



Preliminary Construction Management Plan

23rd March 2017

Oran Park High School Development
and Oran Park Public School Expansion



smart people
smarter solutions

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Revision status

Version	Date	Amended By	Endorsed By	Amendment Notes
A	23 March 2017	Mark Turner	Mark Turner	Updated to incorporate TOA comments

Document Control

Prepared by:	Nigel Head	Date:	23 March 2017
Approved for issue:	Mark Turner	Date:	23 March 2017



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1. Introduction

The Department of Education (DoE) proposes engaging a Head Contractor to expand the existing Oran Park Public School and to construct a new High School immediately adjacent on the same site (the Works).

Upon appointment the Head Contractor will be required to prepare a comprehensive Construction Management Plan (CMP) detailing the methodology for carrying out the Works.

This Preliminary Construction Management Plan has been prepared, on behalf of DoE, for inclusion in the Plans and Documents noted in the NSW Department of Planning and Environment (DPE) Secretary's Environmental Assessment Requirements (SEARs) for Application Number SSD 7968.

2. The Site

The site is owned by DoE and is located at 400F The Northern Road, Oran Park (Lot 1,000 DP 1164435).

The site is bounded by Holden Drive to the south, South Circuit to the west, Dick Johnson Drive to the north and Julia Creek to the east, covering an area of approximately 8.92 hectares.

A site locality plan is presented in *Figure 1* below.

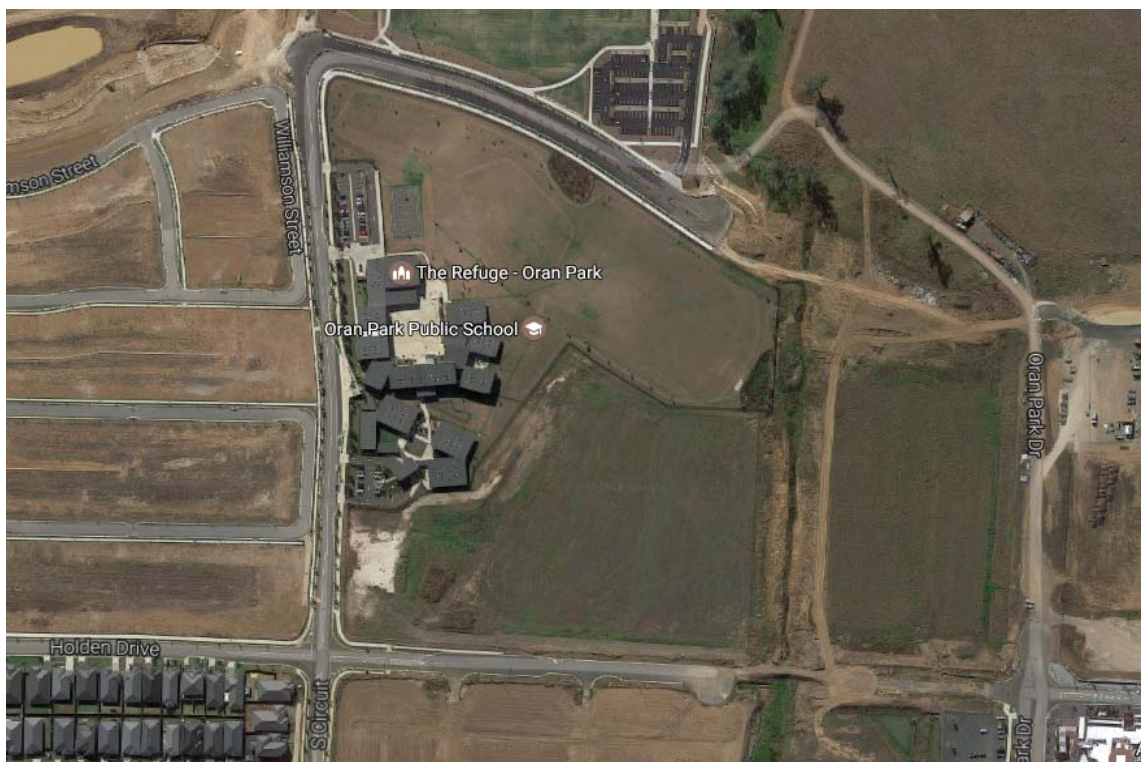


Figure 1 Existing Oran Park Public School and Vacant Site for Oran Park High School

Oran Park is encapsulated within the South-West Growth Centre which has been designated by the NSW Government for development over the next few decades. As such, the site is predominantly surrounded by existing and planned low and medium density residential development.

