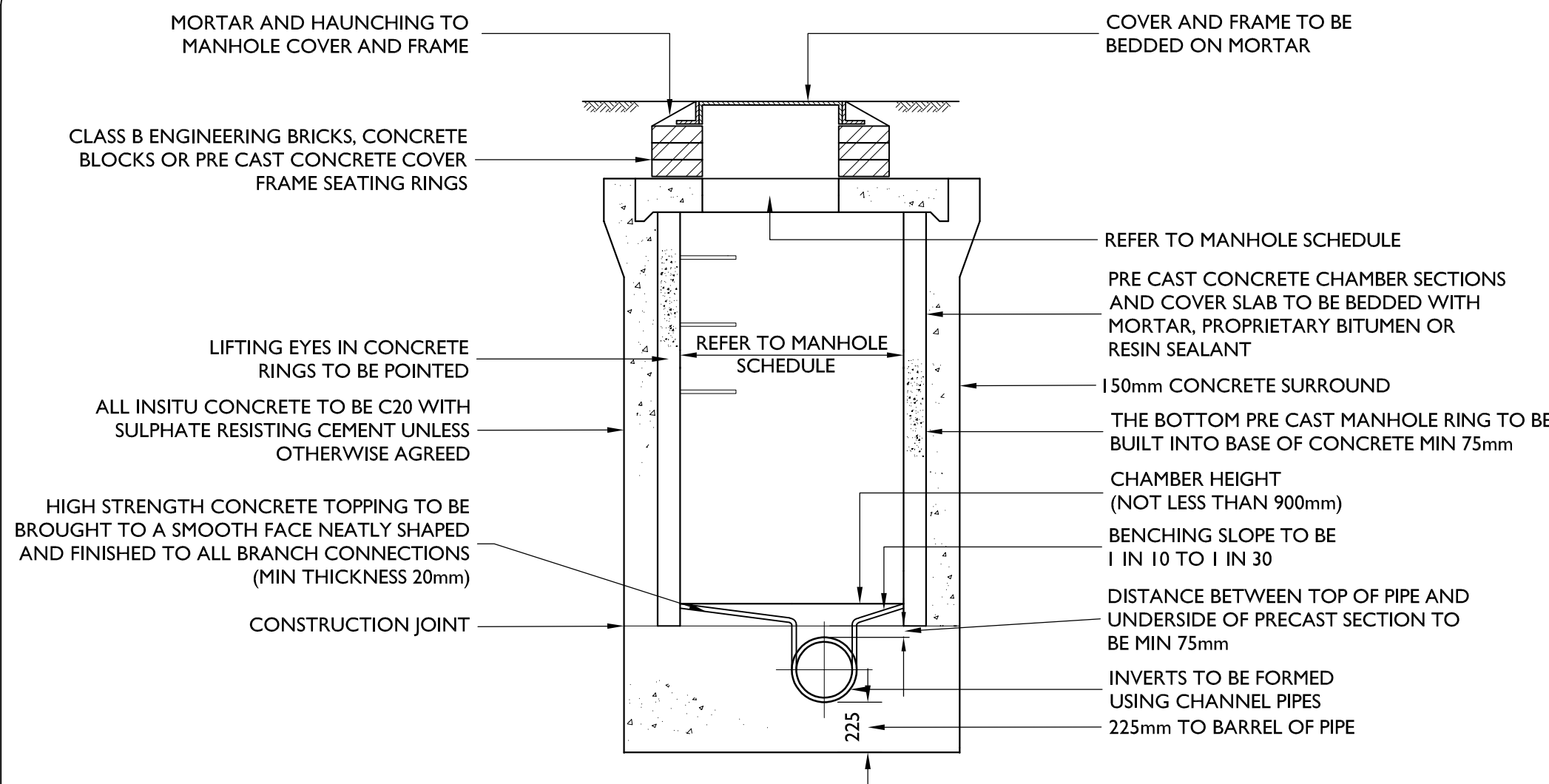
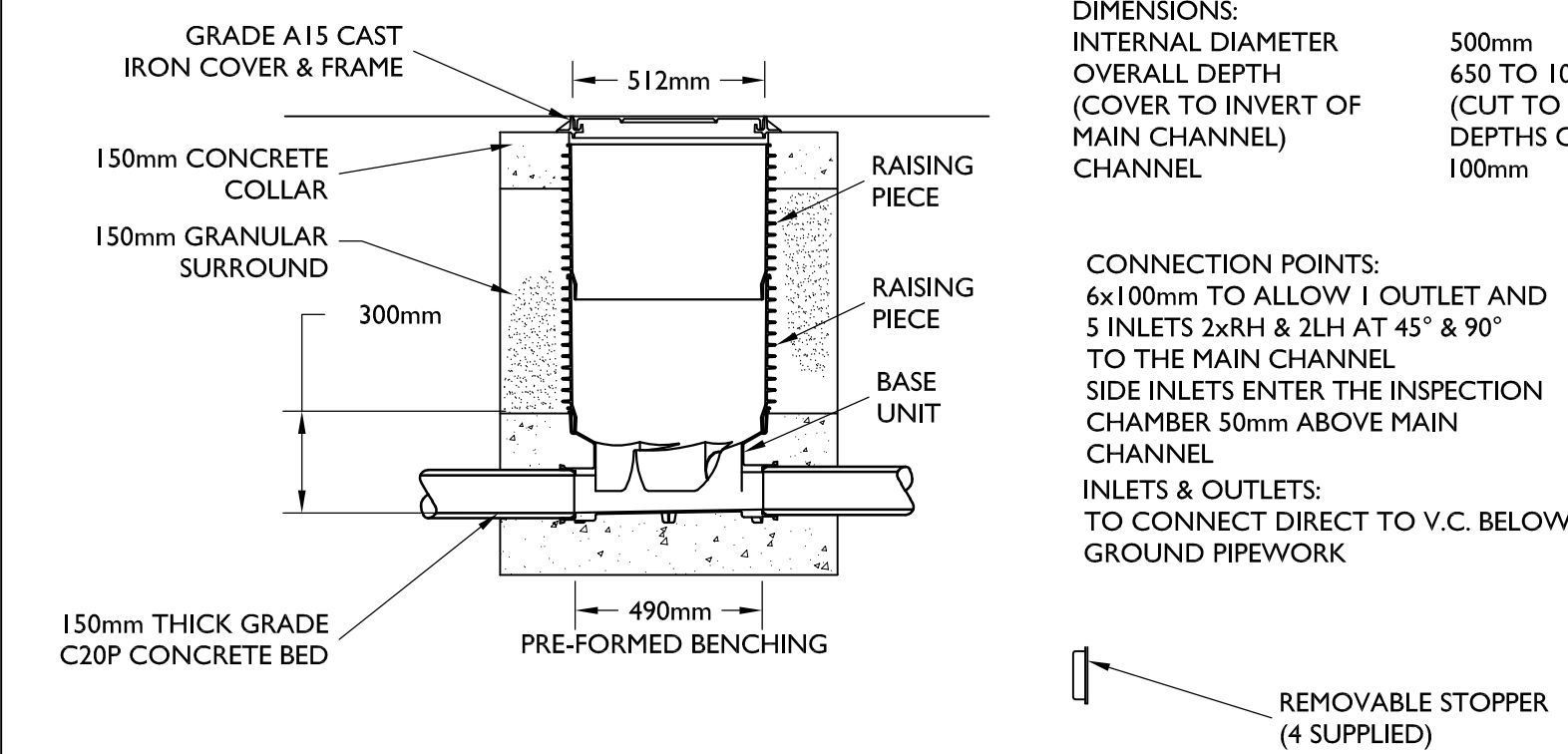




