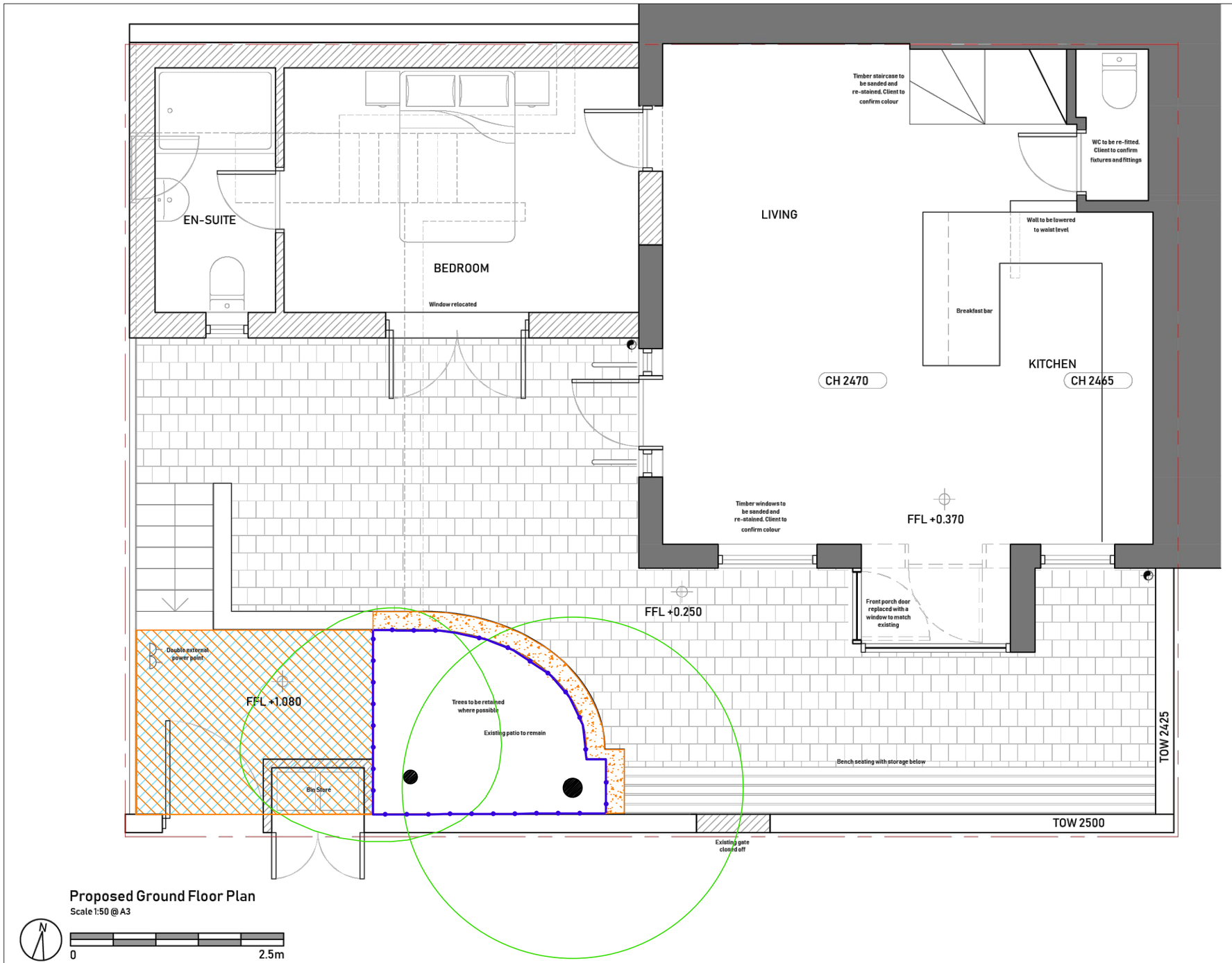

KEY

- Retained trees
- Removed trees
- Protective Fence
- No-Dig Construction
- Temporary Surface Protection
- Replacement Planting

ARBORICULTURAL IMPACT ASSESSMENT

The development proposed in the vicinity of retained trees is the removal of a section of raised bed with masonry retaining wall and the construction of a new length of retaining wall with steps to a paved area with pedestrian access and bin store. Because of the existing constraints to root system spread (wall, retaining wall) the root Protection areas of the two trees have been modified. Both theoretical RPA circles and the modified area are shown on the Tree Constraints Plan which informs this AIA and the recommended tree protection measures. This AIA is based on the following outline tree protection measures. A detailed method statement covering the contract status construction method and tree protection methods will be required under condition.

The undisturbed section of retaining wall is shown with a stippled hatch. Tree protection barriers are formed of the existing boundary wall, the undisturbed retaining wall and a line of 'Heras' 1.8m height fencing to connect the two walls, as shown on the Tree Protection Plan. The retained upper bed area (shown hatched) will be protected by 17mm external quality plyboard placed over a 50mm layer of compressible material, such as bark mulch. These protection measures will be in place prior to the commencement of any development work on site.

Where levels are to be reduced, removal of the section of retaining wall, boundary wall and the retained upper level shall be carefully undertaken so as to retain the soil in the upper level in the tree protection area, where shown on the plan,completely undisturbed. A plyboard shuttering shall be installed immediately along the cut line following careful soil removal to protect the retained upper level soils against drying and erosion. Hand work will be employed where necessary to avoid damage to the retained soil volume. No machinery will be employed in or transit across the tree protection area. Any concrete slab pour for foundations of the new retaining wall shall employ DPM-lined formation to prevent the escape of leachate into the surrounding soils.

The upper level hard surface and bin store shall be constructed as the last phase of the build contract after the new ground floor extension is complete. The temporary surface protection can then be carefully removed and a new permeable surface can be installed over a Geogrid reinforced sub-base such as CellWeb. Any adjustment of surface levels shall be predominantly by building up with a high sand content soil and no level reduction of more than 100mm will be allowed in the new surface construction within the tree protection area. These simple measures should allow the development of the ground floor bedroom and new access arrangement while retaining the two trees successfully.

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TREE PROTECTION PLAN

1:50 at A3	DAB	JULY 2024