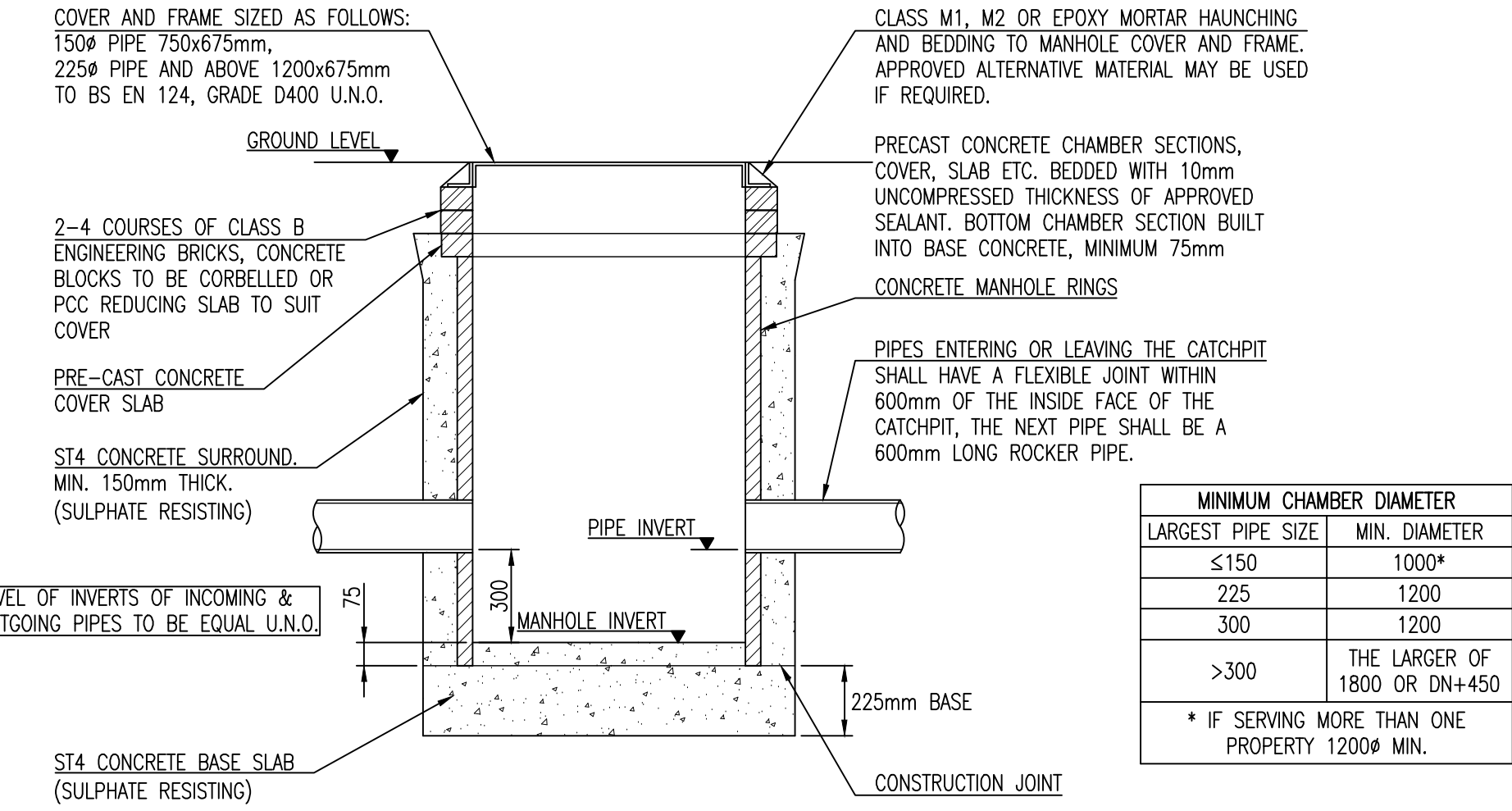


MANHOLE SCHEDULE – SURFACE WATER

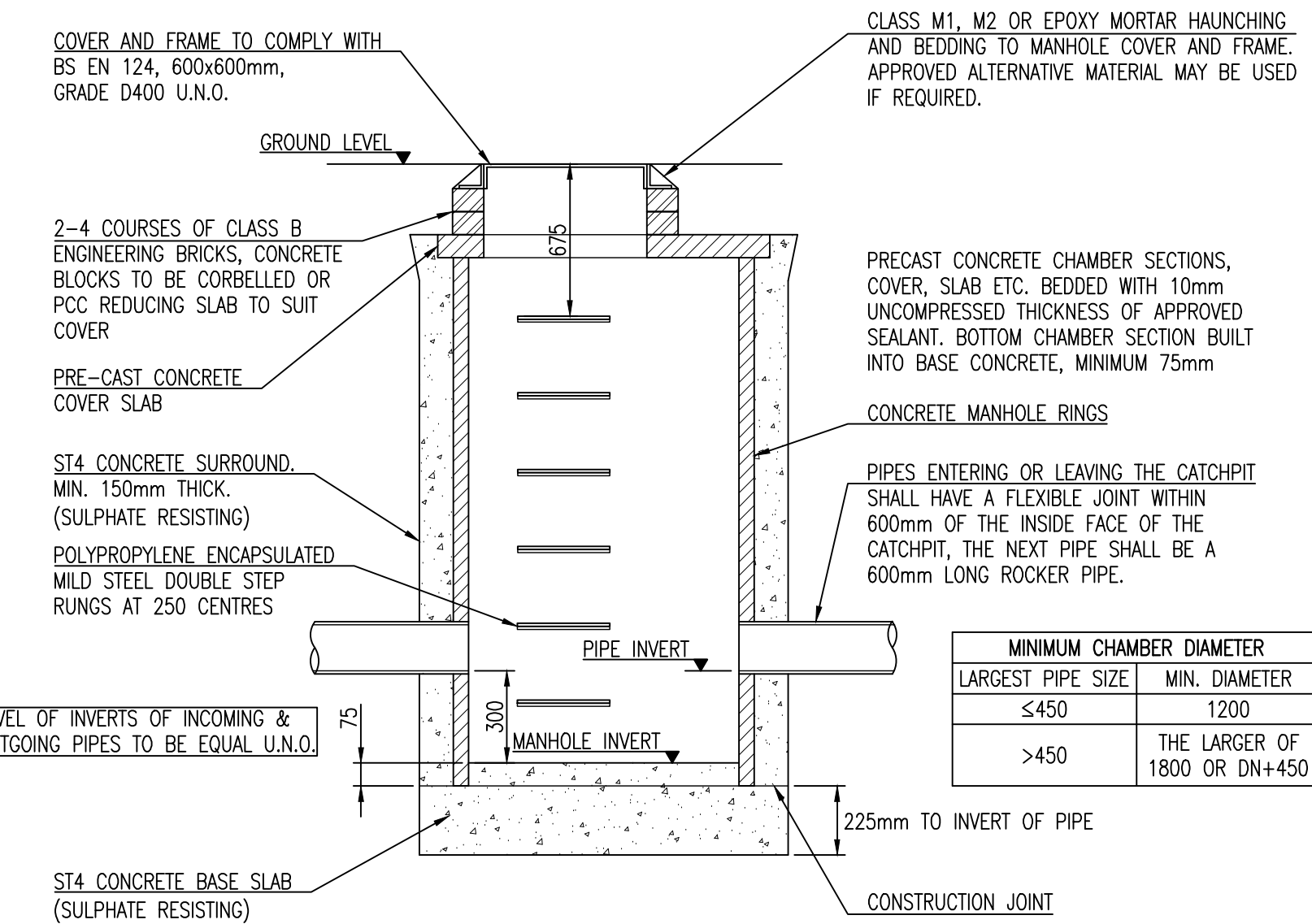
MANHOLE REFERENCE	COVER LEVEL	CONNECTS	INVERTS	PIPE DIA.	SOFFIT DEPTH (m)	MANHOLE SIZE	MANHOLE TYPE	COVER DETAILS
SW100	5.500		1 2 0	4.250 4.250 300	ALL 1.100	1200Ø	CIRCULAR PRE-CAST	D400 1200x675
SW101	5.500		1 2 3 4 0	3.950 4.100 4.100 4.100 300	ALL 1.250	1200Ø	CIRCULAR PRE-CAST	D400 1200x675
SW102	5.500		1 2 3 4 0	3.950 4.100 4.100 4.100 300	ALL 1.250	1200Ø	CIRCULAR PRE-CAST	D400 1200x675
SW103	5.500		1 2 3 0	4.000 3.925 3.850 3.775 300	ALL 1.350	1800Ø	CIRCULAR PRE-CAST (CATCHPIT)	D400 1200x675
SW104	5.650		1 2 3 4 0	4.075 4.075 4.075 4.075 300	ALL 1.425	1050Ø	CIRCULAR PRE-CAST	D400 750x675
SW105	5.500		1 2 3 4 0	3.845 3.845 3.845 3.845 300	ALL 1.505	1200Ø	CIRCULAR PRE-CAST (CATCHPIT)	D400 600x600
SW106	5.525		1 2 3 4 0	3.525 3.525 3.525 3.525 300	1.625	1200Ø (TBC)	CIRCULAR PRE-CAST (CATCHPIT)	D400 600x600

