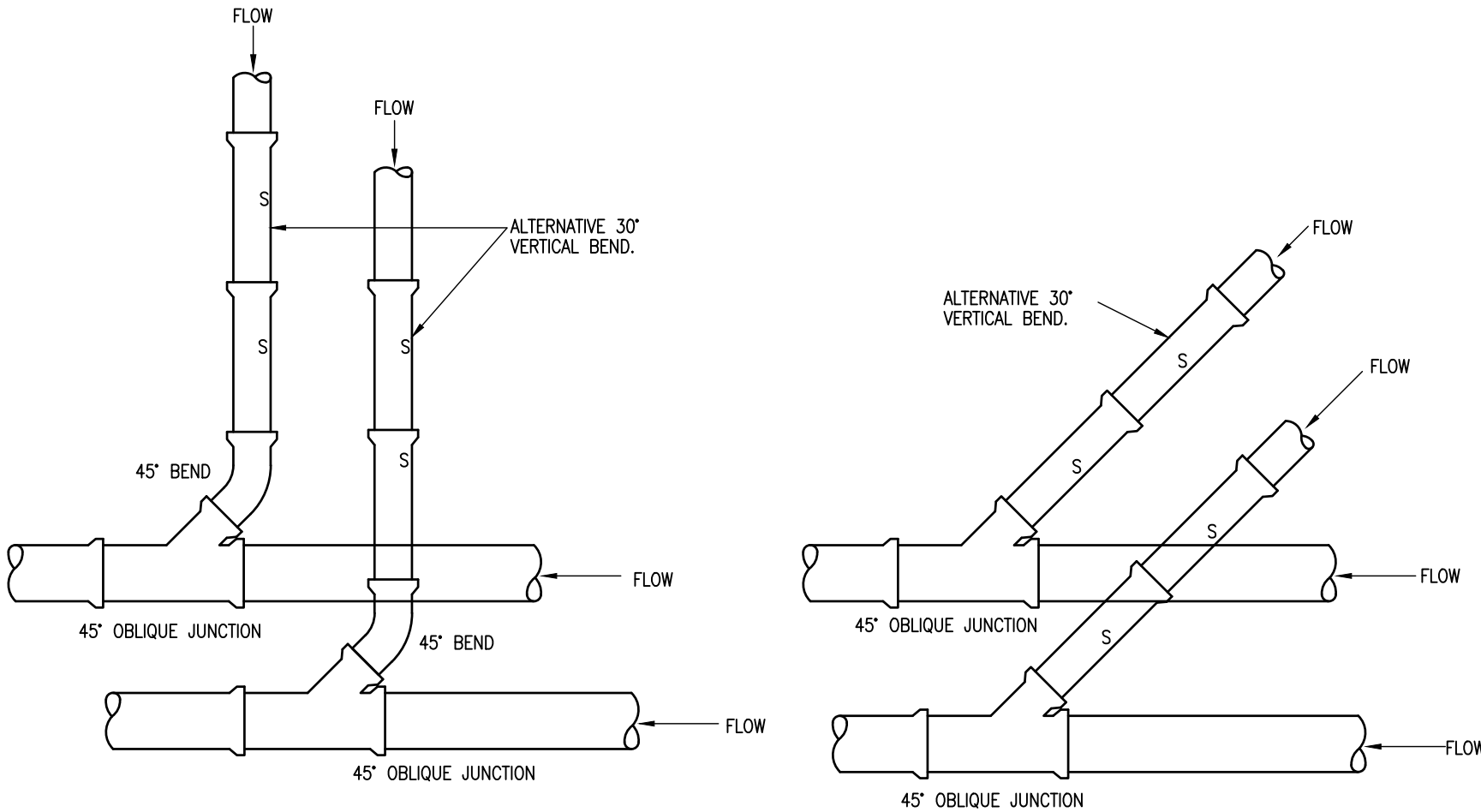


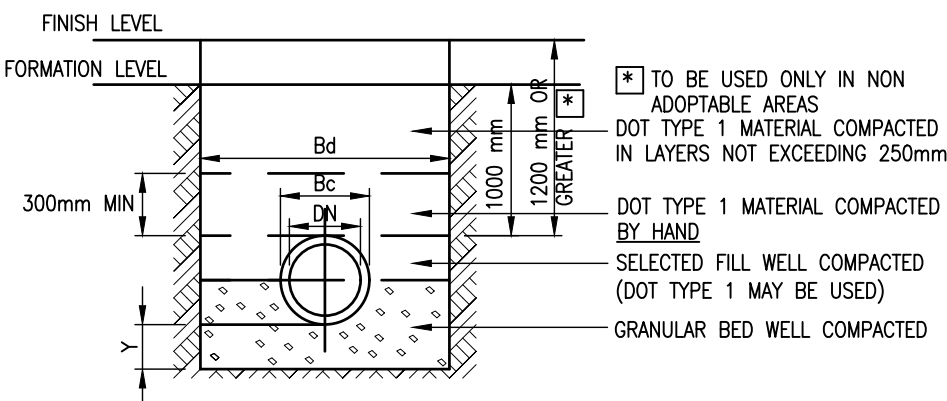
SCHEDULE OF HAMPSHIRE COUNTY COUNCIL STANDARD DETAILS

DRAWING NUMBER	REVISION	DRAWING TITLE	STANDARD DETAIL
HCC11/D/010	-	FILTER DRAIN DETAILS	TYPE 1B
HCC11/D/015	-	GULLY TYPE 1	-
HCC11/D/040	-	CATCHPIT TYPE C1A&C1B, C2A&C2B AND C1C&C2C	-
HCC11/D/045	-	MANHOLE TYPES M2Z, M2Y, M2X & M2W (PRECAST CONCRETE, DEPTH EXCEEDING 1.5m BUT NOT 3.0m)	M2Z-M2Y
