

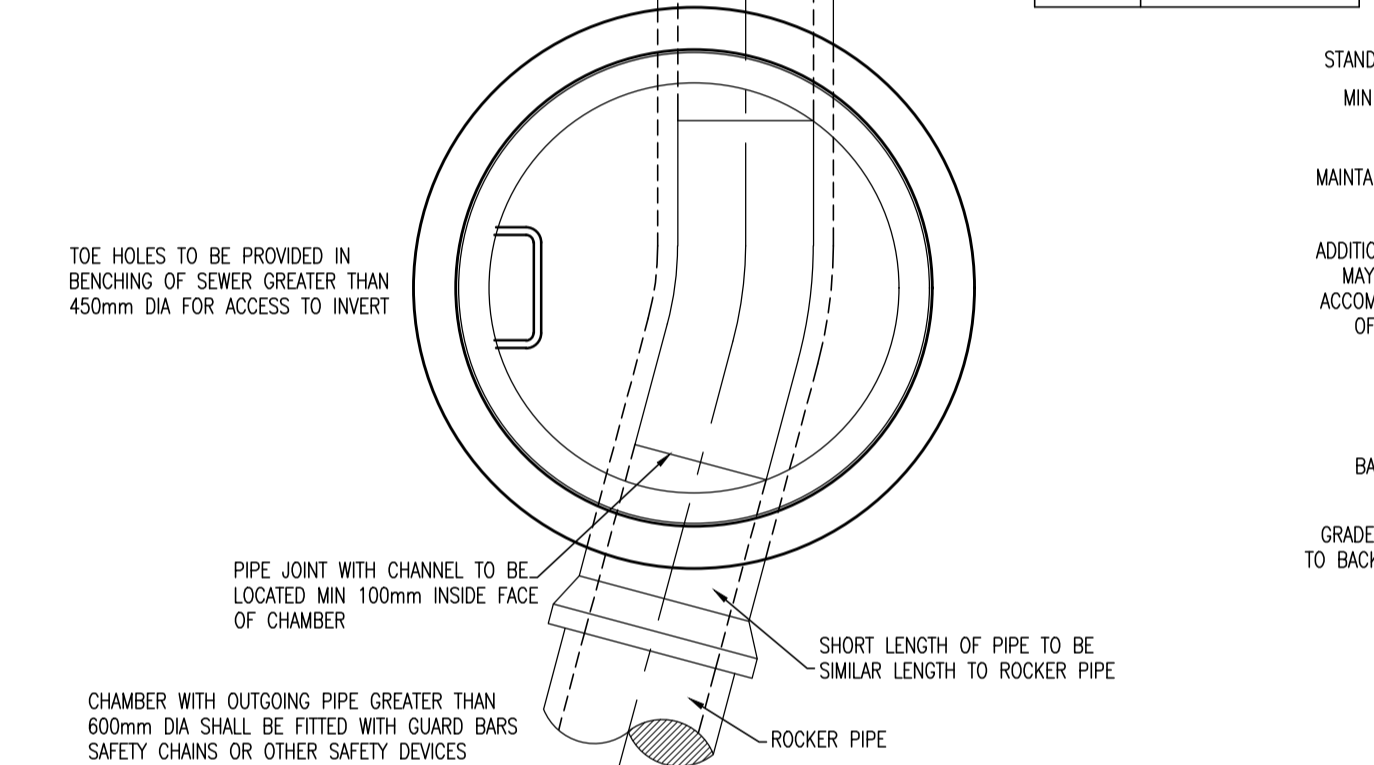
NOTE: ALL CONCRETE TO BE SULPHATE RESISTANT

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	CHAMBER SECTION DIAMETER (mm)
LESS THAN 375	1200 (1050 WHERE DEPTH TO SOFFIT IS 1.35m - 1.5m)
375 - 450	1350
450 - 700	1500
750 - 900	1800

