PATHS & STEPS SPECIFICATION 'K'

Specification for repair and replacement of Paths, Steps and flat areas

Generally

1. The Contractor must ensure that all work areas are suitably protected with adequate barriers (Heras fencing) or other controls to prevent any unauthorised access to the work area and to protect the general public entering via adjacent footpaths or highway.

2. The Contractor is to liaise with the tenant(s)/leaseholder(s) and agree to maintain a safe route for access and egress throughout the contract period.

3. The Contractor is to protect where appropriate, adjacent surfaces including gardens and adjoining properties during the execution of the work. On completion, the site should be free of any work related debris, clean and offered to the Contract Administrator (CA) for final inspection.

4. The Contractor must comply with permitted working hours (08.00 -18.00 Mon – Fri). No weekend working unless it is deemed essential and with prior agreement by CA. Suitable written notice by the contractor must be given to the tenant(s)/leaseholder(s) and nearby residents.

5. The Contractor is to inspect all the work areas and if necessary, formulate a suitable traffic management plan for the safe removal of debris along with safe delivery and storage of materials, any traffic control measures used must be approved by the VOGC highways department

6. The Contractor is to satisfy themselves on the location of all services, serving the property/properties being worked on. This may include but is not limited to visually inspecting and use of cable avoidance equipment to scan the work area for any services or utilities that may be below ground and take all necessary precautions.

7. Paths clear widths general to all areas

    - General paths 1.0m wide. (If DDA path where possible 1.2m wide)
    - All steps and main entrances off highway ‘only’ are to be 1.2m wide
    - Off building external walls **with** EWI installed 1.0m
    - Off building external walls **without** EWI installed 1.1m

8. All costs are to include for any timber shuttering and support formwork to carry out any path/step’s replacement works.

9. All Debris to be removed daily or stored in an appropriate compound/site compound.

New Slabbed Paths and Slabbed Areas

10. Supply and lay Marshalls Saxon Paving Slab Natural 600mm x 600mm x 50m. Slabs to be Grey non-slip surface (or equally approved) laid with tight joints (10-15mm) joint and where possible to a minimum longitudinal fall of 1 in 60 and Transverse fall of 1 in 40.

11. Paving slabs to be laid on a full bed of wet workable mortar consisting of 1 to 3 mix (Cement/ sharp sand) to a thickness of between 40/60 mm over the compacted subbase.

12. Subbase to consist of 100 mm type 1 made up of two compacted 50mm layers

13. Concrete path edgings round top 50 mm x 150 mm x 914mm where required to be laid on 150 -200 mm bed of semi dry kerb mix (C 7.5) and Hunched to 125 mm height with C20 (25-50 mm slump concrete)

14. See drawing A001 detail 1

Existing paving slab Paths and paving Slabbed Areas

15. Existing paving slabs that are to be re-levelled should be laid to the same specification as the new paving slabs listed in paragraph 10 The existing mortar bed to be removed and carted away. Existing subbase assumed to be adequate. (If not, is to be excavated by 100mm then see paragraph 12)

16. Any concrete path edgings to be replaced should match with any existing and laid as in paragraph 13.

17. See drawing A001 detail 1

Concrete Paths

18. Carefully break out and cart away existing path, steps or flat area.

19. Reduce level of subsoil by 100mm below the path, cart away any excess.

20. Paths are to have a minimum clear width of Unless otherwise indicated. See paragraph 7 for guidance.

21. Remove any soft spots, fill with suitable material and compact to bring back up to required level.

22. Provide and lay concrete grade C20, (tamped or brushed CA to agree) with a bull nose trowel finish around perimeters.

23. Expansion joints are to be included every 3.0m the joint (s) can be positioned to coincide with existing movement joints or band courses or centred within the path for aesthetic reasons.

24. See drawing A001 detail 2

Widening of Existing Concrete Paths

25. Any add-on concrete path will need to be bonded to the existing path with, 10mm x 250mm Re-bar dowels resin fixed into the existing path (min depth 100mm centre into the existing path). The add-on path must be cast 50mm deeper than the existing path to avoid cracking or turning/ rotating.

26. Trueness of the existing surface needs to be considered regarding avoiding any trip hazards, an allowance should be made to grind down any high points. Where the proposed path add-on is to adjoin an existing bullnose (smooth) trowelled edge the smooth trowelled edge should be cut back and removed to avoid a potential slipping hazard.

27. Expansion joints shall follow the guideline above in the concrete path section.

28. Excavate the area of the new path add-on to 250mm below the finished level of the existing path.

29. If the existing path edge is of poor quality and uneven, the contractor will need to cut a straight line to expose a workable face, allowing SBR or similar bonding agent to be applied along its length.

30. Use Expoxy chemical resin to fix the re-bar to the centre line of the existing path edge at an embedment depth of 100 mm,10 mm diameter re-bars 250mm long at 600 mm centres along it length. .

31. Concrete to be conventional grade C20 and finished to best match the existing tamped/brushed finish.

32. Where concreting path are between to structure an expansion board must be fitted against one side unless instructed (in writing) by the CA not to install.

33. See drawing A001 – detail 3

Concrete Ramps

34. As per paragraphs 16 to 22

35. If a DDA ramp is to be installed, then 6 no 450x450mm Tactile paving slabs (CA to agree colour) at top and bottom of landing are to be installed. Ramp gradient to be 1:12.

36. See drawing A001 – detail 4

Tarmac paths

37. Carefully break out and cart away existing path

38. Reduce level of subsoil by 250mm below the path, cart away any excess.

39. Provide and lay 180mm compacted subbase, free from excessive dust, compacting loose soil, any rubbish and standing water is removed, and spread subbase evenly.

40. Remove any soft spots, fill with suitable material and compact to bring back up to required level.

41. Concrete path edgings ‘round top’ 50 mm x 150 mm x 914mm where required to be laid on 150 -200 mm bed of semi dry kerb mix (C 7.5) and Hunched to 125 mm height with C20 (25-50 mm slump concrete)

42. Provide and lay concrete Asphalt rolled flat and even, footpaths to be standard to BS EN 13108-1
    - Binder Course (AC 32 HDM base/bin 40/60), compact thickness 40mm
    - Surface Course (AC 6 dense surf 100/150), compact thickness 20mm

43. See drawing A001 detail 5

Steps adjoining landing/paths

44. Steps to be constructed of 100mm concrete over 100mm compacted sub-base to comply with part K building regulations, treads to be non-slip. (max riser 150mm, going 290mm min – all going/riser must be equal)

45. For details of Handrails to steps refer to Specification X. All to be constructed to comply with part K building regulations.

46. See drawing A001 detail 6

Subsoil / Topsoil

47. Any ground disturbed during construction is to be re-graded to conform to the general shape of the adjacent ground and adequately prepared for cultivation (any excess spoils is to be removed from site) relaying of the existing topsoil (where possible) The contractor will be required to provide additional seeded top soil to a thickness of not less than 150mm (and raked evenly on completion).

48. Any imported topsoil to be multi-purpose (normal phosphorous) to BS3882: 1994 Classification B