HCC11/D/060	-	MANHOLE TYPES M4A & M4B (BRICK, DEPTH LESS THAN 1.0m)	M4A
HCC11/D/065	-	MANHOLE TYPE M5 (PRECAST CONCRETE, DEPTH EXCEEDING 1.0m BUT NOT 1.5m)	M5
HCC11/D/085	-	HEADWALL TYPE 1	-
HCC11/D/095	-	HEADWALL TYPE 3	-
HCC11/D/115	-	DITCH TYPE 1,2 AND 3	-
HCC11/D/125	-	DRAINAGE GRIPS	CONCRETE LINED DRAINAGE GRIP WITH KERBS



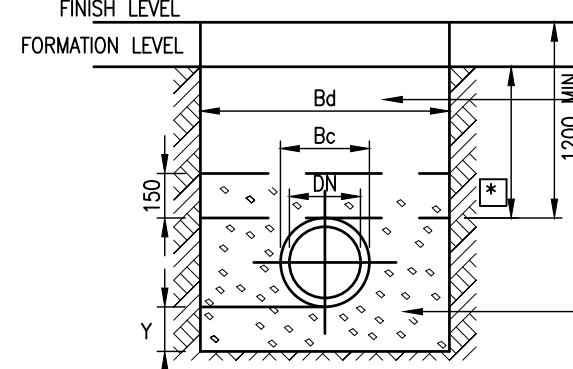
BRANCH CONNECTIONS

BRANCH CONNECTIONS TO BE 150mm MINIMUM DIAMETER. S= SPECIAL SHORT LENGTH PIPE 600mm LONG.

