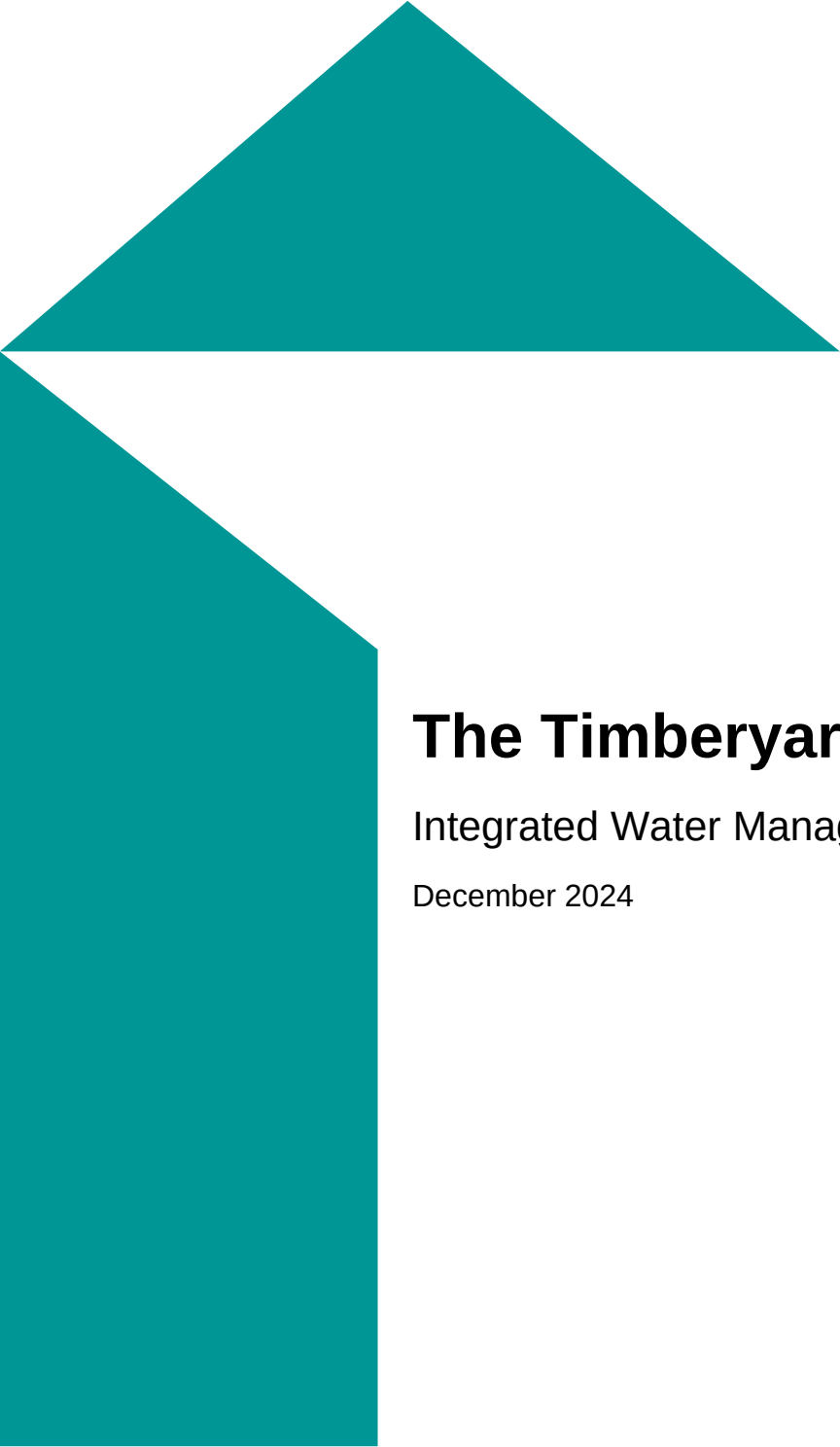


A large teal graphic on the left side of the page, consisting of a triangle at the top and a tall rectangle below it, with a diagonal cutout in the upper left corner of the rectangle.

# **The Timberyards by RTL Co.**

Integrated Water Management Plan

December 2024

The background is a solid teal color. It is decorated with several white dotted circular patterns, some of which are connected by dotted lines, resembling traditional Indigenous Australian art. These patterns are located in the top left, bottom left, bottom right, and on the right side of the page.

# Acknowledgment of Country

On behalf of Mott MacDonald, we would like to begin by acknowledging the Traditional Custodians of the land on which we meet today, and pay our respects to their Elders past and present.

We recognise and respect their cultural heritage, beliefs, continued connection to the land and water and commit to building a brighter future together.

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# **The Timberyards by RTL Co.**

## **Integrated Water Management Plan**

**December 2024**

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# Contents

|                                                  |           |
|--------------------------------------------------|-----------|
| Executive summary                                | 1         |
| Project Description                              | 1         |
| <b>1 Introduction</b>                            | <b>3</b>  |
| 1.1 Purpose of Report                            | 3         |
| 1.2 Scope of Work                                | 3         |
| 1.3 Limitations of this Report                   | 3         |
| <b>2 Design Guidelines and Methodologies</b>     | <b>4</b>  |
| 2.1 Consultation                                 | 4         |
| 2.2 Codes and Guidelines                         | 4         |
| 2.3 Other Consultant Inputs                      | 4         |
| 2.4 Methodologies                                | 4         |
| 2.5 Stormwater Management Design Criteria        | 5         |
| 2.5.1 Design Storm Events                        | 5         |
| 2.5.2 Design Requirements                        | 5         |
| <b>3 Existing Site and Stormwater Conditions</b> | <b>7</b>  |
| 3.1 Background                                   | 7         |
| 3.2 The Site                                     | 7         |
| 3.3 Existing Stormwater Drainage Characteristics | 8         |
| 3.4 Existing Flooding                            | 9         |
| <b>4 Proposed Development</b>                    | <b>10</b> |
| <b>5 Stormwater Management</b>                   | <b>11</b> |
| 5.1 Water Quantity Management                    | 11        |
| 5.1.1 Legal Discharge Point                      | 11        |
| 5.1.2 Tailwater Assumption                       | 11        |
| 5.1.3 Water Quantity Catchment                   | 11        |
| 5.1.4 On-site Detention System                   | 12        |
| 5.1.5 Bypass Catchment Discussion                | 13        |
| 5.2 Water Quality Management                     | 13        |
| 5.2.1 MUSIC Modelling Pluviograph Data Input     | 14        |
| 5.2.2 Water Quality Catchment                    | 14        |
| 5.2.3 Water Quality Treatment Train              | 16        |
| 5.2.4 Rainwater Re-use                           | 17        |
| 5.2.5 MUSIC Modelling Results                    | 17        |

|          |                                                                                               |           |
|----------|-----------------------------------------------------------------------------------------------|-----------|
| 5.3      | Water and Wastewater (This section is extracted from Infrastructure Report by ADP Consulting) | 17        |
| 5.3.1    | Precincts 1, 2 and 3 Water and Sewer Max Demand Calculations                                  | 17        |
| 5.3.2    | Sewer                                                                                         | 19        |
| 5.3.3    | Water                                                                                         | 20        |
| <b>6</b> | <b>Maintenance and Access and Safety</b>                                                      | <b>23</b> |
| 6.1      | Maintenance Requirements                                                                      | 23        |
| 6.2      | Access and Safety                                                                             | 23        |
| <b>7</b> | <b>Erosion and Sediment Control</b>                                                           | <b>24</b> |
| 7.1      | Construction Phase Pollutants of Concern                                                      | 24        |
| 7.2      | Construction phase performance criteria                                                       | 24        |
| <b>8</b> | <b>Conclusion</b>                                                                             | <b>26</b> |
| <b>9</b> | <b>Appendix A: Civil Drawings</b>                                                             | <b>27</b> |

## Tables

|                                                                             |    |
|-----------------------------------------------------------------------------|----|
| Table 1-1: Project Specific SEARs                                           | 2  |
| Table 2-1: Design Criteria and Guidelines                                   | 4  |
| Table 2-2: Hydraulic and Hydrology Design Criteria                          | 6  |
| Table 3-1: Existing Lot Numbering Summary                                   | 7  |
| Table 5-1: Tail Water Condition Summary                                     | 11 |
| Table 5-2: Farr St PSD & Bypass Flows                                       | 13 |
| Table 5-3: Sydenham Rd PSD & Bypass Flows                                   | 13 |
| Table 5-4: Marrickville Timber Yard Pluviography Data                       | 14 |
| Table 5-5: Soil/groundwater parameters for adoption in MUSIC modelling      | 15 |
| Table 5-6: Stormwater Quality Parameters for MUSIC modelling                | 15 |
| Table 5-7: Water Quality Treatment Measures Summary                         | 16 |
| Table 5-8: MUSIC Modelling Assessment Results                               | 17 |
| Table 5-9 Estimated Average Demand Table (as per Sydney Water Guidelines)   | 18 |
| Table 5-10: Estimated PSD (Probable Simultaneous Demand) Peak Flow Rate L/s | 18 |
| Table 7-1: Construction Phase Pollutant Loads                               | 24 |
| Table 7-2: Construction Phase Performance Criteria                          | 24 |

## Figures

|                                                            |   |
|------------------------------------------------------------|---|
| Figure 3-1: Aerial Site Map (Source: Nearmap, Ethos Urban) | 8 |
| Figure 3-2: Existing Catchment Plan                        | 9 |

|                                                                               |    |
|-------------------------------------------------------------------------------|----|
| Figure 4-1: Lower & Upper Ground Floor Landscape Masterplan (Source: Arcadia) | 10 |
| Figure 5-1: Proposed Stormwater Quantity Catchment                            | 12 |
| Figure 5-2: Proposed Stormwater Quality Catchment                             | 14 |
| Figure 5-3: MUSIC Modelling Assessment                                        | 16 |
| Figure 5-4: Sewer Main Option 1                                               | 20 |
| Figure 5-5 Development Precinct Plan                                          | 21 |
| Figure 5-6: Proposed Water Main Connections                                   | 22 |

# Executive summary

## Project Description

This Integrated Water Management Plan has been prepared on behalf of Varsity Assets Management Pty Ltd (Developer) on behalf of RTL Investments 2 Pty Ltd as trustee for RTL Marrickville Property Trust ('RTL Co.') (the Applicant) to support a State Significant Development Application (SSDA) for the proposed Timberyards development. The SSDA (SSD-76927247) seeks consent for a diverse rental housing precinct comprising build-to-rent (BTR), co-living and affordable housing. The precinct development comprises seven buildings ranging from eight to thirteen storeys, with open space that includes a pocket park, through site links and communal open spaces. Specifically, consent is sought for the following:

- Site preparation (including remediation), demolition and bulk excavation for basement parking;
- Residential accommodation (shop top housing, residential flat buildings and mixed use buildings) that includes BTR, co-living and affordable housing;
- Retail premises on the ground floor within the MU1 zoned land and extending up to 25m into the R4 zoned land;
- Publicly accessible recreation area (pocket park) and through site links;
- Neighbourhood shop (within the R4 zoned land);
- Associated landscaping and public domain works; and
- Augmentation of, and connection to, existing utilities as required.

A detailed description of the proposal is provided in the Environmental Impact assessment (EIS) by Ethos Urban. The development is declared State Significant by virtue of being a BTR development on land in Greater Sydney with an Estimated Development Cost (EDC) of greater than \$50 million, with the tenanted component representing greater than 60% of the EDC (Schedule 1, State Environmental Planning Policy (Planning Systems) 2021).

## Project vision

RTL Co. aim to deliver Sydney's premier neo-industrial residential neighbourhood - a global benchmark for imaginative urbanism. The Timberyards aims to seamlessly integrate diverse residential offerings into the distinctive character of Marrickville, fostering a sense of pride among residents and the local community. The project will deliver a wide range of rental living solutions, complemented by recreation spaces and local retail, all underpinned by Connection to Country and environmentally sustainable design principles.

## Purpose

This Integrated Water Management Plan has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs) issued by the Department of Planning, Housing and Infrastructure (DPHI) for the subject SSDA, with specific SEAR(s) identified in Table 1-1 below:

**Table 1-1: Project Specific SEARs**

| SEARs Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Section of Report where response is provided                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. Water Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>Provide an Integrated Water Management Plan for the development that: <ul style="list-style-type: none"> <li>is prepared in consultation with the local council and any other relevant drainage or water authority.</li> <li>outlines the water-related servicing infrastructure required by the development (informed by the anticipated annual and ultimate increase in servicing demand) and evaluates opportunities to reduce water demand (such as recycled water provision).</li> <li>details the proposed drainage design (stormwater and wastewater) for the site including any on-site treatment, reuse and detention facilities, water quality management measures and nominated discharge points.</li> <li>demonstrates compliance with the local council or other drainage or water authority requirements and avoids adverse downstream impacts.</li> </ul> </li> <li>Where water and drainage infrastructure works are required that would be handed over to the local council, or other drainage or water authority, provide full hydraulic details and detailed plans and specification of proposed works that have been prepared in consultation with, and comply with the relevant standards of, the local council or other drainage or water authority.</li> </ul> | <ul style="list-style-type: none"> <li>Section 2 Design Guidelines and Methodology</li> <li>Section 5.2.4 Rainwater Re-use</li> <li>Section 5.3 Water and Wastewater</li> <li>Section 5.1 Water Quantity Management and Section 5.2 Water Quality Management</li> <li>Section 5.1.1 Legal Discharge Point,</li> <li>Section 5.1.2 Tailwater Assumption,</li> <li>Section 5.1.4 On-site Detention System,</li> <li>Section 5.2.3 Water Quality Treatment Train and</li> <li>Section 5.2.5 MUSIC Modelling Results</li> </ul> |

This Integrated Water Management Plan supports the delivery of the proposed development as it identifies opportunities, constraints and risks related to civil design. The scope of this report summarises the existing and proposed stormwater drainage design as well as the design approach, key assumptions, relevant references and standards that will be applied to the development of concept design documentation for the proposed development. The report is to be read in conjunction with the civil engineering plans in Appendix A.

# 1 Introduction

## 1.1 Purpose of Report

The purpose of this Integrated Water Management Plan is to outline the proposed site stormwater management strategy for the development and demonstrate compliance with the stormwater management quantity and quality requirements in accordance with the SEARs issued for the project including, but not limited to, the Marrickville Development Control Plan 2011 2.25 Stormwater Management, Marrickville Council Stormwater & On-site Detention Code 2011, and relevant Australian and industrial standards.

## 1.2 Scope of Work

This management plan details the stormwater assessment undertaken, including modelling results, and presents the proposed strategy for both stormwater quantity and quality management for the development.

The assessment includes the following components:

- Understanding the existing stormwater conditions for the site including flood risk, overland flow paths, permeability, existing infrastructure and current points of discharge.
- Assessing the post-development flows for the proposed development by DRAINS to determine any increase in runoff and implement mitigation measures as required under the design criteria.
- Assessing the use of various stormwater quality treatment measures, including Water Sensitive Urban Design (WSUD) initiatives, to meet the stormwater quality objectives under the design criteria.
- Designing a stormwater system to convey the minor flows from the development to nominated points of discharge from the site and incorporating quantity and quality measures from the above.
- Considering major flows and overland flow paths through the developed site for safety and conveyance of flows and implementing above-ground drainage measures as required.
- Implementing erosion and sediment control measures to minimise sediment runoff during the construction phase.

## 1.3 Limitations of this Report

The proposed water management plan to be read in conjunction with relevant consultants including but not limited to, Architectural Plans, Landscape Plans, Geotechnical Report, Flood Report, Traffic Engineering Report and relevant approval documents.

This assessment and management plan has been undertaken as a desktop study only. Considerable effort has been undertaken to obtain available site data and project information and conducted preliminary consultation with Inner West Council to understand the site conditions and constraints.

## 2 Design Guidelines and Methodologies

### 2.1 Consultation

Mott MacDonald is in consultation with the project team throughout the design phase to obtain a feasible design solution for the proposed development site. Iterations of the design were prepared in conjunction with the flood engineers input to flood levels, landscape architects, architects and hydraulic engineers. The proposed stormwater drainage design was conducted in accordance with Marrickville Council Development Control Plan 2011 (DCP) and other relevant guidelines.

### 2.2 Codes and Guidelines

The design has been undertaken in compliance with the relevant Australian Standards, local government guidelines. Key documents used as guidance for the design are summarised in Table .

**Table 2-1: Design Criteria and Guidelines**

| Reference        | Title                                                                                                      | Version or Date | Originator                      |
|------------------|------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------|
| DRAINS           | DRAINS User Manual                                                                                         |                 | DRAINS                          |
| eWater           | MUSIC User Manual                                                                                          | V5              | eWater                          |
| Blue Book        | Managing Urban Stormwater – Soils and Construction, Volume 1, 4 <sup>th</sup> edition, March 2004, Landcom | March 2004      | Landcom                         |
| NCC              | National Code Australia                                                                                    | 2022            | Australian Building Codes Board |
| AS/NZS 3500.3    | Plumbing and Drainage – Stormwater Drainage                                                                | 2021            | Standards Australia             |
| Marrickville DCP | Part 2.25 Stormwater Management                                                                            | 2011            | Inner West Council              |
| Marrickville DCP | Part 2.17 Water Sensitive Urban Design                                                                     | 2011            | Inner West Council              |

### 2.3 Other Consultant Inputs

The proposed stormwater design is also based on the following source of information received:

- Architectural design provided by Turner, project no.: 23068, issue 01, dated 12/12/2024.
- Landscape design provided by Arcadia, project no.: 24-1042, dated 13/12/2024.
- Survey undertaken by LTS Surveyors, Reference no: 52202-002DT, dated 29/07/2024.
- Geotechnical Report by JK Geotechnics, Reference no: 36478YCrpt2, dated 04/07/2024.
- Infrastructure Report by ADP Consulting Engineers, Reference no: SYD3146, Rev. P4, dated 12/12/2024.

### 2.4 Methodologies

- DRAINS
  - DRAINS software package has been utilised to size the proposed below ground pit and pipe network to convey the major/minor storm events flows.
  - This software has also been used to undertake iterations to determine suitably sized stormwater detention tanks under the stormwater management quantity requirements.

- The DRAINS model has been undertaken the online rainfall data from ARR Data Hub.
- MUSIC
  - Modelling of the proposed development was undertaken using the Model for Urban Stormwater Improvement Conceptualisation (MUSIC) Version 6.3 software. The software was utilised to simulate urban stormwater systems operating at a range of temporal and spatial scales. MUSIC models the total amounts of gross pollutants, phosphorus, nitrogen, and total suspended solids produced within various types of catchments. It allows the user to simulate the removal rates expected when implementing water quality treatment devices to reduce the increase gross pollutant and nutrient levels created by the proposed development.
  - The water quality modelling has been undertaken in accordance with the current NSW Music Modelling Guidelines 2015.
- BYDA
  - Before You Dig Australia, due diligence investigations have been carried out with a combined services coordination and verification. The information is a supplementary to existing survey to assist civil/stormwater design and other consultants at approval submission stage.

## 2.5 Stormwater Management Design Criteria

### 2.5.1 Design Storm Events

The design storm events vary from design purposes and have been summarised below, detailed design regulations to be discussed in the following chapters:

- Water Sensitive Urban Design (WSUD) is designed for 1 in 3-month storm events.
- Permissible Site Discharge (PSD) is designed for 20% AEP storm events.
- On-site Detention (OSD) volume is designed for 1% AEP storm events.

### 2.5.2 Design Requirements

The listed Inner West Council guidelines in Table 2-2 above provide the synopsis of the design requirements for the subject site. Design criteria have been developed to ensure the proposed design adheres to the requirements denoted in the Marrickville DCP guidelines. Table 2-2 below summaries the design criteria for hydrology and hydraulic analysis.



**Table 2-2: Hydraulic and Hydrology Design Criteria**

| Item                              | Standard                                                                   | Adopted                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hydrology &amp; Hydraulics</b> |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                       |
| Hydrological Model                | Marrickville Development Control Plan 2011                                 | DRAINS (ILSAX)                                                                                                                                                                                                                                                                                                                                                                        |
| Design Rainfall Data              | Marrickville Development Control Plan 2011                                 | AR&R Online Data                                                                                                                                                                                                                                                                                                                                                                      |
| Urban Rainfall Losses             | AR&R 2016 Table 9.6.6 Rainfall Loss Parameters (or AR&R 1987)              | Paved (impervious) area depressions storage (mmm)=1<br>Supplementary area depression storage (mm) = 1<br>Grassed (previous) area depression storage (mm) = 5                                                                                                                                                                                                                          |
| Soil Type                         | AR&R 2016 Table 9.6.6 Rainfall Loss Parameters (or AR&R 1987)              | AMC = 3                                                                                                                                                                                                                                                                                                                                                                               |
| Major Design Storm                | Marrickville DCP 2011, Section 2.25, Part 2.25.3.9 C24                     | 100YR Average Recurrence Interval (1% AEP)                                                                                                                                                                                                                                                                                                                                            |
| Minor Design Storm                | Marrickville DCP 2011, Section 2.25, Part 2.25.3.9 C24                     | 2YR Average Recurrence Interval (1% AEP)                                                                                                                                                                                                                                                                                                                                              |
| Pit Losses                        | QUDM                                                                       | QUDM                                                                                                                                                                                                                                                                                                                                                                                  |
| Tailwater level/sea water level   | Marrickville Council Stormwater & On-Site Detention Code 2011, Section 5.2 | Where downstream water levels vary depending upon tide or channel flows, 100-year ARI levels of the external system being connected to are to be used unless joint probability calculations are performed.                                                                                                                                                                            |
| Freeboard/Habitable Floor Levels  | Marrickville DCP 2011, Section 2.25, Part 2.25.3.14 C34 & C35              | For buildings near OSD storages, freeboard for habitable floor levels: Min. 0.2m<br><br>For buildings against channel, mainstream, or in areas with significant overland flow, freeboard for floor level: 0.3 – 0.5m<br><br>All other circumstances: Min. 0.3m (above surrounding ground level)                                                                                       |
| Permissible Site Discharge        | Marrickville Council Stormwater & On-Site Detention Code 2011, Section 4.9 | The Maximum discharge allowable for connection to Council's street gutter is 25 l/s if a Council pipeline is not nearby.<br><br>If the discharge is greater than 25 l/s then connection directly to Council pipe or Channel system will be required.                                                                                                                                  |
| On-Site Stormwater Detention      | Marrickville DCP 2011, Section 2.25, Part 2.25.3.3                         | Council's OSD and OSR requirements have been formulated to ensure there is a reduction in discharges adjacent to the site or elsewhere in the catchment for virtually all rainfall events through to 100 years ARI. For developments greater than 1000m <sup>2</sup> in site area, allowable discharges will be limited to the equivalent fully pervious discharges for the site area |
| Pollution reduction targets       | Inner West Council, Marrickville DCP 2011, Part 2.17, Section 2.17.4       | Litters 100%<br>Total Suspended Solids (TSS) 85%<br>Total Phosphorus (TP) 60%<br>Total Nitrogen (TN) 45%                                                                                                                                                                                                                                                                              |

## 3 Existing Site and Stormwater Conditions

### 3.1 Background

RTL Co. aim to deliver Sydney's premier neo-industrial residential neighbourhood - a global benchmark for imaginative urbanism. The Timbriyards aims to seamlessly integrate diverse residential offerings into the distinctive character of Marrickville, fostering a sense of pride among residents and the local community. The project will deliver a wide range of rental living solutions, complemented by recreation spaces and local retail, all underpinned by Connection to Country and environmentally sustainable design principles.

