

DRAINAGE NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
2. ALL DRAINAGE WORK TO BE CARRIED OUT IN ACCORDANCE WITH BS 8301, BS 8005 AND THE BUILDING REGULATIONS.
3. ALL PIPES ARE TO HAVE SURROUND IN ACCORDANCE WITH ARCHITECTS DRAWINGS.
4. FOR EXACT LOCATION OF RAIN WATER AND FOUL WATER OUTLETS, REFER TO ARCHITECTS DRAWINGS.
5. SURFACE WATER DRAINS SHALL BE EITHER H.D.P.E. RIDGIDRAIN TWINWALL CARRIER PIPE BY POLYPIPE PLC (OR SIMILAR APPROVED) TO B.S EN 1401-1 OR P.C.C. PIPES TO B.S 5911 (Part 100) OR VITRIFIED CLAY TO B.S 85.
6. FOUL WATER DRAINS SHALL BE VITRIFIED CLAY TO B.S. EN 295.
7. ALL GRP UNDERGROUND TANKS ARE TO BE BEDDED ON AND ENCASED IN 225mm RC30 20mm AGG. CONCRETE STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
8. ROAD GULLY OUTLET PIPE INVERT LEVELS TO BE 600mm BELOW TOP OF GRATING LEVEL.
9. ALL MANHOLE AND INSPECTION CHAMBER COVERS, FRAMES AND DRAINAGE CHANNELS IN TRAFFICKED AREAS SHALL COMPLY TO EITHER B.S. 487 - PART 1 HEAVY DUTY COVERS TO M40, OR B.S. EN 124 GRADE D400 (11.5 TONNE WHEEL LOADING) VENTED COVERS FOR SYPHONIC DRAINAGE ONLY.
10. FOR DRAINAGE CONSTRUCTION AND PIPE BED DETAILS REFER TO DRAWING No. 355577 & ??.
11. ALL DRAINAGE BRANCHES TO BE 100mm FOR FOUL WATER & 150mm FOR SURFACE WATER UNLESS MARKED OTHERWISE.
12. ALL SOIL & VENT STACKS TO HAVE RODDABLE ACCESS 150mm ABOVE GROUND FLOOR SLAB LEVEL WITH REMOVABLE ACCESS PLATES.
13. ALL DRAINAGE CHANNELS TO HAVE ACCESS CHAMBER AT ENDS OF RUNS & BE RODDABLE EVERY 30m THEREAFTER.
14. ALL SLOTDRAIN DRAINAGE TO HAVE SUMP UNITS AT OUTLETS OF RUNS & HAVE RODDABLE ACCESS POINTS EVERY 30m THEREAFTER.
15. ALL SHALLOW DRAINAGE (<900mm COVER) AND DRAINAGE BELOW FLOOR SLAB TO BE INCASED IN MIN 150mm CONCRETE SURROUND.
16. ALL CONCRETE SURROUNDS FOR THE DRAINAGE TO BE CLASS DC2 (SULPHATE RESISTING) OR COMPLY WITH THE SOIL INVESTIGATION.

LEGEND.

- 1200mm Ø MANHOLE & DRAIN RUN
FOUL WATER - RED
CLEAN SURFACE WATER - BLUE
DRY SURFACE WATER - GREEN
- 1500mm Ø MANHOLE & DRAIN RUN
CLEAN SURFACE WATER - BLUE
FOUL WATER - RED
- 1500mm Ø MANHOLE & DRAIN RUN
FOUL WATER - RED
- EXISTING FOUL WATER SEWER
- EXISTING SURFACE WATER SEWER
- TRAPPED VARD GULLY
- 500C ULTRA SLOTT DRAINAGE CHANNEL
300mm CO CONCRETE SUBGROUND
- CLASS 1 BYPASS PETROL
INTERRUPTORS (CONCRETE REFERENCES)
OR SIMILAR EA APPROVED
MANUFACTURER
- M.O.P.E. RISING MAIN T.B.C BY
PACKAGED PUMP MANUFACTURER
- ATTENUATION LIMITED TANK SYSTEM
SURROUNDED BY FULLY SEALED IMPERMEABLE MEMBRANE
(WELDED BUTYL LINER OR SIMILAR APPROVED)
- DENOTES EXISTING DRAIN ROUTE NOT REQUIRED
- FLOOR FLOW ROUTING IN EXCESSIVE CONDITIONS

