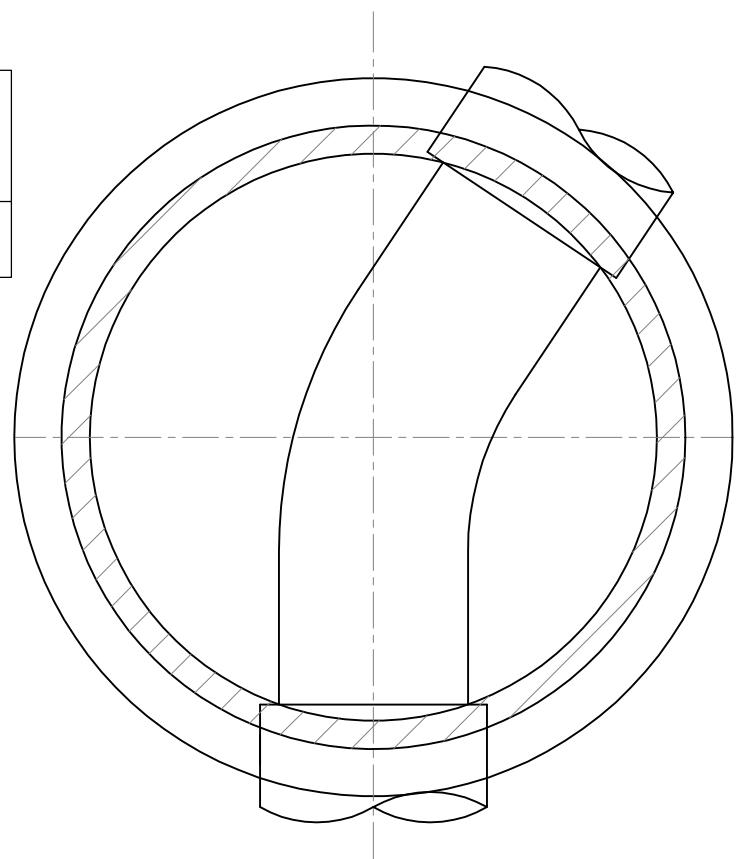
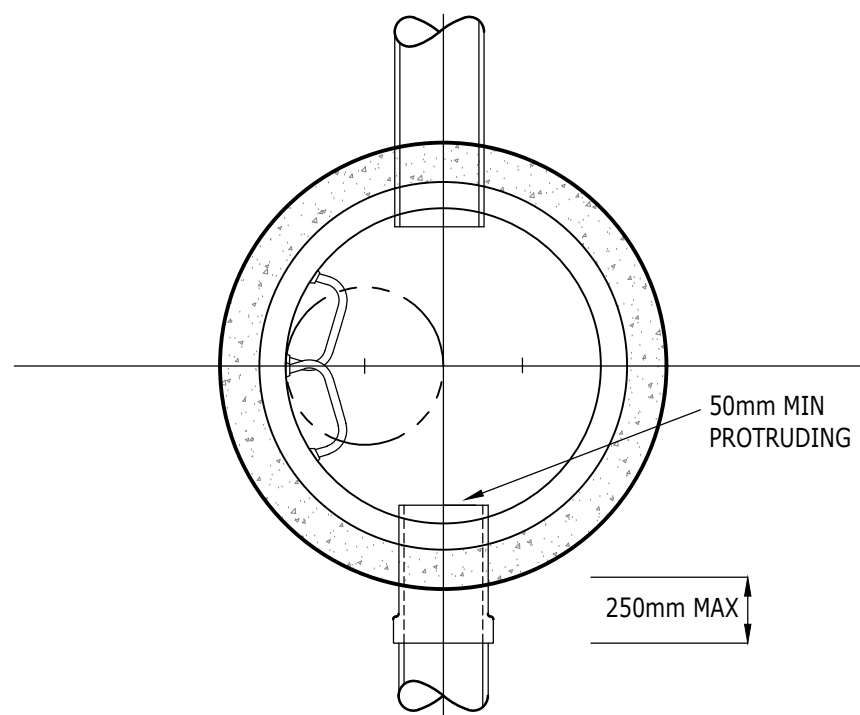


SHAFT DIAMETERS	
DIA OF LARGEST PIPE IN MH (mm)	INTERNAL DIA. OF MH (mm)
LESS THAN 375	1200

NOTE:
IF PIPE DIAMETER IS 375mm OR ABOVE
USE 1500mm DIAMETER TYPE B.

