Project Risk Assessment - Instructions

The Project Risk Assessment shall be used in accordance with the requirements outlined in the Risk Management procedure on Compass.

READ THIS TAB FIRST

TAB 2 - Hazard Identification

Purpose: To list Subcontractors and Activities relevant to the project in order to determine potential hazards.

Step 1: List the known trades in the 'Works by HCA or Sub" column

Step 2: For each Subcontractor/Activity, select the Potential Hazards that may apply and place a tick ✓ in the appropriate column.

Step 3: Where Potential Hazards for a specific Subcontractor/Activity are not listed, these shall be added as a new Activity on Tab 3- Risk Assessment and Control

TAB 3 - Risk Assessment and Control

Purpose: To allocate appropriate risk control measures to lower the risk of harm as low as reasonably practicable.

Step 1: For each Activity with a **Potential Hazard** identified in Tab 2, determine if Potential Hazards apply and select **Yes** or **No**. Further action required when Yes selected only.

Step 2: Where a Potential Hazard is present, determine the **Consequence** and **Likelihood.** These selections determine the **Risk Score.**

Step 3: The **Risk Score** determines the **HCA Signoff** and **Monitoring** requirements.

The Actions to Control Potential Hazards have been determined based on risk assessment in accordance with High Risk Construction Work Procedures on Compass.

Consequence and Likelihood Tables

Consequence			Likelihood		
1	Severe	Multiple fatalities	A	Almost Certain	Is expected in most circumstances
2	Major	Fatality, permanent disability	B	Very Likely	Will probably occur in most circumstances
3	Moderate	Injury or illness resulting in lost time or medical treatment	C	Possible	Could happen occasionally
4	Minor	Injury or illness without lost time or medical treatment	D	Unlikely	May occur sometime
5	Lower Significance	First aid	E	Rare	May only occur in exceptional circumstances

Risk Score Calculator

	A	B	C	D	E
1	VH-1	H-2	H-3	HM-4	HM-5
2	H-6	H-7	HM-8	HM-9	HM-10
3	H-11	M-12	M-13	L-14	L-15
4	M-16	M-17	L-18	L-19	L-20
5	MI-21	L-22	L-23	L-24	L-25

Project Risk Assessment - Instructions

Risk Appetite

Description	Risk Score	Controls
SEVERE	VH-1	**Construction Manager and SQE Manager to decide if task can proceed. If task proceeds, Construction Manager and SQE Manager to co-approve SWMS with Project Manager**; **SQE Manager** Conduct SWMS/JSEA Field Assessment
HIGH	H-2 H-3 H-6 H-7 H-11	**SQE Manager** and Project Manager to co-approve SWMS; **Project Manager** to conduct SWMS/JSEA Field Assessment
HIGH MODERATE	HM-4 HM-5 HM-8 HM-9 HM-10	Detailed review of control measures by Site Supervisor prior to SWMS approval to ensure potential hazard reduced as far as reasonably practicable.
MODERATE	M-12 M-13 M-16 M-17 M-21	Identified control measures must be capable of controlling hazards that cannot be reduced further in accordance with Hierarchy of Control.
LOW	L-14 L-15 L-18 L-19 L-20 L-22 L23 L-24 L-25	No further controls required. Monitor to ensure risk does not escalate.

Project Risk Assessment - Instructions

Hierarchy of Controls		
Elimination	Remove the hazard out of the workplace. i.e. designing the problem out. This is the best option, if it can be done.	Most Effective Controls
Substitution	Use something less hazardous. For example water based chemicals rather than solvent based ones.	
Isolation	Use barriers to shield or isolate the hazard. For example guards on machines, enclosures for noisy machinery.	
Engineering Controls	Design and install equipment to counteract the hazard. For example installing an exhaust ventilation system to extract dangerous fumes or dust.	
Administrative Controls	Arrange work to reduce the time people are around the hazard. Reduce risk by providing procedures, SWMS, training, or other administrative actions.	
Personal Protective Equipment	Have people wear protective equipment and clothing while near the hazard. For example, ear plugs or earmuffs.	Least Effective Controls

TAB 4 - Client or other entity

Purpose: To identify, control and consult potential hazards that may impact clients, the public or other entities. Where potential hazards exist, liaison with these entities shall be managed and records of activities maintained.

Consequence and Likelihood Tables, Risk Score and Risk Appetite above applies.

INSTRUCTIONS:

Where HCA is required to provide its services within or near a client's or other entity's workplace, HCA shall complete the following:

- Discuss with the client / other entity specifics relating to their operations, this may include but is not limited to:
  - o operational / workplace rules, requirements, sensitivities or expectations
  - o potential hazards created by HCA presence
  - o safety of persons (HCA, client, other entity, public),
  - o procedures, processes which may be impacted by HCA presence
  - o proposed hazard identification, risk assessment and control processes before, during and after the construction process
  - o traffic (vehicle and pedestrian) management
  - o emergency preparedness and response processes / procedures
  - o security
  - o other items as HCA, client / other entities feel appropriate
- Discuss and agree on hazards, risk assessment and proposed control measures
- Document discussions and outcomes via a HCA Project Risk Assessment document , worksheet "Client / Other Entity)
- Include Safety Management as an agenda item for appropriate meetings.
- Regarding 'other entities' agree how risk / safety related matters will be discussed. Record these meeting arrangements within the Project Management Plan, Communication / Meeting section.
- Maintain the Risk Assessment document as per agreements or as per scheduled client / other entities meeting schedule. A 'triggered' review may take place sooner where a relevant event / issue occurs.

TAB 5 - Environmental Risk

Purpose: To allocate appropriate environmental impact guides and other risk control measures to lower the environmental risk as low as reasonably practicable.

Step 1: For each **Aspect** with a potential **Impact** identified, determine if potential **Impact** applies and select **Yes** or **No**. Further action required when Yes selected only.

Project Risk Assessment - Instructions

Step 2: Where a potential **Impact** is present, determine the **Consequence** and **Likelihood** as per Tab 3. These selections determine the **Risk Score.**

Step 3: The **Risk Score** determines the **HCA Signoff** and **Monitoring** requirements.

The **Actions to Control Potential Impact**s have been determined based on Hindmarsh Environmental Impact Guides on Compass

Step 4: If the site is a **Sensitive Site** (eg; there is a known endangered species that may be impacted by the site, it is neighbouring a national park etc), identify the **Aspect** (as per previous examples) and determine potential **Impacts**

The **Actions to Control Potential Impact**s shall be determined based on Consultant / Regulatory advice

POTENTIAL HAZARD CATEGORIES

Standard High Risk Work

Safe systems of work (eg SWMS, procedures) to be developed in accordance with 'Tab 3 - Risk Assessment and Control"

Non-Standard High Risk Work

Safe systems of work (eg SWMS, procedures) to be developed in accordance with OFSC Audit Criteria Guidelines and 'Tab 3 - Risk Assessment and Control" in consultation with SQE Manager

	Works by (HCA or SUBS)	Asbestos	Confined Space	Demolition	Electrical	Excavation	Formwork	Health Surveillance, Exposure Monitoring, Hazardous Substance	Mobile Plant	Scaffold	Tilt Up/Precast Concrete	Traffic	Working at Heights	Artifical Extremes of Temperatures	Chemical, Fuel or Regrigerant Lines	Construction Work In, Over or Adjacent to Water/Liquids where Risk of Drowning	Contaminated/Flammable Atmosphere	Diving	Pressurised Gas	Telecommunication Towers	Tunnels
Complete	Delta Demolition	✓		✓		✓			✓			✓									
Scheduled	Excavation	✓				✓			✓			✓									
Active	Traffic Management											✓									
Scheduled	Formwork				✓		✓						✓								
Complete	Scaffold									✓			✓								

Activity	Potential Hazard	Is this a Potential Hazard?	Risk Assessment			Action to Control Potential Hazard	Task Responsibility	HCA Sign Off	Monitoring
		Y/N	Consequence	Likelihood	Risk Score				
Asbestos									
Asbestos Procedure	Exposure to known Asbestos Containing Material (ASM)	Yes	Severe	Almost Certain	VH-1	**Asbestos & Health Hazards Management Workshop, Asbestos Register** where ACM has been identified or is likely to be present;	Hindmarsh	SQE Manager	SWMS Field Assessment
	Unknown presence / location of ACM	Yes	Severe	Almost Certain	VH-1	**Asbestos Management Plan** by Occupational Hygienist that identifies type, presence and location of ACM.	Subcontractor	SQE Manager	SWMS Field Assessment
	Uncontrolled removal of ACM	Yes	Severe	Almost Certain	VH-1	**Asbestos Removal Control Plan; Regulatory Notifications; Clearance Certificates; SWMS** by the licensed Asbestos Removalist per legislative requirements: **Class A** - licenses the contractor to carry out work with friable and non-friable asbestos; whereas **Class B** - licenses the contractor to carry out work with non-friable asbestos only. Records of worker qualifications/training/evidence of medicals through **Site Inductions;SWMS.**	Hindmarsh	SQE Manager	SWMS Field Assessment
	Exposure to disturbed ACM	Yes	Severe	Almost Certain	VH-1	**Asbestos Management Plan; Clearance Certificates; SWMS** for air monitoring activities by an Occupational Hygienist that is independent of the licensed asbestos contractor removing the ACM.	Subcontractor	SQE Manager	SWMS Field Assessment
	Worker exposure to ACM from removal activities	Yes	Severe	Almost Certain	VH-1	**Asbestos Management Plan; Asbestos Removal Control Plan; SWMS; Health Surveillance, Exposure Monitoring and Hazardous Substances Procedure** for health surveillance and exposure monitoring activities for workers and work areas potentially affected by ACM.	Hindmarsh	SQE Manager	SWMS Field Assessment
	Unexpected finds of ACM	Yes	Severe	Almost Certain	VH-1	**EEMP Standing Orders** (see Unexpected Finds of Asbestos or known Health Hazards)**; Asbestos Management Plan; Asbestos Removal Control Plan; Clearance Certificates, SWMS.**	Hindmarsh	SQE Manager	SWMS Field Assessment
Confined Space									
Confined Space Procedure	Uncontrolled Entry into Confined Space	Yes	Severe	Almost Certain	VH-1	**Confined Space Permit; SWMS**		SQE Manager	SWMS Field Assessment
	Unauthorised Entry into Confined Space	Yes	Severe	Almost Certain	VH-1	**Confined Space Permit** - Persons entering the confined space and standby persons, shall hold Nationally Recognised Training in Confined Space; **Site Induction**; **SWMS**		SQE Manager	SWMS Field Assessment
	Entry into a contaminated or air quality compromised confined space	Yes	Severe	Almost Certain	VH-1	**Confined Space Permit; Equipment Calibration Register; SWMS.**		SQE Manager	SWMS Field Assessment
	Incident within a confined space	Yes	Severe	Almost Certain	VH-1	**EMMP Standing Orders** (see Confined Space Rescue)**; SWMS**		SQE Manager	SWMS Field Assessment
Demolition									
Demolition Procedure	Unauthorised / unsafe demolition / removal of building structures and materials	Yes	Severe	Almost Certain	VH-1	**Demolition Workshop** with Subcontractor to develop the **Demolition Work Plan** to address the building structure, including adjacent structures, and identified materials; **SWMS**		SQE Manager	SWMS Field Assessment
	Impact to adjacent building structures and materials	Yes	Severe	Almost Certain	VH-1	**Demolition Workshop** with Subcontractor to develop the **Demolition Work Plan** to address adjacent structures and materials; **SWMS**		SQE Manager	SWMS Field Assessment
	Exposure to hazardous chemicals and materials	Yes	Severe	Almost Certain	VH-1	**Demolition Workshop, Asbestos & Health Hazards Management Workshop** - Hazmat survey (including hazardous chemicals and materials) been conducted documented by Occupational Hygienist on behalf of HCA and provided to the demolition contractor; **SWMS**		SQE Manager	SWMS Field Assessment
	Contact with live services	Yes	Severe	Almost Certain	VH-1	**Demolition Workshop; Dial Before You Dig; Services Isolation Permit; SWMS** (confirm HCA, Client or contractor permits)		SQE Manager	SWMS Field Assessment
	Falls from height	Yes	Severe	Almost Certain	VH-1	**Demolition Workshop** - (Working at Heights fixed covers and guards on openings and penetrations, and safe access and egress is maintained etc); **SWMS**		SQE Manager	SWMS Field Assessment
	Falling Objects	Yes	Severe	Almost Certain	VH-1	**Demolition Workshop** - (Working at Heights exclusion zones, scaffolding requirements; protective structures etc); **SWMS**		SQE Manager	SWMS Field Assessment
	Incident during demolition	Yes	Severe	Almost Certain	VH-1	**Emergency Management Plan EMMP Standing Orders** (See Crush Injuries from Plant or Materials, Structure Collapse, Excavation Rescue, Plant Collision/Rollover, Electrical or Services Damage)**, SWMS**		SQE Manager	SWMS Field Assessment
Electrical									
Electrical Procedure	Contact with energised electrical services	Yes	Severe	Almost Certain	VH-1	**Electrical Workshop, Services Isolation Permit** issued to Licensed Electrical Contractor when safe systems of work have been developed; **Core Cut Chase Permit** issued prior to any core holing, concrete cutting or chasing works; **SWMS**		SQE Manager	SWMS Field Assessment
	Unprotected electrical systems including generators and construction wiring	Yes	Severe	Almost Certain	VH-1	**Electrical Workshop,** RCD protection for portable generators, construction wiring and electrical systems tested by a Licensed Electrical Contractor at maximum 3 monthly intervals and results recorded; **Electrical Register; SWMS** Construction wiring shall be adequately secured, protected and clearly marked accordingly with "Construction Wiring" sticker and not be tied, bundled or grouped with permanent wiring; **SWMS; Weekly SQE Inspection**		SQE Manager	SWMS Field Assessment
	Contact with faulty electrical equipment / RCD's	Yes	Severe	Almost Certain	VH-1	Records of testing and tagging of electrical equipment at maximum 3 month intervals by a Licensed Electrical Contractor for Subcontractors and Hindmarsh electrical equipment; **Electrical Register (Subcontractors or Hindmarsh); Regulatory Compliance Certificates; SWMS.**		SQE Manager	SWMS Field Assessment
	Non Compliant temporary power	Yes	Severe	Almost Certain	VH-1	**Electrical Workshop, Regulatory Compliance Certificates** for installation of temporary works; **SWMS**		SQE Manager	SWMS Field Assessment
	Unauthorised installation of electrical services	Yes	Severe	Almost Certain	VH-1	Licensed, Qualified and trained in safe systems of work involving the installation, modification, testing and certification of electrical installations; **Site Induction; SWMS**		SQE Manager	SWMS Field Assessment

Project Name: JHS

Developed & Assessed By:

Reviewed & Approved By:

Activity	Potential Hazard	Is this a Potential Hazard?	Risk Assessment			Action to Control Potential Hazard	Task Responsibility	HCA Sign Off	Monitoring
		Y/N	Consequence	Likelihood	Risk Score				
	Incident involving energised electrical services / equipment	Yes	Severe	Almost Certain	VH-1	**EMMP Standing Orders** (see Electric Shock, Electrical or Services Damage), **SWMS**		SQE Manager	SWMS Field Assessment

