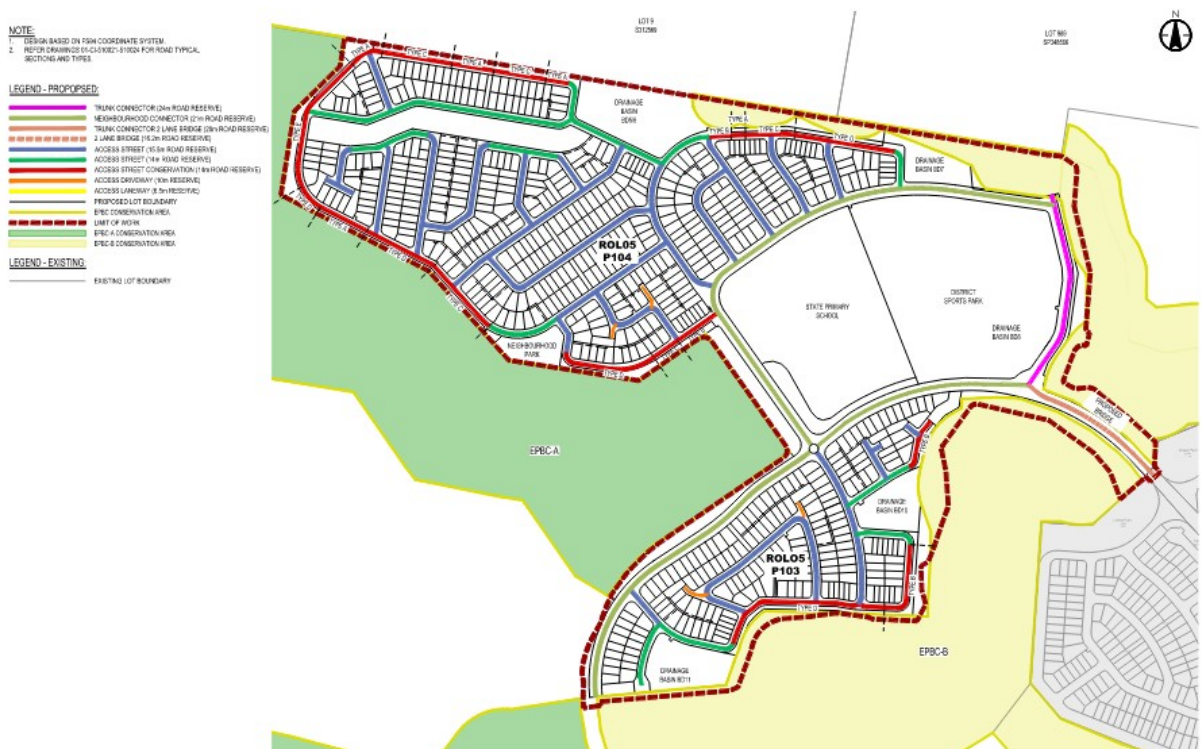


Figure 6: Road network plan

4.1 Road Hierarchy Concept Plan

A road hierarchy concept has been developed in accordance with Economic Development Queensland (EDQ) Street, Movement IMP, Network Guideline No. 6 and relevant local authority standards.

The hierarchy includes:

- Sub-arterial and neighbourhood connector roads
- Neighbourhood access streets
- Laneways and shared access streets where appropriate

The typical road cross sections corresponding with each of the street types nominated above are included within **Appendix A** of this report.

4.2 Staging of Sub-Arterial Road Construction and Site Access

Road construction and site access for Precincts 103 and 104 will occur in a staged manner consistent with overall development sequencing at Kindira, Monarch Glen.

4.3 Sandy Creek Bridge Crossing

The extent of development within this application necessitates a roadway connection between Precincts 101 and 102 and Precincts 103 and 104 via a bridge crossing of Sandy Creek, known as the RO56 Bridge. The crossing is proposed to be delivered through a multi-span bridge (approximately 51 m) with piers located outside the low-flow channel to maintain hydraulic performance and fish passage. The bridge superstructure comprises a prestressed concrete girder system with a composite concrete deck supported on cast in place concrete piles, with the design informed by DTMR Bridge Design Criteria for Bridges and Other Structures and the Bridge Scour Manual to address hydraulic capacity, afflux, and scour protection for design flood events. Scour protection extends below the 1% AEP flood level and integrates with the natural creek profile, while the bridge alignment and approaches have been optimised to minimise impacts to EPBC areas and reduce earthworks. Overall, the design provides a compliant, durable, and functionally critical connection within the Kindira, Monarch Glen development.

Refer to **Appendix C** for the proposed Sandy Creek Bridge Crossing plan and Drawings.

4.4 Commercial Vehicle Access

4.4.1 Design Vehicle

The design vehicles for the proposed development have been determined based on the vehicles proposed to be utilising the internal roads. In accordance with AS2890.2: Off-street Commercial Vehicle Facilities, the following service vehicle requirements are specified for the proposed development:

- Trunk and Neighbourhood connectors: Articulated Vehicle (AV) and Refuse Collection Vehicle (RCV)
- Internal roads: Heavy Rigid Vehicle (HRV) and Refuse Collection Vehicle (RCV)

On the basis of the above, the largest service vehicle required to be accommodated by the proposed development is an AV, with an HRV for servicing within the PDA.

4.4.2 Servicing Arrangements

Stantec has undertaken a swept path assessment to demonstrate the suitability of the internal road layout and access roundabouts to safely accommodate a side loading collection vehicle (Garbage and / or recycle truck) and a front-loading collection vehicle. The design vehicle specifications adopted have been included in Table 4-1 below.

Table 4-1: Waste Vehicle Specifications as per Table 2.6.1 and 2.6.2 of Logan Planning Scheme 2015.

Table 2.6.1 - Wheeled bin refuse collection vehicle - Refuse (140L, 240L & 360L wheeled bins)

Drive	6 X 4
Wheel base length	4.88m
Refuse load capacity	27m ³
Vehicle length	8.937m
Vehicle tare and gross mass	13.16t to 23t
Vehicle turning circle radius	9.25m wall to wall 8.55m kerb to kerb
Vehicle travel height	3.848m
Vehicle width	2.8m including mirrors (minimum 300mm clearance to be provided from obstructions)
Vehicle working height	4.3m (minimum 300mm clearance to be provided from obstructions)

Table 2.6.2 - Wheeled bin refuse collection vehicle - Recycling (140L, 240L & 360L wheeled bins)

Drive	6 X 4
Wheel base length	5.330m
Recyclables load capacity	35m ³
Vehicle length	10.345m
Vehicle tare and gross mass	14.113t to 23t
Vehicle turning circle radius	10.329m wall to wall 9.615m kerb to kerb
Vehicle travel height	3.848m
Vehicle width	2.8m including mirrors (minimum 300mm clearance to be provided from obstructions)
Vehicle working height	4.3m (minimum 300mm clearance to be provided from obstructions)



The swept paths can be found in **Appendix A** on drawing 304702212-01-CI-510040.

The swept path assessment undertaken on the internal layout indicates that the streets generally allow safe access for a side loading collection vehicle and a front-loading collection vehicle, as illustrated on drawing included within **Appendix A**. Slow points within access streets have been tested for design vehicle compliance and are demonstrated to be serviceable.

5 Lot Compliance

The proposed allotments within Precincts 103 and 104 have been configured to generally align with applicable EDQ and Logan City Council development requirements for the Monarch Glen development, having regard to lot size, frontage, vehicular access, lot grading, and the capacity to accommodate compliant building envelopes and conventional servicing connections. The subdivision layout has been developed to achieve a practical and functional outcome across the precincts, with consideration given to the interface between proposed road levels, finished lot levels, retaining requirements, and the intended built form outcome. On this basis, the majority of lots are capable of supporting compliant housing outcomes consistent with the Kindira estate design objectives, subject to detailed dwelling design and normal siting controls at the building approval stage.

Notwithstanding the above, the existing topography across the site presents localised constraints to lot design, particularly where roads are required to respond to steeper terrain conditions. In these locations, the road network has been designed with grades up to a maximum of 10%, which in turn creates more constrained lot interface conditions, particularly for corner lots and lots with dual frontage or open space interfaces. Across the 670 proposed lots, 17 lots are anticipated to incorporate road or greenspace interface retaining walls exceeding 2.0m in height. These walls do not exceed 3.0m in height and are therefore consistent with EDQ and Logan City Council development requirements. The walls are expected to occur over limited sections only and will be tapered to follow the longitudinal grade of the adjoining road, thereby reducing the extent of full-height presentation and assisting in achieving a more integrated streetscape outcome. While these conditions represent a departure from the preferred lot interface treatment in some instances, they are a direct function of the existing landform and have been confined to a limited number of lots within the overall development yield.



6 Wastewater Reticulation

The wastewater servicing strategy for ROL05 within the Greater Flagstone PDA is based on a gravity-dominated network that discharges into the existing and planned Monarch Glen sewer system, ultimately conveying flows to the Cedar Grove Wastewater Treatment Plant (WWTP). The plan aligns with the endorsed Monarch Glen Sewer Infrastructure Master Plan (September 2025) and Logan City Council's Desired Standards of Service (DSS).

ROL05 introduces no additional downstream non-compliance, all identified surcharge and velocity exceedances on Leg 1 (to SPS151 wet well) and Leg 2 (SPS151 rising main to SPS152) are consistent with baseline network conditions, not attributable to ROL05.

In some scenarios, ROL05's slightly reduced EP projections produce minor improvements versus the original IDM model..

Refer to Collier's Water & Wastewater Precinct Network Plan (PNP) Kindira, Monarch Gelan P103 & P104 (26-0305-PNP01) for more details.

7 Water Supply

The Kindira Monarch Glen P103 & P104 Water and Wastewater Precinct Network Plan (reference 26-0305-PNP01), prepared by Colliers Engineering & Design, outlines the interim and ultimate potable water servicing strategies for the ROL05 development precincts.

Network modelling identified that staged development of ROL05 can be supported if booster pump duties are progressively increased to accommodate higher elevations and demand as Precincts 103 and 104 are developed from south to north.

The potable water servicing strategy for ROL05 integrates with the broader Flagstone supply network and is consistent with the endorsed Monarch Glen Water Infrastructure Master Plan (September 2025). Initial supply is delivered via the Monarch Glen Water Booster Pump Station, fed from the existing Round Mountain Reservoir, transitioning long-term to the planned Flagstone Reservoirs (commissioned alongside the Wyaralong WTP, expected 2031/32).

8 Stormwater

The proposed ROL05 development areas will be serviced by a typical pit and pipe drainage network. All roads will have kerb and channel to collect and convey runoff into gully inlet pits. Runoff will then be conveyed within the pipe network to the nominated stormwater management basins, before discharging into the Sandy Creek waterway / tributaries and ultimately from the site at the relevant Legal Point of Discharge. Major flows will be conveyed within the roadways towards the nominated detention basins (where applicable). Within Precinct P104, stormwater runoff will ultimately discharge to the north and east of the development precinct, while runoff from Precinct P103 will discharge to the east & south.

A Site Based Stormwater Management Plan (reference BBNE00356_002-REP-001-1, dated 4 June 2026) has been prepared by Engeny to support this ROL application. This report has outlined the stormwater quality and quantity management, flood compliance and waterway stability strategies to be incorporated into the ROL05 development to comply with the applicable masterplan documents.

A summary of the stormwater quality and quantity management outcomes of the Engeny report are outlined in the following sections.

8.1 Stormwater Quality

To ensure alignment with the water quality objectives outlined in the State Planning Policy (DILGP, July 2017), LCC Stormwater Quality and Flow Management Guidelines (LCC, July 2013), and the Logan Planning Scheme (LCC, July 2025, version 9.1), MUSIC modelling has been undertaken for the stormwater treatment measures proposed for the site. This modelling reflects the anticipated change in on-site pollutant load generation associated with the proposed development.



Engeny's report notes that, to support stormwater quality management, several bio-retention basins are proposed within the ROL05 development footprint. These are designed to achieve pollutant load removal efficiencies of 80%, 60%, 45% and 90% for TSS, TP, TN and gross pollutants, respectively, for the development.

Refer to Engeny's Kindira ROL05 Site Based Stormwater Management Plan report for more details.

8.2 Stormwater Quantity

The increase in development density is expected to result in an increase in the runoff generated from the subject site when compared to the existing site conditions. A local WBNM hydrologic model was developed to assess the change in peak flows for the existing and developed condition scenarios for the full range of design rainfall events.

Engeny's report noted that to address the management of stormwater quantity and peak flows at the relevant Legal Point of Discharge, several detention basins are proposed to mitigate the developed condition scenario peak flows back down to the existing condition scenario peak flows for all events from the 63.2% AEP to 1% AEP flood events. It is proposed to incorporate the required detention volumes above the extended detention depths within the nominated bio-retention basins.

Refer to Engeny's Kindira ROL05 Site Based Stormwater Management Plan report for more details.



9 Utilities

Precincts 101 and 102 are to be serviced with electrical and telecommunications infrastructure as the first precinct is developed.

ROL05 proposes to extend these services throughout the development, with provision for service corridors being incorporated within the proposed road reserves and the concept Sandy Creek RO56 bridge design. Pad-Mounted Transformers (PMTs) and Ring Main Unit (RMU) have been strategically located throughout the development to meet the projected power demand and ensure an adequate and reliable electricity supply to all precincts.

Applications and agreements for the delivery of these services will be completed by the development's qualified electrical consultant during the detailed design and pre-construction phases.

10 Conclusion

Based on the investigations and concept design documentation prepared to support this application, the proposed subdivision and associated civil infrastructure for Precincts 103 and 104 are capable of being appropriately serviced and developed in a manner generally consistent with the endorsed Infrastructure Master Plans, relevant authority requirements, and applicable engineering standards.

The report demonstrates that the development can be supported by an integrated civil servicing strategy encompassing bulk earthworks, roadworks and movement networks, R056 bridge access, sewerage reticulation, water supply, stormwater management, and utilities infrastructure, with each element to be further refined through detailed design. The proposed infrastructure response has been developed having regard to the site's topographic constraints, environmental interfaces, servicing corridors and staging requirements, and indicates that practical and compliant engineering outcomes can be achieved across the precincts.

Subject to detailed design resolution, further specialist input where required, and approval through the relevant Operational Works and associated statutory processes, the proposed infrastructure is suitable to support the development and facilitate the orderly delivery of this stage of the broader Kindira, Monarch Glen community.

Accordingly, there are no known engineering or servicing constraints that would preclude the development proceeding as proposed.



Appendices



Appendix A: Precinct 103 & 104 Stantec Engineering Master Plan Sketches





KINDIRA - MONARCH GLEN
LOT 2 ON SP351245
ROL05 P103 & P104

KINDIRA - WYATT ROAD, MONARCH GLEN

Project Number: 304702212

Drawing Number: 01-CI-501000

Revision: 1

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

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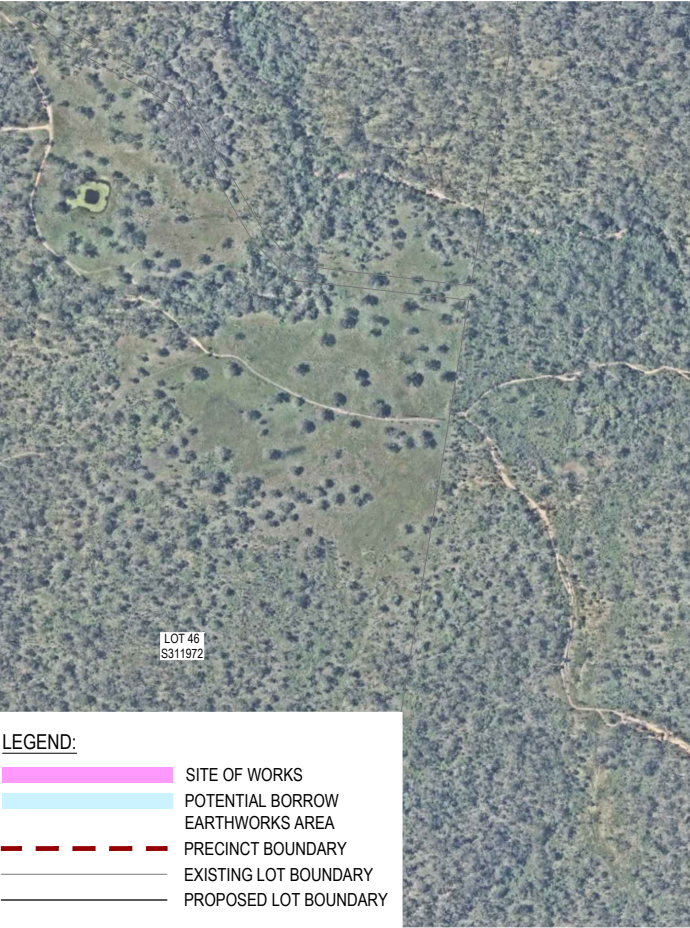
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A

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SCHEDULE OF DRAWINGS	
DRAWING No.	DESCRIPTION
GENERAL	
01-CI-501000	COVER SHEET
01-CI-501001	LOCALITY PLAN AND SCHEDULE OF DRAWINGS
01-CI-501005	STAGING AND KEY PLAN
EROSION AND SEDIMENT CONTROL	
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01-CI-502001	CONCEPT EROSION AND SEDIMENT CONTROL NOTES SHEET 2
01-CI-502002	CONCEPT EROSION AND SEDIMENT CONTROL NOTES SHEET 3
01-CI-502003	CONCEPT EROSION AND SEDIMENT CONTROL NOTES SHEET 4
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01-CI-502006	CONCEPT EROSION AND SEDIMENT CONTROL PLAN PHASE 3
01-CI-502007	CONCEPT EROSION AND SEDIMENT CONTROL PLAN PHASE 4
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01-CI-510012	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 12
01-CI-510013	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 13
01-CI-510014	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 14
01-CI-530015	CONCEPT BIO-RETENTION AND CATCHMENT OVERALL PLAN
01-CI-510020	ROAD HEIRARCHY PLAN
01-CI-510021	ROAD HEIRARCHY TYPICAL SECTIONS SHEET 1
01-CI-510022	ROAD HEIRARCHY TYPICAL SECTIONS SHEET 2
01-CI-510023	ROAD HEIRARCHY TYPICAL SECTIONS SHEET 3
01-CI-510024	ROAD HEIRARCHY TYPICAL SECTIONS SHEET 4
01-CI-510030	MAJOR ROAD AND ENTRY ROAD PLAN
01-CI-510031	ROAD LONGITUDINAL SECTION ROAD 78 SHEET 1
01-CI-510032	ROAD LONGITUDINAL SECTION ROAD 78 SHEET 2
01-CI-510033	ROAD LONGITUDINAL SECTION ROAD 781
01-CI-510034	ROAD LONGITUDINAL SECTION ROAD 4 SHEET 1
01-CI-510035	ROAD LONGITUDINAL SECTION ROAD 4 SHEET 2
01-CI-510036	ROAD LONGITUDINAL SECTION ROAD 21
01-CI-510040	ROAD TURNAROUND PATHS
SEWER AND WATER RETICULATION	
01-CI-550000	SEWER AND WATER RETICULATION OVERALL PLAN
01-CI-550001	SEWER AND WATER RETICULATION PLAN SHEET 1
01-CI-550002	SEWER AND WATER RETICULATION PLAN SHEET 2
01-CI-550003	SEWER AND WATER RETICULATION PLAN SHEET 3
01-CI-550004	SEWER AND WATER RETICULATION PLAN SHEET 4

SCHEDULE OF DRAWINGS	
DRAWING No.	DESCRIPTION
01-CI-550005	SEWER AND WATER RETICULATION PLAN SHEET 5
01-CI-550006	SEWER AND WATER RETICULATION PLAN SHEET 6
01-CI-550007	SEWER AND WATER RETICULATION PLAN SHEET 7
01-CI-550008	SEWER AND WATER RETICULATION PLAN SHEET 8
01-CI-550009	SEWER AND WATER RETICULATION PLAN SHEET 9
01-CI-550010	SEWER AND WATER RETICULATION PLAN SHEET 10
01-CI-550011	SEWER AND WATER RETICULATION PLAN SHEET 11
01-CI-550012	SEWER AND WATER RETICULATION PLAN SHEET 12
01-CI-550013	SEWER AND WATER RETICULATION PLAN SHEET 13
01-CI-550014	SEWER AND WATER RETICULATION PLAN SHEET 14
BRIDGE EMBANKMENT	
01-CI-570000	BRIDGE EMBANKMENT - ROAD & DRAINAGE
01-CI-570001	BRIDGE EMBANKMENT - CUT/FILL
01-CI-570010	BRIDGE EMBANKMENT - LONGITUDINAL SECTION
01-CI-570020	BRIDGE EMBANKMENT - CROSS SECTION - SHEET 1
01-CI-570021	BRIDGE EMBANKMENT - CROSS SECTION - SHEET 2
01-CI-570022	BRIDGE EMBANKMENT - CROSS SECTION - SHEET 3
SEWER TRUNK	
03-CI-550000	SEWER COVER SHEET
03-CI-550001	SEWER LOCALITY PLAN AND DRAWING SCHEDULE
03-CI-550002	SEWER GENERAL NOTES AND TYPICAL DETAILS
03-CI-550010	SEWER LAYOUT PLAN - LINE 29
03-CI-550011	SEWER LONGITUDINAL SECTION - LINE 29
03-CI-550020	SEWER LAYOUT PLAN - LINE 30
03-CI-550021	SEWER LONGITUDINAL SECTION - LINE 30 - SHEET 1
03-CI-550022	SEWER LONGITUDINAL SECTION - LINE 30 - SHEET 2
03-CI-550030	SEWER LAYOUT PLAN & LONGITUDINAL SECTION - LINE 31
03-CI-550035	SEWER LAYOUT PLAN & LONGITUDINAL SECTION - LINE 32
03-CI-550040	SEWER MANHOLE DETAILS SHEET 1
03-CI-550041	SEWER MANHOLE DETAILS SHEET 2



LEGEND:

SITE OF WORKS

POTENTIAL BORROW EARTHWORKS AREA

PRECINCT BOUNDARY

EXISTING LOT BOUNDARY

PROPOSED LOT BOUNDARY



1	ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03
Issued/Revision		By	Appd	YYYY.MM.DD

Issue Status

S4

SUITABLE FOR ROL APPROVAL

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Client/Project

KINDIRA - MONARCH GLEN

MIRVAC MONARCH GLEN

ROL05 LOT 2 ON SP351245

KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD
			RB	HS	MH		2026.06.03

Title

LOCALITY PLAN AND SCHEDULE OF DRAWINGS

Project No.

304702212

Drawing No.

01-CI-501001

Scale at A1

AS SHOWN

Revision

1

EROSION, SEDIMENT AND DRAINAGE CONTROL GENERAL NOTES

EROSION RISK

- A

	EXTENT OF EARTHWORKS
	STORMWATER CATCHMENT BOUNDARY
	CATCHMENT ID AND AREA
	EXISTING CONTOURS (1m INTERVAL)
	FINISHED CONTOURS (1m INTERVAL)
	FLOW DIRECTION
	CHECK DAM (INDICATIVE ONLY, REFER IECA STD DWG SD-RCD-01)(SAND BAGS TO BE USED WHERE CHANNELS ARE <0.5m DEPTH, ROCK TO BE USED WHERE CHANNELS ARE >0.5m DEPTH)
	FABRIC DROP INLET PROTECTION AROUND FIELD INLET / FABRIC WRAP INLET PROTECTION OVER GRATED INLET (REFER IECA STD DWG SD-FD-01, SD-FD-02 AND SD-FW-01)
	ON GRADE OR SAG PIT FILTER SOCK INLET PROTECTION (REFER IECA STD DWG SD-FS-01 AND SD-SA-01)
	OVERLAND FLOW PATH
	CLEAN WATER DIVERSION DRAIN, REFER NOTES 18 & 19 (REFER IECA STD DWG No. SD-DC-01)
	DIRTY WATER CATCH DRAIN, REFER NOTES 19 & 20 (REFER IECA STD DWG No. SD-CD-01, SD-CD-02, SD-CD-04 & SD-CD-05)
	TEMPORARY LINED BATTER CHUTE (REFER IECA STD DWG SD-CH-01, SD-CH-02, SD-CH-03 AND SD-CH-06)
	SEDIMENT FENCE (REFER IECA STD DWG SD-SF-01 AND SD-SF-02). SEDIMENT FENCE INSTALLED DOWN THE SLOPE TO HAVE RETURNS, WITH SPILL THROUGH WEIRS, PLACED AT REGULAR INTERVALS. ENDS OF SEDIMENT FENCE TO BE EXTENDED UPSLOPE AT LEAST 1.0m.
	SEDIMENT FENCE SPILL THROUGH WEIR. PROVIDE BATTER CHUTE TO ADJACENT CATCH DRAIN WHERE OUTLET GRADE EXCEEDS 1 IN 20 (5%)
	FLOW CONTROL BERM/BUND (REFER IECA STD DWG SD-CB-01 AND SD-MB-01 FOR TYPICAL DETAILS)
	SEDIMENT BASIN (INDICATIVE LOCATION ONLY, FINAL CONFIGURATION TO BE CONFIRMED ON-SITE. REFER DWG 304702212-01-CI-502002 FOR CONCEPT SIZING AND TYPICAL DETAILS AND NOTES)
	SEDIMENT BASIN HIGH FLOW SPILLWAY LOCATION (INDICATIVE ONLY, TO BE CONFIRMED ON-SITE)
	DESIGNATED STOCKPILE LOCATION (INDICATIVE ONLY, IF REQUIRED)
	TURF FULL VERGE AREA FROM BACK OF KERB TO LOT BOUNDARY. TURF LINE INTER-ALLOTMENT DRAINAGE CHANNELS (REFER IECA STD DWG SD-GFS-01 AND SD-GFS-02)
	AREA TO BE TOPSOILED AND SEEDED, TURFED, LANDSCAPED OR STABILISED TO DESIGN REQUIREMENTS. BATTERS TO BE LANDSCAPED, TURFED OR HYDROMULCHED ETC IN ACCORDANCE WITH APPROVED CIVIL AND / OR LANDSCAPE DRAWINGS.
	HYDRAULICALLY APPLIED STABILISER TO BE APPLIED TO ALL BATTERS TO SUPERINTENDENT'S INSTRUCTIONS (REFER IECA STD DWG SD-BFM-01). ANY TABLE DRAINS TO BE STABILISED USING EROSION CONTROL METHODS SUITABLE FOR CONCENTRATED FLOW AREAS.
	EXISTING DIVERSION DRAIN
	CONSTRUCTION ENTRY / EXIT ROCK PAD (INDICATIVE ONLY, REFER IECA STD DWG SD-EXIT-01 AND SD-EXIT-02)
	SEDIMENT TRENCH AND WEIR (REFER IECA STD DWG SD-SS-01, SD-SS-02, SD-SW-01 AND SD-SW-02) (INDICATIVE LOCATION ONLY, FINAL POSITION TO BE CONFIRMED ON SITE)
	ROCK FILTER DAM (REFER IECA STD DWG SD-RFD-01 AND SD-RFD-02) (INDICATIVE LOCATION ONLY, FINAL POSITION TO BE CONFIRMED ON-SITE)
	LEVEL SPREADER FLOW DISSIPATER (INDICATIVE ONLY, REFER IECA STD DWG SD-LS-01)
	TEMPORARY LOW-FLOW CULVERT CROSSING

1. THE EROSION AND SEDIMENT CONTROL MEASURES IMPLEMENTED ON SITE SHOULD BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) AUSTRALASIA 'BEST PRACTICE EROSION AND SEDIMENT CONTROL (NOVEMBER 2008)' GUIDELINES, WITH DETAILS SHOWN ON THE STANDARD DRAWINGS NOTED, AND AS REQUIRED FOR COMPLIANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN.
2. EROSION, SEDIMENT AND DRAINAGE CONTROLS TO BE INSTALLED PRIOR TO THE PLANNED BULK EARTHWORKS. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE PLANS HAVE BEEN BASED ON A CONSTRUCTION PERIOD OF UP TO 12 MONTHS. SHOULD THE CONSTRUCTION PERIOD EXTEND BEYOND 12 MONTHS THEN THE CONTROL MEASURES PROVIDED SHOULD BE REVIEWED TO CONFIRM IF THE DEVICES REMAIN ADEQUATE.
3. THE CONTROL MEASURES NOTED IN THIS PLAN REPRESENT THE MINIMUM ANTICIPATED STANDARDS OF EROSION AND SEDIMENT CONTROL FOR THE NOTED CONSTRUCTION PHASE. ALL MEASURES ARE TO BE SUPPLEMENTED WITH MONITORING AND MAINTENANCE ON SITE. ADDITIONAL CONTROLS OR MODIFICATIONS TO WORK PRACTICES MAY BE REQUIRED TO SUIT THE SITE CONDITIONS OR CONSTRUCTION SEQUENCING AS IDENTIFIED THROUGH ON-SITE MONITORING.
4. SHOULD IT BE DEEMED NECESSARY FROM MONITORING OR WHERE DIRECTED BY THE SUPERINTENDENT, THE CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES TO MINIMISE THE IMPACT OF CONSTRUCTION ACTIVITIES ON THE SURROUNDING ENVIRONMENT.
5. PUBLIC AND WORKPLACE SAFETY ISSUES MUST BE CONSIDERED AND MONITORED FOR EACH DEVICE TO THE SATISFACTION OF LOCAL AUTHORITIES AND INDUSTRY STANDARDS.
6. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING EROSION, DRAINAGE AND SEDIMENT CONTROL DEVICES TO ACCOMMODATE EARTHWORKS AS REQUIRED. THE LOCATION OF THE EROSION, DRAINAGE AND SEDIMENT CONTROL DEVICES SHOWN ARE INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SPECIFICALLY LOCATE THE CONTROL DEVICES, AND MINIMISE SEDIMENT TRANSPORT DOWNSTREAM DURING ALL STAGES OF CONSTRUCTION, INCLUDING THE MAINTENANCE PERIOD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE INTENTS OF THESE PLANS AND ANY CONSENT AUTHORITY COMPLIANCE RECOMMENDATIONS ARE COMPLIED WITH.
7. WHERE PRACTICAL ALL AREAS OF THE SITE NOT SUBJECT TO EROSION, CONTAMINATION OR DISTURBANCE MUST HAVE PROVISION FOR ALL 'CLEAN WATER' RUN-OFF TO BE DIVERTED AWAY FROM THE NOMINATED EROSION AND SEDIMENT CONTROL MEASURES AND FACILITIES, IN A MANNER, WHICH DOES NOT CAUSE SCOURING, OR EROSION.
8. WHERE INDICATED CONTAMINATED RUN-OFF MUST BE DIRECTED TOWARDS A TEMPORARY SEDIMENT CONTROL DEVICE DURING BOTH THE BULK EARTHWORKS PHASE AND CIVIL WORKS PHASE UNTIL MINIMUM 80% OF THE CONTRIBUTING SITE IS ADEQUATELY STABILISED.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES INSTALLED DURING BULK EARTHWORKS ARE TO BE MAINTAINED IN EFFECTIVE OPERATIONAL CONDITION UNTIL THE SITE IS ADEQUATELY STABILISED. THIS INCLUDES MONITORING, REPAIRS AND CLEANING OUT AT REGULAR INTERVALS, AFTER STORM EVENTS. DISTURBANCE BY CONSTRUCTION AND AS DIRECTED BY SUPERINTENDENT ON SITE. THESE STRUCTURES MUST NOT BE ALLOWED TO ACCUMULATE SEDIMENT VOLUMES IN EXCESS OF THIRTY PER CENT (30%) SEDIMENT STORAGE DESIGN CAPACITY. WHERE SEDIMENT BASINS ARE USED A MARKER SHALL BE PLACED WITHIN THE BASIN TO SHOW THE LEVEL AT WHICH THE SEDIMENT STORAGE DESIGN CAPACITY OCCURS. MATERIALS REMOVED FROM SEDIMENT RETENTION DEVICES MUST BE DISPOSED OF IN A MANNER APPROVED BY THE CONSENT AUTHORITY THAT DOES NOT CAUSE POLLUTION.
10. WHERE WATER STORAGE IS PROPOSED FOR CONSTRUCTION PURPOSES, IT SHOULD BE PROVIDED OVER AND ABOVE THE MINIMUM NOTED SEDIMENT BASIN SETTLING ZONE AND STORAGE ZONE VOLUMES. WATER LEVELS SHOULD NOT EXTEND INTO THE SETTLING ZONE VOLUME TO ALLOW FOR THIS VOLUME TO BE AVAILABLE FOR THE NEXT RAINFALL EVENT.
11. ACCESS TO THE SITE MUST BE RESTRICTED TO THE NOMINATED STABILISED CONSTRUCTION ENTRANCE / EXITS. ROCK PAD ACCESS POINTS SHALL BE PROVIDED TO HELP SHAKE MUD / SEDIMENT FROM VEHICLE TYRES. THE NUMBER OF CONSTRUCTION ACCESS POINTS TO BE LIMITED. ADDITIONAL MEASURES TO BE PROVIDED IF EVIDENCE OF SEDIMENT BEING TRANSPORTED ONTO ROADWAYS.
12. ANY DIRT / MATERIALS SPILT OR TRACKED ONTO DTMR, COUNCIL OR OTHER EXTERNAL ROADS IS TO BE BROOMED UP AND COLLECTED - NOT WASHED INTO STORMWATER DRAINS OR WATERWAYS.
13. THE CONTRACTOR SHALL ENSURE THE STABILISED SITE ACCESS IS MAINTAINED AND CLEANED OUT REGULARLY AND AS DIRECTED BY THE SUPERINTENDENT ON SITE. ALL STORMWATER RUNOFF FROM ENTRY / EXIT LOCATIONS IS TO BE TREATED AS DIRTY WATER AND DIRECTED TO AN APPROPRIATE SEDIMENT CONTROL DEVICE.
14. RUNOFF RETAINED WITHIN THE SEDIMENT BASINS IS NOT TO BE RELEASED TO THE RECEIVING ENVIRONMENT UNTIL THE SUSPENDED SOLIDS CONCENTRATIONS ARE LESS THAN 50 MILLIGRAMS PER LITRE, AND THE pH OF THE WATER WITHIN THE BASIN IS WITHIN THE 6.5-8.5 RANGE. TESTING OF SUSPENDED SOLIDS AND pH WITHIN ANY TEMPORARY SEDIMENT BASIN IS TO OCCUR PRIOR TO ANY CONTROLLED DISCHARGES.
15. DOSING OF A COAGULANT AND/OR FLOCCULANT IS ANTICIPATED TO BE REQUIRED TO REACH ACCEPTABLE LEVELS OF pH AND SUSPENDED SOLIDS. THE CONTRACTOR TO CONFIRM THE DETAILED METHODS FOR FLOCCULATION, AND THE TYPES AND DOSES OF COAGULANTS AND / OR FLOCCULANTS TO BE UTILISED ON SITE.
16. DURING CONSTRUCTION, STOCKPILES AND AREAS OF BARE SOIL OR EARTH THAT ARE LIKELY TO BECOME ERODED MUST BE ADEQUATELY PROTECTED – BY UPSLOPE SURFACE WATER DIVERSION, DOWNSLOPE SEDIMENT CONTROLS AND TEMPORARY SURFACE COVERINGS. STOCKPILES TO BE POSITIONED AWAY FROM OVERLAND FLOW PATHS, POOR DRAINAGE AREAS OR OTHER LIKELY CONFLUENCES WHERE CONCENTRATED FLOW MAY CAUSE SEDIMENT TRANSPORTATION.
17. TOPSOIL STOCKPILES ARE TO BE MULCHED OR TEMPORARILY VEGETATED IF THEY ARE TO REMAIN FOR MORE THAN 28 DAYS.
18. MAXIMUM LENGTH OF EXPOSED SLOPE TO BE LIMITED TO 80m BY THE USE OF THE EROSION, DRAINAGE AND SEDIMENT DEVICES SHOWN.
19. CLEAN WATER DIVERSION DRAINS TO BE TURFED IF LONGITUDINAL GRADE <10% AND 2 YR ARI VELOCITY IS LESS THAN 1.5m/s, OTHERWISE THEY ARE TO BE ROCK LINED.
20. THE OUTLETS OF ALL DIVERSION DRAINS TO HAVE ROCK SCOUR PROTECTION INSTALLED TO ACT AS AN OUTLET DISCHARGE ENERGY DISSIPATER.
21. VELOCITY CONTROLS AND / OR CHANNEL LININGS TO BE UTILISED WITHIN EARTH LINED CATCH DRAINS WITH FLOW VELOCITIES >0.6m/s.
22. ALL DIVERSION DRAINS / CATCH DRAINS SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
23. DUMPED ROCK SHALL NOT BE LESS THAN THE NOMINATED D/50. IF THE NOMINATED SIZE IS NOT AVAILABLE, USE NEXT AVAILABLE LARGER SIZE.
24. FOR MANAGEMENT OF DISPERSIVE SOILS REFER TO IECA 'BEST PRACTICE EROSION AND SEDIMENT CONTROL (NOVEMBER, 2008)' GUIDELINES FOR FURTHER GUIDANCE.
25. FOR IDENTIFIED DISPERSIVE SOILS AREAS, FLOW DIVERSION BUNDS / BANKS SHOULD BE ADOPTED OVER CUT IN CATCH DRAINS. WHERE CUT IN DRAINS ARE NECESSARY WITHIN DISPERSIVE SOIL AREAS, THESE CATCH DRAINS SHOULD BE ADEQUATELY LINED WITH A MINIMUM OF 150mm OF NON-DISPERSIVE MATERIAL PRIOR TO THE INSTALLATION OF OTHER TEMPORARY CHANNEL LININGS OR CHECK DAMS.
26. WHERE PRACTICAL, CONSTRUCTION WORKS WITH A HIGH EROSION AND SEDIMENTATION RISK, SUCH AS WORKS ADJACENT TO AND WITHIN OVERLAND FLOW PATHS, ARE TO BE SCHEDULED DURING LOW EROSION RISK PERIODS WITH MINIMAL PREDICTED RAINFALL.
27. ALL DISTURBED SURFACES OTHER THAN CHANNEL WORKS AREAS TO BE EITHER ADEQUATELY SEALED, STABILISED OR VEGETATED TO THE DESIGN REQUIREMENTS WITHIN 20 DAYS OF COMPLETION OF SITE WORKS FOR MODERATE EROSION RISK PERIODS, WITHIN 10 DAYS FOR HIGH EROSION RISK PERIODS, AND WITHIN 5 DAYS FOR EXTREME EROSION RISK PERIODS.
28. CHANNEL WORKS AREAS TO BE ADEQUATELY STABILISED OR VEGETATED TO THE DESIGN REQUIREMENTS WITHIN 10 DAYS OF COMPLETION OF WORKS FOR MODERATE EROSION RISK, AND WITHIN 5 DAYS FOR HIGH AND EXTREME EROSION RISK PERIODS.
29. SEDIMENT DEPOSITS THAT OCCUR OFF-SITE (ON ROADS, WITHIN DRAINS OUTSIDE WORK AREA, WITHIN WATERCOURSE) AS A RESULT OF THESE CONSTRUCTION WORKS ARE TO BE CLEANED UP AND REHABILITATED TO PRIOR CONDITION AS SOON AS POSSIBLE FOLLOWING IDENTIFICATION OF PROBLEM.
30. ADEQUATE WASTE STORAGE IS REQUIRED ACROSS THE CONSTRUCTION AREA TO PREVENT BUILD UP OF WASTE/RUBBISH AND RISK OF DEPOSITION TO THE ENVIRONMENT.
31. SURFACE WATER MONITORING, RECORDING AND REPORTING IS TO BE UNDERTAKEN AS OUTLINED IN THE APPROVED CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN.
32. EROSION AND SEDIMENT CONTROL PLAN DRAWINGS SHOULD BE REVIEWED REGULARLY AND UPDATED AS REQUIRED IN RESPONSE TO CHANGES IN SITE CONDITIONS, CONSTRUCTION ACTIVITIES OR CONSTRUCTION STAGING.
33. IT IS RECOMMENDED THAT PHOTOGRAPHS OF THE IMPLEMENTED EROSION AND SEDIMENT CONTROL MEASURES BE TAKEN DURING THE WEEKLY INSPECTIONS TO ASSIST WITH DEMONSTRATING THE IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON SITE.

DOSING WITH A COAGULANT AND/OR FLOCCULANT IS ANTICIPATED TO BE REQUIRED TO REACH ACCEPTABLE LEVELS OF pH AND SUSPENDED SOLIDS. THE CONTRACTOR TO CONFIRM THE DETAILED METHODS FOR FLOCCULATION, AND THE TYPES AND DOSES OF COAGULANTS AND / OR FLOCCULANTS TO BE UTILISED ON SITE.

1. DURING CONSTRUCTION, STOCKPILES AND AREAS OF BARE SOIL OR EARTH THAT ARE LIKELY TO BECOME ERODED MUST BE ADEQUATELY PROTECTED – BY UPSLOPE SURFACE WATER DIVERSION, DOWNSLOPE SEDIMENT CONTROLS AND TEMPORARY SURFACE COVERINGS. STOCKPILES TO BE POSITIONED AWAY FROM OVERLAND FLOW PATHS. POOR DRAINAGE AREAS OR OTHER LIKELY CONFLUENCES WHERE CONCENTRATED FLOW MAY CAUSE SEDIMENT TRANSPORTATION.
16. TOPSOIL STOCKPILES ARE TO BE MULCHED OR TEMPORARILY VEGETATED IF THEY ARE TO REMAIN FOR MORE THAN 28 DAYS.
17. MAXIMUM LENGTH OF EXPOSED SLOPE TO BE LIMITED TO 80m BY THE USE OF THE EROSION, DRAINAGE AND SEDIMENT DEVICES SHOWN.
18. CLEAN WATER DIVERSION DRAINS TO BE TURFED IF LONGITUDINAL GRADE <10% AND 2 YR ARI VELOCITY IS LESS THAN 1.5m/s, OTHERWISE THEY ARE TO BE ROCK LINED.
19. THE OUTLETS OF ALL DIVERSION DRAINS TO HAVE ROCK SCOUR PROTECTION INSTALLED TO ACT AS AN OUTLET DISCHARGE ENERGY DISSIPATER.
20. VELOCITY CONTROLS AND / OR CHANNEL LININGS TO BE UTILISED WITHIN EARTH LINED CATCH DRAINS WITH FLOW VELOCITIES >0.6m/s.
21. ALL DIVERSION DRAINS / CATCH DRAINS SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
22. DUMPED ROCK SHALL NOT BE LESS THAN THE NOMINATED D/50. IF THE NOMINATED SIZE IS NOT AVAILABLE, USE NEXT AVAILABLE LARGER SIZE.
23. FOR MANAGEMENT OF DISPERSIVE SOILS REFER TO IECA 'BEST PRACTICE EROSION AND SEDIMENT CONTROL (NOVEMBER, 2008)' GUIDELINES FOR FURTHER GUIDANCE.
24. FOR IDENTIFIED DISPERSIVE SOILS AREAS, FLOW DIVERSION BUNDS / BANKS SHOULD BE ADOPTED OVER CUT IN CATCH DRAINS. WHERE CUT IN DRAINS ARE NECESSARY WITHIN DISPERSIVE SOIL AREAS, THESE CATCH DRAINS SHOULD BE ADEQUATELY LINED WITH A MINIMUM OF 150mm OF NON-DISPERSIVE MATERIAL PRIOR TO THE INSTALLATION OF OTHER TEMPORARY CHANNEL LININGS OR CHECK DAMS.
25. WHERE PRACTICAL, CONSTRUCTION WORKS WITH A HIGH EROSION AND SEDIMENTATION RISK, SUCH AS WORKS ADJACENT TO AND WITHIN OVERLAND FLOW PATHS, ARE TO BE SCHEDULED DURING LOW EROSION RISK PERIODS WITH MINIMAL PREDICTED RAINFALL.
26. ALL DISTURBED SURFACES OTHER THAN CHANNEL WORKS AREAS TO BE EITHER ADEQUATELY SEALED, STABILISED OR VEGETATED TO THE DESIGN REQUIREMENTS WITHIN 20 DAYS OF COMPLETION OF SITE WORKS FOR MODERATE EROSION RISK PERIODS, WITHIN 10 DAYS FOR HIGH EROSION RISK PERIODS, AND WITHIN 5 DAYS FOR EXTREME EROSION RISK PERIODS.
27. CHANNEL WORKS AREAS TO BE ADEQUATELY STABILISED OR VEGETATED TO THE DESIGN REQUIREMENTS WITHIN 10 DAYS OF COMPLETION OF WORKS FOR MODERATE EROSION RISK, AND WITHIN 5 DAYS FOR HIGH AND EXTREME EROSION RISK PERIODS.
28. SEDIMENT DEPOSITS THAT OCCUR OFF-SITE (ON ROADS, WITHIN DRAINS OUTSIDE WORK AREA, WITHIN WATERCOURSE) AS A RESULT OF THESE CONSTRUCTION WORKS ARE TO BE CLEANED UP AND REHABILITATED TO PRIOR CONDITION AS SOON AS POSSIBLE FOLLOWING IDENTIFICATION OF PROBLEM.
29. ADEQUATE WASTE STORAGE IS REQUIRED ACROSS THE CONSTRUCTION AREA TO PREVENT BUILD UP OF WASTE/RUBBISH AND RISK OF DEPOSITION TO THE ENVIRONMENT.
30. SURFACE WATER MONITORING, RECORDING AND REPORTING IS TO BE UNDERTAKEN AS OUTLINED IN THE APPROVED CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN.
31. EROSION AND SEDIMENT CONTROL PLAN DRAWINGS SHOULD BE REVIEWED REGULARLY AND UPDATED AS REQUIRED IN RESPONSE TO CHANGES IN SITE CONDITIONS, CONSTRUCTION ACTIVITIES OR CONSTRUCTION STAGING.
32. IT IS RECOMMENDED THAT PHOTOGRAPHS OF THE IMPLEMENTED EROSION AND SEDIMENT CONTROL MEASURES BE TAKEN DURING THE WEEKLY INSPECTIONS TO ASSIST WITH DEMONSTRATING THE IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON SITE.

