

TYPICAL IRISH WATER DETAIL FOR WATER SERVICE

EXISTING AC / CI / uPVC PIPE

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE

ALL BENDS, TEES, DEAD ENDS, ETC, OF PIPELINES TO BE

POSSESSION OF A CURRENT TRAINING CERTIFICATE, USING

POSSESSION OF A CURRENT TRAINING CERTIFICATE, USING FULLY AUTOMATIC APPROVED JOINTING MACHINE/RIGS IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. THE IDENTITY OF THE PE PIPELINE MANUFACTURER SHALL BE MADE KNOWN TO IRISH WATER PRIOR TO COMMENCEMENT OF THE INSTALLATION, CERTIFICATION AND TESTING (INCLUDING NOEPENDENT THIRD PARTY CERTIFICATION, SHALL BE PROVIDED

TO CONFIRM QUALITY ASSURANCE COMPLIANCE. EACH JOINT SHALL BE CLEARLY MARKED WITH THE JOINT LOGGED AUTOMATICALLY ON THE JOINTING MACHINE. A PRINTOUT OF THE

JOINT DETAILS, WITH A GPS LOCATION OF EACH JOINT, SHALL BE PROVIDED AND RETAINED FOR QUALITY ASSURANCE PURPOSES.

NECTING TO EXISTING MAINS IS TO BE CARRIED OUT BY IRISH

METHOD STATEMENT SHALL BE SUBMITTED TO IRISH WATER PRIOR TO WORKS TAKING PLACE AND SUBJECT TO WRITTEN APPROVAL, DETAILING THE PROTECTION TO BE PUT IN PLACE TO EXISTING

ST - STEEL OTHER - REFERS TO ALL EXISTING PIPE MATERIALS OTHER THAN PE

ALL THRUST FLANGES TO BE ADEQUATELY RESTRAINED BY THRUST BLOCKS AS PER DRAWING No. STD-W-28. THRUST BLOCKS NOT SHOWN FOR CLARITY.

HIGH LEVEL OF HEALTH & SAFETY PROCEDURES IS REQUIRED WHEN WORKING ON AC MAINS, & THE OPERATION OF DISMANTLING/REMOVAL OF AC PIPES & JOINTS.

/ALVES SHALL BE ARRANGED IN SUCH A MANNER TO ALLOW FOR THE NETWORK TO BE MANAGED TO ENSURE THAT NO MORE THAN 40 PROPERTIES LOSE WATER FROM A BURST ON THE SYSTEM AT ANY ONE TIME.

MAINS, METHOD OF REMOVAL OF EXISTING AC, METHOD OF DISPOSAL OF EXISTING AC AND METHOD OF CONNECTION TO EXISTING AC.

IPE MATERIAL REFERENCES AS FOLLOWS PIPE MATERIAL REFERENCES AS FOLLOWS:
AC - ASSESTOS CEMENT
DUCTILE IRON
CI - CAST IRON
PE - POLYETHYLENE
UPVC - UNPLASTICISED POLY VINYL CHLORIDE

(TYPICALL AC, DI, CI, uPVC & ST).

EN EXISTING AC WATERMAINS ARE PRESENT A SPECIFIC

**CONNECTION RESPONSIBILITY - NTS** 

DISMANTLING SV STEPPED OR FLEXIBLE COUPLING

NEW PE - EXISTING AC / CI / uPVC (DIFFERENT SIZE TO NEW)

NEW PE - EXISTING DI

NEW DI - EXISTING AC / CI / uPVC

NEW DI - EXISTING DI

**NEW PE - EXISTING PE** 

NEW PE - EXISTING AC / CI / uPVC (SAME SIZE AS NEW)