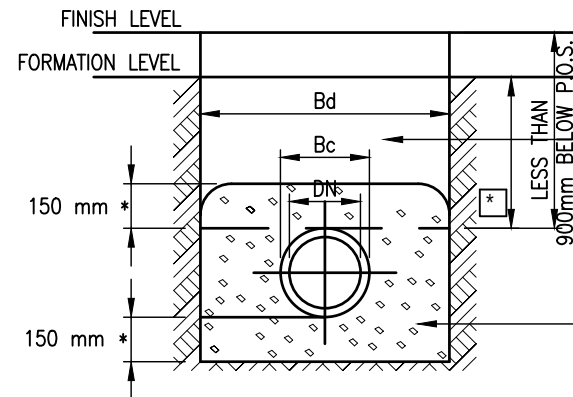


NOMINAL INTERNAL DIA. DN (mm)	ASSUMED EXTERNAL DIA. Bc (mm)	ASSUMED MAX. PERMISSIBLE TRENCH WIDTH Bd (mm)	DIMENSION 'Y' FOR UNIFORM SOILS (mm)
100	130	600	100
150	190	600	100
225	280	700	100
300	388	800	125
375	500	1100	125
450	500	1200	125
525	670	1200	125
600	770	1400	125

CLASS B GRANULAR BED PRIVATE



CLASS S GRANULAR SURROUND ADOPTABLE AND PRIVATE



CLASS Z CONCRETE BED & SURROUND (C.B.S.) ADOPTABLE AND PRIVATE

NOTES

- 1) FOR PIPES EXCEEDING 600 mm DIA REFER TO ENGINEER
- 2) IN WET OR SOFT GROUND SEEK GUIDANCE FROM ENGINEER
- 3)THE BEDDINGS MAY BE MODIFIED FOR CERTAIN SUB-SOIL CONDITIONS AT THE ENGINEERS DISCRETION
- 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL PROTECTION IN AREAS SUBJECT TO LOADS FROM SITE TRAFFIC. THE CONTRACTOR SHALL IDENTIFY THESE ZONES AND RESTRICT TRAFFIC ELSEWHERE
- 5) SEE ALSO EN252
- 6) FOR GREATER TRENCH WIDTHS SEEK GUIDANCE FROM ENGINEER

