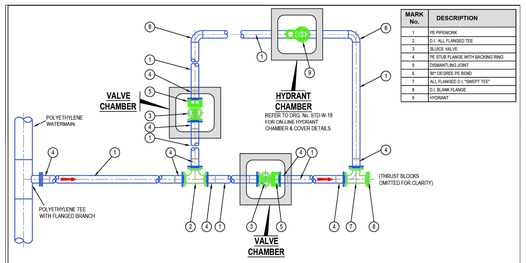
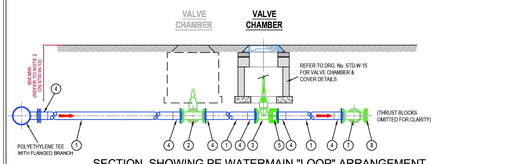



| MARK No. | DESCRIPTION |
|---|---|
| 1 | PE PIPEWORK |
| 2 | D.I. ALL FLANGED TEE |
| 3 | SLUICE VALVE |
| 4 | PE STUB FLANGE WITH BACKING RING |
| 5 | DISMANTLING JOINT |
| 6 | 90° DEGREE PE BEND |
| 7 | ALL FLANGED D.I. "SWEPT TEE" |
| 8 | D.I. BLANK FLANGE |
| 9 | HYDRANT |

PLAN SHOWING PE WATERMAIN "LOOP" ARRANGEMENT




SECTION SHOWING PE WATERMAIN "LOOP" ARRANGEMENT

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. STRUCTURAL REINFORCEMENT AND DESIGN DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO UISCE ÉIREANN FOR REVIEW.
3. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 AND BS 5834 COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY UISCE ÉIREANN.
4. THE HYDRANT SHALL BE DOUBLE FLANGED DRILLED TO PN 16. THEY SHALL COMPLY WITH IS EN 14339. IS EN 1074 PART 6 AND BS 750: 2012. THE HYDRANT SHALL INCORPORATE A SCREW DOWN GATE VALVE, UNDERGROUND "QUIDE TO HEAD" TYPE WITH A FALSE SPINDLE CAP. THE OUTLET SHALL BE IN ACCORDANCE WITH ITEM 5 BELOW.
5. FIRE HYDRANT OUTLET TYPE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE OFFICER FOR THE AREA AND SHALL BE AGREED PRIOR TO THE COMMENCEMENT OF WORKS.
6. ALL HYDRANTS SHALL BE CLOCKWISE CLOSING.
7. HYDRANT CHAMBER & SCOUR VALVE CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED. SUBJECT TO REVIEW FROM UISCE ÉIREANN. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & DEAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE, GRADE C30/37, WITH A MINIMUM THICKNESS OF 150mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED, SUBJECT TO UISCE ÉIREANN REVIEW, & COMPLIANCE WITH IS EN 1917 AND IS 470.
8. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL.
9. 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GRASS AREAS.
10. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
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13. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO AGREEMENT WITH UISCE ÉIREANN.
14. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

CONNECTIONS AND DEVELOPER SERVICES

Uisce Éireann Irish Water

| No. | Date | Drn | Chk | Description | App |
|---|---|---|---|---|---|
| 1 | 09/25 | RH | MBC | Revised Note 8 | OP |
| 0 | 07/20 | RH | TOC | Initial Issue | MCD |

STANDARD DETAILS - WATER

TITLE: WATERMAIN LOOP DETAIL POLYETHYLENE OPTION

SCALE: NOT TO SCALE | DATE: SEPT. 2019

DRAWING No.: STD-W- 39 | REV: 1

| DIAMETER OF WATERMAIN (mm) | DIAMETER OF SCOUR (mm) |
|---|---|
| NOT EXCEEDING 75 | 50 |
| 100 TO 200 | 75 |
| 250 TO 350 | 100 |

