

Edwards Properties South Wales Limited. Construction Phase Plan
Rev.03- Planning Ref 2024-0253

PLAN	Client details: Edwards Properties South Wales Ltd
	Principal Designer Details: SPR Hooper Consulting Engineer
	Principal Contractor Details: Edwards Properties South Wales Ltd
	Produced and Signed by W T Edwards - For and on behalf of Edwards Properties South Wales Ltd
	<u>Description of work/ project:</u> The development is located on the parcel land lying to the south east of Tabernacle Terrace Cwmavon Port Talbot. The construction will consist of a composite designed retaining wall, which will be incorporate into the proposed 4No split level 3-bedroom detached dwelling, and car parking facilities. Together with associated landscaping. Following completion of phase one and two, the additional plot 1A will commence start date TBA
	<u>Key dates:</u> TBA

Key members of the project team during construction and their role/ responsibilities.

Client: - Edwards Properties South Wales Limited

Principal Contractor: - Edwards Properties South Wales Limited

Responsible for overseeing the Technical / financial / and general construction phases

Site Manager: - responsible for updating HSE documentation, producing specific TBS

Garwyn Hopper- Design Engineer: - responsible for producing design calculation / drawings

Wynne Edwards: - Site Engineer / Designer: - responsible for setting out and producing / update construction drawings

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Key Arrangements:

The following site rules apply duration of the project

Site Enabling Works Prior, to Construction Phase Commencement

Enabling works will consist of the excavation of the existing embankment, together with the area to the northern end of site. To allow for the site engineer to commence with the initial setting out process. The excavated materials will be griddled to separate the hardcore / stone / bricks from the excavated material, All the fines will remain on site. hardcore material will be placed in skips. The contractor will arrange for transportation for the skips to his recycling compound, for crushing into 40mm down. The materials will then to used to form the raft rock beds. When the construction stage commences. The structural engineer SPR Hooper to clarify the suitability of the recycled stone to be installed to form formation of rock bed. Following the reduce formation level, the excavated area will be sprayed with herbicide to prevent the re-growth of vegetation

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1 – Site Rules

- Safety helmets, boots with steel toe and mid sole protection, long trousers, high visibility vest or coat must be worn on site unless instructed otherwise.
- Eye and hand protection must be worn for all cutting, grinding and drilling operations. Also, for the handling and use of hazardous substances, chemicals, liquids and gases. Gloves and wellington boots must be worn when working with concrete or similar material.
- Protection of the public is to be considered at all times.
- All injuries, near misses and environmental incidents are to be reported and entered into the accident book.
- All site personnel are to ensure that when handling fuels, oils and chemicals care is taken to prevent spillage.
- All personnel on site are responsible for maintaining a tidy work area, minimising waste and ensuring that any waste generated is taken to the appropriate skip or dispersal point.

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2 – Coordination – Schedule site meeting shall take place on a weekly bases 11:00 every Wednesday's

3 – Site Inductions – Will be undertaken every Monday morning at 09:00

Site personnel will receive site safety and environmental induction, which will as a minimum cover the following information.

- Company Health, Safety and Environmental Policy
- Known local and specific project hazards.
- Environmental aspects.
- Site access and egress, limits of access to site, site security.
- Restricted areas, permit to work systems.
- Parking and unloading arrangements where parking is restricted.
- Welfare facilities: - Site welfare facilities will be made available -: - Located at the site security premisses adjacent to the site – 1 Old Market Place Cwmavon
- Site Rules, Personal Protective Equipment, Alcohol & Drugs policy.
- Who to communicate with on safety and environmental matters and in emergencies.
- Emergency fire procedures: - fire and emergency “Muster Points” As depicted on attached site layout drawing
- First Aid Post, Due to the number of operatives working on the site at any one time, The Cwmavon Health Care Centre facility is available for first aid requirements: -
- Reporting of accidents injuries and incidents including “near miss” incidents.
- Good housekeeping - fire prevention - waste management.
- The rights and duty to communicate concerns.

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- **Waste handling arrangements.**

Site visitors shall receive sufficient information to ensure their own and others safety.

4 – Welfare Facilities – A Portable porta-loo facility will be, provided and site washing facilities. An assessment has been undertaken, based on the site restrictions imposed.