### 3.2 The Site

The site is known as the 'Timbriyards', located in Marrickville within the Inner West Local Government Area (LGA). The site comprises 39 lots with legal identification listed in the table below, and has a total area of 22,770m<sup>2</sup> or, for the purpose of calculation of floor space, an area of 22,564m<sup>2</sup> (excluding the SP2-zoned Victoria Road widening land, which is within the site boundary). The site is located within Precinct 47: Victoria Road in the Marrickville Development Control Plan 2011 (MDCP 2011). The site is primarily contained in the Timber Yards sub-precinct of Precinct 47, with the lots fronting Victoria Road falling within the Victoria Road Corridor sub-precinct.

The site is approximately 700m walking distance to the newly opened Sydenham Metro Station, with 7-minute travel time to the Sydney CBD.

The site currently comprises primarily industrial and light industrial uses, with residential dwellings to a minor portion of the site on Farr Street (western boundary) and Victoria Road (eastern boundary). The site also has frontage to Sydenham Road to the south and Mitchell Street to the north (and encompassing a small lane off Mitchell Street). An aerial map is provided at Figure 3-1 below.

**Table 3-1: Existing Lot Numbering Summary**

| Lot/DP     | Property Address | Lot/DP   | Property Address | Lot/DP    | Property Address |
|------------|------------------|----------|------------------|-----------|------------------|
| 1/724487   | 119A Sydenham Rd | 1/572829 | 35 Farr St       | 3/252507  | 19 Farr St       |
| 1/972534   | 121 Sydenham Rd  | 12/4590  | 14 Mitchell St   | 4/252507  | 21 Farr St       |
| B/439802   | 129 Sydenham Rd  | 13/4590  | 10 Mitchell St   | 5/252507  | 23 Farr St       |
| A/439802   | 131 Sydenham Rd  | 14/4590  | 8 Mitchell St    | 6/252507  | 25 Farr St       |
| D/377270   | 133 Sydenham Rd  | 15/4590  | 183 Victoria Rd  | 7/252507  | 27 Farr St       |
| 1/700223   | 135 Sydenham Rd  | 16/4590  | 4 Mitchell St    | 8/252507  | 29 Farr St       |
| B/343286   | 7 Farr St        | 17/4590  | 2 Mitchell St    | 9/252507  | 31 Farr St       |
| A/304426   | 9 Farr St        | 3/4590   | 165 Victoria Rd  | 1/583801  | 33 Farr St       |
| A/304426   | 11 Farr St       | 2/4590   | 167 Victoria Rd  | C/301985  | 175 Victoria Rd  |
| 1/78883    | 13 Farr St       | 1/4590   | 169 Victoria Rd  | D/301985  | 183 Victoria Rd  |
| 1/252507   | 15 Farr St       | A/301985 | 171 Victoria Rd  | E/301985  | 175 Victoria Rd  |
| 2/252507   | 17 Farr St       | B/301985 | 173 Victoria Rd  | A/166330  | 183 Victoria Rd  |
| 345/587262 | 191 Victoria Rd  | 1/315293 | 183 Victoria Rd  | 20/667441 | 183 Victoria Rd  |



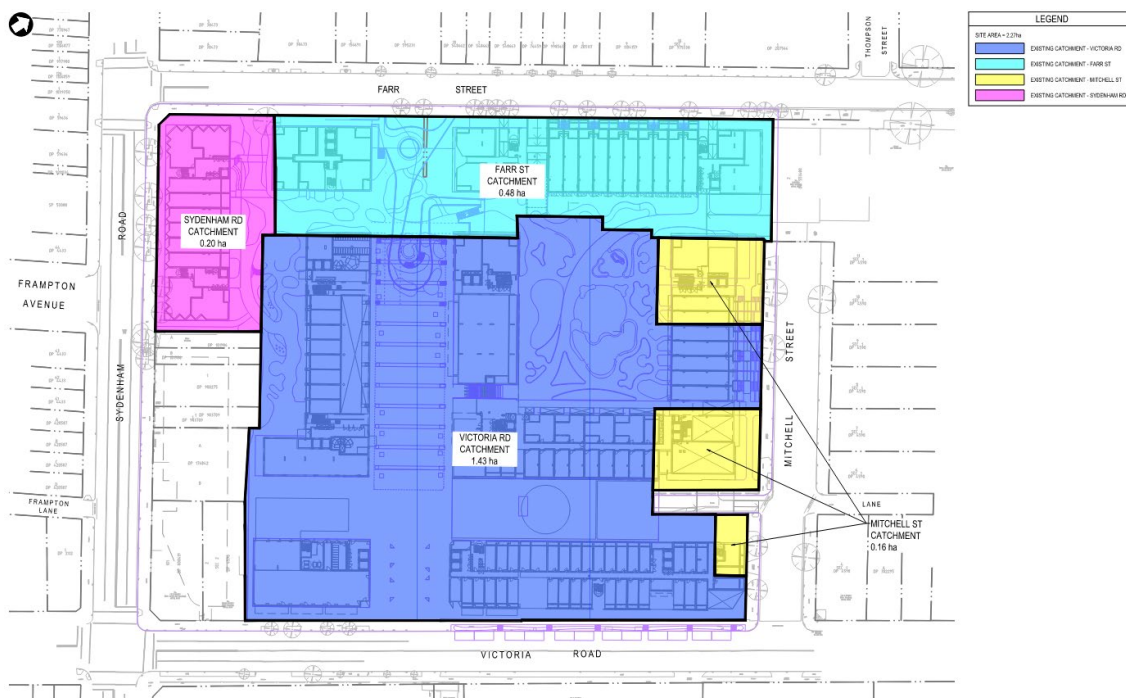
**Figure 3-1: Aerial Site Map** (Source: Nearmap, Ethos Urban)

### 3.3 Existing Stormwater Drainage Characteristics

In its existing state, the site primarily grades down towards the south and is composed of mostly impervious surfaces, as the site is occupied by industrial buildings.

Within the site, a series of existing pipes and drains have been identified via survey. Through desktop analysis, Council kerb inlet pits have been identified along Victoria Rd, Sydenham Rd, and Farr St. As such, it is assumed that most of the stormwater on site is captured by the existing onsite drainage network and discharges to Council's drainage network. Additionally, the remaining stormwater discharges from the site as overland sheet flow and enters Council's drainage network.

An existing catchment plan has been developed for the site, as shown in Figure 3-2 below. These catchments have been delineated based on the existing site topography, building locations, and available street discharge points.



**Figure 3-2: Existing Catchment Plan**

### 3.4 Existing Flooding

In the existing scenario, the development site is unaffected by flooding during the 1% AEP storm event. However, during this storm, the roads surrounding the site are affected in the following manner:

- **Sydenham Rd:** Sydenham Road is the most flood affected road that interfaces the Timberyards as it conveys flows from the north of the catchment towards the Sydenham Detention Basin. Flood depths along the interface at Farr Street are generally between 0.25 m and 0.35 m. Greater flooding depths are predicted at the Victoria Road intersection, however, this area does not interface the Timberyards precinct.
- **Victoria Rd:** This road is flood affected, with water depths ranging from 0.30m at the intersection with Mitchell St to 0.45m at the intersection with Sydenham Rd.
- **Farr St:** Flood depths along Farr Street are relatively shallow as the road falls towards Sydenham Road. The greatest depths are predicted in the gutters, with water reaching up to 0.22 m.
- **Mitchell St:** This street is predicted to be free from inundation during the 1% AEP event.

Refer to Flood Impact & Risk Assessment report by Mott Macdonald for further details.



## 4 Proposed Development

The Development Site is recognised as The Timberyards by RTL Co., which has an area of has a total area of 22,770m<sup>2</sup> or, for the purpose of calculation of floor space, an area of 22,564m<sup>2</sup> (excluding the SP2-zoned Victoria Road widening land, which is within the site boundary). The proposed development is comprised of the following:

- Seven (7) buildings consisting of a mix of residential spaces, including build-to-rent, co-living, and affordable housing;
- A ground floor public domain consisting of retail and food and beverage, communal, and green spaces;
- One (1) basement level; and
- A total GFA of 76,634m<sup>2</sup>.

The lower and upper ground floor landscape plan is shown in the Figure 4-1 below:

**Figure 4-1: Lower & Upper Ground Floor Landscape Masterplan (Source: Arcadia)**



# 5 Stormwater Management

## 5.1 Water Quantity Management

The purpose of the stormwater quantity management is to limit the stormwater runoff from the site and ensure there is no surcharge to existing street drainage. In Marrickville DCP 2011 C24, requires on-site detention to limit post development flow to existing conditions. The permissible site discharge shall be examined from 50% AEP to 1% AEP for all storms. However, due to the site constraints and the existing conditions, flow limitation for minor storms from 50% AEP is not feasible and it is assumed minor storms shall be 20% AEP as normal practice.

The existing stormwater infrastructure within the site including grated trench drain, pit and pipe system will be made redundant and demolished.

The stormwater runoff from the proposed surface areas will be collected and conveyed by the proposed stormwater system.

This section will further discuss on the stormwater drainage design approach to be undertaken for the site to ensure adherence with the Marrickville DCP 2011.

### 5.1.1 Legal Discharge Point

There is an existing Council kerb inlet pit located in Victoria Rd, near the intersection of Victoria Rd and Sydenham Rd. This will be the proposed point of discharge for the entire site.

### 5.1.2 Tailwater Assumption

The downstream tailwater level is typically utilised to assess and account for any potential backwater effects in the proposed outlet.

The Table 5-1 below summarises the preliminary tail water conditions adopted in the DRAINS model for various rainfall events:

**Table 5-1: Tail Water Condition Summary**

| Storm Event (AEP) | Tail Water Condition (A.H.D)                                |
|-------------------|-------------------------------------------------------------|
| 1%                | 3.03 (Obtained from flood model)                            |
| 2%                | 2.36 (Surface level of existing Council pit for connection) |
| 5%                | 1.705 (Obvert of Council Pipe)                              |

### 5.1.3 Water Quantity Catchment

The DRAINS model was established to simulate both the post-development and existing greenfield scenarios. The site was segmented into sub-catchments according to its layout and topography. Figure 5-1 illustrates the proposed DRAINS catchment breakdown. For detailed information on water quantity catchment delineation, please refer to the civil drawings set prepared by Mott MacDonald, available in Appendix A of this report.



Based on the Stormwater Drainage Design requirements by Council, Mott MacDonald has investigated the existing site conditions with proposed architectural plans to seek the best outcome of stormwater runoff and restrictions from the site with minimal impact to the neighbouring properties. With the consideration of legal discharge point, tailwater assumption and proposed catchment, Mott MacDonald has undertaken a DRAINS assessment to investigate the water level within the tank and volume required under 1% AEP storm events.

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## 5.1.5 Bypass Catchment Discussion

### 5.1.5.1 Farr St Catchment

There is no OSD for the Farr St catchment. Most of the stormwater flows from this catchment are captured by the proposed stormwater network, which discharges to Victoria Rd. A portion of this catchment bypasses the proposed network. The post-development bypass flow is less than the pre-development flow, for storms from the 20% to 1% AEP storm event.

**Table 5-2: Farr St PSD & Bypass Flows**

| AEP | PSD: Pre-Development Flow (m <sup>3</sup> /s) | Bypass Flow (m <sup>3</sup> /s) |
|-----|-----------------------------------------------|---------------------------------|
| 20% | 0.146                                         | 0.014                           |
| 5%  | 0.199                                         | 0.019                           |
| 2%  | 0.231                                         | 0.022                           |
| 1%  | 0.263                                         | 0.025                           |

### 5.1.5.2 Mitchell St Catchment

There is no OSD for the Mitchell St catchment. All stormwater flows from this catchment are captured by the proposed stormwater network, which discharges to Victoria Rd. Therefore, the post-development flow for this catchment is zero (0).

### 5.1.5.3 Sydenham Rd Catchment

There is no OSD for the Sydenham Rd catchment. Most of the stormwater flows from this catchment are captured by the proposed stormwater network, which discharges to Victoria Rd. A portion of this catchment bypasses the proposed network. The post-development bypass flow is less than the pre-development flow, for storms from the 20% to 1% AEP storm event.

**Table 5-3: Sydenham Rd PSD & Bypass Flows**

| AEP | PSD: Pre-Development Flow (m <sup>3</sup> /s) | Bypass Flow (m <sup>3</sup> /s) |
|-----|-----------------------------------------------|---------------------------------|
| 20% | 0.110                                         | 0.011                           |
| 5%  | 0.151                                         | 0.014                           |
| 2%  | 0.175                                         | 0.017                           |
| 1%  | 0.199                                         | 0.019                           |

## 5.2 Water Quality Management

To ensure that the development improves the quality of stormwater leaving the development site, Mott MacDonald has reviewed the site and formulated a Water Sensitive Urban Design concept model, treatment train effectiveness and summarised the results in this section of the report. MUSIC software was utilised to simulate urban stormwater systems operating at a range of temporal and spatial scales. MUSIC models the total amounts of gross pollutants, phosphorus, nitrogen and total suspended solids produced within various types of catchments. It allows the user to simulate the removal rates expected when implementing water quality treatment devices to reduce the increased gross pollutant and nutrient levels created by the proposed development.



5.2.1 MUSIC Modelling Pluviograph Data Input

The water quality analysis requires historical rainfall data recorded by a pluviography station. As such, pluviograph data from rainfall station noted as Sydney Airport was utilised for the site. This station was considered appropriate as it is situated relatively close to the site and contains periods of both dry and wet weather. The pluviography is shown in Table 5-4.

Table 5-4: Marrickville Timber Yard Pluviography Data

| Station No. | Location       | Records   | Data Interval |
|-------------|----------------|-----------|---------------|
| 066037      | Sydney Airport | 1990-1999 | 6-minute      |

Source: Australian Government Bureau of Meteorology Online Data

5.2.2 Water Quality Catchment

The MUSIC model was configured to represent the post-development scenario. The site was divided into sub-catchments based on its layout and topography. Figure 5-2 depicts the proposed MUSIC catchment breakdown. For detailed information on water quality catchment delineation, please refer to the civil drawings set available in Appendix A of this report.

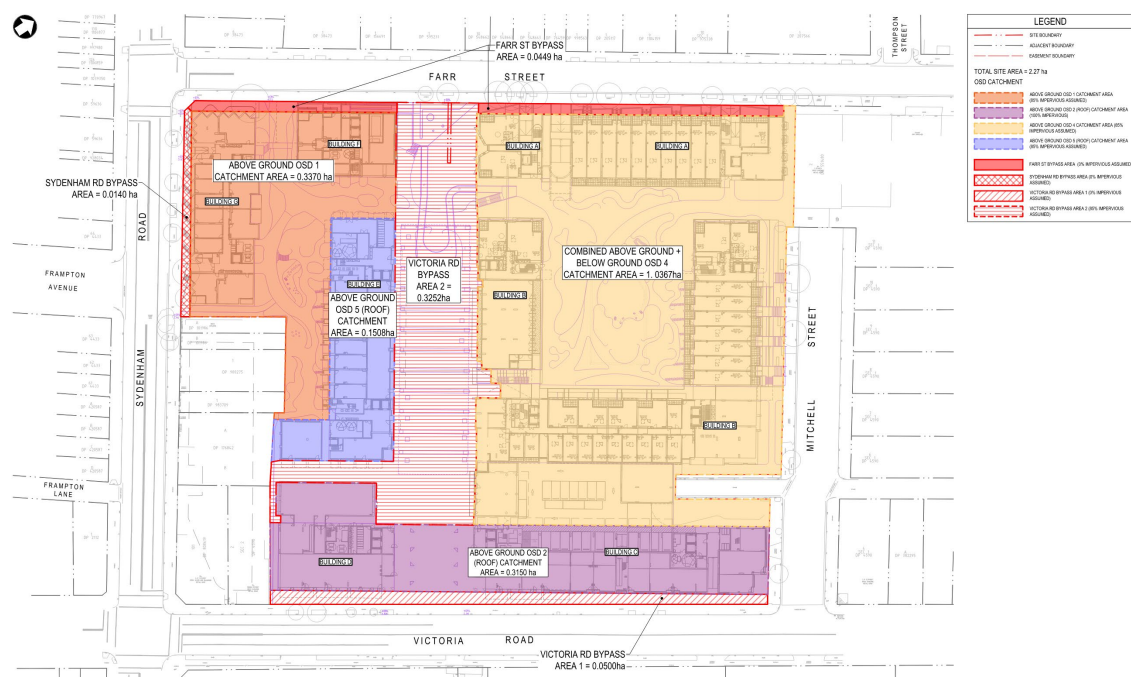


Figure 5-2: Proposed Stormwater Quality Catchment

The proposed catchments are separated into the following land use types:

- **Roof** – The roof area of all proposed buildings.
- **Landscape** – Both landscape and natural areas that are within the development.
- **Mixed Area** – All paved area outside roof and landscape area

MUSIC soil and groundwater parameters are set as per Table 5-5 and MUSIC node rainfall runoff parameters are set as per Table 5-6 respectively.

**Table 5-5: Soil/groundwater parameters for adoption in MUSIC modelling**

| Parameters                          | Units | Recommended Values                             |
|-------------------------------------|-------|------------------------------------------------|
| <b>Impervious Area Parameters</b>   |       |                                                |
| Rainfall Threshold                  | mm    | 1.5 (for roads/paths, etc.)<br>0.3 (for roofs) |
| <b>Pervious Area Parameters</b>     |       |                                                |
| Soil Capacity                       | mm    | 170                                            |
| Initial Storage                     | %     | 30                                             |
| Field Capacity                      | mm    | 70                                             |
| Infiltration Capacity Coefficient a |       | 180                                            |
| Infiltration Capacity Coefficient b |       | 3.0                                            |
| <b>Groundwater Properties</b>       |       |                                                |
| Initial Depth                       | mm    | 10                                             |
| Daily Recharge Rate                 | %     | 25                                             |
| Daily Baseflow Rate                 | %     | 25                                             |
| Deep Seepage                        | %     | 0                                              |

**Table 5-6: Stormwater Quality Parameters for MUSIC modelling**

| Land-use Category                       |             | Log10 TSS (mg/L) |           | Log10 TP (mg/L) |           | Log10 TN (mg/L) |           |
|-----------------------------------------|-------------|------------------|-----------|-----------------|-----------|-----------------|-----------|
|                                         |             | Storm Flow       | Base Flow | Storm Flow      | Base Flow | Storm Flow      | Base Flow |
| General Urban (incl. public open space) | Mean        | 2.15             | 1.20      | -0.60           | -0.85     | 0.30            | 0.11      |
|                                         | Residential |                  |           |                 |           |                 |           |
| <b>Industrial</b>                       | Std Dev     | 0.32             | 0.17      | 0.25            | 0.19      | 0.19            | 0.12      |
| <b>Commercial</b>                       |             |                  |           |                 |           |                 |           |
| <b>Road Areas</b>                       | Mean        | 2.43             | -*        | -0.3            | -*        | 0.34            | -*        |
|                                         | Std Dev     | 0.32             | -*        | 0.25            | -*        | 0.19            | -*        |
| <b>Roof Areas</b>                       | Mean        | 1.30             | -*        | -0.89           | -*        | 0.30            | -*        |
|                                         | Std Dev     | 0.32             | -*        | 0.25            | -*        | 0.19            | -*        |

(Note: SD = Standard Deviation, TSS = Total Suspended Solids, TP = Total Phosphorus and TN = Total Nitrogen)

5.2.3 Water Quality Treatment Train

All roof drainage flows into the proposed rainwater tanks. Additionally, all roof and podium drainage have been proposed to be reticulated to the StormFilters incorporated into the proposed stormwater network.

The following treatment train has been proposed for the site:

- 20kL rainwater tanks are to be provided for each post-development catchment for landscape irrigation purposes, as per architect's specifications; and
- Stormwater capture within the development area is directed into the civil stormwater network consisting of pit and pipe networks and is to be treated by OceanGuards and StormFilters from Ocean Protect or equivalent.

Figure 5-3 below is the proposed treatment train, as set out in the MUSIC model.

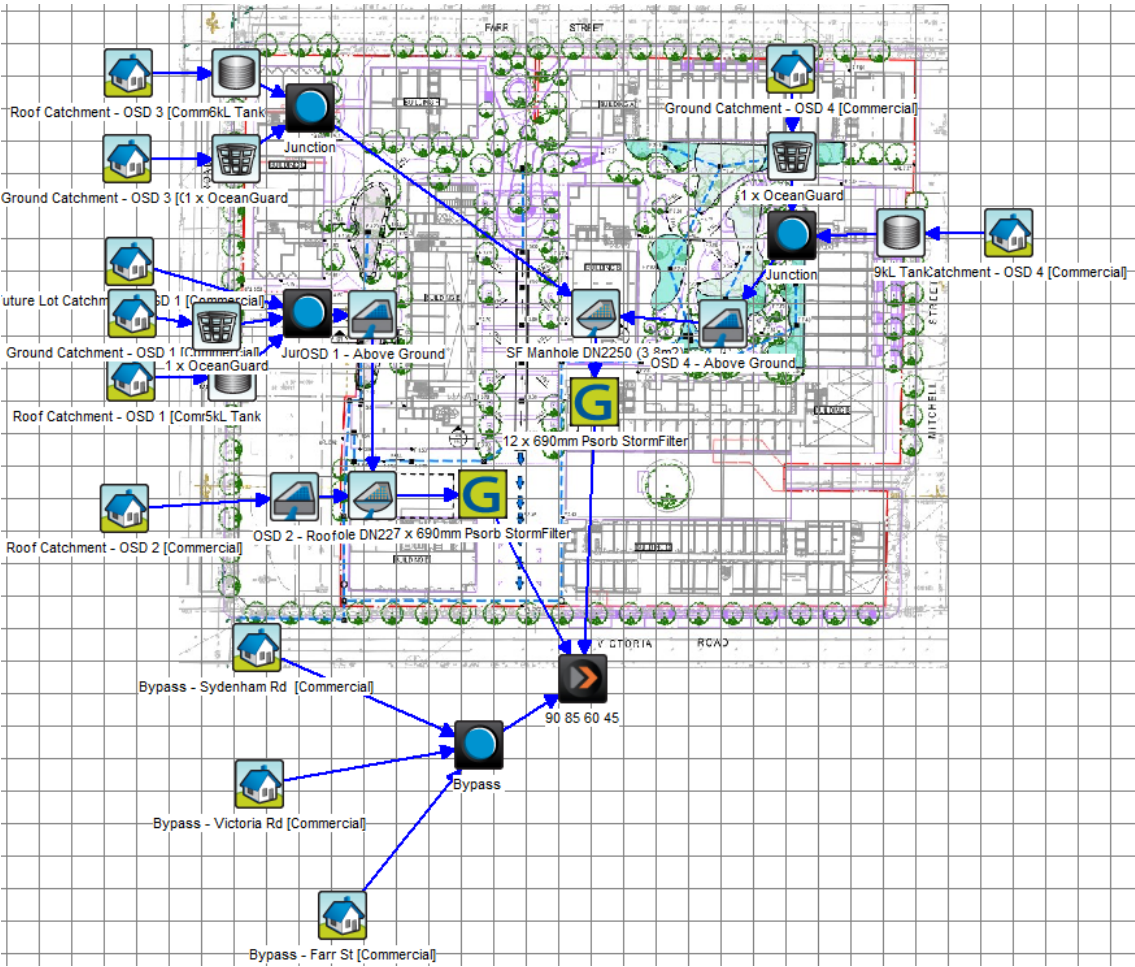


Figure 5-3: MUSIC Modelling Assessment

Table 5-7 below summarises the overall stormwater quality treatment for each building.

