DGA01
DGA02
DGA03
— PODIUM BC TOWERS B&C

DGA04
DGA05
— PODIUM A TOWER A

FOR COORDINATES TO FW & SW POP UPS REFER TO HBA DRAWINGS

PRE-FABRICATED POLYPIPE RIDGISTORM CONTROL CHAMBER (OR SIMILAR APPROVED) WITH INTEGRATED PENSTOCK VALVE. TO BE CLOSED MANUALLY WHEN FLOOD WARNING RECEIVED TO PREVENT ANY FLOOD WATER ENTERING THE BELOW DRAINAGE SYSTEM

NEW CONNECTION INTO EXISTING COMBINED SEWER MANHOLE. INVERT LEVEL IS APPROXIMATE AND TO BE CONFIRMED ON-SITE. ALL SUBJECT TO S106 APPLICATION TO UNITED UTILITIES

MH F2.20 FITTED WITH IN-LINE NON-RETURN VALVE ON OUTLET PIPE

MANHOLE TO BE ADJUSTED TO SUIT NEW COVER LEVEL OF 30.65m (APPROX).

MANHOLE TO BE ADJUSTED TO SUIT NEW COVER LEVEL OF 30.85m (APPROX).

'AS BUILT' ALIGNMENT OF DIVERTED COMBINED SEWER

MH9
CL 29.77
IL 26.39

MH8
CL 31.17
IL 26.66

S1.0
CL 29.95
IL 28.940

S1.0A
CL 29.92
IL 28.870

S1.1
CL 31.23
IL 30.26

S1.2
CL 30.60
IL 29.20

S1.2A
CL 30.75
IL 29.090

S1.3
CL 30.11
IL 28.77

F2.10
CL 29.99
IL 28.40

F2.12
CL 29.99
IL 28.10

F2.13
CL 29.99
IL 27.90

F2.14
CL 29.58
IL 28.55

F2.14A
CL 29.58
IL 28.475

F2.15
CL 29.99
IL 27.960

F2.16
CL 30.83
IL 27.83

F2.16B
CL 30.83
IL 29.33

F2.17
CL 30.83
IL 27.75

F2.17A
CL 30.83
IL 29.33

F2.18
CL 29.89
IL 28.64

F2.18A
CL 29.89
IL 28.59

F2.18B
CL 29.89
IL 28.50

F2.19
CL 29.89
IL 28.45

F2.20
CL 30.25
IL 27.50

F2.20A
CL 30.15
IL 27.65

CWMH3
CL 30.05
IL26.80

CWMH2
CL 30.26
IL 26.83

F1.010 225Ø 1:24
F1.009 225Ø 1:150
F1.009 225Ø 1:150
F1.008 225Ø 1:150
F1.007 225Ø 1:150
F7.000 150Ø 1:80
F7.001 150Ø 1:19
S1.000 300Ø 1:60
S1.001 300Ø 1:172
2.002 150Ø 1:60
S2.001 150Ø 1:61
S2.000 150Ø 1:18
F5.000 150Ø 1:80
1.000 150Ø 1:10
750Ø 1:89
750Ø 1:89
750Ø 1:89
880Ø CWS
880Ø CWS
880Ø CWS
1500Ø CWS
150Ø
150Ø
150Ø
150Ø
150Ø
150Ø
150Ø
150Ø
150Ø 1:80
150Ø 1:80
300Ø 1:76
RWP
RWP
RWP
RWP
RWP
RWP
PRWP
FG
FG
FG
SU
SU
SU
AU
LOADING ONLY
Brick Wall 1.40 High
Metal Fence 1.90 High
Bridge Wall 1:50 High
Tarmac Footpath
Overgrown And Inaccessible At Time Of Survey
Approximate Line Of Bridge
Site Hoarding
Cover CL29.65m
Cover CL29.82m
Cover CL30.09m
Gas
Grass
Tarmac
Building
Line Of Bridge
Soffit 38.95
Stone Parapet
42.82 Stone Parapet
42.50 Top Of Bridge
42.62 Top Of Bridge
42.67 Top Of Bridge
42.51 Top Of Bridge
Railway Bridge
GOLDSTREET

