

PBS Project Risk Register

PBS Project Risk Register (PRR)



Workplace Location: MORAYFILED VILLAGE		Issue Number: B		Issue Date: 11/08/2021		Acronym	Responsible Positions	Hierarchy of Control	Control Selections		Delete Legislation / Codes not applicable to your jurisdiction
						SS	Sub-Contractor Supervisor	6. Elimination	3	%Controls ≥ Engineering 91%	
						SM	Site Manager	5. Substitution	6	%Controls < Engineering 9%	
						FM	Foreman	4. Isolation	70	βCheck formulas in L2-L7 if you add rows to ensure range is correct	
						CA	Contracts Administrator	3. Engineering	110		
						EHSQ	EHSQ Co-Ordinator	2. Administration	18		
						PE/SE	Project Engineer / Site Engineer	1. PPE	0		
Activity Description	High Risk Construction Work	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Abseiling outside structure perimeter	Risk of Person Falling more than 2m	Fall of Person	B Likely	4 Large	16	Potential wind conditions must be assessed as suitable for works to commence and be continually monitored by supervisor. Engineering certification of all anchor points to be confirmed. Qualified person to confirm suitability of rope support, protection and positioning. Emergency procedure to be referenced in HR SWMS. Harness work permit to be issued. Exclusion zone to be in place with signage at drop point.		3. Engineering	SS / SM	Open	WHS Act & Regulations 2011
Abseiling outside structure perimeter		Hit by Falling Objects	C Possible	3 Medium	9	Physical barriers to be in place as an exclusion zone to prevent access underneath the work area and must take into consideration the arc, fall and bounce of materials and tools. Signage to be installed. Tools to be on lanyards. Authorised person only to be in direct workzone.	Traffic Control in place for public areas. Materials to be hoisted down on lanyards.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2012
Air - Conditioning	Risk of Person Falling more than 2m	Fall of Person	C Possible	3 Medium	9	Platform ladders or EWP's are to be used in the first instance. Work trestles a minimum width of 450mm can be used. Step Ladders may only be used for minor works which take less than 15 minutes to complete and 3 points of contact must be maintained. Delivery drivers or workers are NOT to access the back of trucks unless; *There is a handrail system incorporated onto the back of the vehicle or, *A portable handrail system is provided by the project and, *The use of a portable loading bay platform would be the ideal control measure. When one or more of these controls are implemented, workers 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 building/balconies at least 3m or 1:1 ratio if a full perimeter screen/scaffold has been installed.	Ticketed Personnel required for operation of EWP. Harness to be worn and connected prior to bucket being raised. Harness to be inspected daily before use and maintained as per manufacturer specifications. Mobile scaffold to be used. Any mobile scaffold over 4m needs to be erected by a ticketed scaffolder.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2013
Air - Conditioning		Fire/Explosion	D Unlikely	3 Medium	6	Hot Works Permit to be in place. Area to be clear of combustible materials. Correct PPE to be worn. Flash back arrestors connected to all oxy sets.	225mm Grinder Permit to be in place	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2014
Air - Conditioning	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 to be used when operating plant and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside operating areas. Outriggers of crane to be protected by jersey kurbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Seat belts to be worn at all times where fitted. Refer to mobile crane operations activity in this PRR	4. Isolation	SS / SM / FM	Open	WHS Act & Regulations 2015
Air - Conditioning		Cuts and Lacerations	C Possible	2 Small	6	All guards to be fitted 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. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2016
Air - Conditioning		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 wire failure the load cannot fall. In addition, outriggers where fitted must be used, SWL must be clearly marked & only propriety attachments are used and only in accordance with manufacturers instructions.		3. Engineering	SS / SM	Open	WHS Act & Regulations 2017
Air - Conditioning		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 bunted off with signage to prevent unauthorised access.	4. Isolation	SS / SM / FM	Open	WHS Act & Regulations 2018
All Trades		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 PBS. Lead stands or insulated hooks must be used to elevate leads above head height.		3. Engineering	SS/SM	Open	WHS Act & Regulations 2019
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 straight. Bend the knees to lower the load then release the load to final position without over extending the back. Contractor to ensure all workers are inducted into the trade specific safe working procedures for manual handling. (eg subcontractor WHS Plan, Training Register.)	Use Mechanical Aids. Team Lifts to occur.	3. Engineering	SS/SM	Open	WHS Act & Regulations 2020
Concrete Coring	Risk of Person Falling more than 2m	Fall of Person	B Likely	4 Large	16	Platform ladders or EWP's are to be used in the first instance. Work trestles a minimum width of 450mm can be used. Step Ladders may only be used for minor works which take less than 15 minutes to complete and 3 points of contact must be maintained. Ladders to be stepped back from any edges of a building/balconies at least 3m or 1:1 ratio if a full perimeter screen/scaffold has been installed.	Catch deck to be installed underneath area being cored.	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2025

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						SS	Sub-Contractor Supervisor	6. Elimination	3	%Controls ≥ Engineering	91%	
						SM	Site Manager	5. Substitution	6	%Controls < Engineering	9%	
						FM	Foreman	4. Isolation	70			
						CA	Contracts Administrator	3. Engineering	110			
						EHSQ	EHSQ Co-Ordinator	2. Administration	18			
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Activity Description	High Risk Construction Work	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements	
Concrete Coring		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 bounce of materials and tools underneath the area being cored. Area to be bunted off with signage to prevent unauthorised access. Authorised person only to be in direct workzone.		4. Isolation	SS / SM	Open	WHS Act & Regulations 2026	
Concrete Coring	Carried out in an area that may have a contaminated atmosphere	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.	Use of Fans for internal risk. Power tools to have vacuum /water attachments	3. Engineering	SS / SM	Open	WHS Act & Regulations 2027	
Concrete Coring	Is carried out on or near energised electrical installations or services	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 under slab services.		3. Engineering	SS / SM / FM / SE / CA	Open	WHS Act & Regulations 2028	
Concrete Placement		Environmental Contamination from Spill of Hazardous Chemicals/Substances	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 & Regulations 2029	
Concrete Placement		Failure of Structure	D Unlikely	5 Very Large	10	Structural Engineer Certification to be received prior to pour for formwork deck. Hold 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 (i.e Formwork spotter)	Securing requirements, load points, bracing and fixing details must be verified to be in accordance with an approved design and include suitable structural fixings that account for wind load considerations based on locality.	4. Isolation	SS / SM / FM / SE / CA	Open	WHS Act & Regulations 2030	
Concrete Placement		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 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 & Regulations 2031	
Concrete Placement		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 & Regulations 2032	
Concrete Placement		Fatigue	C Possible	2 Small	6	Rotate work crews. Monitor number of workers and hours worked. Contractors to provide ways home for workers that may be too fatigued to drive home. Site to have designated rest areas. Min 10hr break between shifts.	Contractor to provide fatigue management plan.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2033	
Concrete Placement		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 i.e helicopters etc. Authorised person only to be in direct workzone.	Documented check to confirm suitable barrier in place with no gaps in containment screens / scaffold to prevent concrete slurry falling to ground.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2034	
Concrete Placement		Working in Cold, Inclement or Windy Weather	C Possible	2 Small	6	Heated amenities to be provided. Suitable Access / Egress to be provided to work areas. Concrete Placing Boom not to work outside the manufacturer's recommendations regards extreme 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 site open by PBS Site Manager/ EHS Committee to assess all access routes. Any unsuitable work areas are to be barricaded off with physical barrier until deemed safe to enter.	4. Isolation	SS / SM / HSR	Open	WHS Act & Regulations 2035	
Concrete Placement		Working in High Temperatures - Heat Stress/Heat Exhaustion	C Possible	2 Small	6	Sufficient quantities of cool drinking water is readily available close to work areas. Regularly rotate workers who perform more strenuous 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	WHS Act & Regulations 2036	
Concrete Placement	Carried out in an area that may have a contaminated atmosphere	Dust Inhalation	C Possible	2 Small	6	Internal Risk - P1/P2/P3 dust mask to be worn. External Risk - Constant Hosing down with water to be undertaken.	Use of Fans for internal risk. Power tools to have vacuum attachments	3. Engineering	SS / SM	Open	WHS Act & Regulations 2037	
Concrete Pump	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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. Outriggers must be set up on stable ground. Licenced operators to operate boom/satellite pumps only.	Penetration covers 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. Compaction test is required prior to set up of outriggers on disturbed soil. Outriggers of crane to be protected by jersey kurbs or similar to prevent contact from other plant/vehicles.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2038	
Concrete Pump		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 & Regulations 2039	

