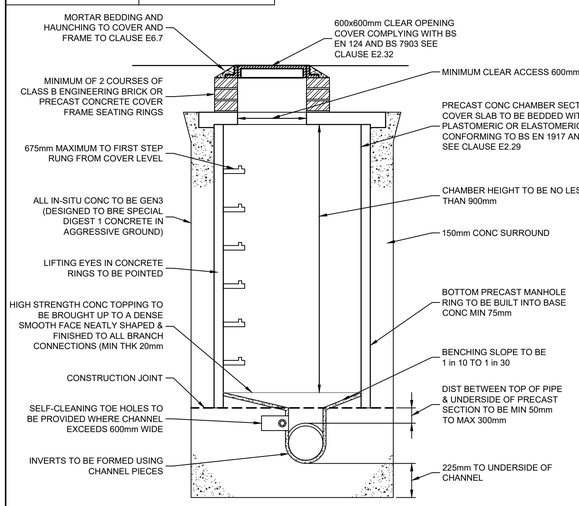
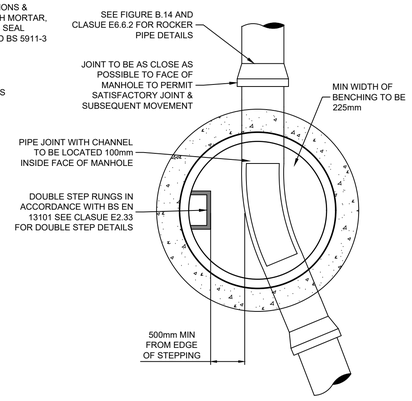
PROJECT No. 22315 | DRG No. 502

DO NOT SCALE



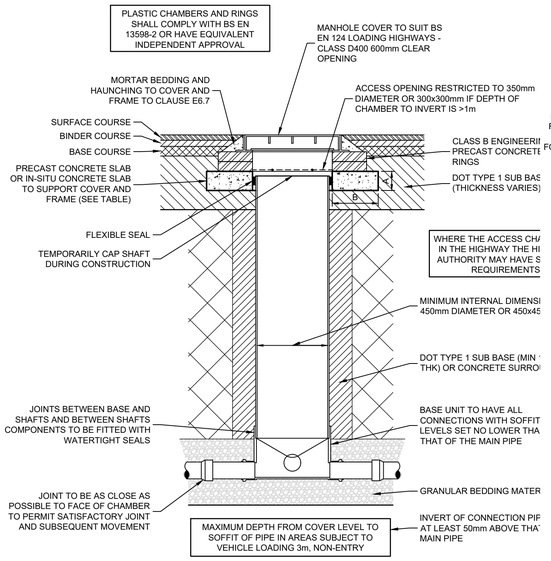
MANHOLE SECTION



SECTIONAL PLAN

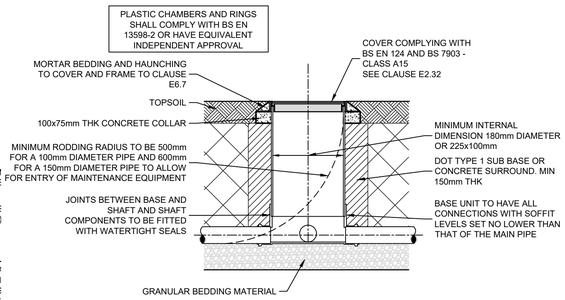
MANHOLE DETAIL - TYPE 2

NTS



TYPICAL INSPECTION CHAMBER DETAIL - TYPE 3

(FLEXIBLE MATERIAL)

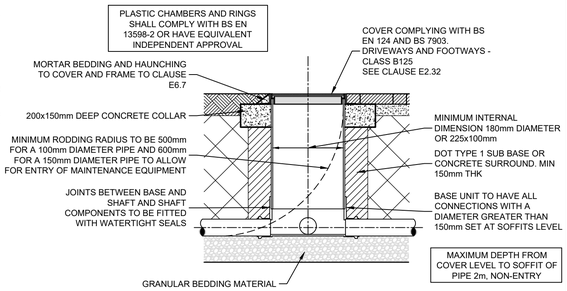


SITED IN DOMESTIC GARDENS

TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4

(FLEXIBLE MATERIAL)

