



~~~ To be Abandoned

latest SVP/SS locations

Existing Road Gully

Proposed Road Gully

Proposed Yard Gully

Proposed Level

or similar approved

Proposed Rodding Eye

Proposed Finished Floor Level

Proposed Level remaining same as existing

Cellular Storage Structure SDS Geolight

Proposed Drainage Connection refer to Architects drawing for

Proposed Rain Water Downpipes with Access Gullies for suface drainage. Refer to Architects drawing for latest locations

## NOTES

- 1. Drawings to be read in conjunction with all Architects', Services and Structural Engineers'
- Drawings & Specifications. 2. Topographical survey is based on -
- 3. For below ground drainage details refer to 1809 202-203
- 4. Refer to architects' drawings for current floor layouts and internal drainage locations
- 5. All drainage works shall be carried out in accordance with Sewers For Adoption 6/7th edition and addendums as appropriate including the requirements of the local authority and in conjunction with all relevant British Standards and codes of practice
- 6. Drawings to be read in conjunction with any specifications issued with the stage drawings
- 7. All drainage shall comply with the requirements of BS EN 752:2008, The Building Regulations ADH and typical drainage construction details
- 8. Private pipework may be either vitrified clay to BS 65:1991 and BS EN 295:2013, Thermoplastic Structured Wall (SN4 Min) to BS EN 13476 or UPVC (UD / SN4 Min) to BS EN 1401 and shall comply with WIS 4-35-01 and be BSI kitemarked or equivalently certified.
- 9. 150mmØ pipework for public sewer diversion/adoption to be vitrified clay pipes, kitemark certified with flexible spigot and sockets joints complying with BS EN 295:2013. pipes 300mmØ and above to be concrete pipes and fittings to class m to BS5911.
- 10. All new and existing sewers to be retained are to be jet-cleaned and condition-surveyed by CCTV on completion of the works by the contractor. Applies also to the existing drains adjacent the new building and the site boundary. An additional CCTV survey of all drains beneath buildings is to be carried out prior to completion of floor construction. Any structural defects shall be repaired or replaced as required using appropriate and approved methods.
- 11. Access covers and frames shall comply with the loadings specified and to bs en 124:2015 and kitemarked or if recessed covers are to be specified then in accordance with facta association equivalent
- 12. All drainage connecting to the public sewer shall not commence until approval has been sought from the drainage authority.
- 13. No works are to be carried out in the public highway without relevant approval from the highways authority and utilities companies. works to be carried out by approved contractors only or appropriately supervised by the overseeing authority
- 14. Existing information shown to be verified on site including kerblines, drains, chambers, sewers, stub connections, existing invert levels and pipe sizes. any discrepancies to be reported to the engineer prior to any new construction.
- 15. Cover levels of manholes shown are approximate and are intended for guidance only and shall be adjusted to suit finished pavement levels on site by contractor. covers to be orientated to suit pavement finishes where appropriate.
- 16. Existing access covers and frames to be retained shall be checked to ensure they are of a suitable duty and condition for reuse and levels adjusted to suit proposed finished ground levels
- 17. Refer to architects/mechanical & electrical engineers drawings for setting out of sub-stacks, soil vent pipes, rain water pipes, floor gullies & other drainage pop up's.
- 18. Foul stack connections under building to be 100mmØ laid to minimum 1 in 40 gradient unless otherwise noted.
- 19. Foul drainage external to the building to be 100mmØ laid to a minimum 1 in 80 gradient where one or more WC is connected or min 1 in 40 otherwise.
- 20. All under-slab drainage to be clear of foundations unless shown otherwise with long radius bends kept to a minimum and used where unavoidable.
- 21. Soil pipe at head of each run to be vented to atmosphere.
- 22. DP connections to be laid to minimum 1 in 100 gradient and 100mmØ unless otherwise noted.
- 23. Any drainage constructed within 5 m of new or existing trees to be provided with proprietary roo barriers installed in accordance with manufacturers details to mitigate against the risk of root ingress/damage.
- 24. Where clearance between two pipe crossing is less than 300mm pipes shall be concrete encased at crossing point and provided with rocker pipes - see typical details.
- 25. Existing drainage shall be assumed to be live and appropriately maintained at all times during the works. existing drainage to be reconnected to newly constructed drainage system unless prover to be redundant for abandonment
- 26. Ends of any existing drains/sewers to be abandoned are to be plugged with Gen 3 concrete.
- 27. Unless agreed with the Building Control Officer (ref SFA7) Class Z bedding (concrete bed and
- surround) required where: refer to details. - Clay / Concrete pipelines with less than 1200 cover - Thermoplastics with less than 900mm cover
- Dimensions are from finished levels beneath traffic areas including footways likely to be overrun by vehicles exceeding 7.5T.
- 28. Road gully and linear drain connections to be 100mmØ unless noted otherwise with class z concrete bed and surround. class z concrete bed and surround with flexcell at pipe joints required to internal drains, with concrete backfill.
- 29. Refer to services consultants for details of existing and proposed services' / utility apparatus locations and protection/ diversions required.
- 30. The works shall be carried out by competent and experienced contractors. all operatives to have appropriate training with appropriate qualifications for the duties they are required to undertake.
- 31. Additional channel bends in manholes are required to assist branch flow directions, dependant on main channel orientation
- 32. Chamber types to be Type 3 in accordance with Sewers for adoption 7th edition (small dev

edition)

SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FUTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

CDM REGULATIONS 2015

REV DESCRIPTON

LEDBURY

**GUTHRIE ROBERTS** 

HEREFORDSHIRE

CLIENT

PROJECT

DRAWING



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DRAWING No. 1809 - 201 SCALE 1:200 @ A1 DRAWN BY RG DATE 12/23

MARKET STREET APARTMENTS,

DETAILED SURFACE AND FOUL

WATER DRAINAGE LAYOUT

DATE