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Issue Date: 19/04/2021						SM	Site Manager	5. Substitution	6	%Controls < Engineering	9%	
						FM	Foreman	4. Isolation	70	βCheck formulas in L2-L7 if you add rows to ensure range is correct		
						CA	Contracts Administrator	3. Engineering	110			
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						PE/SE	Project Engineer / Site Engineer	1. PPE	0			
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Concrete Pump	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 & Regulations 2040	
Concrete Pump		Environmental Contamination from Spill of Hazardous Chemicals/Substances	C Possible	2 Small	6			4. Isolation	SS / SM	Open	WHS Act & Regulations 2041	
Concrete Pump		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 Boom not to work outside the manufacturer's recommendations regards extreme 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 site open by PBS Site Manager/ EHS Committee to assess all access routes. Any unsuitable work areas are to be barricaded off with physical barrier until deemed safe to enter.	4. Isolation	SS / SM / HSR	Open	WHS Act & Regulations 2042	
Concrete Pump		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 strenuous 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	WHS Act & Regulations 2043	
Confined Space	Risk of Person Falling more than 2m	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 fall.	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 handrails and midrails.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2044	
Confined Space	Is carried out in or near a confined space	Engulfment / Asphyxiation	B Likely	4 Large	16	Confined Space Entry Permit to be issued. Personnel entering confined space & observer both to hold evidence of confined space training. Positive communication to be maintained at all times (Le UHF radios). Bump test to be conducted on detector to confirm calibration and working order. The confined space then needs to be tested prior to any persons entering the space. Gas Detection to be conducted whilst worker inside confined space. Emergency Procedure to be documented in HR SWMS for the retrieval of injured person.	Breathing apparatus (P3) to be worn. No hot works to be conducted within the space.	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2045	
Demolition	Involves, or is likely to involve, the disturbance of asbestos	Dust Inhalation	C Possible	3 Medium	9	Correct PPE to be worn by workers during the removal process. All potential ACM and Hazardous Material to be removed and clearance certificate received from licenced assessor prior to demolition.	Asbestos Register to be requested off of the client. Competent person to inspect residential premises prior to demolition. Licenced person to conduct destructive testing and provide results prior to demolition.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2049	
Demolition	Risk of Person Falling more than 2m	Fall of Person	C Possible	4 Large	12	Site specific controls to be implemented in HR SWMS.	Catch scaffold to be erected. Minimum height of 900mm of fall protection from outer wall to remain for workers on suspended slab. EWP to be used.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2050	
Demolition	Demolition of an element of a structure that is load-bearing or otherwise related to the physical integrity of the structure	Uncontrolled Collapse of Structure	C Possible	3 Medium	9	Demolition Plan to be developed outlining sequence of demolition. Where applicable, any structural engineers sign-offs needs to be obtained. Physical Barriers to be in place as an exclusion zone to prevent unauthorised access. "Demolition in progress" signage to be installed. Only licenced contractors to perform works.	If structure is over 6m in height then PBS to notify Regulator in writing at least 5 days before commencing works.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2051	
Demolition		Hit by Falling Objects	C Possible	3 Medium	9	Demolition 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. "Demolition in progress" signage to be installed. Authorised person only to be in direct workzone.	Tools to be on lanyards when working above 2m fall risk. B Class Hoarding installation for public protection. Scaffold to be installed by a licenced scaffolder.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2052	
Demolition	Is carried out on or near pressurised gas distribution mains or piping; is carried out on or near chemical, fuel or refrigerant lines; is carried out on or near energised electrical installations or services	Contact with Live Existing Services	A Almost Certain	4 Large	20	PBS Isolation/Energisation Permit to be used. An Excavation Permit may also be needed. Any live services that remain inside PBS fence line above grade are to be identified using robust barricading and signage. DBYD to be reviewed by PBS and provided to Demolition Contractor. In ground services are to be visually marked.	As built 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 Act & Regulations 2053	
Demolition	Is carried out on or near energised electrical installations or services	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 = 3m. 132,000 - 330,000 volts = 6m. Above 330,000 = 8m.	Tiger Tails to be installed by relevant authority as a visual reminder. Install height/location indicators. Non conductive barrier to be installed between building/plant and power lines. Competent Spotter to have positive communication with plant (UHF radios) and observe plant movements when design envelope has the potential to reach closer than 3 metres to power lines. Install signage as visual reminder.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2054	
Demolition		Environmental Contamination from Spill of Hazardous Chemicals/Substances	C Possible	2 Small	6	Contractor to provide, and have readily available access to, a spill kit which is appropriately sized for the risk of spill when refuelling 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 SDS's for chemicals/substances that they are using on this project.		2. Administration	SS / SM	Open	WHS Act & Regulations 2055	

