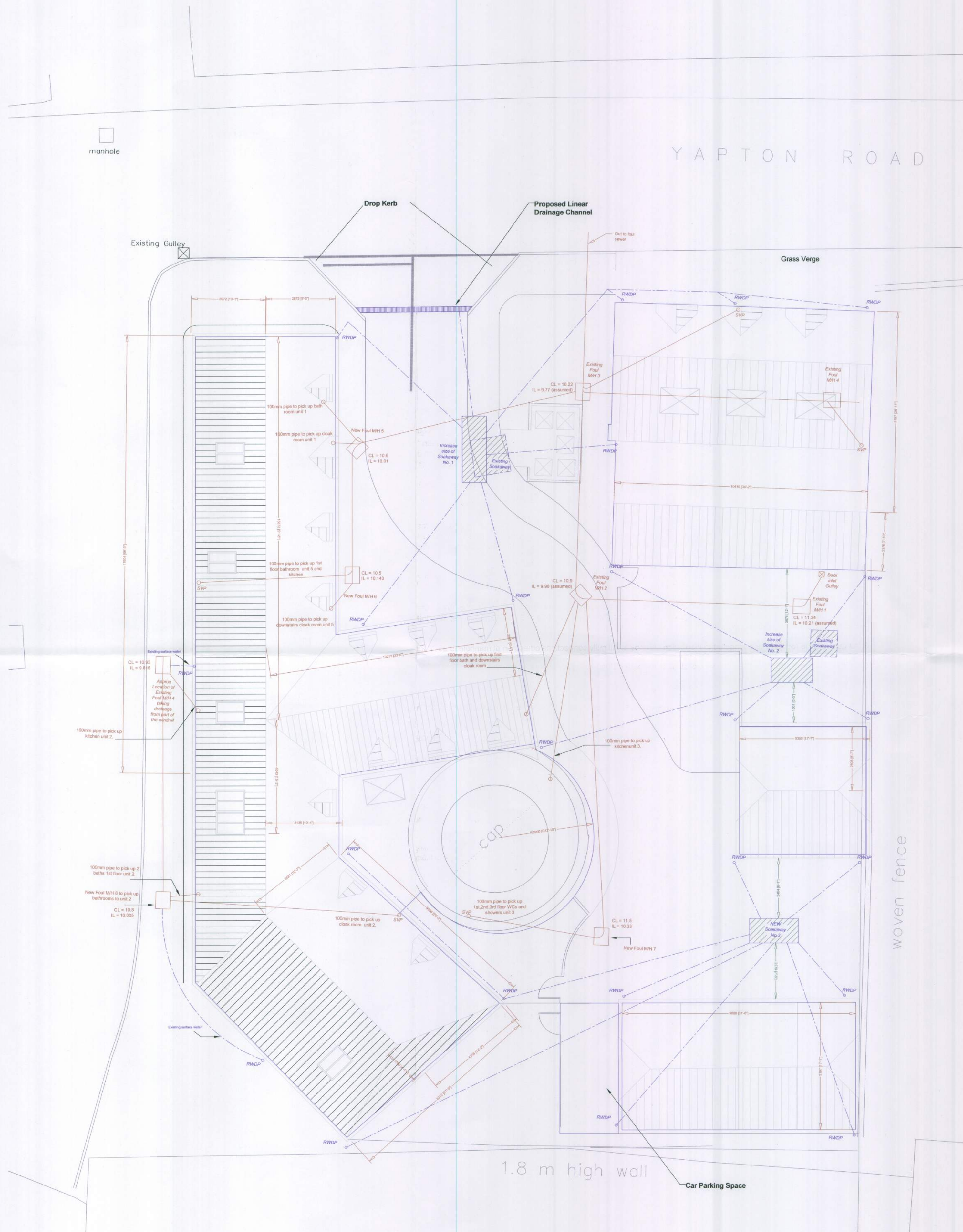




Manhole Schedule

(TBM = 10,000.)