Table 5-7: Water Quality Treatment Measures Summary

| Catchment | Water Quality Treatment Measures             |
|-----------|----------------------------------------------|
| 1         | 1x 6kL Rainwater Tank + 1x Oceanguard Basket |

| Catchment       | Water Quality Treatment Measures                                                                                |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| 2               | 1x 6kL Rainwater Tank + 1x Oceanguard Basket                                                                    |
| 3               | N/A                                                                                                             |
| 4               | 1x 9kL Rainwater Tank + 1x Oceanguard Basket                                                                    |
| Final Treatment | 1x DN2250 Manhole with 7 x 690 Stormfilter Cartridges<br>1x DN2250 Manhole with 12 x 690 Stormfilter Cartridges |

#### 5.2.4 Rainwater Re-use

Rainwater tank has been introduced as part of the treatment train and to satisfy BASIX requirement as per sustainability engineer's specifications. The proposed 20kL rainwater tank is designed for irrigation purpose only with 0.4kL/m<sup>2</sup>/year as demanded rate in the MUSIC modelling.

Downpipes with first flush devices to be installed before roof stormwater entering into rainwater tank to avoid any debris blockage, overflow from rainwater tank shall be directly into StormFilter chamber for further treatment.

#### 5.2.5 MUSIC Modelling Results

Based on the results of this assessment, the proposed water quality treatment train will provide adequate improvements in Total Suspended Solids, Total Phosphorus, Total Nitrogen and Gross Pollutants for the proposed development. Similarly, Table 5-8 below indicate the minimum works required to meet the water quality targets. Further options could be explored during the detailed design phase of the project to further refine the stormwater network and treatment train and/or achieve higher standards where feasible.

**Table 5-8: MUSIC Modelling Assessment Results**

| Pollutants                   | Inner West Council, Marrickville DCP<br>2011, Part 2.17, Section 2.17.4 | Reduction % | Results |
|------------------------------|-------------------------------------------------------------------------|-------------|---------|
| Gross Pollutants (GP)        | 100%                                                                    | 100%        | Satisfy |
| Total Suspended Solids (TSS) | 85%                                                                     | 91.5%       | Satisfy |
| Total Phosphorus (TP)        | 60%                                                                     | 72.5%       | Satisfy |
| Total Nitrogen (TN)          | 45%                                                                     | 45.1%       | Satisfy |

### 5.3 Water and Wastewater (This section is extracted from Infrastructure Report by ADP Consulting)

#### 5.3.1 Precincts 1, 2 and 3 Water and Sewer Max Demand Calculations

The below calculations demonstrate the expected average, maximum and peak hydraulic demand of the site based on "Sydney Water Average Daily Water Use By Property Development Type" guidelines and information from Turner Studio Architects.

- The total site estimated average demand for potable water @ 212,992L/day and the average wastewater demand @ 181,043L/day.
- Precinct 1 Apartments and Retail has an estimated average demand for potable water @ 110,219L/day and the average wastewater demand @ 93,686L/day.
- Precinct 2 Apartments and Retail has an estimated average demand for potable water @ 37,718L/day and the average wastewater demand @ 32,060L/day.

- Precinct 3 Apartments and Retail has an estimated average demand for potable water @ 64,278L/day and the average wastewater demand @ 54,636L/day.
- The estimated probable simultaneous demand (PSD) potable water flowrate in L/s for the 3 precincts are as below:
  - Precinct 1: 25.62L/sec
  - Precinct 2: 20.3L/sec
  - Precinct 3: 16.8L/sec

**Table 5-9 Estimated Average Demand Table (as per Sydney Water Guidelines)**

| Building Reference             | Area (m <sup>2</sup> ) | Average Demand (L/m <sup>2</sup> /day) | Average Potable Water (L/day) | Average Waste Water Discharge (L/day) |
|--------------------------------|------------------------|----------------------------------------|-------------------------------|---------------------------------------|
| Residential GFA                |                        | 3.34                                   |                               |                                       |
| Total Apartments Area          | 71,316                 | Apartments Potable Water Avg Demand    | 238195.44                     |                                       |
|                                |                        | Apartments Wastewater Avg Discharge    |                               | 166736                                |
| RETAIL GFA                     |                        | 2.48                                   |                               |                                       |
| Total Retail Area              | 2,062                  | Retail Potable Water Avg Demand        | 5113.76                       |                                       |
|                                |                        | Retail Wastewater Avg Discharge        |                               | 4091                                  |
| Total Potable Water Avg Demand |                        |                                        | 243309.2                      |                                       |
| Total Wastewater Avg Discharge |                        |                                        |                               | 170,827.81                            |

**Table 5-10: Estimated PSD (Probable Simultaneous Demand) Peak Flow Rate L/s**

| Building Reference                   | No. of Units | TOTAL PSD (L/s) |
|--------------------------------------|--------------|-----------------|
| <b>PRECINCT 1</b>                    |              |                 |
| BUILDING A                           | 110          | 8.08            |
| BUILDING B                           | 401          | 21.15           |
| <b>PSD based on A and B units</b>    | <b>511</b>   | <b>25.62</b>    |
| <b>PRECINCT 2</b>                    |              |                 |
| BUILDING C                           | 170          | 11.04           |
| BUILDING D                           | 210          | 12.90           |
| <b>PSD based on C and D units</b>    | <b>380</b>   | <b>20.28</b>    |
| <b>PRECINCT 3</b>                    |              |                 |
| BUILDING E                           | 189          | 11.93           |
| BUILDING F                           | 42           | 4.21            |
| BUILDING G                           | 66           | 5.68            |
| <b>PSD based on E, F and G units</b> | <b>297</b>   | <b>16.76</b>    |
|                                      | <b>1188</b>  | <b>54.26L/s</b> |

### 5.3.2 Sewer

Sewer main diversion will be required for the existing Ø225mm from Victoria Road up Mitchell Street, which will provide a sewer service line for Buildings A, and B as shown in cross Figure 5-6. Water Services Coordinator (WSC) will be required for the demolition and diversion of the existing sewer mains reticulating through the site.

A Specialist Engineering Assessment (SEA) via an out-of-scope application may be required due to the sewer main deviation works. This will be further confirmed by the WSC.

The Ø225mm VC sewer mains running through the site will require the main to be broken up and capped at the site boundary for connection to the development. A SEA via an out-of-scope application will be required due to the sewer main works, this will need to be confirmed by the WSC. Where an SEA is required, all personnel providing input to the SEA must be competent. That is, possess appropriately relevant qualifications, knowledge, skills and experience to carry out their task successfully. The complexity and level of detail required for the SEA may be greater than for the design of the external activities. To analyse the ground/structure interaction necessary for Critical Assets, complex or high-risk assets, and understanding the risks to Sydney Water assets, requires Geotechnical, Civil and Structural engineers with appropriate qualifications, in-depth knowledge, high levels of skills and experience. Closely coordinated analysis and reporting is required between the various engineering disciplines. For further information of the SEA process refer to ADP report Appendix A.

The existing sewer manhole located within 191 Victoria Rd, if not demolished, will require 24/7 access by Sydney Water. Depending on excavation depths, and the advice from the WSC, the sewer manhole could remain pending excavation, piling and shoring requirements.

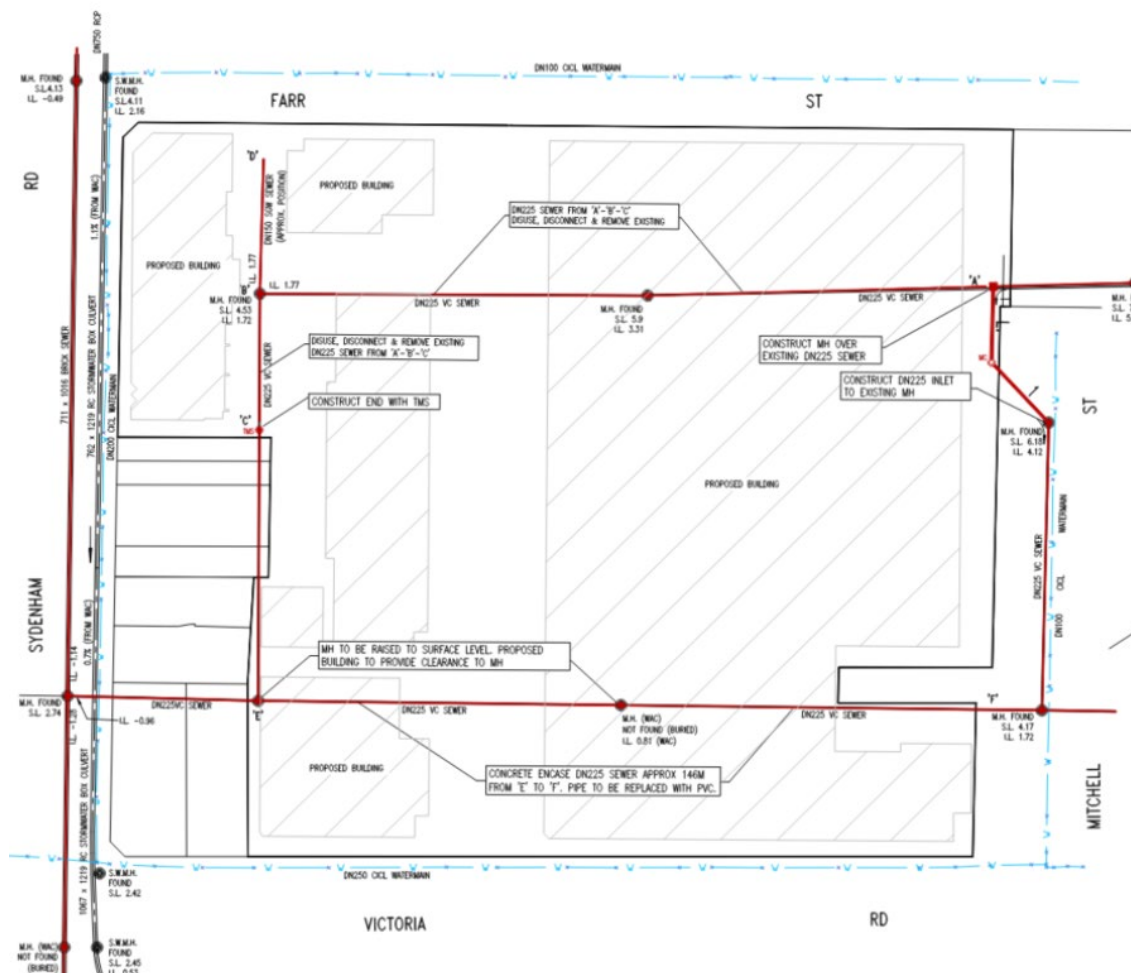
With reference to the WSC's Concept Sewer Deviation Plan, each building shall have its own individual sewer connection into the provisional sewer TMS connection point, into the diverted authority sewer main.

Subject to detailed design stage designs and invert levels, multiple sewer connection points may be required to be connected into the diverted authority sewer main and Section 73 applications will therefore be required to be made for the entire site and its individual buildings.



The exact location of the sewer connections will therefore be subjected to the respective Section 73 Notice of Requirements (NOR) advice.

**Figure 5-4: Sewer Main Option 1**



### 5.3.3 Water

The water main connection for the development is proposed to be via the Ø250mm CIL water main on Victoria Rd for Precinct 2 (Buildings C and D) developments. It is anticipated that the mains will be sufficient to serve Precinct 2.

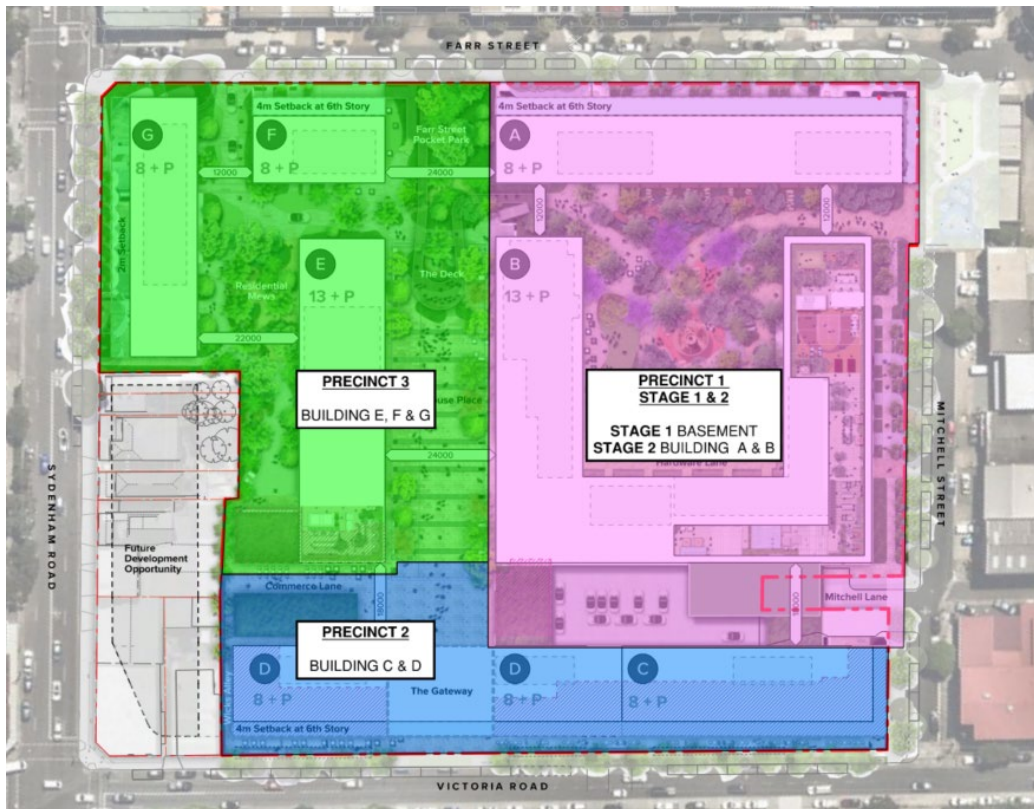
WSC advice will be required if Precinct 1 (Buildings A and B) can connect into Farr St's existing Ø100mm water supply or if the supply also needs to be connected from Victoria Rd. It is anticipated that the Victoria Rd mains will be sufficient to serve both Precincts 1 and 2.

For Precinct 3 (Buildings E, F and G), connection to the Ø200mm CIL water main in Sydneyham Rd is proposed. It is anticipated that the mains will be sufficient to serve Precinct 3. Should Sydney Water deem the main inadequate based on the load to the existing infrastructure an upgrade would potentially be required.

Subject to advice and coordination with the WSC, each precinct or building is likely to have its own water connection into the authority water main.

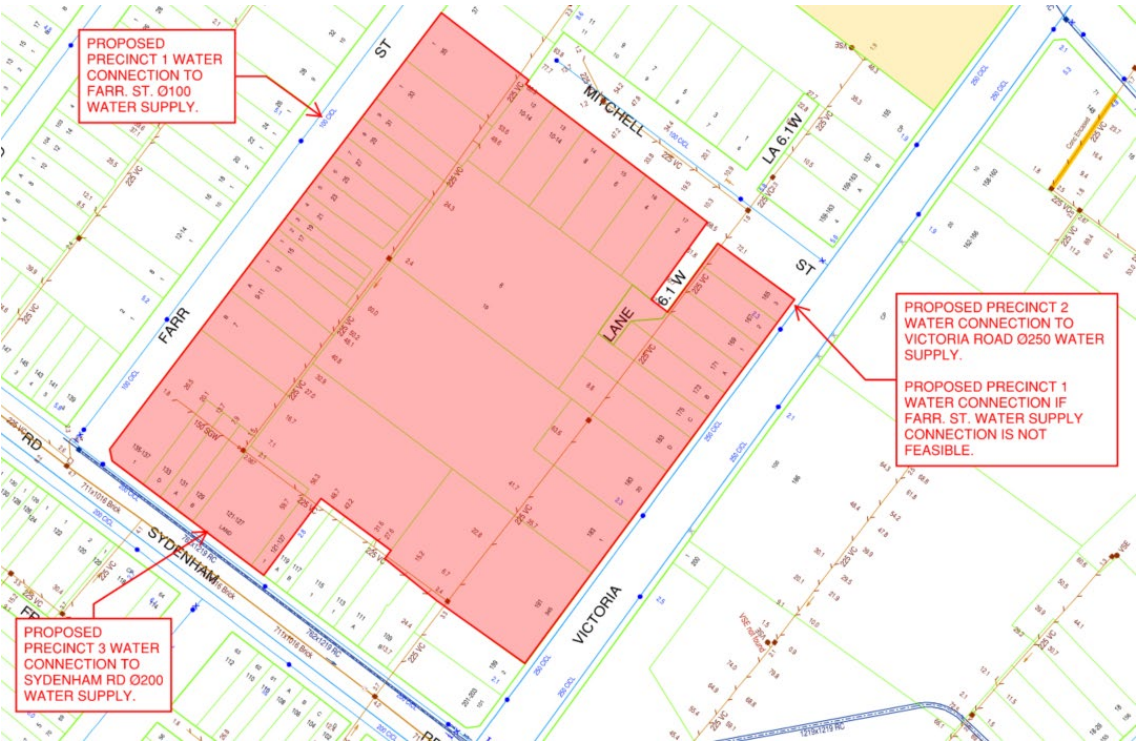


There will be multiple Section 73 connections for the site and individual precinct/buildings. The respective NOR will therefore determine the approved connection locations. When the Section 73 is lodged, Sydney Water will assess the DA Architectural Plans and estimated water/sewer loads, to advise via the NOR if existing infrastructure requires upgrading, based on the existing infrastructure's performance at the period of lodgement.



**Figure 5-5 Development Precinct Plan**

Figure 5-6: Proposed Water Main Connections



## 6 Maintenance and Access and Safety

### 6.1 Maintenance Requirements

Throughout the operational life of the development, the stormwater system will require regular simple maintenance to ensure effective functionality, minimise lifecycle costs and maintain safety.

It is proposed maintenance activities are the responsibility of the strata facilities department and should generally include:

- Removal of gross pollutants such as litter and debris from open areas to prevent from entering the stormwater network.
- Periodic inspection of the stormwater network including pit/pipe network, StormFilters, detention tanks and outlets at street pits.
- Periodic inspection of rainwater tanks (requirements to be set out by building hydraulic design).
- Unblocking of inlets and outlets (system flushing) as required, including flushing of subsoil drainage systems.
- Removal of sediment build-up as required.
- Landscaping maintenance to grass swales and bio-retention basins.
- Regular inspection of safety elements (such as proposed fencing/gates around bio-retention basins).

### 6.2 Access and Safety

The following items for access and safety should be considered by the project architect and civil engineering team for the detailed design stage of the project:

- Covers and grates to stormwater network to be lockable to prevent unauthorized access or displacement.
- Appropriate fencing / barriers with lockable gates to detention tanks and pipe headwall outlets to prevent access from children.

## 7 Erosion and Sediment Control

The erosion and sediment control measures will be undertaken for each lot with reference to Landcom Blue Book; Managing Urban Stormwater Soil for best practice through the construction phase to limit any sediments generated from the site from entering the external stormwater network. As such the following measures are to be undertaken as part of the proposed construction works:

- Sediment fence to be installed around the site perimeter to trap any sediment.
- Shaker grid/wash down facility to be installed at the site egress to limit any sediments from being carried outside of the constructions site.
- Stockpile location to be confirmed by contractor on-site during the construction phase, preferably to be located at the highest point of the site.

### 7.1 Construction Phase Pollutants of Concern

Pollutants that are typically generated during the construction phase of a development have been identified by reviewing the Managing Urban Stormwater: Soils and construction by Landcom. The various pollutants and their priority ratings are listed in the Table 7-1 below.

**Table 7-1: Construction Phase Pollutant Loads**

| Pollutant              | Source                                                                                       | Priority |
|------------------------|----------------------------------------------------------------------------------------------|----------|
| Litter                 | Paper, construction packaging, food packaging, cement bags, off-cuts                         | High     |
| Sediment               | Unprotected exposed soils and stockpiles during earthworks and building                      | High     |
| Hydrocarbons           | Fuel and oil spill, leaks from construction equipment and temporary carpark areas            | High     |
| Toxic materials        | Cement slurry, asphalt prime, solvents, cleaning agents, wash waters (e.g., from tile works) | High     |
| pH altering substances | Acid sulfate soils, cement slurry and wash waters                                            | High     |

### 7.2 Construction phase performance criteria

The construction phase performance criteria are limited to those parameters that are directly linked to construction site management practices are listed in Table 7-2.

**Table 7-2: Construction Phase Performance Criteria**

| Issue           | Construction Phase Stormwater Design Objectives |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Erosion Control | Erosion Control Measures                        | <ul style="list-style-type: none"> <li>• Minimise exposure of disturbed soils at any time</li> <li>• Divert water run-off from undisturbed areas around disturbed areas.</li> <li>• Determine the erosion risk rating using local rainfall erosivity, rainfall depth, soil-loss rate or other acceptable methods.</li> <li>• Implement erosion control methods corresponding to identified erosion risk rating</li> </ul> |

| Issue                                     |                                                             | Construction Phase Stormwater Design Objectives                                                                                                                                                                                                                                                                                     |
|-------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sediment Control                          | Sediment control measures                                   | Determine appropriate sediment control measures using: <ul style="list-style-type: none"> <li>Potential soil loss rate, or</li> <li>Monthly erosivity, or</li> <li>Average monthly rainfall</li> </ul>                                                                                                                              |
|                                           | Design storm for sediment control basins.                   | Collect and drain stormwater from disturbed soils to sediment basin for design storm event:                                                                                                                                                                                                                                         |
|                                           | Sediment basin dewatering                                   | <ul style="list-style-type: none"> <li>Design storm for sediment basin sizing is 80<sup>th</sup> % five-day event or similar.</li> </ul> Site discharge during sediment basin dewatering: <ul style="list-style-type: none"> <li>TSS &lt; 50mg/l TSS, and</li> <li>Turbidity not &gt; 10% receiving water turbidity, and</li> </ul> |
| Water Quality                             | Litter and other waste, hydrocarbons and other contaminants | Avoid wind-blown litter; remove gross pollutants.<br><br>Ensure there is no visible oil or grease sheen on released waters.<br><br>Dispose of waste containing contaminants at authorised facilities                                                                                                                                |
| Water stability and flood flow Management | Changes to the natural waterway hydraulics and hydrology    | For peak flow for the 1-year and 100-year ARI event, use constructed sediment basins to attenuate the discharge rate of stormwater from the site                                                                                                                                                                                    |

## 8 Conclusion

The objective of this Integrated Water Management Plan is to provide a comprehensive and detailed overview of the proposed stormwater drainage system for the proposed development site. It also outlines the approach taken to ensure compliance with various regulations and guidelines, including those set forth by the Inner West Council Marrickville DCP 2011 and relevant council guidelines.

This Water Management Plan has been developed in accordance with the guidelines and standards listed outlined below:

- Inner West Council Marrickville DCP 2011
- Australian Standards 3500.3 Plumbing and Drainage – Stormwater Drainage
- DRAINS User Manual
- MUSIC User Manual
- Managing Urban Stormwater – Soils and Construction, Volume 1, 4th edition, March 2004, Landcom
- National Code Australia

To manage the impacts of the proposed development on the existing site and downstream stormwater conditions. The Water Management Plan addressed the following components:

- Stormwater quantity management includes implementing detention tanks/basins to mitigate the peak flows from the site;
- Stormwater quality management implementing treatment trains with StormFilter cartridges, OceanGuard baskets, and rainwater tanks to achieve the water quality objectives;
- Grading design developed based on the architectural and landscape layout with external areas graded at compliant grades away from the building outline.
- Grading design tying into FFL set by flood/OSD freeboard requirement, existing boundary level and ensuring overland flow path is provided away from the buildings and towards Victoria Rd in case of emergency overflow from pit/pipe blockage.
- Recommended maintenance and safety and access considerations; and
- Construction phase erosion and sediment control measures to minimise soil erosion and control sediment discharge from site.