PUMP CHAMBER:
5 L/S MAX PUMP RATE ON OUTGOING
PUMP MAIN. CHAMBER TO HAVE
≈1m³ STORAGE, REFER TO DETAIL.



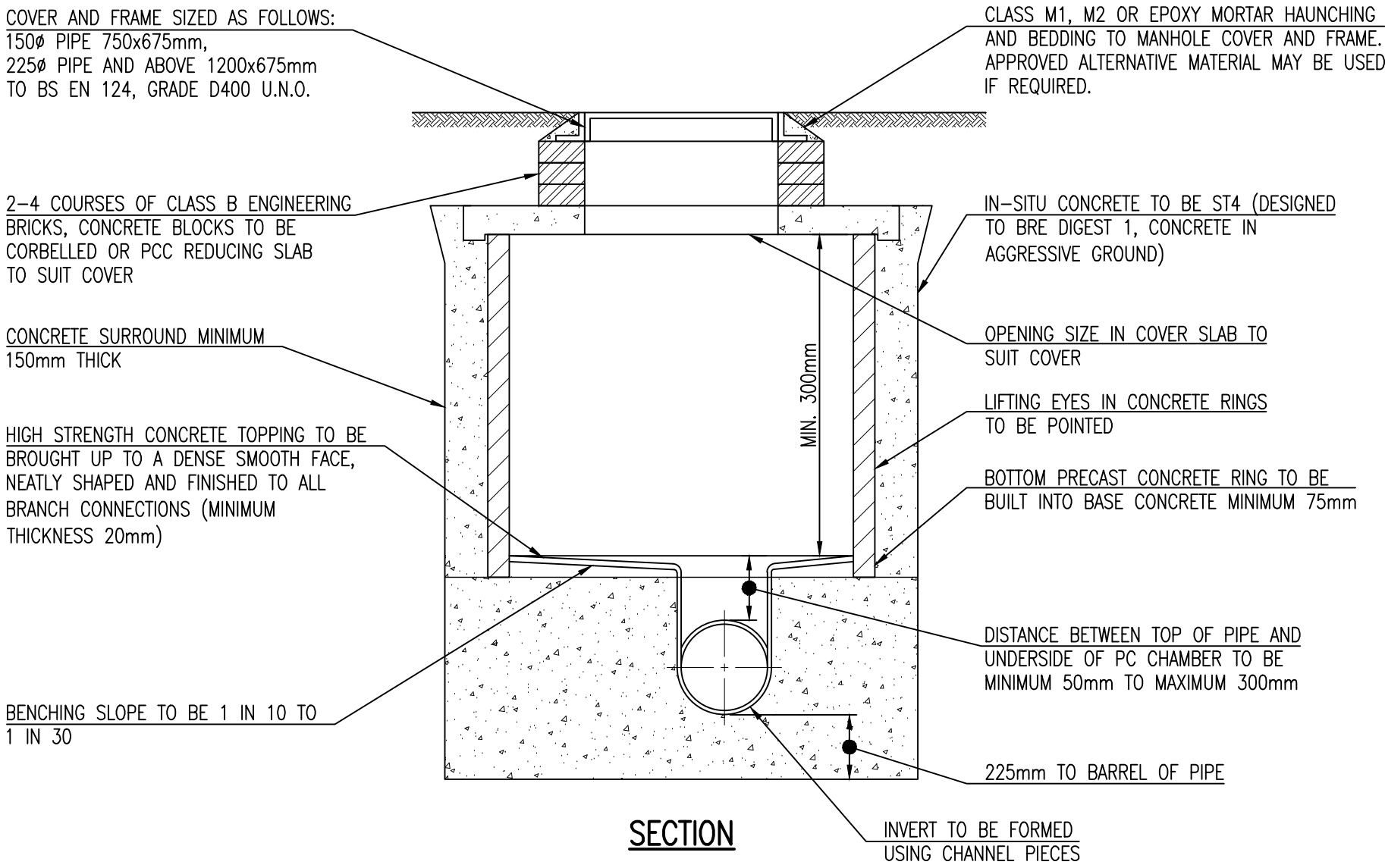
CIRCULAR PRE-CAST CATCHPIT MANHOLE DETAIL
LESS THAN 1.5m TO SOFFIT

SCALE 1:20