The proposed Oran Park High School is a greenfield site dedicated to the development of the school. The initial stage of Oran Park Public School, immediately adjacent to the High School, was established in 2014. Existing palisade fencing demarcates the undeveloped area of the site from the existing Public School.

There is two-way traffic on South Circuit, Holden Drive and Dick Johnson Drive.

Holden Drive and Dick Johnson Drive are designed to extend from South Circuit to Oran Park Drive. However the work is being completed in stages. The initial stages (ie: joining South Circuit) have been completed and the indicative date for completion of the remaining stages, through to Oran Park Drive, is late 2018.

3. The Works

The Works include:

- construction of the new Oran Park High School for up to approx 2,000 students; and
- expansion of the existing Oran Park Public School for up to approx 1,000 students.

4. Consultation

The planning and implementation of the Works will be completed in accordance with all relevant requirements of Statutory Authorities, including:

- NSW Department of Planning and Environment;
- NSW Environmental Protection Authority;
- Sydney Water;
- Roads and Maritime Services (NSW);
- Transport for NSW;
- SafeWork NSW; and
- Camden Council

DoE is also undertaking extensive ongoing consultation with the schools and the wider community to inform them and seek their feedback.

5. Prior to the Commencement of the Works

Prior to the commencement of the Works, the Head Contractor will:

- ascertain all relevant project information, applicable Standards, Statutory requirements and Conditions, including all Authorities having jurisdiction over the Works;
- obtain all relevant insurances, permits and Approvals and pay all associated fees, including any outstanding Long Service Leave Levies; and
- ensure a copy of the DPE SSD Approval is filed on site for reference throughout the Works.

6. Site Operations

6.1 Site Establishment

The Head Contractor will provide and maintain all necessary temporary facilities required for the safe and secure performance of the Works, including, but not necessarily be limited to:

- first aid facilities;
- hoardings
- storage compounds;
- site administration facilities;
- cranes;
- site amenities;
- access equipment, including scaffolding, barriers, platforms, ladders, etc;
- construction plant;
- temporary driveways; and
- emergency vehicle access.

6.2 Hours of Operation

Construction of the Works is to be confined to the hours of 7.00am to 7.00pm from Monday to Friday and 8.00am to 5.00pm on Saturday. Works will not be permitted outside of these hours nor on public holidays unless express permission is obtained from all relevant Authorities.

Such permission may be sought where special requirements exist e.g. for oversized deliveries.

6.3 Construction Program

The following shows the indicative program milestone dates for the construction works.

Site Establishment	November 2017
Construction	November 2017 to September 2019
Commencement of operations	Day 1, Term 1, 2020

6.4 Public Safety, Amenity and Site Security

Hoarding/fencing will be installed as required to optimize public safety and to prevent public access to, and maintain security of, the Works.

These measures may be staged throughout the Works so as to minimize disruption to the operations of Oran Park Public School.

A preliminary fencing plan is presented in Preliminary Site Establishment Plan (refer to Annexure A). Fencing demarcating the Public School and the High School will be retained throughout the Works. However some reconfiguration will be required from time-to-time to facilitate the connection of the Works to the existing Public School buildings.

7. Environment and Amenity

The Head Contractor will prepare and implement a comprehensive Environmental Management Plan (EMP) to ensure compliance with all relevant Statutory requirements and the requirements of DoE.

The following environmental management principles will be implemented:

7.1 Noise and Vibration

All practicable measures will be taken to reduce the noise and vibration arising from the Works. Noise and vibration shall not exceed the limits set out by the Environmental Protection Authority.

Such measures may include:

- Identifying demolition, excavation and construction noise and vibration sources or scenarios that require engineering controls or administrative management;
- Promoting clear understanding of ways to identify and minimize noise and vibration from construction works;
- Focus on applying all feasible and reasonable work practices to minimise construction noise and vibration impacts;
- Providing flexibility in the selection of site-specific and reasonable work practices to minimise noise and vibration impacts;
- Allowing work to be carried out only within the approved standard hours and obtaining approval from all relevant Authorities for works required to be undertaken outside standard hours; and
- Using noise and vibration reduction techniques, including barriers, enclosures, silencers and the like to ensure compliance with construction and demolition noise and vibration criteria.

As part of the noise and vibration mitigation treatment for the project, the Head Contractor will be responsible for the checking of compliant maintenance regimes and Statutory supervision of all equipment.

Proposed noise and vibration mitigation treatments will be included in the Head Contractor's Construction Management Plan.

7.2 Dust Control

Appropriate dust mitigation and suppression techniques will be applied to ensure dust levels are compliant with the requirements of all relevant Authorities.

