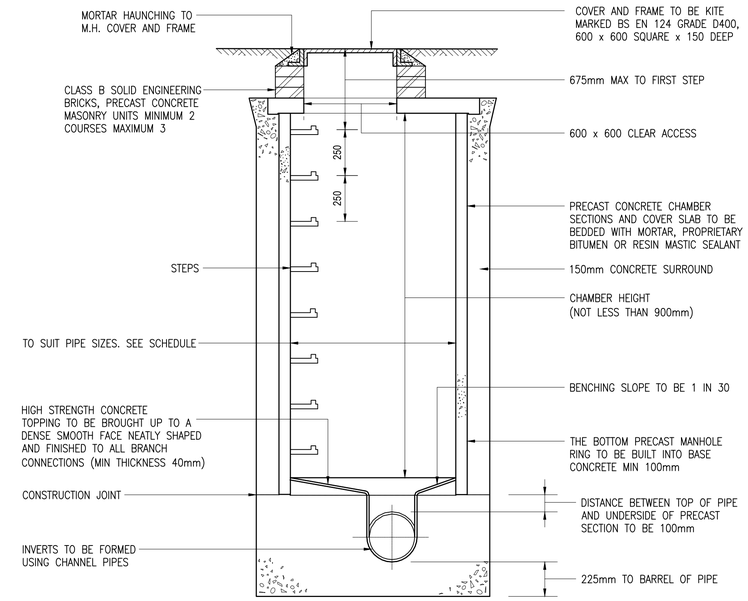
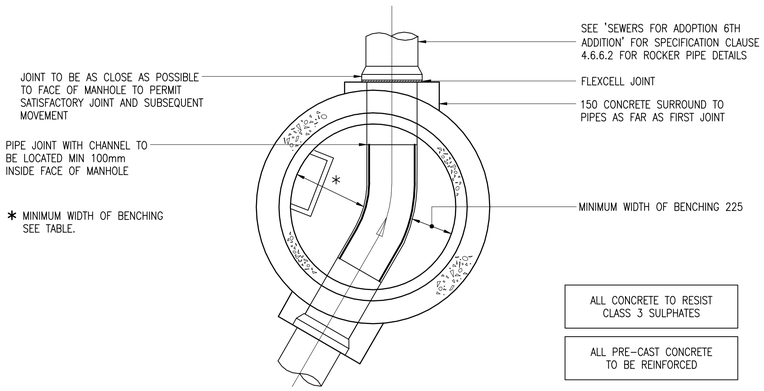




ALL CONCRETE TO RESIST CLASS 3 SULPHATES

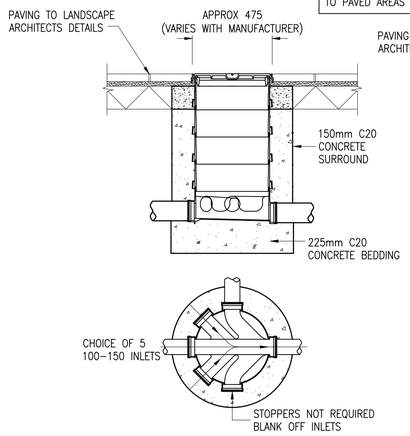
ALL PRE-CAST CONCRETE TO BE REINFORCED

TYPICAL PRECAST CONCRETE MANHOLE DETAIL (TYPE B) MAX DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE 3.0m

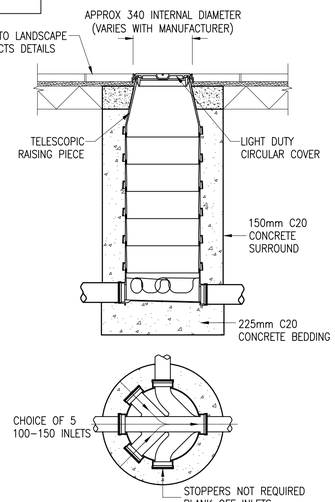
SCALE 1:25

MIN. BENCHING WIDTHS TO LANDING SIDE OF MANHOLE CHAMBERS	
PIPE SIZE	MIN. BENCHING
400mmø & BELOW	600mm
450mmø – 700mmø	750mm
750mmø AND ABOVE	1100mm