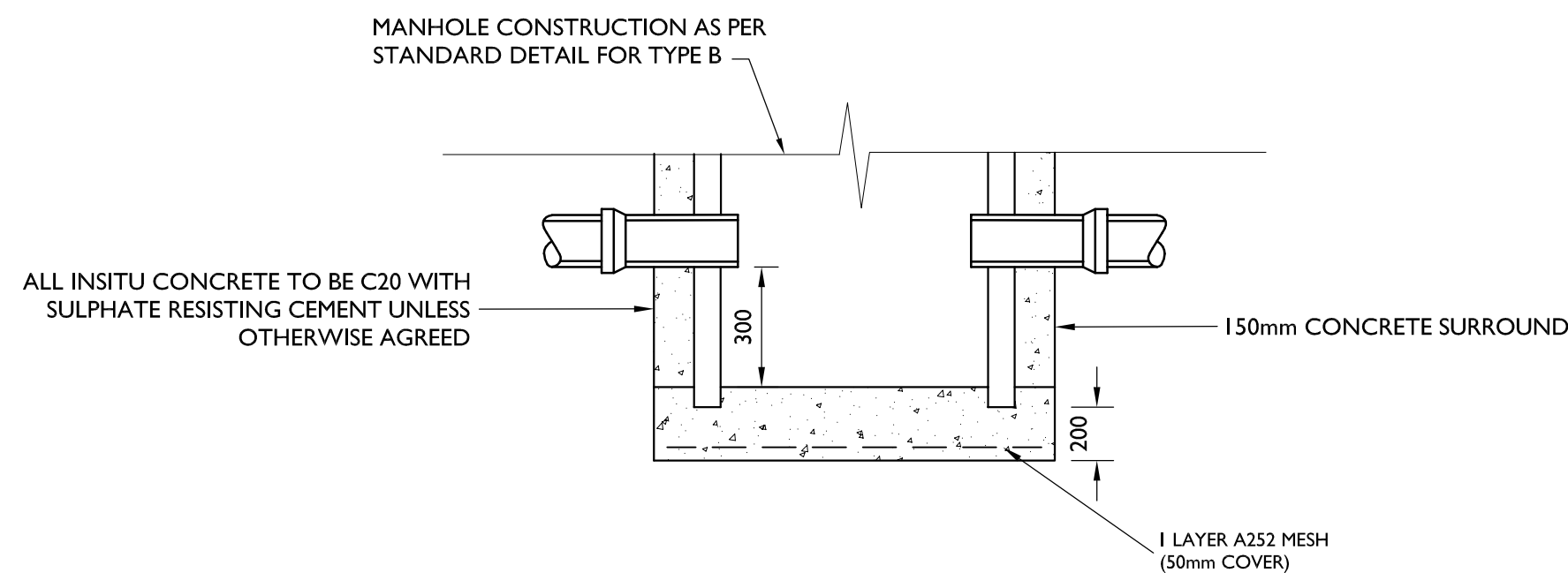
TYPICAL MANHOLE DETAIL - TYPE B
MAXIMUM 3m DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE

SCALE 1:25



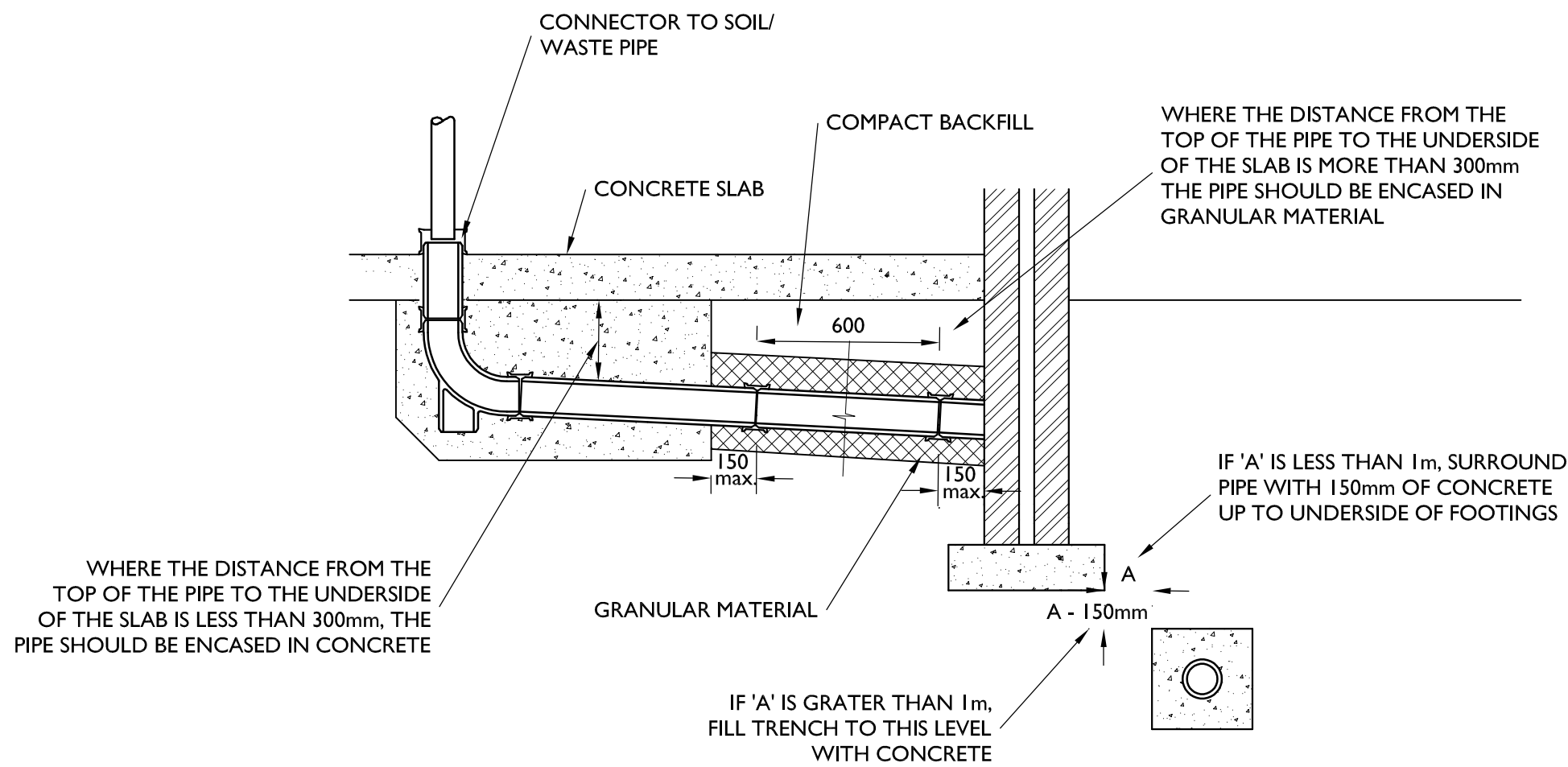
LIGHTWEIGHT POLYPROPYLENE
INSPECTION CHAMBER

