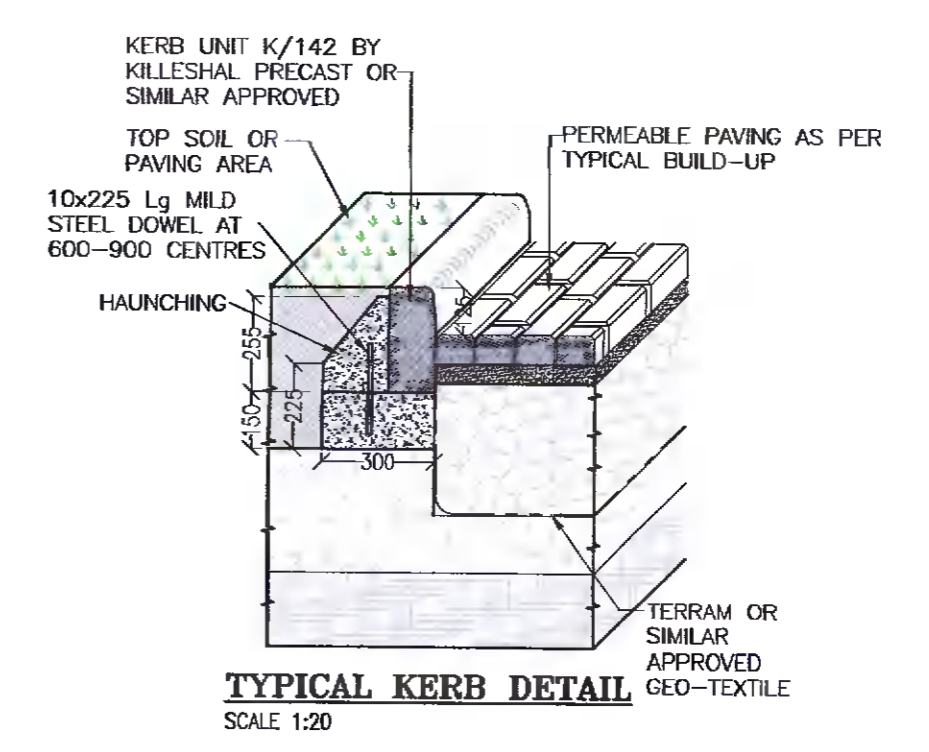
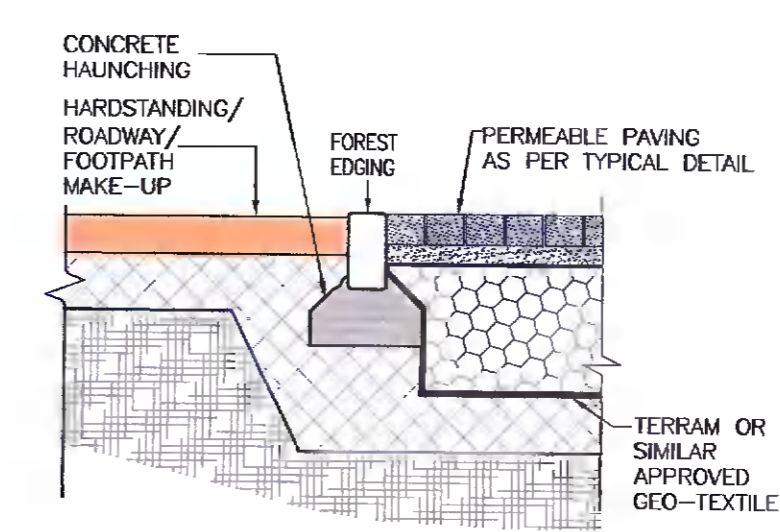