The implementation of the measures outlined in this plan in the development of this site will result in no worsening stormwater and environmental conditions and will provide improvement to quality of the runoff discharged from the site.

For a comprehensive understanding of the water management plan, this report should be read in conjunction with the civil drawing set prepared by Mott MacDonald, located in Appendix A.

## 9 Appendix A: Civil Drawings



MARRICKVILLE TIMBERYARD

119A-135 SYDENHAM RD, 7-35 FARR ST, 2-14  
MITCHELL ST & 165-191 VICTORIA RD, MARRICKVILLE

COVER SHEET, DRAWING INDEX AND LOCALITY PLAN

DRAWING LIST

GENERAL PLANS

|                            |                                             |
|----------------------------|---------------------------------------------|
| 104007-MMD-00-XX-DR-C-0001 | COVER SHEET, DRAWING LIST AND LOCALITY PLAN |
| 104007-MMD-00-XX-DR-C-0011 | GENERAL NOTES                               |
| 104007-MMD-00-XX-DR-C-0021 | GENERAL ARRANGEMENT PLAN                    |

BULK EARTHWORK PLANS

|                            |                               |
|----------------------------|-------------------------------|
| 104007-MMD-00-XX-DR-C-0071 | BULK EARTHWORKS CUT/FILL PLAN |
|----------------------------|-------------------------------|

SITEWORKS & STORMWATER PLANS

|                            |                                          |
|----------------------------|------------------------------------------|
| 104007-MMD-00-XX-DR-C-0101 | SITEWORKS & STORMWATER PLAN              |
| 104007-MMD-00-XX-DR-C-0131 | EXISTING CATCHMENT PLAN                  |
| 104007-MMD-00-XX-DR-C-0141 | PROPOSED DEVELOPMENT CATCHMENT PLAN      |
| 104007-MMD-00-XX-DR-C-0151 | STORMWATER DETAILS                       |
| 104007-MMD-00-XX-DR-C-0161 | ONSITE STORMWATER DETENTION TANK DETAILS |

PAVEMENT PLANS

|                            |               |
|----------------------------|---------------|
| 104007-MMD-00-XX-DR-C-0201 | PAVEMENT PLAN |
|----------------------------|---------------|

PUBLIC DOMAIN PLANS

|                            |                           |
|----------------------------|---------------------------|
| 104007-MMD-00-XX-DR-C-0601 | SITEWORKS PLAN - SHEET 01 |
| 104007-MMD-00-XX-DR-C-0602 | SITEWORKS PLAN - SHEET 02 |
| 104007-MMD-00-XX-DR-C-0603 | SITEWORKS PLAN - SHEET 03 |
| 104007-MMD-00-XX-DR-C-0604 | SITEWORKS PLAN - SHEET 04 |
| 104007-MMD-00-XX-DR-C-0605 | SITEWORKS PLAN - SHEET 05 |
| 104007-MMD-00-XX-DR-C-0606 | SITEWORKS PLAN - SHEET 06 |

|                            |                                         |
|----------------------------|-----------------------------------------|
| 104007-MMD-00-XX-DR-C-0651 | SIGNAGE AND LINEMARKING PLAN - SHEET 01 |
| 104007-MMD-00-XX-DR-C-0652 | SIGNAGE AND LINEMARKING PLAN - SHEET 02 |
| 104007-MMD-00-XX-DR-C-0653 | SIGNAGE AND LINEMARKING PLAN - SHEET 03 |
| 104007-MMD-00-XX-DR-C-0654 | SIGNAGE AND LINEMARKING PLAN - SHEET 04 |
| 104007-MMD-00-XX-DR-C-0655 | SIGNAGE AND LINEMARKING PLAN - SHEET 05 |
| 104007-MMD-00-XX-DR-C-0656 | SIGNAGE AND LINEMARKING PLAN - SHEET 06 |

COMBINED SERVICES PLANS

|                            |                        |
|----------------------------|------------------------|
| 104007-MMD-00-XX-DR-C-0801 | COMBINED SERVICES PLAN |
|----------------------------|------------------------|

EROSION AND SEDIMENT CONTROL PLANS

|                            |                                      |
|----------------------------|--------------------------------------|
| 104007-MMD-00-XX-DR-C-0951 | EROSION AND SEDIMENT CONTROL PLAN    |
| 104007-MMD-00-XX-DR-C-0955 | EROSION AND SEDIMENT CONTROL DETAILS |



LOCALITY PLAN

SCALE 1:2500 m

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| <div>M<br/>M<br/>MOTT<br/>MACDONALD</div> | Level 10, 383 Kent Street<br>Sydney, NSW 2000<br>Australia<br>NSW 1230, Australia<br>PO Box Q1678, QVB Sydney<br>T +61 (0)2 9098 6800<br>W www.mottmac.com |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| GENERAL NOTES |                                                                                                                                            |
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| GN1           | ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE NATIONAL CONSTRUCTION CODE OF AUSTRALIA AND THE RELEVANT CURRENT AUSTRALIAN STANDARDS. |
| GN2           | ANY DISCREPANCIES, OMISSIONS OR ERRORS SHALL BE REPORTED TO THE SUPERINTENDENT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.          |
| GN3           | DO NOT SCALE MEASUREMENTS FROM THE DRAWINGS.                                                                                               |

| SITEWORKS NOTES |                                                                                                                                                                                                                                                                                                                                                                                                                |
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| SN1             | DATUM : Australian Height Datum (AHD)<br>ORIGIN OF LEVELS : SSM 47493 - RL3.159<br>ORIGIN OF CO-ORDINATES : SSM 47493 - E-330198.094, N-6246506.291<br>SURVEY PREPARED BY : LTS SURVEYORS<br><a href="http://www.ltsl.com.au">www.ltsl.com.au</a><br>PH: 1300 587 000                                                                                                                                          |
| SN2             | THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK, AND REPORT ANY DISCREPANCIES TO THE SUPERINTENDENT.                                                                                                                                                                                                                                                       |
| SN3             | ALL EXISTING SERVICES (INCLUDING ANY NOT SHOWN ON THE PLANS) MUST BE ACCURATELY LOCATED IN POSITION AND LEVEL PRIOR TO ANY EXCAVATION. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. MINIMUM SERVICE CLEARANCES SHALL BE MAINTAINED FROM THE RELEVANT SERVICE AUTHORITY.                                                                                                                          |
| SN4             | THE CONTRACTOR SHALL ARRANGE FOR ALL SETTING OUT BY A REGISTERED SURVEYOR.                                                                                                                                                                                                                                                                                                                                     |
| SN5             | IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DEPARTMENT OF LAND AND REGIONAL INFRASTRUCTURE NSW, OF ANY SURVEY MARKS THAT WILL BE DESTROYED IN THE CONSTRUCTION OF WORKS.<br>CONTACT HEAD OFFICE ON 1300 052 637 <a href="http://www.lpi.nsw.gov.au">www.lpi.nsw.gov.au</a> AND <a href="http://ecms.lpi.nsw.gov.au/status_report_frames.html">http://ecms.lpi.nsw.gov.au/status_report_frames.html</a> |
| SN6             | THE CONTRACTOR SHALL OBTAIN ALL REGULATORY AUTHORITY APPROVALS AT THEIR OWN EXPENSE.                                                                                                                                                                                                                                                                                                                           |
| SN7             | WHERE NEW WORKS ABUT EXISTING, THE CONTRACTOR MUST ENSURE THAT A SMOOTH AND EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.                                                                                                                                                                                                                                                                                |
| SN8             | ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, UNLESS SPECIFIED OTHERWISE.                                                                                                                                                                                                                                                                                                                 |
| SN9             | EXCAVATED TRENCHES SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT NATURAL MATERIAL. ANY SUBSIDENCES DURING THE PERIOD TO BE RECTIFIED AS DIRECTED BY THE SUPERINTENDENT.                                                                                                                                                                                                                               |
| SN10            | ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE LANDSCAPE ARCHITECT'S DETAILS AND / OR BY:                                                                                                                                                                                                                              |

|                                                                                                                                                                                                                                                              |  |
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| PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE, ENSURING THAT NOTHING IS NAILED TO THEM.                                                                                                                          |  |
| PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS:                                                                                                                              |  |
| ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5m OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER.                                                                       |  |
| A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300mm CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.                      |  |
| SN11 RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SUPERINTENDENT OR AS SPECIFIED IN THE WORKS CONTRACT. |  |

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| PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE, ENSURING THAT NOTHING IS NAILED TO THEM.                                                                                                                          |  |
| PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS:                                                                                                                              |  |
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| SN11 RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SUPERINTENDENT OR AS SPECIFIED IN THE WORKS CONTRACT. |  |

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02 17.12.24 ISSUE FOR SSDA J.H.L. DF  
01 08.11.24 ISSUE FOR DRAFT SSDA J.H.L. DF

Rev Date Description Ch'k'd App'd

FILE LOCATION

| EARTHWORKS NOTES |                                                                                                                                                                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EW1              | ALL WORK SHALL COMPLY WITH AS3798 (2007) - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.                                                                                                                                                                                                |
| EW2              | STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING ENGINEERING MATERIAL AND STOCKPILE ON SITE FOR REUSE AS DIRECTED BY THE SUPERINTENDENT                                                                                                                                                                              |
| EW3              | ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED FILL MATERIAL.                                                                                                                                                                                  |
| EW4              | ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING -<br>A) FREE FROM ORGANIC AND PERISHABLE MATTER,<br>B) MAXIMUM PARTICLE SIZE 75mm,<br>C) PLASTICITY INDEX - BETWEEN 2% AND 15%.                                                                     |
| EW5              | ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS AND COMPACTED TO OPTIMUM MOISTURE CONTENT (+/- 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS1289.5.1.1 - 2003 -METHODS OF TESTING SOILS FOR ENGINEERING PURPOSES, OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY - |

| LOCATION                  | STANDARD DRY DENSITY                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UNDER BUILDING SLABS      | 98%                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VEHICULAR PAVED AREAS     | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| NON-VEHICULAR PAVED AREAS | 98%                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| LANDSCAPED AREAS          | 95%                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EW6                       | THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR OWN EXPENSE. |
| EW7                       | TESTING OF THE FILL MATERIAL SHALL BE CARRIED OUT BY AN APPROVED NATI REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE.                                                                                                                                                                                                                                                                                                                          |
| EW8                       | WHERE THE SUBGRADE IS UNABLE TO SUPPORT CONSTRUCTION EQUIPMENT, OR IT IS NOT POSSIBLE TO COMPACT OVERLYING PAVEMENT LAYERS, ONLY BECAUSE OF THE SUBGRADE MOISTURE CONTENT, THEN THE CONTRACTOR SHALL CONDITION OR REPLACE THE MATERIAL AT THE CONTRACTORS DISCRETION AND EXPENSE.                                                                                                                                                                |
| EW9                       | EARTHWORKS CALCULATIONS ARE VOLUMETRIC ONLY AND DO NOT ALLOW FOR BULKING OF EXCAVATED MATERIAL. IT IS THE CONTRACTORS RESPONSIBILITY TO MAKE ALLOWANCES FOR THESE ITEMS AS PART OF THE TENDER / WORKS.                                                                                                                                                                                                                                           |
| EW10                      | NO ALLOWANCE HAS BEEN MADE FOR FOOTINGS OR FOUNDATIONS, RETAINING WALLS OR TRENCHING. IT IS THE CONTRACTORS RESPONSIBILITY TO MAKE ALLOWANCES FOR THESE ITEMS AS PART OF THE TENDER / WORKS.                                                                                                                                                                                                                                                     |

| EXISTING SERVICES NOTES |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ES1                     | EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT.                                                                                   |
| ES2                     | THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL REUNDANT EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.                                                                                                                                                 |
| ES3                     | THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.                                                                                                                                                                                                                                                                                |
| ES4                     | IF REQUIRED, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT SERVICE AUTHORITY. |
| ES5                     | INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. THE CONTRACTOR IS TO OBTAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION - THE CONTRACTOR IS RESPONSIBLE FOR ALL LIAISON.                                                                                                                                             |
| ES6                     | ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 800mm pVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND THE EDGE OF PAVING.                                                                                                                                                                                                                       |
| ES7                     | CLEARANCE AND COVER REQUIREMENTS SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY BEFORE COMMENCEMENT OF WORKS AND SHALL BE ADHERED TO AT ALL TIMES.                                                                                                                                                                                                                                           |
| ES8                     | CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL OPERATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS ONLY.                                                                                                                                                                                                                   |

| SOIL AND WATER MANAGEMENT NOTES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GENERAL INSTRUCTIONS            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SWM01                           | THESE PLANS PRESENT A CONCEPTUAL SOIL AND WATER MANAGEMENT PLAN (SWMP) ONLY AND SHOWS A POSSIBLE WAY OF MANAGING SOIL AND EROSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT AND MANAGEMENT OF THE SITE AND PREPARING A DETAILED PLAN AND OBTAINING APPROVAL FROM THE RELEVANT AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY WORKS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SWM02                           | THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS AND ANY OTHER PLANS, WRITTEN INSTRUCTIONS, SPECIFICATION OR DOCUMENTATION THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT OF THE SUBJECT SITE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SWM03                           | THE CONTRACTOR WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE CONSISTENT WITH MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION - ALSO KNOWN AS THE BLUE BOOK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SWM04                           | ALL BUILDERS AND SUB-CONTRACTORS SHALL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| EROSION CONTROL                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SWM05                           | WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNTIL SEDIMENT CONCENTRATION IS LESS THEN OR EQUAL TO 50mg/L. IF THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND /OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SWM06                           | ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER) THE SURFACE WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SWM07                           | ACCEPTABLE RECEPTORS WILL BE CONSTRUCTED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SWM08                           | 'SEDIMENT' FENCING WILL BE INSTALLED AS INDICATED ON THE PLANS AND AT THE DIRECTION OF SITE SUPERINTENDENT TO ENSURE CONTAINMENT OF SEDIMENT. FENCING WILL BE NAILED TO THE OVERFLOW UNDER STABILISED CONDITIONS INTO THE SEDIMENT BASIN, TO SAFELY CONVEY WATER INTO A SUITABLE FILTERING SYSTEM SHOULD THE PORES IN THE FABRIC BLOCK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SWM09                           | THE SEDIMENT BASINS WILL BE CONSTRUCTED WITH THE MINIMUM WET SEDIMENT CAPACITY OF XX CUBIC METRES AND DESIGNED TO REMAIN STABLE IN AT LEAST THE 1% EVENT. ARTIFICIAL FLOCCULATION OF THE FINER PARTICLES MAY NOT BE NECESSARY IN THIS INSTANCE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SWM10                           | STOCKPILES SHOULD NOT BE LOCATED WITHIN 5m OF TREES AND HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS, DRAINAGE LINES, PAVED AREAS AND DRIVEWAYS, WHERE THEY ARE WITHIN 9M FROM SUCH AREAS. SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSTREAM WATERS. MEASURES SHOULD ALSO BE APPLIED TO PREVENT THE EROSION OF THE STOCKPILE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SWM11                           | ALL CUT AND FILL BATTERS ARE TO BE SEEDED AND MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SWM12                           | ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY-<br>a. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE,<br>b. ENSURING THAT NOTHING IS NAILED TO THEM,<br>c. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS,<br>(i) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER,<br>(ii) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH<br>(iii) CARE IS TAKEN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SWM13                           | DURING WINDY WEATHER, LARGE DISTURBED UNPROTECTED AREAS SHOULD BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SWM14                           | TEMPORARY PROTECTION FROM EROSION FORCES WILL BE UNDERTAKEN ON LANDS WHERE FINAL SHAPING HAS NOT BEEN COMPLETED BUT WORKS ARE UNLIKELY TO PROCEED FOR PERIODS OF TWO MONTHS OR MORE (E.G. ON TOPSOIL STOCKPILES). THIS MAY BE ACHIEVED WITH A VEGETATIVE COVER, A RECOMMENDED LISTING OF PLANT SPECIES FOR TEMPORARY COVER IS -<br>i) AUTUMN / WINTER SOWING<br>- OATS / RYE CORN AT 20 kg/ha<br>- JAPANESE MILLET AT 10 kg/ha<br>ii) SPRING / SUMMER SOWING<br>- JAPANESE MILLET AT 20 kg/ha<br>- OATS / RYE CORN AT 10 kg/ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SWM15                           | DIVERSION BANKS / CHANNELS WILL BE REHABILITATED AS SOON AS POSSIBLE AND WITHIN 5 WORKING DAYS FROM THEIR FINAL SHAPING. OTHER THAN IN THE WINTER MONTHS, SUITABLE MATERIALS INCLUDE TURF GRASSES SUCH AS COULOR OR KIKUYU DURING WINTER, OR AT OTHER TIMES WHEN TEMPORARY REHABILITATION (MORE THAN 3 MONTHS) IS REQUIRED, IT IS SUGGESTED THAT HESSIAN CLOTH IS USED BUT ONLY IF TACKED WITH APPROPRIATE PEGS AND AN ANKOR BETWEEN EMBANKMENT, FOOT AND VEHICULAR TRAFFIC SHOULD BE KEPT AWAY FROM THESE AREAS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SWM16                           | UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS, WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CONSTRUCTION SEQUENCE           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SWM17                           | WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHOULD BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE -<br>(i) INSTALL MLET SEDIMENT TRAPS TO ALL GULLY PITS FRONTING THE SITE,<br>(ii) INSTALL A 1.8m CHAIN WIRE FENCE AROUND THE BOUNDARIES AND ATTACH HESSIAN CLOTH OR SIMILAR TO IT ON THE WINDWARD SIDE (TIES AT THE TOP, CENTRE AND BOTTOM AND AT 1M INTERVALS OR AS INSTRUCTED BY THE SUPERINTENDENT),<br>(iii) INSTALL GEOFABRIC SEDIMENT FENCE AND SEDIMENT TRAPS AROUND ALL PERMANENT STORMWATER RETICULATION STRUCTURES AS SHOWN ON THE PLAN,<br>(iv) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN OR TO LOCATION AS DETERMINED BY SUPERINTENDENT,<br>(v) INSTALL DIVERSION BANKS ALONG THE BOUNDARY WHERE REQUIRED, REHABILITATE DISTURBED LANDS DOWNSLOPE FROM THE BASINS WITHIN 20 WORKING DAYS,<br>(vi) ENSURE THAT THE SEDIMENT BASIN IS DIRECTED ONTO A TURRED AREA AND DRAINS TO A SUITABLE LOCATION. A TEMPORARY STORMWATER LINE MAY BE NECESSARY TO CONVEY THE FLOWS TO THIS LOCATION. CONSTRUCT DIVERSION CHANNELS AT THE BOUNDARY TO DRAIN INTO THE SEDIMENT BASIN AS SHOWN ON PLANS,<br>(vii) AT COMPLETION STABILISE SITE AND DECOMMISSION SEDIMENT BASIN AND ALL EROSION CONTROL DEVICES. |
| SWM18                           | TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SWM19                           | FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| SITE INSPECTION AND MAINTENANCE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SWM20                           | AT LEAST WEEKLY AND AFTER EVERY RAIN FALL EVENT, THE CONTRACTOR WILL INSPECT THE SITE AND ENSURE THAT -<br>(i) DRAINS AND ALL SEDIMENT CONTROL DEVICES OPERATE EFFECTIVELY AND INITIATE REPAIR OR MAINTENANCE AS REQUIRED,<br>(ii) RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SUPERINTENDENT,<br>(iii) SPILLED SAND (OR OTHER MATERIALS) IS REMOVED FROM HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS, GUTTERS, PAVED AREAS AND DRIVEWAYS,<br>(iv) SEDIMENT IS REMOVED FROM BASINS AND / OR TRAPS WHEN LESS THAN 20m <sup>3</sup> OF TRAPPING CAPACITY REMAIN PER 1000m <sup>2</sup> OF DISTURBED LANDS, AND / OR LESS THAN 500mm DEPTH REMAINS IN THE SETTLING ZONE. ANY COLLECTED SEDIMENT WILL BE DISPOSED IN AREAS WHERE FURTHER POLLUTION TO DOWN SLOPE LANDS AND WATERWAYS IS UNLIKELY,<br>(v) REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND INITIATE UPGRADING OR REPAIR AS APPROPRIATE.                                                                                                                                                             |
| SWM21                           | THE CONTRACTOR SHALL PROVIDE ALL MONITORING CONTROL AND TESTING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| STORMWATER NOTES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| SW1              | FOR RESIDENTIAL SUBDIVISIONS AND PUBLIC ROADS -<br><br>ALL Ø375mm TO Ø800mm DRAINAGE PIPES SHALL BE CLASS 4 APPROVED SPIGOT AND SOCKET REINFORCED CONCRETE PIPES WITH RUBBER RING JOINTS (UNO). ALL Ø805mm OR LARGER DRAINAGE PIPES SHALL BE CLASS 3 APPROVED SPIGOT AND SOCKET REINFORCED CONCRETE PIPES WITH RUBBER RING JOINTS (UNO).<br><br>ALL PVC-U DRAINAGE PIPES IN FOOTWAYS OR ACCESS WAYS SHALL BE DWV GRADE CLASS S8 IN ACCORDANCE WITH AS/NZS 1260:2009 - PVC-U PIPES AND FITTINGS FOR DRAIN, WASTE AND VENT APPLICATION. HEAVY DUTY PVC-U PIPES TO BE IN ACCORDANCE WITH AS/NZS 1254 - 2010 - PVC PIPES AND FITTINGS FOR STORM AND SURFACE WATER APPLICATIONS MAY BE USED WITHIN ALLOTMENTS.<br><br>SW2 FOR COMMERCIAL OR INDUSTRIAL SITES -<br><br>ALL Ø300mm TO Ø800mm DRAINAGE PIPES SHALL BE CLASS 4 APPROVED SPIGOT AND SOCKET REINFORCED CONCRETE PIPES WITH RUBBER RING JOINTS (UNO). ALL Ø805mm OR LARGER DRAINAGE PIPES SHALL BE CLASS 3 APPROVED SPIGOT AND SOCKET REINFORCED CONCRETE PIPES WITH RUBBER RING JOINTS (UNO).<br><br>ALL DRAINAGE PIPES LESS THAN OR EQUAL TO Ø225mm SHALL BE PVC-U DWV GRADE CLASS S8 IN ACCORDANCE WITH AS/NZS 1260:2009 - PVC-U PIPES AND FITTINGS FOR DRAIN, WASTE AND VENT APPLICATION WITH SOLVENT WELDED JOINTS.<br><br>SW3 EQUIVALENT STRENGTH FIBROUS REINFORCED CONCRETE (F.R.C.) AND / OR HIGH DENSITY POLYETHYLENE (H.D.P.E.) MAY BE USED SUBJECT TO APPROVAL BY THE SUPERINTENDENT.<br><br>SW4 ALL PIPE JUNCTIONS UP TO AND INCLUDING Ø450mm AND TAPERS, SHALL BE VIA PURPOSE MADE FITTINGS (UNO).<br><br>SW5 MINIMUM GRADE TO STORMWATER LINES TO BE 1% (UNO).<br><br>SW6 CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO PROVIDE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.<br><br>SW7 ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH WITH NO PROTRUSIONS.<br><br>SW8 ALL IN-SITU CONCRETE PITS TO BE 320pa MINIMUM AT 28 DAYS.<br><br>SW9 PITS AND PIPES IN AREAS OF SALINITY HAZARD SHALL HAVE INCREASED COVER TO ANY REINFORCEMENT.<br><br>SW10 Precast concrete pits may be installed in lieu of cast in-situ pits, when pipe junctions are accommodated within the overall dimensions of the pit, and approved by the superintendent.<br><br>SW11 PITS DEEPER THAN 1000mm SHALL HAVE STEP IRONS INSTALLED IN ACCORDANCE WITH THE LOCAL OR STATUTORY AUTHORITY REQUIREMENTS.<br><br>SW12 BEDDING SHALL BE TYPE H2 (UNO) FOR PIPES NOT UNDER PAVEMENTS, AND TYPE H22 FOR PIPES UNDER PAVEMENTS IN ACCORDANCE WITH AS/NZS 3725 - 2007 - DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES.<br><br>SW13 BACKFILL TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL TO 300mm (MIN) ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO PAVEMENT SUBGRADE WITH SAND OR APPROVED GRAVEL SUB-BASE COMPACTED IN 150mm LAYERS TO 98% STANDARD MAXIMUM DRY DENSITY. THE CONTRACTOR IS TO ENSURE COMPACTION EQUIPMENT IS APPROPRIATE FOR THE PIPE CLASS USED.<br><br>SW14 WHERE STORMWATER LINES PASS UNDER FLOOR SLABS DWV GRADE PVC-U RUBBER RING JOINTS ARE TO BE USED (UNO).<br><br>SW15 WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED PVC-U DWV GRADE CLASS S8 PIPE SHALL BE USED.<br><br>SW16 PROVIDE 3m LENGTH OF Ø100mm SUBSOIL DRAINAGE LINE OR 200 NYLEX STRIP DRAIN SURROUNDED WITH 150mm OF 20mm BLUE METAL OR GRAVEL, AND WRAPPED IN BIODR 424 GEOTEXTILE FILTER FABRIC OR APPROVED EQUIVALENT, AT INVERT OF INCOMING UPSTREAM PIPE ON EACH PIT. |

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|                                                                                    |                                                                                                                                                                                               |  |       |  |        |  | MARRICKVILLE TIMBER YARDS<br>MARRICKVILLE, NSW 2204<br>GENERAL NOTES |  | Drawn: J O<br>Designed: J. LAOKITTICHAJ<br>Checked: J.H. LEE<br>Approved: D. FETTELL |  |
|                                                                                    |                                                                                                                                                                                               |  |       |  |        |  |                                                                      |  | Revision: 02<br>Status: INF<br>Security: STD                                         |  |
|                                                                                    |                                                                                                                                                                                               |  |       |  |        |  |                                                                      |  | DRAWING NUMBER<br>1404007-MMD-00-XX-DR-C-0011                                        |  |

Rev Date Description Ch'k'd App'd

FILE LOCATION

ISSUED BY: J. LAOKITTICHAJ





LEGEND

SITE BOUNDARY

ADJACENT BOUNDARY

PROPOSED / EXISTING / EXISTING REMOVED TREES

GENERAL NOTES

1.