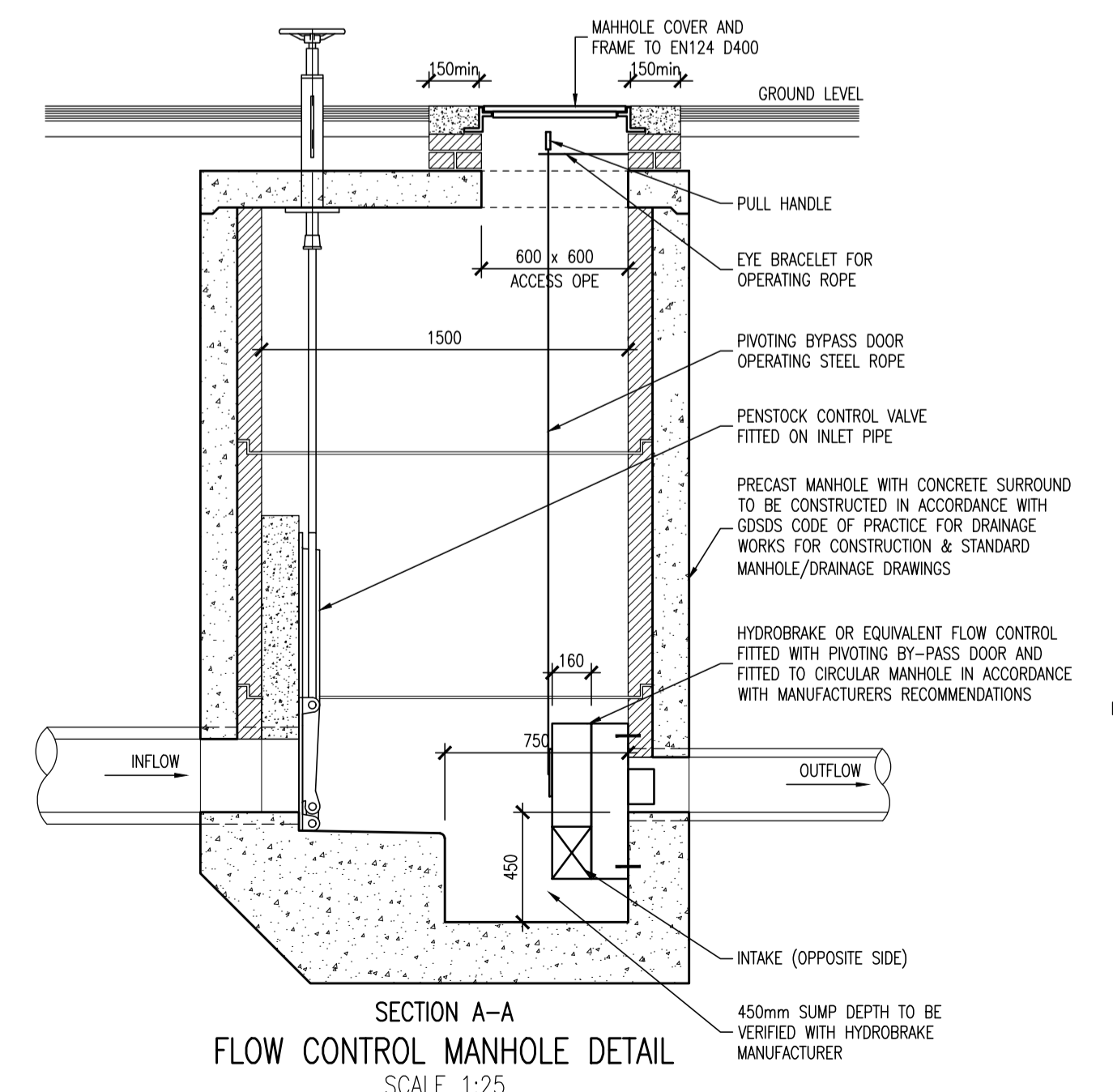
TABLE 1

PIPE SIZE	100% PASSING
UP TO 225mm	10mm SIEVE
225 TO 450mm	20mm SIEVE
ABOVE 450mm	25mm SIEVE

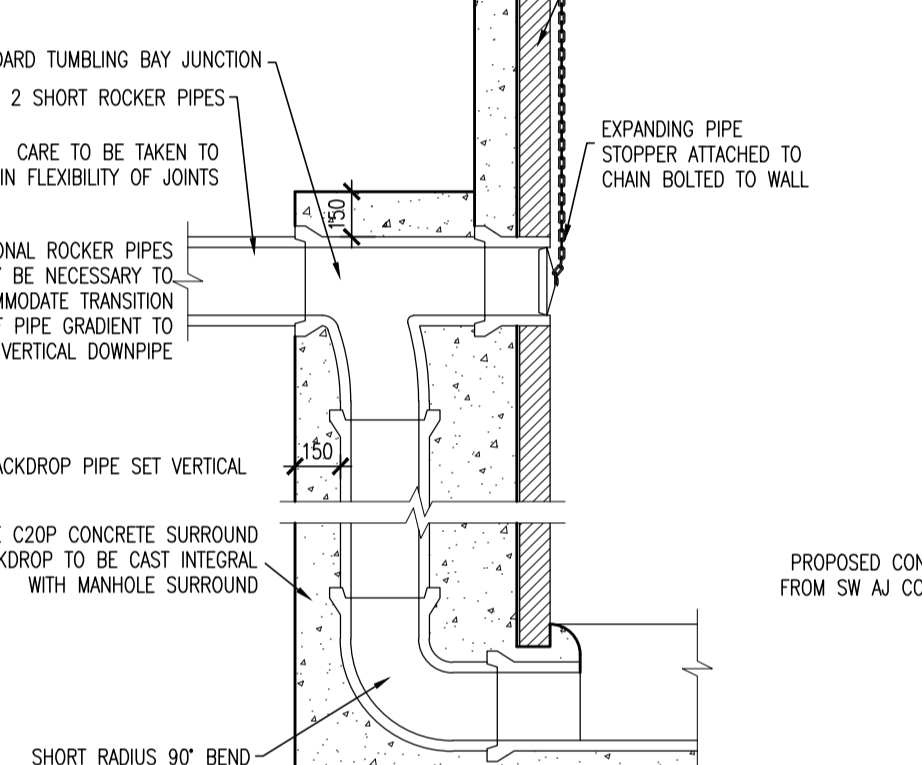
THE SAFETY POLICY OF INDIVIDUAL SEWERAGE UNDERTAKERS MAY REQUIRE A LARGER MINIMUM CLEAR OPENING INTO MANHOLES AND THE FITTING OF GUARD BARS, SAFETY CHAINS OR OTHER SAFETY DEVICES IN MANHOLES WITH OUTGOING PIPES OF LESS THAN 600mm DIA.



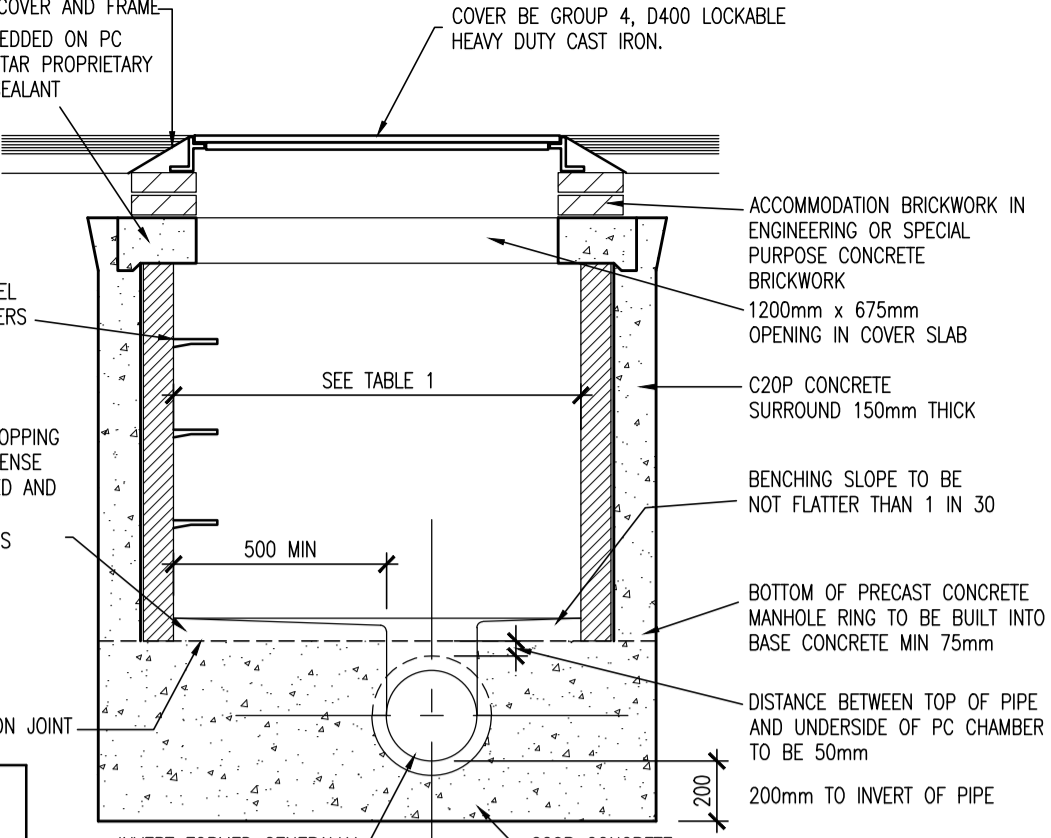
TYPICAL MANHOLE DETAIL - TYPE B
DEPTH TO SOFFIT 1.35 TO 3m
SCALE 1:25