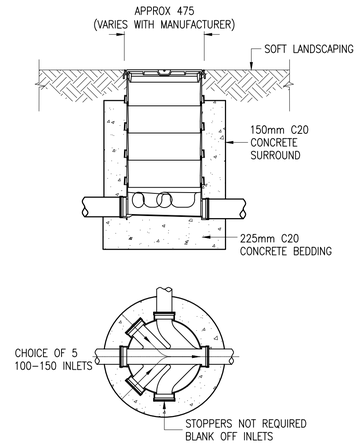
NOTE: SQUARE COVERS REQUIRED TO PAVED AREAS



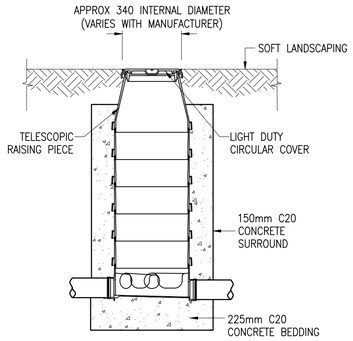
POLYPROPYLENE INSPECTION CHAMBER DETAILS (HARD LANDSCAPING)

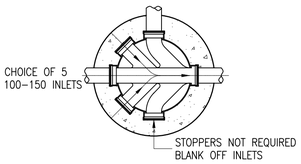


REDUCED ACCESS INSPECTION CHAMBER DETAILS (DEPTH 1.1m < 3m) (HARD LANDSCAPING)

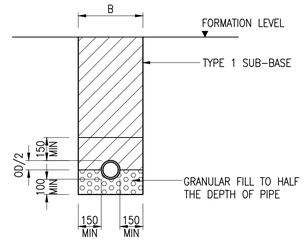


POLYPROPYLENE INSPECTION CHAMBER DETAILS (SOFT LANDSCAPING)



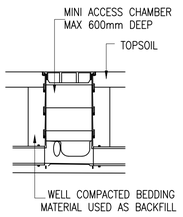


REDUCED ACCESS INSPECTION CHAMBER DETAILS (DEPTH 1.1m < 3m) (SOFT LANDSCAPING)

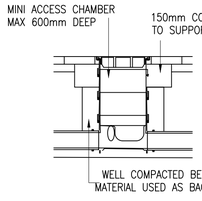


CLASS 'B' BEDDING DETAIL

GENERALLY SUITABLE IN ALL SOIL CONDITIONS

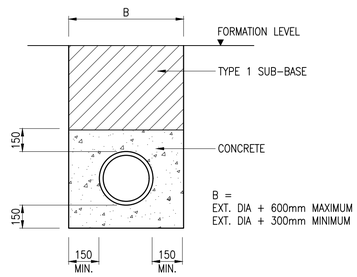


SITED IN LANDSCAPED AREAS



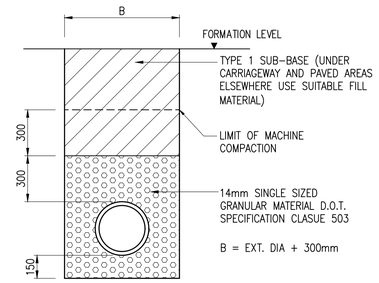
SITED IN DRIVEWAYS / PAVED AREAS

MINI ACCESS CHAMBER



DETAIL OF CLASS 'Z' CONCRETE SURROUND

(FOR PIPES UNDER TRAFFICKED AREAS WITH <1.2m COVER)



CLASS 'S' BEDDING DETAIL

TYPE 'S' BEDDING TO BE USED FOR PIPES GENERALLY IN FOOTWAY AND LANDSCAPED AREAS, AND FOR PIPES UNDER TRAFFICKED AREAS WITH MORE THAN 1.2m COVER. CLASS 'S' SURROUND TO BE USED ON SHALLOW RUNS LESS THAN 600mm COVER PROVIDING THE PIPE IS WITHIN THE SOFT LANDSCAPING OR PAVED FOOTPATHS.