CIRCULAR PRE-CAST CATCHPIT MANHOLE DETAIL
1.5-3.0m TO SOFFIT

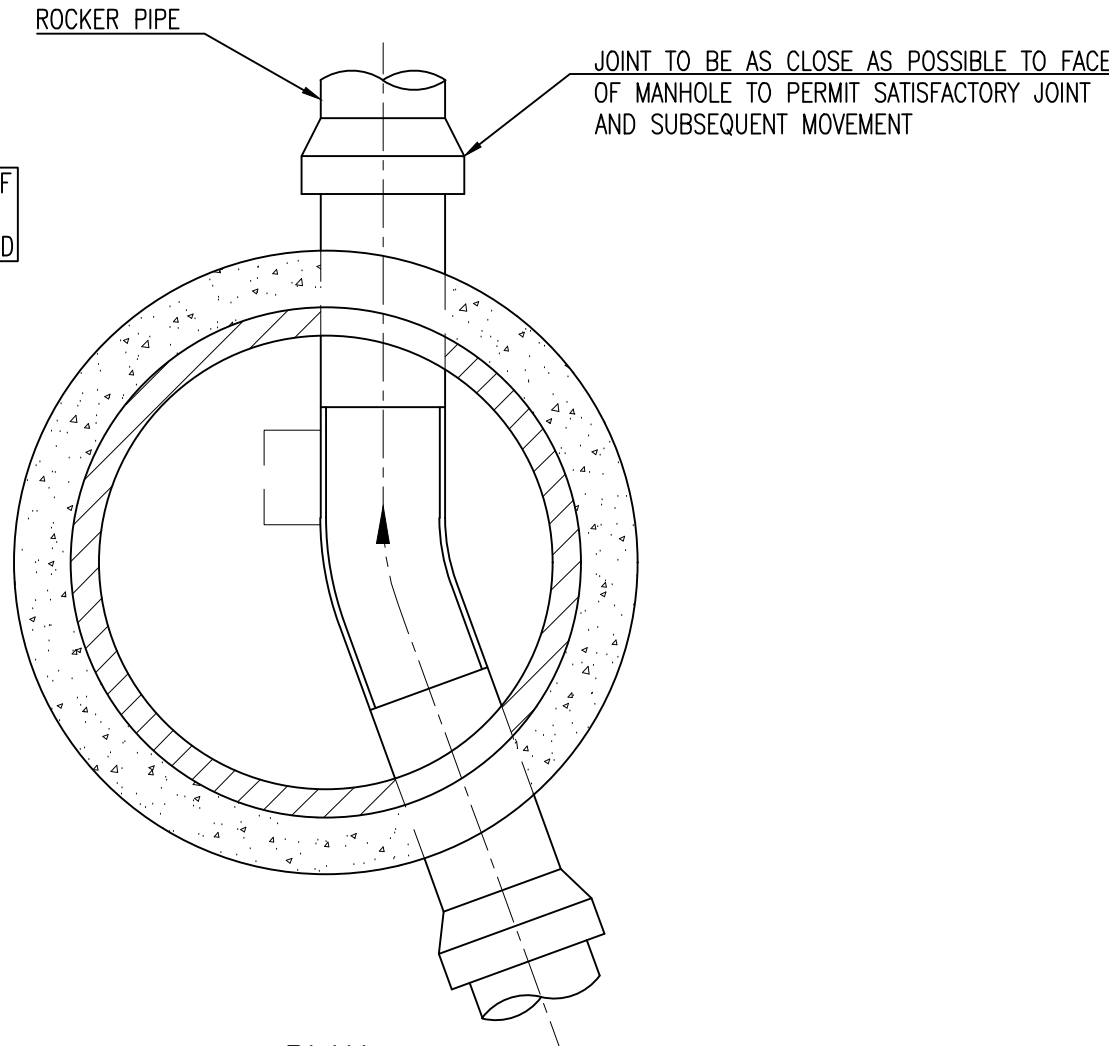
SCALE 1:20



SECTION

SHOULD THE CONTRACTOR PREFER THE USE OF THERMOPLASTIC MANHOLE CHAMBER RINGS COMPLYING WITH BS EN 13598-2 IS PERMITTED

