

HQ Developments Limited c/o Feargal O'Sullivan,
Arup,
Albert Quay,
Cork

26 June 2019

Uisce Éireann
Bosca OP 448
Oifig Sheachadta
na Cathrach Theas
Cathair Chorcaí

Irish Water
PO Box 448
South City
Delivery Office
Cork City

www.water.ie

**Re: Design Submission for Horgans Quay, Railway Street, Cork (the “Development”)
(the “Design Submission”) / Connection Reference No: CDS19002038**

Dear Feargal,

Many thanks for your recent Design Submission.

We have reviewed your proposal for the connection(s) at the Development. Based on the information provided, which included the documents outlined in Appendix A to this letter, Irish Water has no objection to your proposals.

This letter does not constitute an offer, in whole or in part, to provide a connection to any Irish Water infrastructure. Before you can connect to our network you must sign a connection agreement with Irish Water. This can be applied for by completing the connection application form at www.water.ie/connections. Irish Water's current charges for water and wastewater connections are set out in the Water Charges Plan as approved by the Commission for Regulation of Utilities (CRU) (https://www.cru.ie/document_group/irish-waters-water-charges-plan-2018/).

You the Customer (including any designers/contractors or other related parties appointed by you) is entirely responsible for the design and construction of all water and/or wastewater infrastructure within the Development which is necessary to facilitate connection(s) from the boundary of the Development to Irish Water's network(s) (the “**Self-Lay Works**”), as reflected in your Design Submission. Acceptance of the Design Submission by Irish Water does not, in any way, render Irish Water liable for any elements of the design and/or construction of the Self-Lay Works.

If you have any further questions, please contact your Irish Water representative:

Name: PJ Murphy

Phone: 022 52267

Email: pjmurphy@water.ie

Yours sincerely,



Maria O'Dwyer
Connections and Developer Services

Appendix A

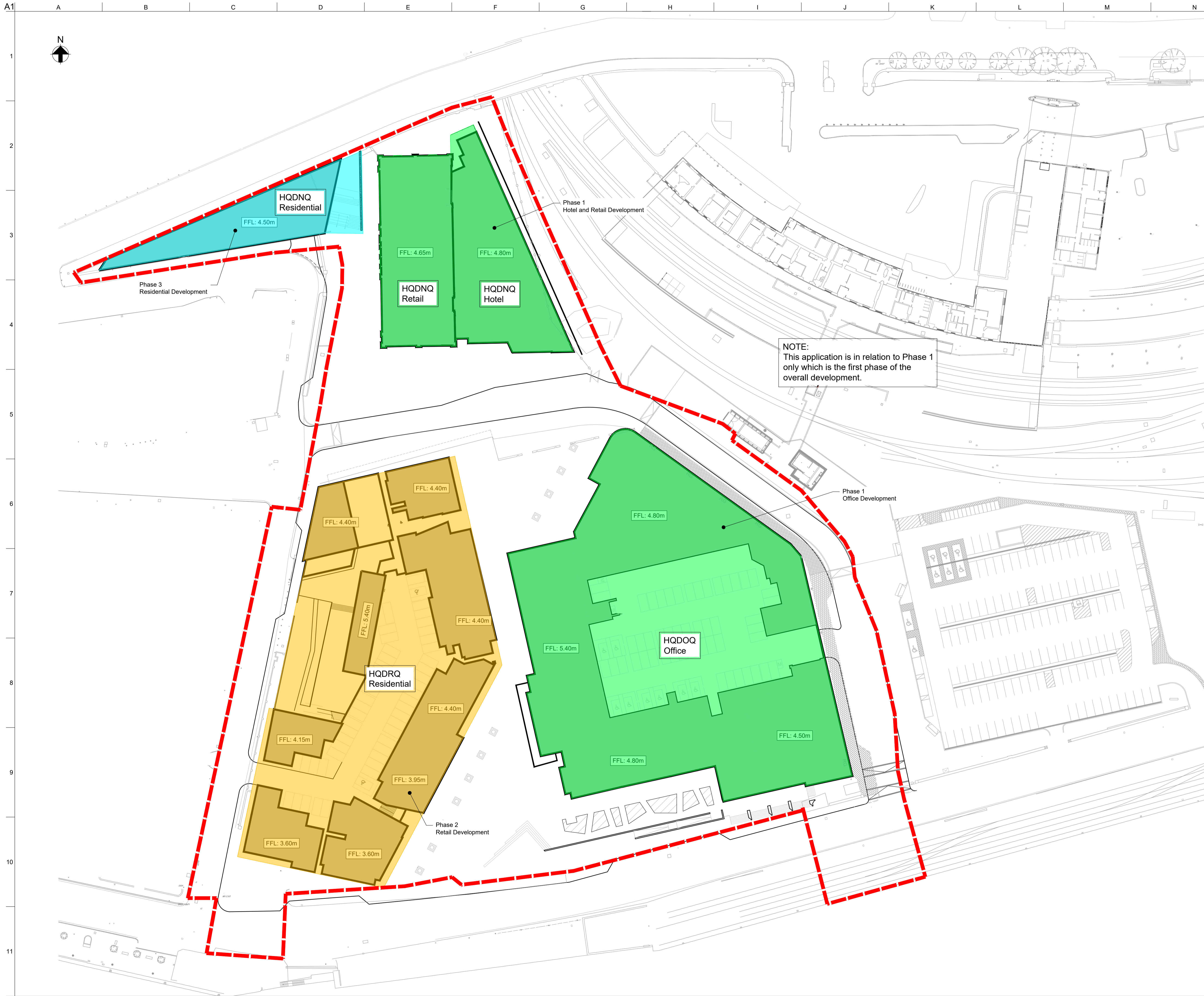
Document Title & Revision

- HQDPR-ARP-ZZ-XX-DR-C-0011-P02 Overall Site and Phasing Layout
- HQDPR-ARP-ZZ-XX-DR-C-1400-C02 Proposed Foul Drainage Layout
- HQDPR-ARP-ZZ-XX-DR-C-1500-C02 Proposed Water Main Layout
- HQDPR-ARP-ZZ-XX-DR-C-3304-P02 Proposed Foul Drainage Longitudinal Sections

Standard Details/Code of Practice Exemption: N/A

For further information, visit www.water.ie/connections

Notwithstanding any matters listed above, the Customer (including any appointed designers/contractors, etc.) is entirely responsible for the design and construction of the Self-Lay Works. Acceptance of the Design Submission by Irish Water will not, in any way, render Irish Water liable for any elements of the design and/or construction of the Self-Lay Works.



NOTE:
This application is in relation to Phase 1 only which is the first phase of the overall development.

Notes:
1. This drawing is to be read in conjunction with the Connection Application form to Irish Water and all other relevant documents as part of application.

- Legend:**
- Site Location Boundary - - - - -
 - Phase 1 Buildings Extents
 - Phase 2 Buildings Extents
 - Phase 3 Buildings Extents

P02	07/06/19	D.F.	F.O.S.	J.D.
Issued to Irish Water				
P01	11/04/19	D.F.	F.O.S.	J.D.
Irish Water Connection Application				
Rev	Date	By	Chkd	Appd