1. FROM TABLE 4.4.2 - EROSION RISK RATING BASED ON AVERAGE MONTHLY RAINFALL DEPTH OF THE IECA GUIDELINES, THE SUBJECT SITE IS ESTIMATED TO HAVE AN EROSION RISK RATING RANGING BETWEEN 'HIGH' FOR THE MONTHS OF JANUARY TO MARCH AND DECEMBER, THROUGH TO 'LOW' FOR AUGUST AND SEPTEMBER. REFER TO TABLE BELOW FOR THE MONTHLY EROSION RISK RATINGS FOR NEARBY BRISBANE.

TABLE 1 - EROSION RISK RATING BASED ON AVERAGE MONTHLY RAINFALL DEPTH

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BRISBANE	H	H	H	M	M	M	M	L	L	M	M	H

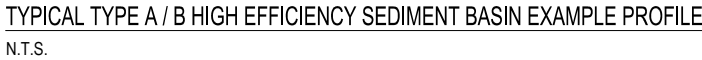
2. FROM TABLE 4.4.7 OF THE IECA GUIDELINES, THE FOLLOWING BEST PRACTICE LAND CLEARING AND REHABILITATION REQUIREMENTS HAVE BEEN RECOMMENDED FOR 'LOW', 'MODERATE', 'HIGH' AND 'EXTREME' EROSION RISK RATINGS:
- FOR A 'LOW' EROSION RISK RATING:
- LAND CLEARING LIMITED TO MAXIMUM OF EIGHT (8) WEEKS OF WORK.
 - DISTURBED SOIL SURFACES STABILISED WITH A MINIMUM 70% COVER WITHIN 30 DAYS OF COMPLETION OF WORKS WITHIN ANY AREA OF A WORK SITE.
 - UNFINISHED EARTHWORKS ARE SUITABLY STABILISED IF RAINFALL IS REASONABLY POSSIBLE, AND DISTURBANCE IS EXPECTED TO BE SUSPENDED FOR A PERIOD EXCEEDING 30 DAYS.
- FOR A 'MODERATE' EROSION RISK RATING:
- LAND CLEARING LIMITED TO MAXIMUM OF SIX (6) WEEKS OF WORK.
 - DISTURBED SOIL SURFACES STABILISED WITH A MINIMUM 70% COVER WITHIN 20 DAYS OF COMPLETION OF WORKS WITHIN ANY AREA OF A WORK SITE.
 - STAGE CONSTRUCTION AND STABILISATION OF EARTH BATTERS (STEEPER THAN 6H:1V) IN MAXIMUM 3m VERTICAL INCREMENTS WHEREVER REASONABLE AND PRACTICABLE.
 - UNFINISHED EARTHWORKS ARE SUITABLY STABILISED IF RAINFALL IS REASONABLY POSSIBLE, AND DISTURBANCE IS EXPECTED TO BE SUSPENDED FOR A PERIOD EXCEEDING 20 DAYS.
- FOR A 'HIGH' EROSION RISK RATING:
- LAND CLEARING LIMITED TO MAXIMUM OF FOUR (4) WEEKS OF WORK.
 - DISTURBED SOIL SURFACES STABILISED WITH A MINIMUM 75% COVER WITHIN 10 DAYS OF COMPLETION OF WORKS WITHIN ANY AREA OF A WORK SITE.
 - STAGE CONSTRUCTION AND STABILISATION OF EARTH BATTERS (STEEPER THAN 6H:1V) IN MAXIMUM 3m VERTICAL INCREMENTS WHEREVER REASONABLE AND PRACTICABLE.
 - THE USE OF TURF TO FORM GRASSED SURFACES GIVEN APPROPRIATE CONSIDERATION.
 - SOIL STOCKPILES AND UNFINISHED EARTHWORKS ARE SUITABLY STABILISED IF DISTURBANCE IS EXPECTED TO BE SUSPENDED FOR A PERIOD EXCEEDING 10 DAYS.
- FOR A 'EXTREME' EROSION RISK RATING:
- LAND CLEARING LIMITED TO MAXIMUM OF TWO (2) WEEKS OF WORK.
 - DISTURBED SOIL SURFACES STABILISED WITH A MINIMUM 80% COVER WITHIN 5 DAYS OF COMPLETION OF WORKS WITHIN ANY AREA OF A WORK SITE.
 - STAGE CONSTRUCTION AND STABILISATION OF EARTH BATTERS (STEEPER THAN 6H:1V) IN MAXIMUM 2m VERTICAL INCREMENTS WHEREVER REASONABLE AND PRACTICABLE.
 - HIGH PRIORITY GIVEN TO THE USE OF TURF TO FORM GRASSED SURFACES.
 - SOIL STOCKPILES AND UNFINISHED EARTHWORKS ARE SUITABLY STABILISED IF DISTURBANCE IS EXPECTED TO BE SUSPENDED FOR A PERIOD EXCEEDING 5 DAYS.

APPLICATION OF EROSION CONTROL MEASURES TO SOIL SLOPES
(TABLE 4.4.13 OF IECA 2008)

FLAT LAND (FLATTER THAN 1 in 10)	MILD SLOPE (1 in 10 - 1 in 4)	STEEP SLOPE (STEEPER THAN 1 in 4)
EROSION CONTROL BLANKETS	BONDED FIBRE MATRIX	BONDED FIBRE MATRIX
GRAVELLING	COMPOST BLANKETS	CELLULAR CONFINEMENT SYSTEMS
MULCHING	EROSION CONTROL BLANKETS, MATS AND MESH	COMPOST BLANKETS
REVEGETATION	MULCHING WELL ANCHORED	EROSION CONTROL BLANKETS, MATS AND MESH
ROCK MULCHING	REVEGETATION	REVEGETATION
SOIL BINDER	ROCK MULCHING	ROCK ARMOURING
TURFING	TURFING	TURFING

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[illegible]



DEVICE ID	CONTRIBUTING CATCHMENT ID	CATCHMENT AREA	SIDE BATTERS	BASIN LENGTH @ MID DEPTH OF BASIN SETTLING ZONE	BASIN WIDTH @ MID DEPTH OF BASIN SETTLING ZONE	BASIN AREA @ MID DEPTH OF SETTLING ZONE	SETTLING ZONE DEPTH	FREE WATER DEPTH	SEDIMENT STORAGE DEPTH	TOTAL DEPTH FROM SPILLWAY	SETTLING ZONE VOLUME	SEDIMENT ZONE STORAGE VOLUME	FREE WATER ZONE STORAGE	TOTAL BASIN STORAGE VOLUME	MIN. INLET ZONE LENGTH AT SPILLWAY LEVEL	MIN. INLET ZONE WIDTH AT SPILLWAY LEVEL	INLET ZONE DEPTH	MIN. INLET ZONE VOLUME	EMERGENCY SPILLWAY LENGTH	Q20 SPILLWAY DEPTH	FREEBOARD	No. OF DECAT ARMS
SB-1B	C-1B	2.65 ha	1 in 4	44m	15m	648m²	0.60m	0.20m	0.32m	1.12m	389m³	117m³	94m³	600m³	8m	17m	1.0m	39m³	15m	0.15m	0.3m	6
SB-1C	C-1C	0.60 ha	1 in 3	12m	12m	146m²	0.60m	0.20m	0.44m	1.24m	88m³	26m³	19m³	133m³	8m	14m	1.0m	9m³	12m	0.15m	0.3m	2
SB-1D	C-1D	0.91 ha	1 in 3	15m	15m	222m²	0.60m	0.20m	0.34m	1.14m	133m³	40m³	31m³	204m³	8m	17m	1.0m	13m³	15m	0.15m	0.3m	2
SB-1K	C-1K	2.05 ha	1 in 4	39m	13m	500m²	0.60m	0.20m	0.36m	1.16m	300m³	90m³	69m³	459m³	8m	15m	1.0m	30m³	13m	0.15m	0.3m	5
SB-1L	C-1L	3.94 ha	1 in 4	54m	18m	962m²	0.60m	0.20m	0.28m	1.08m	577m³	173m³	149m³	899m³	8m	20m	1.0m	58m³	18m	0.15m	0.3m	8
SB-1M	C-1M	2.28 ha	1 in 4	41m	14m	557m²	0.60m	0.20m	0.35m	1.15m	334m³	100m³	79m³	513m³	8m	16m	1.0m	33m³	14m	0.15m	0.3m	5
SB-1J	C-1J	1.03 ha	1 in 3	22m	11m	251m²	0.60m	0.20m	0.35m	1.15m	151m³	45m³	35m³	231m³	8m	13m	1.0m	15m³	11m	0.15m	0.3m	3
SB-2A	C-2A	4.33 ha	1 in 4	46m	23m	1,058m²	0.60m	0.20m	0.26m	1.06m	635m³	190m³	170m³	995m³	8m	25m	1.0m	63m³	23m	0.15m	0.3m	9
SB-2B	C-2B	8.30 ha	1 in 4	78m	26m	2,028m²	0.60m	0.20m	0.24m	1.04m	1,217m³	365m³	341m³	1,923m³	10m	28m	1.0m	122m³	26m	0.20m	0.3m	17
SB-2C	C-2C	10.37 ha	1 in 4	71m	36m	2,534m²	0.60m	0.20m	0.23m	1.03m	1,520m³	456m³	440m³	2,417m³	9m	38m	1.0m	152m³	36m	0.20m	0.3m	21
SB-2D	C-2D	1.20 ha	1 in 3	30m	10m	294m²	0.60m	0.20m	0.36m	1.16m	176m³	53m³	41m³	270m³	8m	12m	1.0m	18m³	10m	0.15m	0.3m	3
SB-2E	C-2E	5.50 ha	1 in 4	64m	21m	1,345m²	0.60m	0.20m	0.26m	1.06m	807m³	242m³	217m³	1,266m³	8m	24m	1.0m	81m³	21m	0.20m	0.3m	12
SB-2F	C-2F	22.65 ha	1 in 4	105m	53m	5,535m²	0.60m	0.20m	0.21m	1.01m	3,321m³	996m³	1,008m³	5,325m³	13m	55m	1.0m	332m³	53m	0.25m	0.3m	46
SB-2G	C-2G	9.95 ha	1 in 4	70m	35m	2,431m²	0.60m	0.20m	0.23m	1.03m	1,458m³	438m³	421m³	2,317m³	9m	37m	1.0m	146m³	35m	0.20m	0.3m	20
SB-2H	C-2H	5.85 ha	1 in 4	65m	22m	1,430m²	0.60m	0.20m	0.25m	1.05m	858m³	257m³	232m³	1,347m³	8m	24m	1.0m	86m³	22m	0.20m	0.3m	12
SB-2I	C-2I	1.23 ha	1 in 3	30m	10m	301m²	0.60m	0.20m	0.35m	1.15m	180m³	54m³	42m³	277m³	8m	12m	1.0m	18m³	10m	0.15m	0.3m	3
SB-3A	C-3A	4.33 ha	1 in 4	46m	23m	1,058m²	0.60m	0.20m	0.26m	1.06m	635m³	190m³	170m³	995m³	8m	25m	1.0m	63m³	23m	0.15m	0.3m	9
SB-3B	C-3B	7.79 ha	1 in 4	53m	36m	1,902m²	0.60m	0.20m	0.23m	1.03m	1,141m³	342m³	326m³	1,809m³	8m	38m						

1. FOR AN IDEAL SIZED CONSTRUCTION PHASE SEDIMENT BASIN THE NOTED MINIMUM AVERAGE SETTLING ZONE AREAS, LENGTHS AND WIDTHS ARE AT THE MID-DEPTH OF THE SETTLING ZONE. THE TOTAL BASIN DIMENSIONS NEED TO CONSIDER THE ADOPTED BATTERS SLOPES.
2. IDEAL SIZED SEDIMENT BASIN RECOMMENDED 3:1 EFFECTIVE LENGTH TO WIDTH RATIO. WHERE THE RECOMMENDED LENGTH TO WIDTH RATIO IS NOT PRACTICAL, SUB-CONTRACTOR TO INCLUDE INTERNAL BAFFLES TO INCREASE THE EFFECTIVE LENGTH TO WIDTH RATIO OF THE BASIN.
3. MINIMUM BASIN DEPTH ADOPTED FOR COMBINED SETTLING, FREE WATER (TYPE A ONLY) AND STORAGE ZONE VOLUMES.
4. ADDITIONAL 0.45m MINIMUM REQUIRED ABOVE FOR SPILLWAY HEIGHT AND FREEBOARD (0.3m).

- | | | | |
|----|---|-----|---|
| 5. | FOR IDEAL SIZED SEDIMENT BASIN:
- SETTLING ZONE 0.6m MINIMUM DEPTH FOR TYPE A BASINS AND 0.5m MINIMUM DEPTH FOR TYPE B BASINS.
- FREE WATER ZONE DEPTH 0.2m MINIMUM DEPTH (TYPE A ONLY).
- SEDIMENT STORAGE ZONE 0.2m MINIMUM DEPTH. | 9. | DEWATERING AND SPILLWAY OUTLET LOCATIONS ARE TO BE SPECIFIED ON SITE BY THE SUB-CONTRACTOR'S ENVIRONMENTAL MANAGER AND CONFIRMED BY THE SUPERINTENDENT. |
| 6. | FOR IDEAL SIZED SEDIMENT BASIN, SEDIMENT STORAGE VOLUME BASED ON 30% OF SETTLING ZONE VOLUME. A MARKER SHALL BE PLACED WITHIN THE BASIN TO SHOW THE LEVEL AT WHICH THE SEDIMENT STORAGE ZONE DESIGN CAPACITY OCCURS. | 10. | WHERE ROCK IS ENCOUNTERED, THE CUT BATTER OF THE SEDIMENT BASIN MAY BE CONSTRUCTED WITH A NOMINAL BATTER SLOPE OF 1(V) : 1(H). FOR OTHER SOILS, THE CUT BATTER SLOPE SHALL BE CONSTRUCTED WITH A NOMINAL BATTER SLOPE OF 1(V) : 4(H) OR FLATTER IF IT IS CONSIDERED THAT THE 1(V) : 4(H) SLOPE IS NOT SUFFICIENTLY STABLE FOR THE SOILS ENCOUNTERED. APPROPRIATE BASIN BATTER SLOPES FOR THE ON SITE CONDITIONS ENCOUNTERED TO BE CONFIRMED BY GEOTECHNICAL ENGINEER. |
| 7. | FOR IDEAL SIZED SEDIMENT BASIN EMERGENCY SPILLWAY WEIR LENGTHS BASED ON CONVEYING THE 20 YEAR ARI PEAK DISCHARGE, FOR THE CONTRIBUTING CATCHMENT AREA, WITH A MAXIMUM DEPTH OVER THE WEIR OF 0.15m. | 11. | EARTH EMBANKMENTS IN EXCESS OF 1m IN HEIGHT SHOULD BE CERTIFIED BY GEOTECHNICAL ENGINEER. |
| 8. | SEDIMENT BASIN CUT/FILL BATTERS TO BE CONSTRUCTED TO TIE IN WITH THE EXISTING GROUND. | 12. | IF BATTER SLOPES STEEPER THAN 1(V) : 4(H) ARE USED AROUND EDGE OF SEDIMENT BASIN, THEN SAFETY FENCING IS TO BE SUPPLIED TO THE FULL PERIMETER FOR THE |

- DURATION OF THE BASIN'S OPERATION.
13. TO INCREASE THE EFFECTIVE TREATMENT OF THE SEDIMENT BASINS, REFER TO SEDIMENT BASIN DESIGN, CONSTRUCTION, OPERATION AND MAINTENANCE GUIDELINES FOR DETAILS ON THE INCORPORATION OF ANCILLARY ITEMS SUCH AS INTERNAL Baffles.
14. REFER ICA 'BEST PRACTICE EROSION AND SEDIMENT CONTROL' GUIDELINES APPENDIX B - SEDIMENT BASIN DESIGN AND OPERATION (REV. JUNE 2018) FOR THE FOLLOWING:
- EXAMPLE BASIN PERFORMANCE REPORT.
 - SECTION B4 DEFAULT CONSTRUCTION SPECIFICATION.
 - SECTION B5 BASIN MAINTENANCE.
15. REFER ABOVE AND TO APPENDIX A OF THE WATER BY DESIGN SEDIMENT MANAGEMENT ON CONSTRUCTION SITES DOCUMENT FOR TYPICAL SEDIMENT BASIN DETAILS.

8. THE SEDIMENT BASINS MUST OPERATE AS WET BASINS, WITH THE TREATED RUNOFF TO BE DECANDED FROM THE BASINS ONCE COMPLIANT WITH THE 'DISCHARGE PERFORMANCE CRITERIA'. AS SOON AS CONDITIONS ALLOW, THE WATER LEVEL WITHIN THE BASINS SHOULD BE LOWERED BACK DOWN TO AT LEAST THE INVERT OF THE SETTLING ZONE. THIS WILL ALLOW THE SETTLING ZONE VOLUME OF THE BASINS TO BE AVAILABLE FOR THE NEXT RAINFALL EVENT.

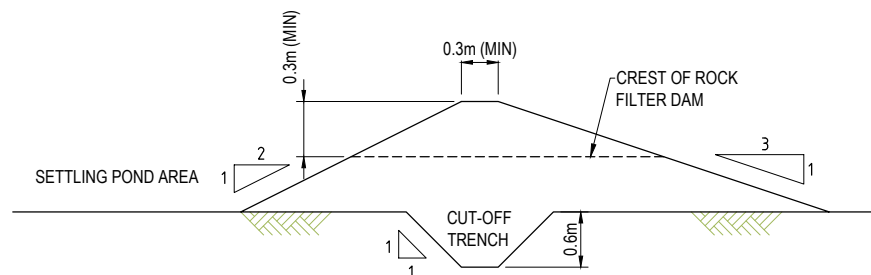
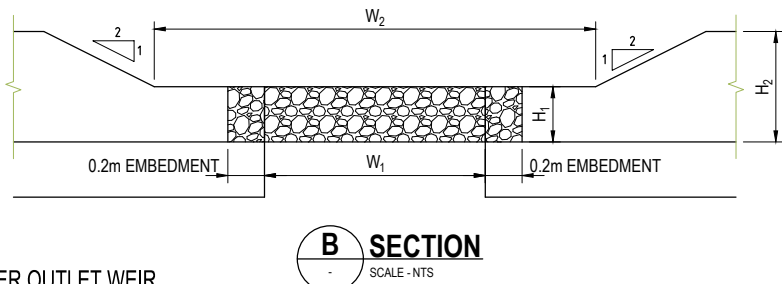
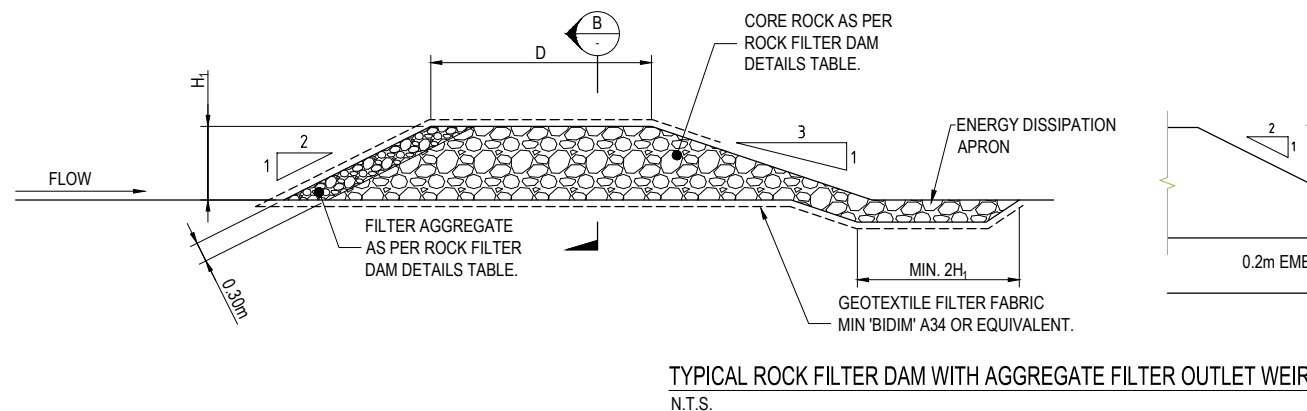
1. HIGHER RISK CONSTRUCTION WORKS TO BE SCHEDULED TO BE UNDERTAKEN DURING THE LOWER EROSION RISK MONTHS. HOWEVER, SHOULD THESE WORKS BE SCHEDULED FOR A TIME PERIOD WITH A HIGHER RAINFALL DEPTH EROSION RISK, THEN AN INCREASED USE OF APPROPRIATE DRAINAGE AND EROSION CONTROL TECHNIQUES AND SOIL STABILISATION MEASURES SHOULD BE ADOPTED.

8. IF IMMINENT HEAVY RAINFALL IS FORECAST PRIOR TO THE STABILISATION OF THE CONSTRUCTION WORKS, THEN THE SUB-CONTRACTOR SHOULD CONSIDER TEMPORARY STABILISATION OF THE EXPOSED SOIL AREAS WITH A HYDRAULICALLY APPLIED STABILISER SUCH AS 'GEOSPRAY' OR APPROVED EQUIVALENT. METHODS FOR STABILISATION WILL BE DEPENDENT ON LOCATION AND ANTICIPATED TYPE OF RUNOFF EXPOSURE (I.E. SHEET FLOW OR CONCENTRATED FLOW). REFER TABLE 2 FOR THE VARIOUS EROSION RISK RATINGS FOR VARIOUS EXPECTED 24-HOUR RAINFALL RANGES.

11. ONCE THE PROPOSED WORK AREAS ARE ADEQUATELY STABILISED, AND THE NOMINATED REHABILITATION MEASURES INSTALLED, THE DOWN SLOPE SEDIMENT CONTROL DEVICES. CAN BE REMOVED, AND THESE EXPOSED AREAS ADEQUATELY STABILISED AND REHABILITATED.

- REFER TYPICAL ROCK FILTER DAM OUTLET WEIR DETAILS FOR LOCATIONS OF VARIABLES 'D', 'H1', 'H2', 'W1' AND 'W2' FROM THE ABOVE TABLE.
- ROCK FILTER DAM DETAILS BASED ON 3 MONTH ARI PEAK FLOWS FILTERING THROUGH FILTER AGGREGATE, WITH FLOWS EXCEEDING THE FLOW CAPACITY OF THE FILTER AGGREGATE OVERTOPPING THE SPILLWAY.
- REFER IECA STD DWG SD-RFD-01, SD-RFD-02, SD-RFD-03 AND SD-RFD-04 FOR TYPICAL ROCK FILTER DAM DETAILS, INCLUDING INFORMATION ON DEVICE MATERIALS, INSTALLATION, MAINTENANCE AND REMOVAL.
- ROCK FILTER DAM TO BE CHECKED AFTER EACH RUNOFF EVENT AND ANY REPAIRS ARE TO BE MADE IMMEDIATELY. ANY REPAIRS TO UPSTREAM AND / OR DOWNSTREAM OF THE STRUCTURE SHOULD ALSO BE MADE.
- FROM FULL, THE ROCK FILTER DAM SHOULD DISCHARGE OVER NO LESS THAN EIGHT (8) HOURS. IF DRAINAGE IS TOO RAPID, ADDITIONAL FILTER AGGREGATE MAY BE REQUIRED TO ACHIEVE OPTIMUM HYDRAULIC PERFORMANCE. IF THE FLOW IS REDUCED TO AN UNACCEPTABLE LEVEL, THE UPSTREAM FILTER MEDIUM (AGGREGATE OR FILTER CLOTH) SHOULD BE REMOVED AND REPLACED.
- WHEN COLLECTED SEDIMENT EXCEEDS 10% OF THE SPECIFIED STORAGE VOLUME, REMOVE SEDIMENT AND RESTORE ORIGINAL SEDIMENT STORAGE VOLUME. SEDIMENT AND DEBRIS IS TO BE DISPOSED OF IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

DEVICE ID	CATCHMENT ID	MIN. SETTLING POND SURFACE AREA	SUGGESTED SETTLING POND LENGTH	SUGGESTED SETTLING POND WIDTH	DEVICE THICKNESS (IN DIRECTION OF FLOW) (D)	HEIGHT OF ROCK FILTER (WEIR) (H _f)	FILTER AGGREGATE SIZE	MIN. THICKNESS OF FILTER AGGREGATE	MIN. CORE ROCK SIZE	WIDTH OF FILTER DAM (W _f)	SPILLWAY LENGTH (W ₂)	Q2 SPILLWAY DEPTH	EMBANKMENT HEIGHT (H ₂)
RFD-3D	C-3D	19m ²	5m	4m	MIN. 1.50m	0.3m	15mm	0.3m	225mm	3m	3m	0.3m	0.6m
RFD-3I	C-3I	53m ²	9m	6m	MIN. 1.50m	0.3m	15mm	0.3m	225mm	9m	9m	0.3m	0.6m

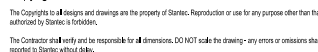


TYPICAL SECTION - CONSTRUCTED EARTH ABUTMENT OUTSIDE OF ROCK FILTER SECTION

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Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

			RB	HS	MH		2026.06.03
Authorised	Ref #	YYYY MM DD	Dwn	Dwn	Chrd	Appd	YYYY MM DD

Project No. _____

3047022

Drawing No.

01-CI-502

Scale at A1

AS SHOWN

Revision

1



1. REFER TO DWG 304702212-01-CI-502000 TO 304702212-01-CI-502001 FOR THE EROSION AND SEDIMENT CONTROL GENERAL NOTES AND LEGEND.
2. REFER TO DWG 304702212-01-CI-502002 TO 304702212-01-CI-502003 FOR THE SEDIMENT CONTROL CONCEPTUAL DEVICE SIZING DETAILS.
3. EVERY EFFORT SHOULD BE MADE TO TRAP SEDIMENT WITHIN THE WORK SITE, AND AS CLOSE AS PRACTICABLE TO ITS SOURCE.
4. FLOW CONTROL BERMS AND MINOR DIRTY WATER CATCH DRAINS SHOWN ALONG THE CONTOURS CAN BE SUBSTITUTED WITH MULCH BERMS IF SUITABLE WEED FREE MULCH MATERIAL IS AVAILABLE ON SITE.
5. IF INSUFFICIENT MULCH IS AVAILABLE TO CONSTRUCT THE FLOW CONTROL BERMS / BUNDS, THEN THE BERMS / BUNDS ARE TO BE CONSTRUCTED OF NON-DISPERSIVE MATERIALS, WITH THE OUTER FACING SLOPE TO BE STABILISED WITH A HYDRAULICALLY APPLIED SOIL BINDER OR SIMILAR EQUIVALENT.
6. RAINFALL / FLOW ACTIVATED AUTOMATIC FLOCCING SYSTEMS TO BE PROVIDED TO TREAT FLOWS ENTERING THE SEDIMENT BASIN INLET ZONE / FOREBAY. WHERE FLOW RATES INTO THE INLET ZONE EXCEED THE TREATMENT CAPACITY OF AVAILABLE FLOCCING SYSTEMS, THEN ADDITIONAL UPSTREAM STORAGE MAY BE REQUIRED TO LIMIT FLOW RATES ENTERING THE INLET ZONE / FOREBAY.
7. TO ASSIST WITH THE PERFORMANCE OF THE SEDIMENT BASIN, IN-LINE PERMEABLE INTERNAL BAFFLES CAN BE INCORPORATED ACROSS THE BASIN SETTLING ZONE PERPENDICULAR TO THE DIRECTION OF FLOW.
8. EXTEND OUTLET WEIR SCOUR PROTECTION FROM SEDIMENT BASIN / ROCK FILTER DAM SPILLWAYS AS REQUIRED TO PROVIDE A STABILISED OUTLET.
9. WHERE LESS THAN IDEAL SIZED TYPE 1 SEDIMENT CONTROL DEVICES (SUCH AS A SEDIMENT BASIN) HAVE BEEN INCORPORATED ON-SITE, AN INCREASED FOCUS ON MONITORING AND THE APPLICATION OF EROSION CONTROL MEASURES, SUCH AS SURFACE STABILISATION, IS TO BE IMPLEMENTED WITHIN THE CATCHMENT.
10. FOR CATCH DRAINS, PROVIDE CHECK DAM VELOCITY CONTROLS AT REGULAR SPACINGS. CHANNEL LININGS TO BE UTILISED IN EARTH LINED CATCH DRAINS WITH FLOW VELOCITIES $>0.6m/s$ AND / OR WHERE LONGITUDINAL GRADE $>5\%$.
11. IF IMMINENT HEAVY RAINFALL IS FORECAST PRIOR TO STABILISATION OF THE EARTHWORKS AREAS, THEN THE SUB-CONTRACTOR SHOULD CONSIDER TEMPORARY STABILISATION OF THE EXPOSED SOIL AREAS UTILISING APPROPRIATE EROSION CONTROL METHODS, SUCH AS HYDRAULICALLY APPLIED STABILISERS OR APPROPRIATELY ANCHORED GEOSYNTHETIC LININGS. METHODS FOR STABILISATION WILL BE DEPENDENT ON THE LOCATION AND ANTICIPATED TYPE OF RUNOFF EXPOSURE (I.E. SHEET FLOW OR CONCENTRATED FLOW).

EXISTING LOT BOUNDARY
EXISTING CONTOURS

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES HAVE
BEEN INTERPOLATED FROM GIS DATA OR KNOWN
POSITIONS OF VALVES, MANHOLES ETC. OR
INFORMATION SUPPLIED BY SERVICE AUTHORITIES.
NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY
OF THE INTERPOLATED INFORMATION SUPPLIED.
ENSURE ALL SERVICES ARE ACCURATELY
LOCATED PRIOR TO COMMENCEMENT OF WORK

[illegible]

Issue Status

S4

SUITABLE FOR ROL APPROVAL

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Coordinate System
FS94
Datum
AHD

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Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

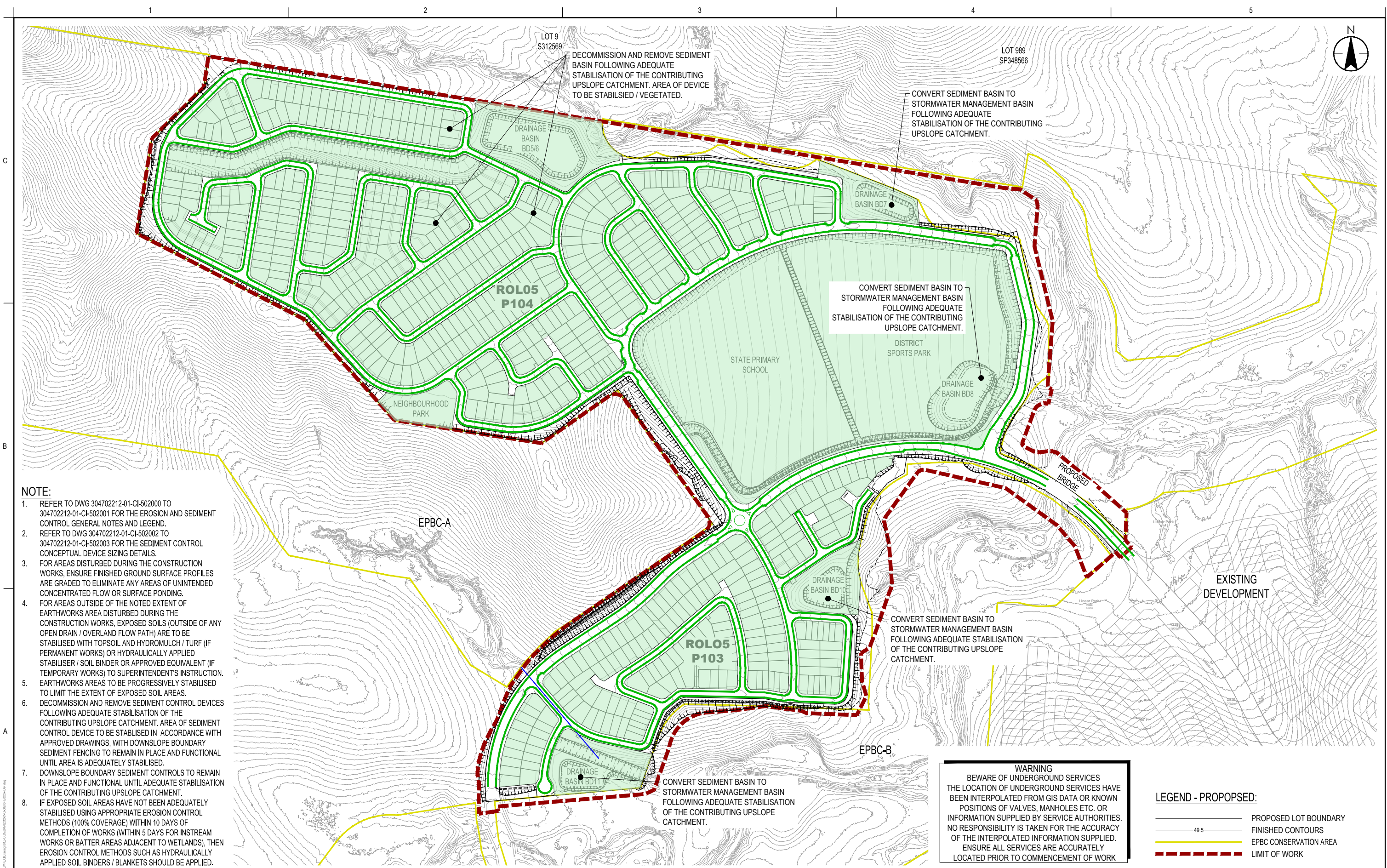
Author(s)	Ref.#	XXXX MMDD	RB	HS	MH	Age	2026.06.0
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Title CONCEPT EROSION AND
SEDIMENT CONTROL PLAN
PHASE 2

Project No.
304702212

Drawing No.
01-CI-50200

Scale at A1
AS SHOWN
Revision



NOTE:

1. REFER TO DWG 304702212-01-CI-502000 TO 304702212-01-CI-502001 FOR THE EROSION AND SEDIMENT CONTROL GENERAL NOTES AND LEGEND.
2. REFER TO DWG 304702212-01-CI-502002 TO 304702212-01-CI-502003 FOR THE SEDIMENT CONTROL CONCEPTUAL DEVICE SIZING DETAILS.
3. FOR AREAS DISTURBED DURING THE CONSTRUCTION WORKS, ENSURE FINISHED GROUND SURFACE PROFILES ARE GRADED TO ELIMINATE ANY AREAS OF UNINTENDED CONCENTRATED FLOW OR SURFACE PONDING.
4. FOR AREAS OUTSIDE OF THE NOTED EXTENT OF EARTHWORKS AREA DISTURBED DURING THE CONSTRUCTION WORKS, EXPOSED SOILS (OUTSIDE OF ANY OPEN DRAIN / OVERLAND FLOW PATH) ARE TO BE STABILISED WITH TOPSOIL AND HYDROMULCH / TURF (IF PERMANENT WORKS) OR HYDRAULICALLY APPLIED STABILISER / SOIL BINDER OR APPROVED EQUIVALENT (IF TEMPORARY WORKS) TO SUPERINTENDENT'S INSTRUCTION.
5. EARTHWORKS AREAS TO BE PROGRESSIVELY STABILISED TO LIMIT THE EXTENT OF EXPOSED SOIL AREAS.
6. DECOMMISSION AND REMOVE SEDIMENT CONTROL DEVICES FOLLOWING ADEQUATE STABILISATION OF THE CONTRIBUTING UPSLOPE CATCHMENT. AREA OF SEDIMENT CONTROL DEVICE TO BE STABILISED IN ACCORDANCE WITH APPROVED DRAWINGS, WITH DOWNSLOPE BOUNDARY SEDIMENT FENCING TO REMAIN IN PLACE AND FUNCTIONAL UNTIL AREA IS ADEQUATELY STABILISED.
7. DOWNSLOPE BOUNDARY SEDIMENT CONTROLS TO REMAIN IN PLACE AND FUNCTIONAL UNTIL ADEQUATE STABILISATION OF THE CONTRIBUTING UPSLOPE CATCHMENT.
8. IF EXPOSED SOIL AREAS HAVE NOT BEEN ADEQUATELY STABILISED USING APPROPRIATE EROSION CONTROL METHODS (100% COVERAGE) WITHIN 10 DAYS OF COMPLETION OF WORKS (WITHIN 5 DAYS FOR INSTREAM WORKS OR BATTER AREAS ADJACENT TO WETLANDS), THEN EROSION CONTROL METHODS SUCH AS HYDRAULICALLY APPLIED SOIL BINDERS / BLANKETS SHOULD BE APPLIED.

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM GIS DATA OR KNOWN POSITIONS OF VALVES, MANHOLES ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK

LEGEND - PROPOSED:

- PROPOSED LOT BOUNDARY
- 49.5 FINISHED CONTOURS
- EPBC CONSERVATION AREA
- LIMIT OF WORK

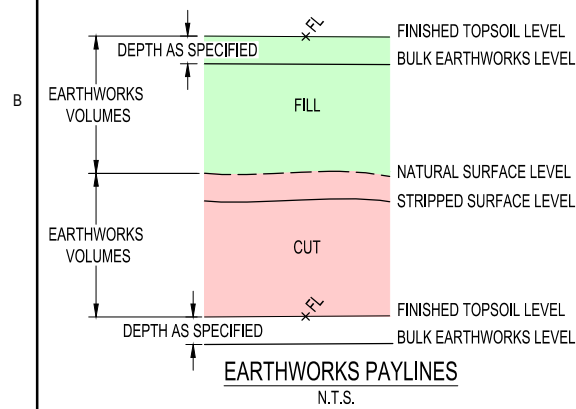
1:2500 50 0 50 100 A1 1:5000 A3	<table><tr><td>1</td><td>ISSUED FOR EDO APPROVAL</td><td>RB</td><td>MH</td><td>2026.06.03</td></tr><tr><td>Issued/Revision</td><td>By</td><td>Appd</td><td>YYYY.MM.DD</td><td></td></tr></table>	1	ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03	Issued/Revision	By	Appd	YYYY.MM.DD		Issue Status S4 SUITABLE FOR ROL APPROVAL This document is suitable only for the purpose noted above. Use of this document for any other purpose is not permitted.	Coordinate System FS94 Datum AHD Colour Disclaimer This drawing has been documented in colour. This drawing is required to be printed in colour. Failure to do so may result in loss of information. Black and white printing may be used if specific black and white documents have been obtained from Stantec.	Copyright Reserved The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorised by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions, COORDINATE scale the drawing - any errors or omissions shall be reported to Stantec without delay.	Client/Project Logo mirvac	Client/Project KINDIRA - MONARCH GLEN MIRVAC MONARCH GLEN ROLO5 LOT 2 ON SP351245 KINDIRA - WYATT ROAD, MONARCH GLEN <table><tr><td>Authorised</td><td>Ref #</td><td>YYYY.MM.DD</td><td>Dwn.</td><td>HS</td><td>MH</td><td>2026.06.03</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Authorised	Ref #	YYYY.MM.DD	Dwn.	HS	MH	2026.06.03								Title CONCEPT EROSION AND SEDIMENT CONTROL PLAN PHASE 4 Project No. 304702212 Drawing No. 01-CI-502007 Scale at A1 AS SHOWN Revision 1
1	ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03																											
Issued/Revision	By	Appd	YYYY.MM.DD																												
Authorised	Ref #	YYYY.MM.DD	Dwn.	HS	MH	2026.06.03																									

LEGEND - PROPOSED:

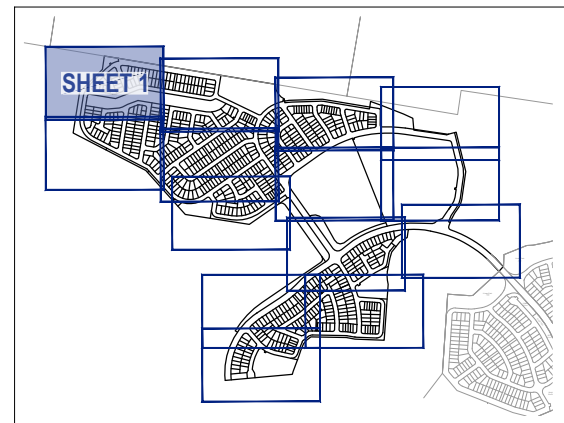
- ROAD CENTERLINE
- PROPOSED LOT BOUNDARY
- FINISHED CONTOURS
- TOP OF BATTER
- TOE OF BATTER
- CHANGE OF GRADE
- FILL GRADE LINE/PAD LEVEL
- PROPOSED RETAINING WALL (0.45m - 1.5m HIGH)
- PROPOSED RETAINING WALL (1.5m - 2.0m HIGH)
- PROPOSED RETAINING WALL (2.0m - 2.5m HIGH)
- PROPOSED RETAINING WALL (2.5m - 3.0m HIGH)
- FUTURE DRIVEWAY LOCATION
- ZERO LOT LINE
- PAD FINISHED SURFACE LEVEL
- LIMIT OF WORK
- AREA IN CUT
- AREA IN FILL
- EPBC-A
- EPBC-B
- EXISTING DEVELOPMENT
- PROPOSED PAD MOUNT TRANSFORMER

LEGEND - EXISTING:

- EXISTING LOT BOUNDARY

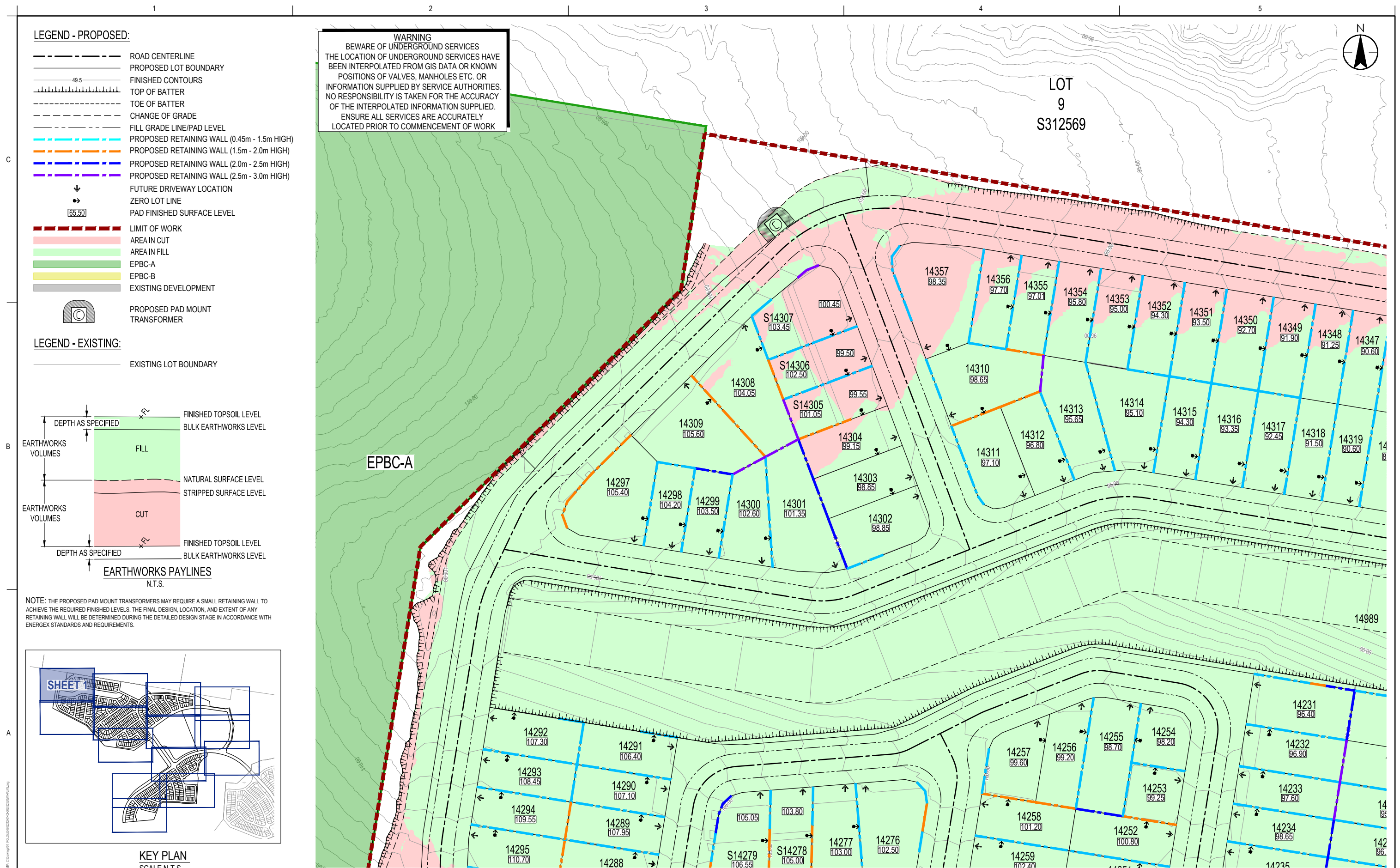


NOTE: THE PROPOSED PAD MOUNT TRANSFORMERS MAY REQUIRE A SMALL RETAINING WALL TO ACHIEVE THE REQUIRED FINISHED LEVELS. THE FINAL DESIGN, LOCATION, AND EXTENT OF ANY RETAINING WALL WILL BE DETERMINED DURING THE DETAILED DESIGN STAGE IN ACCORDANCE WITH ENERGEX STANDARDS AND REQUIREMENTS.



KEY PLAN
SCALE N.T.S.