Activity	Potential Hazard	Is this a Potential Hazard? Y/N	Risk Assessment: Consequence	Likelihood	Risk Score	Action to Control Potential Hazard	Task Responsibility	HCA Sign Off	Monitoring
Excavation									
Excavation Procedure	Impact to adjacent building structures, materials and foundations	Yes	Severe	Almost Certain	VH-1	**Excavation Permit; SWMS**		SQE Manager	SWMS Field Assessment
	Contact with underground or above ground services	Yes	Severe	Almost Certain	VH-1	**Excavation Permit; Services Isolation Permit; Services Interference Request; Dial Before You Dig; SWMS**		SQE Manager	SWMS Field Assessment
	Ground collapse.	Yes	Severe	Almost Certain	VH-1	**Excavation Permit; Inspections Type A or B; SWMS.**		SQE Manager	SWMS Field Assessment
	Ground collapse where shoring systems or other documented methods are utilised,	Yes	Severe	Almost Certain	VH-1	**Excavation Permit; Inspections Type A or B; SWMS.**		SQE Manager	SWMS Field Assessment
	Uncontrolled excavations	Yes	Severe	Almost Certain	VH-1	**Excavation Permit; Inspections Type A or B; SWMS.**		SQE Manager	SWMS Field Assessment
	Potential falls into the excavation	Yes	Severe	Almost Certain	VH-1	**Excavation Permit; Inspections Type A or B; SWMS.**		SQE Manager	SWMS Field Assessment
	Mobile plant impacting on the excavation	Yes	Severe	Almost Certain	VH-1	**Excavation Permit; Inspections Type A or B; SWMS.**		SQE Manager	SWMS Field Assessment
	Incident in and around excavations	Yes	Severe	Almost Certain	VH-1	**EMMP Standing Orders** (See Excavation Rescue,Structure Collapse, Escavation Rescue, Plant Collision/Rollover, Electrical or Services Damage, Uncontrolled Escape of Gas), **SWMS**		SQE Manager	SWMS Field Assessment
Formwork									
Formwork Procedure	Uncontrolled erection of formwork	Yes	Severe	Almost Certain	VH-1	**Formwork Workshop; SWMS**		SQE Manager	SWMS Field Assessment
	Unauthorised design	Yes	Severe	Almost Certain	VH-1	**Formwork Workshop;** Formwork Designer signoff (designer etc)		SQE Manager	SWMS Field Assessment
	Collapse of Temporary structure	Yes	Severe	Almost Certain	VH-1	**Formwork Workshop; SWMS**		SQE Manager	SWMS Field Assessment
	Unauthorised erection of formwork	Yes	Severe	Almost Certain	VH-1	**Formwork Workshop**, **Formwork Checklist** inspection; SMWS		SQE Manager	SWMS Field Assessment
	Temporary structural support / back propping failure	Yes	Severe	Almost Certain	VH-1	**Formwork Workshop**; Engineers signoff for stripping / back propping		SQE Manager	SWMS Field Assessment
	Incident involving/ during formwork activities	Yes	Severe	Almost Certain	VH-1	**EMMP Standing Orders** (See Structure Collapse, Crush Injuries from Plant or Materials, Electric Shock), **SWMS**		SQE Manager	SWMS Field Assessment
Health Surveillance, Exposure Monitoring, Hazardous Substance									
Health Surveillance, Exposure Monitoring, Hazardous Substance Procedure	Exposure to known health hazards: Synthetic Mineral Fibres (SMF), Polychlorinated Biphenyls (PCB), Ozone Depleting Substances (ODS), Acrylonitrile, Arsenic (inorganic), Benzene, Cadmium, Chromium (inorganic), Creosote, Crystalline silica, Isocyanates, Mercury (inorganic), 4,4'-Methylene bis (2-chloroaniline) (MOCA), Organophosphate pesticides, Pentachlorophenol (PCP), Polycyclic aromatic hydrocarbons (PAH), Thallium, Vinyl chloride, Lead (inorganic)	Yes	Severe	Almost Certain	VH-1	**Project Commencement Checklist** to identify if known hazards exist on site. Engage an Occupational Hygienist to develop exposure monitoring standards and control plan; **Asbestos & Health Hazards Management Workshop, SWMS** for tasks where health hazards identified/likely to be present.		SQE Manager	SWMS Field Assessment
	Uncontrolled / absent health surveillance/exposure monitoring	Yes	Severe	Almost Certain	VH-1	**Asbestos & Health Hazards Management Workshop, SWMS;** Occupational Hygienist to develop exposure monitoring standards and controls; Health surveillance by Medical Practitioner.		SQE Manager	SWMS Field Assessment
	Exposure to health hazards due to failure of inspection, measuring and test equipment	Yes	Severe	Almost Certain	VH-1	**SWMS / Plans** to identify use of Equipment; Maintain Records of Calibration (Hindmarsh **Equipment Calibration Register** OR registers supplied by third parties)		SQE Manager	SWMS Field Assessment
	Exposure to hazardous chemicals	Yes	Severe	Almost Certain	VH-1	**Hazardous Chemical / Substance Risk Assessment** shall manage the use, handling, generating and storing of hazardous chemicals. **SWMS, Chemical Substance Register, Safety Data Sheet (SDS).** **EMMP Standing Orders** (See Unexpected Finds of Asbestos or known Health Hazards)		SQE Manager	SWMS Field Assessment
Mobile Plant									
Mobile Plant Procedure	Failure to identify hazards associated with plant	Yes	Severe	Almost Certain	VH-1	**Plant Risk Assessment** by either a Designer, Manufacturer, Supplier, Owner or Competent Person for all plant prior to use on site. Where a suitable plant risk assessment has not been supplied, the **Principle Contractor Plant Risk Assessment** shall be completed in consultation with the plant operator/supplier. **SWMS**		SQE Manager	SWMS Field Assessment
	Contact with underground or above ground service	Yes	Severe	Almost Certain	VH-1	**Mobile Plant Pre-use Checklist; Mobile Crane/ Boom Pump Set Up; Excavation Permit; SWMS**		SQE Manager	SWMS Field Assessment
	Unsafe operation of mobile crane	Yes	Severe	Almost Certain	VH-1	**Mobile Plant Pre-use Checklist; Mobile Crane/ Boom Pump Set Up; SWMS**		SQE Manager	SWMS Field Assessment
	Failure of lifting and rigging equipment	Yes	Severe	Almost Certain	VH-1	**Mobile Plant Pre-use Checklist; SWMS**		SQE Manager	SWMS Field Assessment
	Uncontrolled movement of Plant / Vehicles	Yes	Severe	Almost Certain	VH-1	**SWMS** - Identify spotter; **Onsite Movement Plan** - Exclusion zones, traffic routes, plant/vehicle/worker interactions. Toolbox and Pre Start Meetings shall be used to communicate activities. **Weekly SQE Inspection**		SQE Manager	SWMS Field Assessment

Activity	Potential Hazard	Is this a Potential Hazard?	Risk Assessment			Action to Control Potential Hazard	Task Responsibility	HCA Sign Off	Monitoring
		Y/N	Consequence	Likelihood	Risk Score				
	Unauthorised use of mobile plant	Yes	Severe	Almost Certain	VH-1	**Mobile Plant Pre-use Checklist; Tower Crane Checklist** (section 3) evidence of plant operator licencing, training or competence. **Technical Guidance Note - Verification of Mobile Plant Operator Competency** for competency requirements; **SWMS** Where plant is to be stored on site it must be stored in a manner that is safe and where improper / unauthorised use can not occur.		SQE Manager	SWMS Field Assessment
	Failure of unmaintained mobile plant	Yes	Severe	Almost Certain	VH-1	**Mobile Plant Pre-use Checklist; Plant Register, Weekly SQE Inspection; SWMS** The Mobile Plant Pre-Use Checklist and Tower Crane Checklist (section 3 - Commissioning) shall be used to manage a program of plant inspections and maintenance specific to the needs of each type of plant. Inspections shall be in accordance with regulatory inspections and registrations; manufacturers requirements, including pre-start inspections and commissioning prior to commencing on site.		SQE Manager	SWMS Field Assessment
	Incident involving mobile plant	Yes	Severe	Almost Certain	VH-1	**Mobile Plant Pre-use Checklist To address safe systems of work. Includes Original Equipment Manufacturers (OEM) manuals, Plant Risk Assessments, site specific requirements and the need for ROP'S and FOPs. Plant Register, EMMP,** (See Crush Injuries From Plant or Materials, Electrical or Services Damage, Plant Collision / Roll Over, Structural Collapse, Excavation Rescue), **SWMS**		SQE Manager	SWMS Field Assessment
Scaffold									
Scaffold Procedure	Uncontrolled erection of Scaffold	Yes	Severe	Almost Certain	VH-1	**Scaffold > 4m Scaffold Workshop** to develop safe systems of work for the erection, use and stripping of scaffolding >4m. **SWMS** **Scaffold < 4m Scaffold Installation Logbook** when assembling, dismantling and re-assembling fixed or mobile scaffolds where there is a risk of fall of < 4m the shall be completed. However if a Licensed Scaffolder is conducting the works - inspection certificate and scaff tag is acceptable. **SWMS**		SQE Manager	SWMS Field Assessment
	Unauthorised design and erection of Scaffold	Yes	Severe	Almost Certain	VH-1	**Scaffold > 4m Scaffold Workshop** to address design requirements and develop safe systems of work for the erection, use and stripping of scaffolding >4m Scaffold drawing to be supplied and certified by a scaffold designer where a person or object can fall > 4m **SWMS** **Scaffold < 4m** Manufacturers design to be supplied for fixed or mobile scaffold where a person or object can fall <4m .**SWMS**		SQE Manager	SWMS Field Assessment
	Collapse / Failure of Scaffold	Yes	Severe	Almost Certain	VH-1	**Scaffold > 4m Scaffold Workshop** to develop safe systems of work for the erection and inspection of scaffolding > 4m, SMWS **Scaffold < 4m Scaffold Installation Logbook** when assembling, dismantling and re-assembling fixed or mobile scaffolds where there is a risk of fall of <4m However if a Licensed Scaffolder is conducting the works - inspection certificate and scaff tag is acceptable. **SWMS**		SQE Manager	SWMS Field Assessment
	Unauthorised / incorrect erection of Scaffold	Yes	Severe	Almost Certain	VH-1	**Scaffold > 4m Scaffold Workshop** to address inspector and installer requirements for the erection, use and stripping of scaffolding >4m **Scaffold < 4m Scaffold Installation Logbook** for fixed or mobile scaffold where a person or object can fall < 4m shall be completed. However if a Licensed Scaffolder is conducting the works - the inspection certificate and scaff tag for the scaffold is acceptable. **SWMS**		SQE Manager	SWMS Field Assessment
	Incident involving scaffold work / scaffold failure	Yes	Severe	Almost Certain	VH-1	**EMMP Standing Orders** (See Crush Injuries from Plant or Materials, Severe Weather, Structure Collapse, Electric Shock), **SWMS**		SQE Manager	SWMS Field Assessment
Tilt-up/Precast Concrete									
Tilt-up/Precast Concrete Procedure	Unauthorised design and erection of Tilt up / pre cast concrete.	Yes	Severe	Almost Certain	VH-1	**Tilt-up / Precast Workshop** with the relevant Tilt-up/Precast contractor prior to activities commencing on site. **SWMS**		SQE Manager	SWMS Field Assessment
	Uncontrolled erection of Tilt up / pre cast concrete	Yes	Severe	Almost Certain	VH-1	**Tilt-up / Precast Workshop** with the relevant Tilt-up/Precast contractor prior to activities commencing on site. **SWMS**		SQE Manager	SWMS Field Assessment
	Panel and bracing failure due to impact	Yes	Severe	Almost Certain	VH-1	Risks associated with Tilt-up/ Precast Concrete activities are identified, assessed and controlled in accordance with the **Compass Action Steps** A **Tilt-up / Precast Workshop** shall be conducted with the relevant Tilt-up/Precast contractor prior to activities commencing on site. SWMS, onsite movement plans		SQE Manager	SWMS Field Assessment
	Panel and bracing failure	Yes	Severe	Almost Certain	VH-1	**Tilt-up / Precast Workshop** with the relevant Tilt-up/Precast contractor prior to activities commencing on site. **SWMS** **Installation -** The Contractor shall provide Hindmarsh with documented verification that Tilt-up/Precast panels have been installed in accordance with the requirements of the Design Plan. **Ongoing Inspection -** The Contractor shall provide Hindmarsh evidence of inspection of temporary bracings that have been conducted in accordance with the frequencies and requirements of the Design Plan. The **Tilt-up/Precast Inspection Checklist** may be used by the Contractor in the absence of any other safe system of work to verify the completion of the above inspections		SQE Manager	SWMS Field Assessment
	Incident involving Tiltup / precast	Yes	Severe	Almost Certain	VH-1	**EMMP Standing Orders** (See Structure Collapse, Crush Injuries from Plant or Materials, Electric Shock, Severe Weather), **SWMS**		SQE Manager	SWMS Field
Traffic									
Traffic Management Procedure	Unplanned / Unauthorised Traffic Control.	Yes	Severe	Almost Certain	VH-1	**Traffic Management Plan** (Hindmarsh Temporary Traffic Management Plan in the absence of Subcontractor Plan), Regulatory approvals.		SQE Manager	SWMS Field Assessment
	Uncontrolled Traffic Management	Yes	Severe	Almost Certain	VH-1	**Traffic Management Plan, Traffic Management Inspections** (Hindmarsh Traffic Management Inspection in the absence of Subcontractor inspections),		SQE Manager	SWMS Field Assessment
	Unauthorised Traffic Controllers	Yes	Severe	Almost Certain	VH-1	**Site Induction, SWMS**, Regulatory recognised training - e.g.Traffic Control Using Stop/Slow Bat; Introduction to Traffic Control of Roadwork's; Traffic Control Worksite Planning; Design and Audit Traffic Control Plans.		SQE Manager	SWMS Field Assessment
	Failure or absence of Traffic Management Controls	Yes	Severe	Almost Certain	VH-1	**Traffic Management Plan, Traffic Management Inspections** (Hindmarsh Traffic Management Inspection in the absence of Subcontractor inspections),		SQE Manager	SWMS Field Assessment
	Incident involving Traffic	Yes	Severe	Almost Certain	VH-1	**Traffic Management Plan, SWMS, On-Site Movement Plan EMMP Standing Orders** (See Plant Collison / Roll over).		SQE Manager	SWMS Field Assessment
Working at Heights									

Activity	Potential Hazard	Is this a Potential Hazard?	Risk Assessment			Action to Control Potential Hazard	Task Responsibility	HCA Sign Off	Monitoring
		Y/N	Consequence	Likelihood	Risk Score				
Working at Heights Procedure	People falling from heights	Yes	Severe	Almost Certain	VH-1	A Harness Permit and SWMS shall only be permitted for the use of Fall Restraint/Fall arrest equipment if the following controls are not reasonably practicable: 1 - the task can be performed on the ground such as pre fabrication or use of extension poles; 2 - the use of scaffold can be utilised to complete the designated task; 3 - An EWP can be used and safely positioned to complete the task; and 4 - Another work positioning system (E.g. Man box, Swinging Stage) can be used and safely positioned to complete the task. **SWMS, Harness Permit**		SQE Manager	SWMS Field Assessment
	Falling objects	Yes	Severe	Almost Certain	VH-1	Safe systems of work to be documented per the Hierarchy of Controls as follows to prevent falling objects: 1 - Temporary protective structure e.g. Hoarding Nets/Catch Deck 2 - Exclusion zones 3 - PPE e.g. Lanyards, tool buckets **SWMS, Harness Permit**		SQE Manager	SWMS Field Assessment
	Failure of fall prevention systems / structures	Yes	Severe	Almost Certain	VH-1	**SWMS, Harness Permit, Installation and inspection schedules and records.**		SQE Manager	SWMS Field Assessment
	Incorrect use of fall restraint/arrest equipment	Yes	Severe	Almost Certain	VH-1	**SWMS, Harness Permit, Training, installation, maintenance and inspection schedules and records.**		SQE Manager	SWMS Field Assessment
	Working from A-Frame / rung Ladders	Yes	Severe	Almost Certain	VH-1	Where Scaffolds, EWPS, Platform Ladders or Trestles cannot be used, safe systems of work shall be provided to address the hazards and controls relating to working from a ladder **(eg SWMS, Risk Assessment, standard operating procedure)**		SQE Manager	SWMS Field Assessment
	Unsafe access and egress when working at heights	Yes	Severe	Almost Certain	VH-1	Where access and egress cannot be managed by Demolition, Excavation, Formwork or Scaffold procedures the following safe systems of work shall apply to provide safe access and egress from heights: - Minimum of 2 x scaffold stair access will be provided to all working deck levels while scaffold is present on site - Once available, internal stairs shall be utilised. - A personnel / materials hoist will be installed once the building reaches level 4 **SWMS**		SQE Manager	SWMS Field Assessment
	Incidents due to working at heights	Yes	Severe	Almost Certain	VH-1	**EMMP Standing Orders (See Safety Harness Rescue, Structure Collapse), SWMS**		SQE Manager	SWMS Field Assessment
Design									
Design Procedure	Construction buildability hazards not identified during design planning	Yes	Severe	Almost Certain	VH-1	Review client/designer/ other third-party supplied Design Risk Assessment. If not available, complete the **Safety in Design Risk Profile.** Transfer outstanding buildability hazards to this Project Risk Assessment.		SQE Manager	SWMS Field Assessment
	Changes in Design	Yes	Severe	Almost Certain	VH-1	Changes in design are documented on and communicated via the **Design Change Authority** after being risk assessed.		SQE Manager	SWMS Field Assessment
	Changes to design unknown	Yes	Severe	Almost Certain	VH-1	New hazards and changes to documented hazard controls shall be communicated via **Design Change Authority**		SQE Manager	SWMS Field Assessment
Work Environment									
	Trades working close to others and being unaware of identified hazards	Yes	Severe	Almost Certain	VH-1	**SWMS** to consider to immediate work area to ensure other trades. **Pre Start Meetings** to communicate project activities.		SQE Manager	SWMS Field Assessment
	Dust	Yes	Severe	Almost Certain	VH-1	Enagage suitable consultants, **SWMS, Dust EIG.** **Pre Start Meetings** to communicate project activities.		SQE Manager	SWMS Field Assessment
	Noise	Yes	Severe	Almost Certain	VH-1	Enagage suitable consultants, **SWMS, Noise EIG.** **Pre Start Meetings** to communicate project activities.		SQE Manager	SWMS Field Assessment
	Vibration	Yes	Severe	Almost Certain	VH-1	Enagage suitable consultants, **SWMS, Vibration EIG.** **Pre Start Meetings** to communicate project activities.		SQE Manager	SWMS Field Assessment
	Identify project specific hazards here	Yes	Severe	Almost Certain	VH-1	Identify project specific controls here to reduce the potential hazard as low as reasonably practicable		SQE Manager	SWMS Field Assessment
Site Security									
	Injury to public due to unauthorised entry	Yes	Severe	Almost Certain	VH-1	HCA to erect 1800mm high fencing around the site perimeter to prevent unauthorised entry; Statutory safety signage to be erected around the project and at all entry gates to site. Standard signage. Do Not Enter Authorised Personnel Only, All Visitors to report to Site Office, Hindmarsh standard Signage to be erected. 24hr emergency contact details should be posted at site entry points as per COP for construction.		SQE Manager	SWMS Field Assessment
	Entry not secure	Yes	Severe	Almost Certain	VH-1	HCA to ensure that the site entry gates within the project are locked when ever the site is unattended. Site gates to be shut at all times unless manned to prevent unauthorized entry on to site.		SQE Manager	SWMS Field Assessment
	Absence of Entry and Exit Lighting	Yes	Severe	Almost Certain	VH-1	As per AS 3012 General minimum lighting 40 lux for walk ways and luminaires protected from mechanical damage, Installed where required emergency lighting sufficient to 20 lux.		SQE Manager	SWMS Field Assessment
	Emergency Lighting	Yes	Severe	Almost Certain	VH-1	AS/NZS3012 Electrical installations on construction sites and demolition sites, clause 2.7.3, sets out that a minimum light level of 20 lx be provided for a minimum of one hour following the loss of normal lighting on sites where natural lighting is insufficient.		SQE Manager	SWMS Field Assessment