FLANGED PIPE & BOLTED

WATERMAIN CONNECTION INTERFACE AT SITE

**BOUNDARY** 

BYPASS METER SYSTEM

TBC PRIOR TO

EXISTING WATER MAIN

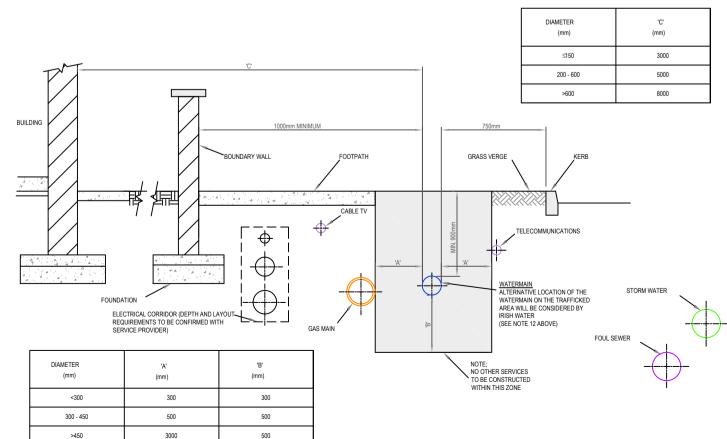
Me METER (>40 HOUSES)

S.V. 

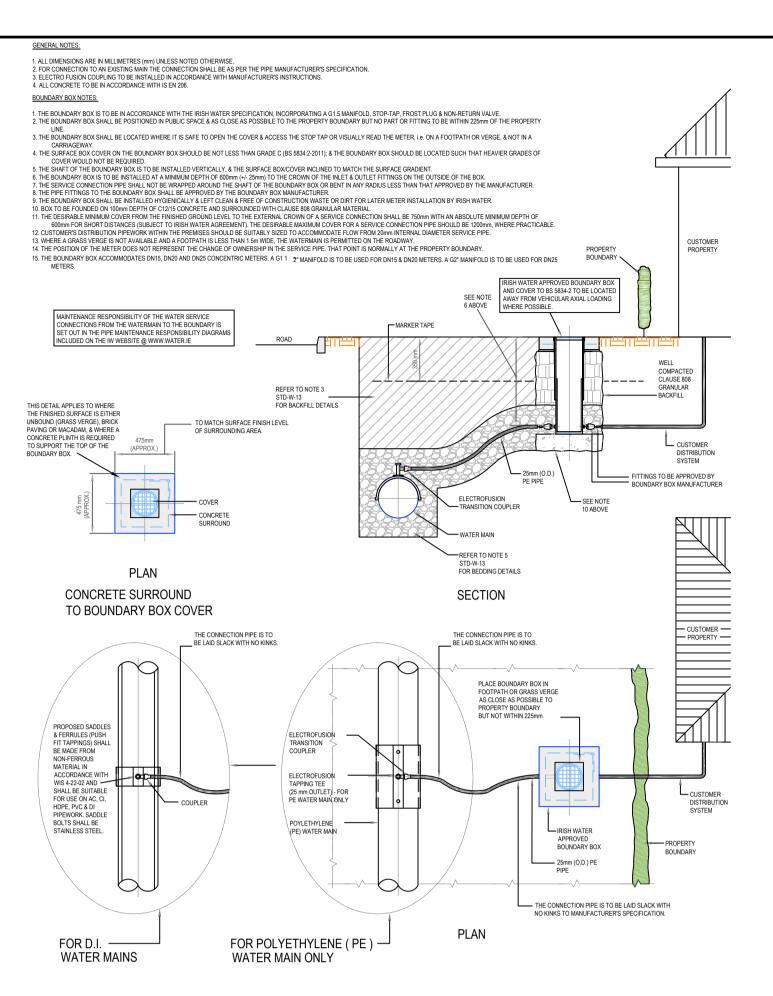
SLUICE VALVE Sc.V. SCOUR VALVE

O - HYDRANT

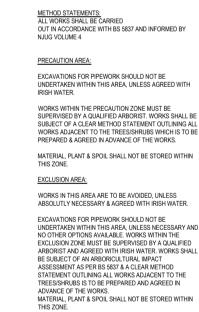


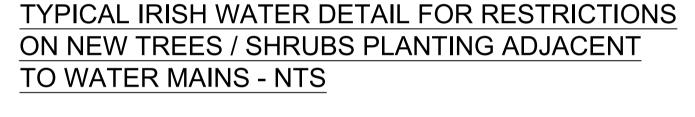


TYPICAL IRISH WATER DETAIL INDICATING **SEPARATION DISTANCES - NTS** 



## TYPICAL IRISH WATER DETAIL FOR CUSTOMER CONNECTION & BOUNDARY BOX (25mm OD OPE) - NTS





pending on the choice of tree

species or shrubs:

