



RIVER DEE

Drain

RENO MATTRESS FILLING SPECIFICATION
STONE FILLING FOR GABIONS AND MATTRESSES SHALL BE HARD, DURABLE QUARRIED OR ROUNDED MATERIAL SUCH AS GRANITE, BASALT, DOLOMITIC LIMESTONE, FLINT REJECTS, COBBLES ETC. CLEAN AND FREE FROM CONTAMINATION. SOFT FRIABLE MATERIAL, SOFT BRICKS AND CONCRETE SHALL NOT BE USED. THE MATERIAL SHALL BE WELL GRADED, THE MAXIMUM SIZE SHALL NOT EXCEED TWO THIRDS OF THE MINIMUM DIMENSION OF THE GABION / MATTRESS COMPARTMENT OR 200mm WHICHEVER IS THE SMALLER AND THE MINIMUM SIZE OF THE FILL SHALL NOT BE LESS THAN THE SIZE OF THE MESH OPENING. SAMPLES OF THE STONE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND ALL STONE SUPPLIED SHALL MATCH THE APPROVED SAMPLE

DESIGN OUTSIDE THE EXTENTS OF THE TOPOGRAPHICAL SURVEY AND THE LEVELS AS DEPICTED ARE THEREFORE INDICATIVE ONLY AND SUBJECT TO SURVEY / REVIEW

CMH 1.3
CL 19.900
IL 18.700

MATCH LINE

1500
@ 1:100

CMH 1.2
CL 20.200
IL 18.390

STUB CONNECTION PROVIDED FOR FUTURE STABLE DEVELOPMENT

CMH 1.1
CL 19.500
IL 18.195

CMH 1.0
CL 17.000
IL 15.800

1500
@ 1:113

NEW TIMBER RAIL FENCE

ALTHON ONE PIECE GLASS REINFORCED CEMENT HEADWALL REF H3C TO SUIT 1500 PIPE. TO BE INSTALLED TO MANUFACTURES RECOMMENDATIONS
CL 16.500
IL 15.400

DITCH INVERT LEVEL ASSUMED TO BE CIRCA 14.500

180mm THICK RENO MATTRESS

NOTES

1. THE WORKS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, NATIONAL BUILDING SPECIFICATION (NBS) AND SEWERS FOR ADOPTION, 7TH EDITION.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS, ARCHITECTS DRAWINGS, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
3. THE LOCATION, LINE & LEVEL OF ALL KNOWN EXISTING BURIED SERVICE MAINS AND DRAINAGE PIPEWORK INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GUIDANCE PURPOSES ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXACT LINE & LEVEL BY WAY OF HAND EXCAVATED TRIAL PITS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE MAINS / DRAINAGE INSTALLATIONS.
4. THE CONTRACTOR MUST COMPLY WITH ALL CURRENT LEGISLATION RELATING TO HEALTH & SAFETY.
5. THE MAIN CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL TEMPORARY WORKS, AND IS ALSO RESPONSIBLE FOR THE SAFE MAINTENANCE AND STABILITY OF EXISTING BUILDINGS AT ALL TIMES.
6. THE MAIN CONTRACTOR IS RESPONSIBLE FOR THE MITIGATION OF ALL OCCURRENCES OF GROUND WATER DURING THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR RAISING / LOWERING ALL EXISTING ACCESS COVERS & FRAMES TO SUIT NEW FINISHED LEVELS.
8. PIPES REQUIRE A TYPE 2 CONCRETE BED & SURROUND WHEN THEY HAVE SHALLOW COVER (LESS THAN 900mm IN TRAFFICKED AREAS OR 500mm IN NON-TRAFFICKED AREAS)
9. ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED UPON COMPLETION OF THE WORKS. ALL SURFACE MARKINGS DAMAGED BY THE WORKS SHALL BE FULLY REINSTATED.
10. ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE.

KEY

- PROPOSED FOUL SEWER
- PROPOSED SW SEWER
- PROPOSED TREATED EFFLUENT
- PROPOSED FILTER DRAIN
- PROPOSED PUMPING MAIN
- PROPOSED ATTENUATION CRATES
- PERMEABLE PAVING
- PROPOSED FOUL OUTLET
- PROPOSED RAIN WATER DOWN PIPE

P03	DESIGN DETAILED OUT	RH	MM	JP	24.04.2026
P02	UPDATED AS DISCUSSED ON SITE	RH	MM	JP	21.04.2026
REV	DESCRIPTION	BY	CHK	APR	DATE



CIVIL +
STRUCTURAL
ENGINEERS

+44 (0)1244 956000 | www.jpstructural.co.uk | info@jpstructural.co.uk

PURPOSE OF ISSUE	PRELIMINARY			STATUS	P
PROJECT	PROPOSED RESIDENTIAL DEVELOPMENT AT BANGOR ON DEE				
TITLE	DRAINAGE SCHEME PROPOSED OUTFALL				
CLIENT	MR RETIEF JORDAAN				
DRAWN BY	SB	CHECKED BY	RH	APPROVED BY	JP
DATE	27.03.2026	SCALE (@ A1)	1:250	PROJECT NUMBER	95033
DRAWING NUMBER	0601				REV P03