



ALL BRANCH CONNECTIONS INTO SOIL STACKS SHOULD BE NO LOWER THEN 450MM ABOVE STACK INVERT LEVEL.

RWH UNITS SHALL HAVE MINIMUM VOLUME OF 1871 LITRES PER UNIT AND SHALL SERVE TOILETS ONLY. ALL MECHANICAL & ELECTRICAL REQUIREMENTS FOR RWH UNITS SHALL BE DESIGNED BY OTHERS.

FOR ALL DRAINAGE SLAB PENETRATIONS SEE ARCHITECTS SETTING OUT DRAWINGS

DO NOT SCALE OFF THIS DRAWING

GENERAL NOTES

This drawing to read in conjunction with all relevant structural and architectural drawings and specifications.

All dimensions to be checked on site by the contractor / fabricator prior to commencement of works.

All dimensions are in millimetres unless stated otherwise.

All works to be carried out in strict accordance with the engineer's specifications, relevant British Standards and where applicable Local Authorities requirements.

For final setting out information relating to grid lines and wall positions refer to the architect's drawings.

All floor levels to be confirmed by architect prior to construction

All cover levels to be confirmed by architect prior to construction

All drainage penetrating through floor slabs and rainwater pipe locations taken from architects drawings. Architect to confirm locations prior to construction.

EXISTING SERVICES

Road signs and lamp columns on the site periphery to be re-sited if required by, and to the approval of, the Local Authority.

Contractor to satisfy themselves that existing and proposed services do not clash with proposed drainage

Known existing services are indicated on the plan where they cross the proposed drainage. The exact type and location shall be confirmed by the contractor prior to start of works to ensure that proposed drainage levels do not interfere with services. All discrepancies shall be reported to engineer immediately.

The following existing service information is indicated on this drawing and has been obtained from the sources listed.

EXISTING SERVICE	OBTAINED FROM
SEWERS	AS SHOWN
GAS	NOT INDICATED
ELECTRICITY	NOT INDICATED
TELEPHONE	NOT INDICATED
CABLE	NOT INDICATED
OTHERS	NOT INDICATED

The contractor shall check all existing cover / invert levels and pipe / sewer sizes on site prior to start of works to ensure proposed drainage can be constructed as indicated on the drawing. Any discrepancies to be reported to the engineer immediately.

All redundant drainage within site to be grubbed up, chased and sealed to approval of local authority

PROPOSED DRAINAGE

Outside edge of adopted sewer shall not encroach within 1m of kerb face. Outside edge of adopted manholes shall not encroach within 0.5m of kerb face.

Surface water drainage:

All private surface water drainage to be 100mm Ø at 1:100 gradient unless noted otherwise. Allowance to be made for driveway gullies and associated drain runs where applicable

Foul water / Combined drainage:

All private foul water drainage to be 100mm Ø at 1:80 gradient unless noted otherwise. Internal venting of drainage system to architect details

DRAINAGE KEY

- New combined drain / sewer
- - - Existing combined drain / sewer
- - - New surface water drain / sewer
- - - Existing surface water drain / sewer
- - - New foul water drain / sewer
- - - Existing foul water drain / sewer
- ABAN — Extg drainage to be abandoned to L.A. approval

EX MH IL: XXX IL: XXX Existing manhole / access chamber
 RWP Rainwater pipe location
 SP Soil pipe location
 SVP Soil vent pipe location
 FG Future Shower Gully
 BIG Back inlet gully
 EX G Existing Road gully
 RG New road gully
 DG New driveway gully

Rev	Date	Checked	Description	By
D	09.08.13	D.S	WETROOM SVP MOVED TO SUIT	M.A
C	08.08.13	D.S	SHOWER GULLY ADDED	M.A
B	08.08.13	D.S	SVP LOCATIONS REVISED	M.A
A	08.07.13	D.S	WORKING DRAWING	M.A

WORKING DRAWING

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Client: LHT

Project: PROPOSED DEVELOPMENT AT CHURCH RAIKE CHIPPING

Drawing title: PRIVATE DRAINAGE LAYOUT

Scale at A1	1:200	Drawing number	26192-620
Drawn by	MIKE ARMES	Revision suffix	D
Date	MAY 2012		

NOTE: - APPROX 36" PIPE ASSUMED TO BE WATER MAIN.

ANY PIPES, DRAINS, ELECTRICITY CABLE OR SEWERS CROSSING OVER THE PIPELINE SHALL BE LAID IN STEEL CONDUIT OR DUCTILE IRON PIPE AND ADEQUATELY SUPPORTED SO AS TO BE SELF-SUPPORTING OVER ANY SUBSEQUENT EXCAVATION WHICH MAY HAVE TO BE CARRIED OUT. THEY SHOULD EXTEND WELL INTO THE UNDISTURBED GROUND AT EACH SIDE OF THE PIPELINE TRENCH AND SHALL CROSS AS NEAR AS POSSIBLE TO 90 DEGREES TO THE PIPELINE. IN NO CASE SHALL ANY CROSSING BE MADE AT AN ANGLE OF LESS THAN 50 DEGREES. PROVIDED THAT GROUND CONDITIONS ARE SUITABLE, PIPES CROSSING BELOW THE PIPELINE SHALL BE CONSTRUCTED BY AN APPROVED TUNNELLING METHOD. A MINIMUM OF 300MM OF CLEARANCE MUST BE GIVEN TO ANY CROSSING ABOVE OR BELOW THE PIPELINE. CARE SHOULD BE TAKEN WHEN SELECTING BACKFILL MATERIAL FOR THE PIPELINE AS THEY MAY AFFECT OR DAMAGE IT.

NO ALTERATION TO THE EXISTING GROUND LEVELS OR SURFACE USE OF THE EASEMENT WIDTH SHALL BE MADE WITHOUT PRIOR PERMISSION. NOTICE SHALL ALSO BE GIVEN OF ANY PROPOSAL TO ALTER GROUND LEVELS OR THE SURFACE OF LAND ADJOINING THE EASEMENT WIDTH.

REFER TO UNITED UTILITIES GUIDELINE REF NO. 90048 FOR WORKING IN EASEMENT WIDTH.

CONTRACTOR TO INVESTIGATE INVERT LEVEL OF EXISTING FOUL DRAINAGE AND REPORT LEVEL TO ENGINEER TO CONFORM DRAINAGE DESIGN PIPES TO DRAINAGE WORKS PROCEEDING

5.0m x 2.0m x 1.0m DEEP BELL SHAPE ATTENUATION IL: 119.70. CONTRACTOR TO ALLOW FOR CONSTRUCTION TOLERANCES IN ACCORDANCE WITH MANUFACTURERS DESIGN AND DETAIL. MIN 900mm COVER.

NEW NOTICE TO OUTGOING PIPES MAIN DISCHARGE SHALL NOT EXCEED 5 L/S

CELLULAR ATTENUATION