

Construction Environmental Management & Sustainability Plan (CEMP)

MONARO SCHOOLS CLUSTER – NEW HIGH SCHOOL AT JERRABOMBERRA - REV.17

Construction Development Retirement Capital



Table of Contents

1. Document Control – Revision History	5
1.1 Revision Status	5
1.2 SSd condition satisfaction table	6
1.3 Project Specifics	8
1.4 Approval for Implementation	9
1.5 EMP Induction	9
2. Purpose and Scope of EMP	9
2.1 Sustainability	10
2.2 Environmental Management System	10
2.3 Referenced Procedures and Documents.	10
3. Project Information	10
3.1 Description (Scope)	10
3.2 Hours of operation	11
3.3 24hr Emergency contact (HCA)	11
4. Environmental and Sustainability Strategy, Policy, Objectives and Targets	12
4.1 Strategy	12
4.2 Policy	12
4.3 Company Objectives and Targets	12
4.4 Project Objectives and Targets	12
5. Resource Management	12
5.1 Responsibility and Authority	13
5.2 Environmental Training Requirements	13
6. Compliance	13
6.1 Legislative \ Regulatory	13
6.2 Monitoring \ Changes to: Acts, Regulations, Code of Practice and Australian Standards (Subscription)	14
6.3 Access to and communication of Legal Requirements / Australian Standards	14
7. Risk Management	14
7.1 Introduction	14
7.2 Environmental Aspects and Impacts	14
7.3 Environmental Impact Guides – EIG's. Doc. No: C-PRE-M005 Rev. No: 17 Construction Environmental Management & Sustainability Plan	2
	(CEMP)

7.4 Design and Review Changes	15
7.5 Construction soil and water management plan	16
8. Hazard Reporting	17
9. Emergency \ Incident Management	17
9.1 Incident Management	17
10. Communication \ Consultation	18
10.1 Introduction	18
10.2 Meetings \ Representative \ Other Agreed Arrangements	18
10.3 Key Stakeholder, Community and Authorities Communications \ Consultation	19
10.4 Communication Summary	19
10.5 community consultation and complaints handling	20
11. Induction and Visitor Management	21
11.1 Visitor Induction	22
11.2 Driver code of conduct	22
11.3 Contractor Parking	22
12. Checking	23
12.1 Monitoring and Measurement	23
12.2 Non-conformity, Corrective and Preventive Action	24
12.3 Auditing	24
12.4 Inspection (evaluation of compliance)	24
12.5 MONITORING REQUIREMENTS	24
13. Reporting	25
13.1 Weekly Reporting Requirements	25
13.2 Monthly Reporting Requirements	25
13.3 Client & External Reporting Requirements	25
13.4 Regulatory Reporting Requirements – EPA	25
14. Document and Record Management	26
14.1 Customised Compass Templates	27
15. Subcontractor Management	27
16. Project Environmental \ Sustainability Information & Particulars	28
16.1 Existing Environmental Conditions of Site	28
16.2 Dilapidation Report	28
16.3 Heritage \ Cultural Considerations	28

16.4 Geotechnical Report	29
16.5 Contamination \ Remediation Report	29
16.6 Unexpected finds protocol (Known Health Hazard)	29
16.7 Unexpected finds protocol (Asbestos, contamination or archaeological finds, Aboriginal Heritage or Non-aboriginal Heritage finds)	29
16.8 Noise, Dust & vibration management	30
16.10 Light polution	31
16.11 Waste Management	31
16.12 Additional Reports	32
16.13 Project Specific Sustainability Initiatives	32
16.14 Environmental Management Sub-Plans	32
16.15 Construction Traffic and Pedestrian Management Sub-pan	32
16.16 Site Setup – Accommodation and Amenities Management	33
APPENDIX A – ENVIRONMENTAL AND SUSTAINABLITY POLICY	35
APPENDIX B – ENVIRONMENTAL FETAURES AND SOIL AND WATER MANAGEMENT	26
37	
APPENDIX D – PROJECT & ENVIRONMENTAL RISK ASSESSMENT	
APPENDIX E – Construction Traffic and Pedestrian Management Plan	
APPENDIX F – Flood Emergency Response	42
APPENDIX G – Construction Waste Management	45
APPENDIX H – Construction Noise and Vibration Management	46
APPENDIX I – EMP Preparation checklist	47
APPENDIX J – Poplars EPBC Management Plan	48
APPENDIX K – Aviation Wildlife Assessment	48

1. Document Control – Revision History

1.1 REVISION STATUS

Approved revisions to this document may be independently issued.

Date Issued	Revision	Details	Section	Page	Approval
14/07/22	Rev 8 - NV	Final – formatting and conditions table	All	All	
19/07/22	Rev 9 NV	Final – formatting and conditions table	All	All	
20/07/22	Rev 10 NV	Final	All	All	
01/08/22	Rev 11 NV	Final amended	All	All	
04/08/22	Rev 12 NV	Final amended & internal review	All	All	
05/08/22	Rev 13 NV	Final amended – TSA and SINSW comments inc	All	All	
12/08/22	Rev 14 NV	Final with QPRC comments	All	All	
21/09/22	Rev 15 NV	DPE comments incorporated			
		Typo corrected	Condition satisfaction table	4	
		Updated unexpected finds protocol	Section 16.7	11	
		Updated reference to EPBC Poplars document added	Section 16.8	31	
		Updated opening hours information to include noisy works condition C7	Section 16.1	11	
		Waste management plan update to include Subcontractor details and revision number	Appendix G	46 & C.3 and C.3 of CWMP	
		Preconstruction reference B16 changed to B15	Appendix H	5 of sub-plan	
		Mitigation measures added	Section 16.1	29	
		Updated and accepted by civil contractor	Appendix B	38 of CEMP	
		Updated plan sent to QPRC 9/9/22 for further comment, noting no changes from last review and expect QPRC's approval	Appendix B	Awaiting QPRC response - 38	
		Acknowledgement of Douglas Partners and dated 16 September 2021	16.7 and 16.7	30-31	
14/04/23	Rev 16 NV	Update of sediment and erosion control plan + update of emergency contact details	3.3, 7.5 & Appendix B	11, 16 & 37	
01/09/2023	Rev 17 NV	Milestone date update Emergency contact detail update Visitor management diagram update Site set up diagram update	Part 3 P11 P22-23 P33-34	P10 P11 P22-23 P33-34	James Last Senior Project Manager

1.2 SSD CONDITION SATISFACTION TABLE

Condition	Condition Requirement	Document / SubPlan Reference
B12	Management plans required under this consent must be prepared having regard to the relevant guidelines, including but not limited to the Environmental Management Plan Guideline: Guideline for Infrastructure Projects (DPIE April 2020). Notes: The Environmental Management Plan Guideline is available on the Planning Portal at: https://www.planningportal.nsw.gov.au/majorprojects/assessment/postapproval The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.	Appendix I Page 47
B13	Prior to the commencement of construction, the Applicant must submit a Construction Environmental Management Plan (CEMP) to the Certifier and provide a copy to the Planning Secretary for information. The CEMP must include, but not be limited to, the following: (a) Details of: (i) hours of work; (ii) 24-hour contact details of site manager; (iii) management of dust and odour to protect the amenity of the neighbourhood; (iv) external lighting in compliance with AS 4282-2019 Control of the obtrusive effects of outdoor lighting; (v) community consultation and complaints handling as set out in the Community Communication Strategy required by condition B9;	i) - Section 3.2 Page 11 ii) - Section 3.3 Page 11 iii) - Section 16.8 page 32 iv) - Section 16.10 page 31 v) - Section 10.3 page 19-21
	(b) an unexpected finds protocol for contamination and associated communications procedure to ensure that potentially contaminated material is appropriately managed;	Section 16.6 page 30 -31

	(c)	an unexpected asbestos finds protocol and associated communications procedure prepared in accordance with the recommendations of the Report on Limited Contamination Assessment (Document No. R.002.Rev3), prepared by Douglas Partners and dated 16 September 2021 to ensure that any asbestos or suspected asbestos material is appropriately managed (this must include fencing off and assessment of any suspected asbestos material found by an NSW licensed asbestos assessor);	Section 16.7 Page 30-31	
	(d)	an unexpected finds protocol for Aboriginal and nonAboriginal heritage and associated communications procedure;	Section 16.7 Page 30-31	
	(e)	the Poplars EPBC Act Construction Environmental Management Plan (EPBC No. 2020/8801), prepared by Indesco and dated 17 October 2021;	Appendix J Page 48	
	(f)	the construction phase mitigation measures detailed in the Aviation Wildlife Hazard Assessment, prepared by Alison Rowell and dated February 2022;	Appendix K Page 49 Section 6 Page 13	
	(g)	Construction Traffic and Pedestrian Management Sub-Plan (see condition B14);	Appendix E Page 42	
	(h)	Construction Noise and Vibration Management Sub-Plan (see condition B14);	Appendix H Page 46	
	(i)	Construction Waste Management Sub-Plan (see condition B16);	Appendix I Page 45	
	(j)	Construction Soil and Water Management Sub-Plan (see condition B17); and	Appendix B Page 37 of CEMP	
	(k)	Construction Flood Emergency Management Plan (see condition B18).	Appendix K Page 43	
B19	I	iver Code of Conduct must be prepared and communicated by pplicant to heavy vehicle drivers and must address the wing:	-	
	(a)	minimise the impacts of earthworks and construction on the local and regional road network;	Section 11.2a Page 22	
	(b)	minimise conflicts with other road users;	Section 11.2b Page 22	
	(c)	minimise road traffic noise; and	Section 11.2c Page 22	
	(d)	ensure truck drivers use specified routes.	Section 11.2d Page 22	

B20	Cons	struction Parking	Section 11.3		
	Prior to the commencement of construction, the Applicant must provide sufficient parking facilities on-site, including for heavy vehicles and for site personnel, to ensure that construction traffic associated with the development does not utilise public and residential streets or public parking facilities.				
B21	Floo	d Emergency Management – Construction Phase	Appendix F		
	Prior to the commencement of construction, the Applicant must prepare and implement for the duration of construction:		Page 43 Section 34 Page 10-18 (sub-plan)		
	(a)	flood warning and notification procedures for construction workers on site;	Appendix F Page 43 Section 3.2 - 3.2.2 page 10, Section 3.7 Page 16 - 17 (sub-plan)		
	(b)	appropriate management of materials on site; and	Appendix F Page 43 Section 3.3.1 Page 11 (sub-plan)		
	(c)	evacuation and refuge protocols.	Appendix F Page 43 Section 3.5 & 3.6 Page 15 & 16(subplan)		

1.3 PROJECT SPECIFICS

Company Name:	Hindmarsh Construction Australia Pty Ltd
ABN:	15 126 578 176
Project:	Monaro Schools Cluster – New High School at Jerrabomberra
Project No:	2045
Location:	Jerrabomberra High school 101 Environa Dr, Jerrabomberra NSW
Client:	Department of Education - SINSW

Contract:	GC 21 (Edition 2) with amendments - Contract number SINSW 01204-20
	New High School built in two stages. First stage to accommodate 500 students. Comprising 25 GLS, Hall, Admin, Library, Carparks and outdoor areas

1.4 APPROVAL FOR IMPLEMENTATION

This revision of the Environmental Management and Sustainability Plan (CEMP) has been reviewed by the Project Manager, it complies with environmental aspects of Compass and contractual obligations and is authorised for use.

1.5 EMP INDUCTION

Every Project Hindmarsh employee receives induction training into the purpose and use of this EMP. Each acknowledges that they fully understand this EMP's requirements and their roles \responsibilities associated with it..

Key elements of this EMP have be extracted for inclusion in the project specific site induction training which is given to all employees, subcontractors and site workers prior to commencing works on site.

2. Purpose and Scope of EMP

Hindmarsh operates a fully integrated Business Management System, known as Compass which incorporates our Safety, Quality and Environment business systems.

This EMP describes the environmental strategy, methods, controls, and requirements to be implemented during the execution of the project. The purpose of this EMP is to:

- Ensure company environmental objectives and targets are achieved
- Identify the environmental issues (impacts and aspects) for this project;
- Establish, communicate and implement controls to reduce any adverse impacts on the environment which may arise from project's activities, products and services;
- Identify controls which will be implemented to mitigate high risk environmental impacts, which may eventuate during construction.
- Ensure Hindmarsh, its suppliers and subcontractors comply with all relevant environmental legislation, any applicable licenses, approvals, permits and regulatory requirements;
- Ensure works are managed to reduce adverse impacts on the environment;
- Action any outcomes from environmental incidents or accidents, project audits or other identified non-conformances and to continually improve the Environmental Management System elements within Compass; and
- Establish project-specific objectives and targets (where appropriate), and identify strategies
 and evidence in support of their achievements.

This EMP is intended to stand alone as the master document for the management of all site environmental activities. It should, however, be read in conjunction with other management plans, referenced appendices and documents, including;

- Project Management Plan (PMP)
- Emergency Management Plan (EMMP)
- Safety Management Plan (SMP)
- Temporary Traffic Management Plan (TTMP)
- Quality Management Plan (QMP)

2.1 SUSTAINABILITY

Responsible Environmental Management extends far beyond that of simple mitigation measures. Sustainability embraces environmental, social and economic accountability. Hindmarsh seeks, with its project partners, to reduce those negative impacts and maximise benefits related to all three areas across the entire project life cycle. Fundamentally, our environmental strategy and EMP requires every project to consider:

- A reduced resource consumption
- reuse of resources
- use and support of recyclable resources
- protection of the natural environment
- elimination of toxic substance \ material use
- · focus on quality

2.2 ENVIRONMENTAL MANAGEMENT SYSTEM

Hindmarsh operates an Environmental Management System as per the requirements of AS14001:2004 and the NSW Government Environmental Management System Guidelines Edition 2. The system has been independently certified as meeting the requirements of both. Please refer to the Compass Manual for further information regarding the Hindmarsh Management System.

2.3 REFERENCED PROCEDURES AND DOCUMENTS

Documents, procedures, and forms supporting this EMP have been referenced accordingly throughout this plan. Please refer to the <u>Environmental Management and Sustainability Process Map</u> for instruction and guidance information relating to these documents. Compass documents detailed within this plan are identifiable by title and are formatted in <u>italics and underlined</u>.

2.3.1 Client \ Project Specific Documents

The following project specific environmental \sustainability related documents have been referred to in the preparation of this EMP:

 Poplars EBC Act Construction Environmental Management Plan EPBC no. 2020/8801 dated October 2021

3. Project Information

3.1 DESCRIPTION (SCOPE)

Please refer the Hindmarsh Project Management Plan document, specific to this project, for the full detailed project description information. The new high school in Jerrabomberra will accommodate 500 students and the key components include:

- General Learning Spaces, Wood/metal workshop, Science labs & Visual Arts workshop, Admin facilities & Library – Block A&B
- Multi-purpose Hall & change facilities Block C,
- Amenities Block D
- · Basketball court

Carpark

The project will commence construction in August of 2022 with a projected completion date in September of 2023.

- Milestone 1 Site possession HCA (08/08/22)
- Milestone 2 Structure completion (09/03/23)
- Milestone 3 Fitout completion (15/11/23)
- Milestone 4 External works completion (06/12/23)

3.2 HOURS OF OPERATION

Site operating hours for construction activities will be in accordance with the development approval determination, except as agreed with the client and authorities for out of hours work, will be restricted as follows:

- between 7:00 am and 6 pm, Mondays to Fridays inclusive;
- between 8:00 am and 1 pm, Saturdays;
- No work on Sundays and public holidays.

Out of hours work as agreed with the client and authorities will only be undertaken:

- Provided noise level do not exceed existing background noise level plus 5dB, works may also be undertaken between 6pm-7pm Monday - Friday, and between 1pm and 4pm Saturdays in line with condition C3, 4,5 & 6 of the consent.
- To facilitate deliveries that cannot be easily delivered within normal hours
- Road and other works that require street closures or out of hours services cutovers
- Provided 7 days notice to project and community stakeholders to be affected by the works.
- To facilitate deliveries that cannot be easily delivered within normal hours and or road and other works that require street closures or out of hours service cutovers are compliant with condition conditions C5 and C6

Rock breaking or rock hammering in accordance with C7 hours are listed below

9am – 12pm Monday to Friday

2pm - 5pm Monday to Friday: and

9am - 12pm Saturdays

3.3 24HR EMERGENCY CONTACT (HCA)

Senior Project Manager – James Last 0467 762 120

Senior Site Manager - Nick Valois 0421 286 395



4. Environmental and Sustainability Strategy, Policy, Objectives and Targets

4.1 STRATEGY

This EMP is implemented in support of the Hindmarsh <u>Environmental and Sustainability Strategic Framework</u>, this strategy is to be communicated and made available to all workers at all times.

4.2 POLICY

The Hindmarsh Environmental and Sustainability Policy and the PPE Policy are to be communicated and made available to all workers at all times. At time of site induction workers are briefed on the Policy and its intent. A PPE Requirements document is also available.

4.3 COMPANY OBJECTIVES AND TARGETS

Current company environmental and sustainability objectives and targets are detailed within the Environmental and Sustainability Strategic Framework.

Hindmarsh objectives and targets established at company and project level are managed and maintained in accordance with <u>Company & Project Objectives & Targets – Maintenance, Management & Monitor procedure.</u>

4.4 PROJECT OBJECTIVES AND TARGETS

The ESD initiatives of the proposed development will be verified through a Green Star Design & As-Built v1.3 formal certification, with the development targeting a 4 Star rating.

Below is a summary of the initiatives to meet this target:

- Good management adopted from design phase, construction and through to building operation.
- Healthy indoor environmental quality.
- Minimise energy consumption through good passive design and maximise energy efficiency of systems.
- · Sustainable transport systems.
- Effective water management.
- Construction materials selection.
- · Limiting impact of land use on ecology and biodiversity.
- Reductions in emissions.
- Incorporating innovative technologies.

5. Resource Management

General information detailing overall resource management is detailed within the current Project Management Plan (PMP) for this project, Section: Resource Management. The following sections provide details regarding environmental and sustainability specific considerations related to resource

5.1 RESPONSIBILITY AND AUTHORITY

It is the responsibility of Hindmarsh project staff to ensure that the Environmental Management Plan (EMP) is complied with, and objectives and targets are met. To facilitate effective environmental management, specific responsibilities for implementing and supporting this EMP have been assigned.

Please refer to the Appendix C (page 40) - Roles and Responsibility Matrix, for the project specific allocations.