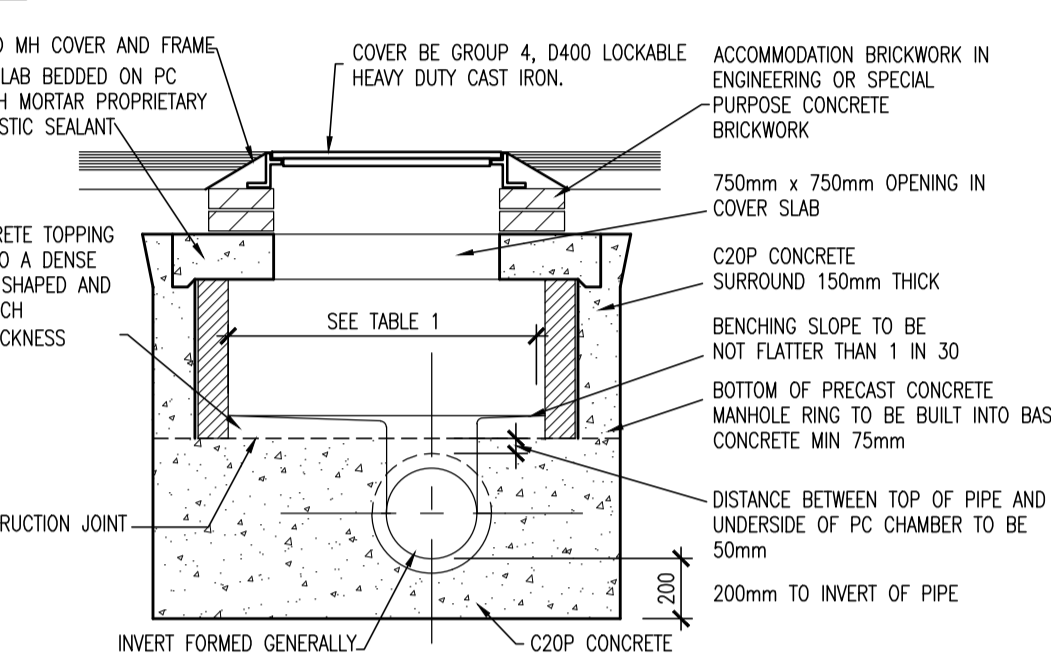
SECTION A-A
FLOW CONTROL MANHOLE DETAIL
SCALE 1:25



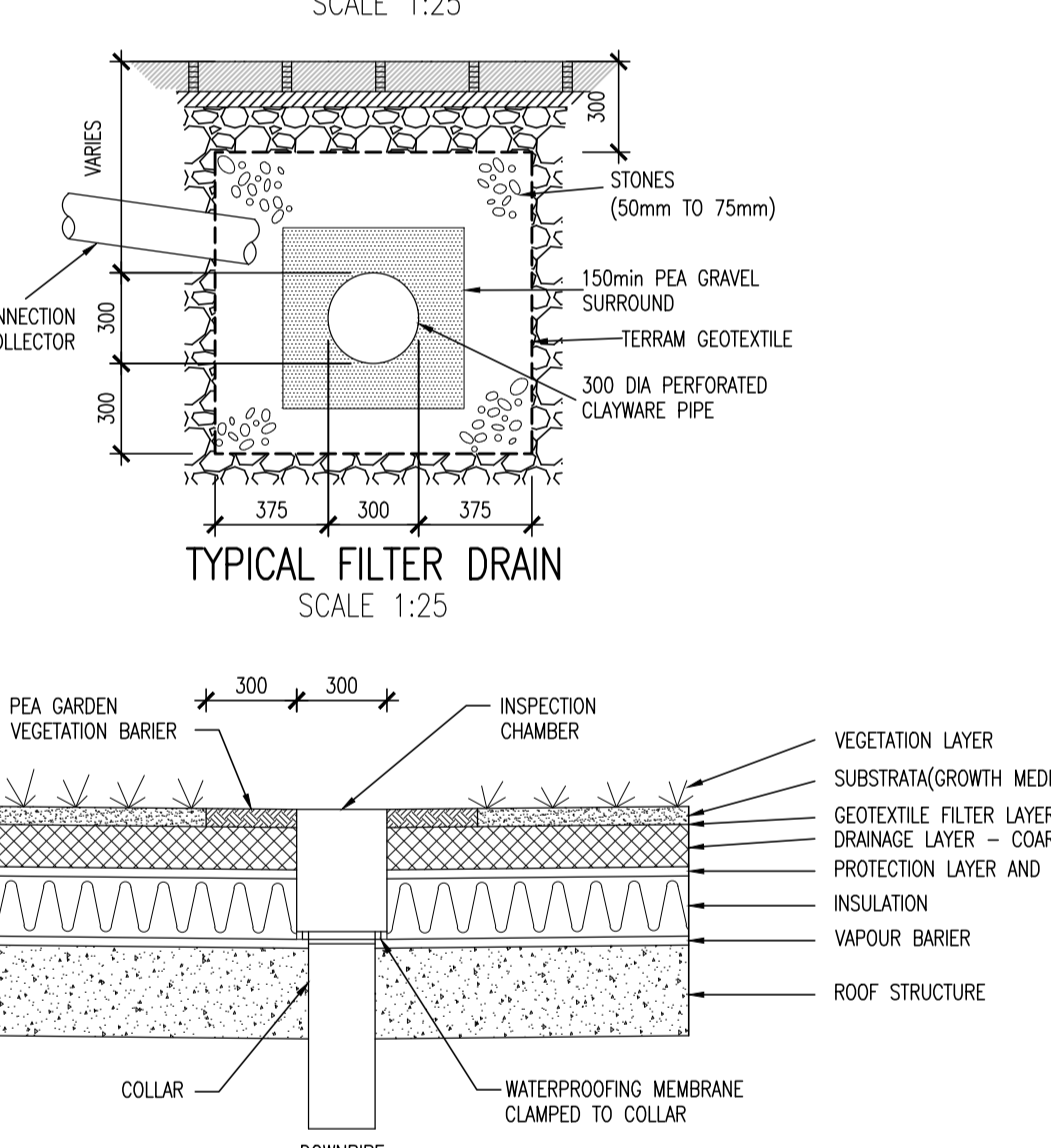
TYPICAL VERTICAL BACKDROP DETAIL
SCALE 1:25



