



**CELLULAR ATTENUATION AND CONTROL DETAILS**  
 1:20

- NOTES:**
- The system shall be "fully roddable" in accordance with approved document part H.
  - For details of ground conditions refer to the Ground Investigation Report.
  - This drawing is to be read in conjunction with all other relevant Engineers and Architects Details and RWP/SVP locations are to be confirmed by the Architect prior to commencement of drainage works.
  - All external building and car park drainage to be constructed in accordance with BS 752 Part 4 code of Practice and Part H of the Building Regulations Latest Edition.
  - The following pipe strengths shall be adopted unless noted otherwise:-
    - Pipes up to and including 150mm dia to be PVC-U to BS EN 1329, or clayware to BS EN 295 Class 160
    - Pipes 150mm diameter up to and including 225mm to be clayware to BS EN 295 Class 160
    - 300mm diameter to be clayware to BS EN 295 Class 160 or concrete to BS 5911 Class M
    - Pipes over 300mm diameter to be concrete to BS 5911 Class H
  - All pipe runs to be laid with flexible joints.
  - All pipes entering and exiting manholes are to be connected with pipe soffits level unless noted otherwise.
  - All precast concrete products (ie pipes, manholes rings etc.) shall be of suitable concrete mix to cater for Class 2 sulphates.
  - Pre-formed channels are to be used in manholes where applicable.
  - Granolithic concrete benching to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections and laid in accordance with the Specification.
  - All dimensions are in millimetres unless noted otherwise.
  - All connections to be turned in direction of flow using pipe bends and swept junctions.
  - First flexible joint in pipes adjacent to a manhole shall be a maximum of 600mm from inside face of manhole, connecting to rocker pipe.
  - The Principle Contractor shall be responsible for checking the existing line and invert levels of any connection points for both the foul and surface water systems, prior to undertaking installation of any new drainage works. Any deviation to the levels and positions indicated on the drawing should be brought to the immediate attention of the Project Engineer.
  - All inverts specified are outgoing (except backdrop)
  - All surface-water connections to be laid at a minimum gradient of 1:80 unless noted otherwise.
  - All foul connections to be 100mm dia. laid at a minimum gradient of 1:40 unless noted otherwise.
  - All connections to be made by purpose made junctions as far as practicable.
  - All polypropylene inspection chambers shall be in accordance with BS 7158.
  - All drains to be tested prior to backfilling, after backfilling and upon completion of hard landscaping. In addition all drains to be inspected by CCTV methods prior to hard landscaping.
  - Setting out of all RWP's, SVP's and SS's to be confirmed by architect.
  - All cover levels, floor levels and proposed ground levels are provisional and should be confirmed by the contractor.

**PRELIMINARY DRAWING**

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revisions			
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