5.2 ENVIRONMENTAL TRAINING REQUIREMENTS

Hindmarsh* ensures specific environmental and sustainability training requirements are identified in consultation with each project team member. This is completed as per the <u>Training and Development Procedure – Project</u>, any training needs identified are captured via the <u>Training ID \ Requirements Register</u>.

The following additional forms shall be used as appropriate:

- Training Approval Form
- Training Evaluation Form

Hindmarsh employees provide evidence of training completion to the Human Resource Department (only required for nominated courses \ competencies), such evidence may also be filed electronically or via hardcopy on site for reference purposes. Environmental training requirements are continually revisited throughout the life of the project, particularly where there has been a change in project resources, where a skill gap has been identified, or as required by the Project Manager (PM).

Refer to the <u>Learning and Development Overview</u> document for further information regarding the relationship between company and project training processes.

5.2.1 Unforeseen Training Requirements

Where unforeseen training requirements have been identified by either: Risk Assessment, Training Review or other means, arrangements will be made to ensure the employee involved is appropriately trained. Any such training need identified is captured via the <u>Training ID \ Requirements Register.</u>

6. Compliance

6.1 LEGISLATIVE \ REGULATORY

The Legal Register is a list of relevant legislative and regulatory requirements applicable to general Hindmarsh construction operations. The project team has reviewed this document and has identified relevant legislative and regulatory requirements applicable to project specific operations. The project specific Legal Register is available upon request and has been completed as per the <u>Legal Requirements</u> procedure.

Legislative and or regulatory information may also be included in relevant <u>Environmental Impact Guides (EIGs)</u> and in the site-specific induction training provided to all employees and site workers prior to their commencement of works on site.

6.2 MONITORING \ CHANGES TO: ACTS, REGULATIONS, CODE OF PRACTICE AND AUSTRALIAN STANDARDS (SUBSCRIPTION)

Hindmarsh is notified of SQE legislative and regulatory change via a subscription service called LAWLEX - http://www.lawlex.com.au Where relative legislative change is to occur the National SQE Manager informs State SQE Manager who are then required to review changes and forward recommendations (this may be Document Change Request, email, hardcopy or other) to the SQE Systems Manager for Hindmarsh Management System (Compass) coordination.

For more detailed information please refer to Legal Requirements procedure.

6.3 ACCESS TO AND COMMUNICATION OF LEGAL REQUIREMENTS / AUSTRALIAN STANDARDS

Hindmarsh employees, suppliers and subcontractors have access to legislation and regulatory documents via the internet. Where a project receives a request for an applicable legislative \ regulatory document which is not available via the internet, then the request is to be forwarded to one of the following who will arrange for a copy of the required document to be made available to the requestor.

- National SQE Manager
- State SQE Manager

6.3.1 Australian Standards

Hindmarsh subscribes to "Building and Construction" related Australian Standards. Refer to the <u>Australian Standards Online Select Access</u> document for further information regarding access instructions and credentials required for login. Refer to Appendix D – Project & Environmental Risk Assessment.

7. Risk Management

7.1 INTRODUCTION

Project risk management is completed as directed within the <u>Risk Assessment procedure in Compass</u>, and as detailed within PMP. The <u>Risk Assessment – Quick Reference Card</u> provides a summary of the risk assessment process, including consequence and likelihood tables.

7.2 ENVIRONMENTAL ASPECTS AND IMPACTS

The project specific Environmental Risk and Opportunity Profile takes into account identified hazards (aspects) and impacts which are relevant to the project. The Project team has reviewed all available information (i.e. risk assessments, consultant reports, advice, papers, scope of works etc) to ensure the Environmental Risk and Opportunity Profile accommodates all known issues.

Hindmarsh ensures environmental aspects and impacts are continually reviewed, risks assessed and that monitoring requirements remain relevant and current.

Key environmental aspects and risks are communicated to Hindmarsh employees and subcontractors based on level risk, controls implemented and or as deemed appropriate by project requirements.

Please refer to the project specific Environmental Risk and Opportunity Profile. Refer to Appendix D

7.3 ENVIRONMENTAL IMPACT GUIDES – EIG'S

Hindmarsh has developed a number of standard Environmental Impact Guides (EIGs), these are documented procedures targeting high risk and \ or common environmental aspects and impacts which arise from general construction activities. EIGs provide the project team with general guidance regarding the management of each respective environmental impact, describes the processes involved, the permits or licenses required, the control measures to be implemented, the monitoring and reporting requirements and any emergency response measures to be implemented.

These documents are available upon request and are communicated to workers as required. A number of these EIGs are available via Compass these include:

- EIG001-Soil Erosion, Sediment, Surface Run Off
- EIG002-Disturbance Flora Fauna
- EIG003-Disturbance Aqua Flora Fauna
- EIG004- Noise Emissions
- EIG005- Atmospheric Emissions
- EIG006- Vibration
- EIG007- Storage, Maintenance, Refuel
- EIG008- Storage, Handling or Hazardous \ Dangerous Substances \ Materials
- EIG009- Social Impact
- EIG010-Presence of Infectious Plant, Disease or Weeds
- EIG011- Solid and \ or Liquid Waste, Recycling
- EIG012- Heritage \ Culture Management \ Disturbance
- EIG013- Land Contamination
- EIG014- Visual Amenity
- EIG016-Acid Sulphate Soils
- EIG017-Ballast
- EIG018- PCB Management
- EIG019- Energy and or Water Consumption

Note: EIGs relevant to this project are detailed within the <u>Environmental Risk and Opportunity Profile</u>

7.3.1 Monitoring and Review of Environmental Impact Guides

EIG effectiveness and currency is monitored throughout the life of the project. The project team accomplishes this by identifying an active EIG (or several) and attaching it to the Weekly \ Daily Environmental and Sustainability Check Sheet. During completion of the check sheet the EIG content is also checked for efficiency and currency. The EIG is marked accordingly and amendments made and or controls altered as required. The EIG sheet under review accompanies the completed check sheet and filed (electronic or hardcopy) as evidence of review.

7.4 DESIGN AND REVIEW CHANGES

The <u>Design Involvement Management Risk</u> procedure ensures that where Hindmarsh is involved in the design, or has input into design, a process exists for ensuring effective participation and management. In support of this procedure a <u>Design Change Authority Form</u> is completed, upon which any environmental aspects or impacts will be considered. This system ensures all related documents, forms and or risk and opportunity profiles are also updated accordingly.

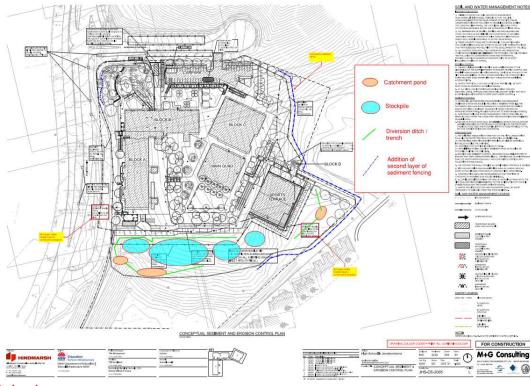
Design changes may be tracked via the <u>Design Change Register</u>, Aconex or similar system.

Safety in design documentation may also be reviewed to ensure environmental considerations are addressed appropriately. Please refer to the <u>Safety in Design</u> procedure and <u>Safety in Design Risk</u> <u>and Opportunity Profile</u> where available.

7.5 CONSTRUCTION SOIL AND WATER MANAGEMENT PLAN

The Applicant must prepare a Construction Soil and Water Management Sub-Plan (CSWMSP) and the plan must address, but not be limited to the following. For The full SubPlan refer to APPENDIX B

- Soil erosion and water management set out provided by M+G Consulting shown below JHS-CE-2005
- HCA has incorporated cattle grids and all 3 gates to shake debris from the wheels of leaving vehicles. Additionally, The traffic controller at the gates will inspect vehicles leaving the site to ensure no transfer of materials outside of the site confides.
- Update 14/4/2023
 - Due to level changes through the course of civil excavation updates to the sediment and
 erosion control plan have been made to accommodate newly created low point. HCA has
 removed sediment ponds on the site as they were no longer catching water run off in their
 designed location.



- The following controls will be utilised on the JHS site per the above drawing. Additional
 protection may be required to strengthen the design should heavier than predicted weather events
 require it. All external kerb inlets located on Environa dr will be protected with sandbags and
 geotextiles fabric per JHS-CE-2005 and 2006. Sediment fencing and drainage ditches to direct
 overland flow to settlement ponds to be treated.
- The agreed quantity of soil will be stockpiled on the stage 2 site for future use by SINSW. The
 stockpiles will be seeded for stability and have sediment fencing as detailed in JHS-CE-2006
 installed to the low side of each stockpile to protect against unfiltered run off entering the close
 by Jerrabomberra Creek.
- During heavy rain events and immediately after the site will be assessed by the project team to determine if the site will close of if works can continue and manage site, and;
- Prior to major rain fall events high risk for soil erosion, such stockpiles and at-risk elevation on
 the construction site will be covered with geotechnical fabric above the line of the sediment
 control fence. Thorough inspection and record keeping will be maintained by HCA both before
 and after weather events. Pre and post rainfall procedures

8. Hazard Reporting

Hindmarsh employees, subcontractors, those working on site, as well as those visiting have a duty to report any hazard observed on site. If a hazard is suspected or identified, report the matter with urgency to a Hindmarsh Management representative who shall be responsible for recording this in the OnSite CAR Module.

Hazard information may be communicated via site induction, safe work method statement review, and \ or safety meetings (e.g. Pre Start and Toolbox) held on site.

Where a Corrective Action has been submitted reporting a hazard, Hindmarsh shall investigate and take necessary corrective action to address the issue raised to remove the hazard and \ or prevent a reoccurrence.

9. Emergency \ Incident Management

Please refer to the Projects <u>Emergency Management Plan (EMMP)</u> for information regarding emergency preparedness and response. The project-specific Emergency Management Plan (EMMP) ensures Hindmarsh controls, and assesses Emergency preparedness elements as required for the project.

9.1 INCIDENT MANAGEMENT

Refer to the <u>Injury</u>, <u>Illness and Incident Management and Reporting</u> flow chart for detailed guidance regarding the management and reporting of injuries, illness and incidents.

Procedures and processes referenced within the above mentioned document address the following:

• Detailed definitions (SQE Definitions)

- Actions to be taken in the event of an injury, illness or incident (<u>Injury, Illness and Incident</u> Response)
- Additional reporting responsibilities and obligations associated with higher level injuries \
 incidents (Incident Actions \ External Notifications)
- Incident Reporting responsibilities and expectations (Incident Reporting Flowchart)
- Site and or National investigation requirements
- Corrective and Preventive Action
- Analysis of data \ findings (including Objectives \ Targets status) ☐ Refer to SSDA incident notification process.

A <u>Crisis Management and Recovery Plan</u> supports the injury, illness and incident management process.

9.1.1 Significant SQE Incident Alerts

Hindmarsh communicates lessons learnt information, from both internal and external events, via Significant SQE Incident Alerts. Refer to the <u>Safety Management and Sustainability Process Map</u> for a list of those available.

10. Communication \ Consultation

10.1 INTRODUCTION

With many interested parties involved in the project it is critical that communication and consultation occurs efficiently and effectively between all.

With regards to environmental issues consultation and communication generally occurs when the following matters arise:

- An employer or employees identifies a hazards
- assessing any aspect \ impact (risk)
- · deciding on measures to control risks
- implementing controls
- reviewing the effectiveness of controls
- reviewing and developing policies
- investigating incidents \ complaints
- changing work practices and procedures
- introducing new substances to the workplace
- changes to current health and safety Acts, Regulations, Australian Standards, Codes of Practice and other relevant environmental requirements

10.2 MEETINGS \ REPRESENTATIVE \ OTHER AGREED ARRANGEMENTS

In discussion with site workers (Hindmarsh employees and Subcontractors), the following arrangements have been made with regards to communication and consultation regarding environmental matters:

Determine (preferably by obtaining agreement from workers onsite to which of the above mentioned forums is most acceptable) communication and consultation arrangements. Arrangements may include one or more of the following:

- The formulation of an Environmental Meeting (Hindmarsh Internal \ Contractor)
- Inclusion of environmental issues in other meetings \ forums
- Other agreed arrangements, eg (detail what the specifics are)

Environmental Meeting
Daily Prestart Meetings
Toolbox Meetings
Site Induction
Weekly Subcontractor \ Supervisor meeting

☐ Hazard Identification \ Reporting and Communication

☐ SWMS Submission and Review

Once determined or agreed arrangements are to be summarized here and communicated to all workers on site. Supporting posters \ flow charts may be posted to assist with communication.

10.3 KEY STAKEHOLDER, COMMUNITY AND AUTHORITIES COMMUNICATIONS \ CONSULTATION

Hindmarsh seeks to ensure stakeholders, the local Community and authorities are satisfied by the manner in which construction activities and tasks are managed.

10.3.1 AUTHORITIES

Hindmarsh acknowledges at times it will be necessary to communicate, and or consult, with public authorities regarding emergency planning and other relevant environmental issues.

10.4 COMMUNICATION SUMMARY

Communication with internal and external stakeholders regarding environmental issues will be in accordance with the following table:

Notifications

Subject	Action	Recipient	Frequency
Environmental incident	Project Manager	TSA / SINSW Superintendent / SINSW	As per client requirements
Pollution \ Environmental non compliance	Project Manager	TSA / SINSW Superintendent / SINSW	As per client requirements
Public complaints	Project Manager	HCA Construction Manager \ TSA	48 hours and as per client requirements
Complaint response	Project Manager	HCA Construction Manager \ TSA	48 hours and as per client requirements
Extended working hours	Project Manager	TSA / SINSW Superintendent / SINSW	and as per client requirements

Discovery of threatened fauna	Project Manager	State Manager Construction	48 hours
Discovery of archaeological material incl heritage items	Project Manager	State Manager Construction \ TSA	48 hours and as per client requirements
Discovery of skeletal material	Project Manager	State Manager Construction \ TSA	24 hours and as per client requirements
Consultation Package 1	Project Manager	Via SINSW Communications Department	As Required \ as per programme
Consultation Package 2	Project Manager	Via SINSW Communications Department	As Required \ as per programme
High Noise \ Night Works (note these events are not planned to occur)	Project Manager	Via SINSW Communications Department	2 Days prior to works commencing
General			
Subject	Action	Recipient	Frequency
EMP	Project Manager	Internal	Quarterly
Environmental CAR	Team	Project Manager	As stipulated within ARN
Audit	National SQE Manager	Project Manager	Notify 5 days prior
Environmental performance	National SQE Manager	State Manager Construction	As scheduled via Internal Audit
Meetings		1	
Туре	Chair	Attendees	Frequency
Key Stakeholder Meeting	Project Manager	TBA	Weekly to Fortnightly
Toolbox Meetings	Site Manager	As Required	Weekly

10.5 COMMUNITY CONSULTATION AND COMPLAINTS **HANDLING**

Subcontractor Reps

Contact details for HCA can be found by the public on the "notice of building work" signage at the entry to the site, there will also be additional signage at regular intervals on the perimeter fencing providing contact details for HCA.

As Required

In the event of receiving a complaint HCA will review and issue to TSA and SINSW Communications Department. The SINSW Communications Department will then deal with the complaint with assistance from HCA.

Daily Prestart Meetings

Daily

SINSW Community Consultation Plan includes processes and notification periods for communication The below exert from the CCS details the process of investigation and handling of complaints and enqueries directed to the project team;

SINSW manages enquiries (called interactions in our Customer Relationship Management (CRM) software, Darzin), and complaints in a timely and responsive manner.

Prior to project delivery, a complaint could be related to lack of community consultation, design of the project, lack of project progress, etc.

During project delivery, a complaint is defined as in regards to construction impacts – such as – safety, dust, noise, traffic, congestion, loss of parking, contamination, loss of amenity, hours of work, property damage, property access, service disruption, conduct or behaviour of construction workers, other environmental impacts, unplanned or uncommunicated disruption to the school.

If a phone call, email or face-to-face complaint is received during construction, it will be acknowledged within 2 working days and logged in our CRM, actively managed, closed out and resolved by SINSW within 2 to 5 business days, where practicable. Where complaints are unable to be resolved within this timeframe the complainant will be provided with regular updates regarding the complaint resolution process.

A 24-hour contact number for the project site manager will be displayed at the site and can be shared with the community as necessary for any urgent issues that need to be addressed on site, outside of business hours.

As per our planning approval conditions, a complaints register is updated monthly, or as required by the planning authority, and is publicly available on the project's website page on the SINSW website.

If the complainant is not satisfied with SINSW response, and they approach SINSW for rectification, the process will involve a secondary review of their complaint as per the outlined process.

Complaints will be escalated when:

- An activity generates three complaints within a 24-hour period (separate complainants).
- Any construction site receives three different complaints within a 24-hour period. ☐ A single complainant reports three or more complaints within a three-day period.
- A complainant threatens to escalate their issue to the media or government representative.
- The complaint was avoidable.
- The complaint relates to a compliance matter.
- The complaint relates to a community safety matter.
- The complaint relates to a property damage claim.

Complaints will be first escalated to the Senior Manager, Community and Engagement or Director of Communications for SINSW as the designated complaints handling management representatives for our projects. Further escalation will be made to the Executive Director, Office of the Chief Executive to mediate if required.

If a complaint still cannot be resolved by SINSW to the satisfaction of the complainant, we will advise them to contact the NSW Ombudsman - https://www.ombo.nsw.gov.au/complaints.

11. Induction and Visitor Management

Site Induction is undertaken by all workers (this includes Hindmarsh employees, all subcontractors and any employees working for subcontractors), prior to work commencing on site. Induction consists of the worker completing a Site-Specific Induction and by being made aware of the Site-Specific Induction form. During induction copies of all appropriate licensing, certification and qualification will be collected by Hindmarsh and retained with the worker's induction record. A nominated Hindmarsh employee* will be responsible for maintaining these records.

It will be a condition of entry, of the project, that each individual worker has a valid White Card/Blue card as issued by a recognised safety training authority.

11.1 VISITOR INDUCTION

A visitor's induction is undertaken by all visitors, prior to site access. Visitor induction consists of the visitor reading and understanding the project's <u>Safety Guidelines for Visitors Pamphlet</u>, <u>Site Safety Rules</u>, and <u>Emergency Management Plan (EMP) - Visitor</u>

<u>Information</u>. Visitors to site are to acknowledge understanding of the Visitor Induction by the signing of the <u>Acknowledgement Register</u>.