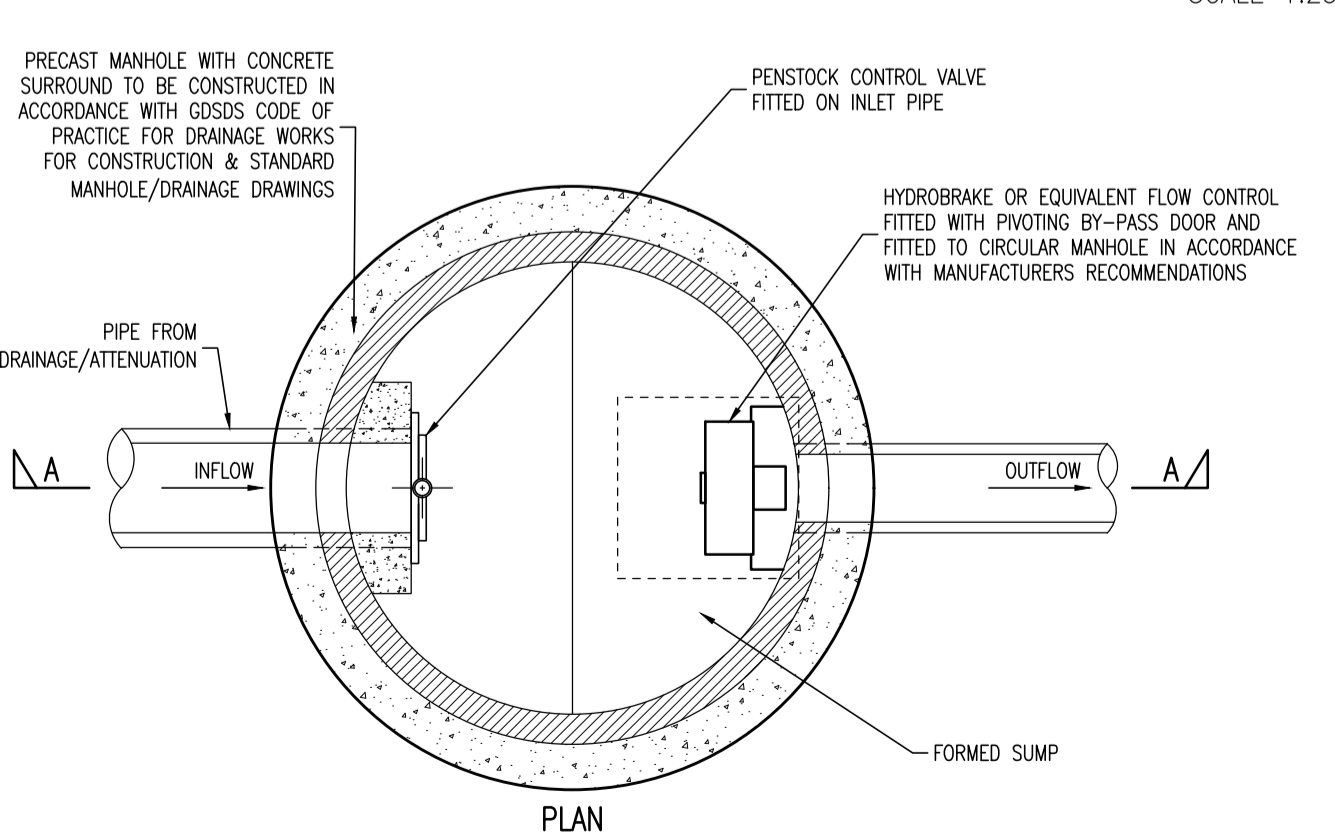
TYPICAL MANHOLE DETAIL - TYPE F
DEPTH TO SOFFIT LESS THAN 1.0m
SCALE 1:25