Project Name: JHS

Developed & Assessed By:

Reviewed & Approved By:

Activity	Potential Hazard	Is this a Potential Hazard?	Risk Assessment			Action to Control Potential Hazard	Task Responsibility	HCA Sign Off	Monitoring
		Y/N	Consequence	Likelihood	Risk Score				
	Identify project specific hazards here	Yes	Severe	Almost Certain	VH-1	Identify project specific controls here to reduce the potential hazard as low as reasonably practicable		SQE Manager	SWMS Field Assessment
Manual Handling									
	Injury	Yes	Severe	Almost Certain	VH-1	Manual Handling Training / **SWMS**		SQE Manager	SWMS Field Assessment
	Mechanical Lifting and Handling	Yes	Severe	Almost Certain	VH-1	Horizontal and vertical movements by subcontractors according to SWMS or risk assessment		SQE Manager	SWMS Field Assessment
	Identify project specific hazards here	Yes	Severe	Almost Certain	VH-1	Identify project specific controls here to reduce the potential hazard as low as reasonably practicable		SQE Manager	SWMS Field Assessment
Potential Emergencies	This includes project specific potential emergencies that are oustide the standard HRCW Activity controls.								

Project Name:

Developed & Assessed By:

POTENTIAL HAZARD IMPACTING OTHER ENTITY - as determined by consultation

		Client / Other Entity Impacted								Can the Hazard Be:						RESPONSIBILITY		
HAZARD **CRITICAL NOTE - Do not duplicate hazards as identifed on Tab 3 (eg public protection, site security). These hazards are standard and controls implemented inherantly protect client / other entities.** **Record here additional hazard as identified via consultation which are not already addressed by Tab 3.**	**RISK**	CLIENT	NEIGHBOURS (business / residents)	MEMBERS OF PUBLIC	OTHERS (specify)	**Consequence**	**RISK ASSESSMENT Likelihood**	**Risk Score**	ELIMINATED	SUBSTITUTED	ISOLATED	ENGINEERED	**Action to Reduce / Control Risk** Nominated controls below MUST be developed by applying Heirachy of Control: 1. Elimination, 2. Substitution, 3.Isolation, 4. Engineer, 5. Administrative, 6. PPE)	**Task Resposnibility**	**HCA Sign Off**	**Monitoring**
Interruption to existing electrical supply example		Y	Y	Y	Y	Severe	Almost Certain	VH-1	Y	Y	Y	Y		Hindmarsh	SQE Manager	SWMS Field Assessment
construction near power generating infrastructures e.g substation, railway electrical infrastructure example		Y	Y	Y	Y	Severe	Almost Certain	VH-1	Y	Y	Y	Y		Hindmarsh	SQE Manager	SWMS Field Assessment
Bus Stop outside site example		Y	Y	Y	Y	Severe	Almost Certain	VH-1	Y	Y	Y	Y		Hindmarsh	SQE Manager	SWMS Field Assessment

Project Name: Jerrabomberra High School

Developed & Assessed By: Nick Valois

Reviewed & Approved By: Dennis Van Raalte

Aspect	Impact	Is this a Potential Impact?	Risk Assessment			Action to Control Potential Impact	Task Responsibility	HCA Sign Off	Monitoring
		Y/N	Consequence	Likelihood	Risk Score				
Sediment and Erosion	Soil erosion	Yes	Severe	Almost Certain	VH-1	EIG002 - Disturbance Flora Fauna		SQE Manager	SWMS Field Assessment
	Sediment	Yes	Severe	Almost Certain	VH-1	EIG002 - Disturbance Flora Fauna		SQE Manager	SWMS Field Assessment
	Surface run off	Yes	Severe	Almost Certain	VH-1	EIG002 - Disturbance Flora Fauna		SQE Manager	SWMS Field Assessment
Flora and Fauna	Disturbance of flora and fauna	Yes	Severe	Almost Certain	VH-1	EIG002 - Disturbance Flora Fauna		SQE Manager	SWMS Field Assessment
	Disturbance of aquatic flora and fauna	Yes	Severe	Almost Certain	VH-1	EIG003 - Disturbance Aqua Flora and Fauna		SQE Manager	SWMS Field Assessment
	Spread of infectious plant, disease and/or weeds	Yes	Severe	Almost Certain	VH-1	EIG010 - Presence of Infectious Plant, Disease and/or Weeds		SQE Manager	SWMS Field Assessment
Emissions	Noise emissions	Yes	Severe	Almost Certain	VH-1	EIG004 - Noise Emissions		SQE Manager	SWMS Field Assessment
	Atmospheric emissions	Yes	Severe	Almost Certain	VH-1	EIG005 - Atmospheric Emissions		SQE Manager	SWMS Field Assessment
	Vibration	Yes	Severe	Almost Certain	VH-1	EIG006 - Vibration		SQE Manager	SWMS Field Assessment
Storage and Handling of Materials and Substances	Leaks / spillage of materials or substances	Yes	Severe	Almost Certain	VH-1	EIG007 - Storage, Maintenance, Refuel		SQE Manager	SWMS Field Assessment
	Leaks / spillage of hazardous materials or dangerous substances	Yes	Severe	Almost Certain	VH-1	EIG008 - Storage, Handling Hazardous / Dangerous Substances / Materials		SQE Manager	SWMS Field Assessment
	Contact with PCBs or contamination of surrounding soils and / or waterways by PCBs	Yes	Severe	Almost Certain	VH-1	EIG018 - PCB Management		SQE Manager	SWMS Field Assessment
Community	Negative social impact	Yes	Severe	Almost Certain	VH-1	EIG012 - Disturbance Cultural Heritage		SQE Manager	SWMS Field Assessment
	Disturbance of cultural or heritage items	Yes	Severe	Almost Certain	VH-1	EIG012 - Disturbance Cultural Heritage		SQE Manager	SWMS Field Assessment
	Negative visual impact	Yes	Severe	Almost Certain	VH-1	EIG014 - Visual Amenity		SQE Manager	SWMS Field Assessment
Land Contamination	Soil contamination in the vicinity of the site	Yes	Severe	Almost Certain	VH-1	EIG013 - Land Contamination		SQE Manager	SWMS Field Assessment
	Contamination due to acid sulphate soils	Yes	Severe	Almost Certain	VH-1	EIG016 - Acid Sulphate Soils		SQE Manager	SWMS Field Assessment
	Contamination of soils / water due to ballast	Yes	Severe	Almost Certain	VH-1	EIG017 - Ballast		SQE Manager	SWMS Field Assessment
Resource management	Energy consumption	Yes	Severe	Almost Certain	VH-1	EIG019 - Energy and/or Water Consumption		SQE Manager	SWMS Field Assessment
	Water consumption	Yes	Severe	Almost Certain	VH-1	EIG019 - Energy and/or Water Consumption		SQE Manager	SWMS Field Assessment
	Solid waste treatment	Yes	Severe	Almost Certain	VH-1	EIG011 - Solid and/or Liquid Waste Recycling		SQE Manager	SWMS Field Assessment
	Liquid waste treatment	Yes	Severe	Almost Certain	VH-1	EIG011 - Solid and/or Liquid Waste Recycling		SQE Manager	SWMS Field Assessment
Sensitive Site	Golden Sun Moth	yes	Severe	Almost Certain	VH-1	Follow CEMP unexpected finds protocol (16.7) and refer to EIG002 - Disturbance Flora Fauna			
	NA								
	NA								
	NA								
Potential Emergencies	This includes project specific potential emergencies that are outside the standard EIG controls								
	Major Chemical Spill	Yes	Severe	Almost Certain	VH-1	**EIG018 - Polychlorinated Biphenyl Management**		SQE Manager	SWMS Field Assessment
	Major Waterway Pollution	Yes	Severe	Almost Certain	VH-1	**EIG013 - Land Contamination**		SQE Manager	SWMS Field Assessment

APPENDIX E – Construction Traffic and Pedestrian Management Plan

Attached document - Appendix E 12548316 Jerrabomberra CTPMSP Rev 3

Condition	Document / Sub-Plan Reference			Document / Sub-Plan Reference
B14	The Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) must be prepared to achieve the objective of ensuring safety and efficiency of the road network and address, but not be limited to, the following:			-
	(a)	be prepared by a suitably qualified and experienced person(s);		Section 1.1 , page 1
	(b)	be prepared in consultation with Council and TfNSW;		Section 1.1, page 1
	(c)	detail:		
		(i)	measures to ensure road safety and network efficiency during construction in consideration of potential impacts on general traffic, cyclists and pedestrians and bus services;	Section 2.4.1-3, page 8-9
		(ii)	measures to ensure the safety of vehicles and pedestrians accessing adjoining properties where shared vehicle and pedestrian access occurs;	Section 2.5, page 9
		(iii)	heavy vehicle routes, access and parking arrangements;	Section 2.2, page 5-7

New High School in Jerrabomberra

Preliminary Construction Traffic and Pedestrian Management Sub-Plan

Hindmarsh Construction

5 August 2022

The Power of Commitment

Project name		New High in Jerrabomberra					
Document title		New High School in Jerrabomberra | Preliminary Construction Traffic and Pedestrian Management Sub-Plan					
Project number		12548316					
File name		12548316 Jerrabomberra CTPMSP Rev A.docx					
Status Code	**Revision**	**Author**	**Reviewer**		**Approved for issue**		
			Name	**Signature**	**Name**	**Signature**	**Date**
S3	A	M Lucas	Jayme Akstein	On file	J Deng	On file	11/07/22
S4	1	M Lucas	Jayme Akstein	On file	J Deng	On file	11/07/22
S4	2	M Lucas	Jayme Akstein	On file	Jayme Akstein	On file	04/08/22

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Sydney, NSW, 2000

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The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

1. Introduction

1.1 Conditions of consent

This Preliminary Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) has been prepared by GHD for the new school in Jerrabomberra to respond to a request for information from the Department of Planning Environment (DPE).

The requirements for the CTPMSP and the location of GHD's response within this plan are presented in Table 1.

Table 1 DPE Specifications

Specifications	Responses
B14. The Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) must be prepared to achieve the objective of ensuring safety and efficiency of the road network and address, but not be limited to, the following: (a) be prepared by a suitably qualified and experienced person(s); (b) be prepared in consultation with Council and TfNSW; (c) detail: (i) measures to ensure road safety and network efficiency during construction in consideration of potential impacts on general traffic, cyclists and pedestrians and bus services; (ii) measures to ensure the safety of vehicles and pedestrians accessing adjoining properties where shared vehicle and pedestrian access occurs; (iii) heavy vehicle routes, access and parking arrangements; (iv) the swept path of the longest construction vehicle entering and exiting the site in association with the new work, as well as manoeuvrability through the site, in accordance with the latest version of AS 2890.2; and (v) arrangements to ensure that construction vehicles enter and leave the site in a forward direction unless in specific exceptional circumstances under the supervision of accredited traffic controller(s).	(a) The CTPMSP has been prepared by qualified and experienced personnel. (Refer to Appendix A for GHD Staff CVs) (b) The CTPMSP has been developed in conjunction with QPRC and TfNSW. Consultation records are attached in Appendix B. Any updates (as required) will be incorporated in accordance with their feedback. (c)(i) Measures to support road safety and network efficiency during construction are detailed in Section 2.4. (ii) Potential impacts to adjoining properties are detailed in Section 2.5. (iii) Haulage routes to and from the site are detailed in 2.3 (iv) Access and parking arrangements are detailed in Section 2.2 and Section 2.6. (v) The swept path drawings indicating construction vehicles can enter the site manoeuvre internally and exit in a forward direction are provided in Section 2.7.

This Preliminary CTPMSP has been prepared by Mark Lucas. Mark is a Transport Planner with 15 years' experience who prepared the Transport Plan and Traffic Assessment for the new high school in Jerrabomberra.

The CTPMSP has been reviewed by Jayme Akstein and approved by Joanne Deng. Jayme is the Business Group Manager of the Sydney Traffic Engineering and Transport Planning Team. Joanne is a Traffic and Transport

Consultant with four years' experience and has completed the Prepare Work Zone Traffic Management Plan Course (RIISS00056).

[redacted]

A copy of this CTPMSP will be shared with key stakeholders (including TfNSW and Queanbeyan-Palerang Regional Council) for comment and discussion.

1.1 Proposal

The proposal generally includes the following works:

- Site preparation works, such as clearing and levelling, to accommodate the proposed buildings and play areas.
- Construction of a series of buildings up to three storeys, including administration/staff areas, library, hall and general learning spaces.
- Construction of new walkways, central plaza and outdoor games courts.
- Construction of a new at-grade car park.
- Associated site landscaping and open space.

The car park will be the first feature of the new high school that will be constructed.

The site plan for the new high school in Jerrabomberra is displayed in Figure 1.