SCALE 1:20



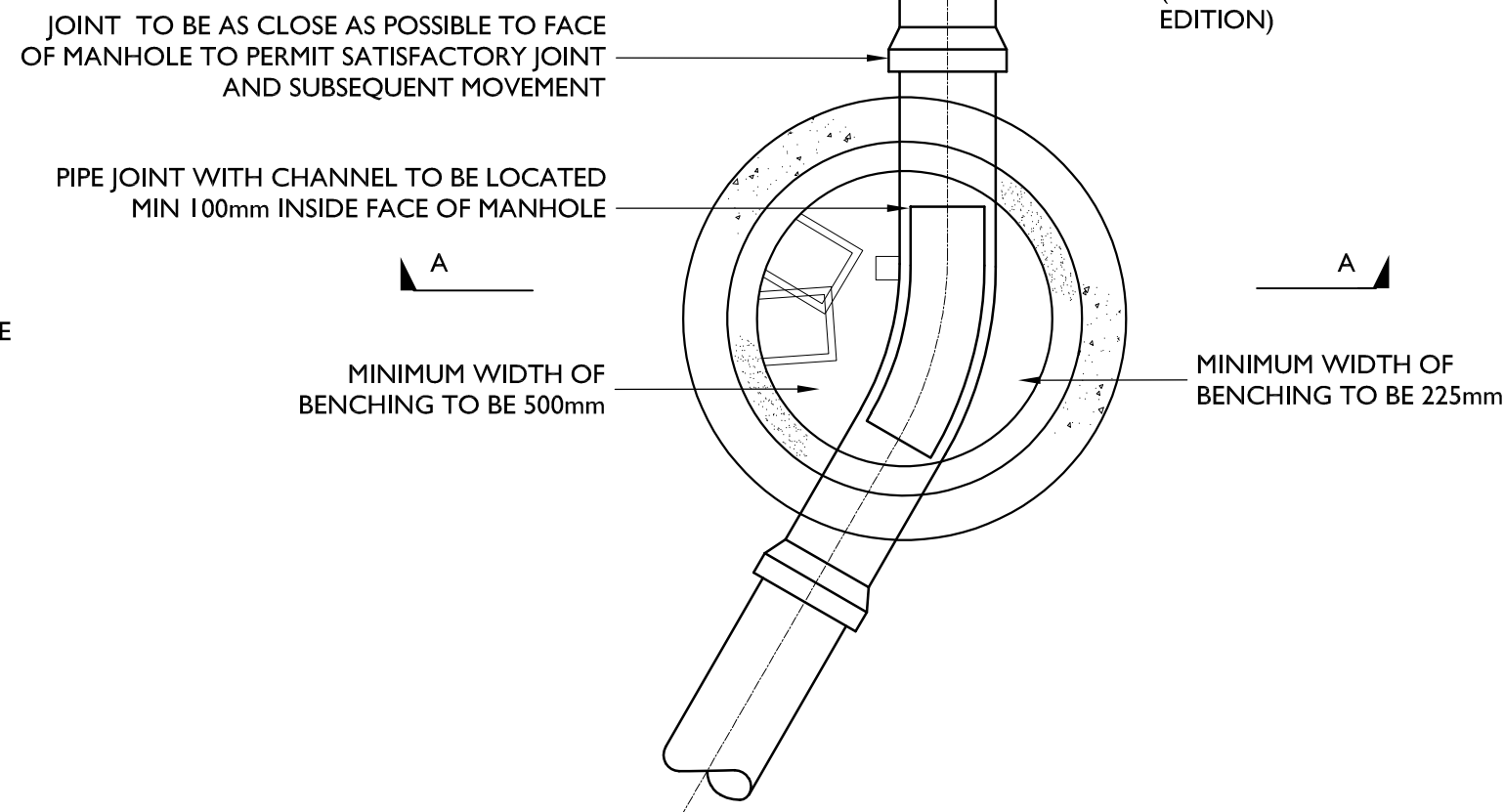
TYPICAL CATCHPIT DETAIL

SCALE 1:25

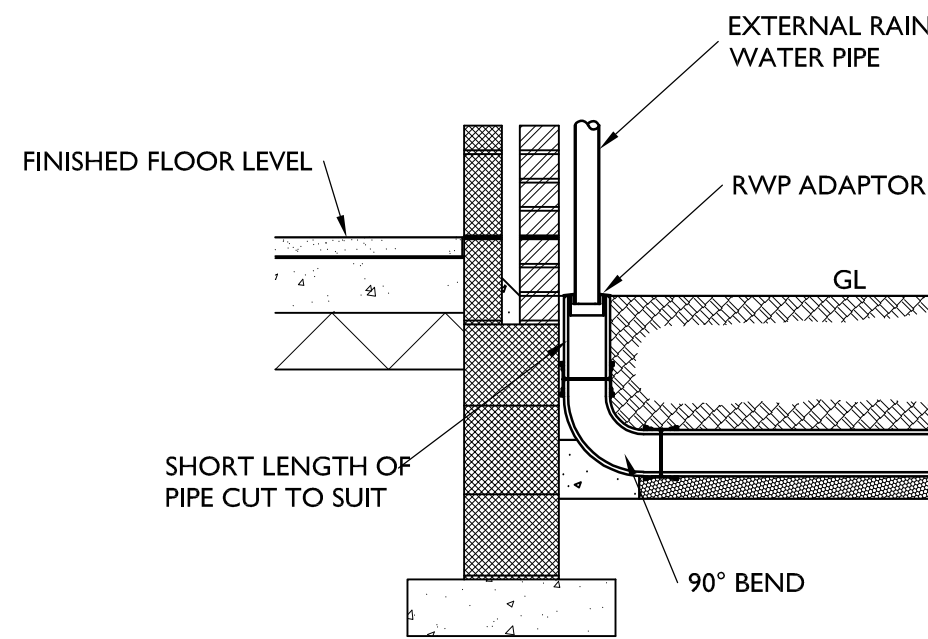


PIPE BEDDING - TYPE W & Y

