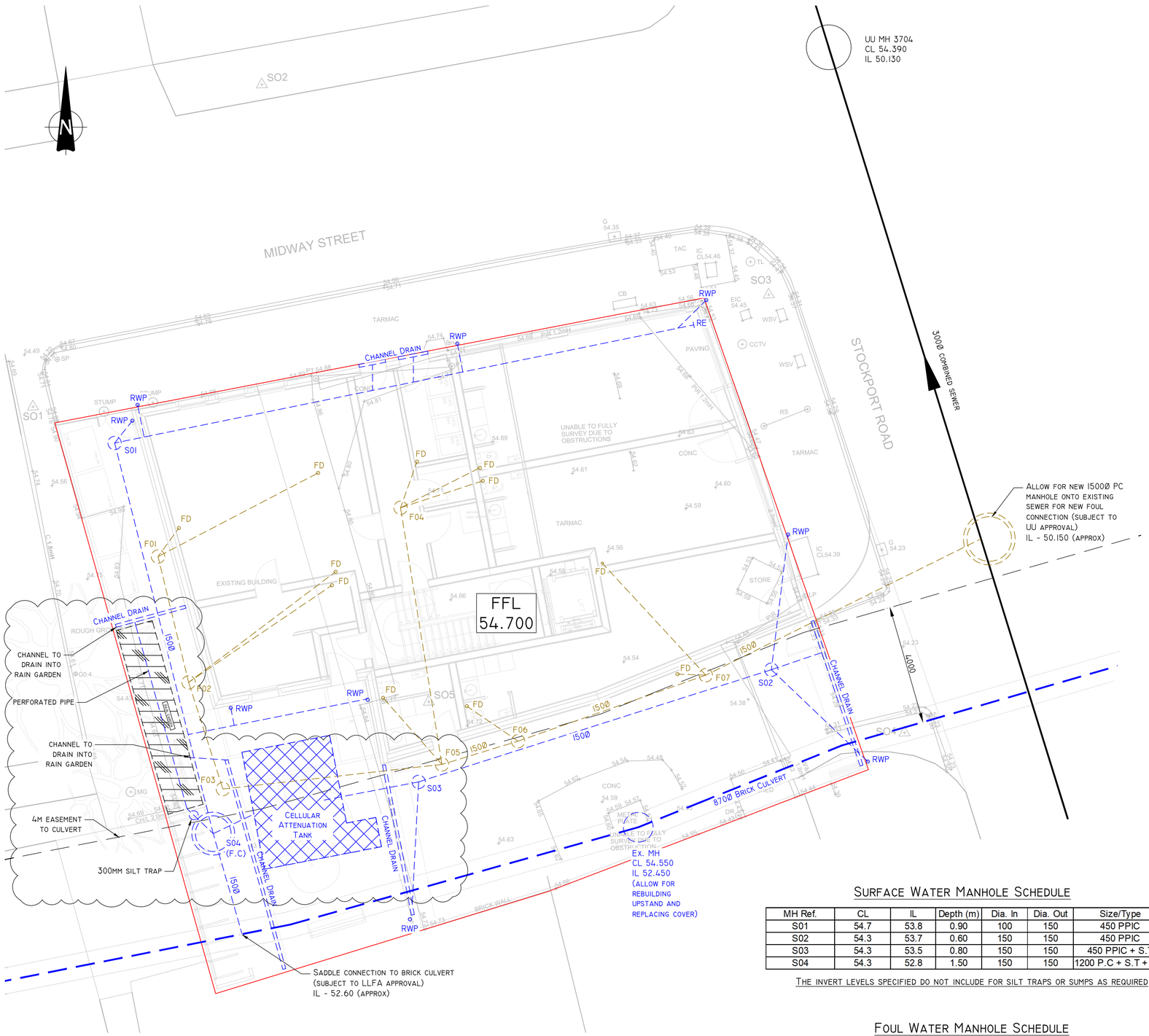

SITE PLAN SHOWING PROPOSED DRAINAGE LAYOUT
1:75 @ A1
1:150 @ A3

SURFACE WATER MANHOLE SCHEDULE

MH Ref.	CL	IL	Depth (m)	Dia. In	Dia. Out	Size/Type
S01	54.7	53.8	0.90	100	150	450 PPIC
S02	54.3	53.7	0.60	150	150	450 PPIC
S03	54.3	53.5	0.80	150	150	450 PPIC + S.T
S04	54.3	52.8	1.50	150	150	1200 P.C + S.T + F.C

