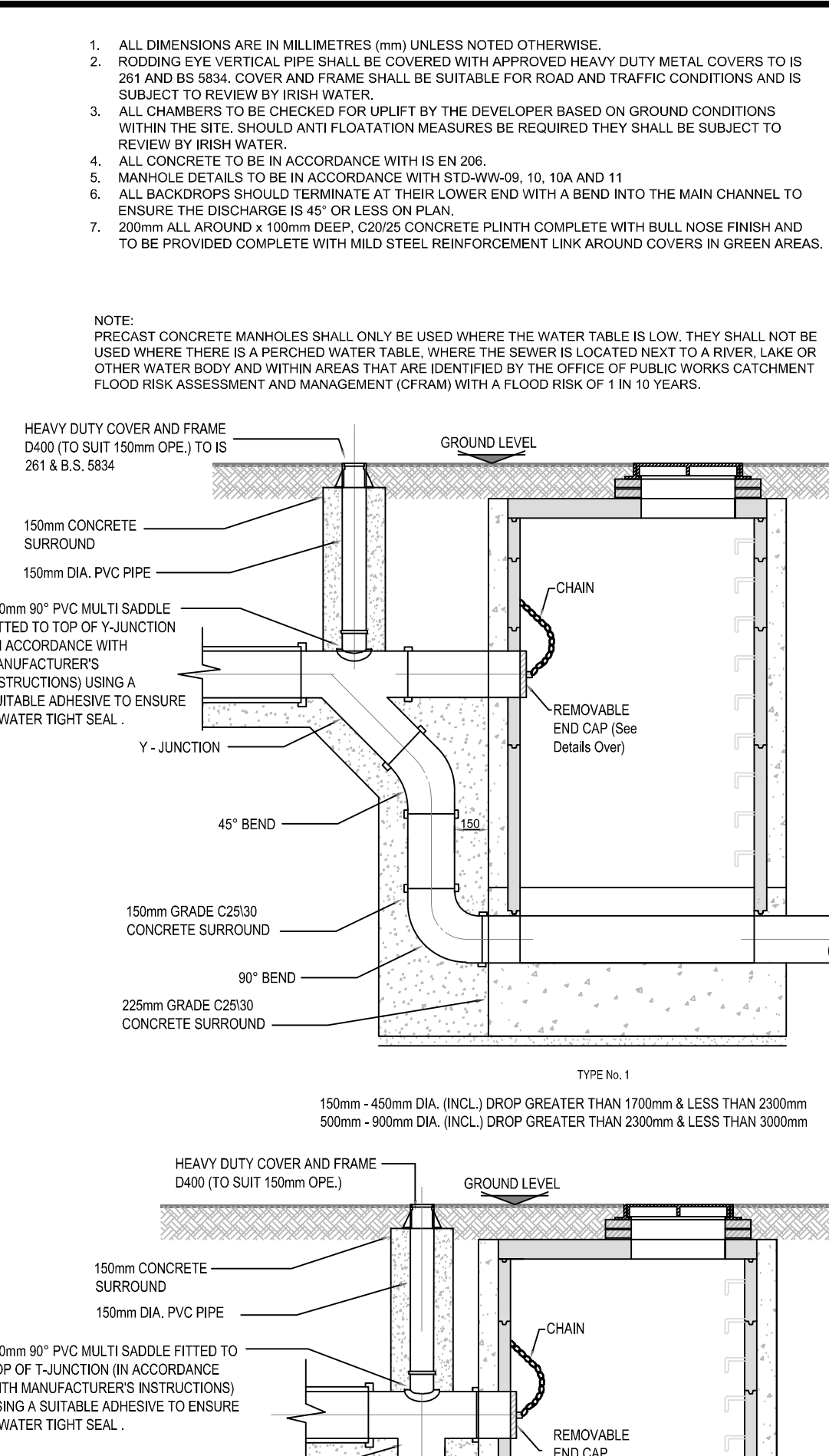


DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)	MIN. PRECAST ROOF SLAB EFFECTIVE THICKNESS (mm)	MIN. IN-SITU ROOF SLAB THICKNESS (mm)
LESS THAN 375	1200	160	225
375 TO 400	1350	160	225
500 TO 750	1500	170	225