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM GIS DATA OR KNOWN POSITIONS OF VALVES, MANHOLES ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK



1:500 10 5 0 10 20 A1
1:1000

Issue/Revision	By	Appd	YYYY.MM.DD
1	ISSUED FOR EDO APPROVAL	RB	MH 2026.06.03

Issue Status
S4
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Datum
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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROLO5 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

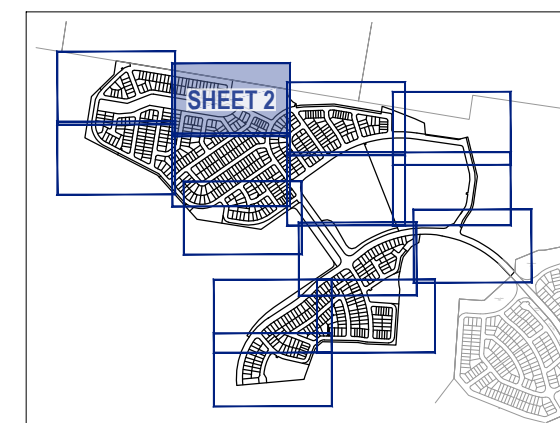
Authorised	Ref #	YYYY.MM.DD	Dwn	HS	MH	2026.06.03	Appd	YYYY.MM.DD
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Title **EARTHWORKS PLAN
SHEET 1**

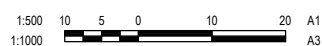
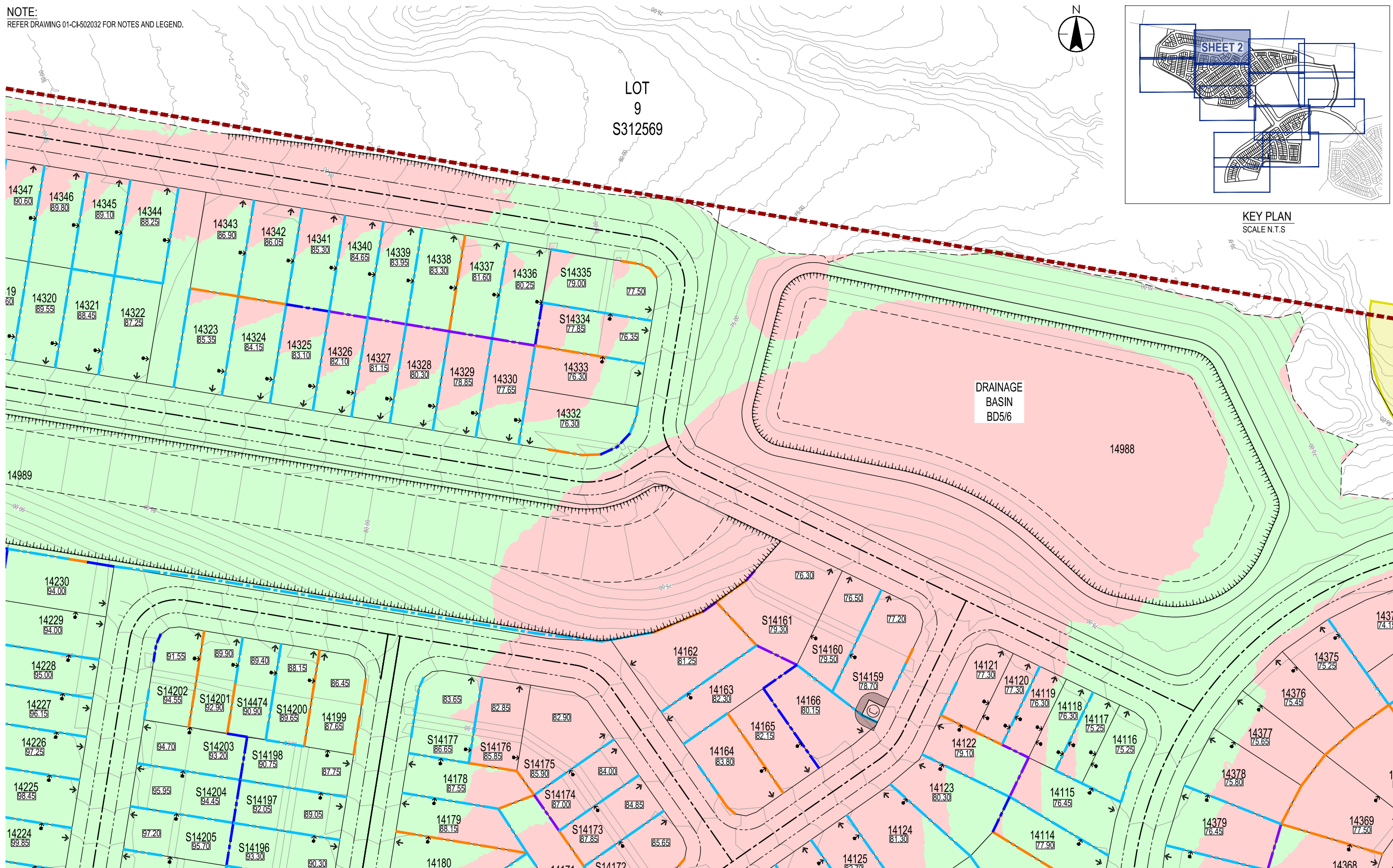
Project No.
304702212
Drawing No.
01-CI-502032

Scale at A1
AS SHOWN
Revision
1

NOTE:
REFER DRAWING 01-CI-502032 FOR NOTES AND LEGEND.



KEY PLAN
SCALE N.T.S.

[illegible]

Issue Status

S4

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Datum
AHD

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

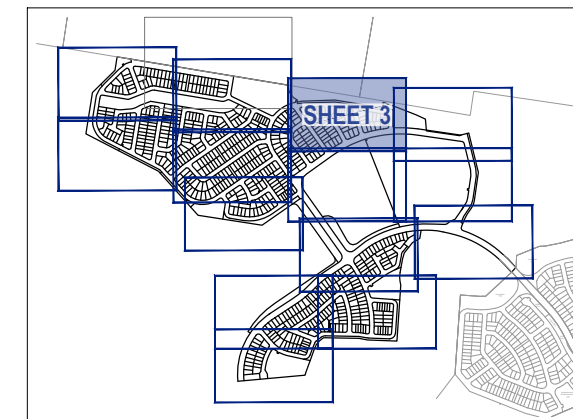
Authenticated	Ref #	YYYY-MM-DD	RB	HS	MH		2026.06.1
			Due	Date	Club	Send	YYYY-MM-DD

Title **EARTHWORKS PLAN**
SHEET 2

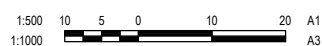
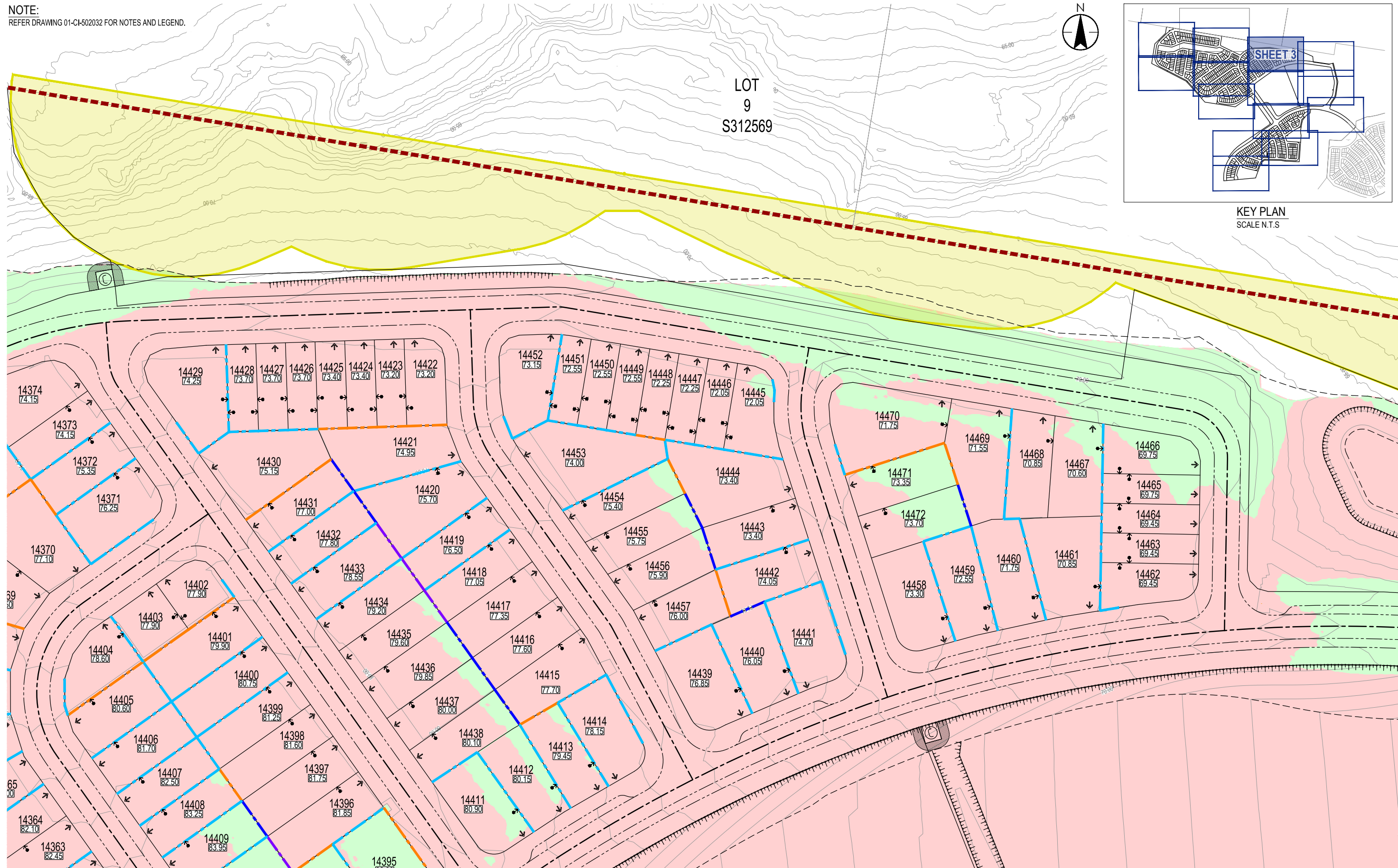
Project No.	304702212
Drawing No.	01-CI-502033

Scale at A1
AS SHOWN
Revision

NOTE:
REFER DRAWING 01-CI-502032 FOR NOTES AND LEGEND.



KEY PLAN
SCALE N.T.S

[illegible]

Issue Status

S4

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Coordinate System
FS94
Datum
AHD

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authenticated	Ref #	YYYY-MM-DD	RB	HS	MH		2026.06.1
			Due	Date	Club	Send	YYYY-MM-DD

Title **EARTHWORKS PLAN**
SHEET 3

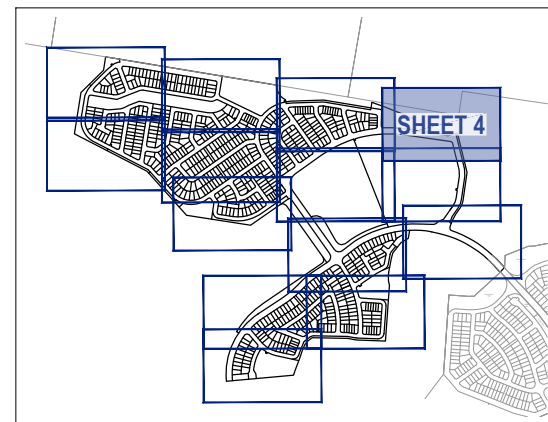
Project No.
304702212

Drawing No.
01-CI-50203

Scale at A1
AS SHOWN
Revision
1

NOTE:
REFER DRAWING 01-CI-502032 FOR NOTES AND LEGEND.

LOT
989
SP348566



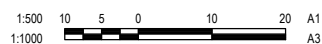
KEY PLAN
SCALE N.T.S



863

DRAINAGE
BASIN
BD7

EPBC-B

[illegible]

Issue Status

S4

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Dwn	Discn	Chkd	Appd	YYYY MM DD

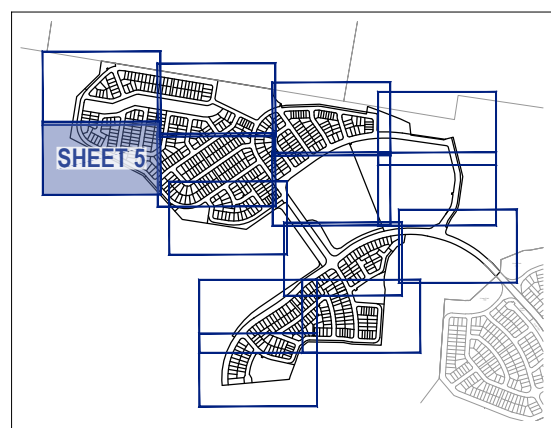
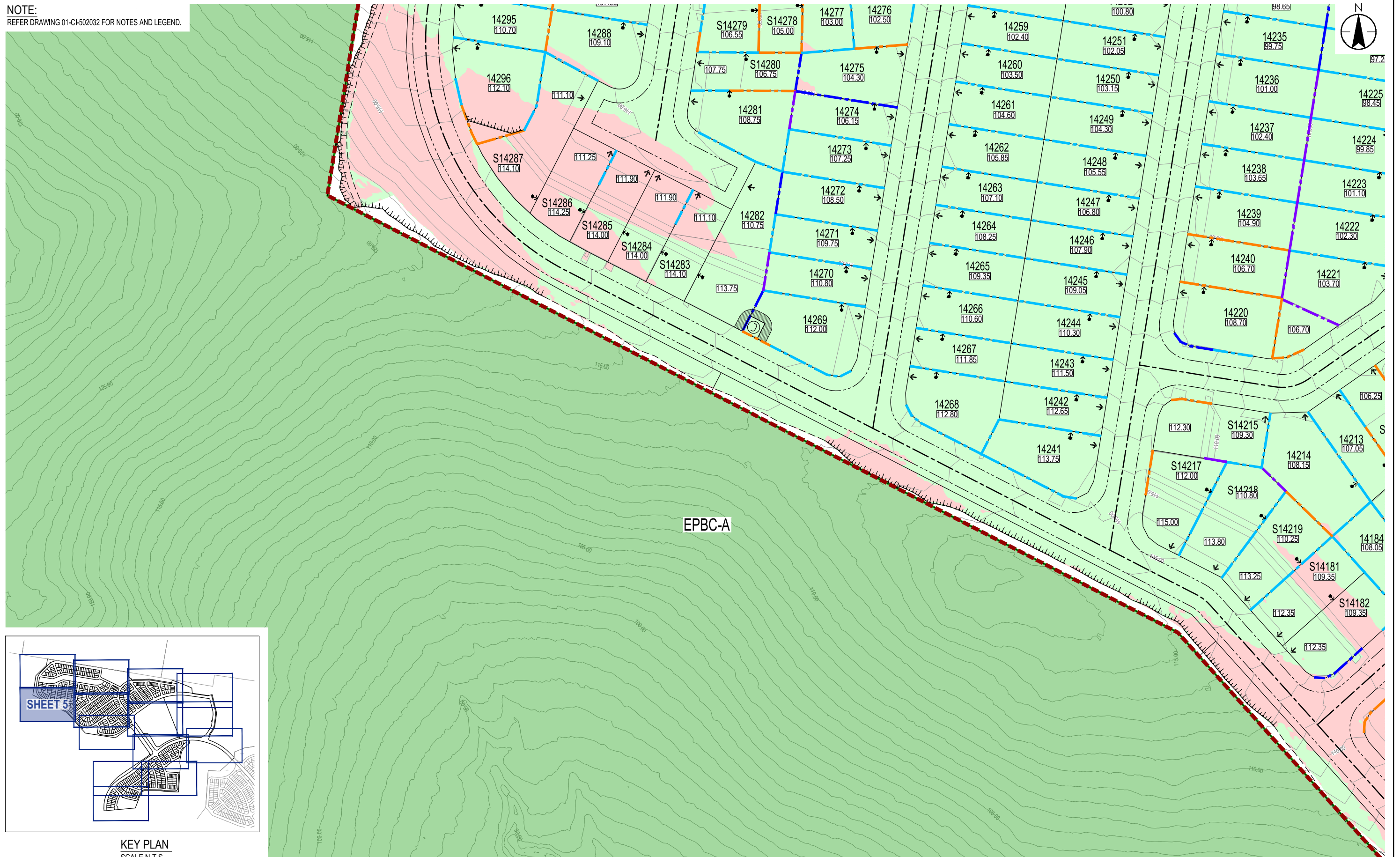
Title EARTHWORKS PLAN
SHEET 4

Project No.
304702212

Drawing No.
01-CI-502035

scale at A1
S SHOWN
revision

NOTE:
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KEY PLAN
SCALE N.T.S

[illegible]

Issue Status

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Datum
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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Don	Discn	Chld	Appd	YYYY MM DD

Title EARTHWORKS PLAN
SHEET 5

Project No.
304702212

Drawing No.
01-CI-502036

scale at A1
S SHOWN
revision

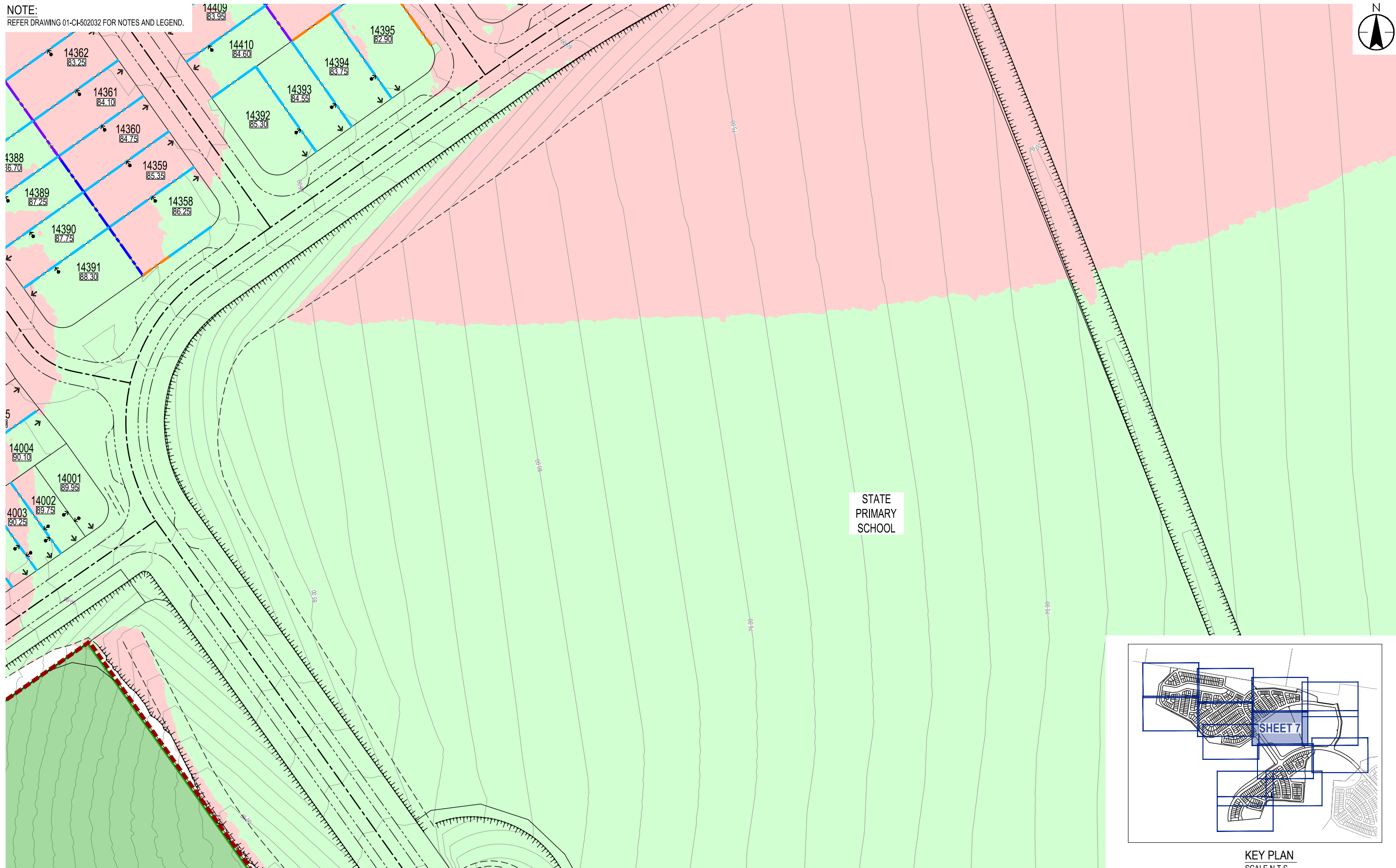
NOTE:
REFER DRAWING 01-CI-502032 FOR NOTES AND LEGEND.



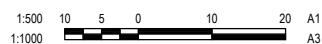
C

B

A



KEY PLAN
SCALE N.T.S

[illegible]

Issue Status

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Datum
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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.0
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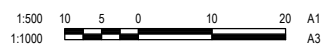
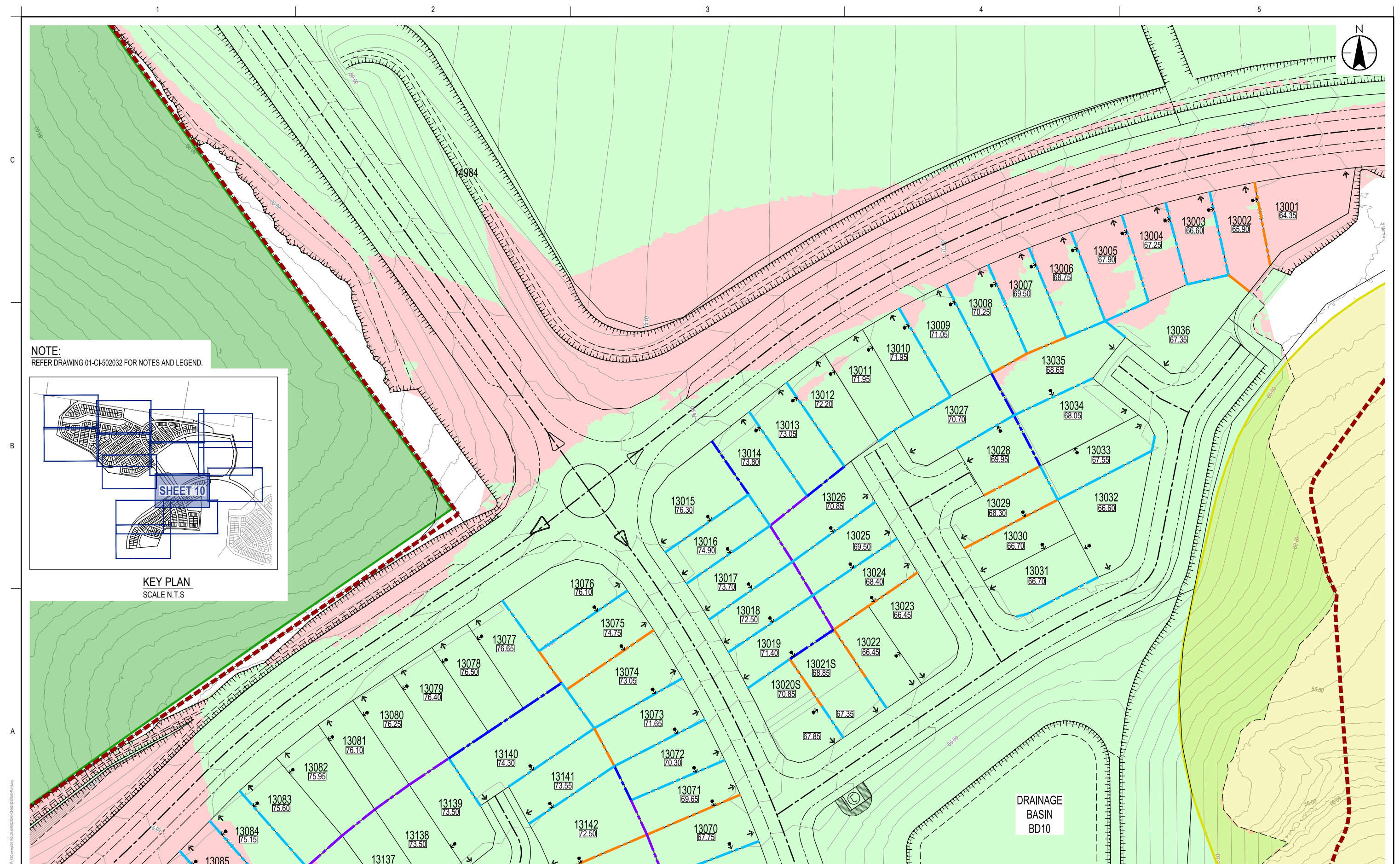
Title EARTHWORKS PLAN
SHEET 7

Project No.
304702212

Drawing No.
01-CI-502038

Scale at A1
AS SHOWN

Revision
1

[illegible]

Issue Status

S4

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FS94
Datum
AHD

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Dwn	Discn	Chkd	Appd	YYYY MM DD

Title EARTHWORKS PLAN
SHEET 10

Project No.
304702212

Drawing No.
01-CI-502041

scale at A1
AS SHOWN
revision

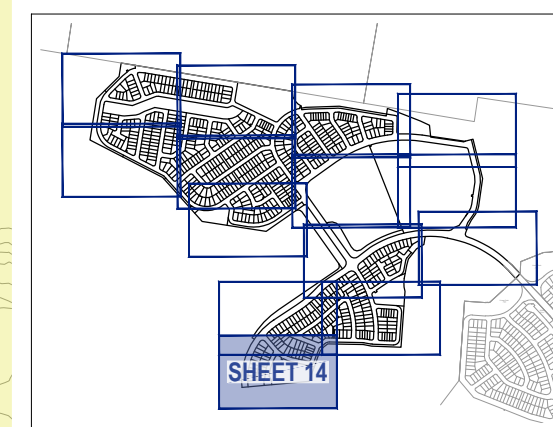
NOTE:
REFER DRAWING 01-CI-502032 FOR NOTES AND LEGEND.



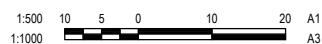
P105

DRAINAGE
BASIN
BD11

EPBC-B



KEY PLAN
SCALE N.T.S

[illegible]

Issue Status

S4

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Coordinate System
FS94
Datum
AHD

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

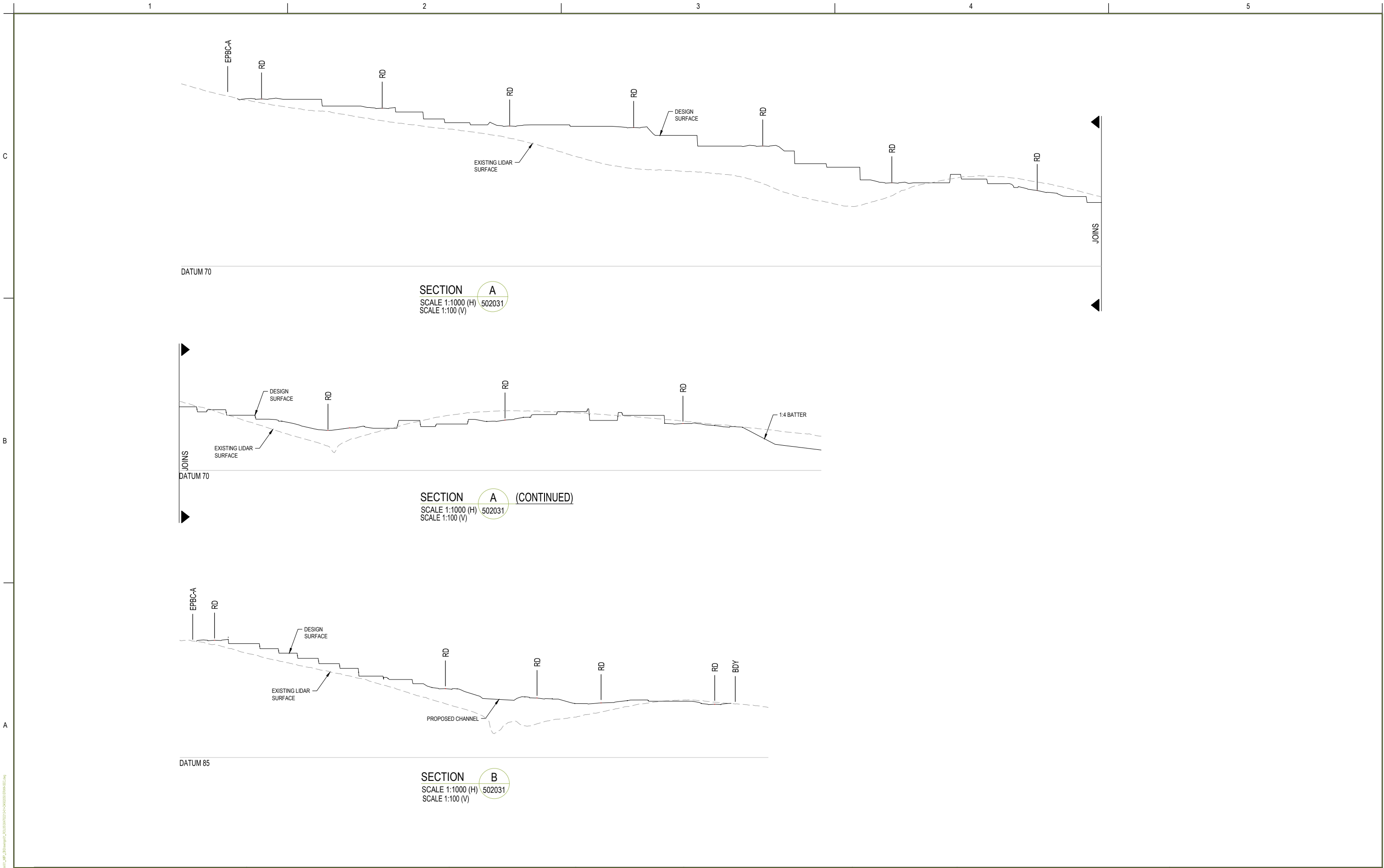
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			Dwn	Discn	Chkd	Appd

Title EARTHWORKS PLAN
SHEET 14

Project No.
304702212

Drawing No.
01-CI-502045

Scale at A1
AS SHOWN
Revision



1:1000

10

0

10

20

30

40

50

A1

1:2000

10

0

10

20

30

40

50

A3

1	ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03
Issued/Revision		By	Appt	YYYY.MM.DD

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Coordinate System

FS94

Datum

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Client/Project Logo

Client/Project

KINDIRA - MONARCH GLEN

MIRVAC MONARCH GLEN

ROL05 LOT 2 ON SP351245

KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised

Ref #

YYYY.MM.DD

Dwn.

Dgn.

Chkd.

Appt.

YYYY.MM.DD

Title

EARTHWORKS SITE SECTIONS

SHEET 1

Project No.

304702212

Drawing No.

01-CI-502050

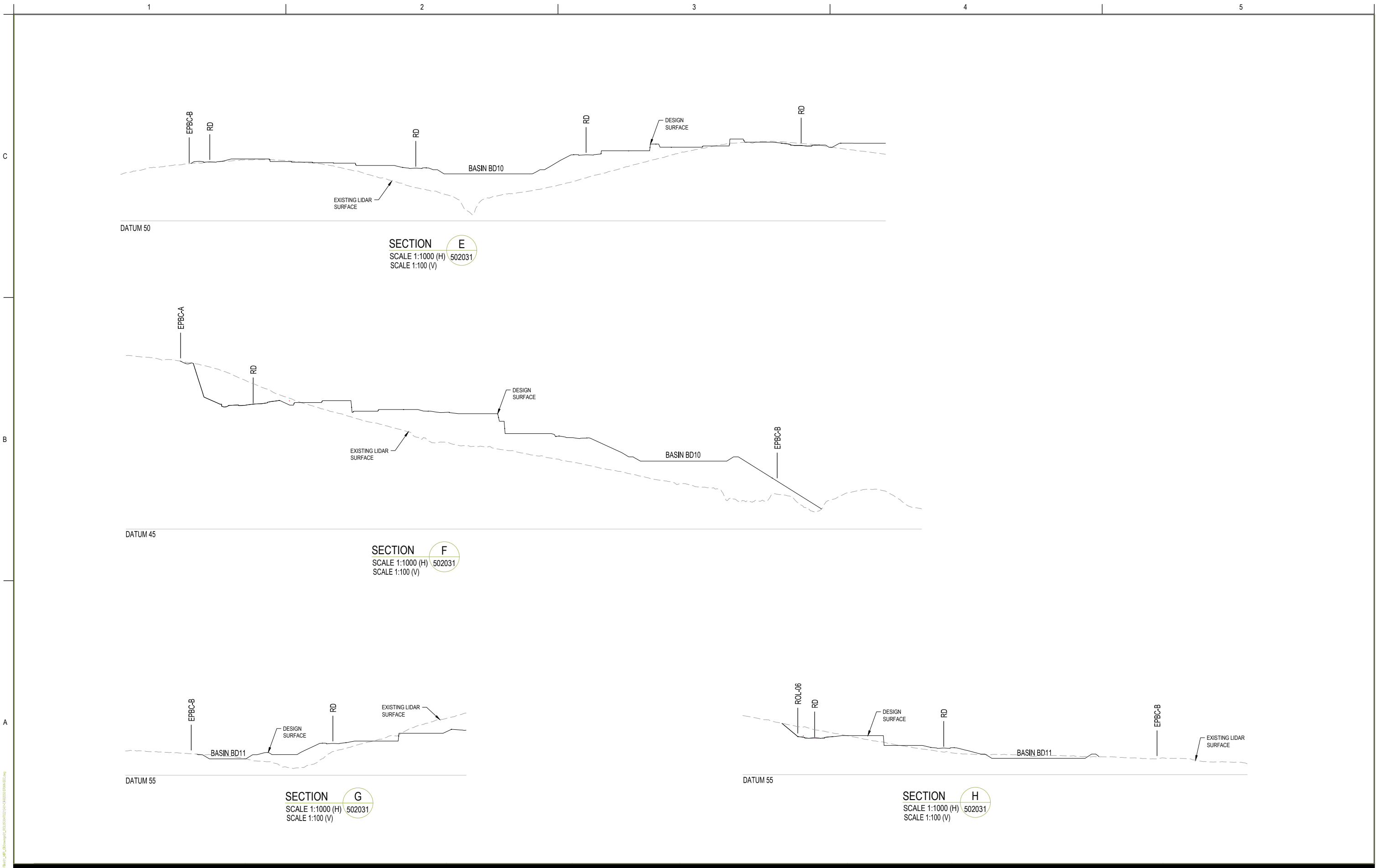
Scale at A1

AS SHOWN

Revision

1

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Drawing Title: EARTHWORKS SITE SECTIONS
Drawing No: 01-CI-502050



1:1000 10 0 10 20 30 40 50 A1

1:2000 A3

1	ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03
Issued/Revision		By	Appt	YYYY.MM.DD

Issue Status

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Client/Project Logo

Client/Project

KINDIRA - MONARCH GLEN

MIRVAC MONARCH GLEN

ROL05 LOT 2 ON SP351245

KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised

Ref #

YYYY.MM.DD

Dwn.

Design

Chkd.

Appt.

2026.06.03

YYYY.MM.DD

Title

EARTHWORKS SITE SECTIONS

SHEET 3

Project No.

304702212

Drawing No.

01-CI-502052

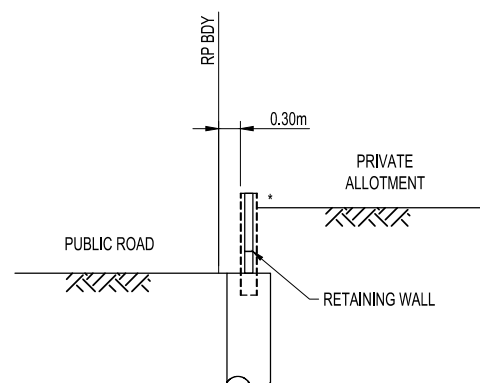
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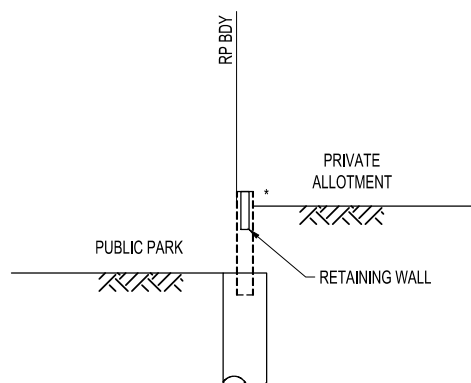
Revision

1

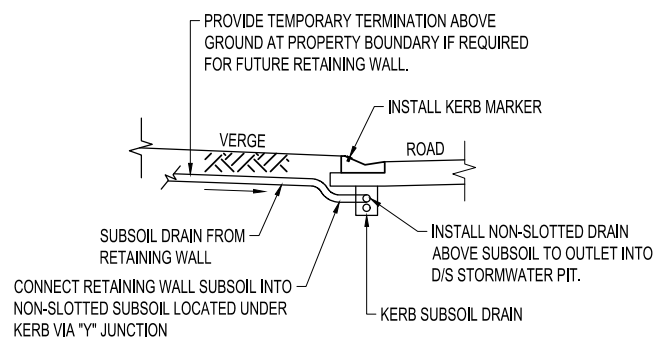
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Drawing Title: Earthworks Site Sections
Drawing No: 01-CI-502052



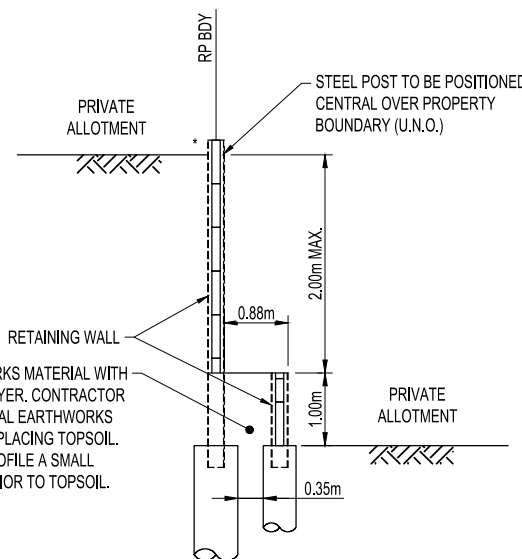
TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE LOT
LEVEL IS HIGHER
SCALE N.T.S.



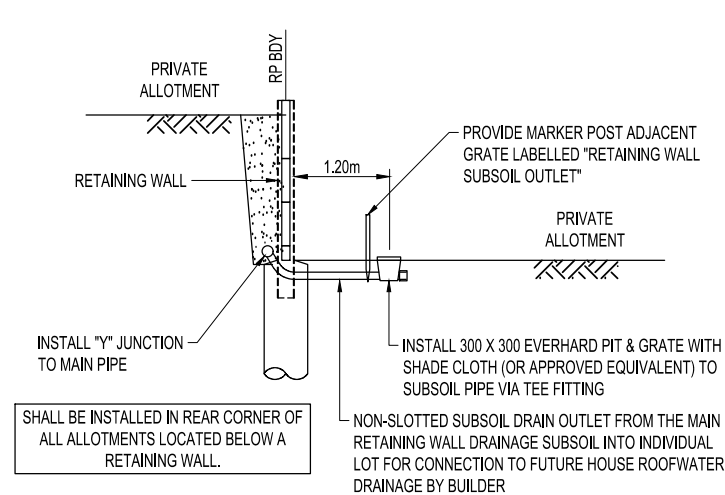
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE LOT
LEVEL IS HIGHER
SCALE N.T.S.



SHALL BE INSTALLED FOR ALL
RETAINING WALLS LOCATED ON
INTERALLOTMENT BOUNDARIES



TYPICAL RETAINING WALL DETAIL -
INTERALLOTMENT
2m - 3.0m MAX HIGH
SCALE 1:5



NON-SLOTTED SUBSOIL DRAIN OUTLET FROM THE MAIN RETAINING WALL
DRAINAGE SUBSOIL INTO INDIVIDUAL LOT FOR CONNECTION TO FUTURE
HOUSE ROOFWATER DRAINAGE BY BUILDER.

TYPICAL RETAINING WALL SUBSOIL
OUTLET TO ALLOTMENTS
SCALE N.T.S.

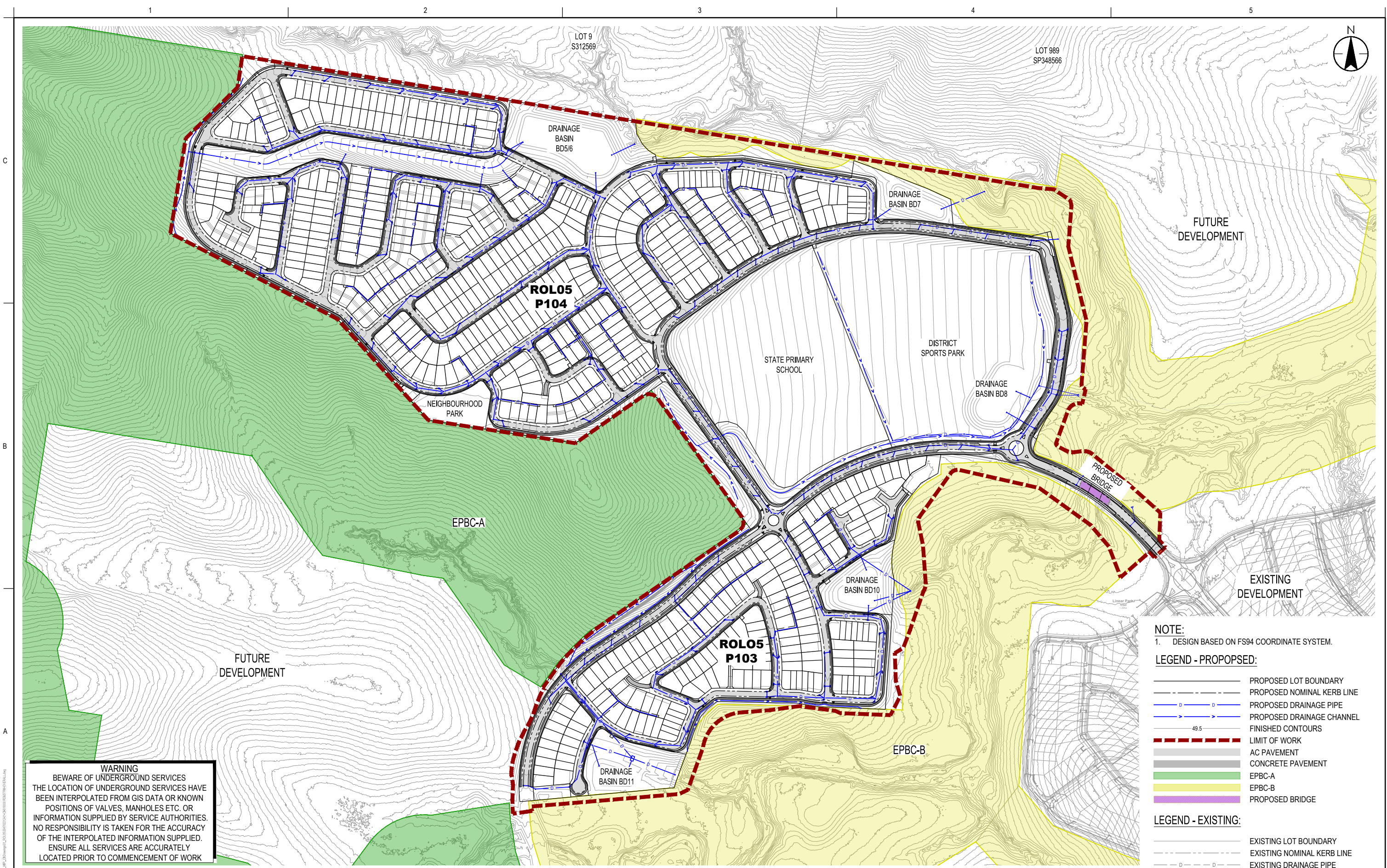
FENCE BRACKETS:
PROVIDE FENCE BRACKETS TO ALL RETAINING WALLS. NO BRACKETS TO BE PROVIDED WITHIN THE FIRST 5m FROM FRONT BOUNDARY FOR INTER-ALLOTMENT RETAINING WALLS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF SERVICES PRIOR TO CONSTRUCTION. ALSO TO OBTAIN THE REQUIRED APPROVALS AND PERMITS.



PLEASE CONTACT COUNCIL'S ARBORIST
PRIOR TO ANY CONSTRUCTION FOR ADVICE
ON TREE ROOT PROTECTION IN THE VICINITY
OF THE WORKS TO BE CARRIED OUT.

