

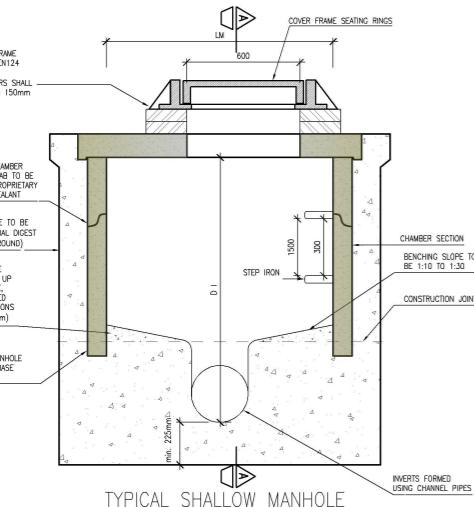
NOTES

GENERAL NOTES :

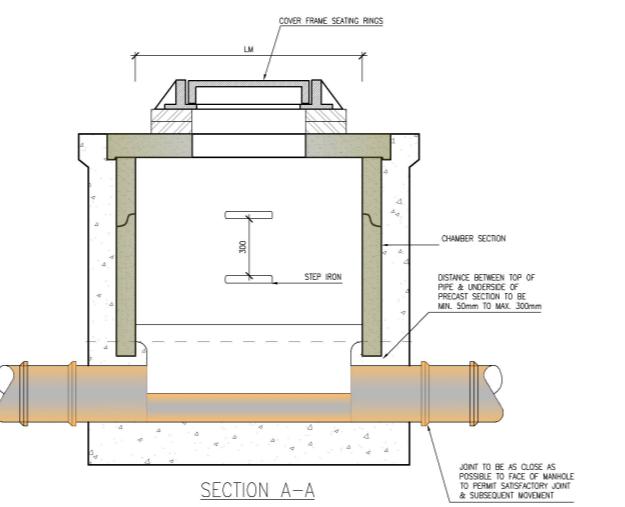
1. ALL COYLE KENNEDY DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS DRAWINGS AND ALL OTHER RELEVANT DRAWINGS.
2. ALL SETTING OUT, INSULATION, DPC, SCREED AND RADON PROTECTION DETAILS BY ARCHITECT.
3. DETAILED SPECIFICATIONS (IF NOT ISSUED) AVAILABLE AT ENGINEERS OFFICE FOR INSPECTION BY CONTRACTORS, BY APPOINTMENT.
4. DETAILS OF SUBSTRUCTURE GAS/WATER PROOFING MEMBRANES TO BE BY A REPUTABLE, COMPETENT SUPPLIER.
5. ALL SITE DEVELOPMENT WORKS SHOULD COMPLY WITH THE RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS PUBLISHED BY THE DEPARTMENT OF THE ENVIRONMENT.
6. THE CONTRACTOR IS ADVISED TO HAVE ALLOWED FOR, WITHIN HIS TENURE, EMPLOYING A CHARTERED STRUCTURAL ENGINEER WITH ADEQUATE PROFESSIONAL INTEGRITY TO ASSESS, DESIGN AND DETAIL SUCH TEMPORARY WORKS AS ARE NECESSARY TO OFFER SUPPORT TO EXISTING AND/OR CONSTRUCTION WORKS DURING THE CONSTRUCTION PERIOD. THIS APPLIES WITHIN THE SITE AND NEIGHBOURING THE SITE.
7. THE CONTRACTOR IS ADVISED TO HAVE VISITED THE SITE, AND CONSULTED WITH RELEVANT AUTHORITIES AND BEEN ADVISED IN RELATION TO THE SITES SURROUNDINGS, EXISTING SERVICES, LEVELS, BOUNDARIES, GROUND CHARACTERISTICS AND ANY OTHER SITE CONSTRAINTS.
8. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS.
9. WHERE LEANING IS SPECIFIED ALL LEANING TO BE GRADE GEN 3, UNLESS NOTED OTHERWISE.
10. ALL LEVELS ARE STRUCTURAL LEVELS (U.N.0.)
11. ALL COLUMNS CENTERED ON GRIDS (U.N.0.)
12. DO NOT SCALE FROM DRAWINGS, USE FIGURED DIMENSIONS ONLY

DRAINAGE NOTES :