FOR GENERAL NOTES, REFER TO DRAWING SERIES 0011

2.

FOR GRADING AND DRAINAGE PLANS, REFER TO DRAWING SERIES 0101.

3.

FOR PAVEMENT TYPES AND EXTENTS, REFER TO DRAWING SERIES 0201.

4.

FOR COMBINED UTILITIES PLANS, REFER TO DRAWING SERIES 0801.

5.

FOR SOIL & WATER MANAGEMENT PLANS, REFER TO DRAWING SERIES 0901.

6.

REFER TO LANDSCAPE PLANS FOR THE TREES TO BE REMOVED. ARBORIST TO CONFIRM REMOVAL OF EXISTING TREES.

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02 17.12.24

01 08.11.24

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App'd

SCALE

CLIENT

TITLE

MARRICKVILLE TIMBER YARDS

MARRICKVILLE, NSW 2204

GENERAL ARRANGEMENT

PLAN

DRAWING INFORMATION

Drawn: J. O

Designed: J. LAOKITTICHAJ

Checked: J.H. LEE

Approved: D. FETTELL

Revision: 02

Status: INF

Security: STD

DRAWING NUMBER

104007-MMD-00-XX-DR-C-0021

FILE LOCATION: C:\Users\mottmac\OneDrive\Documents\104007-MMD-00-XX-DR-C-0021.dwg



| LEGEND |                                         |
|--------|-----------------------------------------|
|        | SITE BOUNDARY                           |
|        | ADJACENT BOUNDARY                       |
|        | EXISTING EASEMENT BOUNDARY              |
|        | SURVEY                                  |
|        | PROPOSED AREA OF BASEMENT 01 EXCAVATION |

| EARTHWORK VOLUMES                                                                                        |  |
|----------------------------------------------------------------------------------------------------------|--|
| APPROXIMATE VOLUMES:                                                                                     |  |
| TOTAL CUT = - 37,721 m <sup>3</sup>                                                                      |  |
| TOTAL FILL = 0 m <sup>3</sup>                                                                            |  |
| BALANCE = - 37,721 m <sup>3</sup> (EXCESS CUT)                                                           |  |
| ASSUMPTIONS:                                                                                             |  |
| <ul style="list-style-type: none"><li>AVERAGE EXISTING GROUND LEVEL (CALCULATED) = RL 5.50 mAH</li></ul> |  |
| EXCAVATION LEVEL = RL 0.58 mAH                                                                           |  |
| EXCAVATION DEPTH = RL 5.50m - RL 0.58m = 4.92                                                            |  |

| EARTHWORK NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ESTIMATED VOLUMES BETWEEN EXISTING SURFACE RL 5.50 AND PROPOSED BASEMENT LEVEL 01 RL 0.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| <ul style="list-style-type: none"><li>IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL VOLUMES PRIOR TO CONSTRUCTION.</li><li>TOPSOIL STRIPPING HAS NOT BEEN INCLUDED WITHIN THE VOLUME CALCULATIONS.</li><li>NO ALLOWANCES HAS BEEN MADE FOR BUILDING SLABS.</li><li>NO ALLOWANCES HAS BEEN MADE FOR CONCRETE PAVEMENT.</li><li>NO ALLOWANCES HAS BEEN MADE FOR FOOTPATH PAVEMENT.</li><li>NO ALLOWANCES HAS BEEN MADE FOR RETAINING WALL FOOTINGS.</li><li>VOLUMES WITHIN STORMWATER TRENCHES HAS NOT BEEN CALCULATED.</li><li>NO BULKING FACTORS HAVE BEEN APPLIED.</li></ul> |  |

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| <div>M<br/>M<br/>MOTT<br/>MACDONALD</div> | Level 10, 383 Kent Street<br>Sydney, NSW 2000<br>Australia<br>NSW 1230, Australia<br>PO Box Q1678, QVB Sydney<br>T +61 (0)2 9096 6800<br>W www.mottmac.com |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |
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LEGEND

SITE BOUNDARY

ADJACENT BOUNDARIES

EXISTING EASEMENT

PROPOSED LANDSCAPE TREES

EXISTING TREES TO BE RETAINED

PROPOSED SURFACE INLET / JUNCTION PIT LIDS

PROPOSED DRAINAGE PIPE

ABOVE GROUND OSD 1

OSD 2 (ON TOP OF ROOF)

ABOVE GROUND OSD 3

ABOVE GROUND OSD 4

GENERAL NOTES

1.

REFER TO HYDRAULIC ENGINEER'S DRAWINGS FOR ROOF DRAINAGE AND RAINWATER TANK DETAILS. RAINWATER TANK OVERFLOW TO CONNECT TO DESIGNATED OSD AS PER POST DEVELOPMENT CATCHMENT PLAN DRAWING 0141.

2.

REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPE SUBSOIL DETAILS.

3.

FINAL LOCATION OF PROPOSED TREES TO BE COORDINATED WITH PROPOSED STORMWATER NETWORK DURING NEXT DESIGN PHASE.

4.

ALL EXISTING STORMWATER PITS AND PIPES WITHIN SITE TO BE MADE REDUNDANT AND REMOVED UNLESS NOTED OTHERWISE.

5.

PROPOSED STORMWATER SYSTEM TO CONNECT TO EXISTING COUNCIL STORMWATER PIT IN VICTORIA RD.

6.

PROVIDE SUBSOIL DRAINAGE BEHIND RETAINING WALL.

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Date

Description

Chk'd

App'd

SCALE

0 20m 40m

1:400

CLIENT

TITLE

MARRICKVILLE TIMBER YARDS  
MARRICKVILLE, NSW 2204  
SITWORKS & STORMWATER  
PLAN

DRAWING INFORMATION

Drawn: J. O

Designed: J. LAOKITTICHAJ

Checked: J.H. LEE

Approved: D. FETTELL

Revision: 02

Status: INF

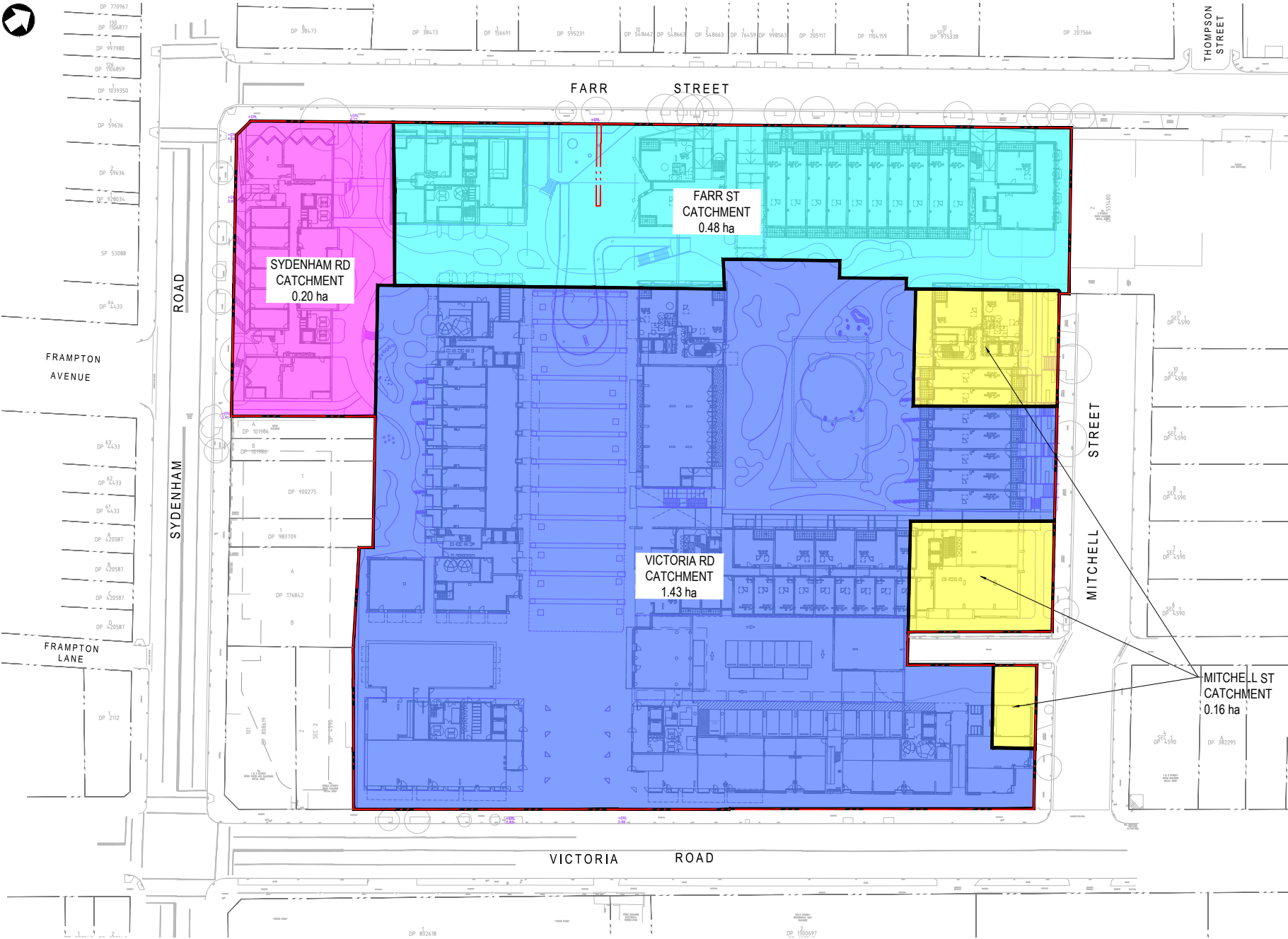
Security: STD

DRAWING NUMBER

104007-MMD-00-XX-DR-C-0101

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ISSUED BY: J. LAOKITTICHAJ



| LEGEND             |                                  |
|--------------------|----------------------------------|
| SITE AREA = 2.27ha |                                  |
| <div></div>        | EXISTING CATCHMENT - VICTORIA RD |
| <div></div>        | EXISTING CATCHMENT - FARR ST     |
| <div></div>        | EXISTING CATCHMENT - MITCHELL ST |
| <div></div>        | EXISTING CATCHMENT - SYDENHAM RD |

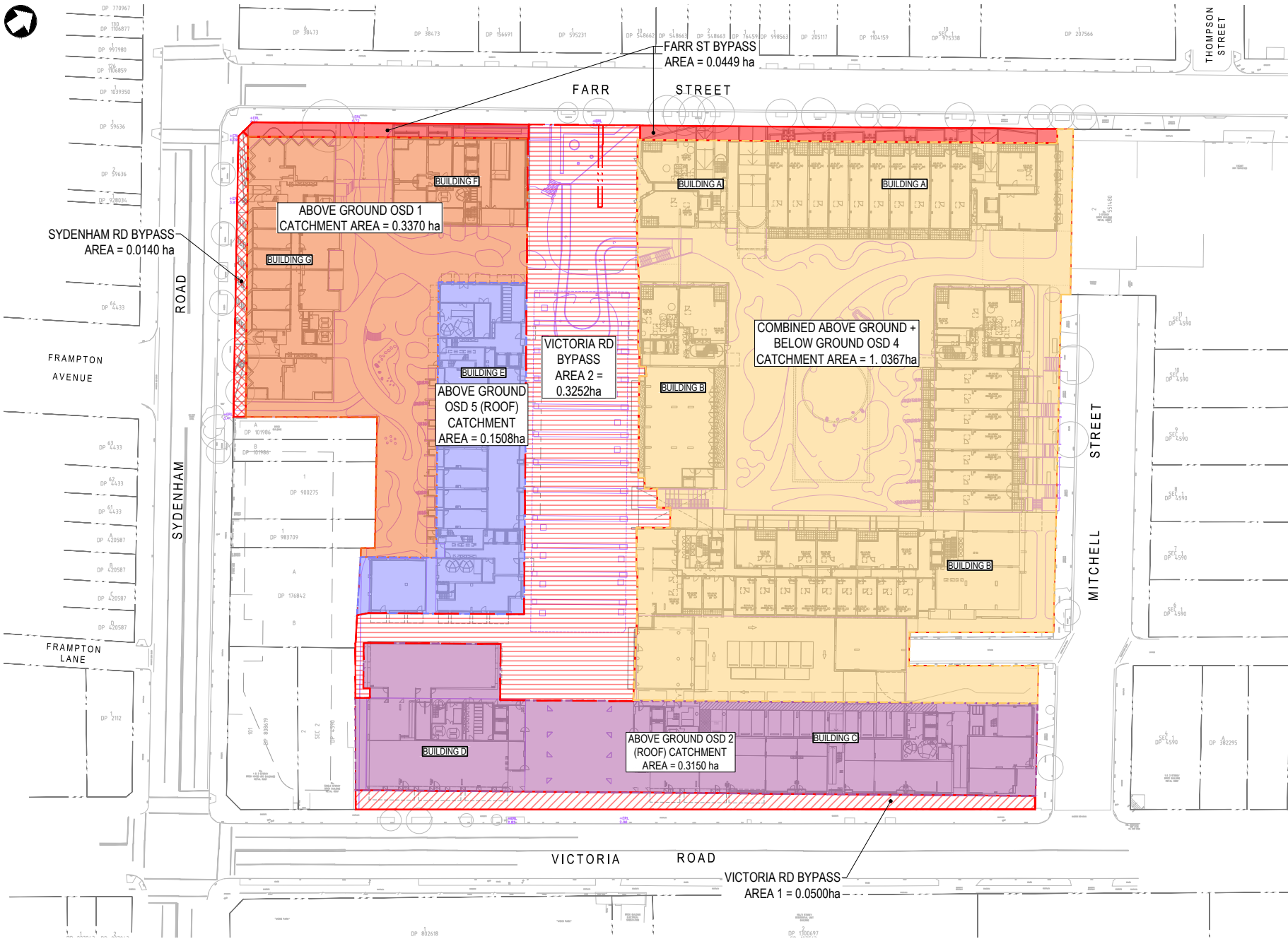
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|                                                                  |                                                                                                                                                            |                                                                |                  |                          |        |                                                                                            | Drawn: J. O<br>Designed: J. LAOKITTICHAJ<br>Checked: J.H. LEE<br>Approved: D. FETTEL | Revision: 02<br>Status: INF<br>Security: STD | DRAWING NUMBER<br>104007-MMD-00-XX-DR-C-0131 |

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100 A1 Salmons 2 64mm



LEGEND

SITE BOUNDARY

ADJACENT BOUNDARY

EASEMENT BOUNDARY

TOTAL SITE AREA = 2.27 ha

OSD CATCHMENT

ABOVE GROUND OSD 1 CATCHMENT AREA (85% IMPERVIOUS ASSUMED)

ABOVE GROUND OSD 2 (ROOF) CATCHMENT AREA (100% IMPERVIOUS)

ABOVE GROUND OSD 4 CATCHMENT AREA (85% IMPERVIOUS ASSUMED)

ABOVE GROUND OSD 5 (ROOF) CATCHMENT AREA (85% IMPERVIOUS ASSUMED)

FARR ST BYPASS AREA (0% IMPERVIOUS ASSUMED)

SYDENHAM RD BYPASS AREA (0% IMPERVIOUS ASSUMED)

VICTORIA RD BYPASS AREA 1 (0% IMPERVIOUS ASSUMED)

VICTORIA RD BYPASS AREA 2 (85% IMPERVIOUS ASSUMED)

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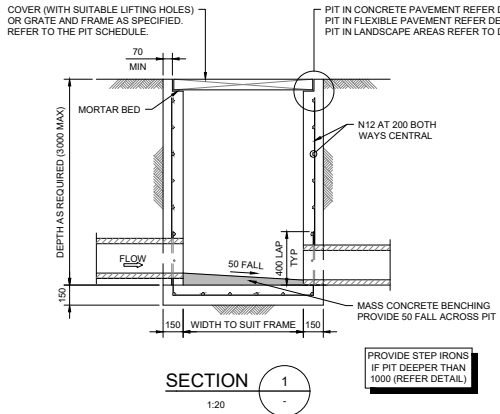
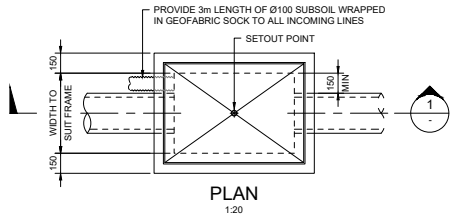
|                                                                  |                                                                                                                                                            |          |                      |     |    |                                                                |               |                            |        |                                                                                                                              |  |  |                     |  |  |
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|                                                                  | 02                                                                                                                                                         | 17.12.24 | ISSUE FOR SSDA       | JHL | DF | Drawn: J. O                                                    | Revision: 02  | 104007-MMD-00-XX-DR-C-0141 |        |                                                                                                                              |  |  |                     |  |  |
|                                                                  | 01                                                                                                                                                         | 08.11.24 | ISSUE FOR DRAFT SSDA | JHL | DF | Designed: J. LAOKITTICHAJ                                      | Status: INF   |                            |        |                                                                                                                              |  |  |                     |  |  |
|                                                                  |                                                                                                                                                            |          |                      |     |    | Checked: J.H. LEE                                              | Security: STD |                            |        |                                                                                                                              |  |  |                     |  |  |
|                                                                  |                                                                                                                                                            |          |                      |     |    | Approved: D. FETTEL                                            |               |                            |        |                                                                                                                              |  |  |                     |  |  |
| Rev Date Description                                             |                                                                                                                                                            |          | Chk'd App'd          |     |    |                                                                |               |                            |        |                                                                                                                              |  |  |                     |  |  |

FILE LOCATION: C:\Users\mottmac\Documents\Projects\104007-MMD-00-XX-DR-C-0141\104007-MMD-00-XX-DR-C-0141.dwg

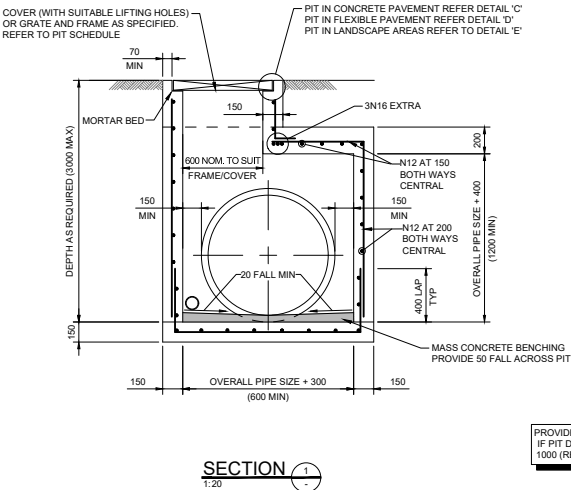
Not for Construction

104007-MMD-00-XX-DR-C-0141





SURFACE INLET / JUNCTION PIT  
(PIPE SIZES ≤ Ø450)



SURFACE INLET / JUNCTION PIT  
(PIPE SIZES > Ø450)

**STORMFILTER DESIGN TABLE**

- STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED.
- THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER CERTIFYING ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S).
- FILTER CARTRIDGES SHALL BE MEDIA FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 178mm.

|                                           |     |      |      |
|-------------------------------------------|-----|------|------|
| CARTRIDGE NAME / SIPHON HEIGHT (mm)       | 690 | 460  | 310  |
| CARTRIDGE PHYSICAL HEIGHT (mm)            | 840 | 600  | 600  |
| TYPICAL WEIR HEIGHT [H] (mm)              | 920 | 690  | 540  |
| CARTRIDGE FLOW RATE FOR ZPG MEDIA (L/s)   | 1.6 | 1.1  | 0.7  |
| CARTRIDGE FLOW RATE FOR PSORB MEDIA (L/s) | 0.9 | 0.46 | 0.39 |

**SITE SPECIFIC DATA REQUIREMENTS**

|                                 |  |
|---------------------------------|--|
| STRUCTURE ID                    |  |
| NUMBER OF CARTRIDGES REQ'D      |  |
| SIPHON HEIGHT (310 / 460 / 690) |  |
| MEDIA TYPE (ZPG / PSORB)        |  |
| WATER QUALITY FLOW RATE (L/S)   |  |
| DIMENSION A                     |  |
| DIMENSION B                     |  |

TOTAL CARTRIDGE BAY AREA (A x B)  
TO MATCH AREA REQUIRED BY MUSIC MODELLING OR COUNCIL SPECIFIC REQUIREMENTS

**GENERAL NOTES**

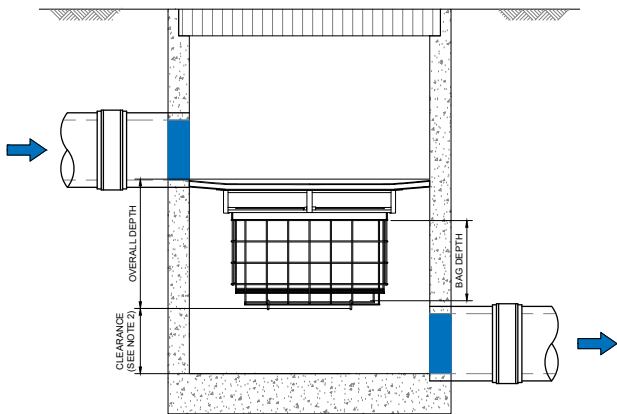
- INLET AND OUTLET PIPES TO BE IN ACCORDANCE WITH APPROVED PLANS.
- A HIGH FLOW BYPASS ARRANGEMENT OR DISSIPATION STRUCTURE MAY BE REQUIRED TO MINIMISE RE-SUSPENSION OF SOLIDS OR ANY SIGNIFICANT INERTIAL FORCES ON THE CARTRIDGES.
- ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
- SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
- THE INVERT LEVEL OF THE INLET PIPE MUST BE GREATER THAN THE RL OF THE FALSE FLOOR WITHIN THE CARTRIDGE CHAMBER.
- CONCRETE STRUCTURE AND ACCESS COVERS DESIGNED AND PROVIDED BY OTHERS. ACCESS COVERS TO BE ASSESSED BY OTHERS ON SITE.
- THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES.
- DRAWINGS NOT TO SCALE.