DRAIN BEDDING DETAIL

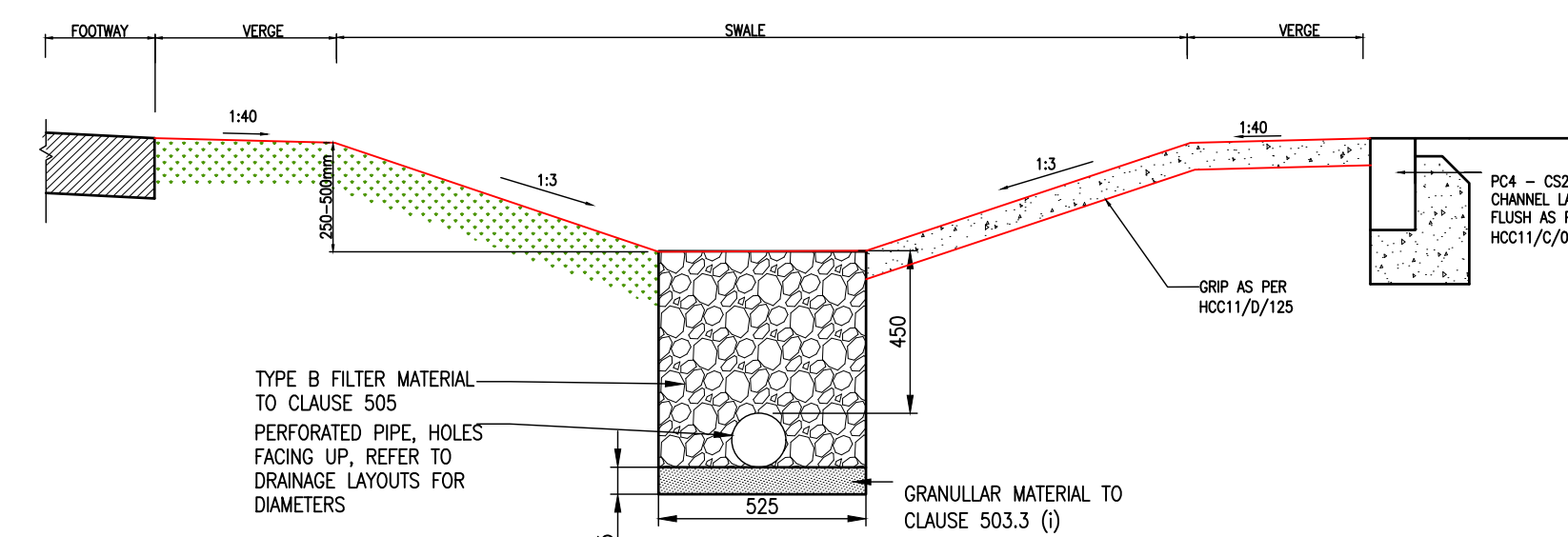
DIMENSION Y =

IN SOILS THAT PERMIT AN EVEN TRENCH BOTTOM TO BE EXCAVATED Y=1/6 Bc OR 150 mm WHICH EVER IS GREATER, BUT NOT LESS THAN 50 mm UNDER COLLARS

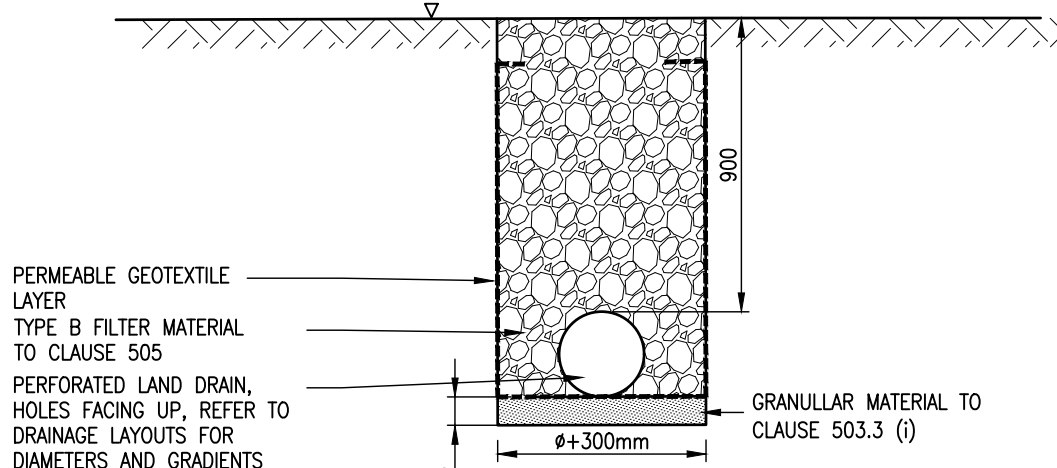
IN ROCK, CONCRETE OR MIXED SOILS CONTAINING ROCK BANDS, BOULDERS, LARGE FLINTS OR STONES OR OTHER IRREGULAR HARD SPOTS THAT RESULT IN UNEVEN TRENCH BOTTOM Y=1/4 Bc OR 200 mm WHICH EVER IS THE GREATER, BUT NOT LESS THAN 50mm UNDER COLLARS

NOTES

- 1) FOR PIPES EXCEEDING 600 mm DIA REFER TO ENGINEER
- 2) IN WET OR SOFT GROUND SEEK GUIDANCE FROM ENGINEER
- 3)THE BEDDINGS MAY BE MODIFIED FOR CERTAIN SUB-SOIL CONDITIONS AT THE ENGINEERS DISCRETION
- 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL PROTECTION IN AREAS SUBJECT TO LOADS FROM SITE TRAFFIC. THE CONTRACTOR SHALL IDENTIFY THESE ZONES AND RESTRICT TRAFFIC ELSEWHERE
- 5) SEE ALSO EN252
- 6) FOR GREATER TRENCH WIDTHS SEEK GUIDANCE FROM ENGINEER