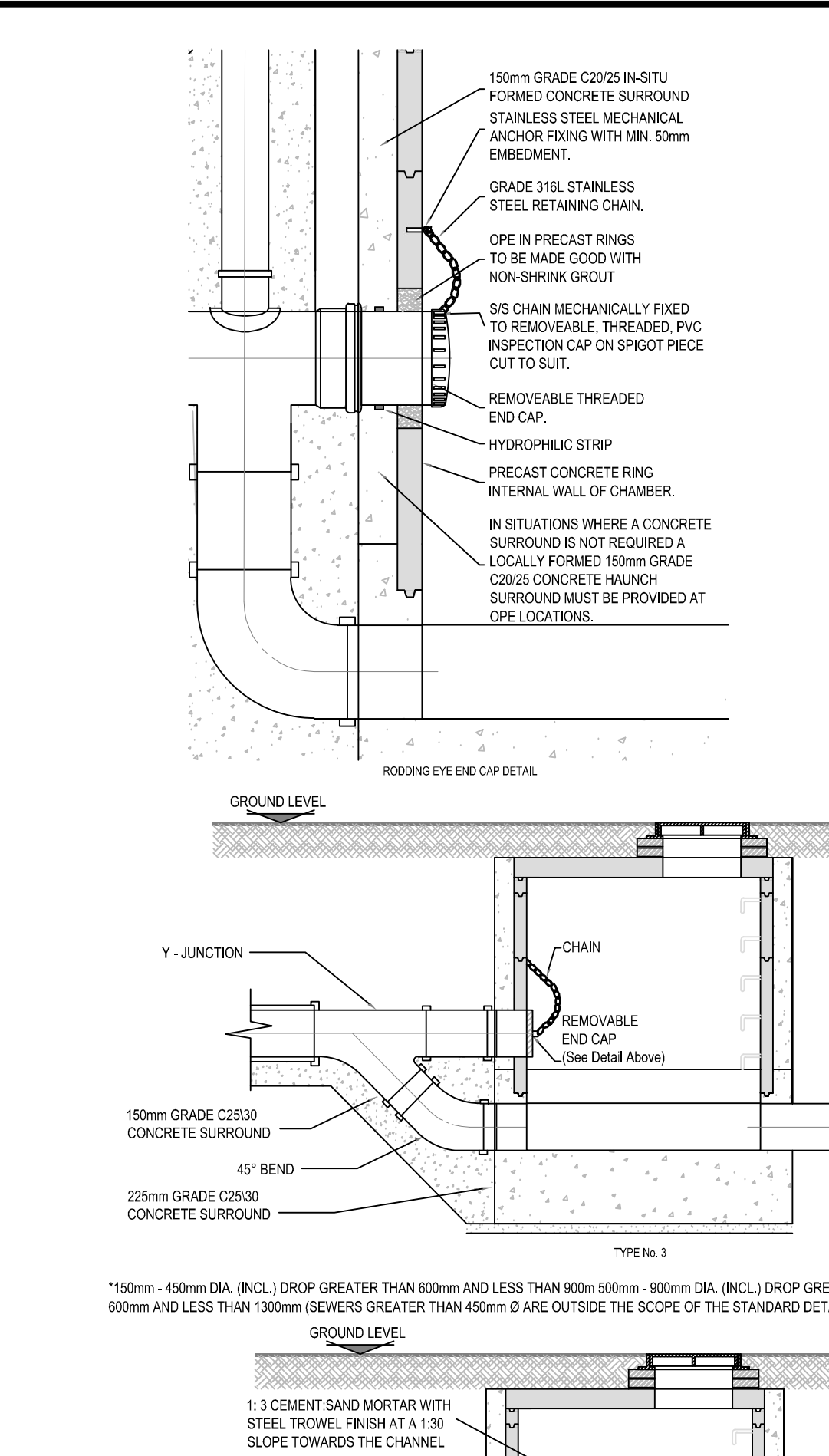
PIPE DIAMETER (mm)	ROCKER PIPE LENGTH (mm)
150 TO 600	600
GREATER THAN 600 TO 750	1000
GREATER THAN 750	1500

TYPICAL PRE-CAST CONCRETE MANHOLE WITH PRE-CAST BASE (IRISH WATER: STD-WW-010A)



