

Steep & Overgrown

VERY STEEP AND OVERGROWN AREA BEYOND THIS POINT.



CONNECTION TO EXISTING WATERMAIN TO BE AGREED WITH IRISH WATER PRIOR TO WORKS COMMENCING EXACT LOCATION OF EXISTING WATERMAIN TO BE DETERMINED ONSITE.

CONNECTION TO EXISTING WATERMAIN TO BE AGREED WITH IRISH WATER PRIOR TO WORKS COMMENCING EXACT LOCATION OF EXISTING WATERMAIN TO BE DETERMINED ONSITE.

LEGEND	
PROPOSED WATERMAIN	100mm HDPE CLASS C WATERMAIN
EXISTING WATERMAIN	
SLUICE VALVE	SV
HYDRANT	Hyd
SCOUR VALVE	ScV
AIR VALVE	AV
BULK METER	M
WATER BOUNDARY BOX	
FINISHED FLOOR LEVELS	FFL 83.950
FINISHED ROAD LEVELS	+ 84.500
SITE BOUNDARY	

- NOTES**
- WATER INFRASTRUCTURE**
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER DOCUMENTS IW-CDS-5020-01 (STANDARD DETAILS) & IW-CDS-5020-03 (CODE OF PRACTICE).
  - WATER BOUNDARY BOXES TO BE IN COMPLIANCE WITH THE IW CODE OF PRACTICE AND STANDARD DETAILS.
  - PIPE MATERIALS SHALL BE IN COMPLIANCE WITH SECTION 3.9 OF THE CODE OF PRACTICE.
  - COMPLIANCE WITH STANDARD DETAILS DRAWINGS STD-W-11, STD-W-12 & STD-W-12A SHALL BE ADHERED TO REGARDING SEPARATION DISTANCES FROM OTHER SERVICES, BOUNDARY WALLS & TREES.
  - SCOUR CHAMBER TO BE CONSTRUCTED AS PER IRISH WATER STANDARD DETAIL DRAWING STD-W-30.
  - BYPASS FLOW METER TO BE CONSTRUCTED AS PER IRISH WATER STANDARD DETAIL DRAWING STD-W-26F.
  - CONFIRMATION BY A CHARTERED ENGINEER AND TEST RESULT CERTIFICATES & REPORTS INDICATING THAT THE WATER INFRASTRUCTURE HAS UNDERGONE APPROPRIATE ON-SITE TESTING, OFF-SITE TESTING AND COMMISSIONING. THE APPROPRIATE SITE TESTS FOR WATER COLLECTION INFRASTRUCTURE WOULD BE AS FOLLOWS:
    - IGN TEST REPORTS - WATERMAIN PRESSURE TESTING
    - SERVICE CONNECTION TEST RESULTS
    - ELECTRO/BUTT FUSION WELD TEST RESULT REPORTS (DESTRUCTIVE TESTING)
    - PRINTOUT OF JOINT DETAILS, WITH A GPS LOCATION OF EACH ELECTROFUSION & BUTT FUSION JOINT
    - TESTING COMPLETION RESULTS FOR BOOSTER PUMP PLANT (IF APPROPRIATE)
    - SWABBS & FLUSHING RECORDS
    - DISINFECTION TEST REPORTS (ACCREDITED LABORATORY REPORT)
    - WATER QUALITY SAMPLING RESULTS (ACCREDITED LABORATORY REPORT)