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						SM	Site Manager	5. Substitution	6	%Controls < Engineering 9%	
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						CA	Contracts Administrator	3. Engineering	110		
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Demolition		Dust Inhalation	C Possible	3 Medium	9	Internal Risk - P1/P2/P3 dust mask to be worn. External Risk - Constant Hosing down with water to be undertaken.	Use of Fans for internal risk.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2056
Demolition		Cuts and Lacerations	C Possible	1 Very Small	3	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 & Regulations 2057
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. Noise monitoring to be in place. Letter box drop to occur in neighbouring properties that might be affected by works. Stakeholder Communication Sub Plan to be in place. Noise Management Sub Plan to be in Place.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2058
Demolition		Destruction of Heritage Structures or Aboriginal relics or places	D Unlikely	2 Small	4	Heritage Management Sub Plan to be in Place. All heritage listed areas are to be barricaded off and/or signage displayed.		4. Isolation	SS / SM	Open	WHS Act & Regulations 2059
Electrical	Risk of Person Falling more than 2m	Fall of Person	C Possible	4 Large	12	Platform ladders or EWP's are to be used in the first instance. Work trestles a minimum width of 450mm can be used. Step Ladders may only be used for minor works which take less than 15 minutes to complete and 3 points of contact must be maintained. Delivery drivers or workers are NOT to access the back of trucks unless: *There is a handrail system incorporated onto the back of the vehicle or, *A portable handrail system is provided by the project and, *The use of a portable loading bay platform would be the ideal control measure. When one or more of these controls are implemented, workers 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 building/balconies at least 3m or 1:1 ratio if a full perimeter screen/scaffold has been installed.	Competent person to only use EWP below 11m. Ticketed Personnel required for operation of EWP over 11m. Harness to be worn and connected to boom EWP type prior to bucket being raised. Harness to be inspected daily before use and maintained as per manufacturer specifications. Mobile scaffold to be used. Any mobile scaffold over 4m needs to be erected by a ticketed scaffolder.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2060
Electrical	Is carried out on or near energised electrical installations or services	Electrocution	A Almost Certain	4 Large	20	Install RCD protected temporary boards at each level in nominated location being hard wired with 4mm cable (i.e no spider / wander boards allowed). Temporary boards must be physically secured to prevent overturn of board and front covers must be lockable. Temporary boards must have locked covers over circuit - breakers and RCDs associated with outgoing circuits apart from the main switch/isolating switch which must be readily accessible in the event of an emergency. Temp Boards must have signage installed on the front cover. Lock out/Tag out system to be used when isolation of electrical feed required. Isolation / Energisation Permit to be issued. Live temporary electrical cabling must be identified with yellow tag tape every 3m, where cabling is accessible. Competent Persons must carry out electrical inspection, testing and tagging of leads 3 monthly and a Qualified person must test RCD's monthly. All temporary electricity provided to socket (general purpose) outlets must be protected by a Residual Current Device. Each Temporary Board & all construction wiring installations must have a completed copy of ACT CES/ NSW CCEW / QLD CTC provided to PBS following each energisation. Electrical apprentices and trade assistants must work under the supervision of a licenced electrician at all times. All electrical work (other than inspection and testing of portable equipment) must be carried out by a licenced electrician & each electrician must verify their licence before they commence electrical works. Calibration of all testing equipment must be carried out as per manufacturers instructions. Cordless tools are encouraged to be used before power tools. Every cable end (i.e. awaiting termination) must be folded over itself and taped to prevent eye damage and electric shock (in the event of inadvertent energisation). RCD Trip Times to be recorded monthly on a register. HR SWMS to include emergency procedure.	Permanent House Distribution Boards displayed power supplier / Authority compliance labels which allow power connection area a higher control level confirming 'test and tag' requirements. Permanent House Distribution Boards must be fitted with mechanical protection to prevent leads being damaged before use by contractors.	4. Isolation	SS / SM / FM	Open	WHS Act & Regulations 2061
Electrical		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.	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 bunted off with signage to prevent unauthorised access.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2062
Electrical	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 to be used when operating plant and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside operating areas. Outriggers of crane to be protected by jersey kurbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Seat belts to be worn at all times where fitted. Refer to mobile crane operations activity and excavation activity in this PRR.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2063
Electrical		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 & Regulations 2064
Electrical		Fire/Explosion	B Likely	3 Medium	12	Hot 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.	225mm Grinder Permit to be in place	2. Administration	SS / SM / FM	Open	WHS Act & Regulations 2065
Electrical		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 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 & Regulations 2066

