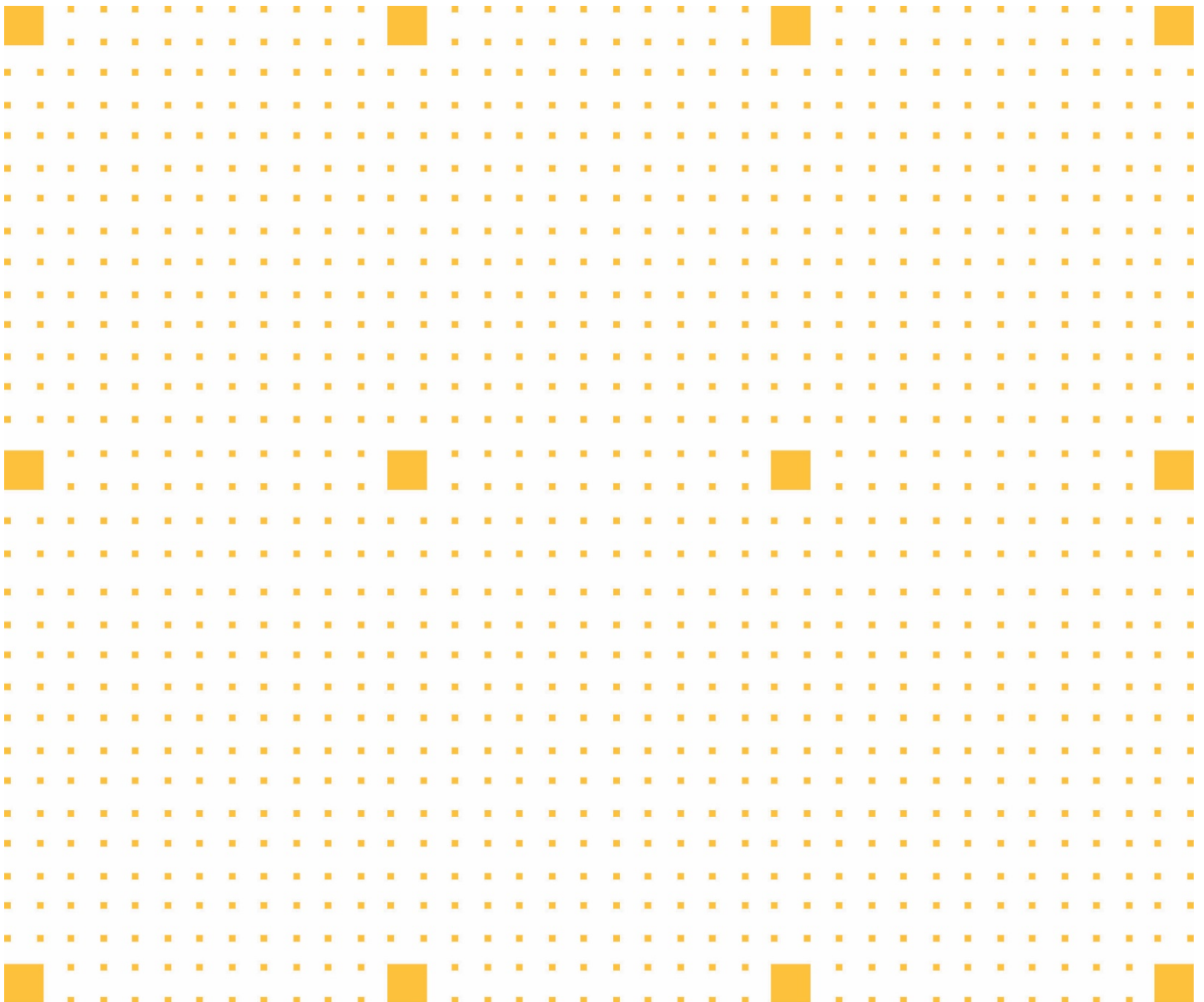


Construction Management Plan

Project: New High-Quality Classroom - Catherine Field Public School

Job No: SC126 ■ August 2019



Rev: B – August 2019

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permission of Hansen Yuncken Project Manager

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1 Introduction

1.1 Review & Approval

Position	Name	Sign	Date
Review			
Contractors Authorised Person	Matt O'Grady		
Project Manager	Zac Casimatis		
Snr Contracts Administrator	Ronaldo Bermudez		
Contracts Administrator	Paul Griffiths		
Site Manager	David Giewald		
Site Safety Officer	Andrew Wackwitz		
Project Engineer	Paul Cassimatis		
Services Engineer	Richard O'Sullivan		
Site Engineer	Alec Christofide		
Cadet			
Foreman			
Site Secretary/ Administration			
Approval			
Quality & Systems Manager	Pat Carnuccio		
Construction Manager	Dean Marcon		