- 1. A chemical Wc will be provided on site, together with arrangements made with supplier to empty the tanks when required**
- 2. Suitable and sufficient sitting arrangements for meal and washing facilities and hand drying towels, arrangements will be, located in close proximity of the site at 1 Old Market Place for site operatives.**
- 3. When it becomes reasonably practicable to locate a site office within the site boundary. This will provide, an area for the site agent. And a resting area for the workforce (working times regulations stipulate a break every 6 hours)**
- 4. Due to the number of site operatives, and based on our welfare assessment. The requirement for changing rooms and lockers is not practicable, due to the lack of space available on site**
- 5. The welfare facilities – assessment has also been taken into consideration of the impact of COVID. Breaks will be split between the workforce to ensure social distancing can be managed and maintained**

5 – Fire Emergency Procedure – Upon hearing the alarm being sounded, or alternatively being alerted by a member of staff, all of the workforce shall make their way to the muster point (Located to the southern end of the site adjacent to the site main access gates. As identified on the attached drawing)

6 – Pre-Contract Design Information: The following information, details. Provided to SPR Hooper Consultant Engineers

- **Historical information provided detailing existing drainage passing through the site boundary**
- **Documentation outlining the historical use of the land**

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- Geotechnical information, to be provided by Terra Firma consultant Geologists / contamination soil sampling details, dynamic bore hole testing, to follow

7 - Environmental Issues: - All environmental aspects and impacts will be, considered prior to works being carried out

- Environment risk assessment attached

8 - Construction Phase: - The construction will be

~~Stage 1 Plot 1 and plot 2~~

Each item detailed below

- The site boundary is currently enclosed with fencing panels and maintained to eliminate unauthorised access
- The construction of the boundary timber fencing to the south eastern site of the site. Will be constructed to separate the site and to reduce the site works acoustic effect on the neighbouring houses
- Set out line of retaining wall, in order to determine the reduce dig
- **Reduce the embankment (Tabernacle Terrace side)** to form a sloping embankment. Starting from 3.100m off the back edge of the path back edging to avoid any stability issues with the embankment and to remain out of the influence of the existing steps located on the eastern boundary.

9 – First Aide

- An assessment will be taken for the requirements, this will take into account that the site is in close proximity of professional and suitable medical treatment at Cwmavon health centre. Opening hours 08:30 – 17:30 week days. The site office will have a fully stocked first aid kit and eye wash facilities.

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Highway Works / Pedestrian Footway

- **Protection of pedestrians, during highway footway improvement works. And from the construction works, in particular vulnerable persons.** The only time pedestrians need to be protected from construction works is during delivery drop offs. This will consist placing banksmen both sides of the delivery lorry to alert members of the public and to stop offloading activities, to ensure any members of the public pass non encumbered. At all other time all work is within our site boundary, thus no risk is posed. From deliveries. A banksman will be present for all deliveries to ensure pedestrians are not unnecessarily inconvenienced. All lorries making a delivery or collection will be fitted with the required hazard reversing alarms.
- The highway and footpath will be kept clear of any obstacle at all times. Pedestrian access will be maintained at all times. While the highway footway improvements are being undertaken. Diversions will be installed to direct the members of the public across the road to the adjacent footway to ensure safe passage. The footway will be constructed in stages this will allow the area under improvement to be completed prior to re-opening to the public.

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Construction Phase

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Each element detailed below will be allocated their own ~~site-specific~~ site-specific TBS ~~Rams~~

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- ~~Reduce dig to formation levels / Form rock blanket and compact as recommended by SPR Hooper~~ Excavate Structural Engineer foundations for composite retaining wall structure, approximately 30 L/m to design depth
- Install structural reinforcement bar / mesh as per design specifications
- Install Internal Drainage system
- ~~Construct Raft Sub Structure~~ Pour concrete to levels
- Erect RT wall formwork (Specialist Contractor)
- Construct ~~RTPC~~ retaining wall
- Install storm water drainage to retaining wall
- Apply tanking (water proofing) to RT retaining walls
- ~~Install Cordek vent Formers Set out plots in readiness for excavation~~
- ~~Install gas membrane (In accordance with Terra Firma Specifications)~~
- ~~Back fill foundations to formation levels~~
- Install floor slab insulation
- Install visqueen DPM
- Pour floor slab
- Construct Timber Frame Super Structure / By Specialists
- Install roof trusses, with ~~hiab~~ Hiab lorry / crane (~~Attach~~ Attach Lifting Plan)
- Construct external leaf Face Brickwork
- Install Upvc fascia and soffits / rain water goods
- Felt batten and tiles the roof
- Install Upvc windows