Project No. 304702212	Scale at A1 AS SHOWN
Drawing No. 01-CI-502080	Revision 1



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES HAVE
BEEN INTERPOLATED FROM GIS DATA OR KNOWN
POSITIONS OF VALVES, MANHOLES ETC. OR
INFORMATION SUPPLIED BY SERVICE AUTHORITIES.
NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY
OF THE INTERPOLATED INFORMATION SUPPLIED.
ENSURE ALL SERVICES ARE ACCURATELY
LOCATED PRIOR TO COMMENCEMENT OF WORK

- NOTE:**
1. DESIGN BASED ON FS94 COORDINATE SYSTEM.
- LEGEND - PROPOSED:**
- PROPOSED LOT BOUNDARY
 - PROPOSED NOMINAL KERB LINE
 - PROPOSED DRAINAGE PIPE
 - PROPOSED DRAINAGE CHANNEL
 - FINISHED CONTOURS
 - 49.5
 - LIMIT OF WORK
 - AC PAVEMENT
 - CONCRETE PAVEMENT
 - EPBC-A
 - EPBC-B
 - PROPOSED BRIDGE
- LEGEND - EXISTING:**
- EXISTING LOT BOUNDARY
 - EXISTING NOMINAL KERB LINE
 - EXISTING DRAINAGE PIPE

1:2500 50 0 50 100 A1
1:5000

1	ISSUED FOR EDC APPROVAL	RB	MH	2026.06.03
Issued/Revision	By	Appt	YYYY.MM.DD	

Issue Status
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Datum
AHD

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Client/Project Logo

mirvac

Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

RB	HS	MH	2026.06.03
Authorised	Ref #	YYYY.MM.DD	Dwn. Desgn. Chkd. Appt. YYYY.MM.DD

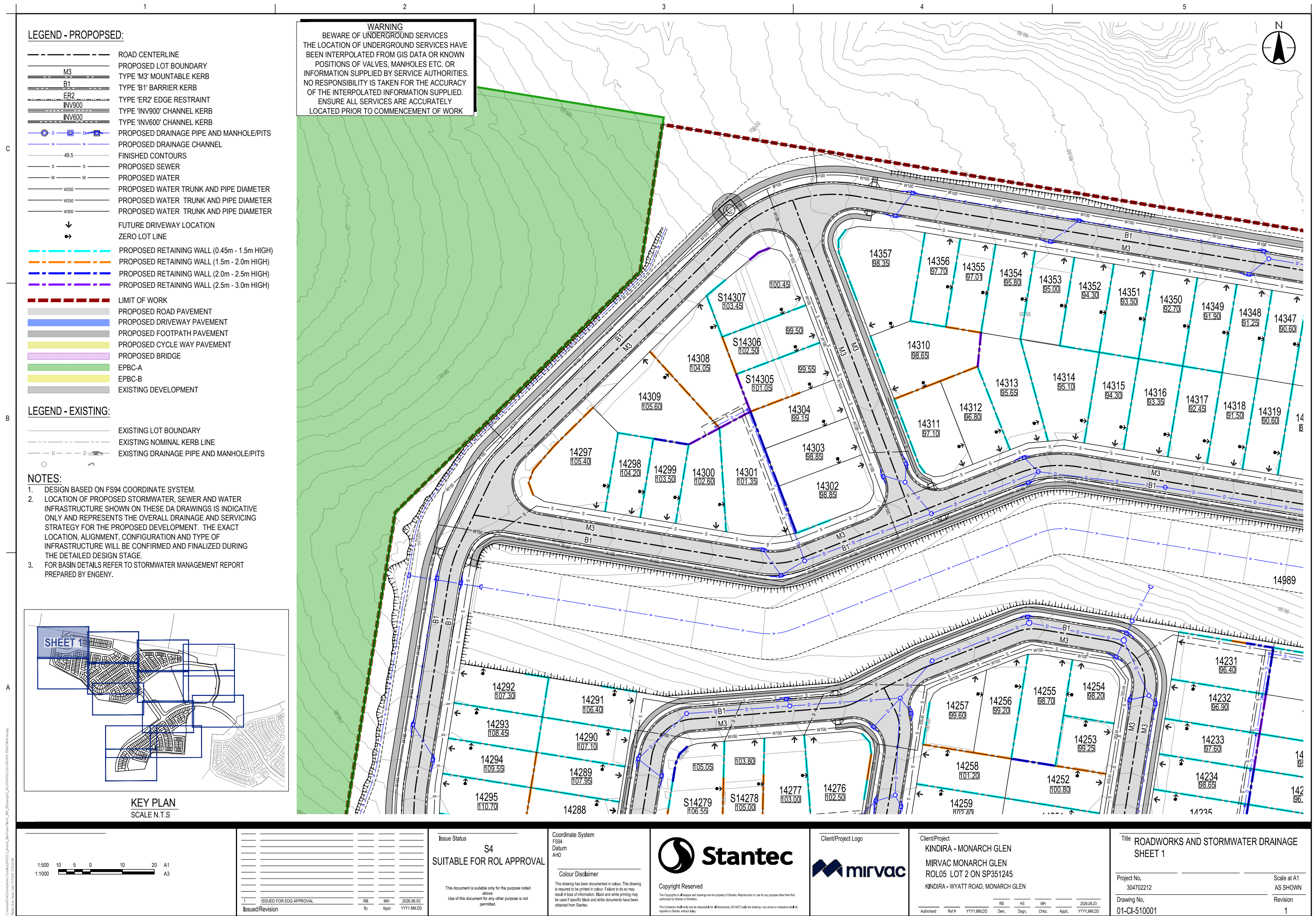
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Project No.
304702212

Drawing No.
01-CI-510000

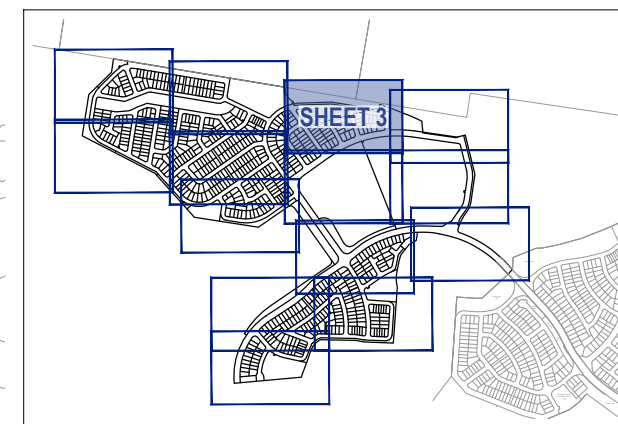
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AS SHOWN

Revision
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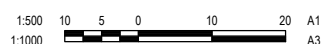
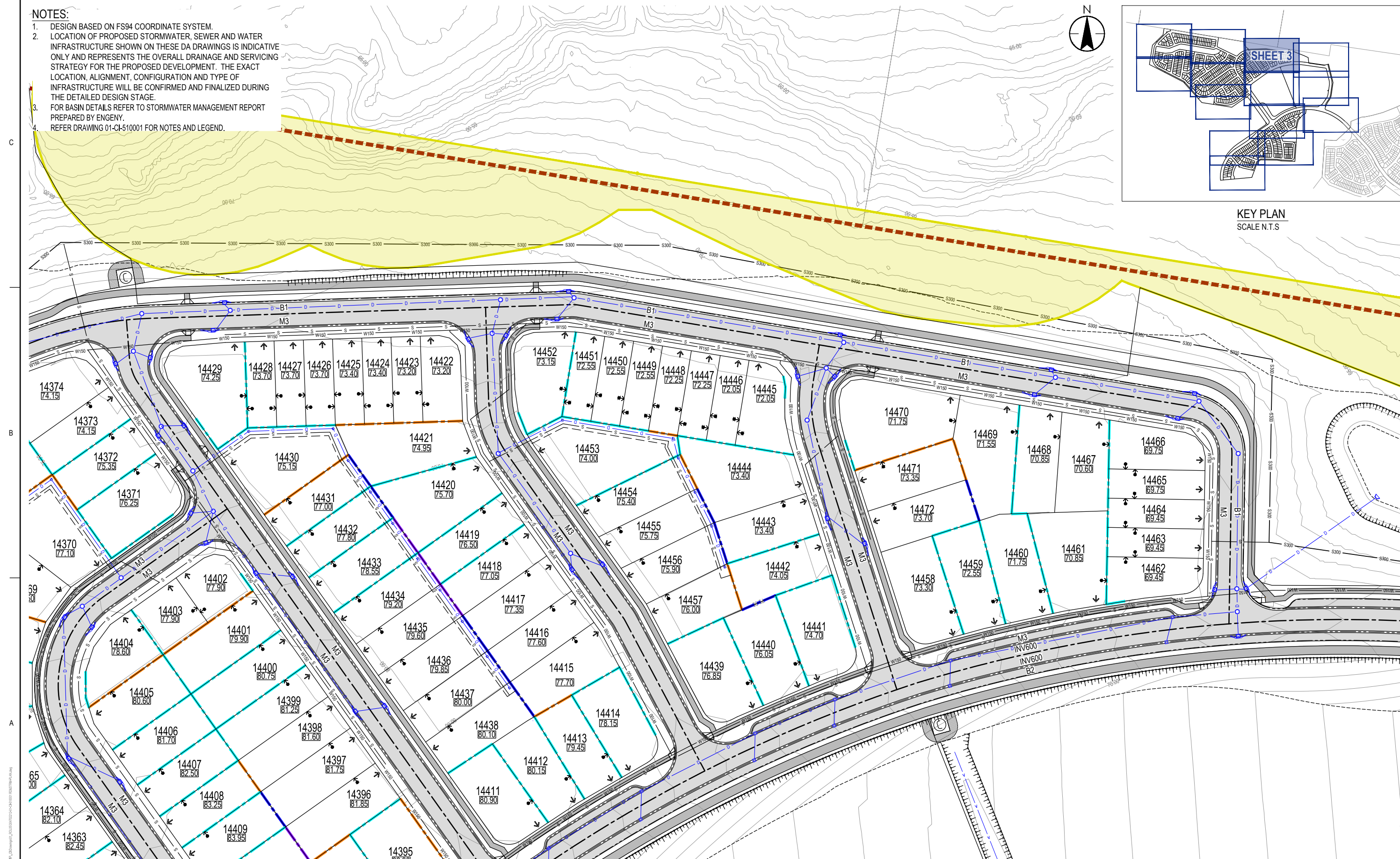




1. DESIGN BASED ON FS94 COORDINATE SYSTEM.
2. LOCATION OF PROPOSED STORMWATER, SEWER AND WATER INFRASTRUCTURE SHOWN ON THESE DA DRAWINGS IS INDICATIVE ONLY AND REPRESENTS THE OVERALL DRAINAGE AND SERVICING STRATEGY FOR THE PROPOSED DEVELOPMENT. THE EXACT LOCATION, ALIGNMENT, CONFIGURATION AND TYPE OF INFRASTRUCTURE WILL BE CONFIRMED AND FINALIZED DURING THE DETAILED DESIGN STAGE.
3. FOR BASIN DETAILS REFER TO STORMWATER MANAGEMENT REPORT PREPARED BY ENGNY.
4. REFER DRAWING 01-CI-510001 FOR NOTES AND LEGEND.



KEY PLAN
SCALE N.T.S

[illegible]

Issue Status

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Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authenticated	Ref #	YYYY-MM-DD	RB	HS	MH		2026.06.1
			Due	Date	Club	Send	YYYY-MM-DD

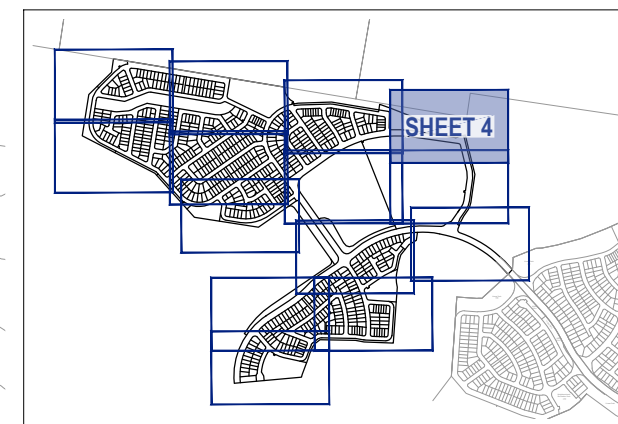
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SHEET 3

Project No.
304702212

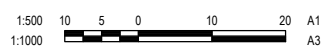
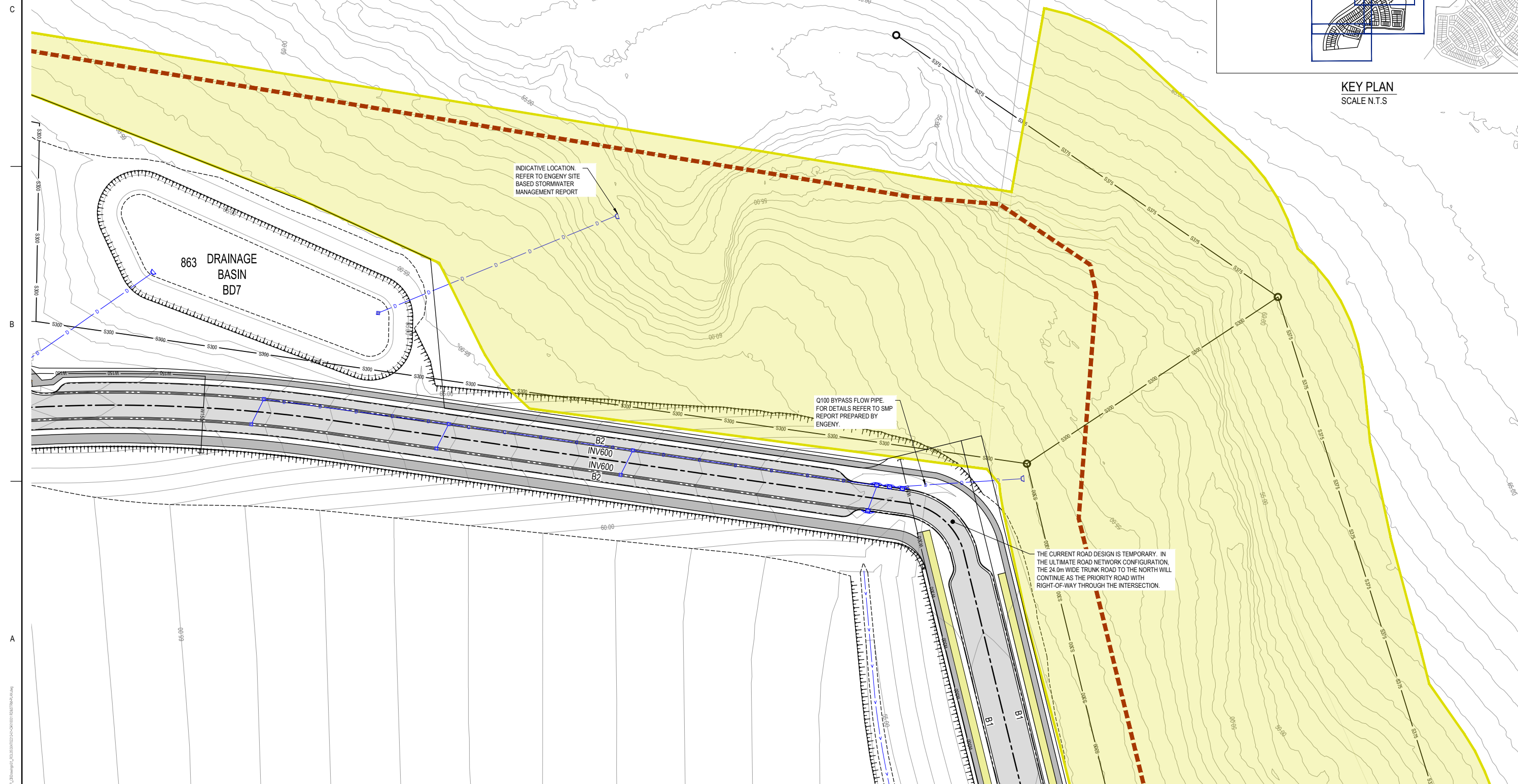
Drawing No.
01-CI-51000

Scale at A1 AS SHOWN
Revision

1. DESIGN BASED ON FS94 COORDINATE SYSTEM.
2. LOCATION OF PROPOSED STORMWATER, SEWER AND WATER INFRASTRUCTURE SHOWN ON THESE DA DRAWINGS IS INDICATIVE ONLY AND REPRESENTS THE OVERALL DRAINAGE AND SERVICING STRATEGY FOR THE PROPOSED DEVELOPMENT. THE EXACT LOCATION, ALIGNMENT, CONFIGURATION AND TYPE OF INFRASTRUCTURE WILL BE CONFIRMED AND FINALIZED DURING THE DETAILED DESIGN STAGE.
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KEY PLAN
SCALE N.T.S

[illegible]

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Client/Project
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MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authenticated	Ref. #	YYYYMMDD	RB	HS	MH		2026.06.0
			Date	Date	Child	Appt	YYYYMMDD

Title ROADWORKS AND STORMWATER DRAINAGE
SHEET 4

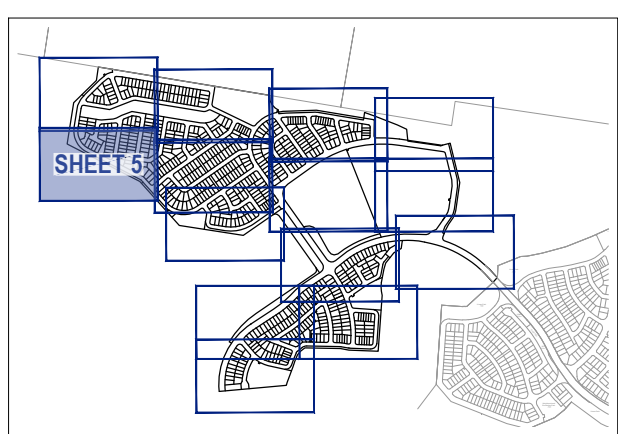
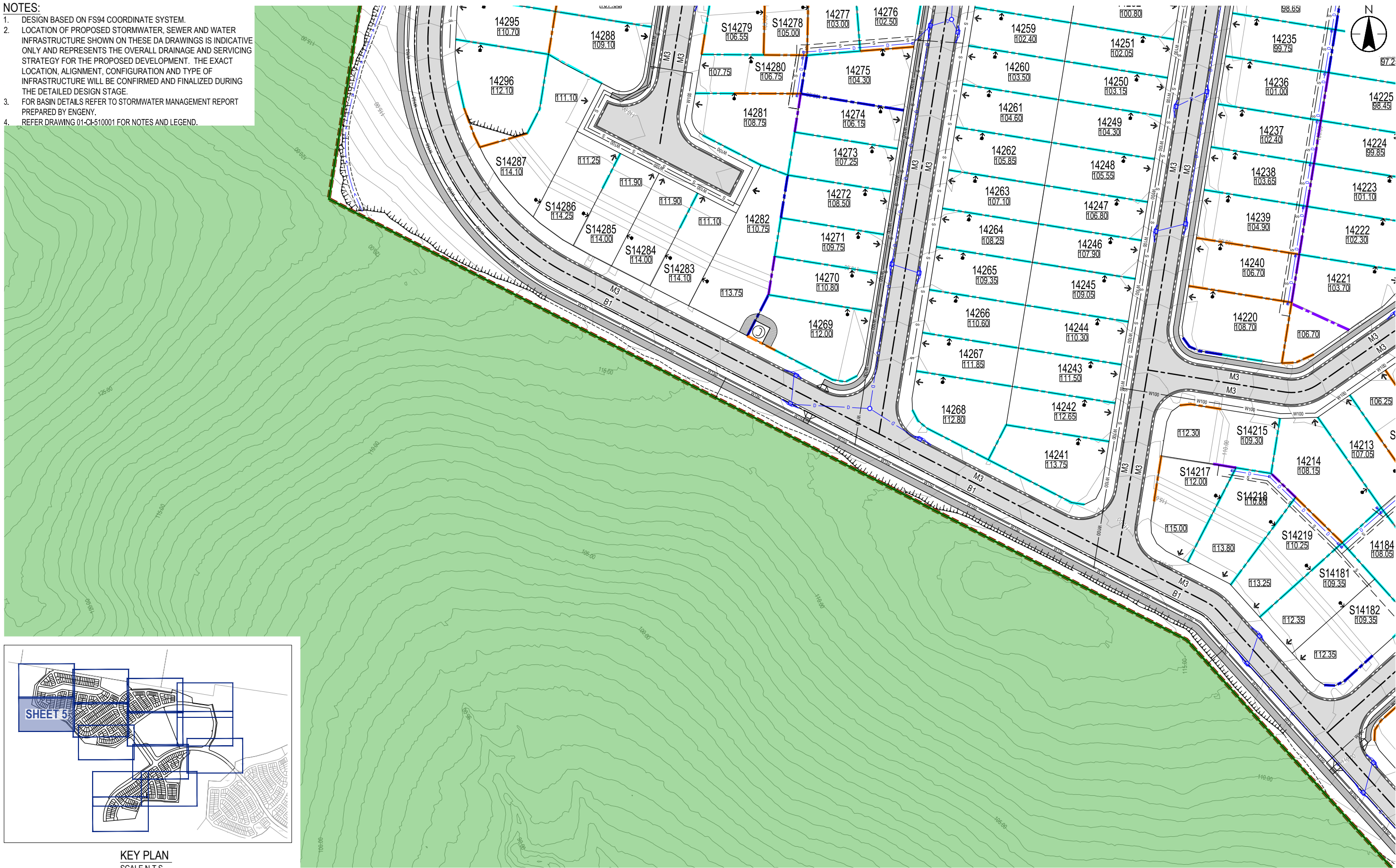
Project No. _____

Drawing No.
01-CI-510004

Scale at A1

Revision

- NOTES:
- DESIGN BASED ON FS94 COORDINATE SYSTEM.
 - LOCATION OF PROPOSED STORMWATER, SEWER AND WATER INFRASTRUCTURE SHOWN ON THESE DA DRAWINGS IS INDICATIVE ONLY AND REPRESENTS THE OVERALL DRAINAGE AND SERVICING STRATEGY FOR THE PROPOSED DEVELOPMENT. THE EXACT LOCATION, ALIGNMENT, CONFIGURATION AND TYPE OF INFRASTRUCTURE WILL BE CONFIRMED AND FINALIZED DURING THE DETAILED DESIGN STAGE.
 - FOR BASIN DETAILS REFER TO STORMWATER MANAGEMENT REPORT PREPARED BY ENGNY.
 - REFER DRAWING 01-CI-510001 FOR NOTES AND LEGEND.



KEY PLAN
SCALE N.T.S

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1:1000

10 5 0 10 20 A1
A3

1	ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03
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Client/Project Logo

mirvac

Client/Project

KINDIRA - MONARCH GLEN

MIRVAC MONARCH GLEN

ROLO5 LOT 2 ON SP351245

KINDIRA - WYATT ROAD, MONARCH GLEN

RB	HS	MH	2026.06.03
Authorised	Ref #	YYYY.MM.DD	Dwn. Dgn. Chkd. Appt. YYYY.MM.DD

Title

ROADWORKS AND STORMWATER DRAINAGE

SHEET 5

Project No.

304702212

Drawing No.

01-CI-510005

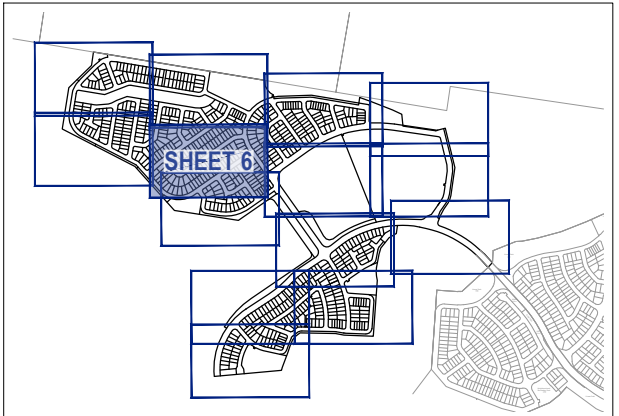
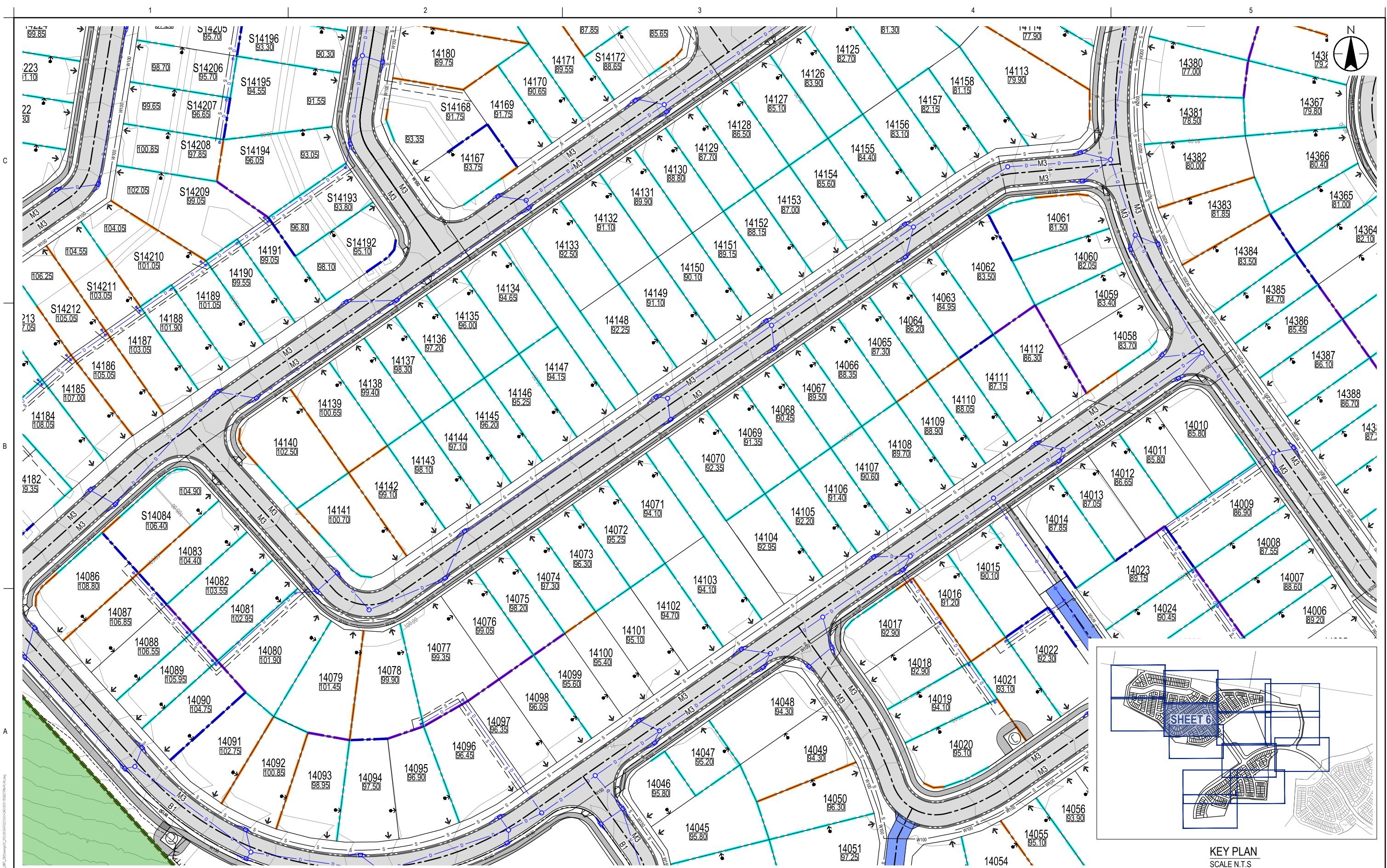
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AS SHOWN

Revision

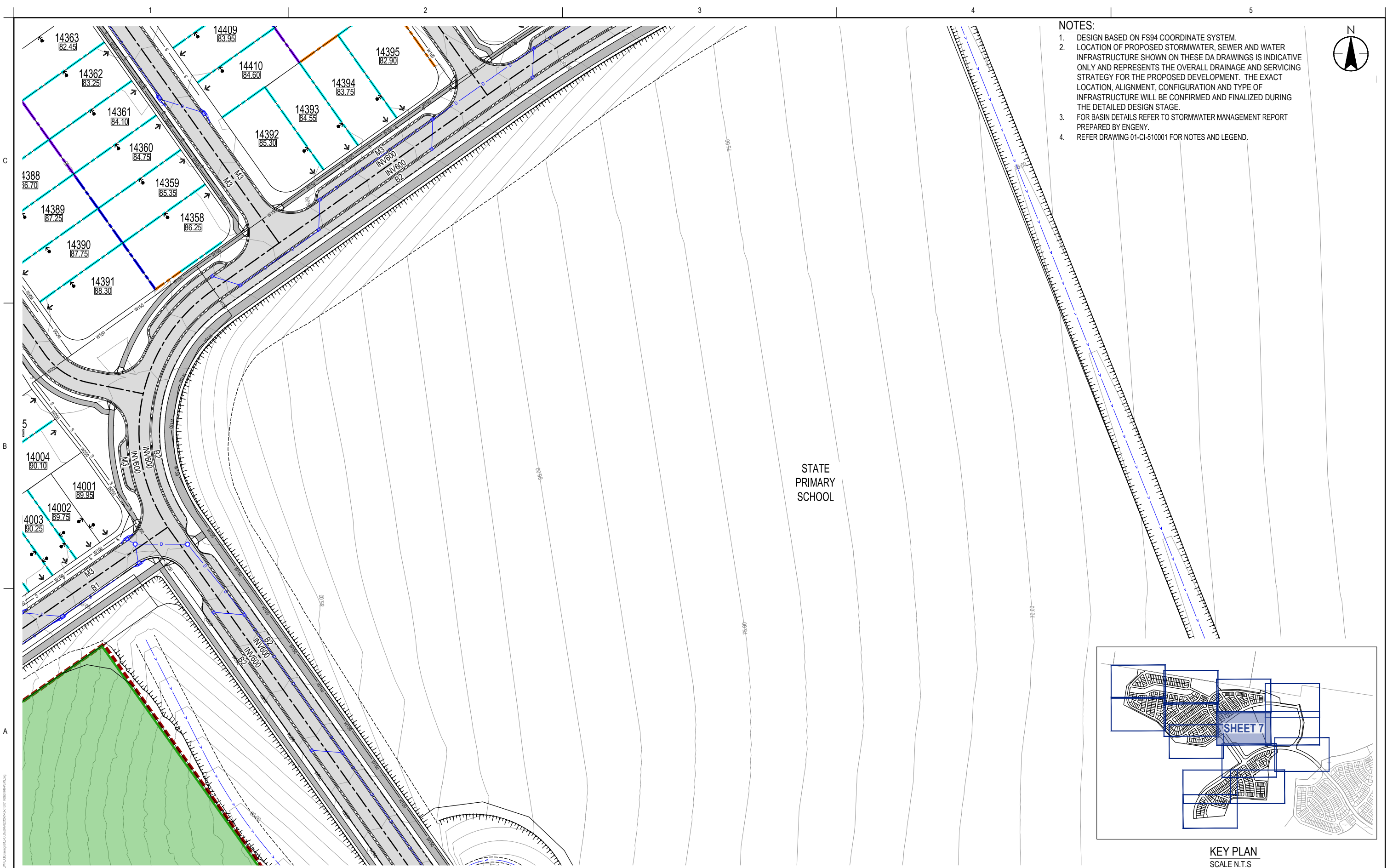
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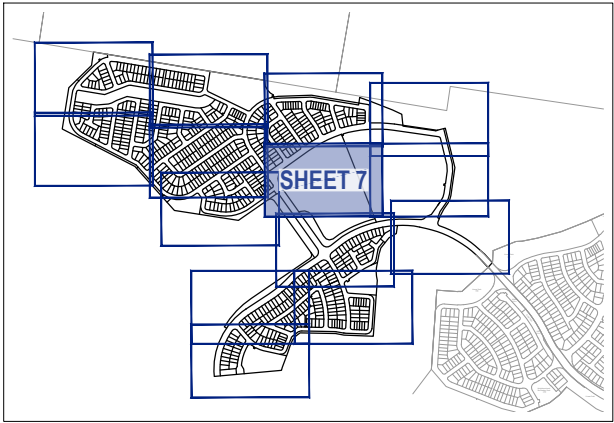


KEY PLAN
SCALE N.T.S.

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Issued/Revision	By	Appd	YYYY.MM.DD																																
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			2026.06.03																																
Authorised	Ref #	YYYY.MM.DD	Dwn	Desgn	Chkd	Appd	YYYY.MM.DD																												



- NOTES:
1. DESIGN BASED ON FS94 COORDINATE SYSTEM.
 2. LOCATION OF PROPOSED STORMWATER, SEWER AND WATER INFRASTRUCTURE SHOWN ON THESE DA DRAWINGS IS INDICATIVE ONLY AND REPRESENTS THE OVERALL DRAINAGE AND SERVICING STRATEGY FOR THE PROPOSED DEVELOPMENT. THE EXACT LOCATION, ALIGNMENT, CONFIGURATION AND TYPE OF INFRASTRUCTURE WILL BE CONFIRMED AND FINALIZED DURING THE DETAILED DESIGN STAGE.
 3. FOR BASIN DETAILS REFER TO STORMWATER MANAGEMENT REPORT PREPARED BY ENGNY.
 4. REFER DRAWING 01-CI-510001 FOR NOTES AND LEGEND.



KEY PLAN
SCALE N.T.S

1:500 10 5 0 10 20 A1
1:1000

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Datum
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Client/Project Logo

mirvac

Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY.MM.DD	Dwn.	Dgn.	Chkd.	Appt.	YYYY.MM.DD

Title ROADWORKS AND STORMWATER DRAINAGE
SHEET 7

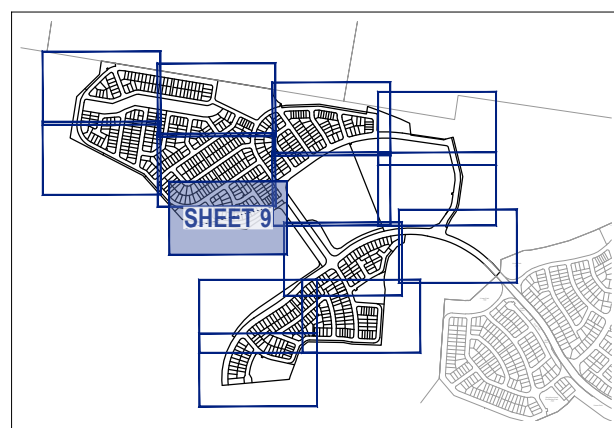
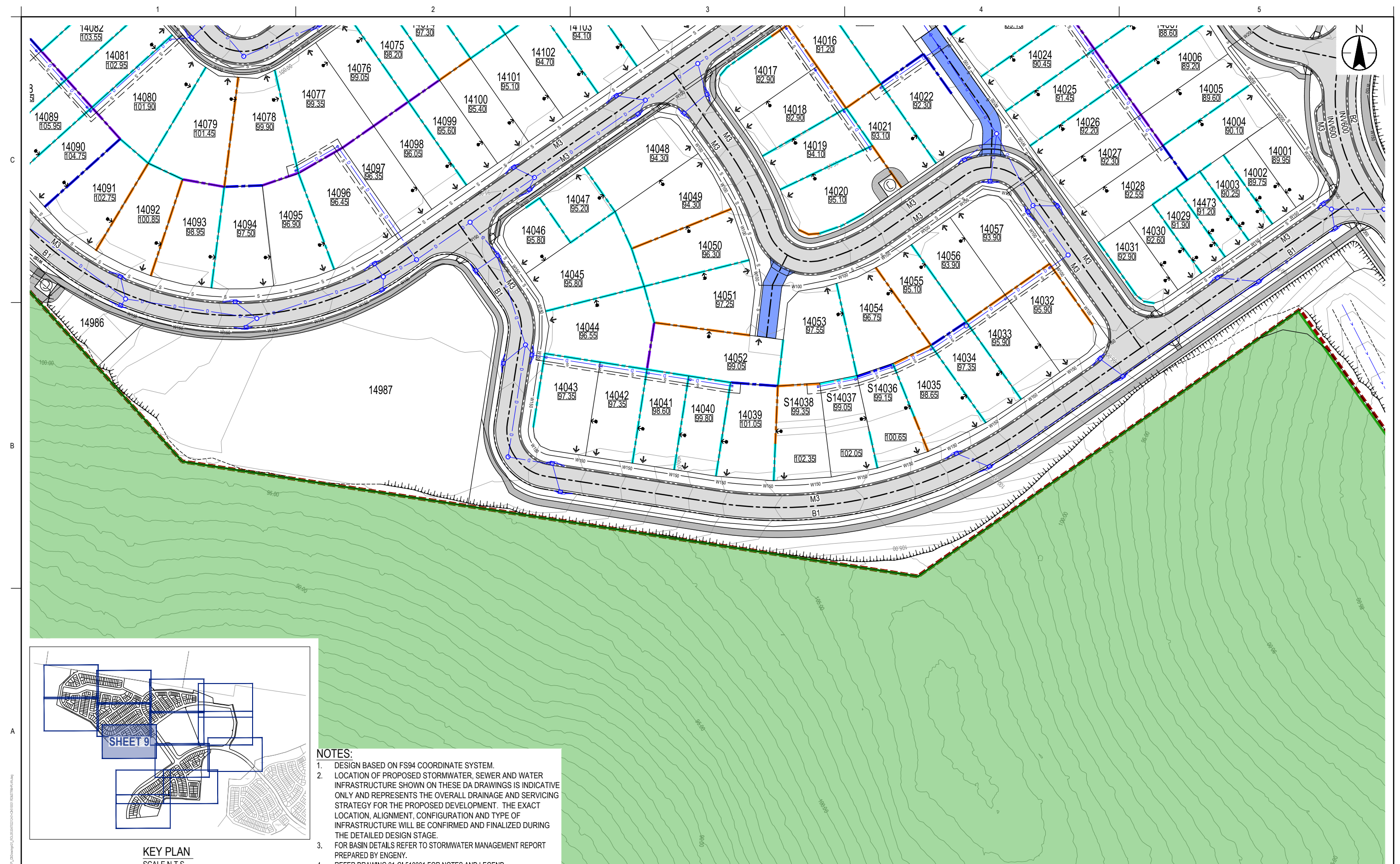
Project No.
304702212

Drawing No.
01-CI-510007

Scale at A1
AS SHOWN

Revision
1

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KEY PLAN
SCALE N.T.S

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4. REFER DRAWING 01-CI-510001 FOR NOTES AND LEGEND.

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Client/Project Logo



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KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Dwn	Discn	Chkd	Appd	YYYY MM DD

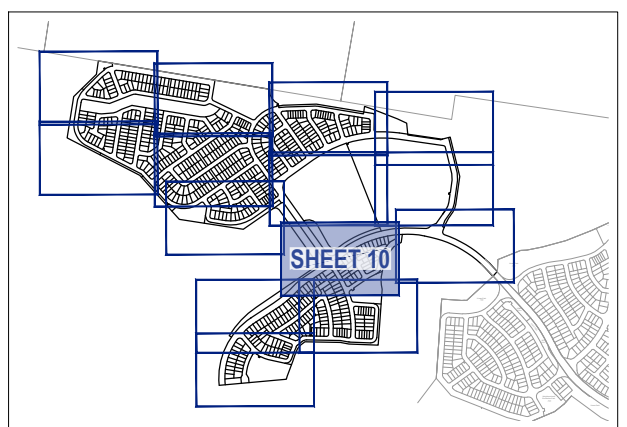
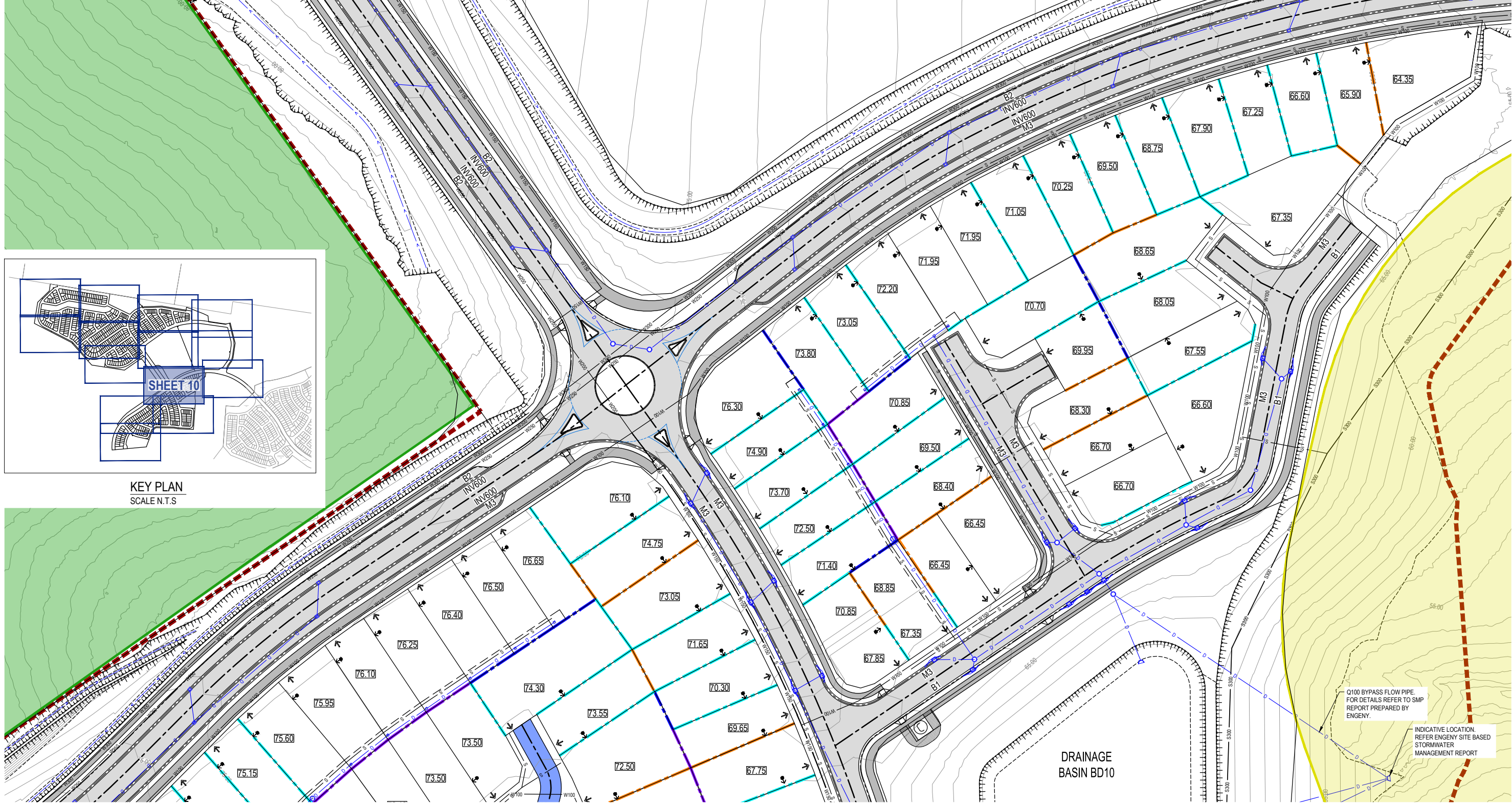
Title ROADWORKS AND STORMWATER DRAINAGE
SHEET 9

Project No.
304702212

Drawing No.
01-CI-510009

scale at A1
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revision

- NOTES:
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 - REFER DRAWING 01-CI-510001 FOR NOTES AND LEGEND.



KEY PLAN
SCALE N.T.S.

Q100 BYPASS FLOW PIPE.
FOR DETAILS REFER TO SMP
REPORT PREPARED BY
ENGNY.

