NOTE:
REFER TO ROC S104 DRAWINGS FOR DETAILS OF OFF-SITE DRAINAGE

INDICATIVE FUTURE CONNECTION FOR PLOTS RB16 AND RB17

FLOW CONTROL CHAMBER (S2.18) WITH INTEGRAL HYDROBRAKE OPTIMUM OR EQUIVALENT APPROVED.
REF: MD-SHE-0193-2310-2300-2310
QMAX: 23.1 l/s, HEAD: 2.3m, CL: 31.47m IL: 28.34m
(22 l/s/ha) (1.05ha) (NT02 & NT03)

PROPOSED FPMCANN STORMCLEANSER HYDRODYNAMIC SEPARATOR. REF: PRE-SC1200. MAX FLOW RATE 43.0l/s

PROPOSED ACO STORMBRIXX HD GEOCELLULAR ATTENUATION TANK OR EQUIVALENT APPROVED. VOL MAX: 160m³, 16.87m x 5.42m 1.84m DEEP. IL 28.80m. POSITION OF TANK TBC PENDING FURTHER COORDINATION WITH LANDSCAPE/ SITE WIDE SERVICES

NEW MANHOLE ON EXISTING PUBLIC COMBINED SEWER. UPSTREAM LENGTH TO BE ABANDONED AND REMOVED. SUBJECT TO S116/ S106 APPLICATION TO UNITED UTILITIES