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- Clean off brickwork
- Dismantle scaffolding
- Connect utilities / Water / Gas / Electric supplies
- First fix heating / domestic supply
- First fix electrical
- Install internal staircase
- Install loft insulation
- Plasterboard first floor / ground floor ceiling
- Install door linings
- Dry line internal walls
- Install Moisture resistant Plaster boards to wet areas
- Tape and joint / internal walls
- Install Bathroom suite / Kitchen Units
- Second fix heating / domestic supply
- Second fix electrical installation
- Install skirting boards / Internal doors locks and stops
- Decorate
- Construct patio area with timber handrails and associated ramp / steps
- Install storm water system to approved design specifications
- Install foul drainage system
- Apply for road closure to connect to main foul drainage system
- Construct drop kerb access to dwelling from Tabernacle Terrace
- Landscaping
- The construction of the boundary timber fencing to the south eastern site of the site. Will be constructed to separate the site and to reduce the site works acoustic effect on the neighbouring houses
- Install structural reinforcement bar / mesh as per design specifications

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- Pour concrete to levels
- Construct retaining wall
- Install storm water drainage to retaining wall

Key Risk Site Identified

Hazard Aspect	Risk Impact	Uncontrolled Risks			Control Measures	Residual Risk			Person Responsible	TBS No.
		L	S	R		L	S	R		
Falls from height whilst erecting scaffolding	Death Serious Injury Minor Injury	3	5	15	Access working platform (scaffolding) will be erected by a fully competent scaffolding sub-contractor; details of the design will be submitted to the principal contractor for sign off, prior to commencing to erecting the scaffolding. Weekly inspection of the scaffolding working platform shall take place. The sub-contractor will provide the principal contractor with a full electronic copy of the scaffolding inspections	1	5	5	Site Manager/Lift supervisor	
Lifting operations	Death Serious Injury Minor Injury	3	5	15	Certified competent Banksman will be in attendance, together with trained and competent slingers; whilst lifting operations are being undertaken, with a crane / Hiab Only equipment with a current test certificate and colour code to be used. All lifting tackle and equipment, to have a visual inspection prior to use. Any tackle or equipment found to be defective must be removed from use and reported to your supervisor. DO NOT USE ANY EQUIPMENT THAT IS DEFECTIVE. All crane movements must be banked including the positioning of the Crane. The crane driver's certification must be checked and the driver Briefed on the tasks being carried out. The crane is to be set up as per lifting plan and in accordance with the crane	1	5	15	Site Manager/Lift supervisor	
Compressed air	Death Serious Injury Minor Injury	3	4	12	Pre use checks to be carried out and recorded, whip checks to be used on all airline connections pre use checks to be carried out- any suspected damaged hoses or lines will not be used. Compressor will be situated not to pose danger or nuisance to public. Drip trays to be used, fire extinguishers and spill kits to be present.	1	4	4	General Foreman/Site Manager/ All Site Staff	

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Hazard Aspect	Risk Impact	Uncontrolled Risks			Control Measures	Residual Risk			Person Responsible	TBS No.
		L	S	R		L	S	R		
Buried Services / Excavating	Cable strike Minor/Serious injury Damage to services/equipment	5	5	25	No excavating can commence without full CAT scan by competent person No excavating can commence until Permit to Dig is issued by the Site Manager / A full exclusion area will be setup and maintained while mechanical excavation is taking place Only hand digging is allowed within 1m of any live service/cable Checks will be undertaken to ensure no services are present within the site boundary.	1	5	5	All working on excavation	
Lifting Operations	Death Serious Injury Minor Injury Damage to equipment Dangerous Occurrence	3	5	15	Appropriate Lift Plan and permit to be in place prior to lifting operations and overseen by a Competent Person Competent banks-man/slinger to control lifting movements Operatives to stay clear of items being lifted All equipment to be used must be visually inspected and carry the correct certifications Permits to Lift in place when using HIAB's / Telehandlers	1	5	5	General Foreman/Competent Agent	
Manual Handling	Serious Injury Minor injury	5	4	20	Avoid manual handling wherever possible, consider using mechanical equipment Manual handling assessment (F-003) carried out	2	4	8	General Foreman/Site Manager/ All Site Staff	
Light, Noise & Vibration Pollution	Nuisance to local residents Disturbance to local habitats/wildlife Legislative breach	3	3	9	Locate plant away from sensitive areas Restrict type of plant and equipment (use super silenced generators & low vibration equipment) Shut down plant and equipment when not in use Use of well-maintained plant Communication with local residents (mail drop) Restrict methods of working & work areas Site induction & tool box talks	1	3	3	General Foreman/Site Manager/ All Site Staff	
Poorly Maintained Plant, Equipment, Tools (oil/fuel leaks)	Land contamination Pollution of watercourses Loss of habitat Destruction of ecology Damage to vegetation	3	4	12	Maintain precautionary contaminated ground conditions, as depicted within geologist site investigation report Maintenance, Inspection & Test Certificates Pre-start inspections Weekly inspections Do not Use poorly maintained items	1	4	4	General Foreman/Site Manager/ All Site Staff	