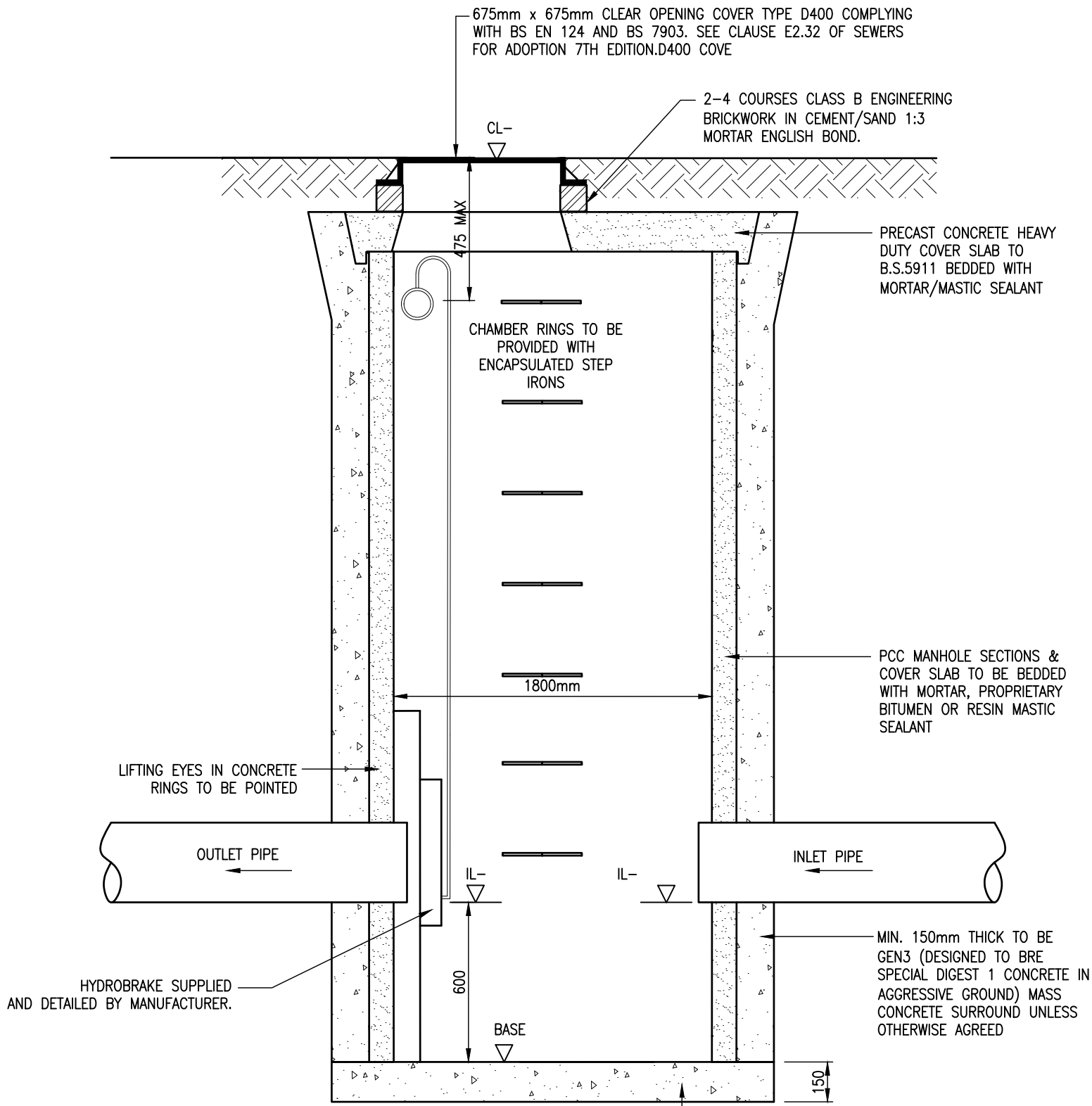


ROAD SALLOW SECTION (NTS)