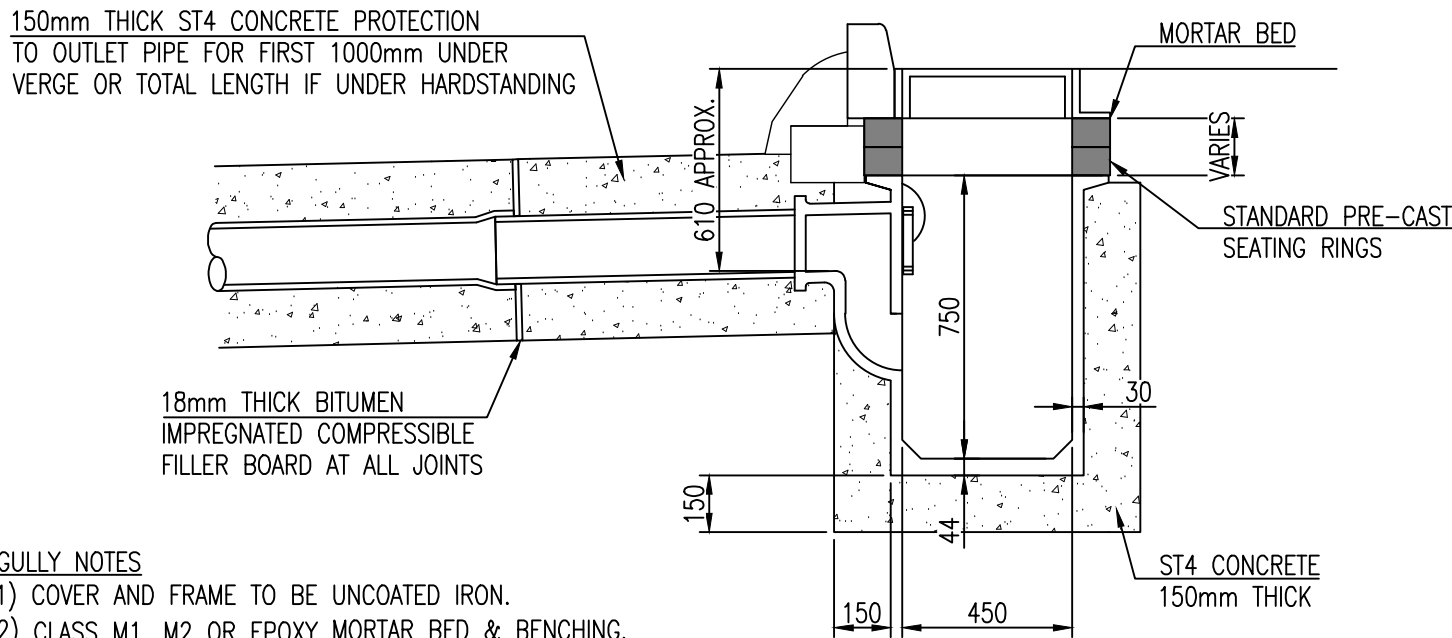
MINIMUM CHAMBER DIAMETER	
LARGEST PIPE SIZE	MIN. DIAMETER
≤150	1000*
225	1200
300	1200
>300	THE LARGER OF 1800 OR DN+450
* IF SERVING MORE THAN ONE PROPERTY 1200Ø MIN.	



