

Project Number	D2307	Project Stage	Construction	Revision	B	
Project Name	Green Park Village Village – Phase 3B	Document Title	Landscape CDM Risk Register	Issued Date	13/01/2017	
Client Name	Berkeley Homes (Western) Ltd	Document Number	D2307 CDM-P3B	Issued By	J Renton	

GENERAL STANDARDS AND EXPECTATIONS

This document has been prepared, on behalf of Berkeley Homes (Western) Ltd to identify specific hazards arising within the landscape design elements at Green Park Village – Phase 3B. The document is prepared in accordance with ‘Managing health and safety in construction – Construction (Design and Management) Regulations 2015’.

Any works shall be carried out in accordance with the approved fabrik drawings and specifications. Good horticultural practice and the current British Standards should be followed with all operatives being trained according to the task to be undertaken. It shall be the contractor’s responsibility and liability for any damage to person or property, however caused whilst on site.

Below are the series of landscape drawings (Stage E) that were submitted as part of the Planning submission by Berkeley Homes.

L.240	Detailed Hard Landscape GA
L.241	Detailed Hard Landscape GA
L.242	Detailed Hard Landscape GA
L.340	Detailed Soft Landscape GA
L.341	Detailed Soft Landscape GA
L.342	Detailed Soft Landscape GA
L.344	Planting Schedule and Specification
L.345	Detailed Soft Landscape GA

Project Number	D2307	Project Stage	Construction	Revision	B	
Project Name	Green Park Village Village – Phase 3B	Document Title	Landscape CDM Risk Register	Issued Date	13/01/2017	
Client Name	Berkeley Homes (Western) Ltd	Document Number	D2307 CDM-P3B	Issued By	J Renton	

Hazard Reference	CDM001				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Falls from Heights.				
Potential Hazard	Falls from landscape elements/structures within the development.				
Design Mitigation	The specifying of applied finishes at high level has been minimised or eliminated in the landscape design.				
Residual Risk	Planning	n/a			
	Operation	Low			

Hazard Reference	CDM002				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Earthworks / Ground works.				
Potential Hazard	The design of confined spaces within the landscape.				
Design Mitigation	The designing of small confined spaces within the landscape has been avoided at the planning stage. Contractor to carry out site inductions and monitor on site / method of work.				
Residual Risk	Planning	n/a			
	Operation	Low			

Hazard Reference	CDM003				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Earthworks / Ground works.				
Potential Hazard	Conflict with landscape elements and the proposed services and drainage on site.				
Design Mitigation	Final review of service information that has been provided to date to avoid conflicts between planting and trees and service runs.				
Residual Risk	Planning	Low.			
	Operations	Low - Final location to be agreed and checked on site. Tree planting areas are to be clearly identified, as built record drawings of services required prior to landscape contractor starting on site.			

Project Number	D2307	Project Stage	Construction	Revision	B	
Project Name	Green Park Village Village – Phase 3B	Document Title	Landscape CDM Risk Register	Issued Date	13/01/2017	
Client Name	Berkeley Homes (Western) Ltd	Document Number	D2307 CDM-P3B	Issued By	J Renton	

Hazard Reference	CDM004				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Landscape Materials.				
Potential Hazard	Dust and small particles produced from landscape hard materials.				
Design Mitigation	- Materials have been specified to reduce / avoid such materials producing dust that pose risk. - Contractor to carry out toolbox talks and provide appropriate equipment at the construction stage.				
Residual Risk	Planning Operations	- n/a - Low			

Hazard Reference	CDM005				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Landscape Materials.				
Potential Hazard	Cuts and abrasions to personnel.				
Design Mitigation	- The specifying of materials with sharp edges or require cutting has been avoided where possible. - Cutting required for paving slabs has been minimised as far as possible.				
Residual Risk	Planning Operations	- n/a - Low			

Project Number	D2307	Project Stage	Construction	Revision	B	
Project Name	Green Park Village Village – Phase 3B	Document Title	Landscape CDM Risk Register	Issued Date	13/01/2017	
Client Name	Berkeley Homes (Western) Ltd	Document Number	D2307 CDM-P3B	Issued By	J Renton	

Hazard Reference	CDM006				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Landscape Materials.				
Potential Hazard	Manual handling / musculoskeletal injuries.				
Design Mitigation	The current designs allow mechanical handling where possible, and to allow specifications to ensure ease of manual handling. Avoidance of specifying materials over limits allowed for lifting. The locations of the trees are accessible for delivery and handling. Correct machinery (lifting hooks) to be used for handling trees. Ensure method statements are provided at tender stage for heavy lifting.				
Residual Risk	Planning Operations	- n/a - Low. Tool box presentation to ensure correct manual handling.			

Hazard Reference	CDM007				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Landscape Materials.				
Potential Hazard	Trips or falls on surfaces.				
Design Mitigation	The current designs have minimised or eliminated materials with risk of trips or falls.				
Residual Risk	Planning Operations	- Low - Review of landscape information will be required when full building and engineering designs are finalised. - Low.			