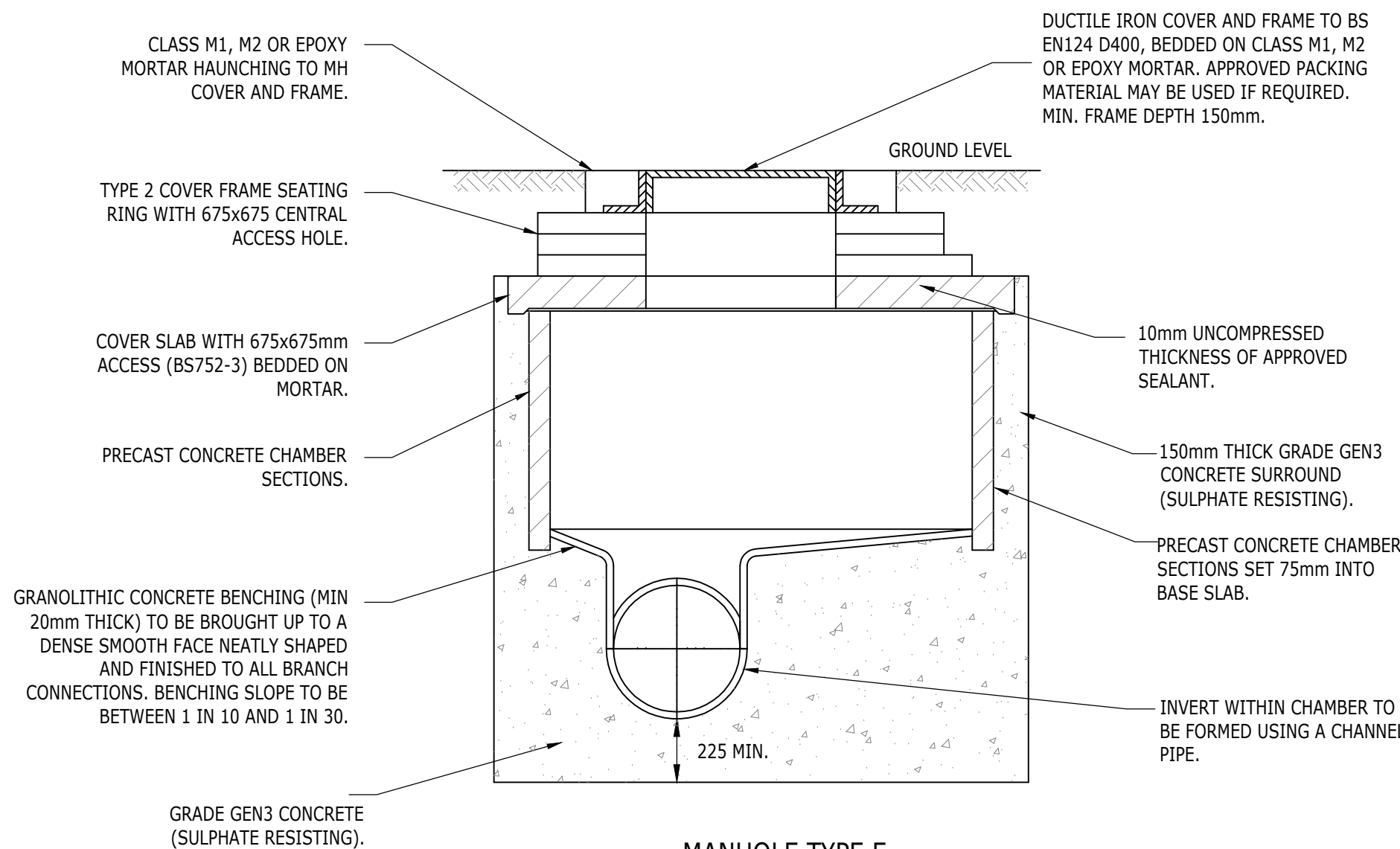


ALL PIPES ENTERING OR LEAVING
MANHOLES SHALL HAVE A FLEXIBLE
JOINT WITHIN 600mm OF THE INSIDE
FACE OF THE MANHOLE. THE NEXT
PIPE SHALL BE A SHORT "ROCKER
PIPE" 600mm LONG.