THE INVERT LEVELS SPECIFIED DO NOT INCLUDE FOR SILT TRAPS OR SUMPS AS REQUIRED

FOUL WATER MANHOLE SCHEDULE

MH Ref.	CL	IL	Depth (m)	Dia. In	Dia. Out	Size/Type
F01	54.60	54.00	0.60	100	100	450 PPIC
F02	54.50	53.94	53.90	100	100	450 PPIC
F03	54.30	53.70	0.60	100	100	450 PPIC
F04	54.70	54.10	0.60	100	100	450 PPIC
F05	54.30	53.60	0.70	100	150	450 PPIC
F06	54.30	53.55	0.75	150	150	450 PPIC
F07	54.30	53.45	0.85	150	150	450 PPIC

F.C	MANHOLE TO CONTAIN FLOW CONTROL DEVICE
S.T	MANHOLE TO CONTAIN SILT TRAP
FD	FOUL DRAIN (REFER TO M&E ENGINEER DETAILS FOR SPEC)
	DENOTES NEW FOUL WATER DRAIN
	DENOTES NEW SURFACE WATER DRAIN
	DENOTES NEW PRECAST CONCRETE MANHOLE WITH 150MM CONCRETE SURROUND
	DENOTES NEW PPIC MANHOLE WITH 150MM CONCRETE SURROUND

FOR DRAINAGE DETAILS, REFER TO BMC DRAWING J8728/DR02

SETTING OUT OF GULLEYS, FLOOR GULLEYS, SVP AND RWP TO BE TO ARCHITECT'S DETAILS

ALL EXISTING & PROPOSED COVER LEVELS & INVERT LEVELS TO BE CONFIRMED PRIOR TO COMMENCING WORKS

ALL POSITIONS OF PROPOSED DRAINAGE & MANHOLES/RODDING EYES TO BE CONFIRMED AS ACCEPTABLE BY LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORKS

TEMPORARY WORKS MAY BE REQUIRED IN ORDER TO INSTALL THE DRAINAGE. ALLOWANCE SHOULD BE MADE FOR DEWATERING OF EXCAVATIONS DURING THE DRAINAGE INSTALLATION. TEMPORARY WORKS DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE AGREED WITH RELEVANT THIRD PARTIES WHERE NECESSARY.

FLOW CONTROL

HYDROBRAKE REF: MD-SHE-0066-2100-1200-2100
DESIGN FLOW = 2.0L/S
HEAD = 1.2M

CELLULAR ATTENUATION TANK

A MINIMUM OF 9.88M³ OF STORAGE IS TO BE PROVIDED BY THE CELLULAR TANK (ASSUMED TO BE 4X4X3X0.8M DEEP L-SHAPED). ALLOWANCE TO BE MADE FOR WAVIN CORE-R UNITS WITH A MINIMUM COVER OF 600MM. CONSTRUCTION SEQUENCE TO ALLOW FOR A MAX. VEHICLE LOAD OF 9 TONNES ASSUMING FULL COVER PROVIDED.

IMPERMEABLE AREA

SOFT LANDSCAPING HAS BEEN INTRODUCED TO REDUCE THE EXISTING IMPERMEABLE AREA.

SITE AREA = 420M²
EXISTING IMPERMEABLE AREA = 420M²
PROPOSED IMPERMEABLE AREA = 385M²

DRAINAGE DESIGN PHILOSOPHY

SCHEME DESIGNED IN ACCORDANCE WITH PLANNING APPROVED DRAINAGE STRATEGY REF. 2987-BCL-00-XX-RP-S-001 BY BRENNAN CONSULT LTD.

SURFACE WATER DISCHARGE IS TO A CULVERTED WATERCOURSE WITH A PROPOSED DISCHARGE RATE OF 2.0L/S.
SURFACE WATER STORAGE IS PROVIDED BY A CELLULAR TANK.

FOUL DRAINAGE DISCHARGE IS TO THE COMBINED SEWER IN STOCKPORT ROAD, AS PER UNITED UTILITIES PRE-DEVELOPMENT ENQUIRY.

SCHEME HAS BEEN DESIGNED FOR THE FOLLOWING CRITERIA:
1:1 YEAR STORM - NO SURCHARGING
1:2 YEAR STORM - NO SURCHARGING
1:30 YEAR STORM - NO FLOODING
1:100 YEAR + 45% ALLOWANCE FOR CLIMATE CHANGE - NO FLOODING

THIS DESIGN IS PRELIMINARY AND IS SUBJECT TO LLFA AND UU APPROVAL PRIOR TO COMMENCEMENT

GENERAL NOTES:

1. THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF BELL MUNRO CONSULTING LTD. THE DRAWING MUST NOT BE REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN AUTHORITY.

