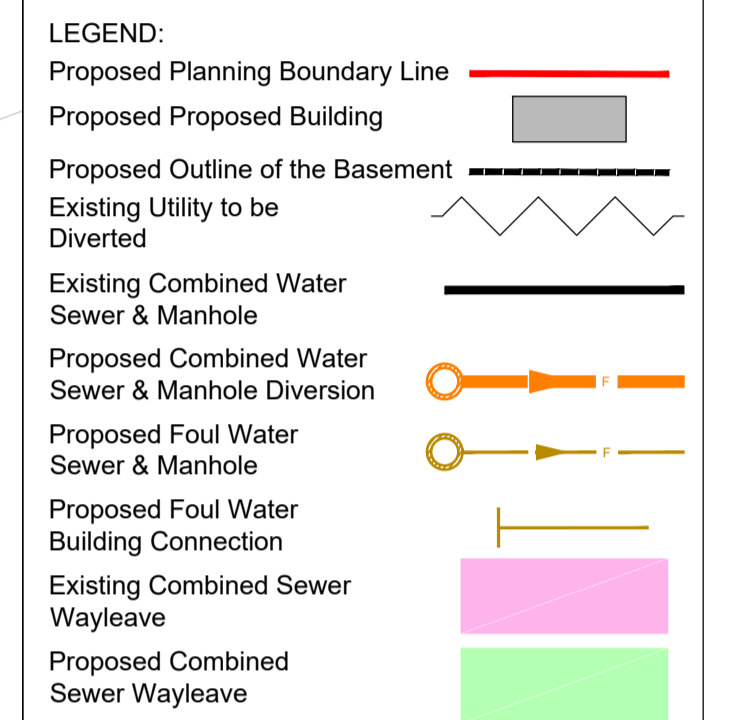


- Notes:**
- All levels relate to OD Malin Head and are in meters.
 - Do not scale from this drawing. If in doubt, ask.
 - This drawing should be read in conjunction with all relevant and available documentation.
 - Ordnance Survey Ireland License No. EN0002821 © Ordnance Survey Ireland/Government of Ireland.
 - Existing foul water infrastructure based on record drawings received from Irish Water & Cork City Council.
 - All foul water drainage to be designed and constructed in accordance with Irish Water Code of Practice and Standard Details.
 - All pipework shall be Polypropylene Polysewer and fittings, or similar approved and to have a minimum cover of 900mm in non-trafficable areas and 1.2m in trafficable areas.
 - Outlet pipes from buildings to be min 150mm dia. Outlets from buildings to discharge to an inspection chamber (IC) prior to discharge to the main carrier sewer. IC's not shown for clarity.
 - Runoff from undercroft basement to be collected by channel drains and discharged to the FW network.
 - Refer to drawing 252666-ARUP-ZZ-XX-DR-C-6000 and 6001 for drainage details.



P07	16/02/22	RM	RM	J.MacC
Issued for Planning				
P06	18/01/22	RM	RM	J.MacC
Issued for Information				
P05	20/12/21	WC	RM	J.MacC
Issued for Information				
P04	01/12/21	RM	RM	J.MacC
Issued for Information				
P03	18/11/21	BH	RM	J.MacC
Issued for Information				
P02	04/11/21	ROD	RM	J.MacC
Issued for Information				
P01	06/08/21	ROD	RM	J.MacC
Issued for Information				
Rev	Date	By	Chkd	Appd

