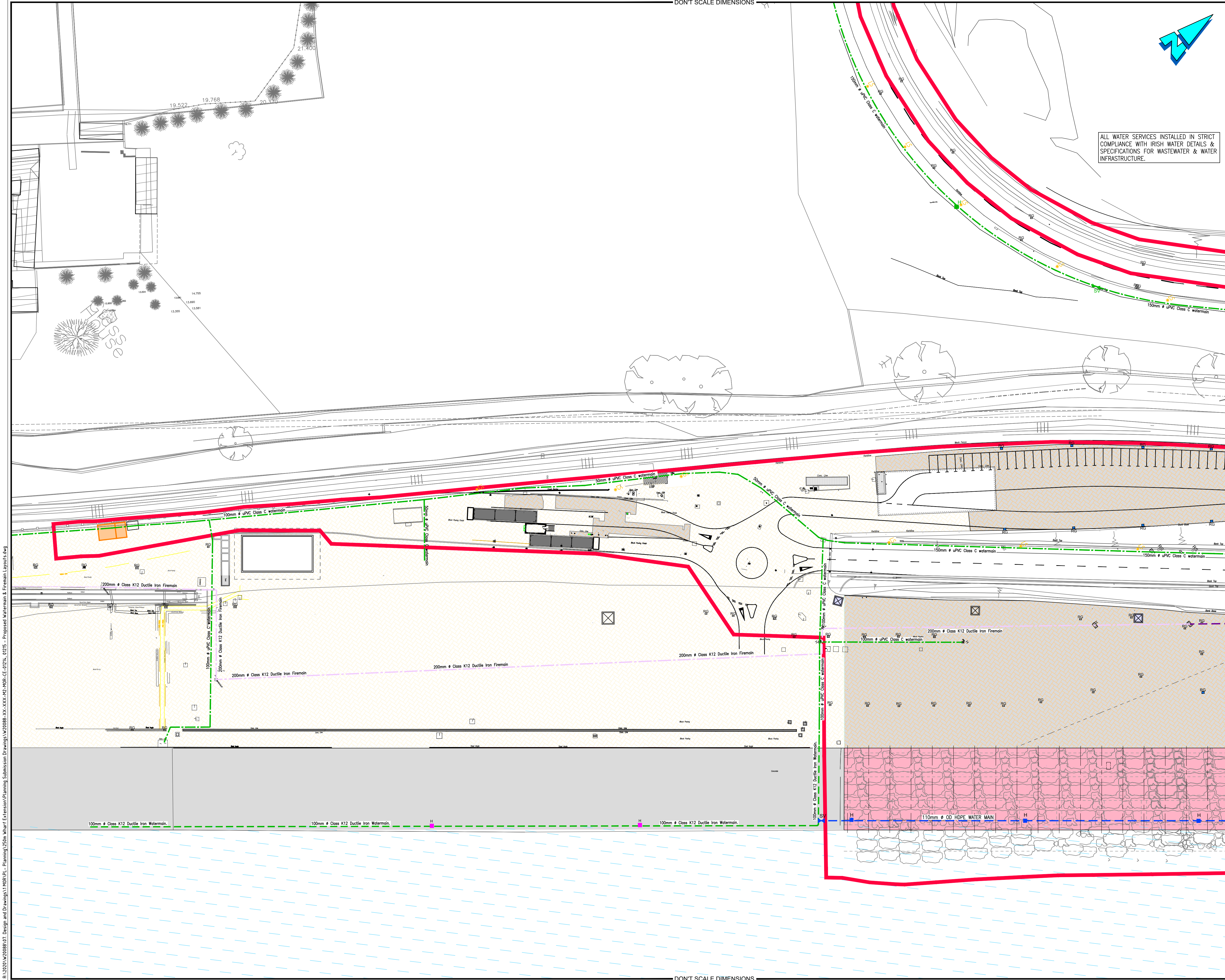




**Health and Safety:**

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, THE SPECIFICATION AND THE SAFETY AND HEALTH PLAN.