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						PE/SE	Project Engineer / Site Engineer	1. PPE	0		
Activity Description	High Risk Construction Work	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Emergency Planning		Emergency Risk Assessment	A Almost Certain	5 Very Large	21+	Fire extinguisher to be located at every exit point and/or every 500 square metres. Nurse Call point and/or air horn to be located every 500 square metres. Spill Kits to be located at all designated refuelling areas and hazardous chemicals / dangerous goods storage areas. Contractors are to provide their own spill kit relevant for their own, refuelling or other, activities.	PBS will have a multipurpose spill kit available as a back up. Site team to input size/litre of spill kit required relevant to the risk. 1 fire extinguisher (to suit class a,b,c & electrical fire) on each storey adjacent to each exit or temporary stairway at all times. After building reaches 12m effective height, required fire hydrants & fire hose reels must be operational every storey (except the 2 uppermost floors). Emergency Evacuation Map to be installed on every level / at each exit point.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2067
Excavation	Involves, or is likely to involve, the disturbance of asbestos	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 asbestos removalist and monitor tracking of waste to certified waste treatment plant. If Asbestos waste is over 10m2 then relevant authorities shall be notified and an Asbestos removalist shall be engaged. Any health monitoring shall be conducted as per the advice of the Asbestos removalist occupation hygienist. Test holes of soil conditions to be completed by consultant and results provided to PBS. All PPE requirements are to be worn i.e. Masks, jump suits. Decontamination of any exposed clothing/PPE shall be undertaken before leaving the effected area.	Contaminated areas to be bunted off using physical barriers and signage installed. Plastic to be installed over contaminated areas to prevent risk of dust arising until removal process is initiated. All workers to hold asbestos awareness training.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2068
Excavation	Is carried out on or near pressurised gas distribution mains or piping; is carried out on or near energised electrical installations or services	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 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 1m of a known live service unless EHSQ Manager has been consulted	As built 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 digging every 5m to determine direction of service. Energise/isolate Permit may also be required.	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2069
Excavation	Is carried out in or near a shaft or trench with an excavated depth greater than 1.5 metres	Collapse of Excavation / Trenching	A Almost Certain	4 Large	20	Excavation Permit required when penetrating the ground 200mm or more. Excavation / Trench must be either benched, battered, shored or a combination of all if deeper than 1.5m; otherwise proceed as per Geotech report requirements. Any amendments outside geotech report must be signed off by relevant qualified engineer prior to works occurring. Physical Barrier to be installed along top of excavation / trench to prevent plant / vehicles entering the zone of influence. Any spoil must not be stored within zone of influence and must be stored on down slope side.	Shoring Boxes to provide suitable access in/out of excavation. Adjacent structures, roads and footpaths must be supported or protected to prevent collapse.	4. Isolation	SS / SM / FM	Open	WHS Act & Regulations 2070
Excavation	Risk of Person Falling more than 2m	Fall of Person	B Likely	4 Large	16	Visual barrier to be installed minimum of 2m back from edge of excavation or Physical barrier installed if closer than 2m to edge. Suitable access to be provided to excavation that does not expose workers to risk of fall. "Deep Excavation" signage to be installed around edge of excavation where deeper than 1.5m		3. Engineering	SS / SM	Open	WHS Act & Regulations 2071
Excavation	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	Hit by Moving Plant	B Likely	4 Large	16	When using an excavator - 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 plant. No one is to approach plant unless the bucket/arm has been lowered and confirmation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating. Mobile phones not to be used when operating plant and equipment.	Exclusion zone to be in place to prevent unauthorised entry to work area.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2072
Excavation	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	Hit by Falling Objects	C Possible	3 Medium	9	Any spoil must be stored at least 1m back from edge and on down slope side. All lifting gear is to be maintained as per manufacturer specifications and inspected daily by a competent person - Synthetic slings are to be checked 3 monthly and documented on a register. Chains are to be tested yearly and documented on a register. The SWL of lifting equipment is not to be exceeded. Weight of load to be lifted to be predetermined by a qualified person and marked on load. Selection of sling & slinging techniques for load is predetermined by a competent person. Lifting points are to be predetermined by a competent person and marked on the load. Standard lifting procedures must be documented within HR SWMS. Authorised person only to be in direct workzone.	Physical Barriers to be in place around edge of excavation to prevent the fall 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 & Regulations 2073
Excavation	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	Plant Over-Turning	C Possible	4 Large	12	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 SWL 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 sizable penetration, load & point limits to be displayed.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2074
Excavation		Fire/Explosion when refuelling plant and equipment	C Possible	3 Medium	9	Hazardous 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 combustible material.	Designated refuelling area to be identified with signage on site. Hazardous Chemicals and Dangerous Goods Management Sub Plan to be in place.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2075
Excavation		Environmental Contamination from Spill of Hazardous Chemicals/Substances	C Possible	2 Small	6	Contractor to provide, and have readily available access to, a spill kit which is appropriately sized for the risk of spill when refuelling 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 SDS's for chemicals/substances that they are using on this project.		3. Engineering	SS / SM	Open	WHS Act & Regulations 2076
Excavation		Working in High Temperatures - Heat Stress/Heat Exhaustion	C Possible	2 Small	6	Sufficient quantities of cool drinking water is readily available close to work areas. Regularly rotate workers who perform more strenuous activities with less demanding tasks. Take regular work breaks in cooler areas such as air conditioned sheds.	Shade Covers to be installed @ designated smoking areas. Workers to wear broad brimmed hats and sunglasses for UV protection.	3. Engineering	SS / SM / HSR	Open	WHS Act & Regulations 2077
Excavation		Working in Cold, Inclement or Windy Weather	C Possible	2 Small	6	Heated amenities 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 conducted prior to gates of site open by PBS Site Manager/ EHS Committee to assess all access routes. Any unsuitable work areas are to be barricaded off with physical barrier until deemed safe to enter.	3. Engineering	SS / SM / HSR	Open	WHS Act & Regulations 2078
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. Noise monitoring to be in place. Letter box drop to occur in neighbouring properties that might be affected by works. Stakeholder Communication Sub Plan to be in place. Noise Management Sub Plan to be in Place.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2079

PBS Project Risk Register

PBS Project Risk Register (PRR)



Workplace Location:		MORAYFILED VILLAGE				Acronym	Responsible Positions	Hierarchy of Control	Control Selections		Delete Legislation / Codes not applicable to your jurisdiction	
Issue Number:	A					SS	Sub-Contractor Supervisor	6. Elimination	3	%Controls ≥ Engineering 91%		