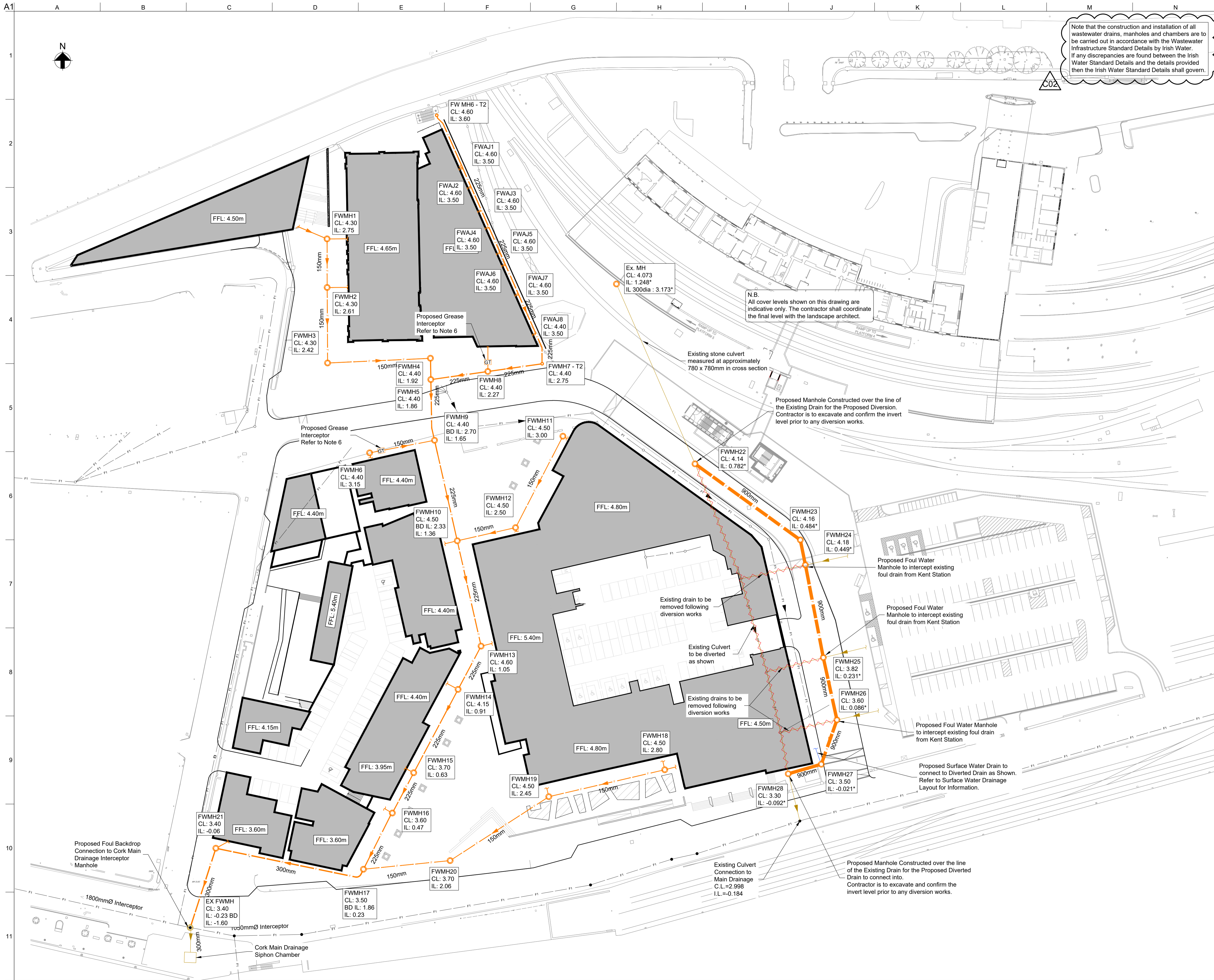
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Project Title
HQ Horgan's Quay

Drawing Title
Overall Site and Phasing Layout for Irish Water Connection Application

Scale at A1: 1:500
Role: Civil
Suitability: S2 - Suitable for Information
Arup Job No: **252901-00** Rev: **P02**
Name: **HQDPR-ARP-ZZ-XX-DR-C-0011**



Note that the construction and installation of all wastewater drains, manholes and chambers are to be carried out in accordance with the Wastewater Infrastructure Standard Details by Irish Water. If any discrepancies are found between the Irish Water Standard Details and the details provided then the Irish Water Standard Details shall govern.

N.B. All cover levels shown on this drawing are indicative only. The contractor shall coordinate the final level with the landscape architect.

Existing stone culvert measured at approximately 780 x 780mm in cross section

Proposed Manhole Constructed over the line of the Existing Drain for the Proposed Diversion. Contractor is to excavate and confirm the invert level prior to any diversion works.