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN. SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
2. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH 'BUILDING REGULATIONS PART H' AND 'SEWERS FOR ADOPTION' 6TH EDITION, REFER TO PLAN FOR EXTENT OF ADOPTABLE DRAINAGE.
3. ALL EXISTING INVERT LEVELS TO BE CHECKED BY THE CONTRACTOR AT THE START OF WORKS AND ANY OTHER DISCREPANCIES NOTIFIED TO THE ENGINEER. ALL LEVELS ARE BASED ON TOPOGRAPHICAL SURVEY INFORMATION PROVIDED BY OTHERS.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES.
5. THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES.
6. EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES.
7. ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES.
8. ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS TO COMPLY WITH SULPHATE CLASS DS-1 / AC-1 AS INDICATED IN WSP REPORT No. 70015698-10585.
9. ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR THE NETWORK OPERATOR AS APPLICABLE.
10. WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION. A CLASS S BED AND SURROUND MUST BE USED FOR SUCH PIPES.
11. TRENCH BACKFILL IN HIGHWAYS / CAR PARKS / HARD LANDSCAPE TO WITHIN 1M OF HIGHWAY SHALL BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 3.3.4. BACKFILL MATERIAL IN OTHER AREAS SHALL BE SELECTED EXCAVATED MATERIAL FREE FROM STONES LARGER THAN 40MM, LUMPS OF CLAY OVER 100MM, TIMBER, FROZEN MATERIAL OR VEGETABLE MATTER.
12. UPVC PIPES AND FITTINGS SHALL COMPLY WITH WIS 4-35-01. CLAY PIPES AND FITTINGS SHALL BE EXTRA STRENGTH TO BSEN 295 AND BS 65. CONCRETE PIPES AND FITTINGS SHALL COMPLY WITH BS 5911 , PIPES SHALL BE CLASS H.
13. A CLASS S BED MUST BE PROVIDED TO UPVC PIPES , A CLASS B BED MAY BE USED FOR V.C. AND CONCRETE PIPES.
14. BACKFILL TO DRAINAGE TRENCHES ABOVE PIPE BEDDING AND SURROUND WITHIN ROAD AND CAR PARK AREAS TO BE GRANULAR FILL COMPLYING WITH CLASS 6F2 OR DOT TYPE 1 OR QUARRY SCALPING GRADED FROM 75mm DOWN.
15. A CONCRETE SURROUND IS NOT NORMALLY REQUIRED TO MANHOLES UNLESS INSTALLED IN AREAS OF UNSTABLE GROUND. UNDER CONDITIONS OF FLOATATION OR WHERE SUBJECTED TO EXCEPTIONAL OR ECCENTRIC LOADS, IN WHICH CASE A 150mm SURROUND OF AT LEAST 20N/mm2 CONCRETE SHOULD BE PROVIDED. ANY JOINTS SHOULD BE STAGGERED WITH THE PRECAST CONCRETE JOINTS.
16. DOUBLE STEPS SHALL BE PLASTIC ENCAPSULATED CARBON TO BS EN 1247-2 MANHOLE STEPS. STEP IRONS AT 300ctrs. HORIZONTALLY & VERTICALLY MAY BE USED AS AN ALTERNATIVE TO DOUBLE STEPS.
17. NO MANHOLE SHALL BE LOCATED SO THAT ITS COVER LIES ACROSS A BOUNDARY OF DIFFERENT SURFACE FINISHES.

REV	DATE	DESCRIPTION	BY	CHK	APP
AB	05.05.2023	As Built	JRS	KOB	KOB
C01	05.01.2022	CONSTRUCTION ISSUE	JRS	KOB	KOB

DRAWING STATUS: **AS Built**

CLIENT: BROOKFINCH

ARCHITECT: CALDER PEEL

PROJECT: SNELL STREET

TITLE: DRAINAGE DETAILS SHEET 1

STATUS:	PROJECT NUMBER	DRAWING No:	REV:
S1	220-158	**SNE- AJP - XX - 00 - DR - C - 0010**	AB

SCALE @ A0:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
NTS	JRS	JRS	KOB	KOB	May 23

AJP consulting engineers
0151 227 1462 info@ajpltd.co.uk 01 Dale Street, Liverpool, L2 2ET