1							PGS Project Risk Register (PRR)				
	PBS Project Risl	k Register		Word Co	olour Legend	Acronym	Responsible Positions	Hierarchy of Control	Control Sel	ections	
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	%Contro Enginee		
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	%Contro Enginee	ls < 8% ring	
			_		Input required by the site team	FM	Foreman	4. Isolation 6	,		
Workplace Location:	1 Ulonga Ave, Greenwich	1			Reference to PBS document	CA	Contracts Administrator	3. Engineering 1	BCheck form	ulas in L2-L7 if j lo ensure range i	
Issue Number:	Rev 4	1			NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration		correct	
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	trol t Level rol)	sible Statu	us Legal and other requirements
Air - Conditioning	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	C Possible	3 Medium	9	Pattom ladders or EVPPs are to be used in the first indure. Work tredles a minimum width of 450mm can be used. Step Ladders may only be used for minor works which bie less than 15 minutes to complete and 3 points of contact must be minimized. Delively drivers or works are are VTD to access the back of induced unsues. "There is a handhold by users in provided by back of the vehicle or, "A portable handhold users in provided by the orginal and." "The use of a portable loading buy platform would be the ideal contor measure. When one or more diverse is hown of a buy brender of the stepped hand, them any edges of a 3 points of contact when a submitted in the 1 but provided and, them my edges of a building balancies at least the "1 the role is a lapionable exervised/the fast born instand."	Trateled Parsonel required by operation of 50/0 Namess is be worn and connected plot to bucket being resided. Tetrates to be inspected daily being use and matchined in per manufacture specifications. Mobile scattide to be used, Any mobile scattide over 4m meeds to be erected by a ticketed scattideer.	eering SS/S	M Oper	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Air - Conditioning		4.5.1; 4.5.2;4.5.4	Fire/Explosion	D Unlikely	3 Medium	6	Not Works Permit to be in place. Area to be dear of combustitie materials. Correct PPE to be work. Flash back arrestors connected to all oxy sets.	225mm Grinder Permit to be in place 3. Eng	eering SS / SM	FM Oper	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Welding processes COP
Air - Conditioning	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	C Possible	4 Large	12	No one is to approach plant unless continnation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating. Mobile phones not be used when operating plan and equipment. Operator to be appropriately Trained / Traked.	Exclusion zone to be in place to prevent unsufficient entry to work area. Access ways to be redirected to ensure no personnel inside operating areas. Ourlagen of crane to be protected by jervey karts or similar to prevent context from other particivations. Degram and Operator to sign into Crane Management weight & for large panel IIIs in which conditions. Degram and Operator to sign into Crane Management & Lei & Dars. Specific Cognam ho there positive communication with equared to large the site of th	ation SS/SM	FM Oper	WHS Ac12011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Air - Conditioning		4.7.1;	Cuts and Lacerations	C Possible	2 Small	6	All guards to be filled to power tools. Wear gloves when working with sharp steel edges. Eye Protection to be worn when cutting metalwork.	225mm grinder permit to be issued when applicable 3. Erg	eering SS / SM	FM Oper	WHS Act 2011. WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Air - Conditioning		4.3.6	Plant Failure	D Unlikely	3 Medium	6	All duct lifters and portable type hoists must have a breaking system so that in the event of a hoisting were failure the load cannot fail. In addition, outriggers where fitted must be used. SVM, must be deenly marked & only propriety attachments are used and only in accordance with manufacturers instructions.	3. Eng	eering SS / S	M Oper	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Air - Conditioning		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	D Unlikely	4 Large	8	Authorised person only to be in direct workzone.	Tools to be on lanyards when working above 2m fall risk. Physical barriers to be in place as an exclusion zone and must take into consideration the arc, fall and bounce of materials and tools. Area to be burited off with signage to prevent unauthorised access.	ation SS / SM	FM Oper	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely sites COP, Work health and safely consultation, coordination and cooperation COP, PBS Safety Guide
All Trades		4.4.2	Electric Shock	B Likely	3 Medium	12	Electrical equipment to be tested and tagged by competent person minimum 3 monthly. RCD's to be tested by a qualified person monthly and trip times to be recorded and given to PRS. Lead stands or insulated hools must be used to elevate leads above head height.	3. Eng	eering SS/S	/ Oper	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely rossultation, coordination and cooperation COP, PBS Safety Guide; Managing electrical risks in the workplace
All Trades			Manual Handling Injury	C Possible	3 Medium	9	Ensure load is close to the chest and bend the knees to pick up the load. Lift with legs keeping back shagif; Bend he knees to lower he load then release the load to find position without one elonding the back. Control of the state of th	Use Mechanical Adds. Team Lifts to occur. 3. Eng	eering SS/S	/ Oper	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation; coordination and cooperation COP, PIS Safety Guide, Hazardous manual tasks COP.
Asbestos Removal	Carried out in an area that may have a contaminated atmosphere	4.10.1;4.10.3; 4.10.4;	Exposure to Hazardous Dust	A Almost Certain	3 Medium	15	Abbestos Register for relevant building to be requested from Citert. Abbestos Renoval Control Plan to be in place. Workers and Subcontractor must hold the correct class of licence for the type of abbestos destified to be encode (L. over (TIOL)). Health Morting to be done for all workers involved in the task prior to works commencing. Physical bairiers to be set up around abbestos removal area with signage. Correct PIE to be work. THE VIMMS to cultime methodology for controlling all abbestos dust and losee particles Hold Point - Clearance Certificate to be releved prior to any other works occurring.	Notify Regulator in writing at least 5 days before commencing activity if over the 10m2 or fitable. Air 6. Elim Monitoring to be in place.	nation SS / SM / F CA	//SE/ Oper	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PISS Stafety Guide, How to safety remove asbestos COP
Asbestos Removal	Carried out in an area that may have a contaminated atmosphere	4.10.1;4.10.3; 4.10.4;	PPE, Tools and Waste Contamination	B Likely	3 Medium	12	Waste to be sealed in a container and labelled in accordance with the Globally Harmonised System of Classification and labelling to indicate it contains ablestes. Waste must be brught to an Lonnord waste disposal facility which according to the second system element of correct disposal at facility (Le Tipping Dockets)	PPE and Tools must be sealed in containers / double bagged or appropriately decontaminated within the abbettos removal area.	ation SS / SM	FM Oper	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide Labelling of workplace hzardwork chemicalis COP, How to safety remove asbestos COP

1							PBS Project Risk Register (PRR)					
	PBS Project Risk	(Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
					Input required by the site team Reference to PBS	FM	Foreman	4. Isolation	67	-		
Workplace Location	: 1 Ulonga Ave, Greenwich				document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in add rows to ensur	e range is	
Issue Number	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	correct		
Issue Date	: 22/12/2020		Harard /	Likeliheed	Concorrigonoo	PE/SE Dick Deting	Project Engineer / Site Engineer	1. PPE	1 Hierarchy of	Responsible	Status	Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	LIKEIINOOd	Consequence	RISK Rating	Mandatory Control Measures	Site Specific Control Measures	Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Asbestos Removal	Risk of Person Falling more than 2m		Credible									
		4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	A Almost Certain	3 Medium	15	Platform ladders to be used or mobile scatfod(s).		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Asbestos Removal	Carried out in an area that may have a contaminated atmosphere	4.10.1;4.10.3; 4.10.4;	Unexpected Find	D Unlikely	3 Medium	6	PBS Unexpected Finds protocol to be followed. Contractor to include unexpected finds protocol in their HR SWMS.	Aubestos Register to be updated to include unexpected finding.	2. Administration	SS / SM / FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Concrete Coring	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	B Likely	4 Large	16	Platform ladders or EWP's are to be used in the first instance. Work treates a minimum width of 450mm can be used. Step Ladders may only be used for minor works which take less than 15 minutes to comprete and 2 plants of contain malt be matisfiend. Ladders to be steped bas the may edges of a building/bationies at least 3m or 1 i ratio if a full perimeter screen/scatted fue besteen.	Catch deck to be installed underneath area being cored.	3. Engineering	SS / SM / FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Concrete Coring		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	A Almost Certain	3 Medium	15	Concrete Coring Work Permit to be issued.Physical barriers to be in place as an exclusion zone and must take into consideration the arc, fall and bource of materials and tools undernash the area being cored. Area to be builted of with signaple to prevent usua/brinded access. Authorised person only to be in direct workcore.		4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safely Guide
Concrete Coring	Carried out in an area that may have a contaminated atmosphere	4.13.2	Dust Inhalation	A Almost Certain	2 Small	10	Internal Risk - P1/P2/P3 dust mask to be worn. External Risk - Constant Hosing down with water to be undertaken.	Power tools to have vaccum /water attachments	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely constitution, coordination and cooperation COP, PBS Safely Guide, Managing risks of hazardous chemicais in the workplace COP
Concrete Coring	Is carried out on or near energised electrical installations or services	4.4.1; 4.4.8	Contact with Live Existing Services	B Likely	4 Large	16	Concrete Coring Work Permit to be issued. If services located in direct coring zone then additional Energisation/Isolation Permit to be issued and completed. Visual inspection to be conducted for understab services.		3. Engineering	SS / SM / FM / SE / CA	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety counsultation, coordination and cooperation COP, PBS Safety Cuide, Managing electrical risk in the workplace COP
Concrete Placement		4.10.2; 4.13.1; 4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance S	C Possible	2 Small	6	Designated washout / recycling areas for concrete and concrete equipment with regular monitoring.		4. Isolation	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety counsultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Concrete Placement		4.9.1; 4.9.2; 4.9.3	Failure of Structure	C Possible	5 Very Large	15	Structural Engineer Certification to be received prior to pour for formwork deck. Notd Point - PBS pre pour checklist to be conducted prior to pour of deck commences. Level underneath formwork deck being poured to be closed off and only restricted access allowed ().e Formwork spotter)	Scuring requirements, load points, bracing, and fixing details must be verified to be in accordance with an approved design and include suitable structural fixing that accord to vinid load considerations added on locality. All safely priss be instituted in pipe coupling, callering of concrete line to be done by after blowing back into hopper and using a concrete tray, blowing into a secure and engineered device after blowing back into hopper and using a concrete tray, blowing into a secure and engineered device and be trib support of into a wabe bin in with plastic which has an engineered II. ALD PORT: No concrete blow out on formark deck to occur uteries in an area marked and propped for part loading by the formarket engineer.	, 4. Isolation	SS/SM/FM/SE/ CA	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Safe Design of Structures COP
Concrete Placement		4.10.2	Exposure to Hazardous Material	C Possible	2 Small	6	Correct PPE to be worn. SDS to be communicated to all workers involved in the task via TBT, training register or SVMS. Hazardous Moteriate to be stored in designated storage area immediately after use.	Hazardous Materials and Dangerous Goods sub plan to be in place. Dust mask to be worn when cuttingigrindingidniling into concrete. Vacuum attachment and <i>i</i> or water to be used to miligate dust where possible.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety counsultator, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Concrete Placement		4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	B Likely	4 Large	16	Fall Protection must be in place and all reo bars are capped prior to commencing.	Suitable work platforms must be in place for pouring at height.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Concrete Placement		4.12	Fatigue	C Possible	2 Small	6	Rolate work crews. Monitor number of workers and hours worked. Contractors to provide ways hone for workers that may be too fadjuaed to drive home. Sile to have designated rest areas. Min 10hr break between shifts.		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP. Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide

1			I				PBS Project Risk Register (PRR)					
	PBS Project Risk	Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		PBS
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
					Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location:	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in add rows to ensur		
Issue Number:	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	correct		
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Concrete Placement			Cradible									
		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	B Likely	3 Medium	12	A system must be in place to alert workers of changed boom position.Concreters not to collect any loads by crane. Dogman to land loads Le helecopters etc. Authorised person only to be in direct workzone.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Concrete Placement												WHS Act 2011, WHS Regulations 2017,
		4.12.1; 4.12.2	Working in Cold, Inclement or Windy Weather	C Possible	2 Small	6	Heatd amenilies to be provided. Suitable Access I Egress to be provided to work areas. Concrete Paicing Boom not work outside the manufacture's recommodiance regards extern weather (wind speed) If lightning is present in the near sky or immediate sky above then concrete booms must be lowered and persons to remain under cover in lunch sheds until the weather passes.	Inspection to be conducted prior to gates of alle open by PBS Site Manager/ EHS Committee to assess all access routes. Any unsuitable work areas are to barricaded off with physical barrier until deemed safe to enter.	4. Isolation	SS / SM / HSR	Open	Construction Work COP, How to manage work health and safety crisks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP
Concrete Placement												WHS Act 2011, WHS Regulations 2017,
		4.12.1; 4.12.2	Working in High Temperatures - Heat Stress/Heat Exhaustion	C Possible	2 Small	6	Sufficient quantifies of cool drinking water is readily available close to work areas. Regularly rotate workers who perform more stremuous activities with less demainding tasks. Take regular work breaks in cooler areas such as air conditioned sheds.	Shade Covers to be installed. Workers to wear broad brimmed hats and sunglasses for UV protection.	3. Engineering	SS / SM / HSR	Open	Construction Work COP, How to manage work health and safety crisks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP
	Carried out in an area that may have a contaminated atmosphere											WHS Act 2011, WHS Regulations 2017,
		4.13.2	Dust Inhalation	C Possible	2 Small	6	Internal Risk - P1(F2)P3 dust mask to be worn. External Risk - Constant Hosing down with water to be undertaken.	Power tools to have vacoum attachments	3. Engineering	SS/SM	Open	Construction Work COP, How to manage work health and safety cased of the construction health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.6; 4.8.2	Plant Over-Turning	C Possible	4 Large	12	Set up in an area that is approved by PBS Site Manager. Plant is not to set up or traverse within the zone of influence of a service trench' excavation or on a service trench. Outliggers must be set up on stable ground. Leenced operators to operate boomhadellite pumps only.	Penetration covers to be physically secured with signage and be of sufficient strength to support likely plant or explormed in the area. If stratube penetration, taud 3 point limits to be displayed. Compaction that is required prior to set up of outliggers on disturbed koll. Outliggers of crace to be protected by jersey kurbs or similar to prevent contact from other plantivehicles.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS safety Guide, Managing the risks of plant in the workplace COP.
	Is carried out on or near energised electrical installations or services	4.4.1;4.4.7	Contact with Overhead Power Lines	B Likely	4 Large	16	No unloading / loading of trucks to happen in the vicinity of these powerlines. All plant to remain at a minimum approach distances to powerlines. Up to 132,000 volts - Sm. 132,000 - 330,000 volts - Sm. Above 330,000 = Sm.	Tiger Tails to be installed by elevered authority as a shault reminder. Install heightfocation indicates. Comparent Speaker to here positive communication with plant (UKF radios) and observe plant movements when design envirose has the potential to reach closer timo. In more to poser times health signage as visual reminder. Line pump with static time to be utilised instead of boom pump.	5. Substitution	SS / SM	Open	WHS Act 2011. WHS Regulations 2017. Construction Work COP. How to manage work health and safety risks COP. Work health and safety consultation, coordination and cooperation COP. PBS Safety Guide, Demotition Work COP. Managing the risks of plant in the workplace COP. Managing electrical risks in the workplace COP
Concrete Pump		4.3.6	Plant Failure	C Possible	4 Large	12	Ensure safety pins are installed to line connectors. Monthly pipe thickness tests to be conducted and checked to ensure minimum density allowance is not exceeded. Servicing and maintenance to be done as per manufacturer's specifications		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
1	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	B Likely	4 Large	16	Linesman to have positive communication with pump operator when positioning the line. Pump operator to have full sight of where concrete boom is being positioned.	Line Pump stands to be used on deck and for static lines on the ground.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide,
Concrete Pump			Environmental		1							WHS Act 2011, WHS Regulations 2017, Construction Work COP. How to manage
		4.10.2	Environmental Contamination from Spill of Hazardous Chemicals/Substance S	C Possible	2 Small	6	Designated washout / recycling areas for concrete and concrete equipment with regular monitoring. Waste water must be controlled from flowing across walkwaye, work areas and outside site boundaries.		4. Isolation	SS/SM	Open	work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Concrete Pump		4.12.1; 4.12.2	Working in Cold, Inclement or Windy Weather	C Possible	1 Very Small	3	Heated amenities to be provided. Suitable Access / Egress to be provided to work areas. Concrete Placing Boon not to work outside the manufacturer's recommendations regards externe weather (wind speed) Tightings present in the near any or immediate sky bave then concrete booms must be lowered and persons to remain under cover in lunch sheds until the weather passes.	Inspection to be conducted prior to gates of alte open by PBS Sile Manager EHS Committee to assess all access nodes. Any unsuitable work areas are to barricaded off with physical barrier until deemed safe to enter.	4. Isolation	SS / SM / HSR	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP
Concrete Pump		4.12.1; 4.12.2	Working in High Temperatures - Heat Stress/Heat Exhaustion	C Possible	1 Very Small	3	Sufficient quantities of cool drinking water is readily available close to work areas. Regularly rotate workers who perform more attenuous activities with texa demandring tasks. Take regular work breaks in cooler areas such as ar conditioned studis.	Shade Covers to be installed. Workers to wear broad brimmed hats and sunglasses for UV protection.	3. Engineering	SS / SM / HSR	Open	WHS Act 2011. WHS Regulations 2017. Construction Work COP, How to manage work health and safely ruise COP. Work health and safely consultation, coordination and cooperation COP. PBS Safely Guide, Managing the work environment and facilities COP

1							PES Project Risk Register (PRR)					
	PBS Project Risk	k Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		
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					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
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Workplace Location	1 Ulonga Ave, Greenwich	I.			Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	ßCheck formulas in	L2-L7 if you	
Issue Number	Rev 4	l l			NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	add rows to ensur correct	e range is	
Issue Date	22/12/2020	I				PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard /	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control	Responsible	Status	Legal and other requirements
			(Worst						(Highest Level Control)			requirements
Conditions of Consent			EHS Issues identified in DA not being addressed	B Likely	3 Medium	12	Project Manager to ensure all DA conditions are managed.		2. Administration	PM / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Confined Space	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	B Likely	4 Large	16	Suitable access must be provided into confined space which does not expose the personnel to a risk of fail.	3 points of contact to be maintained when using ladder. Physical barrier to be installed 2m back from the edge of excavation. Shoring box to be used to provide access and control the risk of fall with handnails and midrails.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Confined spaces COP, Managing the risk of falls at the workplace COP
Confined Space	Is carried out in or near a confined space	4.19.1; 4.19.2	Engulfment / Asphixiation	B Likely	4 Large	16	Confined Space Entry Permit to be issued. Personnel entering confined space & observer both to had evidence of confined space training. Positive communication to be mainlined at all times (6 uHP) radios). Burn jest be be loadbald on detecto to confirm allotinicon and vorking order. The confined space then needs to be tested prior to any persons relining the space. Gas Detectors to be conducided whilst worker inside confined space. Thereary Positive to accument of hRS VMAS for the retireral of hyperd person.	Breathing appartus (P3) to be worn. No hot works to be conducted within the space.	3. Engineering	SS/SM/FM	Open	WHS Acl 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks CoP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Jude, Confined spaces COP
Covid - 19		4.11.4	Spread of Infection - Workers	D Unlikely	4 Large	8	An status province hand satisfies also enables and subject supersists all manufactor in minimum. Shaking of hands should not occur. Posters to be added anound sites to demonstrate proper hand waining behniques and topic the space in messages. All works are required to band the hands often use hand samilies as needed, cover their modul when coupling of meeting both rule of the hands to do so, such do clinical with others and seek medical satisfactor. If their guard Works to maintain social distances and seek medical satisfactor. If their guard Works to maintain social distances in their status of the site of the satisfactor in the site of the maintain social distances in their status of the site of the maintain social distances in their site of the maintain social distances of the site of the maintain social distances of maintain social distances of maint		4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Government Guidelines
Covid - 19		4.11.4	Spread of Infection - Cleaning	D Unlikely	4 Large	8	Removal of germs such as the virus that causes COVID-19 requires thorough deaving followed by disinfection. Site Offices and Amentiles are to be deamed thoroughly daily by professional deamers.		4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Government Guidelines
Crane - lifted work boxes		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	A Almost Certain	4 Large	20	All work boxes must be design registered with Relevant Authority. Workbox must be securely attached to crane hosk. Directions to crane operator should only be provided from work box by licensed dogger / rigger. Authorised person only to be in direct workzone.	1st Ald crare box should be clearly identified with First Ald signage displayed & only used to refrieve injured persons. 1st Aid crare box may have outward opening doors but here doors must be self cloaing with automatic latches.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP. Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Crane - lifted work boxes	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	B Likely	4 Large	16	Full body fail - arred harnesses to be worn at all times (except when using 1st aid crane bod) & be attached to work hox andror points or to crare main aling ring above heads of workers. Emergency referieval arrangements to be in place before lift commences.	1st Aid orane box may have outward opening doors but these doors must be self - closing with automatic telthes.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Crane - lifted work boxes		4.3.6	Plant Failure	C Possible	4 Large	12	All work boxes must be design registered with Relevant Authority. Workbox must be securely attached to crane hook. Emergency retrieval arrangements to be in place before lift commences		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Demolition	Involves, or is likely to involve, the disturbance of asbestos	4.13.2	Dust Inhalation	C Possible	3 Medium	9	Corned PPE such as dust masks to be seen by workers during the removal process. All potential ACM and Hazardous Material to be removed and clearance certificate received from licenced assessor prior to demotilion.	Abbestice Register to be requested off of the client. Compostent person to inspect residential premises prior to densition. Licenced person to conduct destructive testing and provide results prior to demotion.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Demolition	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	C Possible	4 Large	12	Site specific controls to be implemented in HR SWMS.	Catch scattoid to be erected. Minimum height of 900mm of fail protection from outer wall to remain for workers on suspended slab. Platform ladder / scattoid or EWP to be used.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and astly risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Demolition	Demoliton of an element of a structure that is load- bearing or otherwise realed to the physical integrity of the structure	4.9	Uncontrolled Collapse of Structure	C Possible	3 Medium	9	Demolition Plan to be developed cultining sequence of demolition. Where applicable, any structural engineers sign-dit needs to be obtained. Physical Barriers to be in place as an enclusion zone to prevert unauthorised access. "Demolition incorporais Singue b to in installed. Only loenced contractor to perform works.	If structure is over 6m in height then the contractor is to notify Regulator in writing at least 5 days before commencing works.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Demolition COP

1			ĺ				POS Project Risk Register (PRR)					
	PBS Project Risk	Register		Word Co	olour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
					Input required by the site team	FM	Foreman	4. Isolation	67	-		
Workplace Location	: 1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in add rows to ensure		
Issue Number	: Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	correct		
Issue Date						PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Demolition		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Crodible	C Possible	3 Medium	9	Denotition Plan to be developed. Physical Barriers to be in place as an exclusion zone to prevent unauthorised access and must take the arc, bounce and deflection of materials into consideration. Thermation in progress ¹ signaps to be installed. Authorised person only to be in direct worksone. All reports - Synthesis (ingue are to be checked) a combined of construction are to be reports - Synthesis (ingue are to be checked) a combined of construction are to be steaded very and documented on a register. The SYNL of thing explorement is not be exceeded. Weight of basis be the be predetermined by a completer greans. Use it is developed on a finite of the predetermined by a completer greans on an analysis. Los is lithed within the view of the operator at littings. Standard (thing procedure in male do counciled within HS SYNLS. Authorised person may be in the size.	Tools to be on lanyards when working above 2m fail risk. B Class Hoarding installation for public protection. Scattod to be installed by a licenced scattblder.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP. Work and cooperation COC WES caldled Guide, Demolition Work COP,
Demolition	Is carried out on or near pressurised gas distribution mains or piping; is carried out on or near chemical, fuel or refrigrant lines; is carried out on or near energised electrical installations or services	4.4.1; 4.4.8	Contact with Live Existing Services	A Almost Certain	4 Large	20	PBS Isolation/Energisation Permit to be used. An Excavition Permit may also be needed. Any live services that remain make PBS tence into above grade are to be identified using obtait barricading and alignings. DBYD to be reviewed by PBS into the provide the monitorial Contractor: In ground services are to excavity marked.	As builts to be received from the client to confirm existing services. Evidence and As Built drawings from client to identify any live and disconnected services within the project boundaries. Service Locator to be engaged to conduct survey of site and provide to PBS.	6. Elimination	SS / SM	Open	WHS Acl 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing electrical risk in the workplace COP, Demolition Work COP
Demolition	Is carried out on or near energised electrical installations or services	4.4.1;4.4.7	Contact with Overhead Power Lines	B Likely	4 Large	16	No unteading / loading of trucks to happen in the vicinity of flases powerflows. All plant to remain at a minimum approach distances to powerflew. Up to 112/200 with = 3m. 112/200 - 330,000 vicits = 6m. Addres 330,000 = 6m.	Tiger Tallis to be installed by released submitly as a value remoter. Install Registricution indicators Competent Souther to have positive communication with plant (UFF radios) and doesn't plant movements when design envelope has the potential to each closer than 3 meters to power lines. Install additional/bettern controls will Tiger Talls are installed installed. TSI band closed and the contractives on complexency. Non-conductive height waverenes burring to be installed. Colcur of burringed periodically to increase avareress and value hight Second time (Optus) alls below power lines and non-conductive height safety burring below (Dpta line. "Denthead Line") and prover lines and non-conductive height safety burring below (Dpta line Contend Line") and provide the over many closer of the operating distance spatials."	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, Hore to manage work health and adely risks COP. Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Demoillion Work COP, Managing the risks of plant in the workplace COP. Managing con- electrical risks in the workplace COP.
Demolition		4.13.1;4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance S	C Possible	2 Small	6	Contractor to provide, and have readly invaliable ascess to a cplit bit which is appropriately sized for the skick drait when refusiling or if damage was to cour to a price of plant and exponent. Workers must be trained in the use of split kits and the SDS's for chemicablukatiances that they are using on this project.		2. Administration	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety insike COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous characticus the the workplace COP
Demolition		4.13.2	Dust Inhalation	C Possible	3 Medium	9	Internal Risk - P1/P2/P3 duat mask to be worn. External Risk - Constant Hosing down with water to be undertaken.		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety insike COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Demolition		4.7.1;	Cuts and Lacerations	C Possible	1 Very Small	3	All guards to be fitted to power tools. Gloves to be worn at all times when handling materials.	225mm grinder permit to be issued when applicable	3. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Demolition			Works affect neighbouring structures	C Possible	2 Small	6	Dilapidation survey to be undertaken by consultant. Prior to works starting	Vibration Monitoring to be in place. Letter box drop to occur in neighbouring properties that might be affected by works. Shoring that has been designed by an engineer to be in place for neighbouring retaining walls and properties prior to demolition of existing boundary walls.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Demolition			Noise	D Unlikely	3 Medium	6	Hearing Protection to be worn.	Mutters to be used on plant. vibration monitoring required	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Demolition	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	B Likely	4 Large	16	When using an excavular - Spotter to have positive communication with operator (via hand signals or UHF radio) at all times. No one is allowed in the swing zone of the piece of part. No one is to approach product unless the buddhim has been lowed and confination has been received by the operator that is dit approach. At plant to have fashing beacons operating, Mobile phones not be used when peering plant and explores. They allowed up with hit required by the received by their this cannot be accomplied and a semi automatic or other quick hith is proposed, a written exemption is required from EVS Manager.	Exclusion zone to be in place to prevent unauthorised entry to work area.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Design Analysis Review			Incorrect or incomplete design analysis and hazard identification	C Possible	4 Large	12	Review all consultant Design Safety Reports using PES Design Safety Report Review Document. Analysis to be conducted in accordance with EHS Plan and Quality Sub Plan.		3. Engineering	SS / PM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, Safe Design of Structures COP; PBS Safety Guide
Electrical	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	C Possible	4 Large	12	Platform ladders or EVIP's are to be used in the first instance. Work treatises a minimum width of 450mm can be used. Step Ladders many only be used for minor works which take less than 15 minufes to complete and 2 plants of contain multi- primarian California plants or works are a Vort 16 access the "There is a handhard a plants incorporated or to the back of the vehicle or, "A portable handhard plants in plants and plants and plants and the project and, "The use of a portable loading bay plants movoide by the origical mad." When one or more of these controls are implemented, works may use the access ladder and maintain 3 points of contact when ascending or descending. Ladders to be stepped back from any edges of a budding@abccinest leads." In the step of contact when ascending or descending. Ladders is be stepped back from any edges of a budding@abccinest leads."	Competent person to only use EWP below 11m. Ticketed Personnel required for operation of EWP over 11m. Harmess to be worn and connected to boorn EWP type prior to bucket being natied. Harmess to be impeched daily before use and matritated as per manufacture perclinations. Noble activities activities to used. Any mobile scaffold over 4m needs to be erected by a ticketed scaffolder.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work Health and safety consultation, coordination and cooperation COP, PBS Safety Guide