Those who visit site for a one off short duration visit to carryout non-intrusive work such as – external auditors, delivery drivers may visit site without undertaking the Visitor Induction however these visitors must be accompanied at all times (if on site) and or must follow Hindmarsh representative's instructions.

11.2 DRIVER CODE OF CONDUCT

All contractors and delivery drivers accessing the JHS site are expected to adhere to the site-specific rules which include strict conformance to the temporary traffic management plan and speed limits on site. Driving outside of the confines of the JHS site it is expected that all HCA contractors conduct themselves in a professional manner that ensures adherence to road rules.

(a) minimise the impacts of earthworks and construction on the local and regional road network;

The location of JHS project lends its self to little disruption to local traffic. Set in a newly released land with no construction either side. At the bottom of the block over the Jerrabomberra creek there is the local primary school. There is no access to the site by vehicle from another road than Environa dr and thus HCA does not expect any cueing of trucks on Environa Dr. The site contains sufficient haulage and parking for construction vehicles to park off Environa drive.

Haulage routes are further detailed in Appendix E CTPMSP.

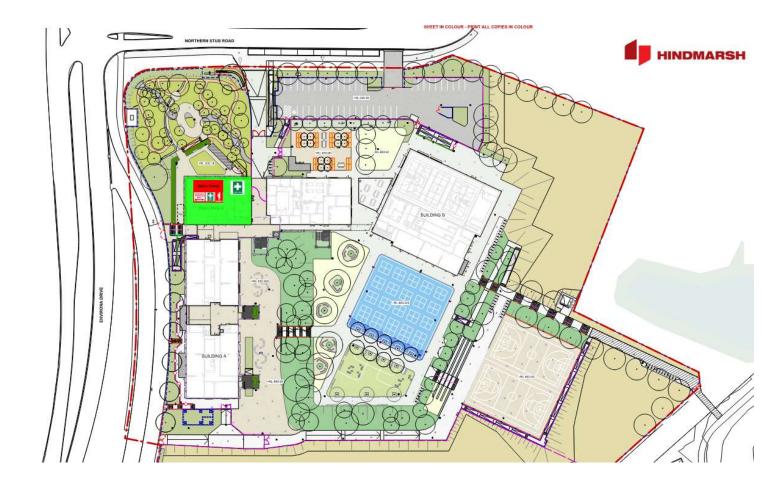
- (b) minimise conflicts with other road users;
 - The highest level of professionalism is expected from all contractors engaged by HCA.
- (c) minimise road traffic noise; and
 - Covered during induction are driver mitigation strategies surrounding noise on public roads surrounding the project that may impact residents nearby. Air breaks, horns, unattended idling vehicles will be kept to a minimum.
- (d) ensure truck drivers use specified routes.

HCA does not anticipate that materials or contractor travel to the JHS site would cause any excess noise during transport that would be considered outside of normal levels. Contact details of the Site manager are posted on the Notice of Building Work sign on the perimeter fencing should a member of the public wish to contact someone to discuss a complaint.

11.3 CONTRACTOR PARKING

Contractor parking will be provided on a flattened area in the top NW corner of the site as shown below in the internal traffic management plan.

No on street parking will be permitted on Environa Dr by contractors



12. Checking

12.1 MONITORING AND MEASUREMENT

Monitoring requirements for the project will be identified within the project specific Environment Risk and Opportunity Profile). Where monitoring has been identified data collected may be analysed and may result in corrective and or preventive action. All Hindmarsh owned measuring equipment must be registered on the Equipment Calibration Register and all associated calibration records maintained. Hindmarsh may outsource environmental monitoring to external consultants as required. Calibration records for nonHindmarsh owned equipment will be requested.

The following should be noted regarding possible noise \vibration \dust monitoring regimes:

- Monitoring may be undertaken in response to complaints where this is considered an appropriate response
- Monitoring that is to occur will be undertaken by personnel suitable qualified and experienced in undertaking acoustic measurements
- Monitoring may occur for plant and equipment which is perceived as 'excessively noisy' to determine the need for rectification or replacement
- If night works are required: Night works construction noise levels, if approved by EPA, may be monitored at the start of the activity, and at a location equivalent to the most affected noise sensitive land user to confirm operation in accordance with EPA requirements.

12.2 NON-CONFORMITY, CORRECTIVE AND PREVENTIVE ACTION

Any environmental nonconformity observed will be rectified via the Corrective Action process
Where nonconformity creates a hazard this will result in either:
□ a record being made within an "Uncontrolled Hazard Booklet", □ a
<u>Corrective Action Required</u> form being raised and issued, or □ the
completion of an <u>Incident Report</u> .

Where a hazard has not been created by the nonconformity a Corrective Action Required form will be issued if immediate action is not taken to rectify.

Where a Corrective Action Required form is issued and it is not addressed in a timely manner or there is a subsequent re-occurrence of the non-conformance the <u>Corrective Action and Escalation Process</u> will commence.

Please refer to the <u>Corrective Action</u> procedure and <u>Uncontrolled Hazard \ Hazard \ Reporting - Management flowchart for further information.</u>

During project delivery Hindmarsh anticipates and encourages continual improvement in all areas of business. Continual improvement opportunities may arise from inspections, testing, auditing, incidents and or observations. Hindmarsh promotes and support the issue of corrective actions, as required, to support continual improvement requirements. Please refer to the <u>Preventive Action</u> procedures for further information.

12.3 AUDITING

Hindmarsh actively monitors performance and seeks potential improvement opportunities by completing internal audits. Please refer to <u>Audits Management</u> procedure for detailed information regarding the internal audit function and requirements, including:

- Audit Notification
- Internal Auditor Notes (audit opening \ closing meeting)
- Internal Auditor Notes (audit)
- Internal Audit Report

12.4 INSPECTION (EVALUATION OF COMPLIANCE)

The Weekly Environmental and Sustainability Check Sheet, is completed by the project team to evaluate compliance. The weekly or daily check sheet is customised to reflect specific project requirements. Where applicable, the environmental controls listed within Environmental Risk and Opportunity Profile may also be included within the check sheet.

It is preferred that only persons who have completed environmental awareness training or environmental management training complete the check sheet, however at times it is accepted it may be completed by a resource who has not completed such training but whom has environmental experience.

Hindmarsh management also inspect the site to ensure that the environmental impacts resulting from construction work are being adequately mitigated and environment controls have been implemented, are being met and maintained. Refer Senior Manager's Visit (SMV) and Management, Project Inspections documents.

12.5 MONITORING REQUIREMENTS

Below items are monitoring requirements as stated in the EIS/ESD reports:

- Evaluate the School Transport Plan process to revise and improve the process to achieve outcomes.
- Pre-commissioning, commissioning, and tuning of building systems to ensure systems are operating as intended. This will be monitored through the building asset management systems.
- A project-specific Aboriginal Participation Plan has been developed to monitor and report on the minimum Aboriginal participation requirements.
- Energy efficiency programs to be developed as targets to aim for, reviewed annually.

13. Reporting

13.1 WEEKLY REPORTING REQUIREMENTS

- Weekly SQE Report
- Weekly Environment & Sustainability Check Sheet or Daily Environmental & Sustainability Check Sheet
 - ☐ Results of the Environmental & Sustainability Weekly or Daily Check Sheet are to be reported to the Project Manager

13.2 MONTHLY REPORTING REQUIREMENTS

13.2 MONTHET REFORTING REQUIREM
☐ Monthly Internal Project Report ☐
OnSite Database (Intranet)
☐ Earthworks
□ Structure
☐ Facade
☐ Mechanical
☐ Concrete (insitu and or precast)

13.3 CLIENT & EXTERNAL REPORTING REQUIREMENTS

☐ Monthly Client Report

13.4 REGULATORY REPORTING REQUIREMENTS – EPA

There is a duty to report pollution incidents under section 148 of the Protection of the Environment Operations Act 1997 (POEO Act).

Pollution incidents causing or threatening material harm to the environment must be notified. A 'pollution incident' includes a leak, spill or escape of a substance, or circumstances in which this is likely to occur. 'Pollution incident' is defined in the Dictionary to the Act as an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise.

If you observe a major pollution incident that presents an immediate threat to human health or property, such as toxic fumes or a large chemical spill, call 000 to report it to emergency services. As first responders, Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are responsible for controlling and containing incidents.

Construction Environmental Management & Sustainability Plan

In the event of a reportable environmental incident the Project Manager (PM) must refer to the <u>Injury, Illness and Incident Management and Reporting</u> flow chart for detailed guidance regarding the management and reporting of environmental incidents.

14. Document and RecordManagement

 $Environmental\ project\ records\ are\ controlled\ in\ accordance\ with\ the\ Project\ Management\ Plan\ Section:$

Document and Record Management. The minimum records maintained include the following:

Category	Record	Responsible	Retention Timeframe
General Requirement	Environmental Management Plan (all versions), Including: • Performance Targets and Measurements	Project Manager	Permanent
	Contact and Service Provider Information Site Diary – Site Manager \ Foreman	Site Manager Project Manager	Permanent Permanent
	Site Diary – SQE (where required)	Site Manager	Permanent
	 Inspection Records Training Records – Including Qualifications held by individuals All formal correspondence with stakeholders Meeting Minutes Complaint records Audit reports (including internal review reports) Weekly Environmental & Sustainability Checksheets Induction Records 	Site Manager Project Manager Project Manager Site Manager Site Manager SQE Supervisor Site Manager Site Manager	Permanent Permanent Permanent Permanent Permanent
Legislative \ Regulatory	Identified Legislative Regulatory Register	Project Manager	Permanent
Approvals, Permits and Licenses	Any Approvals, Permits and Licenses	Project Manager	Permanent
External Review Reports	Not Applicable		
Construction Waste management	Waste tracking dockets Waste disposal receipts	Site Manager Site Manager	Permanent Permanent
Land Contamination	Not Applicable		
Hazardous Substance	Copies of MSDS's	Site Manager	Permanent
Corrective Action Request	Copies of issued corrective action \ Action Required Notifications Log of corrective actions	Project Manager Project Manager Project Manager	Permanent Permanent Permanent
Incident reporting Doc. No: C-PRE-M005 Re	Environmental incident reports Incident Investigation Reports v. No: 17 Construction Environmental Man	Project Manager Project Manager agement & Sustainability	Permanent Permanent Plan 26

Performance Analysis \ Evaluation Reports	Where available	Project Manager	Permanent
Evaluation Reports			

Additional information regarding document and record control is available, refer: <u>Control of Documents</u> and <u>Control of Records</u>.

Each subcontractor is selected on the basis of their ability to meet all specified requirements including Quality, Environment and Health and Safety. The following are examples of environmental documents which may be required from subcontractors:

- Tool box talks and attendance registers
- Environmental Risk Assessment
- Project Risk Assessments
- Safe Work Method Statement (SWMS)
- Material Safety Data Sheets (MSDS)
- SQE information such as logbook, tests records etc of all plant and equipment on site

 Competency Certificates and training records

Applicable subcontractors may also be required to submit a site specific Quality,
Environmental and \ or Health and Safety Plan as determined by the contract requirements and / or risks

14.1 CUSTOMISED COMPASS TEMPLATES

During the life of the project a number of Compass templates will be customised, and in some cases continually revised to address project specific requirements: for example Risk Profile templates. In order to ensure these documents \records are appropriately controlled this project will utilise, either or both, Aconex and or the Site Server Electronic Filing System. Where such documents are controlled via the Site Server Electronic Filing System, the Compass to Project Controlled Document Register shall be completed and maintained accordingly.

15. Subcontractor Management

All subcontractors are to ensure they make appropriate environmental inclusions in their SWMS \ JSEAs and abide by all statutory requirement mentioned in this EMP.

Hindmarsh* is to ensure SWMS are reviewed as per <u>SWMS Review</u>, and to ensure legislative \ regulatory requirements are meet as per Legal Register. Risk Profiles completed are also to be used during the review of SWMS to ensure all known risks have been addressed and adequately controlled.

Monthly subcontractor spot audit may be undertaken to ensure each Subcontractor complies with all requirements (Contract, Statutory etc)

16. Project Environmental \ Sustainability Information & Particulars

16.1 EXISTING ENVIRONMENTAL CONDITIONS OF SITE

Existing surrounding development generally includes low density residential developments and local sports facilities to the east, Jerrabomberra Public School to the northeast, and grazing land and natural grasslands to the north, south and west.

The site currently had no road frontage. The future Environa Drive (currently under construction) will border the site to the west. Additionally, there is an unnamed road currently under construction that borders the site to the north and will provide direct access into the school site.

The site is sloped from north to south, with approximately 14m level difference between highest and lowest points. At approximately +606 Australian Height Datum (AHD), the land at the northern site boundary is the highest point of the site, and the land across the north road continues to rise up, away from the site. The land falls away to the south, east and west. The site's lowest point is approximately +592m AHD and occurs at the southern boundary.

Jerrabomberra Creek is located approximately 150m to the southwest of the site, and adjoining land to the southeast is a small dam that forms part of a watercourse and broader wetland.

The site is identified bushfire prone land. The site contains primarily grassland with no remnant trees.

There were no existing services and easements on the site. Once construction is complete on Environa Drive and the north road, services tie-ins will be available for gas, electricity, communications, water supply, drainage and stormwater.

Mitigation measures to be implemented during construction per the Aviation Wildlife assessment are as follows:

- Minimise ponding from interruptions to ponding
- Ensure foodwaste are not accessible to birds on the construction site with the use of secure bins
- · Use of direct seeding in replace of spray seeding on verges, bus zone, drop off and paths

16.2 DILAPIDATION REPORT

Dilapidation report will be undertaken prior to site works commencement. This report will include roads and entryways of adjacent properties.

16.3 HERITAGE \ CULTURAL CONSIDERATIONS

The site has no known (non-Aboriginal) heritage or archaeological significance. The site is not a listed heritage item, is not located in a heritage conservation area and is not located near a heritage item or conservation area.

As for cultural, overall, it has been found that the proposal will result in minor and acceptable impacts on Aboriginal cultural heritage, with no further investigation required, subject to ongoing consultation with Aboriginal stakeholders.

16.4 GEOTECHNICAL REPORT

Please refer to Aconex Mail number Hindmars-TRANSMIT-000110 for the Geotechnical Investigation Report for the Jerrabomberra High School site.

16.5 CONTAMINATION \ REMEDIATION REPORT

Please refer to Aconex Mail number Hindmars-TRANSMIT-000848 for the Interim Soil Contamination Report. "Based on the findings of the assessment, potential for gross chemical contamination to be present within the site is considered to be low." (Page 22 - findings / conclusion of Douglas Partners 'DETAILED SITE INVESTIGATION (CONTAMINATION)' report March 2022.

Any suspected contamination discovered during civil works on the site will be dealt with as highlighted below in 16.6 and 16.7

16.6 UNEXPECTED FINDS PROTOCOL (KNOWN HEALTH HAZARD)

Refer to section 17 in the Emergency Management Plan for Jerrabomberra High School;

ALL WORKERS				
	Must notify HCA representative immediately. Contact CEW: Nick Valois on 0421286395 or any other HCA Representative			
	May immediately call 000 if you believe it necessary			
	May activate audible alarm device / system if you believe it necessary			
ACTION				
НСА				
	CEW / EW to assess the emergency			
	Cease work in the area, and adjacent work areas and establish a 10m exclusion and containment zone;			
	Fence the zone off for additional protection for workers and general public			
	Immediately engage the services of an licenced asbestos assessor in NSW or Suitably qualified environmental scientist or sample contamination and provide expert advise.			
	Communicate the unexpected find as soon as practical including control measures to potentially affected workers and the regulator (for Asbestos Only) and engage Occupational Hygienist.			
	If required commence evacuation of site by activating the site siren through nurse call system of air horn			
	The same day Both TSA and SINSW will be notified of a find, potential contamination of person and environment.			

ALL WORKERS

EVACUATE / COMMUNICATE

- Evacuation will be in the form of an air horn '3 blasts' or emergency siren through the nurse call system
- · In the event of an evacuation HCA management will direct all workers on site to the muster point

16.7 UNEXPECTED FINDS PROTOCOL (ASBESTOS, CONTAMINATION OR ARCHAEOLOGICAL FINDS, ABORIGINAL HERITAGE OR NONABORIGINAL HERITAGE FINDS)

ALL WORKERS

- <u>Must</u> notify HCA representative immediately. Contact <u>CEW</u>: Nick Valois on 0421286395 or any other HCA Representative
- · DMayActivateaudible alarm devige/ system if you believe its necessare nvironmental Management & Sustainability Plan

ACTION

HCA

- In the event of that surface disturbance identifies a new Aboriginal / historical object, section C25 and C26 of the consent
 conditions is followed in addition to the below area protection protocol.
- CEW / EW to assess if there is any risk to workers or the environment
- Cease work in the area, and adjacent work areas and establish a 10m exclusion and containment zone;
- · Fence the zone off for additional protection for workers and general public
- HCA to notify TSA and SINSW as soon as practical
- Communicate the unexpected find as soon as practical including control measures to potentially affected workers and the regulator (for Asbestos Only) and engage Occupational Hygienist.
- The same day both TSA and SINSW will be notified of a find, potential contamination of person and environment.
- Section 16.7 has considered recommendation of the Limited Contamination Assessment (Document No. R.002.Rev3), prepared by Douglas Partners and dated 16 September 2021 added to section 16.7.

ALL WORKERS

EVACUATE / COMMUNICATION

- Evacuation will be in the form of an air horn '3 blasts' or emergency siren through the nurse call system
- In the event of an evacuation HCA management will direct all workers on site to the muster point

16.8 NOISE, DUST & VIBRATION MANAGEMENT

HCA's Construction Noise and Vibration Management Plan will have a simple yet effective structure.

- Gather information
- Formulate actions
- Agree and communicate recommendations

 Implement everything.
- Review and communicate.

As the Jerrabomberra High school site is green field, the HCA believes the noise and vibration elements to be of a low risk and thus will monitor with no specific actions. Dust management / suppression will be managed with the use of water trucks on a regular schedule.

If required Data loggers / noise and vibration will record in strategic locations around the site, firstly to establish benchmark data for the site prior to the commencement of construction activity and secondly to monitor noise and vibration periodically during construction. Excessive noise and vibration will be easily identified by the monitors allowing HCA to assess the cause and implement management strategies to remove the risk.