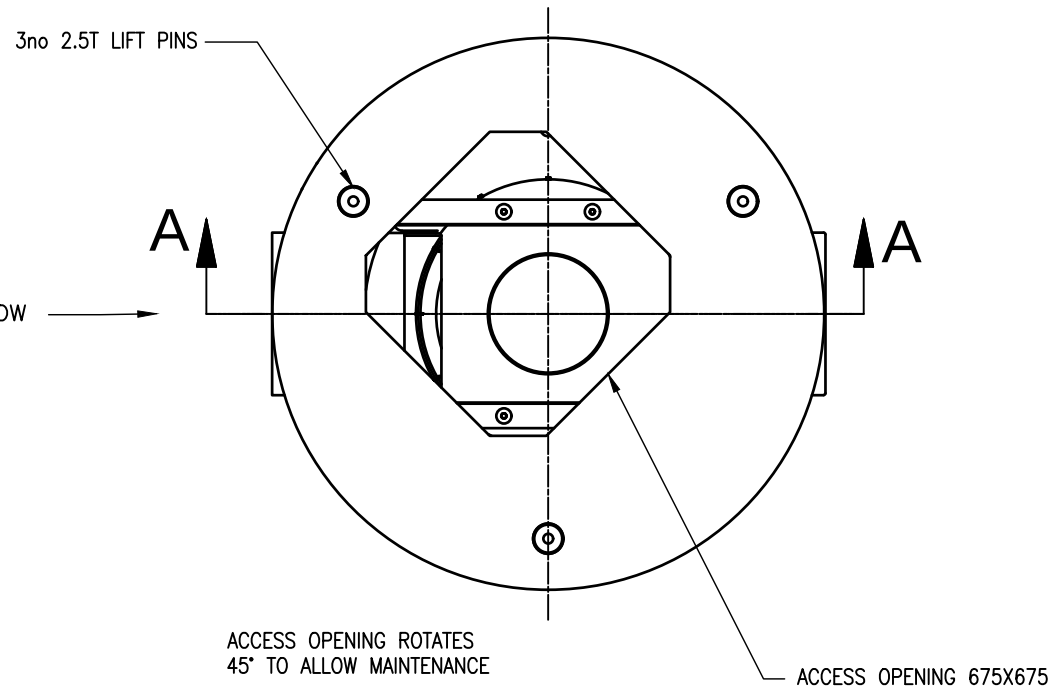
FILTER DRAIN TYPE 1B HCC11/D/010

SCALE 1:20



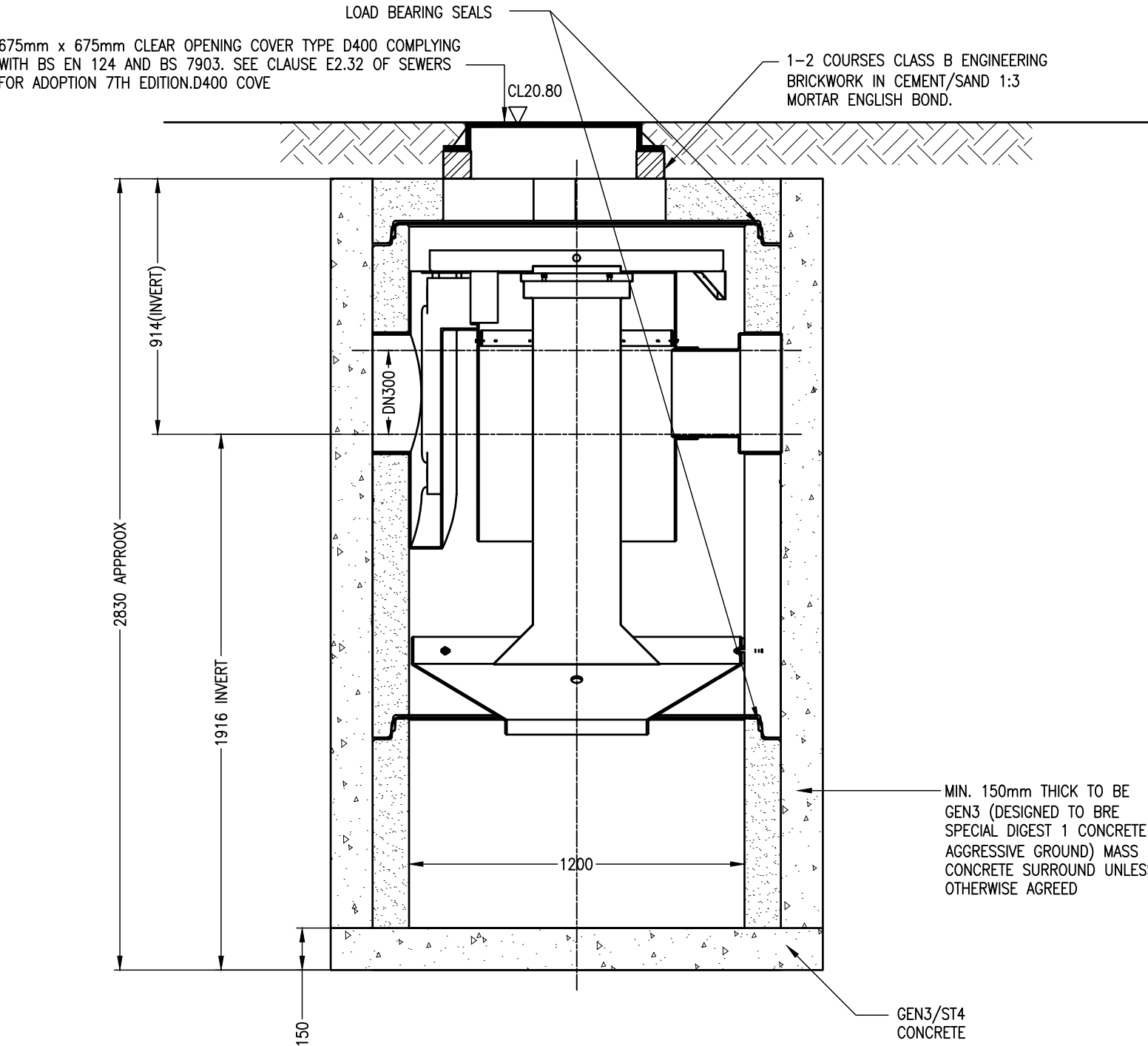
NOTES

1. ROCKER PIPES 600mm LONG FOR 100 TO 450 DIA PIPEWORK (1000mm LONG UP TO 750 DIA) ON OUTLET AND EACH ENTRY STARTING 150mm FROM CONCRETE SURROUND.
2. FOR CHAMBERS DEEPER THAN 3000mm STEP IRONS TO BE REPLACED WITH GALVANISED LADDER TO B.S.4211 AND 729.