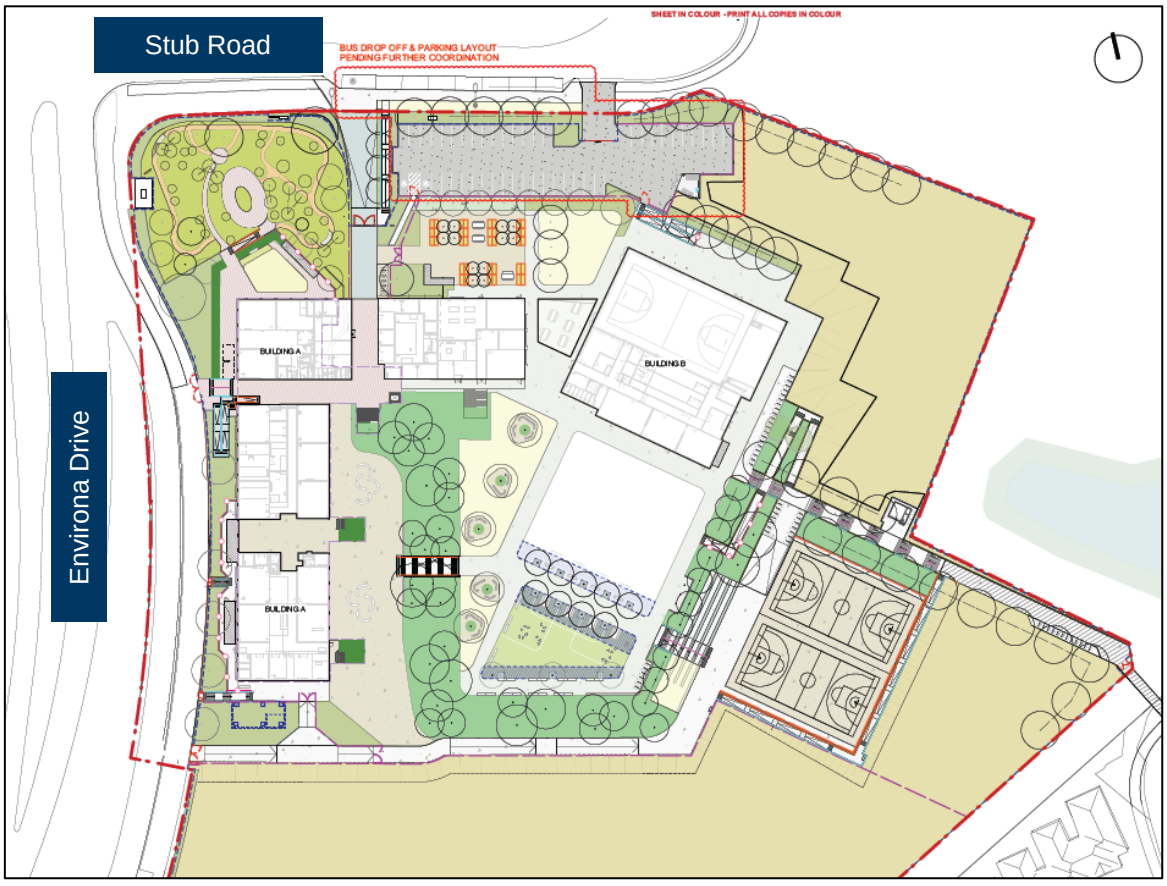

Figure 1 Site plan

Source: Hindmarsh modified by GHD

Vehicle access to the construction site will be provided from a stub road (cul-de-sac) that intersects Environa Drive at a priority-controlled junction.

The layout of the intersection of Environa Drive and 'Stub Road' is displayed in Figure 2 (image taken on 15th February 2022).

Figure 2 Intersection layout

Source: MetroMap modified by GHD

There will be no direct vehicle access/egress to and from the construction site via Environa Drive.

`

2. Construction outline

The construction of the new high school in Jerrabomberra is expected to commence in 2022 and be completed by 2023.

Traffic generated by construction activities for the project would include heavy vehicles associated with the construction plant, deliveries and removal of materials, along with light vehicles from construction workers.

The NSW Environmental Protection Authority, Draft Construction Noise Guidelines, details the recommended standard hours for construction works:

– Weekdays 7:00 am – 6:00 pm
– Saturdays 8:00 am – 1:00 pm
– Sundays and public holidays, no work.

The majority of construction works will be scheduled to occur during these standard hours. In any circumstances where out-of-hours work is required, approval will be sought from TfNSW.

2.1 Vehicle activity

2.1.1 Heavy vehicles

Preliminary estimates of the heavy vehicle activity associated with the construction of the new high school in Jerrabomberra are as follows:

– Cranes – likely to be required during the construction of the superstructure, approximately three cranes (of up to 60 tonnes) per week for a period of two months.
– Truck and dog trailer – likely to be required for the duration of the civil works, approximately four to six movements per day (inbound and outbound) for a period of two months.
– Material deliveries – likely to be multiple deliveries per day, in vehicles ranging from utes to pantecs.
– Waste – likely to be one movement every second day.

2.1.2 Light vehicles

It is expected that there will be a maximum workforce of approximately 120 workers.

As detailed in Section 2.2, temporary accommodation will be provided onsite for approximately 40 workers. Typically, up to 80 workers will access/egress the construction site.

The majority of workers are expected to reside in the nearby population centres of Queanbeyan and Canberra, offering opportunities for carpooling. For the purpose of analysis, it is assumed that there will be an occupancy rate of 1.5 workers per vehicle.

Application of this car driver rate to the assumed workforce yields a typical traffic generation in the order of 55 light vehicles per day, which are anticipated to access the subject site in the morning and depart the subject site in the afternoon/evening.

2.1.3 Oversize vehicles

At this stage of the project, details of the oversized vehicles required to transport equipment or plant to the site are not available. However, should oversize vehicles be required (i.e. lifts and pre-cast structures, crane erection), the Contractor will be required to apply for permits from Transport for NSW and Council, with the submission of suitable traffic management and transportation routes to be agreed, subject to the required size of the vehicle.

`

Oversize vehicle routes are to be carried out where possible on designated heavy vehicle routes or routes approved by Transport for NSW. Additionally, oversized traffic movements will be carried out, where possible, outside peak road network periods, thereby minimising the impacts on the road network.

2.2 Construction access

The overall construction access arrangement is detailed in Figure 3.

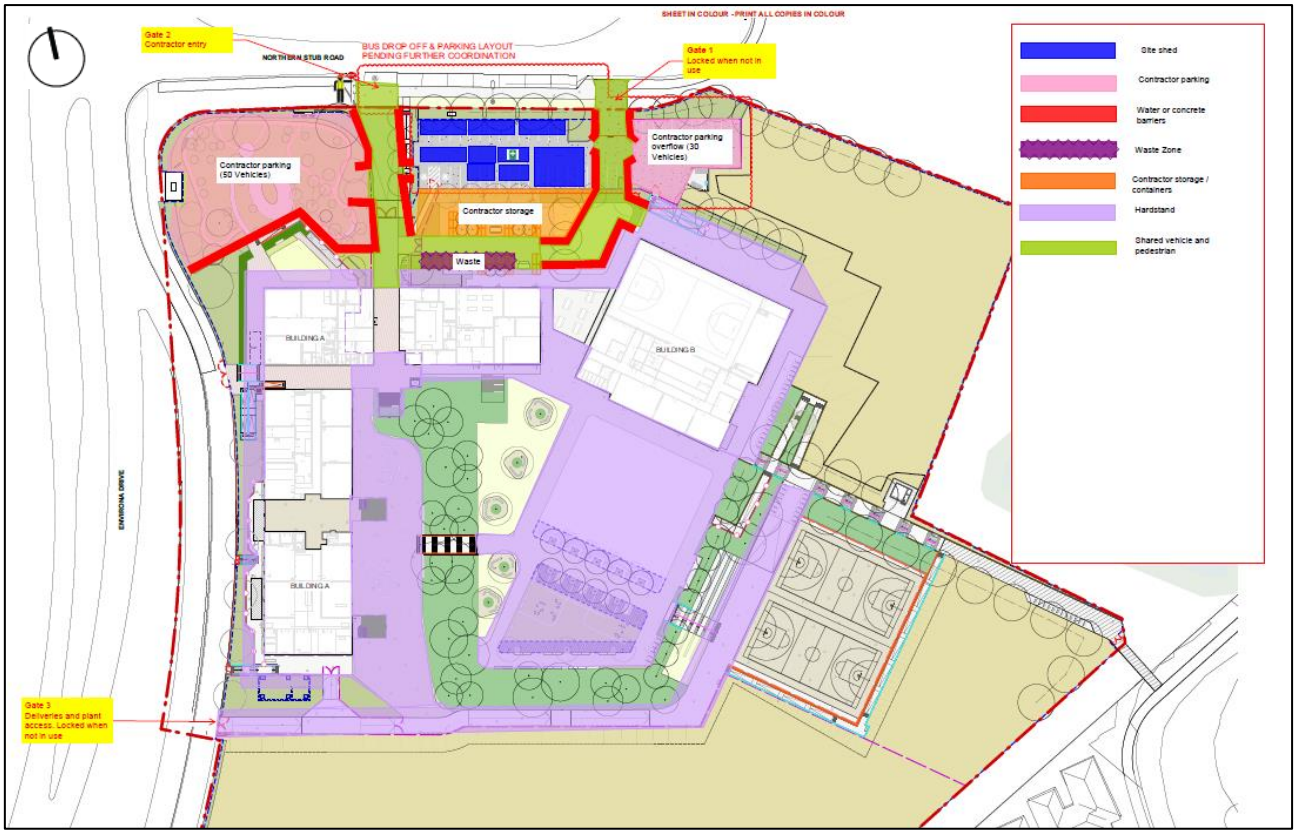

Figure 3 Construction access arrangement

Source: Hindmarsh

The primary construction compound will be set up within the new high school car park, as displayed in Figure 4.

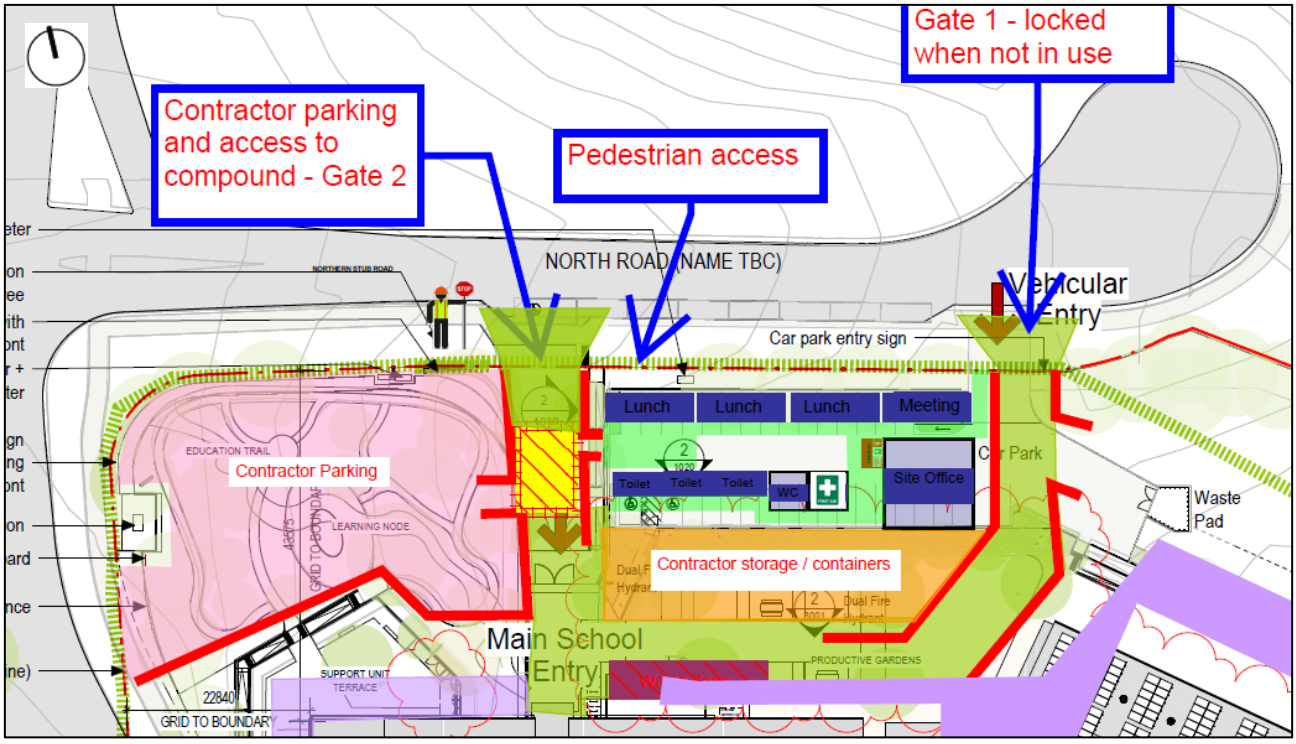

Figure 4 New high school in Jerrabomberra construction compound

Source: Hindmarsh

The following access arrangements will occur during the construction of the high school:

- All workers will access/egress the contractor car parking areas via Gate 2 on the stub road.
- Waste collection vehicles and delivery vehicles will enter the site via Gate 2, move through the site in an eastbound direction and exit the site via Gate 1.
- The majority of heavy vehicles will access/egress the site via Gate 2.
- Some heavy vehicles (including the cranes) will access and egress the site via Gate 3.

Gate 1 and Gate 3 will typically be locked when not in use. Any workers required to undertake works or traffic control shall be suitably trained and hold the required accreditation to carry out works on site and will also be site inducted. All traffic control personnel will be required to hold TfNSW accreditation in accordance with the TfNSW TCAWS manual.

An accredited traffic controller will be located on the stub road to manage the movement of vehicles.

There will be negligible connectivity for heavy vehicles between Gate 2 and Gate 3. Typically heavy vehicles will egress the construction site via the gate they entered it from.

2.3 Haulage routes

The TfNSW Restricted Access Vehicle (RAV) map identifies Lanyon Drive, and Tompsitt Drive as being authorised to accommodate vehicles up the size of 19 m B-double vehicles, as displayed in Figure 5.

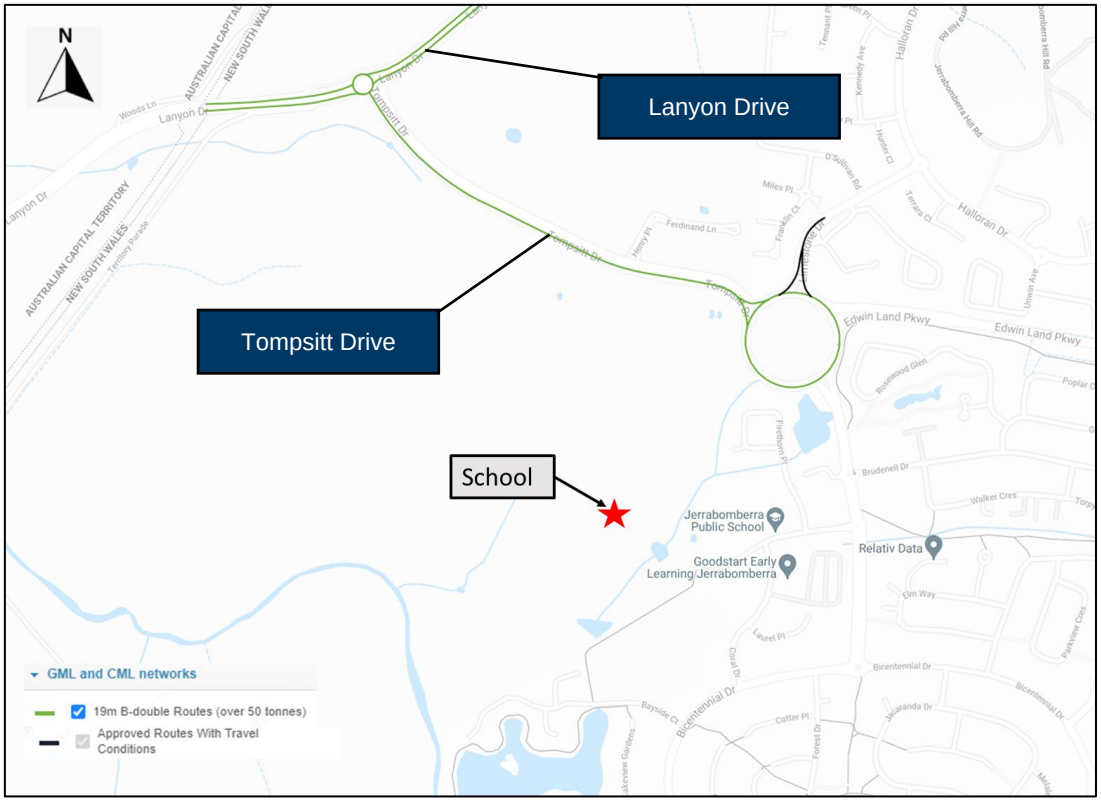

Figure 5 Restricted Access Vehicle (RAV) maps – 19 m B-double (NSW)

Source: https://roads-waterways.transport.nsw.gov.au/business-industry/heavy-vehicles/maps/restricted-access-vehicles-map/map/index.html

The ACT Government identifies the Monaro Highway and Lanyon Drive as being authorised to accommodate truck and dog trailers and higher mass limit (HML) vehicles (refer to Figure 6).

