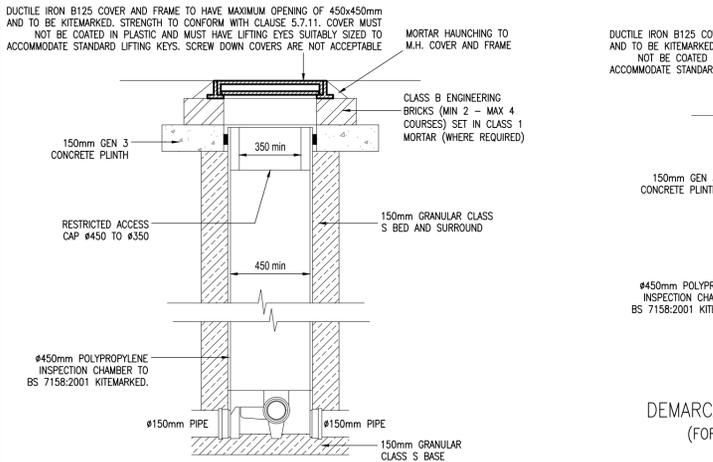
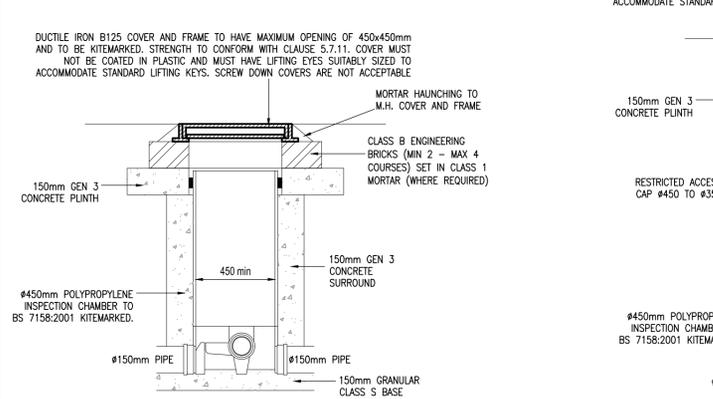


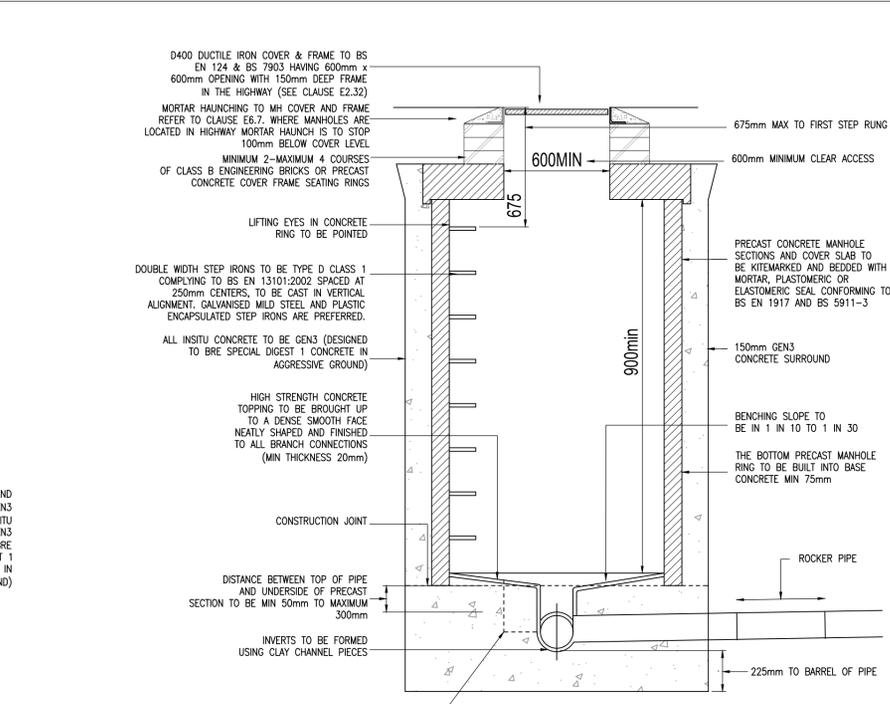
TYPE A TYPICAL MANHOLE DETAIL
(DEPTH TO SOFFIT >3.0m)



