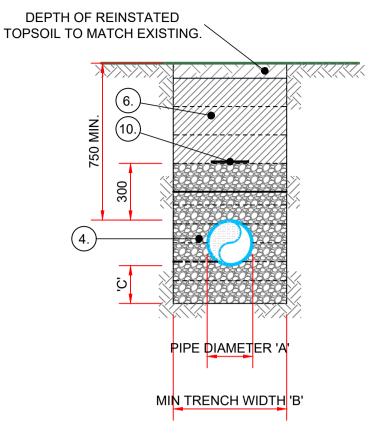


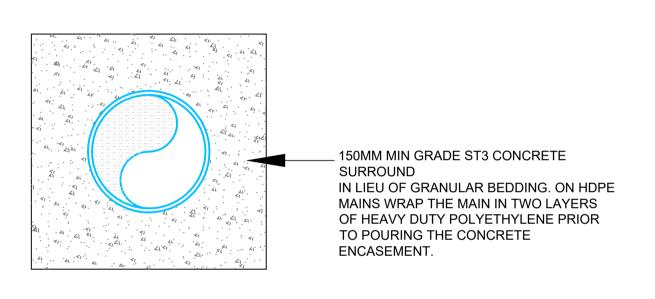
UNDER ROADS / HARDSTANDINGS / FOOTPATHS **SCALE 1:20**

WIDTH OF TRENCH SIZE 'A' (mm) 'B' (mm) SEE NOTE 11. _< 80 100 500 150 600 200 600 750 250 300 750 350 750 400 900 450 900

PIPE	DEPTH OF BEDDING
SIZE 'A' (mm)	'C' (mm)
< 200	150
> 500	200



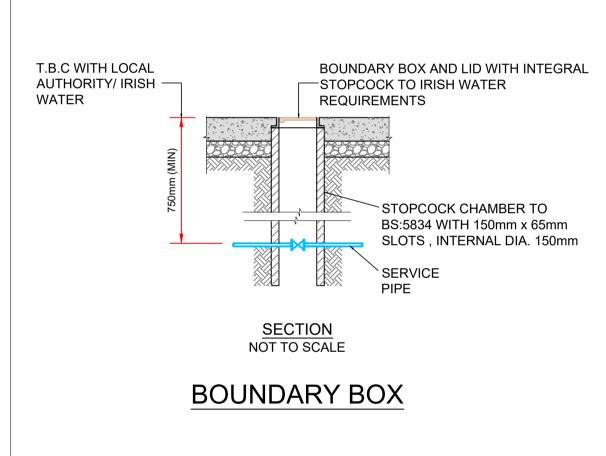
UNDER LANDSCAPED AREAS **SCALE 1:20**

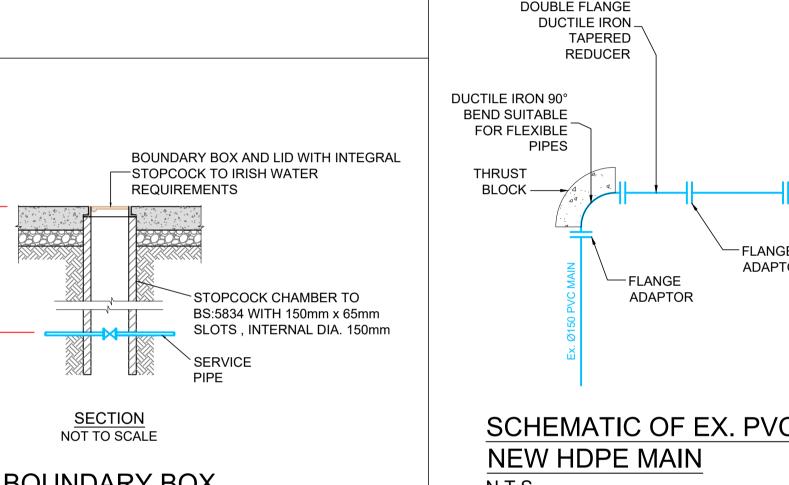


CONCRETE ENCASEMENT DETAIL WHERE MIN. **COVER NOT PROVIDED**

SCALE 1:10

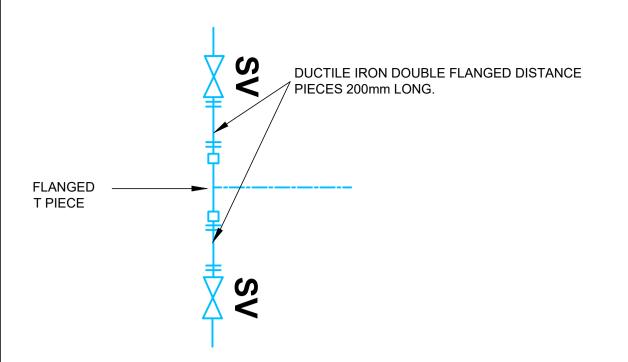
PROVIDED WHERE COVER TO PIPES: < 1.2m IN ROADS OR PIPES UNDER BUILDINGS: <0.9m IN GARDENS/GRASSED AREAS