1.2 Document Control

Revision	Description	Issued by	Issue date
A	Issued for the Concept Design Report Submission	MOG	July 2019
B	Issued for draft SSDA review	MOG	August 2019

2 Project Details

2.1 Proposed Main Works

The Construction Management Plan (CMP) has been developed to demonstrate that the proposed Works will be executed in accordance with legislated safety and environmental requirements with minimal inconvenience to stakeholders including neighbours and the general public.

Hansen Yuncken, appointed as Principal Contractor in accordance with NSW WHS legislation, complies with the requirements detailed in this Construction Management Plan, as well as the requirements of any other legislation or statutory bodies.

The proposed development is subject to State Significant Development Application (SSDA) approval and includes the design and construction of a Core 35 Public School inclusive of; teaching spaces, ancillary & sport spaces, hall, library, administration spaces, Canteen, special programs spaces and unique areas.

A combination of offsite and onsite construction techniques will be used to deliver a high quality, future focused innovative, state of the art school. Meeting the current and future school and community needs whilst complying with the requirements as detailed in the Educational Facilities Standards and Guidelines (EFSG) and providing a high level of end user satisfaction.

2.2 Site Description

The Catherine Field Public School site covers an area of approximately 2.0Ha, and is located within a growth precinct. The surrounding area includes newly constructed single dwellings to the west with undeveloped open space to the north, east and south.

The site is contained by O'Keefe Drive on the west, and future roads to the south and east. O'Keefe Drive provides the main access to the site for all construction vehicles, deliveries, workers, etc.

Refer to figure 1 for an aerial image of the site, and appendix 8.1 for the site plan.



Figure 1 Catherine Field Public School Site Location and Access Routes

2.3 Prior to the commencement of works

Prior to the commencement of Works on site, the following procedures will be undertaken but not limited to:

Undertake all requirements identified in the statutory approval conditions, this may include but not be limited to:

- Obtain a S109R certificate in accordance with the Environmental Planning and Assessment Act
- Ascertain all relevant project information, applicable standards, statutory requirements and conditions, including authorities having jurisdiction over the Works
- Obtain all relevant insurances, permits and approvals and pay all associated fees and deposits (e.g. payment of required long services levy)
- Undertake a dilapidation report that provides a photographic record of the site and surrounding areas (including approach roads) and properties
- Retain a copy of the SSD Authorisation on site at all times throughout the duration of the Works. The Principal will notify the Consent Authority of proposed variations to project requirements and conditions where they are practicably foreseeable.

3 Site Operations

The contractor is to limit disruption to the surrounding area and maintain a secure site. The site will be fully fenced with temporary steel fencing containing two clearly sign posted entry and egress points, with all compound areas, sheds and lay down areas located within the site.

The construction vehicle traffic inclusive of staff movements, heavy vehicles, deliveries, etc will be managed in accordance with the site-specific traffic management plan to reduce the impact to the surrounding area.

3.1 Work Health and Safety

The appointed contractor will be required to develop a site-specific Work Health & Safety (WHS) plan, which will outline the relevant WHS requirements, procedures and site safety rules that will be implemented to manage the works. WHS Management for Catherine Field Public School will be conducted in accordance with the NSW Work Health and Safety Act and AS/NZS4801 & OHSAS18001.

Examples of WHS management procedures that will be included the WHS management plan include;

- Unexpected finds protocol
- Emergency response procedures
- Drug and alcohol policies and testing
- Site inductions informing workers about site rules, policies, procedures, amenities and facilities
- Prestart meetings and tool box talks
- Appropriate site supervision and appointment of safety and first aid representatives
- Site signage and a safety notice board
- Work permits
- Provision of fire fighting equipment, emergency and first aid equipment and spill kits
- Safe Work method Statements required for all high-risk construction activities
- Hazardous and dangerous goods management

3.2 Legislative Requirements

The Works will be undertaken in accordance with, but not limited to, the State Significant Development (SSD) Consent, the relevant provisions of the National Construction Code and legislations namely the Environmentally Planning and Assessment Act, the Work Health and Safety Act and any other legislation so defined or implied in the contract documentation.