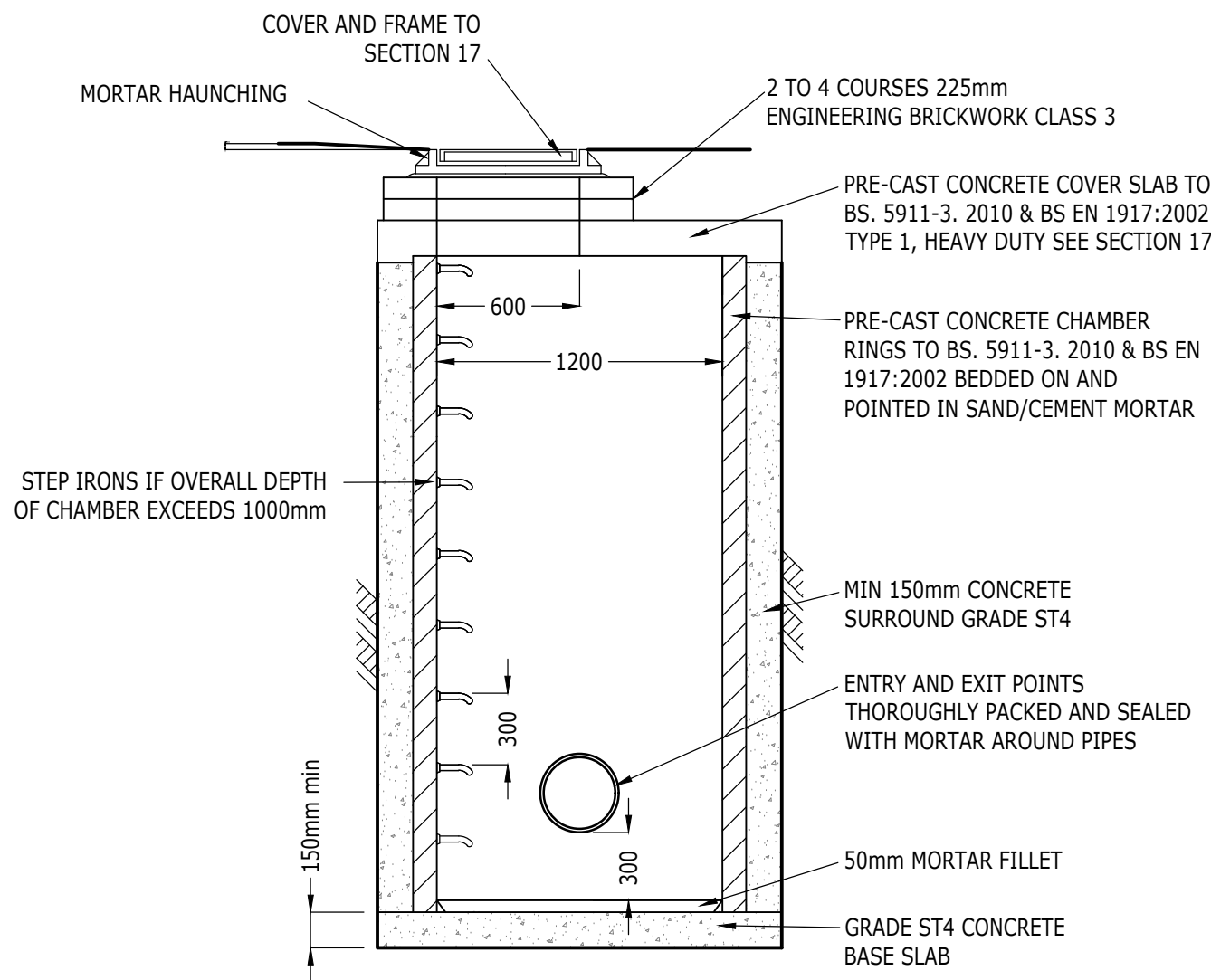


- NOTES:
- MANHOLE RINGS, SLAB AND ST 1 CONCRETE TO BE MADE USING SULPHATE RESISTING CONCRETE.
 - EXCESS EXCAVATION CONCRETE BACKFILL TO BE ST 1 CONCRETE REFER TO MANHOLE SCHEDULES FOR RING DIAMETER

