

DO NOT SCALE FROM THIS DRAWING

SURFACE WATER DRAINAGE MANHOLE SCHEDULE					
MANHOLE REF.	BASE INVERT LEVEL	C.L.	DEPTH	DA (MIN SIZE)	MIN. COVER SIZE & GRADE
S1	67.200	68.100	0.900	600mm DA POLYPROPYLENE	C250 (800x600)
S2	67.125	68.100	0.975	1200mm DA PCC RINGS	C250 (800x600)
S3	67.350	68.100	0.750	450mm DA POLYPROPYLENE	B125 (400x300)
S4	67.350	68.100	0.750	450mm DA POLYPROPYLENE	C250 (800x600)
S5	66.500	67.500	1.000	1200mm DA PCC RINGS	D400 (800x600)
S6	66.620	68.180	1.560	1200mm DA PCC RINGS	D400 (800x600)
S7	66.530	68.230	1.700	1200mm DA PCC RINGS	D400 (800x600)
S8	67.330	68.130	0.800	450mm DA POLYPROPYLENE	C250 (800x600)
S9	67.330	68.130	0.800	450mm DA POLYPROPYLENE	B125 (400x300)
S10	66.350	68.000	1.650	1200mm DA PCC RINGS	C250 (800x600)
S11	66.275	68.100	1.825	1200mm DA PCC RINGS	C250 (800x600)
S12	67.060	68.130	1.070	1200mm DA PCC RINGS	C250 (800x600)
S13	67.000	68.130	1.130	1200mm DA PCC RINGS	C250 (800x600)
S14	66.775	68.120	1.345	1200mm DA PCC RINGS	C250 (800x600)
S15	66.330	68.100	1.770	1200mm DA PCC RINGS	C250 (800x600)
S16	66.530	67.800	2.270	1200mm DA PCC RINGS	C250 (800x600)
S17	67.250	68.200	1.000	1200mm DA PCC RINGS	D400 (800x600)
S18	66.800	70.300	1.400	1200mm DA PCC RINGS	D400 (800x600)
S19	66.140	70.340	1.200	1350mm DA PCC RINGS	D400 (800x600)

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 RECESSED COVER & FRAME WHERE REQUIRED TO ACCEPT SURROUNDING FINISHES. IL 67.475 UNLESS NOTED OTHERWISE.

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 TO BE 67.275 UNLESS NOTED OTHERWISE.

POSITIONS & SETTING OUT OF ALL RWP'S TO BE TAKEN FROM ARCHITECTS DRAWINGS.

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

FOUL WATER DRAINAGE MANHOLE SCHEDULE					
MANHOLE REF.	LL	C.L.	DEPTH	DA (MIN SIZE)	MIN. COVER SIZE & GRADE
F1*	67.115	68.130	1.015	1200mm DA PCC RINGS	C250 (800x600)
F2*	67.015	68.130	1.115	1200mm DA PCC RINGS	C250 (800x600)
F3*	66.900	67.950	1.050	1200mm DA PCC RINGS	D400 (800x600)
F4	66.780	68.000	1.220	1200mm DA PCC RINGS	D400 (800x600)
F5	67.050	68.000	0.950	1200mm DA PCC RINGS	C250 (800x600)
F6*	66.880	68.000	1.120	1200mm DA PCC RINGS	D400 (800x600)
F7*	66.600	68.450	1.850	1200mm DA PCC RINGS	D400 (800x600)
F8	66.200	70.300	1.100	1200mm DA PCC RINGS	D400 (800x600)

NEW MANHOLE CONSTRUCTED ON LINE OF EXISTING BRICK SEWER. ALL TO TW REQUIREMENTS VIA S106 OBTAINED BY THE CONTRACTOR.

NEW CONNECTION TO BE FORMED INTO EXISTING CHAMBER. MANHOLE TO BE RECESSED AS NECESSARY. ALL TO TW REQUIREMENTS VIA S106 OBTAINED BY THE CONTRACTOR.