1:20

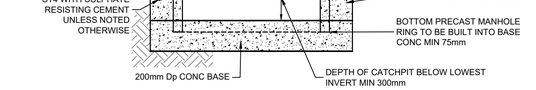


SITED IN DRIVEWAYS/PAVED AREAS

TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4

(FLEXIBLE MATERIAL)

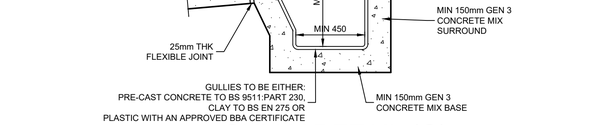
1:20



SECTION

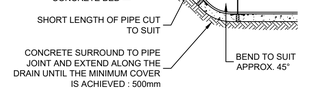
TYP. CATCHPIT DETAIL

1:20



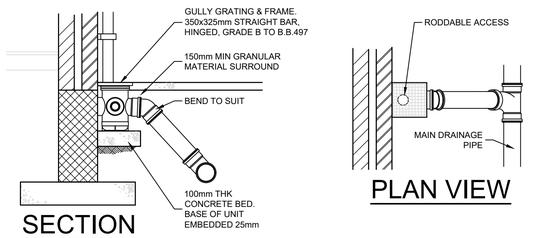
GULLY DETAIL (G)

1:20



RODDING EYE DETAIL

NTS



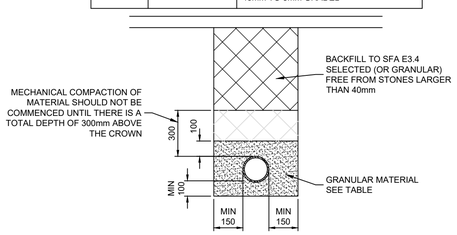
SECTION

PLAN VIEW

BOTTLE GULLY DETAIL- (RWP)

1:20

PIPE NOM. SIZE (DN)	NOM. MAX STONE SIZE (mm)	SUITABLE MATERIAL
100	10	10mm NOMINAL SINGLE SIZE
150	16	10 OR 14mm NOMINAL SINGLE SIZE OR 14mm TO 5mm GRADED
300	20	10, 14 OR 20mm NOMINAL SINGLE SIZE OR 20mm TO 5mm GRADED
550	20	14 OR 20mm NOMINAL SINGLE SIZE OR 20mm TO 5mm GRADED
over 550	40	14, 20 OR 40mm NOMINAL SINGLE SIZE OR 40mm TO 5mm GRADED



CLASS S BED & SURROUND

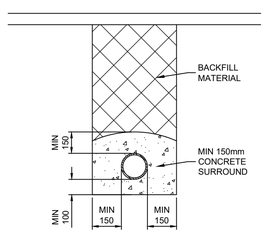
NTS

CLASS Z TO BE USED WHEN COVER IS LESS THAN:

GARDENS AND PATHS (IF PIPEWORK ADOPTABLE) FOR DOMESTIC, SEE DETAIL FOR SHALLOW DOMESTIC DRAIN	0.35m
VEHICLES ≤ 7.5t	0.50m
VEHICLES > **7.5t (RESTRICTED ACCESS)**	0.90m
AGRICULTURAL AND PUBLIC SPACES	0.90m
HIGHWAYS AND UNRESTRICTED ACCESS	1.20m

CONCRETE SURROUND IN ACCORDANCE WITH CLAUSE 503.3 (iii) OF THE SPECIFICATION FOR HIGHWAY WORKS (S.H.W.).

CONCRETE TO BE ST4 IN ACCORDANCE WITH CLAUSE 2602 OF THE SPECIFICATION FOR HIGHWAY WORKS (S.H.W)



CLASS Z BED & SURROUND

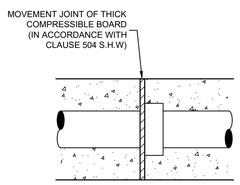
NTS

1. CONCRETE SURROUND TO DRAIN TO BE FLEXIBLY JOINTED AT EVERY JOINT NOT WITHSTANDING THE ABOVE, MAXIMUM SPACING OF FLEXIBLE JOINT TO BE 3.0m
2. TO MAINTAIN THE FLEXIBILITY OF CONCRETE SURROUNDED DRAINS THE CONCRETE SHALL BE KEPT CLEAR OF THE JOINT BY PLACING 'FLEXCELL' OR EQUIVALENT APPROVED MATERIAL.