2. THIS DRAWING MUST NOT BE SCALED BY EITHER CONTRACTORS OR OTHER CONSULTANTS ANY DIMENSIONAL OR SETTING - OUT DISCREPANCIES ARE TO BE REPORTED TO BELL MUNRO CONSULTING PRIOR TO CONSTRUCTION / FABRICATION COMMENCING.

3. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE RELEVANT BMC SPECIFICATIONS TOGETHER WITH THE APPROPRIATE ARCHITECTS AND SERVICES CONSULTANTS DRAWINGS AND SPECIFICATIONS.

4. ALL DIMENSIONS TO BE CHECKED BY CONTRACTOR PRIOR TO FABRICATION.

5. INSTALLATION OF ALL PROPRIETARY BUILDERS METAL WORK TO BE IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

6. TEMPORARY STABILITY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE MAIN CONTRACTOR AND SHOULD BE ASSESSED ACCORDINGLY.

DRAINAGE NOTES

1. EXACT SVP AND GULLEY LOCATIONS TO BE CONFIRMED FROM SERVICES ENGINEERS'/ARCHITECTS DRAWINGS AND DETAILS.

2. ALL NEW PIPEWORK TO BE WAVIN OSMADRAIN OR WAVIN ULTRARIB UPVC (OR SIMILAR APPROVED) UNLESS NOTED OTHERWISE.

3. PLASTIC PIPES (PVC-U)TO BE FLEXIBLY JOINTED AND COMPLY WITH THE REQUIREMENTS OF BS EN 1401-1 1998.

4. WHERE COVER TO PIPES IS LESS THAN 750 IN ROADS AND HARDSTANDINGS OR 400 MM ELSEWHERE, CONCRETE SURROUND IS TO BE PROVIDED IN ACCORDANCE WITH THE DETAIL (CLASS Z BEDDING).

5. ALL OTHER PIPEWORK TO BE IN CLASS S BEDDING.

6. N.B. UNTIL FINAL SERVICE IS PLACED, HEAVY TRAFFIC IS NOT TO BE ALLOWED OVER PIPE TRENCHES WITHOUT SPECIAL PRECAUTIONS.

7. PIPES AND FITTINGS ARE TO BE LAID IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

8. MANHOLE COVERS IN TRAFFICKED AREAS TO BE LOAD CLASS D400 TO BS EN 124.

9. MANHOLE COVERS IN LANDSCAPED AND PAVED AREAS TO BE LOAD CLASS A14 TO BS EN 124.

10. MANHOLE COVERS IN PAVED AREAS TO BE RECESSED TO ACCEPT PAVING FINISH.

11. ACCESS COVERS FOR GULLIES IN KERBSIDES TO BE LOAD CLASS C250 BS EN 124.

12. ALL INTERNAL POP UPS TO HAVE RODDABLE ACCESS.

13. ANY PPIC MANHOLE DEEPER THAN 1200MM MUST BE FITTED WITH ACCESS RESTRICTOR CAP.

14. ALL EXISTING DRAINAGE/SERVICES TO BE CONFIRMED PRIOR TO CONSTRUCTION COMMENCING.

15. PIPEWORK PASSING THROUGH BUILDING WALLS SHALL BE FITTED WITH ROCKER PIPES AS PER STANDARD DETAIL.

16. ANY UNLABELLED FOUL BRANCH PIPEWORK TO BE 100Ø PIPEWORK AT MINIMUM 1:80 FALL.

17. ANY UNLABELLED STORM WATER BRANCH PIPEWORK TO BE 100Ø AT MINIMUM 1:80 FALL.

18. ALL RWP LOCATIONS AND NUMBERS ARE TO BE CONFIRMED BY ARCHITECT PRIOR TO COMMENCING CONSTRUCTION.

19. ALL INTERNAL MANHOLES TO BE FITTED WITH TRIPLE SEALED COVERS

PLANNING

REV	COMMENTS	DATE	BY
B	RAIN GARDEN INCORPORATED	22/01/26	MB
A	UPDATED DISCHARGE RATE TO SUIT COMMENTS	16/01/26	RC
--	INITIAL ISSUE	24/06/25	RC

BMC

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CLIENT: CAPSTONE CONSTRUCTION (NW) LTD.

PROJECT: 816 STOCKPORT ROAD

TITLE: PROPOSED DRAINAGE LAYOUT

DRAWN BY:	CHECKED BY:	SCALE:	DATE:
R.C	S.J.B	1:75	04/25

DRAWING NUMBER: J8728/D01

REVISION: B