SCALE 1:20

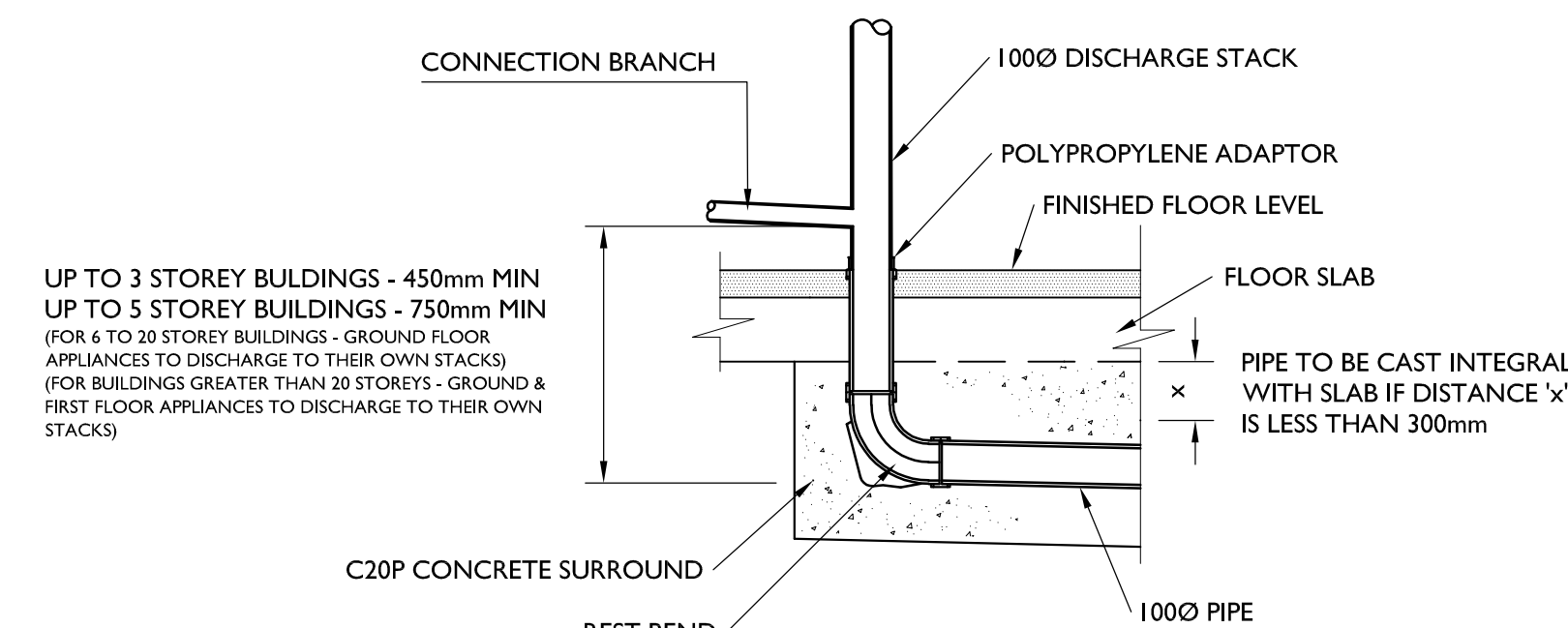


PLAN OF TYPICAL MANHOLE



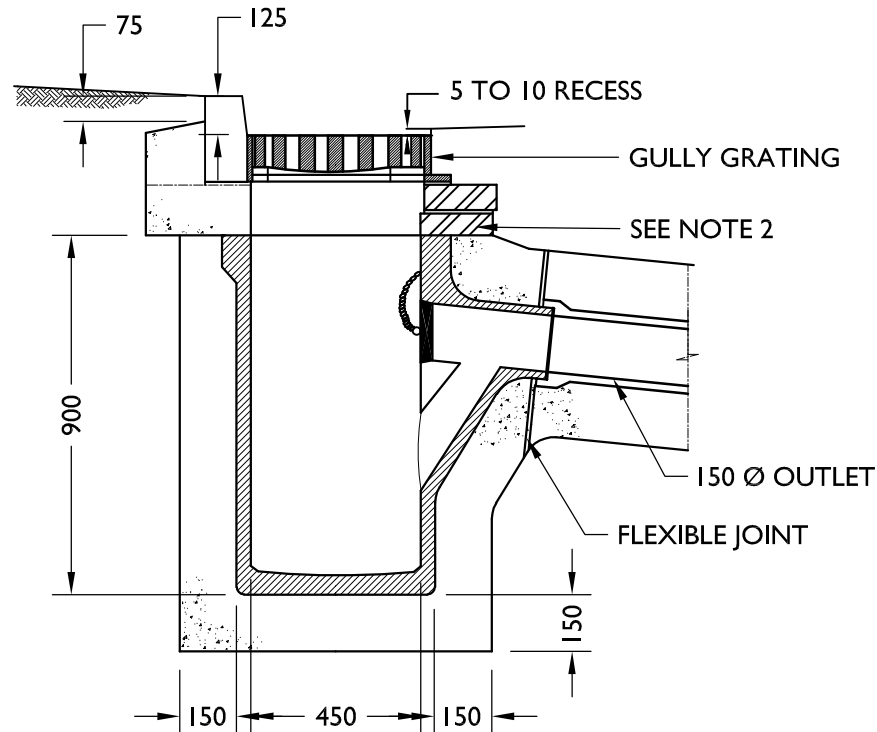
R.W.P. CONNECTION DETAIL

