

NOTES

- Drawings to be read in conjunction with all services and structural engineers drawings & specifications.
- This document must not be altered, reproduced or distributed without prior written consent of the originator.
- Do not scale from this document – use figured dimensions only.
- All dimensions must be checked on site prior to commencement of any related works.
- Contractor to provide and have an approved method statement prior to works.
- This drawing shall be read in conjunction with the civil engineering specification, and all relevant Architect's and Engineer's drawings.
- All setting out to be in accordance with the Architects drawings. Any discrepancies between Ridge and the Architects drawings to be referred to the Architect before proceeding. Dimensions must not be scaled.
- All levels are in metres above ordnance datum.
- The Contractor is to comply full with CDM regulations in the course of constructing the works.
- At the commencement of the works, the Contractor is to carry out trial pits and liaise with utility companies in order to establish the exact position of all existing utility plant in the vicinity of the works and take adequate precautions for their protection.
- The Contractor is to refer to Health and Safety Executive 'Note 47 – Avoiding Danger from Underground Services' and Document C56 – Avoiding Danger from Overhead Electric Lines'.
- Works on or adjacent to existing public highway will be executed in accordance with the Traffic Safety Code for Road Works and Traffic Signs Manual: Chapter 8.
- The Contractor will ascertain the CBR value of the subgrade in order to determine the required sub-base / capping thickness.
- Prior to laying any material, the subgrade must be inspected and any soft spots removed and filled with 6F2 capping material.
- Prior to the construction of any drainage works, the Contractor is to confirm the invert levels of existing manholes, drains and sewers. Any variations from the designed levels shown on the drawings must be reported to the Drainage Engineer in advance of construction works commencing. All new sewers and drains are to be laid in sequence starting from the outfall location.
- All drainage to be installed in accordance with relevant Building Regulation documents and current Sewers for Adoption. Connections to public sewers are to be agreed and inspected by the Water Authority.
- All drain and sewer pipes are #100mm and laid soffit to soffit, unless shown otherwise.
- Invert to base of soil stack bands to be 450mm below lowest branch connection for up to three storey buildings; for buildings up to five storeys, the invert to the base of soil stack bands should not be less than 750mm. All foul and surface water drainage stacks are to have above ground radding access. Refer to above ground drainage layout(s) by others.
- All RWP and SVP setting is to be confirmed by the Architect. All below ground connections are to match above ground outlet size, minimum #100mm.
- SVPs are to project 100mm above finished floor level.
- All internal manholes and inspection chambers to have double sealed recessed covers to suit floor finishes as defined by the Architect.
- All external covers in non-tarmac areas are to have recessed covers to suit the paving material.
- This drawing has been produced in colour and should be reproduced in colour for clarity.
- A CCTV survey and report in WINCAN format for all new drainage will be required prior to 'as built' drawing being issued.
- The Contractor is responsible for the traffic safety and management associated with the construction of the works. Works will not commence on the existing highway until their traffic management proposals have been agreed with Highway Authority.
- Where the works involve the obstruction of a footway, the Contractor will provide an alternative safe footway properly signed, guarded and lit.
- Where one-way traffic is unavoidable, traffic will be controlled by a proper system of vehicle-actuated traffic signals or manual stop / go signs and during the hours of darkness, by a proper system of vehicle-actuated traffic signals, all to the approval of Highway Authority.
- 65mm Minimum thickness tactile paving, coloured buff will be incorporated at all pedestrian crossings in accordance with the Department for Transport and Regions document "Guidance on the Use of Tactile Paving Surfaces." (DETR No. 1998)
- All signs and road markings will be in accordance with the "Traffic Signs Regulations and General Directions 2016". (TSRGD 2016)
- All excavation and backfilling work in the existing highway to be in accordance with the provisions of the New Street Works Act 1991 or that specified on the working drawings.
- All highways works to be carried out in accordance with Highway Authority's highway standards, to the satisfaction of the Highway Authority Site 278 Inspector and in accordance with the Specification for Highway Works.
- Gullies, gully connections, drains, manholes, catch pit, soakways, headwalls and other drainage structures intended to convey only highway water are to be constructed in accordance with the specification of Highway Authority and to the satisfaction of the Highway Inspector.
- Where existing junctions and accesses are to remain in operation within the works during the construction process, the Contractor will ensure that access to these units remains available at all times.
- Highways in the vicinity of the works must be kept free from mud, debris and dust falling from vehicles or wheels of vehicles connected with the works. Where the deposits of debris and mud are unavoidable, warning signs must be displayed whilst work is in progress and affected carriageways / footways must be regularly cleaned.

- Source:
- Topographical survey by ? Drawing No. ? dated ?
 - Architect's layout by ? Drawing No. ? dated ?