Proposed Foul Water Manhole to intercept existing foul drain from Kent Station

Proposed Foul Water Manhole to intercept existing foul drain from Kent Station

Proposed Foul Water Manhole to intercept existing foul drain from Kent Station

Proposed Surface Water Drain to connect to Diverted Drain as Shown. Refer to Surface Water Drainage Layout for Information.

Proposed Manhole Constructed over the line of the Existing Drain for the Proposed Diverted Drain to connect into. Contractor is to excavate and confirm the invert level prior to any diversion works.

- Notes:**
- This drawing shall be read in conjunction with all other relevant specifications & drawings including civil site drawings.
 - All foul water pipework shall be Polypropylene (PP) or Polyethylene (PE) pipe and fittings, or similar approved.
 - Drains designed to achieve a min. self-cleansing velocity of 0.75m/s
 - All pipes and manholes shall be constructed as per construction details drawings.
 - All manhole covers shall be Noroc ductile iron covers by EJ Covers with a load classification D400 to IS EN 124.
 - All discharges from food preparation areas shall be treated for FOG in a grease interceptor designed in accordance with BS EN 1825. External Grease Trap Units to be stainless steel units by Kent Stainless supplied with D400 covers. Covers are to be recessed in paved areas.
 - Proposed Foul Water AJ chambers to be Wavin Range 315 IC or similar approved.
 - Proposed Foul Water Manhole Type 2 to be Wavin Range 600 IC or similar approved.
 - For Longitudinal sections to drainage line refer to Drawing No. HQDPR-ARP-ZZ-XX-DR-C-3304

- Legend:**
- Proposed Foul Drain
 - Proposed Foul Manhole Type 1
 - Proposed Foul Manhole Type 2
 - Existing Main Drainage Network
 - Existing Drainage to be Diverted and Removed
 - Proposed Grease Interceptor
 - Proposed Foul Drain Access Chamber

C02	17/06/19	C.F.	D.F.	F.O.S
Issued for Construction (Status A4)				
C01	18/04/19	C.F.	D.F.	F.O.S
Issued for Construction (Status A4)				
P10	12/04/19	D.F.	F.O.S.	J.D.
Issued for Partial Construction				
P09	11/04/19	D.F.	F.O.S.	J.D.
Irish Water Connection Application				
P08	13/03/19	J.B.	F.O.S.	J.D.
Issued for Partial Construction				
P07	12/03/19	J.B.	F.O.S.	J.D.
Issued for Pre-Connection Enquiry				
P06	07/03/19	J.B.	F.O.S.	F.O.S
Issued for Construction Approval				
P05	18/02/19	J.B.	F.O.S.	J.D.
Issued for Planning				
P04	15/01/19	J.B.	F.O.S.	J.D.
Revisions as Clouded				
Rev	Date	By	Chkd	Appd