SCALE 1:20



FOUL OUTLET CONNECTION DETAIL

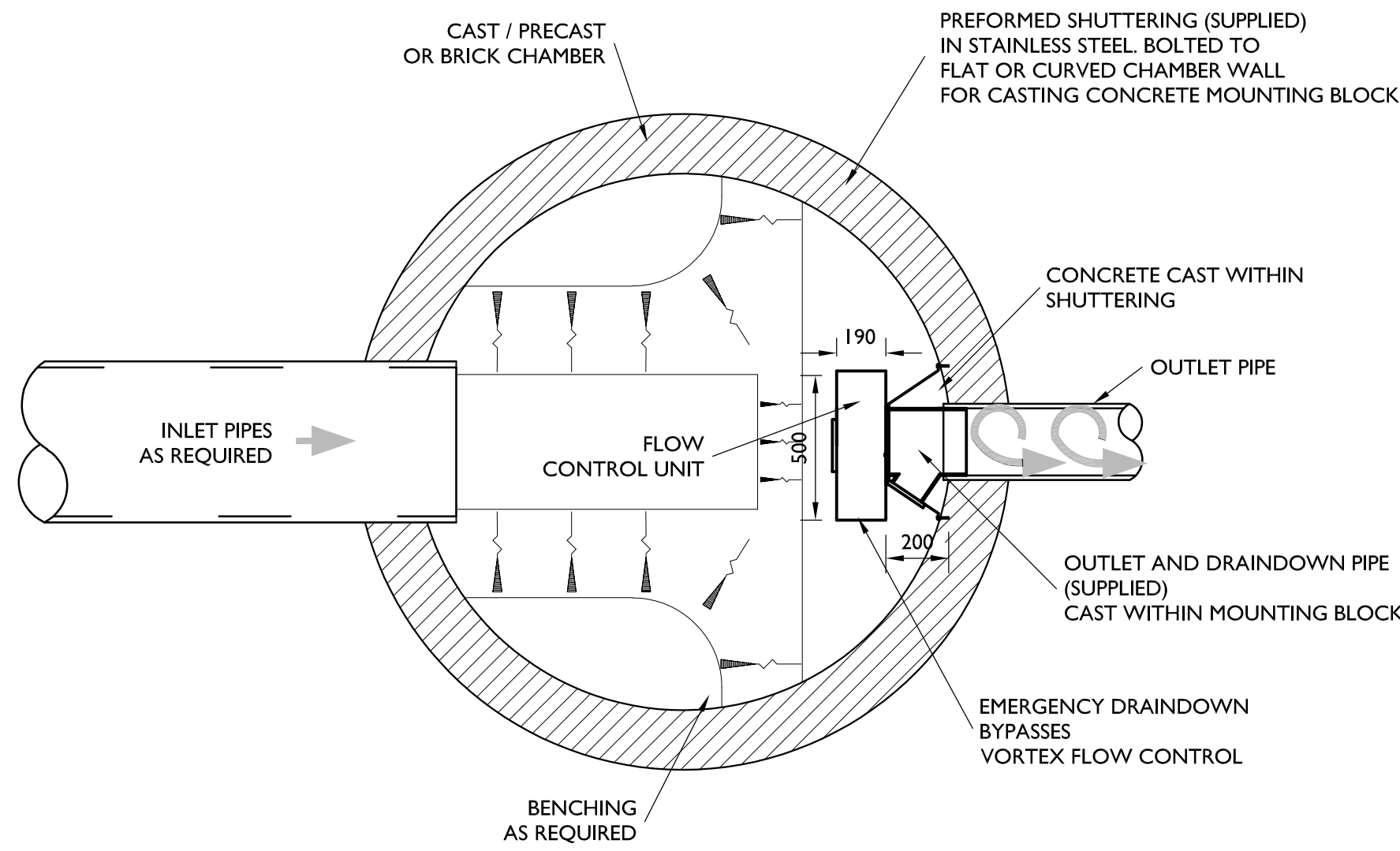
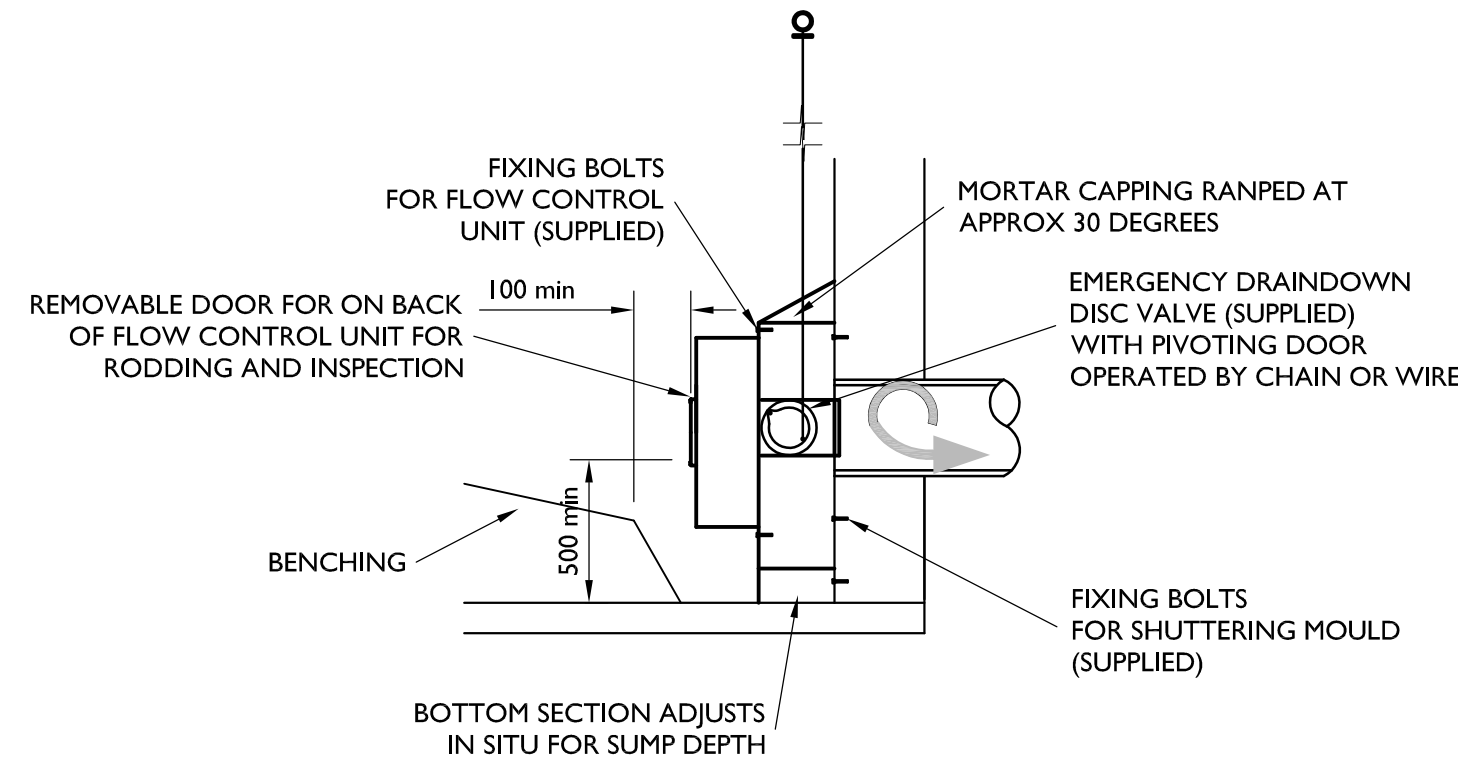
SCALE 1:20