INDICATIVE LOCATION.
REFER ENGNY SITE BASED
STORMWATER
MANAGEMENT REPORT

DRAINAGE
BASIN BD10

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		Issued/Revision	By	Appd	Date																										
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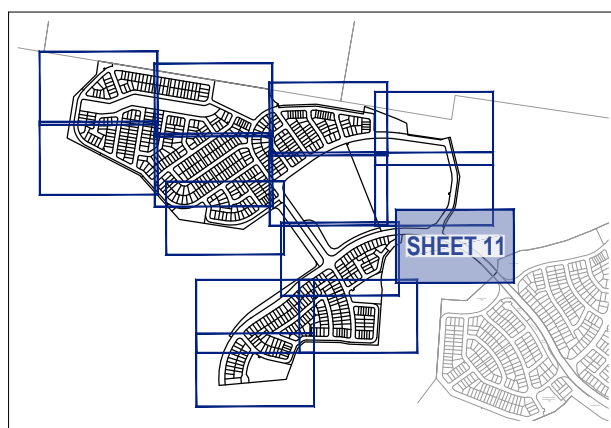
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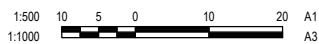
INDICATIVE LOCATION.
REFER ENGNY SITE BA
STORMWATER
MANAGEMENT REPORT

INDICATIVE LOCATION.
REFER ENGNY SITE BASED
STORMWATER
MANAGEMENT REPORT

Linea
111
2.47



KEY PLAN
SCALE N.T.S

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Client/Project Logo



Client/Project
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MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

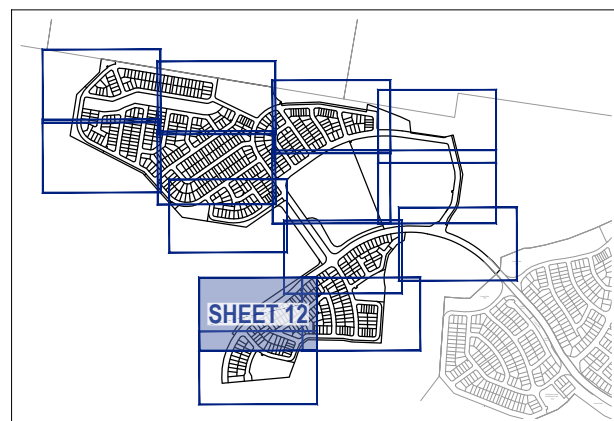
Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
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Title ROADWORKS AND STORMWATER DRAINAGE
SHEET 11

Project No.
304702212

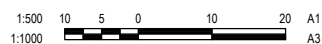
Drawing No.
01-CI-51001

Scale at A1
AS SHOWN
Revision
1



- NOTES:

INDICATIVE LOCATION.
REFER ENGNY SITE BA
STORMWATER
MANAGEMENT REPORT

[illegible]

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FS94
Datum
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Client/Project Logo

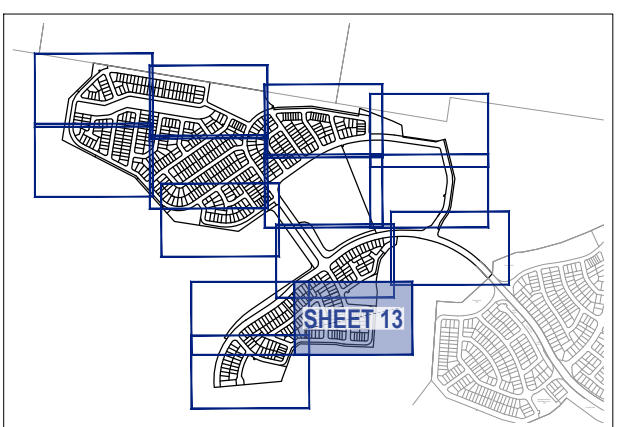
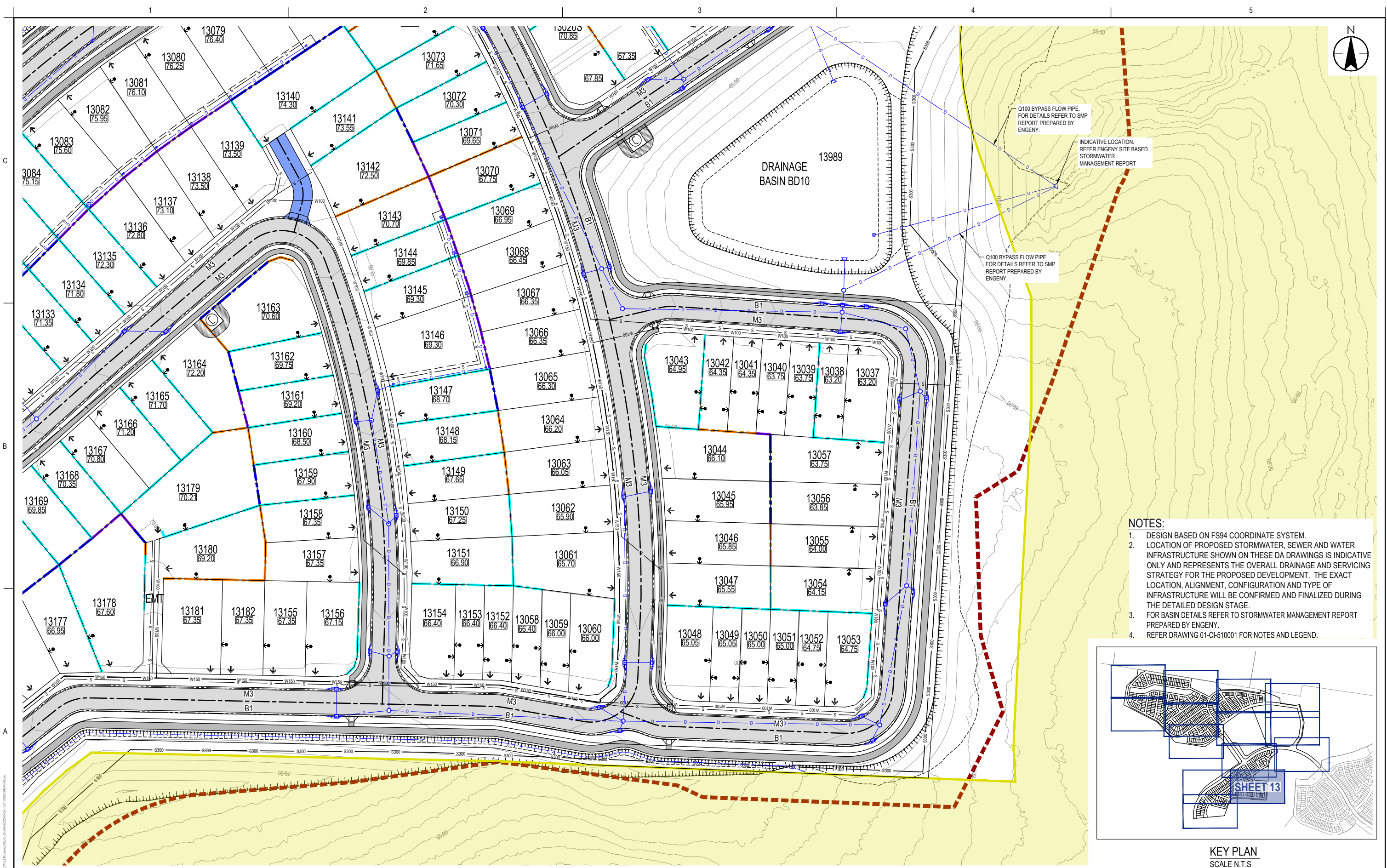


Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Author(s)	Ref. #	XXXX MMDD	RB	HS	MH	Age	2026.06.0
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Title ROADWORKS AND STORMWATER DRAINAGE
SHEET 12

Project No. 304702212	Scale at A1 AS SHOWN
Drawing No. 01-CI-510012	Revision 1



KEY PLAN
SCALE N.T.S

1:500
1:1000

10 5 0 20 A1
A3

1	ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03
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Coordinate System

FS94

Datum

AHD

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Client/Project Logo

mirvac

Client/Project

KINDIRA - MONARCH GLEN

MIRVAC MONARCH GLEN

ROLO5 LOT 2 ON SP351245

KINDIRA - WYATT ROAD, MONARCH GLEN

RB	HS	MH	2026.06.03
Authorised	Ref #	YYYY.MM.DD	Dwn. Dgn. Chkd. Appd.

Title

ROADWORKS AND STORMWATER DRAINAGE

SHEET 13

Project No.

304702212

Drawing No.

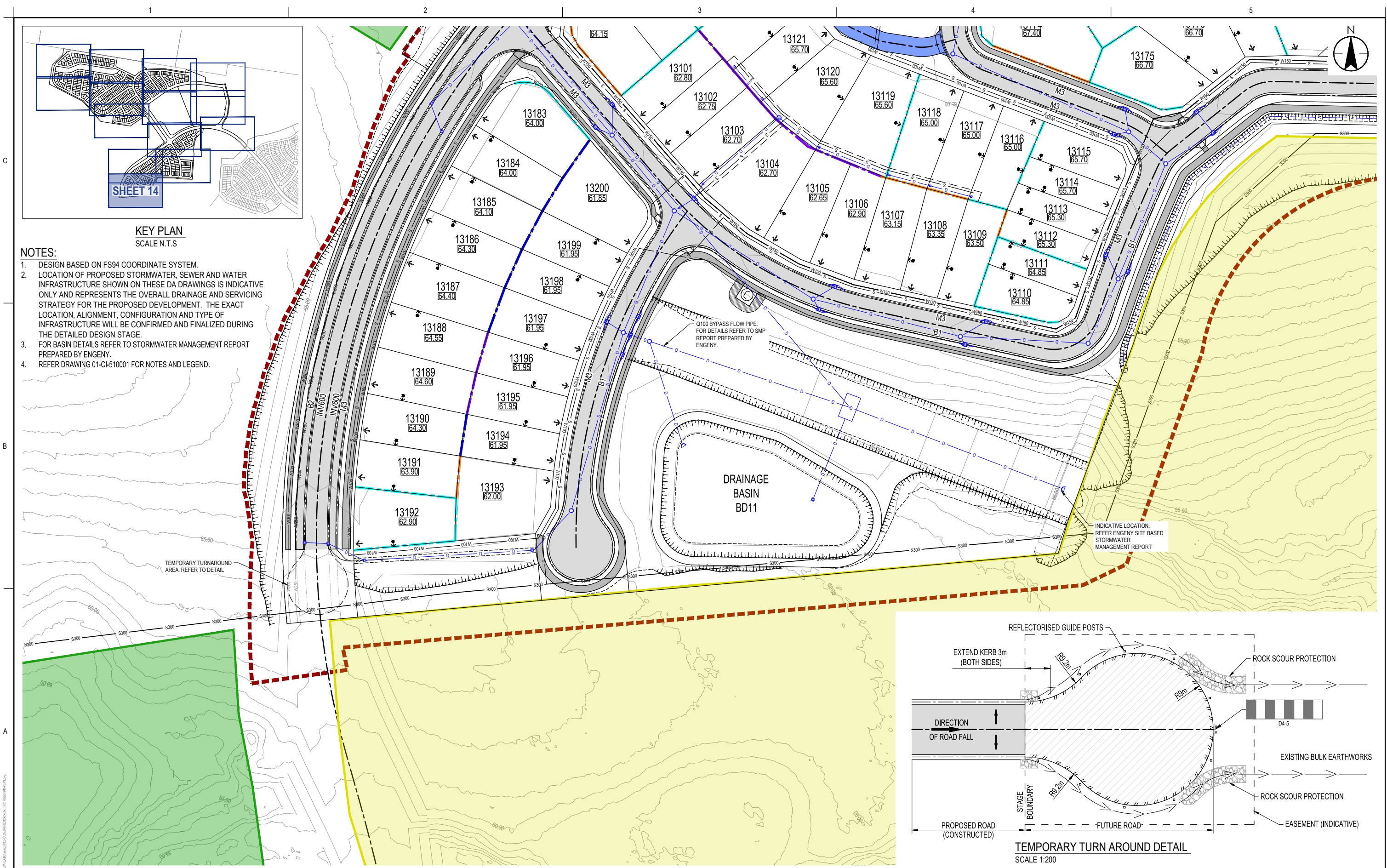
01-CI-510013

Scale at A1

AS SHOWN

Revision

1



1:200

20

2

4

6

8

10

A1

1:400

20

2

4

6

8

10

A3

1:500

10

5

0

10

20

A1

1:1000

10

5

0

10

20

A3

1

ISSUED FOR EDO APPROVAL

RB

MH

2026.06.03

Issued/Revision

By

Appt

YYYY.MM.DD

Issue Status

S4

SUITABLE FOR ROL APPROVAL

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Datum

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Client/Project Logo

mirvac

Client/Project

KINDIRA - MONARCH GLEN

MIRVAC MONARCH GLEN

ROLO5 LOT 2 ON SP351245

KINDIRA - WYATT ROAD, MONARCH GLEN

RB

HS

MH

2026.06.03

Authorised

Ref #

YYYY.MM.DD

Dwn.

Dgn.

Chkd.

Appt.

YYYY.MM.DD

Title

ROADWORKS AND STORMWATER DRAINAGE

SHEET 14

Project No.

304702212

Scale at A1

AS SHOWN

Drawing No.

01-CI-510014

Revision

1

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Client/Project Logo

mirvac

Client/Project

KINDIRA - MONARCH GLEN

MIRVAC MONARCH GLEN

ROLO5 LOT 2 ON SP351245

KINDIRA - WYATT ROAD, MONARCH GLEN

RB

HS

MH

2026.06.03

Authorised

Ref #

YYYY.MM.DD

Dwn.

Dgn.

Chkd.

Appt.

YYYY.MM.DD

Title

ROADWORKS AND STORMWATER DRAINAGE

SHEET 14

Project No.

304702212

Scale at A1

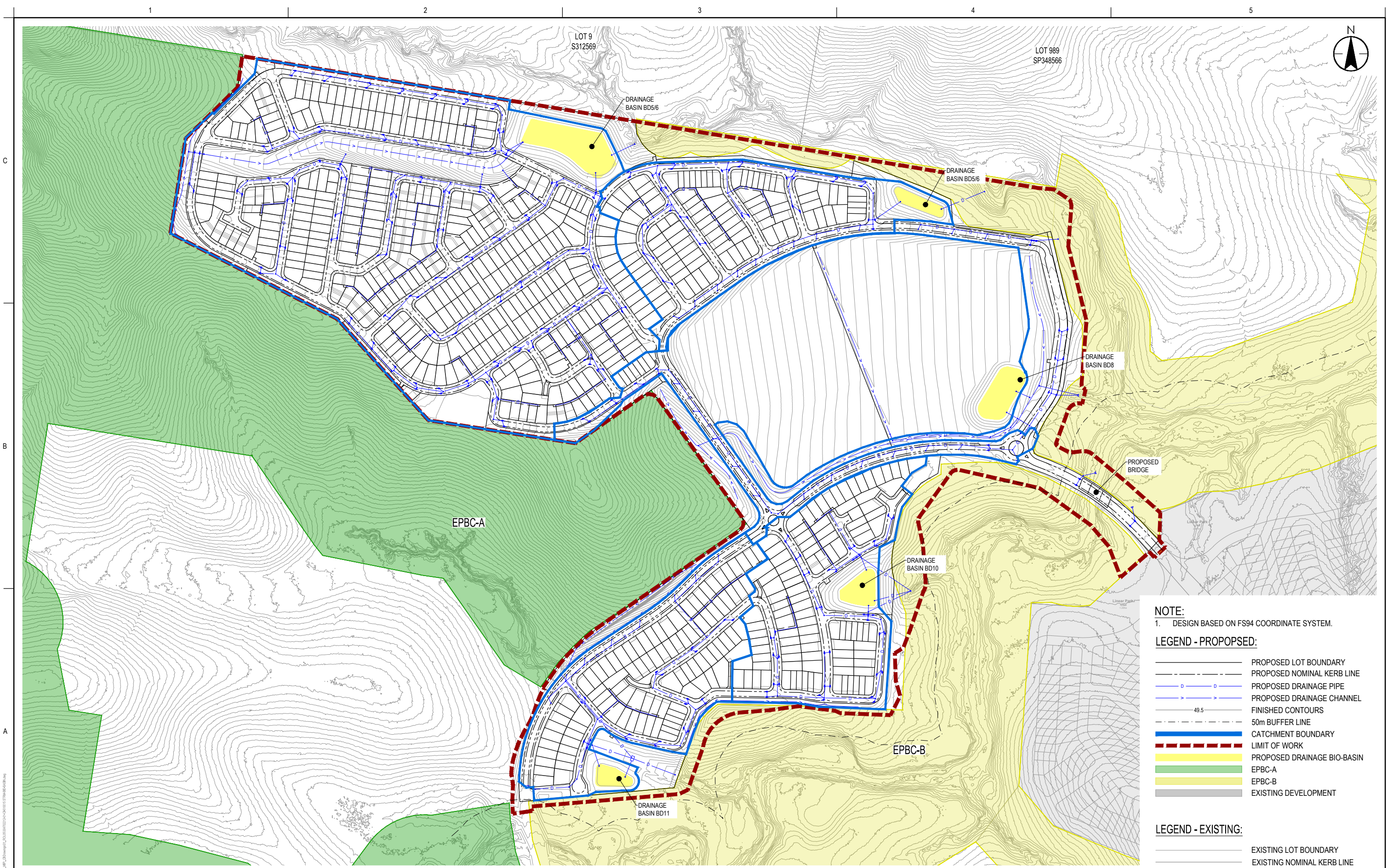
AS SHOWN

Drawing No.

01-CI-510014

Revision

1



- NOTE:**
1. DESIGN BASED ON FS94 COORDINATE SYSTEM.
- LEGEND - PROPOSED:**
- PROPOSED LOT BOUNDARY
 - PROPOSED NOMINAL KERB LINE
 - PROPOSED DRAINAGE PIPE
 - PROPOSED DRAINAGE CHANNEL
 - 49.5
 - FINISHED CONTOURS
 - 50m BUFFER LINE
 - CATCHMENT BOUNDARY
 - LIMIT OF WORK
 - PROPOSED DRAINAGE BIO-BASIN
 - EPBC-A
 - EPBC-B
 - EXISTING DEVELOPMENT
- LEGEND - EXISTING:**
- EXISTING LOT BOUNDARY
 - EXISTING NOMINAL KERB LINE

1:2500 50 0 50 100 A1
1:5000

1	ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03
Issued/Revision	By	Appt	YYYY.MM.DD	

Issue Status
S4
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FS94
Datum
AHD

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Client/Project Logo
mirvac

Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

RB	HS	MH	2026.06.03
Authorised	Ref #	YYYY.MM.DD	Dwn. Desgn. Chkd. Appt.

Title
CONCEPT BIO-RETENTION AND CATCHMENT OVERALL PLAN

Project No.
304702212

Drawing No.
01-CI-510015

Scale at A1
AS SHOWN

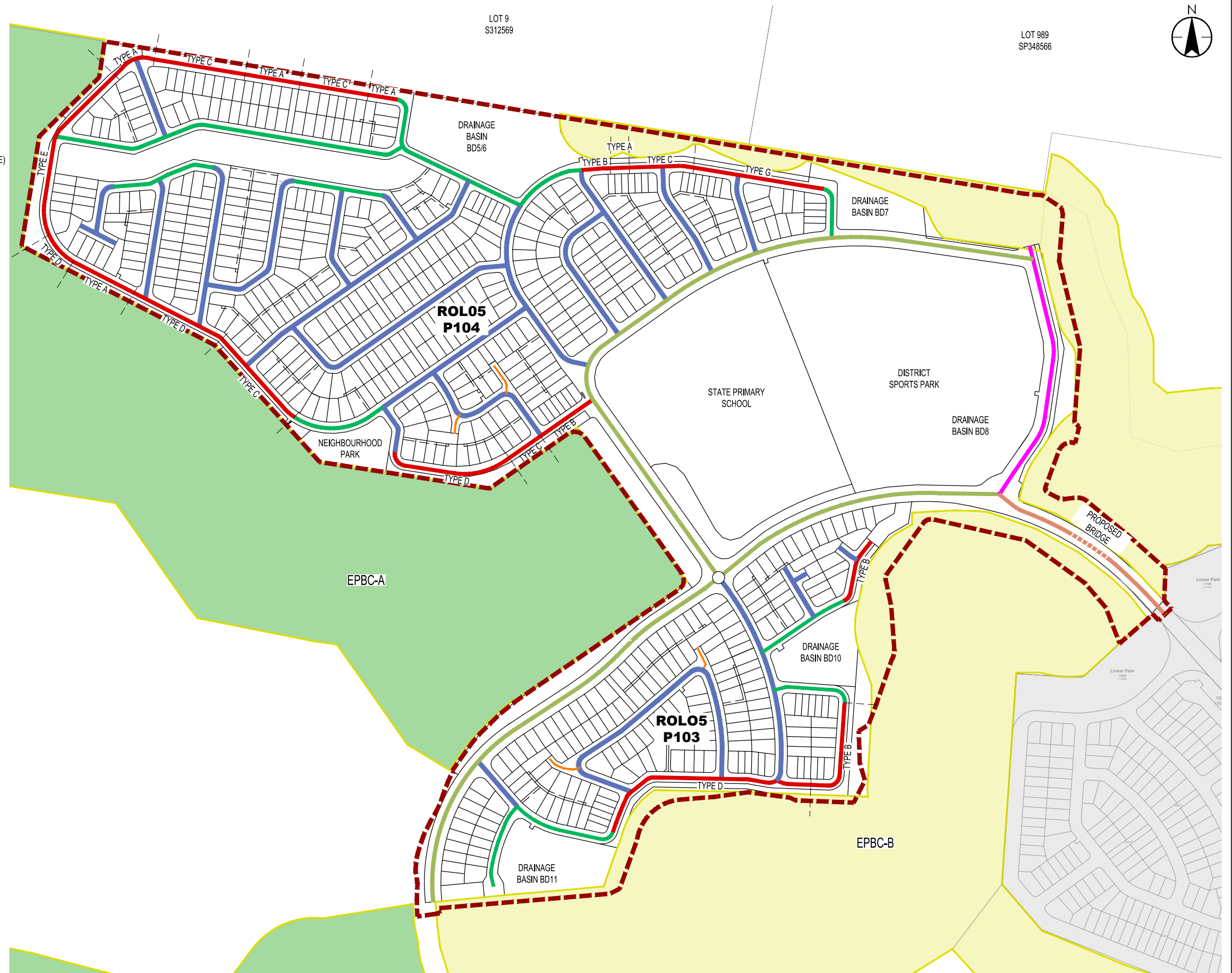
Revision
1

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1. DESIGN BASED ON FS94 COORDINATE SYSTEM.
2. REFER DRAWINGS 01-CI-510021-510024 FOR ROAD TYPICAL SECTIONS AND TYPES.

	TRUNK CONNECTOR (24m ROAD RESERVE)
	NEIGHBOURHOOD CONNECTOR (21m ROAD RESERVE)
	TRUNK CONNECTOR 2 LANE BRIDGE (20m ROAD RESERVE)
	2 LANE BRIDGE (16.2m ROAD RESERVE)
	ACCESS STREET (15.5m ROAD RESERVE)
	ACCESS STREET (14m ROAD RESERVE)
	ACCESS STREET CONSERVATION (14m ROAD RESERVE)
	ACCESS DRIVEWAY (10m RESERVE)
	ACCESS LANEWAY (6.5m RESERVE)
	PROPOSED LOT BOUNDARY
	EPBC CONSERVATION AREA
	LIMIT OF WORK
	EPBC-A CONSERVATION AREA
	EPBC-B CONSERVATION AREA

EXISTING LOT BOUNDARY

[illegible]

Issue Status

S4

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Datum
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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

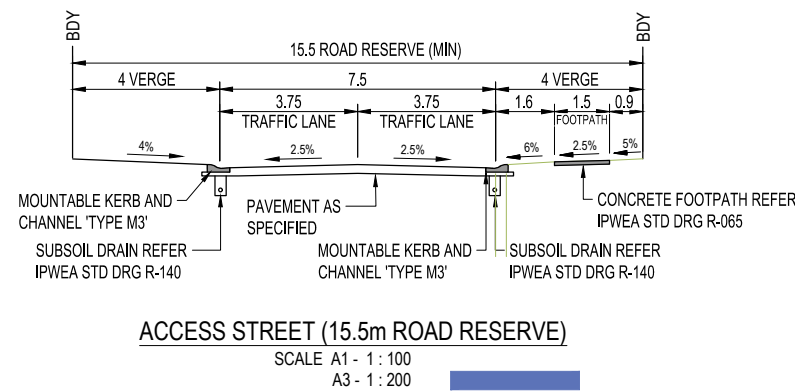
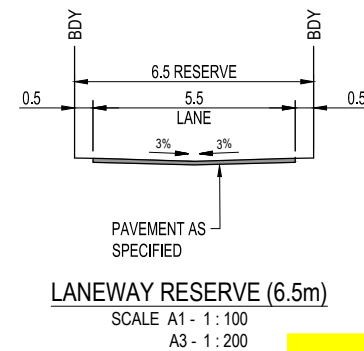
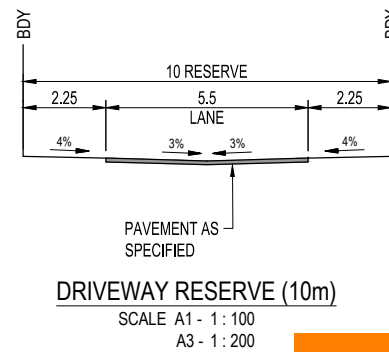
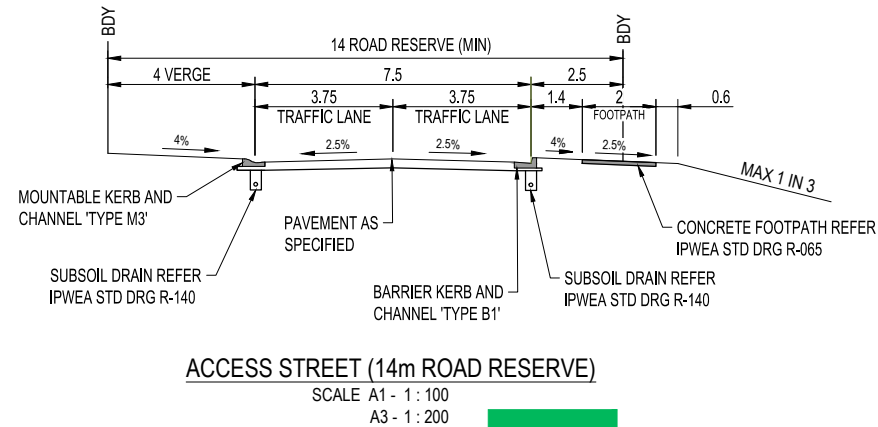
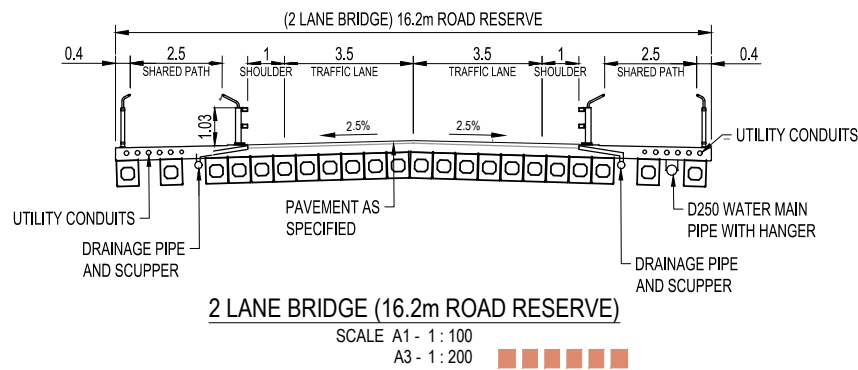
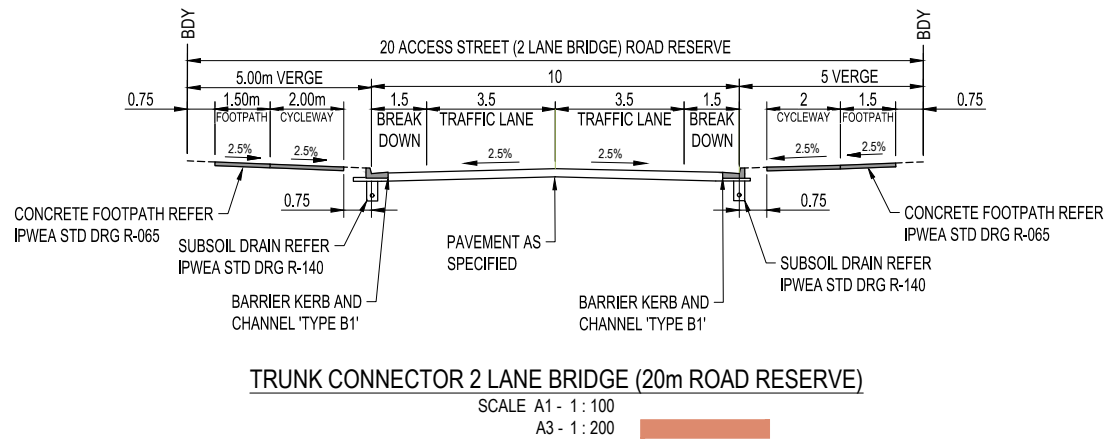
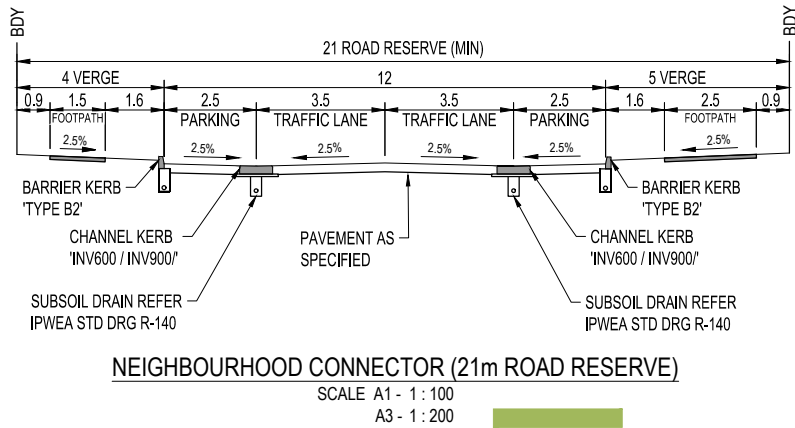
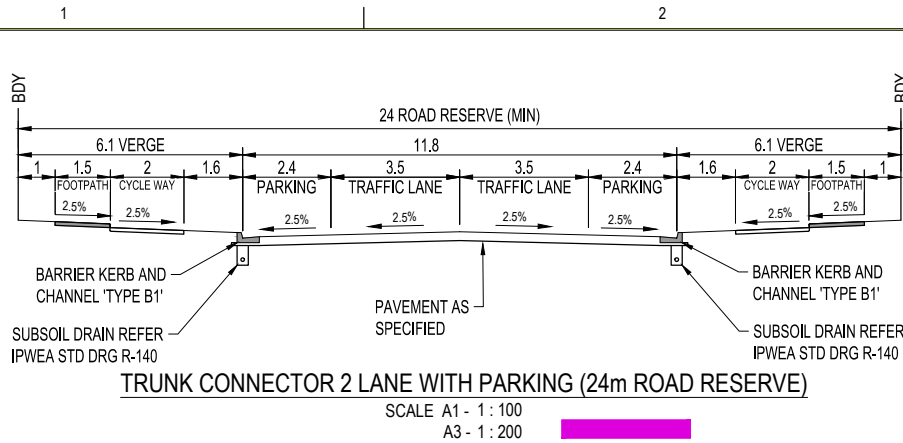
Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Don	Don	Child	Apnd	YYYY MM DD

Title ROAD HEIRARCHY PLAN

Project No.
304702212

Drawing No.
01-CI-510020

scale at A1
S SHOWN
revision
1



LEGEND:

	TRUNK CONNECTOR ROAD 24.0m
	NEIGHBOURHOOD CONNECTOR 21.0m
	TRUNK CONNECTOR (2 LANE BRIDGE) 20.0m
	TRUNK CONNECTOR (2 LANE BRIDGE)
	ACCESS ROAD 15.5m
	ACCESS STREET 14.0m
	ACCESS DRIVEWAY 10.0m
	ACCESS LANEWAY 6.5m

NOTE:

- ADD 2m LANDSCAPE BUFFER IF INTERFACING WITH ACOUSTIC FENCE. IF $\Rightarrow$ 15m LINEAR PARK ADJACENT: REDUCE VERGE TO 4m AND MOVE PATHS TO PARK REFER TO MONARCH GLEN ROAD CROSS SECTION ASSESSMENT DOCUMENT FOR MORE
- FOR KERB TYPES REFER TO IPWEA STANDARD DRAWING RS-080.
- FOR SUBSOIL DRAIN TYPES REFER IPWEA STANDARD DRAWING RS-140.
- FOR CONCRETE FOOTPATH DETAILS REFER IPWEA STD DRG R-065.

1:100 1 0 1 2 3 4 5 A1
1:200

1	ISSUED FOR EDC APPROVAL	RB	MH	2026.06.03
Issued/Revision		By	Appt	YYYY.MM.DD

Issue Status
S4
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Datum
AHD

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Client/Project Logo

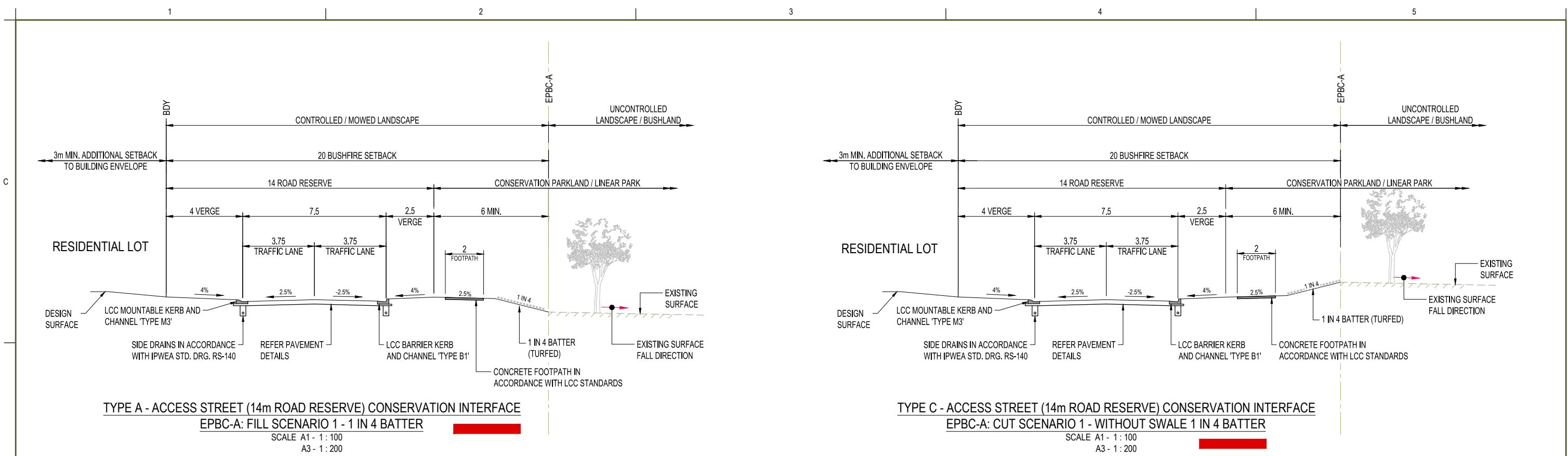


Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROLO5 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY.MM.DD	Dwn.	HS	MH	2026.06.03	Appt.	YYYY.MM.DD
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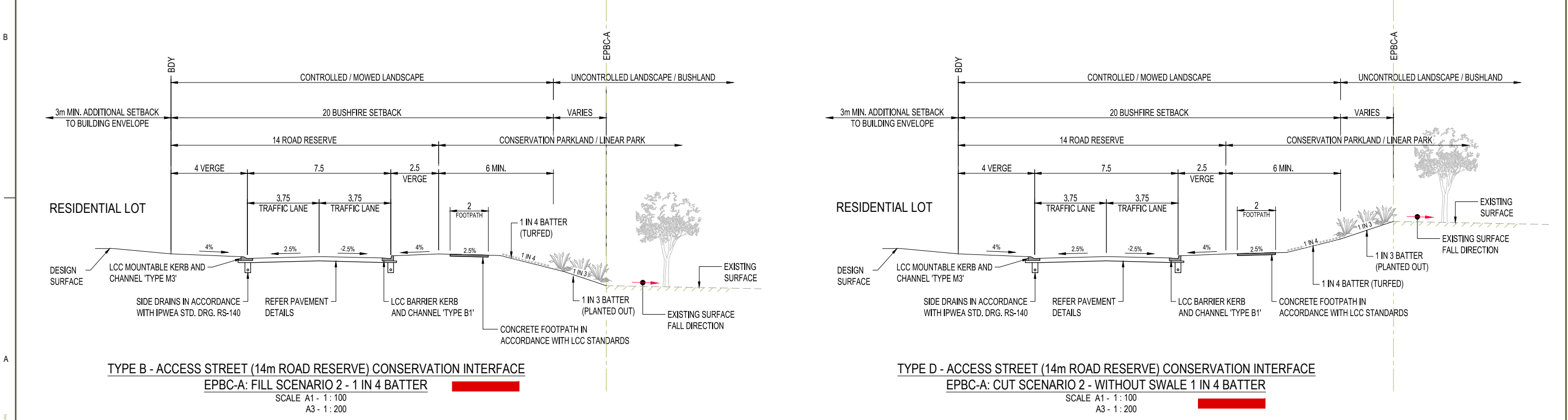
Title ROAD HEIRARCHY TYPICAL SECTIONS
SHEET 1

Project No. 304702212	Scale at A1 AS SHOWN
Drawing No. 01-CI-510021	Revision 1



TYPE A - ACCESS STREET (14m ROAD RESERVE) CONSERVATION INTERFACE
EPBC-A: FILL SCENARIO 1 - 1 IN 4 BATTER
SCALE A1 - 1 : 100
A3 - 1 : 200

TYPE C - ACCESS STREET (14m ROAD RESERVE) CONSERVATION INTERFACE
EPBC-A: CUT SCENARIO 1 - WITHOUT SWALE 1 IN 4 BATTER
SCALE A1 - 1 : 100
A3 - 1 : 200



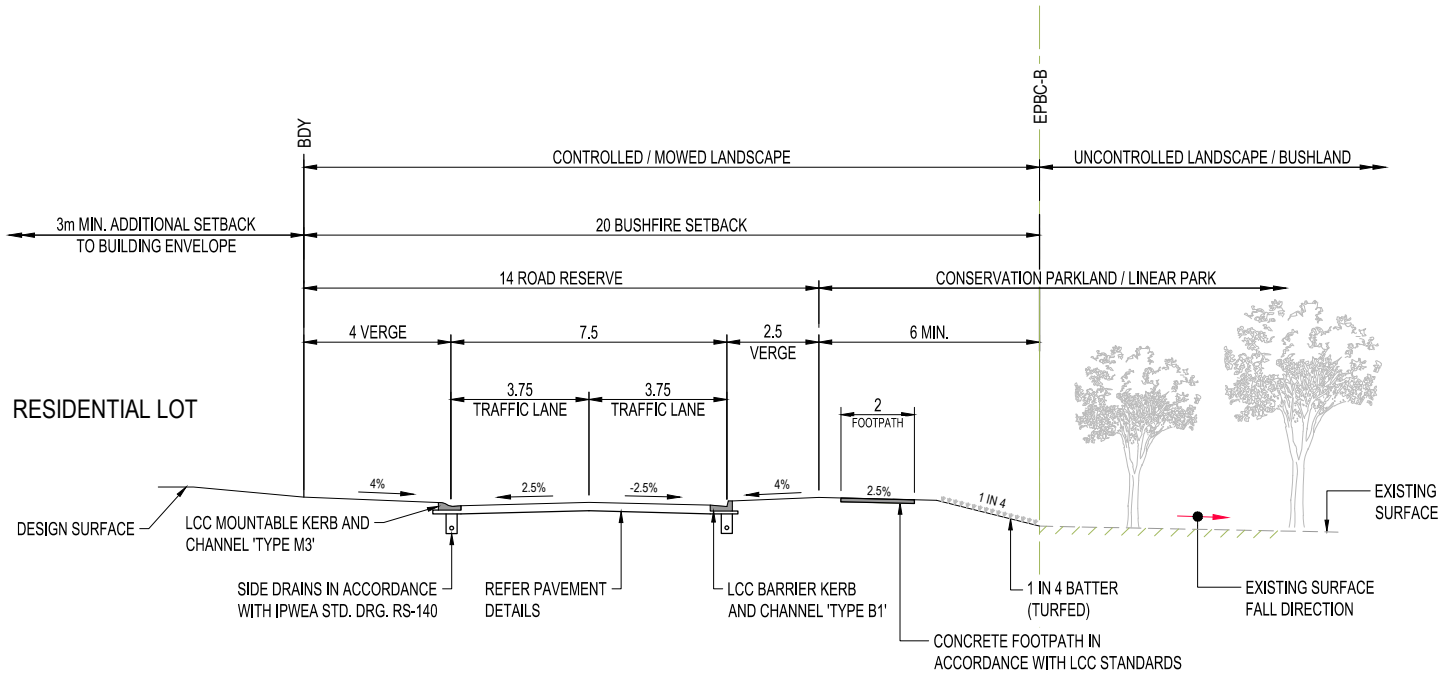
TYPE B - ACCESS STREET (14m ROAD RESERVE) CONSERVATION INTERFACE
EPBC-A: FILL SCENARIO 2 - 1 IN 4 BATTER
SCALE A1 - 1 : 100
A3 - 1 : 200

TYPE D - ACCESS STREET (14m ROAD RESERVE) CONSERVATION INTERFACE
EPBC-A: CUT SCENARIO 2 - WITHOUT SWALE 1 IN 4 BATTER
SCALE A1 - 1 : 100
A3 - 1 : 200

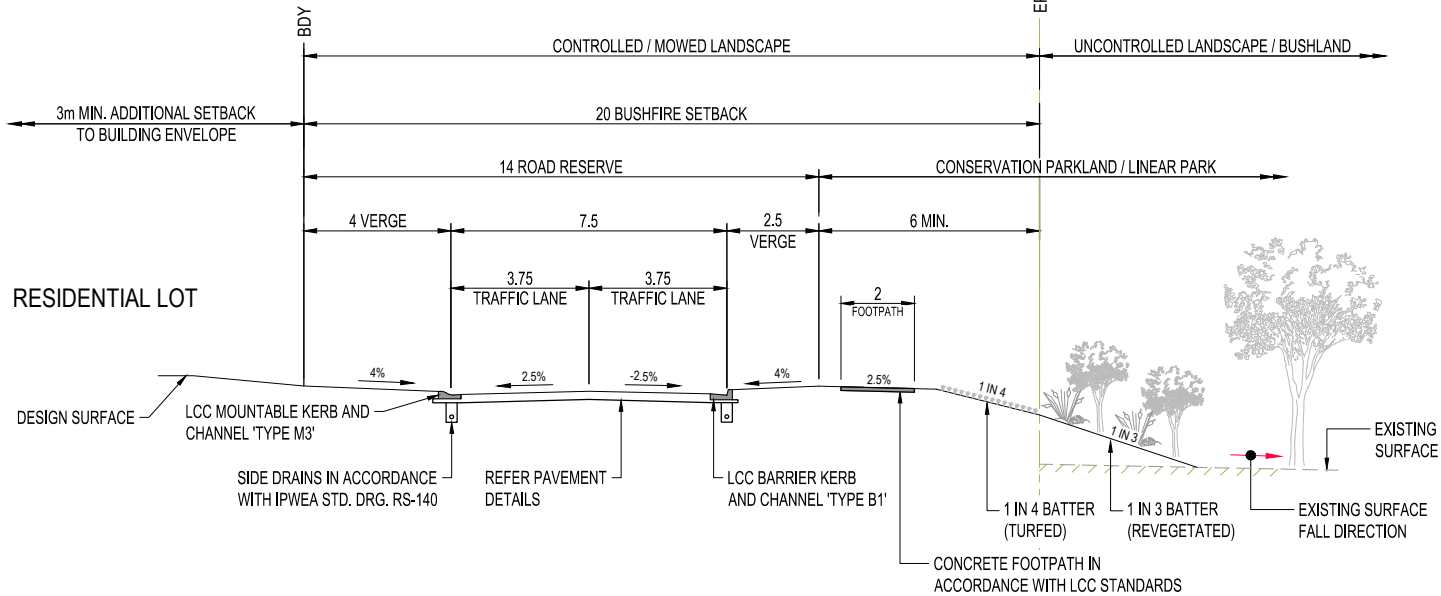
LEGEND:

ACCESS ROAD (CONSERVATION) 14.0m

- NOTE:
1. ADD 2m LANDSCAPE BUFFER IF INTERFACING WITH ACOUSTIC FENCE. IF >= 15m LINEAR PARK ADJACENT: REDUCE VERGE TO 4m AND MOVE PATHS TO PARK REFER TO MONARCH GLEN ROAD CROSS SECTION ASSESSMENT DOCUMENT FOR MORE
 2. FOR KERB TYPES REFER TO IPWEA STANDARD DRAWING RS-080.
 3. FOR SUBSOIL DRAIN TYPES REFER IPWEA STANDARD DRAWING RS-140.
 4. FOR CONCRETE FOOTPATH DETAILS REFER IPWEA STD DRG R-065.



TYPE F - ACCESS STREET (ROAD RESERVE) CONSERVATION INTERFACE
EPBC-B: FILL SCENARIO 1 - 1 IN 4 BATTER
SCALE A1 - 1 : 100
A3 - 1 : 200



TYPE G - ACCESS STREET (14m ROAD RESERVE) CONSERVATION INTERFACE
EPBC-B: FILL SCENARIO 2 - 1 IN 4 BATTER
SCALE A1 - 1 : 100
A3 - 1 : 200

LEGEND:

ACCESS ROAD (CONSERVATION) 14.0m

NOTE:

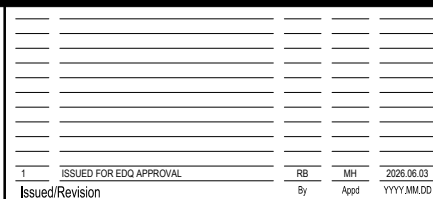
1. ADD 2m LANDSCAPE BUFFER IF INTERFACING WITH ACOUSTIC FENCE. IF $\Rightarrow$ 15m LINEAR PARK ADJACENT; REDUCE VERGE TO 4m AND MOVE PATHS TO PARK REFER TO MONARCH GLEN ROAD CROSS SECTION ASSESSMENT DOCUMENT FOR MORE
2. FOR KERB TYPES REFER TO IPWEA STANDARD DRAWING RS-080.
3. FOR SUBSOIL DRAIN TYPES REFER IPWEA STANDARD DRAWING RS-140.
4. FOR CONCRETE FOOTPATH DETAILS REFER IPWEA STD DRG R-065.