1. Establish increased (or decreased) distance from utility

2. Assume no protection measures

DIAGRAM 2: PLANTING DISTANCES FOR DIFFERENT SPECIES

herbaceous and annuals
Hedge plants and ground covers may be placed over the pipeline
Privet, Blackthorn, Snowberry, Berberis, Heathers, Cotoneaster &

THE DISTANCES GIVEN IN TABLE A.1. OF BS 5837 MUST BE FURTHER INFORMED BY THE SPECIES & DIAGRAM 2 BELOW. DIAGRAM 1 ABOVE PROVIDES A FLOW CHART TO THE DECISION PROCESS WHILST DIAGRAM 2 BELOW IS TO BE USED TO INFORM THE PLANTING REGIME.

PLEASE NOTE THAT TABLE A.1. OF BS 5837 (BELOW) IS TO BE USED TO CALCULATE THE ABSOLUTE MINIMUM DISTANCE BETWEEN NEW TREE PLANTING

FOR A SERVICE LESS THAN 1 METRE DEEP. THE MINIMUM DISTANCE IS TO BE 1.5m FOR A TREE BETWEEN 300 AND 600mm STEM DIAMETER AT MATURIT FOR A SERVICE GREATER THAN 1 METRE DEEP, THE MINIMUM DISTANCE IS TO BE 1.0m FOR A TREE BETWEEN 300 AND 600mm STEM DIAMETER AT MATURITY

ANTING IS AGREED WITH IRISH WATER AND IN GENERAL ONLY SHALLOW ROOTING SHRUBS SHALL BE PLANTED CLOSE TO WATER INFRASTRUCTUR.

Examples of Large Conifers & Deciduous Trees Scots Pine, Black Pine, Cedar, Larch, Lawson's Cypress, Ash, Beech, Sycamore, Horse Chestnut, Sweet Chestnut, London Plane, Lime, Alder, Elm, Oak

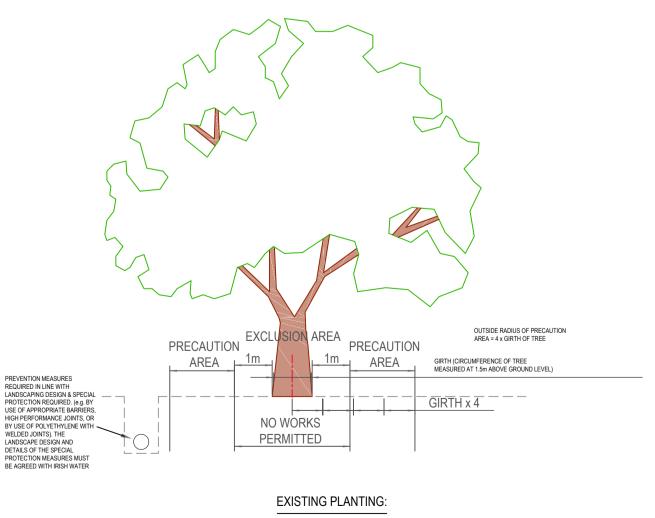
NOTE: RESTRICTIONS RELATE TO INFRASTRUCTURE WITHOUT ROOT INTRUSION PROTECTION.

THE DESIGN OF LANDSCAPING SHALL BE UNDERTAKEN IN CONJUNCTION WITH THE DESIGN OF WATER INFRASTRUCTURE, ETC. THE TREE/BUSHISHRUB SHALL NOT BE LOCATED CLOSER TO THE WATER INFRASTRUCTURE THAN INDICATED ABOVE, EXCEPT WHERE SPECIAL PROTECTION MEASURES ARE PROVIDED. WHERE THERE IS A RISK OF TREE/ROOT INTRUSION, THE WATER NFRASTRUCTURE SHALL BE RESISTANT TO THEE ROOT INGRESS (e.g. BY USE OF APPROPRIATE BARRIERS, HIGH PERFORMANCE JOINTS, OR BY USE OF POLYETHYLENE WITH WELDED JOINTS). THE LANDSCAPE DESIGN AND DETAILS OF THE SPECIAL PROTECTION MEASURES MUST BE AGREED WITH IRISH WATER