1							PBS Project Risk Register (PRR)				
	PBS Project Risl	k Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control	Control Selectio	ns	
					Permits	SS	Sub-Contractor Supervisor	6. Elimination 2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution 7	%Controls < Engineering	8%	
			_		Input required by the site team	FM	Foreman	4. Isolation 67	_		
Workplace Location:	1 Ulonga Ave, Greenwich	I	_		Reference to PBS document	CA	Contracts Administrator	3. Engineering 130	BCheck formulas add rows to en		u
Issue Number:	Rev 4	•			NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration 18	corre		
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE 1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures Hierarchy Contro (Highest L	of Responsibl	e Statu	s Legal and other requirements
Electrical	Is carried out on or near energised electrical installations or services	4.4.1; 4.4.2;4.4.3;4.4.4	Electrocution	A Almost Certain	4 Large	20	Issuil RCD protected temporary hardrá al exch level in nominate location heigh tand wired with dem bable (is no siglet / wander boards allowed). Temporary boards mut be physically excured to prevent overturn of baard and forst covers mut be locateb. Temporary boards mut have located covers over torical Isselts and RCDs associated with looging circuits agent from the main which location and the model of the reading accessible in the veried of an emergency. Temp Sarofs mut have logated boards and the reading accessible in the veried of an emergency. Temp Sarofs mut have logated boards and the reading accessible in the veried of an emergency. Temp Sarofs mut have logated boards and the reading accessible in the veried of an emergency. Temp Sarofs mut have logated physically logate every 3m, where eating is accessible. Complete the Person must eatry out electrical temporary electricity provided to social (general purpose) outliers mut are protected by a Residual Al dectrical across the Temporary Baard al construction wing installations mut have a completed apprendices and trade assistant must vork under the supervision of a licenced electrician al al times. Al dectrical across the exclusion must verify theil licence before they commerce electricial with a licenced electrician in act verify and licence before they commerce electricial with a licenced electrician is each electrician must verify theil licence before they commerce electricial with a licenced electrician is a low to read the supervision of a licenced electrician al al times, licenced electrician is a target of potent temp damage and electric thos (in the newer of they they energisation), RCD Trig Times to be neceder emerginger. HR SWMS to include emergency procedure.	4. bolast	n SS/SM/FM	Open	WHS Act 211, WHS Regulations 2017, Ontoholdon Well COD, Navis Insuega work health and addry risks COP. Work health and stately consultation, coordination and cooperation COP, PBS Stately Guide, Managing electrical risks in the workplace COP
Electrical		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	B Likely	3 Medium	12	Authorised person only to be in direct workzone. Authorised person only to be in direct workzone.	Physical barriers to be in place as an exclusion zone and must take into consideration the arc. fall and bounce of materials and tools. Area to be builted off with signage to prevent unauthorised access.	n SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	C Possible	4 Large	12	No one is to approach plant unless confirmation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating, Mobile phones not be used when operating plant and equipment. Operator to be appropriately Trained / Tricketd.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure opersonnel inside operating areas. Outliggers of zame to be produced by jersey kuts or similar to prevent oricalist from dire planet/whiches. User Egu Lines when appropriate loorthol light weight & for large panel lifts in windy conditions. Dogman and Operator to sign no Crate Management 4. solate Sub Plans. Spectrolognam to here positive communication with operative (hai hang tights, whiste or UHF radio) at it times. Seat bells to be worn at all times where titled. Refer to mobile crare operations activity and accession adviny in the TRR.	n SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Electrical		4.7.1;	Cuts and Lacerations	C Possible	2 Small	6	All guards to be fitted to power tools. All PPE requirements shall be assessed in the contractors HR SWMS	225mm grinder parmit to be issued when applicable 3. Enginee	ing SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Electrical		4.5.1; 4.5.2;4.5.4	Fire/Explosion	B Likely	3 Medium	12	Not Works Permit to be in place. Or isolation / Energisation Permit to be in place. Area to be clear of combustible materials. Correct PPE to be worn.	2. 225mm Grinder Permit to be in place Administra	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Welding processes COP
Electrical		4.10.2	Exposure to Hazardous Material	C Possible	2 Small	6	Correct PPE to be worn. SDS to be communicated to all workers involved in the task via TBT, training register of SWMS. Hazardous Materials to be stored in designated storage area immediately after use.	Hazardous Materials and Dangerous Goods sub plan to be in place. 4. Isolate	n SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Worker Welfare		3.1.2; 3.2	Mental health and hygiene risks	D Unlikely	2 Small	4	Toilets which have hot and cold water, lunch room including minimum boiling water, cold water and microwave and fridge, Change room. All Solities deared on a regular basis. No materials or tools to be stored in these builties. Water Bucklets to be located minium every second level on site.	Two closet pans and trough for male billet at a minimum. One closet pan for female at a minimum. Both toilets to include shower facilities and tockable door so as to double up as a change room.	ing PM / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP, First aid in the workplace COP
Emergency Planning		4.5.10; 3.2.6	Emergency Risk Assessment	A Almost Certain	5 Very Large	21+	Fire edinguisher to be located at every edi point and/or every 500 square metres. Nanse Call point to be located every 500 square metres. Spil Kits to be located at al designated returbling areas and hazardous chemicals / dangerous goods storage areas. Contracton are to provide their own spill kit relevant for their own, reluelling or other, activities.	PBS will have a multipurpose 20 fite split kit available as a back up. 1 fire extinguisher (to suit class a,b,c,& dectricial fire) on each storey adjacent to each exit or temporary stariwayst at lines. After building reaches: Exit effective highlyr, texturial for hydrachs & the hore rester matte be careaticnal every storey (except the 2 uppermoti floors). Emergency Execution May to be installed on every lived 'at 3. Engine each exit point. Definitional is available in the reliement rector acts to be project at the too standard module kits required (one large, one runne). Stretcher required for alle. Minmum 2 first ades required for site with provide first at draining. Scalidid Stretcher text required to respect or generation of the stand raining.	ing SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work
Environmental Assessment		4.13.1;4.13.3	Excessive exposure to surrounding noise, dust, vibration, radiation	C Possible	2 Small	6		Vibration and Dust monitoring processes are deemed required for this project. Monitoring processes are to conducted by suitably competent consultants (eg occupational hygenist) in accordance with 3. Engine	ing SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP
Environmental Assessment		4.13.1;4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance s / Water	B Likely	4 Large	16	Install approved controls prior to commencing excavation works. Contractors to ensure all erosion & sediment controls are fully re-installed before lexing alle. Monitor external site boundaries and environmental controls using "EHS Site Assessment Checklar".	Sill ferice with coir logs in front of back boundary and additional all ferice and coir logs 3m in front. Vehicle Shakedown device to be in place for exiling trucks. All inlets to be protected with suitable fabric and sectiment trap installed.	ing SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety ronsultation, coordination and cooperation COP, PISS Safety Guide, Managing the risks of plant in the workplace COP
Excavation			Noise	D Unlikely	3 Medium	6	Hearing Protection to be worn.	Mufflers to be used on plant, vibration monitoring required 4, totate	n SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide

							PDS Project Risk Register (PRR)					
	PBS Project Risl	k Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		PBS
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	<u> </u>
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
					Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location:	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in		
Issue Number:	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	add rows to ensure correct	e range is	
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Excavation	Involves structural alteration or repair that requires temporary support to prevent collapse	4.8.1; 4.8.2;	Crodible Collapse of Structure				Ramp / Piling Pati / Crane Base / Temporary Shel Inading platforms to be designed by a subbby qualified engineer. HOLD POINT: Engineer is to inspect and provide certification / report confirming all design requirements (eg proof roll for bearing capacity) have been met prior to use.	Max loading signage (Gross Vehicle Mass) to be installed on loading platform / ramp access gates.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Excavation	Involves, or is likely to involve, the disturbance of asbestos	4.10.2	Exposure to Hazardous Dust	C Possible	3 Medium	9	Unexpected finds protocol to be followed if unknown. If Known, and less than 10m2 PBS to engage an abeletos removalst and monitor tracking of wate to certified wastle trathmert plant. If Abeletos wastle over 10m2 then relevant authorities and the confider and an Abeletos termovalist that due negoed. Any healt monitoring shall be conducted as per the advice of the Abeletos removalist that cocupation typerinit. Ten they of oil conditions to be completed by comsisting and are presented to PBS. All PPE requirements are to be worn to Masks, jump subs. Decontamination of any exposed colding/PPE shall be underlaked holdine bables sharing the effected area.	Contaminated areas to be bunted off using physical barriers and signage installed. Plastic to be installed over contaminated areas to prevert risk of dask arising until removal process is initiated. All workers to hold asbestos awareness training.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
	Is carried out on or near pressurised gas distribution mains or piping; is carried out on or near energised electrical installations or services	4.4.1; 4.4.8	Contact with In- Ground Services	A Almost Certain	4 Large	20	Excavation Permit required when penetrating the ground 200mm or more. DBYD to be reviewed. Known envices are to be identified and Summary Of Services Location Plan (SOS LP) to be updated on weekby basis including services that are sing initiatial grogeratively by service tracks. Digrap by mechanical means is not to be carried out within 1 not a known he service unless EHSQ Manager has been consulted.	As builts to be received from the client to confirm existing services. Service Locator to be engaged to conduct survey of site and provide b PBS. Pct Holing via hand digping every 5m to determine direction of service. Energiser/solate Permit may also be required.	3. Engineering	SS / SM / FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Excavation COP, Managing electrical risks in the workplace
	Is carried out in or near a shaft or trench with an excavated depth greater than 1.5 metres	4.8.1; 4.8.2;4.8.3	Collapse of Excavation / Trenching	A Almost Certain	4 Large	20	Excavation Permit required when pendrating the ground 200mm or more. Excavation / Terrch must be after benched, battered; shored or a continuation of all if deeper than 1.5m, otherwise proceed as per Generating part integration of the second permitted of the second of the pender of the pender and the pender of the second permitted of the second permitted of the pender of relations and must be stored in done and the pender of the pender of relations and must be stored in done and the pender with an one of relations and must be stored in done and the pender with an one of relations and must be stored in done and the pender with an one of relations and must be stored in done and the pender with an one of relations and must be stored in done and the pender with an one of relations and the stored in done and the pender with an one of relations and the stored moder and pender with an one of relations and the stored moder and pender the stored the another of relations and the stored moder and the stored in the stored the stored and integrations is down must be stored and the stored in table of systems can only be actioned allow another of larger of by reteard quality by contactor supervision upper larger based and documented daily checks of accounted in details by contactor supervision when -2m deep 1 kgh & provided to PSR.	Shoring Boxes to provide suitable access involut of excavation. Adjacent structures, roads and footpaths must be supported or protected to prevent collapse. Footings, whildee or III embankments are not to be closer that 2m horizontally from the top of any batter or face of excavation.	4. Isolation	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Wask COP, How to manage work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Excavation	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	B Likely	4 Large	16	Visual barrier to be installed minimum of 2m back from edge of excavation or Physical edge protection installed if closer than 2m to edge where the risk of tail is over 1m. Subtable access to be provided to excavation that does not expose workers to risk of fail. These Excavation* signage to be installed around edge of escavation where deeper than 1.5m.		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Excavation	Is carried out on or near energised electrical installations or services	4.4.1;4.4.7	Contact with Overhead Power Lines	B Likely	4 Large	16	No unloading / loading of trucks to happen in the vacihity of fleese powerlines. All plant to remain at a minimum approach distances to powerlines. Up to 132,000 volts = 3m. 132,000 - 330,000 volts = 6m. Above 330,000 = 8m.	Tiger Tails to be installed by relevant suffortly as a situal reminder. Install heightfocation indicators. Non conclusion barrier to be heatabled balaven building/start and power lines. Competent Spectre to have positive communication with plut (Her facio); and concern plant nonventesh with design envelope has the potential to reach closer fran 3 metres to power lines. Install signage as visual reminder. Additional/hinetim cortricu until Tager Tails are installed, PBS team discussion with contractors on complianceine, Non-conductive height assertes buring to be targed 	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safely Guide, Demotifier Viron COP, PBS Safely Guide, Dent in the workplace COP lead risks in the workplace COP
	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	B Likely	4 Large	16	When using an excavitor - Spotter to have positive communication with operator (via hand signals or UHF radio) at all times. No one is allowed in the avering zone of the piece of part. No one is to approach radii ruless the bucketurm has been incered and continuition tabe encievated by the operator that it is ok to approach. All plant to have fashing beacons operating. Mobile phones not be used when operating plant and explorement. Truly advanting calcula hit registration for excavitors, where this cannot be accomplied and a semi-automatic or other quick hitch is proposed, a written exemption is required from EVS Manager.	Exclusion zone to be in place to prevent unauthorised entry to work area.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Excavation	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	C Possible	3 Medium	9	Any spon thrust be active at sense the mask in the mask mat of or some stopes size. An iting get if is to be matriational as per manufacture specifications and inspected ship by a competent person. Synthetic sting are to be checked 3 monthly and documented on a register. Chaina are to be tested yeary and documented on a register. The SVL of large outpanels in or to be exceeded. Weight of bad to be lifted to be predetermined by a qualified person and marked on load. Selection of sing & aligning competent person and marked on the load. Load is lifted within the view of the operator at all times. Standard lifting producties must be documented within it R SVMs. Authorized person ofly be lin.	Physical Barriers to be in place around edge of excavation to prevent the fail of materials / tools into excavation. Tools and materials must be stored at least 1m back from edge of excavation which is deeper than 1.2m deep.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Excavation COP
	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.6; 4.8.4	Plant Over-Turning	C Possible	4 Large	12	dired workcove ROPSFOPS to be installed on all plant involved in the work activity. Physical Barrier to be installed along top of excavation / irendh to prevent plant / vehicles entering the zone of influence. The SVL of plant and its attachments is not to be exceeded. Seat Bells to be worn where filted.	Penetration covers to be physically secured with signage and be of sufficient strength to support likely plant or equipment in the area. If sizzable penetration, load & point limits to be displayed. Band and Regging required stong timp. Adequate crash barrier to be installed along top of escenation surrounding namp entity.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safely Guide, Managing the risks of plant in the workplace COP, Excavation COP
Excavation		4.13.2	Dust Inhalation	C Possible	2 Small	6		All lock term stockpilles to have suitable covering to prevent the rise of dust.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP, Excavation COP
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1							PBS Project Risk Register (PRR)					
	PBS Project Risk	c Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		PBS
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
	1				Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in add rows to ensure		
Issue Number	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	correct	i unge is	
Issue Date	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Excavation		4.5.3; 4.5.5	Fire/Explosion when refuelling plant and equipment	C Possible	3 Medium	9	Hozardous Materials to be stored in designated storage area immediately after use. Fire Fighting equipment to have tag in date of 6 months and be readily accessible to the refuelling area. Refuelling area to be clear of any combustable material.	Designated refueling area to be identified with signage on site. Hazardous Chemicals and Dangerous Goods Management Sub Plan to be in place. Maintenance / refueling to be performed in set up controlled bunded area.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Excavation		4.13.1;4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance S	C Possible	2 Small	6	Contractor to provide, and have readily available access to, a spill bit which is appropriately sized for the risk of spill when reflecting of if damage was to occur to a plece of plant and equipment. Workers must be hanned in the use of spill has and the 2005 for determinativus/stationes that they are using on the project.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work Health and safely cossillation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Excavation		4.12.1; 4.12.2	Working in High Temperatures - Heat Stress/Heat Exhaustion	C Possible	2 Small	6	Sufficient quantifies of cod drinking water is readily available close to work areas. Regularly rotate workers who perform more streturous activities with less demanding tasks. Take regular work breaks in ooder areas such as air conditioned sheds.	Workers to wear broad brimmed hats and sunglasses for UV protection.	3. Engineering	SS / SM / HSR	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP
Excavation		4.12.1; 4.12.2	Working in Cold, Inclement or Windy Weather	C Possible	2 Small	6	Heated amenifies to be provided. Suitable Access / Egress to be provided to work areas. If lightning is present in the near sky or immediate sky above then concrete booms must be lowered and persons to remain under cover in lunch sheds until the weather passes.	Inspection to be conclucted prior to gales of sile open by PBS Sile Manager EHS Committee to assess all access routes. Any unsultable work areas are to barricaded off with physical barrier until deemed safe to enter.	3. Engineering	SS / SM / HSR	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP
Excavation			Works affect neighbouring structures	C Possible	3 Medium	9	Dilapidation survey to be undertaken by consultant. Prior to works starting	Vibration Monitoring to be in place. Letter box drop to occur in neighbouring properties that might be affected by works. Operate hammer in short bursts only.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Excavation			Unexpected Find	C Possible	2 Small	6	PBS Unexpected Finds protocol to be followed.		2. Administration	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Excavation		4.13.4	Damage to protected flora or fauna	C Possible	2 Small	6	Tree Protection zones using robust barricading to be in place with signage.	Timber batten protection to be placed directly onto the tree trunks in High Pedestrian traffic areas (i.e. public locations in the street near PBS hourdings)	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety rounsultation, coordination and cooperation COP, PBS Safety Guide
	Is carried out on or near pressurised gas distribution mains or piping; is carried out on or near energised electrical installations or services	4.4.1; 4.4.8	Contact with In- Ground Services	B Likely	4 Large	16	Excavation Permit required when penetrating the ground 200mm or more, DBYD to be reviewed. Known services are to be identified and Summary Of Services Location Plan (SOS LP) to be updated on weekly basis including services that are being installed progressively by service trades. Digging by mechanical means is not to be carried out within 1 not a known the service unless EHSO Manager has been consulted	As builts to be received from the client to confirm existing services. Service Locator to be engaged to conduct survey of site and provide to PBS. Pot Holing via sucker truck/hand digping every 5m to determine direction of service. Emergistalisate Permit may also be required.	3. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017 Construction Work COP, Hore to manage work health and adaptive COP, Hore to manage work health and adaptive Core (PMS) health and adaptive core (PMS) safety Galaci health and corepressing COP. Managing electrical risks in the workplace
Fencing		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	C Possible	3 Medium	9	No unsecured components to be left outside PBS fence line.	Semi - Permanent Fencing to be installed Temporary Fencing to be erected in accordance with Ad4607 requirements. Handowire to be nearlined from contrained to that installs force to contrain installation to adartational standards and manufacture requirements. For any second or permitter fencing backer over from client by pbs, a temporary permitter fence handower certificate must be completed and provided to fib. Itemporary permitter fences handower certificate must be completed and provided to the language of the standard standard and any second standard to D. Caded will caded on closer than 4m to a public footpath or readvey. Additional bracing required to be installed	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Fencing		4.7.1;	Hitting Objects with part of body	C Possible	3 Medium	9	No unsecured components to be left outside PBS fence line. No fence component to protrude onto public accesseways in a mannder that obstructs or in hazardous to general public. Bracing to have counterweights above base post or have impatement cap installed.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP. Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
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1							PDS Project Risk Register (PRR)					
	PBS Project Risk	Register		Word Co	olour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		• PBS
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
					Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location:	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in		
Issue Number:	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	add rows to ensu corred		
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level	Responsible	Status	Legal and other requirements
Fencing			(Worst Credible						controly			
			Manual Handling Injury				2 person job when rearranging / reinstating lence panels (eg tilling panels out of bases). Mechanical aids to be used when tilling multiple panels at one time.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Fencing		4.5.1; 4.5.2;4.5.4	Fire/Explosion	D Unlikely	2 Small	4	Hot Works Permit to be in place. Area to be clear of combustble materials. Correct PPE to be worn.	225mm Grinder Permit to be in place	3. Engineering	SS / SM / FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Welding processes COP
Fire Services	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	D Unlikely	4 Large	8	Patism bidden or EVFFs are to be used in the ford patience. Work traditions a minimum width of 450mm can be used. Stag Laddens may only be used for minimum wisk with balke lest hand in the complete and 3 points of contact must be maintained. Delivery drivers or workness are NOT to access the back of tracks unless. "There is a handhall application incorporated onto the back of the vehicle or, "A postball handhall system in povided by the orgical and, "The use of a portable loading bay platform would be the ideal control measure. "The ore or more of these controls are implemented, workness muse the access ladder and maintain 3 points of contact when accending or descending. Ladders to be stepped back from any edges of a building backcome at less 31m or 11m of a 11 preimeter accenvincifiand has been installed.	Tricketed Pressured required by operation of DVPN Hammas to be wron and connected prior to souther bring meters. It have the be inspected daily helden as and manifold as per naudufcluor specifications. Mobile scatted to be used, Any mobile scatted over 4m needs to be erected by a licketed scattedore.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Fire Services		4.5.1; 4.5.2;4.5.4	Fire/Explosion	B Likely	3 Medium	12	Usual gradules a way on or in taking a subject the period of the central and inside in the central state. Hot Works Permit to be in place. Area to be clear of combustble materials. Correct PPE to be work. Fash back arrestors to be on all ony accelere sets. Itsolation/Exergisation Permit to be issued.	225mm Grinder Permit to be in place	3. Engineering	SS / SM / FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and coopersition COP, PRS Safety Guide, Welding processes COP
Fire Services	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	D Unlikely	3 Medium	6	No one is to approach plant unless confirmation has been received by the operator that it is of to approach. All plant to have flashing beacons operating. Mobile phones not be used when operating plant and equipment. Operator to be appropriately Trained / Tcketed.	Exclusion zone to be in place to prevent analihorised netty to work area. Access ways to be redirected to ensure no personal isside operating areas. Outgraper of czane to be prevented by preven lottor or inmiter to givernotatic mon dher perturbidies. User Bg junces where appropriate condrid light weight & for large panel lifts in which communication with the service and management be DHas. Specific command here with the service prevent or tags in the Care Management UHF radio) at all times. Seet betts to be worn at all times where filled, Reder to mobile care operations accessed by the service operations and the service operation of the service operations and the service operations and the service operations and the service operation operations accessed by the service operations accessed by the service operation operations accessed by the service operations accessed by t	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Fire Services		4.7.1;	Cuts and Lacerations	D Unlikely	1 Very Small	2	All guards to be filled to power tools. Wear gloves when working with sharp steel edges. Eye Protection to be worn when using explosive power tool. No high velocity/direct action Explosive Power Tool to be used on site unless approved by PBS Site Manager and the controls required are communicated to workers via a todoct. Dipolarle Power Tool charger must be toted in a tooker after alb bor marked "explosives". Used charges must be disposed of immediately after use.	225mm grinder permit to be issued when applicable	5. Substitution	SS / SM / FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Fire Services		4.10.2	Exposure to Hazardous Material	D Unlikely	2 Small	4	Correct PPE to be worn. SDS to be communicated to all workers involved in the task via TBT, training register or SWMS. Hazardous Materials to be stored in designated storage area immediately after use.	Hazardous Materials and Dangerous Goods sub-plan to be in place.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Fire Services			Noise	C Possible	2 Small	6	Hearing Protection to be worn.	Signage to be in place when using Explosive Power Tools.	2. Administration	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing noise and preventing hearling loss at the work COP
Wall Tiling	Is carried out in an area which may have a contaminated or flammable atmosphere	4.10.2	Exposure to Hazardous Material	B Likely	3 Medium	12	Isolate and ventilate the area as applicable by SDS. Obtain and adhere to risk based assessment of SDS requirements for all products brought to site.		3. Engineering	SS / SM	Open	BI UR WAY ALLYP WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety onsultation, coordination and cooperation COP, PBS Safety Guide
Floor Sealing &/or Floor and Wall Tiling		4.13.1;4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance S	E Rare	3 Medium	3	Use designated washout facilities.		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Floor Sealing &/or Floor and Wall Tiling		4.10.2	Exposure to Hazardous Dust	E Rare	4 Large	4	Ensure adequate ventilation to work areas. Workers to wear suitable PPE including dust mask and eye protection.		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Floor Sealing &/or Floor and Wall Tiling	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	D Unlikely	4 Large	8	Use scaffold / EWP or platform ladders. Do not work on ladders next to open windows, balustrades or other unprotocoled fail areas.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide