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. STRUCTURAL REINFORCEMENT AND DESIGN DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO UISCE ÉIREANN FOR REVIEW.
3. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 AND BS 5834 COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY UISCE ÉIREANN.
4. THE HYDRANT SHALL BE DOUBLE FLANGED DRILLED TO PN 16. THEY SHALL COMPLY WITH IS EN 14339. IS EN 1074 PART 6 AND BS 750: 2012. THE HYDRANT SHALL INCORPORATE A SCREW DOWN GATE VALVE, UNDERGROUND "QUIDE TO HEAD" TYPE WITH A FALSE SPINDLE CAP. THE OUTLET SHALL BE IN ACCORDANCE WITH ITEM 5 BELOW.
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8. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL.
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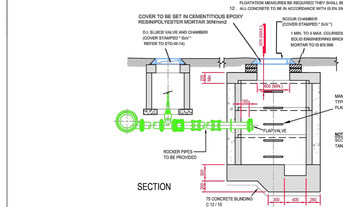
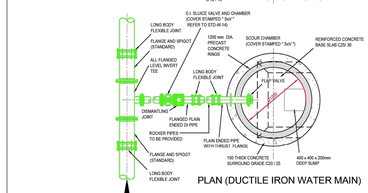
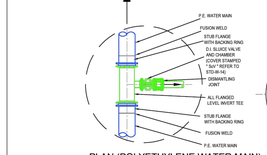
14. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.



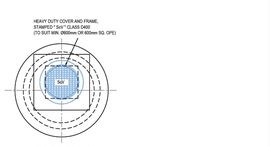

SECTION




PLAN (DUCTILE IRON WATER MAIN)




PLAN (POLYETHYLENE WATER MAIN)




ROOF PLAN

CONNECTIONS AND DEVELOPER SERVICES

Uisce Éireann Irish Water

| No. | Date | Drn | Chk | Description | App |
|---|---|---|---|---|---|
| 5 | 09/25 | RH | JJ | Hashed/ Outlet b Seam Removed | B |
| 4 | 07/25 | RH | TOC | Updated notes | WCD |
| 3 | 11/11 | MC | TOC | Updated notes | WCD |
| 2 | 06/10 | MC | TOC | Added steps & revised access cover & gpe | WCD |
| 1 | 04/10 | MC | TOC | Added T No. Beside pcn | WCD |
| 0 | 09/10 | MC | TOC | Initial Issue | SL |