   FOR PIPES >300mm Ø PLACE 2No. LAYERS OF 18mm THICK FLEXCELL BETWEEN THE SPIGOT OF EACH IN SUCH A MANNER AS TO ALLOW THE JOINT FULL AXIAL AND ANGULAR MOVEMENT.

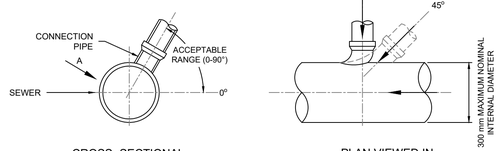
   FOR PIPES <300mm Ø PLACE 1No. LAYER, 18mm THICK.

   THE FLEXCELL SHALL BE PLACED IN A VERTICAL POSITION AND COVER THE CROSS SECTIONAL AREA OF CONCRETE BED AND SURROUND TO EACH JOINT.



JOINTS FOR CONCRETE ENCASED PIPES

NTS



CROSS- SECTIONAL VIEW OF SEWER

PLAN VIEWED IN DIRECTION OF ARROW-A

CONNECTIONS TO SEWER

1:10

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S, ENGINEER'S AND OTHER SPECIALISTS' DRAWINGS.
2. PLEASE REFER TO DATRYS DRAWING 22315/501 FOR DRAINAGE LAYOUT
3. ALL CONCRETE SHALL BE GEN3 WITH SULPHATE RESISTING IN ACCORDANCE WITH BS8500 U.N.O.
4. ALL GRAVITY PVC-U PIPEWORK TO BE TO BS EN 13598-1:2010 OR BS EN 1401-1:2009 WHERE RELEVANT UNLESS NOTED OTHERWISE
5. DRAWING BASED ON USE OF ACCESS SYSTEMS BY HEPWORTH DRAINAGE (TEL: 08704435551). CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURERS INSTALLATION INSTRUCTIONS. USE OF SIMILAR CHAMBERS BY OTHER MANUFACTURERS OF SIMILAR QUALITY IS ACCEPTABLE
6. CLAUSES (e.g E2.32) REFER TO SEWER FOR ADOPTION 7 OR CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY

NOTES FOR PIPE BEDDING & SURROUND

1. BACKFILLING TO PIPE TRENCHES BENEATH ROADS, CAR PARKING AND STRUCTURES TO BE D.O.T. TYPE 1 GRANULAR MATERIAL UP TO FORMATION LEVEL FROM THE TOP OF THE SPECIFIED PIPE SURROUND (WELL COMPACTED IN 150mm MAX LAYERS).
2. OPTIMUM TRENCH WIDTH = PIPE+300mm. CONTRACTOR TO ENSURE TRENCH WALLS ARE SUITABLY PROPPED
3. BACKFILL MUST NOT BE PLACED ON CONCRETE BEDDING OR SURROUND UNTIL THE CONCRETE COMPRESSIVE STRENGTH HAS REACHED 15N/mm²
4. BRICKS OR BLOCKS MUST NOT BE PLACED IN THE BEDDING MORTAR FOR SETTING THE PIPES TO LEVEL
5. ALL ROCKER PIPE LENGTHS : 600mm
6. MAX DISTANCE FROM FACE OF CONC SURROUND TO FIRST FLEXIBLE JOINT TO BE 150mm

REV	DATE	DESCRIPTION	BY	CHK	APP

REVISIONS

FOR PLANNING

CLIENT

Tai Wales & West Housing

PROJECT

Former Guy's Cliff, Colwyn Bay

TITLE

Drainage Details Sheet 1

DATRYS

Caernarfon:
Unit 1 Block C, Doc Victoria
Caernarfon, LL55 1TH
Tel: 01286 671027

Mold:
Suite 4A, Broncoed House
Wrexham Road, Mold, CH7 1HP
Tel: 01352 706205
info@datrys.coop | www.datrys.net

DRAWN	CB	CHECKED	AR	PASSED	NJ
DATE	08.01.24	CLIENT'S REF.			
SCALE AT A1	AS SHOWN	AUTOCAD REF.	22315/502		

DRAWING No.	REVISION
22315/502	P1

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