I							PES Project Risk Register (PRR)					
	PBS Project Risk	(Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selection		
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
					Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location:	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas i add rows to ensu		
Issue Number:	Rev 4			-	NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	correc	ct	
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable t your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Formwork	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	A Almost Certain	4 Large	20	CastEmbed 20 X 20 Galvariaed Safety mesh into all service penetrations. Fixed cover to be on all penetrations over 126m diameter. Al penetration covers to be identified similar to "Danger Penetration Below". Taizable penetrations are located in areas where plant &for equipment is likely to be used (op to be used. Poptional below in the plant below of the plant below. The plant below of th	No ore is to stand on truck tray urless if has hand rails in place. Minimum of 1.8m lazy joists to surround formworkers working on leading degles at all times. Diroce/AFS to have edat m in in length ordered and to be erecked and bened prior to suspend decks to it can at a at hand m.1. Two access ways to be clearly defined under deck and free of all colorulorsor slig, trip hazards at all times. Crash deck to be installed under all leading edges.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017. Construction Work COP, How to manage work health and safety consultation, coordinatic and cooperation COP, PBS Safety Guide
Formwork		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	A Almost Certain	3 Medium	15	Exclusion zone to be erected, which still maintains an access point underneath the deck, when working on leading edges or a risk of materialations failing over 2 methre exists. This exclusion zone must take into consideration the arc, fail and bounce of materials & tools. Stilpping areas must be have barriers and signage in place to prevent unablifying access. Authorised person only to b in direct work/zone.	Structural engineer to provide documented authorisation for all formwork abutter lifting lugs.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordinatio and cooperation COP, PBS Safety Guide
Formwork		4.9.1; 4.9.2; 4.9.3	Failure of Structure	B Likely	5 Very Large	20	Structural engineer to provide documented authoritation prior to concrete poor 4 stripping. Engineer to include in straining or provide indeministerior nature al load paires are or deck. Where makenia i designed to an interactional or conders indexed er, engineer many contribution (and the stream autoritation and and and and and and and and and an	Formwork framing to be protected against impact from moving plant & equipment.	3. Engineering	SS / SM / FM / SE CA	/ Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Safe Design of Structures COP
Formwork		4.7.1;	Cuts and Lacerations	B Likely	3 Medium	12	All guards to be fitted to power tools. Wear gloves when working with sharp steel edges.	Frames and limbers are not to obstruct access ways, temporary power boards or emergency exits. 225mm grinder permit to be issued when applicable	3. Engineering	SS / SM / FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Formwork	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	D Unlikely	3 Medium	6	No one is to approach plant unless confirmation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating. Mobile phones not be used when operating plan and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unsult/orised entry to work area. Access ways to be indirected to ensure no premoved inside come operating waves. Outlogens of come to be proteked by jersey handle and inside to prevent conduct from other place Webleckies. Use Tay Lines when appropriate boarden light weight Rus Spotter Dogman to have positive communication with operator to sign into Come Management Sub Plan. Spotter Dogman to have positive communication with operation (with and inguina, where or OUF radio) at al lines. Relate to motive came operations actively in the PRR.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PIBS Safety Guide, Managing the risks of plant in the workplace COP
Hot Works (Including Grinding & Welding)		4.5.1; 4.5.2;4.5.4	Fire/Explosion	C Possible	3 Medium	9	Isolate / Exclusion zone where required and display signs. Not Works Permit to be issued and Service Isolation Permit where required. Install fash back arrestoris to all any sets and ensure subleb fer adingulahers are analy. That protocols coresh os be used where required to protocol there volves and public. Merify and isolate existing services. Funzer work areas are clear of debris. Ensure wellfallon is adequate.	Arrange to have fire alarm systems disconnected in area of works.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordinatior and cooperation COP, Managing the risk of fall COP, PBS Safety Guide
Kitchen Benchtops	Is carried out in an area which may have a contaminated or flammable atmosphere	4.10.2	Exposure to Hazardous Dust	C Possible	3 Medium	9	Nothers required to cd (includes gind, diff or polish) menufactured store containing crystallies allow when a power too muse responsible proceedings and the store on the footing control must be in place - a water delivery system that supplies an continuous feed of water over the area being of a suppress the generation of dust - a severable detaction system that is attached to the hood used for the control of the severable of the control of the severable of the control of the severable of the control of the severable of the control of the control of the severable of the control of the control of the severable of the control of the control of the severable of the control of the control of the severable of the control of the control of the control of the control of the control of the severable of the severable of the control of the severable of the severable of the control of the severable of t	Culting area expendion screens to be hybridized. Workers required to user-resolution protective explorement (PRE) must have a connectly filled and leader face mask using where a quantitative test. All digitations resources must have it testing-complete. Three will be no culting of kitchen benchtops on site and must be brought back to the factory if amendments are required.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Landscaping	Is carried out on or near pressurised gas distribution mains or piping; is carried out on or near energised electrical installations or services	4.4.1; 4.4.8	Contact with In- Ground Services	B Likely	4 Large	16	Excavation Permit required when peretrating the ground 200mm or more. DBVD to be reviewed. Known services are to be identified and Summary Of Services Location Plan (SOS LP) to be updated on weekly basin changing services. That are being installard programskilly by service than Eugling by mechanical means is not to be carried out within 1 not al known her service unless DHSD Manager has been consulted.	As builts to be received from the client to confirm existing services. Service Locator to be engaged to conduct survey of also and provide to PBS. For fromy via aucket truschared digging every Sin to determine direction of service. Emerglishisolate Permit may also be required.	3. Engineering	SS / SM / FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Excavation COP, Managing electrical risks the workplace
Landscaping	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	C Possible	4 Large	12	Spatier to have positive communication with operator (via hand signals or UMF radio) at all times. No the shallowed in the averg zone of the piece of plant. No one is to approach plant unless the bucketiam has been lowered and confirmation has been necessed by the operator that it is at to approach. All plant to have flashing beacons operating. Mobile phones not be used when operating plant and equipment.	Exclusion zone to be in place to prevent unsufficiated entry to work area. Emergency stop button to be applied to the machine.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplac COP
Landscaping	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.6; 4.8.4	Plant Over-Turning	D Unlikely	4 Large	8	ROPS/FOPS to be installed on all plant involved in the work activity. Physical Barrier to be installed along top of excavation / lrench to prevent plant / vehicles entering the zone of influence. The SVU of plant and its attachments is not to be exceeded. Seat Setts to be worn where fitted.	Penetration rowers to be physically secured with signage and be of sufficient strength to support likely plant or equipment in the area. If sizable penetration, load & point limits to be displayed.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Landscaping		4.5.5	Fire/Explosion when refuelling plant and equipment	C Possible	4 Large	12	Hazardous Materials to be stored in designated storage sees immediately star use. Fire Fighting equipment to have tag in date of 6 months and be readily accessible to the reflating area. Refuelling area to be clear of any combustable material.	Designated refueling area to be identified with signage on site. Hazwidous Chemicals and Dangerous Goods Management Sub Plan to be in place.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety issks COP, Wrok health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Landscaping		4.13.1;4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance S	D Unlikely	3 Medium	6	Contractor to provide, and have readily available access to, a spill kit which is appropriately sized for the risk of spill when relating of if damage was to occur to a piece of plant and equipment. Workers must be trained in the use of spill kits and the SDS for themcials/ubdances that they are using on this project.		2. Administration	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Landscaping	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	D Unlikely	4 Large	8	All filling gear is to be maintained as per manufacture specifications and inspected daily by a competent person. Symthetic sings are to be checked 3 monthly and documented on a register. Chains are to be tested yearly and documented on a neglete. The SVU cliffing equipment is not to be exceeded. Where a dogmain not analysiable. "Veglet of load to be lifted to be predetimined by a competent person and marked on load. Selection of sing & alinging techniques for load is nordetermined by a competent person and marked on load. Selection of sing & alinging techniques for load is predetermined by a competent person and marked on load. Selection of sing & alinging techniques for load is a condeter dereson to predetermined by a competent person because the selection of the selection of the selection of the selection of the selection		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide

1							PBS Project Risk Register (PRR)					
	PBS Project Risk	Register		Word Co	olour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		PBS
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
	I				Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location:	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in L2-L add rows to ensure ran		
Issue Number:	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	correct	inge is	
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1		D	Pelete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible St	tatus	Legal and other requirements
Landscaping		4.12.1; 4.12.2	Crodible Working in High Temperatures - Heat Stress/Heat Exhaustion	E Rare	2 Small	2	Sufficient quantifies of cool drinking water is readily available close to work areas. Regularly rotate workers who perform more strenucus activities with less demanding tasks. Take regular work breaks in cooler areas such as air conditioned sheds.	Shade Covers to be installed. Workers to wear broad brimmed hats and sunglasses for UV protection.	3. Engineering	SS / SM / HSR (Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP. Work eaith and safely consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP
Landscaping		4.12.1; 4.12.2	Working in Cold, Inclement or Windy Weather	E Rare	2 Small	2	Heated amenifies to be provided. Suitable Access / Egress to be provided to work areas. If lightning is present in the near sky or immediate sky above then concrete booms must be lowered and persons to remain under cover in lunch sheds until the weather passes.	all access routes. Any unsuitable work areas are to barricaded off with physical barrier until deemed safe to enter.	3. Engineering	SS/SM/HSR (Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work estih and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP
Lift Installation	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6; 4.1.4;	Fall of Person	A Almost Certain	4 Large	20	Physically fix 50 X 25mm mesh or ply to each ift shaft opening after pouring & prior to III install commending. Replace mesh / ply III door opening protection with deata lock keyed III cage physically fixed across opening before III install commercing. Ensure temporary handrall is installed at every they with only working level removed for access but replaced before moving working temp platform. Ensure hand rails bublicateds are installed a secored on top of car before working commercing.	Delivery drives or workers are NOT to access the back of hucks unless; "There is a handral system incorporated on the back of the which er, "A portable handral" system is provided by the project and, "The use of a portable location polypollation works the the ideal control measure. When one or more of these controls are implemented, workers may use the access ladder and maintain a control of control shows the them accession or drawarding.	4. Isolation	SS/SM C	Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work wealth and safety consultation, coordination and cooperation COP, PBS Safety Guide
Lift Installation	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	C Possible	4 Large	12	No one is to approach plant unless confirmation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating Mobile phones not be used when operating plant and equipment. Extrame vering temp plant milit days is extramined that bears tagged out accordingly. Operator to be appropriately Transed Tradeed. Isolation/Exergisation Permit to be issued.	3 onicide of contract when alreading or determined on the extension of the section of the sectio	4. Isolation	SS/SM/FM C	Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work ealth and safety consultation, coordination and cooperation COP, PBS Safety Guide, fanaging the risks of plant in the workplace COP
Lift Installation		4.5.1; 4.5.2;4.5.4	Fire/Explosion	C Possible	4 Large	12	Hot Works Permit to be in place. Area to be clear of combustible materials. Correct PPE to be worn. Flash back areafors to all oxy sets.	225mm Grinder Permit to be in place	3. Engineering	SS/SM/FM C	Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Welding processes COP
Lift Installation		4.7.1;	Cuts and Lacerations	D Unlikely	2 Small	4	All guards to be fitted to power tools. All PPE requirements shall be assessed in the contractors HR SWMS	225mm grinder permit to be issued when applicable	3. Engineering	SS/SM/FM C	Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work ealth and safety consultation, coordination and cooperation COP, PBS Safety Guide
Local Council Requirements							PBS will either communicate directly (through Letter drops, Public Notice Boards or Consultation tessions) with these entities, or through the client established communication protocols for feedback when assessing HRAC to be implemented when reducing any potential risk(a) posed.	DA Hours - Monday to Friday 0700 to 1730, Saturday 0700 to 1600. No works allowed on Sunday or public holdings. Truck staker may must be provided at construction est point. Sediment tracked ontot the public readway vehicles leaving the subject sate to be sense jup immediately. Adequate tree protection measures in place as per alborist report statp 1.01	3. Engineering	SS/SM (Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP. Work ealth and safely consultation, coordination and cooperation COP, PBS Safety Guide
Local Traffic Condition							PBS will either communicate directly (through Letter drops, Public Notice Boards or Consultation essions) with these entities, or through the client established communication protocols for feetback when assessing HERAC to be implemented when reducing any potential risk(s) posed.	Work Zone obtained by council.	3. Engineering	SS/SM (Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Masonry	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	A Almost Certain	4 Large	20	Delivery drivers or workers are NOT backasses the back of breaks unless; "There is a handraff alignet incorporated droth the back of the vehicle or; "A postable handraff alignetime is provided by the orgical and, "The use of a portable kading by platform works dre bit dela conto measure. When one or more of breas controls are implemented, workers may use the access ladder and maintain 3 paties of controls when assending or descending.	Scatfold to be used with hand rails and mid rails or mesh panels. Ticketed Personnel required for operation of EWP. Harness to be worn and connected prior to kucket being raileed. Harness to be inspected daily before use and mantalend as per manufacturer specifications.	3. Engineering	SS/SM C	Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work wealth and safety consultation, coordination and cooperation COP, PBS Safety Guide
Masonry		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	B Likely	4 Large	16	Physical barriers to be in place as an exclusion zone to prevent access adjacent to or behind the uncared wall and must take into consideration the arc, fall and bounce of materials and tools.	Tools to be on lanyards when working above 2m fall risk.	4. Isolation	SS/SM C	Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work lealth and safety consultation, coordination and cooperation COP, PBS Safety Guide
Masonry		4.7.1;	Cuts and Lacerations	C Possible	2 Small	6	All guards to be fitted to power tools. Brick saw to be looked on solid bench.	225mm grinder permit to be issued when applicable	3. Engineering	SS/SM/FM C	Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work lealth and safety consultation, coordination and cooperation COP, PBS Safety Guide
Masonry		4.9.1; 4.9.2; 4.9.3	Failure of Structure	B Likely	4 Large	16	Temporary bracing of all igneen walki above 1 Sm to be installed prior to any additional courses being laid. Contractor separator to sense excluded darks not overloaded with max loading signage-withite. Masony walls must be designed by a qualified and registered engineer. Masonry walls must not be erected in adverse weather conditions.		3. Engineering	SS/SM/FM/SE/ CA	Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work ealth and safety consultation, coordination and cooperation COP, PBS Safety Guide, Safe Design of Structures COP
Masonry			Noise	C Possible	2 Small	6	Hearing Protection to be worn. Brick Saw to be set up in an isolated outling area with signage	Brick saw to be encapsulated by materials on 3 sides which reduce the level of noise emitted.	4. Isolation	SS/SM C	Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work eeth and safety consultation, coordination and cooperation COP, PBS Safety Guide, lanaging noise and preventing hearing loss at the work COP
Masonry		4.13.1;4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance s	D Unlikely	2 Small	4	Designated washout / recycling areas for concrete and concrete equipment with regular monitoring. Waste water must be controlled from flowing across waikways, work areas and outside site boundaries		4. Isolation	SS/SM (Open h	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP