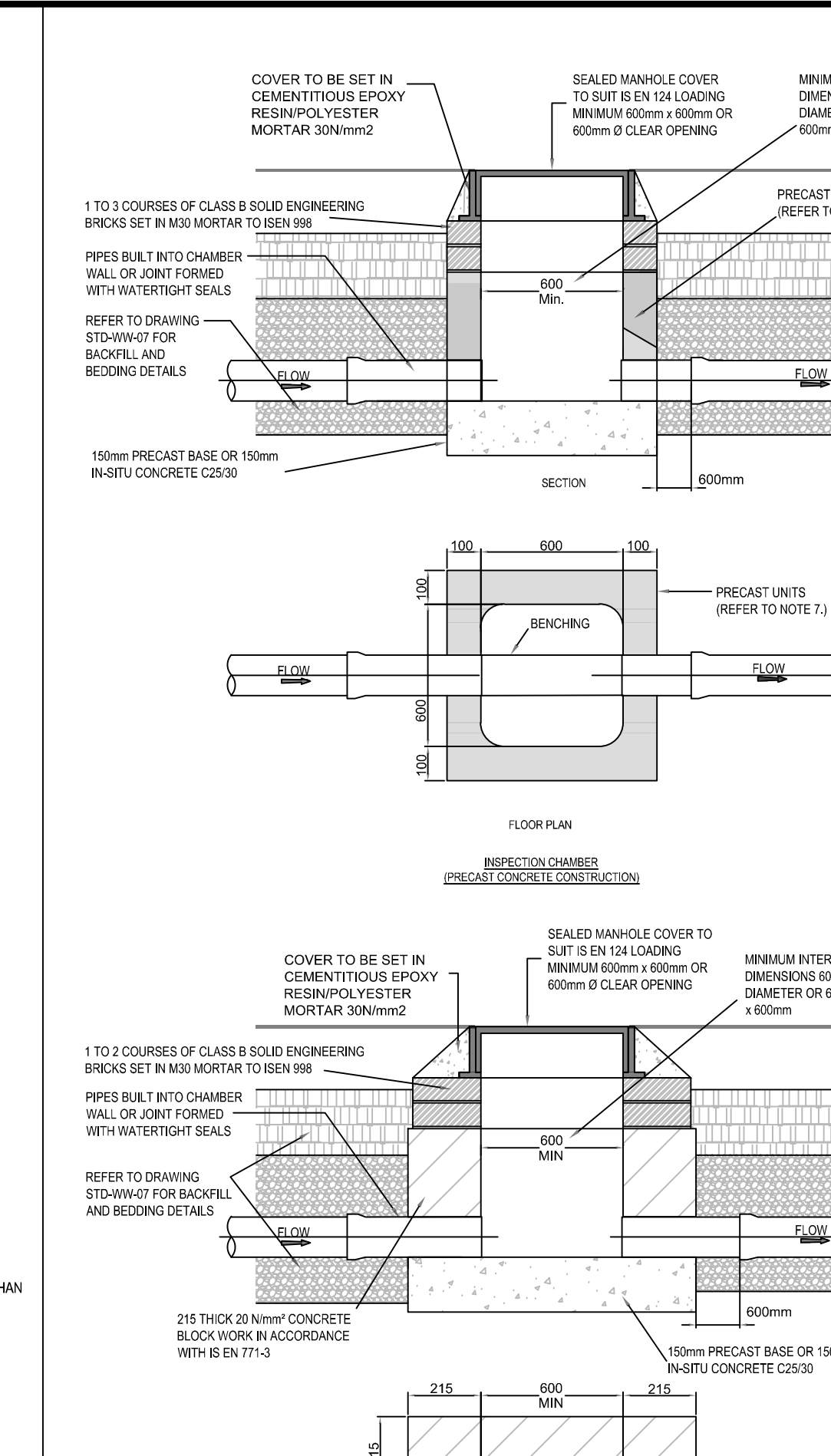
PIPE DIAMETER (mm)	ROCKER PIPE LENGTH (mm)
150 TO 600	600
GREATER THAN 600 TO 750	1000
GREATER THAN 750	1500

TYPICAL BACKDROP AND CASCADE MANHOLES (IRISH WATER: STD-WW-012 Rev 3)



