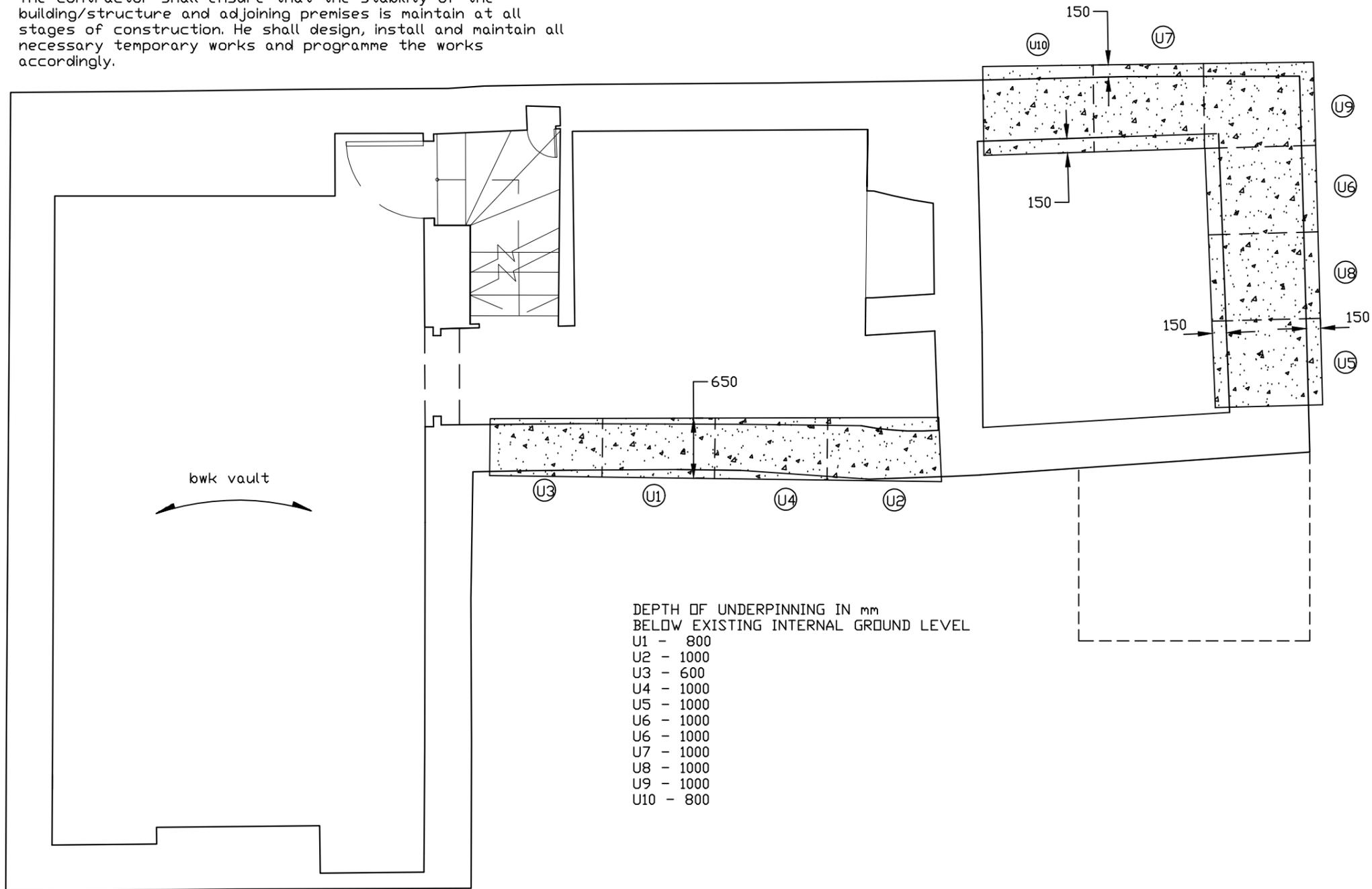


Concrete Grade C35, cover to earth face 75
 1 hour fire protection to steelwork, 15mm Glasroc F Fireline by British Gypsum
 Bolts Grade 8.8, welds min 6mm FPFW
 Timber Grade C16
 Fabrication drawings to be issued to Engineer for checking prior to manufacture. Dimensions to be confirmed on site.
 The contractor shall ensure that the stability of the building/structure and adjoining premises is maintain at all stages of construction. He shall design, install and maintain all necessary temporary works and programme the works accordingly.

UNDERPINNING NOTES

- 1 All underpinning operations to be carried out to the satisfaction of the Engineer and Local Authority Building Control officer.
- 2 Excavations are to be carried out in short sections of length not exceeding 1.2m, unless propped using sacrificial steel Acrow props.
- 3 Under no circumstances should the unsupported length exceed one quarter of the total length to be underpinned.
- 4 Excavations to be taken down to an approved formation level. Contractor to have sump pumps on site to cater for any water found in the excavations.
- 5 Excavations to be left open for as short a period as possible. The contractor to have trench sheeting and props on site to shore up any loose soil discovered during the excavations. Wall shutters to be propped back to earth bund. Walls to be back propped for min 14 days after pouring.
- 6 Immediately prior to concreting, the bottom 75mm of the formation shall be removed together with all loose and disturbed material.
- 7 The underside of the exposed footings are to be thoroughly cleaned and hacked free from any dirt, soil or loose material prior to commencing underpinning.
- 8 The body of the underpinning is to be constructed in reinforced concrete Grade C35, width as specified on the drawings.
- 9 Adjacent pours shall be keyed together with H12 dowels at 300 centres both faces, lap 350.
- 10 Brickwork and cure 48 hours before drypacking.
- 11 Final pinning up is to be carried out using a semi-dry mix, well rammed in and placed as soon as possible after the foundation has hardened, but not less than 24 hours after pouring the pin.
- 12 The pinning up concrete is to consist of 1:3 cement : sand, mixed as dry as possible and placed with a blunt rammer.
- 13 Excavation for any section of underpinning shall not commence until at least 24 hours after completion, including pinning up of any adjacent section.
- 14 The Contractor shall take all necessary care to ensure that the areas directly affected by the works are reinstated to their original condition.



**FOUNDATION PLAN
 (showing underpinning layout)**

