

REV.	DATE	BY	DESCRIPTION	APP.
A	28/11/23	ST	SITE LAYOUT UPDATED, DRAINAGE LAYOUT AMENDED TO SUIT.	NS



STORM DRAINAGE				
REFERENCE	TYPE	CL	IL	DP
S1	RODDING POINT	100.00	99.55	0.45
S2	RODDING POINT	100.00	99.42	0.58
S3	RODDING POINT	100.00	99.19	0.81
S4	SILT TRAP	100.00	99.00	1.00
S5	RODDING POINT	100.00	98.89	1.11
S6	RODDING POINT	100.00	99.55	0.45
S7	RODDING POINT	100.00	99.39	0.61
S8	SILT TRAP	100.00	98.98	1.02
S9	RODDING POINT	100.00	98.89	1.11
S10	ORFICE CONTROL	100.00	98.46	1.54
S11	RODDING POINT	100.00	98.08	1.92

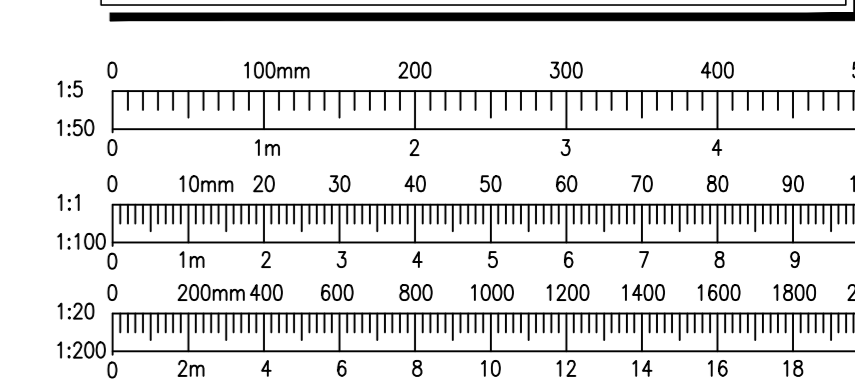
FOUL DRAINAGE				
REFERENCE	TYPE	CL	IL	DP
F1	RODDING POINT	100.00	99.55	0.45
F2	RODDING POINT	100.00	99.16	0.84
F3	RODDING POINT	100.00	98.70	1.30
F4	RODDING POINT	100.00	98.65	1.35
F5	RODDING POINT	100.00	98.57	1.43
F6	RODDING POINT	100.00	98.52	1.48
F7	RODDING POINT	100.00	98.20	1.80
F8	RODDING POINT	100.00	98.08	1.92
F9	RODDING POINT	100.00	96.17	3.83