HCA believe the most effective means of dust control is through water suppression. HCA temporary hydraulic scope of services includes provision for hose taps at the primary and secondary entrances. In addition, HCA will utilise water carts in difficult to access areas.

HCA will use cattle grids at the entry of the site & regular street sweepers to ensure that the surrounding roadways are kept clean and free from foreign material.

HCA does not envisage any impact for noise, vibration, dust or odour to the adjoining properties located on Palm Court in Jerrabomberra.

This section mirrors the recommendations outlined in section 4.6 of the Dust Management of the Poplars EPBC Act Construction Environmental Management Plan (EPBC No. 2020/8801), prepared by Indesco and dated 17 October 2021

16.10 LIGHT POLUTION

External lighting used for safe access and egress as well as security will conform with AS4282-2019.

16.11 WASTE MANAGEMENT

In recent years the waste management industry has responded positively to industry pressure and government legislation. As a result, HCA is able to ensure accurate reporting is available and efficient management of waste separation for recycling is assured. HCA through its waste subcontractor tracks the waste removal from site and provided with statistics at the end of each month with recycling vs landfill.

Through separating onsite waste into different categories HCA further assist with the view to achieve the highest level of recyclability of construction waste. See appendix I

- (a) the recording of quantities, classification (for materials to be removed) and validation (for materials to remain) of each type of waste generated during construction and proposed use for materials to remain;
- (b) information regarding the recycling and disposal locations; and
- (c) confirmation of the contamination status of the development areas of the site based on the validation results.

The above items are all documented and reported on monthly as a part of HCA monthly reporting. The location of of the waste disposal will be determined by which waste contractor HCA engages during the procurement process.

Below is an example of the waste reporting HCA receive from a waste contractor.

September-October 2021 % of Waste Bin Number Bin Size Total Weight Waste Type Method Recycled Disposal Tiger Waste 101182 15 2.03 Tonnes Mixed Demo Screen & Grappled Transfer Station Tiger Waste 101383 15 4.19 Tonnes Mixed Demo Screen & Grappled 90 Transfer Station Tiger Waste 101740 15 1.69 Tonnes Mixed Demo Screen & Grappled 80 Transfer Station Tiger Waste 102154 15 1.49 Mixed Demo Screen & Grappled Tonnes 80 Transfer Station Tiger Waste 102241 15 3.46 Tonnes Mixed Demo Screen & Grappled Transfer Station Tiger Waste 102504 15 4.10 Mixed Demo Screen & Grappled 90 Tonnes Transfer Station Tiger Waste 102761 15 1.40 Tonnes Mixed Demo Screen & Grappled Transfer Station Totals 105 18.36 % Reycled Items 952.16 Percentage Waste Recycled to date = 85% 1115.6

All waste collected by Tiger Waste (HCA's preferred waste contractor) is delivered to our ACT Government licenced waste sorting facility in Fyshwick. The waste is sorted by mechanical grabs before it is screened and processed through our hand picking station. The recyclable materials are delivered to local and regional licenced recyclers, whilst the landfill waste is transported daily to the Veolia operated Woodlawn Bioreactor

16.12 ADDITIONAL REPORTS

Refer to section 2.3.1 for list of documents and reports referenced.

16.13 PROJECT SPECIFIC SUSTAINABILITY INITIATIVES

Refer to section 4.4 for full list of project specific sustainability initiatives.

16.14 ENVIRONMENTAL MANAGEMENT SUB-PLANS

This section of the plan is to identify whether there are any sub-plans applicable to this document. This will include (the emergency management plan must be referenced here):

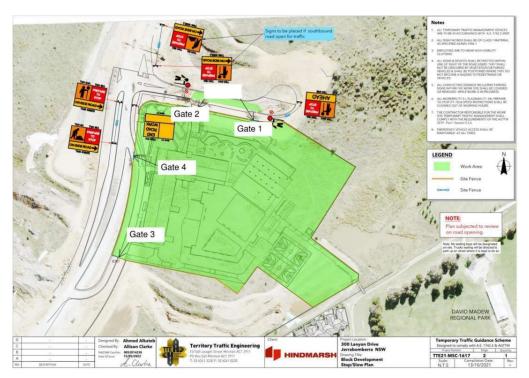
- Archaeological Assessment
- Ecological Assessment
- Contamination assessment
- Heritage assessment
- Bushfire Analysis
- · Flood Management

16.15 CONSTRUCTION TRAFFIC AND PEDESTRIAN MANAGEMENT SUBPAN

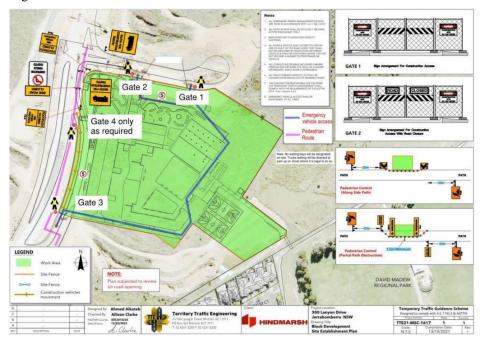
See appendix E for detail access plans. Main entry into the site will be via Gate 1 and Gate 3 for deliveries. Gate 2 will be used to access the contractors internal parking as shown below, from this location vehicles are met with steel sliding gates that will be closed at all times and manned by a CW as documented in the TTMP. There is temporary gravel roads from Enivona dr into the contractor parking and on the haul road around the site for truck and crane access.

Full traffic and pedestrian management plan can be found in the Temporary traffic management plan for Jerrabomberra

Stage 1 (site establishment staging described in 16.16)

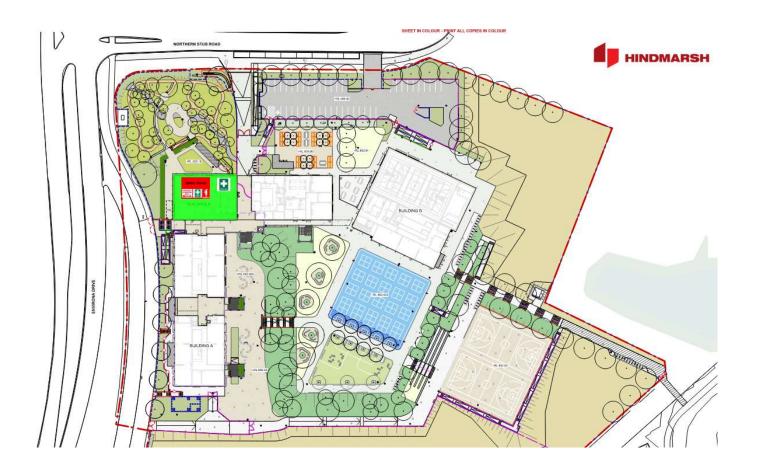


Stage 2



16.16 SITE SETUP – ACCOMMODATION AND AMENITIES **MANAGEMENT**

Site office and first aid facilities relocated into the Building LGF building B.



APPENDIX A – ENVIRONMENTAL AND SUSTAINABLITY POLICY

Environment & Sustainability Policy

HINDMARSH

This policy applies to all Hindmarsh employees and contractors, including (without limitation) employees and contractors Hindmarsh Construction Australia Pty Ltd, HCA Queensland Pty Ltd, Hindmarsh Living Pty Ltd, Hindmarsh Corporate Pty Ltd and any other related entities at the date of this policy or at any other time.

Hindmarsh operates with full appreciation and awareness that environmental protection and sustainability are principle to our ongoing success. Operations are compassionate to the environment, the local community and aim to support the ongoing sustainability of the environment.

Compliance with this policy will be monitored, audited and continually reviewed so as to remain effective and aligned with all of our operations.









Hindmarsh Environmental & Sustainability Pledge

We seek to meet its own environmental needs and the needs and expectations of clients, stakeholders, employees and the community by:

- Setting and continually reviewing measurable environmental objectives and targets. Backed by ongoing monitoring, reporting and analysis supporting continual improvement. Complimented by ongoing feedback at all levels.
- Prevent pollution and unnecessary resource consumption by setting targets and maintaining systems and processes which facilitate Seek to minimise construction related impacts including noise, vibration, groundwater, air quality, land contamination, amenity and heritage
- Promote a shared sense of ownership and responsibility for optimal environmental performance from board through to employees and contractors whilst developing a culture of environmental respect and appreciation
- Encourage and support environmental awareness through ongoing training and development of competencies particular to specific environmental impacts related to individual activities.
- Comply with all legal requirements including environmental Legislation, Regulations, Codes of Practice, Applicable Australian and other standards specific to Hindmarsh.
- Implement and maintain the Hindmarsh Management System and its Environmental elements to ensure all potential aspects and impacts are identified, evaluated and suitably eliminated or controlled.
- Foster and support continuous improvement at all levels including the identification of key environmental initiatives.

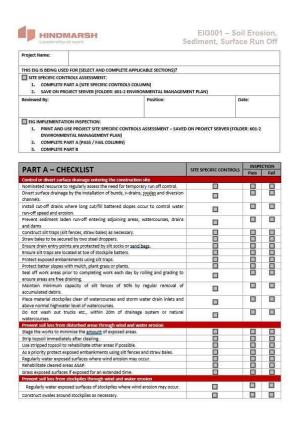
WARNING - Uncontrolled when printed! Refer to COMPASS for the latest version

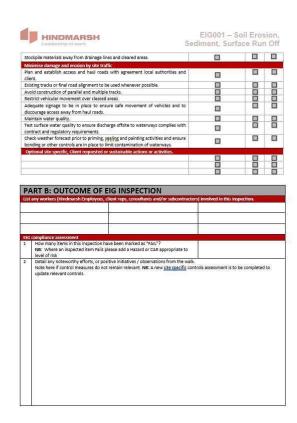
Authorised by: Maintained by: Last Revision Da SQE 22 March 202 Next Review Date: March 202 Current Version: 4. Page 1 of

APPENDIX B – ENVIRONMENTAL FETAURES AND SOIL AND WATER MANAGEMENT

Document attached - Appendix B - 2022-07-10 Jerrabomberra SWMP M+G response, in conjunction with the below HCA systems.

HCA procedure and guide for Soil Erosion, Sediment, Surface Run Off is designated EIG001 and is available on Compass







ElG001 - Soil Erosion, Sediment, Surface Run Off

	GREEN	BLUE	ORANGE	RED
	Nil issues	Some minor issues that were able to be rectified immediately	Some issues that require rectifying in the next 5 days	Some major issues identified that have been elevated to the Project Manager immediately
	A Inspection comple other team member)	ted by site team member (:	Cadets only to complet	e concurrently with
	NAME (PRINT)	SIGNATURE	POSITION	DATE
			VET201745	
10	A Inspection accepte	d by (Project Ivianager):		
10	A Inspection accepte	d by (Project Manager):	P41	
IC	A Inspection accepte	d by (Project Manager):		

THIS INSPECTION FORM MUST BE UPLOADED AND ATTACHED TO AN SQE ACTIVITY (TYPE: ENVIRONMENTAL CHECK) FOR TODAY IN YOUR SITE DIARY

Soil and Erosion Control Plan JHS-CE-2005 – Accepted by civil contractor and implemented. Update 14.4.23

Diversion ditch / trench schortek soutes M+G Consulting

- HCA intend to treat water in sediment ponds with Floculant and pup into stormwater on a as required basis.
- For 1:50 and 1:100 rain events the over flow of water from sediment ponds will be filtered through silt fencing located on the low side of stage 1 and shown on the above JHS-CE-2005.

Condition	Condition Requirement	Document / Sub-Plan Reference
B17	The Applicant must prepare a Construction Soil and Water Management Sub-Plan (CSWMSP) and the plan must address, but not be limited to the following:	-
	Game :1.	Section A Page 1
	incasures to ensure that sediment and other materials are not	Section B Page 2
	describe all erosion and sediment controls to be implemented	Section C Page 2
	should stockpile remain within the proposed school site, an intrusive investigation should be undertaken to delineate the extent and quality of the stockpile (the recommendations of the Report on Limited Contamination Assessment, prepared by Douglas Partners and dated 16 September 2021 must be complied with);	Section D Page 2
	provide a plan of how all construction works will be managed in a	Section E Page 2
		Section F Page 2



20th July 2022

Hindmarsh

Attention: Mr Nick Valois

By email:

< nick.valois@hindmarsh.com.au >

Dear Sir.

Re. New High School Jerrabomberra SSD Conditions - Construction Soil and Water Management

Our Ref. 5555

Introduction

As the site area of the proposed school site is greater than 2,500m², a conceptual Soil and Water Management Plan (SWMP), in accordance with NSW Landcom publication "Soils and Construction 4th Edition" ("Blue Book") has been prepared by M+G Consulting Engineers (M+G).

This conceptual plan is detailed on M+G our drawings: JHS-CE-2005 & JHS-CE-2006, attached.

In conjunction with Hindmarsh & M+G, the earthworks contactor will undertake and provide a Detailed SWMP, including detailed engineering drawings of the soil and water control measures in accordance with the "Blue Book".

Detailed Responses

Condition B17.

(a) Be prepared by a suitably qualified expert, in consultation with Council;

The conceptual SWMP, as detailed on the above drawings, has been prepared by Simon Matthews, CPEng (Civil & Structural), NER, of M+G Consulting.



Zlatko Gashi, BE, CPEng, NER, RPEQ, BPBVic, BPTas











(b) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;

It is proposed that cattle grids will be installed at exit points of the site; these grids will be inspected and maintained as required on a daily basis.

(c) describe all erosion and sediment controls to be implemented during construction, including as a minimum, measures in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book';

The conceptual SWMP detailed on the attached drawings provides conceptual details of the soil and water control measures in accordance with the "Blue Book". Detailed engineering drawings of the specific control measures including the locations of these control measures will be provided in the Detailed SWMP.

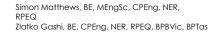
These control measures will include, but not be limited to, sediment fences, filters around stormwater pits, catch drains, check dams, level spreaders, protection to temporary earth stockpiles & sediment basins (if required).

(d) should stockpile remain within the proposed school site, an intrusive investigation should be undertaken to delineate the extent and quality of the stockpile (the recommendations of the Report on Limited Contamination Assessment, prepared by Douglas Partners and dated 16 September 2021 must be complied with);

If any earth piles are required to remain with the site, an intrusive investigation should be undertaken to delineate the extent and quality of the stockpile and the recommendations of the Report on Limited Contamination Assessment, prepared by Douglas Partners and dated 16 September 2021, will be complied with.

(e) provide a plan of how all construction works will be managed in a wet-weather events (i.e., storage of equipment, stabilisation of the Site);

This will include, prior to major rainfall events, a requirement that all potentially highrisk areas of soil erosion such as soil stockpiles, steep disturbed slopes etc. are covered with geotechnical material to reduce potential soil erosion. Sediment traps and check dams etc. will be inspected and maintained if required prior to the storm events.













All erosion and sediment control measures will be required to be regularly inspected, particularly after wet weather events, and should be repaired and/or maintained to ensure their required functionality. Site works will not recommence until all required erosion and sediment control measures have been inspected and maintained after wet-weather events.

Updated refer to page 37 & 38 of the (f) detail all off-site flows from the site.

The present pre-construction off-site flows are via overland flow. During the initial construction stages the off-site flows will also entirely be by overland flow.

Prior to overlands flows flowing off-site they will pass through sediment control devices to ensure that the sediments contained in these flows is trapped and retained by these devices and the discharged waters are free of suspended sediment. These sediment control devices include, check dams, sediment fences and sediment basins. The Detailed SWMP will include the detailed design of these devices, in accordance with the relevant sections of the "Blue Book".

As the stormwater drainage system is progressively installed some of the off-site flows will be via this stormwater drainage system. Prior to these overland flows entering the stormwater drainage pits, sediments will be removed and trapped by geotextile filters or the like around the drainage pits

All these control devices will be required to be maintained and inspected, including the removal of sediment, especially after large rainfall events as part of a monitoring/maintenance programme that will be included in the Detailed SWMP to ensure that the treated discharge water does not contain more than 50 mg/L of suspended solids ("Blue Book" chapter 6.3.3 (d)) and the downstream catchment is not adversely affected by the construction stage of the development.

(g) describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 5-year ARI and 1 in 100-year ARI.

The sediment control devices will be sized to accommodate the design water flows from small (1 in 5-year ARI) and large sized events (1 in 100-year ARI) in accordance with the "Blue Book" Chapter 5. These measures will include, but not be limited to, check dams in drainage channels, stabilized banks to channels and energy dissipators and will be detailed in the Detailed SWMP.

In particular the detailed design including the sizing of the sediment basins takes into account the soil properties of the site and expected weather conditions. These basins are designed to operate in a manner that producers near-clear water discharge (i.e.











total suspended concentrations nor exceeding 50mg/L), especially following period of light rainfall.

These basins are designed in accordance with Chapter 6 of the "Blue Book" as specified in the Detailed SWMP. Chemical flocculation maybe required to achieve the water quality objectives (50 mg/L suspended solids). If the site soil types are clayey or dispersive soils they may require flocculation to achieve this water quality requirement.

We trust this assist and please do not hesitate to contact myself if any further advice or clarification is required.