TYPICAL DOWNSTREAM DEFENDER DETAILS

SCALE 1:20



SECTION A-A

NOTES

- 1 THIS DRAWING IS COPYRIGHT.
- 2 THE CONTRACTOR AND HIS SUBCONTRACTOR ARE TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO MAKING SHOP DRAWINGS OR COMMENCING MANUFACTURE.
- 3 DO NOT SCALE THIS DRAWING. THE CONTRACTOR IS TO BRING TO THE NOTICE OF THE ENGINEER ANY DISCREPANCIES CONTAINED IN THIS DRAWING PRIOR TO WORK COMMENCEMENT.
- 4 ALL 150mm AND 225mm DIAMETER PIPES TO BE EXTRA STRENGTH VITRIFIED CLAY PIPES (SEE NOTE 15).
- 5 ALL PIPES OF 300mm DIAMETER OR GREATER TO BE CLASS M CONCRETE.
- 6 ALL PIPE MATERIALS TO BE CONSISTENT BETWEEN MANHOLES.
- 7 ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH DESIGN AND CONSTRUCTION GUIDANCE(DCG)/SEWER FOR ADOPTION 7TH, HAMPSHIRE COUNTY COUNCIL STANDARDS (FOR HIGHWAY DRAINAGE ONLY) AND THE SPECIFICATION FOR HIGHWAY WORKS 1998 AND ALL SUBSEQUENT AMENDMENTS. WHERE THERE IS CONFLICT BETWEEN THESE DOCUMENTS THE MATTER SHALL BE REFERRED TO THE ENGINEER.
- 8 FOR CONSTRUCTION DETAILS OF MANHOLES AND SEWERS REFER TO DESIGN AND CONSTRUCTION GUIDANCE/SEWERS FOR ADOPTION 7TH, HCC STANDARD DETAILS(FOR SEWERS ADOPTED BY HCC HIGHWAYS) AND UNDERTAKERS STANDARD DETAILS WHICH CAN BE OBTAINED FROM THE LOCAL OFFICE FOR SEWERS ADOPTED BY SOUTHERN WATER
- 9 INVERT LEVELS OF EXISTING SEWERS TO BE CONFIRMED ON SITE BEFORE ANY SEWER WORK UNDERTAKEN. ANY DISCREPANCIES FOUND SHOULD BE NOTIFIED TO ENGINEERS.
- 10 WHERE SEWERS HAVE LESS THAN 1.2m OF COVER UNDER ROADS AND 0.9m COVER ELSEWHERE PIPES ARE TO HAVE A 150mm CONCRETE BED AND SURROUND.
- 11 PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL, TO TABLE 11 OF APPROVED DOCUMENT H1 OF THE BUILDING REGULATIONS 2010.
- 12 ALL BELOW GROUND DRAINAGE TO BE 150mmØ UNLESS OTHERWISE INDICATED WITH A MIN. GRADIENT AS FOLLOWS:-

S.W : 150mm Dia. 1:150
- 13 ALL ADOPTABLE DRAINAGE MATERIALS SHOULD COMPLY WITH THE REQUIREMENTS OF PART E CIVIL ENGINEERING SPECIFICATION INCLUDED WITH CGD/SEWERS FOR ADOPTION 7TH EDITION WHICH IS DRAWN FROM CESWI 7TH EDITION BUT IS NOT A FULL REPRODUCTION AND OR HAMPSHIRE COUNTY COUNCIL REQUIREMENTS.
- 14 JETTING OF NEW DRAINAGE RUNS MUST BE CARRIED OUT AT END OF CONTRACT, IN ORDER TO ENSURE ALL NEW PIPE-WORK IS FREE OF DEBRIS AND FREE RUNNING

HEALTH & SAFETY:

ALL WORKS TO BE CARRIED OUT BY A CONTRACTOR COMPETENT TO UNDERTAKE THE CONSTRUCTION OF WORKS AS INDICATED ON THIS DRAWING. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE JOB SPECIFIC RISK ASSESSMENT. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

DESIGN PENDING
APPROVAL UNDER
S38

TENDER ISSUE.		06/10/22	PN
Rev.	Description	Date.	Initial.
Drawing Status:		TENDER	
RS REUBY & STAGG LTD.			
CONSULTING CIVIL & STRUCTURAL ENGINEERS			
Dewey House 55 High Street, Ringwood Hampshire BH24 1AE T: 01425 484400 F: 01425 484409 Email: admin@reuby-stagg.co.uk			
Site:	ONE HORTON HEATH		
Address:	SEGMENT 3		
Org Title:	S38 DRAINAGE CONSTRUCTION DETAILS		
NORTHERN SECTION			
Scale:	AS SHOWN	Page Size: A1	Date: JAN 22
Drawn:	PN	Checked:	MPD
Revision:			
Drawing No:	10413-SEG1-370		
		T1	