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		L	S	R		L	S	R		
Refuelling of Plant & Equipment	Damage to vegetation Loss of habitat Destruction of ecology Fuel spills onto land/water courses/surface water drainage	4	4	16	Designated refuelling area Use of drip trays Use of spill kits Pollution incident Control Plan Fuel bowser to be locked when not in use Double skinned fuel bowser Locate away from watercourses/systems (10m minimum)	1	4	4	General Foreman/Site Manager/ All Site Staff	ALL – Multiple Tasks
HAVS	Serious injury	4	3	12	Individuals to receive HAVS surveillance survey Wherever possible procure items of equipment that have low HAV values Wherever possible all equipment will have HAV meters attached Supervisors to monitor HAV reports to ensure compliance Task briefing to include HAV awareness	2	3	6	Operatives/ General Foreman supervisor	ALL – Multiple Tasks
Personnel – slips, trips and falls	Serious/Minor injury	4	4	16	All staff will be briefed on site conditions. All site operatives will be encouraged to maintain good practices on General housekeeping Toolbox talks to be given.	2	4	8	All persons	ALL – Multiple Tasks
Lack of site knowledge in new staff /operatives / third parties and visitors	Death Serious/Minor injury	3	5	15	All persons to receive site induction. Fully briefed TB to be in place "Work safe" policy to be implemented Escorted by appointed person Site personnel are briefed about the presence of visitors	1	5	5	General Foreman	ALL – Multiple Tasks
Excavating and Temporary Works	Death Serious Injury Excavation Collapse	4	5	20	All excavations to be inspected daily by a competent person, prior to the recommencement of excavation All works in accordance with an approved temporary works design All excavating carried out via associate Permit to Dig Batter excavations where possible and utilise appropriate temporary works if not possible CAT scan throughout while excavations are being undertaken	2	5	10	Competent Person General Foreman	ALL – Multiple Tasks
Working with mortar / pre-mixed concrete	Serious injury	3	5	15	Arms and legs to be covered to risk cementitious burns. Wellington Boots to be worn, Chemical resistant trousers to be worn. COSHH briefing to be carried out. Eye protection to be worn	1	5	5	Operatives General Foreman	ALL – Multiple Tasks

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Hazard Aspect	Risk Impact	Uncontrolled Risks			Control Measures	Residual Risk			Person Responsible	TBS No.
		L	S	R		L	S	R		
Working with reinforcement	Serious injury Minor injury	4	3	12	Correct PPE to be worn including gloves and glasses which are fit for purpose Bundled steel to be stored correctly Tying wire to be kept bundled Ensure work area is not congested Ensure correct footing (Youngman board or similar) when tying steel	3	3	9	General Foreman Operatives supervisor	ALL – Multiple Tasks
Embankment slips	Serious injury Excavation collapse	4	3	12	Visual inspection of embankments, paying particular attention after environmental changes, e.g., heavy rain, freezing etc In areas of temporary works ensure that all works are in accordance with the design	3	3	9	Competent Person General Foreman	ALL – Multiple Tasks
Interfaces with other contractors	Damage to Equipment Serious Injury Minor Injury Loss of productivity	5	4	20	All works pre-planned and communicated to other spokes All personnel to be briefed and competent in their duties Segregate works where possible with physical barriers Only utilise own plant and materials	1	4	4	ALL	ALL – Multiple Tasks
Movement of Plant.	Death Serious injury Dangerous occurrence Damage to equipment	3	5	15	A banks-man will be appointed. Exclusion zone will be setup to eliminate any unauthorised entry No movements on site will be made without authorisation from the banks-man. No vehicles will be allowed to reverse while on site without being escorted and marshalled by the banks-man.	1	5	5	ALL	ALL – Multiple Tasks
Working in the vicinity of the public	Serious/Minor injury	2	5	10	Secure site at all times Plan works and detail public interface areas. Toolbox talks to be given. Adequate signage Exclusion of public from site	1	5	5	General Foreman	ALL – Multiple Tasks
Use of disc cutters	Personnel injury Serious/ Minor injury Damage to infrastructure Vibration white finger	3	4	12	Only approved tools to be utilised and must carry a valid PAT test certificate and be continually inspected whilst works are on-going. HAVS trigger times to be adhered to and not exceeded at any time. Only 110v tools to be used on site. All operatives are to be fully trained and competent in the use of the power tool they intend to use. Tools only to be utilised in appropriate weather conditions. Dust suppression equipment to be utilised at all times, especially in dry/ windy conditions	1	4	4	GF / Site Manager / Supervisor	ALL – Multiple Tasks