SITE BOUNDARY
EXISTING COMBINED SEWER
SEWER TO BE ABANDONED
DIVERTED COMBINED SEWER
EXTENT OF PODIUM ABOVE
ABOVE GROUND POTABLE WATER STOR TANKS. REFER TO M&E INFORMATION
EXTENT OF TOWER CRANE BASE
RAIN GARDEN
PERMEABLE PAVEMENT
ATTENUATION TANK
SURFACE WATER DRAIN
SURFACE WATER MANHOLE/ INSPECTION CHAMBER
RWP RAINWATER PIPE & 150Ø CONNECTION
RG ROAD GULLY & 150Ø CONNECTION
YG YARD GULLY & 110Ø CONNECTION
SU AU ACO 150D 10.0 BRICKSLOT TWINSLOT W SUMP UNIT (SU) & ACCESS UNIT (AU)
SU ACO HEXDRAIN BRICKSLOT WITH SUMP & CORNER UNIT
100Ø PERFORATED PIPE
PERMAVOID DIFFUSER UNIT & 150Ø CONNECTION
FOUL WATER DRAIN
FOUL WATER MANHOLE/ INSPECTION CHAMBER

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NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
3. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
4. BEFORE STARTING ANY WORKS, CONTRACTOR TO CHECK INVERT LEVELS AND POSITIONS OF EXISTING DRAINS, SEWERS, INSPECTIONS CHAMBERS AND MANHOLES AGAINST INFORMATION SHOWN ON THIS DRAWING.
5. ROCKER PIPES ARE TO BE PROVIDED AT ALL CONCRETE CASED INTERFACES.
6. CLASS 2 CONCRETE SURROUND TO BE PROVIDED FOR PIPES WITH COVER LESS THAN 1.2m ABOVE THE CROWN OF THE PIPE FOR ROADS AND 0.6m FOR SOFT AND PEDESTRIAN AREAS ONLY AND UNDER ALL FOUNDATIONS AND WHERE PIPES LAID WITHIN 1m OF FOUNDATIONS.
7. CONNECTIONS TO EXISTING PUBLIC SEWERS IN ACCORDANCE WITH UNITED UTILITIES REQUIREMENTS, TO BE APPROVED / AGREED WITH THE WATER AUTHORITY.
8. PROPOSED COVER LEVELS ARE APPROXIMATE AND SHALL BE CHECKED BY THE CONTRACTOR ON SITE TO SUIT THE EXACT FINISHED LEVEL AND GRADIENT.
9. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY AND IN CONJUNCTION WITH ALL RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND 'SEWERS FOR ADOPTION' 7th EDITION.
10. ACCESS COVERS AND FRAMES SHALL COMPLY WITH THE LOADINGS SPECIFIED AND TO BS EN 124 AND KITEMARKED OR IF RECESSED COVERS ARE SPECIFIED THEN IN ACCORDANCE WITH FACTA ASSOCIATION EQUIVALENT. ALLOW FOR RECESS MANHOLE COVERS TO ACCEPT LANDSCAPE ARCHITECT FINISHES TO ALL NON-ASPHALT EXTERNAL AREAS.
11. THE PROPOSED BUILDING LAYOUTS SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. REFER TO ARCHITECTS PLANS FOR PRECISE LOCATION SETTING OUT INFORMATION AND DETAILS
12. FOR SETTING OUT DIMENSIONS OF SS'S, SVP'S, RWP'S, FLOOR GULLY'S & OTHER DRAINAGE 'POP UP' LOCATIONS, REFER TO ARCHITECTS OR MECHANICAL & ELECTRICAL ENGINEERS DRAWINGS.
13. ALL DRAINAGE PIPEWORK SHOWN SHALL BE 100mm DIAMETER FOR FOUL AND 150mm FOR SURFACE WATER UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPEWORK SHALL BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED.
14. ALL UNDERSLAB DRAINAGE SHALL BE LAID AT GRADIENTS OF 1:80 MIN. FOR FOUL PIPEWORK AND 1:100 MIN. FOR SURFACE WATER UNLESS NOTED OTHERWISE. ALL UNDERSLAB DRAINAGE SHALL BE CLEAR OF FOUNDATIONS UNLESS SHOWN OTHERWISE. USE OF SHORT/ LONG RADIUS BENDS IS ACCEPTABLE PROVIDED THEY ARE KEPT TO A MINIMUM AND USED WHERE UNAVOIDABLE.
15. AT LEAST ONE SOIL PIPE AT THE HEAD OF EACH FOUL RUN SHALL BE VENTED TO THE ATMOSPHERE. ALL RAINWATER PIPES SHALL HAVE ABOVE GROUND RODDING ACCESS.
16. ALL PRIVATE DRAINAGE PIPEWORK FOR FOUL AND SURFACE WATER SYSTEMS HAVE BEEN DESIGNED ON THE BASIS OF UPVC TO BS EN 1401-1, UNLESS NOTED OTHERWISE.
17. CONCRETE ENCASEMENT OF THE PIPEWORK SHALL BE REQUIRED WHERE THE VERTICAL CLEARANCE BETWEEN TWO PIPES CROSSING IS LESS THAN 300MM.
18. WHERE NEW DRAINAGE IS SITUATED WITHIN 5 METRES OF NEW OR EXISTING TREES THE PIPEWORK SHALL BE ENCASED IN CONCRETE TO REDUCE THE RISK OF ROOT INGRESS.
19. ALL NEW DRAINAGE INSTALLATIONS TOGETHER WITH ANY EXISTING DRAINAGE RETAINED SHALL BE JETTED AND CCTV SURVEYED UPON COMPLETION. CONTRACTOR TO ENSURE THAT THE DRAINAGE SYSTEM IS FULLY OPERATIONAL, FREE OF EXCESS DEBRIS/SILT AND ALL IDENTIFIED FAULTS RECTIFIED.
20. SURFACE WATER DRAINAGE DESIGN HAS BEEN DEVELOPED ON THE BASIS OF THE PREVIOUSLY AGREED DISCHARGE RATES AND POINTS OF CONNECTION BETWEEN CIVIC ENGINEERS AND MCC LLFA.
21. ATTENUATION STORAGE CALCULATIONS INCLUDE CLIMATE CHANGE ALLOWANCE OF 40% IN ACCORDANCE WITH CURRENT ENVIRONMENT AGENCY GUIDELINES.