Issue Date:	19/04/2021					SM	Site Manager	5. Substitution	6	%Controls < Engineering 9%		
Activity Description	High Risk Construction Work	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status		Legal and other requirements
Excavation		Unexpected Find	C Possible	2 Small	6	PBS Unexpected Finds protocol to be followed. Contractor to include unexpected finds protocol in their HR SWMS.		2. Administration	SS / SM	Open		WHS Act & Regulations 2080
Excavation		Damage to protected flora or fauna	C Possible	2 Small	6	Tree Protection zones using robust barricading 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 Pedestrian traffic areas (i.e. public locations in the street near PBS hoardings)	4. Isolation	SS / SM	Open	WHS Act & Regulations 2081	
Fencing	Is carried out on or near pressurised gas distribution mains or piping; is carried out on or near energised electrical installations or services	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 1m of a known live service unless EHSQ Manager has been consulted	As built 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 digging every 5m to determine direction of service. . Energise/Isolate Permit may also be required.	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2082	
Fencing		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 AS4687 requirements. Handover to be received from contractor that installs fence to confirm installation to Australian standards and manufacturer requirements.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2083	
Fencing		Fire/Explosion	D Unlikely	2 Small	4	Hot Works Permit to be in place. Area to be clear of combustible materials. Correct PPE to be worn.	225mm Grinder Permit to be in place	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2084	
Fire Services	Risk of Person Falling more than 2m	Fall of Person	D Unlikely	4 Large	8	Platform ladders or EWP's are to be used in the first instance. Work trestles a minimum width of 450mm can be used. Step Ladders may only be used for minor works which take less than 15 minutes to complete and 3 points of contact must be maintained. Delivery drivers or workers are NOT to access the back of trucks unless: *There is a handrail system incorporated onto the back of the vehicle or, *A portable handrail system is provided by the project and, *The use of a portable loading bay platform would be the ideal control measure. When one or more of these controls are implemented, workers 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 building/balconies at least 3m or 1:1 ratio if a full perimeter screen/scaffold has been installed.	Ticketed Personnel required for operation of EWP. Harness to be worn and connected prior to bucket being raised. Harness to be inspected daily before use and maintained as per manufacturer specifications. Mobile scaffold to be used. Any mobile scaffold over 4m needs to be erected by a ticketed scaffolder.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2085	
Fire Services		Fire/Explosion	B Likely	3 Medium	12	Hot Works Permit to be in place. Area to be clear of combustible materials. Correct PPE to be worn. Flash back arrestors to all oxy sets. Isolation/Energisation Permit to be issued.	225mm Grinder Permit to be in place	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2086	
Fire Services	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 to be used when operating plant and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside operating areas. Outriggers of crane to be protected by jersey curbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Seat belts to be worn at all times where fitted. Refer to mobile crane operations activity in this PRR.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2087	
Fire Services		Cuts and Lacerations	D Unlikely	1 Very Small	2	All guards to be fitted 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 toolbox. Explosive Powered Tool charges must be stored in a locked metal box 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 & Regulations 2088	
Fire Services		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 & Regulations 2089	
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 & Regulations 2090	
Formwork	Risk of Person Falling more than 2m	Fall of Person	A Almost Certain	4 Large	20	Cast/Embed 4mm mesh into larger penetrations. Fixed cover to be on all penetrations over 125mm diameter. All penetration covers to be identified similar to "Danger Penetration Below". If sizeable penetrations are located in areas where plant &/or equipment is likely to be used (eg scissor lift, pallet trolley, forklift), secured covers to be of sufficient strength with load & point load limits displayed. Platform Ladder or work platforms of 450mm minimum width to be used. Physical barrier and signage must be in place to prevent unauthorised personnel from entering restricted area when working on leading edges (i.e formworkers only).	No one is to stand on truck tray unless it has hand rails in place. Minimum of 1.8m lazy joists to surround formworkers working on leading edges at all times. Dinos/AFS to have extra 1m in length ordered and to be erected and braced prior to suspended deck so it can act as a hand rail. Two access ways to be clearly defined under deck and free of all obstructions / slip, trip hazards at all times. Crash deck to be installed under all leading edges.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2091	
Formwork		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 materials/tools falling over 2 metres exists. This exclusion zone must take into consideration the arc, fall and bounce of materials & tools. Stripping areas must have barriers and signage in place to prevent unauthorised access. Authorised person only to be in direct workzone.	Structural engineer to provide documented authorisation for all formwork shutter lifting lugs.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2092	
Formwork		Failure of Structure	B Likely	5 Very Large	20	Structural engineer to provide documented authorisation prior to concrete pour & stripping. Engineer to include in drawing or provide written instruction where all load points are on deck. Where material is designed to an international or another standard, engineer must certify that it conforms to relevant Australian standard. Evidence verifying formwork sheets conform to Australian Standards must be kept on site. Provide Formwork Documentation in accordance with Section 2.4 of AS3610.1-2010. Hold Point - PBS pre-pour checklist to be completed prior to pouring any decks.	Formwork framing to be protected against impact from moving plant & equipment.	3. Engineering	SS / SM / FM / SE / CA	Open	WHS Act & Regulations 2093	
Formwork		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 timbers 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 & Regulations 2094	
Formwork	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 to be used when operating plant and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside crane operating areas. Outriggers of crane to be protected by jersey curbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Refer to mobile crane operations activity in this PRR.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2095	
Hoarding	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	Hit by Falling Objects	C Possible	4 Large	12	All lifting gear is to be maintained as per manufacturer specifications and inspected daily by a competent person - Synthetic slings are to be checked 3 monthly and documented on a register. Chains are to be tested yearly and documented on a register. The SWL of lifting equipment is not to be exceeded. Weight of load to be lifted to be predetermined by a competent person and marked on load. Selection of sling & slinging techniques for load is predetermined by a competent person. Lifting points are to be predetermined by a competent person and marked on the load. Standard lifting procedures must be documented within HR SWMS. Install Hoarding as detailed on Hoarding Plan (showing dimensions and location on site). Authorised person only to be in direct workzone. Authorised person only to be in direct workzone.	Exclusion zone to be in place to prevent unauthorised entry to work area. Footpath to be closed off and traffic control in place to re route pedestrians as per Traffic Control Plan	4. Isolation	SS / SM	Open	WHS Act & Regulations 2104	