Additional precautions that will be implemented during the Works include effective covering of haulage trucks and monitoring of weather conditions (including wind).

Management and contingency plans will be developed and implemented to prevent any foreseeable impacts from dust.

7.3 Odour Control

The amount of odour generated by the Works will be influenced by the extent of open excavation stockpiles, weather conditions and the quality of excavated material.

Odour management will address the following key issues:

- Location and cause of odour;
- Minimisation of odour and its source;
- Odour management response procedures; and
- Implementation of an odour monitoring regime.

If air quality is considered to be unsatisfactory, the Head Contractor will conduct appropriate works to rectify the ambient air quality to an acceptable standard within the shortest time practicable.

7.4 Vegetation Protection

The Head Contractor's CMP will detail the measures that will be implemented to protect trees and vegetation being retained throughout the Works, including tree protection barriers and the like.

7.5 Sediment and Erosion Control

Any discharges from the site will be strictly controlled to ensure hazardous materials and contaminants are contained in accordance with the requirements of all relevant Authorities.

The site will be continually cleaned of rubble to minimise possible sediment flow during rainfall periods.

Stormwater kerbs and drainage lines will have sediment controls in the form of hay bales, sedimentation socks or the like.

Stormwater grate inlets surrounding the site will be covered with geotextile fabric to allow water to enter into drains whilst retaining sediments.

Should external surface run-off flow into works areas, it may need to be diverted to reduce sediment transportation. All drainage control devices will be regularly checked and maintained, particularly during heavy rainfall periods.

8. Construction Traffic Management

8.1 Construction Access and Vehicular Routes

The main access to the construction site will be from Holden Drive. This access is located away from the existing Oran Park Public School as well as the existing vehicular and pedestrian entries and exits to that School ensuring adequate separation of construction traffic from the operations of the existing Oran Park Public School.

The recommended route for construction traffic to reach Holden Drive is via Oran Park Drive. However, the connection road between the site and the Town Centre is not due for completion until April 2018. If it is not complete, then the route to the main access at Holden Drive will be via Peter Brock Drive and South Circuit. Both of these routes provide safe vehicular access to the site and minimize the potential conflict between construction traffic and the operations and traffic related to the existing Oran Park Public School.

The secondary access to the site is proposed to be from South Circuit, adjacent to the primary school. Given the proximity of this access to the existing Oran Park Public School, the use of this access point will be carefully managed to ensure the safety of pedestrians and other vehicles, particularly during school start and finish times. During the School start and finish peak times it is recommended that appropriate traffic control be implemented to ensure the safety of the children, parents, carers and teachers.

Refer to the drawing CTM1 in Annexure B for pictorial details of the proposed construction traffic management plan which includes vehicular routes and accesses into and out of the site.

8.2 Construction Vehicles and Truck Movements

Construction vehicles types will range from small utility vehicles (utes), 12.5m heavy rigid vehicles to 19m articulated vehicles for larger material deliveries. Specialist equipment such as excavators, rollers, cranes and other heavy equipment will be delivered via truck float at a time when there is the least amount of traffic within the area to ensure minimal disruption.

Truck movements will occur throughout construction, with delivery of materials occurring on a daily basis, throughout the day. The largest number of truck movements is typically during concrete pours, when up to 40 trucks a day could be attending the site.

Due to the scale of the project, contractors' vehicles will generally arrive in the morning and leave at the end of the working day. Additional movements of these vehicles may occur at lunch, with groups of contractors driving to the town centre to purchase food and drinks. Parking for contractors' vehicles will be provided on site with entry and exit to the parking from the main access on Holden Drive. Based on 80 to 100 contractors on site on any one day, temporary parking will be provided for approximately 65-80 contractors' vehicles.

8.3 Pedestrian and Traffic Safety

Vehicular access points into the site has been positioned to minimise the impact to the existing operations of the existing Oran Park Public School to ensure adequate separation of vehicles and pedestrians where possible. All vehicles leaving the site and crossing a pathway will be required to be going forwards (and not reverse). At times when large pedestrian movements occur at a site access, such as at school start and finish times, a traffic controller will be provided at the gate when vehicles arrive or leave.

Pedestrian and cyclist routes past the site will be protected during construction where required. Fencing and/or hoarding in accordance with the relevant standards will be provided around the site to provide protection and prevent unauthorised access. Where works are required in the public domain, safe routes will be provided around the worksite, which will require a site specific management plan.

9. Construction Waste Management

Refer to Preliminary Waste Management Plan Section 2 Construction.

