

SURFACE WATER DRAINAGE MANHOLE SCHEDULE					
MANHOLE REF.	BASE / INVERT LEVEL	C.L.	DEPTH	DI. (MN SIZE)	MN. COVER SIZE & GRADE
S1*	61.320	65.300	1.100	1200mm DIA. PCC RINGS	D400 (600x600)
S2*	63.870	65.030	1.160	1200mm DIA. PCC RINGS	D400 (600x600)
S3	63.600	65.260	1.610	1200mm DIA. PCC RINGS	C250 (600x600)
S4*	64.600	65.260	0.660	450mm DIA. POLYPROPYLENE	C250 (600x600)
S5*	63.540	65.270	1.730	1200mm DIA. PCC RINGS	C250 (600x600)
S6*	61.530	65.260	3.730	1200mm DIA. PCC RINGS	C250 (600x600)
S7*	61.360	62.360	1.000	600mm DIA. POLYPROPYLENE	C250 (600x600)
S8*	61.310	62.000	0.690	450mm DIA. POLYPROPYLENE	C250 (600x600)
S9*	61.175	62.000	0.825	600mm DIA. POLYPROPYLENE	C250 (600x600)
S10*	59.900	62.560	2.660	1200mm DIA. PCC RINGS	D400 (600x600)
S11*	64.500	65.250	0.750	450mm DIA. POLYPROPYLENE	C250 (600x600)
S12	64.150	64.900	0.750	450mm DIA. POLYPROPYLENE	C250 (600x600)
S13	64.965	65.150	1.185	1200mm DIA. PCC RINGS	D400 (600x600)
S14	63.600	64.700	1.100	1200mm DIA. PCC RINGS	D400 (600x600)
S15	62.250	61.500	1.100	600mm DIA. POLYPROPYLENE	C250 (600x600)
S16	59.900	62.560	2.660	1200mm DIA. PCC RINGS	D400 (600x600)
S17	59.700	61.650	1.950	1200mm DIA. PCC RINGS	D400 (600x600)
S18	64.160	63.660	1.500	1200mm DIA. PCC RINGS	D400 (600x600)
S19	63.415	64.910	1.500	1200mm DIA. PCC RINGS	D400 (600x600)
S20	61.705	63.380	1.675	1200mm DIA. PCC RINGS	D400 (600x600)
S21	59.200	61.770	2.570	1200mm DIA. PCC RINGS	D400 (600x600)
S22	58.550	60.750	2.200	1200mm DIA. PCC RINGS	D400 (600x600)
S23	58.350	60.200	1.850	1200mm DIA. PCC RINGS	D400 (600x600)
S24	58.625	59.625	1.000	1200mm DIA. PCC RINGS	D400 (600x600)
S25	57.800	59.750	1.950	1500mm DIA. PCC RINGS	D400 (600x600)
S26	57.670	58.100	1.430	1500mm DIA. PCC RINGS	D400 (600x600)

FOUL WATER DRAINAGE MANHOLE SCHEDULE					
MANHOLE REF.	LL	C.L.	DEPTH	DI. (MN SIZE)	MN. COVER SIZE & GRADE
F1*	64.540	65.710	0.870	450mm DIA. POLYPROPYLENE	C250 (600x600)
F2*	64.300	65.580	1.280	1200mm DIA. PCC RINGS	D400 (600x600)
F3	64.215	65.270	1.055	1200mm DIA. PCC RINGS	C250 (600x600)
F4*	64.325	65.270	0.945	1200mm DIA. PCC RINGS	C250 (600x600)
F5	64.185	68.280	1.595	1200mm DIA. PCC RINGS	C250 (600x600)
F6	64.000	65.260	1.260	1200mm DIA. PCC RINGS	C250 (600x600)
F7*	61.200	62.030	0.830	450mm DIA. POLYPROPYLENE	C250 (600x600)
F8*	61.080	62.030	0.950	450mm DIA. POLYPROPYLENE	C250 (600x600)
F9*	61.040	62.600	1.560	450mm DIA. POLYPROPYLENE	C250 (600x600)
F10*	60.945	62.830	1.885	1200mm DIA. PCC RINGS	D400 (600x600)
F11	60.660	61.660	1.000	1200mm DIA. PCC RINGS	D400 (600x600)
F12	58.600	60.200	1.600	1200mm DIA. PCC RINGS	D400 (600x600)
F13	58.525	60.300	1.775	1200mm DIA. PCC RINGS	D400 (600x600)
F14	58.525	60.300	1.775	1200mm DIA. PCC RINGS	D400 (600x600)
F15	64.025	64.750	0.725	1200mm DIA. PCC RINGS	D400 (600x600)

* WHERE INDICATED MANHOLES ARE TO BE PROVIDED WITH FABRICATED RECESSED COVER AND FRAME TO ACCEPT SURROUNDING FINISHES. COVERS MUST ACHIEVE LOAD CLASS SPECIFIED

LD1 - ACO M1000 LINEAR DRAINAGE CHANNEL (OR SIMILAR APPROVED) WITH INTERNAL FALL & D400 GRATING

OL - DRAINAGE CHANNEL OUTLET WITH SILT TRAP

IC - 450mm DIA. POLYPROPYLENE LEVEL INVERT INSPECTION CHAMBER WITH 600x600mm GRADE C250 RECESSED COVER & FRAME WHERE REQUIRED TO ACCEPT SURROUNDING FINISHES. IL 64.425 UNLESS NOTED OTHERWISE.