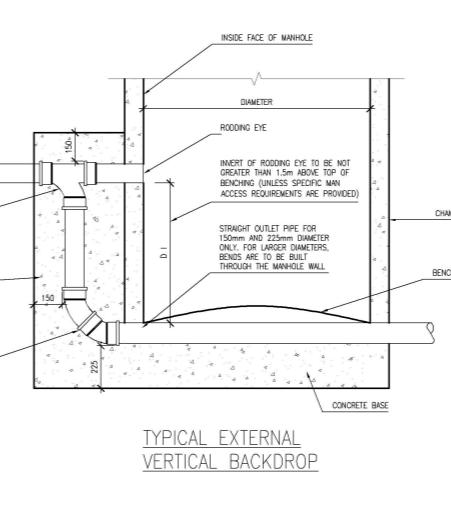
1. CONTRACTOR TO HAVE ALL NECESSARY ENQUIRIES REGARDING LOCATION OF EXISTING SEWERS, ELECTRICAL AND OTHER SERVICES ON SITE.
2. ALL DRAINAGE WORK TO BE CARRIED OUT IN ACCORDANCE WITH PART H BUILDING REGULATIONS AND WHERE RELEVANT SEWERS FOR ADOPTION 6TH EDITION A DESIGN & CONSTRUCTION GUIDE FOR DRAWDRAWS.
3. BEDDING MATERIAL TO BE 10MM SINGLE-SIZED AGGREGATE COMPLYING WITH THE REQUIREMENTS OF AGGREGATES FOR CONCRETE. FOR RIGID PIPES THE GRANULAR MATERIAL SHOULD CONFORM TO BS EN 1610 Annex B Table 8 AND SHOULD BE SINGLE SIZE MATERIAL OR GRADED MATERIAL FROM 5MM TO 10MM FOR 100MM PIPES; 14MM FOR 150MM PIPES; 20MM FOR 150MM - 600MM DIAMETER AND 40MM FOR PIPES MORE THAN 600MM DIAMETER.
4. THE MINIMUM THICKNESS OF BEDDING MATERIAL OF THE TRENCH SHOULD CONSIST OF BEDDING MATERIAL FOR THE FULL WIDTH OF THE TRENCH AND LAD TO THE CORRECT GRADIENT COMPATIBLE FRACTION MAXIMUM 0.3 FOR CLASS IN OR B AND 0.15 FOR CLASS F.
5. THE MINIMUM THICKNESS OF BEDDING MATERIAL UNDER THE BARREL OF THE PIPE SHOULD BE 100MM.
6. IMPORTED BEDDING MATERIAL AND BACKFILL USING 'AS DUG' MATERIAL MUST BE APPROVED BY ENGINEER. BACKFILL WITH SELECTED OR GRANULAR FILL FREE FROM STONES LARGER THAN 40MM (AS DUG MATERIAL CANNOT BE CLAY).
7. ALL PVC-U PIPES AND FITTINGS USED FOR DRAWDRAWS AND SEWER MUST COMPLY WITH BS EN 401.
8. ALL GULLY TOPS, MANHOLE COVERS, INSPECTION CHAMBER COVERS & DRAINAGE CHANNELS TO BE CLASS D400 IN ACCORDANCE WITH BS EN 124.



TYPICAL SHALLOW MANHOLE



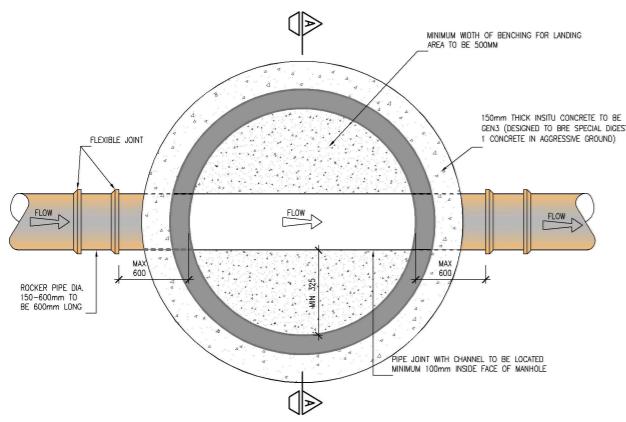
SECTION A-A



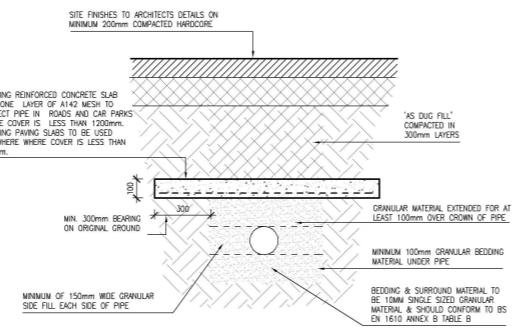
TYPICAL EXTERNAL
VERTICAL BACKDROP

MINIMUM SIZE OF CAPPING SLABS		
PIPE SIZE (mm)	WIDTH (mm)	DEPTH (mm)
100	500	100
225	500	100
300	600	150
375	750	200
450	900	250
600	1200	300