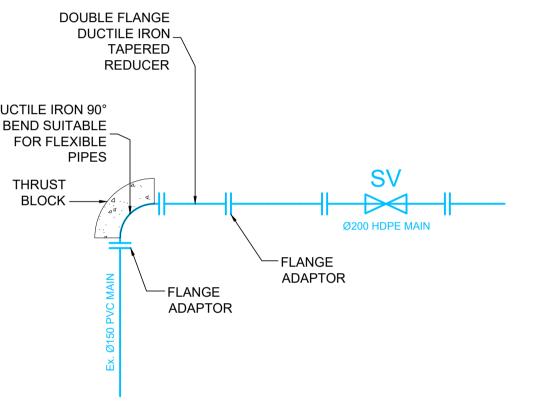
IRISH WATER BOUNDARY BOX TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-W-03. MINIMUM SIZE AND SPECIFICATION OF SERVICE PIPE IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS. 100/150Ø WATERMAIN

TYPICAL WATER CONNECTION TO INDIVIDUAL UNITS **SCALE 1:200**



SCHEMATIC OF PROPOSED MAIN CONNECTION TO EXISTING WATERMAIN

N.T.S.



SCHEMATIC OF EX. PVC MAIN CONNECTION TO

N.T.S.

NOTES:

- 1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
- 2. ALL DRAWINGS TO BE CHECKED BY THE
- CONTRACTOR ON SITE
- 3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES
- BEFORE ANY WORK COMMENCES THE CONTRACTOR SHALL UNDERTAKE A
- THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY
- WORK COMMENCES ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

P1 12.05.2021 Issue for Planning Description By Chkd. Date

Galway County Council

Housing Development Moycullen, Co Galway

THRUST AND SUPPORT BLOCKS

40. REFER TO IRISH WATER STD-W-28 FOR CONSTRUCTION DETAILS.

OTHER
41. REFER TO IRISH WATER STD-W-29 TO 37 FOR DUCT CHAMBER, SCOUR CHAMBER AND HEAD WALL ARRANGEMENT, DUCT/STREAM/BRIDGE CROSSINGS, SECURITY GATES AND FENCING, PIPE REPAIRS, TELEMETRY AND KIOSK AND LAMP BOLLARD STANDARD CONSTRUCTION DETAILS.

METER CHAMBERS

39. REFER TO IRISH WATER STD-W-26 FOR CONSTRUCTION DETAILS. METER SPECIFICATION TO

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND ENGINEERS

2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE. ENGINEER TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE

3. THE MINIMUM DEPTH OF COVER FROM THE FINISHED GROUND LEVEL TO THE EXTERNAL CROWN

4. PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01 GRANULAR MATERIAL SHALL BE

5. CLAUSE 804 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION

6. SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN FIELD AREAS ABOVE GRANULAR PIPE

7. IN SOFT GROUND CONDITIONS (CBR<5) THE MATERIAL SHOULD BE EXCAVATED OUT AND

DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 804 MATERIAL

IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS

SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE WRAPPING.

ALTERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMENTS INCLUDING PILING ETC. MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGEMENTS SHALL

DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 804 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR

8. PIPES SHALL NOT BE SUPPORTED ON STONES OR ROCKS, OR ANY HARD OBJECT AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL

9. SHOULD MINIMUM COVER NOT BE ACHIEVABLE, CONCRETE GRADE C8/10 SHALL BE USED AS

). MARKER TAPE TO BE 400mm WIDE BLUE POLYETHYLENE MATERIAL IN ACCORDANCE WITH EN 12163, PLASTIC PIPES SHALL HAVE WARNING TAPE INCORPORATED A REINFORCED BAND BRACING WIRE. SERVICE PIPES SHALL HAVE 200mm WIDE MESH TAPE. MARKER TAPE TO BE LAID

11. TRENCH WIDTHS FOR PIPE SIZES </= 80mm MAY BE <500MM, SUBJECT TO CONSIDERATION BEING

GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS.

13. SERVICE PIPES SHALL HAVE A MINIMUM 12mm INTERNAL DIAMETER & SHALL BE ONE OF THE

(c) POLYETHYLENE PIPE TYPE 50 COMPLYING WITH I.S. 135 FITTINGS & SPECIALS SHALL BE

STOPCOCKS

14. STOPCOCKS COMPLYING WITH B.S. 1010 SHALL BE PROVIDED ON EACH SERVICE PIPE.

SLUICE VALVES
15. SLUICE VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS

16. SLUICE VALVES SHALL BE DOUBLE FLANGED WITH DUCTILE IRON RESILIENT SEAL GATE VALVES,

18. VALVE CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY

19. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE

20. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL

21. THRUST BLOCKS (NOT SHOWN ON DRAWING) TO BE PROVIDED AS PER STANDARD DRAWING

25. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO I.S. 261 AND B.S. 5834. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS

26. HYDRANTS SHALL BE DOUBLE FLANGED DRILLED TO PIN 16. THEY SHALL COMPLY WITH BS 750: 2012. THE HYDRANT SHALL INCORPORATE A SCREW DOWN GATE VALVE, UNDERGROUND "GUIDE

28. HYDRANT CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY

29. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150MM COMPACTED CLAUSE

30. 200MM ALL AROUND, 100MM DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL

31. 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.

32. ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

34. REFER TO IRISH WATER STD-W-16 TO 19 FOR CONSTRUCTION DETAILS.

AIR VALVES
35. REFER TO IRISH WATER STD-W-20 TO 23 FOR CONSTRUCTION DETAILS.

PRESSURE REDUCING/SUSTAINING VALVE CHAMBER
37. REFER TO IRISH WATER STD-W-24 FOR CONSTRUCTION DETAILS.

BOOSTER PUMP STATION ARRANGEMENT
38. REFER TO IRISH WATER STD-W-25 FOR CONSTRUCTION DETAILS.

INDICATOR PLATES & MARKER POSTS

36. REFER TO IRISH WATER STD-W-27 FOR DETAILS OF ALL MARKER POSTS/PLATES.

BLOCK WORK, ALTERNATIVELY, PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE

TO HEAD" TYPE WITH SCREW DOWN CONNECTION OUTLET AND FALSE SPINDLE CAP AND IRON

STD-W-28 AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.

TO I.S. 261 AND B.S. 5834. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC

SUITABLE FOR USE IN WATER MAINS. THEY SHALL COMPLY WITH THE REQUIREMENTS OF I.S. EN

BLOCK WORK. ALTERNATIVELY, PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE

STOPCOCKS SHALL BE LOCATED IN FOOTPATH FRONTING THE PROPERTY BEING SERVED. THE

BE SUBJECT TO ASSESSMENT BY IRISH WATER BEFORE ADVANCING WITH THE WORK.

FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE WATER MAIN IS LOCATED

IN ROADS, FOOTPATHS OR WHEN THE NEAREST PART OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY. CLAUSE 804 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE

COVER SHOULD SHOULD NOT EXCEED 1200mm WHERE PRACTICABLE.

NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS.

MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.

12. WATERMAIN PIPES SHALL BE SUBJECT TO IRISH WATER REQUIREMENTS: (a) DUCTILE IRON PIPES AND FITTINGS COMPLYING WITH I.S. EN 545.

(a) ANNEALED COPPER COMPLYING WITH B.S. 2871 PART 1,TABLE Y. (b) POLYETHYLENE PIPE TYPE 32 COMPLYING WITH I.S. 134 HEAVY GAUGE.

DEPTH OF THE STOPCOCK SPINDLE SHALL NOT EXCEED 200mm.

CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.

22. ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

24. REFER TO IRISH WATER STD-W-14 AND 15 FOR CONSTRUCTION DETAILS.

1074 AND THEY SHALL HAVE THE APPROPRIATE CE MARKING.

17. ALL SLUICE VALVES SHALL BE ANTI-CLOCKWISE CLOSING.

USED, SUBJECT TO APPROVAL FROM IRISH WATER

METAL BAND AROUND COVERS IN GREEN AREAS.

23. ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206.

AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.

27. ALL HYDRANTS SHALL BE CLOCKWISE CLOSING.

804 MATERIAL AS PER STD-W-13.

USED, SUBJECT TO APPROVAL FROM IRISH WATER.

METAL BAND AROUND COVERS IN GREEN AREAS.

33. ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206.

804 MATERIAL AS PER STD-W-13.

FOLLOWING TYPES, UNLESS OTHERWISE APPROVED:

(b) POLYETHYLENE PIPES AND FITTINGS COMPLYING WITH I.S. EN 12201: 2011.

SURROUND MATERIAL SUBJECT TO THE APPROVAL OF IRISH WATER.

14mm TO 5mm GRADED.

BACKFILL MATERIAL.

AT TOP OF PIPE BEDDING LAYER.

APPROVED BY ENGINEER.

OF THE PIPE SHALL BE 750mm FOR SERVICE CONNECTIONS, 900mm FOR WATER MAINS.

GREATER DEPTHS OF COVER AND/OR PIPE STRENGTH AND/OR A HIGHER CLASS OF BEDDING

MATERIAL MAY BE REQUIRED WHERE HIGH TRAFFIC LOADING IS ANTICIPATED. THE MAXIMUM

Project:

Standard Watermain **Details**

as shown Prepared by: Checked: Date: MG May 21 Michael Mc.Donnel Project Director: Drawing Status: Planning

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