C:\Users\j\Documents\Projects\Monarch Glen\Drawings\Road Hierarchy\Road Hierarchy Typical Sections\Road Hierarchy Typical Sections.dwg
2026.06.03 10:00:00
1:100 1:200

1:100 1:200 1 0 1 2 3 4 5 A1 A3	<table><tr><td>1</td><td>ISSUED FOR EDQ APPROVAL</td><td>RB</td><td>MH</td><td>2026.06.03</td></tr><tr><td>Issued/Revision</td><td>By</td><td>Appt</td><td>YYYY.MM.DD</td><td></td></tr></table>	1	ISSUED FOR EDQ APPROVAL	RB	MH	2026.06.03	Issued/Revision	By	Appt	YYYY.MM.DD		Issue Status S4 SUITABLE FOR ROL APPROVAL This document is suitable only for the purpose noted above. Use of this document for any other purpose is not permitted.	Coordinate System FS94 Datum AHD Colour Disclaimer This drawing has been documented in colour. This drawing is required to be printed in colour. Failure to do so may result in loss of information. Black and white printing may be used if specific black and white documents have been obtained from Stantec.	Copyright Reserved The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.	Client/Project Logo Client/Project KINDIRA - MONARCH GLEN MIRVAC MONARCH GLEN ROL05 LOT 2 ON SP351245 KINDIRA - WYATT ROAD, MONARCH GLEN	<table><tr><td>Authorised</td><td>Ref #</td><td>YYYY.MM.DD</td><td>Dwn.</td><td>HS</td><td>MH</td><td>2026.06.03</td></tr><tr><td></td><td></td><td></td><td>Dwn.</td><td>Dwn.</td><td>Chkd.</td><td>Appt.</td></tr></table>	Authorised	Ref #	YYYY.MM.DD	Dwn.	HS	MH	2026.06.03				Dwn.	Dwn.	Chkd.	Appt.	Title ROAD HEIRARCHY TYPICAL SECTIONS SHEET 4 Project No. 304702212 Drawing No. 01-CI-510024 Scale at A1 AS SHOWN Revision 1
1	ISSUED FOR EDQ APPROVAL	RB	MH	2026.06.03																											
Issued/Revision	By	Appt	YYYY.MM.DD																												
Authorised	Ref #	YYYY.MM.DD	Dwn.	HS	MH	2026.06.03																									
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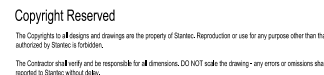
A

SCALE: HORIZONTAL - 1:1000
VERTICAL - 1:100



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			Date	Date	Child	Appd
						YYYY MM DD

01-CI-510031

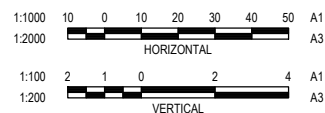
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A

DATUM RL 55.000

ROAD 78 - SHEET 2

SCALE: HORIZONTAL - 1:1000
VERTICAL - 1:100

[illegible]

Issue Status

S4

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Coordinate System
FS94
Datum
AHD

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

			RB	HS	MH		2026.06.03
Authorised	Ref #	YYYY MM DD	Dwn	Dscr	Chkd	Appd	YYYY MM DD

Title ROAD LONGITUDINAL SECTION
ROAD 78
SHEET 2

Project No.
304702212

Drawing No.
01-CI-510032

Scale at A1
AS SHOWN

Revision
1

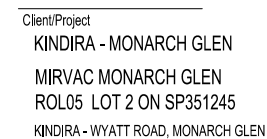
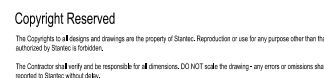
A



Coordinate System
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Datum
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Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Disc	Disc	Child	Appd	YYYY MM DD

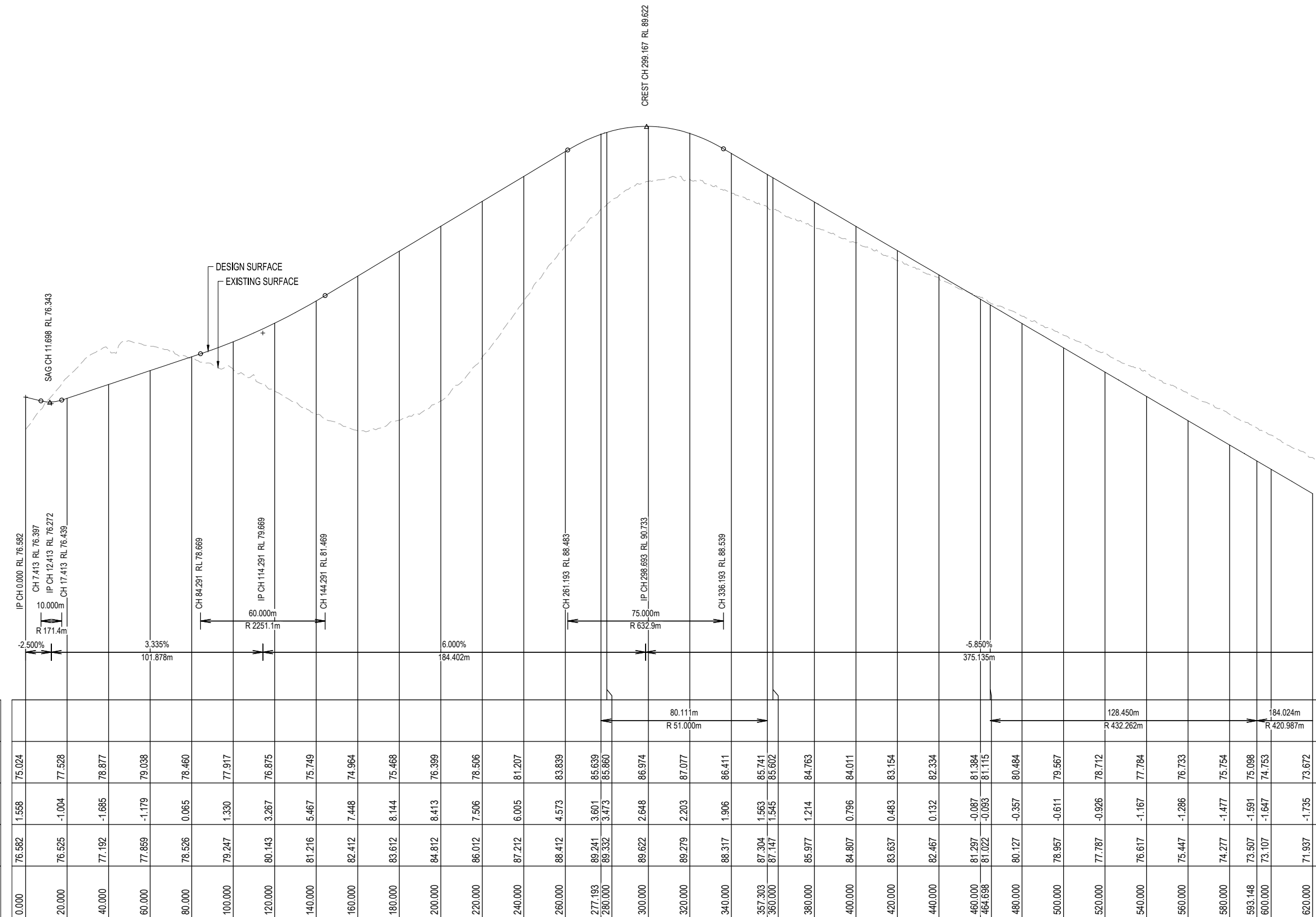
Project No. 304702212	Scale at A1 AS SHOWN
Drawing No. 01-CI-510033	Revision 1

B

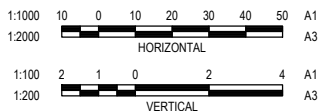
A

ORIGINAL SHEET - ISO A1

HORIZ CURVE LENGTH(m) HORIZ CURVE RADIUS (m)
EXISTING SURFACE LEVELS ROAD CENTRELINE
CUT / FILL DEPTH TO EXISTING SURFACE
DESIGN SURFACE LEVELS ROAD CENTRELINE
CONTROL LINE CHAINAGE ROAD CENTRELINE

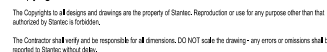


SCALE: HORIZONTAL - 1:1000
VERTICAL - 1:100

[illegible]

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mirtvac

Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

			RB	HS	MH		2026.06.03
Authorised	Ref #	YYYY MM DD	Dwn	Dwn	Chkd	Appd	YYYY MM DD

Title ROAD LONGITUDINAL SECTION
ROAD 4
SHEET 1

Project No. _____

Drawing No.

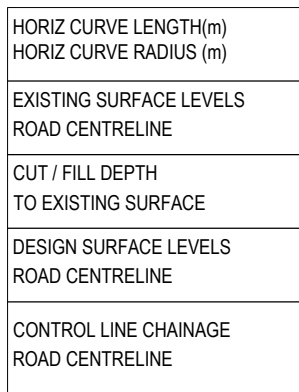
01-CI-510034

Scale at A1

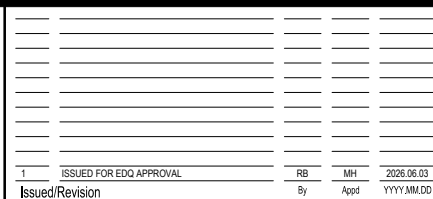
Revision

B

A

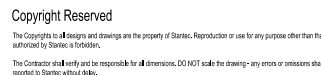


SCALE: HORIZONTAL - 1:1000
VERTICAL - 1:100



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mirtvac

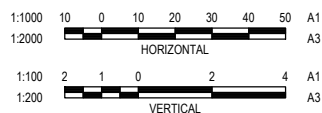
			RB	HS	MH		2026.06.03
Authorised	Ref #	YYYY MM DD	Dwn	Dtwn	Chrd	Apnd	YYYY MM DD

Project No. 304702212	Scale at A1 AS SHOWN
Drawing No. 01-CI-510035	Revision 1

A



ROAD 21
SCALE: HORIZONTAL - 1:1000
VERTICAL - 1:100

[illegible]

Issue Status

S4

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Coordinate System
FS94
Datum
AHD

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH	2026.06.03
			Date	Date	Child	Appd

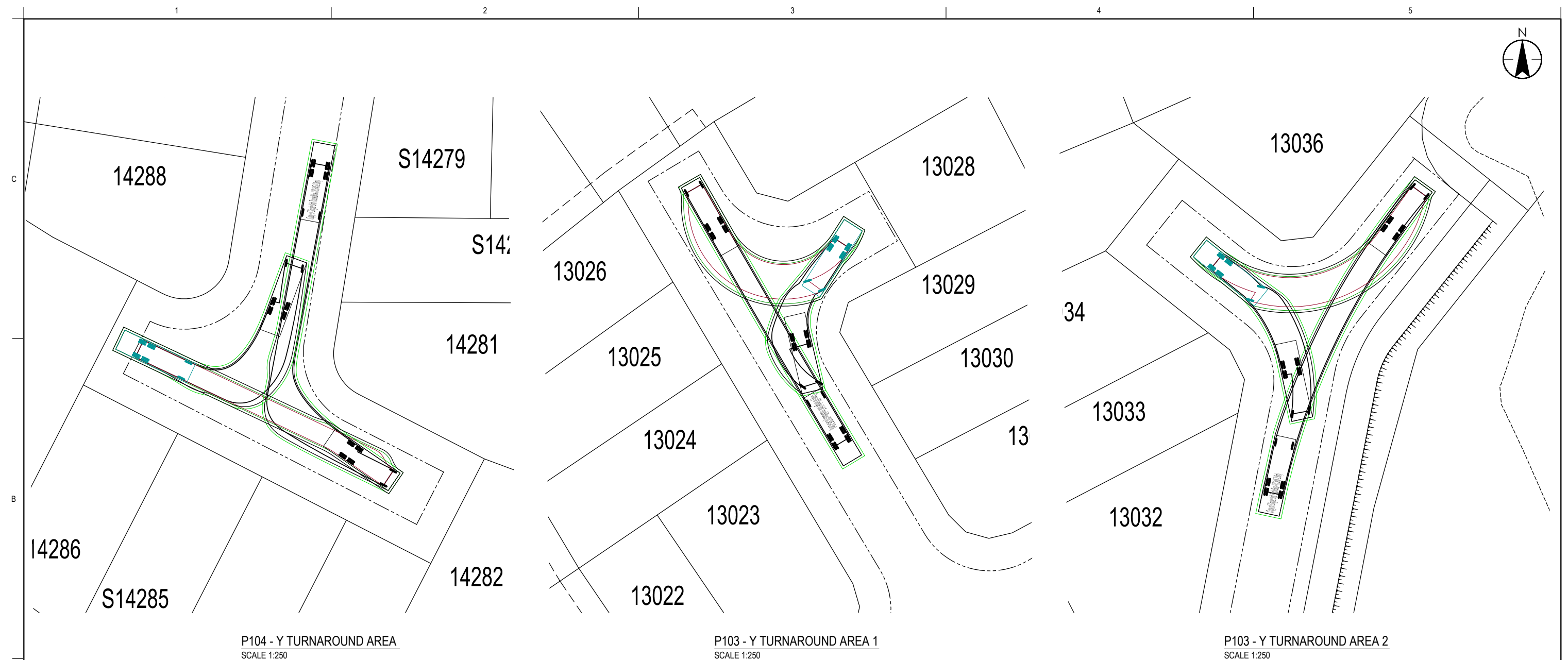
Title ROAD LONGITUDINAL SECTION
ROAD 21

Project No.
304702212

Drawing No.
01-CI-510036

Scale at A1
AS SHOWN

Revision
1



NOTE:
1. DESIGN BASED ON FS94 COORDINATE SYSTEM.

LEGEND - PROPOSED:

 PROPOSED LOT BOUNDARY
 PROPOSED NOMINAL KERB LINE

[illegible]

Issue Status

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

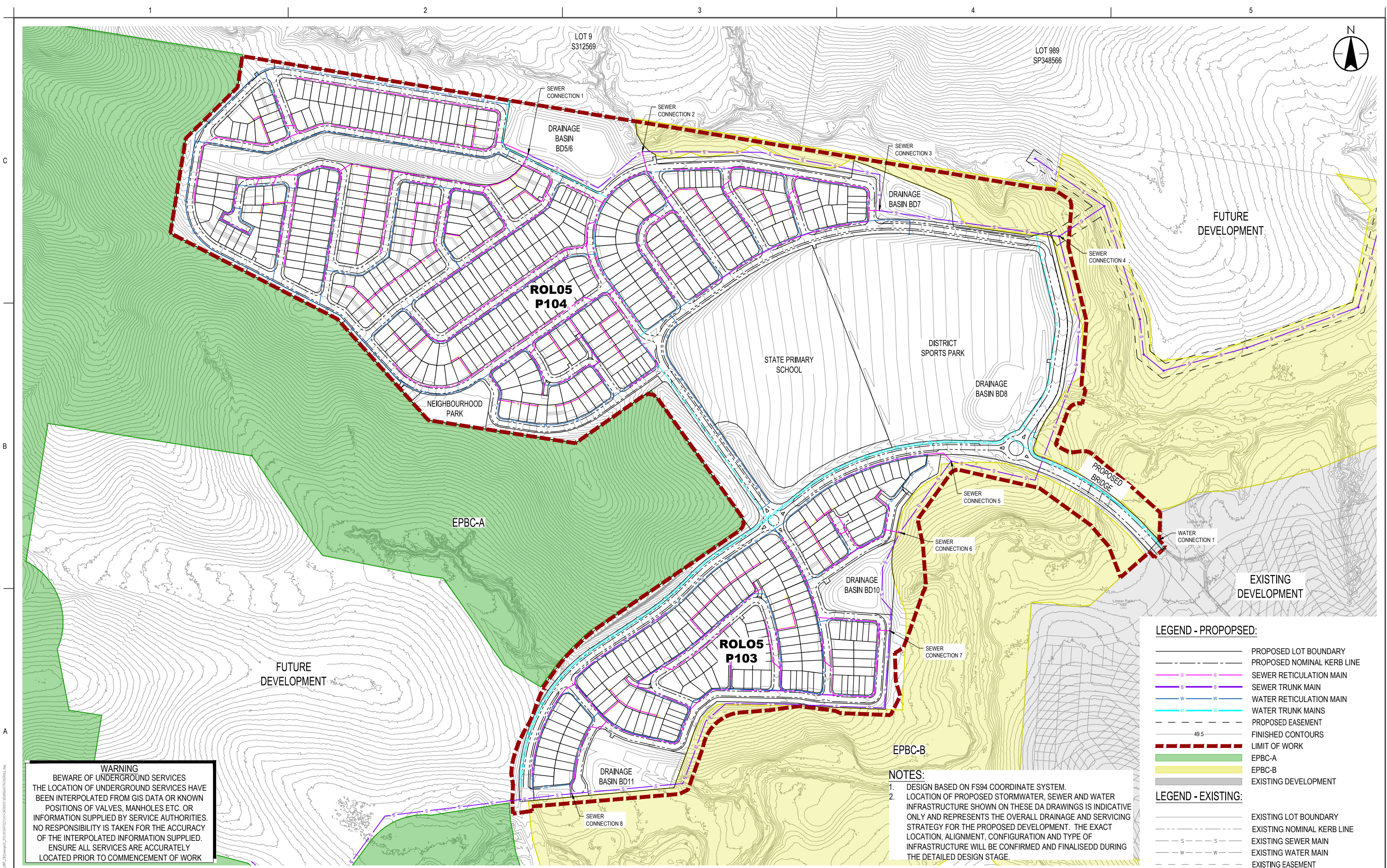
Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Dwn	Discn	Chkd	Appd	YYYY MM DD

Title ROAD TURN PATHS

Project No.
304702212

Drawing No.
01-CI-510040

scale at A1
S SHOWN
revision



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM GIS DATA OR KNOWN POSITIONS OF VALVES, MANHOLES ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK

NOTES:
1. DESIGN BASED ON FS94 COORDINATE SYSTEM.
2. LOCATION OF PROPOSED STORMWATER, SEWER AND WATER INFRASTRUCTURE SHOWN ON THESE DA DRAWINGS IS INDICATIVE ONLY AND REPRESENTS THE OVERALL DRAINAGE AND SERVICING STRATEGY FOR THE PROPOSED DEVELOPMENT. THE EXACT LOCATION, ALIGNMENT, CONFIGURATION AND TYPE OF INFRASTRUCTURE WILL BE CONFIRMED AND FINALISED DURING THE DETAILED DESIGN STAGE.

- LEGEND - PROPOSED:**
- PROPOSED LOT BOUNDARY
 - PROPOSED NOMINAL KERB LINE
 - SEWER RETICULATION MAIN
 - SEWER TRUNK MAIN
 - WATER RETICULATION MAIN
 - WATER TRUNK MAINS
 - PROPOSED EASEMENT
 - 49.5
 - FINISHED CONTOURS
 - LIMIT OF WORK
 - EPBC-A
 - EPBC-B
 - EXISTING DEVELOPMENT
- LEGEND - EXISTING:**
- EXISTING LOT BOUNDARY
 - EXISTING NOMINAL KERB LINE
 - EXISTING SEWER MAIN
 - EXISTING WATER MAIN
 - EXISTING EASEMENT

1:2500 50 0 50 100 A1
1:5000

1	ISSUED FOR EDC APPROVAL	RB	MH	2026.06.03
Issued/Revision	By	Appt	YYYY.MM.DD	

Issue Status
S4
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FS94
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Client/Project Logo

Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY.MM.DD	Dwn.	HS	MH	2026.06.03
			Desgn.	Chkd.	Appt.	YYYY.MM.DD

Title
**SEWER AND WATER
RETICULATION OVERALL PLAN**

Project No.
304702212

Drawing No.
01-CI-550000

Scale at A1
AS SHOWN

Revision
1

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2026.06.03 10:00:00
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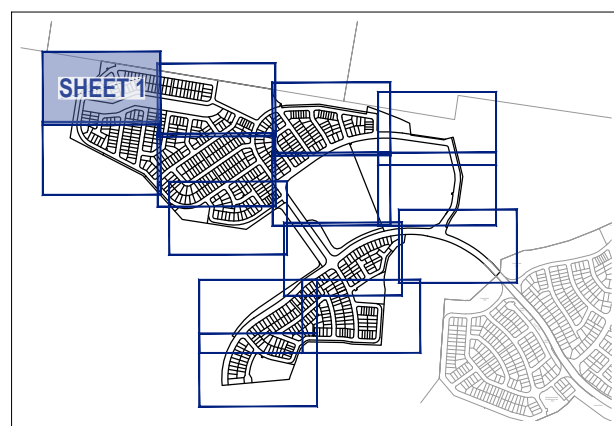
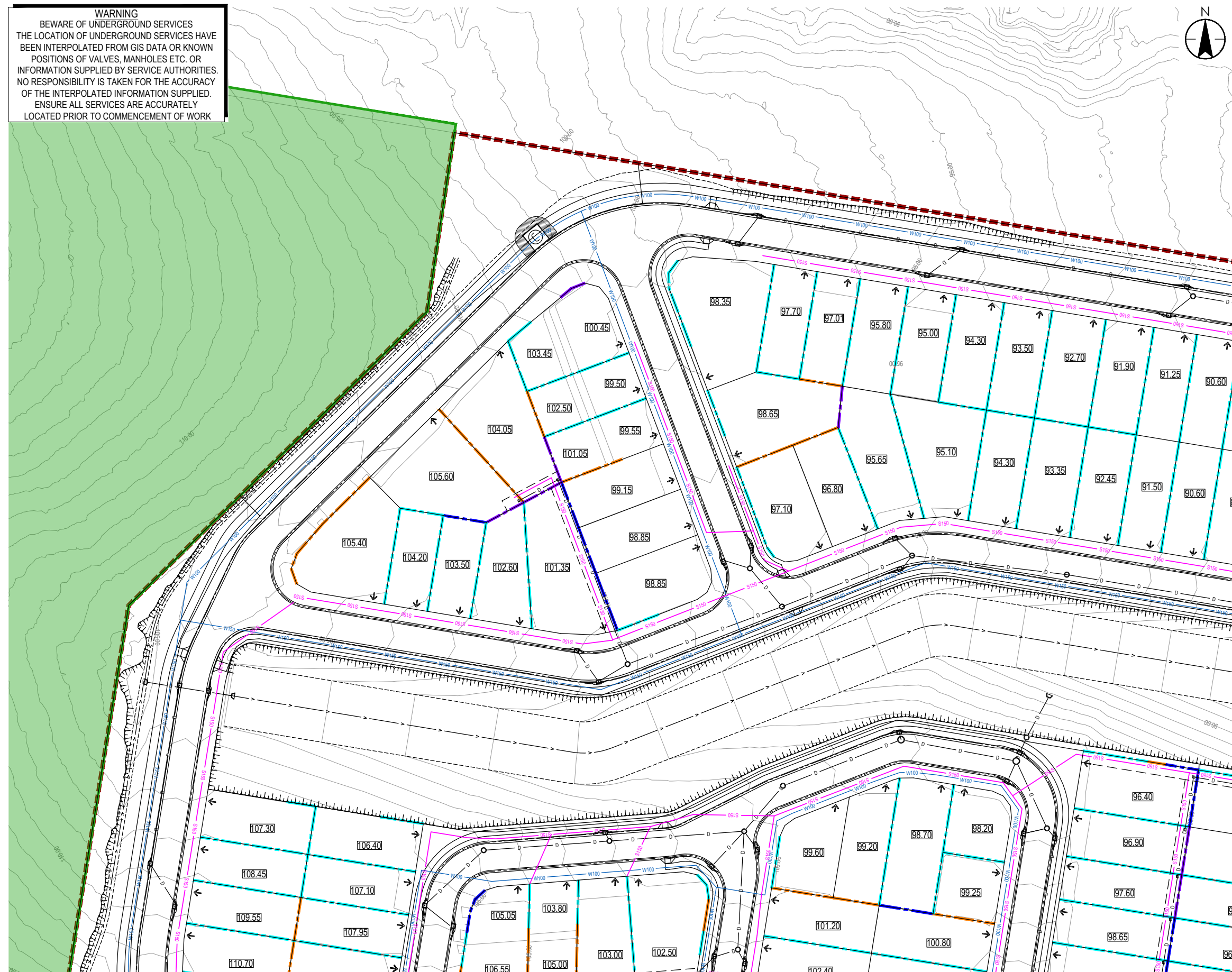
1. DESIGN BASED ON FS94 COORDINATE SYSTEM.

	PROPOSED LOT BOUNDARY
	PROPOSED NOMINAL KERB LINE
	SEWER RETICULATION AND PIPE DIAMETER
	SEWER TRUNK
	WATER RETICULATION AND PIPE DIAMETER
	WATER RETICULATION AND PIPE DIAMETER
	WATER TRUNK AND PIPE DIAMETER
	WATER TRUNK AND PIPE DIAMETER
	WATER TRUNK AND PIPE DIAMETER
	PROPOSED DRAINAGE PIPE
	PROPOSED DRAINAGE CHANNEL
	FINISHED CONTOURS
	FUTURE DRIVEWAY LOCATION
	ZERO LOT LINE
	PROPOSED RETAINING WALL (0.45m - 1.5m HIGH)
	PROPOSED RETAINING WALL (1.5m - 2.0m HIGH)
	PROPOSED RETAINING WALL (2.0m - 2.5m HIGH)
	PROPOSED RETAINING WALL (2.5m - 3.0m HIGH)
	LIMIT OF WORK
	EPBC-A
	EPBC-B
	EXISTING DEVELOPMENT

EXISTING LOT BOUNDARY
 EXISTING NOMINAL KERB LINE
 S S
 W W
 D D
 W250

WATER AND SEWER MAIN SIZING IS INDICATIVE. REFER TO COLLIERS SEWER AND WATER PRECINCT NETWORK PLANS FOR DETAILED ASSESSMENTS TO INFORM FUTURE DETAIL DESIGN.

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES HAVE
BEEN INTERPOLATED FROM GIS DATA OR KNOWN
POSITIONS OF VALVES, MANHOLES ETC. OR
INFORMATION SUPPLIED BY SERVICE AUTHORITIES
NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY
OF THE INTERPOLATED INFORMATION SUPPLIED.
ENSURE ALL SERVICES ARE ACCURATELY
LOCATED PRIOR TO COMMENCEMENT OF WORK



KEY PLAN
SCALE N.T.S

[illegible]

Issue Status

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Coordinate System
FS94
Datum
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Client/Project Logos



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Author(s)	Ref.#	XXXX MM DD	RB	HS	MH	Age	2026.06.0
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Title SEWER AND WATER
RETICULATION PLAN
SHEET 1

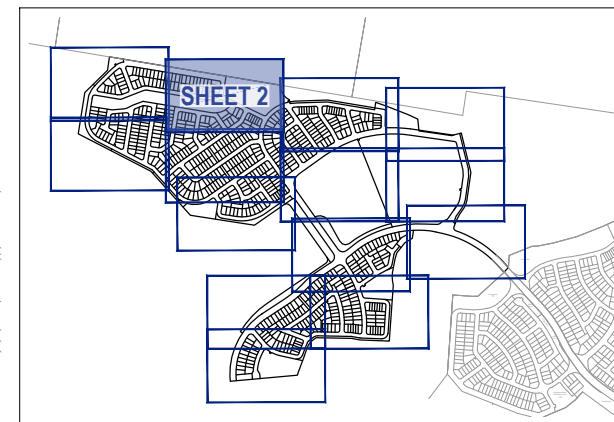
Project No.
304702212

Drawing No.
01-CI-55000

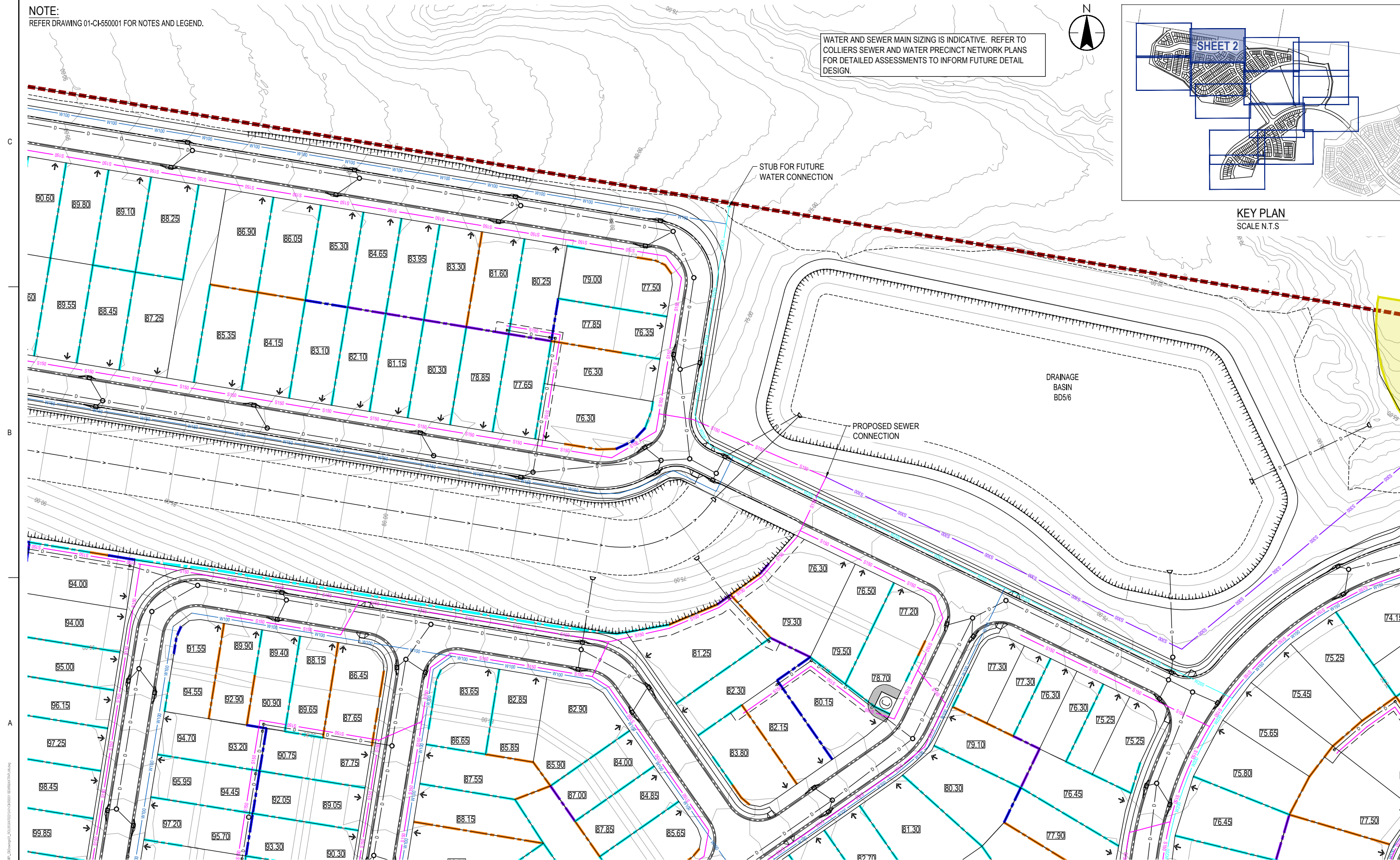
Scale at A1
AS SHOWN
Revision

NOTE:
REFER DRAWING 01-CI-550001 FOR NOTES AND LEGEND.

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KEY PLAN
SCALE N.T.S

[illegible]

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Datum
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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.1
			Disp	Disp	Child	Appd	YYYY MM DD

Title SEWER AND WATER
RETICULATION PLAN
SHEET 2

Project No.
304702212

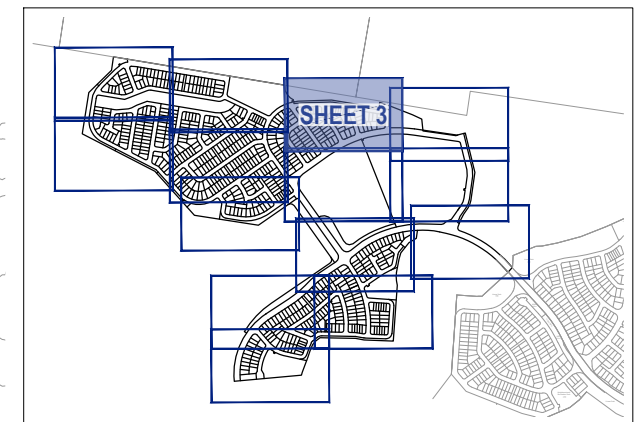
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Scale at A1
AS SHOWN

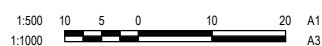
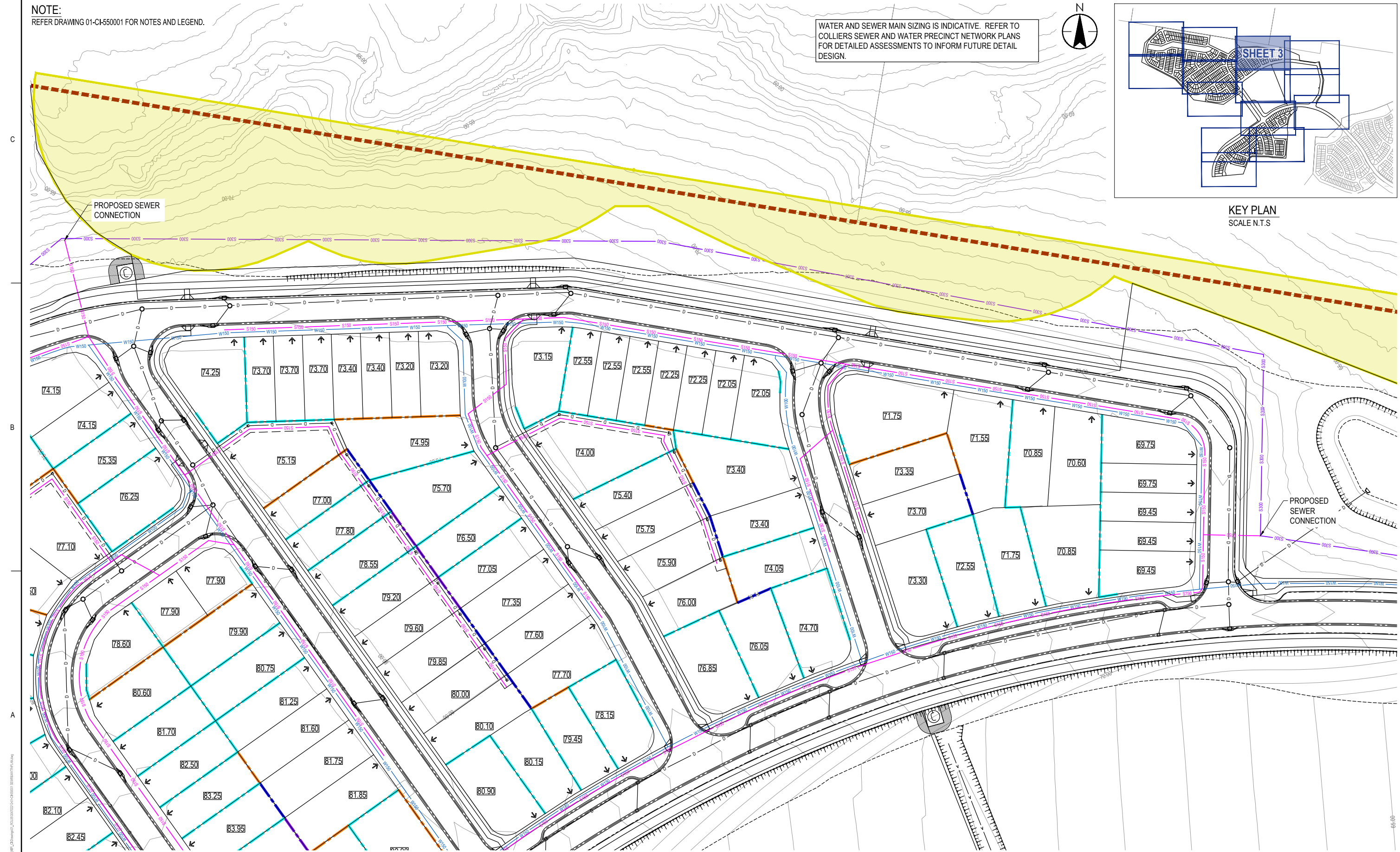
Revision
1

NOTE:
REFER DRAWING 01-CI-550001 FOR NOTES AND LEGEND.

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KEY PLAN
SCALE N.T.S

[illegible]

Issue Status

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Datum
AHD

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06
			Dwn	Dwn	Chkd	Appd	YYYY MM

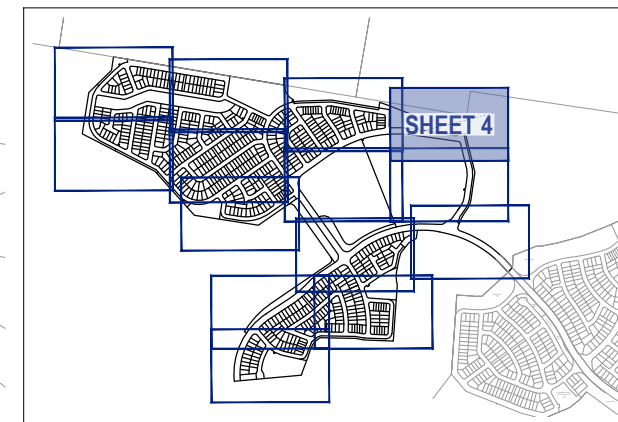
Title SEWER AND WATER
RETICULATION PLAN
SHEET 3

Project No.	304702212
Drawing No.	01-CI-55000

Scale at A1
AS SHOWN
Revision

NOTE:
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KEY PLAN
SCALE N.T.S



DRAINAGE
BASIN BD7

 PROPOSED
SEWER
CONNECTION

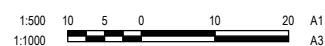
STUB FOR FUTURE
WATER CONNECTION



PROPOSED
SEWER
CONNECTION

PROPOSED WATERMAIN ENDCAP
FOR FUTURE CONNECTION TO
DISTRICT SPORTS PARK.

A

[illegible]

Issue Status

S4

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Datum
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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.0
			Diagn	Diagn	Child	Appt	YYYY MM

Title SEWER AND WATER
RETICULATION PLAN
SHEET 4

Project No. _____

Drawing No.

Drawing No.
01-CI-550004

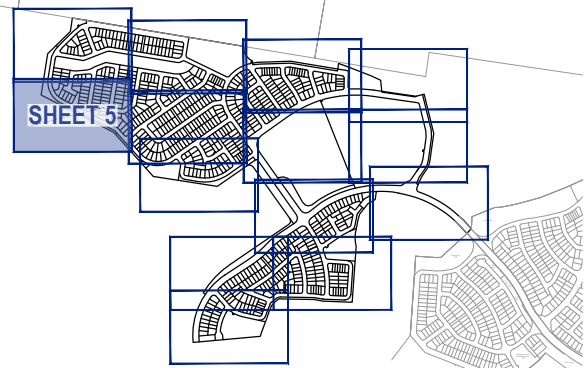
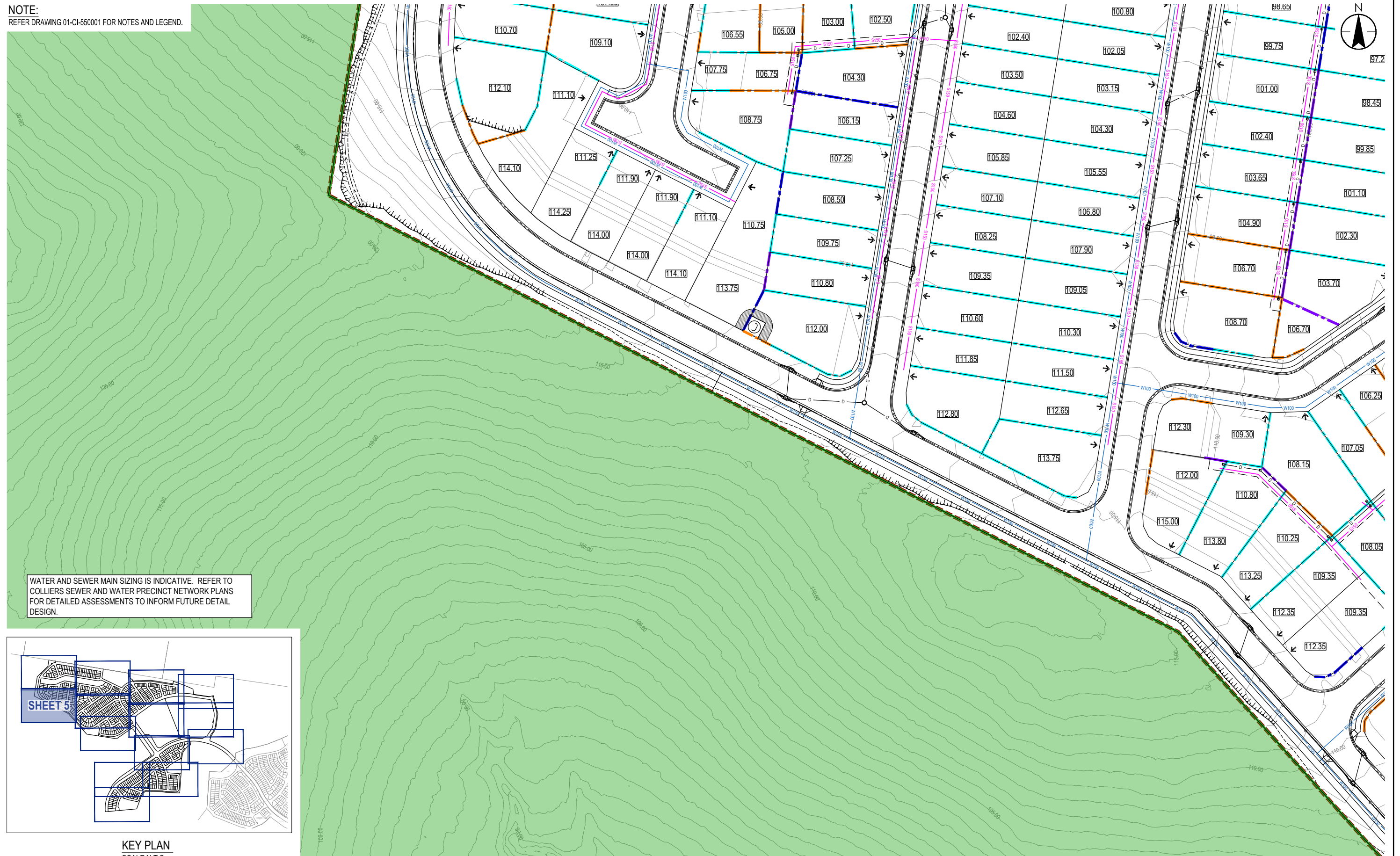
Scale at A1

Revision

Revi

ORIGINAL SHEET - ISO A4

NOTE:
REFER DRAWING 01-CI-550001 FOR NOTES AND LEGEND.



KEY PLAN
SCALE N.T.S

[illegible]

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Datum
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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Dwn	Discn	Chkd	Appd	YYYY MM DD

Title SEWER AND WATER
RETICULATION PLAN
SHEET 5

Project No.

Drawing No.
01-CI-550005

scale at A1

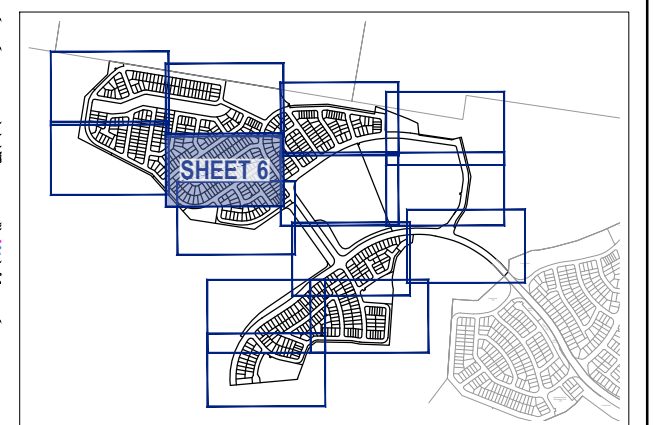
revision

1 |

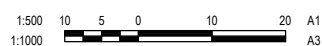
NOTE:
REFER DRAWING 01-CI-550001 FOR NOTES AND LEGEND.



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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
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Title SEWER AND WATER
RETICULATION PLAN
SHEET 6

Project No.
304702212

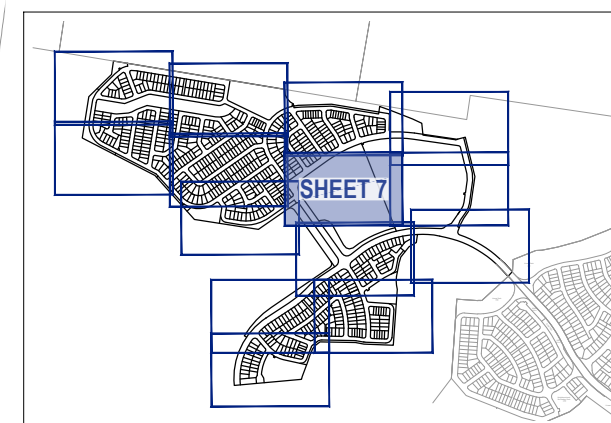
Drawing No.
01-CI-550006

Scale at A1
S SHOWN
Revision

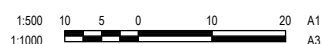
NOTE:
REFER DRAWING 01-CI-550001 FOR NOTES AND LEGEND.

STATE PRIMARY
SCHOOL

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KEY PLAN
SCALE N.T.S.