PLAN

CIRCULAR PRE-CAST MANHOLE DETAIL
LESS THAN 1.5m TO SOFFIT

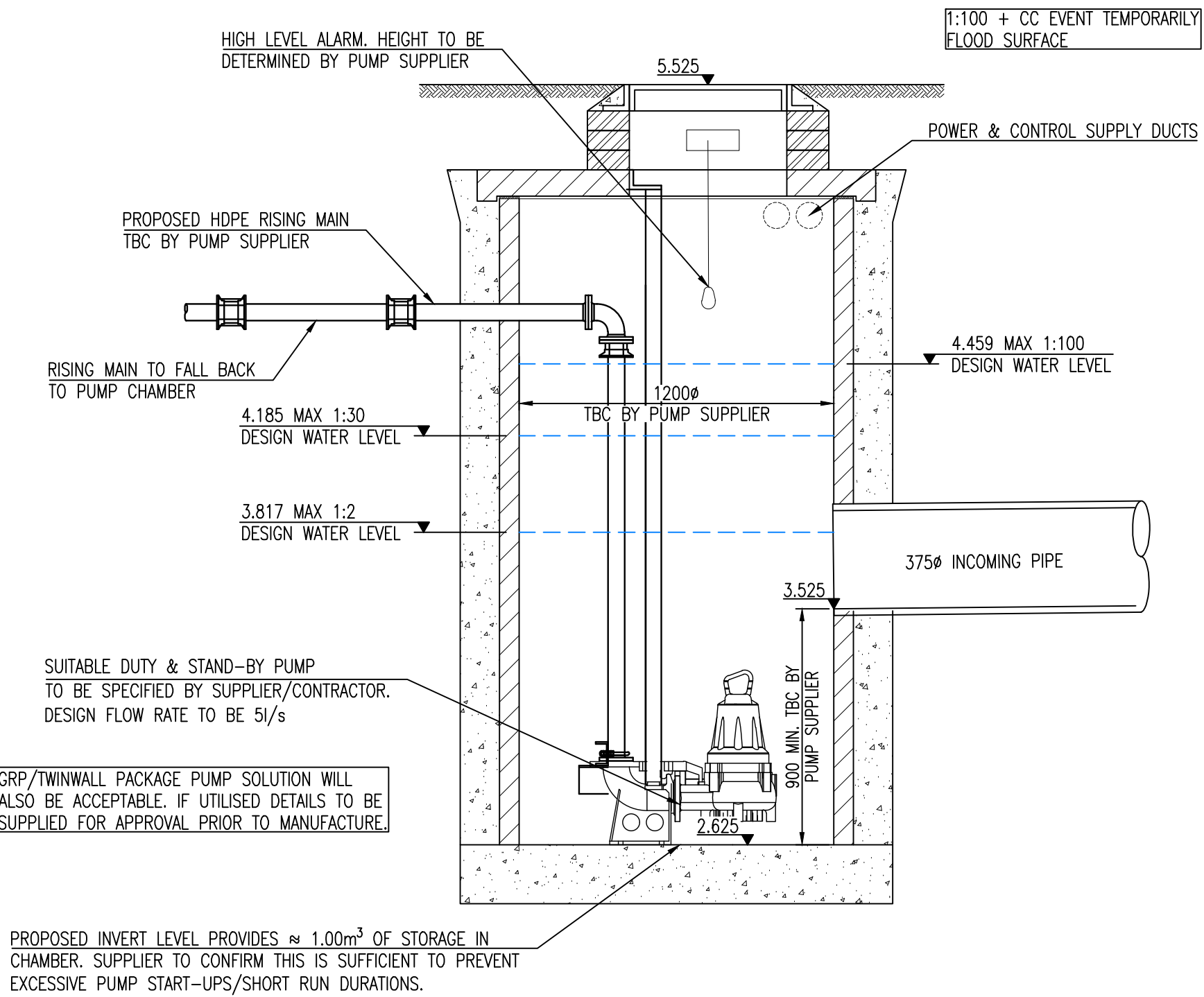
SCALE 1:20



TYPICAL TRAPPED
ROAD GULLY DETAIL

SCALE 1:20

- GULLY NOTES
- 1) COVER AND FRAME TO BE UNCOATED IRON.
 - 2) CLASS M1, M2 OR EPOXY MORTAR BED & BENCHING.
 - 3) STANDARD PRE-CAST SEATING RINGS TO COMPLY TO BS 5911-4:2010.
 - 4) ALL IN SITU CONCRETE TO BE ST4 WITH SULPHATE RESISTING CEMENT UNLESS AGREED OTHERWISE.
 - 5) POSITION OF OUTLET PIPE VARIES IN PLAN.
 - 6) INSITU ST4 CONCRETE 150mm THICK SURROUND TO OUTLET PIPE FOR FIRST ONE METRE UNDER VERGE OR TOTAL LENGTH IF UNDER CARRIAGEWAY.
 - 7) WHERE GRATING IS TO BE TRAFFICKED OR LAID AGAINST WITHIN 24 HOURS OF FRAME BEING PLACED IN POSITION, THEN A SUITABLE ULTRA RAPID HARDENING MORTAR AND CONCRETE (MONOSET 241 OR SIMILAR) SHALL BE USED TO BED COVER AND FRAME.



PROPOSED PUMP CHAMBER [SW06] DETAILS

SCALE 1:20

GENERAL DRAINAGE NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DETAILS.