SURFACE WATER DESIGN CRITERIA
DISCHARGE RATE = 2.3 l/s)
BASED ON 5 l/s/Ha (Greenfield Run-off)
Soakaway designed for 1:100 year return
storm + 30% climate change
using FEH Rainfall Figures

- 5 DENOTES DRAINAGE REPAIR REFERENCES**
- 1 - MANHOLE COVERS TO BE RE-USED AND RE-SET
 - 2 - CEMENT BLOCKAGE
 - 3 - CEMENT BLOCKAGE
 - 4 - CEMENT BLOCKAGE
 - 5 - CEMENT BLOCKAGE
 - 6 - CRACKED PIPE - REPLACE 4m LENGTH
 - 7 - REPLACE CRACKED PIPE
 - 8 - CEMENT BLOCKAGE
 - 9 - CRACKED PIPE - REPLACE 3m
 - 10 - CRACKED PIPE - REPLACE 3m
 - 11 - CEMENT BLOCKAGE
 - 12 - CRACKED PIPE - REPLACE 5m
 - 13 - CRACKED PIPE - REPLACE 3m

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE ADDITIONAL RISKS:

CONSTRUCTION
IT IS CONSIDERED THAT THE PROPOSED WORKS ARE WITHIN THE SCOPE OF A COMPETENT CONTRACTOR AND AS SUCH NO UNUSUAL HAZARDS HAVE BEEN IDENTIFIED, WITH THE EXCEPTION OF THE FOLLOWING:
THE CONTRACTOR TO PROVIDE METHOD STATEMENTS TO HIGHLIGHT & MINIMISE RISKS FOR ELEMENTS OF WORK INDICATED ON THIS DRAWING MAINLY WORKING AT DEPTH & THE REQUIRED TEMPORARY SUPPORT FOR EARTHWORKS

MAINTENANCE/CLEANING/OPERATION
JETTING OF PIPES/MANHOLES TO BE BY UNDERTAKEN AT REGULAR INTERVALS (APPROX 6 MONTHS) BY SPECIALIST

DECOMMISSIONING/DEMOLITION
NO SPECIAL REQUIREMENTS

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

REV	DATE	DESCRIPTION	CHK	DRN
F	18.02.19	PIPE NUMBERS AND EXCEEDANCE	TC	CE
E	15.02.19	ATT. TANK CO-ORDS ADDED	TC	DW
D	14.02.19	ATT. TANK L.L. REVISED	TC	DW
C	22.01.19	CHANNEL DETAILS ADDED	TC	CE
B	21.01.19	DRAINAGE CHANNEL REVISED	TC	DW
A	19.11.18	CONSTRUCTION ISSUE	TC	LD
T1	26.09.18	TENDER ISSUE	TC	LD
P1	26.07.18	PRELIMINARY ISSUE	TC	LD

NOTE: Where a "P" revision applies, this drawing is NOT to be used for construction

T. R. COLLIER & ASSOCIATES.
CONSULTING ENGINEERS

Rochester House 275 Bedford Road
Chesham Bucks MK7 7DA
Telephone 01295 602000
Facsimile 01295 500300
Email: admin@trcollier.co.uk

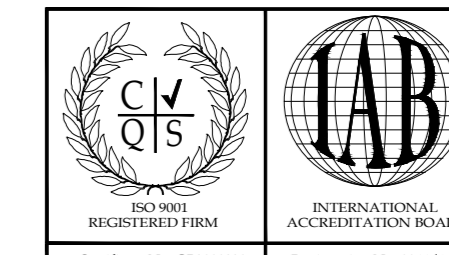
PROJECT
UNIT 200
RUSHCOTE AVENUE, BANBURY

TITLE
DRAINAGE LAYOUT

ARCHITECT
UMC ARCHITECTS

DRAWN	DESIGNED	CHECKED
LD	TC	TC

DATE: June 18 SCALE: 1:300 STATUS: CONSTRUCTION



3852/50