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		L	S	R		L	S	R		
Hot Works working	Serious Injury Dangerous occurrence Damage to equipment	4	4	16	A signed hot works permit must be in place. Correct fire-retardant PPE must be worn at all times. Fire extinguishers/ jack of water on site. Fire screens to be used where applicable.	2	4	8	GF / Site Manager / Supervisor	ALL – Multiple Tasks
Trench / excavation collapse	Serious Injury Dangerous occurrence	4	5	20	Ground conditions to be assessed by a competent person No access into the excavation unless absolutely necessary Temporary works to be installed in line with the design	2	5	10	Operatives	ALL – Multiple Tasks
Welfare facilities	COVID	5	5	25	The welfare facilities assessment has taken into account the requirement for Social social distancing. Arrangement will be made to split the breaks for the workforce. To allow and maintain social distancing	2	5	10	ALL	
Welfare facilities	Absence of on-site welfare facilities within site boundary	2	5	10	While the excavation operations are being undertaken, to clear the site to facilitate an area to accommodate a site office, which only require a machine operator and 1 operative. Suitable arrangements for access to hot-cold drinks.	2	3	6	ALL	
Welfare facilities	Welfare facilities at premises, in close vicinity of the site	2	2	4	Suitable welfare facilities will be provided at a local premisses, in close vicinity of the site. To provide a sitting area and allow for meals, with hot and cold running water.	1	2	2	ALL	
Welfare facilities	Welfare facilities. Rest Area / COVID	1	3	3	The number of operatives on site will be a maximum of 8. While the construction process is being undertaken. The site cabin will be utilized for arrangements to split break times to maintain social distancing. And allow the workforce to take breaks (Regulation working times – Break at 6 hours. Hot drinks and washing facilities will continue to be available at 1	1	2	2	ALL	
Welfare facilities	Changing Rooms / Lockers	1	3	3	Based on the site welfare assessment, and taking into consideration of the site restriction, together with the low number of operatives the requirement for changing rooms and locks. Is considered not practicable to provide.	1	2	2	ALL	
Existing Retaining Wall	Serious Injury Dangerous occurrence	4	5	20	An exclusion zone will be setup 3 meters from the edge of the existing retaining wall structure. This is demarcation line is by a line of setting out pegs. The site supervisor will ensure that this exclusion zone is maintained Under no circumstances should any super imposed loading be placed within 3 meters of the existing retaining wall, as such stock piling excavated materials / skips / plant	2	5	10	ALL	

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		L	S	R		L	S	R		
Contaminated Ground / Dust	Respiratory injury Dangerous occurrence	4	5	20	Dust suppression will be implemented A dedicated bunded area will be established, based on the volume of run off Dedicated cutting areas to be established, Avoid cutting, by ordering specific size materials	2	5	10	ALL	
Likelihood		Severity (Health & Safety)			Severity (Environmental)					
1 = Very unlikely		1 = Minor injury			1 = Minor environmental incident with no legislative breach					
2 = Unlikely		2 = Lost time injury			2 = Potential for complaints from local residents, no legislative breach					
3 = Likely		3 = Reportable injury			3 = Potential for lost time/complaints from Local Authority for legislative breach					
4 = Very likely		4 = Major injury/dangerous occurrence			4 = Minor legislative breach with potential for prosecution					
5 = Certain		5 = Fatality			5 = Potential for major environmental incident with high clean up and/or prosecution costs					
Risk Rating		1 – 4 = Low			5 – 9 = Medium			10 – 25 = High		