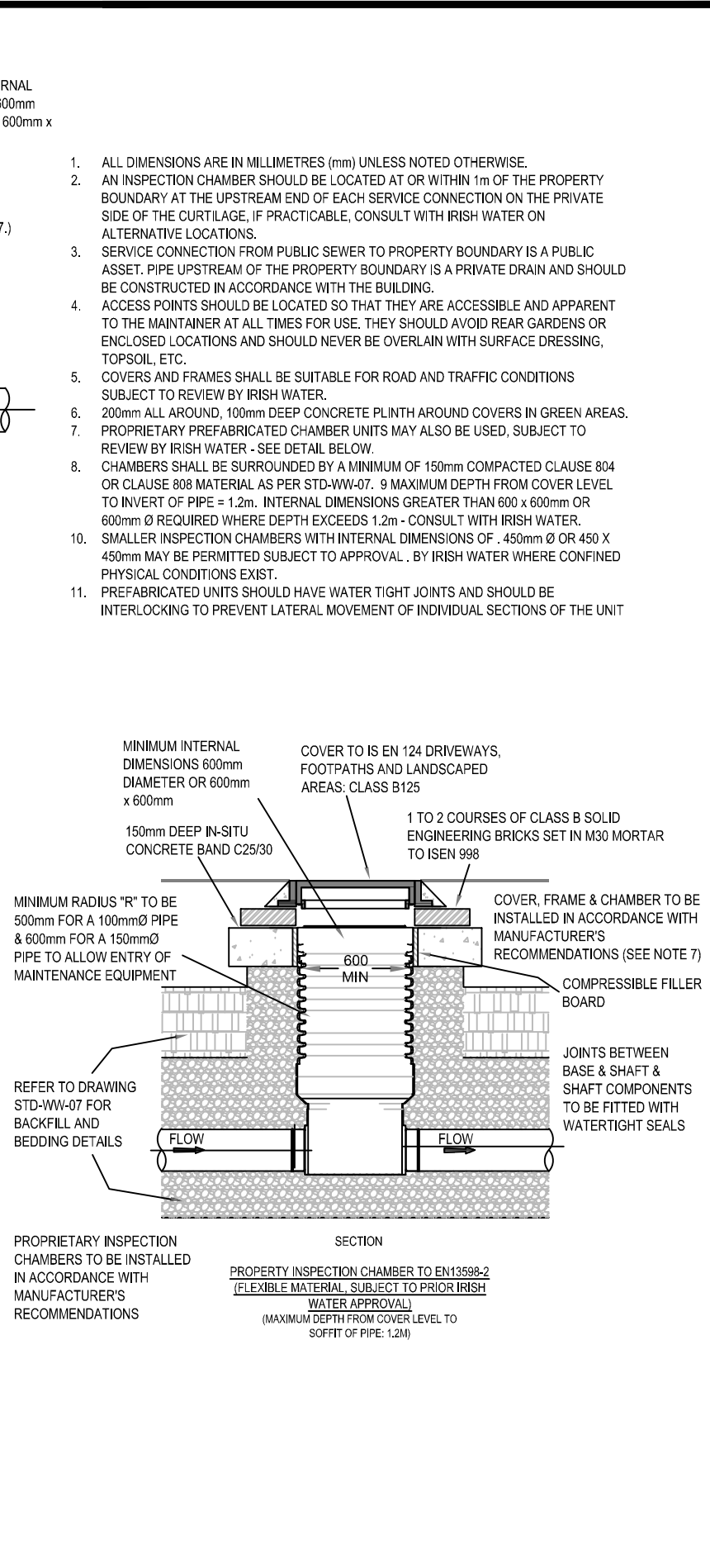
PIPE DIAMETER (mm)	ROCKER PIPE LENGTH (mm)
150 TO 600	600
GREATER THAN 600 TO 750	1000
GREATER THAN 750	1500

TYPICAL PRIVATE SIDE INSPECTION CHAMBER (IRISH WATER: STD-WW-013 Rev 3)



