



DRAFT Construction Management Plan
Greenwich Hospital Redevelopment

December 2022

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PROJECT MANAGER	SITE MANAGER	EHS MANAGER / COORDINATOR
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1 DOCUMENT CONTROL

All changes made to the Construction Management Plan are recorded in the amendment table below. The version number and date of revision for the current document revision are shown in the page 01-footer of the document.

1.1 Revision History

Revision	Date	Description of changes	Prepared by	Approved by
01	30/3/2022	Issue for review	PA	
02	11/4/2022	Show hospital traffic	PA	
03	14/04/2022	Amend Staging plans	PA	
04	05/05/2022	Amend - EU comments	PA	
05	09/06/2022	Add Staging Duration	PA	
06	14/12/2022	Staging Amended	PAnd	

1.2 Management reviews

Review date	Details	Reviewed by

1.3 Controlled copies

Name	Position	Date	Revision

2 PROJECT UNDERSTANDING

2.1 Proposed Project

2.2 The Site

This Construction Management Plan is submitted to the Department of Planning, Industry and Environment (DPIE) in support of a State Significant Development Application (SSD-13619238) for the redevelopment of Greenwich Hospital into an integrated hospital and seniors living facility on land identified as 97-115 River Road, Greenwich (the site). The extent of the site is shown below.



Figure 1 Proposed Site View

The subject proposal is for the detailed design and construction of the facility following its concept approval under SSD-8699. Specifically, SSD-13619238 seeks approval for the following:

- Demolition of the existing hospital building and associated facilities at the site;
- Construction of a new hospital facility and integrated healthcare uses and services, including:
 - A new 7 storey main hospital building.
 - Two new 5-6 storey serviced self-care housing buildings (serviced seniors living);
 - A new 2-3 storey respite care building.

- Construction of associated site facilities and services, including pedestrian and vehicular access and basement parking.
- Site landscaping and infrastructure works; and
- Preservation of Pallister House which will continue to host dementia care and administrative functions

2.3 Project Challenges

Our construction methodology has been developed with the mitigation of project challenges in mind, to maintain ongoing safety and managing day to day operations of the project, minimising disruption to the existing hospital operations, the public and site construction personnel.

From our review of the documentation and completed site visits we have identified the following key project challenges.

2.3.1 Demolition and Excavation

The project is divided into 4 stages as follows:

- Stage 1 – Early works and external works
- Stage 2 – New Hospital building
- Stage 3 – Two new Seniors Living buildings
- Stage 4 – New Respite Care building

To facilitate the construction of Stage 2 (Main Hospital) the existing structures shown in red in the image below will need to be demolished first and will take up to 6 weeks to complete the scope.

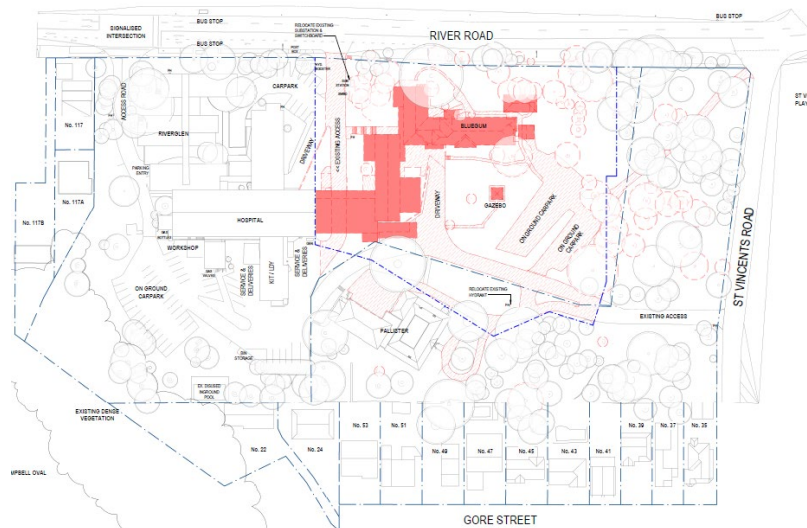


Figure 2 Demolition for Stage 2

Once the main hospital is complete (Stage 2), the remaining existing structures will need to be demolished in a live hospital environment to facilitate the construction of Seniors Living South and North (Stage 3) and the construction of the respite care building (Stage 4).

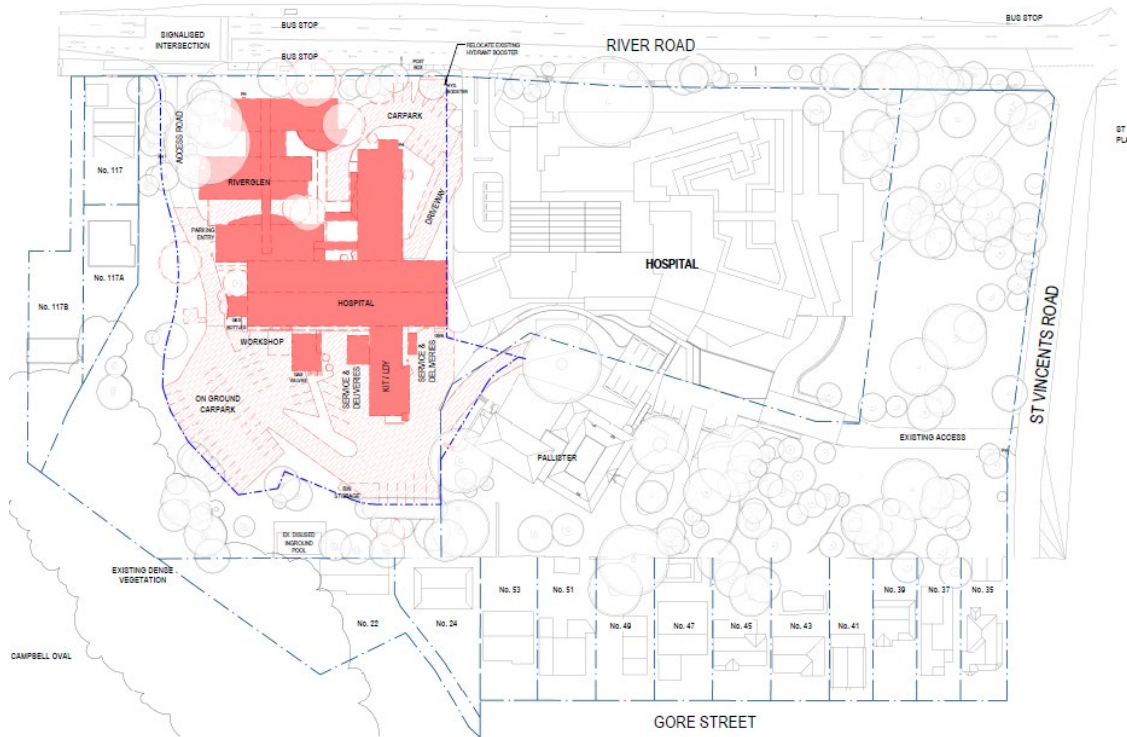


Figure 3 Demolition for Stage 3

Prior to demolition and excavation commencing, detailed dilapidation reports will be compiled on the neighbouring residences to the west. Consideration may also be given to compiling a similar dilapidation report on Pallister House. The dilapidation survey reports can be used as a benchmark against which to set vibration limits for rock excavation, and for assessing possible future claims for damage arising from the works. As dilapidation survey reports are relied upon for the assessment of potential future damage claims, they must be carried out thoroughly with all defects rigorously described (i.e. defect type, defect location, crack width, crack length etc) and defects photographed where practical.

Demolition and excavation will need to be carefully sequenced and completed in order to maintain the stability of the adjacent sections of existing buildings and structures within the site that will remain during the staged construction, the neighbouring buildings and structures and the fill batter slope over the western end of the site. This work will need to be completed using suitably experienced contractors. In this regard, we note that the excavations may extend below the base of adjacent footings supporting existing buildings and structures. We assume that the buildings and structures have generally been founded on bedrock. However, this must be confirmed during demolition by excavating test pits in order to expose the existing footings and confirm the foundation materials.

Based on inspection of these test pits by the structural and geotechnical engineers, the need and extent of underpinning, propping and/or wall strengthening measures can then be determined and detailed. Any

underpins that will be supporting the soil profile will need to be designed to resist lateral loading. During construction, plant, equipment or stockpiles of material must not operate and/or be located west of an exclusion zone defined by a theoretical failure plane line projected up from the toe of the fill batter slope at an angle no steeper than 1V in 2H. On the basis of the investigation results, following demolition, the proposed excavations will encounter the soil profile and penetrate weathered sandstone bedrock over the central and eastern portions of the proposed basement.

Due to the presence of poorly compacted fill, which may extend below Pallister House, its not recommend the use of rock breakers during demolition or rock excavation in close proximity to the building due to the potential for transmission of vibrations which could cause damage, unless the building is founded on, or underpinned to, bedrock. Based on the results of the test pit inspections described above, underpinning of the building may be required. The excavation of the soil profile and extremely weathered bedrock to be readily completed using bucket attachments to tracked excavators. We expect that excavation of low and higher strength bedrock will require small to medium size rock breakers and ripping attachments to the tracked excavators and possibly dozers with ripping tyne attachments. Alternative excavation techniques to reduce vibrations and therefore reduce vibration monitoring could include using a rock grinder on the excavator, or a large excavator mounted rock saw to grid saw the bedrock into blocks that could then be removed using a ripping tyne attachment to the excavator, or locally using drill and split techniques. We also note that 'dropping' of large sections of existing structure during demolition should also be avoided to prevent the generation of potentially damaging vibrations. (Content provided by JKGeotechnics 32507R2rpt).

2.3.2 Vibration & Ground Surface Movement Risks

There is a possibility that vibrations from excavation equipment and other site activities may cause damage to adjoining structures within or neighbouring the site if these adjoining structures are not founded on bedrock. The preference is to underpin any adjacent structures to rock. Where adjoining structures are founded on and/or underpinned to rock, the limit for vibrations provided below should be assessed by the structural engineer following review of the dilapidation reports.

Where rock breakers are used during demolition and to excavate bedrock, continuous quantitative vibration monitoring of the neighbouring buildings and structures to the west will be required, to confirm that the peak vibration velocity (V_i , max) falls within acceptable limits. Subject to review of the dilapidation reports described above, and assuming adjoining structures are founded and/or underpinned on bedrock, the Geotech engineer recommend that the V_i , max does not exceed 5mm/sec during bedrock excavation using rock breakers, subject to confirmation by the structural engineer.

JK Geotechnics also recommend that consideration be given to similar vibration monitoring of the adjacent sections of hospital buildings that will remain during bedrock excavation using rock breakers. Subject to confirmation by the structural engineer, they recommend that V_i , max's do not exceed 3mm adjacent to Pallister House and 10mm/sec for the remaining hospital buildings. Should higher vibrations be measured they should be assessed against the Vibration Emission Design Goals as higher vibrations may be acceptable depending on the vibration frequency. JK Geotechnics note that the vibration limits recommended above will reduce the risk of vibration damage to the neighbouring and/or adjacent buildings and structures. However, these vibrations may still result in perceived discomfort or concern to occupants of the neighbouring buildings and/or the hospital buildings. (Content provided by JKGeotechnics 32507R2rpt).

2.3.3 Existing Ausgrid Substation

The site is currently being serviced by an existing substation (2386). The figure below shows the AUSGRID network map for this substation and the surrounding area.

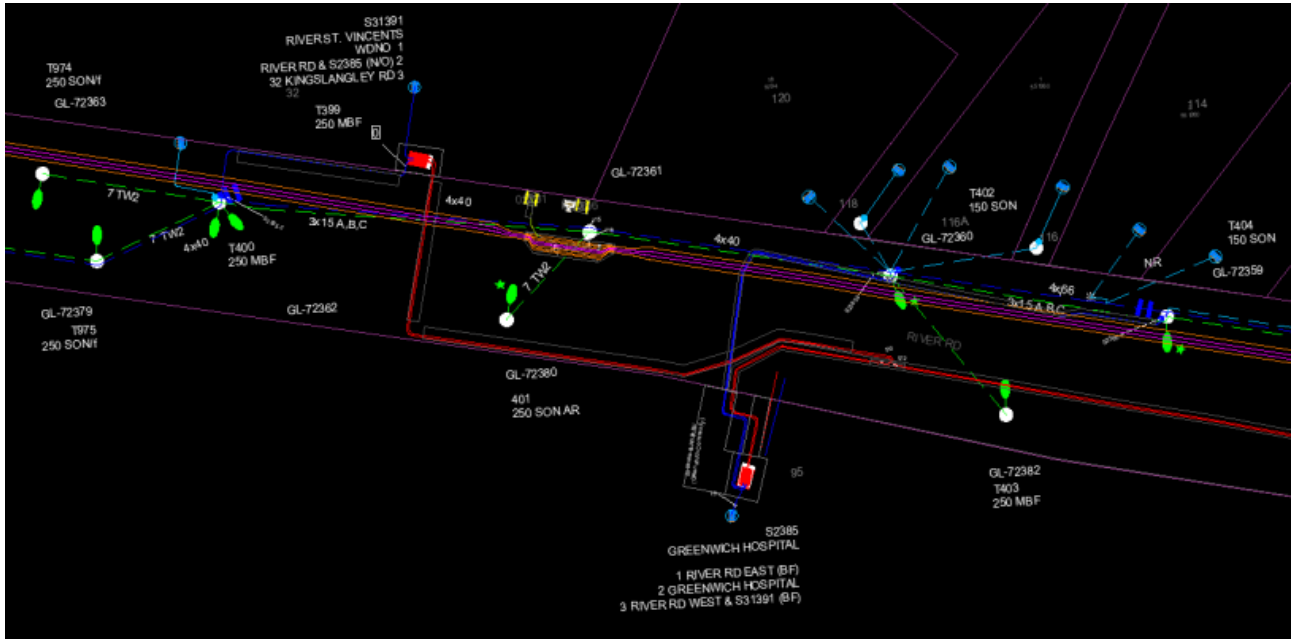


Figure 4 Existing HV Network

Existing High Voltage Endeavour Energy network reticulates along River Road and into the current Greenwich site to supply the existing kiosk substation. We can also see that the substation on HammondCare's land also supports the LV street network on River Road. This LV provides power to street lights and residential houses on the opposite side of the road. When this substation is removed and new substation/s are provided for future works, it will be required as part of the certified Level 3 design to either support the existing LV electrical supplies off another substation or support them off the new substation. This will be part of the design process, staging arrangements, and co-ordination with AUSGRID.

There is also an existing electrical easement that encompasses both the existing kiosk substation and the Ausgrid cables that reticulate within HammondCare's property. These easements will require relinquishment as part of the Ausgrid coordination works with the new substations.

3 PRE-CONSTRUCTION

3.1 Mobilisation and Kick-off Meeting

A start-up workshop will be held and chaired post contract award to meet all project stakeholders and to introduce the RCo team. The workshop will establish an interpersonal framework of integrated goals, roles and processes to encourage cooperation and collaboration which will ultimately result in a successful project. We will also use this meeting to review the risks and mitigation strategies as well as discuss any opportunities for innovation.

We will review preparation, submission and approval of RCO's project-specific plans including:

- Work, Health & Safety management plan
- Workplace Relations management plan
- Quality management plan
- Design management plan
- Environmental management plan
- Training management plan
- Traffic & pedestrian management plan
- Noise & vibration management plant
- Contract construction program
- Waste management plan
- Risk Management plan

Following the kick-off meeting, a regular monthly Project Control Group Meeting will be held to discuss matters including:

- Onsite work, health and safety matters
- Anticipated completion date
- Design and Construction works completed to date
- Construction status against the contract programme
- Matters affecting the Project deliverables
- Potential delays
- Current or pending variations to the Contract
- Progress claims
- Weekly programme reports
- Site instructions required from the Principal.

3.2 Industrial Relations

3.2.1 Overview

Roberts Co is committed to the effective and proactive management of industrial relations and we recognise that this, coupled with employee and contractor engagement, is a key contributing factor to the successful completion of the project.