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Client
HQ **bam**
CLARENDON

Project Title
HQ
Horgan's Quay

Drawing Title
Proposed Foul Drainage Layout

Scale at A1
 1:500

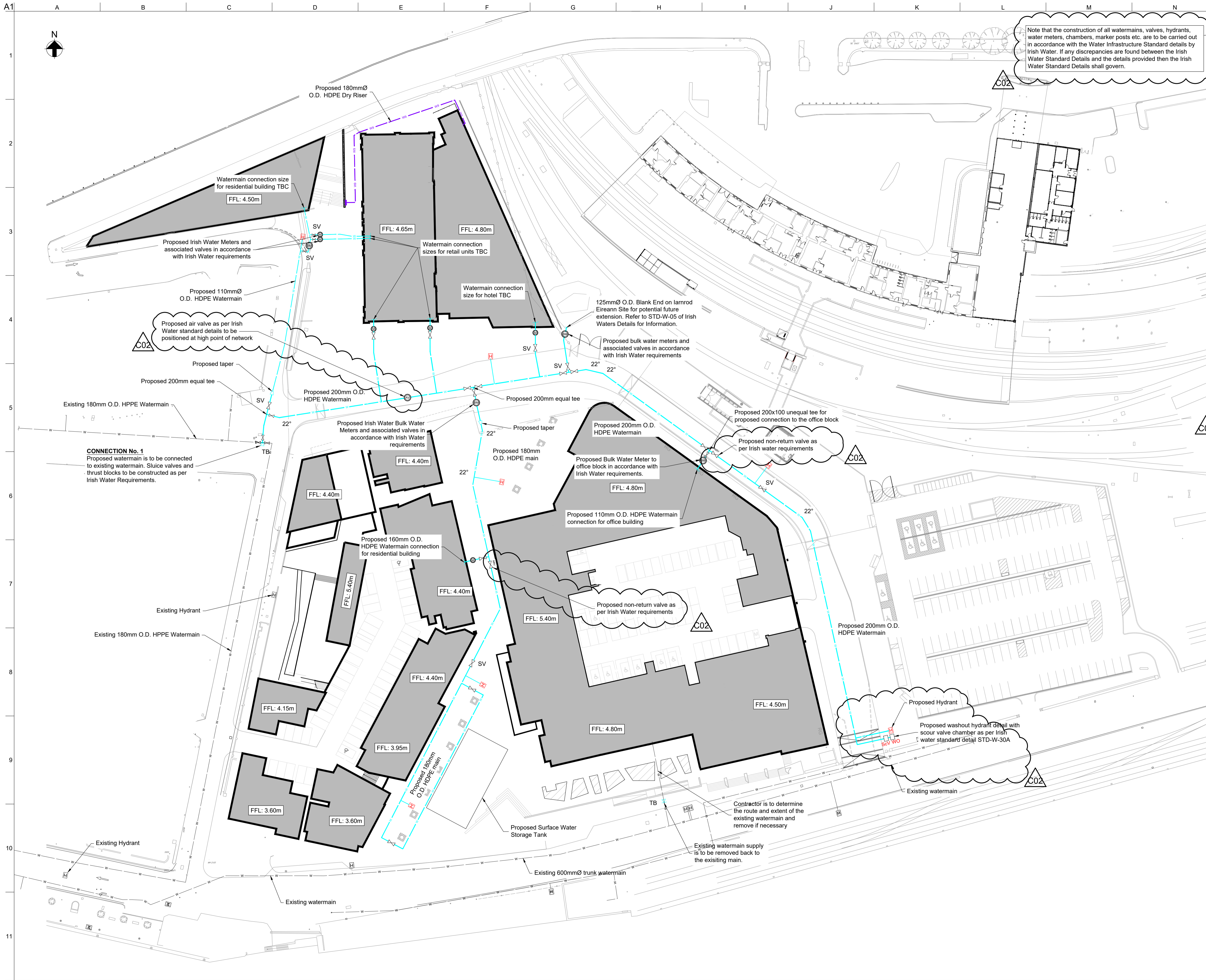
Role
 Civil

Suitability
 A4 - Approved as Stage Complete

Arup Job No
252901-00

Rev
C02

Name
HQDPR-ARP-ZZ-XX-DR-C-1400



Note that the construction of all watermains, valves, hydrants, water meters, chambers, marker posts etc. are to be carried out in accordance with the Water Infrastructure Standard details by Irish Water. If any discrepancies are found between the Irish Water Standard Details and the details provided then the Irish Water Standard Details shall govern.

- Notes:**
- This drawing shall be read in conjunction with all other relevant engineering specifications & drawings including civil site drawings.
 - All potable water pipework shall be HDPE, SDR 17 pipework and fittings. Fire water pipework shall be HDPE, SDR 11 pipework and fittings.
 - Thrust blocks shall be constructed where identified on the layout.
 - Sluice valves shall be installed on all branch connections and on fire hydrant branch connections. All valves shall be Anti-clock closing. A water meter shall be installed on the potable supply for each property. The meter shall be as per Irish Water requirements.
 - All sluice valves and chambers are to be constructed as per Irish Water Requirements.
 - This drawing should be read in conjunction with all Irish Water specifications and standard construction drawings.
 - Separation distances required shall be as per Irish Water requirements. Ref to Irish Water standard details drawing STD-W-11 for information.