**INSTALLATION NOTES**

- UNDERDRAIN AND FALSE FLOOR INSTALLED BY OCEAN PROTECT.

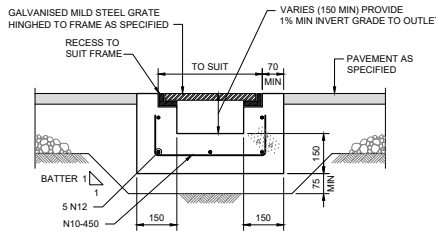
**OCEAN PROTECT**  
STORMFILTER SYSTEM  
DETENTION TANK ARRANGEMENT  
SPECIFICATION DRAWING

PHONE: 1300 354 122    www.oceanprotect.com.au

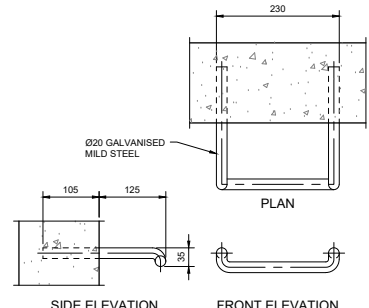


PIPE FLOW CONFIGURATION  
1:10

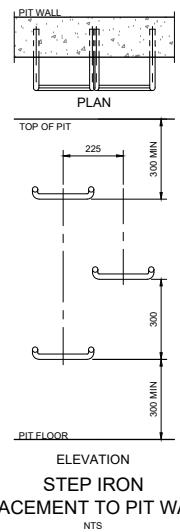
- GENERAL NOTES**
- THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL REQUIREMENTS.
  - CLEARANCE FOR ANY PIT WITHOUT AN INLET PIPE (ONLY USED FOR SURFACE FLOW) CAN BE AS LOW AS 50mm. FOR OTHER PITS, THE RECOMMENDED CLEARANCE SHOULD BE GREATER OR EQUAL TO THE PIPE OBVERT SO AS NOT TO INHIBIT HYDRAULIC CAPACITY.
  - OCEAN PROTECT PROVIDES TWO FILTRATION BAG TYPES:- 200 MICRON BAGS FOR HIGHER WATER QUALITY FILTERING AND A COARSE BAG FOR TARGETING GROSS POLLUTANTS.
  - DRAWINGS NOT TO SCALE.



GRATED DRAIN IN FLEXIBLE PAVEMENT  
1:10



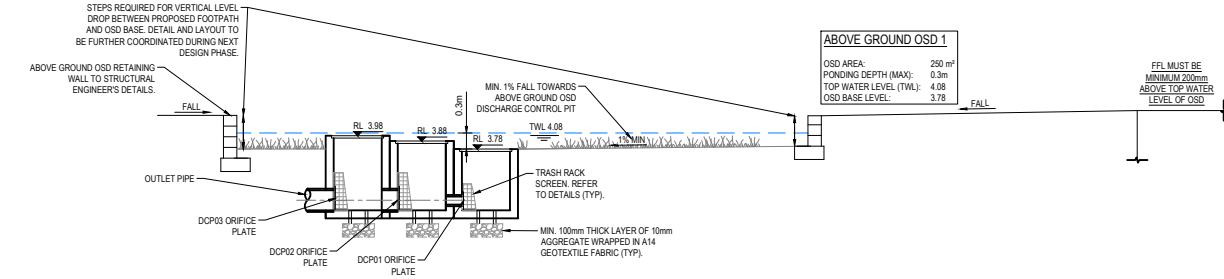
STEP IRON DETAIL  
1:5



ELEVATION  
STEP IRON  
PLACEMENT TO PIT WALL  
NTS

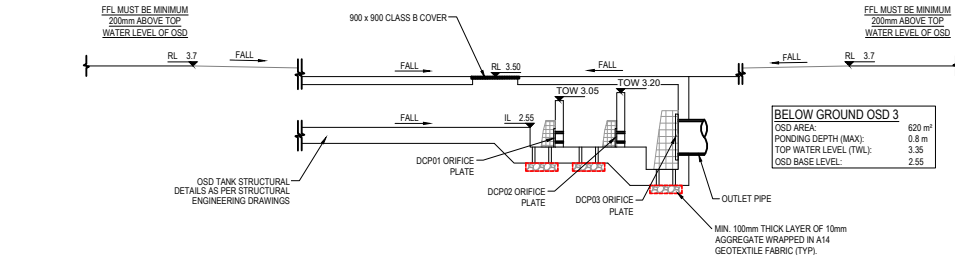
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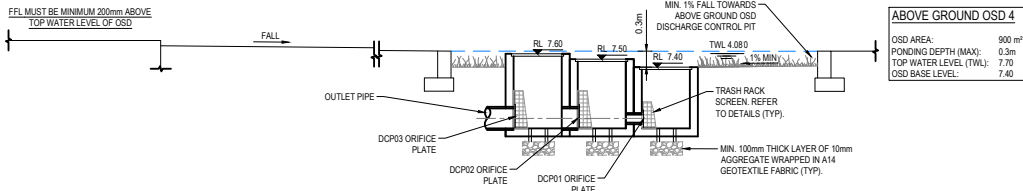
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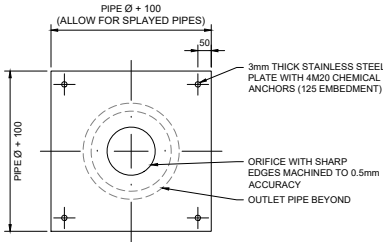
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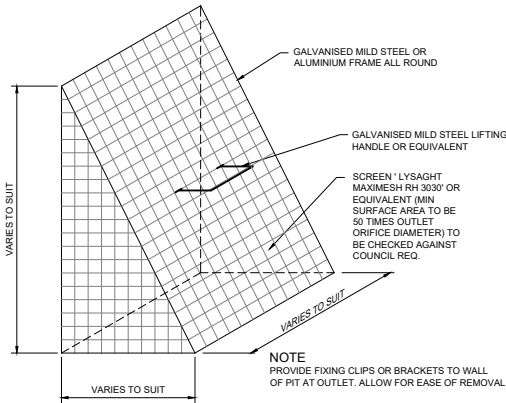
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PROPOSED LANDSCAPE TREES

EXISTING TREES TO BE RETAINED

PROPOSED SURFACE INLET / JUNCTION PIT LIDS

PAVEMENT TYPE 1:

PAVEMENT TYPE 2:

PAVEMENT TYPE 3:

LANDSCAPED AREA

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CLIENT

TITLE

MARRICKVILLE TIMBER YARDS  
MARRICKVILLE, NSW 2204  
PAVEMENT PLAN

DRAWING INFORMATION

Drawn: J. O

Designed: J. LAOKITTICHAJ

Checked: J.H. LEE

Approved: D. FETTEL

Revision: 02

Status: INF

Security: STD

DRAWING NUMBER

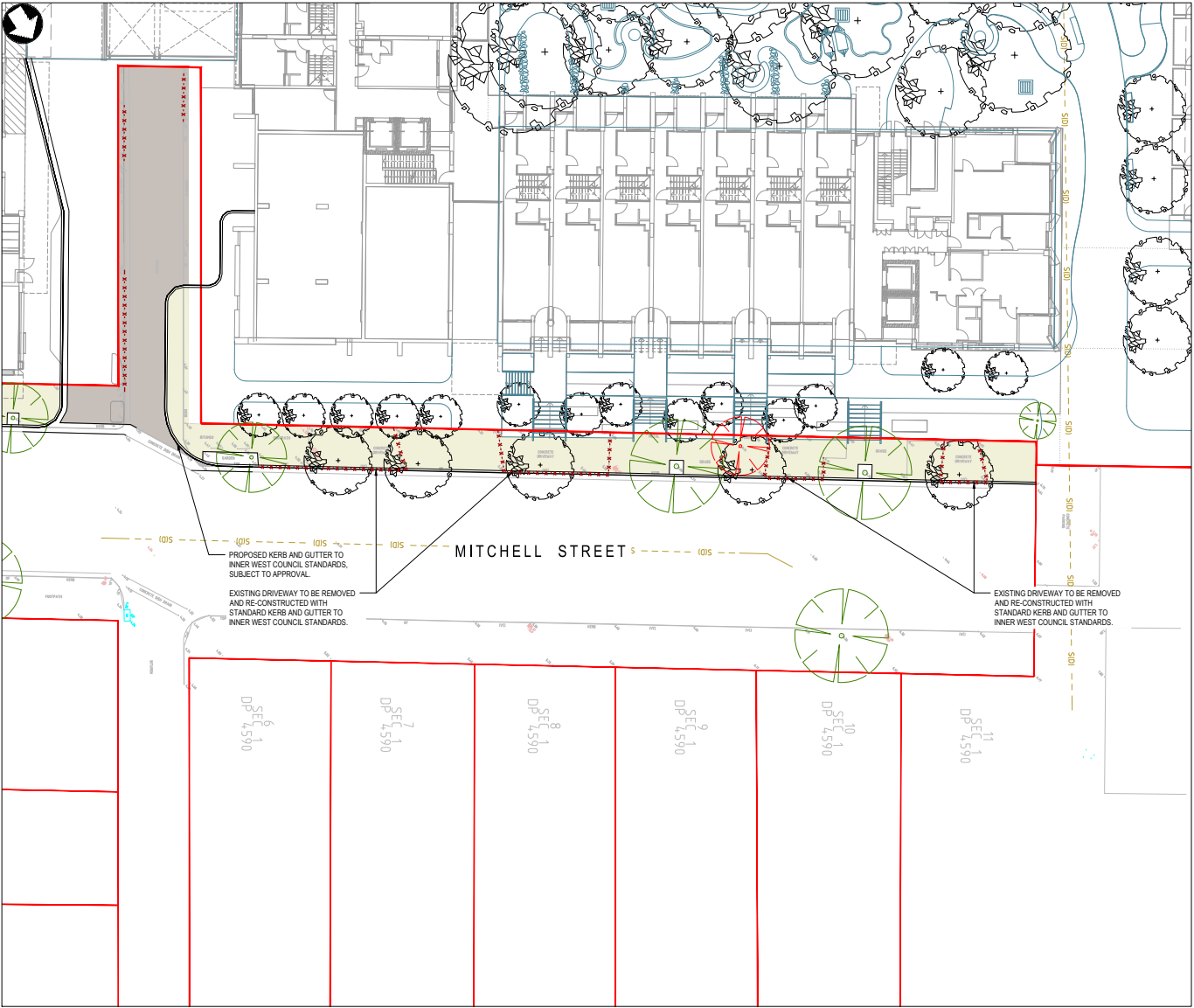
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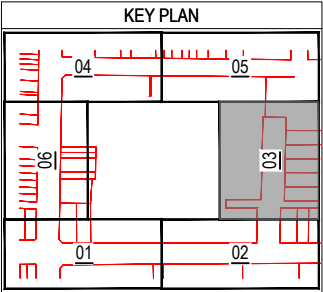
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| LEGEND |                                                          |
|--------|----------------------------------------------------------|
|        | EXTENT OF WORKS                                          |
|        | EXISTING BOUNDARY                                        |
|        | INTERNAL PACKAGE DESIGN                                  |
|        | INTERNAL SURFACE INLET / JUNCTION PIT LIDS               |
|        | PROPOSED SURFACE INLET / JUNCTION PIT LIDS               |
|        | EXISTING DRAINAGE PITS                                   |
|        | EXISTING SERVICE PITS                                    |
|        | PROPOSED TREES (REFER TO LANDSCAPE PLANS FOR DETAILS)    |
|        | EXISTING TREES TO BE RETAINED                            |
|        | EXISTING TREES TO BE REMOVED                             |
|        | PROPOSED DRIVEWAY                                        |
|        | FOOTPATH                                                 |
|        | LANDSCAPE/TURF AREA                                      |
|        | ROADWAY PAVEMENT                                         |
|        | EXISTING VEHICLE CROSSING, KERB RAMP, KERB TO BE REMOVED |



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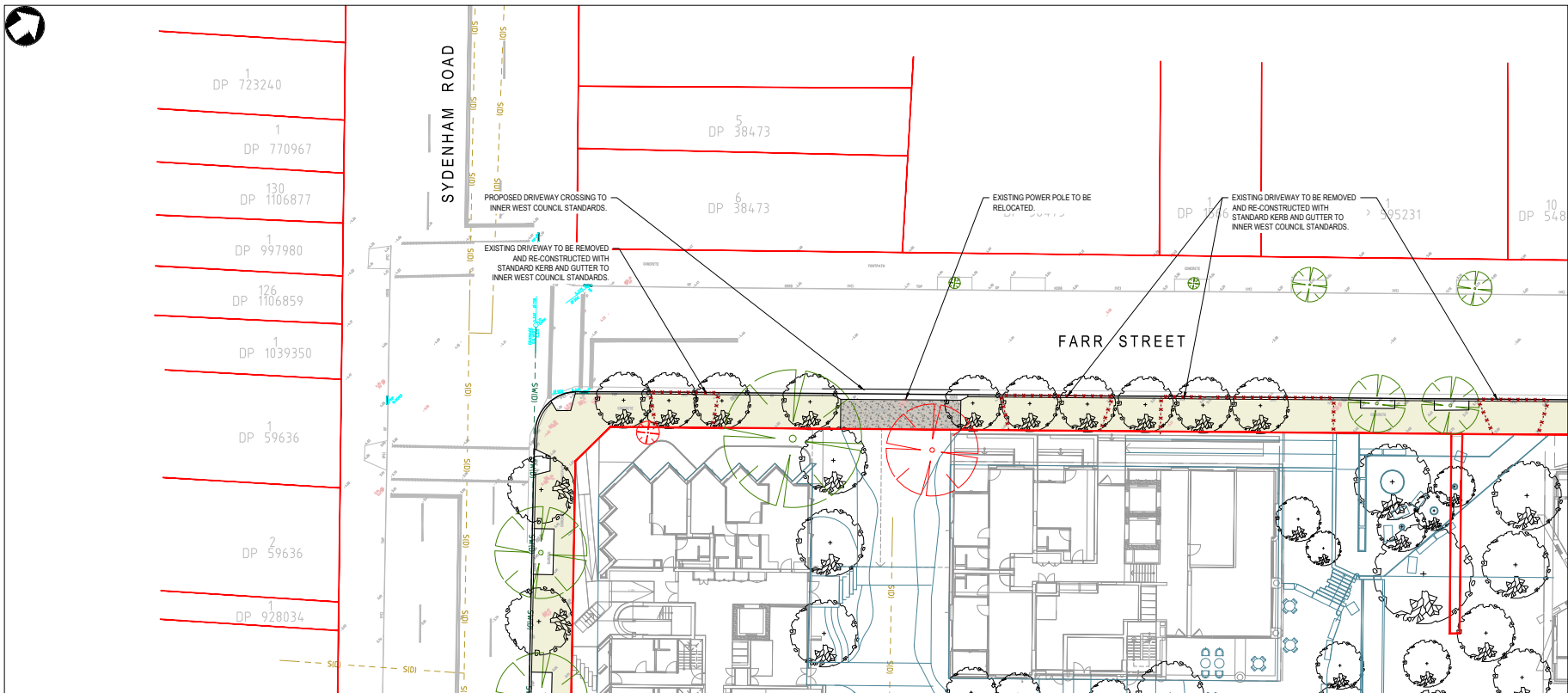
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| <div><div>M</div><div>M</div><div>MOTT<br/>MACDONALD</div></div> | Level 10, 383 Kent Street<br>Sydney, NSW 2000<br>Australia<br>NSW 1230, Australia<br>PO Box Q1678, QVB Sydney<br>T +61 (0)2 9098 6800<br>W www.mottmac.com |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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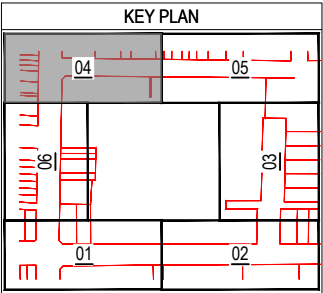
ISSUED BY: J. O





## LEGEND

|                                                                                     |                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|
|    | EXTENT OF WORKS                                             |
|   | EXISTING BOUNDARY                                           |
| INTERNAL PACKAGE DESIGN                                                             |                                                             |
|  | INTERNAL SURFACE INLET / JUNCTION PIT LIDS                  |
|  | PROPOSED SURFACE INLET / JUNCTION PIT LIDS                  |
|  | EXISTING DRAINAGE PITS                                      |
|  | EXISTING SERVICE PITS                                       |
|  | PROPOSED TREES<br>(REFER TO LANDSCAPE PLANS FOR DETAILS)    |
|  | EXISTING TREES TO BE RETAINED                               |
|  | EXISTING TREES TO BE REMOVED                                |
|  | PROPOSED DRIVEWAY                                           |
|  | FOOTPATH                                                    |
|  | LANDSCAPE/TURF AREA                                         |
|  | ROADWAY PAVEMENT                                            |
|  | EXISTING VEHICLE CROSSING, KERB RAIP,<br>KERB TO BE REMOVED |



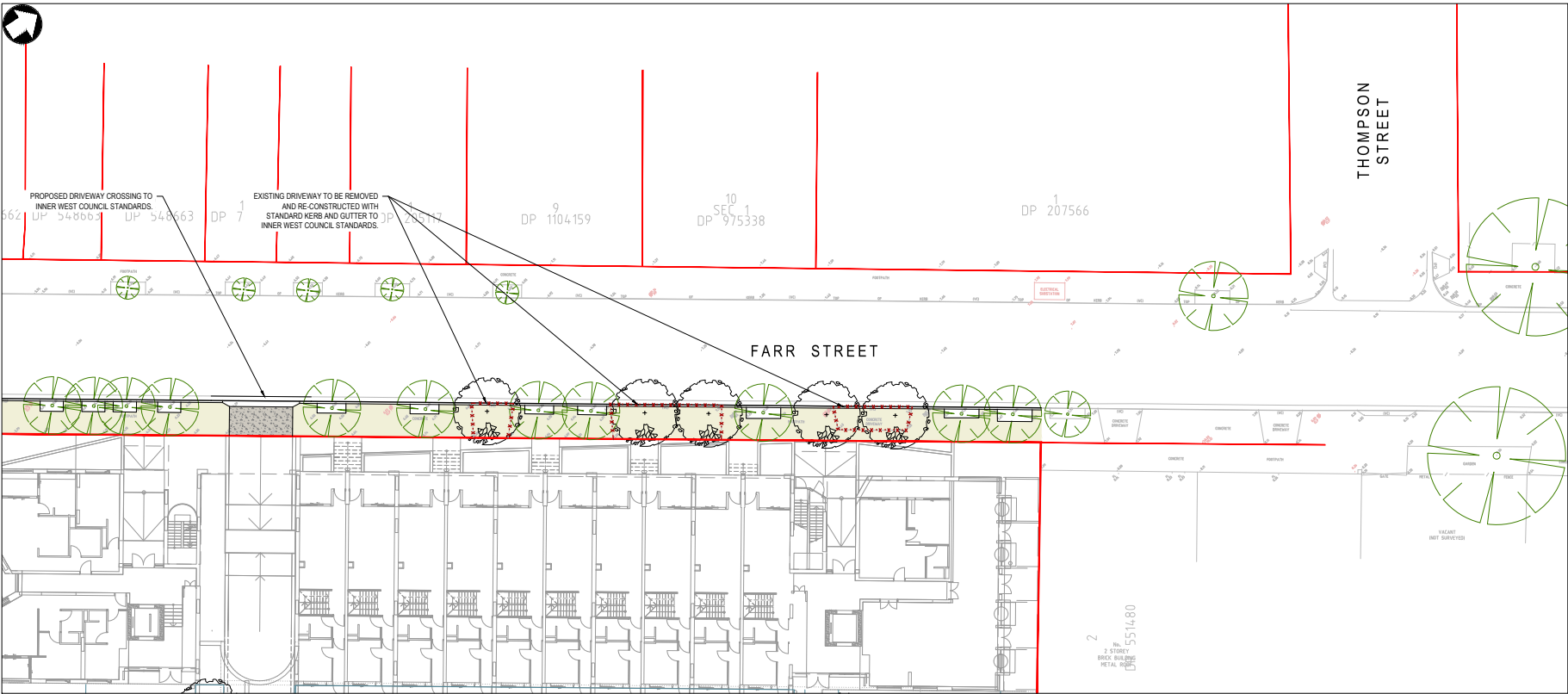
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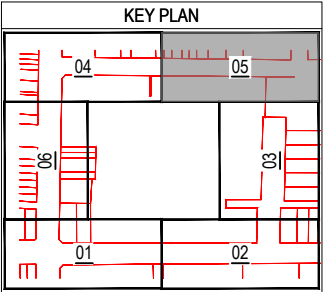
|                                                                                       |                                                                                                                                                            |                                                                                                                                                                                         |                |          |                |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------------|-------|-------|---|---|----------------------------------------------------------------------------------------------------|----------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|---------------------------------------------------------------------------------------|----------------------------------------------|
|     | Level 10, 383 Kent Street<br>Sydney, NSW 2000<br>Australia<br>NSW 1230, Australia<br>PO Box Q1678, QVB Sydney<br>T +61 (0)2 9058 6800<br>W www.mottmac.com | <table border="1"> <tr> <td>02</td> <td>17.12.24</td> <td>ISSUE FOR SSDA</td> <td>JHL</td> <td>DF</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> | 02             | 17.12.24 | ISSUE FOR SSDA | JHL   | DF    | - | - | -                                                                                                  | -              | -                          | <table border="1"> <tr> <td>SCALE</td> <td>  </td> </tr> </table> | SCALE |  | CLIENT | <table border="1"> <tr> <td>TITLE</td> <td> <b>MARRICKVILLE TIMBER YARDS</b><br/> <b>MARRICKVILLE, NSW 2204</b><br/> <b>SITWORKS PLAN - SHEET 04</b> </td> </tr> </table> | TITLE | <b>MARRICKVILLE TIMBER YARDS</b><br><b>MARRICKVILLE, NSW 2204</b><br><b>SITWORKS PLAN - SHEET 04</b> | <table border="1"> <tr> <td colspan="2">DRAWING INFORMATION</td> </tr> <tr> <td>                 Drawn: J. O<br/>                 Designed: J. LAOKITTICHAJ<br/>                 Checked: J.H. LEE<br/>                 Approved: D. FETTELL             </td> <td>                 Revision: 02<br/>                 Status: INF<br/>                 Security: STD             </td> </tr> </table> | DRAWING INFORMATION |  | Drawn: J. O<br>Designed: J. LAOKITTICHAJ<br>Checked: J.H. LEE<br>Approved: D. FETTELL | Revision: 02<br>Status: INF<br>Security: STD |
|                                                                                       | 02                                                                                                                                                         | 17.12.24                                                                                                                                                                                | ISSUE FOR SSDA | JHL      | DF             |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
|                                                                                       | -                                                                                                                                                          | -                                                                                                                                                                                       | -              | -        | -              |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
| SCALE                                                                                 |                                                                        |                                                                                                                                                                                         |                |          |                |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
| TITLE                                                                                 | <b>MARRICKVILLE TIMBER YARDS</b><br><b>MARRICKVILLE, NSW 2204</b><br><b>SITWORKS PLAN - SHEET 04</b>                                                       |                                                                                                                                                                                         |                |          |                |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
| DRAWING INFORMATION                                                                   |                                                                                                                                                            |                                                                                                                                                                                         |                |          |                |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
| Drawn: J. O<br>Designed: J. LAOKITTICHAJ<br>Checked: J.H. LEE<br>Approved: D. FETTELL | Revision: 02<br>Status: INF<br>Security: STD                                                                                                               |                                                                                                                                                                                         |                |          |                |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
|                                                                                       |                                                                                                                                                            | <table border="1"> <tr> <td>Rev</td> <td>Date</td> <td>Description</td> <td>Chk'd</td> <td>App'd</td> </tr> </table>                                                                    | Rev            | Date     | Description    | Chk'd | App'd |   |   | <table border="1"> <tr> <td>DRAWING NUMBER</td> <td>104007-MMD-00-XX-DR-C-0604</td> </tr> </table> | DRAWING NUMBER | 104007-MMD-00-XX-DR-C-0604 |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
| Rev                                                                                   | Date                                                                                                                                                       | Description                                                                                                                                                                             | Chk'd          | App'd    |                |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
| DRAWING NUMBER                                                                        | 104007-MMD-00-XX-DR-C-0604                                                                                                                                 |                                                                                                                                                                                         |                |          |                |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |
|                                                                                       |                                                                                                                                                            |                                                                                                                                                                                         |                |          |                |       |       |   |   |                                                                                                    |                |                            |                                                                                                                                                       |       |                                                                                      |        |                                                                                                                                                                           |       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |                                                                                       |                                              |

