EXISTING SITE DRAINAGE TO BE INVESTIGATED BY CONTRACTOR ON SITE PRIOR TO UNDERTAKING DRAINAGE WORKS.

THE CONTRACTOR IS RESPONSIBLE FOR DEALING WITH THE EXISTING DRAINAGE INFRASTRUCTURE AND REPORTING CONNECTIVITY & CONDITION TO ENGINEER.

ARCHITECT/MEP TO FINALISE ALL DRAINAGE CONNECTION POINTS (FOUL AND SURFACE WATER) & THRESHOLD DRAIN REQUIREMENTS.

RESIDUAL RISKS

1. EXISTING SERVICES WITHIN THE SITE THAT MAY INCLUDE GAS, ELECTRIC, COMMS & WATER MAINS, PHYSICAL IDENTIFICATION REQUIRED ON SITE BEFORE EXCAVATION WORKS IN THESE AREAS.
2. OPEN EXCAVATIONS FOR TRENCHES,MANHOLES AND TANKS. CONTRACTOR TO ENSURE STABILITY OF ALL EXCAVATIONS AND TO PREVENT FALLS INTO THEM DURING THE WORKS.
3. WORKING IN LIVE SEWERS. CONTRACTOR TO ENSURE OPERATIVES ARE FAMILIAR AND COMPETENT WITH THE DANGERS OF WORKING IN LIVE SEWERS.
4. EXCAVATIONS CLOSE TO EXISTING STRUCTURES. CONTRACTOR TO PREPARE METHOD STATEMENT TO ENSURE STABILITY OF EXISTING STRUCTURE.
5. DEEP PROPOSED EXCAVATIONS FOR PURPOSE OF FOUL AND SURFACE WATER DRAINAGE RUNS. CONTRACTOR TO PREPARE METHOD STATEMENT FOR WORKS.

PPIC SW01
300Ø IC
A15 LOAD CLASS
CL: 96.910
IL: 96.510
WITH SUMP Type E

FOUL WATER DIRECT CONNECTION 1
PROPOSED FOUL WATER CONNECTION ONTO EXISTING FW SEWER VIA EXISTING PRIVATE MANHOLE. SUBJECT TO SECTION 106 APPROVAL FROM WELSH WATER
CL: 95.60
IL: 95.25 (INCOMING 100mmØ FW PIPE)
(CONTRACTOR TO CONFIRM EXISTING INVERT LEVEL PRIOR TO COMMENCING DRAINAGE WORKS)
CONTRACTOR TO MAKE GOOD UPON COMPLETION OF WORKS.

PPIC FW01
450Ø IC
A15 LOAD CLASS
CL: 95.680
IL: 95.300
Type E

PPIC SW02
450Ø IC
A15 LOAD CLASS
CL: 95.830
IL: 95.430
WITH SUMP Type E

PPIC SW02
450Ø IC
A15 LOAD CLASS
CL: 95.830
IL: 95.430
WITH SUMP Type E

FFL TBC. BY ARCHITECT

MH01 DS FW
CL: 96.50 (TBC.)
IL: 94.95 (TBC.)

MHØSA
Approx Location

PROPOSED SOAKAWAY 09
CL: 95.300
Top of Soakaway:94.700
IL: 94.550(Incoming Pipe)
IL: 93.900 (Base of Soakaway)

PROPOSED SOAKAWAY - AQUACELL BY WAVIN OR SIMILAR APPROVED. TO BE SET MINIMUM 600mm BELOW GL.
SOAKAWAY DIMENSIONS ARE 4.0m long by 4.0m by 0.8m deep = 12.8m³ STORAGE VOLUME.
ASSUMED INFILTRATION RATE= 1 .3X10⁻⁵m/s TO BE CONFIRMED
Designed for 1 in 100 year + 45% Climate Change Storm Event

0 5m
SCALE 1:100m

A1

KEY

- PROPOSED SURFACE WATER DRAIN (PRIVATE)
- PROPOSED FOUL WATER DRAIN (PRIVATE)
- PROPOSED SW OUTLET PIPE (100mm UNLESS NOTED OTHERWISE)
- PROPOSED SURFACE WATER (PRIVATE) POLYPROPYLENE INSPECTION CHAMBER - TYPE E (300mm Ø - 600mmØ)
- PROPOSED SURFACE WATER CATCHPIT CHAMBER - (300mm Ø - 600mmØ) - PRIVATE
- PROPOSED CHANNEL / SLOT DRAIN
- PROPOSED FOUL WATER POLYPROPYLENE INSPECTION CHAMBER - TYPE D / E (300mm Ø - 600mm Ø)
- SOIL VENT PIPE/SOIL STACK/DISCHARGE
- RWP — RAINWATER PIPE DOWNPIPE
- OU — CHANNEL/SLOT/LAND DRAIN OUTLET UNIT
- PROPOSED GEOCELLULAR SOAKAWAY
- EXISTING PRIVATE FOUL SEWER
- PROPOSED GROUND DIRECTION OF FALL