We encourage greater flexibility and productivity with the aim of ensuring our Clients get maximum value from the projects we deliver. To achieve this, we will establish a positive and stable industrial relations environment from the start of the project by identifying requirements and providing guidance for Roberts Co and all participants on the project.

Our project team have experience of successfully managing industrial and employee relations on projects. At a minimum, the Company, our subcontractors undertaking works on the project, suppliers and consultants will be managed in accordance with the requirements of the WRMP.

The plan will do this by ensuring a constant focus on the following:

- Consistent and regular communication
- Implementation of initiatives that positively engage the workforce, our stakeholders and the community
- Ensuring the stakeholder relationships are based on transparency, respect and trust;
- Strong Environmental, Health and Safety (EHS) performance
- Provide and foster a work environment that supports cooperative working relationships and reduces the potential for workplace conflict
- Clear and concise processes and procedures that adhere to the legislation governing Industrial Relations, that foster stakeholder understanding and encourage the right behaviours.

This approach is supported by our Industrial Relations Policy.

3.2.2 Compliance

Roberts Co will comply with:

- The NSW Code of Practice for Procurement January 2005 ('NSW COP');
- New South Wales Industrial Relations Guidelines, Building and Construction Procurement, September 2017 ('Guidelines'); and
- Code for the Tendering and Performance of Building Work 2016 ('Code'), as amended from time to time.

Roberts Co has a current code compliant Enterprise Bargaining Agreement with our workers and the CFMEU that came into effect in October 2020.

The Project Manager has overall responsibility for ensuring compliance with the WRMP as part of our obligations in relation to contractual requirements, applicable legislation, industrial instruments, Codes and guidelines.

We will:

- Ensure on-site practices and procedures comply with the NSW COP and Guidelines, the Code, the health and safety management plan and WRMP
- Ensure that our subcontractors comply with the NSW COP and Guidelines, the Code and the WRMP; including reviewing their responses to the invitation to tender documentation
- Comply with any reasonable request for access and information from the Construction Compliance Unit (CCU)
- Report all suspected breaches of the Guidelines, or Code, to the CCU and the client agency within 24 hours of becoming aware of the suspected breach
- Allow the CCU to monitor and investigate compliance by interviewing any person, inspect any work, material, machinery, appliance, article or facility; or inspect and copy any record relevant to the project
- Require subcontractors to demonstrate they are meeting their obligations under the WRMP.

The nominated project team have experience in successfully delivering projects with no delays or industrial issues through developing positive working relationships with clients, stakeholders, employees, subcontractors and their representatives. Roberts Co are currently delivering all our live projects in compliance with the Code and Guidelines and are well aware of the requirements in our works.

3.2.3 Workplace Relations Management Plan

Project works will be undertaken in accordance with a site specific WRMP (RCo's internal document and not part of this EIS). The WRMP provides the framework for successful delivery of the project with no delays or industrial issues. The framework includes:

- Clear project roles and responsibilities
- Workplace Relations Risk Assessment and Management
- Site Establishment guidelines
- Subcontractor Management standards and procedures
 - Tender evaluation process and review (discussed in more detail within the Procurement Plan section)
 - Contract documentation
 - Subcontractor compliance
 - Managing subcontractor non-compliance
 - Productivity measurement
 - Direct labour management
- Inductions and Mobilisation
- Labour Productivity and Fatigue Management
- Freedom of Association
- Right of Entry
 - Training of staff in right of entry
 - Site security and access
 - Managing right of entry

- Monitoring right of entry
- Employee Representatives
- Grievance Management
- Management of unlawful industrial action

3.3 Procurement

To ensure program compliance is maintained at the level of quality required for the proposed hospital redevelopment it is essential the right subcontractors are selected to perform the works who can meet the demands of the project.

Critical packages identified for this project include:

- **Jumpform** – the procurement and erection of the jumpform is critical to achieving the programme dates. As the jumpform will be one of the first elements required on site following hand over of an excavated site, quick design finalisation and procurement of the jumpform will be required. We will award this separately to the Jumpform supplier to secure the system and then novate to the formworker.
- **D&C Services trades** – these will need to be selected prior to Contract award and engaged immediately upon contract award. Services trades will be required to review, verify and develop design to allow core designs to be finalised. Services trades are also critical for finalising inground hydraulic services and basement plantrooms designs.
- **Civil & Retention structures**– the design of the site retention systems and method of excavation is crucial to commence quite early
- **Post Tension** the final design of the structure and have shop drawings coordinated with the services trades is important to maintain program
- **Façade** – early procurement will be key to ensure there is sufficient time to design, prototype and procure the façade elements.

We will adopt a range of approaches in the procurement and subcontractor management phases of the project. These include:

- Preferred trade partners who can bring expertise, value and market experience to the design and delivery of the project will be selected on the basis of their experience, corresponding expertise, safety performance, quality, capacity (both in design and on site) and value for money.
- Key subcontractors that have the capacity and capability to deliver the balance of the trade packages will be invited to tender the works in a competitive environment. These subcontractors will be assessed and only invited to tender if we believe they have the capacity to undertake the works.

Our procurement programme is derived from lead times determined from the overall construction program. Initial focus will be on D&C service subcontractors, structure and façade packages with this early procurement critical to ensure and secure the best fit subcontractor for the respective trade packages.

Procurement of all consultant and subcontractors will be completed in accordance with Roberts Co Procurement Procedure and Procurement Guidelines. Conformance with these guidelines will ensure that subcontractors and suppliers meet the safety, environmental and quality requirements determined by the organisation. We recognise that a robust supplier, service provider and subcontractor network is a key element of a successful and safe business.

Roberts Co has a process for early engagement with the supply chain, including subcontractors. To increase certainty of performance, we will select subcontractors who have been proven on projects and shown their capacity to comply with the relevant legislation and the NSW Code and Guidelines.

The assessment process includes a detailed review of the subcontractor's:

- Track record of industrial relations management on previous projects
- Administration processes and capability (payroll etc)
- Status in relation to any industrial instrument(s)
- Ability to allocate adequate resources that will ensure timely delivery of works on the project
- Experience in delivering the type of project that is being tendered
- History of engagement with employees and their representatives
- Ability to manage employee grievances and industrial relations disputes
- Plan to drive productivity gains on their projects
- Management of their workforce while providing a high quality of work
- History of compliance with applicable legislation, codes and guidelines, as well as any industrial arrangements in place that covers their workers terms and conditions

All potential subcontractors are required to complete a Subcontract Tender Details (STD) form in addition to setting out scope of work requirements that forms part of the Invitation to Tender (ITT) documents issued for each package of works. This is designed so that we can assess compliance with:

- The New South Wales Code and Guidelines
- Employment obligations under the Fair Work Act
- Any industrial instrument(s)
- Work Health and Safety requirements and legislation, as well as past performance
- Contractual obligations as prescribed in the standard forms of contract
- Workforce capacity
- Level of insurances
- Current project workload

The STD document consists of:

- Invitation to Tender Letter (Conditions of tendering, including the NSW model tender and contract documentation)
- Technical scope of works
- Subcontractor Tender Details document that requires tenderers to answer questions relating to:
 - Organisational structure
 - Project and company insurances
 - Types of management plans in place
 - Current workload
 - Workplace health and safety, environmental, quality and industrial relations
 - Permission to allow financial auditing by Roberts Co
- Conditions of contract
- Questions relating to workplace health and safety, environment and quality

4 CONSTRUCTION STRATEGY

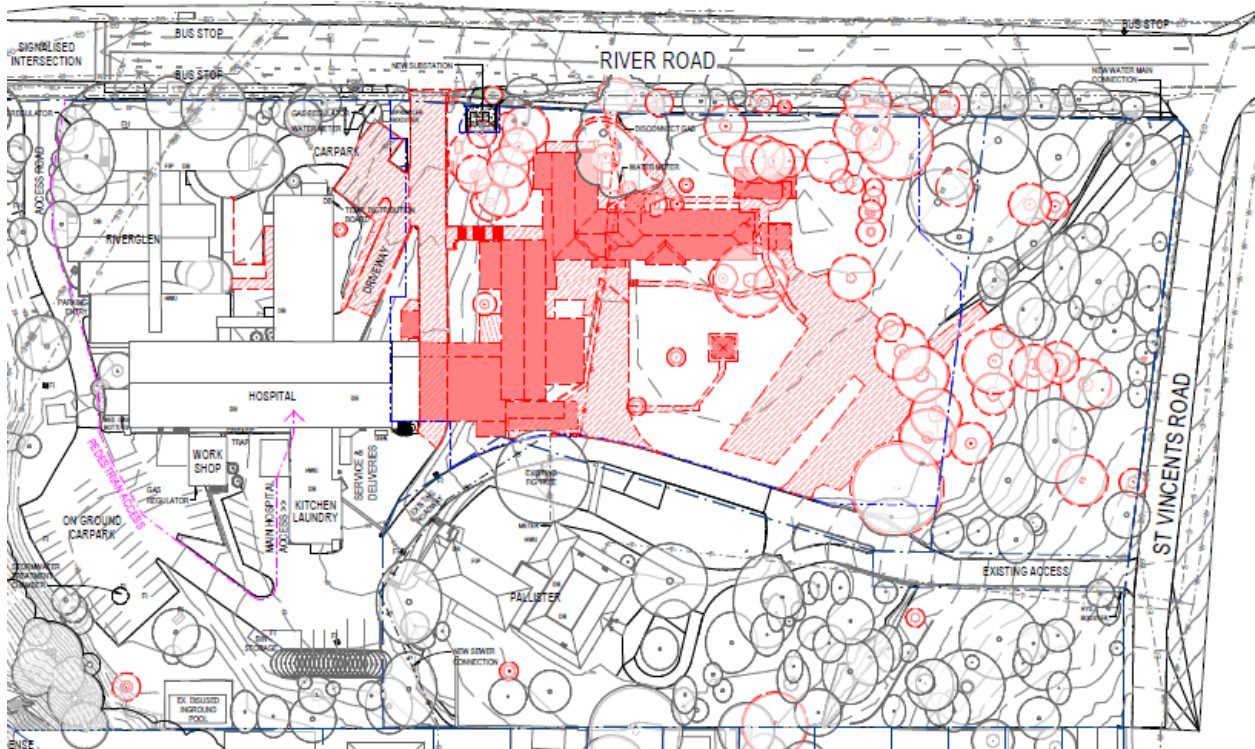
4.1 Site Establishment

4.1.1 Site Boundaries

The site compound will fully enclose the works using a combination of A class and B Class Hoardings, as shown on the Site Establishment drawings for all the stages.

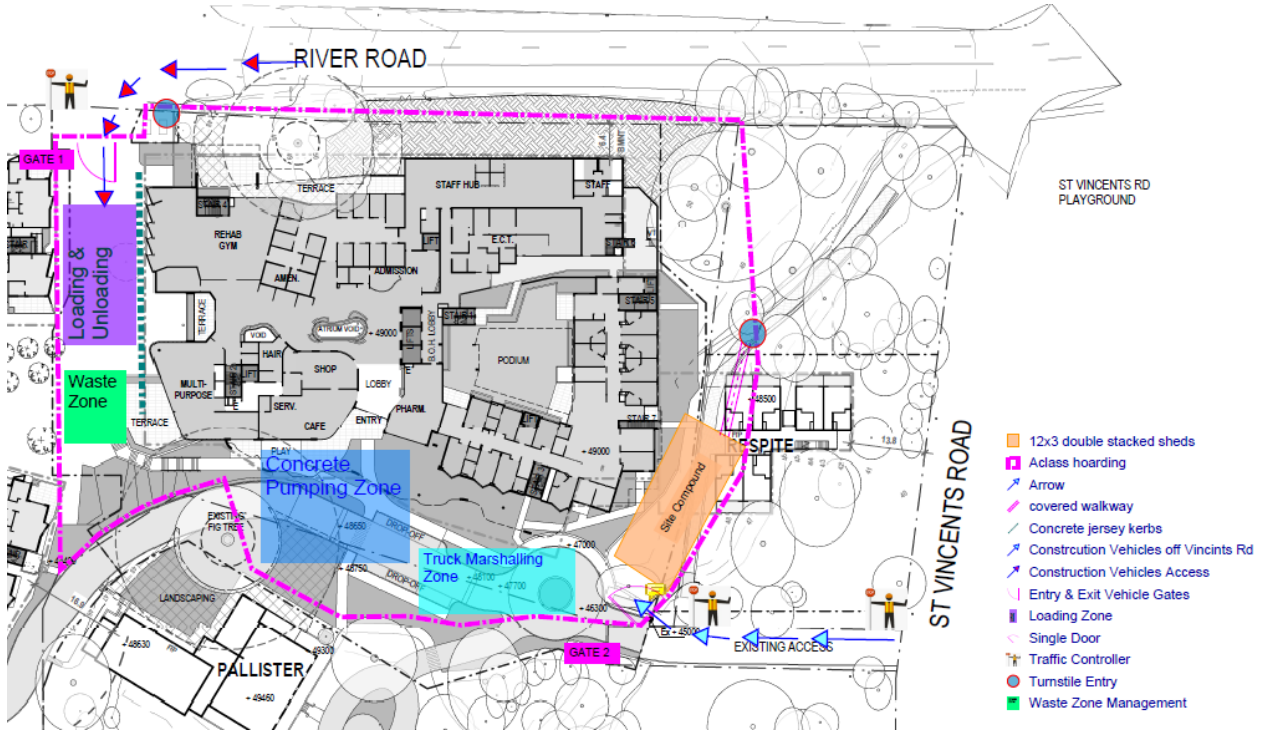
Prior to the installation of A Class Hoardings, we will install temporary fencing. This will be used to demarcate required exclusion zones during the demolition of the structures. Once the demolition of the existing buildings is complete, A Class Hoardings will be erected.

4.1.1.1 Stage 1



Stage 1 incorporates early works and external works. The scope of works for this stage involves external works (services decommissioning and capping, temporary MSB, new substation, potable water supply, and temporary power and comms supply to hospital and Pallister House). Temporary services to support Stages 2 & 3, temporary hydrotherapy pool and miscellaneous internal works will also be carried out.

4.1.1.2 Stage 2



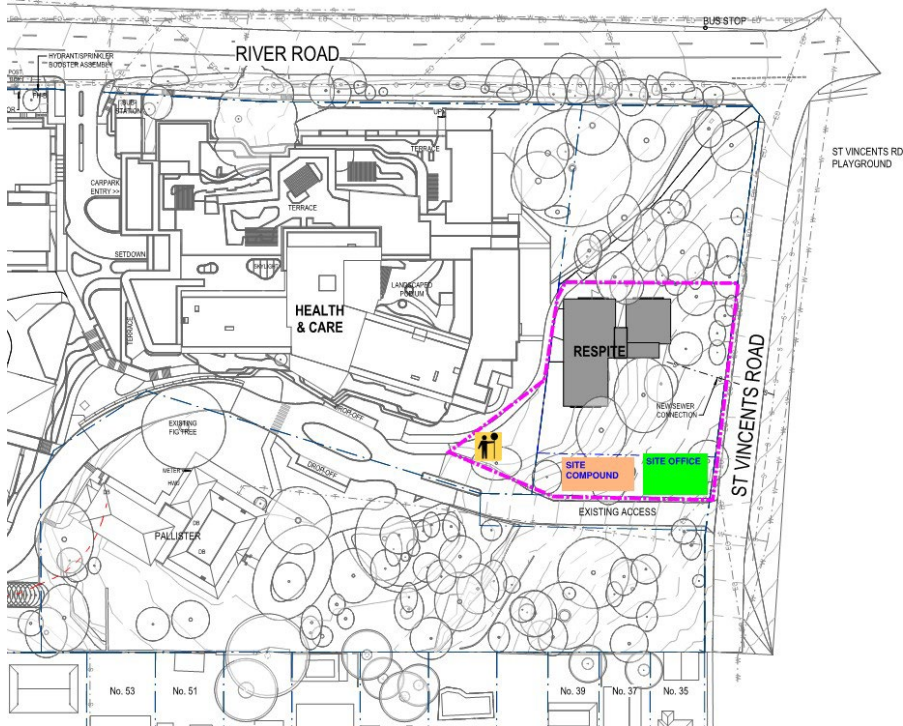
The image above shows the site boundary for Stage 2 which includes two access gates for construction vehicles and two turnstile gates for workers.