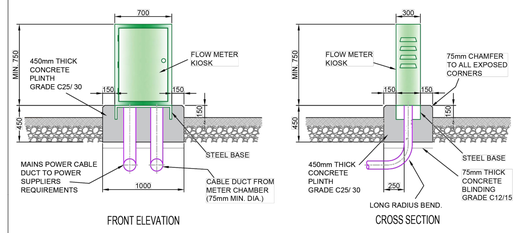
STANDARD DETAILS - WATER

TITLE: SCOUR CHAMBER ARRANGEMENTS

SCALE: NOT TO SCALE | DATE: SEPT. 2015

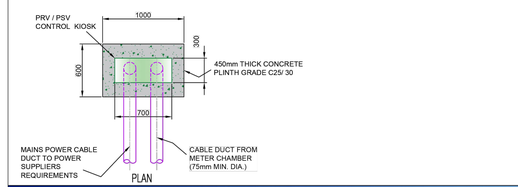
DRAWING No.: STD-W- 30 | REV: 5

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. THE KIOSK SHALL BE LOCATED OFF THE FOOTPATH SO AS NOT TO IMPEDE PEDESTRIANS AND POSITIONED SO AS TO FACILITATE SAFE ACCESS FOR MAINTENANCE PERSONNEL.
3. KIOSK TO BE CONSTRUCTED FROM THERMOSETTING U.V. & WEATHER RESISTANT PLASTIC POWDER COATED & HOT DIPPED GALVANISED STEEL (MINIMUM 2mm THICKNESS) IN ACCORDANCE WITH BS EN 1461: STAINLESS STEEL MAY BE USED AS AN ALTERNATIVE. KIOSK MATERIAL, PARTICULARLY IN SEVERE ENVIRONMENTS, SUBJECT TO AGREEMENT WITH UISCE ÉIREANN.
4. KIOSK TO HAVE SINGLE OR DOUBLE STEELGUARD DOORS WITH MULTIPLE LOCKS TO LPS 1175 SR2 OR EN 1627 MINIMUM DOUBLE LOCKS WITH BOLTS THAT ENGAGE INTO THE SILL & HEADER AS WELL AS BETWEEN THE TWO LEAVES OR LEAF & FRAME. LEADING EDGE OF LEAVES TO HAVE EITHER REBATED EDGES OR FITTED WITH ASTRAGALS.
5. COLOUR TO BE HOLLY GREEN BS 4800 14 C39. INTERIOR FINISH TO BE WHITE UNLESS APPROVED BY UISCE ÉIREANN.
6. THE QUALITY OF KIOSK CONSTRUCTION SHALL ENSURE THAT THE FOLLOWING IS ACHIEVED:
   (a) A THERMAL TRANSMITTANCE OF 1.5W PER m²K
   (b) AIR PERMEABILITY TO ENSURE OR EXCEED THE STABILITY, INTEGRITY AND INSULATION EQUIVALENT TO CLASS 2 OF BS 476, WHEN TESTED IN ACCORDANCE WITH BS 476 FOR A PERIOD EXCEEDING 30 MINUTES.
   (c) AN IP RATING OF IP55 OR EQUIVALENT.
7. KIOSK TO BE BOLTED TO THE PLINTH THROUGH A BOTTOM FLANGE WITH GALVANISED MILD STEEL OR STAINLESS STEEL ANCHOR BOLTS.
8. THE BOTTOM FLANGE SHALL BE SEATED ON A NEOPRENE GASKET AND SEALED WITH MASTIC.
9. REAR WALL SHALL BE REINFORCED WITH STAINLESS STEEL SECTIONS TO WHICH A MARINE PLY WOOD - 18mm THICK BOARD IS FIXED.
10. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE ULTIMATE SIZING OF THE KIOSK TO ENSURE ADEQUATE SPACE REQUIREMENTS - MINIMUM DIMENSIONS SHOWN BELOW.
11. TELEMETRY DUCTING TO BE IN ACCORDANCE WITH BS EN 50085-1:2005 AND ENATS 12-24.
12. ELECTRICAL REQUIREMENTS TO BE IN ACCORDANCE WITH ESB SPECIFICATION.
13. THE ROOF OF THE KIOSK SHALL BE REMOVABLE (BOLTS) TO FACILITATE BACKBOARD REMOVAL.
14. ALL EXPOSED PIPEWORK TO BE ADEQUATELY INSULATED WITH PIPE LAGGING.
15. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.




FRONT ELEVATION

CROSS SECTION




PLAN

CONNECTIONS AND DEVELOPER SERVICES

Uisce Éireann Irish Water

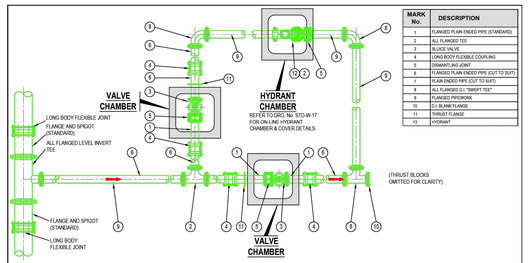
| No. | Date | Drn | Chk | Description | App |
|---|---|---|---|---|---|
| 4 | 09/25 | RH | MBC | Minor Dimensional Edits | OP |
| 3 | 07/20 | RH | TOC | Notes and kiosk revised | WCD |
| 2 | 11/11 | MC | TOC | Note 10 revised | WCD |
| 1 | 09/10 | MC | TOC | Added Note 4 | WCD |
| 0 | 09/10 | MC | TOC | Initial Issue | SL |

STANDARD DETAILS - WATER

TITLE: FLOW METER KIOSK

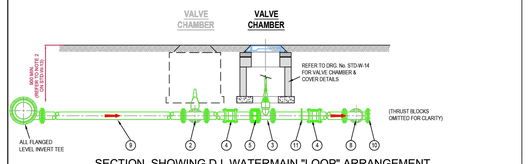
SCALE: NOT TO SCALE | DATE: SEPT. 2015

DRAWING No.: STD-W- 36 | REV: 4




| MARK No. | DESCRIPTION |
|---|---|
| 1 | FLANGED PLAIN ENDED PIPE (STANDARD) |
| 2 | ALL FLANGED TEE |
| 3 | SLUICE VALVE |
| 4 | LONG BODY FLEXIBLE COUPLING |
| 5 | DISMANTLING JOINT |
| 6 | FLANGED PLAIN ENDED PIPE (CUT TO SUIT) |
| 7 | PLAIN ENDED PIPE (CUT TO SUIT) |
| 8 | ALL FLANGED D.I. "SWEPT TEE" |
| 9 | FLANGED PIPEWORK |
| 10 | D.I. BLANK FLANGE |
| 11 | THRUST FLANGE |
| 12 | HYDRANT |

