



CONSTRUCTION MANAGEMENT PLAN

SUBDIVISION AT 20 & 34 PARK AVE, NORTHCOTE

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13 January 2016

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INTRODUCTION

Scope

This Construction Management Plan covers the extent of the works required for the site at per the stamped approved issued for construction Catobolam plan set 31703, including:

- Sediment and erosion control measures
- Temporary haul roads
- Topsoil stripping and stockpiling
- Cut to fill
- Imported fill
- Subsoil drainage
- Counterfort drains
- Civil infrastructure
- Retaining Walls
- Bridge construction

Implementation

JFC will adopt a pro-active approach to site management, by:

- Giving consideration to the potentially adverse effects of these construction activities
- Planning activities to achieve compliance with the conditions of the Resource Consents
- Ensuring that all supervisors are familiar with this CMP, and implement the required procedures and monitoring
- Ensuring that all subcontractors and transport operators are aware of the CMP and will support JFC in its application.

SITE LOCATION AND GENERAL DETAILS

Site Location

The site is a bush covered block on the north-western side of Park Ave, near to where Park Ave adjoins Kauri Glen Rd, in Northcote.

The site is a total of 2.95 hectares and is bound to the north by Kauri Glen Reserve, to the east by an unformed extension of Kauri Glen Rd, and to the west and south by developed residential lots.

Affected Parties

The following parties are affected by these works:

- Northcote College
- 9 Aorangi Place (HNZ)
- 32 Park Ave
- 2/21 Aorangi Pl
- 1/23 Aorangi Pl

Our Contract Manager and Site Manager will visit Northcote College and notify surrounding residents via letterdrop to ensure they are aware of the works being planned. It enables concerns and other issues to be raised and noted by us as Contractor, thereby facilitating our ability to mitigate these concerns/issues, often before they arise. We will provide a copy of the proposed TMP, highlighting the parking restrictions adjacent to the site entrance.

Site Office

Copies of all relevant consents, this CMP, all H&S documentation and records of environmental monitoring will be kept in the Site Office at the site entrance, and available for inspection by the regulatory authorities.

Visitors will be required to sign in, and be inducted on safety and environmental matters before proceeding onto site.

There will be a H&S Board erected at the entrance / site office. This board will include the name of the Site Supervisor and a 24-hour contact no.

We will provide off-street parking for workers' vehicles plus two visitors' spaces, to avoid inconvenience and hazards to the occupiers of adjacent properties within Park Ave and Kauri Glen Rd.

SITE MANAGEMENT

Site Manager

The works will be overseen by Sean OSullivan.

The Site Manager will be Grant King.

The Site Manager will be responsible for the erection and maintenance of:

- Sediment and erosion control measures
- Safety fencing and other H&S measures
- Site traffic control
- Stakeholder liaison

The Site Manager will maintain daily records, which include:

- Plant and labour on site
- Weather
- Site visitors
- Monitoring of H&S and environmental measures

The Site Manager will also:

- Keep a log of any complaints received, together with records of measures taken to mitigate the cause of the complaint
- Be the designated point of contact for regulatory staff of Council

General Provisions

JFC will maintain the site in a clean and tidy condition by regular and progressive removal of rubbish and excessive materials.

We will provide rubbish bins (with lids) which will be emptied regularly, and ensure that no rubbish is allowed to be blown out of the site.

JFC will work with Catobolam and their sub consultants to keep a watch out for and facilitate action to eliminate any pests or rodents that are found on the site, though at this stage of the project this procedure has been previously completed successfully

The adjacent roads, footpaths, berms and kerbs will be kept free from damage during the works. Any damage caused that is associated with the works will be repaired back to the pre-works condition.

Hours of Work

7am to 6pm, Monday to Friday.

9am to 5pm Saturdays.

No work on Sundays or public holidays.

Plant and Service Areas

No significant quantity of hazardous material will be kept on site. Any oils or grease for the plant will be kept in a secure container, and used and disposed of carefully to prevent any possible contamination of the soil or watercourses.