	DDO Ducie et Diel	- De vieten					PBS Project Risk Register (PRR)					
	PBS Project Ris	k Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		
					Permits Refer to another activity in	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering %Controls <	92%	
					the PRR	SM	Site Manager	5. Substitution	7	Engineering	8%	
			_		team Reference to PBS	FM	Foreman	4. Isolation	67			
Workplace Location					document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in add rows to ensur correct	re range is	
Issue Number	: Rev 4		_	-	NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	correct		
Issue Date Activity Description			Hazard /	Likelihood	Consequence	PE/SE Risk Rating	Project Engineer / Site Engineer	1. PPE Site Specific Control Measures	1 Hierarchy of	Responsible	Status	Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Impact (Worst	Likelillood	Consequence	RISK Raung	Mandatory Control Measures	Site Specific Control Measures	Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Masonry	Carried out in an area that may have a contaminated atmosphere	4.10.2	Exposure to Hazardous Dust	C Possible	2 Small	6	Conect PPE to be worn when mixing cement including PI/P2IP3 duat mask. Brick Saw to be set up in an isolated cutting area with signage.	Brick saw to have water attachment and dust mask to be worn when operating.	4. Isolation	SS/SM	Open	WHS Acl 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Masonry	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	A Almost Certain	4 Large	20	No one is to approach plant unless confirmation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating, Mobile phones not be used when operating plan and equipment. Operator to be appropriately Trained / Tickeed.	Exclusion zone to be in place to prevent unautiviside ethny to work area. Access ways to be redinced to ensure no personnel inidia openating areas. Outginger of care to be produced by prever just or amilar to prevent contact from other plant/whicke. Use Tag Lines when appropriate to control light- weight & for large parell lifts in which contacts. Degrans and Organization strate to sign in the Draw Management Sub Plans. Spotent: Degrans to have positive communication with operator (vir hand signals, whitele or life? action year in the plant of the operation of the plant of the plant of the plant.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
(includes Vehicle Mounted	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	A Almost Certain	4 Large	20	Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. No one is to approach plant unless confirmation has been received by the operation Tati (is of to approach. All part to have fashing become operating. Mole phores not to eucle when operating plant and equipment. Dogman and Operator b sign into Crane Management Stup Plan. Use Tag Lines when appropriate to control (Big Mach Carl per partill flam involg configured to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unsufficient entry to work sees. Access ways to be redirected to ensure no personnel inside zone operating areas. Outriggers of orane to be protected by jensey kurbs or similar to prevent contact from other plant/veh/des.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Mobile Crane Operations (includes Vehicle Mounted Crane/Telehandler/Franna/C rawler)	:	4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	B Likely	4 Large	16	Dogman and Operator to sign into Crane Management Sub Plan. All lifting pear is to be maintained as per manufacture repecifications and impeded daily by a competent person. Synthetic alings are to be checked 3 monthly and documented on a register. Chains are to be lented yearly and documented on a register. Authorised person only to be in direct workzone.	Tag Lines to be used when appropriate to control light weight &lor large panel lifts in windy conditions	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
(includes Vehicle Mounted Crane/Telehandler/Franna/C rawler)	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.6	Plant Over-Turning	B Likely	4 Large	16	Dogman and Operator to sign into Crane Management Sub Plan. Seat belts to be worn at all times where Bind. The SVI. of the plant and his attachments is not to be exceeded. Set up in an area hard papered by MRS is clearly. The MI and the state of the set of the second set of the set of the two curve of SWI. Set is clearly. The MI and the set up of themsen the hard not function benefits and the set of the set of the set of the set of the second set of the set of the tends of the set of the tends or on set of the tends. Outliggers must be set up on stable ground.	Prevention covers to be physically secured with aquage and be of sufficient strength to support Review pland or equipment the areal. Statuble periods in this lob be displayed. Crare to work lower than 5% capacity. Comparison to second and aquation by the RSS lise burgers. Writing lowers for pland and unique stresses and and displayed by the RSS lise burgers. Writing and the second stress stress and stresses and and displayed by the RSS lise burgers. Writing universitäble the crare should be used within the manufacture's specified capacity for opending on the reference and desires of allows.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plain in the workplose COP WHS Act 2011, WHS Regulations 2017,
(includes Vehicle Mounted Crane/Telehandler/Franna/C rawler)	Is carried out on or near energised electrical installations or services	4.4.1;4.4.7	Contact with Overhead Power Lines	C Possible	4 Large	12	Dogman and Operator to sign into Crane Management Sub Plan. No uncoding / loading of trucks to happen in the vacinity of these powerlines. All plant to remain at a minimum approach distances to powerlines. Up to 132,000 volts = 3m. 132,000 - 330,000 volts = 6m. Above 330,000 = 8m.	Tiger Tails to be installed by relevant authority as a visual reminder, Install heightfocation indicators. Non conductive barrier to be installed between plant and yower lines. Competent Spdert In have positive communication with plant (UHF radios) and observe plant movements when design envelope has the potential to reach closer than 5 metres to power lines. Install signage as visual reminder. Non conductive bag lines to be used to control load.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide Managing the risks of clant in the WHS Act 2011, WHS Regulations 2017,
Mobile Crane Operations (includes Vehicle Mounted Crane/Telehandler/Franna/C rawler) Neighbouring Businesses	:	4.3.6	Plant Failure	C Possible	4 Large	12	All lifting gear is to be matritationed as per manufacturer specifications and inspected daily by a competent person - Synthetic ellings are to be checked 3 nonthly and currented on a register. Chains are to be bested yearly and documented on a register. Daily inspection to be completed by operator prior to operation. Plant to serviced and maintained as per manufacturers specifications.	Work box available for rescue	3. Engineering	SS / SM	Open	Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace
				C Possible	3 Medium	9	PES will either communicate directly (through Letter drops, Public Notice Boards or Consultation session) with these entities, or through the client established communication protocols for feedback when assessing HERAC to be implemented when reducing any potential risk(s) posed.	Lefter Box Drops to occur 7 days prior to any works that will affect neighbouring businesses. Linda Sokulich is the community lason officer to be communicated with prior to any works occurring.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Neighbouring Residents				C Possible	3 Medium	9	PBS will either communicate directly (through Latter drops, Public Notice Boards or Consultation seasons) with these entities, or through the client established communication protocols for feedback when assessing HRAC to be implemented when reducing any potential risk(s) posed.	Letter Box Drops to occur 7 days prior to any works that will affect neighbouring businesses. Linda Sokolich is the community lason officer to be communicated with prior to any works occurring.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Painting		4.10.2	Exposure to Hazardous Dust	B Likely	2 Small	8	Ensure adequate verifiation to work areas. Workers to wear suitable PPE including dust mask and eye protection. Ensure exclusion zones are in place and maintained to protect other workers when spraying.		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Painting	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	C Possible	4 Large	12	Use scalloid / EWP or platform ladders. Do not work on ladders next to open windows, balastrades or other unprotected fail areas.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Painting		4.13.1;4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance S	C Possible	3 Medium	9	Store paint and turps / thinners in bundled area/s and in accordance with legislative requirements. Use designated washout facilities.		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safely Guide
Painting		4.10.2	Exposure to Hazardous Material	E Rare	3 Medium	3	Obtain and adhere to risk based assessment of SDS requirements for all products brought to site. Prior to stripping any existing paint; check and confirm that it is not lead based paint.		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Partitions, Walls & Ceilings	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	C Possible	4 Large	12	Use scaffold / EWP / platform ladders / 450mm vide treaties. All treaties / vook platforms to be minimum 450 wide with handraits and access when above 1 mete high or at a leaser height where a rist assessment deems required. 3 kep ladders are not to be used to gain height.	Step ladders are not allowed. All penetrations to have fixed cover.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide

1			1				PBS Project Risk Register (PRR)					
	PBS Project Risk	k Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selection		PBS
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
					Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location:	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	ßCheck formulas i	n L2-L7 if you	
Issue Number:	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	add rows to ensu correc		
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Partitions, Walls & Ceilings			Cradibla									
		4.7.1;	Cuts and Lacerations	C Possible	2 Small	6	All guards to be fitted to power tools. Eye Protection to be worn when using explosive power tool. No- high velocity/fitted action: Epolosive power Tool to be used on its unleres approved by PSS Site. Manager and the controls required are communicated to workers via a toothost. Explosive Powered Tool changes must be stored in a locked metal too manked "explosive". Used alwages must be disposed of immediately after use.	225mm grinder permit to be issued when applicable	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Partitions, Walls & Ceilings												
			Noise	C Possible	2 Small	6	Hearing Protection to be worn.		1. PPE	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Partitions, Walls & Ceilings		4.10.2	Exposure to Hazardous Dust	D Unlikely	2 Small	4	Install dust control for MDF and other hazardous products being cut onsite.	MDF cutting room to be installed and full compliance with NOHC standars is required.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Piling	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	D Unlikely	4 Large	8	Exclusion zone to be in place using physical barriers around each pier. Piers must be covered and highlighted (Eg Pickets and mesh around hole) if work is not being conducted and no one is directly monitoring. This also includes pinning mesh over hole and installed ply as a penetration cover.	All piles over 450 diameter needs specific controls for the risk of fall identified in HR SWMS and reviewed by EHSQ Manager.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Piling	Involves, or is likely to involve, the disturbance of asbestos	4.10.2	Exposure to Hazardous Dust	C Possible	3 Medium	9	Test Holes of soil conditions to be completed by consultant and results provided to PBS.	Contaminated areas to be burited off using physical barriers and signage installed. Plastic to be installed over contaminated areas to prevent risk of data aring undir removal process is initiated Plan created to highlight affects absents NKOWM areas. Whi likely areas the highlight affects to plan is then to be communicated to contractors and used in their internal communications with the workers.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Piling	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	C Possible	4 Large	12	Spotter to have positive communication with operator (via hand signals or UHF radio) at all times. No one is allowed in the swing zone of the piece of piant. No one is to approach piant unless confirmation has been received by the operant of that is do a bapporch. All piant have flashing becoms operating. Mobile phones not be used wing operating piant and equipment. All immediate workers must be outside the set wing zone and behind a physical barrier protecting the hole.	Exclusion zone to be in place to prevent unauthorised entry to work area.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.6; 4.8.4	Plant Over-Turning	B Likely	4 Large	16	ROPS/FOPS to be installed on all plant involved in the work activity. Physical Barrier to be installed along top of excavation / trench to prevent plant / vehicles entering the zone of influence. The SVIL of plant and its attachments is not to be exceeded. Seat Belts to be worn where fitted.	Penetration covers to be physically secured with signage and be of sufficient strength to support likely plant or equipment in the area. If stable penetration, load & paint limits to be displayed. Strew Pites to be detrified with stray paint and apport to have positive communication with plant operator at all times to ensure plant does not come into contact with previously installed screw piles. Exclusion zone to be in plant does not across the contact area are not writing with plant in this area area.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Monarion the risks of diamit in the workname
Piling		4.3.6	Plant Failure	B Likely	3 Medium	12	All lifting gear is to be maintained as per manufacturer specifications and inspected daily by a competent person - Synthetic sings are to be checked 3 monthly and documented on a register. Chaina are to be leaded yearly and documented on a register. Daily respection be completed by openator prior to operation. Plant to serviced and maintained as per manufacturers specifications.		3. Engineering	SS/SM	Open	Managing the risks of plant in the workplace WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace
	Is carried out on or near pressurised gas distribution mains or piping; is carried out on or near energised electrical installations or services	4.4.1;4.4.7	Contact with In- Ground Services	B Likely	4 Large	16	Excavation Permit required when penetrating the ground 200mm or more. DBYD to be reviewed. Known envices are to be identified and Summary Of Services Location Plan (GSG LP) to be updated on weekly basis including services that are bein initiated progressively by service tracket. Diging by mechanical means is not to be carried out within 1 nn of a known live service unless EHSQ Manager has been consulted.	As builts to be received from the client to continm existing services. Service Locator to be engaged to conduct survey of site and provide to PBS. Pot Holing via sucker truckhand digging every 5m to determine direction of service Energisalisolate Permit may also be required.	3. Engineering	SS/SM/FM	Open	COP WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Excavation COP, Managing electrical risks in the workplace
Piling			Noise	D Unlikely	3 Medium	6	Hearing Protection to be worn.	Mufflers to be used on plant. vibration monitoring required	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Piling	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	D Unlikely	3 Medium	6	Any spoil must be stored at least 1m back from edge and on down slope side. All lifting gear is to be maritabled as per manufacturer specifications and impeched daily by a competent person Synthetic and the store of the store back party and the store. Yield the store of th	Exclusion zone to be in place to prevent unsuffortised entry to work area.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	C Possible	4 Large	12	Platform ladders or EVIP's are to be used in the first instance. Work treates a minimum width of 450mm can be used. Step Ladders may only be used for minor works which take lease than 15 minutes to complexe and 2 Spland & collack must be minimum. Delivery drives or works are a Vort to access the "There is a hardnatil system incorporated or to be tack of the vehicle or, "A portible handling layers in provided by the project and, "The use of a portible bading bay platform would be the ideal contor measure. When one or more these controls are implemented, worksen wurde the class ladder and maintain 3 points of contact when accessing or descending. Ladders to be stepped back from any edges of a budding blackset and was in the lander of the an apprecision service staff base be initiated.	Tickeled Personnel required for openation of EWP. Hanness to be worn and connected price to bucket being mass. Harness to be impacted daily before use and maintained as per manufacture specificiations. Mobile scaffold to be used, Any mobile scaffold or wer fin needs to be erected by a toketed scaffolder.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Plumbing		4.5.1; 4.5.2;4.5.4	Fire/Explosion	C Possible	3 Medium	9	Hot Works Permit to be in place. Area to be drear of combustitive materials. Correct PPE to be worn. Flash back arrestors to at ony sets.	Flash/welding Screens to be installed to protect the public and other workers.	3. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Welding processes COP

1		-					PBS Project Risk Register (PRR)					
	PBS Project Risk	Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR Input required by the site	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
	A Illian and Anna Oranamalah				team Reference to PBS	FM	Foreman	4. Isolation	67	BCheck formulas in L2-L7 if you add rows to ensure range is correct		
Workplace Location:	1 Ulonga Ave, Greenwich				document	CA	Contracts Administrator	3. Engineering	130			
Issue Number:	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18			Delate Logislation / Codes not applicable to
Issue Date: Activity Description	22/12/2020 High Risk Construction Work	GMR Reference	Hazard /	Likelihood	Consequence	PE/SE Risk Rating	Project Engineer / Site Engineer Mandatory Control Measures	1. PPE Site Specific Control Measures	1 Hierarchy of	Responsible	Status	Delete Legislation / Codes not applicable to your jurisdiction
Activity Description			Impact (Worst	Likelihood	Consequence	rusk ruting			Control (Highest Level Control)		otatas	requirements
Plumbing			Cradibla									
		4.7.1;	Cuts and Lacerations	C Possible	2 Small	6	All guards to be fitted to power tools. All PPE requirements shall be assessed in the contractors HR SWMS	225mm grinder permit to be issued when applicable	3. Engineering	SS/SM/ FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety crists COP, WORS and cooperation COP, PBS Safety Guide
-	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	B Likely	4 Large	16	No one is to approach plant unless confirmation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating. Mobile phones not be used when operating plan and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unsultorised entry to nork area. Access ways to be indexed to ensure no personnel inside operating areas. Outragen of crares to be produced by jersey kuts or insinar to prevent conduct from other plantwiselia. Use Tag Lines when appropriate condral light weight & for urge panel lifts in which conditions. Dogma and Operator to sign into Crane Management bob Plans. Soliding Company to New York and Solidian and Company to the Solidian Management UHF radio) at all times. Seat-tote to be own at all times where titled. Role to incluse care operations antivity and execution share you be the PRR.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety ross-litation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Plumbing		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	C Possible	2 Small	6	Authorised person only to be in direct workzone.	Tools to be on lanyards when working above 2m fall risk. Physical barriers to be in place as an exclusion zone and must take into consideration the arc, fall and bounce of materials and bois. Area to be buried off with signage to prevert unauthorised access.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Plumbing		4.13.1;4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance S	E Rare	2 Small	2	Contractor to provide, and have readily available access to, a spill kit which is appropriately sized for the risk of spill when relating or if damage was to occur to a piece of plant and equipment. Workers must be trained in the use of spill kits and the 2005 for chemical/subclarince that they are using on the project.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety counsultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Plumbing		4.10.2	Exposure to Hazardous Material	D Unlikely	2 Small	4	Correct PPE to be worn. SDS to be communicated to all workers involved in the bask via T0T, training register or SWMS Hazardoux Materiatis to be stored in designated storage area immediately after use.	Hazardous Meterials and Dangerous Goods sub plan to be in place.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Render	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	C Possible	4 Large	12	Use scatfold / EWP or platform ladders.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Render		4.10.2	Exposure to Hazardous Dust	D Unlikely	2 Small	4	Ensure Workers wear suitable PPE including dust mask and eye protection or full face shield when mixing.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Render		4.13.1;4.13.3	Environmental Contamination from Spill of Hazardous Chemicals/Substance S	E Rare	3 Medium	3	Designated washout areas/facilities to be used and collect / recycle waste water. Waste water to be controlled from flowing across walkways and work areas.		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Scaffold	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	A Almost Certain	4 Large	20	Non-compliant areas of audifield are to its included with signings () a Danger - Incomplete audifield). Sequential exection - dismarkle markhe to ensure fell prevention for califolders at all times. Scattbatter working platforms the min 450mm vide mit access & Anardatte above - 15m (at. No trades to modify any scattfold components / arrangements nor overlaad platforms.	Delivery drivers or workers are NOT to access the back of hruchs unless; "There is a handral system incorporated on to be task; of have which or, "The use of a portable loading public public how only be taked on the ending of the "The use of a portable loading public how only be taked another measure." When one or more of here controls are implemented, workers may use the access ladder and marintain 3 points of control when accending or decording.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Scaffold		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	A Almost Certain	4 Large	20	Exclusion zone using physical barrier to be in place for erection / dismantific / altering of availed exclusions. All platforms shall be closely decked such that a gap between individual decking components in a bay is not greater than 10mm - this applies to platforms greater than 2m above ground. Authorised person only to be in direct workcore.	Verying platforms are to be fully enclosed to prevent objects / materials failing through. The resultent gap between the finished face of the building and the platform edge or adjacent forthcrulal member of the scattbild does not exceed 100mm. All designated scores points off the scattbild to the slab must be covered with ply.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Scaffold		4.9.1; 4.9.2; 4.9.3	Failure of Structure	A Almost Certain	5 Very Large	21+	Ensure that person's are nominated to co-ordinate number of scaffold working decks (a close of access to current non working decks) & material loading on each deck at any one time. Scaffald to be enceded an accessive with mandfacture in instructions & of in accession and with apprecise dashed plant. Hencover, certificate to be provided and scaff tags to be updated at exist access paint / change of duty, platforms. Anywaits loading in the signed on marked on accellated decks. Those platforms and accession for accession of the signed on marked on accellated decks. Those provides the scaffald components adjacent to areas where mobile plant is operating.	Use designated loading platforms with loading limit signage displayed.	3. Engineering	S\$/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety rounsultation, coordination and cooperation COP, PBS Safety Guide, Safe Design of Structures COP