TYPICAL FILTER DRAIN
SCALE 1:25

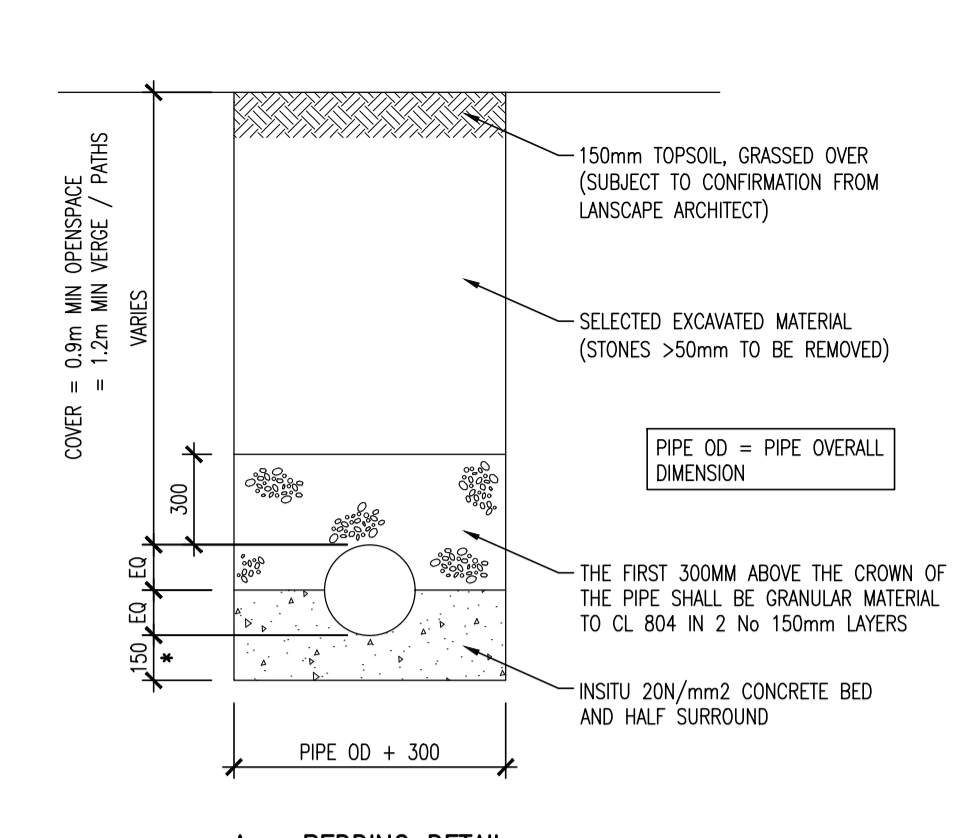


TYPICAL SECTION THROUGH GREEN ROOF
SCALE 1:25

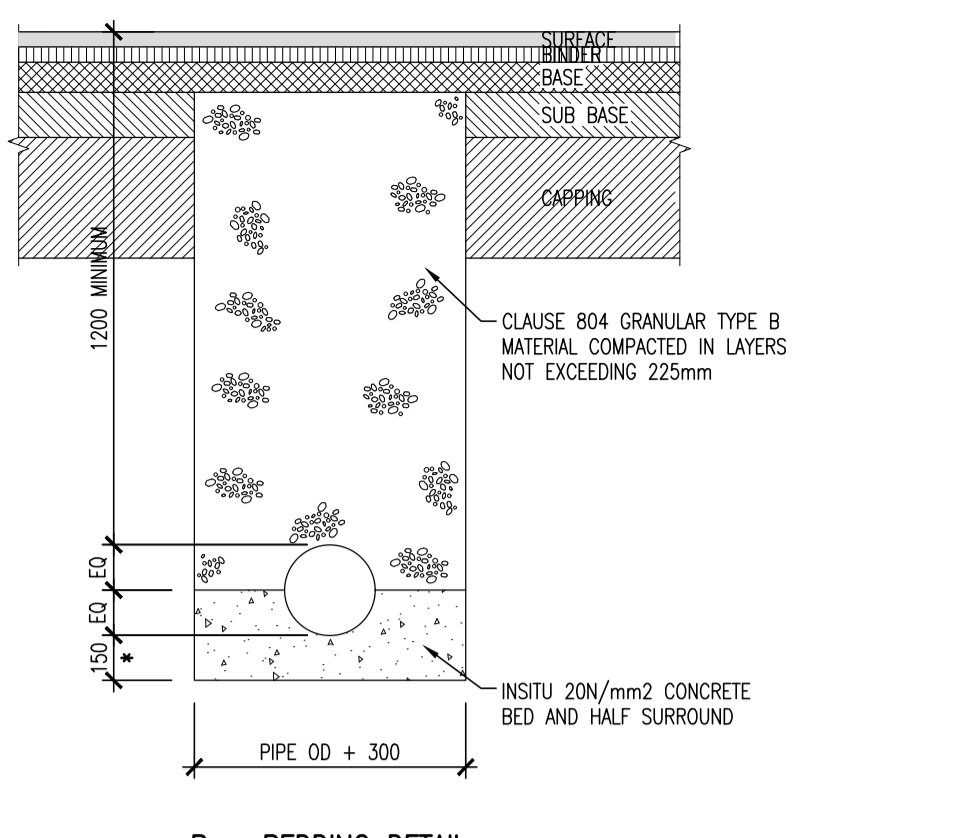


PLAN

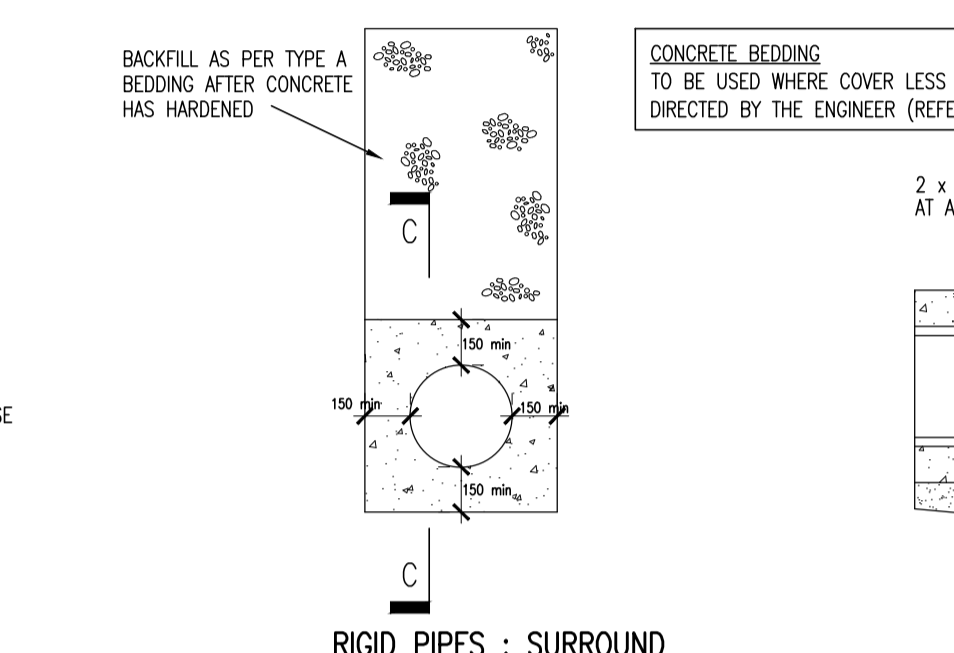
- LIST OF IRISH WATER WASTEWATER STANDARD DETAILS BROUGHT INTO THE CONTRACT
- STD-WW-02 TYPICAL LAYOUT FOR SEWER WITHIN NEW DEVELOPMENT
 - STD-WW-03 DRAIN AND SERVICE CONNECTION PIPEWORK
 - STD-WW-04 TYPICAL SEWER/SERVICE PIPE CONNECTION
 - STD-WW-05 TYPICAL SERVICE LAYOUT INDICATING SEPARATION DISTANCES
 - STD-WW-06 RESTRICTIONS ON TREES/SHRUBS PLANTING ADJACENT TO SEWERS
 - STD-WW-07 TRENCH BACKFILL & BEDDING
 - STD-WW-08 CONCRETE BED, HAUNCH & SURROUND TO WASTEWATER PIPES
 - STD-WW-09 BLOCKWORK MANHOLE (<450mm)
 - STD-WW-10 PRE-CAST CONCRETE MANHOLE
 - STD-WW-11 IN-SITU CONCRETE MANHOLE
 - STD-WW-12 BACKDROP MANHOLES
 - STD-WW-13 PRIVATE SIDE INSPECTION CHAMBER
 - STD-WW-14 THRUST BLOCKS FOR RISING MAINS
 - STD-WW-15 SCOUR VALVE CHAMBER (FOUL RISING MAIN <200mm)
 - STD-WW-16 SLUICE VALVE DETAILS FOR RISING MAINS DUCTILE IRON (D.I) PIPE (<200mm)(SHEET 1 OF 2)
 - STD-WW-17 SLUICE VALVE DETAILS FOR RISING MAIN POLYETHYLENE (P.E) PIPE (<200mm)(SHEET 2 OF 2)
