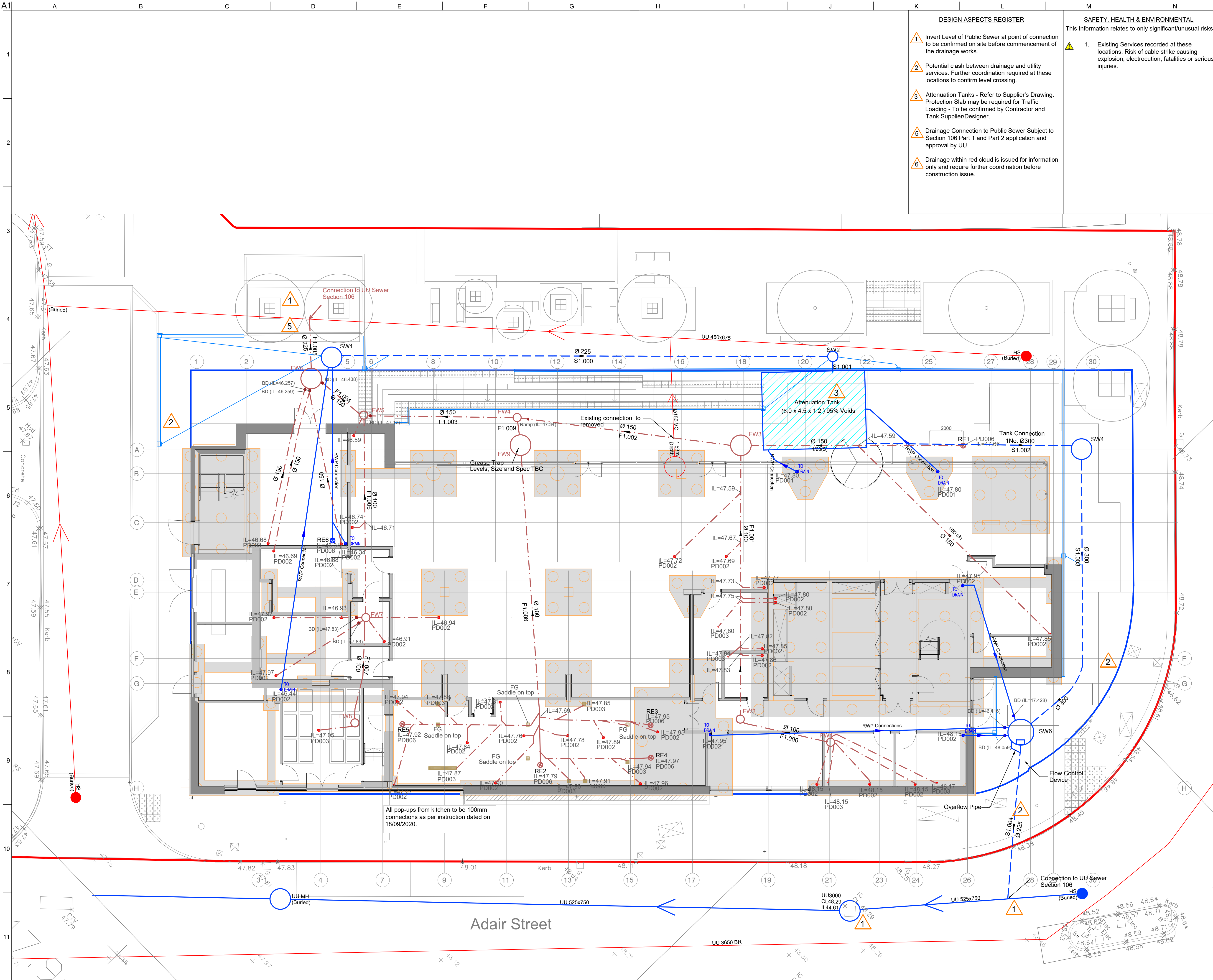




- DESIGN ASPECTS REGISTER
- 1 Invert Level of Public Sewer at point of connection to be confirmed on site before commencement of the drainage works.
 - 2 Potential clash between drainage and utility services. Further coordination required at these locations to confirm level crossing.
 - 3 Attenuation Tanks - Refer to Supplier's Drawing. Protection Slab may be required for Traffic Loading - To be confirmed by Contractor and Tank Supplier/Designer.
 - 5 Drainage Connection to Public Sewer Subject to Section 106 Part 1 and Part 2 application and approval by UU.
 - 6 Drainage within red cloud is issued for information only and require further coordination before construction issue.

- SAFETY, HEALTH & ENVIRONMENTAL
- This Information relates to only significant/unusual risks
- 1. Existing Services recorded at these locations. Risk of cable strike causing explosion, electrocution, fatalities or serious injuries.

- Notes
- All dimensions are in metres, all levels in mOD unless specified otherwise.
 - This drawing is copyright and is for use at the permission of Arup. This drawing should be read in conjunction with all relevant consultants drawings and specifications.
 - Layout is based on drawing 63048-SSL-ZZ-00-DR-A-2000 Rev P17.
 - All gully and linear drainage connections are to be 150mm diameter.
 - Final gully and channel locations to be verified on site by contractor taking into account final architect's paving layout and installation details.
 - Connection levels to existing drainage to be confirmed on site by contractor. If different that stated, engineer is to be informed.
 - Pop-Up Locations are based on drawings 7396-SSL-ZZ-00-DR-A-2300_P10 63048-ABE-XX-00-DR-M-5200
 - Specification: All drainage to be in accordance with the Building Regulations Part H and Civil Engineering Specification for the Water Industry (CESWI) 7th Edition.
 - Pipe Materials (Below Slab Drainage):
Cast Iron (BS EN 877) - For all drainage routed through sub-structure
Pipex PPH SDR 17.6 single containment system to BE EN 1852
Pipe Materials (External Drainage):
Vitrified Clay (BS 65 and BS EN 295);
PVC (BS EN 13476-1 and BS EN 13476-3)
 - Drainage based on domestic/commercial effluent only.
 - All FW Pipes to be Ø100 at 1:40 slope unless otherwise specified on the plan/schedules
All SW Pipes to be Ø150 at 1:60 slope unless otherwise specified on the plan/schedules
 - All Drainage Connections to Public Sewer (FW & SW) subject to Section 106 Application with United Utilities before commencement of the works
 - Invert Level of Existing UU Sewers at the point of connection to be confirmed before commencement of the drainage works.
 - All above ground drainage to have an access point immediately above ground floor level for rodding, to allow for inspection of the below slab connection.

- Key
- Planning Application Boundary
 - Client Ownership Boundary
 - Attenuation Tank
 - Linear Drainage Channel
 - Gully
 - Proposed Surface Water Pipe
 - Proposed Foul Water Drainage
 - Existing UU Foul Sewer
 - Existing UU Surface Sewer

C05	07/05/21	ARR	AR	AR
Last Construction Issue				
C04	29/09/20	ARR	AR	AR
Issued for Construction				
Rev	Date	By	Chkd	Appd

ARUP

10th Floor, the Plaza
100 Old Hall Street, Liverpool, L3 9QU
Tel +44 (0)151 227 9397
www.arup.com

Client
Capital and Centric

Project Title
**Leonardo Hotel
Adair Street, Manchester**

Drawing Title
**Proposed Drainage
Layout Plan
Phase 2**

Scale at A1
1:100

Role
Civil

Suitability
- For Construction

Arup Job No
264397

Name
63048-ARP-ZZ-ZZ-DR-D-5001

Rev
C05