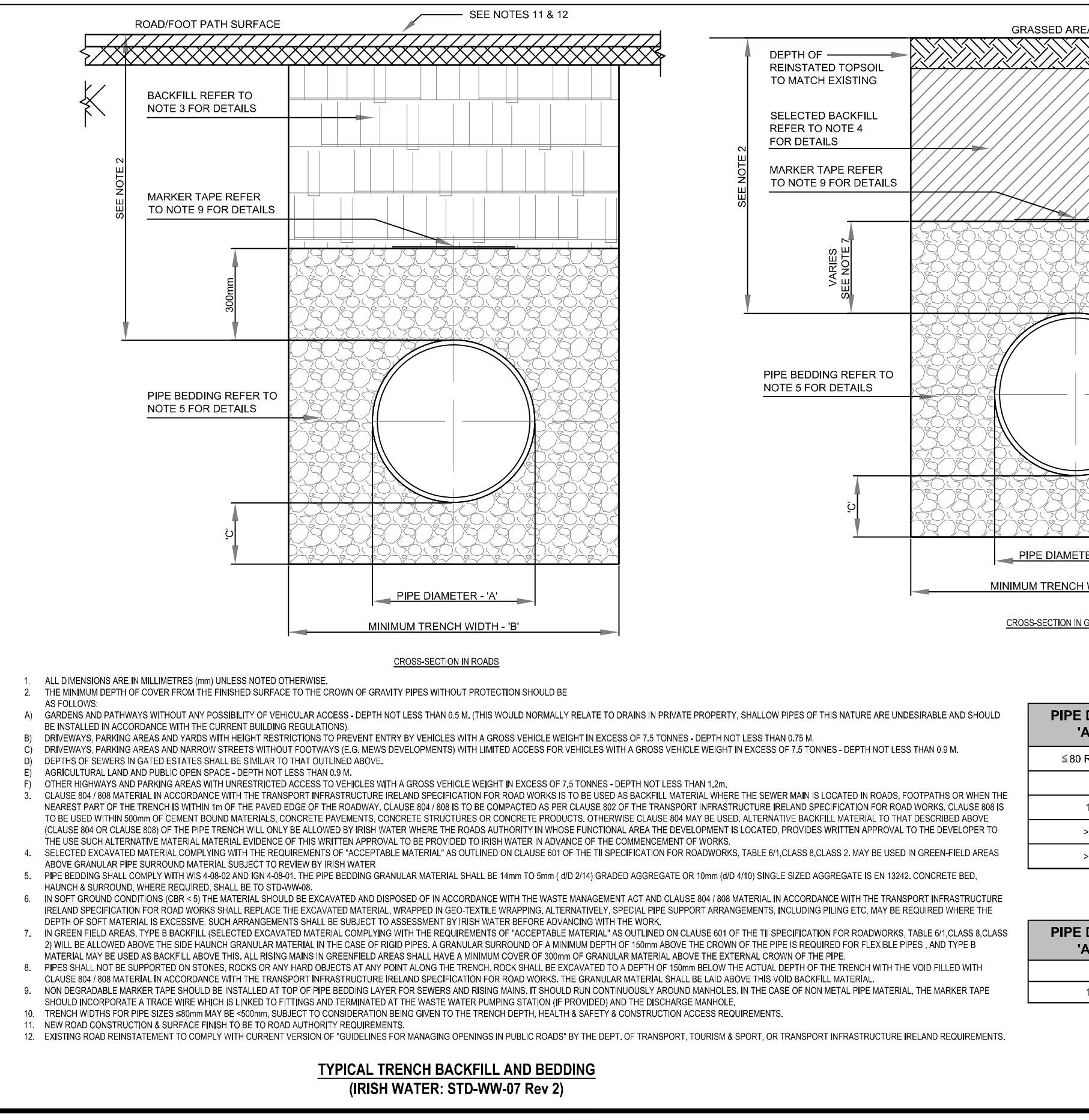
PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
≤ 80 RISING MAIN	SEE NOTE 10
100	500
150 - 200	600
250 - 350	750
> 350 - 450	900

TYPICAL TRENCH BACKFILL AND BEDDING (IRISH WATER: STD-WW-07 Rev 2)