IC2 - 450mm DIA. POLYPROPYLENE LEVEL INVERT INSPECTION CHAMBER WITH 600x600mm GRADE C250 RECESSED COVER & FRAME WHERE REQUIRED TO ACCEPT SURROUNDING FINISHES. IL 61.200 UNLESS NOTED OTHERWISE.

IC3 - 450mm DIA. POLYPROPYLENE LEVEL INVERT INSPECTION CHAMBER, 600mm DEEP WITH 600x600mm GRADE C250 RECESSED COVER & FRAME WHERE REQUIRED TO ACCEPT SURROUNDING FINISHES.

RE - RODDING EYE, 600mm DP, UNLESS NOTED OTHERWISE.

(RA) - RODDABLE ACCESS TO BE FITTED TO SVP ABOVE FLOOR LEVEL

ALL MANHOLES & INSPECTION CHAMBERS WITHIN PAVED AREAS TO HAVE RECESSED COVERS TO RECEIVE SURROUNDING SURFACING. LOAD CLASS SPECIFIED ABOVE TO BE ACHIEVED IN ALL CASES.

SVP REST BEND INVERT LEVEL AT GF TO BE 64.625 UNLESS NOTED OTHERWISE.

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16. ADOPT HEAVY DUTY MANHOLE COVERS & GULLY GRATES IN ALL TRAFFICKED AREAS

17. WHERE COVER TO CROWN OF PIPE IS LESS THAN 600mm CONCRETE ENCASEMENT (150mm MIN) IS TO BE PROVIDED TOGETHER WITH COMPRESSIBLE BOARD JOINTS AT EACH SOCKET/ELBOW JOINT FACE

18. ALL GULLY LINEAR DRAIN AND RWP CONNECTIONS TO BE 150mm DIA. U.N.O.

19. ALL SURFACE & FOUL WATER CONNECTIONS ARE SOFFIT TO SOFFIT, INCLUDING NEW PIPES ENTERING EXISTING MANHOLES UNLESS NOTED OTHERWISE

20. WHERE RWPS, SUB STACKS AND SVPS ARE CONNECTED DIRECTLY TO THE DRAIN, RODDING ACCESS POINTS ARE TO BE PROVIDED ABOVE FINISHED FLOOR/PATH LEVEL

21. ALL MANHOLES DEEPER THAN 1.0m TO HAVE METAL STEP IRONS OR FIXED LADDERS

22. ALL BRANCH PIPES FROM SVPS/STACKS TO BE 110mm DIA. UNLESS NOTED OTHERWISE

23. ALL REDUNDANT EXISTING DRAINAGE UNDER THE FOOTPRINT OF THE PROPOSED BUILDING TO BE GROUTED OUT OR FULLY GROUTED AND CAPPED

24. ANY BACKDROP CONNECTIONS ON THE FOUL DRAINAGE SYSTEM TO BE 45 DEGREE RAINING BACK DROPS

25. ALL INTERNAL MANHOLES TO BE COVER SEALED AND HAVE MECHANICALLY FIXED AIRTIGHT COVERS AND FRAMES

26. PROPOSED EXTERNAL MANHOLE COVER SIZES AND ORIENTATION INDICATED IS SUBJECT TO CONFIRMATION FROM THE ARCHITECT/LANDSCAPE DESIGNER

27. IT IS ASSUMED ALL OF EN-SUITE SHOWER GULLIES ARE TO BE CONNECTED TO THE ADJACENT SVP WITHIN THE DEPTH OF THE FLOOR FINISHES

28. ALL FOUL DRAINS WITHIN 200mm OF UNDERSIDE OF CONCRETE GROUND BEARING SLAB TO BE ENCASED WITH 150mm CONCRETE CAST INTEGRAL WITH SLAB

1. DO NOT SCALE FROM THIS DRAWING

2. WORK TO ONLY FIGURED DIMENSIONS AND CO-ORDINATES

3. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY

4. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SPECIALIST DRAWINGS SPECIFICATIONS AND DETAILS

5. THE CONTRACTOR SHALL CHECK THE LEVELS AND CONDITION OF ALL EXISTING DRAINAGE PRIOR TO THE CONSTRUCTION OF ANY NEW DRAINAGE TO ENSURE THE PROPOSED DESIGN CAN BE ACHIEVED

6. COVER AND INVERT LEVELS, PIPE DIAMETERS AND PIPE RELATIONSHIPS OF EXISTING DRAINAGE TO BE CHECKED ON SITE AND ANY DISCREPANCIES REPORTED TO ENGINEER