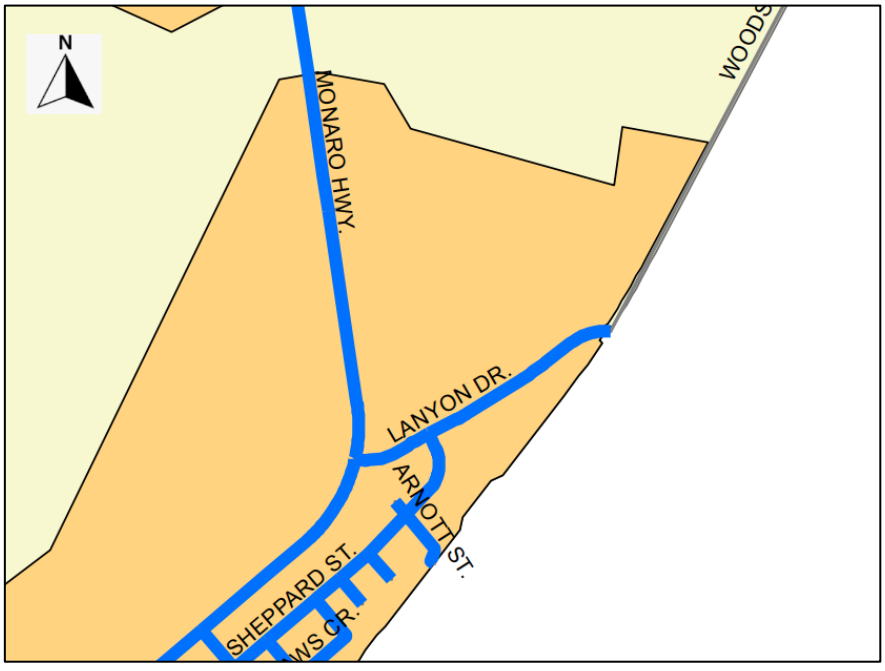

Figure 6 Truck and dog trailer and HML vehicle route

Source: https://www.cityservices.act.gov.au/roads-and-paths/restricted-access-vehicle-networks

It is expected that the majority of heavy vehicles and workers will access/egress the subject site to and from the nearby population/commercial centres of Queanbeyan and Canberra. The haulage route for the new high school in Jerrabomberra is displayed in Figure 7.

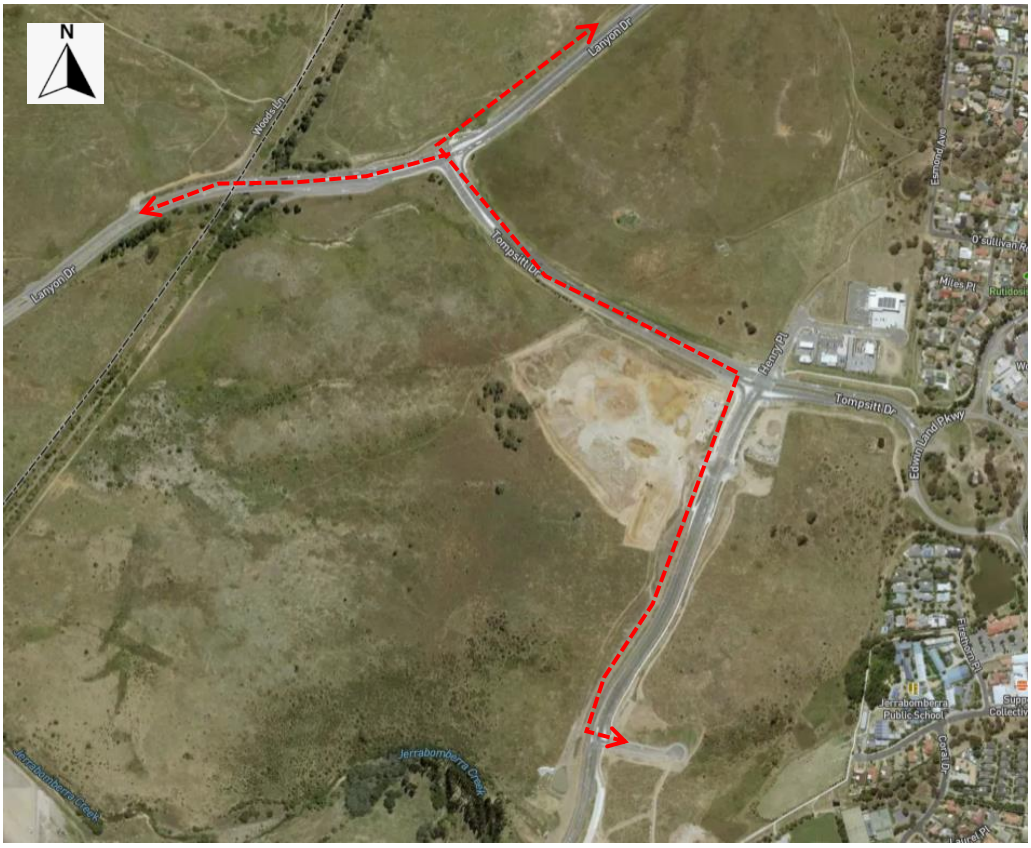

Figure 7 Haulage route

Source: MetroMap modified by GHD

In determining haulage routes during the construction of the new high school:

– The use of higher-order will be maximised.
– The use of local roads will be minimised.

Access and egress to the construction compound, including delivery and worker vehicles, will be provided via Environa Drive and stub road.

– All heavy vehicles will access the site from the north via Lanyon Drive and the signalised intersection of Tompsitt Drive and Environa Drive.
– All heavy vehicles will egress the site using the same roads towards Lanyon Drive.

As part of an induction, truck drivers will be informed of the designated haulage routes to and from the construction compound.

2.4 Road safety and network efficiency

2.4.1 General traffic

Environa Drive was recently constructed and opened to general traffic in 2021. While there is some construction activity associated with Poplars and South Jerrabomberra residential subdivision, the overall traffic volumes on Environa Drive during the construction of the new high school are expected to be minor.

Additionally, as there will be no direct vehicle access/egress to and from the construction site via Environa Drive, it is not expected that there will be any adverse impacts on the operation of Environa Drive during the construction of the high school.

The number of construction vehicles to access the site will need to be confirmed by the Contractor during the detailed construction planning stage. However, it is assumed that construction traffic volumes on the key roads included in the designated haulage route will be within typical daily traffic fluctuations[1] and will not adversely alter the operation of the existing road network condition. Furthermore, it is estimated construction activity will be less than the future operational activity of the developed site when the school becomes operational.

Notwithstanding the above, the Contractor will encourage carpooling for workers and maintain deliveries at staggered intervals and outside road network periods and incorporate them in the final Construction Traffic Management Plan.

Vehicles will be permitted to travel past the worksite on Environa Drive, with traffic signage in accordance with Traffic Guidance Schemes (TGSs) to be developed in accordance with Transport for NSW *Traffic Control at Works Sites Technical Manual* (TCAWS Version 6.1, 2022) and AS1742.3 – T*raffic Control for Works on Roads*. These will advise motorists of changes in the road network or vehicle movements to/from the site, including temporary roadwork speed limits or any “truck turning” activity.

The TGSs will need to be developed by the construction contractor as part of the final Construction Traffic and Pedestrian Management Plan (CTPMP) prior to commencing construction activity on the site. TGSs must be prepared by a certified professional, following TCAWS (2022). The Contractor will ensure all signage is erected in accordance with the TGSs and clearly visible. Each evening, upon completion of work, the Contractor will ensure signage is either covered or removed should such be required.

In the event of an emergency-related construction traffic incident on the public road network, it will be the responsibility of the Site Manager to ensure that emergency services are notified. The emergency services include but are not limited to:

– Fire
– Ambulance
– Police.

Phone “000” in cases of emergency.

If required, emergency services vehicles will access the car park or park on the roads adjacent to the subject site.

Furthermore, it is the responsibility of the Site Manager to advise the emergency services of any restriction of vehicular access to the public and private areas (1) one week prior to its implementation.

2.4.2 Pedestrians and cyclists

As the high school will not be operational and there are currently no other trip attractors in proximity to the school site, the volumes of pedestrians and cyclists on Environa Drive and the stub road are expected to be negligible during the construction period.

Traffic controllers will monitor the site during construction deliveries entering and exiting the site at each of the access/egress gates to ensure that people (including workers) in the vicinity of the site are protected from heavy vehicles movements into and out of the construction compound.

The final CTPMP incorporating the TGSs will need to be developed by the construction contractor and will need to consider the safe access for pedestrians and cyclists, which may include minor local diversion to alternate pedestrian and cycle facilities to avoid the construction works areas. Pedestrians and cyclists’ paths of travel are to be free of trip hazards and debris to minimise the risk of injuries and will be monitored throughout the works.

2.4.3 Impacts on public transport

There are no bus routes or bus stops on Environa Drive. Accordingly, the construction vehicle activity associated with the new high school will not impact bus services in Jerrabomberra.

[1] Based on the current morning and afternoon peak hour vehicle volumes at the intersection of Tompsitt Drive and Henry Place (2,300 - 2,400 veh/h), the construction vehicle activity is expected to result in an increase of (approximately) four percent) compared to the current situation.

2.5 Access to adjoining properties

There are no developments on the properties adjoining the high school site.

2.6 Construction parking

2.6.1 Heavy vehicles

Heavy vehicle activity, i.e. deliveries and waste collection, will occur within the construction compound.

Heavy vehicle arrivals will be coordinated to avoid queuing of vehicles outside the site as queuing of vehicles is not permitted on the public road network or in a position that will cause obstruction or safety issues to vehicles (or occupants), pedestrians or cyclists.

Vehicles are not to double park or queue to impact traffic and pedestrian thoroughfare and property access.

2.6.2 Light vehicles

As stated previously, up to 120 light vehicles are expected to access the construction compound per day. Assuming a car occupancy of 1.5 workers per vehicle (Section 2.1.2), a parking demand of up to 80 vehicles is expected.

As displayed in Figure 3, it is proposed to provide parking for up to 80 vehicles within the construction site, which will be suitable to accommodate the expected demand.

2.7 Swept path analysis

A high level swept path analysis has been undertaken for the movement of heavy vehicles, as follows:

– A waste collection vehicle (size 12.5 metre) entering the site via Gate 2 and exiting the site via Gate 1 (refer to Figure 8).
– A dog and truck trailer (25 metres) entering the site via Gate 2, travelling around Building B in a clockwise direction and exiting Gate 2 in a forward direction (refer to Figure 9)
– A dog and truck trailer (25 metres) and 60-tonne crane entering the site via Gate 3, manoeuvring through the site and exiting Gate 2 in a forward direction (refer to Figure 10 and Figure 11).

The design vehicles used in the swept paths were based on the 3rd Eddition of the "Austroads Design Vehicles and Turning Path Templates". In addition, the 2019 Liebherr LTF 1060-4.1 was used as the design template for the 60t crane.

It is noted that for the majority of the construction period trucks from Gate 2 will be able to traverse the footprint of Building B. While trucks from Gate 3 will turn around in the area designated for basketball courts.

`

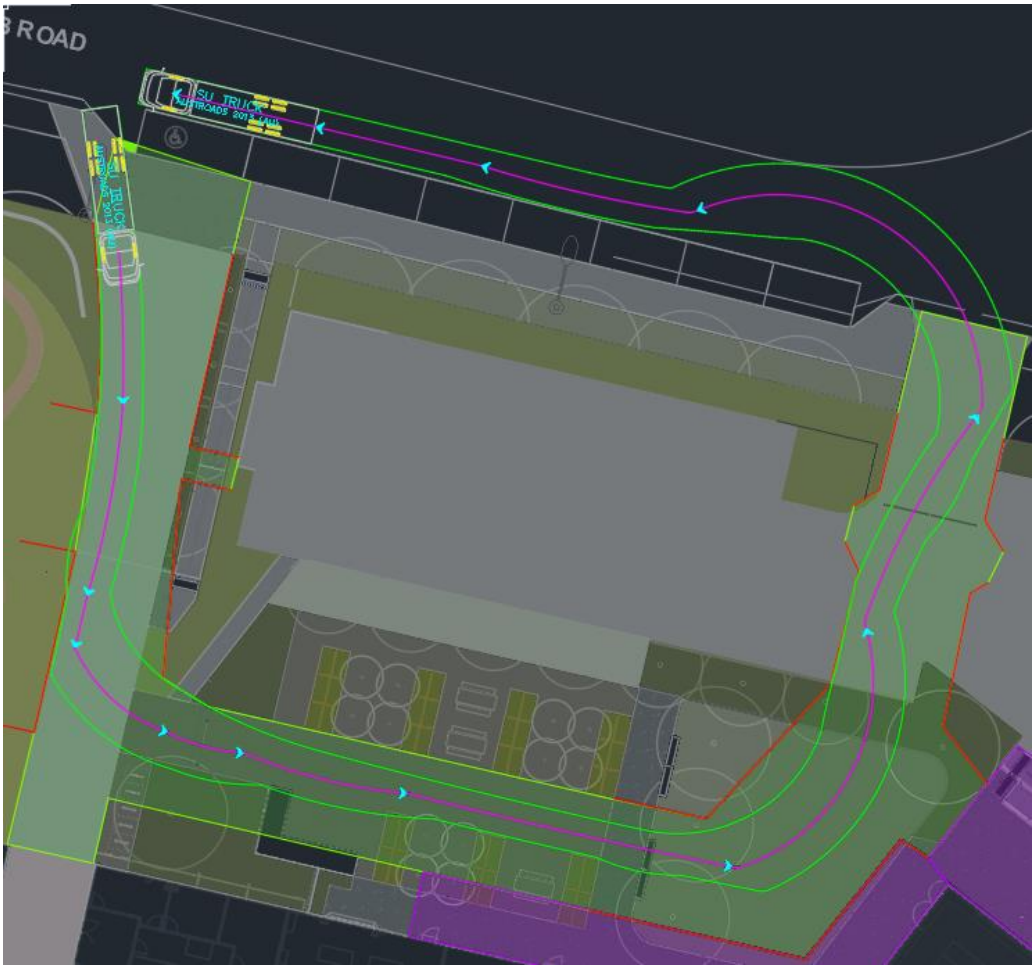

Figure 8 Waste collection vehicle

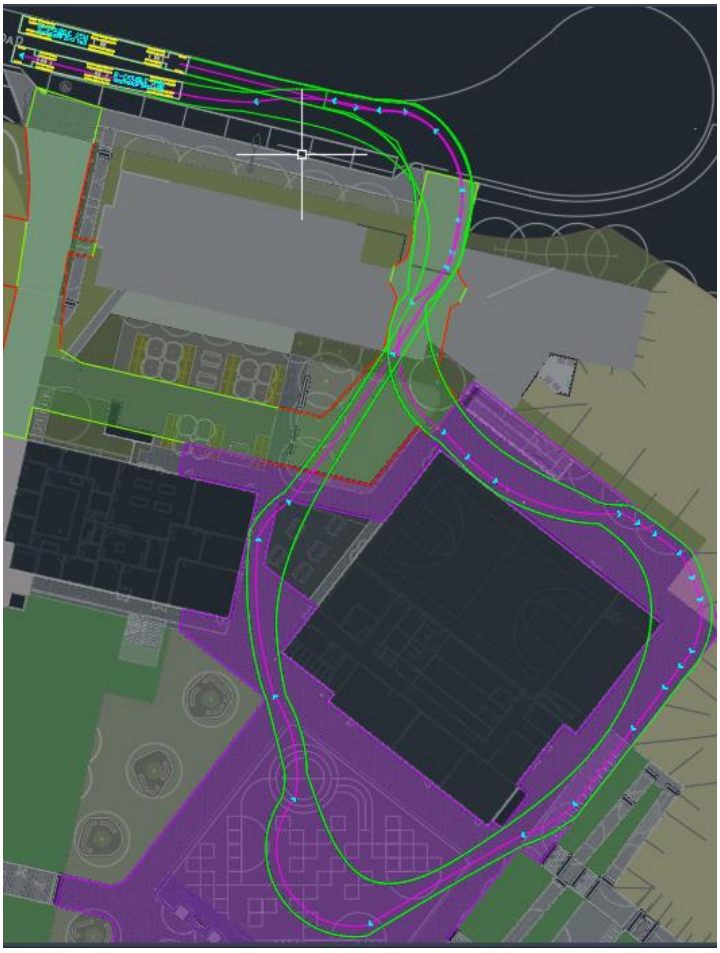

Figure 9 Dog and truck trailer – Gate 2

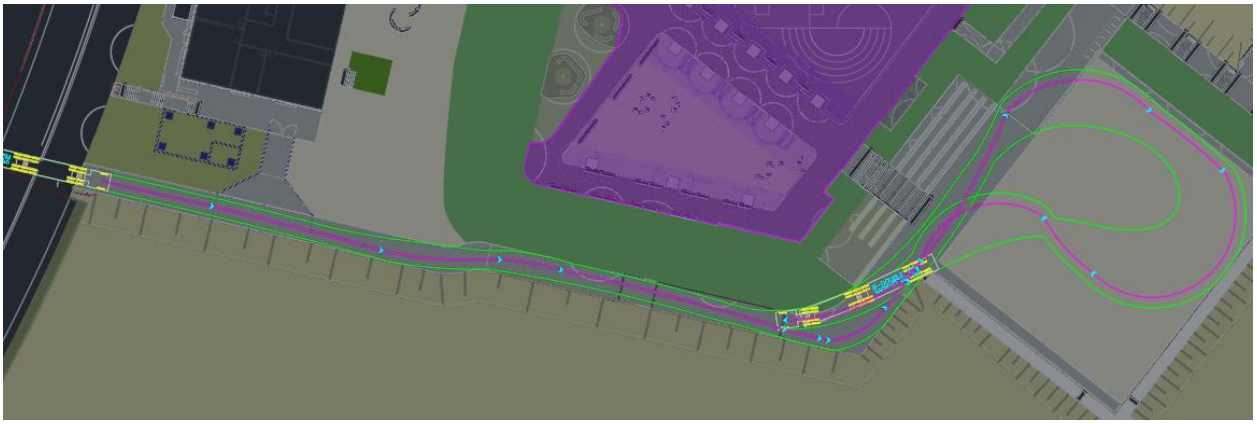

Figure 10 Dog and track trailer – Gate 3

Figure 11 60 tonne crane – Gate 3

Due to the physical space constraints, the swept path analysis for the 60 tonne crane indicates a reverse manoeuvre will occur within the school site. The final CTPMP will detail the extent of supervision by an accredited traffic controller required to support this manoeuvre.