4.1.1.3 Stage 3



Stage 3 boundary will encapsulate the future Stage 3 (Senior Living Buildings) site and provide an area for material handling and storage.

4.1.1.4 Stage 4



4.1.2 Traffic Management

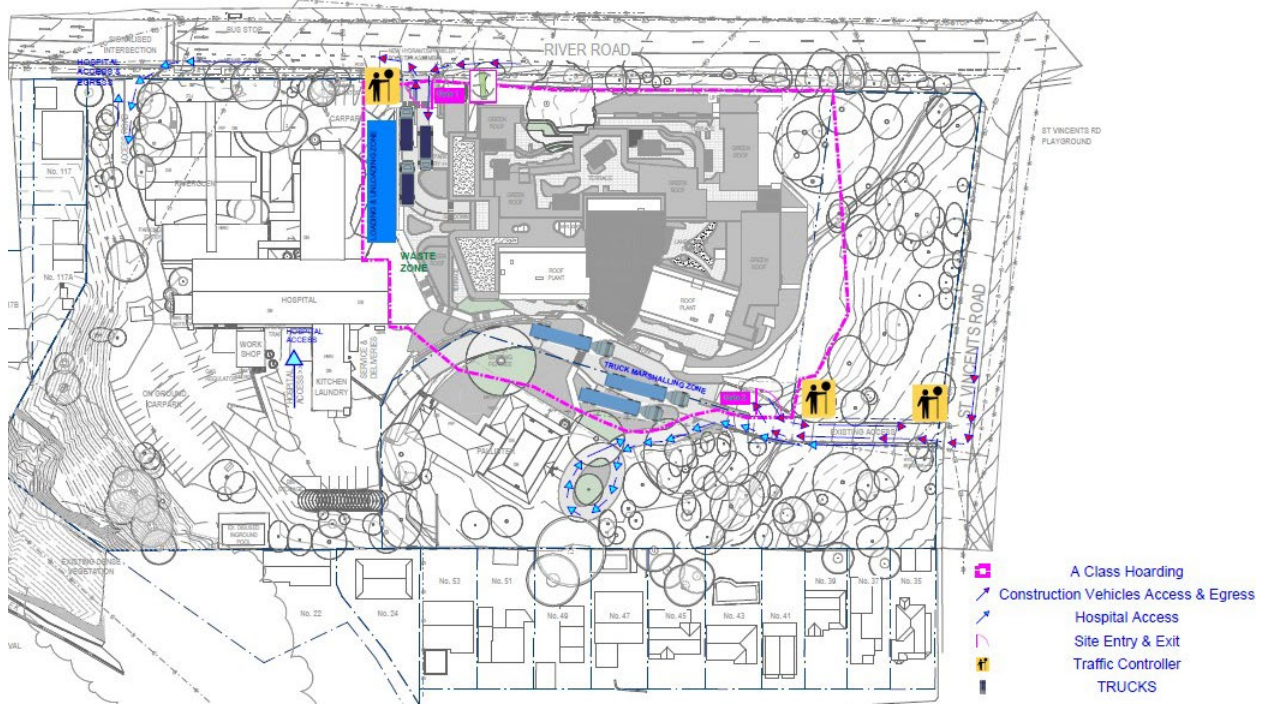
We understand the importance of providing a seamless transport management strategy to ensure construction works do not impede the operation of the Hospital and the public with the following construction vehicle impacts have considered:

- Reducing impacts to residents on surrounding streets.
- Maintaining vehicle and pedestrian access along St Vincent Road and River Road.

A Construction Traffic Management Plan will be included as part of the final CMP outlining all requirements for construction vehicles during construction works. The Construction Traffic Management Plan will highlight approach and exit routes for construction vehicles to the site as well as confirm swept paths for all construction vehicles within the site. The CMP will be in accordance with TTPA Greenwich Traffic and Parking Assessment, ref 20352.

Subject to Traffic Engineer's input and approval, RCo are considering the following traffic management routes for each stage:

4.1.2.1 Stage 2



For Stages 1 & 2, during all phases of construction, access for construction vehicles will be via St Vincent's Road and River Road.

Based on the scale of the development and the proposed construction programme, the following number of vehicles are expected as summarised in the table below. These construction vehicle volumes are indicative only and would be confirmed following the procurement of subcontractors.

Description	Stage			
	Bulk Excavation	Structure	Fitout and finishes	Landscaping / external works
Deliveries per day	30-40 per day	25-30 per day	30 per day	20 per day
Deliveries per hour	6 - 8 per hour	5 per hour	6 per hour	4 per hour

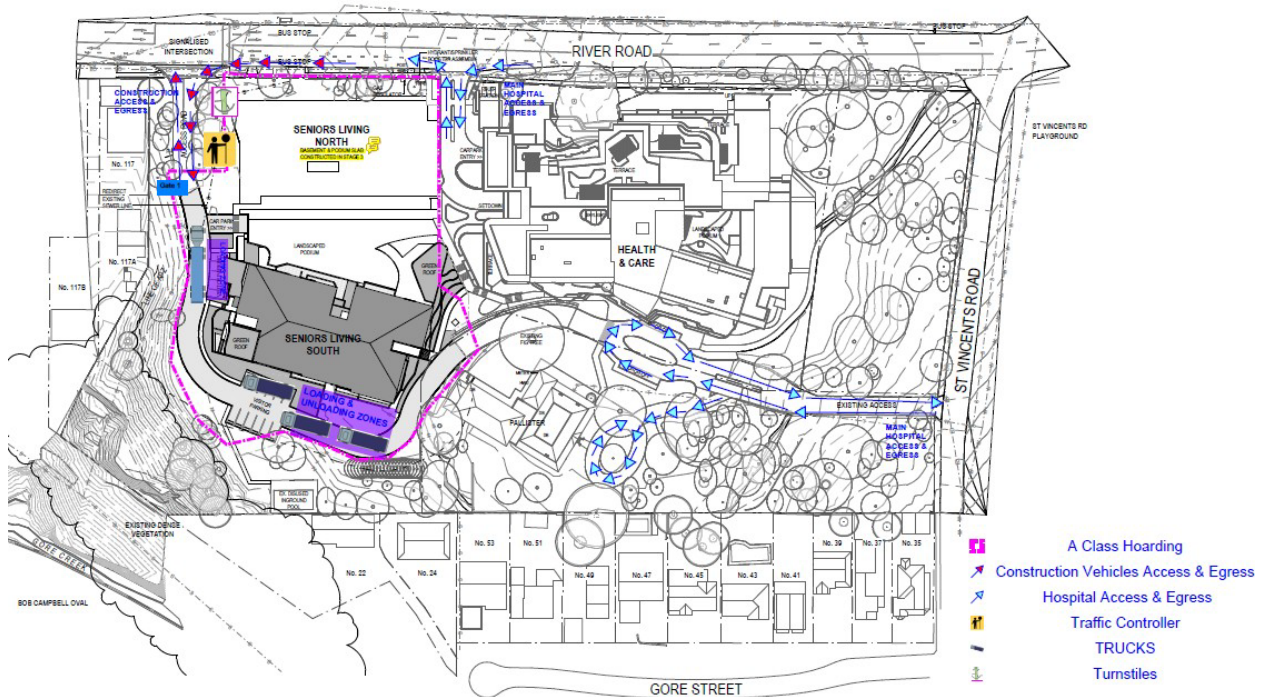
The following vehicle types as outlined in Australian Standards AS2890.2 are expected to be used during the project across all stages:

- 19m Single Articulated Vehicles (AVs) or truck and dogs;
- 12.5m Heavy Rigid Vehicles (HRVs)
- 8.8m Medium Rigid Vehicles (MRVs)
- 6.5m Small Rigid Vehicles (SRVs);
- Utes/vans

The maximum truck size that will likely access the site is a 19m Articulated Vehicle which will carry large construction material. There is provision on-site for these vehicles to turn around and so they will be able to access the site directly and will not require a Works Zone on the adjacent public road system. All heavy goods such as machinery plant will need to be delivered outside of peak traffic hours.

4.1.2.2 Stage 3

Subject to approval from HammondCare, the construction traffic access and egress to construct Stage 3 will be via River Road and St Vincent's Road as noted below.



4.1.2.3 Construction Vehicle Interface with the Public

There will be multiple occasions where construction vehicles will require interface with the public. RCo have developed a site plan and staging to minimise these interfaces and where unavoidable will have strategies in place to ensure there is clear separation between construction and public zones. These strategies include:

1. Traffic Control

The primary control for all construction vehicles will be traffic control including traffic controllers and signage. Through a well-planned and effective traffic management strategy we can manage all vehicles entering and existing the site. Traffic Controllers will manage the site gates on River Rd and St Vincent's Rd

2. Timing of Deliveries

Deiveries will be scheduled during off peak times where possible to minimise the impact of construction on public traffic.

3. Slip Lane

Concrete Pumping activities will be completed from within the site boundary which will further reduce the interface of construction activities with the public.

4.1.3 Scaffold

The leading-edge protection will predominately be provided through implementation of perimeter captive scaffold for all stages, main hospital, and senior living buildings.

4.1.4 Materials Handling

4.1.4.1 Cranage

A crane analysis has been undertaken to ensure the model, position of the cranes and jib radii are the most efficient solution for the building. The tower cranes will have a max radius of 60m will be erected from the main hospital entry off River Rd using a mobile crane.

The exact type of the cranes and the capacity at max radius is yet to be determined once the design has progressed further towards the 50%

No lifting of loads will take place over adjacent properties. The bases of the tower cranes will be secured with a non-climbing screen, preventing the potential for any member of public accessing the cranes. The machine deck access hatches shall be secured at the end of each day and motion detectors shall be installed within the towers with a back to base alarm notifying of any unauthorised persons gaining access to the towers.

The below images show the location of the tower crane for each stage. The erection and dismantling position for the crane for all stages will be using the Hospital Main entry suspended slab.

INTEGRATED MANAGEMENT SYSTEM
CONSTRUCTION MANAGEMENT PLAN
GREENWICH HOSPITAL REDEVELOPMENT

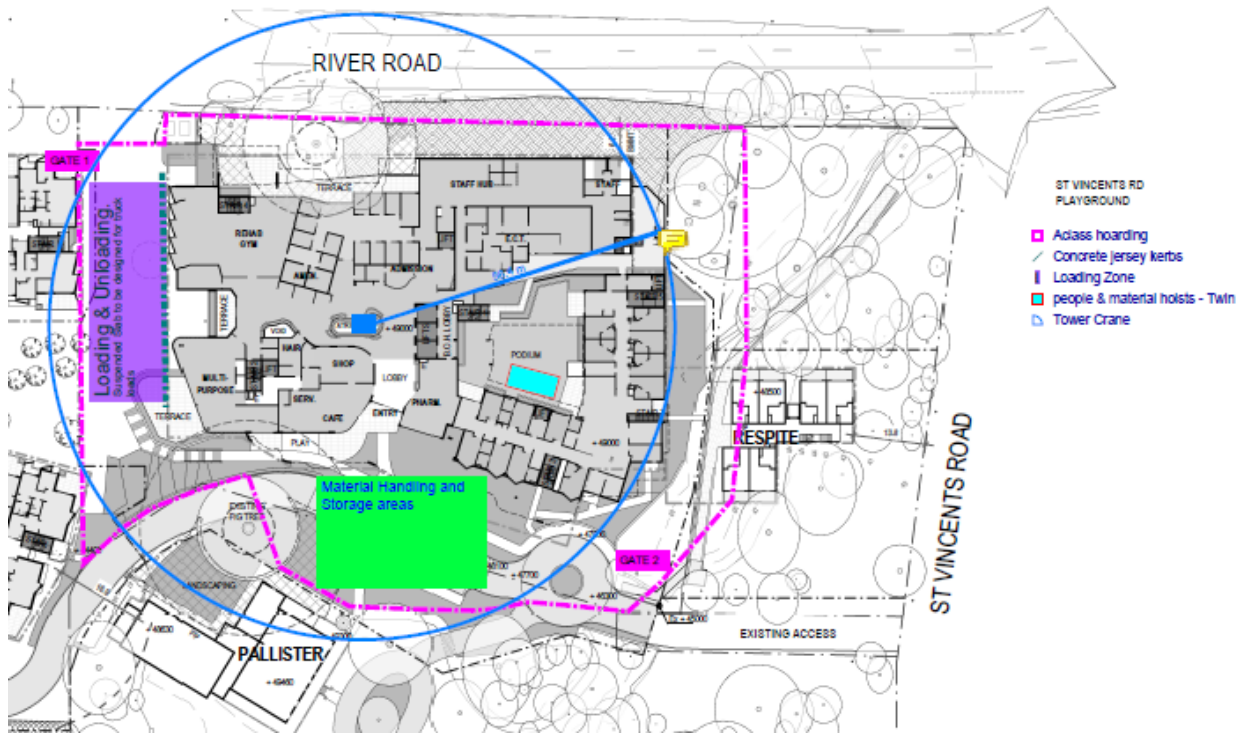


Figure 5 Stage 2 Tower crane location

INTEGRATED MANAGEMENT SYSTEM
 CONSTRUCTION MANAGEMENT PLAN
 GREENWICH HOSPITAL REDEVELOPMENT

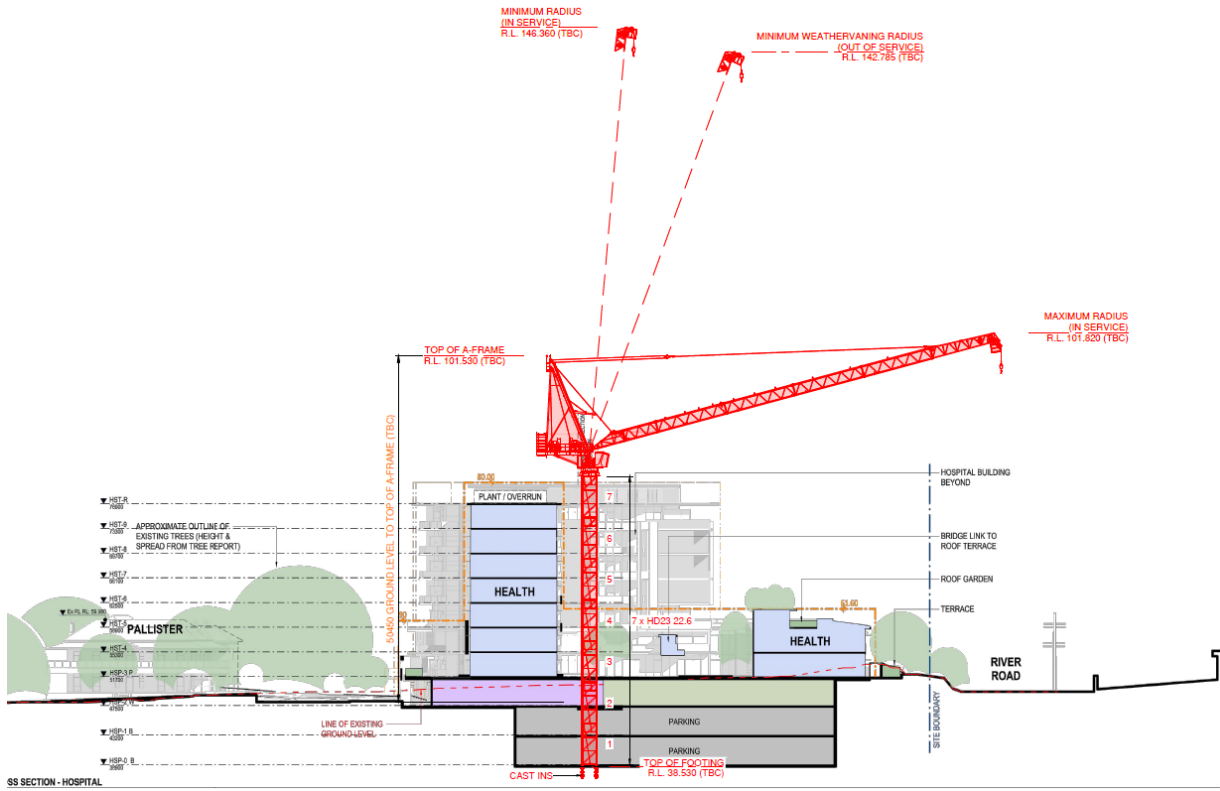


Figure 6 Stage 2 crane elevation



Figure 7 Stage 3 TC location

4.1.4.2 Loading Platform

To feed the project with materials, we will install industry standard retractable loading platforms. They will initially be used to crane formwork, falsework and materials from the floors as the structure is completed. They will then be used to pre-load services trade materials (i.e. duct, pipework, cable tray and the like) and finishing trades materials including the unitised curtain wall façade panels.