Project Number	D2307	Project Stage	Construction	Revision	B	
Project Name	Green Park Village Village – Phase 3B	Document Title	Landscape CDM Risk Register	Issued Date	13/01/2017	
Client Name	Berkeley Homes (Western) Ltd	Document Number	D2307 CDM-P3B	Issued By	J Renton	

Hazard Reference	CDM008				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Landscape Planting.				
Potential Hazard	Sickness, poisoning, injury or irritation from plants, from ingestion or touching.				
Design Mitigation	The current designs have minimised use of these plants in areas alongside proposed pedestrian routes.				
Residual Risk	Planning Operations	- n/a - Low - correct maintenance.			

Hazard Reference	CDM009				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Large trees specified for the scheme				
Potential Hazard	Manual handling/musculo-skeletal injuries from lifting of large elements				
Design Mitigation	All proposed trees/plants specified to be lifted using suitable heavy equipment or crane and placed directly into the pits to minimise handling.				
Residual Risk	Construction	- Contractor with experience of installing large trees to be appointed - Contractor to provide safe working method for installation of the trees during construction - Mechanical lifting equipment will be required at all levels to assist with the minor movements required to position trees			
	Operation	Following completion of the construction works, replacement trees will need to be installed using a temporary crane. Method statements will be required for mechanical lifting and separation from the public			

Hazard Reference	CDM0010				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Oversized elements				
Potential Hazard	Manual handling/musculo-skeletal injuries from lifting of large elements such as paving units, street furniture, linear concrete benches and cycle shelters (this list is not exhaustive)				
Design Mitigation	Allow for mechanical lifting.				
Residual Risk	Construction	Method statement for work during construction. Safety measures following audits.			
	Operation	n/a			

Project Number	D2307	Project Stage	Construction	Revision	B	
Project Name	Green Park Village Village – Phase 3B	Document Title	Landscape CDM Risk Register	Issued Date	13/01/2017	
Client Name	Berkeley Homes (Western) Ltd	Document Number	D2307 CDM-P3B	Issued By	J Renton	

Hazard Reference	CDM0011				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Maintenance & Service vehicles/pedestrian collisions				
Potential Hazard	Pedestrians coming into contact with maintenance/service vehicle(s).				
Design Mitigation	Pathways and access points designed to provide sufficient space for maintenance/service vehicles				
Residual Risk	Construction	- Details of construction traffic movement to be agreed and adhered to. - Ensure that the route is kept accessible at stages of the build where required.			
	Operation	Maintenance team to prepare appropriate strategies for routine building maintenance and safe pedestrian movements			

Hazard Reference	CDM0012				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Earthworks associated with site embankments along Longwater Ditch and associated with the pond.				
Potential Hazard	Falls from height / material at lower level				
Design Mitigation	Earthworks designed to be no greater than 1 to 3 gradient (in order to be self-supporting and to allow maintenance operations associated with proposed vegetation). Where existing embankments are steeper than 1 in 3 hedgerow planting with an internal post and wire fence line has been located along the embankment edge to deter access to the water body by pedestrians.				
Residual Risk	Construction	Low - Consider early temporary guardrail installation where required.			
	Operation	Low - Maintenance contractor should carry out their own risk assessment and develop appropriate methodology for maintaining these areas. Particular consideration should be given to the following areas: Use of chemicals / movement and use of mechanical equipment on banks / removal of arising's and other organic debris. Maintenance of steep slopes to be undertaken by qualified personnel and the correct safe procedures are to be put in place.			

Project Number	D2307	Project Stage	Construction	Revision	B	
Project Name	Green Park Village Village – Phase 3B	Document Title	Landscape CDM Risk Register	Issued Date	13/01/2017	
Client Name	Berkeley Homes (Western) Ltd	Document Number	D2307 CDM-P3B	Issued By	J Renton	

Hazard Reference	CDM0013				
Drawing Reference	All General Arrangement Plans				
Activity / Element	Landscape mounds and play equipment associated with the LEAP.				
Potential Hazard	Falls from height / equipment at lower level.				
Design Mitigation	- Landscape mounds around the LEAP are designed to be no greater than 1 to 3 gradient (in order to be self-supporting and to allow maintenance operations associated with proposed vegetation). - Planting has been designed upon the landscape mounds to reduce the risk of climbing and falling. The height of the mounds has also been restricted to help mitigate injury from falls. - Surface around and under fixed play equipments are to be a safety surface material to prevent injuries caused by falling from height.				
Residual Risk	Tender	Low - Consider early temporary guardrail installation during construction where required.			
	Operation	Low - Maintenance contractor should carry out their own risk assessment and develop appropriate methodology for maintaining these areas. Particular consideration should be given to the following areas: Use of chemicals / movement and use of mechanical equipment on banks / removal of arising's and other organic debris. Maintenance of slopes to be undertaken by qualified personnel and the correct safe procedures are to be put in place.			

Note: In accordance with the Construction Design Regulations 2015, a design risk assessment has been undertaken for the elements of work shown on the landscape planning drawings.	
Note: The contractor shall ensure that prior to commencement of works, all work shall have in place a full method statement and risk assessment. The contractor shall also ensure that all operatives are correctly inducted and are competent to undertake the work. All temporary works required to undertake the works shall be designed by the contractor. Any special construction sequences are identified on the drawing where required.	