PLAN SHOWING D.I. WATERMAIN "LOOP" ARRANGEMENT




SECTION SHOWING D.I. WATERMAIN "LOOP" ARRANGEMENT

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CONNECTIONS AND DEVELOPER SERVICES

Uisce Éireann Irish Water

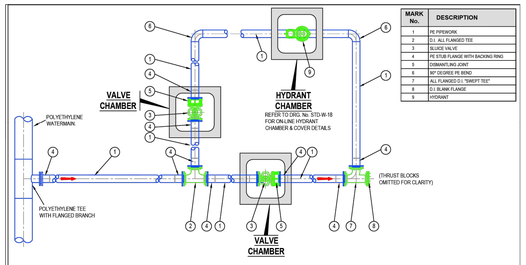
| No. | Date | Drn | Chk | Description | App |
|---|---|---|---|---|---|
| 1 | 09/25 | RH | MBC | Revised Note 8 | OP |
| 0 | 07/20 | RH | TOC | Initial Issue | WCD |

STANDARD DETAILS - WATER

TITLE: WATERMAIN LOOP DETAIL DUCTILE IRON OPTION

SCALE: NOT TO SCALE | DATE: SEPT. 2019

DRAWING No.: STD-W- 38 | REV: 1




| MARK No. | DESCRIPTION |
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| 4 | PE STUB FLANGE WITH BACKING RING |
| 5 | DISMANTLING JOINT |
| 6 | 90° DEGREE PE BEND |
| 7 | ALL FLANGED D.I. "SWEPT TEE" |
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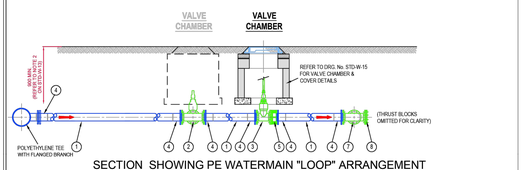
PLAN SHOWING PE WATERMAIN "LOOP" ARRANGEMENT

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CONNECTIONS AND DEVELOPER SERVICES

Uisce Éireann Irish Water

| No. | Date | Drn | Chk | Description | App |
|---|---|---|---|---|---|
| 1 | 09/25 | RH | MBC | Revised Note 8 | OP |
| 0 | 07/20 | RH | TOC | Initial Issue | WCD |

STANDARD DETAILS - WATER

TITLE: WATERMAIN LOOP DETAIL POLYETHYLENE OPTION

SCALE: NOT TO SCALE | DATE: SEPT. 2019

DRAWING No.: STD-W- 39 | REV: 1

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Consultants to be informed immediately of any discrepancies before work proceeds.
COLOUR DRAWING

BUILDING INFORMATION MODELLING (BIM) I.S. EN ISO 19650-2:2018 NSAI Certified

| Rev | Amendment | By | Date | Rev | Amendment | By | Date |
|---|---|---|---|---|---|---|---|
| P01 | ISSUED FOR REVIEW AND COMMENT | GS | 18.07.2025 | | | | |
| P02 | ISSUED FOR S 32B MEETING | GS | 26/08/2025 | | | | |
| C01 | ISSUED FOR PLANNING | GS | 25/03/2026 | | | | |

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t +353 21 462 4000 | w punchconsulting.com

| | | | |
|---|---|---|---|
| Project: POPE'S HILL RESIDENTIAL DEVELOP, POPE'S HILL, CO.CORK | | | |
| Title: Watermain Construction Details Sheet 4 | | | |
| Drawn: A Kelleher | Date drawn: 15.07.2025 | Technician Check: L Lonergan | Engineer Check: G Souza / Approved: T Horan |
| Project No.: 244132 | Model Ref.: 244132-PUNCH-XX-XX-M2-C-0505 | Drawing Status: A0 (Planning) | |
| Scale @ A1: NTS | Document No.: 244132-PUNCH-XX-XX-DR-C-0508 | | Revision No.: C01 |