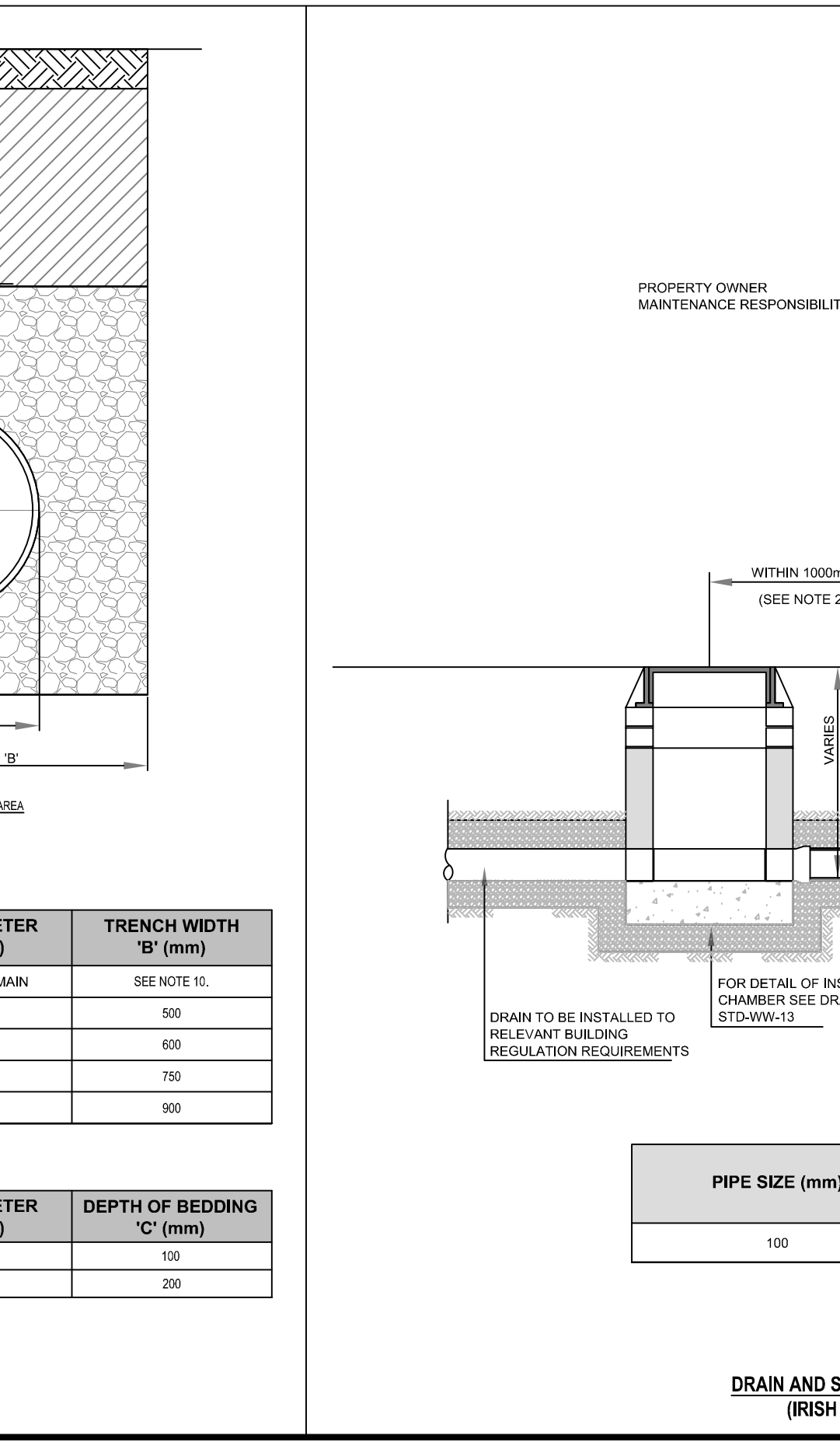


PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
≤ 100	100
150 - 450	200