i							PBS Project Risk Register (PRR)					
	PBS Project Risk	Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		PBS
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
	Γ				Input required by the site team	FM	Foreman	4. Isolation	67	-		
Workplace Location:	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in L2-L7 if you add rows to ensure range is correct		
Issue Number:	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18			
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control Highest Level Control)	Responsible	Status	Legal and other requirements
Scaffold	Is carried out on or near energised		Cradibla									
	electrical installations or services	4.4.1;4.4.7	Contact with Overhead Power Lines	B Likely	5 Very Large	20	No unloading / loading of trucks to happen in the vacinity of these powerlines. All plant to remain at a minimum approach distances to powerlines. Up to 152,000 volts = 3m. 132,000 - 330,000 volts = 6m. Above 330,000 = 8m.	Tiger Tails to be installed by relevant authority as a visual reminder. Install heightfocation indicators. Non conductive barrier to be installed between scalfold and power lines. Install signage as visual reminder. Isolate overhead powerlines prior to erection/dismantle of scalfold	I. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP, Managing electrical risks in the workplace COP
	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	C Possible	4 Large	12	No one is to approach plant unless confirmation has been received by the operator that it is ok to approach. All plant to have flashing bescore operating, Mobile phones not be used when operating plan and equipment. Operator to be appropriately Trained / Tocketed.	Exclusion zone to be in place to prevent unsuffortised entry to work area. Access ways to be redirected to ensure no personnel inside carae operating areas. Outriggers of crare to be protected by jersely uture or similar to prevent contact from other praintivelicies. Use Tall Lines when appropriate bo control linght weight Kor large panel filts in windy conditions. Dogman and Operator to sign into Crare Management Sub Pans. Spetch Dogman brave possible communication with operator (via hand signals, whiste or UHF radio) at all times. Seet belts to be worn if available. Refer to mobile crare operations activity in this PRR.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Scaffold		4.12.1; 4.12.2	Working in High Temperatures - Heat Stress/Heat Exhaustion	D Unlikely	2 Small	4	Sufficient quantities of cool drinking water is reality available close to work areas. Regularly rotate workers who perform more stremuous activities with less demanding tasks. Take regular work breaks in cooler areas such as air conditioned sheds.	Shade Covers to be installed. Workers to wear broad brimmed hats and sunglasses for UV protection.	I. Engineering	SS / SM / HSR	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the work environment and facilities COP
Scaffold		4.12.1; 4.12.2	Working in Cold, Inclement or Windy Weather	D Unlikely	2 Small	4	Heated amenities to be provided. Suitable Access / Egress to be provided to work areas. Following adverse weather conditions a full inspection to be conducted by a competent person of the scaffold.	Inspection to be conducted prior to gates of sile open by PBS Site Manager/ EHS Committee to assess all access routes. Any unsuitable work areas are to barricaded off with physical barrier until deemed safe to enter.	4. Isolation	SS / SM / HSR	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safely Guide, Managing the work environment and facilities COP
Shotcrete	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	C Possible	4 Large	12	Edge protection as per manufacturers specifications to be installed along top of capping beam.	Mobile scaffold to be used. Any mobile scaffold over 4m needs to be erected by a ticketed scaffolder. HR Licence required for operation of ENP over 11m. Harness to be worn and connected prior to bucket being raised. Harness to be inspected ality before use and maintained as per manufacturer specificiations.	I. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Shotcrete		4.8.1; 4.8.2	Failure of Structure	C Possible	3 Medium	9	Confirm engineering report (geo-tech) for max depth of unsupported excavation		2. Administration	SS/SM/FM/SE/ CA	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Safe Design of Structures COP, Excavation
Shotcrete		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	C Possible	2 Small	6	Authorised person only to be in direct workzone.	Exclusion zone using physical barriers to be in place.	4. Isolation	SS / SM	Open	COP WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Shotcrete		4.10.2	Exposure to Hazardous Material	A Almost Certain	3 Medium	15	Gives to be worn at all times. IP (17397) dust must to be soon: SDS to be communicated to all workers involved in the task via TBT, baking register or SWMS.		2. Administration	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Shotcrete			Noise	B Likely	3 Medium	12	Hearing Protection to be worn.	Mufflers to be used on plant.	I. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, kanaging noise and preventing hearling loss at the work COP
Site Establishment		4.13.1;4.13.3; 4.13.4	Environmental Impact	B Likely	3 Medium	12	All Trees / vegetations areas of no disruption are to be fenced off with suitably signage as "no go" areas Trucks & Plant to dean up roads if mud / debits carried onto roads when leaving site. Ensure spill kit available.		I. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Steel Fixing	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	B Likely	4 Large	16	CastEmbed 4mm mesh into larger penetrations. Fixed cover to be on all penetrations over 125mm diameter. All penetration covers to be identified similar to "Darger Penetration Below". If sizeable penetrations are located in ateas where plant Alor equipment is likely to be used (eg scissor III, palet locate, locatil), exact covers to be duritional ratering him his limits dupled Philam ladder to be used when constructing II shafts. Scientific and using III shafts or vertex wells and when constructing III shafts. Scientific and walks.	No one is to stand on truck tray unless it has hand rails in place. Platform Ladder or work treates of 450mm width to be used. Mobile scattloid to be used. Any mobile scattloid over 4m needs to be erected by a ticketed scattloider.	I. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Steel Fixing	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	C Possible	3 Medium	9	No one is to approach plant unless confirmation has been received by the operator that it is ok to approach. All plant to have flashing bescore operating, Mobile phones not be used when operating plan and equipment. Operator to be appropriately Trained / Toketed.	Exclusion zone to be in place to prevent unsuffortied entry to work area. Access ways to be redirected to ensure no personnel inside carae operating areas. Outriggers of crare to be protected by jersely uture or similar to prevent contact from other primarivelicies. User Equilices when appropriate bo control light weight Kor large panel filts in windy confidence. Dogman and Operator to sign into Crare Management Sub Pans. Spetch Cogman brave possible communication with operator (via hard signals, whiste or UHF radio) at all times. Seat belts to be worn if a valiable. Refer to mobile crare operations activity in the PRR.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Steel Fixing		4.5.1; 4.5.2;4.5.4	Fire/Explosion	C Possible	3 Medium	9	Hot Works Permit to be in place. Area to be clear of combustble materials. Correct PPE to be worn.		I. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Equitations 2017, Construction Work COP, How to manage work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Welding processes COP

1							PBS Project Risk Register (PRR)					
	PBS Project Ris	k Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		PBS
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < 8% Engineering		
	1				Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location:	1 Ulonga Ave, Greenwich	vich			Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	ßCheck formulas in add rows to ensure	L2-L7 if you	
Issue Number:	Rev 4	k in the second s			NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	correct	i tunge is	
Issue Date:	22/12/2020	I				PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level	Responsible	Status	Legal and other requirements
Steel Fixing			(Worst Credible						Control)			
		4.7.1;	Cuts and Lacerations	B Likely	3 Medium	12	All guards to be fitted to power tools, install bar caps on all exposed steel bars. Wear gloves when working with steep steel edges.	225mm grinder permit to be issued when applicable	3. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Structural Steel	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6	Fall of Person	B Likely	4 Large	16	EWP or Scaffold to be used for access for install of structural steel. Pattorm ladders may also be used on even surfaces. Delivery driven or vachers are NOT to access the back of bucks urters: "There is a handrall system in provided by the project and, "A porticible handrall system is provided by the project and, "The or porticible landing system was only be lived control more: When one or more of the aposter back of provided by the project and, Sports of controls tables and an administration of the sport of the sport of control tables and maintain apoints of control tables."	Nobile walfald to be used. Any mobile scaffald over Am media to be reneted by a Soleeted staffald- tickelet Phenome required for openation of DWP. Hannes to be worn and connected plor to bucket being raised. Hanness to be impected daily before use and maintained as per manufacturer specifications.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Structural Steel		4.5.1; 4.5.2;4.5.4	Fire/Explosion	A Almost Certain	3 Medium	15	Hot Works Permit to be in place. Area to be dear of combustible materials. Correct PPE to be worn. Flash back arrestors to all cary sets.	Flash/welding Screens to be installed to protect the public and other workers. 225mm Grinder Permit to be in place	3. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Welding processes COP
Structural Steel		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	C Possible	3 Medium	9	Authorised person only to be in direct workzone.	Tools to be on lanyards when working above 2m fall risk. Physical barriers to be in place as an exclusion zone and must take into consideration the arc, fall and bounce of materials and tools.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Structural Steel	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	C Possible	4 Large	12	No one is to approach plant unless confirmation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating. Mobile phones not be used when operating plan and equipment. Operator to be appropriately Trained 7 Tickeed.	Exclusion zone to be in yalance to prevent unautilinitiand entry to work rane. Access mays to be reflected to entrance no personnel limits conne operating asses. On Strigger and conce to be protected by livery luture or a similar to prevent contact from other plant/whiches. Use Tag Lines when appropriate to control togi- enging M four large port life. In which contactions. Degress and Operative Lines (assessment) and the strigger and Sub Plans. Spotler:Cognan to have positive communication with operator (via hand signate, whitee or UFF rando stal all lines. Reflect the models come operations activity in the TRR.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Structural Steel		4.7.1;	Cuts and Lacerations	D Unlikely	2 Small	4	All guards to be fitted to power tools. All PPE requirements shall be assessed in the contractors HR SWMS	225mm grinder permit to be issued when applicable	3. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Tiling		4.7.1;	Cuts and Lacerations	D Unlikely	2 Small	4	All guards to be filled to power tools. Eye Protection to be worn when using grinder.		3. Engineering	SS / SM / FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Tiling		4.13.2	Dust Inhalation	D Unlikely	2 Small	4	Dust Mask to be worn when cutting tiles.	Designated cutting area to be in place. All tools to have vaccum attachment.	3. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide WHS Act 2011, WHS Regulations 2017,
Tower Crane			Plant Failure	B Likely	4 Large	16	All filling gear is to be maintained as per manufacturer specifications and inspected daily by a competent person - Synthetic alinga are to be checked 3 monthly and documented on a register. Chains are to be leaked yearly and documented on a register. Daily respection to be completed by operator prior to the operation. Plant to serviced and maintained as per manufacturers specifications. No 'tee fail option is advocument, if the create his to polar, il manufacturers specifications. No 'tee fail option is advocument, if the create his to polar, il manufactures to priority located out.		4. Isolation	SS/SM	Open	Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace
Tower Crane			Fire/Explosion when refuelling plant and equipment	C Possible	4 Large	12	Canable disset storage tank with self-contained bunding. Documented process to refuel foxer case. Fire Extinguisher in date of 6 month tagging requirements to be readly accessible.	Hazardous Chemicals and Dangerous Goods Management Sub Plan to be in place.	4. Isolation	SS/SM	Open	COP WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workness COP
Tower Crane			Environmental Contamination from Spill of Hazardous Chemicals/Substance S	C Possible	3 Medium	9	Diesef delivery truck to have suitable split kit & documented split control procedure with trained operator	Hazardous Chemicals and Dangerous Goods Management Sub Plan to be in place.	2. Administration	SS/SM	Open	the workplace COP WHS Act 2011, WHS Regulations 2017, Construction Work COP, Hork Io manage work health and safety inside COP, Work health and safety consultation. coordination and cooperation COP, PBS Safety Guide, Managing risks of hazardous chemicals in the workplace COP
Tower Crane		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	C Possible	4 Large	12	Dogman and Operator to sign into Crane Management Sub Plan. All tilting gear is to be maintained as per manufacture specifications and inspected daily by a competent person. Synthetic alings are to be checked 3 monthy and documented on a register. Chinis are to be feated yearly and documented on register. No "the full" opion is allowable: The crane has the joon. It must be hysically locked out. Authorised person only to be in direct workzone.	Tag Lines to be used when appropriate to control tight weight Aitv large panel lifts in windy conditions, immediate rigger licence required when dual iff occuring, Lanyards are to be used on all tools during crane exector/sitemathe process. No multi-alinging (Christmas Tree Lifts) of materials for a single crane III. Minimural Alling portier required for material & water biam and mink tad Ittigs of the per sharp load. Subbly rated hearding or catch deck to be installed over common areas and access ways.	4. Isolation	SS / SM	Open	WHS Ac1 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Tower Crane	Is carried out on or near energised electrical installations or services	4.4.1;4.4.7	Contact with Overhead Power Lines	C Possible	4 Large	12	Dogman and Operator to sign into Crane Management Sub Plan. No unloading / loading of trucks to happen in the vacinity of these powerlines. All plant to remain at a minimum approach distances to powerlines. Up to 132,000 volte = 3m: 132,000 - 330,000 volte = 6m. Above 330,000 = 8m.	Tiger Tails to be installed by relevant authority as a visual reminder. Install heightfocation indicators. Competent Spotter to have positive communication with plant (UHF radios) and observe plant movements where design envelope has be potential to reach doce that an interes to power fines. Operator to have working inktrand electrical services training, histall signage as visual reminder. Non conclucive tag lines to be used to control act Auren device to be installed or lower care to indicate location float. Non-considuel height aniverses automatics and valisity. Second line (Optios) sits below power line and non-conductive height asley buring below Option line. "Overhead Lines" warming sign. En option of the care sub Plan.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction West COP: Hour In manage work health and addry risks COP. Work Health and addrey risks COP. Work Health and addrey consultation, coordination and cooperation COP. PBS Stately Guide Managing the risks of plant in the workplace COP. Managing electrical risks in the workplace COP