DRAINAGE NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS PRODUCED BY BOTH THE ARCHITECT AND ENGINEER. ANY DISCREPANCY OR CONFLICT BETWEEN THE DRAWINGS SHOULD BE REFERRED TO EITHER PARTY BEFORE PROCEEDING.
- DO NOT SCALE FROM THESE DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORK ON SITE OR ANY FABRICATION OR MATERIALS ORDERING.
- THE CONTRACTOR'S ATTENTION IS DRAWN TO THEIR RESPONSIBILITY TO ENSURE THE SAFETY AND WELL-BEING OF BOTH SITE OPERATES AND THE PUBLIC DURING THE COURSE OF THE WORKS.
- SUBCONTRACTOR TO CHECK THE LINE/LEVEL AND DIAMETER OF THE EXISTING SERVICES AT LEAST 7 DAYS PRIOR TO COMMENCING ANY SERVICE WORKS. THE ENGINEER IS TO BE ADVISED IN WRITING OF ANY DISCREPANCY AS A MATTER OF URGENCY.
- SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR SCOTLAND, FOURTH EDITION 2018, PUBLISHED BY W.A.C. EXCEPT WHERE AMENDED BY SCOTTISH WATERS' SPECIFICATION AND DRAWINGS.
- ALL PIPES UP TO 450mm TO BE TWIN WALLETS PVC-U (NARLEY QUANTUM SEWER OR EQUAL APPROVED). ALL PIPES OVER 450mm TO BE CONCRETE. THE CONTRACTOR MUST OBTAIN APPROVAL FOR THE ACTUAL PIPE MANUFACTURE/SPECIFICATION CHOSEN BY SCOTTISH WATERS' CLIENT OF WORKS PRIOR TO COMMENCING LAYING.
- CONCRETE PROTECTION SHALL BE PROVIDED TO ALL PIPES WHERE COVER IS LESS THAN 1000mm UNDER ROADS AND TRODS AND 900mm UNDER FOOTPATHS AND SOFT LANDSCAPING.
- DISCONNECTING MANHOLES TO BE IN ACCORDANCE WITH BS8301 AND SHOULD BE 1.2m FOR FOUL & 1.5m DEEP FOR SURFACE WATER UNLESS OTHERWISE NOTED OR INSTRUCTED. ALL DISCONNECTORS TO BE POLYPROPYLENE UP TO DEPTHS OF 1.2m & HIGH-MAN ENTRY INSPECTOR CHAMBERS UP TO DEPTHS OF 3m OR PRE-CAST CONCRETE RINGS FOR GREATER DEPTHS.
- THE LETTER 'Y' TO BE PAINTED ON THE INTERNAL FACE OF ALL FOUL DISCONNECTING MANHOLES.
- ALL GULLEY TAILS AND TAILS FROM DISCONNECTING MANHOLES TO MAIN SEWERS TO BE 150mm PVC-U PIPES.
- ROCKER PIPES SHALL BE USED FOR PIPES LESS THAN 750 NOMINAL DIA. ENTERING AND LEAVING MANHOLES. MAXIMUM LENGTH NOT TO EXCEED 600mm.
- ALL PRECAST CONCRETE UNITS TO BE REINFORCED TO BS5911, WITH ALL JOINTS BETWEEN PRECAST CONCRETE UNITS TO BE MADE WATER-TIGHT BY THE APPLICATION OF CEMENT MORTAR, TOKSTRIP OR OTHER SIMILAR APPROVED EQUAL.
- THE LOWEST CHAMBER RING BEARING ON THE FOUNDATION, AND THE HIGHEST CHAMBER RING RECEIVING THE COVER SLAB, SHALL HAVE FLAN ENDS AND BE BEDDED IN CEMENT MORTAR.
- MANHOLE ACCESS HOLE AND STEP RING POSITIONS TO BE LOCATED TO GIVE THE GREATEST FREE AREA OF BENCHING IMMEDIATELY BELOW. STEP RINGS NOT TO PENETRATE INTO THE 675mm SQUARE ACCESS OPENING IN SHAFT COVER SLAB.
- THE TOP FIRST DOUBLE ENCAPSULATED STEP RING TO BE LOCATED NOT LESS THAN 500mm AND NOT GREATER THAN 700mm FROM THE FINISHED MANHOLE COVER LEVEL.
- MANHOLE COVERS TO BE GRADE 4400 BS EN124 DOUBLE TRIANGULAR COVER AND FRAME 150mm DEEP, WITH 675mm SQUARE OPENING, IN DOUBLE RING COVERS TO BEAR THE REGISTERED COORDINATION MARK OF THE BS.
- ALL PRECAST CONCRETE COVER SLABS TO BE HEAVY DUTY.
- CONCRETE FOUNDATION TO BE SCABBLED BEFORE PLACING THE GRANULITE FINISH. IF PURPOSE BUILT CHANNELS ARE NOT USED, THE GRANULITE MUST BE EXPOSED TO FORM THE CHANNEL.
- HEIGHT ADJUSTMENT TO MANHOLE COVER AND FRAME TO BE A MINIMUM OF 1 COURSE AND A MAXIMUM 3 COURSES OF CLASS B ENGINEERING BRICK.
- ALL METALWORK TO BE HOT-DIP GALVANIZED TO BS EN 1501461.
- WHERE APPLICABLE, 300mm MINIMUM IS REQUIRED BETWEEN THE OUTSIDE OF FOUNDATION TO THE OUTSIDE OF ADJACENT SEWER PIPE. FOUNDATION LEVEL TO BE TAKEN DOWN TO PROVIDE 45 DEGREE CLEARANCE TO SAME SEWER.
- WHERE EXISTING SERVICES MAY BE AFFECTED BY ANY CONSTRUCTION WORKS, THE SUBCONTRACTOR IS TO UNDERTAKE A SERIES OF HAND DUG TRIAL PITS TO VERIFY THAT THE EXISTING PUBLIC UTILITY PLANT WILL NOT BE AFFECTED, 7 DAYS BEFORE COMMENCING SAID WORKS.
- MAIN CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF ALL FEES IN CONNECTION WITH PERMIT TO CONNECT/INFRASTRUCTURE CHARGES SCOTTISH WATERS.
- CONTRACTOR IS RESPONSIBLE FOR ALL LIAISON WITH SCOTTISH WATERS RESPECTOR TO ENSURE COMPLETION CERTIFICATE IS OBTAINED AT END OF FRESH. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COMPLETION CERTIFICATE AND ISSUING TO CLIENT/ENGINEER.

HEALTH AND SAFETY

THE DESIGN HAS HIGHLIGHTED ONLY COMMON HAZARDS, WHICH HAZARDS ARE CONSIDERED TO BE WITHIN THE NORMAL EXPERIENCE OF A COMPETENT CONTRACTOR.



DRAWING STATUS: APPROVAL

MCGREGOR & MCMAHON
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01383 734905 + mcgregor-mcmahon.com + admin@mcmahon.com

PROJECT: NEW DWELLING DEVONSIDE FARM SALINE

TITLE: PROPOSED DRAINAGE LAYOUT

SCALE: 1:100 DATE: 08/11/23 DRAWN: ST APPROVED: NS A0

DRAWING No. 23805-200

PROPOSED SITE DRAINAGE PLAN
1:100

EXISTING DRAINAGE DITCH TO WATERCOURSE
1:100