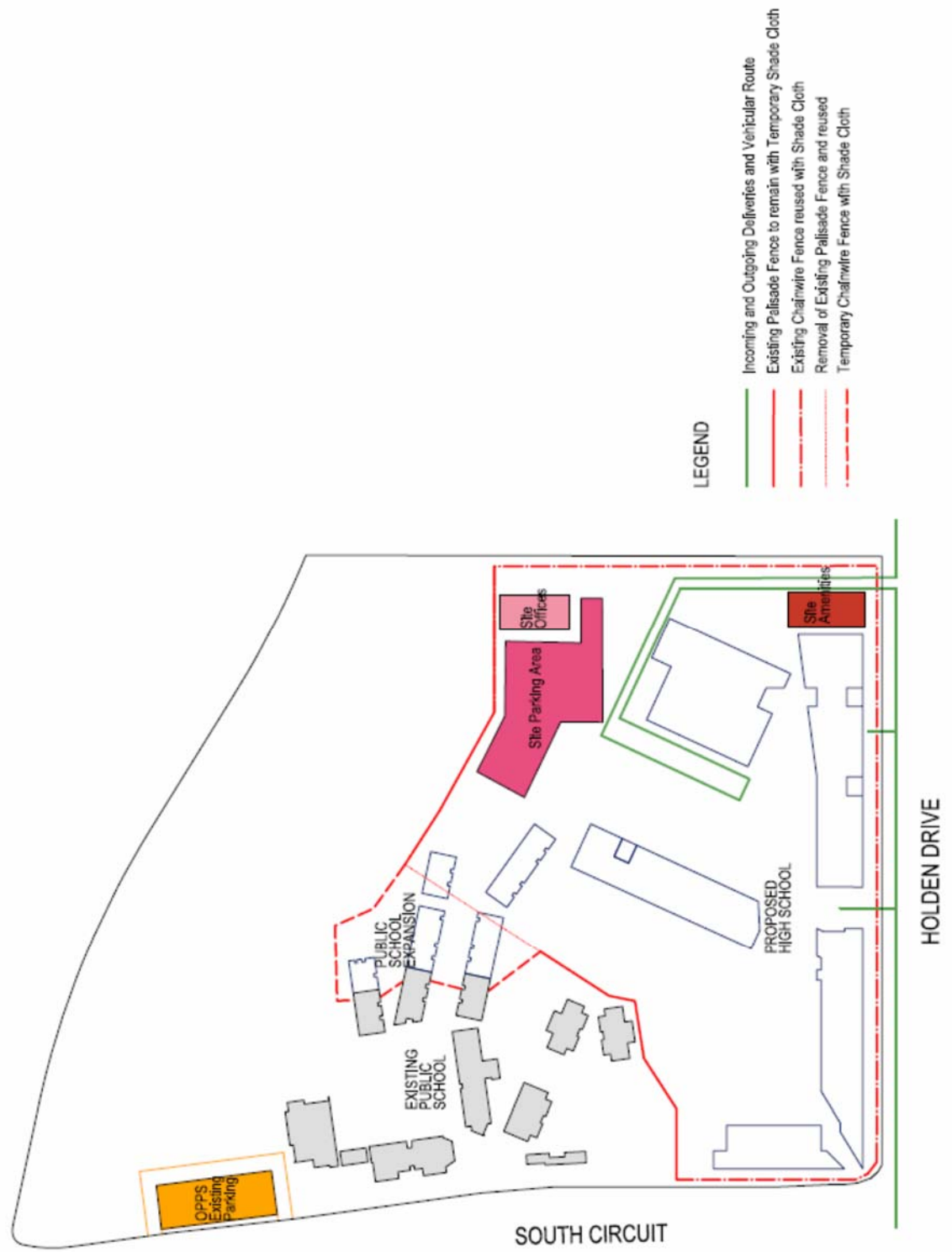
10. Services Disconnection and Shutdowns

In general, the following principles will be adopted for services shutdowns or when disconnecting services:

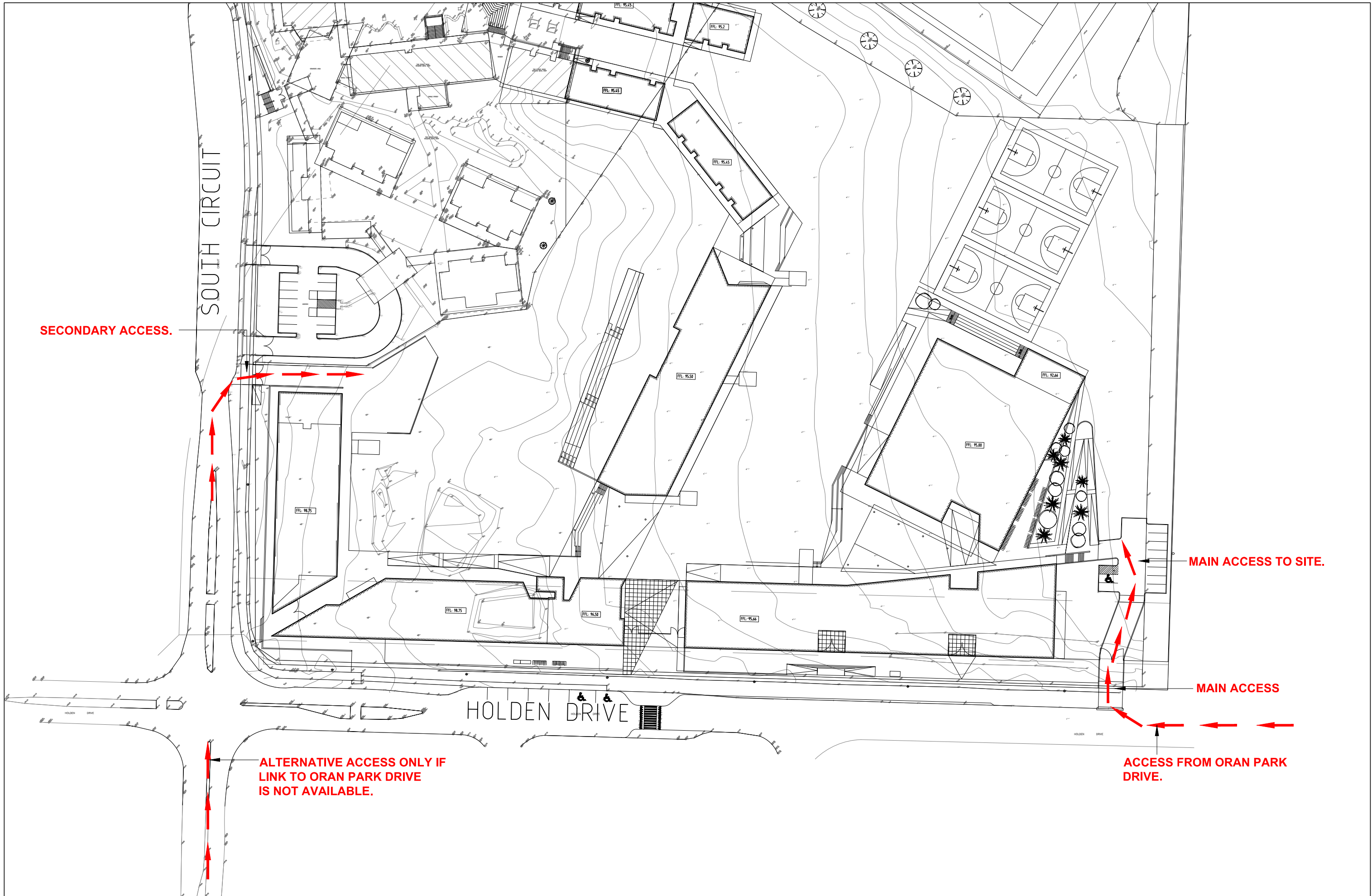
- Services impacts on the existing facility will be investigated with full coordination, development and input with the Client and all relevant Stakeholders;
- Impacts on Oran Park Public School will be kept to a minimum, which may result in 'out of hours' being required;

- All relevant Statutory Authorities will be consulted prior to the Works commencing to ascertain lead times and correct termination locations;
- All terminations will be undertaken in accordance with DoE requirements;
- All termination will be undertaken by suitably licensed contractors;
- A minimum of two weeks notice is to be provided to any third party that will be impacted by any service disruption and disruption is to be minimized; and
- For locating and dealing with existing services, the Head Contractor is to comply with the requirements of GC21 Edition 2 Preliminaries (Existing Services).

Annexure A Preliminary Site Establishment Plan



Annexure B Preliminary Construction Traffic Management Plan



No.	Date	Description	Ver.	Appr.
A	25.01.17	ACCESS DETAILS AMENDED		
B	08.02.17	NOTE ADDED		
C	14.02.17	NOTE REMOVED	KEC	CMW

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ORAN PARK
HIGH SCHOOL

CONSTRUCTION TRAFFIC
MANAGEMENT PLAN

Date	JANUARY 2017	Approved	CMW	Verified	KEC	Prepared	JK
Scale @ A1	1:500		20.01.17		20.01.17		20.01.17
Job number	16-158	Drawing number	CTM1	Amendment	C		