REV.	DATE	DETAILS	DRN.	CHK.
C5	08.11.24	UPDATED TO SUIT AS BUILT RECORDS	ARJ	PAW
C4	12.09.24	CHANGES AS CLOUDED	ARJ	PAW
C3	22.09.23	LEGEND & SW DRAINAGE (CLOUDED) UPDATED	PAW	ARJ
C2	19.04.22	UPDATED TO SUIT HBA AND BFL LAYOUTS FOR PODIUM A & MIDRISE A	PAW	ARJ
C1	08.04.22	ISSUED FOR CONSTRUCTION	PAW	JAS

DRAWING STATUS
CONSTRUCTION

RIBA STAGE
STAGE 5

RoC CONSULTING
Commercial Wharf
6 Commercial Street
Manchester M15 4PZ
T 0161 214 5390
W rocconsulting.com

DRAWN PAW	DATE APR 22	SCALES 1:100
CHECKED ARJ	DATE APR 22	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE --DO NOT SCALE--
APPRVD. JAS	DATE APR 22	EMAIL FOR DRAWINGS info@rocconsulting.com

CLIENT
CRUK

PROJECT TITLE
VICTORIA RIVERSIDE

DRAWING TITLE
BELOW GROUND DRAINAGE GENERAL ARRANGEMENT SHEET 5 of 5

DRAWING No. VRS-ROC-ZZ-XX-DR-C-DGA05
REV. C5

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