3.3 Hours of Operation

The hours of construction including delivery of materials to and from the site shall be restricted to between (or as defined by the conditions of SSD Consent):

- Monday to Friday inclusive 7:00am to 6:00pm.
- Saturday 7:00am – 3:00pm
- No work on Sundays and Public Holidays

Out of hours Works may be required from time to time as well as deliveries of heavy machinery, and materials may be required out of the proposed hours of operation to conform to the overriding requirements of the Roads & Maritime Services (RMS). This should be approved by the Principals Authorised Person.

3.4 Public Safety, Amenity and Site Security

Appropriate temporary steel fencing (as specified in Australian Standards and WorkCover requirements) will be installed to prevent public access and to maintain security for the Works area. No hoardings are required for this project.

Site access for vehicles and pedestrians will be via O'Keefe Drive. Two Vehicular access/egress gates will be installed providing vehicular access for workers, visitors and deliveries. Vehicle gates will be clearly sign posted to allow drivers to easily locate the correct gate and enter the site. Pedestrian gates will be controlled to ensure that only approved personnel enter the site, preventing unwanted access. Gates will be locked with a chain and pad lock after hours and managed by the head contractor in accordance with the traffic management plan. A daily inspection of the fence and gates will be undertaken ensuring it is maintained for the duration of the project.

A statutory signage board will be located on the fence outside the main gate, providing the public with information on the site including; builder name and licence number, emergency contact details and site safety requirements.

Machinery, plant, equipment, tools and materials will be stored within the site confines, outside of construction hours all equipment will be made secure.

Storage compounds, site sheds, lay down zones, concrete pumping and crane set up locations will all be within the confines of the site as indicated on the site layout plan located in appendix 8.1.

A shaker grid will be located at the main gate to prevent construction vehicles from tracking dirt outside of the site's compounds. Shade cloth will be installed on all boundary fencing to suppress dust and assist with maintaining the sites privacy.

Refer to the site layout plan located in appendix 8.1 for more information regarding site security.

4 Environment and Amenity

The Head Contractor undertaking the Works will be required to submit for review an Environmental Management Plan (EMP) to ensure that all elements of the EMP meet all statutory requirements.

The environmental performance of the Head Contractor will be monitored by the Project Manager throughout the Works. The following specific environmental management principles will be implemented on site.

4.1 Noise and Vibration

All practicable measures will be taken to reduce the noise arising from the Works. Noise from the site shall not exceed the limits set out by the Environmental Protection Authority (EPA). No machine work will occur outside approved working hours (refer item 3.2) unless approval has been given by the consent authority.

The following measures are proposed to reduce noise from the construction works;

- Promote clear understanding of ways to identify and minimize noise from construction works
- Focus on applying all feasible and reasonable work practices to minimize construction noise impacts
- Provide flexibility in the selection of site-specific and reasonable work practices to minimize noise impacts;
- Encourage construction work to be undertaken within approved standard hours where reasonably practicable with noise that is audible to other premises. Approval is required for Works undertaken outside standard hours; and
- The use of noise reduction techniques including, but not limited to, barriers, enclosures and silencers shall be employed to ensure compliance with construction noise criteria.

The noise mitigation treatment proposed by the Head Contractor will be included in the detailed Construction Management Plan.

4.2 Dust

Management of dust prevention strategy is to be developed by the Head Contractor, detailed in the Construction Management Plan, liaise with the project stakeholders and acceptable to the Project Manager.

Examples of dust management practices that will be implemented during the Works include;

- Shade cloth installed on the perimeter fence
- Haulage trucks entering and leaving site will have their loads covered appropriately
- Monitoring of weather conditions (including wind)

- Wherever practical implement a wet process for concrete sawing, coring and grinding
- Where not practical to use a wet process for concrete sawing or grinding direct dust extraction to a vacuum is to be used
- Materials on site are to be stockpiled and stored appropriately
- Limit the use of soil stockpiles, when stockpiles are required they are to be watered down

4.3 Odour Control

All plant and machinery involved in the Works will be regularly serviced and checked for exhaust emissions and catalytic converters.

4.4 Vegetation Protection

The Head Contractor will be required to prepare a detailed site-specific Construction Management Plan. This Plan will need to demonstrate the measures that will protect trees and vegetation being retained under the development works. Vegetation protection should be in accordance with Australian Standard 4970-2009, Protection of Trees on Development Sites. Where branch pruning Works are required, Works should be carried out in accordance with Australia Standard AS 4373-2007- Pruning of Amenity Trees and the Works are to be undertaken by an experienced and qualified arborist.