Vehicle repairs and servicing will be done on hardstand areas which allow collection and disposal after any spillage.

Health and Safety



Health and Safety Policy

OUR ORGANISATION IS COMMITTED TO THE PROTECTION OF ITS EMPLOYEES AND OTHERS FROM ACCIDENTAL INJURY AND WE WILL PROMOTE OCCUPATIONAL SAFETY, HEALTH AND WELFARE
OUR DIRECTORS AND OUR EXECUTIVE WILL:

- 1 Appoint a **SAFETY MANAGER** to be responsible for Safety and Health.
- 2 Promote **EMPLOYEE CONSULTATION AND PARTICIPATION** and regularly consult with the Safety Representatives and Union Reps or Safety Committee.
- 3 Have **APPROPRIATE POLICIES** for safety planning and business objectives; staff selection and training; safety representative selection and training.
- 4 Ensure **PROVISION OF RESOURCES** to make it possible for policies to be achieved effectively and efficiently.
- 5 Comply with all **LEGISLATIVE REQUIREMENTS** Regs, Standards, COP.
- 6 Ensure that safety **SYSTEMS, PROCEDURES AND DOCUMENTS** are reviewed periodically and are monitored for effectiveness.
- 7 Have a goal of **CONTINUAL IMPROVEMENT** of safety.
- 8 Have a policy for **EARLY RETURN TO WORK** of injured employees.
- 9 We will require **ACCURATE REPORTING AND RECORDING**.

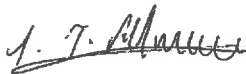
ALL MANAGERS WILL BE PERSONALLY ACCOUNTABLE:

- 10 For the health & safety **PERFORMANCE CRITERIA** for work areas over which they have control, & have **GOALS OR TARGETS** for each Department or area.
- 11 Managers will ensure their continued **MANAGEMENT COMPETENCE** in Health and Safety. They will have a **PERFORMANCE REVIEW** annually.

ALL MANAGERS AND STAFF WILL HAVE INDIVIDUAL RESPONSIBILITY FOR HEALTH AND SAFETY AND WILL:

- 12 Promote Health and Safety, and maintain a safe workplace, safe equipment and proper materials.
- 13 Establish and insist upon safe methods and safe practices at all times. and to ensure employee participation at all levels.
- 14 Ensure that Safety Representatives are selected and trained to help monitor conformance to safety standards.
- 15 Ensure that all employees, and contractors understand and accept their responsibility to promote a safe and healthy workplace.
- 16 Agree to go for **ZERO WORKPLACE ACCIDENTS**, and have a policy of **CONTINUAL IMPROVEMENT** for safety performance.

Sam Fillmore



Managing Director 10 July 2015

VEHICLE MOVEMENTS

Site Access

All truck and delivery drivers will be instructed that they must use Kauri Glenn Rd rather than Park Ave to access the site.

All truck drivers will also be advised that deliveries to the site are not permitted 0.5 hours either side of the start and finish of the school day. Which is start at 9am primary 930am secondary, finish at 3pm primary, 330pm.

JFC will obtain a CAR for the proposed site entrance and advise the local houses in proximity via letter drop for any feedback.

Vehicle Cleaning

There is an asphalt entrance to 20 Park Ave. An aggregate haul road has been laid to ensure no trucks have to drive over mud.

The Site Manager will monitor the condition of vehicles leaving the site and be responsible for maintaining the entrance in clean condition.

We will keep a record of all truck movements.

The Site Manager will arrange for immediate sweeping of the road in the event of any soil being deposited onto the road.

Truck Movements

We intend to utilise six/eight-wheeler trucks rather than truck and trailers to imported/export fill and aggregate onto site due to the tightness of Park Ave at the entrance to the site – this will mean less disruption with each truck, as the trucks will not require as long to manoeuvre onto site. There are an estimated 1000 movements in total over 9 months. Averaging 5/day and peaking at 6/hr for limited periods of time.

ENVIRONMENT

General

JFC operate an accredited Environmental Management System.