PLAN

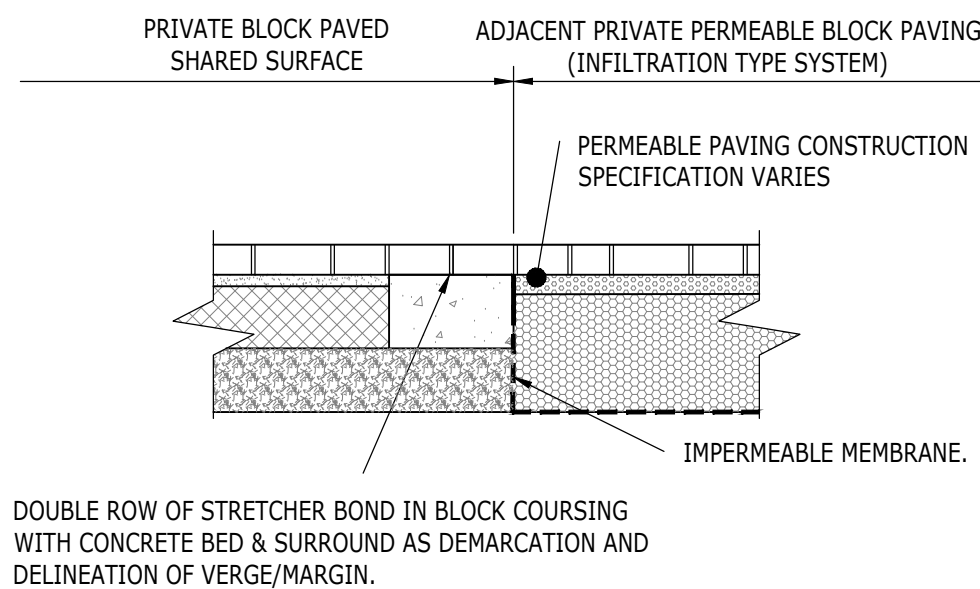


MANHOLE TYPE E
(DEPTH TO SOFFIT 1.00m TO 1.50m)
(1:20)