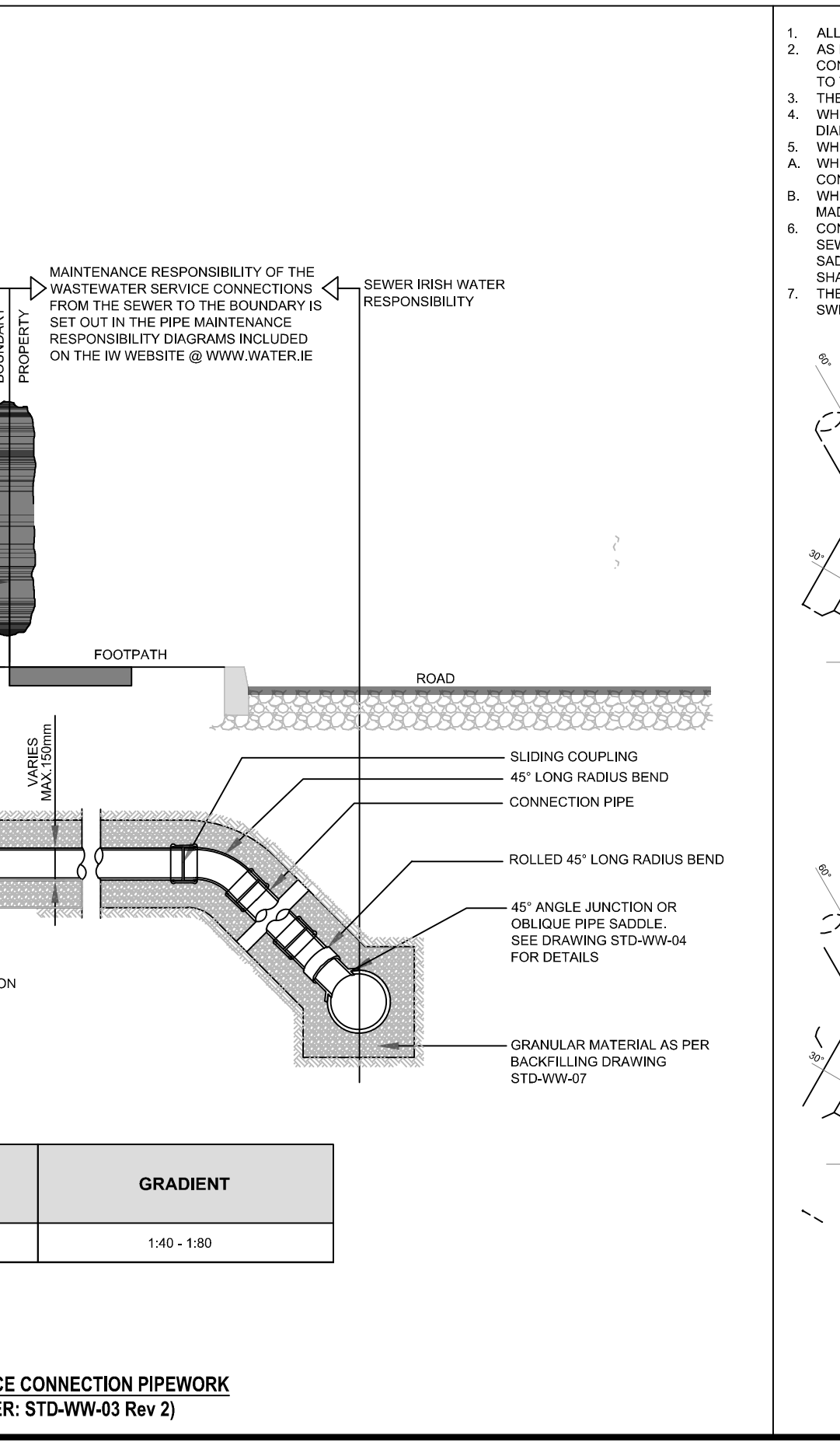
DRAIN AND SERVICE CONNECTION PIPEWORK (IRISH WATER: STD-WW-03 Rev 2)