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ISO A1 594mm x 841mm



| LEGEND |                                                          |
|--------|----------------------------------------------------------|
|        | EXTENT OF WORKS                                          |
|        | EXISTING BOUNDARY                                        |
|        | INTERNAL PACKAGE DESIGN                                  |
|        | INTERNAL SURFACE INLET / JUNCTION PIT LIDS               |
|        | PROPOSED SURFACE INLET / JUNCTION PIT LIDS               |
|        | EXISTING DRAINAGE PITS                                   |
|        | EXISTING SERVICE PITS                                    |
|        | PROPOSED TREES (REFER TO LANDSCAPE PLANS FOR DETAILS)    |
|        | EXISTING TREES TO BE RETAINED                            |
|        | EXISTING TREES TO BE REMOVED                             |
|        | PROPOSED DRIVEWAY                                        |
|        | FOOTPATH                                                 |
|        | LANDSCAPE/TURF AREA                                      |
|        | ROADWAY PAVEMENT                                         |
|        | EXISTING VEHICLE CROSSING, KERB RAMP, KERB TO BE REMOVED |



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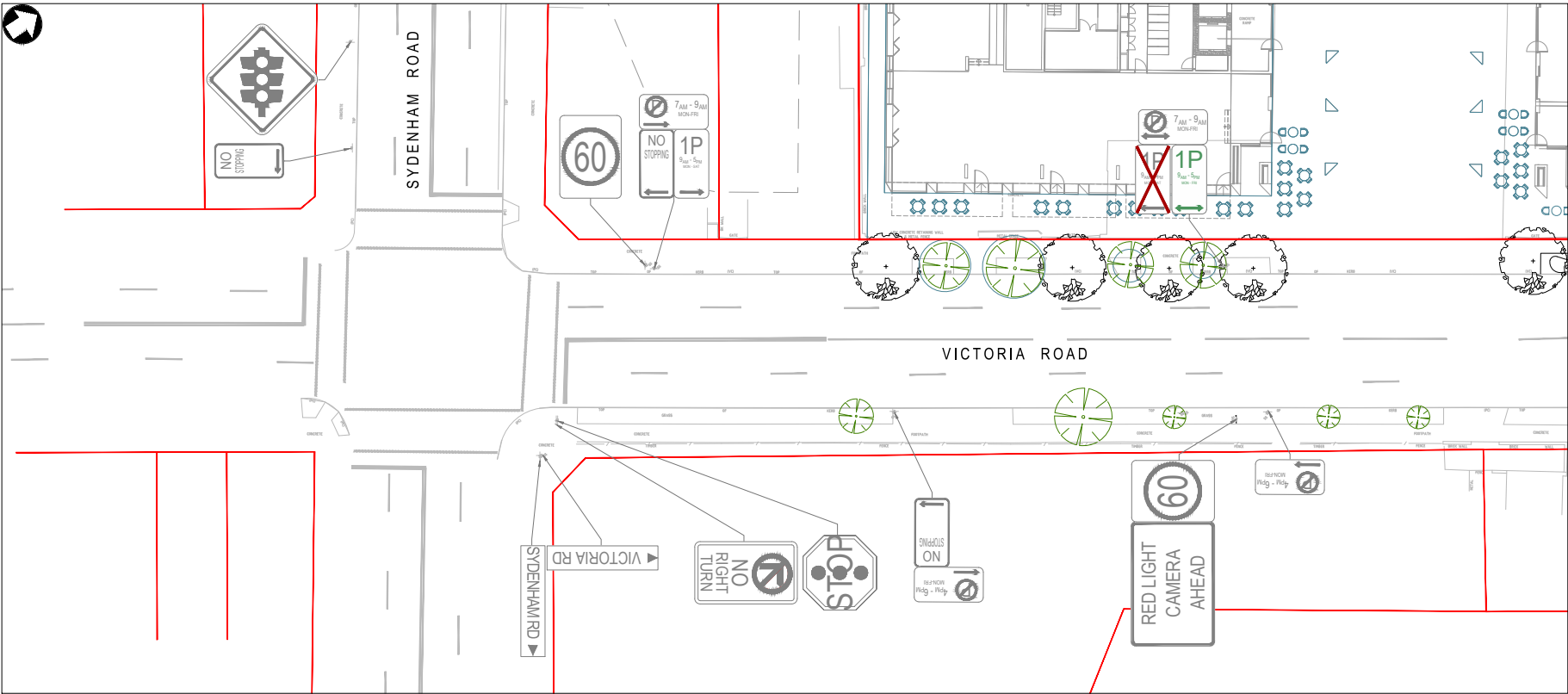
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|  |                                                                                                                                                            |                                               |                             |        |                                                                                           |                                                                                                                                       |                                              |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------|--------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|  | Level 10, 383 Kent Street<br>Sydney, NSW 2000<br>Australia<br>NSW 1230, Australia<br>PO Box Q1678, QVB Sydney<br>T +61 (0)2 9096 6800<br>W www.mottmac.com | 02<br>17.12.24<br>ISSUE FOR SSDA<br>JHL<br>DF | SCALE<br>1:200<br>0 10m 20m | CLIENT | TITLE<br>MARRICKVILLE TIMBER YARDS<br>MARRICKVILLE, NSW 2204<br>SITEWORKS PLAN - SHEET 05 | DRAWING INFORMATION                                                                                                                   |                                              |
|  |                                                                                                                                                            |                                               |                             |        |                                                                                           | Drawn: J. O<br>Designed: J. LAOKITTICHAJ<br>Checked: J.H. LEE<br>Approved: D. FETTELL<br>DRAWING NUMBER<br>104007-MMD-00-XX-DR-C-0605 | Revision: 02<br>Status: INF<br>Security: STD |

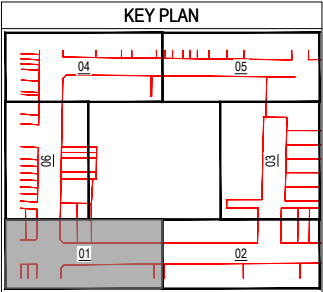
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104007-MMD-00-XX-DR-C-0605





| LEGEND |                                                       |
|--------|-------------------------------------------------------|
|        | EXISTING SIGNS (TO BE RETAINED)                       |
|        | EXISTING SIGNS (TO BE REMOVED)                        |
|        | PROPOSED SIGNS                                        |
|        | PROPOSED SIGN POST                                    |
|        | EXISTING SIGN POST                                    |
|        | RELOCATE EXISTING SIGN POST                           |
|        | REMOVE EXISTING LINE MARKING                          |
|        | PROPOSED TREES (REFER TO LANDSCAPE PLANS FOR DETAILS) |
|        | EXISTING TREES TO BE RETAINED                         |
|        | EXISTING TREES TO BE REMOVED                          |



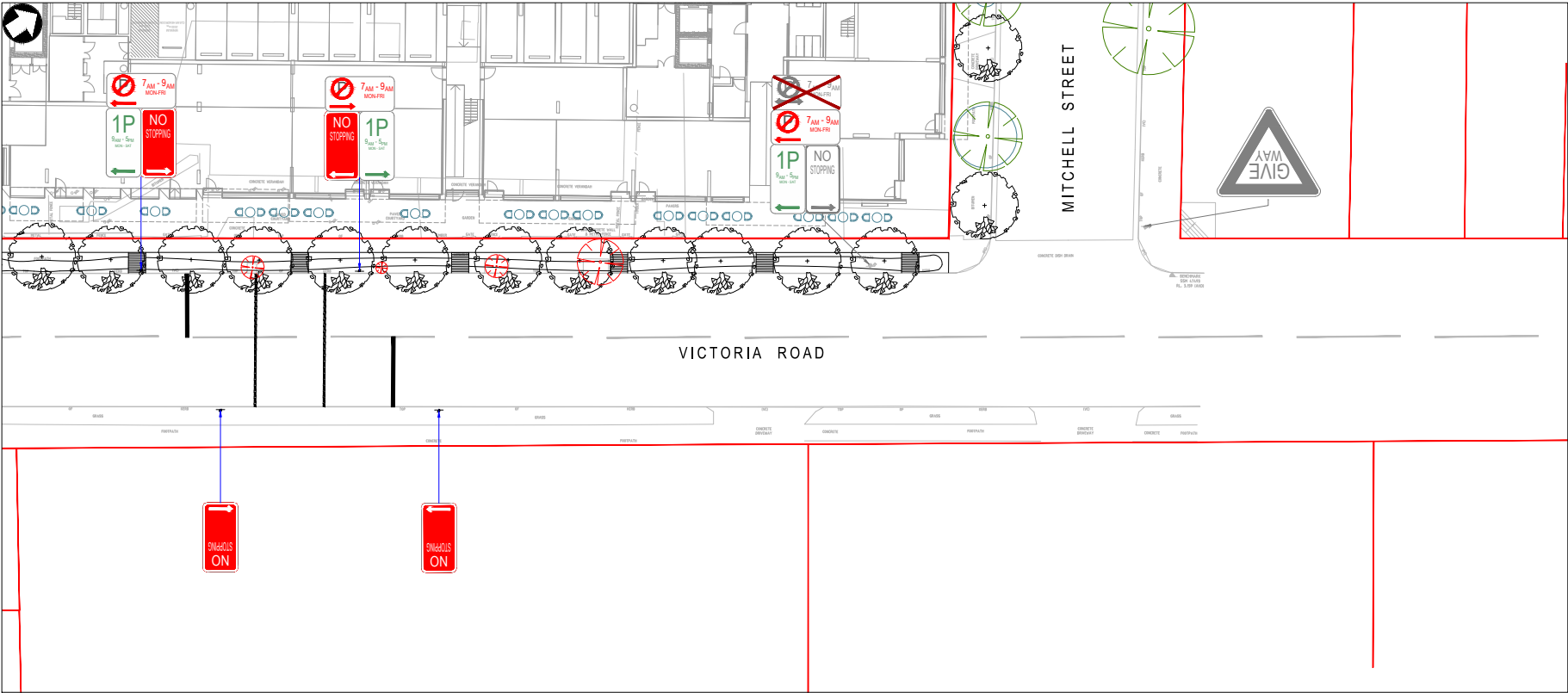
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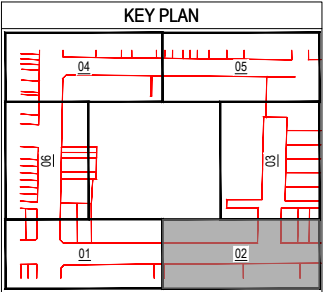
|  |                                                                                                                                                            |                            |        |                             |        |                                                                                                            |                                                                                                                                      |                                              |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------|-----------------------------|--------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|  | Level 10, 383 Kent Street<br>Sydney, NSW 2000<br>Australia<br>NSW 1230, Australia<br>PO Box Q1678, QVB Sydney<br>T +61 (0)2 9098 6800<br>W www.mottmac.com | 02 17.12.24 ISSUE FOR SSDA | JHL DF | SCALE<br>1:200<br>0 10m 20m | CLIENT | TITLE<br>MARRICKVILLE TIMBER YARDS<br>MARRICKVILLE, NSW 2204<br>SIGNAGE AND LINEMARKING<br>PLAN - SHEET 01 | DRAWING INFORMATION                                                                                                                  |                                              |
|  |                                                                                                                                                            |                            |        |                             |        |                                                                                                            | Drawn: J. O<br>Designed: J. LAOKITTICHA<br>Checked: J.H. LEE<br>Approved: D. FETTELL<br>DRAWING NUMBER<br>104007-MMD-00-XX-DR-C-0651 | Revision: 02<br>Status: INF<br>Security: STD |

FILE LOCATION: C:\Users\jlaokittichai\Documents\Projects\2024\104007-MMD-00-XX-DR-C-0651\104007-MMD-00-XX-DR-C-0651.dwg

100 A1 24mm x 34mm



| LEGEND                                                                              |                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|
|   | EXISTING SIGNS (TO BE RETAINED)                          |
|   |                                                          |
|  | EXISTING SIGNS (TO BE REMOVED)                           |
|  |                                                          |
|  | PROPOSED SIGNS                                           |
|  |                                                          |
|  | PROPOSED SIGN POST                                       |
|  | EXISTING SIGN POST                                       |
|  | RELOCATE EXISTING SIGN POST                              |
|  | REMOVE EXISTING LINE MARKING                             |
|  | PROPOSED TREES<br>(REFER TO LANDSCAPE PLANS FOR DETAILS) |
|  | EXISTING TREES TO BE RETAINED                            |
|  | EXISTING TREES TO BE REMOVED                             |



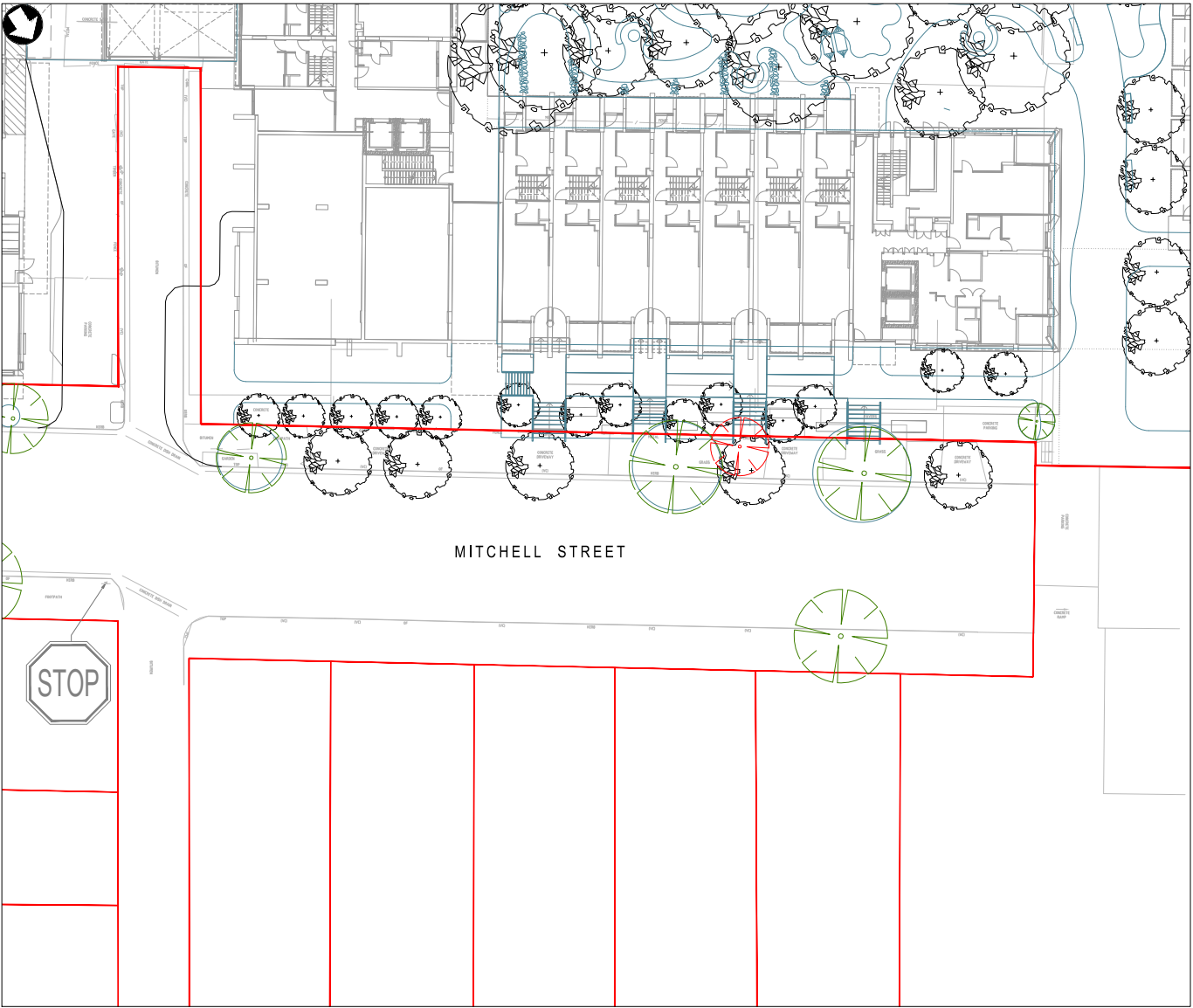
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| <div><div>M</div><div>M</div><div>MOTT<br/>MACDONALD</div></div> | Level 10, 383 Kent Street<br>Sydney, NSW 2000<br>Australia<br>NSW 1230, Australia<br>PO Box Q1678, QVB Sydney<br>T +61 (0)2 9098 6800<br>W www.mottmac.com |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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LEGEND

EXISTING SIGNS (TO BE RETAINED)

EXISTING SIGNS (TO BE REMOVED)

PROPOSED SIGNS

PROPOSED SIGN POST

EXISTING SIGN POST

RELOCATE EXISTING SIGN POST

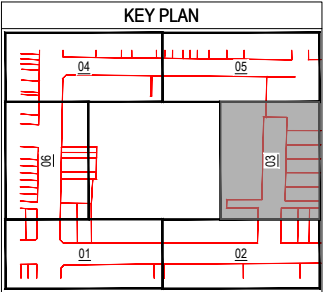
REMOVE EXISTING LINE MARKING

PROPOSED TREES  
(REFER TO LANDSCAPE PLANS FOR DETAILS)

EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED

FOR CONTINUATION REFER BELOW



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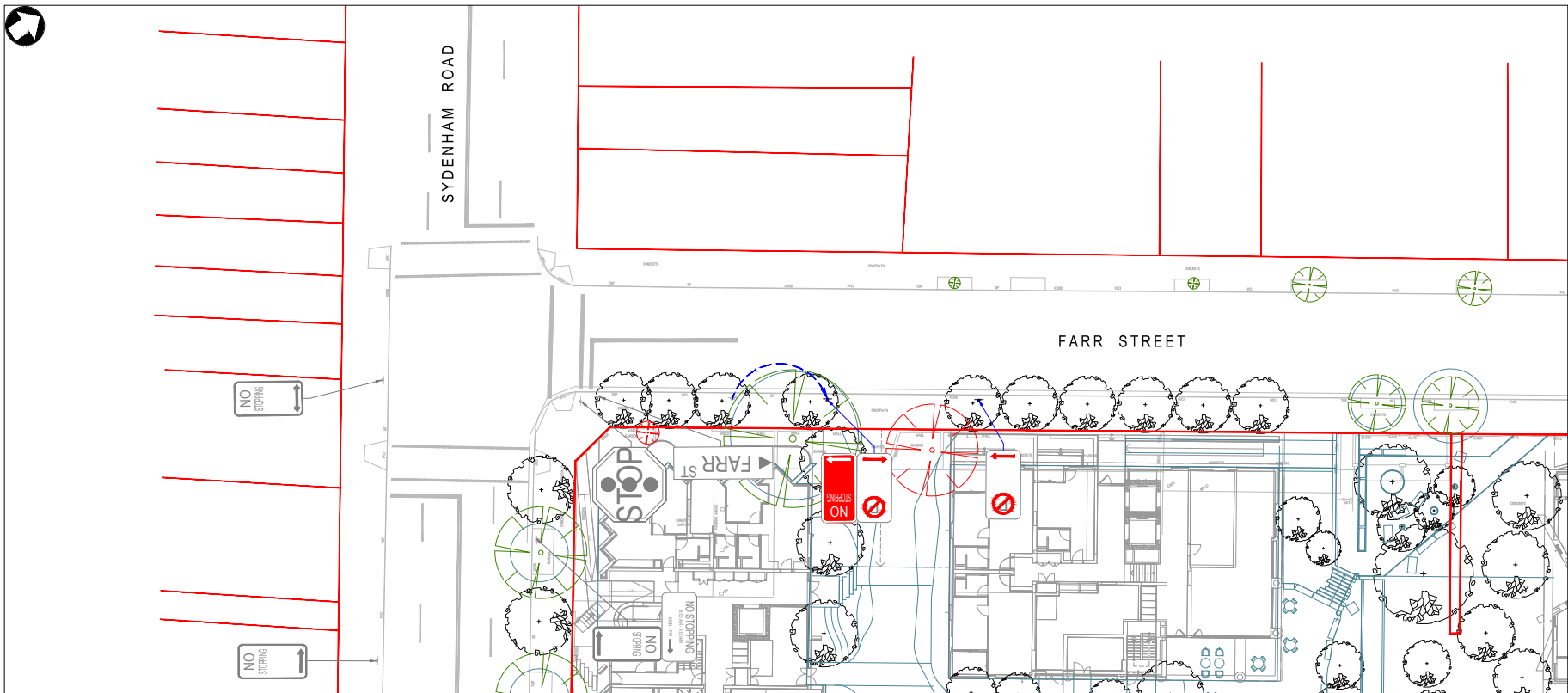
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|                                                                  | Rev                                                                                                                                                        | Date | Description | Chk'd                                                                                                       | App'd |                                                                                                 |        |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |  |  |
|                                                                  |                                                                                                                                                            |      |             |                                                                                                             |       |                                                                                                 |        |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |  |  |