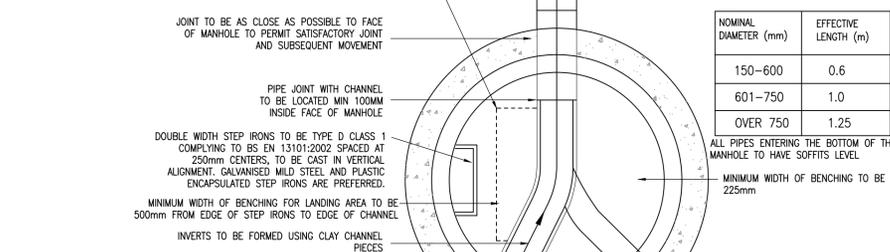
DEMARCATION CHAMBER LOCATED IN GARDENS
(FOR DEPTH OF CHAMBER LESS THAN 1200mm)



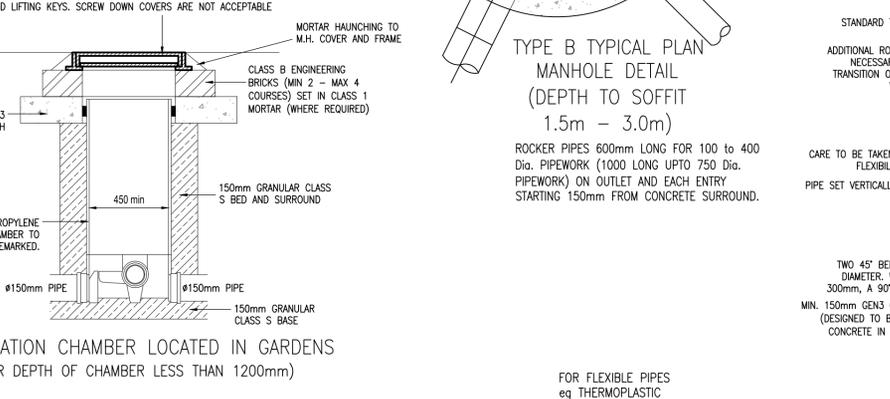
DEMARCATION CHAMBER LOCATED IN DRIVEWAY
(FOR DEPTH OF CHAMBER LESS THAN 1200mm)



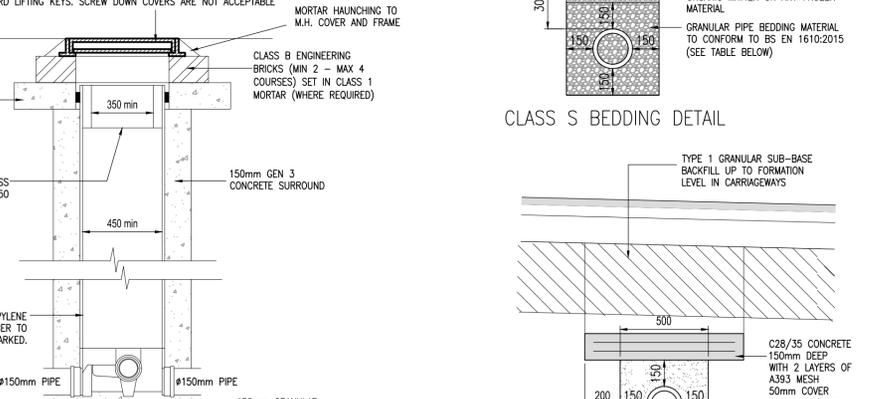
TYPICAL MANHOLE DETAIL TYPE C
MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE <1500