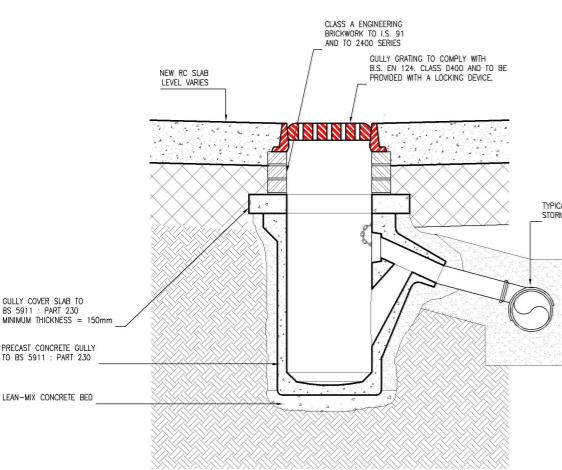
MINIMUM INTERNAL DIMENSIONS OF MANHOLES	
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375mm	1200
375mm TO 450mm	1350
500mm TO 750mm	1500



TYPICAL PRE-CAST MANHOLE PLAN

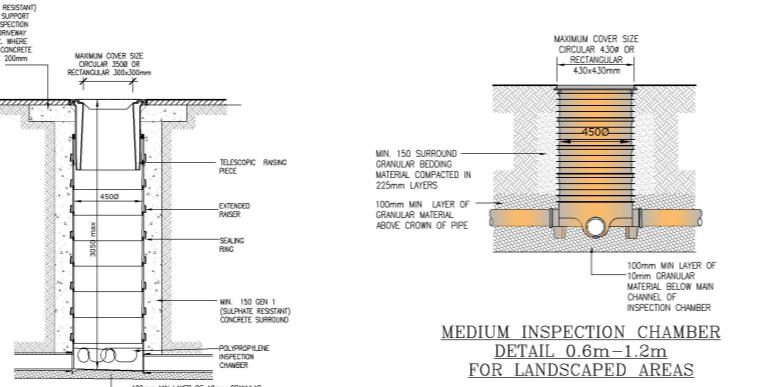


TYPICAL PIPE SECTION



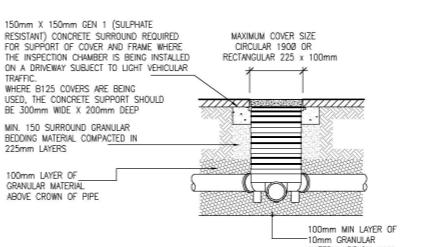
TYPICAL SECTION THROUGH GULLY

SCALE 1:20



MEDIUM INSPECTION CHAMBER
DETAIL 0.6m-1.2m
FOR LANDSCAPED AREAS

DEEP INSPECTION CHAMBER DETAIL
1.2m-3.050 (MAX)
FROM COVER TO INVERT FOR USE IN
HARD PAVED (LIGHTLY TRAFFICKED) AREAS

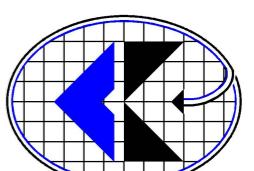


SHALLOW INSPECTION CHAMBER
DETAIL FOR USE IN HARD PAVED
(LIGHTLY TRAFFICKED) AREAS

F₀ - 8/1

Rev. Revision Date

DRAWING STATUS
P PRELIMINARY A APPROVAL T TENDER
C CONSTRUCTION R RECORD I INFORMATION



COYLE KENNEDY
Consulting Engineers

Third Floor,
GW Business Centre,
Great West House,
Great West Road,
Brentford TW8 9DF,
England

Tel: +44(0)203 393 1174 Website: www.coylekennedy.com
Fax: +44(0)203 004 1234 email: mail@coylekennedy.com

PROJECT BREAKSPEAR ROAD SOUTH, ICKENHAM

CLIENT FLANNERY'S

TITLE TYPICAL DRAINAGE DETAILS - SHEET 1

PROJECT No. 25-014 STATUS - DRAWING No. C-310

DATE MARCH 2025 DRAWING REV.

SCALE 1:20 0 0.2 0.4 0.6 0.8 1m SCALE 1:50 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5m SCALE 1:100 0 1 2 3 4 5 6 7 8 9 10m SCALE 1:200 0 1 2 3 4 5 6 7 8 9 10 12 14 16 18 20m SCALE 1:250 0 1 2 3 4 5 6 7 8 9 10 12 14 16 18 20m SCALE 1:500 0 5 10 20 30m

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BY BK

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