Loading platforms will be placed on each level past level 5 of the main hospital.

4.1.4.3 Hoists

One Twin Hoists will be provided on the project servicing the main hospital Stage 2 with one single hoist servicing Stage 3. These hoists will be to service the movement of construction workers throughout the project. The hoist will be high-speed ensuring efficiency throughout the floors. At each hoist location there will be temporary interconnecting scaffold bridges joining both buildings which will also help streamline the movement of workers across the job.

4.1.4.4 Concrete Deliveries & Placement

The suspended slabs and structure will be poured using two 36m Static boom pumps which will be installed on the project. There will be one static boom for each tower which will enable flexibility across the project and enable both vertical and horizontal structural elements to be poured on the same day. The concrete pumps that feed the static tower booms will be set up within the site which will allow full utilisation of the pump's capacity. Each Pump will be arranged so that both pumps can run a two-truck feed whilst maintaining the other loading zone for other critical deliveries. Refer to image below.

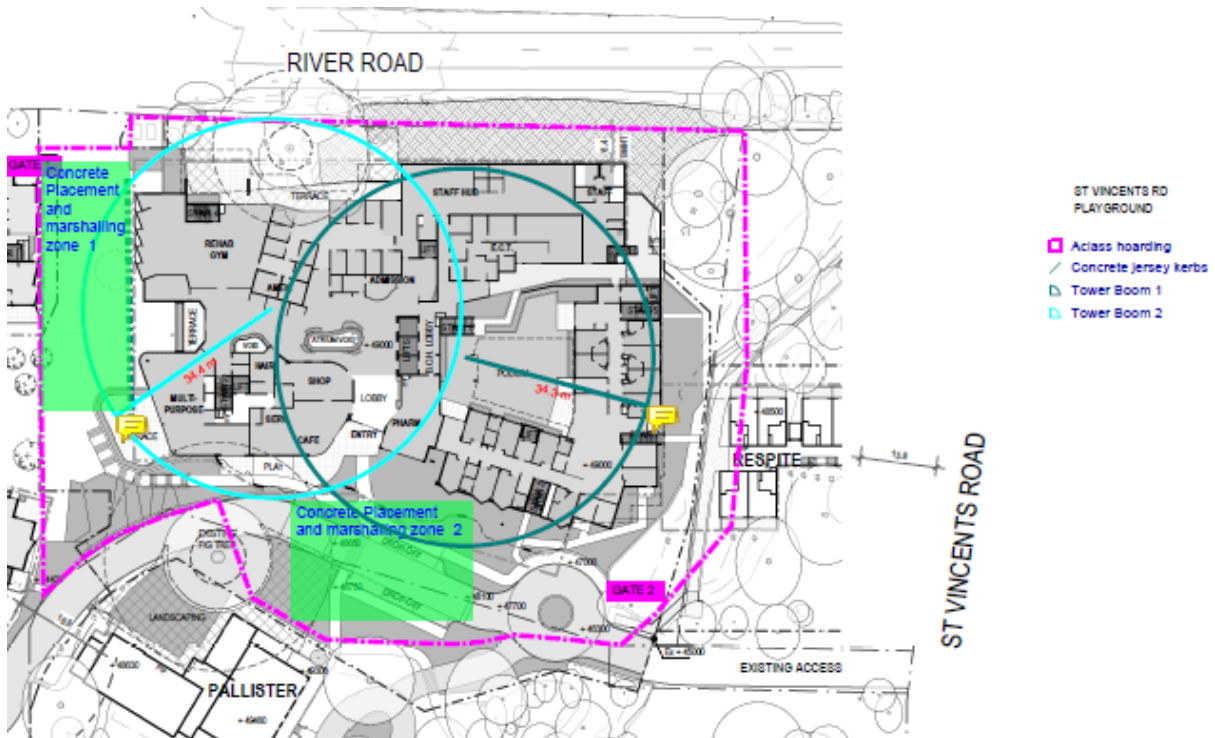


Figure 8 Stage 2 Concrete Placing Booms and Zones

As for Stage 3, the concrete placement will be placed using a 48m concrete boom truck.

4.1.4.5 On Site Storage

On site storage of materials and equipment will be kept to a minimum. Materials and equipment required for site will be delivered to site when required to be incorporated into the construction works. Materials and equipment that do need to be stored on site for a short period shall be stored within the site compound, be neatly stacked and securely strapped. Laydown areas within the job will be nominated and managed.

4.1.4.6 Site Amenities

Temporary site accommodation and amenities for the construction workforce will be provided according to the project staging. The site amenities will include:

- Site accommodation including lunch and change rooms
- Male and female ablution facilities
- Multi-purpose induction, training and meeting rooms
- First Aid facility
- Parent nursing room
- Covered walkways and access stairs.
- Roberts Co Office facilities.

4.2 Project Sequencing

The detailed project sequencing for each stage will be described once the design has progressed further into 30% design. In future iterations of this CMP, the sequencing will describe and explain RCo's approach to

- Additional investigation and site acceptance
- Treatment and protection of existing trees
- Early works
- Site Establishment Demolition
- Site retention and excavation
- Substructure
- Superstructure
- Façade
- Services
- Fitout & Finishes
- External works

4.3 Staging and Timing

At this stage of the design, it is anticipated that the following Staging and Timing will apply:

- Stage 1
 - All activities 12 weeks
- Stage 2
 - Site establishment 6 weeks
 - Demo 5 weeks
 - Excavation 18 weeks
 - Construction 114 weeks
- Combined Stage 3
 - Site establishment 3 weeks
 - Demo 10 weeks
 - Excavation 12 weeks
 - Construction 70 weeks
- Stage 4
 - Site Establishment 2 weeks
 - Excavation 2 weeks
 - Construction 30 weeks

4.4 Site Management

4.4.1 Work Hours

We will ensure strict compliance with approved working hours during construction activities. Any requirement for works to take place outside of the approved hours will be sought through the relevant authorities in conjunction with communication protocols for stakeholders and the community. Working hours for the project are:

- 7.30am to 5.30pm Monday to Friday and 7.30am to 3.30pm Saturday.
- No work is to be carried out on Sunday or public holidays without prior approval.

The delivery programme for the works has incorporated the above time constraints and forms the basis of the proposed construction methodologies and overall construction sequencing. Where specific works require extensions of the above times, we will identify works early and communicate with the PCA and Council to ensure all necessary approvals are obtained.

4.4.2 Site Security

Roberts Co will ensure there is controlled and secure access to all areas of the site, at all times throughout the duration of the project.

The site will be secured, and access will only be via the turnstiles which operates via a QR code. No one will be able to enter the site without a QR code which is issued after undertaking a site induction via the RCO Subbie App; this includes visitors sign-in. The data we have from the app is very accessible and informative, so we know exactly who is on site and when.

Out of normal hours, we have allowed for regular drive by security inspections of the site. For the last few months of the project, we have allowed for a night-time security guard to protect the Site. We will also have security measures installed around the base of the tower crane to prevent any unauthorised personnel climbing the crane.

4.4.3 Subcontractor Management Strategy

Effective subcontractor management is a critical factor in the successful delivery of the project's objectives and outcomes. We will implement our commercial, contractual and risk management procedures providing governance necessary to manage subcontractors that are engaged for the project. These procedures coupled with the allocation of experienced resources will ensure subcontractors are appropriately selected and managed to achieve the required project outcomes.

Jobpac will be the commercial ERCO system we use to manage subcontractors and the administration of projects commercial functions. Jobpac is a critical software package that will assist the team to manage subcontractor contracts, commitments, progress claims, variations and compliance with administrative requirements. Aconex will manage all correspondence and drawing transmittals on the project.

4.4.4 Stakeholder Management Strategy

Roberts Co appreciate the importance of open and effective communication required to successfully deliver Greenwich Hospital Redevelopment. Communications will be built on the principle of cooperative contracting, enhanced communication, clear definition of roles, responsibility for outcomes, and promoting best practice.

Communication between Roberts Co and the Principal will be honest and sincere and built on respect and trust. With a foundation of effective communication between us and TSA Project Management, communication with stakeholders and the community will prosper.

Our strategic principles for Greenwich Hospital Redevelopment include acting as a good neighbour and ensuring business continuity for surrounding neighbours. We recognise that any works which may impact neighbours and greater community must be communicated early and, in a manner that non construction individuals will be able to understand to enable an informed response.

As part of our planning of the works, the team will identify any disruptive works which will require notification to neighbours and the community. These works may include but are not limited to HV consumer mains works, stormwater connection to existing Sydney Water Assets to the North of the site, authority connections in River Rd and installation and removal of tower cranes. In addition, our engineers will assess impact of works on a case-by-case basis while developing Work Packs for individual activities. As part of the development of Work Packs, the site team will be required to assess impact on neighbours and whether notification is required.

4.4.5 Risk Management

Roberts Co understand the challenges associated with the project. The project has critical construction and services interfaces and requirements that must be understood and managed to successfully deliver the project while providing continuity of surrounding businesses.

Roberts Co will manage risks by implementing our Safety, Quality and Environmental Risk Management processes and will work collaboratively with the TSA and HammondCare in planning construction activities so that any impact, disruption, and potential risk is identified, reviewed, mitigated, planned and communicated as required.

Roberts Co will take the lead role on the disruption risks with site coordination managed by a formal meeting framework comprising of Project Review Group Meetings, Project Meetings, Stakeholder meetings, weekly coordination meetings and specific Risk Workshop Meetings.

As previously highlighted in this document, we have identified the following activities that have the potential to significantly impact the surrounding precinct if not managed effectively and communicated proactively with stakeholders:

- Ausgrid Substation Works
- Authority Mains connections
- Demolition and Excavation
- Tower crane installation and Removal

A formalised Risk Register will remain a live document updated and reviewed throughout the course of the project.

4.4.6 Health, Safety, Environment and Quality

4.4.6.1 WHS Management Plan

Roberts Co considers health and safety as the number one priority on all projects. Our policies and procedures provide a framework to manage risk and accident prevention at the company's workplaces. The Health, Safety and Environment Management System (HSEMS) identifies the positions within the company that are responsible for designing, developing, implementing and enforcing health, safety and welfare in accordance with legislation.

Our team has reviewed the construction activities required for the Project works and have identified high risk construction work activities as defined in the NSW WHS Regulations:

- Risk of a person falling more than 2 metres
- Work likely to involve disturbing asbestos
- Work in or near a shaft or trench deeper than 1.5 m or a tunnel
- Work on or near energised electrical installations or services
- Work in an area with movement of powered mobile plant
- Temporary load-bearing support structures
- Work on or near pressurised gas pipes or mains
- Work on, in or adjacent a road or other traffic corridor in use by traffic other than pedestrians

As an essential step in successfully managing these high-risk constructions activates, our team will create and maintain a Project Risk Register to ensure risks are monitored and catered for at any time. Following the review of our initial risk assessment during tender, our experienced site management team and our EH&S Manager will invite the selection of subcontractors to discuss their Safe Work Method Statement (SWMS) and arrangements to be put in place to make sure the high-risk construction work is performed safely in accordance with the SWMS. Our site team will then monitor the implementation of the SWMS 'on the ground'.

4.4.6.2 Environmental Management

As part of our commitment to acting as a good neighbour on behalf of HammondCare, Roberts Co is committed to ensuring our site activities do not impact negatively on the environment in the project area.

Upon award, will prepare a fully detailed Site Environmental Management Plan that outlines the processes for managing environmental aspects and impacts in accordance with ISO 14001:2015, Protection of Environment Operations Act 1997 and the Protection of Environment Operations (Noise Control) Regulation 2008.

We have identified the following key environmental concerns along with their management strategies to ensure the successful delivery of the works:

Identified Environmental Concern	Management Strategy
Dust & Airborne Contaminates – During Excavation Works	<ul style="list-style-type: none"> – Use water suppression during demolition, cutting and removal of materials from site – Cover stockpiles and using water to prevent dust generation – Use tarpaulins or equivalent on trucks arriving and leaving the site
Noise and Vibration – During Construction	<ul style="list-style-type: none"> – Select and apply the best work practices to minimise noise impacts, including choice of plant, construction methodologies, timing of activities – Identify noise impacts at sensitive land uses – Monitor noise and vibration during high decibel activities
Sediment and run off – During Excavation	<ul style="list-style-type: none"> – Develop and implement Site Erosion and Sediment Control Plans (ESCP) – Use sand bagging and geo fabric cloth over drains, silt-traps, along with a sediment basin if required, wheel wash/ cattle grid – Implement stormwater contamination management plan
Dewatering	<ul style="list-style-type: none"> – Develop Early Works contractor Dewatering Management Plan to collect, treat and remove water from within the excavation
Pollution and / or contaminants (Paint or Solvents) – During Construction	<ul style="list-style-type: none"> – Apply wash out drums, small trade waste bins, overflow bunds, proper storage of chemicals in cupboards and, as a last resort, spill kits
Waste Disposal – During Construction	<ul style="list-style-type: none"> – Implement waste management plan throughout project

	– Minimise waste, separate materials, reuse and recycle.
Hazardous Materials – Prior during trenching excavation works	– Remove and dispose of all hazardous materials, including Asbestos Containing Materials in accordance with Safe Work NSW and EPA NSW requirements with minimum impact to the surrounding areas – Prepare and implement hazardous waste management plan
Site Entry Environmental Control – Pedestrian management and plant/person separation	– Provide dedicated pedestrian walkways, exclusion zones and staging zones to separate plant and person and lower risk of flammable atmospheres, and artificial extreme temperatures – Maintain detailed public and construction pedestrian access routes for site.

An Environmental Control Plan will be developed which includes but is not limited to defining:

- Site layout and boundary, including entry/exit points, pedestrian access ways, internal roads, and clearing limits
- Nearest noise sensitive buildings
- Location and type of sediment and erosion control measures, including size / capacity of detention basins, and wheel wash facilities (specifically during demolition works)
- Identification and management of HAZMAT materials through a contaminated management plan including inspection, sampling, treatment and disposal
- Location of spill containment and clean-up equipment
- Location of worksite waste management facilities
- Hours of work applicable to the worksite (including deliveries, any restrictions on high noise generating activities).
- Location of environmentally sensitive areas (e.g. threatened species, critical habitat, contaminated areas, heritage zones, etc)
- Vegetation and trees to be protected as identified in the Arborist Report
- Location of stormwater drainage and watercourses
- Specific environmental management requirements from licenses, approvals or permit conditions
- Key environmental risk issues and the specific mitigation measures.

The plan will be used in inductions and support site set-up, to review ongoing environmental performance, will be included as information in tender documents to subcontractors (where applicable) and applied in support of ancillary environmental approvals.