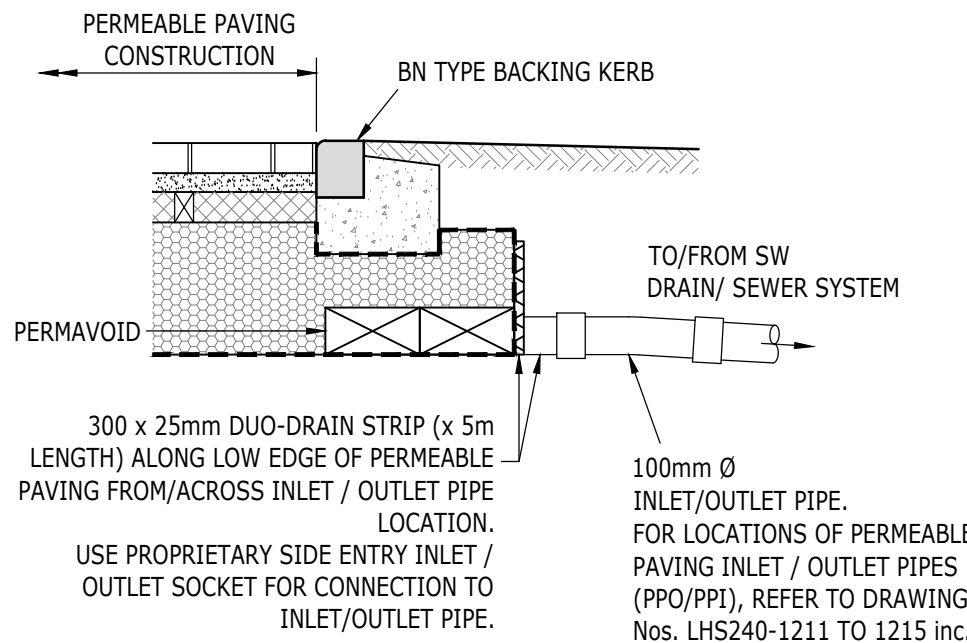


SECTION

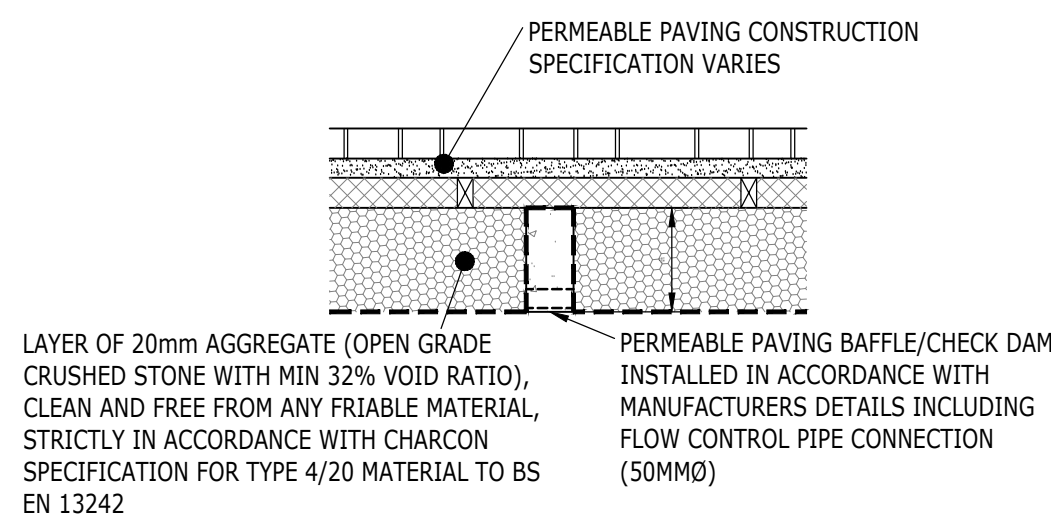
TYPICAL CATCHPIT DETAIL
(1:10)