Yours faithfully M+G Consulting

Simon Matthews

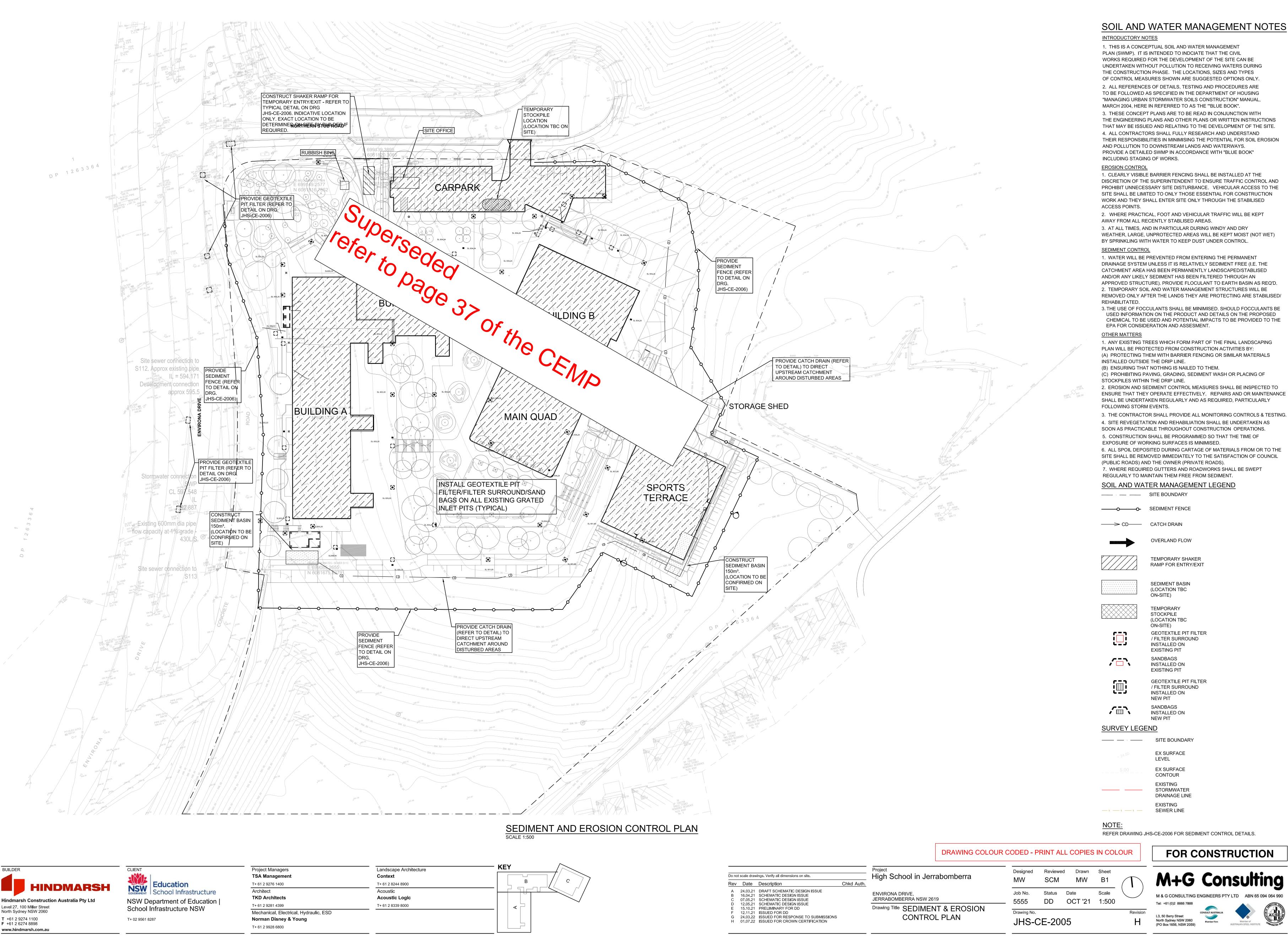
Attached - M+G drawings JHS-CE-2005 & 2006











T +61 2 9274 1100

F +61 2 6274 8898

FOR CONSTRUCTION

North Sydney NSW 2060 (PO Box 1656, NSW 2059)

OVERLAND FLOW

SEDIMENT BASIN (LOCATION TBC

ON-SITE)

TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)

TEMPORARY SHAKER

RAMP FOR ENTRY/EXIT

GEOTEXTILE PIT FILTER

GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON NEW PIT SANDBAGS

/ FILTER SURROUND

INSTALLED ON

EXISTING PIT

INSTALLED ON **NEW PIT**

EX SURFACE

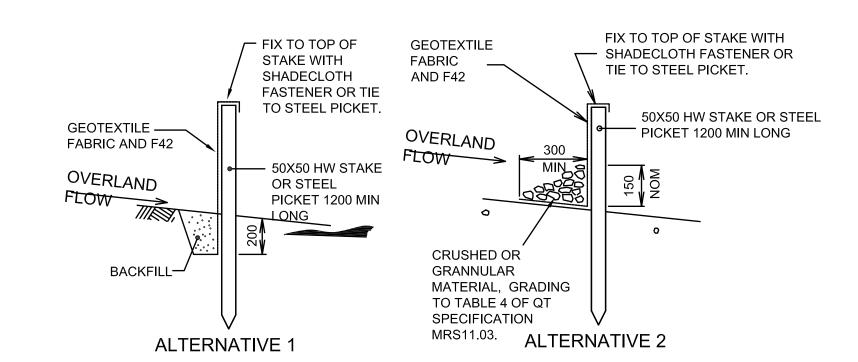
EX SURFACE CONTOUR **EXISTING** STORMWATER DRAINAGE LINE

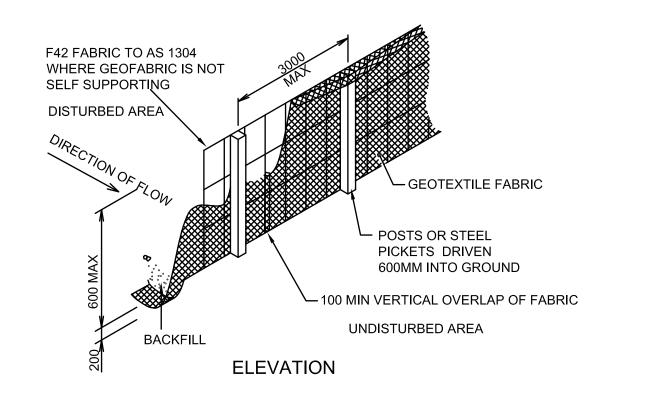
EXISTING SEWER LINE

LEVEL

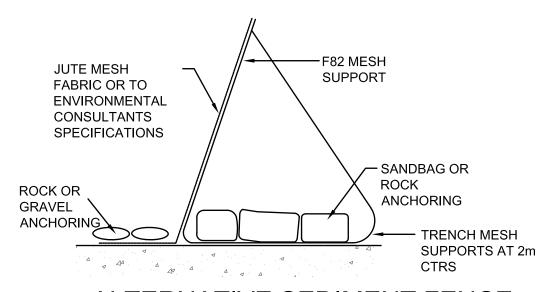
SANDBAGS **INSTALLED ON EXISTING PIT**







SEDIMENT FENCE NOT TO SCALE

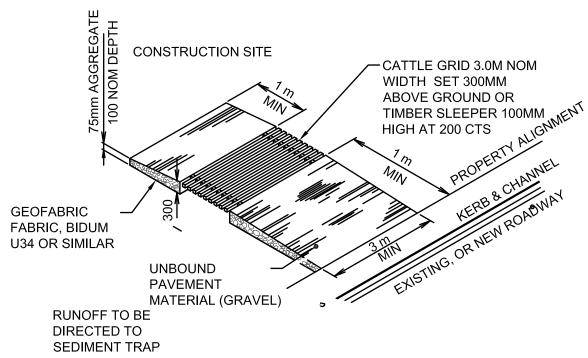


ALTERNATIVE SEDIMENT FENCE

ALTERNATIVE SEDIMENT FENCE NOTES

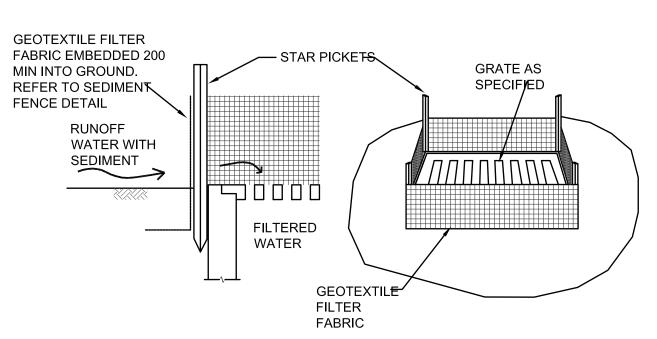
- 1. INSTALL THIS TYPE OF SEDIMENT FENCE WHEN USE OF SUPPORT POSTS IS NOT DESIRABLE OR NOT POSSIBLE. SUCH CONDITIONS MIGHT APPLY, FOR EXAMPLE, WHERE APPROVAL IS GRANTED FROM THE APPROPRIATE AUTHORITIES TO PLACE THESE FENCES IN HIGHLY SENSITIVE ESTUARINE AREAS.
- 2. USE BENT TRENCH MESH TO SUPPORT THE F82 WELDED MESH FACING AS SHOWN ON THE DRAWING ABOVE. ATTACH THE JUTE MESH TO THE WELDED MESH FACING USING
- UV-RESISTANT CABLE TIES.

 3. STABILISE THE WHOLE STRUCTURE WITH SANDBAG OR ROCK ANCHORING OVER THE TRENCH MESH AND THE LEADING EDGE OF THE JUTE MESH. THE ANCHORING SHOULD BE SUFFICIENTLY LARGE TO ENSURE STABILITY OF THE STRUCTURE IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.

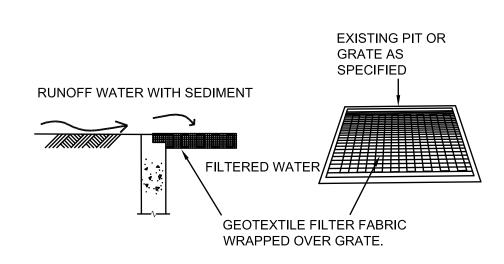


TEMPORARY CONSTRUCTION VEHICLE ENTRY/EXIT SEDIMENT TRAP

NOT TO SCALE

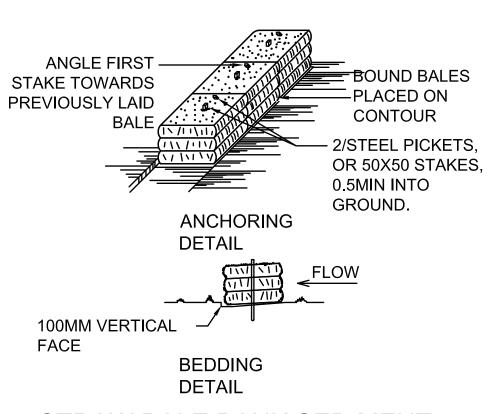


GEOTEXTILE PIT FILTER 1
NOT TO SCALE

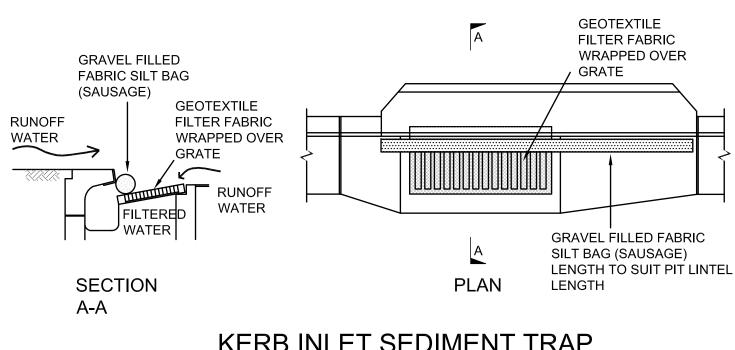


GEOTEXTILE PIT FILTER 2

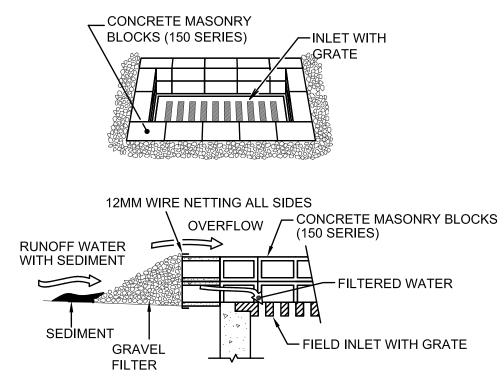
NOT TO SCALE



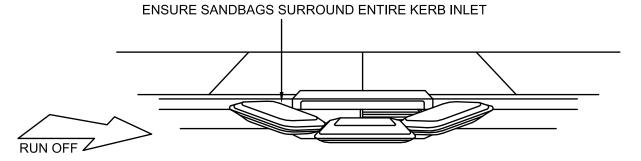
STRAW BALE BANK SEDIMENT CONTROL



KERB INLET SEDIMENT TRAP NOT TO SCALE

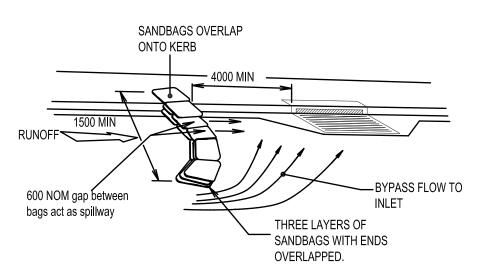


FIELD INLET SEDIMENT TRAP

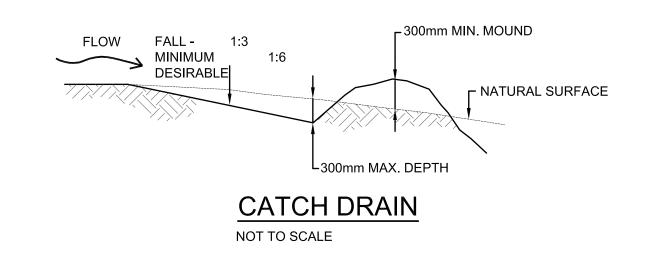


SANDBAG KERB INLET SEDIMENT TRAP

NOT TO SCALE



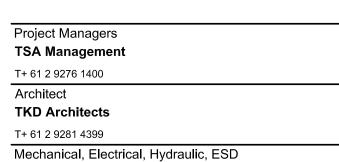
ON GRADE KERB INLET SEDIMENT
TRAP
NOT TO SCALE



F +61 2 6274 8898

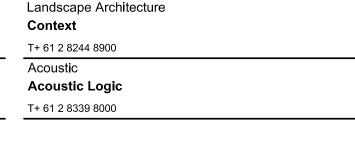
www.hindmarsh.com.au

T+ 02 9561 8287

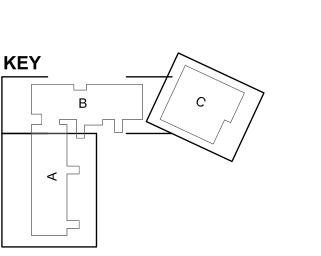


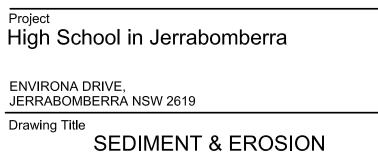
Norman Disney & Young

T+ 61 2 9928 6800



NOT TO SCALE





CONTROL DETAILS

JHS-CE-2006

North Sydney NSW 2060 (PO Box 1656, NSW 2059)

FOR CONSTRUCTION

Consultation R	eport										
SSD-24461956	- B17: Construction Soil and Water Manag	gement Sub-Plan									
	The Applicant must prepare a Construction Soil and Water Management Sub-Plan (CSWMSP)										
	and the plan must address, but not be limited to the following:										
	(a) be prepared by a suitably qualified expert, in consultation with Council;										
Date	Description	Content	Action								
2/08/2022	Online meeting held with QPRC, TSA,	Soil and Water Management Sub-Plan	Hindmarsh to provide statement on use of								
	Hindmarsh, M+G, TKD	was discussed	flocculants to QPRC								
3/08/2022	Email outgoing (Hindmarsh to QPRC)	Statement on use of flocculants									
8/08/2022	Email incoming (QPRC to Hindmarsh)	Comments from QPRC soil team	Comments to be reviewed by civil engineer								
			and incorporated into SWMSP								
18/08/2022	Email outgoing (Hindmarsh to QPRC)	Response letter from Civil Engineer to									
		received comments									

Subject: New High School in Jerrabomberra: QPRC Consultation required to satisfy SSD

Conditions of Consent

Location: Microsoft Teams Meeting

 Start:
 Tue 2/08/2022 1:00 PM

 End:
 Tue 2/08/2022 1:30 PM

Recurrence: (none)

Meeting Status: Accepted

Organizer: Robert McKnight

Hi Derek,

As part of the SSD process and issue of the Crown Certificate for the New High School in Jerrabomberra, there are a number of Plans and Design items we need to meet with council to discuss.

We can forward relevant documentation through prior to the arranged meeting if required.

- B17 Construction Soil and Water Management Sub-Plan consultation required
- B26 Stormwater connection design approval required
- B27 Public Domain Works consultation required to confirm the design meets the requirements of Council

If this time / date does not fit within your calendar please can you provide an alternate time when you are available to discuss.

Cheers

Robert

Microsoft Teams meeting

Join on your computer or mobile app

Click here to join the meeting

Meeting ID: 430 525 498 793

Passcode: FXbz6A

Download Teams | Join on the web

Or call in (audio only)

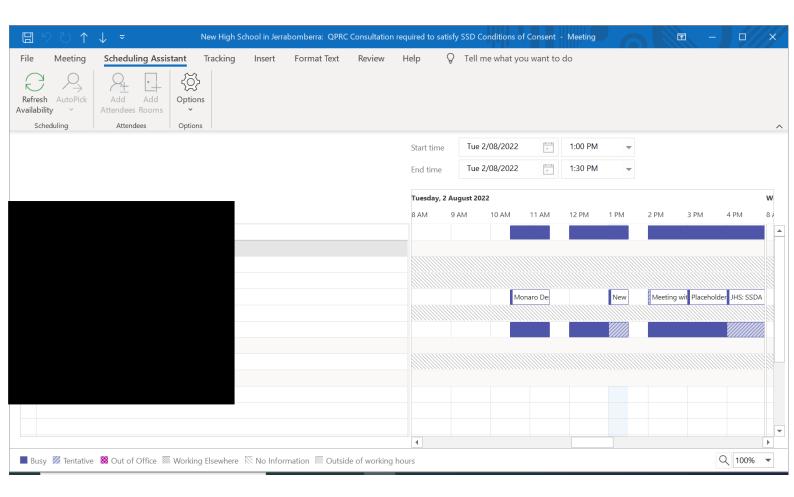
<u>+61 2 8318 0088,,35587394#</u> Australia, Sydney

Phone Conference ID: 355 873 94#
Find a local number | Reset PIN

02/08/2022 - Evidence of Online Meeting



<u>Learn More</u> | <u>Meeting options</u>



Evidence of Consultation



Hi Derek,

Please see attached letter from our civil engineer in response to below comments received from the soil team.

Thanks, Emily







Comments from our soil team.



Queanbeyan-Palerang Regional Council Tel: (02) 6285 6117 Mob: 0408 430 739

Web: www.qprc.nsw.gov.au

Mail: PO Box 90 Queanbeyan NSW 2620



Begin forwarded message:



Subject: RE: JHS: SSD Condition B17 - CSWMSP

Morning All,

Our Comments on High School CSWM

- 1. The sed fences on the boundary run downhill, so should have returns on them to collect sediment, or it will all collect in the bottom corner and overflow onto Environa Drive.
- 2. This is a concept plan so need to see the detailed SWMP before we can comment much further.
- 3. However, we need to ensure the sediment basins are properly constructed. We recently had another sediment basin collapse just up the road from this site, because it had no emergency spillway.
- 4. The EPA will be the ARA for this site, as it is a NSW Govt job.