- AS CONSTRUCTED DRAWINGS:
- CONSTRUCTED RECORD DRAWINGS (IN HARD COPY AND DIGITAL FORMAT) SHALL SHOW THE LOCATION, LAYOUT PLANS, LONGITUDINAL SECTIONS AND DETAILS OF THE WORKS AND THE DEVELOPMENT IN FULL PLAN SCALES SHOULD BE IN COMMON USE, 1:250, 1:500, 1:1000 OR 1:2500 AS APPROPRIATE. DRAWINGS SHOULD BE PREPARED USING AN ELECTRONIC SYSTEM AND SUBMITTED IN STANDARD 'CAD COMPATIBLE (DWG/DXF)' FILE FORMAT. THESE DRAWINGS SHALL CONTAIN THE FOLLOWING INFORMATION:
    - LOCATIONS OF ALL VALVES, HYDRANTS, SCOUR VALVES OR WASHOUT HYDRANTS, METERS, DUCTS, TAPPING LOCATIONS, WATER MAIN AND SERVICE PIPES, BOUNDARY BOXES, ETC. COMPLETE WITH LEGENDS TO IRISH WATER'S REQUIREMENTS.
    - DETAILED PIPE MATERIAL TYPES, SIZES, CONNECTION DETAILED PLANS OF PIPE BRANCHES, SHOWING VALVE LOCATIONS, ETC.
    - LOCATIONS OF ASSETS ARE TO BE TO +/- 100MM ACCURACY IN THE HORIZONTAL PLANE TO THE CENTRE OF THE ASSET, WITH DIMENSIONS RELATING TO FIXED IRISH NATIONAL GRID (ING) CO-ORDINATES.
    - COVER LEVEL FOR WATER MAIN FITTINGS AND INTERMITTENT WATER MAIN INVERT LEVELS RELATING TO FIXED ORDNANCE SURVEY DATUM (MALIN HEAD) TO AN ACCURACY OF +/- 20MM.
    - LONGITUDINAL SECTIONS, TO AN EXAGGERATED VERTICAL SCALE, (SUCH AS 1:1000 HORIZONTAL AND 1:100 VERTICAL) SHOWING INSTALLED LEVELS, COMPLETED GROUND LEVELS, INVERT LEVELS, PIPE SIZES, BEDDING, HAUNCH AND SURROUND DETAILS, BACKFILL DETAILS, TOGETHER WITH CHAMBER LOCATIONS, CHAINAGES, GRADIENTS, PIPE MATERIALS, ETC. ALL CHAMBERS FOR WATER SUPPLY FITTINGS SHALL BE IDENTIFIED AND PROVIDED WITH LOCATION CO-ORDINATES TO IRISH NATIONAL GRID (ING) DETAILS OF ANY SERVICES AND STRUCTURES ON THE SITE, ESPECIALLY THOSE IN CLOSE PROXIMITY TO THE WORKS INCLUDING OFFSET MEASUREMENT TO THE WATER SUPPLY SYSTEM.
    - DWELLING AND BUILDING NUMBERS.
    - CONSTRUCTION DETAILS OF PUMP STATION AS WELL AS MECHANICAL, ELECTRICAL AND INSTRUMENTATION EQUIPMENT DETAILS.
    - DETAILS OF SERVICES AND STRUCTURES ON THE SITE, EXISTING AND PROPOSED, ESPECIALLY THOSE IN CLOSE PROXIMITY TO THE WORKS INCLUDING OFFSETS MEASUREMENTS TO THE WORKS.

T1	25/08/2023	ISSUED FOR TENDER	JOR
REV.	DATE	DESCRIPTION	APPROVED

COPYRIGHT RESERVED- THIS DRAWING IS NOT TO BE USED FOR A PURPOSE OTHER THAN THAT FOR WHICH IT HAS BEEN ISSUED BY ALAN TRAYNOR CONSULTING ENGINEERS. NOR IS IT TO BE COPIED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN CONSENT.

**Alan Traynor**  
Consulting Engineers Ltd

Unit 4, Betherbet Business Park, Creeny, Betherbet, Co. Cavan HA44Y4  
TEL: (+353) 49922234

2nd Floor, 67-70 Meath St, Dublin 8 D08RY93  
TEL: (+353) 19497881  
Email: info@alantaynor.com Website: www.alantaynor.com

**ISO 9001**  
CERTIFICATION  
EUROPE

CLIENT <b>CAVAN COUNTY COUNCIL</b>			
PROJECT TITLE <b>PROPOSED RESIDENTIAL DEVELOPMENT AT PORTALIFFE, KILLESHANDRA Co. CAVAN</b>			
DRAWING TITLE <b>SITE SERVICES LAYOUT WATERMAIN</b>			
SCALE <b>1:250</b>	DRAWN JOHN O'REILLY DATE MAY 2023	CHECKED LIAM MCELGUNN DATE MAY 2023	APPROVED ALAN TRAYNOR DATE MAY 2023
DRAWING No. <b>23-138-101</b>			REV. <b>T1</b>