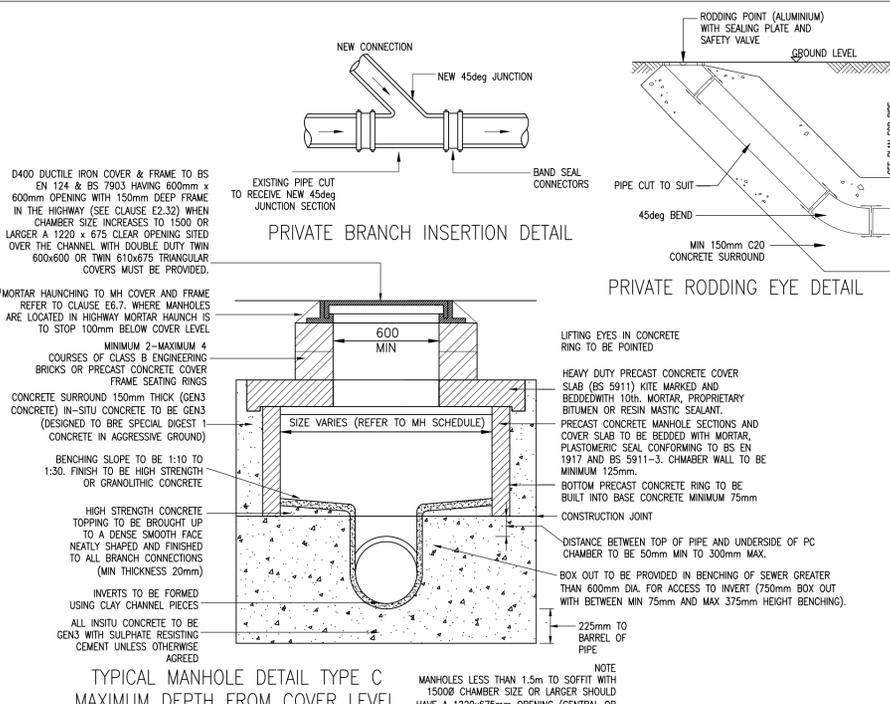
TYPE B TYPICAL PLAN MANHOLE DETAIL
(DEPTH TO SOFFIT 1.5m - 3.0m)



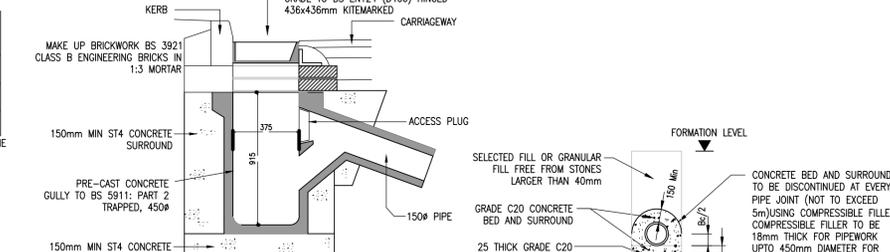
DEMARCATION CHAMBER LOCATED IN DRIVEWAY
(FOR DEPTH OF CHAMBER GREATER THAN 1200mm, MAXIMUM DEPTH 3000mm)