Subject: JHS: SSD Condition B17 - CSWMSP

[EXTERNAL] This email originated from outside of the organisation. Please do not click links or open attachments unless you recognise the sender and know that the content is safe.

Hi Derek,

Further to our meeting yesterday and pursuant to the following SSD Condition:

B17: Construction Soil and Water Management Sub-Plan (CSWMSP):

The Applicant must prepare a Construction Soil and Water Management Sub-Plan (CSWMSP) and the plan must address, but not be limited to the following:

- (a) be prepared by a suitably qualified expert, in consultation with Council;
- (b) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;
- (c) describe all erosion and sediment controls to be implemented during construction, including as a minimum, measures in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book';

- (d) should stockpile remain within the proposed school site, an intrusive investigation should be undertaken to delineate the extent and quality of the stockpile (the recommendations of the Report on Limited Contamination Assessment, prepared by Douglas Partners and dated 16 September 2021 must be complied with);
- (e) provide a plan of how all construction works will be managed in a wet-weather events (i.e. storage of equipment, stabilisation of the Site);
- (f) detail all off-site flows from the site; and
- (g) describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 5-year ARI and 1 in 100-year ARI.

Please see attached the CSWMSP as discussed yesterday and subsequent statement on use flocculants.

Please provide confirmation of consultation undertaken at your soonest convenience.

Thanks, Emily









______ This email (including any attachments) may contain confidential material and is only intended for the use of the person/s to whom it is addressed. If you are not an intended recipient of this transmission you must not copy, disclose or reproduce this email or act in reliance of the information contained within it. If you have received this transmission in error please notify HINDMARSH immediately and remove it from your system. The integrity of this message cannot be vouched for following transmission on the Internet. It is the responsibility of the recipient to check any attachments for viruses and defects before opening or sending them on and the company will not accept liability for damage caused by viruses transmitted by this email. HINDMARSH, Level 1, 65 Constitution Avenue, Campbell ACT www.hindmarsh.com.au

This message has been scanned for malware by Websense. <u>www.websense.com</u>



M & G Consulting Engineers Pty Ltd (ABN 65094064990) Level 3, 50 Berry Street, North Sydney NSW 2060 PO Box 1656, North Sydney NSW 2059

T: (02) 8666 7888 Internet: www.mg.com.au

3rd August 2022

Hindmarsh



Dear Madame,

New High School Jerrabomberra – Temporary sediment basins use of flocculants Re. Our Ref. 5555

To ensure that the discharging waters from the site meet the requirements Water Quality requirements in terms of suspended solids, temporary sediment basins will be sized and detail documented in the Detailed Soil & Water Management Plan (SWMP).

These sediment basins will be sized so that the use of flocculants will not be require or use of flocculants is minimised.

The use of flocculants will be in accordance with "Landcom's Soils & Construction-Managing Urban Stormwater", the "Blue Book" Section 6 and "Best Practice Erosion & Sediment Control, Book 2 – Appendix B" IECA Australasia.

Should flocculants be used to treat the water captured onsite, information on the product and details on the proposed chemicals to be used and potential impacts will be provided to the EPA for consideration and assessment.

We trust this meets your requirements and please do not hesitate to contact ourselves if you require any further advice or clarification.

Yours faithfully

M+G Consulting

Simon Matthews











M & G Consulting Engineers Pty Ltd (ABN 65094064990) Level 3, 50 Berry Street, North Sydney NSW 2060 PO Box 1656, North Sydney NSW 2059

T: (02) 8666 7888 Internet: www.mg.com.au

18th August 2022

Hindmarsh

By email:

< nick.valois@hindmarsh.com.au >

Attention: Mr Nick Valois

Dear Sir,

New High School Jerrabomberra – Construction Soil and Water Management Re. Our Ref. 5555

In reply to Council's comments:

1. The sed fences on the boundary run downhill, so should have returns on them to collect sediment, or it will all collect in the bottom corner and overflow onto Environa Drive.

We have amended the extent of the sediment fence adjoining Environa Drive, as above. Amended drawing JHS-CE-2005 rev J, attached.

2. This is a concept plan so need to see the detailed SWMP before we can comment much further. (note only)

Noted.

- 3. However, we need to ensure the sediment basins are properly constructed. We recently had another sediment basin collapse just up the road from this site, because it had no emergency spillway. The sediment basin(s) will be fully designed and detailed in the detailed SWMP in accordance with the "Blue Book" and will include an emergency spillway for each basin.
- 4. The EPA will be the ARA for this site, as it is an NSW Govt job. Noted.

We trust this meets your requirements and please do not hesitate to contact ourselves if you require further clarification.

Yours faithfully

M+G Consulting

Simon Matthews CPEng, NER No. 836676

Attached - Drawing JHS-CE-2005 rev J

Principals: Simon Matthews, BE, MEngSc, CPEng, NER,



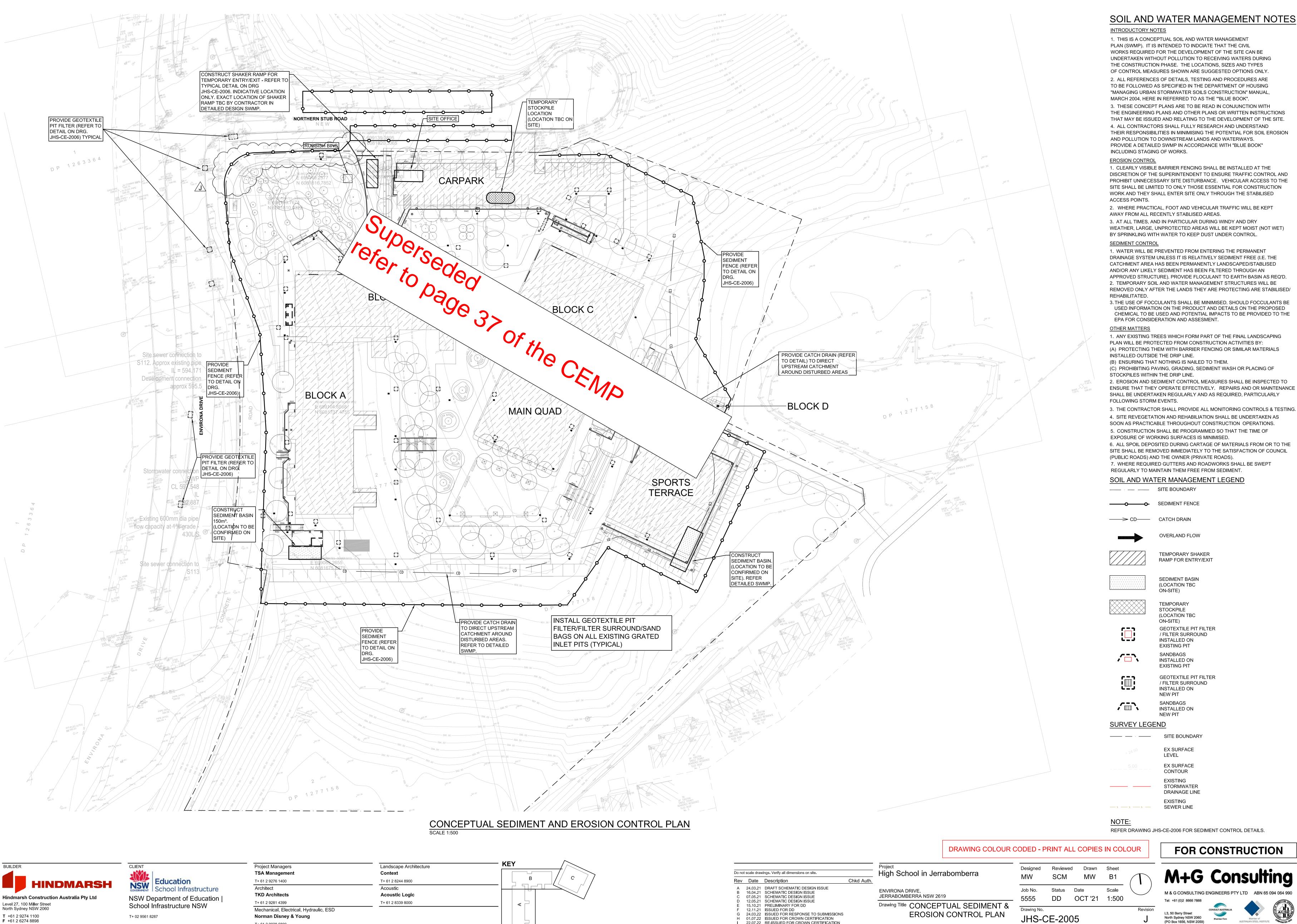








5555 Monaro School Cluster 2022-08-18.docx



22.07.22 RE-ISSUED FOR CROWN CERTIFICATION

17.08.22 SEDIMENT FENCE AMENDED TO ENVIRONA DRIVE

F +61 2 6274 8898

www.hindmarsh.com.au

T+ 61 2 9928 6800

FOR CONSTRUCTION

North Sydney NSW 2060

(PO Box 1656, NSW 2059)

OVERLAND FLOW

SEDIMENT BASIN

GEOTEXTILE PIT FILTER

GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON **NEW PIT**

/ FILTER SURROUND

INSTALLED ON

EXISTING PIT

INSTALLED ON EXISTING PIT

SANDBAGS

SANDBAGS

INSTALLED ON **NEW PIT**

SITE BOUNDARY

EX SURFACE

EX SURFACE CONTOUR **EXISTING** STORMWATER DRAINAGE LINE

EXISTING SEWER LINE

LEVEL

(LOCATION TBC

ON-SITE)

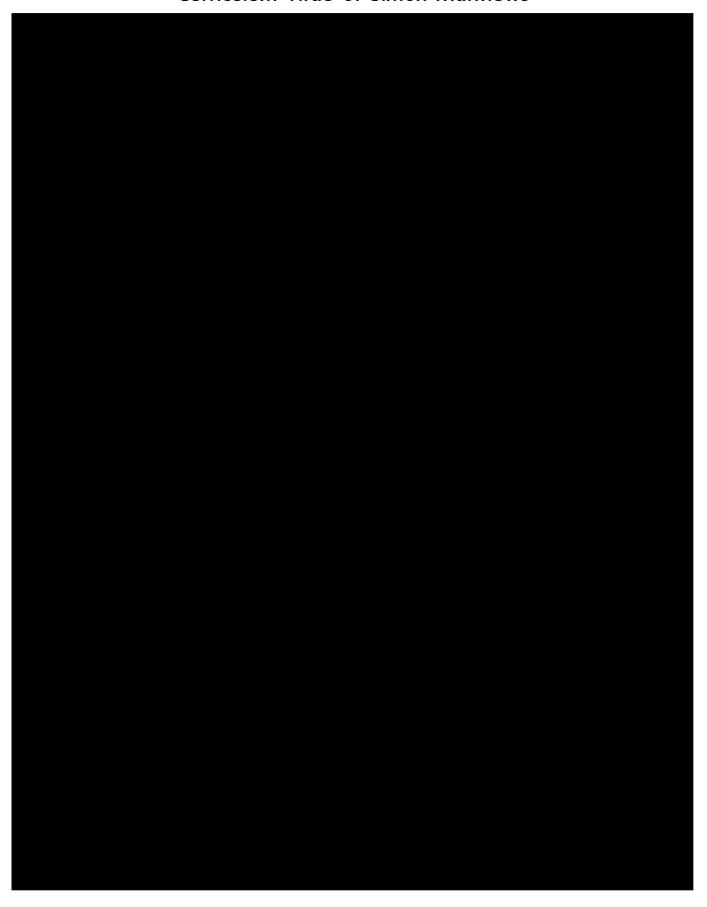
ON-SITE)

TEMPORARY STOCKPILE (LOCATION TBC

TEMPORARY SHAKER RAMP FOR ENTRY/EXIT



Curriculum Vitae of Simon Matthews



(g) describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 5-year ARI and 1 in 100-year ARI.

Section G

Page 2

APPENDIX C – ROLES AND RESPONSIBILITIES MATRIX

Attached document - Appendix C - C-PRE-F026 Roles and Responsibility Matrix Jerrabomberra Rev A_FINAL_190522



Project Roles and Responsibility Matrix

L = Leadership (Accountable)
P = Participate in / Complete Task (Responsible)

C = Communicated to

M = Mandatory

Project Name : Jerrabomberra High School

Project Revision Number : A - FINAL Date

IMPORTANT NOTE - BOTH the Project Manager and the relevant employee MUST be satisfied with allocated roles / responsibilities, this includes ensuring the employee has satisfactory competency to support agreed responsibilities.

Where a competency / skill gap has been identified please refer to the Learning and Development Procedure - for further action requirements

	Company Positions		Standard Project Positions \ Roles						
Task	- State Manager	- Construction Manager of	ප්රීම් මේ - State SQE Manager ර	- Project Manager (PM)	- Site Manager (SM)	- Contract Administrator (CA)	- Project Coordinator / Site	- Construction Worker 1	- Construction Worker 2
	GMC	MCO	MCO	MCO & PD	PM	PM	PM	SM	Reports to SM
Initials of Person Holding Position									
Project General									
Point of Contact for Client Representative	Р	Р		L		P			
Point of Contact for Consultants		P		L	P	P	Р		
Point of Contact for Industrial Relations	Р	P	P	L	Р		_		
Manage and Track Right of Entry Notices			Р	P	L	-	Р		-
Manage and Track Code of Practice, Legislative Requirements			Р	L	Р	Р			-
Planning									\vdash
Appoint Project Team & maintain resourcing	Р	L		Р					
Lead and mentor the team	P	P		1	Р				
Manage / Roster Staff				L	P	Р			
Establish / Maintain Roles and Responsibilities Matrix and Induct team to it's use				L			Р		
Employee performance appraisals as per Company Schedule		Р		L					
Identify, Coordinate & Implement Training Requirements			Р	Р	L		Р		
Review Head Contract	Р	Р		P		L			
Understand and keep abreast of Terms & Conditions	Р	P		L		P			
Define the Contractual Project Scope	Р	P		L		P	P		
Identify Contractual Risks	Р	P		L		Р			
Develop and update Contract Procedures / Processes				L		P			
Store Contract document - client						L			—
Building Works Approvals				L		P			\vdash
Establish project budget Establish Cheops code allocation	Р	Р		P		P L			
Payment of Subcontractors and Suppliers				P		L			\vdash
Identify / Design or Service Scope				1		P			\vdash
Consultant - contractor Selection / Shortlist				L		P			
Develop Brief, Scope and Profile				L		P			
Consultant Agreement Schedules				L		Р			
Consultant Agreement Recommendation				L		Р			
Execute Consultant Agreement				L		P			
Monitoring of consultant performance				L		Р	Р		
Manage and undertake Dilapidation report				L	Р				
Arrange and Maintain Facilities / toilets/tables/chairs					L				
Arrange and Maintain Equipment /locks/security/					L				
Arrange and Maintain Services / electrical/plumbing					L	_			-
Arrange and Maintain IT requirements				L P		P L	-		
Prepare, monitor and update - files, drawings, ACONEX Establish & Maintain Amenity Cleaning & Supply				Р	L	L	Р	Р	Р
Identify, provide and maintain special storage requirements (inc Haz Substance)					L			Г	F
Establish & Maintain Perimeter Fencing					L			Р	Р
Establish & Maintain Entry					L			•	
Establish & Maintain Environmental conditions					L			Р	Р
Establish & Maintain Safety Information /posters/hazard reporting/signage					L				
Establish & Maintain Company Branding				L	P	P			
Arrange and Maintain Stationary & Miscellaneous Supplies						L			
Prepare, monitor and update Project Management Plan				L	P		P		
Prepare, monitor and update Project Commencement Checklist	ļ			L	Р		Р		
Prepare, monitor and update Performance Targets	ļ			L	P	P	P		
Prepare, monitor and update Stakeholder Risk Profile	 			L	P	P	P		
Prepare, monitor and update Project Risk Assessment	1	-		L	Р	Р	Р		\vdash
Design Propose monitor and undate Safety in Design Bink Profiles	 						-		
Prepare, monitor and update Safety in Design Risk Profiles			Р	L	Р		P P		\vdash
Participate in design and pre-construction planning Conducting workshops with customers/clients at the conceptual design stage	1	P		L	r	Р	P		\vdash
Conducting workshops with customers of the conceptual design stage	<u> </u>			L		P	l	l	