 - STD-WW-18 AIR VALVE CHAMBER (FOUL RISING MAIN <200mm)
 - STD-WW-19 DUCT CHAMBER
 - STD-WW-20 EMERGENCY OVERFLOW STRUCTURE
 - STD-WW-21 TYPICAL DITCH/STREAM CROSSING FOR GRAVITY MAIN (SHEET 1 OF 2)
 - STD-WW-22 TYPICAL DITCH/STREAM CROSSING FOR RISING MAIN (SHEET 2 OF 2)
 - STD-WW-23 TYPICAL BRIDGE CROSSING FOR RISING MAIN (SHEET 1 OF 2)
 - STD-WW-24 TYPICAL BRIDGE CROSSING FOR RISING MAIN (SHEET 2 OF 2)
 - STD-WW-25 SECURITY GATE & FENCING
 - STD-WW-26 INDICATIVE PUMPING STATION LAYOUT
 - STD-WW-27 FLOW METER CHAMBER (FOUL RISING MAIN <200mm)
 - STD-WW-28 INDICATIVE SUBMERSIBLE PUMPING STATION
 - STD-WW-28A INDICATIVE PRE-CAST CONCRETE SUBMERSIBLE PUMPING STATION
 - STD-WW-29 RISING MAIN DISCHARGE MANHOLE
 - STD-WW-30 KIOSK TYPE 1 PUMPING STATION & WET KIOSK (SHEET 1 OF 2)
 - STD-WW-31 KIOSK TYPE 2 + 3 PUMPING STATION & WET KIOSK (SHEET 2 OF 2)
 - STD-WW-32 HARDSTANDING AREA PUMPING STATION (PERMEABLE & IMPERMEABLE)
 - STD-WW-33 LAMP BOLLARD & LAMP STANDARD
 - STD-WW-34 VENT STACK



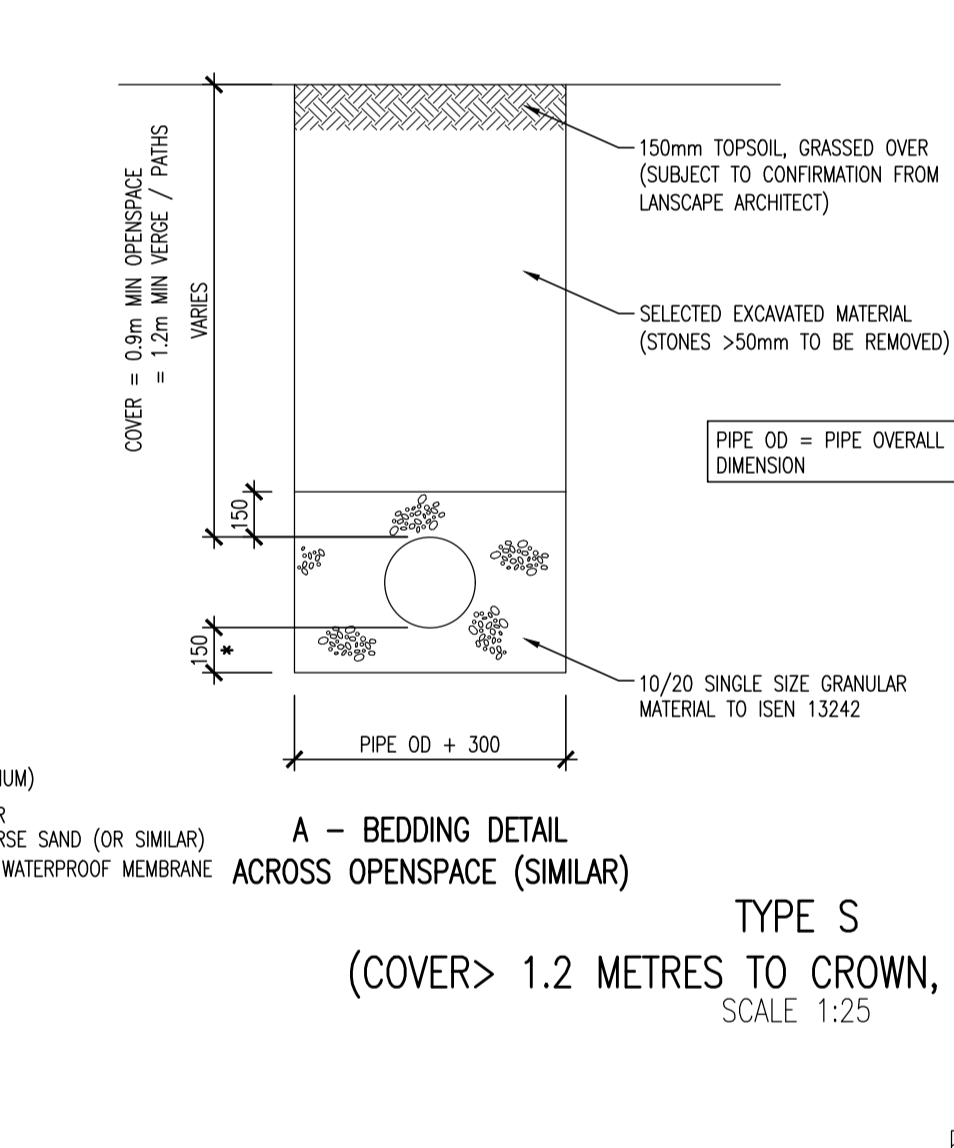
A - BEDDING DETAIL
ACROSS OPENSAPCE (SIMILAR)
TYPE A
(COVER > 1.2 METRES TO CROWN, RIGID PIPES)
SCALE 1:25