Site ESC will be implemented as per the approved drawings, monitored and maintained on an ongoing basis. There are weekly site environmental control inspections by Babingtons which are transmitted to all relevant parties

Protection of Watercourses

There are two watercourses through the site. The haul road includes the diversion of the stream flow in one of these watercourses through a temporary 600mm diameter culvert.

Super silt fences and a clean water diversion have been installed.

Protection of Trees

There are protected trees to remain on the site. These have fencing erected around their drip line to prevent damage to their roots during the works.

Dust and Air Pollution

JFC will regularly water the haul roads during dry periods and keep them in good working order

The haul road is very steep so there is a very slow speed limit imposed on trucks using it, which prevents generating excessive dust.

Air discharges from plant operating on site will be visually monitored, and any plant discharging excessive smoke, odour or dust will be shut down until the defect is resolved.

Noise

JFC will carry out the works in compliance with Table 2 of NZS 6803:1999. We will monitor and assess the noise levels in accordance with the requirements of Section 6 of this standard as required.

Our plant is well maintained to prevent excessive noise. Any plant that starts to emit excessive noise will be turned off until the defect is resolved.

Methodolgy

General Resourcing

This work will be carried out directly by JFC using our own in-house resources and incorporating specialist subcontractors for retaining walls, counterfort drains, drainage, structures in accordance to the staging sequence in the programme.

Earthworks

Earthworks are going to proceed ahead of retaining wall construction, we intend to start the earthworks on lots 10-12, get the subgrade to level and then relocate the topsoil from lots 22-17 to allow the completion of the counterfort drains. The cut will be done at a safe 1:3 batter away from the boundaries – this has been checked by Coffey Consultants, the Geotechnical Engineers.

Decanting earth-bunds will provide sediment control due to the small catchment sizes and restricted space. The water flows into the western gully have been diverted using lay-flat piping.

Cut works can then commence on lots 25-17 allowing completion of the fill in lots 13-15 as counterfort drains are complete in this area.

Then we will install the fill to lots 5-9, including the shear key required at the SED, in conjunction with the stormwater tank being built.

There is approximately 6,000m³ of cut to fill, and 3,000m³ of imported fill. JFC will use a 30T excavator and a compactor to carry out these works on site. The imported fill will be brought in with six/eight-wheeler trucks as described under Truck Movements.

As areas of earthworks are progressively completed, they will be covered with a topsoil layer, fertilised and then sown with grass seed and mulched. Where excavated areas are to be used for activities such as haul road, worker parking and materials storage, the area will be stabilized with the placement of aggregate.

Once the re-contoured land is stabilized, the sediment controls will be removed and work shifts to the next working area, until all areas of the site are completed. Areas may be left with sediment controls in to naturally stabilize while works progress to another working area.

Counterfort Drains

The installation of the counterfort drains involves thrusting of pipes from within the construction site down to the existing water channel within the bush, and construction of a small rock outlet apron. We will meet with Greenscene to identify the most appropriate location and levels of the outfalls. The vegetation within the watercourse shall be protected and maintained as much as possible. Any vegetation pruning or clearance shall be agreed with Leon.

Civil Infrastructure

JFC will start construction of the stormwater tank in conjunction with the counterfort works, fill material from here will be used in the earthworks as appropriate. The construction of the tank will also form a detention tank for when the insitu sediment pond needs to be removed to complete the earthworks in lots 5-9.

As the cut works are completed in lots 17-25 the retaining wall and fence works can commence, however prior to this the existing sewer and stormwater lines need to be realigned as per plans.

The stormwater drainage will commence as the earthworks are nearing completion and road subgrades following in succession to allow installation of the subbase layer to ensure access, subgrade protection and environmental sediment control. Once all drainage and utility road crossings are trenched kerb lines can be slip formed which will allow for utility installations, the completion of the berms and the roading basecourse/concrete works.

The bridge works are programmed for mid May through the nominated contractor GHK piling who will effectively block access to the west side of the site and JFC will work on completing the utilities and roading leading out from the site.