PLEASE ENSURE THAT THESE DISTANCES ARE ADHERED TO IN ORDER TO PROTECT THE TREES FROM ANY FUTURE MAINTENANCE. REFERENCE SHOULD ALSO BE MADE TO BS 5837, BS 8545

A TRFF SHALL NOT BE PLANTED DIRECTLY OVER WATER INFRASTRUCTURE WHERE EXCAVATION OF THE INFRASTRUCTURE WOULD REQUIRED REMOVAL OF THE TREE UNLESS SUCH

FROM THE WATER INFRASTRUCTURE (THE SERVICÉS). THE DISTANCE IS REQUIRED TO AVOID DIRECT DAMAGE TO THE INFRASTRUCTURE FROM FUTURE GROWTH. THE DISTANCE IS A FUNCTION OF THE DEPTH OF THE SERVICES AND THE (FINAL EXPECTED) STEM DIAMETER OF THE TREE AT



TYPICAL IRISH WATER DETAIL FOR RESTRICTIONS ON WATER INFRASTRUCTURE WORKS ADJACENT TO EXISTING TREES - NTS

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Drawn Check

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DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY ERRORS OR OMISSION

distance (as per step 2)

WATERMAINS

NOTE THAT VALUES REFER TO PLANTING DISTANCES WITHOUT ROOT BARRIERS OR PROTECTION MEASURES

10.0m

6.0m

3.0m

WESTAR HOMES LTD FINLAY PARK

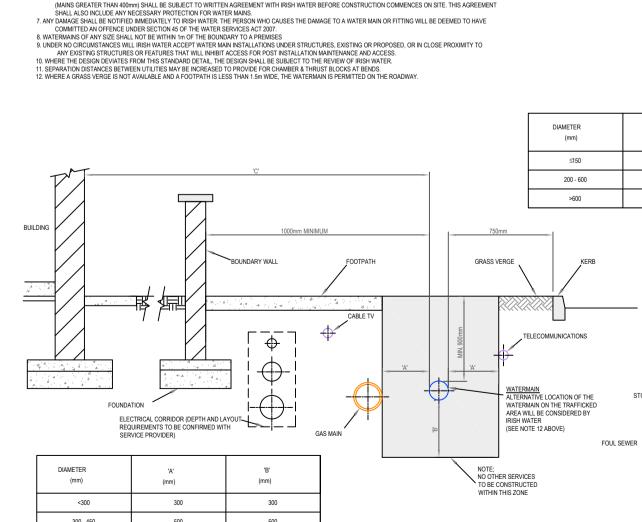
S2.P01 ISSUED FOR PLANNING

Rev. Note

Drawing Title: TYPICAL WATERMAIN DETAILS SHEET 1 OF 3

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PLANNING ISSUE



WORKS WITHIN THE PRECAUTION ZONE MUST BE SUPERVISED BY A QUALIFIED ARBORIST. WORKS SHALL BE SUBJECT OF A CLEAR METHOD STATEMENT OUTLINING ALL WORKS ADJACENT TO THE TREES:HRUBS WHICH IS TO BE PREPARED & AGREED IN ADVANCE OF THE WORKS. MATERIAL, PLANT & SPOIL SHALL NOT BE STORED WITHIN THIS ZONE. UNDERTAKEN WITHIN THIS AREA, UNLESS NECESSARY AND NO OTHER OPTIONS AVAILABLE. WORKS WITHIN THE EXCLUSION ZONE MUST BE SUPERVISED BY A QUALIFIED ARBORIST AND AGREED WITH IRISH WATER. WORKS SHALL BE SUBJECT OF AN ARBORICULTURAL IMPACT

NOTE: OTHER SPECIES NOT NAMED TO BE PLANTED TO THE

SAME SPACINGS DEPENDING

TYPICAL IRISH WATER DETAIL FOR **GENERAL PIPE CONNECTIONS - NTS** 

NEW DI - EXISTING PE