3. Conclusion

This Preliminary Construction Traffic and Pedestrian Management Sub-Plan has been prepared for the new high school in Jerrabomberra outlining the management of construction vehicles, pedestrians and cyclists to assist in guiding future contractors in the overarching principles for the construction traffic management for the project.

A final CTPMP is to be developed by the engaged Contractor prior to construction commencement in consultation with governing authorities such as the local council, state road and transport authorities (where required).

It is expected that construction works will occur in a safe and efficient manner in accordance with the criteria identified in this report.

It is not expected that there will be any adverse impacts on the operation of Environa Drive during the construction of the high school.

`

Appendix A

GHD Staff CVs

Appendix B

Evidence of Consultation

Consultation Report			
SSD-24461956 - B14: Construction Traffic and Pedestrian Management Sub-Plan			
	The Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) must be prepared to achieve the objective of ensuring safety and efficiency of the road network and address, but not be limited to, the following		
	(b): be prepared in consultation with Council and TfNSW;		
Date	**Description**	**Content**	**Action**
3/08/2022	Documentation sent to QPRC and TfNSW for review	-	-
3/08/2022	Email received from TfNSW	TfNSW confirmed they will review and provide comments	Await further comments
5/08/2022	Email received from QPRC	Comments provided	Comments to be incorporated into Sub-plan
5/08/2022	Email sent to TfNSW and QPRC	Response to comments received	
8/08/2022	Email sent to TfNSW and QPRC	Follow up on phonecall with TfNSW	
9/08/2022	Email received from TfNSW	Comments provided	Comments to be incorporated into Sub-plan

[redacted]

Subject: RE: JHS: SSD Condition B14 - CTPMSP

Hi Emily,

Thanks for your email. TfNSW will review and provide comments.

Can any further emails please be sent to development.south@transport.nsw.gov.au.

Regards

[redacted]

Transport for NSW

I work flexibly. Unless it suits you, I don't expect you to read or respond to my emails outside of your normal work hours.

[redacted]

[redacted]

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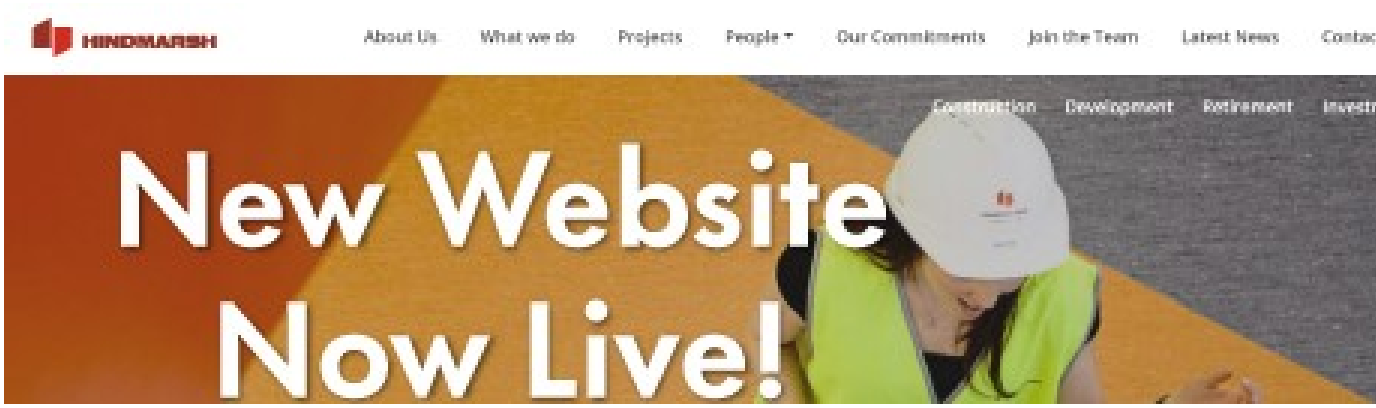

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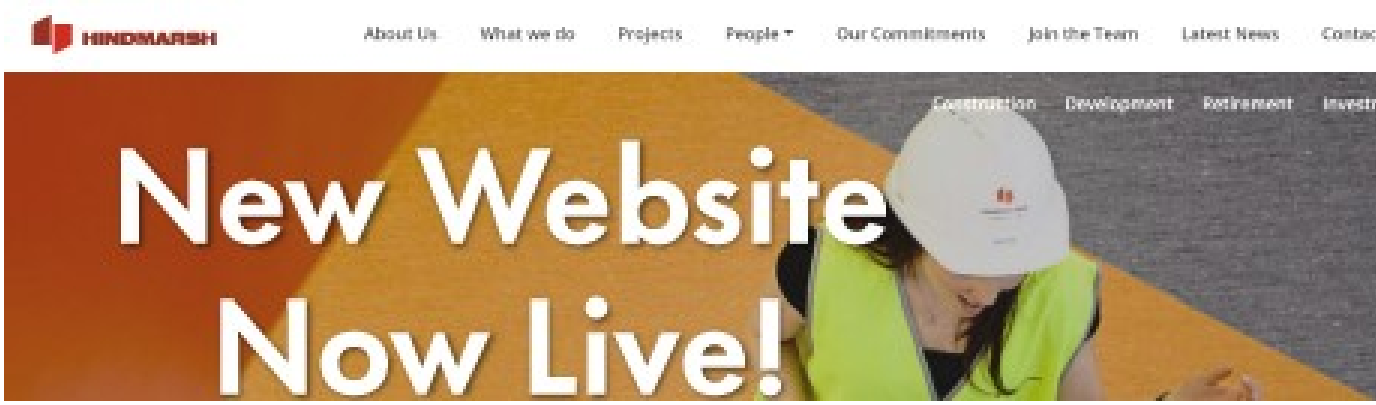

[redacted]

Attachments: Appendix E 12548316 Jerrabomberra CTPMSP Rev 3 - 5.8.22.pdf

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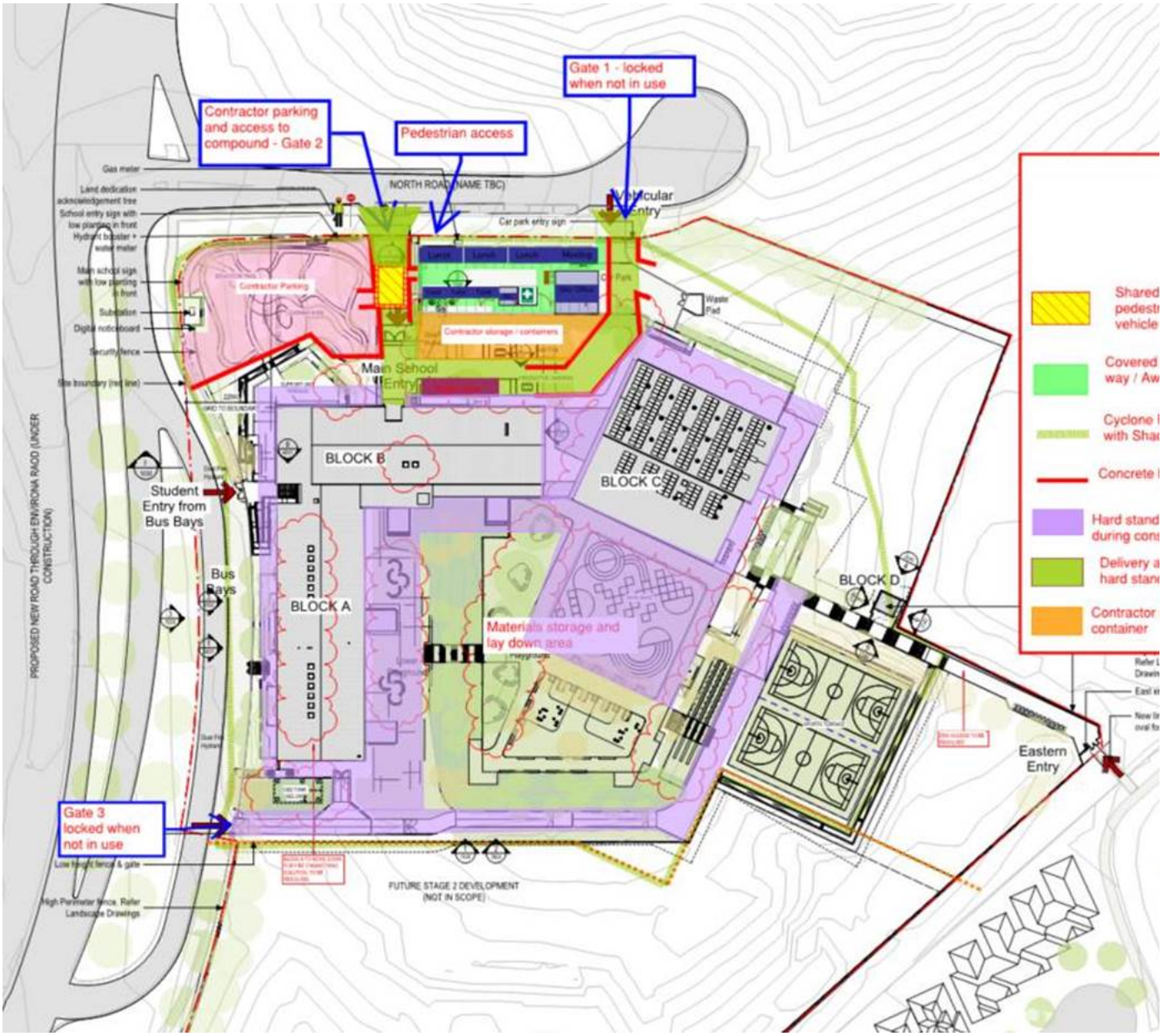

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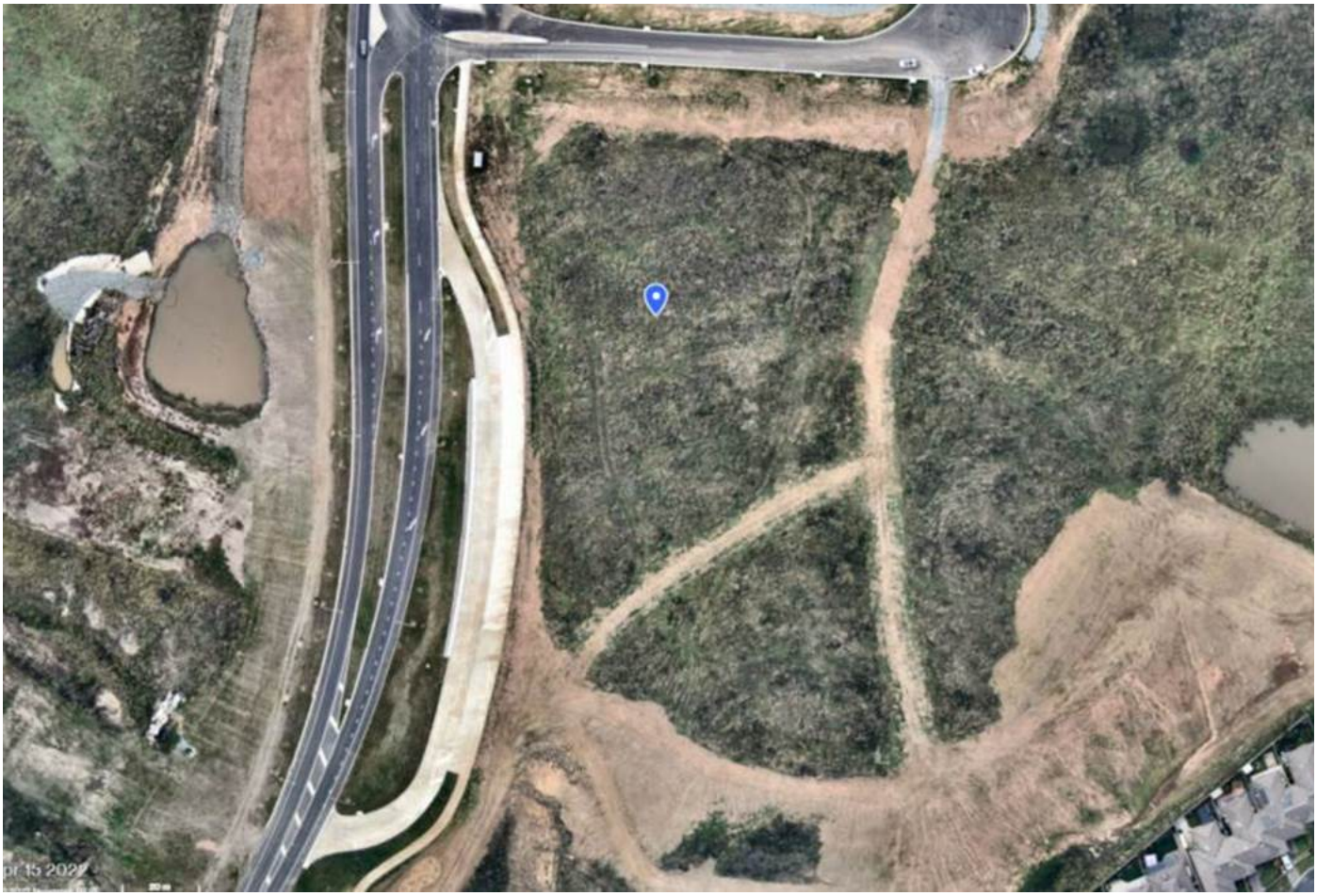
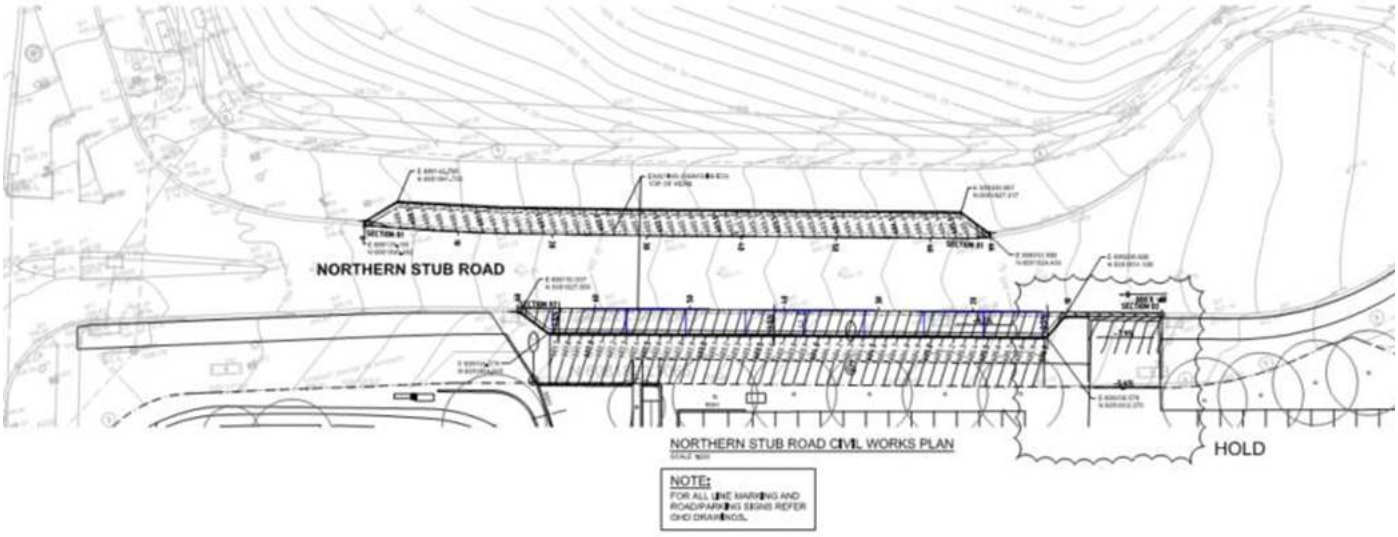
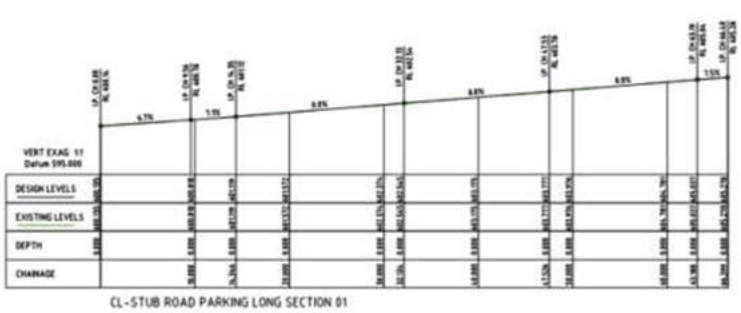
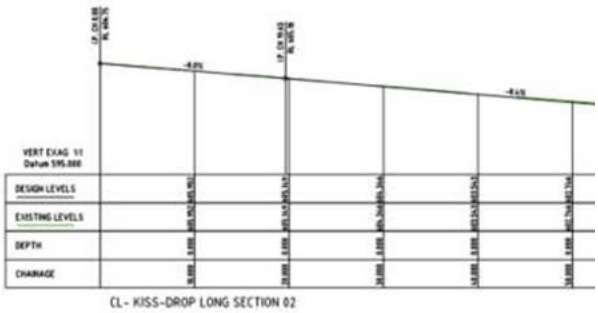