DRAINAGE STRATEGY

INFILTRATION - A HIGH WATER TABLE, COHESIVE NATURAL GROUND AND LACK OF SPACE >5m FORM FOUNDATIONS MAKE INFILTRATION UNFEASIBLE

WATERCOURSE - THE NEAREST WATERCOURSE IS THE RIVER MEDLOCK, 500m EAST OF THE SITE. THE NEAREST WATER BODY IS ANCOATS MARINA, 200m SOUTH OF THE SITE.

SURFACE WATER SEWER - THERE ARE NO SURFACE WATER SEWERS IN THE VICINITY OF THE SITE. THE HIGHWAY DRAINS DRAIN TO THE COMBINED SEWER

COMBINED SEWER - THE ONLY REMAINING OPTION FOR THE DISCHARGE OF SURFACE WATER IS THE UU COMBINED SEWER.

UU HAVE AGREED A DISCHARGE RATE FOR SURFACE WATER OF 7.5 l/s (A 50% REDUCTION IN EXISTING FLOW.

A WASTOP IS TO BE INSTALLED ON THE OUTLET TO THE SURFACE WATER SYSTEM TO PREVENT ODOURS IN THE SURFACE WATER NETWORK.

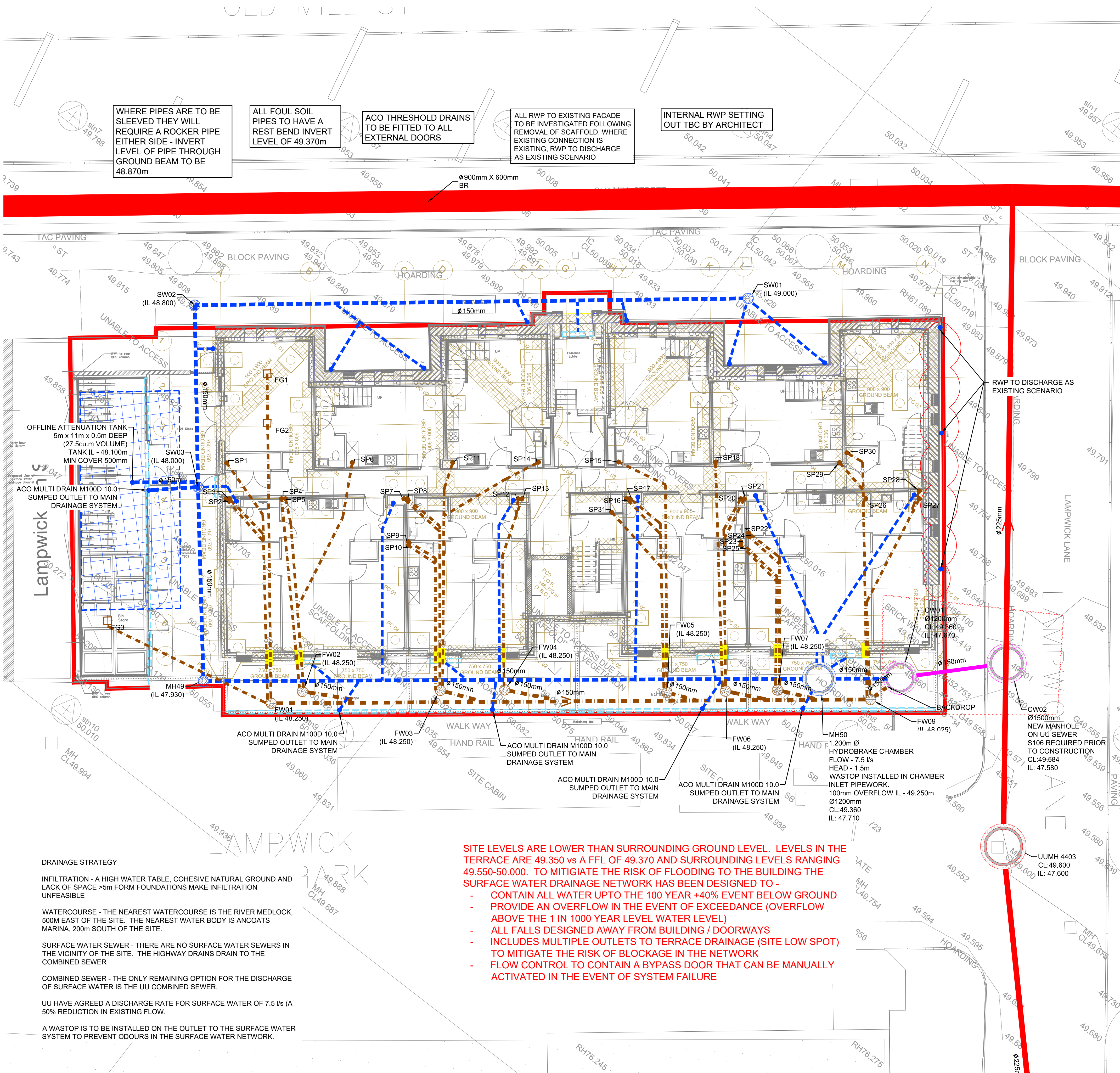
WHERE PIPES ARE TO BE SLEEVED THEY WILL REQUIRE A ROCKER PIPE EITHER SIDE - INVERT LEVEL OF PIPE THROUGH GROUND BEAM TO BE 48.870m