PROPOSED MANHOLE FOR FUTURE CONNECTION FROM NT03 DEVELOPMENT

DANTZIC STREET

DULWICH STREET

NT02 Amenity Club House

NT03 Tower 2

NT03 Midrise 3

BELOW GROUND

Pedestrian Zone

Cor Park

S5.06 CL 30.35 IL 27.50

S1.009 300Ø 1:250

1550Ø BR CWS

S1.008 300Ø 1:250

5401 CL 30.55 IL 24.70

1530Ø BR CWS

S5.05 CL 31.25 IL 27.68

S1.005 225Ø 1:9

300Ø VC CWS

375x475 CWS

S2.19 CL 31.45 IL 28.17

S2.18 CL 31.47 IL 28.34

S2.14 CL 31.63 IL 28.39

S2.13 CL 30.82 IL 28.82

3.005 450Ø 1:60

450Ø 1:150

225Ø 1:28

225Ø 1:100

225Ø 1:120

F2.13 CL 32.00 IL 29.74

F2.14 CL 31.95 IL 29.62

F2.15 CL 31.80 IL 29.53

F2.16 CL 31.80 IL 26.53

bd 29.43m

S2.05 CL 31.63 IL 28.55

F2.12 CL 31.74 IL 29.90

bd 30.43m

1.003 150Ø 1:21

1.006 225Ø 1:80

Ø225Ø

3.004 225Ø 1:24

S2.04 CL 32.68 IL 31.50

S2.03 CL 33.18 IL 32.18

S2.17 CL 32.70 IL 31.57

S2.12 CL 32.16 IL 30.90

S2.10 CL 32.19 IL 31.00

F2.11 CL 32.70 IL 30.18

S2.11 CL 32.19 IL 30.96

3.003 225Ø 1:11

F2.09 CL 32.19 IL 30.52

F2.08 CL 32.19 IL 30.65

150Ø 1:80

F2.10 CL 32.92 IL 30.26

1.002 150Ø 1:80

BD 31.19m

DULWICH STREET 225Ø

S2.09 CL 33.75 IL 31.95

F2.04 CL 33.52 IL 32.13

S2.08 CL 34.15 IL 32.23

3.002 150Ø 1:40

F2.07 CL 32.99 IL 31.47

S2.02 CL 33.76 IL 32.00

S2.07 CL 34.11 IL 32.80

3.001 150Ø 1:11

F2.06 CL 32.99 IL 31.56

F2.03 CL 34.00 IL 32.35

S2.16 CL 34.00 IL 32.87

F2.05 CL 32.99 IL 31.80

F2.02 CL 34.15 IL 32.62

3.000 150Ø 1:40

F2.01 CL 34.15 IL 32.91

S2.01 CL 34.17 IL 32.17

S2.15 CL 34.55 IL 33.42

S2.06 CL 34.13 IL 33.13

F2.00 CL 34.15 IL 33.00

S2.00 CL 34.15 IL 32.30

1.000 150Ø 1:80

225Ø

PERMEABLE PAVING TO DISCHARGE VIA PERMAVOID DIFFUSER UNITS LOCATED WITHIN OPEN GRADED SUB-BASE. DETAILS TBC PENDING FURTHER CO-ORDINATION

CENTRAL 225Ø PERFORATED RIDGITREAT PIPE BY POLYPIPE LAID IN NARROW TRENCH FOR DISPERSAL/ CONVEYANCE/ TREATMENT OF SURFACE WATER RUN-OFF FROM PERMEABLE PAVEMENT ABOVE.

## WORK IN PROGRESS

ALL INFORMATION ON THIS DRAWING IS SUBJECT TO CHANGE AS THE SCHEME IS DEVELOPED AS THE FOLLOWING INFORMATION IS EITHER YET TO BE FINALISED.

- SW DISCHARGE CONSENT APPLICATION
- SW S104 AGREEMENT & TECHNICAL APPROVAL
- FW S106 AGREEMENT & TECHNICAL APPROVAL
- LANDSCAPE/ EXTERNAL WORKS LEVELS
- LANDSCAPE/ EXTERNAL WORKS FINISHES

- PLANNING BOUNDARY
- NT02 BOUNDARY
- EXISTING COMBINED SEWER
- SEWER TO BE ABANDONED
- DIVERTED COMBINED SEWER
- PERMEABLE PAVEMENT WITH HARDSCAPE DRAINJOINT
- ATTENUATION TANK
- SURFACE WATER DRAIN
- SW MANHOLE/ INSPECTION CHAMBER/ CATCHPIT
- RAINWATER PIPE & 150Ø CONNECTION
- DRAINAGE CHANNEL
- ACO SLOT DRAIN & SUMP UNIT
- FILTER DRAIN WITH CATCHPIT & PERFORATED PIPE
- YARD GULLY & 110Ø CONNECTION
- FOUL WATER DRAIN
- FW MANHOLE/ INSPECTION CHAMBER
- FOUL WATER POP-UP & 110Ø UNO
- S104 SW SEWER & MANHOLE
- S104 FW SEWER & MANHOLE

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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 SSS, SVPS, RWPS, 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. ATTENUATION STORAGE CALCULATIONS INCLUDE CLIMATE CHANGE ALLOWANCE OF 40% IN ACCORDANCE WITH CURRENT ENVIRONMENT AGENCY GUIDELINES.

| REV. | DATE | DETAILS | DRN. | CHK |
|---|---|---|---|---|
| P03 | 17/12/2024 | COORDINATION | ARJ | JAS |
| P02 | 22/11/2024 | COORDINATION | ARJ | JAS |
| P01 | 15/11/2024 | FIRST ISSUE | ARJ | JAS |

DRAWING STATUS
PRELIMINARY

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STAGE 4

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W rocconsulting.com

| | | |
|---|---|---|
| DRAWN ARJ | DATE OCT 24 | SCALES 1:200 |
| CHECKED PAW | DATE OCT 24 | THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE –DO NOT SCALE– |
| APPRVD. JAS | DATE OCT 24 | EMAIL FOR DRAWINGS info@rocconsulting.com |

CLIENT
FAR EAST CONSORTIUM INTERNATIONAL LTD

PROJECT TITLE
REDBANK DEVELOPMENT

DRAWING TITLE
FW & SW DRAINAGE GENERAL ARRANGEMENT BLOCK 2B

| DRAWING No. | REV. |
|---|---|
| RDB/ROC/2B/XX/DR/C/83/0500 | P03 |

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