Key site entry environmental controls include:

- Security site access gates
- Shaker bays at exits
- Class A and B perimeter hoarding for site separation
- Site security cameras
- Traffic management and traffic controllers

Roberts Co will implement a project specific Plant and Equipment Management Plan for all items on site to ensure maintenance checks are conducted appropriately and when required in accordance with both legislative requirements and our IMS procedures and standards. The following requirements apply:

- Plant will be inspected prior to operation on site, particularly fuel lines, hydraulic hoses, or other items with the potential to impact the environment. Items found to be worn, damaged or otherwise degraded are to be replaced prior to operation
- Plant will be serviced, re-fuelled, and washed down only in approved areas where hydrocarbons can be captured and then properly disposed
- Fuelling will be carried out in bunded areas when fuelling from bulk tanks (where applicable)
- Plant and equipment will be maintained to prevent / fix oil leaks
- Plant will be driven and operated only in approved areas
- Plant will have effective pollution control and sound attenuation devices fitted
- Dedicated Cattle Grid and Wash Down Points will be implemented.

The expected plant and equipment required for the delivery of the project works include, but are not limited to:

- Tower cranes
- 40t, 60t, 100t Mobile Crane
- Fork Lift
- Telehandler
- Man and Materials Hoists
- Formwork hoists
- 2 x Concrete tower booms
- 5t, 14t, 20t and 30t excavators
- 1t Maeda Crane

Project wide environmental risks, obligations, and impacts will be identified and assessed prior to the commencement by the Project Manager and project team, and documents as required, including Project Risk Assessment (PRA); Environmental Risk Action Plans (ERAPs); SWMS, Inspection and Test Plans / check sheets (as appropriate), and Work instructions or procedures (e.g. refuelling and servicing).

All plans will be live and adapted to meet the client's requirements to improve the day to day running of the project.

4.4.6.3 Environmental Record

Roberts Co have not had any fines, incidents or investigations over the previous 3 years and pride ourselves on our exemplary Environmental record. This is largely attributed to our focused and planned approach to environmental management on the projects that ensure all project staff take ownership and responsibility of environmental outcomes.

This approach is supported from Senior Management with the implementation of our Environmental Policy.

4.4.6.4 Waste Management

Roberts Co believes that a tidy site is a safe site, and this principle will be maintained throughout the construction duration. Rubbish bins/skips will be provided at strategic positions around the site, where all subcontractors will be required to clear their rubbish as it accumulates. These bins will be brought down the building in the construction hoists or via the tower crane and loaded via forklift into the large skips. The current location of the waste management compound is to the south west corner of the site establishment zone.

A specific Waste Minimisation Plan will be developed in accordance with the Environmental Management Plan to ensure optimum waste management initiatives are implemented.

Our Waste Management Plan (WMP) is included as a sub plan of the Environmental Management Plan for the Project. The aim of this plan is to work at best practice in minimising the amount of waste produced during the development and manage that waste in order to reduce the amount going to landfill.

The Waste Management Plan will meet regulatory requirements and utilise a waste contractor that has been independently verified for compliance with minimum standards of reporting in accordance with Green Star Benchmarks. In setting standards and to achieve waste re-use and recycling onsite, the site-specific Waste Management Plan will be implemented.

Subcontract trade packages will be prepared and tendered to ensure optimum recycling through waste management achieves the required targets. Due to the restricted site requirements, Roberts Co proposes to have mixed waste bins that will be sorted and recycled off site. This eliminates the potential for comingled waste entering recycling bins. In accordance our Waste Management Plan, detailed recycling programs will be developed for all phases of the works. The site subcontractors will be required to report on extent of recycling achieved and be subject to Environmental Audits.

4.4.6.5 Noise, Dust and Vibration Management

Monitoring of noise emissions, vibration and air quality during the redevelopment works is necessary to maintain the health and wellbeing of people who are involved in the works and of those surrounding the project. In addition, vibration sensitive equipment and assets must also be protected during the works.

Roberts Co's objective is to understand stakeholder's noise and vibration limitations and develop strategies to work within those limits, or where exceedance of the limitations cannot be avoided, investigate with stakeholders' ways to manage planned exceedances at appropriate times. We have identified primary works which will require noise and vibration considerations including demolition and excavation works.

The project team will employ a Noise and Vibration Management Plan which includes:

- Detailed assessment of background conditions to accurately assess noise and vibration impacts of the works
- Provide a direct line of communication between stakeholders to RCo Project Manager
- On site attendance of the Acoustic Engineer to take noise measurements at critical receiver locations
- On site attendance will be conducted during periods of the job expected to generate the most vibration (Inground Works)
- Site attended measurements at key periods will provide a better identification of the noise and any impact to the surrounding environment.

4.4.6.6 Dust Management

Dust shall be suppressed wherever possible to ensure air quality, and to avoid health and safety issues and nuisance to occupants. All waste to be removed from site shall be adequately covered by suitable means to minimize air-borne dust.

The following dust control measures implemented on the project:

- Water hoses during demolition the process for dust suppression
- Regular periodic clean-up of work and staging areas
- Drilling or cutting shall utilise low vibration wet cutting and drilling to further reduce dust emissions
- Other cutting or drilling shall be carried out behind debris screens
- Vacuum attachments to cutting, drilling and grinding tools shall be implemented to further control dust emissions.

4.4.6.7 Air Quality Management

The project team will implement controls to suppress dust and other suspended particles in accordance with legislation and risk management requirements minimising the generation of dust on site and potential emission issues relating to plant and equipment.

The Air Quality Management plan is included within the project EH&S plan. Our strategy would include the installation of air quality monitors where required for civil earthworks. These monitors will record air quality levels. They are also capable of sending a real-time alarm to the project manager to notify of any activities that exceed the limits.

Dust shall be suppressed wherever possible to ensure air quality, and to avoid health and safety issues and nuisance to occupants. All waste to be removed from site shall be adequately covered by suitable means to minimise air-borne dust. Where dust is identified as a risk, strategies to minimise impacts on the public will be used such as additional screening/filters at air intake points to ensure dust does not enter other buildings or residences.

The following dust control measures implemented on the project:

- Clear definition of trafficable and material storage areas to prevent unnecessary vehicle movement into other areas
- Installation of wheel shaker grid and / or wash down facilities at vehicle egress point
- Regular periodic clean-up of work and staging areas
- Drilling or cutting shall utilise low vibration wet cutting and drilling to further reduce dust emissions
- Other Cutting or drilling shall be carried out behind debris screens
- Provide filters to air intake vents
- Road sweepers to maintain the cleanliness of the surrounding roads.

4.4.6.8 Soil and Water Management

We will ensure there is appropriate erosion and sediment control and truck wash facilities for the duration of the demolition and excavation stages. These will be actively managed by the Civils contractor.

In addition, we will ensure dewatering management systems are in place during the construction phase.

4.4.6.9 Hazardous Materials Storage

Some construction materials are classified as hazardous materials, the type of product will determine the method they are to be handled and the storage requirements of the materials.

Roberts Co propose to store all the hazardous materials in a central position that does not pose a threat to the disruption of the surrounding buildings.

Wherever possible alternate materials will be selected that are less hazardous, for instance water-based products in lieu of solvent based products. This is not always practicable and hazardous materials are required to complete the works.

The hazardous material storage area shall be a secure, locked device. It shall include provision for containment of hazardous material as well as spill or leak control – (e.g. bunding to limit the spread of a liquid; warning devices that detect a gas leak). Fire control and emergency response – these are the steps to be taken if containment fails. The hazardous materials storage area will form part of the Site Emergency Plan, in the case of an incident the storage area shall be easily accessible to emergency services and incorporate fire control and monitoring devices relevant to the hazardous materials.

Ventilation of the storage area will be carefully considered in accordance with the requirements of the hazardous material. The location of the storage area shall be located away from any existing building window or intake vent. The area shall be adequately sign posted with warning signs and protected by barriers to prevent inadvertent collisions with vehicle and equipment. The area will undergo regular maintenance, inspections and cleaning to ensure the controls are current for the materials being stored.

The hazardous material storage area shall be in accordance with the Safe Work Australia Code of Practice 2005.

4.4.6.10 Progressive Inspections

To ensure a defect free product is delivered at the completion of the project, Roberts Co will conduct progressive inspections with a range of stakeholders throughout the construction works to ensure any potential defects are identified during construction where they can be rectified efficiently. Progressive inspections will be conducted with:

- TSA
- HammondCare
- Design consultants
- BCA and DDA consultants
- PCA
- F&R NSW
- Authorities including: Ausgrid, Sydney Water, Jemena and Council

RCo's methodology is based on being open and transparent. By engaging stakeholders early and conducting inspection we believe that we can provide the best outcome for the project. Stakeholders are afforded the opportunity to provide feedback on the works, provide input based on their experience while also generally feeling part of the project team as opposed to walking at the end of the project.

We welcome the client and its representative to visit the site as often as they like and to contact the Project Manager to arrange a time.

4.4.6.11 Defects Management Methodology

Eliminating defects that arise during construction, or at the very best resolving defects in a timely manner prior to completion, requires the application and proven processes designed to identify and resolve defects in real time. To reduce the occurrence of defects and to ensure they are dealt with in an appropriate and timely manner, we will implement a defects management plan that forms part of the overall Handover and Finalisation Plan. (Internal RCo Quality management Document)

The defects management plan will provide the structure for the site team and subcontractors team that will be designed to:

- Ensure defects and quality issues are not allowed to accumulate
- Ensure inspections are carried out by the workforce and that links are established with the company's quality assurance systems
- Ensure tradesmen and their direct line of supervisors see quality as their responsibility to enable quality issues to be resolved at the lowest possible level.
- Our defects methodology is designed to eliminate defects rapidly without the need for excessive paperwork and administration. We will undertake the following processes utilising real-time data capture of defects and non-conformances as they occur, mitigating the risk of a substantial number of defects at completion.

This system enables:

- A focus on getting things right first time – eliminating the need for costly revisit and rework, as a Roberts Co representative can undertake inspections and sign offs simply via the application, resulting in greater vigilance
- The option to invite consultants to monitor the quality of workmanship and finishes during the course of construction, provides a third level of inspection and reporting prior and during a defect's resolution.
- Defects and Quality inspections to be administered via the one application, with all information in one central repository
- Notification of defects to the applicable tradesmen and direct line supervisors; identifying the exact defect site location on the relevant drawing, the description, images and documentation, along with the required timeframe for rectification
- Ability to report and close out defects at the defect location via the application, using a lightweight mobile device on site, such as iPad or mobile phone, ensuring the defect is closed out only when rectified (not in a site office)
- Enables Roberts Co and TSA to track the closure of all defects and a defects current status
- Maintains real time history of all actions including when the defect was created, when the responsible party took action, and determine programme and cost impacts
- All defects, whether open or closed to be filtered by trade, location and time frame, to ensure holistic overview and review

The defect methodology process via the Roberts Co defects management application will be rigorously applied to the Project and site level quality awareness will be reinforced with quality inspections by the Design Consultants and this process will be an integral part to the installation, commissioning and handover process.

Zutec Field will be used as Defect Management software for the project. This software allows us to manage defects, handover documentation and in the field fire penetration status to provide a single source of truth.

4.4.6.12 Handover Documentation

We will issue the following in hard copies and digital format:

- Draft submission of all Operation and Maintenance Manuals for Principal review – 10 weeks prior to Practical Completion
- Final submission of all Operation and Maintenance Manuals within 4 weeks post Practical Completion
- Draft submission of the Warranties & Spares Register for Principal review – 3 Months Prior to Practical Completion
- Final submission of the Warranties & Spares Register for Practical Completion
- Final BIM model of the Works within 6 weeks of (the later of) Date of Practical Completion and issuance of the Occupancy Certificate

The documentation will be managed using the digital platform Zutec. This software incorporates staged submission of documents as well as a digital workflow process that allows the client and its consultants or representatives to review documentation where required. Handover of the documentation will follow the requirements outlined in the PPR.

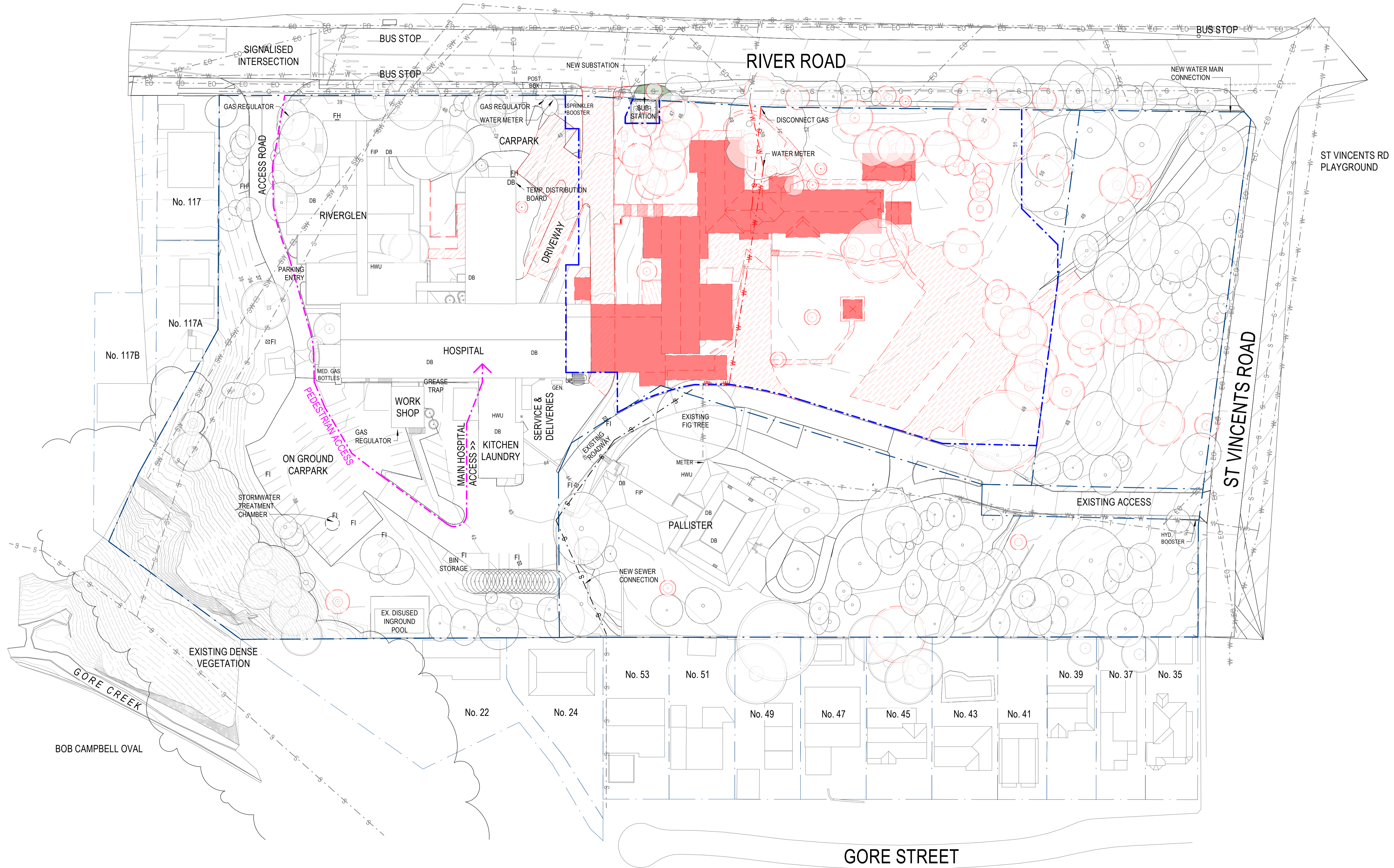
5 APPENDIX A - STAGE 1 SITE MANAGEMENT PLAN

6 APPENDIX B - STAGE 2 SITE MANAGEMENT PLAN

7 APPENDIX C - STAGE 3 SITE MANAGEMENT PLAN

8 APPENDIX D - STAGE 4 SITE MANAGEMENT PLAN

STAGE 1



0m 10m 20m 30m 40m 50m

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NSW NOMINATED ARCHITECT: ANDREW MASTERS NSW ARB No. 9037

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REV	DATE	DETAILS	INITIALS
P5	2022.11.11	CONSULTANT COORDINATION ISSUE	HV
P4	2022.10.28	ISSUE TO CONSULTANTS	CL
P3	2022.10.25	ISSUE TO CONSULTANTS	AMac
P2	2022.09.02	ISSUE TO CONSULTANTS	CL
P1	2022.06.24	ISSUE TO CONSULTANTS	AMac