[illegible]

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

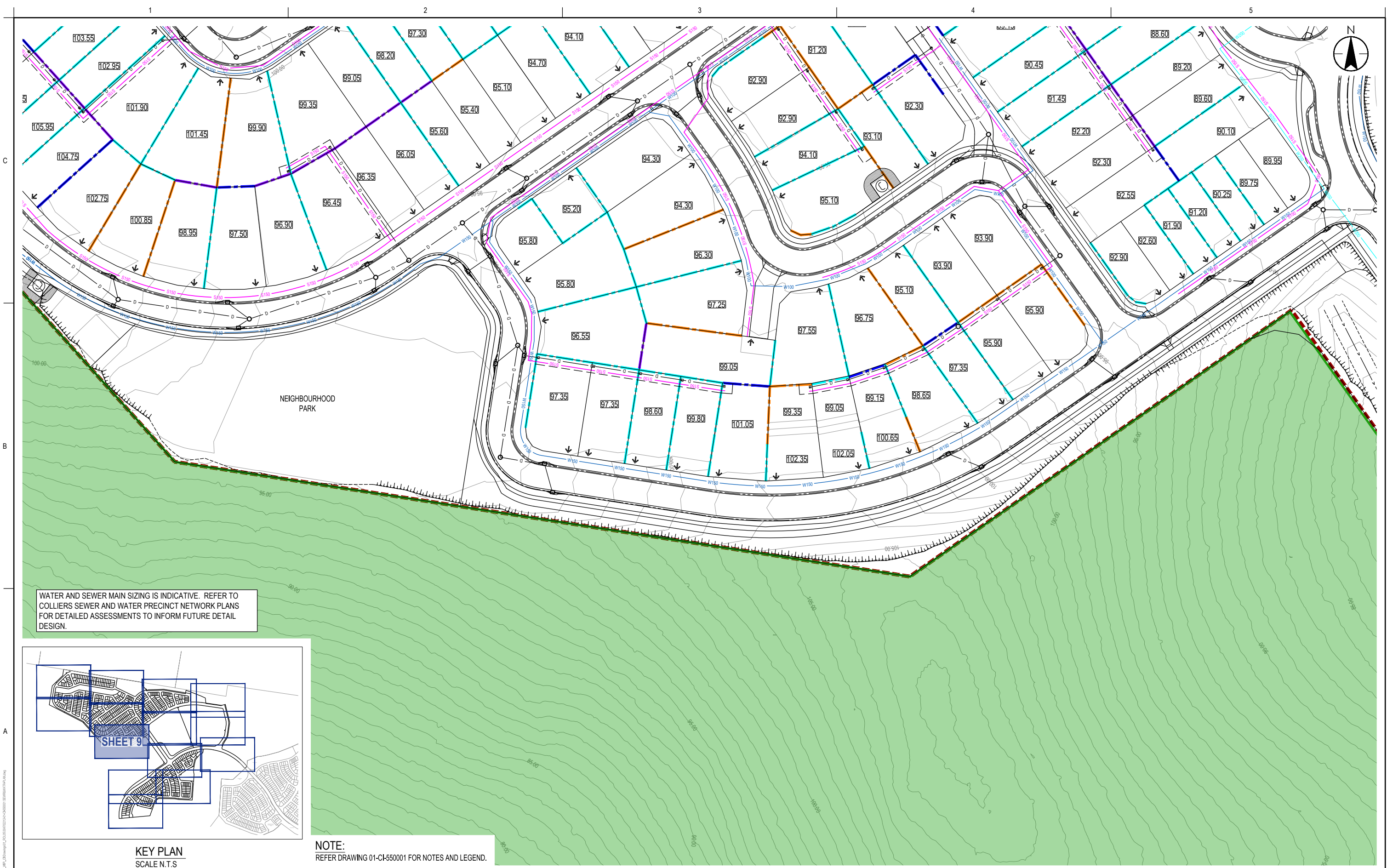
Author(s)	Ref.#	XXXX-MM-DD	RB	HS	MH	Age	XXXX-MM-DD
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Title SEWER AND WATER
RETICULATION PLAN
SHEET 7

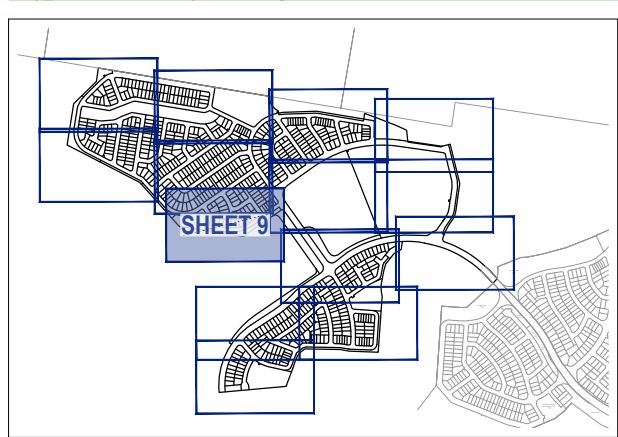
Project No.
304702212

Drawing No.
01-CI-5500

Scale at A1
AS SHOWN
Revision



WATER AND SEWER MAIN SIZING IS INDICATIVE. REFER TO COLLIERS SEWER AND WATER PRECINCT NETWORK PLANS FOR DETAILED ASSESSMENTS TO INFORM FUTURE DETAIL DESIGN.

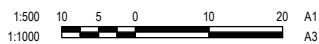
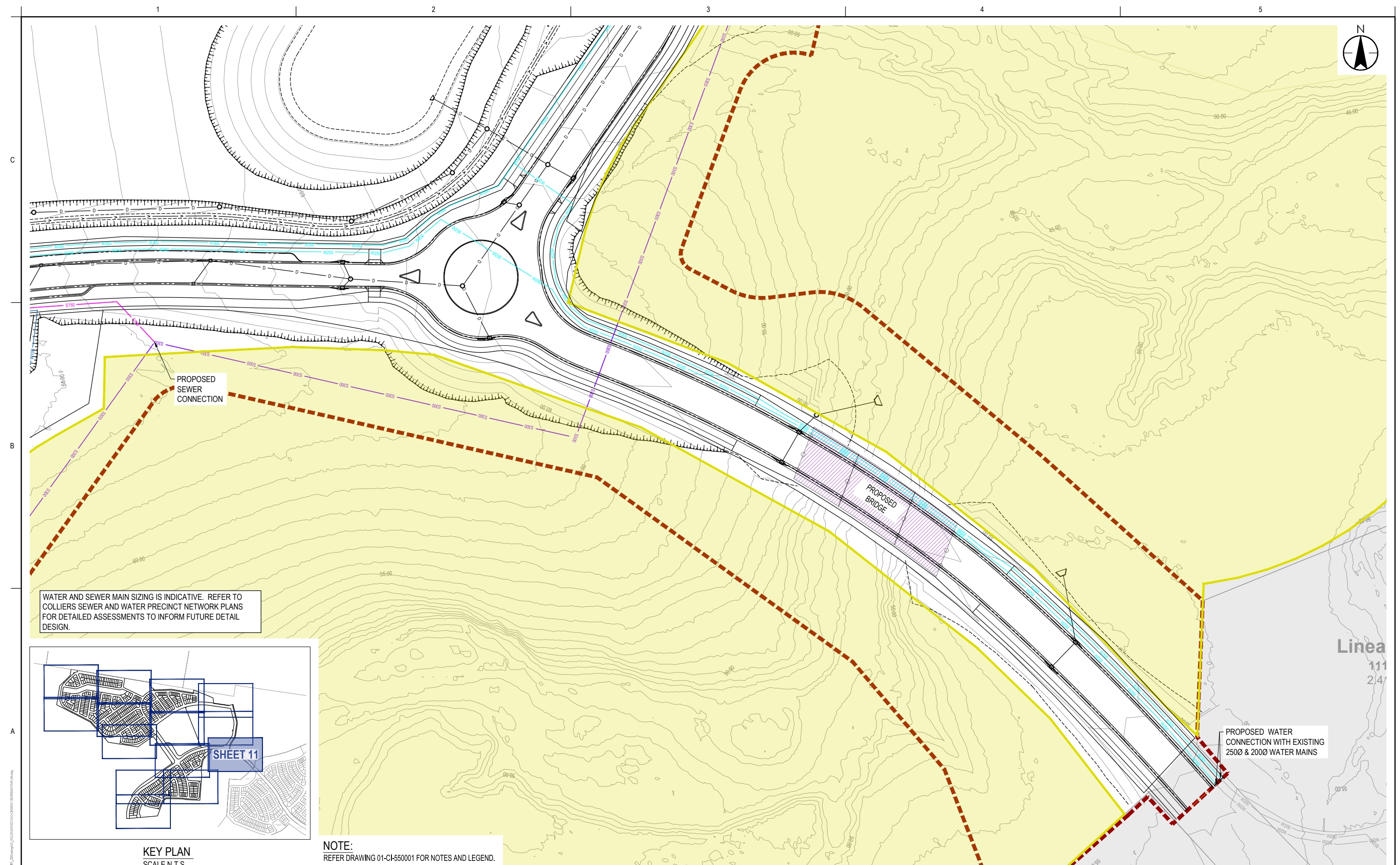


KEY PLAN
SCALE N.T.S

NOTE:
REFER DRAWING 01-CI-550001 FOR NOTES AND LEGEND.

1:500 10 5 0 10 20 A1 1:1000	1 ISSUED FOR EDO APPROVAL RB MH 2026.06.03 Issued/Revision By Appt YYYY.MM.DD	Issue Status S4 SUITABLE FOR ROL APPROVAL This document is suitable only for the purpose noted above. Use of this document for any other purpose is not permitted.	Coordinate System FS94 Datum AHD Colour Disclaimer This drawing has been documented in colour. This drawing is required to be printed in colour. Failure to do so may result in loss of information. Black and white printing may be used if specific black and white documents have been obtained from Stantec.	Stantec Copyright Reserved The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing—any errors or omissions shall be reported to Stantec without delay.	Client/Project Logo mirvac	Client/Project KINDIRA - MONARCH GLEN MIRVAC MONARCH GLEN ROLO5 LOT 2 ON SP351245 KINDIRA - WYATT ROAD, MONARCH GLEN	Title SEWER AND WATER RETICULATION PLAN SHEET 9	Project No. 304702212 Drawing No. 01-CI-550009	Scale at A1 AS SHOWN Revision 1
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C:\Users\jdoyle\OneDrive\Documents\Projects\KINDIRA - MONARCH GLEN\01-CI-550001\01-CI-550001-01.dwg

[illegible]

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

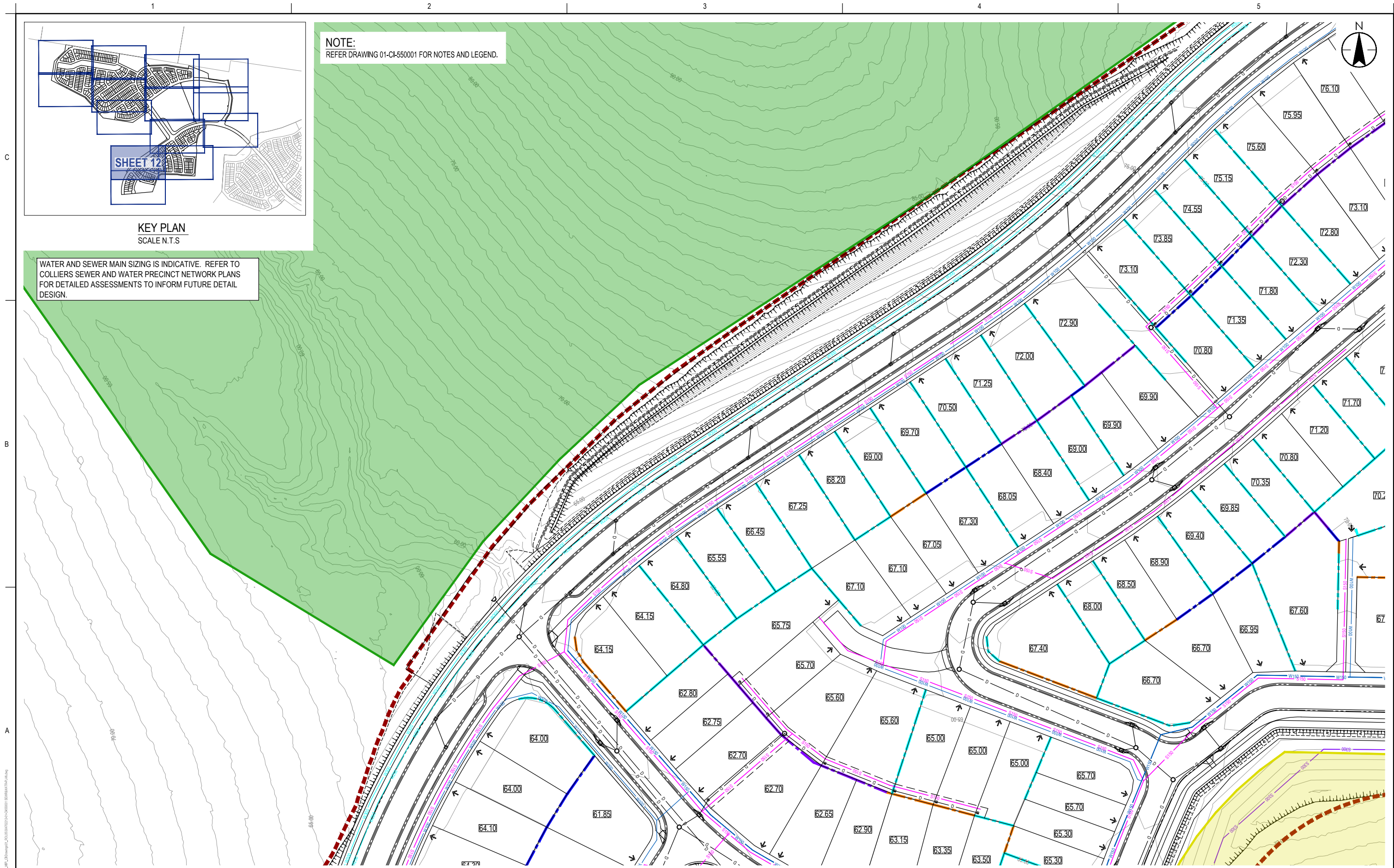
Authorised	Ref #	YYYY MM DD	RB	HS	MH	2026.06.03
			Dwn	Discn	Chkd	Appd

Title SEWER AND WATER
RETICULATION PLAN
SHEET 11

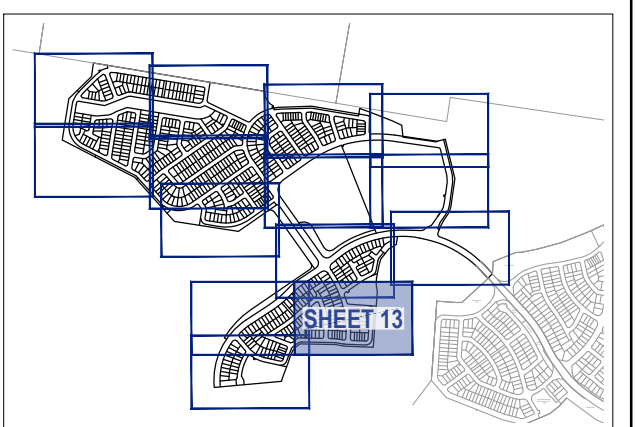
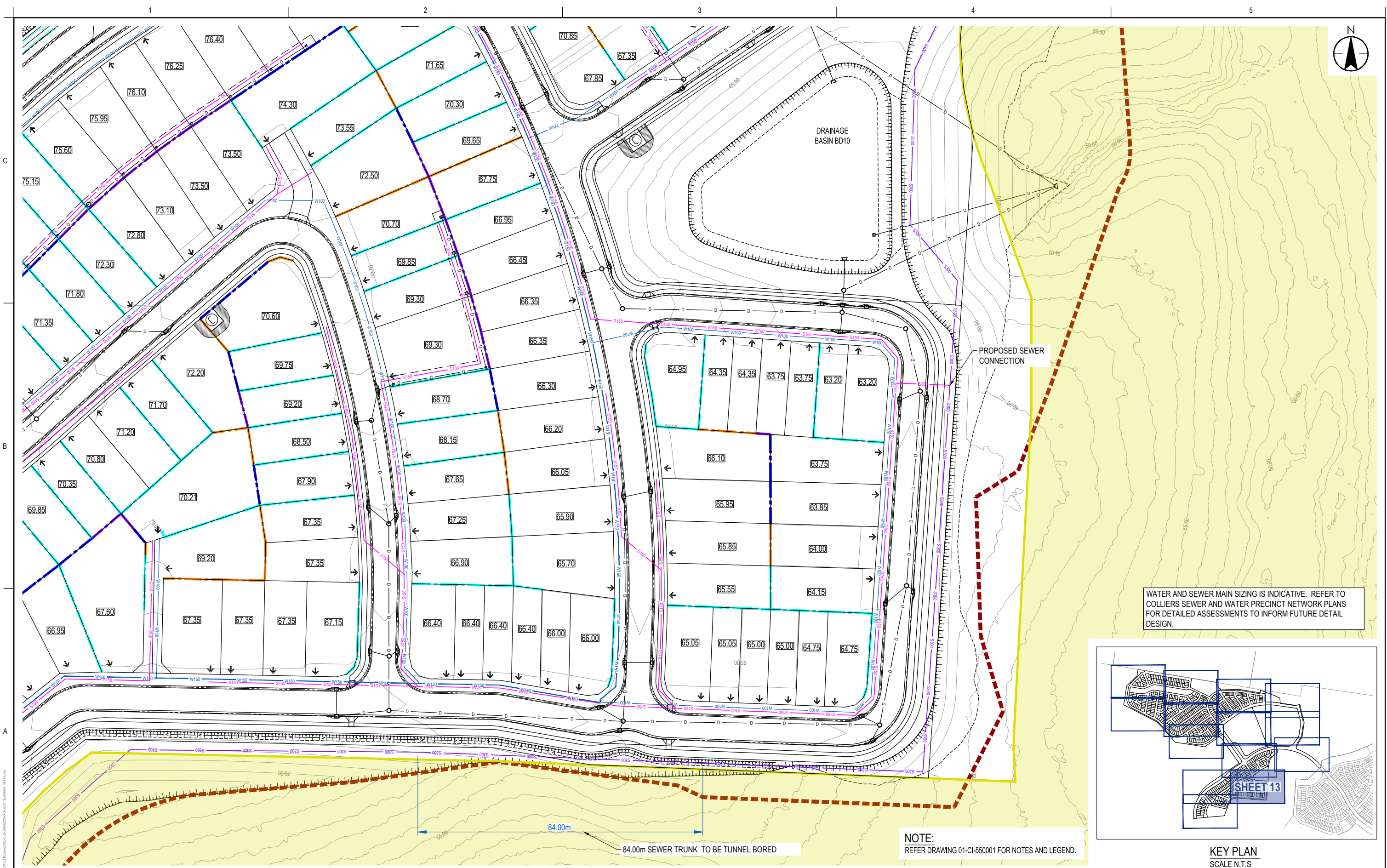
Project No.
304702212

Drawing No.
01-CI-550011

Scale at A1
AS SHOWN
Revision

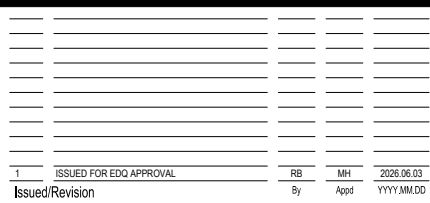
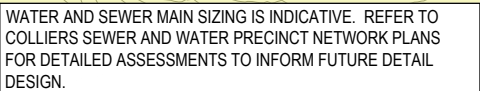


 1:500 10 5 0 10 20 A1 1:1000 A3	<table border="1"><thead><tr><th>Issued/Revision</th><th>By</th><th>Appd</th><th>YYYY.MM.DD</th></tr></thead><tbody><tr><td>1 ISSUED FOR EDO APPROVAL</td><td>RB</td><td>MH</td><td>2026.06.03</td></tr></tbody></table>	Issued/Revision	By	Appd	YYYY.MM.DD	1 ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03	Issue Status S4 SUITABLE FOR ROL APPROVAL This document is suitable only for the purpose noted above. Use of this document for any other purpose is not permitted.	Coordinate System FS94 Datum AHD Colour Disclaimer This drawing has been documented in colour. This drawing is required to be printed in colour. Failure to do so may result in loss of information. Black and white printing may be used if specific black and white documents have been obtained from Stantec.	 Stantec Copyright Reserved The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing—any errors or omissions shall be reported to Stantec without delay.	Client/Project Logo mirvac	Client/Project KINDIRA - MONARCH GLEN MIRVAC MONARCH GLEN ROLO5 LOT 2 ON SP351245 KINDIRA - WYATT ROAD, MONARCH GLEN <table border="1"><thead><tr><th>Authorised</th><th>Ref #</th><th>YYYY.MM.DD</th><th>Dwn.</th><th>Desgn.</th><th>Chkd.</th><th>Appd.</th><th>YYYY.MM.DD</th></tr></thead><tbody><tr><td></td><td></td><td></td><td>RB</td><td>HS</td><td>MH</td><td></td><td>2026.06.03</td></tr></tbody></table>	Authorised	Ref #	YYYY.MM.DD	Dwn.	Desgn.	Chkd.	Appd.	YYYY.MM.DD				RB	HS	MH		2026.06.03	Title SEWER AND WATER RETICULATION PLAN SHEET 12 Project No. 304702212 Drawing No. 01-CI-550012 Scale at A1 AS SHOWN Revision 1
		Issued/Revision	By	Appd	YYYY.MM.DD																										
1 ISSUED FOR EDO APPROVAL	RB	MH	2026.06.03																												
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1 ISSUED FOR EDO APPROVAL Issued/Revision		RB MH 2026.06.03 By Appt YYYY.MM.DD		Authorised Ref # YYYY.MM.DD Dwn. Dgn. Chkd. Appt. YYYY.MM.DD		Authorised Ref # YYYY.MM.DD Dwn. Dgn. Chkd. Appt. YYYY.MM.DD		Authorised Ref # YYYY.MM.DD Dwn. Dgn. Chkd. Appt. YYYY.MM.DD		Authorised Ref # YYYY.MM.DD Dwn. Dgn. Chkd. Appt. YYYY.MM.DD		Authorised Ref # YYYY.MM.DD Dwn. Dgn. Chkd. Appt. YYYY.MM.DD	

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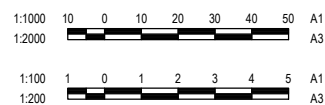


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Client/Project
 KINDIRA - MONARCH GLEN
 MIRVAC MONARCH GLEN
 ROL05 LOT 2 ON SP351245
 KINDIRA - WYATT ROAD, MONARCH GLEN

Title SEWER AND WATER RETICULATION PLAN SHEET 14		Scale at A1 AS SHOWN
Project No. 304702212		
Drawing No. 01-CI-550014	Revision 1	

 DESIGN SURFACE
 PROPOSED BRIDGE
 EXISTING SURFACE

[illegible]

Issue Status

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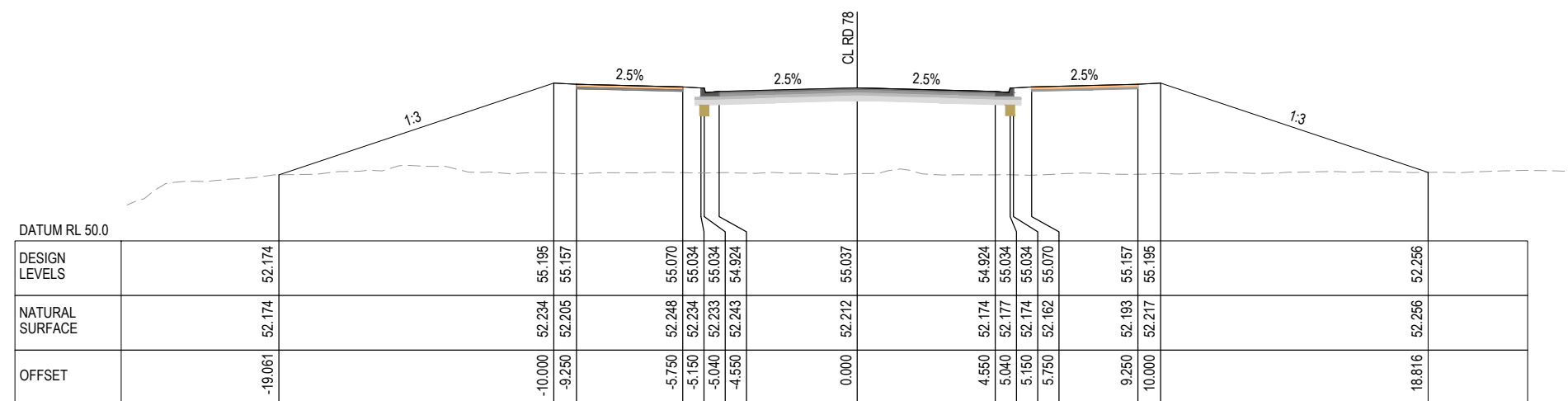
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KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Author(s)	Ref.#	YYYY-MM-DD	RB	HS	MH		2026.06.03
			Date	Date	Chief	Lead	YYYY-MM-DD

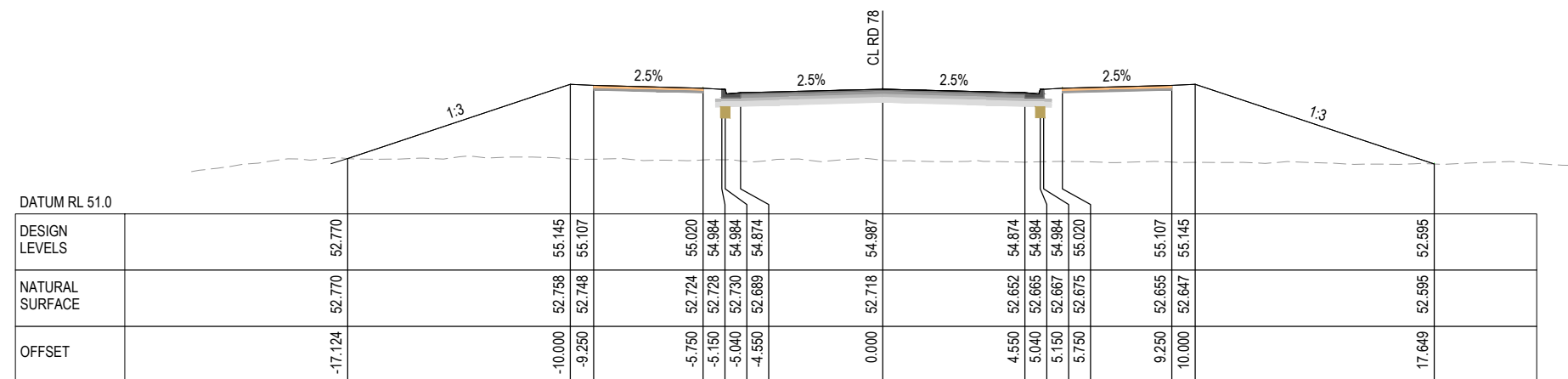
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LONGITUDINAL SECTION**

Project No.	304702212-01
Drawing No.	01-CI-570010

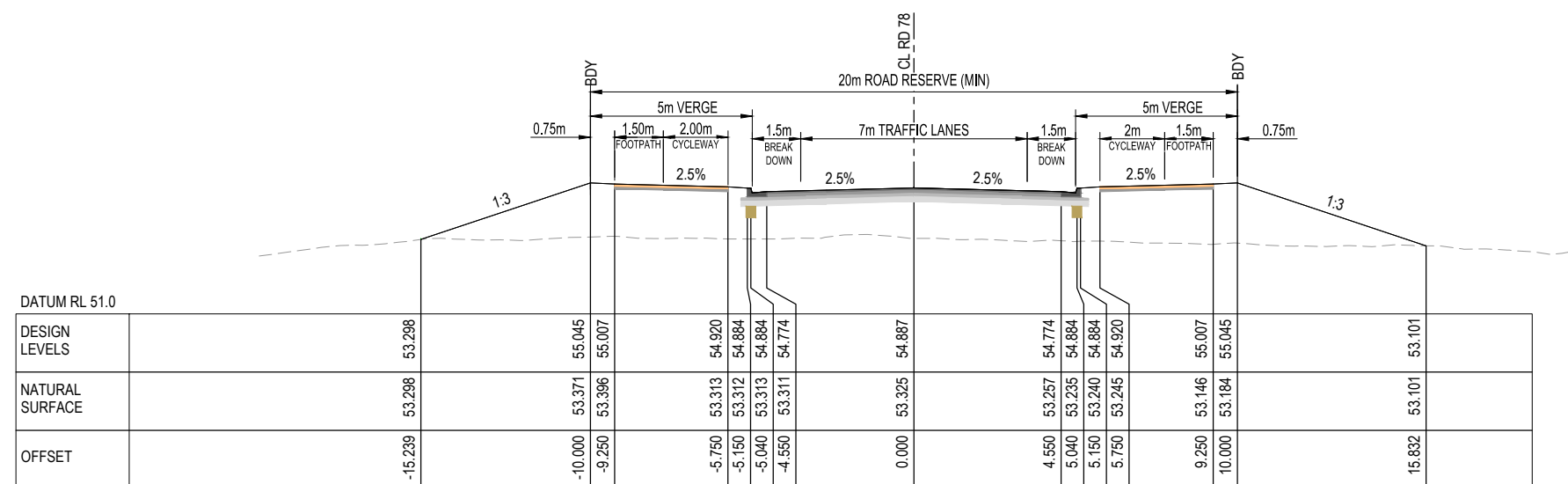
Scale at A1 AS SHOWN
Revision 1



CH. 115



CH. 110



CH. 100

ROAD 781
CROSS SECTIONS

SCALE A1 - 1 : 100
A3 - 1 : 200

A3 - 1 : 200

LEGEND:

DESIGN SURFACE
EXISTING SURFACE

— — — — — EXISTING SURFACE

[illegible]

Issue Status

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MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Dwn	Dwn	Chkd	Appd	YYYY MM DD

Title BRIDGE EMBANKMENT
LONGITUDINAL SECTION

Project No.
304702212-01

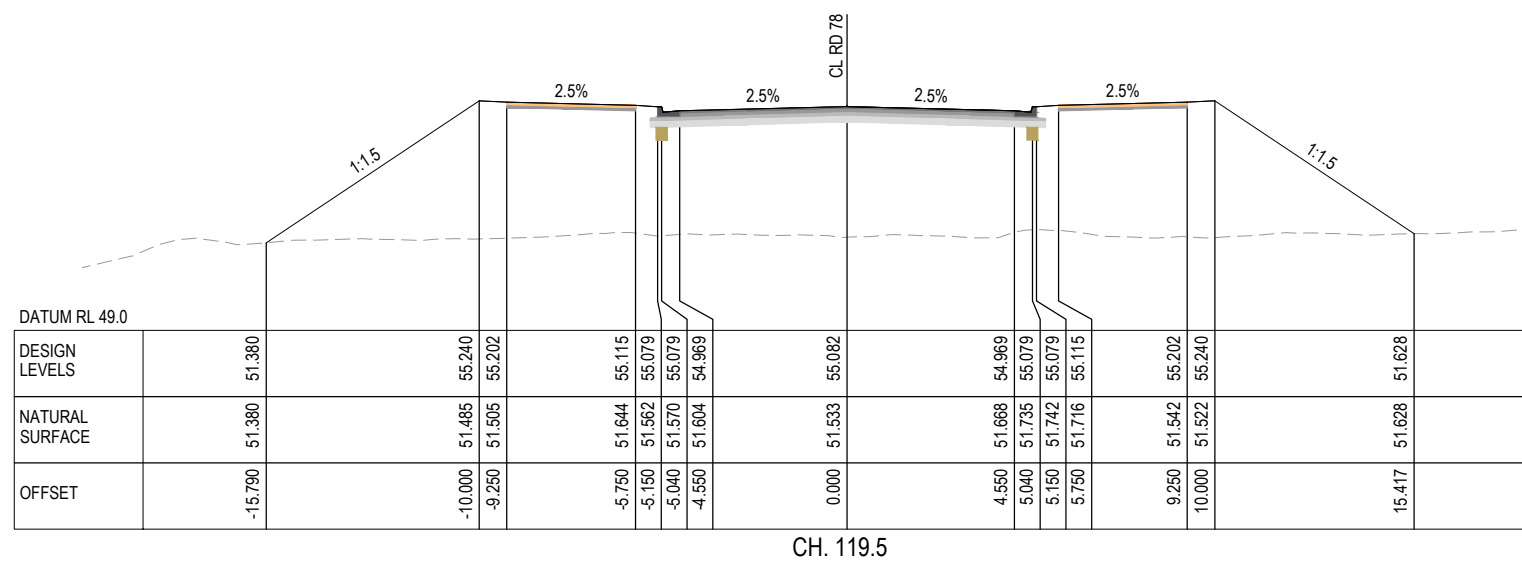
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Scale at A1

Revision

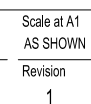
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SCALE A1 - 1 : 100
A3 - 1 : 200

DESIGN SURFACE
EXISTING SURFACE





CH. 190



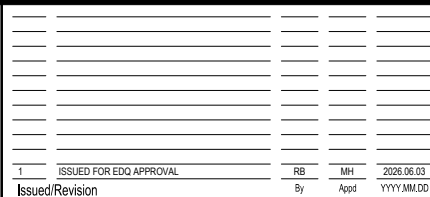
CH. 180



CH. 175

SCALE A1 - 1 : 100
A3 - 1 : 200

DESIGN SURFACE
EXISTING SURFACE



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mirtvac

Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 LOT 2 ON SP351245
KINDIRA - WYATT ROAD, MONARCH GLEN

			RB	HS	MH		2026.06.03
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Project No.
304702212-01

Drawing No.
01-CI-570022

Scale at A1
AS SHOWN

Revision
1



KINDIRA - MONARCH GLEN MIRVAC MONARCH GLEN ROL05 - SEWER TRUNK

KINDIRA - WYATT ROAD, MONARCH GLEN

Project Number: 304702212

Drawing Number: 03-CI-550000

Revision: 1

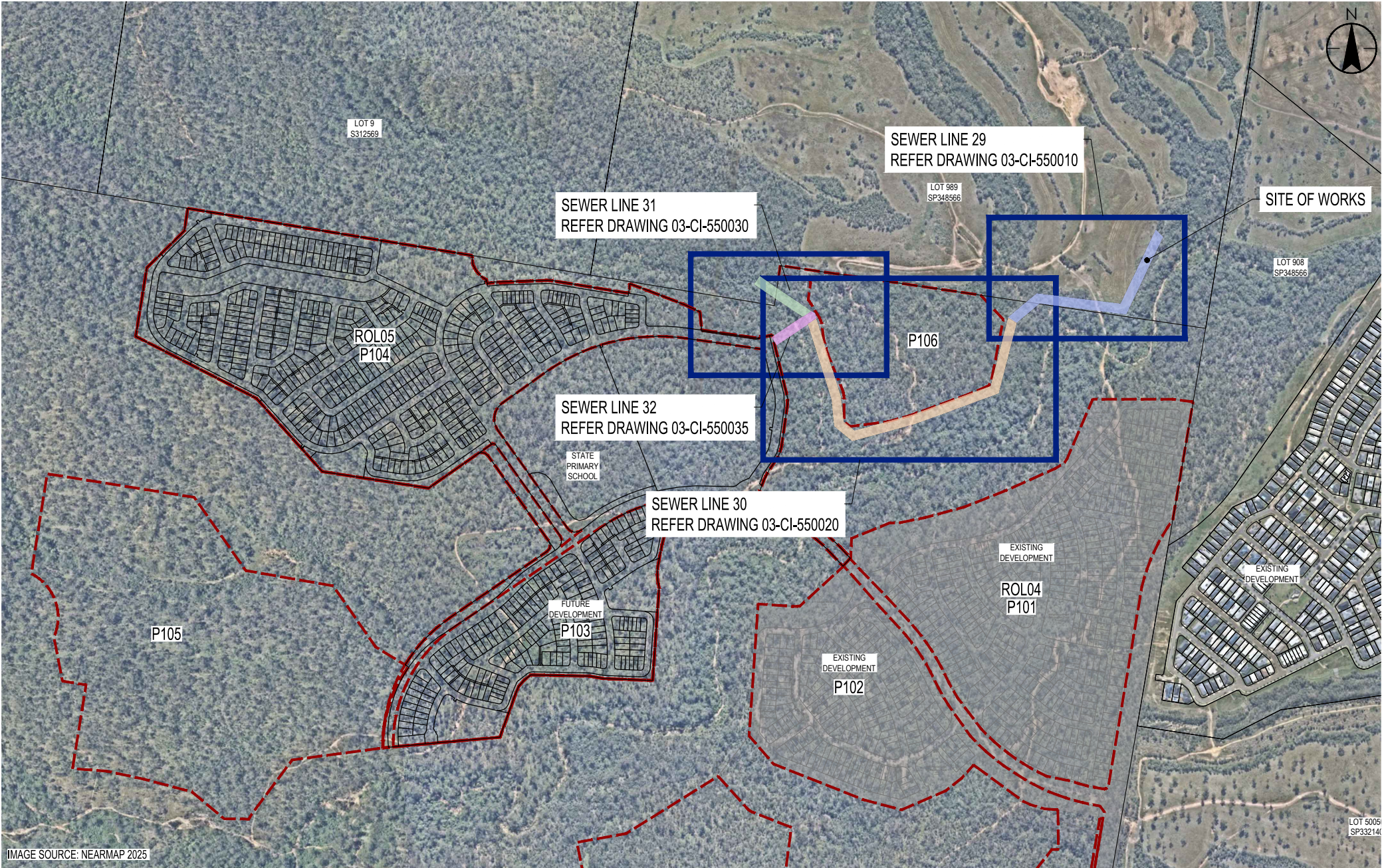
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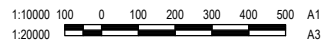
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SCHEDULE OF DRAWINGS	
DRAWING No.	DESCRIPTION
SEWERAGE	
03-CI-550000	SEWER COVER SHEET
03-CI-550001	SEWER LOCALITY PLAN AND DRAWING SCHEDULE
03-CI-550002	SEWER GENERAL NOTES AND TYPICAL DETAILS
03-CI-550010	SEWER LAYOUT PLAN - LINE 29
03-CI-550011	SEWER LONGITUDINAL SECTION - LINE 29
03-CI-550020	SEWER LAYOUT PLAN - LINE 30
03-CI-550021	SEWER LONGITUDINAL SECTION - LINE 30 - SHEET 1
03-CI-550022	SEWER LONGITUDINAL SECTION - LINE 30 - SHEET 2
03-CI-550030	SEWER LAYOUT PLAN & LONGITUDINAL SECTION - LINE 31
03-CI-550035	SEWER LAYOUT PLAN & LONGITUDINAL SECTION - LINE 32
03-CI-550040	SEWER MANHOLE DETAILS SHEET 1
03-CI-550041	SEWER MANHOLE DETAILS SHEET 2



LEGEND:

- TRUNK SEWER LINE 29 - SITE OF WORKS
- TRUNK SEWER LINE 30 - SITE OF WORKS
- TRUNK SEWER LINE 31 - SITE OF WORKS
- TRUNK SEWER LINE 32 - SITE OF WORKS
- PRECINCT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED LOT BOUNDARY
- (PROPOSED LOTS ARE FUTURE DEVELOPMENT INFORMATION)



1	ISSUED FOR EDO APPROVAL	HK	MH	2026.06.03
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mirvac

Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 - SEWER TRUNK
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY.MM.DD	Dwn.	HS	MH	2026.06.03
			Desgn.	Chkd.	Appt.	YYYY.MM.DD

Title
SEWER LOCALITY PLAN
AND DRAWING SCHEDULE

Project No.
304702212

Drawing No.
03-CI-550001

Scale at A1
AS SHOWN

Revision
1



11



A



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SG.1.	ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT SEQ SEWERAGE DESIGN AND CONSTRUCTION (D&C) CODE SPECIFICATIONS AND STANDARD DRAWINGS.
SG.2.	UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
SG.3.	ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY UNITYWATER AT THE DEVELOPER'S COST. ALLOTMENTS REQUIRING A PROPERTY CONNECTION FROM EXISTING SEWERS SHALL BE PROVIDED BY UNITYWATER AT THE DEVELOPERS COST.
SG.4.	ALL PRODUCTS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE SEQ "ACCEPTED PRODUCTS AND MATERIALS" LIST.
SG.5.	THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS
SG.6.	ALIGNMENT:- UNLESS NOTED OTHERWISE, SEWERS AND MAINTENANCE STRUCTURES SHALL BE LOCATED AS FOLLOWS: 1.75m FROM FRONT ALLOTMENT BOUNDARIES WITHIN ROAD RESERVE, 1.00m FROM SIDE ALLOTMENT BOUNDARIES
SG.7.	EACH ALLOTMENT SHALL BE SERVED BY A DN100 PVC (OR DN110 PE) PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN150 PVC (OR DN160 PE) PROPERTY CONNECTION SHALL BE PROVIDED.
SG.8.	PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 500mm, MAXIMUM OF 750mm.
SG.9.	PIPE BEDDING, EMBEDMENT, AND BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH THE SEQ SEWERAGE CODE. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY UNITYWATER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
SG.10.	WHERE SEWERS HAVE A GRADE OF 1 IN 20 (5.0%) OR STEEPER, BULKHEADS AND TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWERAGE CODE.
SG.11.	WHERE SHOWN ON THE DRAWINGS, EXISTING SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWERAGE CODE.
SG.12.	BENCH MARK AND LEVELS TO AHD.
SG.13.	EXISTING DWELLINGS SERVED BY A SEPTIC SYSTEM, SHALL BE CONNECTED TO THE NEW SEWER BY A LICENSED PLUMBER IN ACCORDANCE WITH THE RELEVANT STATUTORY AND REQUIREMENTS. THE SEPTIC SYSTEM, INCLUDING TRENCHES SHALL BE REMOVED AT THE DEVELOPERS COST. ALL FIXTURES SHALL BE UPGRADED IF REQUIRED BY PLUMBING CODE.
SG.14.	PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE ENTIRE LOT AT A GRADE OF 1 IN 60 (MINIMUM), AND A MAXIMUM DEPTH OF PROPERTY CONNECTION OF 1.50 m, UNLESS OTHERWISE STATED.
SG.15.	ALL SEWERS SHALL BE INSPECTED BY CCTV IN ACCORDANCE WITH THE SEQ SEWERAGE CODE.
SG.16.	ALL SEWER MAINS AND MAINTENANCE STRUCTURES SHALL BE VACUUM TESTED IN ACCORDANCE WITH THE SEQ SEWERAGE CODE.
SG.17.	MANHOLES WILL REQUIRE PROTECTION COATINGS IN THE FOLLOWING CIRCUMSTANCES: ALL 1500mm DIA AND LARGER MANHOLES; MANHOLES GREATER THAN 4m IN DEPTH; (HDPE INTERNAL LINER) MANHOLES ON SEWERS > 300mm NOMINAL BORE; MANHOLES SERVICING INDUSTRIAL ESTATES; AND SPS COLLECTION MANHOLES.

ALL ENVIRONMENT PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION AND CLEARING COMMENCING.

- A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, WHERE POSSIBLE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- C. WHERE POSSIBLE, TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHALL BE UNDERTAKEN BY AN APPROVED ARBORIST.

E. TOPSOIL AND SUBSOIL MATERIALS SHALL BE STOCKPILED SEPARATELY.

F. CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

G. ACID SULPHATE SOILS IF FOUND ARE TO BE MANAGED IN ACCORDANCE WITH THE APPROVED ACID SULPHATE SOIL MANAGEMENT PLAN AND THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL TO THE SATISFACTION OF THE SUPERINTENDENT.

H. PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.

I. PRE-DISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

- J. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- K. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- L. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF A CREEK.

SP.1. ALL SEWERS LESS THAN 4.0m DEEP SHALL BE PE100 SDR21 BUTT WELDED NUSEWER UNLESS NOTED OTHERWISE. ALL SEWER GREATER THAN OR EQUAL TO 4.0m DEEP SHALL BE SDR17 UNLESS NOTED OTHERWISE.

SP.2. FOR PROPERTY CONNECTION DETAILS REFER TO SEQ STANDARD DRAWINGS SEQ-SEW-1106-1 TO 1106-8.

SP.3. FOR MAINTENANCE HOLE DETAILS REFER TO SEQ STANDARD DRAWINGS SEQ-SEW-1300-1, SEQ-SEW-1301-2 TO 1301-11. LADDERS, STEP IRONS AND LANDINGS ARE NOT PERMITTED WITHIN MAINTENANCE HOLES. FOR BENCHING DETAILS REFER TO SEQ STANDARD DRAWINGS SEQ-SEW-1302-1, 1304-1, 1305-1. FOR PIPE CONNECTION DETAILS REFER TO SEQ-SEW-1313-1 (PE & PVC). FOR OTHER PIPE MATERIALS REFER TO SEQ-SEW-1302-1. FOR DROP TYPES REFER TO SEQ-SEW-1303-1, 1306-1.

SP.4. FOR MAINTENANCE SHAFT AND TERMINAL ENTRY POINT DETAILS REFER TO SEQ STANDARD DRAWINGS SEQ-SEW-1315-1 AND SEQ-SEW-1316-1.

SP.5. TRENCH INSTALLATION SHALL COMPLY WITH SEQ-SEW-1200-2, 1201-1, 1202-1, 1203-1, 1204-1, 1205-1. TRENCH TYPES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

LOCATION	TRENCH TYPE	SERVICE DEPTH
PRIVATE PROPERTY, FOOTPATHS AND NEW ROADS.	3	< 4.0m
PRIVATE PROPERTY, FOOTPATHS AND NEW ROADS.	4	> 4.0m
EXISTING SEALED ROADS	14 (CROSSING SEALED ROADS) 15, 17 (ALONG SEALED ROADS)	

DETECTABLE MARKING TAPE SHALL BE LAID ABOVE ALL BURIED NON-METALLIC PIPES ALONG THE TOP OF THE EMBEDMENT ZONE OR AT 1m BELOW THE SURFACE (WHICHEVER IS CLOSER TO GROUND SURFACE). TRENCH BACK FILL FOR ALL SEWER GREATER THAN OR EQUAL TO 4.0m DEEP SHALL BE TO LEVEL 1 IN ACCORDANCE WITH AS 3798. GEOTECHNICAL ENGINEER TO BE NOMINATED TO SUPERINTENDENT AND UNITYWATER PRIOR TO COMMENCEMENT OF BACKFILLING. MONTHLY REPORTS TO BE PROVIDED TO THE SUPERINTENDENT AND UNITYWATER CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.

SP.6. FOR DEEP SEWERS IT IS RECOMMENDED THAT CONSTRUCTION TOLERANCES (INC. OVALITY) ARE ASSESSED AT 2m OF BACKFILL. CONTRACTOR TO ENSURE SUITABLE BACKFILLING AND COMPACTION PROCESSES DURING BACKFILLING OPERATION TO ENSURE CONSTRUCTION TOLERANCES ARE ACHIEVED. FINAL OVALITY TEST AFTER ALL EARTHWORKS AND FILLING SHALL ACCOMPANY THE ON-MAINTENANCE APPLICATION

SP.7. MAINTENANCE STRUCTURE COVERS SHALL BE AS3996 CLASS D FOR ROADWAYS, CLASS B FOR PRIVATE PROPERTY AND BOLT DOWN BELOW Q100 FLOOD LEVEL. CONCRETE INFILL COVERS NOT ACCEPTED. REFER TO SEQ STANDARD DRAWINGS SEQ-SEW-1308-1 AND SEQ-SEW-1308-5 TO 1308-11.