4.5 Stormwater, Erosion and Sediment Control

As a minimum, the erosion and sediment controls for the Works shall be designed, installed and maintained in accordance with the requirements of Managing Urban Stormwater: Soils and Construction "The Blue Book" 2004 (4th edition) and/or details provided by project engineering consultants.

The Head Contractor will be required to prepare a detailed Stormwater Management Plan which will cover all aspects of stormwater and sediment management and control during construction.

Examples of sediment management practices that will be implemented during the Works include;

- Storm water pits are to be covered with geotextile fabric and sand bags
- Crossovers entering / exiting the site will be regularly swept
- Shaker grid will be installed at the site exit point
- Silt fences installed where required to prevent sediment runoff from leaving the site and entering the surrounding environment

4.6 Storage of Dangerous Goods

Dangerous goods (such as petrol, diesel, oxy-acetylene, oils, glues etc.) will be stored in a lockable compound with sufficient ventilation, in accordance with relevant codes of practice and standards. Material safety data sheets on all flammable and potentially harmful liquids will be provided by the Head Contractor undertaking the Works.

4.7 Waste Management / Recycling Principles

The main source of waste associated with the construction works would be demolished material (bricks, concrete, steel etc.) resulting from the demolition and refurbishment of existing buildings. It is likely that some excess building materials will be produced due to the construction work such as miscellaneous waste associated with packaging and transport of plant and equipment and various other manufactured items forming part of the augmentation works. Waste generated as a result of construction will be minimised, recycled, reused or recovered, where practical. As there is no demolition required for this project the main source of waste for the construction industry is not applicable.

The Head Contractor will be required to achieve compliance with the EPA guidelines.

The following measures are encouraged in the management and reduction of waste to minimize the loss of natural resources and landfill space;

- Emphasise the importance of recycling and waste reduction
- Reduce the amount of waste material produced on the project by ensuring that only enough materials required to perform the works are ordered
- Any excess materials from particular work areas are to be retained and incorporated into other work areas where practical
- Encourage "just in time" delivery of construction materials (minimum storage on site) to reduce the potential of loss / waste due to damage prior to usage
- Encourage the use of recycled materials where it is reasonably practical
- Minimise the use of packaging materials and recycle packaging materials where possible
- Waste concrete to be sent to a concrete recycling plant where possible
- Separate removed native vegetation from general construction waste, mulched and stockpiled for re-use
- Non-recyclable general waste will be disposed of at an approved waste disposal facility

5 Traffic Management

As part of the Construction Management Plan (CMP), the Head Contractor is required to submit a Construction Traffic Management Plan for approval prior to commencement of the works. The CMP will detail site access, pedestrian protection measures and all associated vehicle movements which will be restricted to the permitted working hours of the site.

5.1 General Requirements

In accordance with RMS requirements, all vehicles transporting loose materials will be required to have the entire load covered and / or secured to prevent any large items, excess dust or debris being deposited onto the roadway during travel to and from the site. The Head Contractor will induct all subcontractors and suppliers to ensure that the procedures are met for all vehicles entering and exiting the construction site. The Head Contractor will monitor the internal and immediate external roads leading to and from the site and take all necessary steps to clean any debris deposited by construction vehicles.

Vehicles in transit travelling to, from and operating within the site shall do so in a manner which does not create unreasonable or unnecessary noise or vibration. All vehicles should enter and leave the site in a manner that eliminates interaction between pedestrians and public and prohibits reversing.

Public roads and access points will not be obstructed by any materials, vehicles, refuse skips or the like under any circumstances.

5.2 Construction Worker Parking

Construction workers will be primarily parking within the site compound, refer to figure 2 for the proposed construction vehicle route. Contractors are also encouraged to carpool or utilise public transport services within the area.