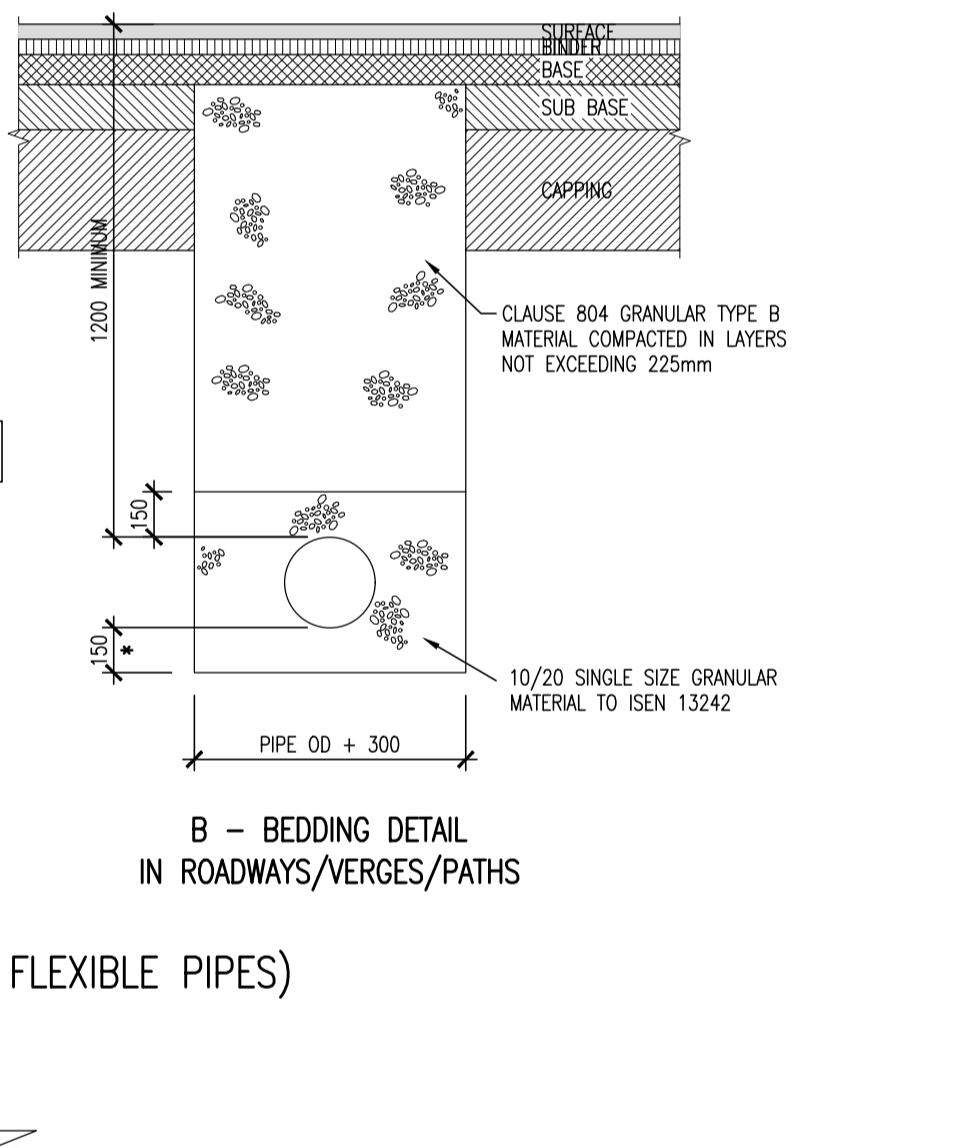
B - BEDDING DETAIL
IN ROADWAYS/VERGES/PATHS
TYPE Z
CONCRETE BEDDING/SURROUND (COVER 750mm - 1200mm)
SCALE 1:25