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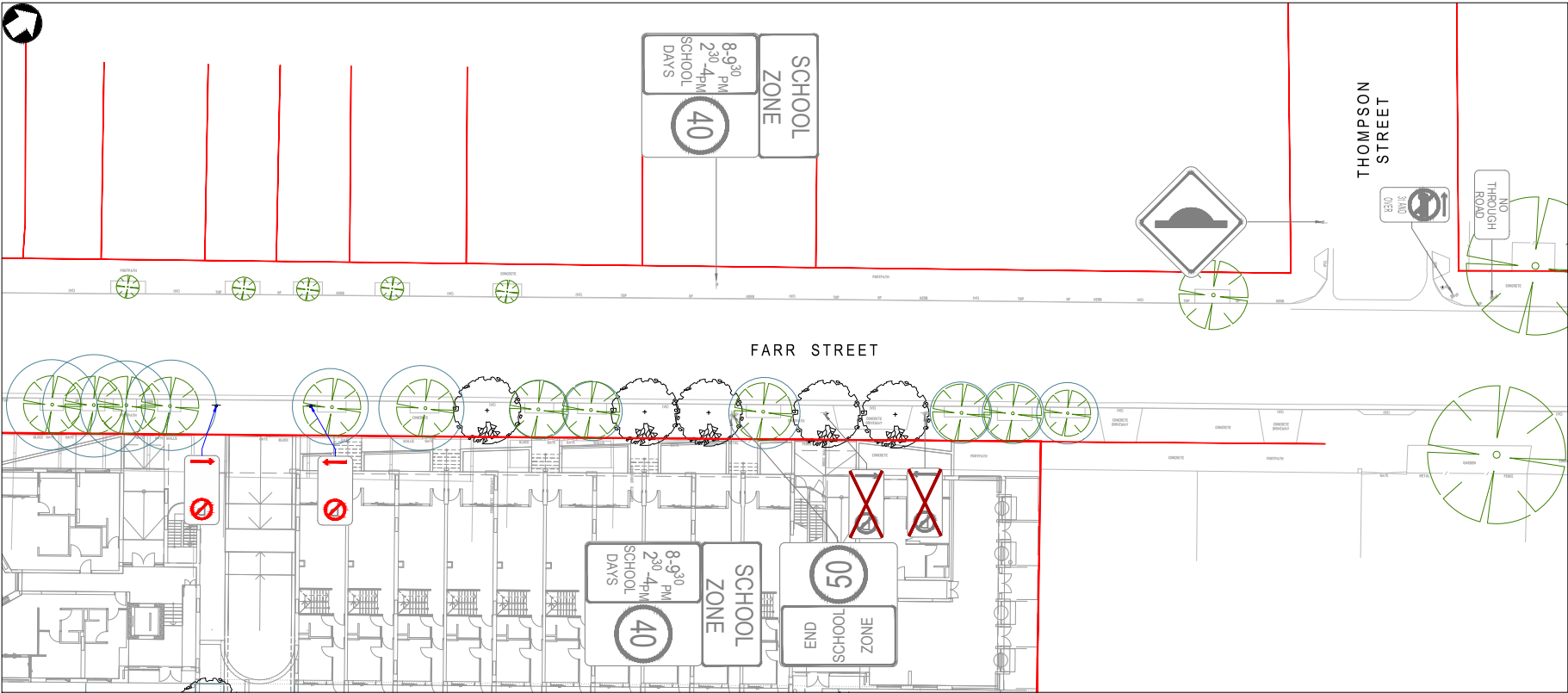


**KEY PLAN**

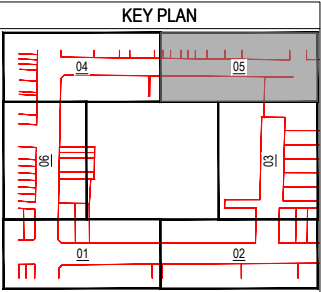
The key plan shows a building layout with six numbered rooms. Room 04 is a shaded rectangular room in the top left. Room 05 is a rectangular room in the top right. Room 06 is a long, narrow room on the left side. Room 01 is a large rectangular room in the bottom left. Room 02 is a large rectangular room in the bottom right. Room 03 is a narrow vertical room on the right side. Red lines indicate the walls and doorways of the rooms.

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| LEGEND |                                                       |
|--------|-------------------------------------------------------|
|        | EXISTING SIGNS (TO BE RETAINED)                       |
|        | EXISTING SIGNS (TO BE REMOVED)                        |
|        | PROPOSED SIGNS                                        |
|        | PROPOSED SIGN POST                                    |
|        | EXISTING SIGN POST                                    |
|        | RELOCATE EXISTING SIGN POST                           |
|        | REMOVE EXISTING LINE MARKING                          |
|        | PROPOSED TREES (REFER TO LANDSCAPE PLANS FOR DETAILS) |
|        | EXISTING TREES TO BE RETAINED                         |
|        | EXISTING TREES TO BE REMOVED                          |



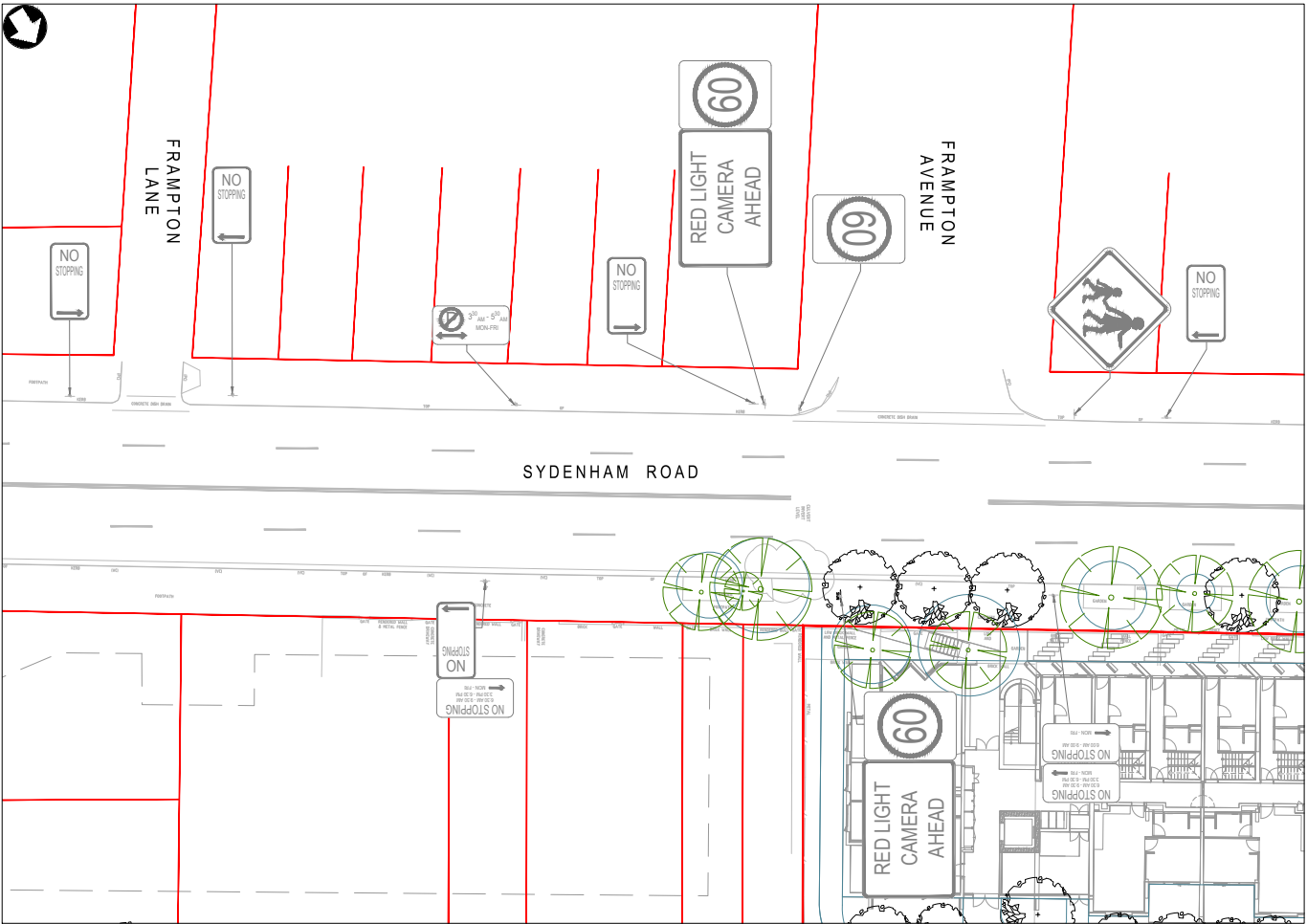
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|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------------|-----|----|-----|------|-------------|-------|-------|-------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|                                                                  | 02                                                                                                                                                         | 17.12.24                                                                                                                                                                             | ISSUE FOR SSDA | JHL      | DF             |     |    |     |      |             |       |       |                                                                                                 |                   |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |
|                                                                  | Rev                                                                                                                                                        | Date                                                                                                                                                                                 | Description    | Chk'd    | App'd          |     |    |     |      |             |       |       |                                                                                                 |                   |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |

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104007-MMD-00-XX-DR-C-0655



LEGEND

EXISTING SIGNS (TO BE RETAINED)

EXISTING SIGNS (TO BE REMOVED)

PROPOSED SIGNS

PROPOSED SIGN POST

EXISTING SIGN POST

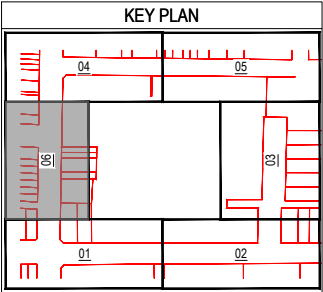
RELOCATE EXISTING SIGN POST

REMOVE EXISTING LINE MARKING

PROPOSED TREES  
(REFER TO LANDSCAPE PLANS FOR DETAILS)

EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED



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0217.12.24

ISSUE FOR SSDA

J.H.L.D.F.

SCALE

1:200

010m20m

CLIENT

TITLE

MARRICKVILLE TIMBER YARDS  
MARRICKVILLE, NSW 2204  
SIGNAGE AND LINEMARKING  
PLAN - SHEET 06

DRAWING INFORMATION

Drawn: J. O

Designed: J. LAOKITTICHAJ

Checked: J.H. LEE

Approved: D. FETTELL

Revision: 02

Status: INF

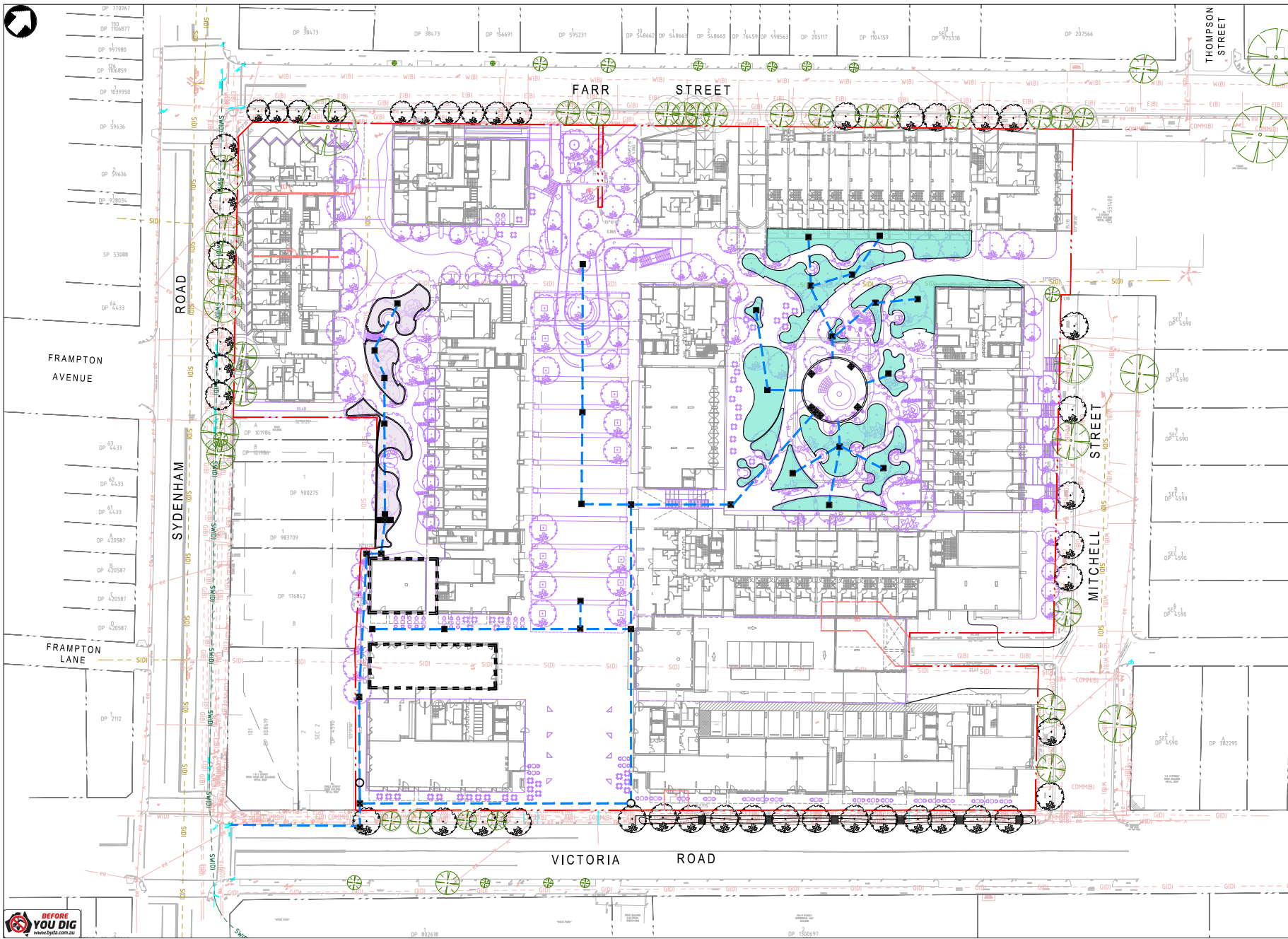
Security: STD

DRAWING NUMBER

104007-MMD-00-XX-DR-C-0656

FILE LOCATION: C:\Users\mottmac\Documents\Projects\104007-MMD-00-XX-DR-C-0656\104007-MMD-00-XX-DR-C-0656.dwg

100% A3 Scale: 1:400mm



| LEGEND |                                                        |
|--------|--------------------------------------------------------|
|        | SITE BOUNDARY                                          |
|        | ADJACENT BOUNDARY                                      |
|        | EASEMENT BOUNDARY                                      |
|        | PROPOSED LANDSCAPE TREES                               |
|        | EXISTING TREES TO BE RETAINED                          |
|        | PROPOSED SURFACE INLET / JUNCTION PIT LIDS             |
|        | PROPOSED DRAINAGE PIPE                                 |
|        | ABOVE GROUND OSD 1                                     |
|        | OSD 2 (ON TOP OF ROOF)                                 |
|        | ABOVE GROUND OSD 3                                     |
|        | ABOVE GROUND OSD 4                                     |
|        | EXISTING STORMWATER LINE (QL-B / DETECTED)             |
|        | EXISTING STORMWATER LINE (QL-D / BYDA)                 |
|        | EXISTING WATER LINE (QL-B / DETECTED)                  |
|        | EXISTING WATER LINE (QL-D / BYDA)                      |
|        | EXISTING SEWER LINE (QL-D / BYDA)                      |
|        | EXISTING TELECOMMUNICATIONS LINE (QL-B / DETECTED)     |
|        | EXISTING TELECOMMUNICATIONS LINE (QL-D / BYDA)         |
|        | EXISTING UNDERGROUND ELECTRICAL LINE (QL-B / DETECTED) |
|        | EXISTING UNDERGROUND ELECTRICAL LINE (QL-D / BYDA)     |
|        | EXISTING OVERHEAD ELECTRICAL                           |
|        | EXISTING GAS LINE (QL-B / DETECTED)                    |
|        | EXISTING GAS LINE (QL-D / BYDA)                        |

| EXISTING SERVICES NOTES |                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                      | EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA MOTT MACDONALD AUSTRALIA PTY LIMITED DOES NOT GUARANTEE THEIR ACCURACY AND IT IS THE CONTRACTORS RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES ON SITE PRIOR TO COMMENCEMENT OF WORKS. SERVICES SERVICING OTHER OPERATIONAL AREAS ARE TO BE RETAINED. |
| 2.                      | CONTRACTOR TO IDENTIFY, MODIFY AND RELOCATE EXISTING SERVICES AS REQUIRED. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT AUTHORITY.                                                                                                                                                                                                       |
| 3.                      | THE CONTRACTOR IS RESPONSIBLE FOR THE SITE SURVEY. IDENTIFICATION, DISCONNECTION, REMOVAL AND MODIFICATION OF EXISTING SERVICES AFFECTED BY THE NEW WORKS. THE CONTRACTOR IS TO VERIFY ON SITE THE EXACT LOCATION AND SUPPLY POINTS BEFORE PROCEEDING WITH THE WORKS.                                                                      |
| 4.                      | SERVICES ON DRAWING ARE DIAGRAMMATIC. DO NOT SCALE FROM DRAWING. LOCATION OF SERVICES TO BE CO-ORDINATED ON SITE.                                                                                                                                                                                                                          |
| 5.                      | ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH SERVICE PROVIDERS REQUIREMENTS                                                                                                                                                                                                                                                             |

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|                                           |                                                                                                                                                                             |                                                                            |                              |                                      |                   |                                                                                                          |                                                                                                     |                                                           |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <div>M<br/>M<br/>MOTT<br/>MACDONALD</div> | <div>Level 10, 383 Kent Street<br/>Sydney, NSW 2000<br/>Australia<br/>NSW 1230, Australia<br/>PO Box Q1678, QVB Sydney<br/>T +61 (0)2 9098 6800<br/>W www.mottmac.com</div> | <div>02 17.12.24 ISSUE FOR SSDA<br/>01 08.11.24 ISSUE FOR DRAFT SSDA</div> | <div>JHL DF<br/>JHL DF</div> | <div>SCALE<br/>1:400 0 20m 40m</div> | <div>CLIENT</div> | <div>TITLE<br/>MARRICKVILLE TIMBER YARDS<br/>MARRICKVILLE, NSW 2204<br/>COMBINED SERVICES<br/>PLAN</div> | <div>DRAWING INFORMATION</div>                                                                      |                                                           |
|                                           |                                                                                                                                                                             |                                                                            |                              |                                      |                   |                                                                                                          | <div>Drawn: J. O<br/>Designed: J. LAOKITTICHAJ<br/>Checked: J.H. LEE<br/>Approved: D. FETTELL</div> | <div>Revision: 02<br/>Status: INF<br/>Security: STD</div> |
|                                           |                                                                                                                                                                             |                                                                            |                              |                                      |                   |                                                                                                          | <div>DRAWING NUMBER<br/>104007-MMD-00-XX-DR-C-0801</div>                                            |                                                           |

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ISSUED BY: J. O  
DATE: 17.12.24



| LEGEND |                                                    |
|--------|----------------------------------------------------|
|        | TEMPORARY CONSTRUCTION SITE ACCESS WITH SHAKE GRID |
|        | DROP INLET SEDIMENT TRAP                           |
|        | SEDIMENT TRAP - SAND BAGS                          |
|        | SEDIMENT FENCE                                     |
|        | TEMPORARY BARRIER FENCE                            |
|        | INDICATIVE LOCATION OF STOCKPILE                   |

| SOIL AND WATER MANAGEMENT NOTES |                                                                                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                              | STORMWATER BASINS TO BE USED AS TEMPORARY SEDIMENT BASIN DURING EARTHWORKS. ONCE STABILISED, BASIN IS TO BE CLEANED AND OUTLET PIT CONSTRUCTED (TYP.). |
| 2.                              | SEDIMENT BASINS TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 'BLUE BOOK'. VOLUMES TO BE CONFIRMED DURING DETAILED DESIGN STAGE (TYP.). |
| 3.                              | CONSTRUCT TEMPORARY SEDIMENT TRAP FOR DROP INLETS (GEOTEXTILE FILTER FABRIC, REFER DETAIL ON DRAWING 2005 (TYP.)).                                     |

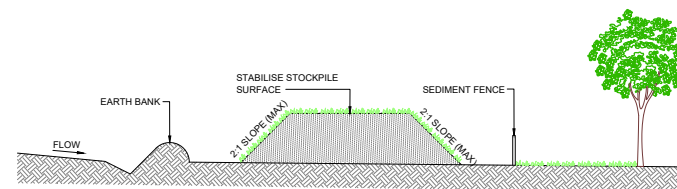
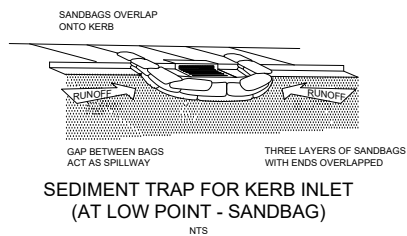
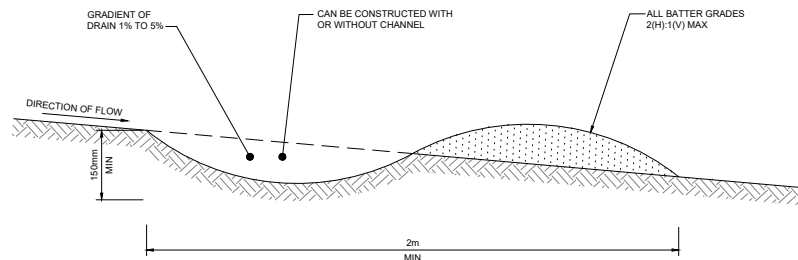
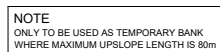
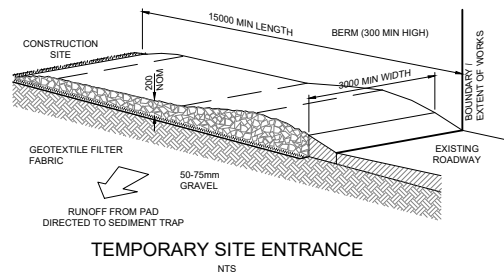
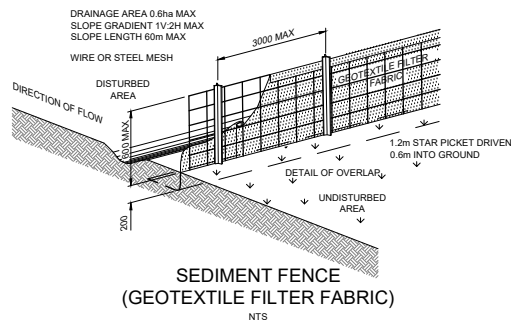
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|  |                                                                                                                                                            |                  |             |                             |        |                                                                                                      |                                                                                       |                                              |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|-----------------------------|--------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------|
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|  | 02 17.12.24 ISSUE FOR SSDA<br>01 08.11.24 ISSUE FOR DRAFT SSDA                                                                                             | JHL DF<br>JHL DF | Chr'd App'd |                             |        |                                                                                                      | Drawn: J. O<br>Designed: J. LAOKITTICHAJ<br>Checked: J.H. LEE<br>Approved: D. FETTELL | Revision: 02<br>Status: INF<br>Security: STD |

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104007-MMD-00-XX-DR-C-0951





| CONSTRUCTION NOTES |                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------|
| 1.                 | BUILD WITH GRADIENTS BETWEEN 1% AND 5%.                                                             |
| 2.                 | AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.                                     |
| 3.                 | ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW. |
| 4.                 | BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT 'V' SHAPED.            |
| 5.                 | ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.                                         |
| 6.                 | COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION                        |

### CONSTRUCTION NOTES

1. PLACE STOCKPILES AS DIRECTED BY THE SUPERINTENDENT.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONTROL EARTHWORKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND INSTALL SEDIMENT FENCES 1m TO 2m DOWNSLOPE CONSISTENT WITH MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION, 'ALSO KNOWN AS THE BLUE BOOK'.