- DO NOT SCALE FROM THIS DRAWING
- WORK TO ONLY FIGURED DIMENSIONS AND CO-ORDINATES
- ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SPECIALIST DRAWINGS SPECIFICATIONS AND DETAILS
- 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
- COVERS AND INVERT LEVELS, PIPE DIAMETERS AND PIPE RELATIONSHIPS OF EXISTING DRAINAGE TO BE CHECKED ON SITE AND ANY DISCREPANCIES REPORTED TO ENGINEER
- 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 NOTIFIED TO THE ENGINEER
- ALL ADAPTABLE DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE WATER AUTHORITIES REQUIREMENTS AND SERIES FOR ADOPTION 7TH EDITION
- FOR ALL ADOPTED DRAINAGE WORKS THE MAIN CONTRACTOR SHALL USE A SUB-CONTRACTOR APPROVED BY THE LOCAL WATER AUTHORITY TO CARRY OUT THE WORKS
- THE CONTRACTOR IS TO APPLY TO AND LIAISE 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
- THE CONTRACTOR IS TO COMPLY WITH THE NEW ROADS AND STREET WORKS ACT 1991 FOR ALL WORKS IN THE PUBLIC HIGHWAY
- ALL WORKS IN THE PUBLIC HIGHWAY SHALL BE CARRIED OUT WITH THE PRIOR APPROVAL AND TO THE SATISFACTION OF THE LOCAL AUTHORITY
- FOR PRIVATE DRAINAGE WORKS TO BE IN ACCORDANCE WITH PART 10 OF THE BUILDING REGULATIONS, BS EN 752 AND BS EN 12056
- ALL PREWORK TO BE DONE IN ACCORDANCE WITH THE WATER AUTHORITY'S REQUIREMENTS AND SERIES FOR ADOPTION 7TH EDITION
- CONCRETE WITH CLASS 8 BEDDING 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
- ALL BELOW SLAB FOUL DRAINAGE TO BE 100mm ESWC OR CONCRETE UNO. ON PLY PLASTIC MAY BE USED AS AN ALTERNATIVE AS FOR NOTE 14 ABOVE
- IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS
- ADOPT HEAVY DUTY MANHOLE COVERS & GULLY GRATES IN ALL TRAFFICED AREAS
- 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/SLAVE JOINT FACE
- ALL GULLY LINEAR DRAIN AND RWP CONNECTIONS TO BE 150mm DIA. U.K.O.
- ALL SURFACE & FOUL WATER CONNECTIONS ARE TO BE SOFFIT, INCLUDING NEW PIPES ENTERING EXISTING MANHOLES UNLESS NOTED OTHERWISE
- WHERE RWPS, STUB STACKS AND SVPS ARE CONNECTED DIRECTLY TO THE DRAIN, RODDING ACCESS POINTS ARE TO BE PROVIDED ABOVE FINISHED FLOOR/SLAB LEVEL
- ALL MANHOLES DEEPER THAN 1.0m TO HAVE METAL STEP IRONS OR FIXED LADDERS
- ALL BRANCH PIPES FROM SVPS/STACKS TO BE 110mm DIA. UNLESS NOTED OTHERWISE
- ALL REDUNDANT EXISTING DRAINAGE UNDER THE FOOTPRINT OF THE PROPOSED BUILDING TO BE GROUTED OUT OR FULLY GROUTED AND CAPPED
- ANY BACKDROP CONNECTIONS ON THE FOUL DRAINAGE SYSTEM TO BE 45 DEGREE KINKING BACK DROPS
- ALL INTERNAL MANHOLES TO BE DOUBLE SEALS AND HAVE MECHANICALLY FIXED AIRTIGHT COVERS AND FRAMES
- PROPOSED EXTERNAL MANHOLE COVER LEVELS AND ORIENTATION INDICATED IS SUBJECT TO CONFIRMATION FROM THE ARCHITECT/LANDSCAPE DESIGNER
- IT IS ASSUMED ALL OF IN-SITUITE SHOWER GULLIES ARE TO BE CONNECTED TO THE ADJACENT SVP WITHIN THE DEPTH OF THE FLOOR FINISHES
- ALL FOUL DRAINS WITHIN 300mm OF ENCASUREMENT OF CONCRETE GROUND BEARING SLAB TO BE UNDERSED WITH 150mm CONCRETE CAST INTEGRAL WITH SLAB

PRELIMINARY TENDER

P2	MJC	17/06/23	UPDATED TO SUIT REVISED ARCHITECTS GA
P1	MJC	10/04/23	PRELIMINARY ISSUE
REV	INITIALS	DATE	DETAIL
STATUS			
CAMERON DARROCH ASSOCIATES CONSULTING CIVIL AND STRUCTURAL ENGINEERS KESTRE, BUSINESS CENTRE, PRIVATE ROAD No. 2, COLWICK, NOTTINGHAM NG4 3JF TEL: 0115 9400631 FAX: 0115 9400646 E-MAIL: structures@darroch-engineering.co.uk			
CLIENT	BARCHESTER	JOB NO	ODA-2638
PROJECT	CARE HOME, LOWER WOKINGHAM ROAD, FINCHAMPTON, CROTHORNE.	DRG NO	02
TITLE	PROPOSED DRAINAGE LAYOUT	REVISION	P2
		SCALE	1:125 @ A0
		DATE	APRIL 2025
		DRAWN BY	MJC
		CHKD	SEL

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 BLOCK PAVING CONSTRUCTION (NON-INFILTRATION)
- INDICATES AREAS OF 'NO DIG' CONSTRUCTION UTILISING CELLULAR CONFINEMENT SYSTEM (CELLULAR TRP OR SIMILAR APPROVED) WITH PERMEABLE BLOCK PAVED FINISH

0m 2.5m 5m 7.5m 10m 12.5m
SCALE 1:125 @ A0