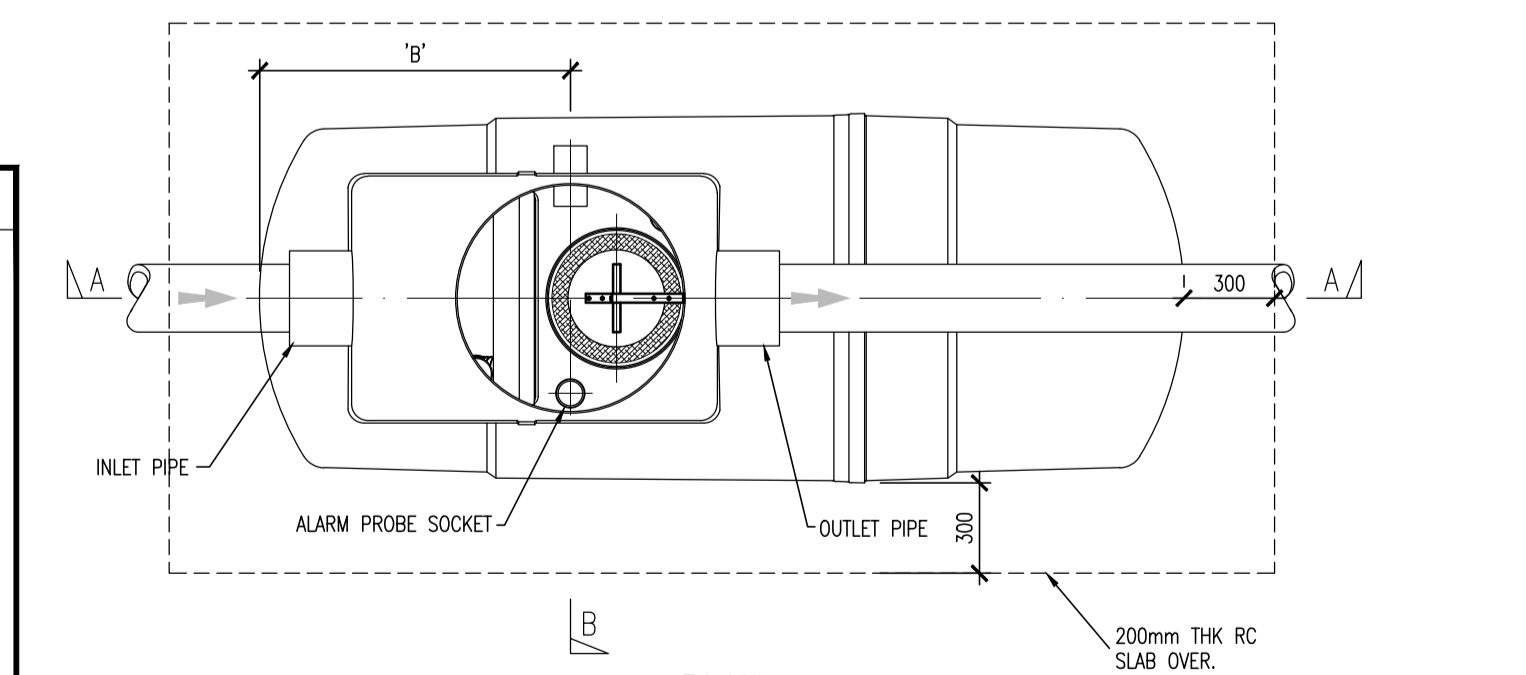
RIGID PIPES: SURROUND
TYPE Z
CONCRETE BEDDING/SURROUND (COVER 750mm - 1200mm)
SCALE 1:25



A - BEDDING DETAIL
ACROSS OPENSAPCE (SIMILAR)
TYPE S
(COVER > 1.2 METRES TO CROWN, FLEXIBLE PIPES)
SCALE 1:25



B - BEDDING DETAIL
IN ROADWAYS/VERGES/PATHS
TYPE S
(COVER > 1.2 METRES TO CROWN, FLEXIBLE PIPES)
SCALE 1:25



DIMENSIONS						
UNIT REF No.	NOMINAL FLOW	DM 'A'	DM 'B'	STD. PIPE	APPROX. EMPTY WEIGHT (KG)	FALL ACROSS UNIT
NSBD003	3 L/S	1765	850	160	145	100
NSBD004	4.5 L/S	1765	850	200	160	100
NSBD006	6 L/S	1765	850	200	160	100
NSBD008	8 L/S	3065	1560	250	210	100
NSBD010	10 L/S	3065	1560	315	210	100
NSBD012	12 L/S	3915	1560	315	240	100
NSBD015	15 L/S	3915	1560	315	240	100

NET FOR CONSTRUCTION

- NOTES
- ALL WORKS TO COMPLY WITH THE CURRENT BUILDING REGULATIONS, WATER BYELAWS AND LOCAL AUTHORITY REQUIREMENTS.
 - ALL SEWERS SHALL BE PRESSURE TESTED PRIOR TO BACKFILLING
 - TYPE 1 GRANULAR MATERIAL: BROKEN STONE OR GRAVEL TO PASS 10mm SIEVE AND BE RETAINED ON 5mm SIEVE.
 - TYPE 2 GRANULAR MATERIAL: BROKEN STONE OR GRAVEL TO PASS 10mm - 25mm SIEVE, ACCORDING TO PIPE SIZE, (SEE TABLE) AND BE RETAINED ON 5mm SIEVE.
 - TYPE 3 SELECTED FILL: UNIFORM READILY COMPACTED MATERIAL FREE FROM TREE ROOTS, VEGETABLE MATTER, BUILDING DEBRIS, AND FROZEN SOIL AND EXCLUDING CLAY LUMPS RETAINED ON A 75mm SIEVE AND STONES RETAINED ON A 37.5mm SIEVE.
 - RIGID PIPES SHALL MEAN CAST OR SPUN IRON, CONCRETE OR CLAY.

Rev	Date	Description	By	Chk
P	01/10/20	PLANNING (ABP)	PTC	GD
PP4	09/10/19	PLANNING (ABP)	SM	GD
PP3	13/09/19	ISSUED TO IRISH WATER	SM	GD
PP2	29/04/19	PRE-PLANNING MTG (ABP)	SM	GD
PP1	20/11/18	PRE-PLANNING TO SDCC	PTC	GD

PLANNING

gdcl
CONSULTING ENGINEERS

Scope House, Perrystown, Dublin D12 K8PP
75 Shelton Street, Covent Garden, London WC2H 9JQ
www.gdalayconsulting.com

PROJECT
Cookstown Cross, Fourth Avenue
Cookstown Industrial Estate

CLIENT
Steelworks Property Developments Limited

DRAWING TITLE
Typical Construction details
Sheet 2

dm. by: PTC	date: JUL 16	scale: As Shown
drawing size: A1	chk: TM	app: GD
job no: P-1606	drg. no: P-1606-C-105	rev: P