TYPICAL SECTION THROUGH SOAKAWAY
Scale 1:20

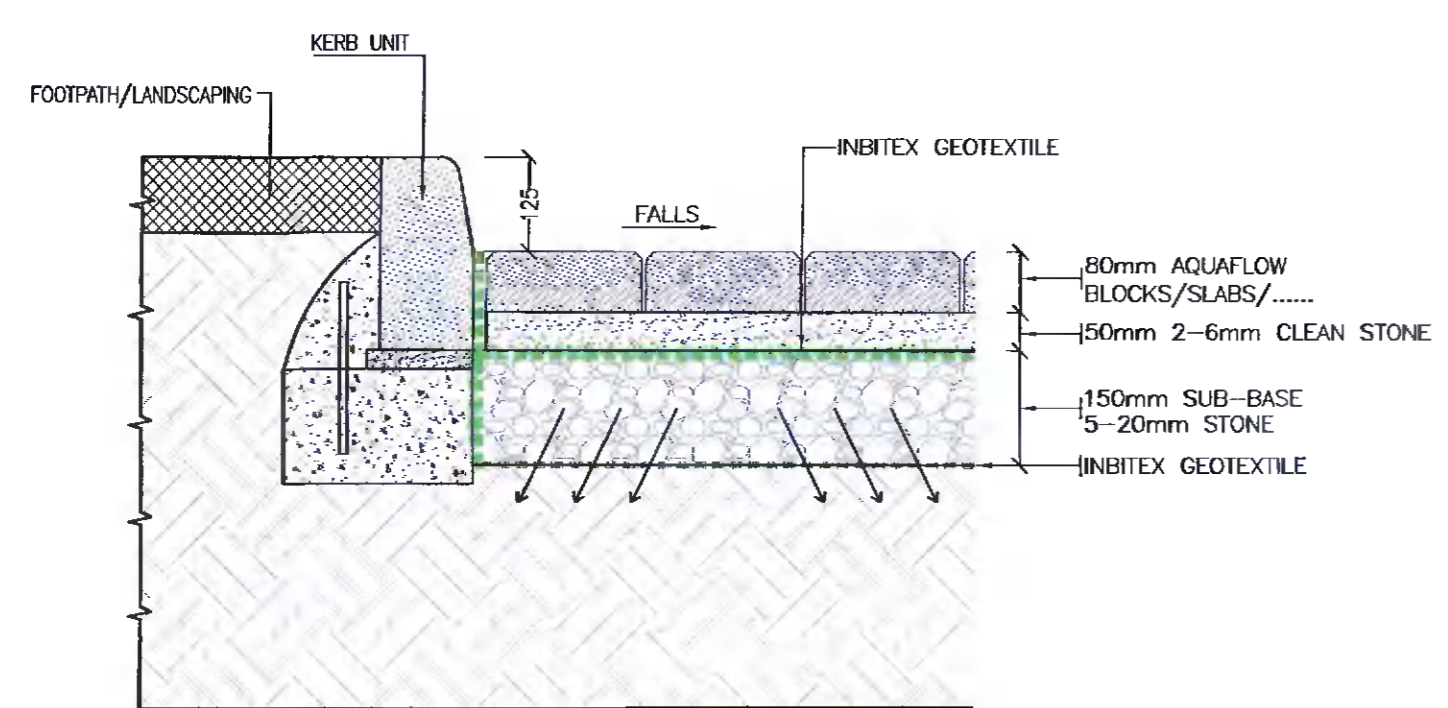


TYPICAL KERB DETAIL
SCALE 1:20

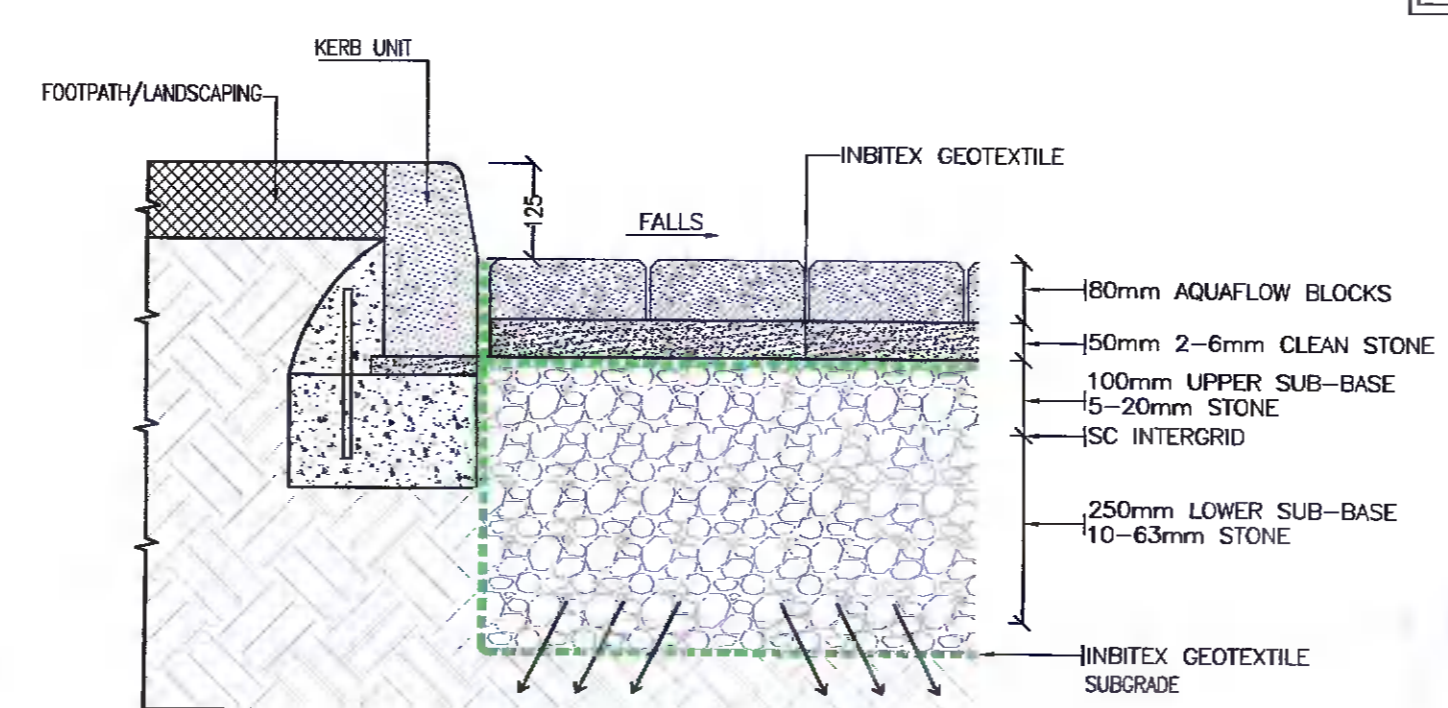


TYPICAL PERMEABLE PAVING AND HARDSTANDING JUNCTION DETAIL
SCALE 1:20

NOTE:
ALL FOUL SEWER & WATERMAIN DETAILS TO BE READ IN CONJUNCTION WITH IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS

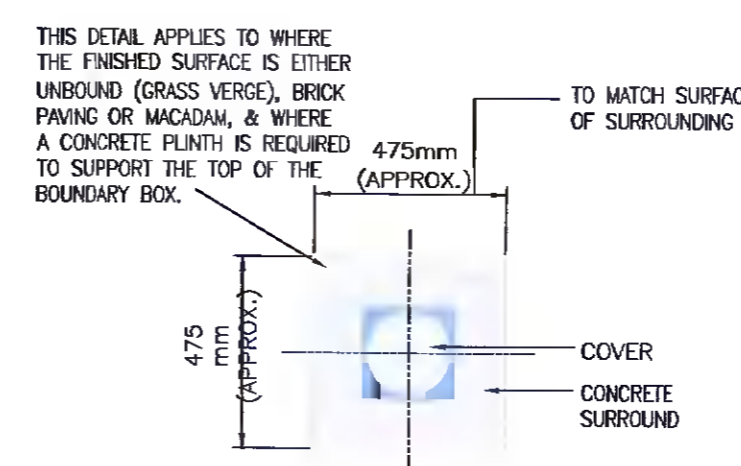


PERMEABLE PAVING DETAIL - PEDESTRIAN AREA
Scale 1:10



PERMEABLE PAVING DETAIL - TRAFFICKED AREA
Scale 1:10

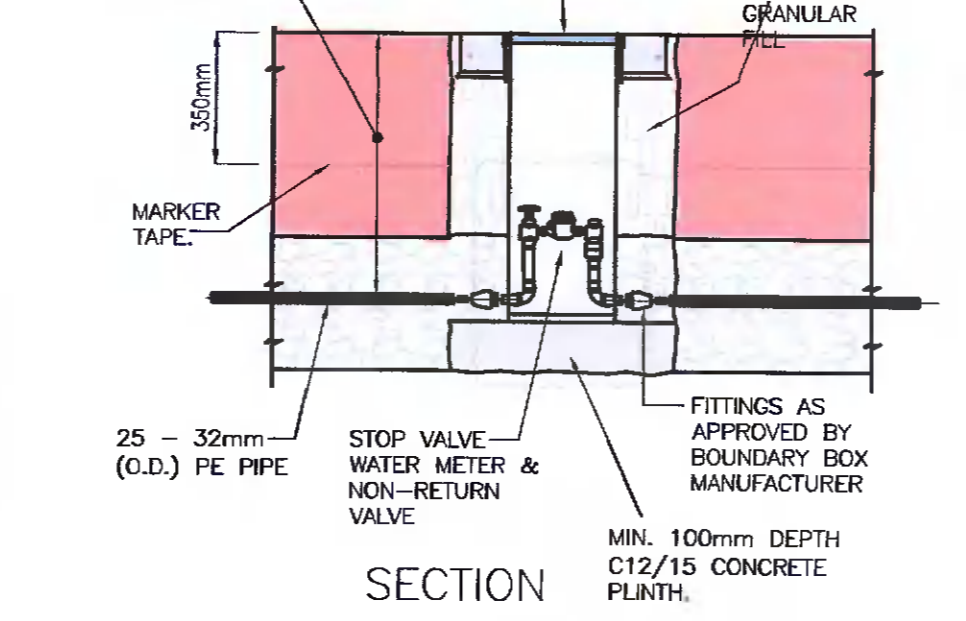
NOTE:
SUBJECT TO CBR OF 5%



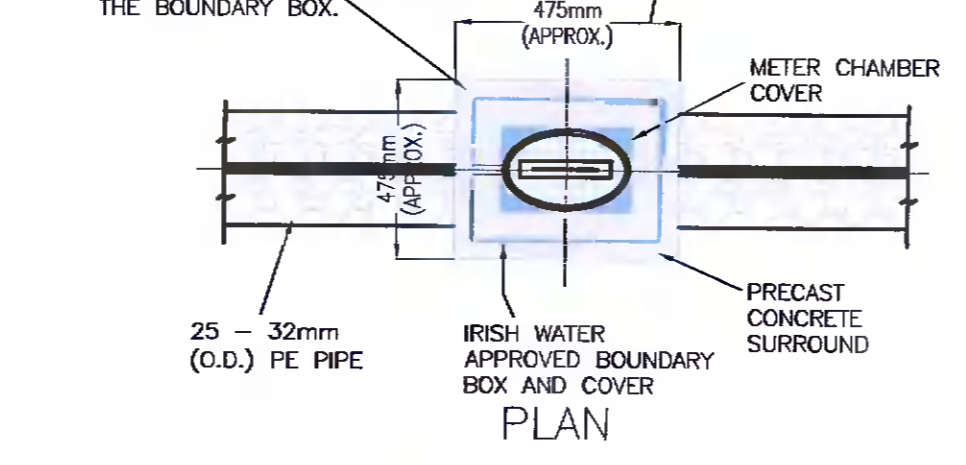
PLAN CONCRETE SURROUND TO BOUNDARY BOX COVER

IRISH WATER APPROVED BELOW GROUND, SELF CONTAINED, TELESCOPIC, FROST PROOF, POLYPROPYLENE, METER BOX AND COVER TO BS 5834-2 TO BE LOCATED AWAY FROM VEHICULAR AXIAL LOADING WHERE POSSIBLE.

THE BELOW GROUND METER BOX IS TO BE INSTALLED AT A MINIMUM DEPTH OF 600mm (+/- 25mm) TO THE CROWN OF THE INLET & OUTLET FITTINGS ON THE OUTSIDE OF THE BOX.