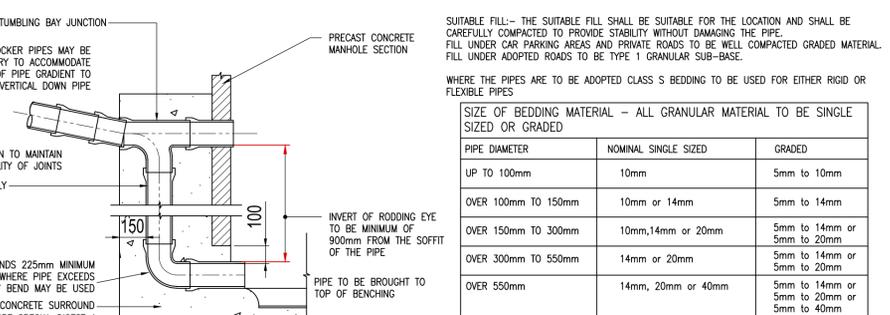
CONCRETE SLAB PROTECTION DETAIL



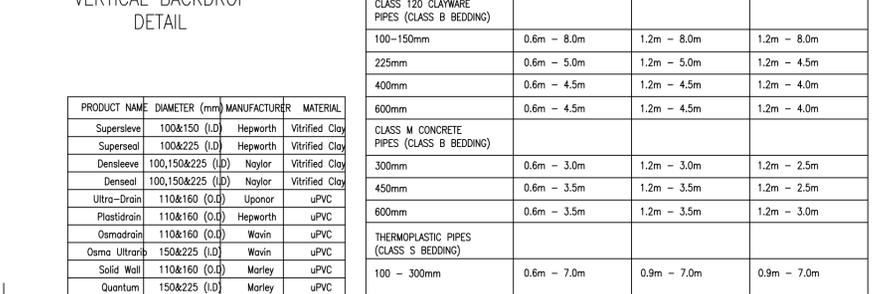
PRIVATE BRANCH INSERTION DETAIL



PRIVATE RODDING EYE DETAIL



TYPICAL PRIVATE PRECAST CONCRETE ROAD GULLY DETAIL



TYPICAL EXTERNAL VERTICAL BACKDROP DETAIL

PRODUCT NAME	DIAMETER (mm)	MANUFACTURER	MATERIAL
Supersleve	100&150 (LD)	Hepworth	Vitrified Clay
Superseel	100&225 (LD)	Hepworth	Vitrified Clay
Densieve	100,150&225 (LD)	Naylor	Vitrified Clay
Denseel	100,150&225 (LD)	Naylor	Vitrified Clay
Ultra-Drain	110&160 (0.0)	Uponor	uPVC
Plastidrain	110&160 (0.0)	Hepworth	uPVC
OsmaDrain	110&160 (0.0)	Wavin	uPVC
Osma Ultrarb	150&225 (LD)	Wavin	uPVC
Solid Wall	110&160 (0.0)	Marley	uPVC
Quantum	150&225 (LD)	Marley	uPVC
Underground Drain	110&160 (0.0)	PolyPIPE	uPVC
Ridgisewer	150&225 (LD)	PolyPIPE	uPVC

- NOTES**
- THIS DRAWING IS PRODUCED FOR USE IN THIS PROJECT ONLY AND MAY NOT BE USED FOR ANY OTHER PURPOSE. THE CONSULTING ENGINEERS ACCEPT NO LIABILITY FOR THE USE OF THIS DRAWING OTHER THAN THE PURPOSE FOR WHICH IT WAS INTENDED IN CONNECTION WITH THIS PROJECT AS RECORDED ON THE TITLE BLOCK FIELDS 'PURPOSE FOR ISSUE' AND 'FILE STATUS CODE'.
 - THIS DRAWING MAY NOT BE REPRODUCED IN ANY FORM WITHOUT PRIOR WRITTEN AGREEMENT FROM ADVANT ENGINEERS.
 - DO NOT SCALE FROM THE DRAWING, USE WRITTEN DIMENSIONS ONLY.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
 - DISCREPANCIES MUST BE REPORTED BACK TO THE ENGINEER PRIOR TO CONSTRUCTION.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ADVANT ENGINEERS DRAWINGS AND SPECIFICATIONS.

- YV NOTES:**
- ALL ADAPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'CODE FOR ADOPTION', THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
 - MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
 - FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
 - YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADAPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION REGARDING THE DISPOSAL OF THE FILTER/LAND DRAINAGE RUN-OFF.
 - THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1.0m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
 - SEWERS MUST HAVE A 5.0m CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.
 - THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 180mm GRANULAR BED AND SURROUND, WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 0.9m IN NON VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
 - BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
 - YORKSHIRE WATER POLICY IS THAT TYPE 'C' BRICK MANHOLES AND 1000mm DIAMETER MANHOLES RINGS ARE NOT PREFERRED. INSTEAD, IT IS PREFERRED THAT YOU USE A TYPE 'B' MANHOLE WITH 1200mm DIAMETER OR 1500mm DIAMETER RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE THE DEPTH OF COVER TO THE PIPE IS 1.0m - 1.5m.
 - ADAPTABLE PLASTIC SEWER PIPES TO BE BS KITEMARKED (CERTIFIED TO WIS 4-35-01 AND BS EN 13476). ADAPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD REQUIRE CLAYWARE CHANNELS IN MANHOLES.
 - THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA 40N/M, 150mm DIA 60N/M, 225mm DIA 45N/M, 300mm DIA 72N/M. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE (CLASS 120 TO BS EN 13916 / BS 5911-1 2002). PLASTIC PIPES SHOULD CONFORM TO WIS 4-35-01 AND BS EN 13476.
 - WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
 - THERE MUST BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES, APPROX. 300mm. IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY NEED TO BE INCREASED.

REV	AMENDMENTS	BY	DATE
E	UPDATED TO YV COMMENTS	MJM	26.09.24
D	UPDATED TO YV COMMENTS	MJM	12.09.24
C	UPDATED TO YV COMMENTS	MJM	24.07.24
B	UPDATED TO YV COMMENTS DATED 22.06.23	MJM	14.07.23
A	INITIAL ISSUE	MJM	22.05.23

FOR APPROVAL

STATUS	CHK'D
PRELIMINARY	MJM
FOR COMMENT	MJM
FOR APPROVAL	MJM
FOR CONSTRUCTION	
AS BUILT	

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CLIENT
NORTH PARK HOMES LTD

CONTRACT
YEW TREE ROAD BIRCHENCLIFFE HUDDERSFIELD

TITLE
DRAINAGE CONSTRUCTION DETAILS

DRAWN	MJM	CHK'D	MJM
SCALE	1:200 @ A1	DATE	28.11.22

JOB No	DRG No	REV
22046	105	E