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NOTES

1. DO NOT SCALE FROM THIS DRAWING. USE ONLY WRITTEN DIMENSIONS.
2. ALL PIPE DIAMETERS ARE IN MILLIMETRES AND ALL LEVELS ARE IN METRES UNLESS OTHERWISE STATED.
3. LOCATIONS AND LEVELS OF CONNECTIONS TO EXISTING SEWERS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORKS. ANOMALIES ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. COVER LEVELS FOR MANHOLES AND INSPECTION CHAMBERS ARE INDICATIVE ONLY - THEY SHALL BE LAID FLUSH WITH THE ADJACENT SURFACING.
5. ALL WORKS TO COMPLY WITH "DESIGN & CONSTRUCTION GUIDE LATEST EDITION". ALL WORKMANSHIP TO BE IN ACCORDANCE WITH CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY (CESWI) UNLESS OTHERWISE STATED.
6. PROPOSED PIPEWORK WITH LESS THAN THE FOLLOWING DEPTHS TO SOFFIT REQUIRES A CONCRETE SURROUND:
   - PROPOSED PIPEWORK WITH <1.2m DEPTH TO SOFFIT IN ROADS/SERVICE AREAS.
   - OR <0.9m DEPTH TO SOFFIT IN PEDESTRIAN AREAS & DOMESTIC DRIVEWAYS WITH 7.5T VEHICLE WEIGHT LIMIT.
   - OR <0.5m DEPTH TO SOFFIT IN PEDESTRIAN AREAS & DOMESTIC DRIVEWAYS WITH NO VEHICLE WEIGHT LIMIT.
   - OR <0.35m DEPTH TO SOFFIT IN LANDSCAPED AREAS REQUIRES CLASS Z BEDDING"
7. PIPEWORK BUILT THROUGH STRUCTURAL WALL SHALL HAVE 50mm CLEARANCE AND A SUITABLE LINTEL INSTALLED TO OPENING.FLEXIBLE JOINTS EITHER SIDE OF THE WALL SHOULD BE LOCATED NOT MORE THEN 150mm FROM THE FACE
8. TYPE D AND E PPIC'S ARE BY WAVIN OR SIMILAR APPROVED.
9. ALL RWP'S ARE TO OUTFALL VIA PLASTIDRAIN INLET HOPPER GULLY - BN 110 P/E OR SIMILAR APPROVED.
10. A 30mm REDUCTION IN LEVEL HAS BEEN ALLOWED FOR IN THE CALCULATION OF INVERT LEVELS FOR ALL BRANCH CONNECTIONS TO PLASTIC INSPECTION CHAMBERS (AS PER WAVIN DETAILS). INVERT LEVELS REFER TO MAIN CHANNEL. IF ALTERNATIVE CHAMBERS ARE PROPOSED THIS VALUE MAY VARY AND THE DESIGNER SHOULD BE CONSULTED.
11. ALL AREAS TO BE SCANNED FOR EXISTING BURIED SERVICES OR OTHER OBSTRUCTIONS PRIOR TO EXCAVATION WORKS.
12. ALL MANHOLE COVER LEVELS AND EXTERNAL FINISHED FLOOR LEVELS ARE TO BE CONFIRMED BY THE ARCHITECT. COVER LEVELS FOR MANHOLES AND INSPECTION CHAMBERS ARE INDICATIVE ONLY - THEY SHALL BE LAID FLUSH WITH THE ADJACENT SURFACING.
13. CONTRACTOR TO CONFIRM INVERT LEVELS OF PROPOSED CONNECTION ON EXISTING WELSH WATER SEWERS.
14. ANY REQUIRED FOUNDATION PENETRATION DETAILS TO BE PROVIDED BY STRUCTURAL ENGINEER.
15. THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED ADOPTABLE LATERAL DRAIN ARE IN ACCORDANCE WITH THOSE SET OUT IN 'SEWERS FOR ADOPTION' 7TH EDITION, AND THE REQUIREMENTS OF UU AS THE STATUTORY SEWERAGE UNDERTAKER.
16. PLASTIC PIPEWORK IS TO BE INSTALLED (POLYPIPE OR SIMILAR APPROVED) IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION. ALL THERMOPLASTIC PIPEWORK SHALL COMPLY WITH THE REQUIREMENTS OF E2.21 & E2.22 (PAGE 89) OF SEWERS FOR ADOPTION 7TH EDITION.
17. ANY PIPE RUNS WITH LESS THAN 0.9m COVER LOCATED WITHIN NON-TRAFFICKED AREAS ARE TO BE 150mm GEN CONCRETE BED AND SURROUND.
18. ALL SVP LOCATIONS AND DISCHARGE UNITS ARE PROVIDED BY M&E ENGINEER OR ARCHITECT.
19. DRAINAGE CONNECTIONS TO BE MADE SOFFIT TO SOFFIT FOR SURFACE WATER.
20. ALL FOUL SEWAGE FROM THE TOILET CABINS TO BE STORED IN ABOVE GROUND TANKS CONTAINED WITHIN THE CABINS AND TANKERED OFF SITE AS NECESSARY.

REV	DATE	DESCRIPTION	DRN	CHD	APPD
R1	26/08/26	FOR APPROVAL & CONDITIONS DISCHARGE	BBP	CLS	AJF

DRG. STATUS
FOR APPROVAL

AJF ENGINEERING CONSULTANTS

CLIENT
MRS MEGAN WILLIAMS

PROJECT
LAND AT 10 FFORDD CAERFYDDIN, WREXHAM, LL11 2LD

DRG. TITLE
PROPOSED FOUL & SURFACE WATER DRAINAGE LAYOUT

DRG.NO. 26175-AJF-ZZ-ZZ-DR-C-501
REV R1