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

GULLY & SLOT DRAIN TO CONNECT TO PERFORATED PIPE WITHIN OPEN GRADED SUB-BASE LAYER (350mm) BENEATH PLANTER

ACCESS RAMP TO DRAIN TO DRAINAGE CHANNEL

MH F1.22 FITTED WITH IN-LINE NON-RETURN VALVE ON OUTLET PIPE

CONTRACTOR PROPOSAL: POLYSTORM GEOCELLULAR ATTENUATION TANK. PLAN AREA 92m2, VOL$_{MAX}$: 110.4m3, STORAGE 104.88m3 IL: 28.00m, 1.2m DP, 1.5 LAYERS, WELDED GEOMEMBRANE. TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS INCLUDING VENT PIPE AND TOP OF VENT PIPE TO PROJECT ABOVE FLOOD LEVELS (APPROX 700mm ABOVE CAR PARK SLAB LEVEL.

DASHED L… ABOVE. A… PERMEAB…

- SITE BOUNDARY
- EXISTING COMBINED SEWER
- SEWER TO BE ABANDONED
- DIVERTED COMBINED SEWER
- EXTENT OF PODIUM ABOVE
- ABOVE GROUND POTABLE WATER STORAGE 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 WITH SUMP UNIT (SU) & ACCESS UNIT (AU)
- SU — ACO HEXDRAIN BRICKSLOT WITH SUMP UNIT & CORNER UNIT
- 100Ø PERFORATED PIPE
- PERMAVOID DIFFUSER UNIT & 150Ø CONNECTION
- FOUL WATER DRAIN
- FOUL WATER MANHOLE/ INSPECTION CHAMBER
- FOUL WATER CONNECTION 150Ø
- FG — FLOOR GULLEY
- * DENOTES CHAMBER TO BE FITTED WITH EJCO (PETER SAVAGE) PRESSURE RATED PS754 COVER & FRAME CAST INTO SLAB. REFER TO TYPICAL DETAIL

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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 Z 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.
C10	08.11.24	UPDATED TO SUIT AS BUILT RECORDS	ARJ	PAW
C9	12.09.24	CHANGES AS CLOUDED	ARJ	PAW
C8	22.09.23	LEGEND UPDATED	PAW	ARJ
C7	19.04.22	TOWER C POP UPS ADJUSTED TO SUIT AOD	PAW	ARJ
C6	21.03.22	TOWER B LVL01 DRAINAGE ADDED/UPDATED. LVL00 CL's REFINED TO SUIT SSL.	PAW	ARJ
C5	09.03.22	POP UP POSITIONS AND BGD UPDATED	PAW	ARJ
C4	11.02.22	SUB-STRUCTURE PENETRATION LEVELS ADDED	ARJ	JAS
C3	08.02.22	UPDATED TO SUIT COORDINATED DRAWINGS FROM HAWKINS BROWN DATED 31.01.2022	WDC	PAW
C2	09.12.21	UPDATED TO SUIT TOWER CRANE BASES, FLOOD COMPENSATION LEVELS AND PLANT LEVELS. SLOT DRAINS ADDED AT DOOR THRESHOLDS ALONG BROMLEY ST	ARJ	JAS
C1	02.11.21	ISSUED FOR CONSTRUCTION	ARJ	JAS

DRAWING STATUS
CONSTRUCTION

RIBA STAGE
STAGE 5

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DRAWN	DATE	SCALES
ARJ	SEP 21	1:100
CHECKED	DATE	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE --DO NOT SCALE--
PAW	SEP 21	
APPRVD.	DATE	EMAIL FOR DRAWINGS
JAS	SEP 21	info@rocconsulting.com

CLIENT
CRUK

PROJECT TITLE
VICTORIA RIVERSIDE

DRAWING TITLE
BELOW GROUND DRAINAGE GENERAL ARRANGEMENT SHEET 1 of 5

DRAWING No.	REV.
VRS-ROC-ZZ-XX-DR-C-DGA01	C10

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