Doc No: C-PRE-F026 Rev. No: 02 Page No 1 of 6

Linear with Annual Engineers dis regarding possibilitations softward individual contains an experimental contains an expe		_								
Library for American middle of Control of Co								e e		
Library for American middle of Control of Co			ıger	ь	(Wc		ator	ı. / Si	er 1	er 2
Library for American middle of Control of Co		_	Mana	ınage	Jer (F	(SM)	inistr	inato	Nork	Nork
Library for American middle of Control of Co		nage	fion I	E Wa	lanaç	ager	Admi	oordi	tion /	tion /
Library for American middle of Control of Co	Task	e Ma	struc	e SQ	ect M	Mana	tract	ect C visor	struc	struc
Lister and Antheritor, response on expenses generations control and septiments. Lister y fundamental and accordance and control expenses. Lister y fundamental and accordance and accordance and control expenses. Lister y fundamental and accordance		State	Cons	State	Proje	Site	Conf	Proje uper	Cons	Cons
First Conference of Commentation on addition to congruence and commentation appeals.	Liaise with Architects, Engineers etc regarding specifications technical matters.				L	P	' =	P		
Progress and such as the start progress of progress of the start p					L	P		Р		
Liste to the comprison of each published and experiences	Identify interface, coordination and procurement issues relating to design				L	Р	Р			
The Enterland Control of the Company of the Control	Prepare schedules to ensure the timely completion of design services for projects.				L	Р	Р	Р		
Design for set the information of the companion of the co	Liaise with design team, client, sub-contractors and suppliers				L	Р	Р	Р		
Design for what sharpeds P	Field testing or trialling proto-types with a representative group of users				L	Р	Р	Р		
Per Land or worker and under process work of more control and a processor	Design for safe maintenance			Р	L	Р				
Person more and update in the promote required services and region of the promote	Design for safe alteration			Р	L	Р	Р			
International design procedure in consistance of the Committee of the Comm					L		Р			
Libertative and design safely reviews for constructability, operability and maintenance ESC Procurement Frozen informative Condition Frozen informative Condition Frozen and	Prepare, monitor and update ITPs, product inspections, sampling register				P	Р	Р	L		
ESS Newses Procurement Procurement Procurement Procurement Procurement Procurement Program Procurement Shaduk Markins and Update procurement shaduk Markins and Update procurement shaduk Program very procurement shaduk Procurement Procuremen					L					
Procurement Prepage Procurement Sidestales Prepage Coast P					L					
Proper Pocument Stratular Markins and Light Concernent who had in long lead time plantinations in the strategy of the property who had in long lead time plantinations in the strategy of the property of the strategy of the	ESD Reviews				L	Р	Р	Р		
Proper Pocument Stratular Markins and Light Concernent who had in long lead time plantinations in the strategy of the property who had in long lead time plantinations in the strategy of the property of the strategy of the		1		ļļ		 	 	<u> </u>	igspace	igspace
Montrol of Update procuremental cardials between characters of the property of the procure characters of the procurement of the		1	<u> </u>			<u> </u>	<u> </u>			
Interest Floor Program State of Ast Counterwater (in the Program Sta	,	1			-	Р			igsquare	igsquare
Prepare staged of own A documentals into the Internal Final Services Staged from A documentals into the Internal Final Services Staged from A documental Services Services Staged from A documental Services Se		1	1	ļ	P			L	igwdown	igspace
Internal Floor ServiceShockine Develop designed scope of winds (in conjunction with protores) Develop designed scope of winds (in conjunction with protores) Develop designed scope of winds (in conjunction with protores) Develop designed scope of winds (in conjunction with protores) Develop designed scope of winds (in conjunction with protores) P		1		<u> </u>	L				ш	
Borriems/Frauchuse Liberting any discrepancies, anomales associated with occuments Liberting any discrepancies, anomales associated with occuments Develop dissible for convoiction with gradience) Libertine formed DISA & Environment or forecase Libertine formed DISA & Environment or forecase Libertine formed DISA & Environment or forecase Resistence formed in the sounders of prain arrivers of all services by P		-	Р	<u> </u>	Р	Р		Р	\vdash	\vdash
External Placese Letter any discrepances, anomalies associated with decoments Province plateful stronger of wholes for, conjunction with syndroms) Devotor plateful stronger of wholes for, conjunction with syndroms) Province plateful stronger of wholes for, conjunction with syndroms) Province plateful stronger of wholes for, conjunction with syndroms) Province stronger be minimal and supplies of the stronger of the st		-	-	<u> </u>	<u> </u>	<u> </u>	L			
Identify any discrepancies, strontines associated with documents P P P P P P P P P		1	-	\vdash	-	 	 	L	\vdash	\vdash
Develop disabled scoop of works of a conjunction with protoms			-				_	-	ш	\vdash
Ubdated formal CHS & Environ of Transform Review Ladders and qualifation determine conformity with the tender Interiors Florid Servicus Structure External Florid Servicus Structure External Florid External Florid Servicus Structure External Florid Ext		1	Р		L	P			\vdash	\vdash
Services Manager to be involved in First review of of storoidals (Fineward Services Record Ser						<u> </u>	<u> </u>	Р		
Review funds and quotation to determine conformity with the fundor intrinsial Fillow Servicus Studure Extensificacies Data recommendation to pragge the contractor Let Internation for the pragge the contractor P P P P L P P P L P P L P							В	n	\vdash	
Internal Files. Esternal Faculties Esternal Faculties Durit a recommendation be orgage the controlors Esternal Faculties Durit a recommendation be orgage the controlors P P P P P P P P P P P P P P P P P P P									\vdash	\vdash
Services Tructure	·				P		_	Г	\vdash	\vdash
Enternal Faculties Define recommendation per internal Approval Internal Faculties Sent-oad Students Sent-oad Students Enternal Faculties Sent-oad Students Enternal Faculties Sent-oad Students Enternal Faculties Sent-oad Students Enternal Faculties Enternal Faculties Sent-oad Students Enternal Faculties Sent-oad Students Enternal Faculties Sent-oad Students P P L P P L P P L STUDENTS Sent-oad Students Sent-oa								-		
Definition Position Positio										
Issue Recommendation per therein Approval Infanta IFIDE Infanta IFIDE Servous Structure External Fractes Issue Subcontract Agreement (No tettans of Infant) Delivery Sins Supprivation & Coordination Structural Indees Servous Servo		P	Р		P		1	Р		H
Internal Flood: Services Structure Extensil Floodes Services Structure Extensil Floodes Services Services Services Services Services Finishes rades Services Extensil Works: Helea Windows External Balustrade-Waterpoording Public Realm Coordinators Surviciant Tardes Services Finishes rades Extensil Works: Helea Windows External Balustrade-Waterpoording Public Realm P P P U P P P P U P P P P P U P P P P P					- 1					H
Esternal Fisades Issue Subcontract Agreement (No letters of Intent) Delivery Sits Supervision & Coordination Situation Indes Services Services P P L Finishers Indes Esternal Works: HeleVilindows-External Balustrade-Waterproofing-Public Realm Coordinators Sinutural Indes Dept		•			_			•		
Issue Subcontract Agreement (No Witers of Intent) Delivery Sins Supervision & Coordination Structural trades Services Sincutural trades Sincutural trades Sincutural trades Sincutural trades Sincutural trades Services Trades Sincutural trades Services Trades Serv	Services/Structure							L		
Delivery	External/Facades									
Site Supervision & Coordination Services Finisher strades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm P P P P P L Coordinators Sitructural trades Services Trades Finisher strades Finisher strades Finisher strades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm Site Progressive Cien up and Wastle Removal / Control L P P P L P P P L P P P L P P P P P P	Issue Subcontract Agreement (No letters of Intent)				Р		L	Р		
Site Supervision & Coordination Services Finisher strades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm P P P P P L Coordinators Sitructural trades Services Trades Finisher strades Finisher strades Finisher strades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm Site Progressive Cien up and Wastle Removal / Control L P P P L P P P L P P P L P P P P P P	Delivery									
Services Finishes trades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm Coordinators Shutzutra lardades Services Trades Finishes trades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm P P P L P P P L Services Trades Finishes trades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm P P P P L P P P L Services Trades Finishes trades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm Stee Progressive Clean up and Waste Removal / Control Stee Progressive Clean up and Waste Removal / Control Stee Progressive Clean up and Waste Removal / Control Waterials Handling & Delivery coordination Record of plant line and note of of-line number L P P P Recordinate Subcontractor Resources P P L P P P P P P P P P P P P P P P P P										
Finishes trades External Works: Hebel/Windows/External Balustrade/Waterprocling/Public Realm Coordinators Shrutural trades Shrutural trades Services Trades Finishes trades External Works: Hebel/Windows/External Balustrade/Waterprocling/Public Realm P P P L Finishes trades External Works: Hebel/Windows/External Balustrade/Waterprocling/Public Realm P P P L Site Progressive Clean up and Waste Removal / Control Materials Handling & Delivery coordination Site Progressive Clean up and Waste Removal / Control Materials Handling & Delivery coordination Finishes trades External Works: Hebel/Windows/External Balustrade/Waterprocling/Public Realm P P P L P P P L P P P P L P P P P L P P P P	Structural trades				Р	L				
External Works: Nebel/Windows/External Balustrade/Waterproofing/Public Realm Coordinators Siructura trades Services Trades Finishes trades External Works: Nebel/Windows/External Balustrade/Waterproofing/Public Realm External Works: Nebel/Windows/External Balustrade/Waterproofing/Public Realm Site Progressive Clean up and Waste Removal / Control Site Progressive Clean up and Waste Removal / Control Site Progressive Clean up and Waste Removal / Control Materials Handling & Delivery coordination Record of paths in earl note of of him number Coordinate Subcontractor Resources Take Weekly Photos, date and decitonically file P P P L P P P P P P P P P P P P P P P	Services				P	Р	Р	L		
Coordinators Structural trades P P L	Finishes trades				P	P				
Structural trades Services Trades Finishes trades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm Site Progressive Clean up and Waste Removal / Control Site Progressive Clean up and Waste Removal / Control Site Progressive Clean up and Waste Removal / Control L PP P Materials Handling & Delivery coordination Record of plant hire and note of off-thire number Coordinate Subcontractor Resources PP L PP Take Weekly Photos, date and electronically file PP P L PP Progress moint and update sub-contract register Draft Subcontracts for approval and sign off Approve and sign off Subcontracts PP P L P Approve and sign off Subcontracts PP P L P PP L P PP L P PP L P PP L P Remond of plant hire and note of the deletion in the deletion of the	External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm				Р	Р				
Services Trades Firisshes trades External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm P P P P Record of Jean Horizon and Waste Removal / Control Materials Handling & Delivery coordination Record of Jean International and the of off-hire number Coordinates Subcontractor Resources Take Weekly Photos, date and electronically file Prepare, monitor and update sub-contract register Draft Subcontractor Services Take Weekly Photos, date and electronically file Prepare, monitor and update sub-contract register P P L P P L P P L P P L P P L P P L P P L P P L P P L P P P L P P P L P P P L P										
Finishes trades External Works: HebeilWindows/External Balustrade Waterproofing/Public Realm Site Progressive Clean up and Waste Removal / Control Materials Handling & Delivery coordination Record of Jaint hire and note of GH-Fine number Coordinate Subcontractor Resources Take Weekly Protos, date and electonically file P P L P P P L P P P L P P P L P P P P P										
External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm Site Progressive Clean up and Waste Removal / Control Materials Handling & Delivery coordination Record of plant hire and note of off-hire number Coordinates Bubcontractor Resources Take Weekly Photos, date and electronically file Prepane, monitor and update sub-contract register Draft Subcontracts for approval and sign off Approve and sign off Subcontracts P P P L P D L P D D D D D D D D D D D D					-			L		
Site Progressive Clean up and Waste Removal / Control Materials Handling & Delivery coordination Record of plant hire and note of off-hire number Coordinate Subcontractor Resources Take Week)broots, date and electronically file Prepare, monitor and update sub-contract register Draft Subcontractor for approval and sign off Prepare, monitor and update sub-contract register Draft Subcontractor for approval and sign off Approve and sign off Subcontracts P P P L Approve and sign off Subcontracts P P P L Approve and sign off Subcontracts P P P L Approved of Subcontractor / Supplier claims Payment of Subcontractor / Supplier claims Payment of Subcontractor of Subcontractor of Supplier claims P P L Ensure adequate retention held prior to final claims (incl defects / NCR's) P P L Ensure subcontractor submit of statutory doc's (insurance, workcover, licences etc) Manage BG's / retentions at project completion D p L U Durchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate Weekly timesheets for PM signature Collate Weekly timesheets for PM signature Collate Weekly timesheets for PM signature Control of incoming & outgoing fax P P L P P L P P P L P P L P P L P P L P P L P P L Establish Vinishance orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables D P L Collate Weekly timesheets for PM signature Collate Weekly timesheets for paproval P P L P P P L P P P P P P P P P P P					-					
Materials Handling & Delivery coordination Record of Jehr hire and note of off-hire number Coordinate Subcontractor Resources Take Weekly Photos, date and electronically file Prepare, monitor and update sub-contract register Draft Subcontracts for approval and sign off Approve and sign off Subcontracts for approval and sign off Approve and sign off Subcontracts PP P L P	External Works: Hebel/Windows/External Balustrade/Waterproofing/Public Realm	1		ļļ	P	Р	 	<u> </u>	igspace	igspace
Materials Handling & Delivery coordination Record of Jehr hire and note of off-hire number Coordinate Subcontractor Resources Take Weekly Photos, date and electronically file Prepare, monitor and update sub-contract register Draft Subcontracts for approval and sign off Approve and sign off Subcontracts for approval and sign off Approve and sign off Subcontracts PP P L P										
Record of plant hire and note of off-hire number Coordinate Subcontractor Resources Take Weekly Photos, data and electronically file Prepare, monitor and update sub-contract register Prepare discontracts or approval and sign off Approve and sign off Subcontracts Approval of Subcontracts PP P L Approval of Subcontracts PP P L Approval of Subcontractor Supplier claims Py P L PP L PP L PP L Approval of Subcontractor Supplier claims Py P L Ensure adequate retention held prior to final claims (incl defects / NCR's) PP L P Ensure adequate retention held prior to final claims (incl defects / NCR's) PP L P Ensure subcontractor submit of statutory doc's (insurance, workcover, licences etc) Manage BGS / retentions at project completion Log purchase orders L P P L Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly imesheets for PM signature Collate Weekly imesheets for PM signature P P L P P L P P L Frepare & Update Variation Register P P L P P L Ensure Subcontractors P P L Frepare Subcontractors P P L P P L Ensure Subcontractors P P L Frepare & Update Variation Quotations Issue Variation Notices to subcontractors P P L Enter Variations into cheops. (confirm Process)	•	1						<u> </u>		
Coordinate Subcontractor Resources Take Weekly Photos, date and electronically file Prepare, monitor and update sub-contract register Draft Subcontracts for approval and sign off Approve and sign off Subcontracts PP P L PP P L		1						<u> </u>		
Take Weekly Photos, date and electronically file Prepare, monitor and update sub-contract register Draft Subcontracts for approval and sign off Approve and sign off Subcontractor / Supplier claims Payment of Subcontractor / Supplier claims Payment of Subcontractors and Suppliers Ensure adequate retention held prior to final claims (incl defects / NCR's) PP L PP		1	1	ļļ					Р	Р
Prepare, monitor and update sub-contract register Draft Subcontracts for approval and sign off Approve and sign off Subcontracts P P P L Approval of Subcontractor / Supplier claims Payment of Subcontractors and Suppliers Ensure adequate retention held prior to final claims (incl defects / NCR's) Preparation of Client Progress Claim and follow up payment of Ensure subcontractor submit of statutory doc's (insurance, workcover, licences etc) Manage BG's / retentions at project completion Log purchase orders Establish a register and monitor project reimbursables Establish a register and monitor project reimbursables Collate monthly timesheets for Approval Control of incoming & outgoing fax P P L P L P L P L P L P L P L		-	-	 	Р		<u> </u>		\vdash	\vdash
Draft Subcontracts for approval and sign off Approval of Subcontracts Approval of Subcontractors Approval of Subcontractor / Supplier claims Payment of Subcontractors and Suppliers Ensure adequate retention held prior to final claims (incl defects / NCR's) Preparation of Client Progress Claim and follow up payment of Ensure subcontractor submit of statutory doc's (insurance, workcover, licences etc) Manage BG's / retentions at project completion Log purchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate Monthly timesheets for PM signature Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Quotations Issue Variation Quotations Enter Variations into cheops. (confirm Process)		1	-	 		Р			\vdash	$\vdash \vdash$
Approval of Subcontractors Approval of Subcontractors and Suppliers Ensure adequate retention held prior to final claims (incl defects / NCR's) Preparation of Client Progress Claim and follow up payment of Ensure subcontractors submit of statutory doc's (insurance, workcover, licences etc) Manage BG's / retentions at project completion Log purchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly timesheets for approval Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Manage timely approval of variations Enter Variations into cheops. (confirm Process)		1	-	 	-	_	_	Р	\vdash	$\vdash \vdash$
Approval of Subcontractor / Supplier claims Payment of Subcontractors and Suppliers Ensure adequate retention held prior to final claims (incl defects / NCR's) Preparation of Client Progress Claim and follow up payment of Ensure subcontractor submit of statutory doc's (insurance, workcover, licences etc) Manage BG's / retentions at project completion Log purchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monithly timesheets for PM signature Collate Weekly timesheets for approval Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register P L P P P L Entery Variation Notices to subcontractors Enter Variations into cheops. (confirm Process)		P.	D		-			 	\vdash	\vdash
Payment of Subcontractors and Suppliers Ensure adequate retention held prior to final claims (incl defects / NCR's) Preparation of Client Progress Claim and follow up payment of Ensure subcontractor submit of statutory doc's (insurance, workcover, licences etc) Manage BG's / retentions at project completion Log purchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly timesheets for approval Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Manage timely approval of variations Enter Variations into cheops. (confirm Process)		Р	Р	-	-	_		<u> </u>	\vdash	\vdash
Ensure adequate retention held prior to final claims (incl defects / NCR's) Preparation of Client Progress Claim and follow up payment of Ensure subcontractor submit of statutory doc's (insurance, workcover, licences etc) Manage BG's / retentions at project completion Log purchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly timesheets for approval Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare I L D P P L PP L P P P L PP P L P P P L PP P L P P P L Prepare A Update Variation Register PP L P P L P P P L Establish a register and monitor project reimbursables Establish a register and monitor project reimbursables Collate Weekly timesheets for approval Control of incoming & outgoing fax P P L P P P L PP P L P P P L Establish a register and monitor project reimbursables Establish a register and monitor project reimbursables P P L P P P L Establish a register and monitor project reimbursables P P L P P P L Establish a register and monitor project reimbursables Establish a register and monitor project reimbursables P P L P P P L P P L P P P L P P L P P L P P L P P L P P L P P L Establish a register and monitor project reimbursables Establish a register and monitor project reimbursables Establish a register and monitor project reimbursables P P L P P L P P L P P L P P L P P L P P L P P L P P L P L P P L P		+	-	\vdash	-	\vdash		<u> </u>	\vdash	\vdash
Preparation of Client Progress Claim and follow up payment of Ensure subcontractor submit of statutory doc's (insurance, workcover, licences etc) Manage BG's / retentions at project completion Log purchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly timesheets for PM signature Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)		+	1	\vdash		\vdash		 	\vdash	\vdash
Ensure subcontractor submit of statutory doc's (insurance, workcover, licences etc) Manage BG's / retentions at project completion Log purchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly timesheets for PM signature Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Prepare / Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)		+	 	\vdash	-	\vdash			\vdash	\vdash
Manage BG's / retentions at project completion Log purchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly timesheets for approval Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)		+	 	\vdash	-				\vdash	\vdash
Log purchase orders Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly timesheets for approval Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)		+	 	\vdash	-				\vdash	\vdash
Establish a register and monitor site IT Recoverables Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly timesheets for approval Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)		1			-	Р				
Establish a register and monitor project reimbursables Collate monthly timesheets for PM signature Collate Weekly timesheets for approval Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)	**	1								
Collate monthly timesheets for PM signature Collate Weekly timesheets for approval Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)	-	1			-					
Control of incoming & outgoing fax Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)					Р	Р	L			
Prepare Letting Schedule; nominate responsible party for each trade Prepare & Update Variation Register Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)					Р		Р		Р	Р
Prepare & Update Variation Register Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)							Р	L		
Prepare / Issue Variation Quotations Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process)	Prepare Letting Schedule; nominate responsible party for each trade				L		L	Р		
Issue Variation Notices to subcontractors Manage timely approval of variations Enter Variations into cheops. (confirm Process) P P L P L	Prepare & Update Variation Register				P		L			
Manage timely approval of variations Enter Variations into cheops. (confirm Process) P L L	Prepare / Issue Variation Quotations				-		L			
Enter Variations into cheops. (confirm Process)						_ D	1	D		
						Р	L	Р		
Enter Budgets into cheops P L	Manage timely approval of variations					P	L	Р		
	Manage timely approval of variations Enter Variations into cheops. (confirm Process)				Р		L L	P		