Additional scope – North stub road





CL-STUB ROAD PARKING LONG SECTION 01



CL- KISS-DROP LONG SECTION 02

[redacted]

[redacted]

Subject: RE: JHS: SSD Condition B14 - CTPMSP

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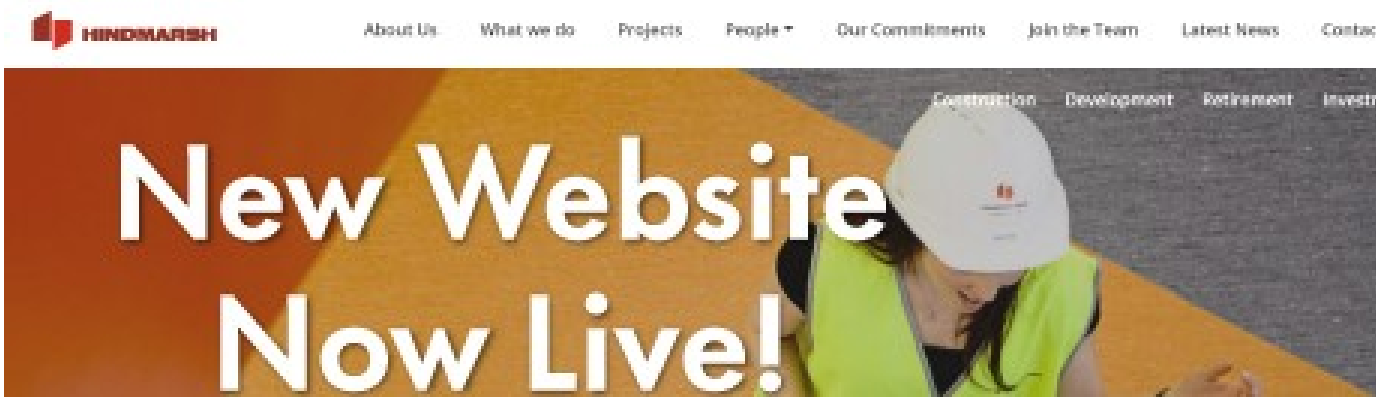

[redacted]

Subject: RE: JHS: SSD Condition B14 - CTPMSP
Attachments: Appendix E 12548316 Jerrabomberra CTPMSP Rev 3 - 5.8.22.pdf; 234021_C-PRE-M009 Temporary Traffic Management Plan (TTMP) Rev A FINAL - 02.08.22 NV.docx

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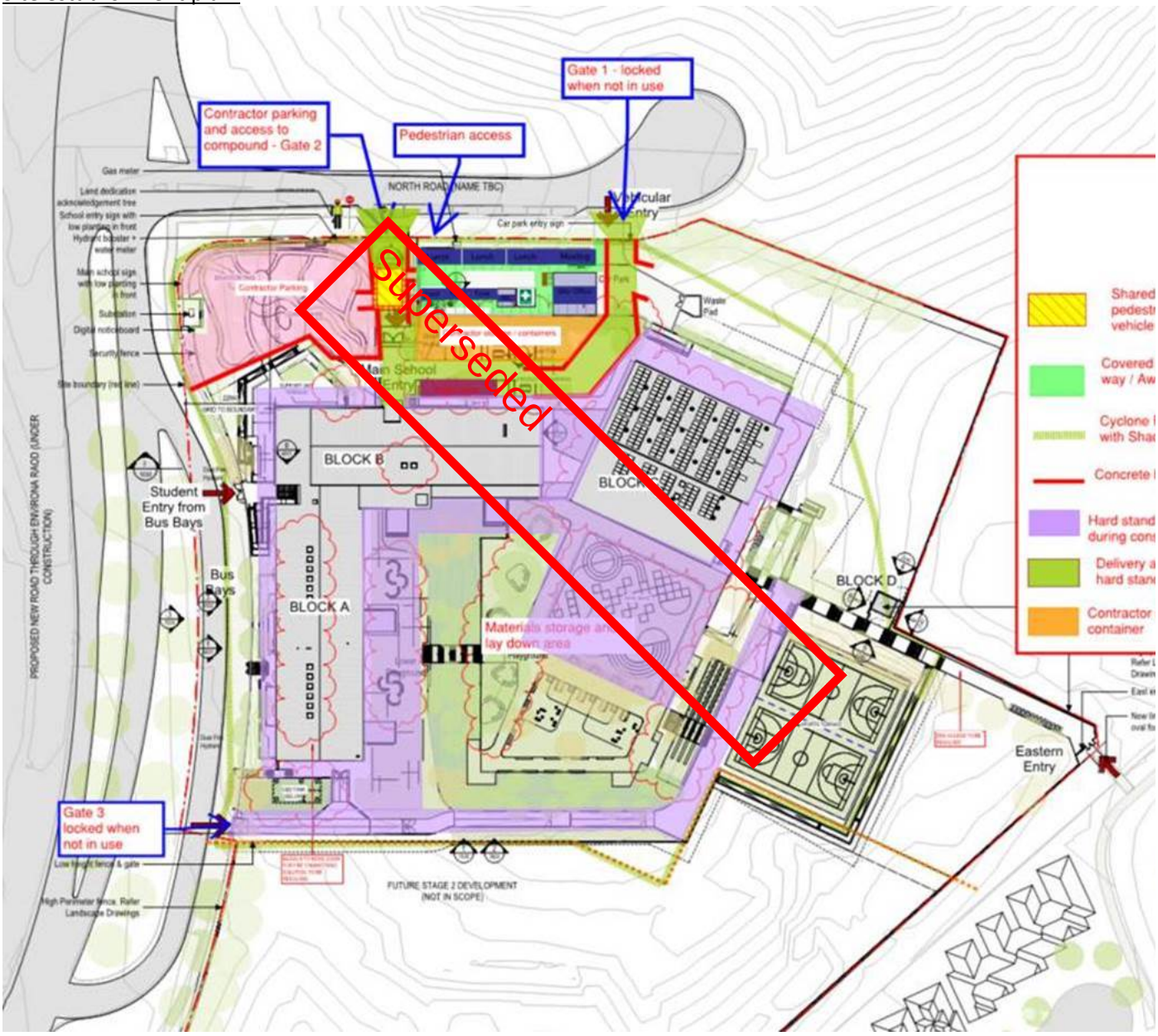

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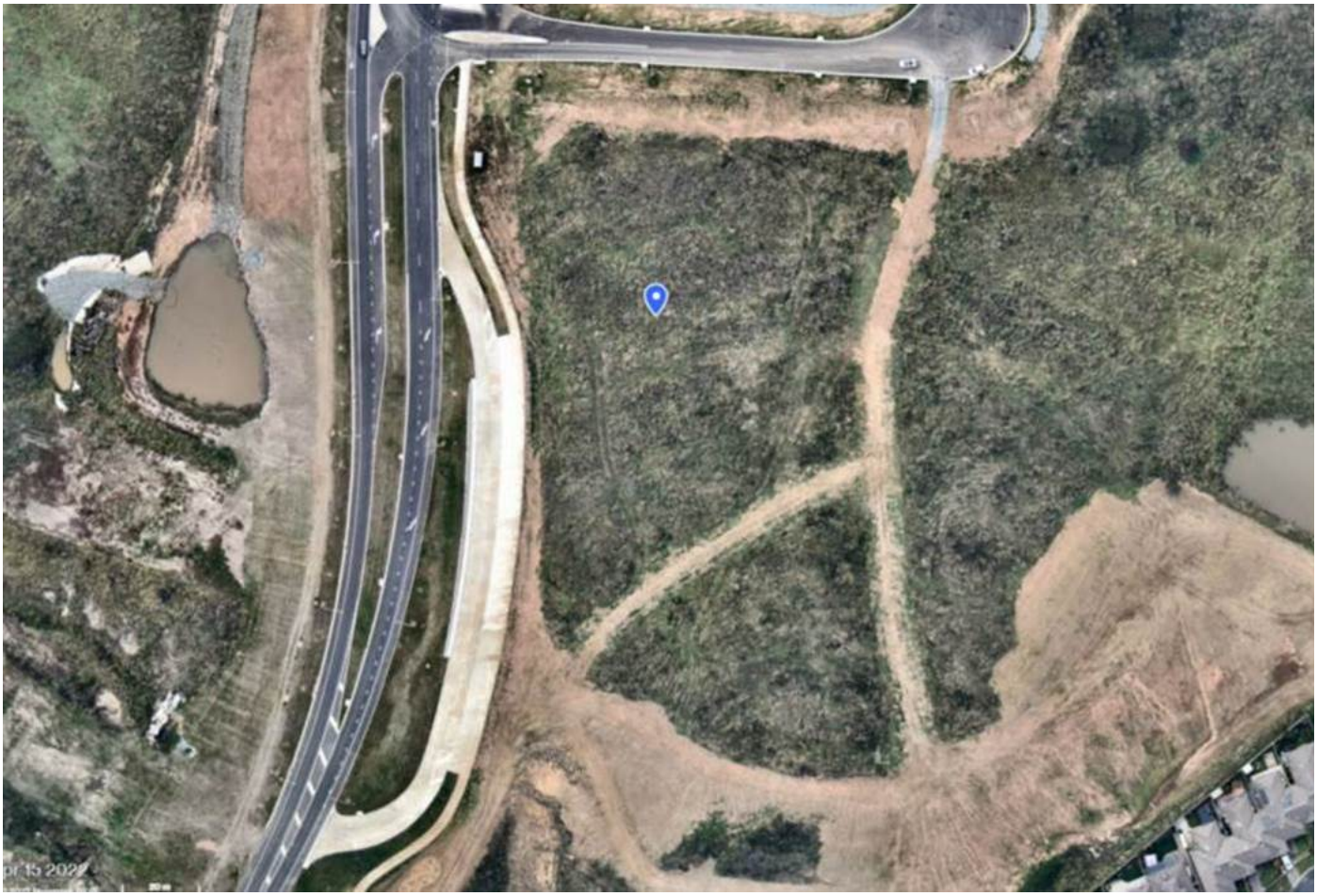

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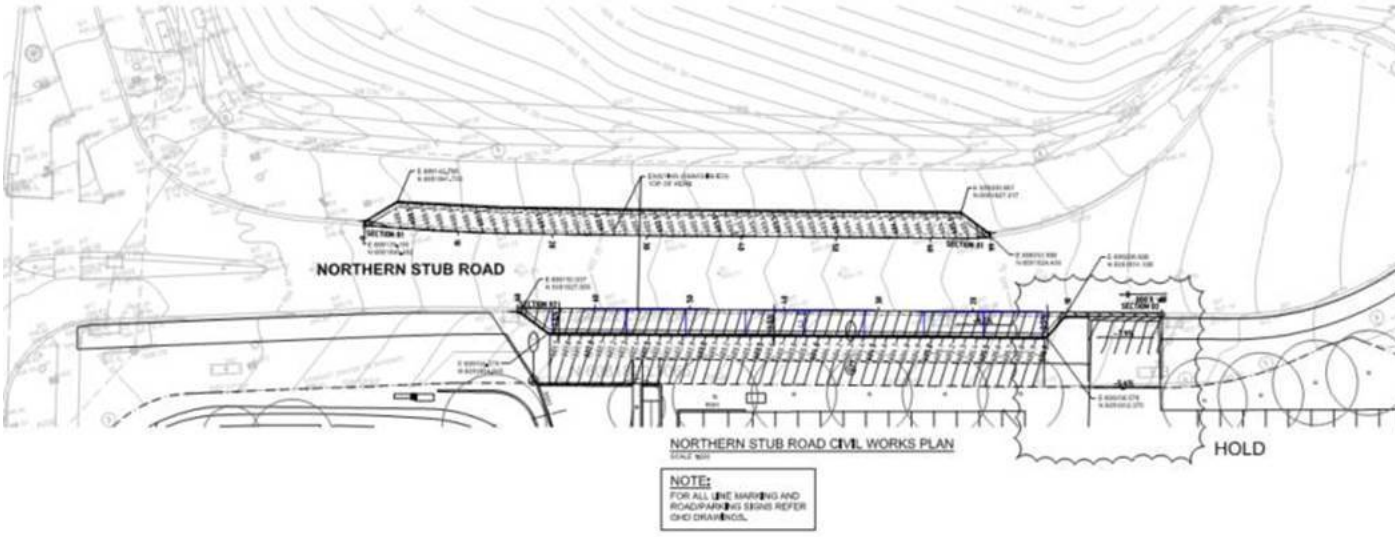

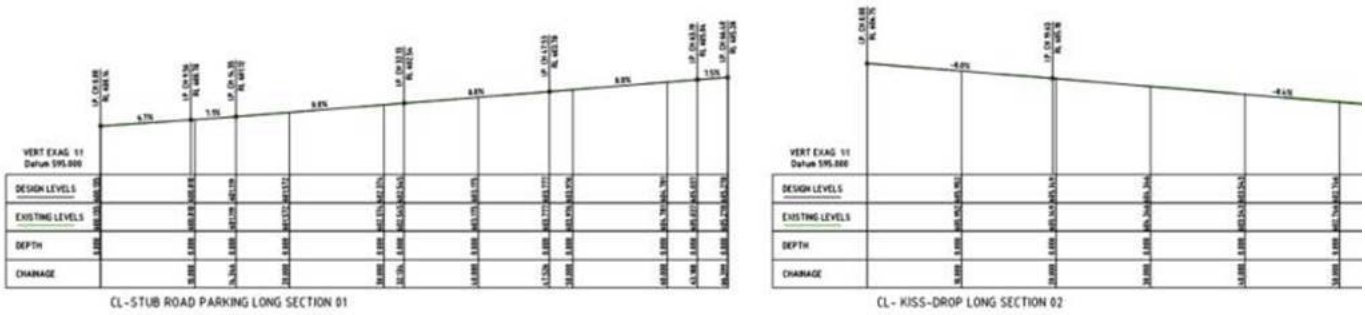

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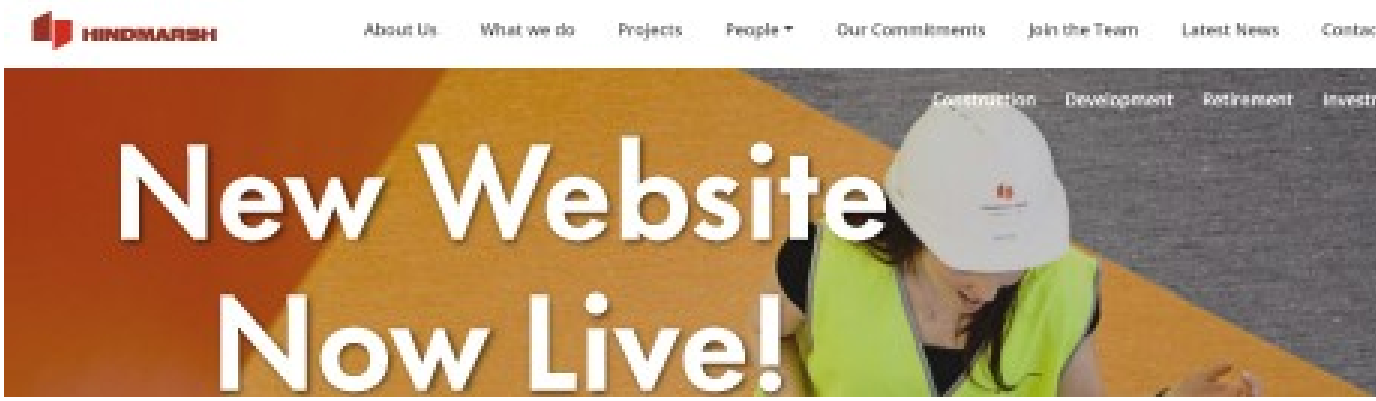

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Subject: TfNSW comments on 'Temporary Traffic Management Plan' and 'Preliminary Construction Traffic and Pedestrian Management Sub-Plan' (TfNSW Ref: STH18/00025/11)

Attachments: Appendix E 12548316 Jerrabomberra CTPMSP Rev 3 - 5.8.22.pdf; 234021_C-PRE-M009 Temporary Traffic Management Plan (TTMP) Rev A FINAL - 02.08.22 NV.docx

Follow Up Flag: Follow up
Flag Status: Flagged

[redacted]

Further to your emails below, the following comments are provided by Transport for NSW (TfNSW) on the 'Temporary Traffic Management Plan' and the 'Preliminary Construction Traffic and Pedestrian Management Sub-Plan' attached to this email.