2. ALL MATERIAL & WORKMANSHIP TO BE IN ACCORDANCE WITH 'SEWERAGE SECTOR GUIDANCE APPENDIX C: DESIGN AND CONSTRUCTION GUIDANCE'.
3. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH STANDARDS, B.S. CODES OF PRACTICE & BUILDING REGULATIONS.
4. REFER TO SSG DCG SPECIFICATION FOR CONCRETE GRADES & SAND/CEMENT MORTAR GRADES. ALL PRECAST & IN-SITU CONCRETE TO CONTAIN A MINIMUM CLASS 3 SUPHATE RESISTING CEMENT.
5. PRE-FORMED CHANNELS ARE TO BE USED AT MANHOLES.
6. GRANULITHIC CONCRETE BENCHING TO BE STEEL TROWELLED TO A DENSE SMOOTH FACE NEATLY SHAPED & FINISHED TO ALL BRANCH CONNECTIONS & LAID IN ACCORDANCE WITH THE SPECIFICATION.
7. ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.
8. PIPE BENDS TO SUIT DIRECTION OF FLOW.
9. MANHOLE COVERS AND FRAMES TO BE TO EN 124. USE GRADE D400 COVERS IN VEHICULAR MOVEMENT AREAS AND GRADE A15 COVERS IN NON-VEHICULAR AREAS.
10. ALL TRENCHES UNDER CARRIAGEWAY TO BE BACKFILLED WITH TYPE 1 SUB-BASE, WELL COMPACTED IN LAYERS NOT EXCEEDING 150mm LOOSE DEPTH.