STANDARD ROAD GULLY DETAIL

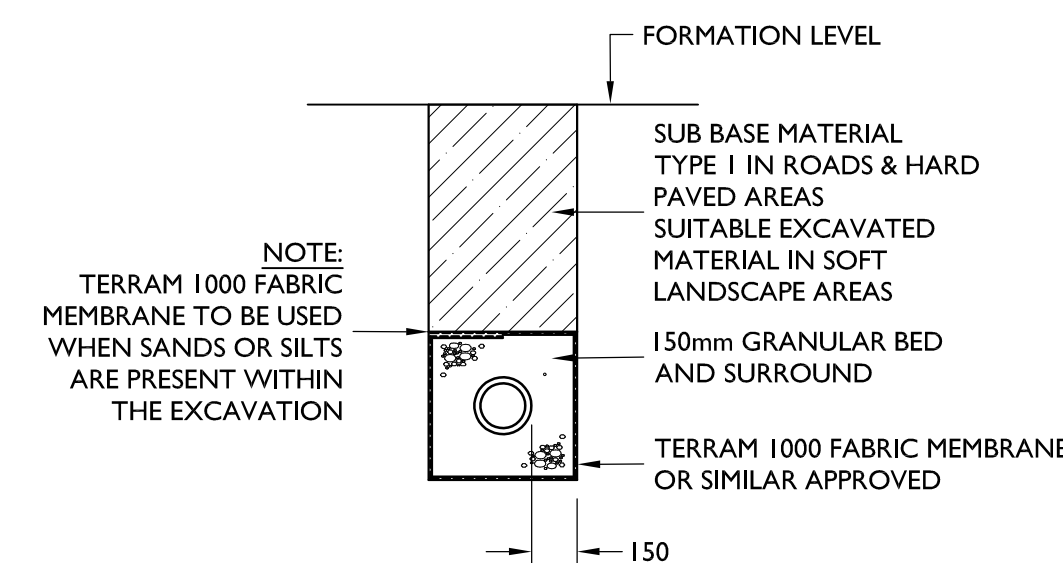
SCALE 1:20

1. DUCTILE IRON GULLY GRATING AND FRAME TO BS EN124 LOAD CLASS D400 BEDDED ON 10mm 1:3 SAND/CEMENT MORTAR (NON-ROCK DESIGN).
2. COVER AND FRAME TO BE SEATED ON 2 COURSES MIN. 4 COURSES MAX. OF ENGINEERING BRICKWORK CLASS "B"
3. GULLY POTS TO BE PRECAST CONCRETE TO BS 5911 PART 2 WITH 150mm THICK ST4 CONCRETE FOUNDATION AND SURROUND. OUTLET TO BE 150mm DIA., TRAPPED, WITH GALVANIZED METAL CHAIN AND STOPPER.
4. UNLESS OTHERWISE STATED PIPE CONNECTION BETWEEN MAIN RUN AND GULLY CONNECTION TO BE BEDDING TYPE Z.
5. MINIMUM WATERWAY OF GULLY TO BE 916cm.