M/H No.	Cover Level	Invert Level	Type of M/H
Existing FMH1	Approx 11.34	Approx 10.21	Existing Brick
Existing FMH2	Approx 10.9	Approx 9.98	Existing Brick
Existing FMH3	Approx 10.22	Approx 9.77	Existing Brick
Existing FMH4	Approx 10.93	Approx 9.815	Existing Brick
New FMH5	Approx 10.6	Approx 10.01	PVC 450mmØ
New FMH6	Approx 10.5	Approx 10.143	PVC 450mmØ
New FMH7	Approx 11.5	Approx 10.33	PVC 450mmØ
New FMH8	Approx 10.8	Approx 10.005	PVC 450mmØ

- * Existing & Proposed cover & invert Levels are Approximate only & must be checked on site by the Contractor, subject to finished levels on site.
- * Existing Drainage consist of a combined system and Proposed Drainage to be PVC @ a minimum gradient of 1:40.
- * PVC Inspection Chambers to be Wavin Osmo 'Universal' Inspection Chamber for use in Garden Areas, pathways & entrance driveways only to maximum invert depth of 1200mm (or similar approved).
- * Contractor to liaise with LBCO and ensure installation to meet Arun District Council approval.

Notes:

- All works to be constructed in strict accordance with specification of the Local Authority, BS 8301 1985 and BS EN 752-1.
- All pipe runs near buildings to comply with the Building Regulations 2002 Part H1. Where a pipe is within 1m of foundation the trench shall be filled with class GEN3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN3 concrete to a level below the lowest level from the foundation equal distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
- Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3concrete encasement.
- Where a pipe under a carriageway, has a depth of cover less than 1.2m the pipe shall be laid in class Z bedding.
- In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fireboard or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
- All private building drainage shall be constructed in accordance with BS EN 752-1. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of 1:40.
- All pipes, bends and junction materials shall be vitrified clay, extra strength of super strength to BS EN 295:1991, with flexible joints and kitmark certified. Alternatively all pipes and fittings can be UPVC conforming to BS 4660 and BS 548:1989 as appropriate and shall be laid in accordance with the manufactures specification.
- All gullies to be roddable or connected to inspection chambers. All gully connections other than at manhole to be 'Y' junctions.
- Gullies coincident with pedestrians/ drive crossings to have pedestrian type gully covers.
- All road gully connections to be 150mm diameter.
- All stub stacks to be fitted with air admittance valves where branch exceeds 12m except at the head of the run. Soil and vent pipes located at the head of the run to be installed with roof tile vent.
- Trench temporary formwork is required to all excavations exceeding 1.2m depth to provide adequate support and stability at all times.
- Sewers exceeding 1.2m depth to be constructed in single sections between manholes only. Trenches are to back filled prior to excavating the succeeding sewer run.
- All concrete and concrete products to be in accordance with BRE 363 for sulphates.
- All plumbing and wastes shall be installed in accordance with BS EN 12056: 2000 Gravity drainage systems inside buildings & Part H of the Current Building Regulations. Wastes from kitchen sink, bath & showers to be 40mm PVC with hand basin 32mm PVC all with 75mm seal traps, W.C to be 110mm PVC with 50mm water seal, all connecting into SVP. Waste pipe from shower room to consist 50mm diameter due to length of run.
- SVP's to terminate 900mm above opening and within 3m. Soil pipe to be extended between rafters to apex roof void, terminating through roof coverings with lead collar & balloon grating. SVP to boxed in with a mass duct lining of 15kg/m2 (e.g. 1No. layer of 12.5mm Plasterboard and 1No. layer of 9.5mm Plasterboard). SVP to be wrapped in 25mm unfaced mineral wool, as detailed on the drawings.

Drainage Philosophy Statement:

The drainage for the proposed development utilises the existing manholes and foul drainage routes with the addition of four new manholes to connect into the existing drainage and discharge into the existing main sewer, as is current on site. The proposed development does not increase the rainwater run off to that of existing. Two new soakways are to be installed and it is proposed to increase the size of the existing soakaway as detailed on the proposed site plan and supporting calculations above.