Legend:

- Existing Watermain:
- Proposed Watermain:
- Proposed Dry Riser:
- Proposed Hydrant:
- Proposed Thrust Block:
- Existing Hydrant:
- Proposed Boundary Box with Meter as per Irish Water Details:
- Proposed Bulk Irish Water Meter:
- Proposed Sluice Valve:
- Proposed Air Valve chamber:
- Proposed Non-return valve:
- Proposed Scour Valve and Wash-out Chambers:

C02	17/06/19	D.F.	F.O.S.	J.D.
Issued for Construction (Status A4)				
C01	18/04/19	C.F.	D.F.	F.O.S
Issued for Construction (Status A4)				
P08	12/04/19	C.F.	D.F.	F.O.S.
Issued for Partial Construction				
P07	11/04/19	D.F.	F.O.S.	J.D.
Irish Water Connection Application				
P06	12/03/19	J.B.	F.O.S.	J.D.
Issued for Pre-Connection Enquiry				
P05	18/02/19	J.B.	F.O.S.	J.D.
Issued for Planning				
P04	15/01/19	J.B.	F.O.S.	J.D.
General Revisions				
P03	05/10/18	JTC	F.O.S.	J.D.
Issued for Construction Approval				
P02	23/07/18	B.M.	F.O.S.	J.D.
Issued for Tender				
P01	20/06/18	B.M.	F.O.S.	J.D.
Issued for Review & Comment				
Rev	Date	By	Chkd	Appd

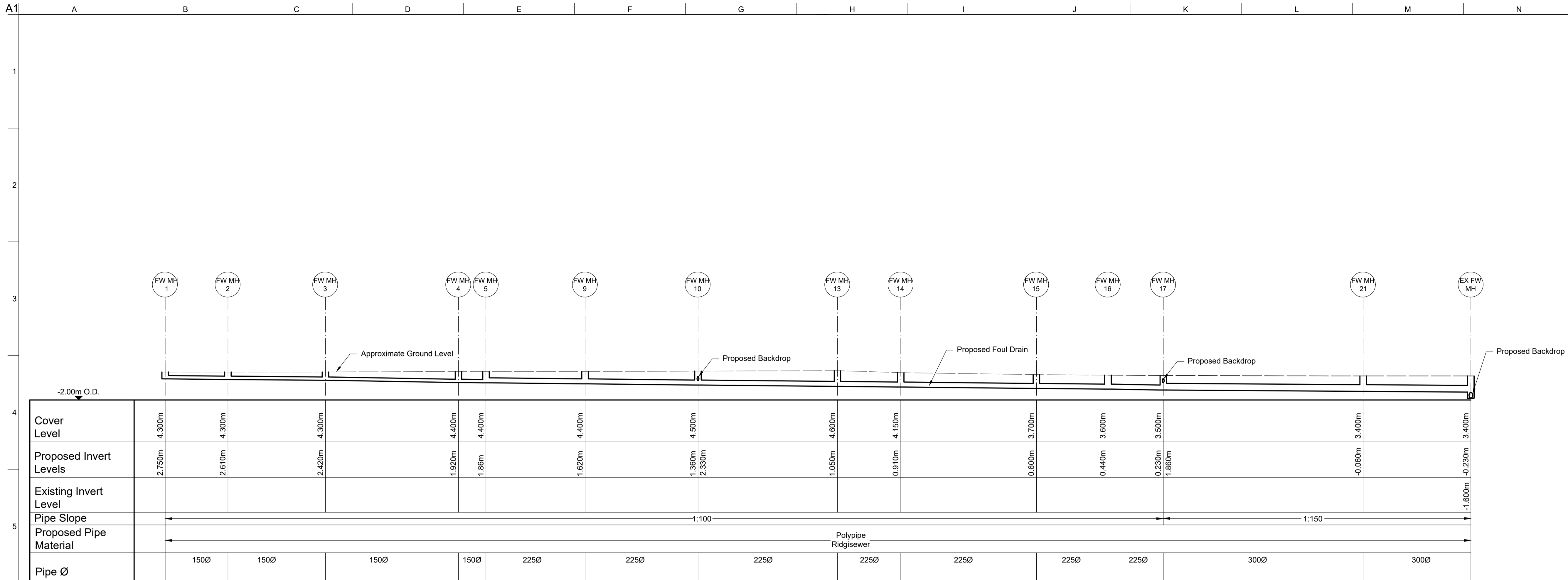
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Client
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 Horgan's Quay