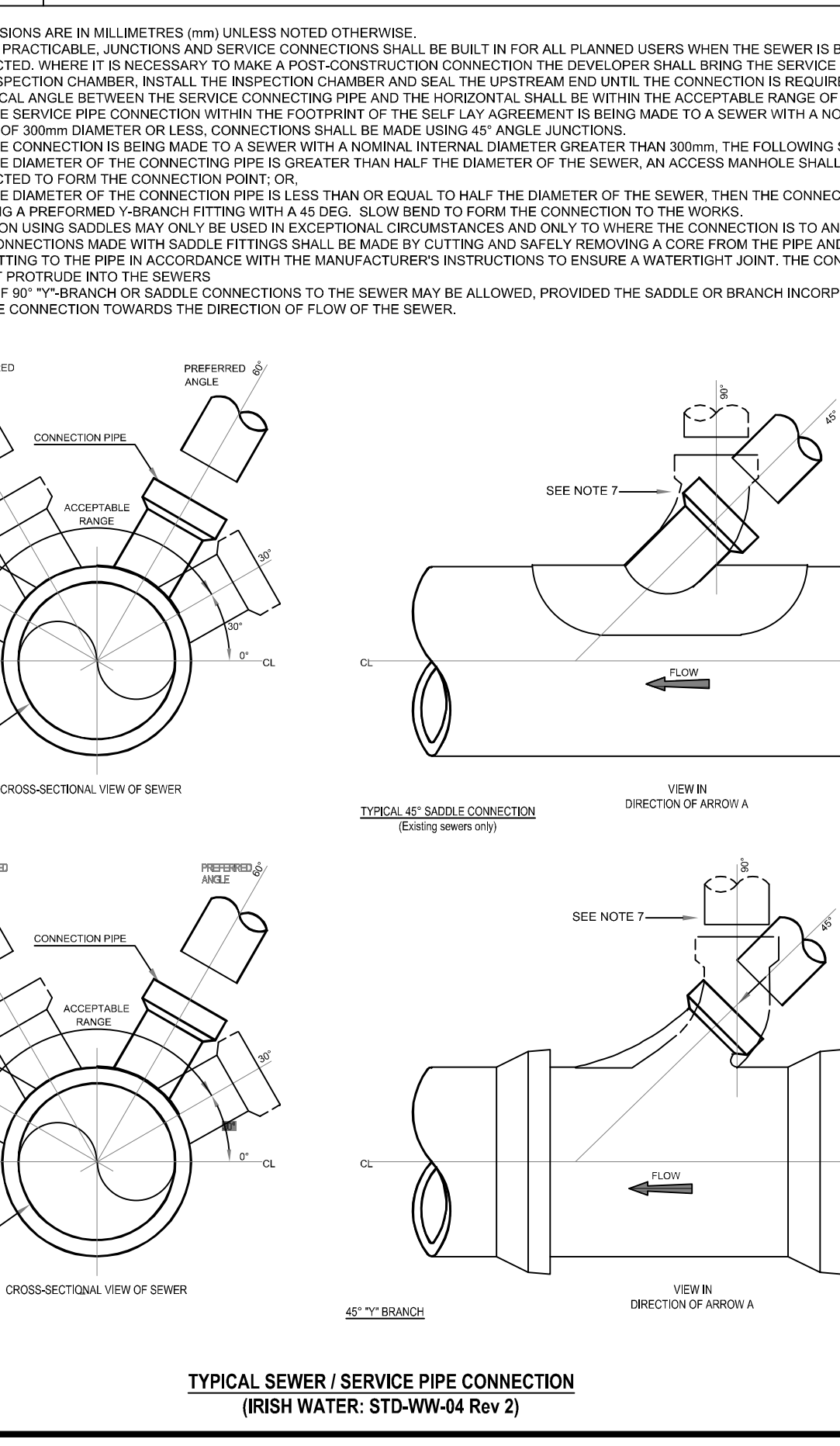
TYPICAL TRENCH BACKFILL AND BEDDING (IRISH WATER: STD-WW-07 Rev 2)



TYPICAL SEWER / SERVICE PIPE CONNECTION (IRISH WATER: STD-WW-04 Rev 2)



TYPICAL FOUL SEWER DRAINAGE DETAILS



DRAIN AND SERVICE CONNECTION PIPEWORK (IRISH WATER: STD-WW-03 Rev 2)

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NOTES:  
1. Figured dimensions only to be taken from this drawing.  
2. All dimensions to be checked on site.  
3. All levels are in metres O.D. and are related to Ordnance datum at Malin.  
4. Details from this drawing to be read with an Irish Water Standard Details and Water Code of Practice.

INITIAL ISSUE	LR	21.10.21	PO1
Description:		Drawn	Date: Rev.

Client:  
**QUINTAIN DEVELOPMENTS IRELAND LIMITED**

Project:  
**PORTMARNOCK SOUTH PHASE 1D**

Clients Representative:  
**J. B. Barry and Partners Limited Consulting Engineers**

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Drawn By: LR Date: APRIL 2021  
Checked By: LR Date: APRIL 2021 Approved By: GF Date: APRIL 2021  
Internal Project Ref: 21205 Stage: PLANNING Suit: S3

Drawing Title:  
**TYPICAL FOUL SEWER DRAINAGE DETAILS**

Scales:  
1:50 @ A1

Drawing No.: 21205-JBB-00-XX-DR-C-04011 Rev: PO1