SP.8. MAINTENANCE STRUCTURE LIDS SHALL BE CONSTRUCTED TO FOLLOW SLOPE OF BATTERS, 100mm (NOMINAL) ABOVE FILL LEVEL OR FLUSH WITH PAVEMENTS, FOOTPATHS AND DRIVEWAYS.

SP.9. MAINTENANCE HOLE BASE LINERS SHALL BE COMPLAS OR SIMILAR F.R.P.

SP.10. SEWER EASEMENTS ARE 3.0m WIDE UNLESS NOTED OTHERWISE.

SP.11. IN A NUSEWER RETICULATION SYSTEM WHERE GROUND CONDITIONS DICTATE THE USE OF TRENCH SHIELDS ON THE SEWER MAIN, AND A HOUSE CONNECTION TYPE B (SLOPED) IS NOMINATED. THE CONTRACTOR MAY REPLACE WITH A TYPE C (VERTICAL) AT THE DISCRETION OF THE SUPERINTENDENT.

SP.12. LANDSCAPING AND PLANTING TO BE IN ACCORDANCE WITH UNITYWATER PLANTING GUIDE.

1. ALL DESIGN OF GRAVITY SEWERAGE NETWORK WORKS SHALL BE IN ACCORDANCE WITH THE GRAVITY SEWERAGE CODE OF AUSTRALIA, SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION VERSION 2.0 (JULY 2019), PART 1 : PLANNING AND DESIGN AND PART 3: DRAWINGS.
2. ALL CONSTRUCTION OF GRAVITY SEWERAGE NETWORK WORKS SHALL BE IN ACCORDANCE WITH THE GRAVITY SEWERAGE CODE OF AUSTRALIA, SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION VERSION 2.0 (JULY 2019), PART 2: CONSTRUCTION AND PART 3: DRAWINGS.
3. ALL PRODUCTS AND MATERIALS USED IN CONSTRUCTION OF GRAVITY SEWERAGE NETWORK WORKS SHALL BE IN ACCORDANCE WITH THE SOUTHEAST QUEENSLAND CODE ACCEPTED CIVIL INFRASTRUCTURE PRODUCTS AND MATERIAL LIST, AND THE MOST RECENT VERSION OF THE LIST IN EFFECT AT THE DATE OF THE CONSTRUCTION PRE-START MEETING.
4. CONSTRUCTION WORKS SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL BE PERMITTED TO CONNECT INTO UNITY WATER'S SEWERAGE NETWORK.
5. ALL LIVE WORKS ASSOCIATED WITH THE SEWERAGE NETWORK SHALL BE CARRIED OUT AT THE DEVELOPER'S COST, EITHER:
 - a) BUT HE CONSTRUCTOR, FOR "MINOR" SEWERAGE CONNECTION WORKS, DEFINED IN THE A&C MANUAL UNDER SECTION PRE-START MEETING, UNDER THE INSPECTION OF THE CONSTRUCTION CERTIFIER WHO SHALL FOLLOW THE PLANNED NETWORK INTERVENTION PROCESS, OR
 - b) BY QUOTATION REQUEST TO UNITYWATER PRIVATE WORKS, FOR SEWERAGE CONNECTION WORKS NOT MEETING THE CRITERIA FOR CLASSIFICATION AS 'MINOR'..
6. THE CONSTRUCTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT ASSET OWNERS AND AUTHORITIES BEFORE COMMENCING WORKS.
7. PRIOR TO COMMENCEMENT OF ANY VARIATION WORKS, THE CONSTRUCTOR MUST FIRST OBTAIN APPROVAL FORM THE REGISTERED MAJOR CONNECTIONS CERTIFIER.

NOTE:
REFER TO DRAWING 03-CI-550010 FOR SEWER LIVE WORKS TABLE

Project
NDIRA - MONARCH GLEN
RVAC MONARCH GLEN
OL05 - SEWER TRUNK
NDIRA - WYATT ROAD, MONARCH GLEN

Title
SEWER GENERAL NOTES
AND TYPICAL DETAILS

Project No.
304702212

Scale at A1
AS SHOWN

Drawing No.
03-CI-550002

Revision
1

Scale at A1 AS SHOWN
Revision 1

C

B

A

MAINT. HOLE/SHAFT No.

MH / MS COVER TYPE	D	D	D	D
MH / MS TYPE	C3 PE LINED	C3 PE LINED	C3 PE LINED	C3 PE LINED
BRANCH DROP TYPE \ BEND RADIUS				
LINE DEFLECTION & BRANCHES		71°	-47°	30° -36°

STRUCTURE LEGEND:

TP1, TP2 - TANGENT POINT (START/END)

LRB - LONG RADIUS BEND

C1 - Ø1050 MANHOLE SIZE \ TYPE (CAST-IN-SITU)

C2 - Ø1200 MANHOLE SIZE \ TYPE (CAST-IN-SITU)

C3 - Ø1500 MANHOLE SIZE \ TYPE (CAST-IN-SITU)

C4 - Ø1800 MANHOLE SIZE \ TYPE (CAST-IN-SITU)

C5 - Ø2000 MANHOLE SIZE \ TYPE (CAST-IN-SITU)

C6 - Ø2400 MANHOLE SIZE \ TYPE (CAST-IN-SITU)

NOTE:

- ALL MANHOLES TO BE PE LINED AS PER SEQ STD DRAWINGS SEQ-SPS-1407-1 AND 1407-2.
- MANHOLES ARE TO BE INSTALLED WITH DETAIL SHOWN ON DRAWING 03-CI-550040 & 03-CI-550041.

PROP. DESCRIPTION:

RD = ROAD/VERGE

PP = PRIVATE PROPERTY

OS = OPEN SPACE

COVER TYPE:

B = NON-TRAFFICABLE

D = TRAFFICABLE

D BD = TRAFFICABLE WITH BOLT DOWN

(SEQ-SEW-1308-2 TO SEQ-SEW-1308-11)

MH DROP TYPES:

AS PER LW-SEW-DWG-2120

DROP TYPES:

V = DROP THROUGH BASE

Z => 750mm INTERNAL DROP

EMBEDMENT(##):

REFER TO 03-CI-550002 SP.5 AND TRENCH DETAIL

NOTE:

CONTRACTOR TO UNDERTAKE GEOTECHNICAL INVESTIGATION AND PROVIDE RESULTS FOR THE SOIL MODULUS AND ALLOWABLE BEARING PRESSURE

DATUM

36.000

PROPERTY DESCRIPTION

NOM. DIAMETER, TYPE, CLASS

GRADE (1 IN X)

LENGTH

DN450, PVC-U SN20

DN450, PVC-U SN20

DN375, PVC-U SN20

400

400

400

175.000

175.000

68.717

EMBEDMENT TYPE

DEPTH OF INVERT BELOW FSL

5.888

5.888

7.805

7.805

8.474

8.474

7.453

INVERT LEVEL (IL)

40.938

40.938

41.376

41.376

41.813

41.813

41.985

FINISHED
SURFACE LEVEL (FSL)

46.826

46.826

49.180

49.180

50.287

50.287

49.438

EXISTING
SURFACE LEVEL (ESL)

46.826

46.826

49.180

49.180

50.287

50.287

49.438

CHAINAGE (CH)

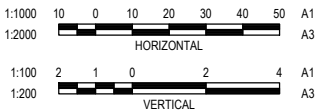
0.000

175.000

350.000

418.717

LINE 29



1	ISSUED FOR EDO APPROVAL	HK	MH	2026.06.03
Issued/Revision		By	Appt	YYYY.MM.DD

Issue Status
S4
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Datum
AHD

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Client/Project Logo



Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 - SEWER TRUNK
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY.MM.DD	Dwn.	Dgn.	Chkd.	Appt.	YYYY.MM.DD
------------	-------	------------	------	------	-------	-------	------------

Title
SEWER LONGITUDINAL SECTION
LINE 29

Project No.

304702212

Drawing No.

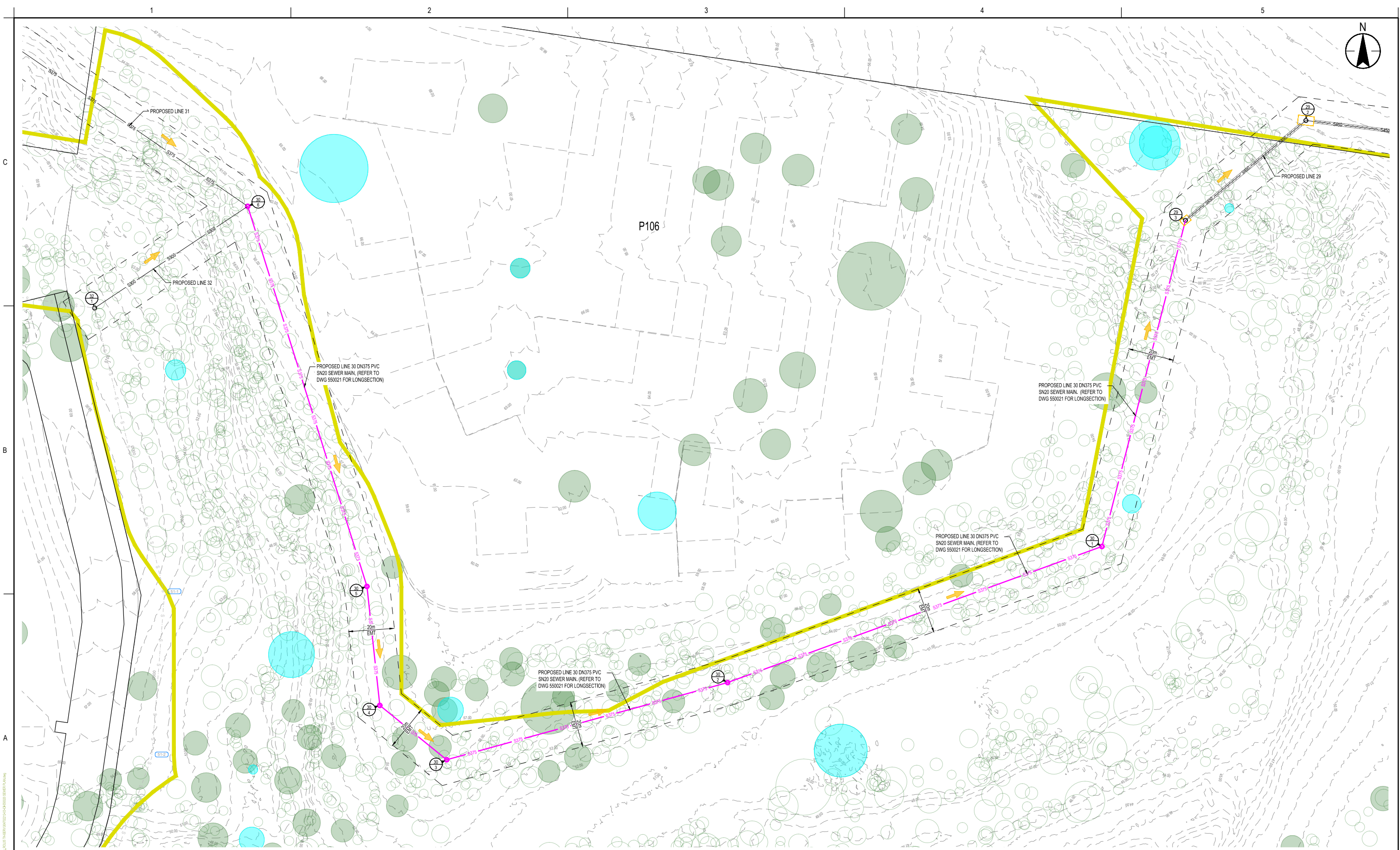
03-CI-550011

Scale at A1

AS SHOWN

Revision

1



PLAN
SCALE - 1:750

1:750 15 0 15 30 A1
1:1500

1	ISSUED FOR EDO APPROVAL	HK	MH	2026.06.03
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Client/Project Logo

Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROLO5 - SEWER TRUNK
KINDIRA - WYATT ROAD, MONARCH GLEN

Title
SEWER LAYOUT PLAN
LINE 30

Project No.
304702212

Drawing No.
03-CI-550020

Scale at A1
AS SHOWN

Revision
1

C:\Users\jdoyle\OneDrive\Documents\Projects\KINDIRA - MONARCH GLEN\03-CI-550020\03-CI-550020.dwg
2026.06.03 14:00:00
JDOYLE

C

B

A

STRUCTURE NAME / No.	29-3	30-1	30-2	30-3	30-4	30-5
MH / MS COVER TYPE	D	D	D	D	D	D
MH / MS TYPE	Ø1500 X	Ø1500 X	Ø1500 X	Ø1500 X	Ø1500 X	Ø1500 X
BRANCH DROP TYPE \ BEND RADIUS						
LINE DEFLECTION & BRANCHES	29	56°	5	54°	45°	-11°

STRUCTURE LEGEND:
TP1, TP2 - TANGENT POINT (START/END)
LRB - LONG RADIUS BEND
C1 - Ø1050 MANHOLE SIZE \ TYPE (CAST-IN-SITU)
C2 - Ø1200 MANHOLE SIZE \ TYPE (CAST-IN-SITU)
C3 - Ø1500 MANHOLE SIZE \ TYPE (CAST-IN-SITU)
C4 - Ø1800 MANHOLE SIZE \ TYPE (CAST-IN-SITU)
C5 - Ø2000 MANHOLE SIZE \ TYPE (CAST-IN-SITU)
C6 - Ø2400 MANHOLE SIZE \ TYPE (CAST-IN-SITU)
NOTE:
1. ALL MANHOLES TO BE PE LINED AS PER SEQ STD DRAWINGS SEQ-SPS-1407-1 AND 1407-2.
2. MANHOLES ARE TO BE INSTALLED WITH DETAIL SHOWN ON DRAWING 03-CI-550040 & 03-CI-550041.

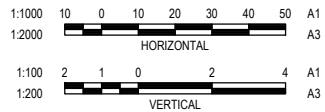
PROP. DESCRIPTION:
RD = ROAD/VERGE
PP = PRIVATE PROPERTY
OS = OPEN SPACE
COVER TYPE:
B = NON-TRAFFICABLE
D = TRAFFICABLE
D BD = TRAFFICABLE WITH BOLT DOWN (SEQ-SEW-1308-2 TO SEQ-SEW-1308-11)
MH DROP TYPES:
AS PER LW-SEW-DWG-2120
DROP TYPES:
V = DROP THROUGH BASE
Z => 750mm INTERNAL DROP
EMBEDMENT(##):
REFER TO 03-CI-550002 SP.5 AND TRENCH DETAIL
NOTE:
CONTRACTOR TO UNDERTAKE GEOTECHNICAL INVESTIGATION AND PROVIDE RESULTS FOR THE SOIL MODULUS AND ALLOWABLE BEARING PRESSURE

DATUM RL	38.000					
PROPERTY DESCRIPTION						
PIPE SIZE (mm), CLASS		DN375, PVC-U SN20	DN375, PVC-U SN20	DN375, PVC-U SN20	DN375, PVC-U SN20	DN375, PVC-U SN20
GRADE (1 IN X)		36.1	400	400	400	400
LENGTH		147.892	175.000	128.015	37.834	52.580

EMBEDMENT TYPE						
DEPTH OF INVERT BELOW FSL	7.453 7.453	6.682 6.682	6.478 6.478	9.338 9.338	8.477 8.477	8.258
INVERT LEVEL (IL)	41.985 41.985	46.081 46.081	46.519 46.519	46.839 46.839	46.934 46.934	47.065
FINISHED SURFACE LEVEL (FSL)	49.438 49.438	52.763 52.763	52.997 52.997	56.177 56.177	55.411 55.411	55.323
EXISTING SURFACE LEVEL (ESL)	49.438 49.438	52.763 52.763	52.997 52.997	56.177 56.177	55.411 55.411	55.323
CHAINAGE (CH)	0.000	147.892	322.892	450.907	488.741	541.321

LINE 30

C:\Users\jdoe\OneDrive\Documents\Projects\03-CI-550021\Drawings\03-CI-550021-01.dwg
Drawing Title: Sewer Longitudinal Section - Line 30
Drawing No: 03-CI-550021-01
Scale: AS SHOWN
Author: jdoe
Date: 2026.06.03



Issue/Revision	By	Appd	2026.06.03	YYYY.MM.DD
1	ISSUED FOR EDO APPROVAL	HK	MH	

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Client/Project Logo



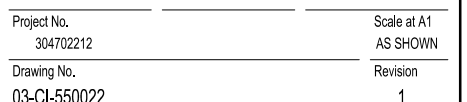
Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 - SEWER TRUNK
KINDIRA - WYATT ROAD, MONARCH GLEN

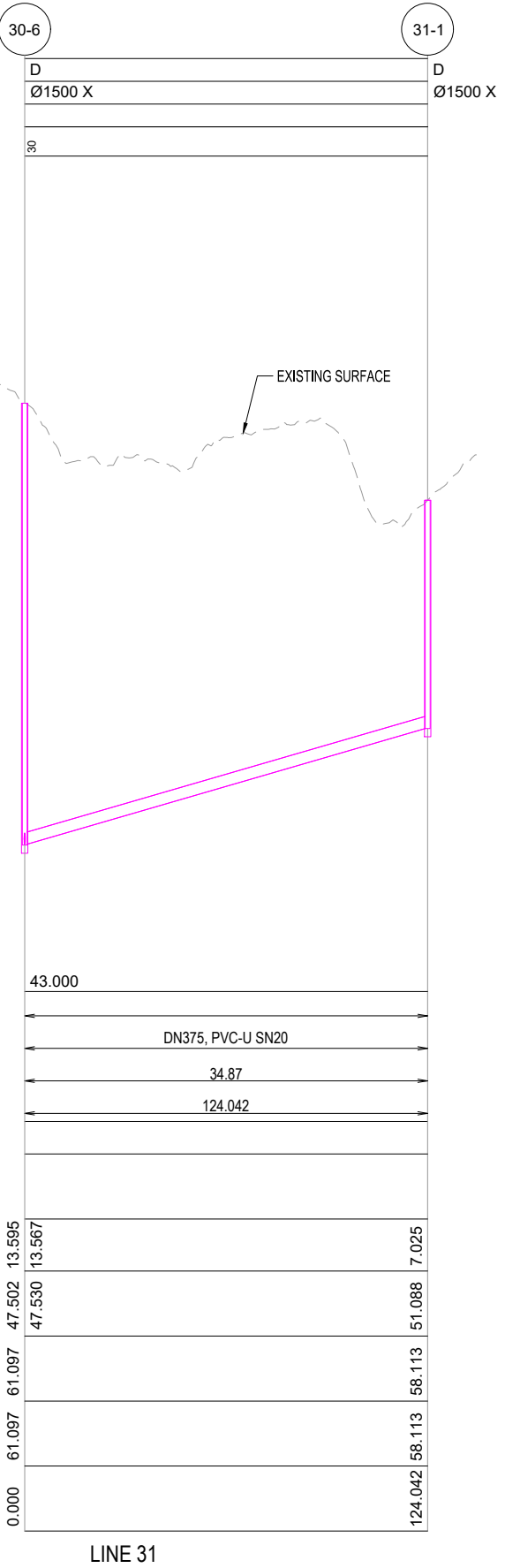
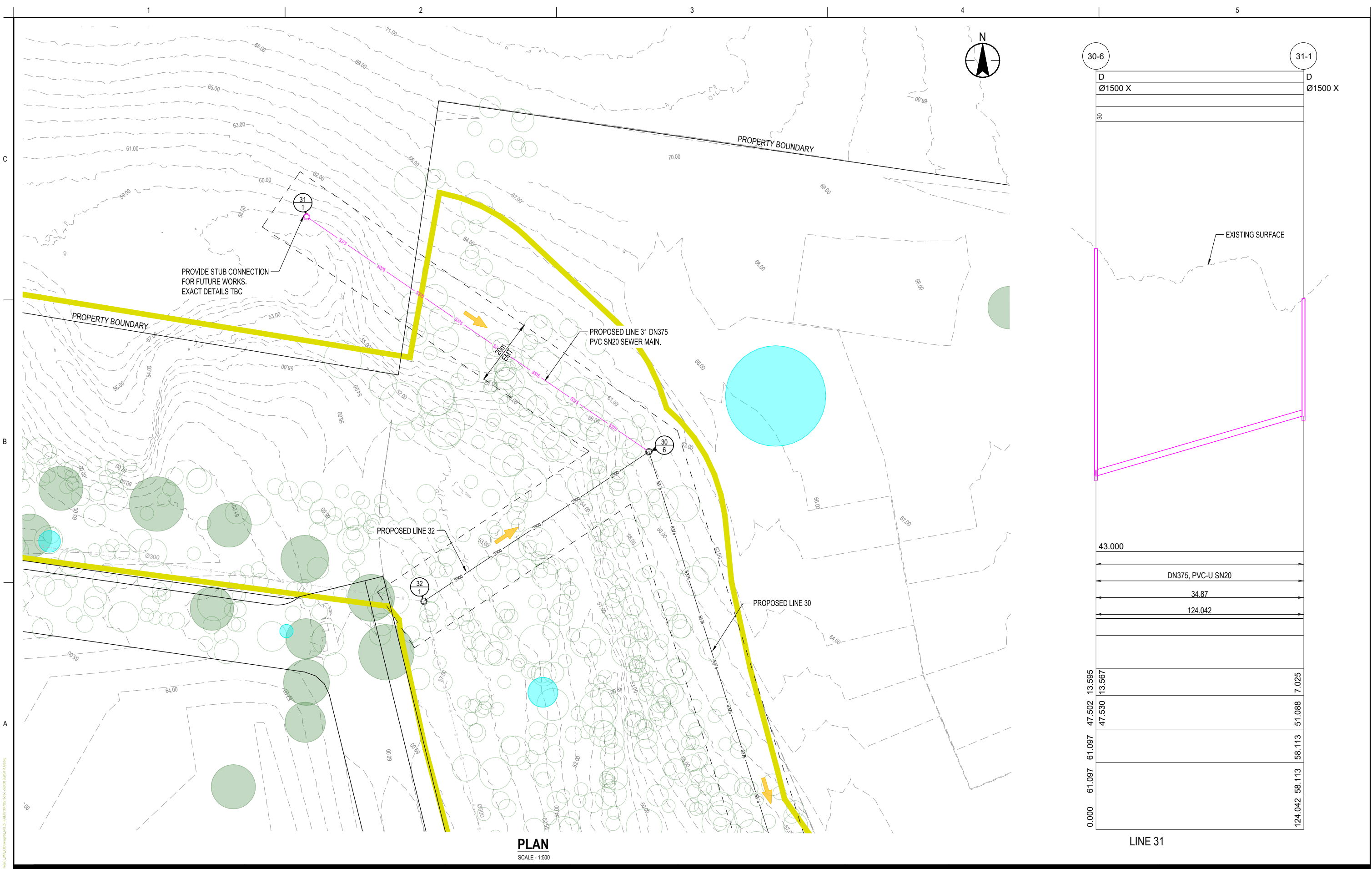
Authorised	Ref #	YYYY.MM.DD	Dwn.	Dgn.	Chkd.	Appr.	2026.06.03	YYYY.MM.DD
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Title
SEWER LONGITUDINAL SECTION - LINE 30
SHEET 1

Project No. 304702212	Scale at A1 AS SHOWN
Drawing No. 03-CI-550021	Revision 1

(30-6)

LINE 30 CONTINUED



1:500
1:1000

10

5

0

10

20

A1
A3

1

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HK

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2026.06.03

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Client/Project Logo

Client/Project

KINDIRA - MONARCH GLEN

MIRVAC MONARCH GLEN

ROL05 - SEWER TRUNK

KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised

Ref #

YYYY.MM.DD

Dwn.

Design

Chkd.

Appt.

YYYY.MM.DD

Client/Project

KINDIRA - MONARCH GLEN

MIRVAC MONARCH GLEN

ROL05 - SEWER TRUNK

KINDIRA - WYATT ROAD, MONARCH GLEN

2026.06.03

Title

SEWER LONGITUDINAL SECTION

LINE 31

Project No.

304702212

Drawing No.

03-CI-550030

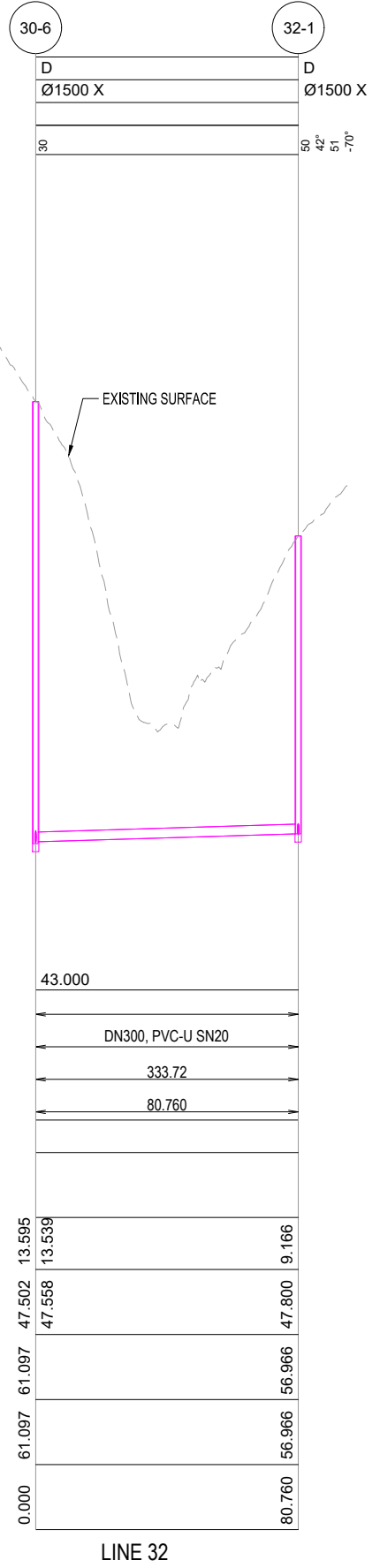
Scale at A1

AS SHOWN

Revision

1

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Drawing Title: Sewer Longitudinal Section
Drawing No: 03-CI-550030
Date: 2025-06-03
Author: jdoyle
Checked: jdoyle
Approved: jdoyle



1:500
1:1000

10

5

0

10

20

A1
A3

1	ISSUED FOR EDO APPROVAL	HK	MH	2026.06.03
Issued/Revision		By	Appt	YYYY.MM.DD

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Client/Project Logo

Client/Project
KINDIRA - MONARCH GLEN
MIRVAC MONARCH GLEN
ROL05 - SEWER TRUNK
KINDIRA - WYATT ROAD, MONARCH GLEN

Title
SEWER LONGITUDINAL SECTION
LINE 32

Project No.
304702212

Drawing No.
03-CI-550035

Scale at A1
AS SHOWN

Revision
1

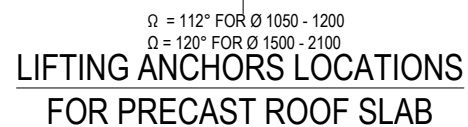
Authorised	Ref #	YYYY.MM.DD	Dwn.	HS	MH	2026.06.03
			Desgn.	Chkd.	Appt.	YYYY.MM.DD

C:\Users\jdoyle\OneDrive\Documents\304702212_Kindira_Monarch_Glen\Project Files\03_Civil\Longitudinal Section\03-CI-550035_Sewer Line 32.dwg
Drawing Title: Sewer Longitudinal Section
Drawing No: 03-CI-550035
Revision: 1

1. CONCRETE CLASS
TO BE N40/10. EXPOSURE CLASSIFICATION B1 EXTERNAL, B2 INTERNAL. 3.0m MAX POUR HEIGHT. CONTROL JOINTS (C.J.) REQUIRED AS DETAILED WITH APPROVED WATERSTOP.
2. STEEL REINFORCEMENT
REINFORCING STEEL TO BE IN ACCORDANCE WITH AS / NZS 4671. DEFORMED BARS GRADE D500M. ALL REINFORCING STEEL TO BE ACRS CERTIFIED. OVER TO REINFORCING STEEL TO BE 55 UNLESS SHOWN OTHERWISE.
3. INTERNAL LINING
MHs TO BE PE LINED AS PER SEQ-SPS-1407-1 & SEQ-SPS-1407-2 IN ACCORDANCE WITH CLAUSE 7.6.2 OF THE GRAVITY SEWERAGE CODE OF AUSTRALIA
4. ALL EXPOSED EDGES
TO HAVE 15 x 15 CHAMFERS UNLESS SHOWN OTHERWISE.
5. REFER PROJECT DRAWINGS
FOR REFERENCE HEIGHT, SETTING OUT REFERENCE POINT, SIZE AND HEIGHT OF CHAMBERS.
6. LIVE LOAD
ROOF DESIGNED FOR W8 LOADING (IMPACT FACTOR 100 PERCENT, ULTIMATE LIVE LOAD FACTOR 1.5).
7. LIFTING ANCHORS
TO BE 'SWIFTLIFT' OR EQUIVALENT, 1.8 TONNE MAX , GALVANISED TO AS/NZS 4680 AND FITTED TO MANUFACTURES SPECIFICATIONS.
8. COVERS AND FRAMES
SHALL COMPLY WITH THE REQUIREMENTS OF AS 3996 CLASS D DESIGN LOAD.
9. DIMENSIONS
ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



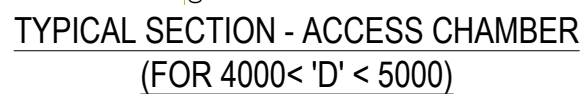
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A3 - 1 : 20



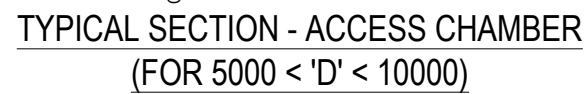
SCALE A1 - 1 : 25
A3 - 1 : 50



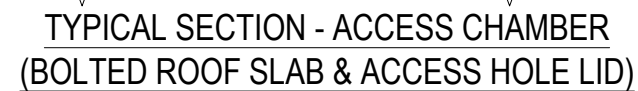
SCALE A1 - 1 : 25
A3 - 1 : 50



SCALE A1 - 1 : 20
A3 - 1 : 40



SCALE A1 - 1:20
A3 - 1:40



SCALE A1 - 1 : 20
A3 - 1 : 40

[illegible]

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Client/Project
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MIRVAC MONARCH GLEN
ROL05 - SEWER TRUNK
KINDIRA - WYATT ROAD, MONARCH GLEN

Authorised	Ref #	YYYY MM DD	RB	HS	MH		2026.06.03
			Disc	Disc	Child	Appd	YYYY MM DD

Title SEWER MANHOLE DETAILS
SHEET 2

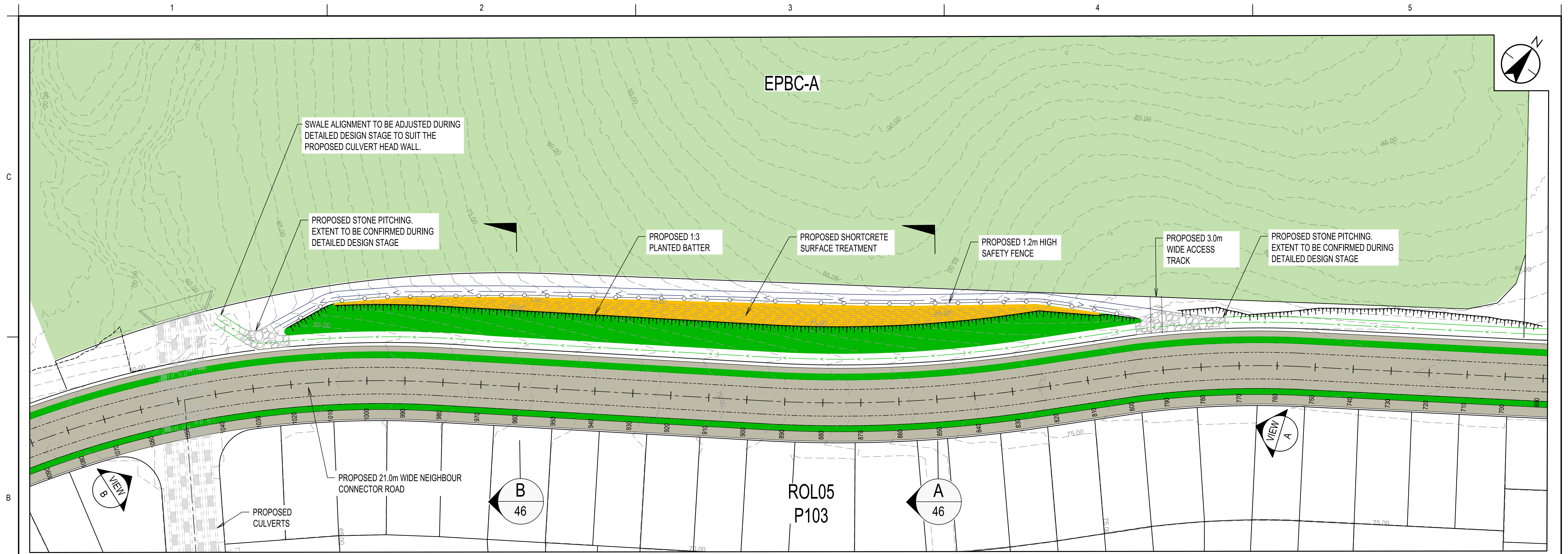
Project No.
304702212

Drawing No.
03-CI-550041

Scale at A1
AS SHOWN
Revision

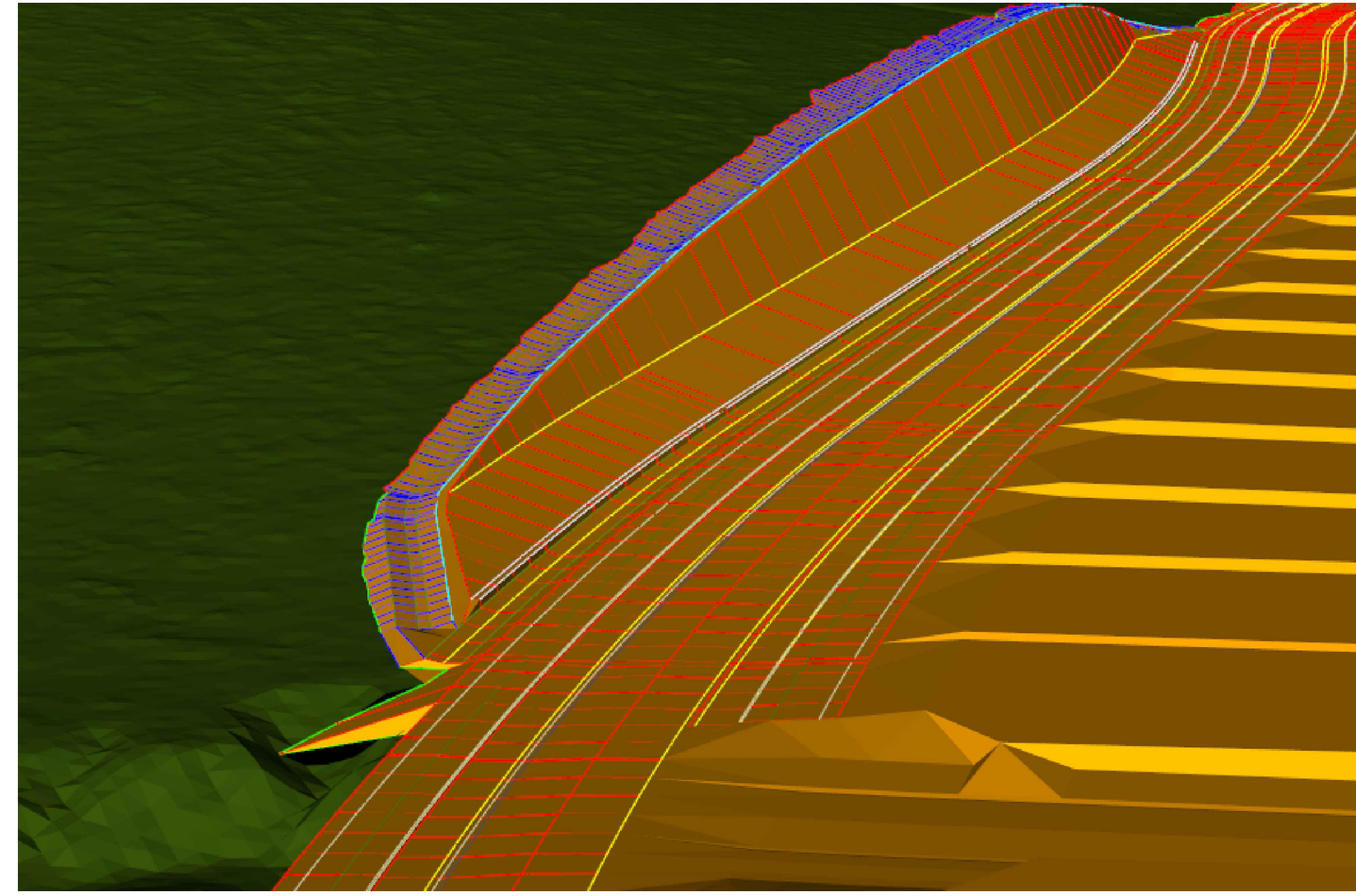
Appendix B: Neighbourhood Connector Batter Interface Plan and Sections



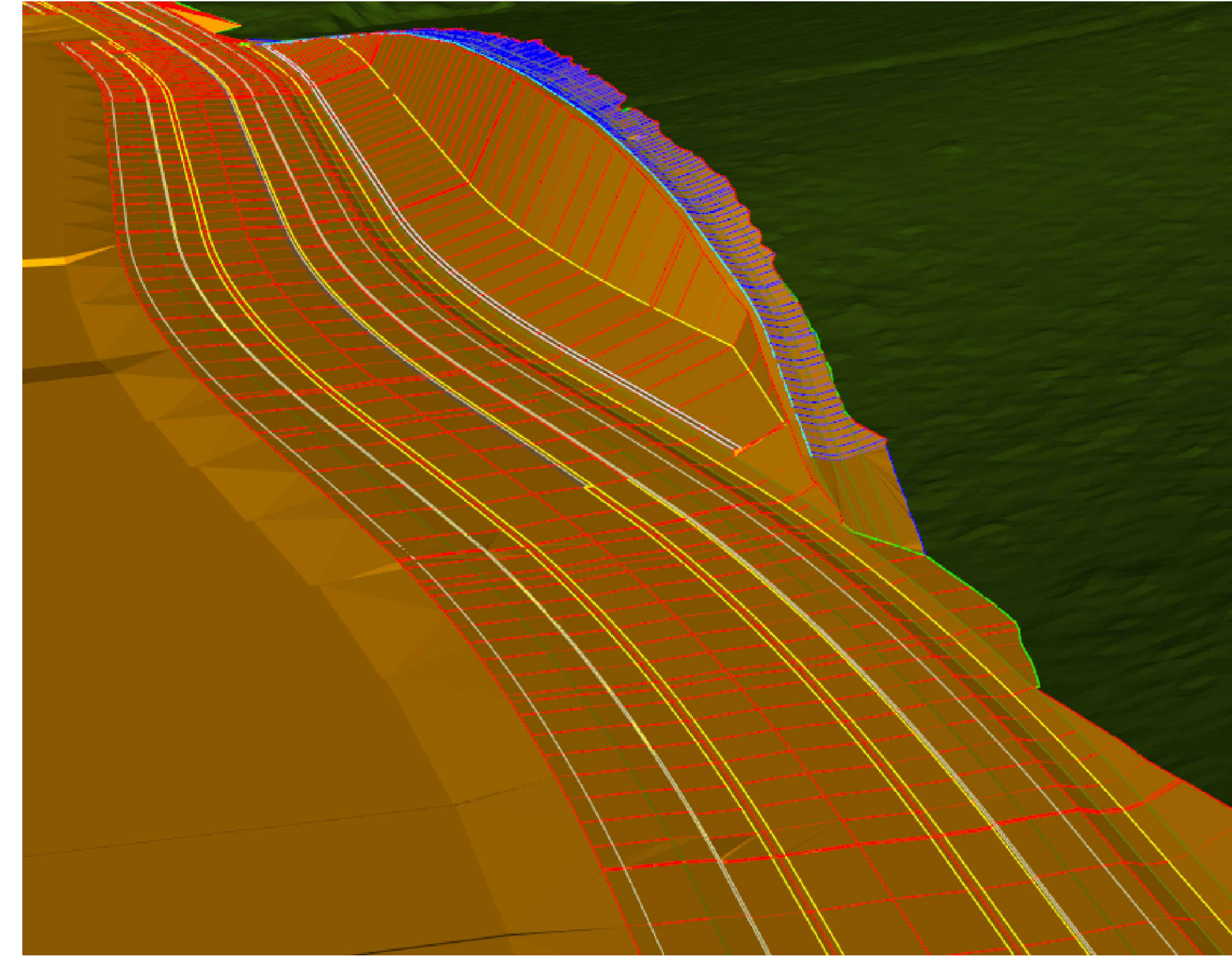


LAYOUT PLAN
SCALE A1 - 1 : 500
A3 - 1 : 1000

- LEGEND
- ROAD CENTRELINE
 - PROPOSED SWALE
 - PROPOSED CONCRETE SWALE
 - TOP OF BATTER
 - TOE OF BATTER
 - EPBC-A CONSERVATION AREA
 - ASPHALT/CONCRETE PAVEMENT
 - TURFED AREA
 - RICK RIP RAP
 - SHORTCRETE
 - PROPOSED FENCE



VIEW-B

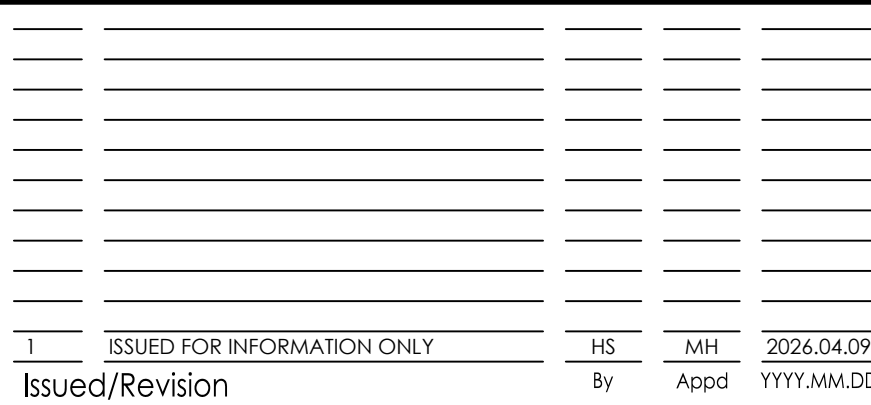


VIEW-A

SCALE 1:750

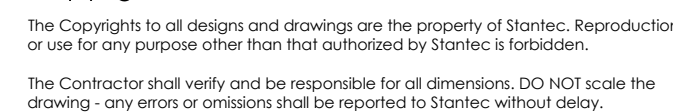
A1

1 ISSUED FOR INFORMATION Issued/Revision	By Appd 2026.04.09 YYYY.MM.DD	Issue Status S2 SUITABLE FOR INFORMATION This document is suitable only for the purpose noted above. Use of this document for any other purpose is not permitted.	Coordinate System F594 Datum AHD Colour Disclaimer This drawing has been documented in colour. This drawing is required to be printed in colour. Failure to do so may result in loss of information. Black and white printing may be used if specific black and white documents have been obtained from Stantec.	Copyright Reserved The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorised by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.	Client/Project Logo	Client/Project KINDIRA - MONARCH GLEN MIRVAC MONARCH GLEN - ROL05 KINDIRA - WYATT ROAD, MONARCH GLEN <table border="1"> <tr> <td>Authorised</td> <td>GLD</td> <td>YYYY.MM.DD</td> <td>HS</td> <td>HS</td> <td>MH</td> <td>2026.04.09</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Dwn.</td> <td>Dsgn.</td> <td>Chkd.</td> <td>Appd.</td> </tr> </table>	Authorised	GLD	YYYY.MM.DD	HS	HS	MH	2026.04.09				Dwn.	Dsgn.	Chkd.	Appd.	Title NEIGHBOURHOOD CONNECTOR BATTER INTERFACE LAYOUT PLAN Project No. 304702212 Drawing No. 304702212-SK-CI-0045 Scale at A1 AS SHOWN Revision 1
Authorised	GLD	YYYY.MM.DD	HS	HS	MH	2026.04.09															
			Dwn.	Dsgn.	Chkd.	Appd.															



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------------	-----	------------	------------	-------------	-------------	-------	--------------------------

Revision
1

Appendix C: Sandy Creek Bridge RO56 Plans





KINDIRA - MONARCH GLEN LOT 2 ON SP351245 SANDY CREEK BRIDGE CROSSING

KINDIRA - WYATT ROAD, MONARCH GLEN

Project Number: 304702212

Drawing Number: 01-BR-501000

Revision: 1

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES



Stantec Australia

Level 6, Springfield Tower
145 Sinnathamby Boulevard
Springfield Central QLD 4300

T: (07) 3381 0111

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We care about the communities we serve—because they're our communities too. This allows us to assess what's needed and connect our expertise, to appreciate nuances and envision what's never been considered, to bring together diverse perspectives so we can collaborate toward a shared success.

We're designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe.

Stantec trades on the TSX and the NYSE under the symbol STN. Visit us at **stantec.com** or find us on social media.

Design with community in mind