PBS Project Risk Register

PBS Project Risk Register (PRR)



Workplace Location: MORAYFILED VILLAGE		Issue Number: A		Issue Date: 19/04/2021		Acronym	Responsible Positions	Hierarchy of Control	Control Selections		Delete Legislation / Codes not applicable to your jurisdiction
						SS	Sub-Contractor Supervisor	6. Elimination	3	%Controls ≥ Engineering 91%	
						SM	Site Manager	5. Substitution	6	%Controls < Engineering 9%	
						FM	Foreman	4. Isolation	70		
						CA	Contracts Administrator	3. Engineering	110	βCheck formulas in L2-L7 if you add rows to ensure range is correct	
						EHSQ	EHSQ Co-Ordinator	2. Administration	18		
						PE/SE	Project Engineer / Site Engineer	1. PPE	0		
Activity Description	High Risk Construction Work	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status	Legal and other requirements
Hoarding	Risk of Person Falling more than 2m	Fall of Person	B Likely	4 Large	16	Platform Ladders to be used. Delivery drivers or workers are NOT to access the back of trucks unless: *There is a handrail system incorporated onto the back of the vehicle or, *A portable handrail system is provided by the project and, *The use of a portable loading bay platform would be the ideal control measure. When one or more of these controls are implemented, workers may use the access ladder and maintain 3 points of contact when ascending or descending.	Use of Harness Work Permit to be issued. Harness to be inspected daily before use and maintained as per manufacturer specifications. Person with working at heights ticket to conduct works involving use of harness only.	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2105
Hoarding	Is carried out on, in or adjacent to a road that is in use by traffic other than pedestrians	Hit by Moving Vehicular Traffic	C Possible	4 Large	12	Consultant holding correct tickets to provide Traffic Management Plan (including Traffic Control Plan) which is specific to the works on site. Signage and Devices to be set up in accordance with approved Traffic Control Plan by workers who hold the correct tickets. Traffic Controllers to position themselves where an escape route is accessible at all times. Traffic control signs and devices are to be checked daily to confirm they are still erected as per TCP and documented using PBS Traffic Controls Daily Checklist	Work Vehicles to be set up in approved work zone. Traffic Control Signage and Devices to be implemented as per approved traffic control plan.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2106
Landscaping	Is carried out on or near pressurised gas distribution mains or piping; is carried out on or near energised electrical installations or services	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 1m of a known live service unless EHSQ Manager has been consulted	As built 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 digging every 5m to determine direction of service. Energise/Isolate Permit may also be required.	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2113
Landscaping	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 plant. No one is to approach plant unless the bucket/arm has been lowered and confirmation has been received by the operator that it is ok to approach. All plant to have flashing beacons operating. Mobile phones not to be used when operating plant and equipment.	Exclusion zone to be in place to prevent unauthorised entry to work area. Emergency stop button to be applied to the machine.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2114
Landscaping	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 / trench to prevent plant / vehicles entering the zone of influence. The SWL 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 sizable penetration, load & point limits to be displayed.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2115
Landscaping		Fire/Explosion when refuelling plant and equipment	C Possible	4 Large	12	Hazardous 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 combustible material.	Designated refuelling area to be identified with signage on site. Hazardous Chemicals and Dangerous Goods Management Sub Plan to be in place.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2116
Landscaping		Environmental Contamination from Spill of Hazardous Chemicals/Substances	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 refuelling 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 SDS's for chemicals/substances that they are using on this project.		2. Administration	SS / SM	Open	WHS Act & Regulations 2117
Landscaping	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	Hit by Falling Objects	D Unlikely	4 Large	8	All lifting gear is to be maintained as per manufacturer specifications and inspected daily by a competent person - Synthetic slings are to be checked 3 monthly and documented on a register. Chains are to be tested yearly and documented on a register. The SWL of lifting equipment is not to be exceeded. Where a dogman is not available - Weight of load to be lifted to be predetermined by a competent person and marked on load. Selection of sling & slinging techniques for load is predetermined by a competent person. Lifting points are to be predetermined by a competent person and marked on the load. Standard lifting procedures must be documented within HR SWMS. Authorised person only to be in direct workzone.		3. Engineering	SS / SM	Open	WHS Act & Regulations 2118
Landscaping		Working in High Temperatures - Heat Stress/Heat Exhaustion	E Rare	2 Small	2	Sufficient quantities of cool drinking water is readily available close to work areas. Regularly rotate workers who perform more strenuous 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	WHS Act & Regulations 2119
Landscaping		Working in Cold, Inclement or Windy Weather	E Rare	2 Small	2	Heated amenities 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 conducted prior to gates of site open by PBS Site Manager/ EHS Committee to assess all access routes. Any unsuitable work areas are to be barricaded off with physical barrier until deemed safe to enter.	3. Engineering	SS / SM / HSR	Open	WHS Act & Regulations 2120
Mobile Crane Operations (includes Vehicle Mounted Crane/Telehandler/Franna/Crawler)	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 operator that it is ok to approach. All plant to have flashing beacons operating. Mobile phones not to be used when operating plant and equipment. Dogman and Operator to sign into Crane Management Sub Plan. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside crane operating areas. Outriggers of crane to be protected by jersey kurbs or similar to prevent contact from other plant/vehicles.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2133
Mobile Crane Operations (includes Vehicle Mounted Crane/Telehandler/Franna/Crawler)		Hit by Falling Objects	B Likely	4 Large	16	Dogman and Operator to sign into Crane Management Sub Plan. All lifting gear is to be maintained as per manufacturer specifications and inspected daily by a competent person - Synthetic slings are to be checked 3 monthly and documented on a register. Chains are to be tested 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 &/or large panel lifts in windy conditions	3. Engineering	SS / SM	Open	WHS Act & Regulations 2134
Mobile Crane Operations (includes Vehicle Mounted Crane/Telehandler/Franna/Crawler)	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 fitted. The SWL of the plant and its attachments is not to be exceeded. Set up in an area that is approved by PBS Site Manager. Lift study to be completed for any loads 20 Tonne or when expecting to use crane over 95% capacity. Plant is not to set up or traverse within the zone of influence of a service trench or on a service trench. Outriggers must be set up on stable ground.	Penetration covers 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. Crane to work lower than 95% capacity. Compaction test is required prior to set up of outriggers on disturbed soil. Routes for pick and carry operations to be assessed and designated by the PBS Site Manager.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2135
Mobile Crane Operations (includes Vehicle Mounted Crane/Telehandler/Franna/Crawler)	Is carried out on or near energised electrical installations or services	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 vicinity 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 height/location indicators. Non conductive barrier to be installed between plant and power lines. Competent Spotter to have positive communication with plant (UHF radios) and observe plant movements when design envelope has the potential to reach closer than 3 metres to power lines. Install signage as visual reminder. Non conductive tag lines to be used to control load.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2136