ALL FOUL SOIL PIPES TO HAVE A REST BEND INVERT LEVEL OF 49.370m

ACO THRESHOLD DRAINS TO BE FITTED TO ALL EXTERNAL DOORS

ALL RWP TO EXISTING FACADE TO BE INVESTIGATED FOLLOWING REMOVAL OF SCAFFOLD. WHERE EXISTING CONNECTION IS EXISTING, RWP TO DISCHARGE AS EXISTING SCENARIO

INTERNAL RWP SETTING OUT TBC BY ARCHITECT



SITE LEVELS ARE LOWER THAN SURROUNDING GROUND LEVEL. LEVELS IN THE TERRACE ARE 49.350 vs A FFL OF 49.370 AND SURROUNDING LEVELS RANGING 49.550-50.000. TO MITIGATE THE RISK OF FLOODING TO THE BUILDING THE SURFACE WATER DRAINAGE NETWORK HAS BEEN DESIGNED TO -

- CONTAIN ALL WATER UP TO THE 100 YEAR +40% EVENT BELOW GROUND
- PROVIDE AN OVERFLOW IN THE EVENT OF EXCEEDANCE (OVERFLOW ABOVE THE 1 IN 1000 YEAR LEVEL WATER LEVEL)
- ALL FALLS DESIGNED AWAY FROM BUILDING / DOORWAYS
- INCLUDES MULTIPLE OUTLETS TO TERRACE DRAINAGE (SITE LOW SPOT) TO MITIGATE THE RISK OF BLOCKAGE IN THE NETWORK
- FLOW CONTROL TO CONTAIN A BYPASS DOOR THAT CAN BE MANUALLY ACTIVATED IN THE EVENT OF SYSTEM FAILURE

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DRAWING NOTES:

CDM REGULATIONS 2015

SIGNIFICANT OR NON-TRIVIAL RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER



KEY

- EXISTING UU COMBINED SEWER
- PROPOSED FOUL DRAIN
- PROPOSED SURFACE DRAIN
- PROPOSED ACO
- PROPOSED ATTENUATION
- PIPE SLEEVED THROUGH GROUND BEAM

P09	ACO OUTLET UPDATE	05.04.22	AP	PB
P08	AMENDMENTS TO M&E FOUL POP UP	22.03.22	AP	PB
P07	STAGE 4	18.02.22	PB	PB
P06	OFF SITE DRAINAGE CONNECTION CONFIRMED	17.12.21	PB	PB
P05	SITE LEVELS LOWERED	09.07.21	PB	PB
P04	RED LINE BOUNDARY UPDATE	05.05.21	PB	PB
P03	M&E FOUL POP UP CO-ORDINATION	20.04.21	PB	PB
P02	PRELIMINARY ISSUE	20.04.21	PB	PB
P01	ISSUED FOR PLANNING	06.04.21	PB	PB

REV	DESCRIPTION	DATE	BY	CHKD
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ORIGINATOR:

RIDGE
PROPERTY & CONSTRUCTION CONSULTANTS

7TH FLOOR
BELVEDERE HOUSE
12 BOOTH STREET
MANCHESTER M2 4AW
TEL: 0161 833 9579
WWW.RIDGE.CO.UK

CLIENT:

ERIC WRIGHT

IN ASSOCIATION WITH:

GREAT PLACES HOUSING GROUP LTD

PROJECT:

ANCOATS DISPENSARY

TITLE:

PROPOSED DRAINAGE
GENERAL ARRANGEMENT

ENG/TECH:	CSE:	ICSE:	SCALE:	1:100	@ A1
PB	PB	ED	STATUS ISSUE:	D2	

STATUS:

PRELIMINARY

UNLESS ISSUED FOR CONSTRUCTION - WORKS AT CLIENT/CONTRACTORS RISK

SUITABILITY: S2 - Issued for Information

PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
210005	RDG	XX	XX	DR	C	0100	P09