SW111
Ø450 PPIC
CL 40.300
IL 38.459

SW109
Ø450 PPIC
CL 40.290
IL 38.898

FW110
Ø450 PPIC
CL 40.030
IL 37.129

RE002
IL 39.585

RE001
IL 39.300

EXISTING CESSPIT TO BE ABANDONED

EXISTING FOUL DRAINAGE RECORDED ON RANDALL SURVEYS BELOW GROUND SERVICES SURVEY. ASSUMED TO SERVE EXISTING BUILDING TO BE DEMOLISHED. TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCEMENT.

SW108
Ø450 PPIC
CL 40.550
IL 39.200

FW109
Ø450 PPIC
CL40.475
IL 38.500

SW110
Ø1200 PCC
CL 40.100
IL 38.596

FILTER DRAIN INSTALLED TO FRONT OF BUILDING

FFL - 40.560

FFL - 40.560

FW108
Ø450 PPIC
CL 40.450
IL 37.304

SW101
Ø450 PPIC
CL 40.450
IL 39.000

SW102
Ø450 PPIC
CL 40.500
IL 38.848

FW105
Ø450 PPIC
CL 40.470
IL 38.931

SW106
Ø1200 PCC
CL 40.500
IL 38.753

FW106
Ø450 PPIC
CL 40.550
IL 38.137

FW107
Ø450 PPIC
CL 40.550
IL 37.872

SW107
Ø1200 PCC
CL 40.590
IL 38.232

EXISTING DRAINAGE CHANNEL TO BE REMOVED AND REPLACED WITH NEW DRAINAGE CHANNEL - ACO MULTRIDRAIN MD M150D 20.0

SW105
Ø450 PPIC
CL 40.530
IL 38.800

EX SW 72
CL 40.700
IL 39.275

SW103
Ø450 PPIC
CL 40.500
IL 39.200

SW104
Ø600 PPIC
CL 40.590
IL 38.880

ATT_01
WAVIN AQUACELL CORE GEOCELLULAR STORAGE
CL 39.986
IL 39.186
13m (L) x 5m (W) x 0.8m (D)

DETAILS OF EXISTING BUILDING DRAINAGE TO BE CONFIRMED

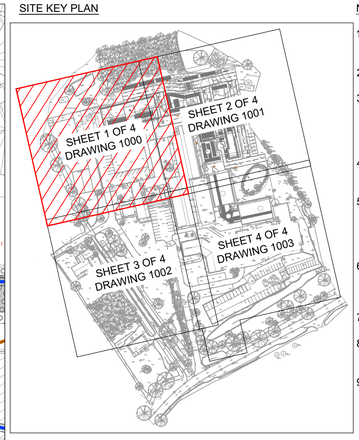
EXISTING CHANNEL DRAIN REMOVED AND FILTER INSTALLED TO FRONT OF BUILDING

DETAILS OF EXISTING CAR PARK DRAINAGE TO BE CONFIRMED BY CCTV SURVEY

EXISTING SURFACE WATER DRAINAGE DISCHARGING TO FOUL DRAINAGE SYSTEM TO BE RE-ROUTED AS SHOWN

150Ø @ 1:100
150Ø @ 1:85
150Ø @ 1:104
150Ø @ 1:16
100Ø @ 1:60
100Ø @ 1:50
150Ø @ 1:100
150Ø @ 1:100
150Ø @ 1:40
150Ø @ 1:40
225Ø @ 1:100
150Ø @ 1:40
225Ø @ 1:100
150Ø @ 1:100
225Ø @ 1:100
225Ø @ 1:14
300Ø @ 1:150
150Ø @ 1:150
400Ø @ 1:8mm

SITE KEY PLAN



LEGEND

- SITE BOUNDARY
- SW SW — EXISTING SURFACE DRAIN
- FW FW — EXISTING FOUL DRAIN
- CW CW — EXISTING COMBINED DRAIN
- EXISTING DRAIN TO BE ABANDONED
- PROPOSED SURFACE WATER DRAIN
- PROPOSED SURFACE WATER PERFORATED UNDER DRAIN
- PROPOSED LINEAR CHANNEL DRAIN
- PROPOSED SURFACE WATER INSPECTION CHAMBER
- PROPOSED SURFACE WATER CATCHPIT CHAMBER
- RWP — PROPOSED RAINWATER DOWNPIPE
- BD — PROPOSED SURFACE WATER BACKDROP
- PROPOSED HEADWALL
- PROPOSED RODDING EYE
- G — PROPOSED GULLY
- P — PROPOSED PERMAVOID DIFFUSER
- PROPOSED GEOCELLULAR STORAGE
- PROPOSED POND
- PROPOSED POROUS BODPAVE SYSTEM
- PROPOSED ROAD WITH ATTENUATION SUB-BASE
- PROPOSED CONTAINER STORAGE AREA WITH ATTENUATION SUB-BASE
- PROPOSED FOUL DRAIN
- PROPOSED FOUL WATER INSPECTION CHAMBER
- SVP — PROPOSED STUB STACK / SOIL VENT PIPE
- BD — PROPOSED FOUL WATER BACKDROP
- G — PROPOSED FLOOR GULLY
- PROPOSED TREATED EFFLUENT DRAIN
- PROPOSED TREATED EFFLUENT CHAMBER
- PROPOSED TREATED EFFLUENT HEADWALL