7. BEFORE EXCAVATION COMMENCES THE CONTRACTOR SHALL ASCERTAIN THE DEPTHS, SIZES AND LOCATION OF ALL SERVICES TO BE CROSSED. ANY CONFLICT IN LEVELS BETWEEN NEW AND EXISTING SERVICES/SEWERS TO BE NOTICED TO THE ENGINEER

8. ALL ADAPTABLE DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE WATER AUTHORITIES REQUIREMENTS AND SEWERS FOR ADOPTION 7TH EDITION

9. FOR ALL ADOPTED DRAINAGE WORKS THE MAIN CONTRACTOR SHALL USE A SUB-CONTRACTOR APPROVED BY THE LOCAL WATER AUTHORITY TO CARRY OUT THE WORK

10. THE CONTRACTOR IS TO APPLY TO AND USE WITH THE WATER AUTHORITY ENGINEER IN RESPECT OF ANY NEW CONNECTIONS INTO THE EXISTING PUBLIC SEWERS, AFFORDING THEM REASONABLE NOTICE TO INSPECT THE WORKS DURING CONSTRUCTION

11. THE CONTRACTOR IS TO COMPLY WITH THE NEW ROADS AND STREET WORKS ACT 1991 FOR ALL WORKS IN THE PUBLIC HIGHWAY

12. ALL WORKS IN THE PUBLIC HIGHWAY SHALL BE CARRIED OUT WITH THE PRIOR APPROVAL AND TO THE SATISFACTION OF THE LOCAL AUTHORITY

13. ALL PRIVATE DRAINAGE WORKS TO BE IN ACCORDANCE WITH PART 8 OF THE BUILDING REGULATIONS, BS EN 752 AND BS EN 12056

14. ALL PIPEWORK TO BE EVC (HIGHTWORTH SUPERLEVEL) OR CONCRETE WITH CLASS B BEDDING. PLASTIC MAY BE ADOPTED OUTSIDE OF ANY VEHICULAR TRAFFICKED AREAS (PERMANENT AND TEMPORARY CONDITIONS). PLASTIC MAY BE USED AS AN ALTERNATIVE, SUBJECT TO PROVISION OF PRODUCT DATA SHEETS & ENGINEERS APPROVAL. ALL TO BE INSTALLED FULLY IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS

15. ALL BELOW SLAB FOUL DRAINAGE TO BE 100mm EVC OR CONCRETE UNO ON FLN. PLASTIC MAY BE USED AS AN ALTERNATIVE AS FOR NOTE 14 ABOVE

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FOUL WATER DRAINAGE SUBJECT TO CONFIRMATION OF ALL SVP, GULLIES & FOUL POP-UP POSITIONS FROM ARCHITECT/M&E CONTRACTOR. SETTING OUT OF ALL POP-UPS TO BE TAKEN FROM & BE STRICTLY IN ACCORDANCE WITH ARCHITECTS DRAWINGS

POSITIONS & SETTING OUT OF ALL RWPS TO BE TAKEN FROM ARCHITECTS DRAWINGS.

LEGEND

- PROPOSED SURFACE WATER DRAIN
- PROPOSED FOUL WATER DRAIN
- EXISTING SURFACE WATER DRAIN
- EXISTING FOUL WATER DRAIN
- PROPOSED PERMEABLE PAVING PERFORATED LINK PIPE

- INDICATES AREAS OF PERMEABLE PAVEMENT CONSTRUCTION (NON-INFILTRATION). 350mm THK SUB-BASE (20mm TO 50mm NOM. SIZE) ENCAPSULATED IN IMPERMEABLE MEMBRANE. BLOCK PAVING OR POROUS TARMAC SURFACE FINISH TO ARCHITECT/LANDSCAPE DESIGNER SPECIFICATION.
- INDICATES AREAS OF NO-DIG CONSTRUCTION UTILISING CELLULAR CONFINEMENT SYSTEM (CELLWEB TRP OR SIMILAR APPROVED) WITH PERMEABLE BLOCK OR POROUS TARMAC SURFACE FINISH TO ARCHITECT/LANDSCAPE DESIGNER SPECIFICATION.

CONSTRUCTION

C1 MJC 08.08.21 CONSTRUCTION (PLANNING)	
P1 MJC 08.08.21 PRELIMINARY TENDER	
REV INITIALS DATE	
STATUS	
CAMERON DARROCH ASSOCIATES CONSULTING CIVIL AND STRUCTURAL ENGINEERS	
KEITHS BUSINESS CENTRE PRIVATE ROAD NO. 2, COLWICK, NOTTINGHAM NG4 3AR	
TEL: 0115 940051 FAX: 0115 940065	
E-MAIL: cda@cameron-engineering.co.uk	
CLIENT	JOB NO
BARCHESTER	CDA-2651
PROJECT	DRG NO
CARE HOME, WORTHING ROAD, HORSHAM	03
TITLE	REVISION
PROPOSED DRAINAGE LAYOUT	C1
	SCALE
	1:125 (A1)
	DATE
	JULY 2020
	DRAWN BY
	MJC
	CHKD
	SEL