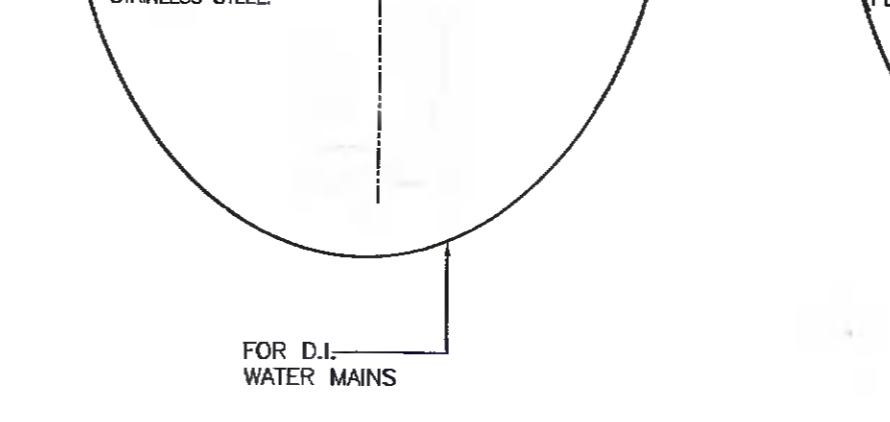
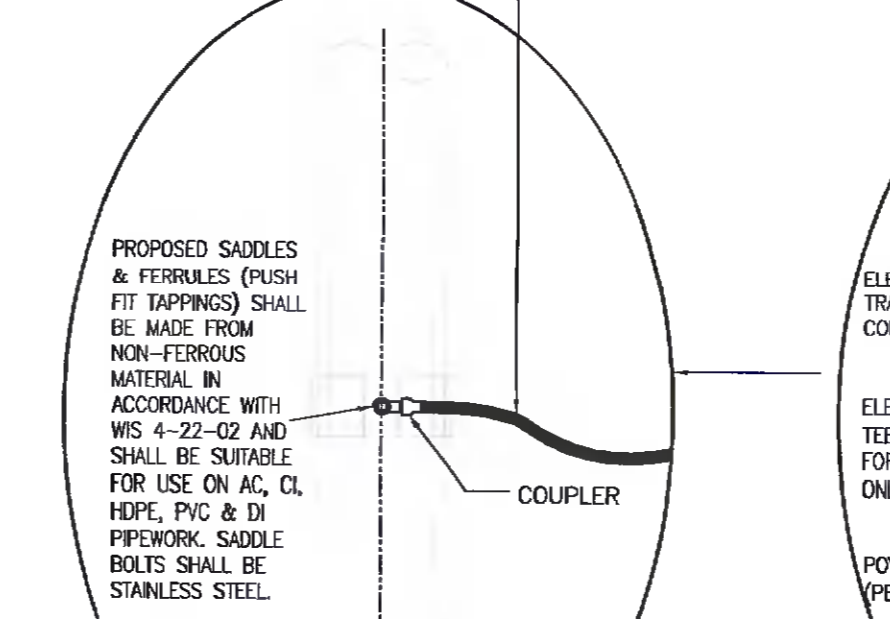


THIS DETAIL APPLIES TO WHERE THE FINISHED SURFACE IS EITHER UNBOUND (GRASS VERGE), BRICK PAVING OR MACADAM, & WHERE A CONCRETE PLINTH IS REQUIRED TO SUPPORT THE TOP OF THE BOUNDARY BOX.