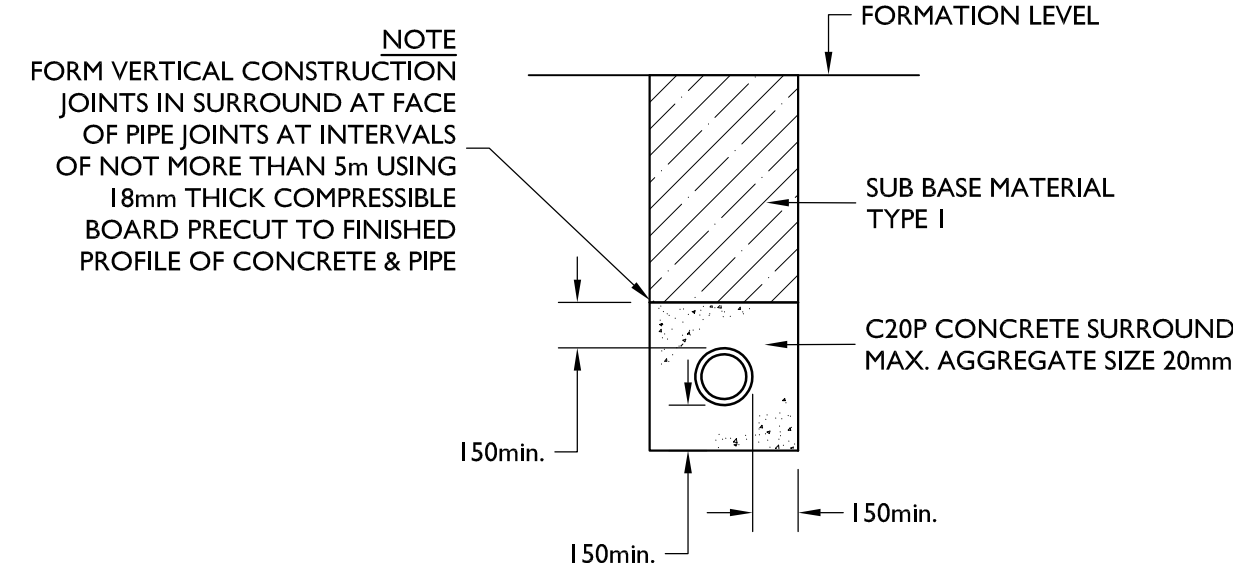
HYDROBRAKE DETAIL

SCALE 1:20



PIPE BEDDING - TYPE S

SCALE 1:25



PIPE BEDDING - TYPE Z

SCALE 1:25

NOTES

1. ALL LEVELS AS SHOWN ARE AS PER TOPOGRAPHICAL SURVEY.
2. CONSTRUCTION AND TESTING OF DRAINS AND SEWERS TO COMPLY WITH BS EN 1610. CONTRACTOR SHALL NOTE THAT THE GRANCES OF + OR - 5% OF THE PIPES INTERNAL DIAMETER MUST BE ACHIEVED UP TO A MAXIMUM OF 20mm
3. FOR MANHOLE CONSTRUCTION INFORMATION REFER TO STANDARD DETAILS DRAWINGS.
4. PRECAST MANHOLES SHALL COMPLY WITH BS EN 1917
5. POLYPROPYLENE CHAMBERS TO COMPLY WITH BS 7158.
6. BRICKWORK CHAMBERS WILL TO BE CONSTRUCTED FROM CLASS B ENGINEERING BRICKS COMPLYING WITH BS 3921. BRICKS SHALL ALSO BE FROST-RESISTANT CATEGORY F.
7. CLAY PIPES TO COMPLY TO BS EN 295
8. CONCRETE PIPES TO COMPLY TO BS EN 1916
9. TYPE OF PIPE "PERF" REFERS TO PERFORATED FILTER DRAINS TO COMPLY TO BS 4962.
10. PLASTIC PIPE ALTERNATIVES IN NON-AGGRESSIVE SOIL CONDITIONS PLASTIC PIPE ALTERNATIVES WILL BE DEEMED ACCEPTABLE IF THE CONTRACTOR INTENDS TO USE PLASTIC PIPEWORK IN ACCORDANCE WITH BS 4660 - THE FOLLOWING STANDARDS WILL BE REQUIRED:

DRAINAGE CONNECTIONS OF LESS THAN 150Ø SHALL BE SOLID WALL uPVC PIPES COMPLYING WITH BS EN 1401-1

PIPE SIZES 150-900Ø (TO BE USED IN FOUL OR COMBINED FLOW DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPE COMPLYING WITH WIS 4-35-01

PIPE SIZES 150-900Ø (TO BE USED IN SURFACE WATER DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPES WITH BBA & HAPAS ACCREDITATION.
11. THE CONTRACTOR SHALL ALSO NOTE THAT CONNECTIONS TO PUBLIC SEWERS & MATERIALS USED IS SUBJECT TO AGREEMENT WITH THE ADOPTING AUTHORITY AND THE CONTRACTOR SHALL THEREFORE ASSUME THAT TRADITIONAL MATERIALS MUST BE USED UNLESS EXPRESSIVELY INFORMED OTHERWISE.
12. MOULDED PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 75mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES. WHERE PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.
13. MOULDED MINI PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 35mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES. WHERE MINI PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

P02	DESIGN DEVELOPED	RH	MM	JP	18.03.21
REV	DESCRIPTION	BY	CHK	APR	DATE



PURPOSE OF ISSUE	STATUS
PRELIMINARY	-

PROJECT
WYNNSTAY PARK RUABON

TITLE
DRAINAGE SCHEME CONSTRUCTION DETAILS I

CLIENT		
 GRATTON OAKES		
DRAWN BY	CHECKED BY	APPROVED BY
RH	MM	JP
DATE	SCALE (@ A1)	PROJECT NUMBER
08.03.2021	As Shown	19010
DRAWING NUMBER		REV
508		P01