NORTH

LEGEND - SITE DEMOLITION PLAN

- SITE BOUNDARY
- - - STAGING LINE
- - - EXTENT OF EXCAVATION (APPROXIMATE)
- / / / EXISTING TO REMAIN
- / / / DEMOLISHED (SURFACE)
- / / / DEMOLISHED (BUILDING)
- - - EXISTING SERVICE TO REMAIN
- - - EXISTING SERVICE DEMOLISHED (REFER TO CONSULTANT DRAWINGS)

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CLIENT:
HammondCare
Champion Life

PROJECT: 01605
**GREENWICH HOSPITAL
REDEVELOPMENT**
RIVER RD, GREENWICH

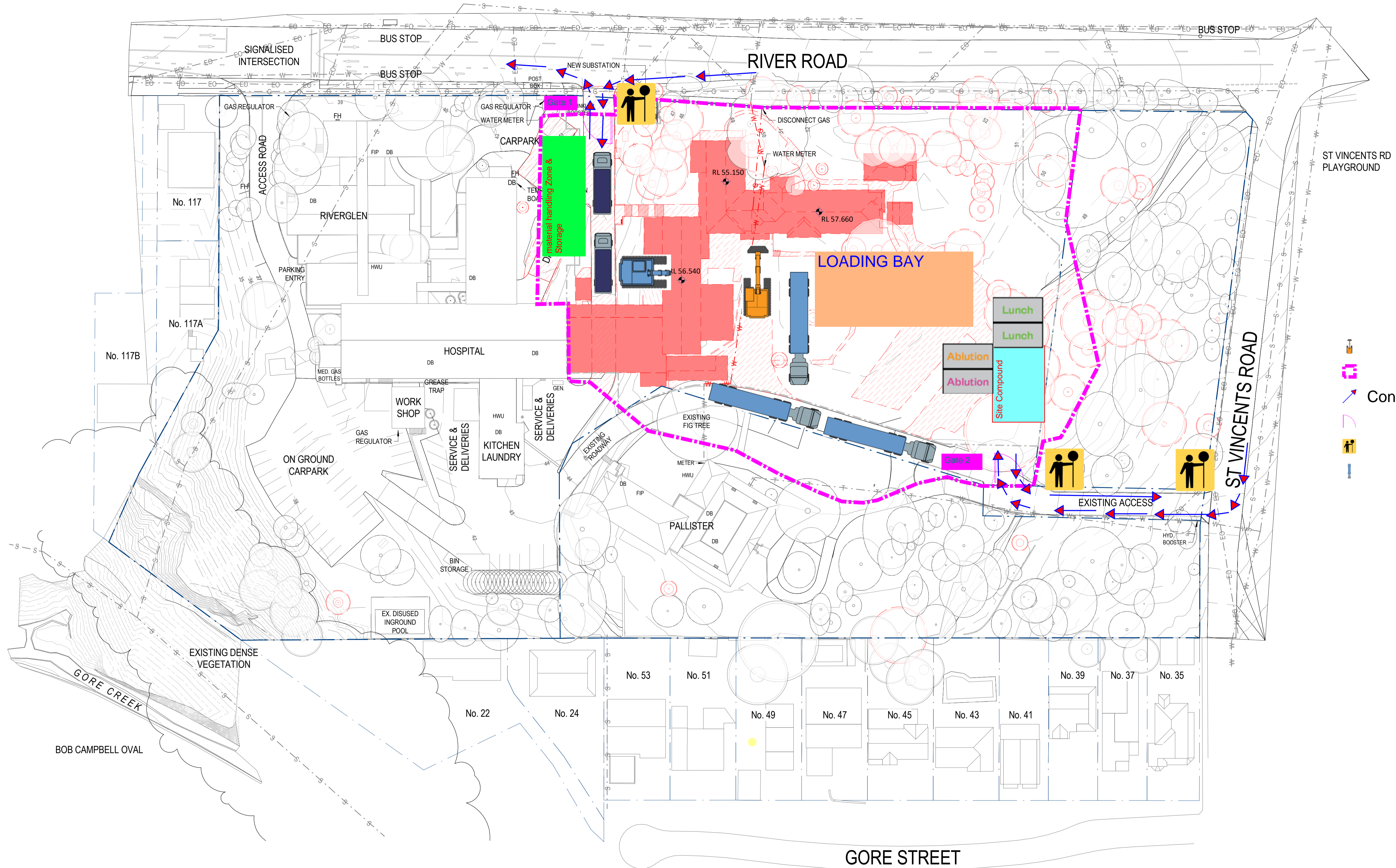
REVISION: DRAWING No:
P5 AR-SW-0121

DATE: DRAWING TITLE:
STAGE 1 PLAN - EARLY WORKS

DRAWN: NAH CHECKED: SCALE: 1 : 500 @A1

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

STAGE 2 DEMOLITION



- Legend**
- 30t Excavator
 - A Class Hoarding
 - Construction Vehicles Access & Egress
 - Site Entry & Exit
 - Traffic Controller
 - Truck & Dog



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REV	DATE	DETAILS	INITIALS
P7	2022.04.08	LODGEMENT ISSUE FOR CLIENT SIGNOFF	AMac
P6	2022.04.01	FINAL DRAFT LODGEMENT ISSUE	AMac
P5	2021.09.01	ISSUE TO CONSULTANTS	NAH
P4	2021.08.09	ISSUE TO CONSULTANTS	NAH
P3	2021.04.20	CAD ISSUE	NAH
P2	2021.04.08	ISSUE TO CONSULTANTS	NAH

SITE DEMOLITION PLAN LEGEND

	SITE BOUNDARY		STAGING LINE
	EXTENT OF EXCAVATION (APPROXIMATE)		EXISTING SERVICE TO REMAIN
	EXISTING TO REMAIN		EXISTING SERVICE DEMOLISHED (REFER TO CONSULTANT DRAWINGS)
	DEMOLISHED (SURFACE)		
	DEMOLISHED (BUILDING)		

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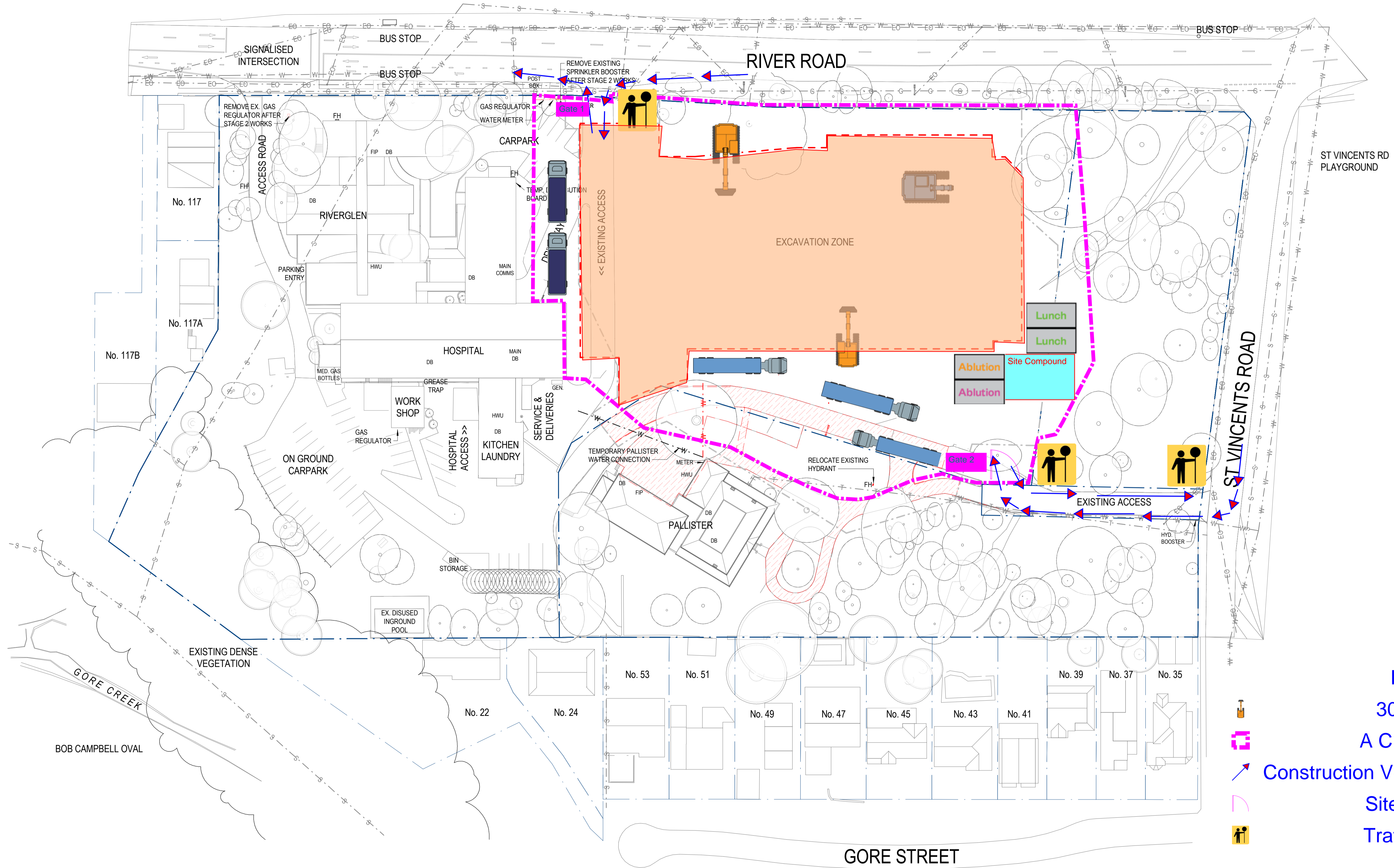


CLIENT:
HammondCare
 Champion Life
 PROJECT: 01605
**GREENWICH HOSPITAL
 REDEVELOPMENT**
 RIVER RD, GREENWICH

REVISION: DRAWING No:
P7 DD-SW-0121
 DATE: 01/18/21
 DRAWING TITLE:
STAGE 1 PLAN - EARLY WORKS
 DRAWN: NAH CHECKED: SCALE: 1:500 @A1
 NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037) 8/04/2022 5:15:48 PM

PRELIMINARY ISSUE
 NOT FOR CONSTRUCTION

STAGE 2 EXCAVATION



- Legend**
-  30t Excavator
 -  A Class Hoarding
 -  Construction Vehicles Access & Egress
 -  Site Entry & Exit
 -  Traffic Controller









PRELIMINARY ISSUE
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P3	2021.04.20	CAD ISSUE	NAH
P2	2021.04.08	ISSUE TO CONSULTANTS	NAH

SITE DEMOLITION PLAN LEGEND	
	SITE BOUNDARY
	STAGING LINE
	EXTENT OF EXCAVATION (APPROXIMATE)
	EXISTING TO REMAIN
	DEMOLISHED (SURFACE)
	DEMOLISHED (BUILDING)
	EXISTING SERVICE TO REMAIN
	EXISTING SERVICE DEMOLISHED (REFER TO CONSULTANT DRAWINGS)



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Champion Life

PROJECT: 01605
GREENWICH HOSPITAL
REDEVELOPMENT
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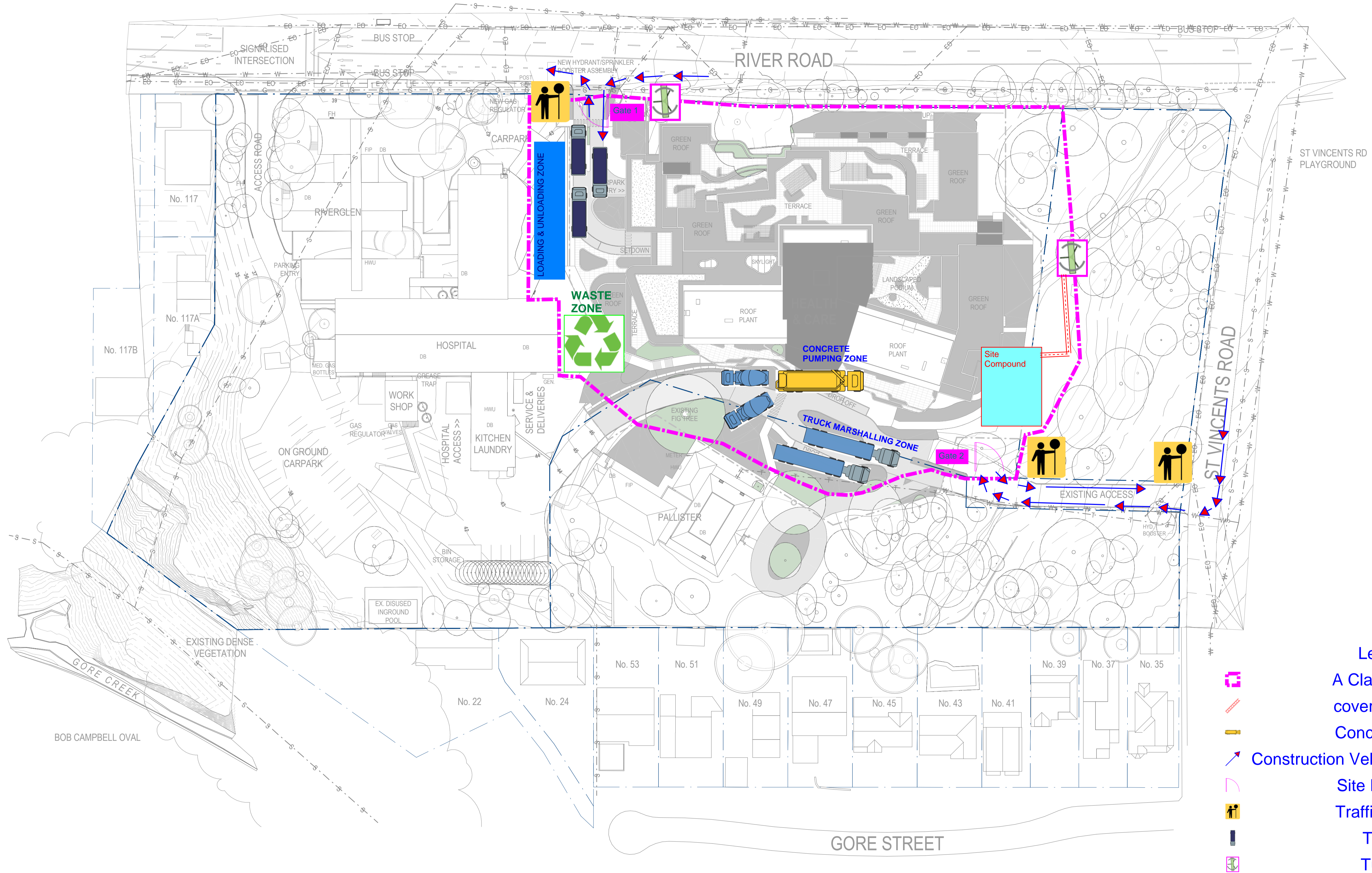
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STAGE 2.1 PLAN - DEMOLITION

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NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037) 8/04/2022 5:17:12 PM

STAGE 2 SITE MANAGEMENT Facade, structure & finishes



- Legend**
- A Class Hoarding
 - covered walkway
 - Concrete Pumps
 - Construction Vehicles Access & Egress
 - Site Entry & Exit
 - Traffic Controller
 - TRUCKS
 - Turnstiles