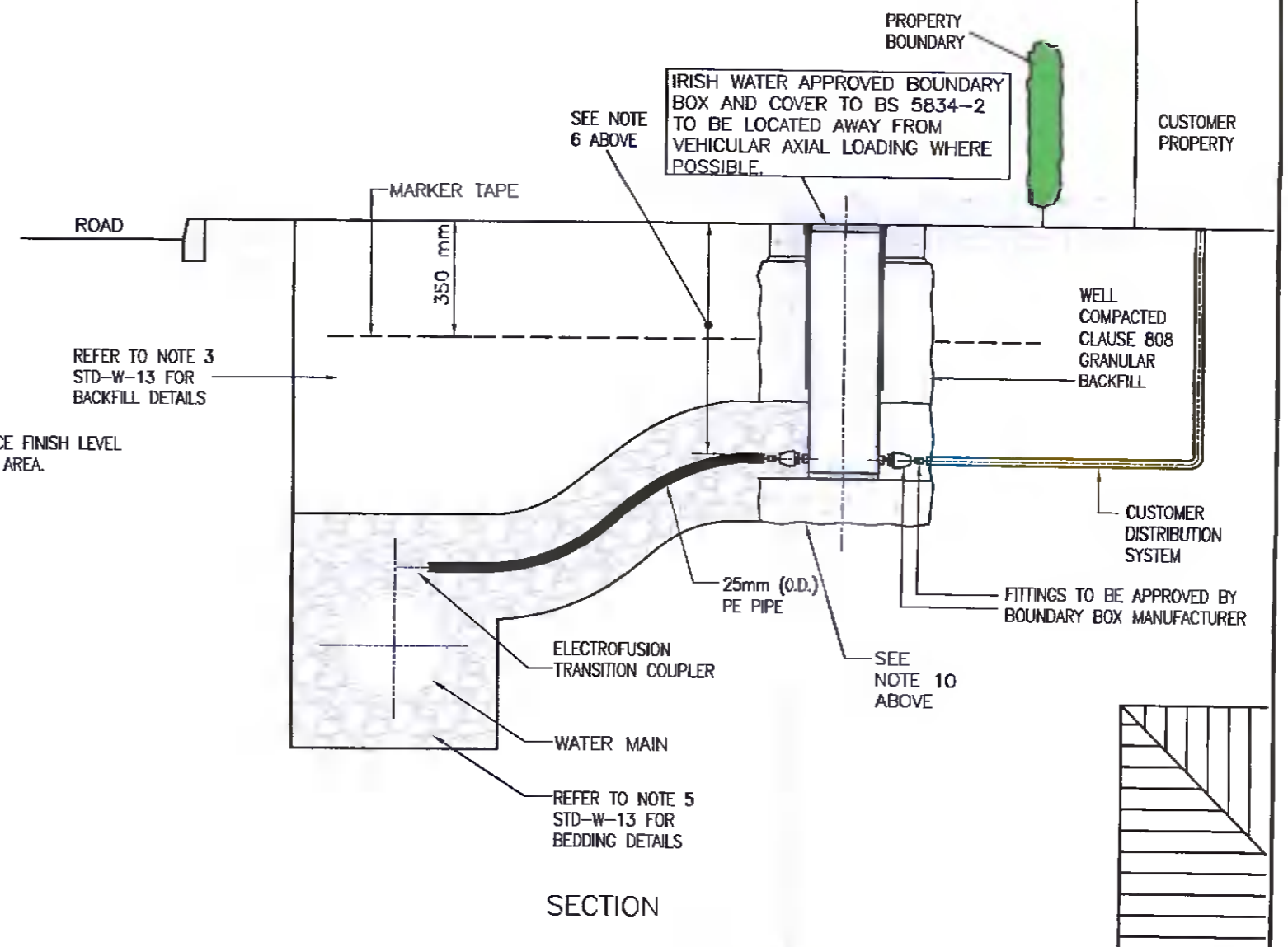


PLAN INLINE FLOW METER CHAMBER (25-32mm O.D. DIA.)

THIS DETAIL APPLIES TO WHERE THE FINISHED SURFACE IS EITHER UNBOUND (GRASS VERGE), BRICK PAVING OR MACADAM, & WHERE A CONCRETE PLINTH IS REQUIRED TO SUPPORT THE TOP OF THE BOUNDARY BOX.