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CREAMFIELDS

Project Title
Creamfields Residential Development

Drawing Title
Proposed Foul Water Layout

Scale at A1
 1:500

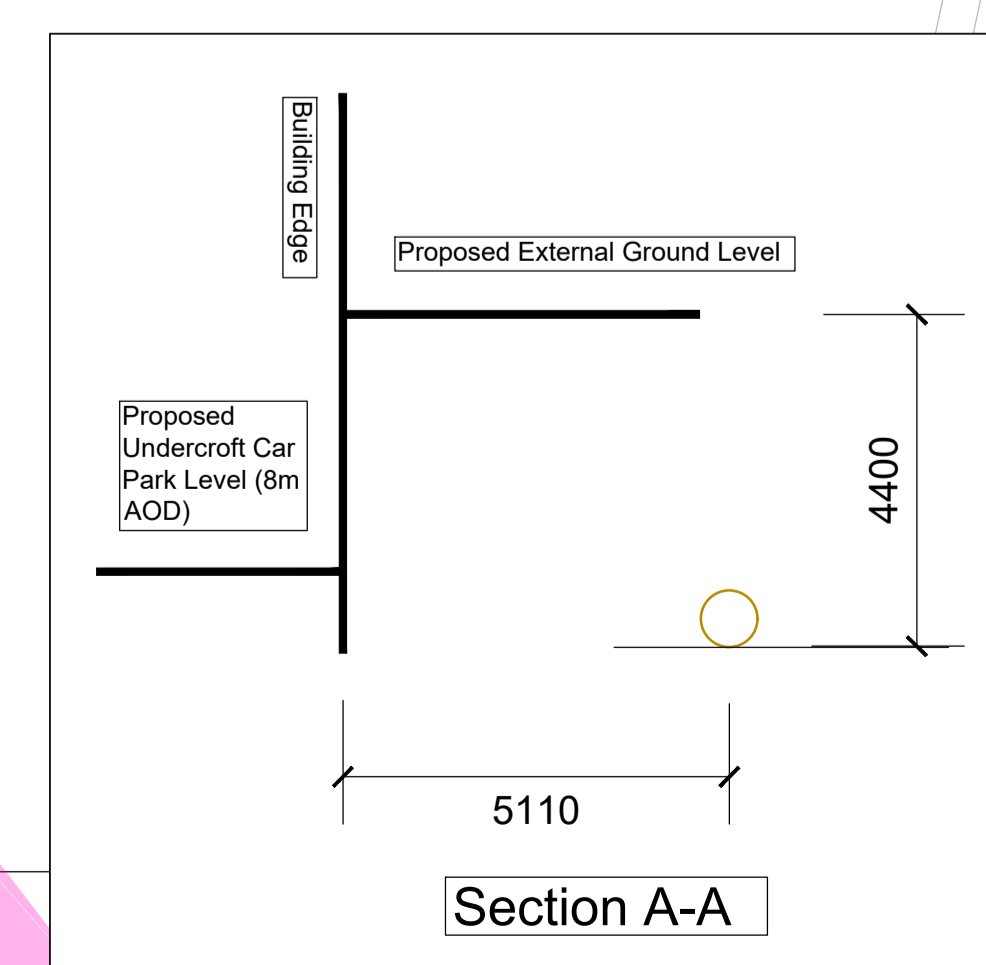
Role
 Site Infrastructure

Suitability
 S2 - Suitable for Information

Arup Job No
252666-00

Rev
P07

Name
252666-ARUP-ZZ-XX-DR-C-2000



Stub connection provided for potential future connection from the south as per IW request. Invert Level of FWMH16 and downstream pipe size to be agreed with Irish Water at detailed design stage to ensure feasibility of connections from the south.

Control Kiosk. Exact location TBC at detailed design stage. Location to ensure adequate access but be screened as much as possible by surrounding landscaping.

PS Inlet Manhole
 CL: 7.25m
 BD IL: 4.05m
 IL: 2.75m

1.8 dia circular wet well with 0.9mx0.9m cover

Approx. 182m³ (8mx6.5mx3.5m deep) below ground emergency storage in line with IW CoP. Tank to be cast in situ reinforced concrete. Access covers to be provided as shown.

Permeable surfacing with weed barrier to Irish Water requirements.

Valve chamber
 Chamber: 2.5mx1.8m
 Cover 1.4mx0.8m

Adjacent hardstanding will be rated for vehicle loading to accommodate maintenance vehicles

Flow meter chamber in line with IW requirements
 Chamber: 1.5mx1.5m
 Cover: 0.9mx0.9m

Vent pipe from wet well and emergency storage to terminate at roof level of nearest building. Activated carbon filters to be provided. Exact venting details to be developed at detailed design.

- FW PS Notes:**
- 2 No. Flygt Centacor XPC configured duty/stand-by will be provided within the wet well. Refer to Site Infrastructure Report 252666-ARUP-ZZ-XX-DR-C-0001 section 4.2.3 for more information.
 - It is intended that the pumping station will be taken in charge by Irish Water and that Irish Water will be consulted at detailed design stage to agree details.
 - An operational/maintenance method statement will be prepared and agreed with Irish Water at detailed design stage. Refer to drawing 252666-ARUP-ZZ-XX-DR-C-6002 for section B-B and further information related to the FW pumping station.

Proposed Development Use

Block A	Residential (90 apartments)
B	Residential (116 apartments)
C	Residential (115 apartments, Cafe(272m ²), Gym(550m ²) & Retail(218m ²)
E	Residential(142 apartments), Creche(289m ²) & Community Hub(548m ²)
G	Residential (5 GF apartments with 5 townhouses above)
H	Residential (4 GF apartments with 4 townhouses above)
I	Residential (4 GF apartments with 4 townhouses above)
J	Residential (15 GF townhouses/apartments with 54 apartments above)
L	Residential (9 GF apartments with 9 townhouses above)
M	Residential (3 GF apartments with 3 townhouses above)
N	Residential (9 GF apartments with 9 townhouses above and a further 9 apartments above townhouses)

Foul Water Diversion Notes:
 Hydraulic Calcs:
 The existing 600mm dia pipe is at an average gradient of 1 in 167 across the site and has a capacity of 474 l/s. The diverted pipe is proposed to be a 750mm dia pipe laid at 1 in 381 which has a capacity of 565 l/s.

An existing and proposed microdrainage model have been prepared. Results of these are presented within 252666-ARUP-ZZ-XX-FN-C-0001.

Proximity of diverted pipe to proposed building:
 The distance from proposed building edge to outside face of the proposed diverted pipe is predominantly at least 5m. There are some instances where it is locally slightly less than 5m as indicated by the dimensions provided on plan. At all points the horizontal offset is greater than the depth of the pipe as described in section A-A. This ensures the pipe sits outside the potential zone of influence of the building foundations and also provides sufficient space to access the asset in the future.

Wayleaves:
 A wayleave of 8m (4m either side of the centreline of the pipe) is indicated on the proposed diverted sewer. The existing wayleave shown on the existing pipe is indicative.

**Inset 1
 FW Pumping Station Layout
 Scale 1:250**