PBS Project Risk Register

PBS Project Risk Register (PRR)



Workplace Location:		MORAYFILED VILLAGE		Acronym	Responsible Positions		Hierarchy of Control		Control Selections		Delete Legislation / Codes not applicable to your jurisdiction	
Issue Number:	A			SS	Sub-Contractor Supervisor		6. Elimination	3	%Controls ≥ Engineering	91%		
Issue Date:	19/04/2021			SM	Site Manager		5. Substitution	6	%Controls < Engineering	9%		
Activity Description	High Risk Construction Work	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Mandatory Control Measures	Site Specific Control Measures	Hierarchy of Control (Highest Level Control)	Responsible	Status		Legal and other requirements
Mobile Crane Operations (includes Vehicle Mounted Crane/Telehandler/Franma/Crawler)		Plant Failure	C Possible	4 Large	12	All lifting gear is to be maintained as per manufacturer specifications and inspected daily by a competent person - Synthetic slings are to be checked 3 monthly and documented on a register. Chains are to be tested 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	WHS Act & Regulations 2137	
Plumbing	Risk of Person Falling more than 2m	Fall of Person	C Possible	4 Large	12	Platform ladders or EWP's are to be used in the first instance. Work trestles a minimum width of 450mm can be used. Step Ladders may only be used for minor works which take less than 15 minutes to complete and 3 points of contact must be maintained. Delivery drivers or workers are NOT to access the back of trucks unless: *There is a handrail system incorporated onto the back of the vehicle or, *A portable handrail system is provided by the project and, *The use of a portable loading bay platform would be the ideal control measure. When one or more of these controls are implemented, workers 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 building/balconies at least 3m or 1:1 ratio if a full perimeter screen/scaffold has been installed.	Ticketed Personnel required for operation of EWP. Harness to be worn and connected prior to bucket being raised. Harness to be inspected daily before use and maintained as per manufacturer specifications. Mobile scaffold to be used. Any mobile scaffold over 4m needs to be erected by a ticketed scaffolder.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2148	
Plumbing		Fire/Explosion	C Possible	3 Medium	9	Hot Works Permit to be in place. Area to be clear of combustible materials. Correct PPE to be worn. Flash back arrestors to all oxy sets.	Flash/welding Screens to be installed to protect the public and other workers.	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2149	
Plumbing		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 & Regulations 2150	
Plumbing	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 plant and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside operating areas. Outriggers of crane to be protected by jersey kurbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Seat belts to be worn at all times where fitted. Refer to mobile crane operations activity and excavation activity in this PRR.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2151	
Plumbing		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 tools. Area to be bunted off with signage to prevent unauthorised access.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2152	
Plumbing		Environmental Contamination from Spill of Hazardous Chemicals/Substances	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 refuelling 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 SDS's for chemicals/substances that they are using on this project.		3. Engineering	SS / SM	Open	WHS Act & Regulations 2153	
Plumbing		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 & Regulations 2154	
Roof Hand-Rail Installation	Risk of Person Falling more than 2m	Fall of Person	A Almost Certain	4 Large	20	Erected in accordance with suppliers installation manual to full perimeter of structure. Handover Certificate to be completed and provided to PBS. Scaff Tag (or equivalent signage) to be displayed on rail adjacent to entry point. HR SWMS to be developed by installer.	Entry point to roof to ensure there is no exposure to worker of risk of fall (swing gate at top of ladder or similar) EWP, Platform ladder, Scaffold, snappy scaffold or painters tressel system to be used for the install of roof perimeter hand-rail system.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2168	
Roof Rail Installation		Hit by Falling Objects	B Likely	4 Large	16	If no continuous toe board installed, a barricaded isolation zone must be in place below where person are working. Authorised person only to be in direct workzone.		4. Isolation	SS / SM	Open	WHS Act & Regulations 2169	
Roofing	Risk of Person Falling more than 2m	Fall of Person	A Almost Certain	4 Large	20	Heavy Duty sarking or safety mesh with adequate overlap and tie points or intermediate battens must be installed. Authorised access to roof only. Delivery drivers or workers are NOT to access the back of trucks unless: *There is a handrail system incorporated onto the back of the vehicle or, *A portable handrail system is provided by the project and, *The use of a portable loading bay platform would be the ideal control measure. When one or more of these controls are implemented, workers may use the access ladder and maintain 3 points of contact when ascending or descending.	Safety Mesh to be signed off by competent person and handover to be given to PBS. Voids to be adequately protected prior to accessing roof level (i.e skyights) Where the slope of a roof exceeds 35 degrees the roof is an inappropriate surface to stand on, even with guardrailling or a catch platform. In these circumstances, roof workers need a system to prevent both sliding and falling from the perimeter and this must be documented in the HR SWMS. Use of Harness Work Permit to be issued. Harness to be inspected daily before use and maintained as per manufacturer specifications. Person with working at heights ticket to conduct works involving use of harness only. Safety catch netting installed under potential fall zones. Perimeter scaffolding installed around the perimeter.	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2170	
Roofing		Hit by Falling Objects	B Likely	4 Large	16	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 bunted off with signage to prevent unauthorised access.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2171	
Roofing		Noise	D Unlikely	2 Small	4	Hearing Protection to be worn.	Signage to be in place when using Explosive Power Tools.	2. Administration	SS / SM	Open	WHS Act & Regulations 2172	
Roofing		Cuts and Lacerations	E Rare	2 Small	2	All guards to be fitted 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 toolbox. Explosive Powered Tool charges must be stored in a locked metal box 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 & Regulations 2173	
Roofing	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	Hit by Moving Plant	D Unlikely	4 Large	8	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 / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside operating areas. Outriggers of crane to be protected by jersey kurbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Seat belts to be worn at all times where fitted. Refer to mobile crane operations activity	4. Isolation	SS / SM	Open	WHS Act & Regulations 2174	
Scaffold	Risk of Person Falling more than 2m	Fall of Person	A Almost Certain	4 Large	20	Non - compliant areas of scaffold are to be isolated with signage (i.e Danger - incomplete scaffold). Sequential erection / dismantle method to ensure fall prevention for scaffolders at all times. Scaffold working platforms to be min 450mm wide with access & handrails above 1.5m fall. No trades to modify any scaffold components / arrangements nor overload platforms.	Delivery drivers or workers are NOT to access the back of trucks unless: *There is a handrail system incorporated onto the back of the vehicle or, *A portable handrail system is provided by the project and, *The use of a portable loading bay platform would be the ideal control measure. When one or more of these controls are implemented, workers may use the access ladder and maintain 3 points of contact when ascending or descending.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2175	
Scaffold		Hit by Falling Objects	A Almost Certain	4 Large	20	Exclusion zone using physical barrier to be in place for erection / dismantle / altering of scaffold activities. 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 workzone.	Working platforms are to be fully enclosed to prevent objects / materials falling through. The resultant gap between the finished face of the building and the platform edge or adjacent horizontal member of the scaffold does not exceed 100mm.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2176	
Scaffold		Failure of Structure	A Almost Certain	5 Very Large	21+	Ensure that person's are nominated to co-ordinate number of scaffold working decks (i.e close off access to current non working decks) & material loading on each deck at any one time. Scaffold to be erected in accordance with manufacturer's instructions &/or in accordance with approved scaffold plan. Handover certificate to be provided and scaff tags to be updated at each access point / change of duty loading every 30 days. No trades to modify any scaffold components / arrangements nor overload platforms. Allowable loading limits to be signed or marked on scaffold decks. Provide protection to scaffold components adjacent to areas where mobile plant is operating.	Use designated loading platforms with loading limit signage displayed.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2177	