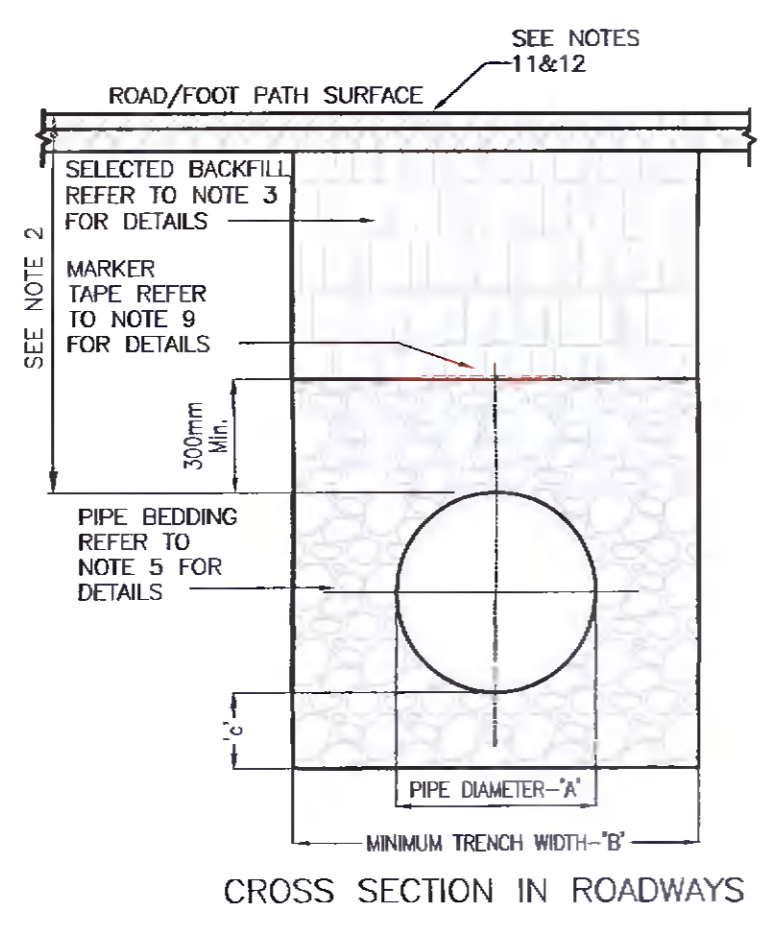
SECTION CUSTOMER CONNECTION AND BOUNDARY BOX (25mm OD PIPE)



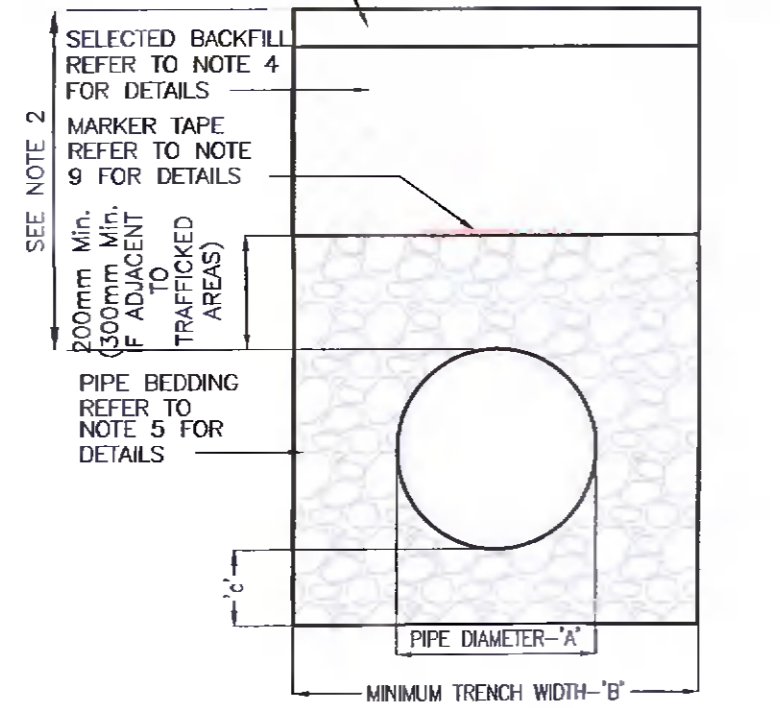
SECTION

PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
≤80	SEE NOTE 10
100	500
150	600
200	600
250	750
300	750
350	750
400	900
450	900

PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
≤ 200	150
> 250	200



CROSS SECTION IN ROADWAYS



CROSS SECTION IN GRASSED AREAS

TRENCH BACKFILL/BEDDING DETAIL FOR WATERMAIN

- NOTES:-
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. DIMENSIONS TO BE CHECKED ON SITE.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL & ENGINEERING DRAWINGS & ALL OTHER RELEVANT DRAWINGS & SPECIFICATIONS.
 - ALL LEVELS RELATE TO A DATUM OF 00.00m TAKEN AT EXISTING ENTRANCE WITH EXCEPTION OF THE FOUL SEWER LEVELS WHICH ARE TO MAIN HEAD.
 - SPIGOT SOCKET CONNECTION TO BE USED AT PVC-A/DUCTILE IRON JUNCTIONS.
 - WATERMAIN TO BE MDPE-PE 80. COVER TO WATERMAIN TO BE 900mm.
 - ALL FOUL SEWERS TO BE 150mmØ min CONCRETE OR PVC-U. ALL SURFACE WATER SEWERS TO BE 225mmØ MINIMUM CLASS H. ALL CONNECTING SEWERS TO LOCAL AUTHORITY'S DRAINS TO BE 225mmØ.
 - ALL WORKS SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE RECOMMENDATIONS & CONDITIONS ISSUED BY LOCAL AUTHORITY.
 - THE DEVELOPMENT SHALL BE CONNECTED TO THE PUBLIC SEWER TO THE SATISFACTION OF THE LOCAL AUTHORITY. THE MINIMUM COVER TO ANY SEWER SHALL BE 1.2m IN ROADS AND 0.9m IN OPEN SPACES AND FOOTPATHS NOT ADJACENT TO CARRIAGEWAYS. WHERE IT IS NOT POSSIBLE TO ACHIEVE THESE MINIMUM COVERS, PIPES SHALL BE BEDDED AND SURROUNDED IN CONCRETE 150mm THICK.
 - ALL MANHOLE COVERS AND FRAMES SHALL BE HEAVY DUTY GRADE A TO BS 497 & TO COMPLY WITH LOCAL AUTHORITY'S REQUIREMENTS.
 - THE SEWERS AND MANHOLES SHALL BE LAID AND TESTED IN ACCORDANCE WITH THE LOCAL AUTHORITY'S AND IRISH WATER GUIDELINES SPECIFICATIONS. LAYING, BEDDING AND BACK FILLING OF SEWERS SHALL BE IN ACCORDANCE WITH DFK SPECIFICATIONS & DRAWINGS.
 - ALL SERVICES TRENCHES IN ROADS SHALL BE BACK FILLED AND PROPERLY COMPACTED WITH GRANULAR MATERIAL AS PER DFK TYPICAL DETAILS.
 - ALL GULLIES AND MANHOLES LOCATED IN THE PUBLIC ROAD SHALL BE LOCKING TYPE.
 - DOUBLE GULLIES TO BE PROVIDED AT ALL ROAD SAG CURVES AND CUL DE SACS WHERE INDICATED. SEPARATE CONNECTIONS SHALL BE PROVIDED FOR EACH GULLY. NO GULLY SHALL BE MORE THAN 10m FROM A SURFACE WATER CONNECTION.
 - IN ANY INSTANCES WHERE 1200 COVER TO SEWER IS NOT ACHIEVED, THE PIPE SHOULD BE SURROUNDED IN 150mm CONCRETE.
 - ANCHOR BLOCKS TO BE POSITIONED AT DEAD ENDS, TEES, BENDS AT EACH SIDE OF HYDRANTS AND VALVES. HYDRANT OUTLETS TO BE 200mm BELOW GROUND LEVEL UNLESS REQUESTED OTHERWISE.

Rev.	Date	Drawn By	Checked By	Revision

Status
PLANNING

Client
TERESA & SEAN BUTLER

Project
HAWTHORNS
KILLAKEE LAWNS
FIRHOUSE
DUBLIN 24

Drg. Title
DRAINAGE & WATERMAIN DETAILS
SHEET 1 OF 2

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DFK
DOHERTY FINEGAN KELLY
DOHERTY FINEGAN KELLY
CONSULTING CIVIL & STRUCTURAL ENGINEERS
Botanic Court, 30 Botanic Road,
Glasnevin, Dublin D09 W2V9.
Tel: (01) 8301852 Fax: (01) 8602265
E-Mail: mailroom@dfk.ie

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Drg. No.	21175-02	Rev.	-