1			1				PBS Project Risk Register (PRR)					
	PBS Project Risk	< Register		Word Col	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	_
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
					Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location:	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in	L2-L7 if you	
Issue Number:	Rev 4				NSW requirement only	EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	add rows to ensur correct	e range is	
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Tower Crane		4.6.1;4.6.2;	Crodible Multiple Crane &/or Satellite Boom/Concrete Pump Collision	B Likely	5 Very Large	20	Dogman and Querators to sign into Crane Management Sub Plan. Communication meeting to be held with other operators (i.e. concrete boom) and crane crews daily before work begins on the site for the shift.	An automated anti-collision or zoning system must be installed on the tower oranes and ganity oranes when multiple crases are planned to be in use and their planned tilting radius will interface with or overlap with other crases. Crase crease are to be specifically tradient in the operating between of the crase including the use and maintenance of the arti-collision or zoning system fitted to the crase. Specification of the crass of the article crass of the article system of the comparison of any specification of the article system of the article system of the crass of the specification of the article system of the article system of crass and the provided and an esticitation procedure in place and utilised prior to terving into another crase's radius. Decidated bits and backup landline intercom system intalled between 2 crass or expension.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety risks COP, Work and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Tower Crane		4.6.5	Security	B Likely	3 Medium	12		Access saylens for all proceed lower cranes must have offset liaddens desgined to prevent the fall from height py sperson whils dimining or descending. Malon sensor to be installed inside lower crane crases door for security purposes. Minimum 7 meter ain-Chim branitaria lo be installed and have of tower crate and at every level where access is possible to prevert installoristical access. Door to lower crane base most be set door gain to prepar low.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6; 4.1.5; 4.1.7	Fall of Person	A Almost Certain	4 Large	20	Delivery drivers or workers are NOT is access the back of husks unless; "There is a handrall system is provided by the project and, "A portable handrall system is provided by the project and, "There once use of a portable kandrall system with the head contain measure. Plants or consult of these containers and the provided by the project and plants of context and these containers and the plants and the plants and the plants of context and these containers and the plants and the plants and the context and these containers and these containers and the plants and the plants of context and the plants and the plants and the plants and the plants and the context and these containers and the plants and the plants and the plants and the context and these containers and the plants and the plants and the plants and the plants and the plants and the plants and the plants and the plants and the plants and the plants and the plants and t	For Erection, Dismaritle and Maintenance of the Tower Crane - Use of Harness Work Permit to be issued. Harness to be impected daily before use and maintained as per manufacture specifications. Person with working at heights loads to conduct works involving use of harness only.	3. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
	Is carried out on, in or adjacent to a road that is in use by traffic other than pedestrians	4.3.1; 4.3.3; 4.3.2	Hit by Moving Vehicular Traffic	A Almost Certain	4 Large	20	Consultant holding correct looked to provide Traffic Management Pale (including Traffic Corter) Pales) which is specific to here wich so relis. Signage and Davices be set up in accordance with approved Traffic Cortorid Plan by workers with hold the correct tackets. Traffic Cortoria plan is a device as a to be checked where an exapter or have a scenario and a times. Traffic cortor align and devices are to be checked of the second plan and the scenario and a scenario a	Physical Barrier which will bate the force of a vehicle crashing hito II to be set up in between workers and road users. Signage to be held down with weights and/or other appropriate methods to prevent hem- blowing over. Taffic Craftol Plan to capter and provide instruction on signage-whicheselstamplant movements, traffic controller positions and traffic control equipment to be used.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, AS 1742
	Is carried out on, in or adjacent to a road that is in use by traffic other than pedestrians	4.3.1; 4.3.3; 4.3.2	Impact on current Traffic Conditions	C Possible	5 Very Large	15	Traillic Management and Traillic Control Plan to be in place which has been selected or created by a competent person. Traillic Control signage and devices to be installed as per approved TCP.	No contractor parking on site. Workers are advised to utilize public transport. Work Zone on the road is only to be utilized for delivery of material and tools.	5. Substitution	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, AS 1742
	Is carried out on, in or adjacent to a road that is in use by traffic other than pedestrians; is carried out in an area at a workplace which therre is any movement of powered mobile plant.	4.3.1; 4.3.3; 4.3.2	Vehicle / Plant Collision	C Possible	5 Very Large	15	Traffic Management and Traffic Control Plan to be in place which has been selected or created by a person holding the context fickels if works conducted outside PBS Perimeter Ferroing, Traffic Control signage and devices to be installed as per approved TCP. Traffic control sign and devices are to be excleded ability Continements with the second as per CDP and content using INST Traffic hipsection. Schedular, Reversing plant must be managed by a spotter or adequate todation barriers.	Traffic and Vehicle Management Sub Plan to be in place. No contractor particing on sile. All plant and equipment on sile to have flashing lights or hazard lights operating.	2. Administration	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safely Guide, AS 1742
Tree Trimming and Removal Work	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6; 4.1.5; 4.1.7	Fall of Person	B Likely	4 Large	16	Subably qualified and experienced person only to climb tee's and removelop tree branches. Qualified Autobrists to confirm the subable for climbing. Use of Harness Work Permit to be issued. Harness to be inspected daily before use and maintained as per manufacturer specifications. Ticketed Personnel required for operation of VDF. Harness to be worn and connected prior to buckte their paised. Harness to be inspected daily before use and maintained as per manufacturer specifications.		3. Engineering	SS/SM/FM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Tree Trimming and Removal Work		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	B Likely	4 Large	16	Tools to be on langeds when working above 2m dat risk. Physical barriers to be in place as an exclusion zone and must take into consideration the size, fail and bounce of materials and tools. Trained and competent operations (so per national surf of competency) to unversible the failing work only. Authorised person only to be in direct workcore.	Physical Barriers to be in place as an exclusion zone. Spotters in place at every possible entry point to prevent access to danger area.	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safely risks COP, Work health and safely consultation, coordination and cooperation COP, PBS Safely Guide
Tree Trimming and Removal Work		4.13.4	Damage to protected flora or fauna	C Possible	3 Medium	9	Tree Protection zones using robust barricating to be in place with signage. Flora and Fauna Management Sub Plan to be in place.	Timber batten protection to be placed directly onto the tree trunks in High Redestrian traffic areas (i.e. public locations in the street near PBS hoardings)	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Tree Trimming and Removal Work			Projectiles hitting personnel	C Possible	3 Medium	9	Corred PPE to be worn. Trained and competent operators of plant and equipment. All guards as per manufacture specifications are to be on chipping machines, chainsaws and general plant. Only specified treebranch sizes to be placed into chipping machines.	Physical Barriers to be in place as an exclusion zone. Spotters in place at every possible entry point to prevent access to danger area.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Tree Trimming and Removal Work		4.7.1;	Cuts and Lacerations	C Possible	4 Large	12	All guards to be filted to power tools. Only competent (as per national unit of competency) and trained operators to use chainsaw. Chainsaw should not be used above shoulder height. Select chainsaw with the shortest proclade be length to each work task understaine. Chainsaw to be operated and maintained in accordance with manufactures instructions. Chainsaw to be started on ievel ground and be server when pulling the starter.	228mm grinder permit to be issued when applicable	5. Substitution	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Use of Harness	Risk of Person Falling more than 2m	4.1.5; 4.1.6; 4.1.7	Fall of Person	B Likely	4 Large	16	Pediretal virid conditions must be assessed as subletile for works to commence and be continually monitored by competent periors. Engineering certification of all mote praints to be comfitmed. Work Supervisor to continn subability of rope support, protection and positioning. Rescue and Rescue ty to effective of in HT SWRS. Harmess work prime to be issues: Certification and positioning and tradysts training in the prime state and the state as a last react. Working all heights training required for all workers wearing harmeses in hist areat mode or all every use & family by a competence period. Therearing and the prime state and the state of the manufacture guidelines, inspected prior to exclu use & or regular basis by competent person (i.e. working all heights trained).		3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, Managing the risk of fall COP, PBS Safety Guide
Use of Harness		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	B Likely	4 Large	16	working an negrine interest Physical barriers to be in place as an exclusion zone to prevent access underneath the work area and must take into consideration the arc, fail and bounce of materials and tools. Signage to be installed. Tools to be on lanyards. Authorited person only to be in direct workzone. Daily clean of work area.	Traffic Control in place for public areas. Materials to be holded down on lanyards.	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety consultation, coordination and cooperation COP, Managing the risk of fail COP, PBS Safety Guide

1							PBS Project Risk Register (PRR)					
	< Register		Word Co	lour Legend	Acronym	Responsible Positions	Hierarchy of Control		Control Selections		PBS	
					Permits	SS	Sub-Contractor Supervisor	6. Elimination	2	%Controls ≥ Engineering	92%	
					Refer to another activity in the PRR	SM	Site Manager	5. Substitution	7	%Controls < Engineering	8%	
					Input required by the site team	FM	Foreman	4. Isolation	67			
Workplace Location:	1 Ulonga Ave, Greenwich				Reference to PBS document	CA	Contracts Administrator	3. Engineering	130	BCheck formulas in	L2-L7 if you	
Issue Number:	Rev 4		NSW requirement only		EHSQ	EHSQ Co-Ordinator / Manager	2. Administration	18	add rows to ensure range is correct			
Issue Date:	22/12/2020					PE/SE	Project Engineer / Site Engineer	1. PPE	1			Delete Legislation / Codes not applicable to your jurisdiction
Activity Description	High Risk Construction Work	GMR Reference	Hazard / Impact (Worst	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Waste Management	is carried out in an area which may	4.13.1;4.13.3; 4.13.4	Environmental Impact	BLikely	3 Medium	12		•The establishment of designed wasts handling areas, Based on the identification of key wasts types, identify day requirements for on-site separation, collection, of-site recycling and disposal. The correct darge and handling of avales mathelist handling liquick-Appointed disposal mathematics and a set of the set o	3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Control WH CO Protein and an arr event health and addry these COP Work metalshin and address address address address and cooperation COP. PBS Safety Guide
	have a contaminated or flammable atmosphere	4.10.2	Esposure to Hazardous Material	C Possible	3 Medium	9	Oblain and adhere to risk based assessment of SDS requirements for all products brought to site. Isolate and ventilate the area as applicable in the sol.		3. Engineering	SS/SM	Open	WHS And 2011, WHS Regulations 2017, Construction Work COP, Hore to manage work health and safety risks. COP, Work health and safety calculation, coordination and cooperation COP, PBS Safety Guide
Waterproofing	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6;	Fall of Person	C Possible	4 Large	12	Use scalfold / EWIP or platform ladders.		3. Engineering	SS / SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Windows	Risk of Person Falling more than 2m	4.1.1; 4.12; 4.1.3; 4.1.6;	Fall of Person	B Likely	4 Large	16	Scalifiel or EWP to be used. Platform ladders may be used on ground floor Delivery drivers or worker are NOT to access the back of trucks unless. "There is a target of the second of the back of the second of the term of the second of t	Totaleted Personnel required for operation of ENIP Manness to be worn and connected prior to bucket being raised. Harmess to be inspected daily holdre as and monitoriat as per naudaditure generations. Mohae sardied to be under Aley mohae scaled on wet are nave to be exceed by to Readed scaladitors. Los to arrive pre-tauto generation be more than the truck trug Internal edge protection needed when installing windows from inside the building on any level above ground.	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
Windows		4.2.1; 4.2.2; 4.2.3; 4.2.4;4.2.5;4.2.6	Hit by Falling Objects	B Likely	3 Medium	12	Approved, regularly inspected lifting frames to be used. Check suction and battery strength nois to lifting 1 applicable. Engineered lifting frames to be inspected annually by boiler maker or other competent person to ensure suitability for purpose and be recorded on plant and equipment register. Authorised person may to be in direct workcone.	Tods to be on lanyards when working above 2m fail risk. Physical barriers to be in place as an exclusion zone and must take into consideration the arc, fail and bounce of materials and tods. Area to be buried off with signage to prevert unauthorised access.	4. Isolation	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide
	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	4.3.2; 4.3.5;	Hit by Moving Plant	C Possible	3 Medium	9	No one is to approach plant unless confirmation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating. Mobile phones not be used when operating plant and equipment. Operator to be appropriately Trained / Toketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Accreas ways to be indirected to ensure no personnel indire operating areas. Outriggers of crane to be producted by intersy totals or imiliar to prevent oracits from ofter planet/velocide. Use Tgl unaverse when appropriate located tail by weight dor targe panel this in windy conditions. Dogma and Operator to sign into Crane Management do Plans. Spotter Operator Naver Section 2014 (Section 2014) (Section 2	4. Isolation	SS / SM	Open	WHS Act 2011, WHS Regulations 2017. Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide, Managing the risks of plant in the workplace COP
Windows		4.7.1;	Cuts and Lacerations	B Likely	2 Small	8	All guards to be fitted to power tools. All PPE requirements shall be assessed in the contractors HR SWMS	225mm grinder permit to be issued when applicable	3. Engineering	SS/SM	Open	WHS Act 2011, WHS Regulations 2017, Construction Work COP, How to manage work health and safety risks COP, Work health and safety consultation, coordination and cooperation COP, PBS Safety Guide