The proposed drainage layout has been designed in accordance with Approved Document Part H of the Building Regulations, 'Drainage and Waste Disposal' and the velocities in accordance with BS EN 12056, BS EN 752.

Statutory Undertakers Details:

Connecting to existing.

Southern Water Services Ltd, Southern House, Yeoman Road, Worthing, BN13 3NX.

Soakaway Calculations:

Soakaway No.1 Vol = A x (50/3000)

Roof Area = 224m2
Drive Area = 61m2

Soakaway 285 x 0.01666
= 4.749

SAY 5m3 size of Soakaway.

Soakaway No.2 Vol = A x (50/3000)

Roof Area = 120m2
Drive Area = 22m2

Soakaway 142 x 0.01666
= 2.365

SAY 2.5m3 size of Soakaway.

Soakaway No.3 Vol = A x (50/3000)

Roof Area = 148m2
Drive Area = 80m2

Soakaway 228 x 0.01666
= 3.798

SAY 4m3 size of Soakaway.

NOTES

This drawing is the property of McAndrew Martin and must not be reproduced in part or whole or used for the execution of works without their permission.

All dimensions to be checked on site prior to commencement of any construction works and McAndrew Martin notified of any discrepancy via the Supervising Officer.

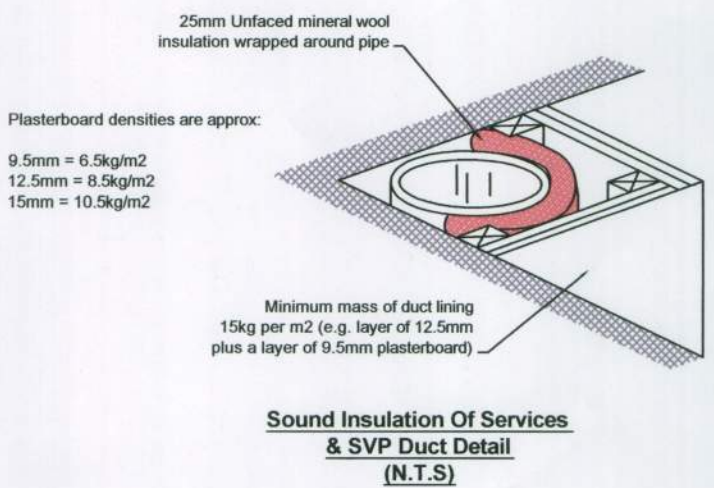
Figured dimensions are to be used in preference to scaled dimensions. However for Planning purposes scaling is permitted.

No deviation from this drawing will be permitted without the express consent of McAndrew Martin via the Supervising officer.

All works are to comply with the current edition of the Building Regulations and British Standards.

Legend

- Proposed 100mmØ Foul Water Drainage
- Proposed 100mmØ Surface Water Drainage



CLIENT
Mr & Mrs B. A. Lee
Barnham Windmill House
Barnham Windmill
Yapton Road
Barnham
West Sussex
PO22 0BD

PROJECT
Proposed Development to
Barnham Windmill
Yapton Road
Barnham
West Sussex
PO22 0BD

DRAWING TITLE

Proposed Drainage Plan

DATE
24.03.2009

DRAWN BY
MC & LS

SCALE
1:100 & 1:1250

CHECKED BY

AMENDMENTS

DATE

CHECKED BY

DRAWING NO.
091/P/047/12

REVISION
A1

McANDREW MARTIN
CHARTERED SURVEYORS

ONE LINKS HOUSE
FAIRWAY BUSINESS
CENTRE
DUNDAS LANE
PORTSMOUTH
HAMPSHIRE
PO3 5SL

TEL 023 9269 7193
FAX 023 9266 4678
office@mcandrewmartin.com



Chartered Building Consultancy

WWW.MCANDREW MARTIN.COM