	nager	Construction Manager	State SQE Manager	Project Manager (PM)	Site Manager (SM)	- Contract Administrator (CA)	Project Coordinator / Site pervisor	Construction Worker 1	Construction Worker 2
Task	State Manager	Construc	State SQ	Project M	Site Mana	Contract .	Project C	Construc	Construc
Prepare Back charge Register	- 1	1	1	P		L	ਾ ਲ	1	
Issue Back charge notices to Subcontractors				P		L			
Respond to Subcontractor Claims - EOT				Р		L			
Maintain an accurate site diary					L				
Prepare and Issue Monthly Client Reports				L		P			
Prepare and Issue Monthly SQE Reports Prepare, monitor, update and Financial Calendar				P	L	L			
Prepare, monitor, update and Security Bonds				P		L			
Prepare and Issue Monthly Cheops Reporting				P		L			
Prepare, monitor, update and Progress Claims				Р		L			
Prepare, monitor, update and Issue Cash Flow				P		L	P		
Prepare, monitor and update Risk and Opportunity Register (Project \ Stakeholder)				L	P	P			
Prepare / Update Contingency report Prepare Monthly Cost Report as per established format (ongoing through month with regularly input)				P L		L P			
Prepare, monitor and update Weekly Programs				P	L	P	Р		
Prepare, monitor and update 4 weekly programs				P	L		P		
Track activities on programme ; Master Programme to be visible on Wall				L	P		Р		
Prepare, monitor, update and display Staging Plan (Site or Office wall).				P	L				
Subcontractor programmes to be developed				L	Р		Р		
Prepare, monitor and update Commissioning Programme				P	P		L		
Prepare, monitor and update Master Program (electronic) Collate and Issue Fortnightly Programs to subcontractors.				L	P P		Р		$\vdash \vdash \vdash$
Issue Updated Master program to Subcontractors / Client				L	P		Р		
Track critical path activities				P	L		P		
Prepare, monitor and update EOT / Delay Register				P	P	Р	-		
Substantiate EOT / Delay Claims				Р	Р	Р			
Prepare schedules to ensure the timely completion of design services for projects.				L	Р	P			
Meeting Schedule to be developed and issued to all parties	-			L					
Project Control Group Meeting Client / Consultant Meeting	Р	Р		L	Р		Р		
Subcontractor Meetings				P	L		P		
Design Meetings (Hindmarsh lead meetings or involvement)				L	P		P		
Internal Programming / Production Meeting - Construction program				L	Р				
Site Safety Committee Meeting				P	L		P		
Staff/ Team Meeting		P		L	Р	Р	P	P	Р
Site pre start meeting (Compulsory) Group/work team OH&S discussions				P	L P	Р	P P	Р	Р
Liaise with Local Authorities / Emergency / Electrical / Water/				P	L	Р	P	Р	Р
Safety				•	_		•		
Safety Management Plan Requirements									
Prepare, monitor and update Safety Management Plan			P	L	Р	Р	Р		
Prepare, monitor and update Project Risk Assessment			P	P	L	P	P		
Ensure each Management Plan reflects and supports the current Project and Teams Needs			P	L	P	P	P		
Completion of reports in support of Objectives and Targets (Onsite data entry) Ensure the Project team are aware and understand Company Objectives and Targets			P P	P L	L P	P P	P P	Р	Р
Identification of any client / contractual Project Objectives and Targets			P	L	P	r	Р	P	P
Accountable for all Safety matters across the state	L		P	P	•				
Ensure the Project SMP is complied with (entire team)	Р	Р	Р	L	Р	Р	Р	Р	Р
Identify Legislative and Regulatory requirements relevant to Project operations.			Р	P	L				
Review Legislative and Regulatory requirements relevant to Project operations.			P	P	L				
Ensure all relevant contractor documentation is forwarded for work permit approval per Project Risk Assessment				Р	L		Р		
Review and ensure all Safe Work Method Statements reflect Risks identified and appropriate controls, ensure relevant legislation / regulations are acknowledged			Р	Р	L				
Ensure any training completed at project level is documented and relevant forms completed and forwarded to HR				L	P	Р	Р	Р	Р
Identification of any skill gaps at project level, arrangement of training ID and ensuring training is completed				L	P	P	P	P	P
Conduct Site Specific Inductions					L				
Maintenance of all Induction (including Visitor) Records and Registers					L				
Ensure all workers performing work on site complete site induction				Р	L				
Conduct Visitor Inductions Sock and review Plant Rick Accessments (Hindmarch or subsententer accessments)					L				
Seek and review Plant Risk Assessments (Hindmarsh or subcontractor assessments) Complete Weekly SQE Report				Р	L				
Ensure registers for plant, electrical, equipment, maintenance associated with Hindmarsh equipment are current.				-	L				
Maintain the Hindmarsh Plant Register and associated Plant Risk Assessments and Service / Check logs					L				
Perform periodic spot checks on contractors to ensure Plant and Equipment records, including risk assessments, are current and					L				
adequate									
Review Safety Management Plan and associated documents / sub plans / risk profiles			P	L	P				\sqcup
Identification and management of any Health Surveillance Requirements			P	L	Р				+
Completion of Federal Safety Reports Completion of Monthly Internal Project Report			P P	L	Р	Р	Р	Р	Р
Reporting of Incidents (entire team)	Р	Р	P	L	•		•		-
Completion of Incident Reports			P	L	Р	Р	Р	Р	Р
Action Incident Investigation			P	L	Р				
Ensure Regulatory Notification where required in the event of notifiable Incident			P	L	Р				
Other Safety Requirements			_		-				
Prepare, monitor and update Emergency Management Plan		l	Р	L	Р	I	l		

							Ф		
		ager	Jer	(PM)		rator	or / Site	ker 1	ker 2
	ger	Construction Manage	State SQE Manage	Project Manager (PM)	- Site Manager (SM)	- Contract Administrator (CA)	Project Coordinator / upervisor	Construction Worker 1	Construction Worker 2
Task	State Manager	tructio	SOE	ct Mar	Manag	ract Ac	ict Coc isor	tructio	tructio
	- State	- Cons	- State	- Proje	- Site	- Cont (CA)	- Proje Superv	- Cons	- Cons
Review and update Hazardous Substance Register & MSDS & Risks Assessments				Р	L				
Manage and monitor to site and subcontractor OHSE Requirements Evaluate OH&S performance of subcontractors				P	L	Р	P		\vdash
Attend Sub contractor tool box meetings randomly					L		•		
Initiate and coordinate OH&S awareness activities or presentations			P	L	P				
Consult on and resolve OH&S issues Administer first aid to injured persons			Р	L	P L				
Assist with return to work and rehabilitation processes			L	Р	P				
Emergency Management Program monitor and undata Project Emergency Management Plan			Р		-	P			
Prepare, monitor and update Project Emergency Management Plan Nominate Chief Emergency Warden CEW (confirming competency)			Р	L	P P	Р	Р		
Nominate First Aiders (ensure adequate number of personnel per workers)				L	Р				
Ensure Dangerous / Hazardous goods or substances are stored as per MSDS Ensure MSDS records are maintained and available				P	L				
Ensure Hazard / Substance Register is up to date				P	L				
Document any client / contractual emergency requirements within the EMMP				L	Р				
Display Rehabilitation / Employee Assistance Flow Chart in Site Sheds				P	L				
Display Incident Reporting Flow Charts in Site Sheds Ensure statutory reporting requirements are understood and documented within the EMMP				P L	L P			1	
Record First Aid, Medical, Lost Time Injury Treatments - Via Monthly SQE Report				L	Р				
Emergency Personnel will have training booked to meet requirements where required or where unforeseen training requirements				L	P	Р			<u> </u>
Emergency and First Aid Equipment will be determined and placed as per CEW assessment Display EMMP Appendices within site sheds				L	P P				\vdash
Track and records number of workers on site				L	Р				
Induct all workers into the EMMP and its requirements				L	Р				
Discuss / invite / forward emergency plans to local authorities for input / feedback / approval Coordinate Emergency Drills				L P	P L	-		-	
Document Emergency Drills and Findings associated with Emergency Equipment Tests, Exit signage, paths of travel and alarm				P	L				
Ensure all emergency documents / records are maintained as per the EMMP				Р	L				
Traffic Management Prepare, monitor and update Project Traffic Management Plan				L	Р				
Overall Accountability of TTMP including reporting to MCO & Client Representative				L	P				
Responsible for ensuring compliance with TTMP (all employees)	Р	P	Р	L	P	Р	P	P	P
Inclusion of Traffic Management requirements in induction Ensure persons engaged in TTMP work are competent and adequately trained					L				
Identify and maintain TTMP Docs / Records as per project requirements					L				
Regularly monitors physical controls are maintained as per TTMP Drawing / Design					L				
Ensure performance of TTMP is reviewed, with suitable corrections where necessary Design of Temporary Road Layout / Signage and other requirements (maybe outsourced)					L				
Maintenance of TTMP Signs					L			P	Р
Removal / Movement of TTMP Signage (maybe outsourced)					L				
Communication of changes in TTMP to relevant parties are effective and accurate Ensure all staff and subcontractors are aware of implementation & importance of TTMP					L				<u> </u>
Advise suppliers of TTMP requirements when supplier delivering to site					L				
Manage material handling & delivery requirements Quality Assurance					L				
Prepare, monitor and update Project Quality Plan				L	Р	Р	Р		
Obtain, read and understand Quality Management Plan				L	Р	Р	Р		
Document any QA related objectives and Targets Develop monitoring system for Project Quality Objectives and Targets				L	P	P	P		<u> </u>
Develop monitoring system for Project Quality Objectives and Targets Confirm QA Role and Resource allocation is adequate to support quality requirements				L	P P	P P	Р		
Identify and Schedule any additional QA Training Requirements				L		Р	Р		
Identify and document any quality High Risks / Opportunities Confirm QA Document and Record Management Requirements				L	P P	P P	P P		<u> </u>
Understand compliance requirements, auditing and inspections				L	P	P	L		
Determine Quality Reporting Requirements				L	Р	Р	L		
Provide a weekly summary status of RFI's / Shop drawings prior to project team meetings flagging critical items Develop and Document Communication Workflows				L	Р	P P			
Document Control				L		7			
Architectural							Р		
Structural & Services Setup Aconex - user access, workflows, mail types, document management				Р		Р	L L	-	-
Establish Requestion for Information Workflow (aconex or flowchart)				P		P	P		
Issue Request For Information				Р	Р	Р	Р		
Establish Manage and Update Request for Information Register Consolidate RFI responses (& issue internally) including confirmation whether time or cost implication - Coordinated via Aconex				P	Р	P P	P P		-
Establish Engineer / Arch / Client Instruction workflow (aconex or flowchart)				P	P	P	P		
Establish Hindmarsh Site Instruction requirements / workflow (aconex or flowchart)				Р	Р	Р	Р		
Consolidate Instruction responses (& issue internally) including completion of Design Change Authority Form as appropriate. Issue Site Instructions (SI)				L P	P P	P L	P P		-
Establish Manage and Update Site Instruction Register				P		P	P		
Coordinate project documentation via Aconex (Drawings / Specifications)				P		Р	Р		
Mark (cloud) hard copy 'For Construction Drawings' with Site / Client Instructions or RFI Monitor shop drawings and ensure timely submission and approval				P P	P P	P P	P P		
Establish Prototype and Sample Register - Manage Submissions & approvals				P	P	P	P		
		i —	1	P	P	P	P		

		_				L.	Site		5
	_	Construction Manager	nager	ler (PM)	(SM)	- Contract Administrator CA)	nator /	Construction Worker 1	Construction Worker 2
Task	anageı	ction N	QE Ma	Manag	nager (t Admi	Coordi	ction V	ction V
r den	State Manage	Sonstru	State SQE Manage	Project	Site Manager (SM)	Contrac A)	Project Coordinator / upervisor	Constru	Sonstru
Action and or Close out Client / Hindmarsh Site Instructions	,)-	,	P	P	P	P P	,)-
Develop and document Project QA Strategy				L	Р	Р	Р		
Determine and document Definable Features of Work				L	Р	Р	Р		
Review Project Documentation (Specifications, drawings) and complete QAC Part 1				Р	Р	L	Р		
Review Subcontractor QA Documentation using related QAC Part 2				P	Р	Р	L		
Develop and implement Hindmarsh ITPs as appropriate				P	Р	Р	L		
Develop and document Inspection (internal and external) processes				L	Р	Р	L		
Complete Notifications to Validating Consultants / Authorities				L	Р	Р			
Close out raised Inspection Actions				Р	Р	P	L		
Identify and Register Hindmarsh owned measuring equipment				P	Р	P	L		
Obtain measure equipment register and calibration records from subcontractors					Р		L		
Issue ARNs for Non-conforming product and services as required				P	Р	Р	P		
Issue ARNs for Corrective and Preventive Action requirements as required				P	Р	Р	P		
Monitor and ensure timely close out of ARNs				L	Р	P	P		
Complete Design Change Authority Form for all scope changes				L		Р	Р		
Register and track to closure each Design Change Authority (Aconex or Design Change Register)				P	Р	L	P		
Ensure Trade Procurement addresses QA requirements				L	Р	P	L		——
Complete inspection of goods received				P	L		P		<u> </u>
Seek completion of Client Satisfaction Survey (6 monthly)				L		Р			
Continually review and update construction program				L	Р	Р	Р		
Other QA Items									
Prepare, monitor and update commissioning Register				Р		P	L		
Manage the technical compliance of services and commissioning data				_	Р	P	L		——
Review service documentation for compliance and errors / anomalies				Р	Р	P	L		——
SA - Certification of Completion for Installation of Essential Safety Provisions Form 2 Development Act.				L		P	P		——
Environment and Sustainability			_		_				——
Prepare, monitor and update Project Environmental Plan			P	L	P				——
Establish and document environmental objectives and targets			P	L	P				——
Develop monitoring system for Project Env Objectives and Targets			P	P	L				
Confirm ENV Role and Resource allocation is adequate to support env requirements			P	L	P	_			
Identify and Schedule any additional ENV Training Requirements			P	L	Р	Р			
Review Legislative and Regulatory Register ensuring env requirements are identified Ensure understanding regarding legislative / regulatory access and monitoring			P	L	P	P	Р		
Prepare, monitor and update Environmental Risk Profile			P	L	P	Р	Р		
Review and make project specific required Environmental Impact Guides			P	L	P				
Update and monitor Environmental Controls as nominated with Risk Profile and Environmental Impact Guides			P	P	L				
Understand incident reporting requirements and expectations			P	-	P	Р			
Ensure Env Hazard Reporting requirements are understood and satisfactory to workers			P	P	L	Г		Р	Р
Determine and document community / stakeholder communication requirements			P	L		Р	Р	Г	F
Determine and document env communication strategy			P	-		P	P		
Understand compliance requirements and expectations			P	L	Р	P	P		
Inspect and monitor project specific env controls and processes. Document via Environmental and Sustainability Check sheet			P	P	L	P	P	Р	Р
Issues ARNs where required to address Env requirements			•	P	L		•	•	
Determine and document env reporting requirements	1			P	P	Р	ı		
Confirm and Document env document and record Management Requirements				P	L		P		
Document available env reports				P	P		L		
Document Project information and particulars				P		L			
Determine and document subcontractor management processes				L	Р	P			
Other Env Items									
Liase with community stakeholders as per environmental managment plan requiremnts			Р	Р	L				
							<u> </u>		
Practical Completion									
Additional Client Requirements				L	Р	Р			
Prepare Powering up schedule					L	P	Р		
Consolidate Defect Lists & Programme	<u> </u>			Р	P	P	P		
Action Defect Lists advise Subcontractors				P	P	P	P		
Generate & Close out internal defects lists	<u> </u>			P	Р	P	Р		
Manage the submission of maintenance manuals	1			P		P	L		
Ensure works are completed in accordance with the documentation and AS Standards	İ			L	Р	P	P		
Formal handover to client				L	Р	Р			
Ensure adequate retention held prior to final claims (incl defects / NCR's)				Р		L			
Client Caticination Survey			1		п	n			

LEGEND

L = Leadership / Complete Task (Accountable)

P = Participate in

Client Satisfaction Survey

M = Mandatory

 $\label{lem:complete} \mbox{ Direct responsibility to complete the activity drawing on the advice \& assistance provided by other}$ Provide technical and proactive assistance (physically help) to allow the person responsible to Company Mandatory Roles & Responsibility Requirement and cannot be deleted and may need

Р

Highlights the respective Task is not applicable to the Project

Highlights Position is yet to be resourced

Highlights task is not a Hindmarsh Responsibility / Task may be complete by client / other

Signed Agreement - as tracked via Aconex

- State Manager

- Construction Manager (CM)

UATEU	
DATED	

Task	- State Manager	- Construction Manager	- State SQE Manager	- Project Manager (PM)	- Site Manager (SM)	- Contract Administrator (CA)	- Project Coordinator / Site Supervisor	- Construction Worker 1	- Construction Worker 2
------	-----------------	------------------------	---------------------	------------------------	-----------------------------	----------------------------------	--	-------------------------	-------------------------

 Project Manager (PM 	- Pro	iect	Mana	ger	(PM
---	-------	------	------	-----	-----

- Site Manager (SM)
- Site Supervisor/QA
- Contracts Administrator (CA)
- State SQE Manager (SSM)
- Project Safety Advisor (PSA) Construction Worker (CW)
- Construction Worker (CW)

 UA1EU
 UA1EU
11011-11

APPENDIX D – PROJECT & ENVIRONMENTAL RISK ASSESSMENT