1. Temporary Traffic Management Plan (Rev A Final dated 2/08/22):

   TfNSW is supportive of the comments provided by Queanbeyan-Palerang Regional Council (email below from Derek Tooth dated 5 August 2022). TfNSW notes that the works, noting their location and the information provided to date, will have no impacts on state classified roads (i.e. Lanyon Drive) or existing traffic signals on any road, and as such has no additional comments subject to the submitted/final Traffic Management Plan having been prepared by a suitably qualified person.

2. Preliminary Construction Traffic and Pedestrian Management Sub-Plan (Revision 2 dated 4/08/22):

   TfNSW notes the requirements of Part B, Condition B14 of the Development Consent issued for SSD-24461956 and advises that it has no objection to the Preliminary Construction Traffic and Pedestrian Management Sub-Plan (Revision 2 dated 4/08/22) subject to any over sized over mass (OSOM) loads that are required having obtained a National Heavy Vehicle Regulator (NHVR) OSOM permit for each OSOM load (this is obtained from the NHVR and not TfNSW as noted in Section 2.1.3). This will include demonstrating to NHVR that the arrangements for the route are acceptable.

   Should works be required within a state classified road reserve to facilitate OSOM loads, then a Works Authorisation Deed (WAD) with TfNSW, or another suitable arrangement as agreed to by TfNSW, for the works will be required to be in place and any required works completed to the satisfaction of TfNSW before the movement of that load commences. The final Construction Traffic and Pedestrian Management Sub-Plan shall be prepared by a suitably qualified person.

Regards

[redacted]

transport.nsw.gov.au
Level 4, 90 Crown Street
Wollongong NSW 2500

Transport for NSW

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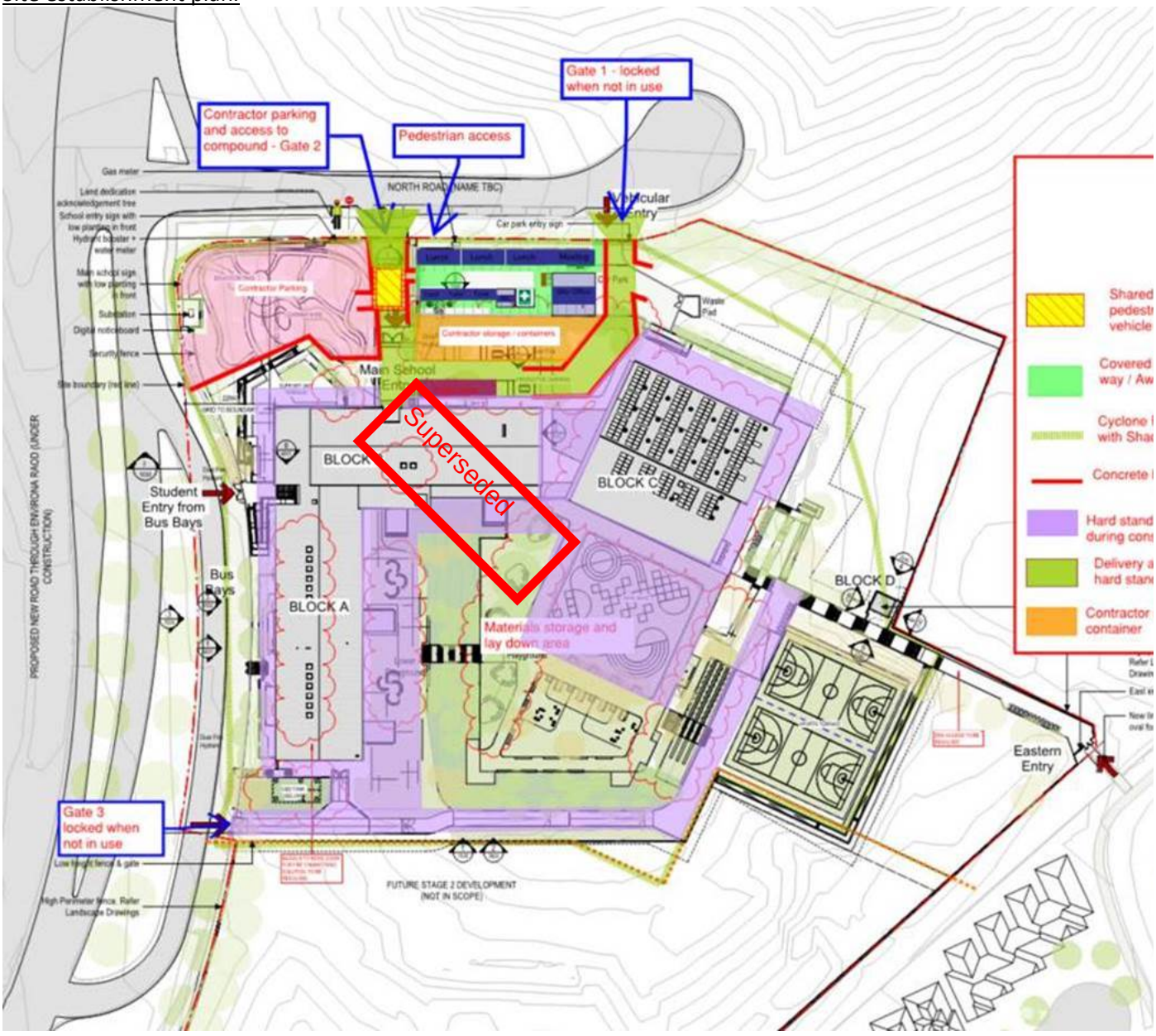

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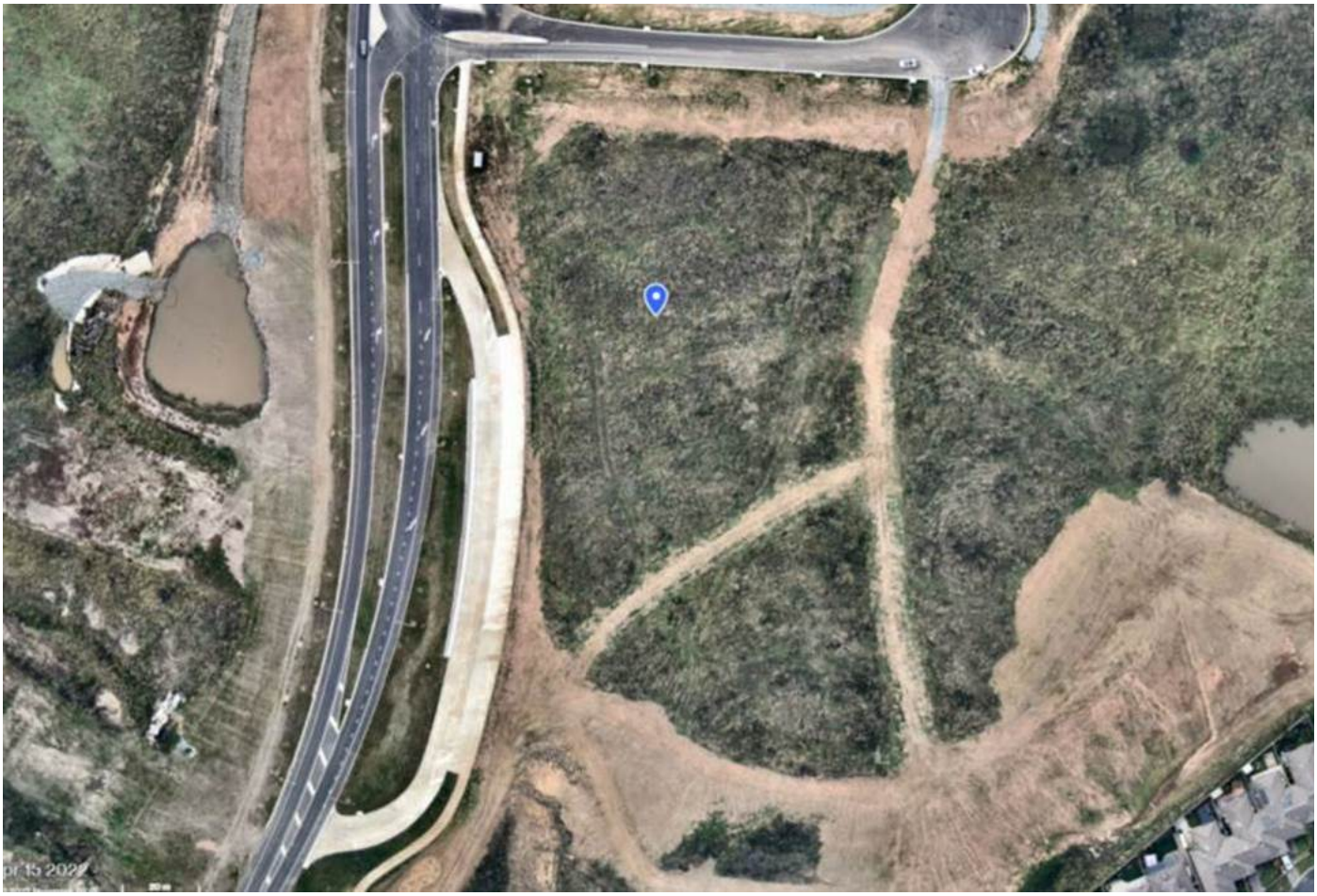

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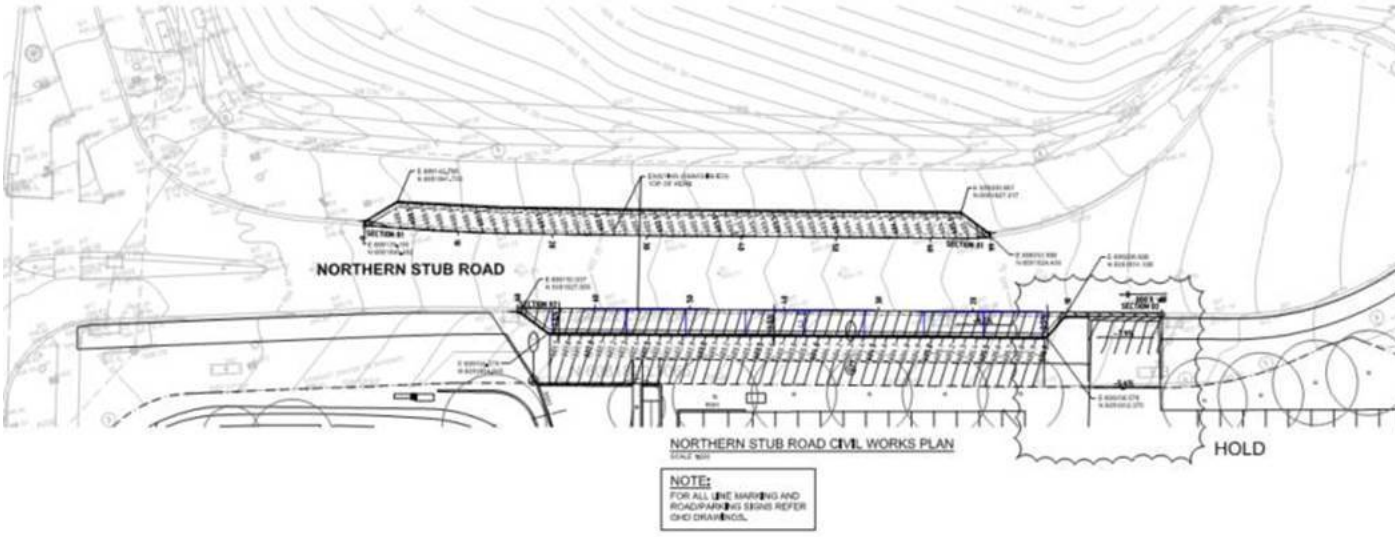

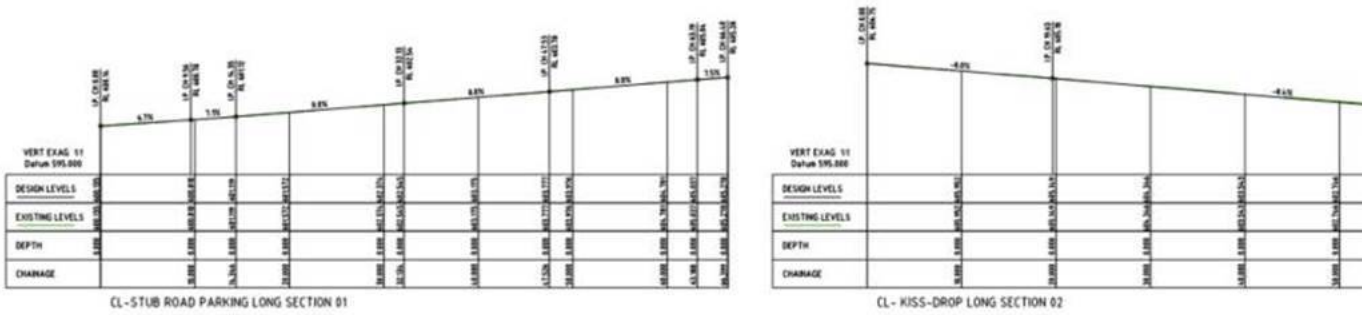

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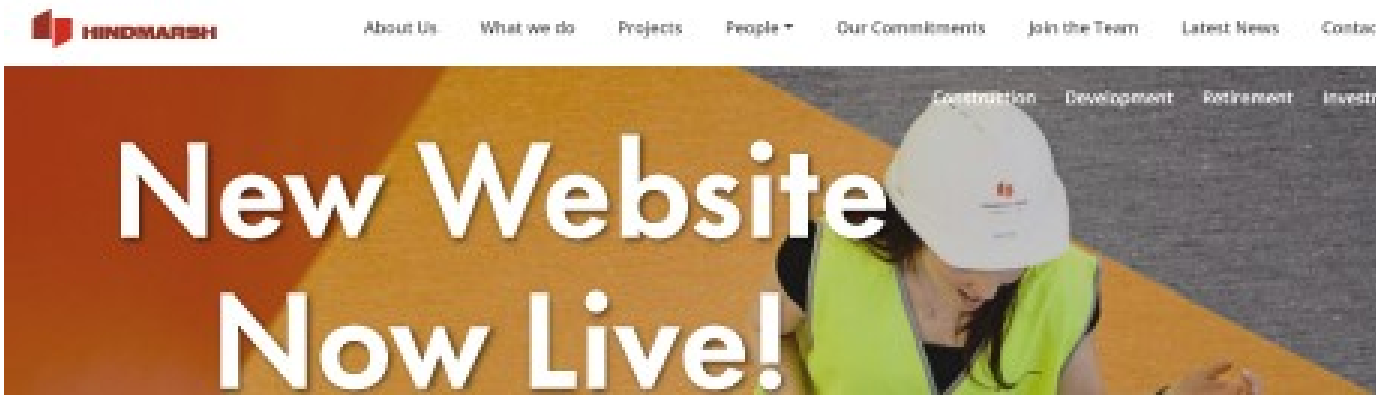

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The Power of Commitment