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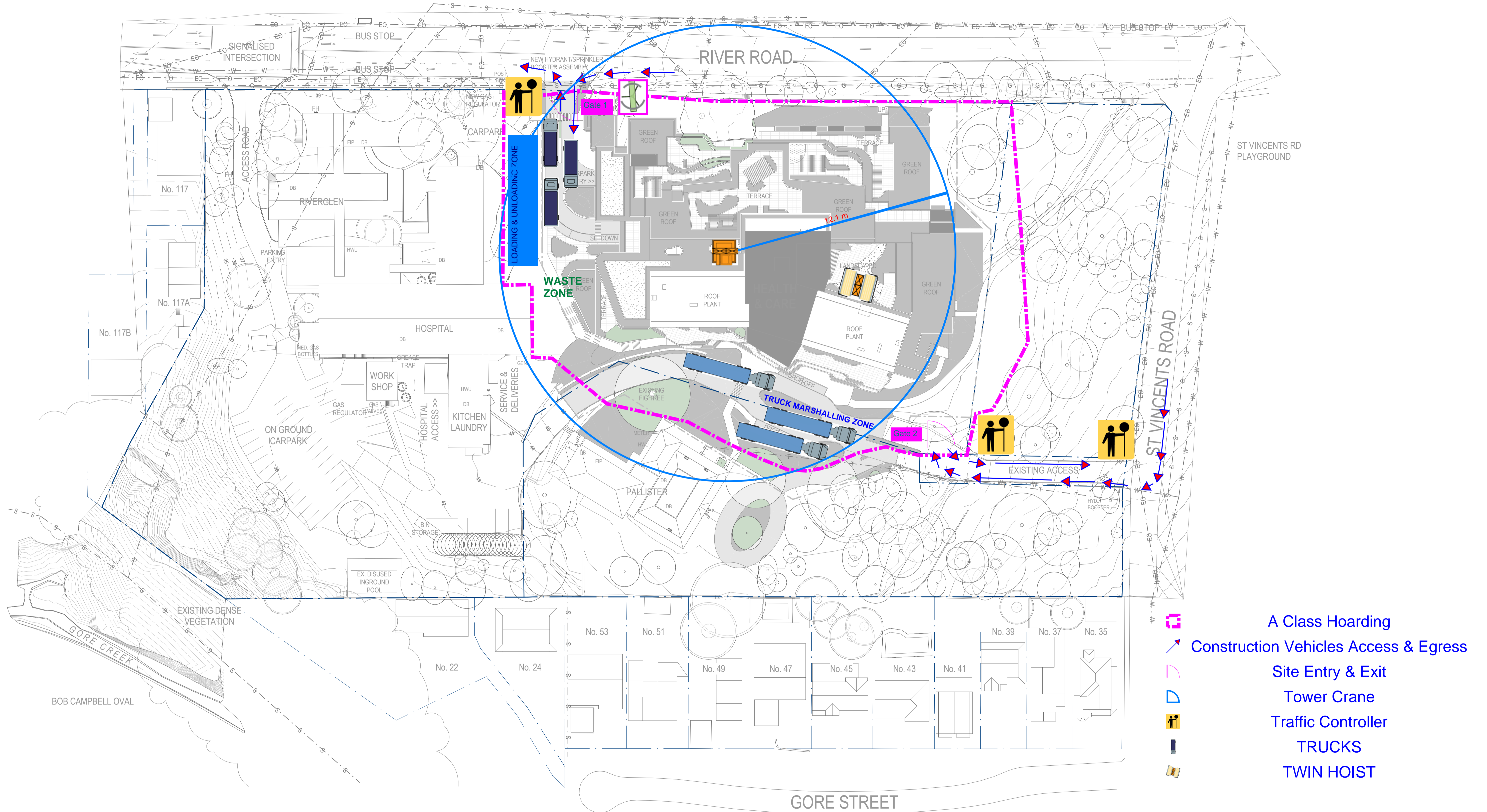
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STAGE 2 MATERIAL HANDLING



- A Class Hoarding
- Construction Vehicles Access & Egress
- Site Entry & Exit
- Tower Crane
- Traffic Controller
- TRUCKS
- TWIN HOIST



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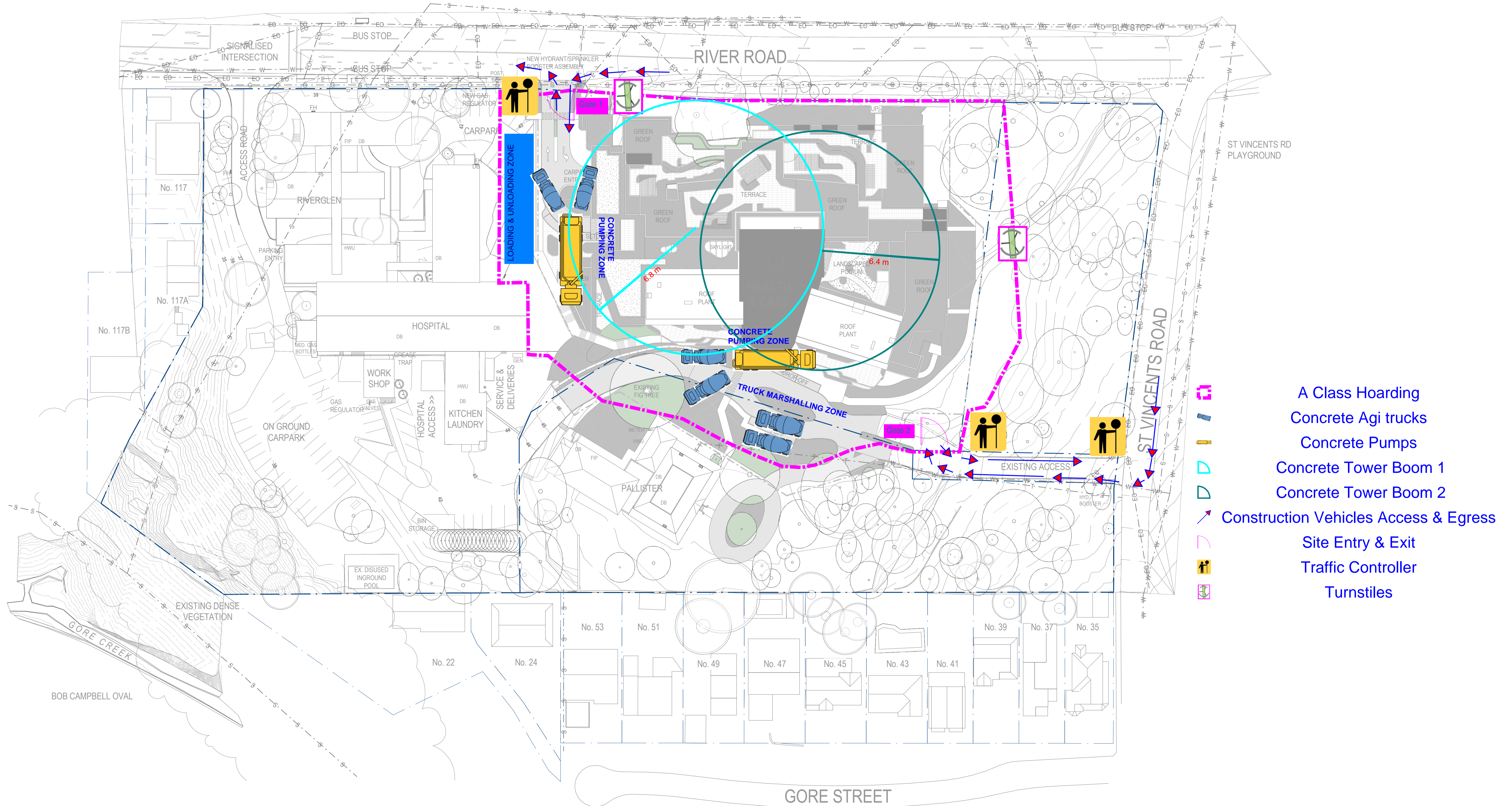
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STAGE 2 SITE MANAGEMENT Facade, structure & finishes



- A Class Hoarding
- Concrete Agi trucks
- Concrete Pumps
- Concrete Tower Boom 1
- Concrete Tower Boom 2
- Construction Vehicles Access & Egress
- Site Entry & Exit
- Traffic Controller
- Turnstiles

0m 10m 20m 30m 40m 50m

1:500 @A1
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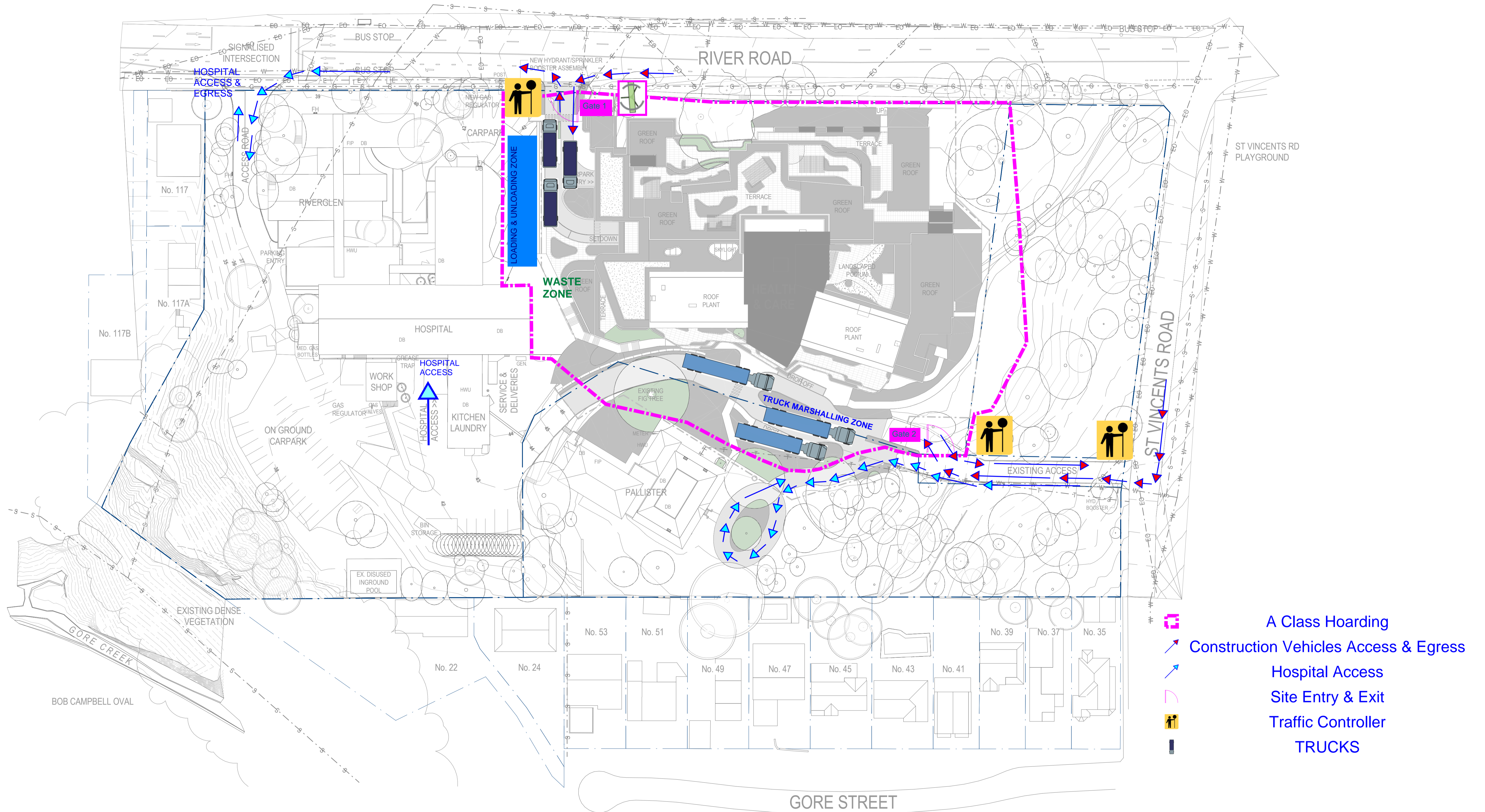


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STAGE 2 CONSTRUCTION TRAFFIC PLAN



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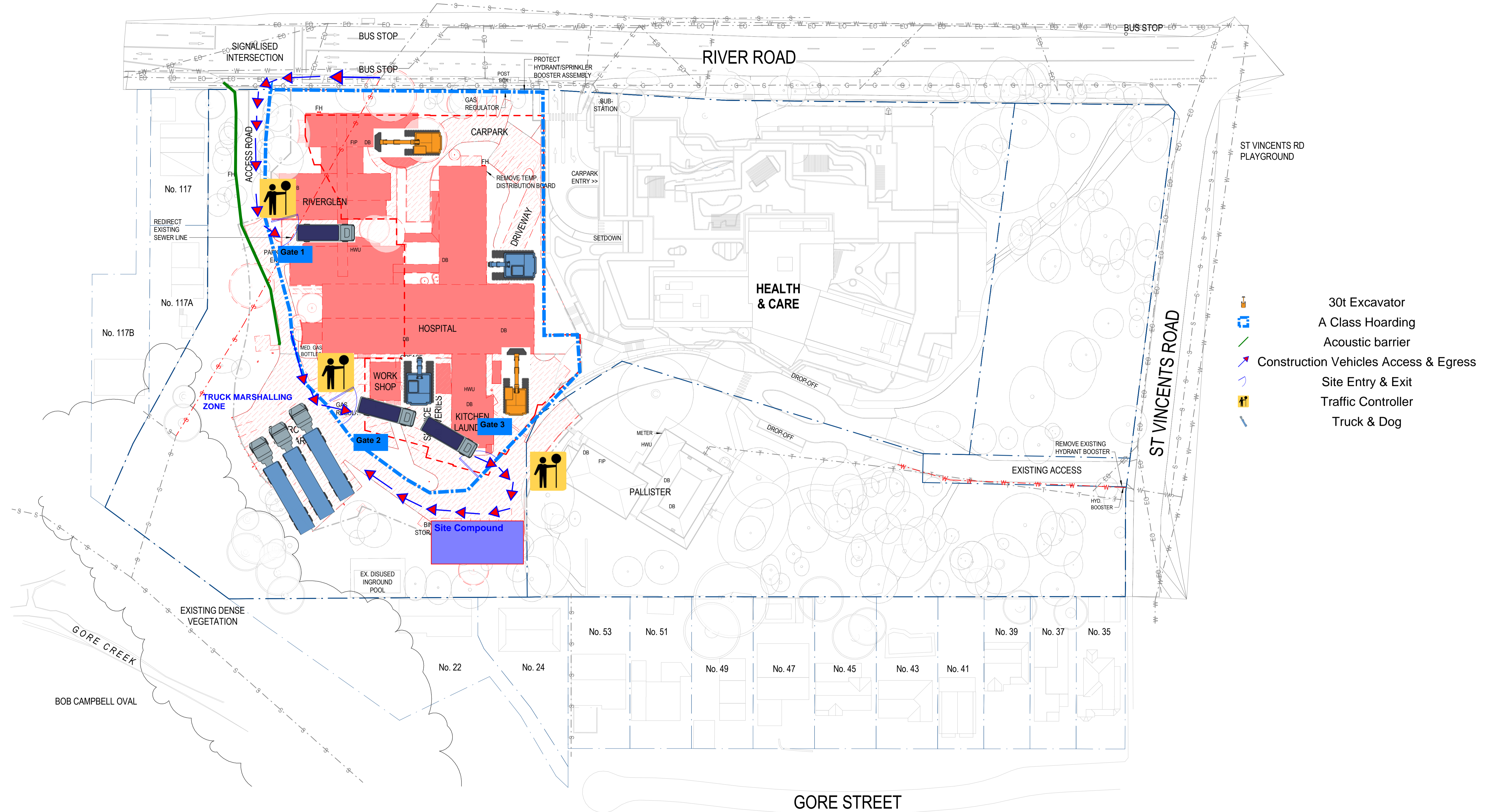
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STAGE 3 DEMOLITION AND EXCAVATION PLN