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Issue Number: A		SS	Sub-Contractor Supervisor			6. Elimination	3	%Controls ≥ Engineering	91%		
Issue Date: 19/04/2021		SM	Site Manager			5. Substitution	6	%Controls < Engineering	9%		
		FM	Foreman			4. Isolation	70	βCheck formulas in L2-L7 if you add rows to ensure range is correct			
		CA	Contracts Administrator			3. Engineering	110				
		EHSQ	EHSQ Co-Ordinator			2. Administration	18				
		PE/SE	Project Engineer / Site Engineer			1. PPE	0				
Activity Description	High Risk Construction Work	Hazard / Impact (Worst Credible Consequence)	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 electrical installations or services	Contact with Overhead Power Lines	B Likely	5 Very Large	20	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 = 3m. 132,000 - 330,000 volts = 6m. Above 330,000 = 8m.	Tiger Tails to be installed by relevant authority as a visual reminder. Install height/location indicators. Non conductive barrier to be installed between scaffold and power lines. Install signage as visual reminder. Isolate overhead powerlines prior to erection/dismantle of scaffold	3. Engineering	SS / SM	Open	WHS Act & Regulations 2178
Scaffold	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 to be used when operating plant and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside crane operating areas. Outriggers of crane to be protected by jersey kerbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Seat belts to be worn if available. Refer to mobile crane operations activity in this PRR.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2179
Scaffold		Working in High Temperatures - Heat Stress/Heat Exhaustion	D Unlikely	2 Small	4	Sufficient quantities of cool drinking water is readily available close to work areas. Regularly rotate workers who perform more strenuous 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	WHS Act & Regulations 2180
Scaffold		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 site open by PBS Site Manager/ EHS Committee to assess all access routes. Any unsuitable work areas are to be barricaded off with physical barrier until deemed safe to enter.	4. Isolation	SS / SM / HSR	Open	WHS Act & Regulations 2181
Steel Fixing	Risk of Person Falling more than 2m	Fall of Person	B Likely	4 Large	16	Cast/Embed 4mm mesh into larger penetrations. Fixed cover to be on all penetrations over 125mm diameter. All penetration covers to be identified similar to "Danger Penetration Below". If sizeable penetrations are located in areas where plant &/or equipment is likely to be used (eg scissor lift, pallet trolley, forklift), secured covers to be of sufficient strength with load limits displayed. Platform ladder to be used when constructing lift shafts. Scaffold or the like, platforms with edge protection to be used when constructing lift shafts or vertical walls.	No one is to stand on truck tray unless it has hand rails in place. Platform Ladder or work trestles of 450mm width to be used. Mobile scaffold to be used. Any mobile scaffold over 4m needs to be erected by a ticketed scaffolder.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2187
Steel Fixing	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 to be used when operating plant and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside crane operating areas. Outriggers of crane to be protected by jersey kerbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Seat belts to be worn if available. Refer to mobile crane operations activity in this PRR.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2188
Steel Fixing		Fire/Explosion	C Possible	3 Medium	9	Hot Works Permit to be in place. Area to be clear of combustible materials. Correct PPE to be worn.	Flashwelding Screens to be installed to protect the public and other workers.	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2189
Steel Fixing		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 sharp steel edges.	225mm grinder permit to be issued when applicable	3. Engineering	SS / SM / FM	Open	WHS Act & Regulations 2190
Structural Steel	Risk of Person Falling more than 2m	Fall of Person	B Likely	4 Large	16	EWP or Scaffold to be used for access for install of structural steel. Platform ladders may also be used on even surfaces. Delivery drivers or workers are NOT to access the back of trucks unless: *There is a handrail system incorporated onto the back of the vehicle or, *A portable handrail system is provided by the project and, *The use of a portable loading bay platform would be the ideal control measure. When one or more of these controls are implemented, workers may use the access ladder and maintain 3 points of contact when ascending or descending.	Mobile scaffold to be used. Any mobile scaffold over 4m needs to be erected by a ticketed scaffolder. Ticketed Personnel required for operation of EWP. Harness to be worn and connected prior to bucket being raised. Harness to be inspected daily before use and maintained as per manufacturer specifications.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2191
Structural Steel		Fire/Explosion	A Almost Certain	3 Medium	15	Hot Works Permit to be in place. Area to be clear of combustible materials. Correct PPE to be worn. Flash back arrestors to all oxy sets.	Flashwelding 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 & Regulations 2192
Structural Steel		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 & Regulations 2193
Structural Steel	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 to be used when operating plant and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside crane operating areas. Outriggers of crane to be protected by jersey kerbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Refer to mobile crane operations activity in this PRR.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2194
Structural Steel		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 & Regulations 2195
Traffic Control	Is carried out on, in or adjacent to a road that is in use by traffic other than pedestrians	Hit by Moving Vehicular Traffic	A Almost Certain	4 Large	20	Consultant holding correct tickets to provide Traffic Management Plan (including Traffic Control Plan) which is specific to the works on site. Signage and Devices to be set up in accordance with approved Traffic Control Plan by workers who hold the correct tickets. Traffic Controllers to position themselves where an escape route is accessible at all times. Traffic control signs and devices are to be checked daily to confirm they are still erected as per TCP and documented using PBS Traffic Controls Daily Checklist	Physical Barrier which will take the force of a vehicle crashing into it to be set up in between workers and road users. Signage to be held down with weights and/or other appropriate methods to prevent them blowing over. Traffic and Vehicle Management Sub Plan to be in Place	3. Engineering	SS / SM	Open	WHS Act & Regulations 2206
Traffic Control	Is carried out on, in or adjacent to a road that is in use by traffic other than pedestrians	Impact on current Traffic Conditions	C Possible	5 Very Large	15	Traffic Management and Traffic Control Plan to be in place which has been selected or created by a competent person. Traffic Control signage and devices to be installed as per approved TCP.	No contractor parking on site. Workers are advised to utilise public transport. Work Zone on the road is only to be utilised for delivery of material and tools. Traffic and Vehicle Management Sub Plan to be in place	5. Substitution	SS / SM	Open	WHS Act & Regulations 2207

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						SS	Sub-Contractor Supervisor	6. Elimination	3	%Controls ≥ Engineering	91%	
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Traffic Control	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 there is any movement of powered mobile plant.	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 correct tickets if works conducted outside PBS Perimeter Fencing. Traffic Control signage and devices to be installed as per approved TCP. Traffic control signs and devices are to be checked daily to confirm they are still erected as per TCP and documented using PBS Traffic Controls Daily Checklist	Traffic and Vehicle Management Sub Plan to be in place. No contractor parking on site.	2. Administration	SS / SM	Open	WHS Act & Regulations 2208	
Windows	Risk of Person Falling more than 2m	Fall of Person	B Likely	4 Large	16	Scaffold or EWP to be used. Platform ladders may be used on ground floor. . Delivery drivers or workers are NOT to access the back of trucks unless: *There is a handrail system incorporated onto the back of the vehicle or, *A portable handrail system is provided by the project and, *The use of a portable loading bay platform would be the ideal control measure. When one or more of these controls are implemented, workers 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 building/balconies at least 3m or 1:1 ratio if a full perimeter screen/scaffold has been installed.	Ticketed Personnel required for operation of EWP. Harness to be worn and connected prior to bucket being raised. Harness to be inspected daily before use and maintained as per manufacturer specifications. Mobile scaffold to be used. Any mobile scaffold over 4m needs to be erected by a ticketed scaffolder. Loads to arrive pre-slung to eliminate the need for workers to stand on the truck tray. Internal edge protection needed when installing windows from inside the building on any level above ground.	3. Engineering	SS / SM	Open	WHS Act & Regulations 2214	
Windows		Hit by Falling Objects	B Likely	3 Medium	12	Approved, regularly inspected lifting frames to be used. Check suction and battery strength prior to lifting if 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 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 bunted off with signage to prevent unauthorised access.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2215	
Windows	Is carried out in an area at a workplace in which there is any movement of powered mobile plant	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 to be used when operating plant and equipment. Operator to be appropriately Trained / Ticketed.	Exclusion zone to be in place to prevent unauthorised entry to work area. Access ways to be redirected to ensure no personnel inside operating areas. Outriggers of crane to be protected by jersey kurbs or similar to prevent contact from other plant/vehicles. Use Tag Lines when appropriate to control light weight &/or large panel lifts in windy conditions. Dogman and Operator to sign into Crane Management Sub Plan. Spotter/Dogman to have positive communication with operator (via hand signals, whistle or UHF radio) at all times. Seat belts to be worn at all times where fitted. Refer to mobile crane operations activity in this PRR.	4. Isolation	SS / SM	Open	WHS Act & Regulations 2216	
Windows		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	Open	WHS Act & Regulations 2217	
Local Traffic Condition						PBS will either communicate directly (through Letter drops, Public Notice Boards or Consultation sessions) with these entities, or through the client established communication protocols for feedback when assessing HIRAC to be implemented when reducing any potential risk(s) posed.						
Neighbouring Businesses						PBS will either communicate directly (through Letter drops, Public Notice Boards or Consultation sessions) with these entities, or through the client established communication protocols for feedback when assessing HIRAC to be implemented when reducing any potential risk(s) posed.						
Neighbouring Residents						PBS will either communicate directly (through Letter drops, Public Notice Boards or Consultation sessions) with these entities, or through the client established communication protocols for feedback when assessing HIRAC to be implemented when reducing any potential risk(s) posed.						
Local Council Requirements						PBS will either communicate directly (through Letter drops, Public Notice Boards or Consultation sessions) with these entities, or through the client established communication protocols for feedback when assessing HIRAC to be implemented when reducing any potential risk(s) posed.						