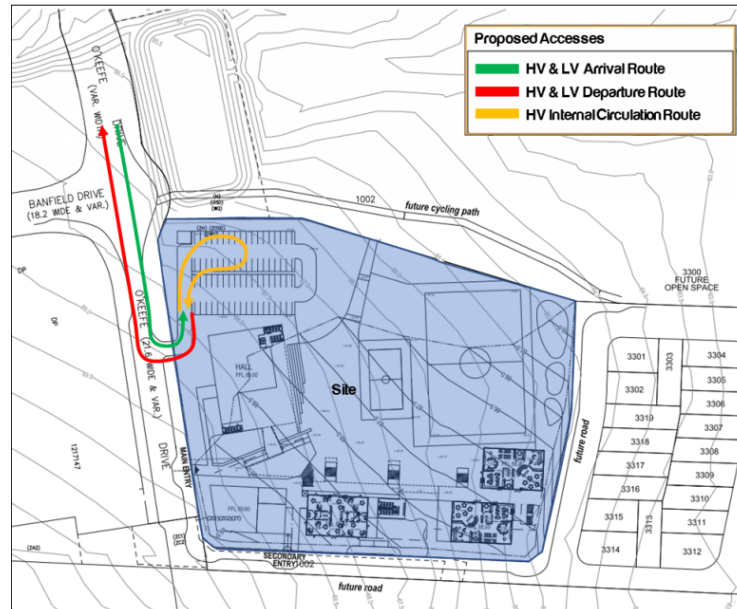


Figure 2 Construction vehicle Route

5.3 Construction Traffic Impacts

A construction traffic management plan will be prepared by the Head Contractor prior to Works commencing on site.

Light vehicle traffic is generally associated with construction staff movements to and from the site. The workforce arrival and departure periods (6:30-7:00am and 6:00-6:30pm) represent the peak construction traffic periods. Heavy vehicles will generally arrive and depart outside of the peak periods, and therefore not contribute to the peak construction traffic periods.

According to the Traffic Impact Assessment located in the Hansen Yuncken Traffic Management Plan, it is estimated that construction traffic flows will not result in adverse impacts on the operational capacity of the surrounding road network.

This overview of construction traffic impacts associated with construction activity aims to ensure the safety of all workers and road users in the vicinity of the construction site. The key vehicle management principles are outlined below;

- To restrict construction vehicle movements to designated routes to/ from the site and to prioritise these as required
- To establish a safe pedestrian environment at all times
- To inform the Head Contractor and set the ground rules for managing construction traffic
- A traffic management plan would be developed and incorporated into the Construction Environmental Management Plan (CEMP)
- Disruption to all road users during the construction period would be kept to a minimum

- Construction and delivery vehicles entering or leaving the site would use arterial roads wherever possible. Vehicle deliveries would be restricted to nominated times within the approved Construction Traffic Management Plan (CTMP)
- A detailed CTMP would be developed by the contractor

5.4 Pedestrian Protection

The development is expected to create minimal disruption to pedestrian movements within the area. However, some external construction activities will occur on O'Keefe Drive during the project. The pedestrian footpath will be managed by an accredited traffic controller during these works.

During construction of the temporary and final crossovers, pedestrians will be directed around the construction site by the installation of temporary fencing and management of an accredited traffic controller.

The existing footpaths shall always remain open as the construction site does not interfere with pedestrians or cyclists, with efforts to minimise impacts where possible. This may include staged construction of driveway crossovers such that suitable pedestrian connection is available.

6 Appendices

6.1 Appendix 1: Site Plan



Legend of Symbols

- External Perimeter Site Boundary Fencing
- Vehicle Gate
- Pedestrian Gate
- HY Statutory Project Site Signage Board
- Vehicle Access into Project Site
- Vehicle Egress out of Project Site
- Site Personnel Entry / Exit / Travel Routes
- Emergency Services Vehicle main Access to / Egress from Project Site
- On-Site Vehicle Parking
- Site personnel travel routes
- Fire Fighting Equipment
- Emergency Response push button (Nurse Call)
- Spill Kit
- Delivery Laydown Zone & General Storage
- Main Site Bins / resource recovery
- Site Emergency Evacuation Muster Point
- Site Offices Hansen Yuncken
- Site Toilets (m=male f=female)
- Site Lunchrooms
- First Aid Room with Defrib
- All whether Access Path
- Vehicle Shaker Grid

AMMENDMENTS				
REV	BY	DATE	DESCRIPTION	

HANSEN YUNCKEN

THIS DOCUMENT FORMS PART OF HANSEN YUNCKEN'S SITE MANAGEMENT & WHS PLANNING FOR EAST LEPPINGTON PUBLIC SCHOOL. THIS DOCUMENT IS AN APPENDIX TO THE CMP

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CATHERINE FIELD PS
NHQC2

DRAWING NAME
SITE LAYOUT PLAN

PROJECT NORTH

0 5000 10000 15000 20000 25000 30000

SCALE 1 : 500 @ A1

DRAWN	CHECKED	VERIFIED	DATE
LM	PT	MO	NOVEMBER 2019

DRAWING NUMBER	PROJECT CODE	SCH. REF.	DISC.	TYPE	SERIES#	REVISION
NHQC2 - CF - PM - DWG - A						A