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1 : 500 @A1
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SITE DEMOLITION PLAN LEGEND	
	SITE BOUNDARY
	STAGING LINE
	EXTENT OF EXCAVATION (APPROXIMATE)
	EXISTING TO REMAIN
	DEMOLISHED (SURFACE)
	DEMOLISHED (BUILDING)
	EXISTING SERVICE TO REMAIN
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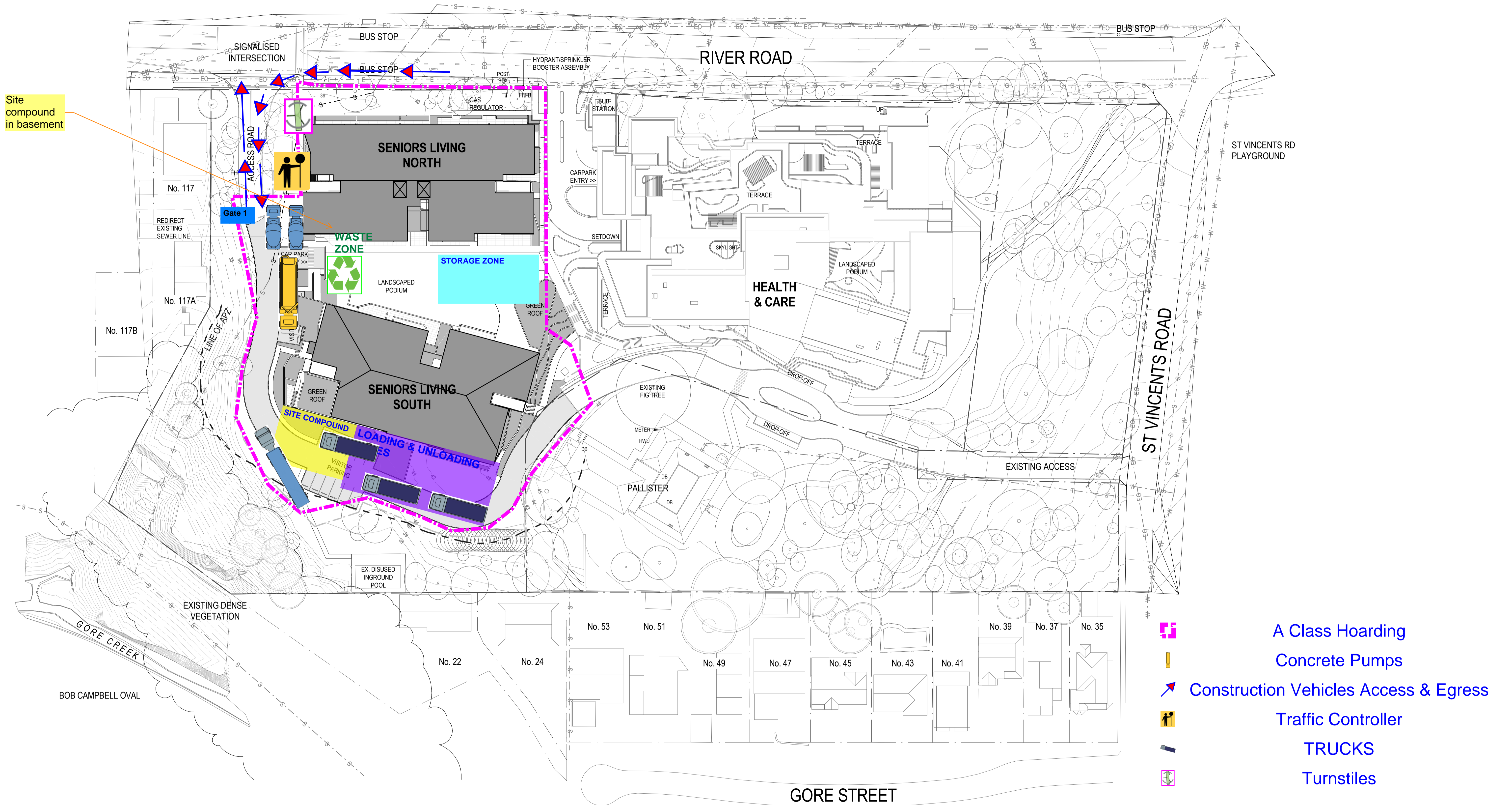
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STAGE 3 SITE MANAGEMENT



-  A Class Hoarding
-  Concrete Pumps
-  Construction Vehicles Access & Egress
-  Traffic Controller
-  TRUCKS
-  Turnstiles

0m 10m 20m 30m 40m 50m

1 : 500 @ A1
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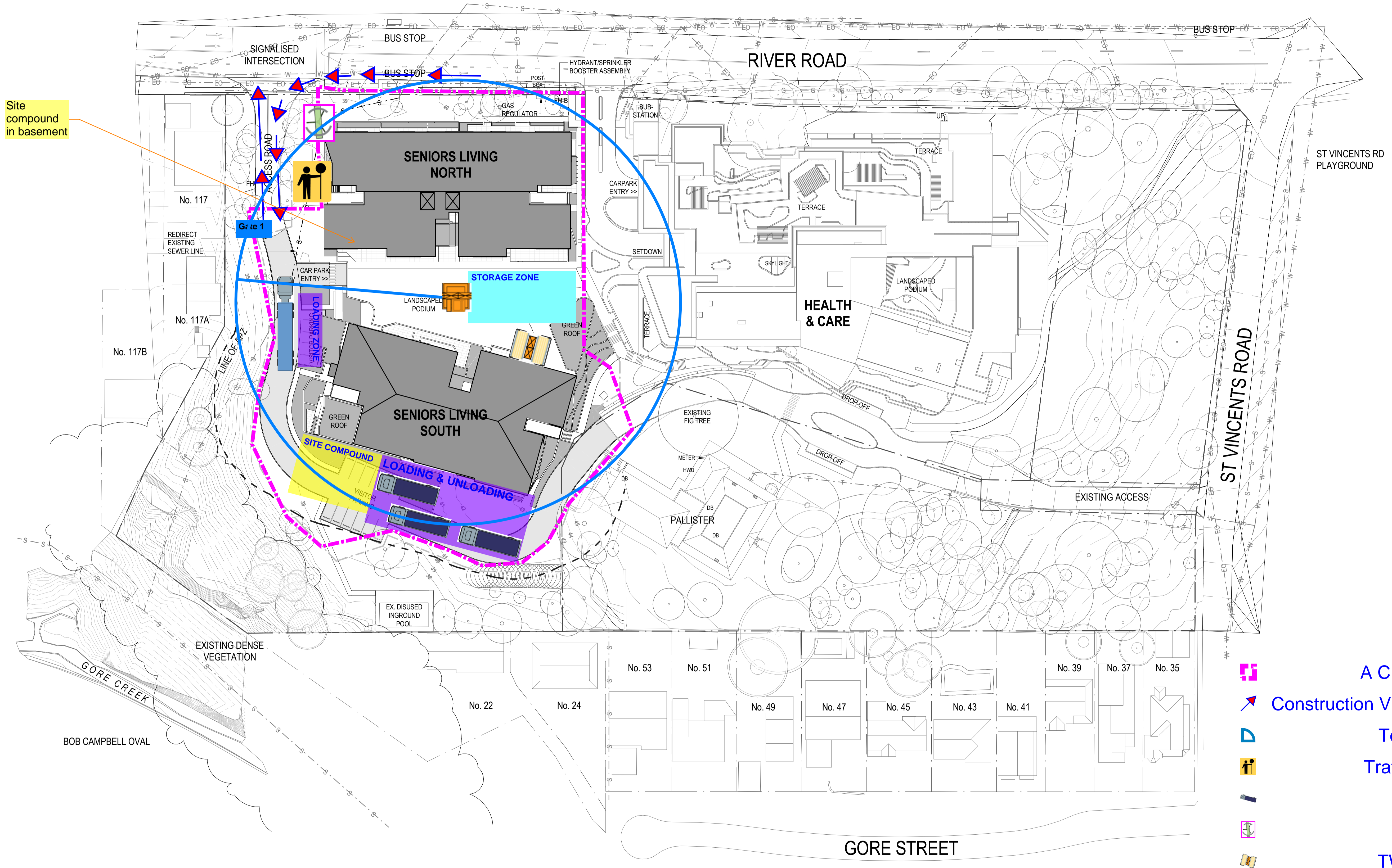
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STAGE 3 MATERIAL HANDLING



Site compound in basement



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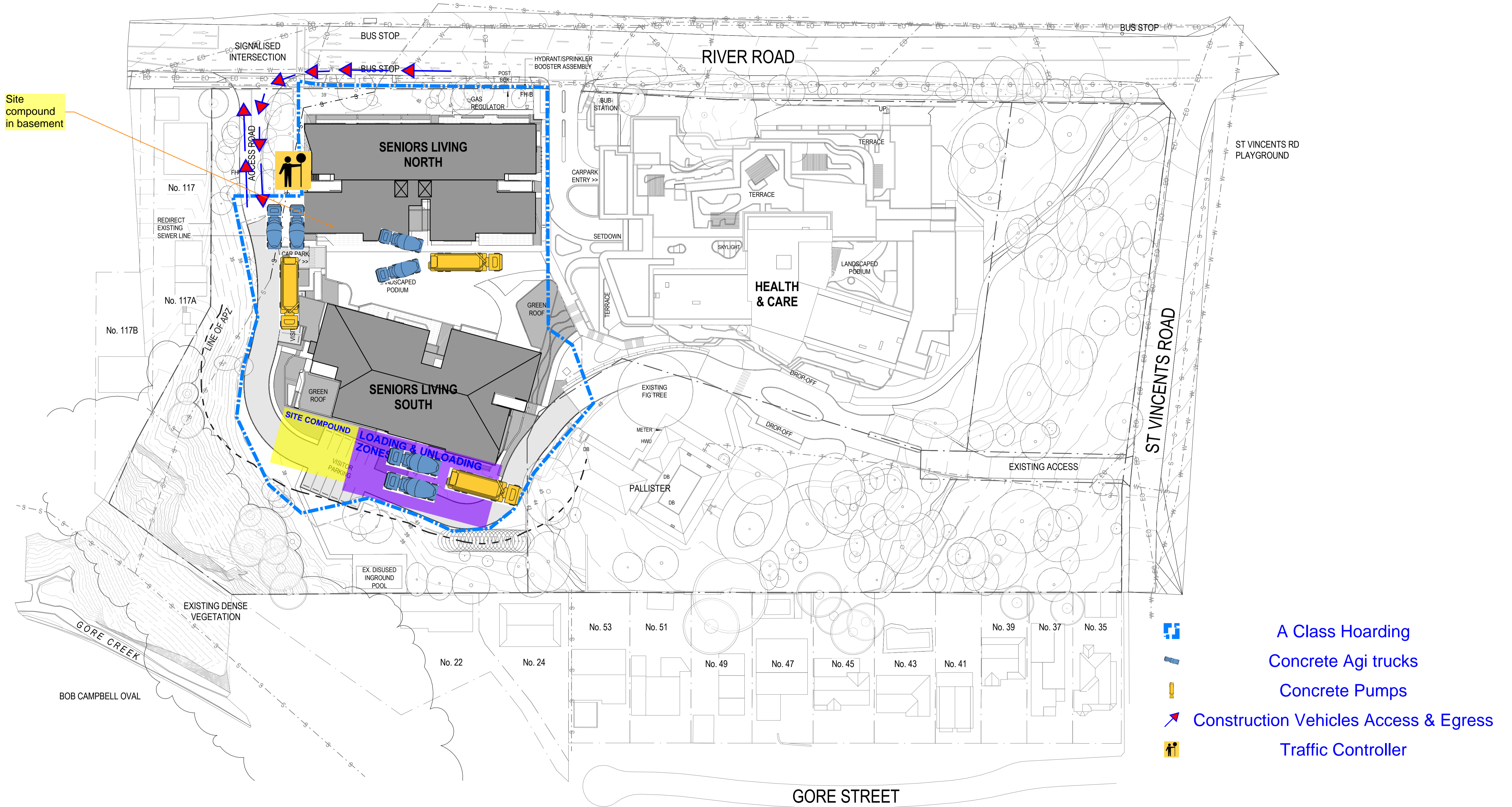
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STAGE 3 CONCRETE PUMPING ZONES



-  A Class Hoarding
-  Concrete Agi trucks
-  Concrete Pumps
-  Construction Vehicles Access & Egress
-  Traffic Controller



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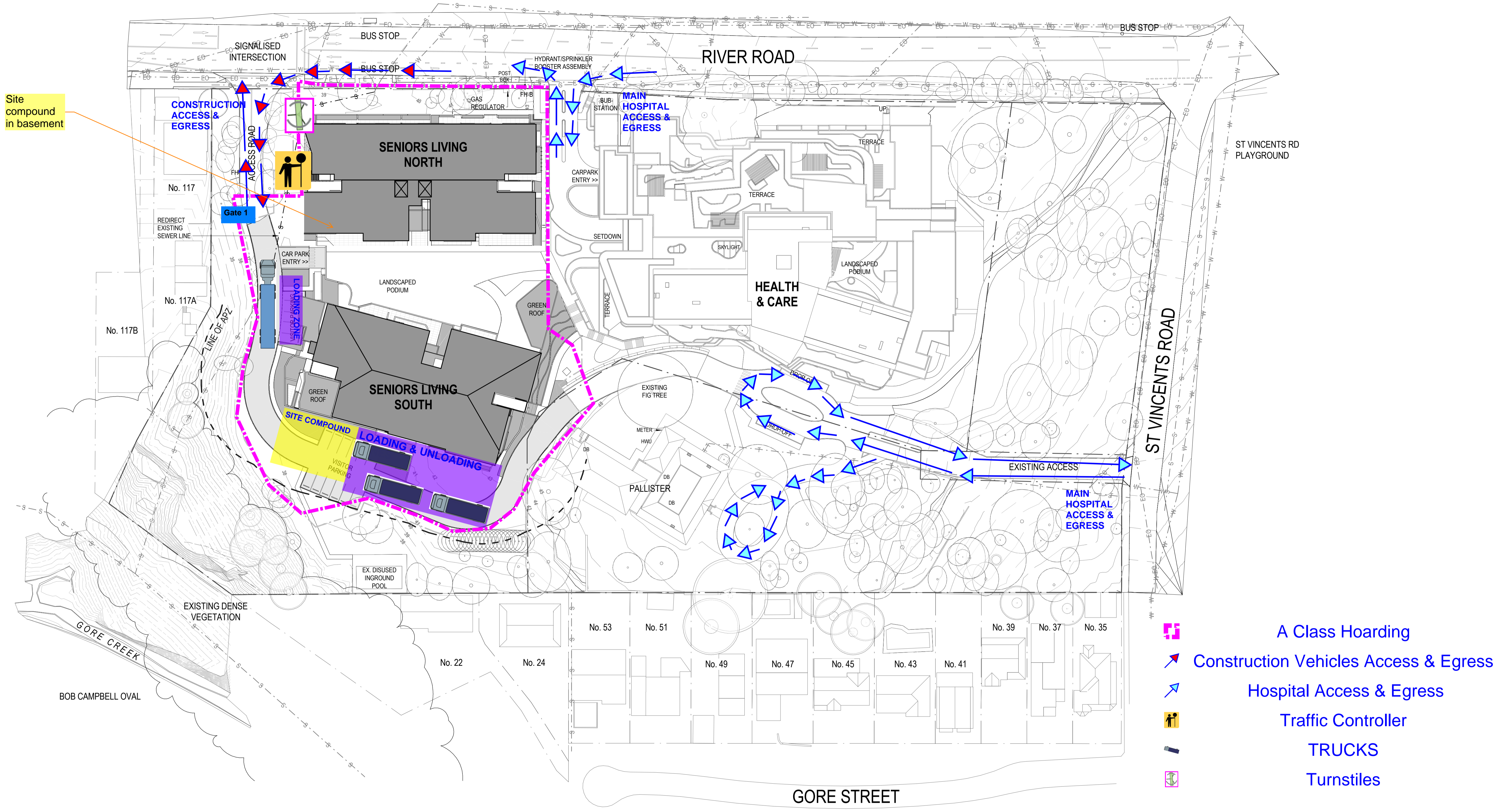
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STAGE 3 CONSTRUCTION TRAFFIC



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