**Note:**

- NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR STORED IN ANY RETRIEVAL SYSTEM OF ANY NATURE WITHOUT THE WRITTEN PERMISSION OF MALONE O'REGAN CONSULTING ENGINEERS AS COPYRIGHT HOLDER EXCEPT AS AGREED FOR USE ON THE PROJECT FOR WHICH THE DRAWING WAS ORIGINALLY ISSUED.
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE TO POOLBEG DATUM.
- ALL WORKS TO BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE DOCUMENT IW-CDS-5020-03 AND IRISH WATER STANDARD DETAILS IW-CDS-5020-01.
- ALL WATERMAINS (EXCEPT AS NOTED) TO BE HDPE (PE-100) WITH SDR-17 RATING AND SHALL COMPLY WITH SECTION 3.9 OF IRISH WATER CODE OF PRACTICE.
- CONCRETE ANCHOR BLOCKS AT DEAD ENDS, TEES, BOTH SIDES OF SLUICE VALVES AND AT ALL BENDS OVER 22.5°.
- MIN. COVER TO WATERMAIN TO BE 900mm.
- WATERMAINS TO BE PRESSURE TESTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 4.10.3.
- PRIOR TO COMMISSIONING THE WATERMAIN SHALL BE SWABBED AND DISINFECTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE.
- SEE MANUFACTURER'S DETAILED INSTRUCTIONS PRIOR TO THE INSTALLATION OF WATER METER.
- CHECK THAT FLOW ARROW DIRECTION IS POINTING IN THE SAME DIRECTION AS THE FLOW IN THE WATERMAIN.
- DRAW-WIRES TO BE LEFT IN ALL DUCTS.
- OF SPACER AND S.V. TO BE THE SAME Ø AS METER.
- SEPARATION DISTANCES FROM EXISTING PLANTING SHALL COMPLY WITH IRISH WATER STANDARD DETAIL STD-W-12.
- CONCRETE THRUST BLOCKS AT DEAD ENDS, TEES, BOTH SIDES OF SLUICE VALVES AND AT ALL BENDS OVER 22.5°. THRUST BLOCKS TO BE PROVIDED IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-W-28 (12-15 BAR TEST PRESSURE).
- NO HYDRANTS OR SLUICE VALVES ARE TO BE LOCATED WITHIN TRAFFICKED AREAS.
- SEPARATION DISTANCES FROM OTHER SERVICES, BOUNDARY WALLS, TREES, ETC. TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-11, STD-W-12, STD-W-12A.

**LEGEND:**

PROPOSED PLANNING OUTLINE  
DENOTED THUS:

EXISTING uPVC WATERMAIN  
DENOTED THUS:

EXISTING DUCTILE IRON WATERMAIN  
DENOTED THUS:

EXISTING DUCTILE IRON FIREMAIN  
DENOTED THUS:

PROPOSED HDPE FIREMAIN  
DENOTED THUS:

PROPOSED HDPE WATERMAIN  
DENOTED THUS:

PROPOSED WATERMAIN SLUICE VALVE  
DENOTED THUS:

PROPOSED WATERMAIN HYDRANT  
DENOTED THUS:

PROPOSED WATER METER  
DENOTED THUS:

PROPOSED FIREMAIN SLUICE VALVE  
DENOTED THUS:

PROPOSED FIREMAIN HYDRANT  
DENOTED THUS:

PROPOSED HYDRANT COVERAGE  
DENOTED THUS:

| 0                                                                                                                                                                                                                                                                                                                                                                                                                      | PLANNING ISSUE | 05.09.2025     | JD                              | ES          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|---------------------------------|-------------|
| Rev.                                                                                                                                                                                                                                                                                                                                                                                                                   | Description    | Date           | Drawn                           | Chkd        |
| Status: P3 - ISSUED FOR PLANNING                                                                                                                                                                                                                                                                                                                                                                                       |                |                |                                 |             |
| <div><b>MALONE O'REGAN</b><br/>CONSULTING ENGINEERS</div> <div>3-4 Canada Street<br/>Waterford<br/>Co. Waterford.<br/>X91 V52K<br/>Tel: +353 51 876 855<br/>Email: waterford@mor.ie<br/>Web: www.maloneoregan.com</div> <div>Offices also in:<br/>DUBLIN : Tel: +353 1 260 2655 Email: dublin@mor.ie<br/>GALWAY: Tel: +353 91 531 069 Email: galway@mor.ie<br/>LONDON: Tel: +44 208 5281685 Email: london@mor.ie</div> |                |                |                                 |             |
| Client: <b>PORT OF WATERFORD COMPANY</b>                                                                                                                                                                                                                                                                                                                                                                               |                |                |                                 |             |
| Job: PROPOSED OFFSHORE RENEWABLE ENERGY<br>CAPABLE TERMINAL ON A 250m WHARF EXTENSION &<br>ANCILLARY OPERATIONAL SUPPORT INFRASTRUCTURE                                                                                                                                                                                                                                                                                |                |                |                                 |             |
| Drawing: PROPOSED WATERMAIN & FIREMAIN LAYOUT<br>SHEET 1                                                                                                                                                                                                                                                                                                                                                               |                |                |                                 |             |
| Job No<br>W20088                                                                                                                                                                                                                                                                                                                                                                                                       | Revision<br>0  | Approver<br>ES | Scale<br>A1 1:500<br>A3 1:1,000 | Sheet<br>A1 |
| Drg No<br>W20088-XX-XXX-DR-MOR-CE-01214                                                                                                                                                                                                                                                                                                                                                                                |                |                |                                 |             |

R:\2020\W20088\07\_Design and Drawings\1 MOR\PL - Planning\250m Wharf Extension Submission Drawings\W20088-XX-XXX-DR-MOR-CE-01214\_01215 - Proposed Watermain & Firemain Layouts.dwg