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS
2. DO NOT SCALE FROM THIS DRAWING IN EITHER PAPER OR DIGITAL FORM. USE WRITTEN DIMENSIONS ONLY.
3. INVERT LEVELS AND POSITIONS OF EXISTING DRAINS / CHAMBERS / SEWERS WHERE NEW CONNECTIONS ARE TO BE MADE MUST BE CHECKED AND CONFIRMED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
4. ALL DRAINAGE SHALL COMPLY WITH THE TYPICAL DETAILS AND THE REQUIREMENTS OF BS EN 752 AND PART H OF THE BUILDING REGULATIONS.
5. ANY PART OF THE EXISTING DRAINAGE SYSTEM TO BE RETAINED AS PART OF THE NEW SCHEME SHALL BE CLEANED AND INSPECTED. ANY STRUCTURAL DEFECTS SHALL BE REPAIRED USING APPROPRIATE AND APPROVED MEANS.
6. FOR SETTING-OUT DIMENSIONS OF SVP'S, RWP'S ETC, REFER TO ARCHITECT'S OR MECHANICAL ENGINEER'S DRAWINGS. POSITIONS SHOWN ARE INDICATIVE AND SUBJECT TO FINAL DESIGN.
7. ALL FOUL AND RWP CONNECTIONS SHALL BE 100mm DIAMETER UNLESS OTHERWISE SPECIFIED.
8. ALL PRECAST CONCRETE UNITS USED IN THE DRAINAGE WORKS SHALL BE MANUFACTURED USING SULPHATE RESISTING CEMENT.
9. MANHOLE COVERS AND FRAMES SHALL BE TO BS EN 124 AND SHALL BE KITEMARKED. COVERS AND FRAMES SHALL BE HEAVY DUTY D400 IN CARRIAGEWAYS AND VEHICULAR AREAS AND MEDIUM DUTY B125 IN FOOTWAYS AND SOFT LANDSCAPING.
10. COVER LEVELS ARE TO BE ADJUSTED LOCALLY TO SUIT FINISHED GROUND LEVELS.
11. AT LEAST ONE SOIL PIPE AT THE HEAD OF EACH FOUL RUN SHALL VENT TO THE ATMOSPHERE.
12. EXISTING DRAINAGE TO BE REMOVED IS TO BE BROKEN OUT TO BED LEVEL AND VOID BACKFILLED WITH GRANULAR MATERIAL, COMPACTED IN LAYERS NOT EXCEEDING 250mm.
13. ALL DRAIN RUNS FROM SVP'S, STUB STACKS OR FW GULLIES TO BE LAID AT 1:40 GRADIENT UNLESS OTHERWISE STATED. ALL RWP'S TO BE LAID 1:80 MIN UNLESS OTHERWISE STATED.
14. ALL PRIVATE DRAINAGE TO BE LAID TO LEVELS SHOWN USING FLEXIBLY JOINTED PIPES, EITHER UPVC TO BS 4660 AND BS 5481 OR VITRIFIED CLAYWARE TO BS EN 295.
15. RODDING EYES, ETC ARE TO BE LAID TO MANUFACTURERS MINIMUM COVER AND DEPTH TO ALLOW ADEQUATE FALL FROM ADJOINING UNIT.
16. ALL PROPOSED TREES TO HAVE APPROPRIATE TREE BARRIER DETAILS LINKING PITS TO ENSURE ROOTS ARE DIRECTED AWAY FROM DRAINAGE.
17. WHERE NEW SEWERS ARE CONSTRUCTED WITHIN 5M OF A NEW OR EXISTING TREE THE SEWER SHALL BE CONCRETE ENCASED AGAINST ROOT INTRUSION. REFER TO DRAINAGE DETAILS.
18. ALL NEW DRAINAGE TO BE JETTED AND CCTV SURVEYED ON COMPLETION. CONTRACTOR TO MAKE SURE THAT THE DRAINAGE IS FULLY OPERATIONAL. REFER TO DRAINAGE MAINTENANCE MANUAL FOR MAINTENANCE DETAILS.

1. DRAWING BASED ON TOPOGRAPHIC SURVEY BY RANDALL SURVEYS, REF. 16213.
2. DETAILS OF EXISTING DRAINAGE BASED ON UTILITY SURVEY BY MURPHY, REF. MGS59776-U.
3. PROPOSED LAYOUT BASED ON ECE ARCHITECTURE PROPOSED SITE PLAN, REF. 7315-ECE-ZZ-ZZ-D-A-0001.
4. RWP / SS / SVP POSITIONS SHOWN ARE INDICATIVE AND SUBJECT TO CONFIRMATION BY ARCHITECT / MEP ENGINEERS.
5. SITE WIDE DRAINAGE LAYOUT IS SUBJECT TO FURTHER REVIEW FOLLOWING COMPLETION OF CCTV DRAINAGE SURVEY.

0 5 10
Meters 1:200

NOT FOR CONSTRUCTION

Rev	Date	Description	Drawn	Check
P02	13.02.25	ISSUE FOR PLANNING	HV	AM
P01	31.01.25	FIRST ISSUE	HV	AM

conisbee | Consulting Structural Engineers Consulting Civil Engineers
London • Cambridge • Norwich • Colchester
1-5 Offord St London N1 1DH
Telephone 020 7700 6666
www.conisbee.co.uk

Drawing Status
S3 - SUITABLE FOR REVIEW & COMMENT

Project
MONKS WOOD
POLICE TRAINING CENTRE

Title
DRAINAGE LAYOUT
SHEET 1 OF 4

Drawing No
MONKS-CON-ZZ-XX-D-C-1000

Date JAN 2025
Scale 1:200 @A1
Drawn HV
Engineer AM
Project No **230340**
Revision **P02**