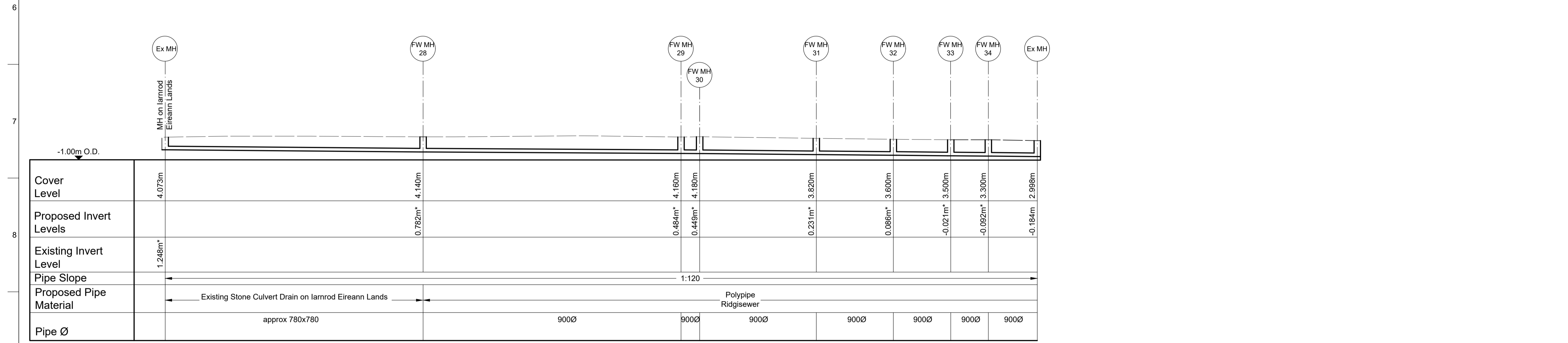
Drawing Title
Proposed Watermain Layout

Scale at A1: 1:500
 Role: Civil
 Suitability: A4 - Approved as Stage Complete
 Anup Job No: **252901-00** Rev: **C02**
 Name: **HQDPR-ARP-ZZ-XX-DR-C-1500**



Proposed Foul Drain Diversion Along Western Drainage Line - Longitudinal Section

SCALE 1:500 (Horz.); 1:100 (Vert.)



Proposed Foul Drain Diversion Along Eastern Drainage Line - Longitudinal Section

SCALE 1:500 (Horz.); 1:100 (Vert.)

- Notes:**
- 1) All foul water pipework shall be Polypipe Polysewer and Rigisever pipework and fittings, or similar approved U.N.O.
 - 2) All pipes and manholes shall be constructed in accordance with Irish Water construction details.
 - 3) All manhole covers shall be Noroc ductile iron covers by EJ Covers with a load classification D400 to IS EN 124.
 - 4) This drawing is to be read in conjunction with all other relevant drawings and specifications.

P02	11/04/19	D.F.	F.O.S.	J.D.
Irish Water Connection Application				
P01	05/10/18	JTC	F.O.S.	J.D.
Issued for Construction Approval				
Rev	Date	By	Chkd	Appd

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Client
HQ **bam**
 HORGAN'S QUAY **property**
CLARENDON

Project Title
HQ
Horgan's Quay

Drawing Title
Proposed Foul Drainage
Longitudinal Sections

Scale at A1	As Shown
Role	Civil
Suitability	S2 - Suitable for Information
Arup Job No	Rev
252901-00	P02
Name	
HQDPR-ARP-ZZ-XX-DR-C-3304	