



KEY

- PROPOSED FW DOMESTIC POLYPROPYLENE INSPECTION CHAMBER WITH INVERT LEVEL
- PROPOSED FOUL WATER DOMESTIC DRAIN RUN
- PROPOSED SW DOMESTIC POLYPROPYLENE INSPECTION CHAMBER WITH INVERT LEVEL
- PROPOSED SURFACE WATER DOMESTIC DRAIN RUN
- PROPOSED DOMESTIC RODDING EYE
- PROPOSED PRIVATE CELLULAR SOAK-A-WAY UNIT
- POROUS BLOCK PAVING TO DOMESTIC DRIVEWAYS
- POROUS BLOCK PAVING TO SHARED DRIVEWAYS
- POROUS BLOCK PAVING TO SITE ACCESS ROAD
- POROSITY TEST LOCATIONS

PLOT 1 + GARAGE trial pit 2

SOAK-A-WAY	CELLULAR	4.5m X 1m
COVER LEVEL	144.200	
INVERT OF SOAK-A-WAY	141.700	
LOWEST INCOMING INVERT LEVEL	143.500	
INFILTRATION RATE	0.03967m/hr	

TRIAL PIT 1	
I= 1.54188 X 10	m/sec
I= 0.0555m/hour	

PLOT 2 trial pit 2

SOAK-A-WAY	CELLULAR	4.5m X 1m
COVER LEVEL	144.200	
INVERT OF SOAK-A-WAY	141.700	
LOWEST INCOMING INVERT LEVEL	143.400	
INFILTRATION RATE	0.03967m/hr	

TRIAL PIT 2	
I= 1.0270 X 10	m/sec
I= 0.03967m/hour	

PLOT 3 trial pit 2

SOAK-A-WAY	CELLULAR	4.5m X 1m
COVER LEVEL	144.500	
INVERT OF SOAK-A-WAY	142.000	
LOWEST INCOMING INVERT LEVEL	143.500	
INFILTRATION RATE	0.03967m/hr	

TRIAL PIT 3	
I= 1.0912 X 10	m/sec
I= 0.039288m/hour	

PLOT 4 trial pit 3

SOAK-A-WAY	CELLULAR	4.5m X 1m
COVER LEVEL	144.800	
INVERT OF SOAK-A-WAY	142.200	
LOWEST INCOMING INVERT LEVEL	144.200	
INFILTRATION RATE	0.039288m/hr	

PLOT 5 trial pit 3

SOAK-A-WAY	CELLULAR	5m X 1m
COVER LEVEL	144.300	
INVERT OF SOAK-A-WAY	144.200	
LOWEST INCOMING INVERT LEVEL	143.500	
INFILTRATION RATE	0.039288m/hr	

PLOT 6

SOAK-A-WAY	CELLULAR	4.5m X 1m
COVER LEVEL	144.100	
INVERT OF SOAK-A-WAY	141.600	
LOWEST INCOMING INVERT LEVEL	143.200	
INFILTRATION RATE	0.039288m/hr	

PLOT 7 +GARAGE trial pit 1

SOAK-A-WAY	CELLULAR	5m X 1m
COVER LEVEL	144.300	
INVERT OF SOAK-A-WAY	142.800	
LOWEST INCOMING INVERT LEVEL	143.500	
INFILTRATION RATE	0.0555m/hr	

PLOT 8 trial pit 1

SOAK-A-WAY	CELLULAR	5m X 1m
COVER LEVEL	144.300	
INVERT OF SOAK-A-WAY	142.800	
LOWEST INCOMING INVERT LEVEL	143.500	
INFILTRATION RATE	0.0555m/hr	

PLOT 9 + GARAGE trial pit 1

SOAK-A-WAY	CELLULAR	5m X 1m
COVER LEVEL	143.400	
INVERT OF SOAK-A-WAY	140.900	
LOWEST INCOMING INVERT LEVEL	142.000	
INFILTRATION RATE	0.0555m/hr	

NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
- ALL DRAINAGE WORKS ARE TO COMPLY WITH THE REQUIREMENTS OF BS 752 BUILDING DRAINAGE AND BUILDING REGULATIONS 2000 APPROVED DOCUMENT H 2002 EDITION.
- ALL MATERIALS, UNLESS SPECIFIED OTHERWISE, SHALL COMPLY WITH THE RELEVANT BRITISH STANDARD. SOURCES OF MATERIALS ARE TO BE AGREED WITH THE EMPLOYER'S REPRESENTATIVE/ENGINEER IN ADVANCE OF THE WORKS.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING DRAWINGS AND DETAILS AND CONTRACT DOCUMENTATION
- ANY DISCREPANCIES IN THE DETAILS SHOWN TO BE REPORTED TO THE EMPLOYER'S REPRESENTATIVE/ENGINEER PRIOR TO CONSTRUCTION.
- LOCATION AND LEVELS OF EXISTING DRAINAGE RUNS ARE BASED UPON SEWER RECORD PLANS AND MUST BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS.
- ALL EXISTING SERVICES TO BE LOCATED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORKS.
- ALL DRAINAGE AND FITTINGS TO BE FLEXIBLY JOINTED CLAYWARE TO BS EN286 OR CONCRETE TO BS5911 PART 100 OR FLEXIBLY JOINTED UPVC PIPES AND FITTINGS TO WIS No 4-13-05.
- TYPICAL PIPE BEDDING TO DRAINAGE WHERE DEPTH TO SOFFIT IS GREATER THAN 900mm IN LANDSCAPED AREAS AND GREATER THAN 1200mm IN TRAFFICKED AREAS IS TO BE CLASS S (I.E. 10-14mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES UP TO 525Ø AND 20 - 40mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES GREATER THAN 525Ø).
- WHERE DEPTH TO SOFFIT OF DRAINAGE PIPEWORK IS LESS THAN 900mm IN LANDSCAPED AREAS AND LESS THAN 1200mm IN TRAFFICKED AREAS THEN PIPEWORK IS TO BE PROTECTED WITH 150mm MINIMUM THICK CONCRETE BED & SURROUND.
- BACKFILL TO DRAINAGE TRENCHES UNDER CARRIAGEWAYS TO BE TYPE 1 SUB-BASE MATERIAL. ELSEWHERE BACKFILL TO BE FREE DRAINING READILY COMPATIBLE MATERIAL, FREE FROM RUBBISH AND ORGANIC MATTER, FROZEN SOIL, CLAY LUMPS AND LARGE STONES. TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK.
- MANHOLE DIAMETERS SHOULD BE IN ACCORDANCE WITH THE TABLE BELOW:

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200+
375-450	1500
500-700	1500
750-900	1800
950-1200	2100

A FLEXIBLE JOINT SHALL BE PROVIDED AS CLOSE AS IS FEASIBLE TO OUTSIDE FACE OF ANY STRUCTURE INTO WHICH A PIPE IS BUILT. COMPATIBLE WITH THE SATISFACTORY COMPLETION AND SUBSEQUENT MOVEMENT OF THE JOINT. THE LENGTH OF THE NEXT PIPE (ROCKER PIPE) AWAY FROM THE STRUCTURE SHALL BE AS SHOWN IN THE TABLE BELOW.

NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (m)
150-600	0.6
675-750	1.0
825 AND OVER	1.25

- ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.
- ALL FOUL DRAINS ARE 100mm DIA UNLESS NOTED OTHERWISE
- ALL STORM ARE 100mm DIA UNLESS NOTED OTHERWISE

Rev	Description	Chk'd/App'd	Date
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Issue	PRELIMINARY
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Client/Architect	BROAD OAK PROPERTIES LTD
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Contract	TRAVELLERS REST LEEK BROOK
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Title	PROPOSED DRAINAGE PLAN
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Date	JAN 2021	Scale	1/200
Original size	A1		
Drawn	GB		
Checked	Approved		

Drawing No.	Revision.
K873-109	