**TYPICAL FLUSH INTERFACE BETWEEN PRIVATE BLOCK PAVED
CARRIAGEWAY & PRIVATE PERMEABLE PAVED CONSTRUCTION**
(1:20)

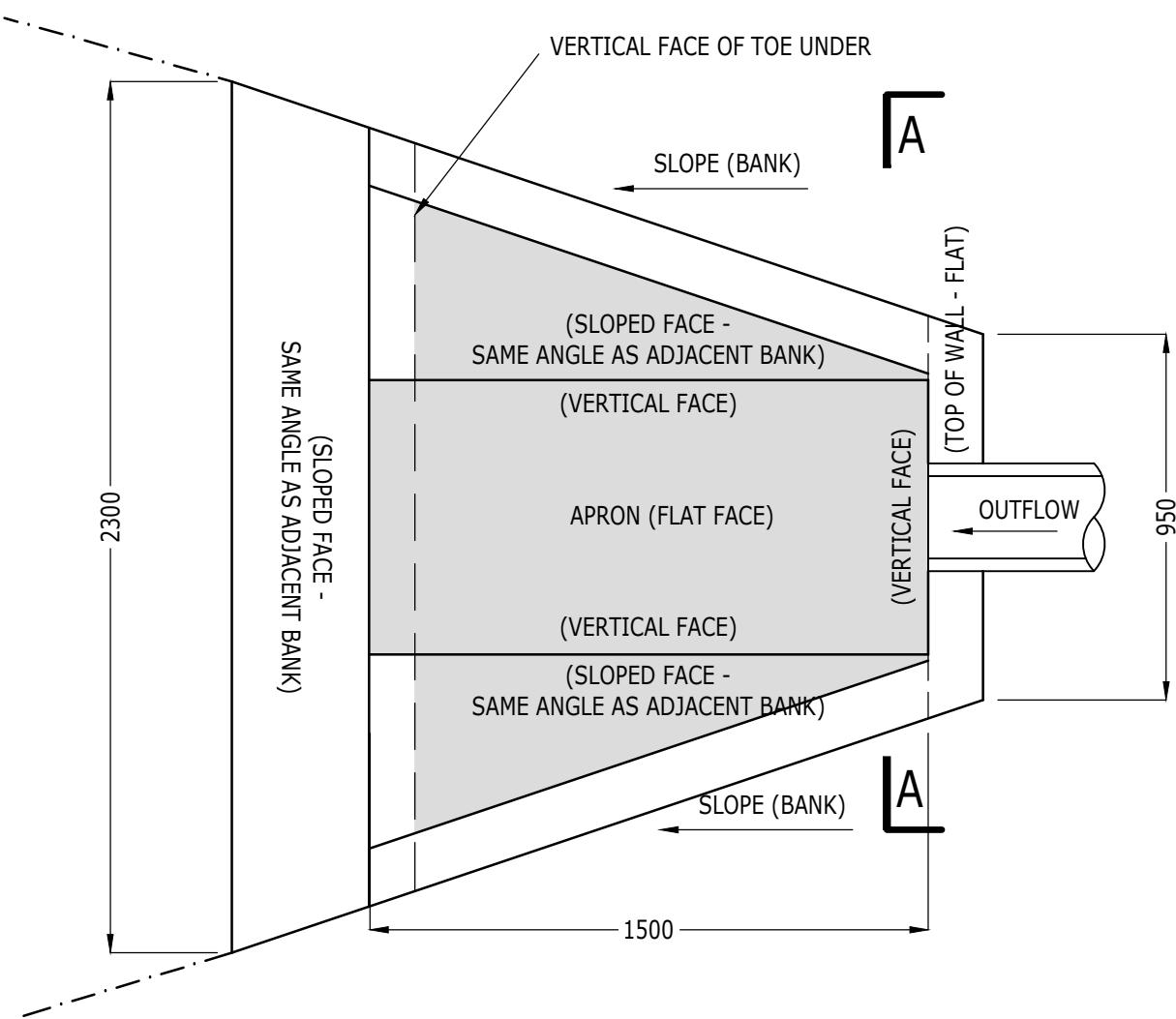


**TYPICAL PERMEABLE PAVING
INLET / OUTLET PIPE DETAIL**
(1:20)

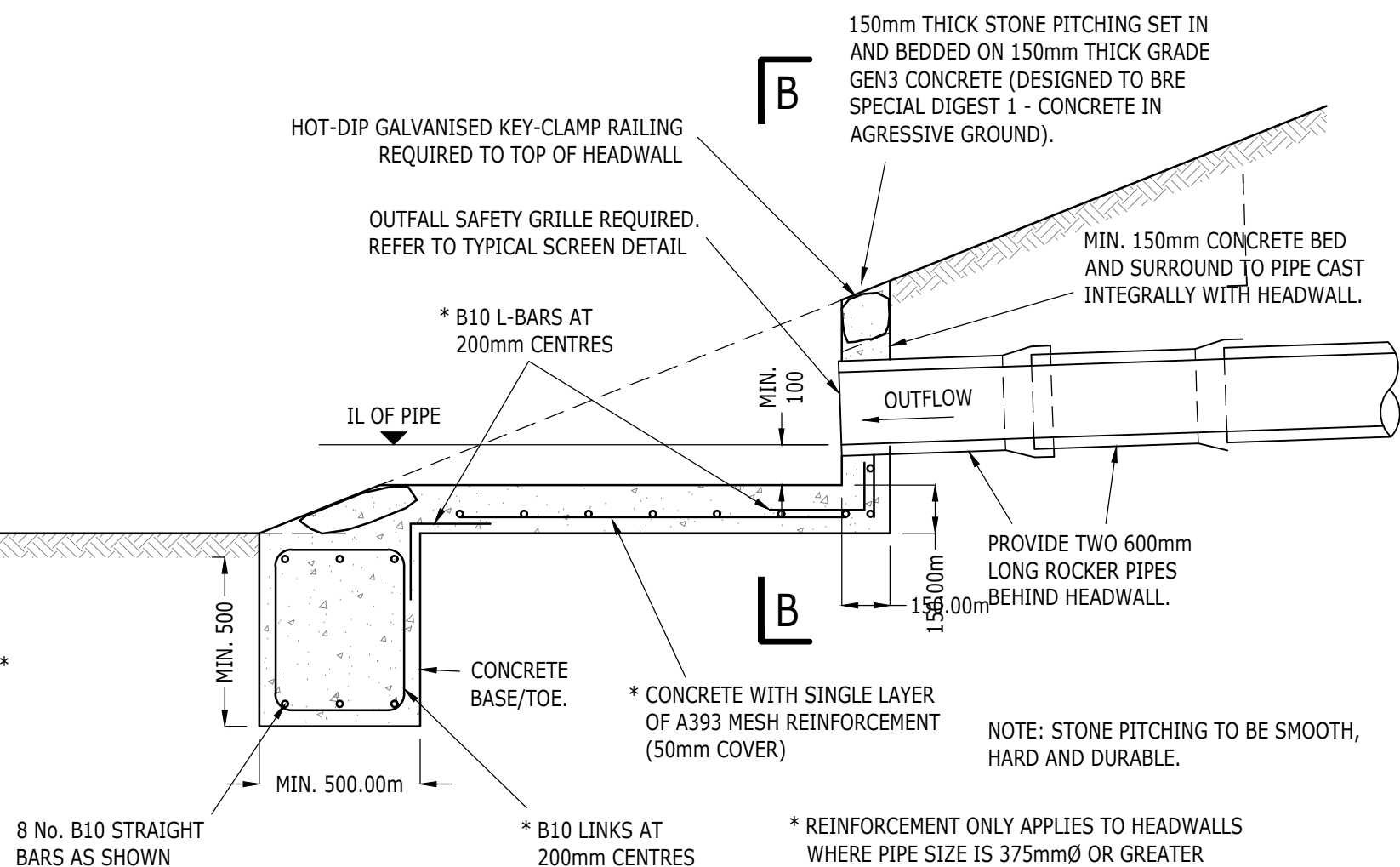


**TYPICAL PERMEABLE PAVING
BAFFLE / CHECK DAM DETAIL**
(1:20)

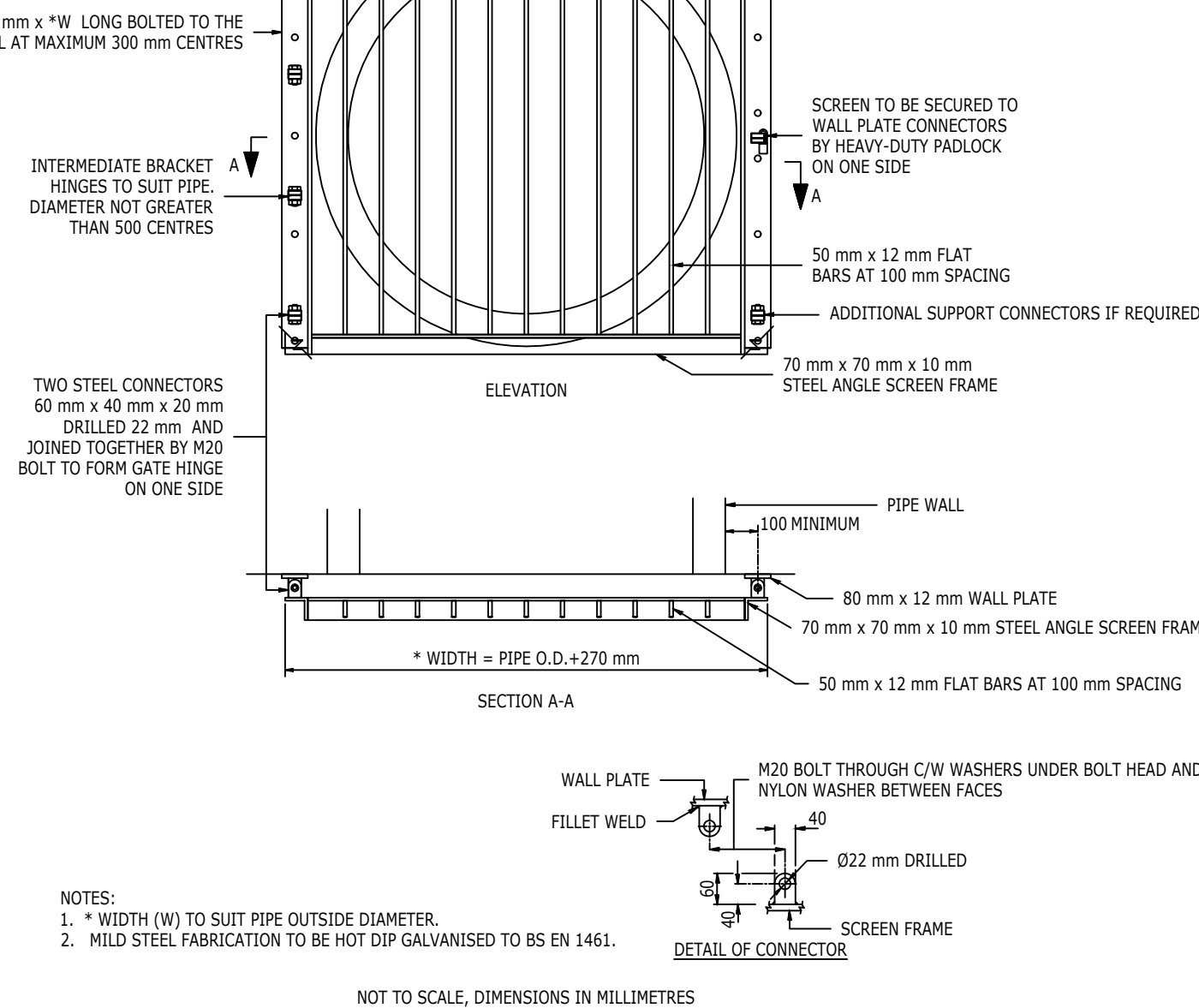
CONSTRUCTION
ISSUE



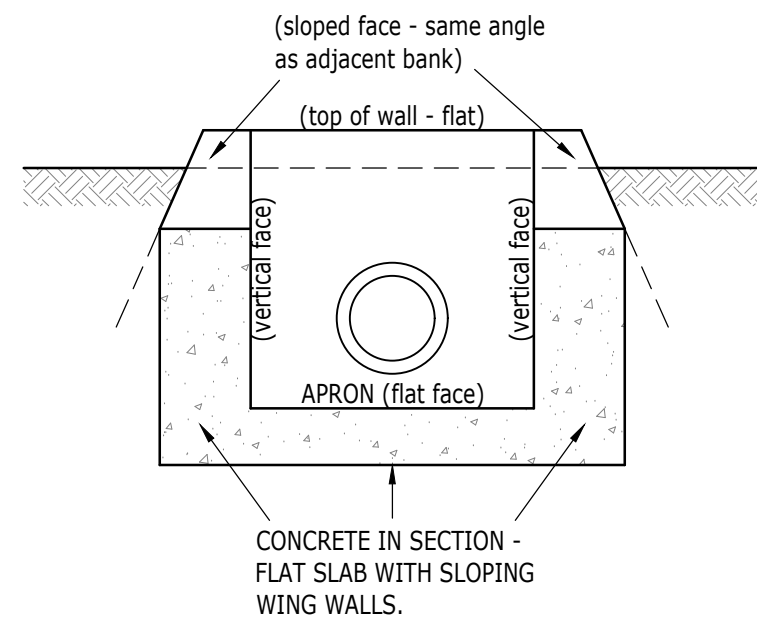
HEADWALL / OUTFALL TO POND



**TYPICAL SECTION A-A THROUGH
HEADWALL / PIPE OUTFALL TO POND**



TYPICAL OUTFALL SAFETY GRILLE



SECTION B-B

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION, INC. RISK ASSESSMENTS (SEE COM NOTES) AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
- DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN METRES UNLESS OTHERWISE STATED.
- ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
- NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.
- ALL PRIVATE DRAINAGE IS TO COMPLY AND BE LAID IN ACCORDANCE WITH CURRENT PART H OF BUILDING REGULATIONS , BS 8301 AND BS 5955.
- REFER TO ARCHITECT'S HOUSE TYPE (WORKING) DRAWINGS FOR EXACT POSITION OF DRAINAGE POINTS.
- POSITION & INVERT LEVELS OF ALL EXISTING MANHOLES, SEWERS AND LATERALS TO BE CONFIRMED PRIOR TO CONSTRUCTION & ANY DISCREPANCIES REPORTED TO THE ENGINEER.
- ALL DRAIN AND SEWER PIPES ARE TO BE LAID SOFFIT TO SOFFIT, UNLESS SHOWN OTHERWISE (SEE ALSO MANHOLE SCHEDULE DRAWINGS).
- ALL PLOT DRAINAGE TO BE 100mm Ø UNLESS SHOWN OTHERWISE, LAID IN ACCORDANCE WITH BS 8301.
- ALL MATERIALS SHALL COMPLY TO THE BSI KITE MARK CERTIFICATION SCHEME AND MUST BE MARKED ACCORDINGLY.
- COVER AND FRAMES TO MANHOLES/INSPECTION CHAMBERS TO COMPLY WITH BS EN124. REFER TO PRIVATE DRAINAGE CONSTRUCTION DETAILS DRAWING.
- WHERE FINISHED GROUND LEVELS FALL TOWARDS BUILDING, AN OPEN GULLY IS TO BE PROVIDED AT THE FOOT OF ALL RAINWATER PIPES. ALL RAINWATER PIPES TO HAVE RODDING ACCESS.
- FINAL POSITIONS OF INSPECTION CHAMBERS WITHIN PRIVATE AREAS ARE SUBJECT TO CONFIRMATION ON SITE TO SUIT PIPE CONFIGURATIONS AND CHAMBER INLET POSITIONS.
- WHERE A DRAIN RUN PASSES THROUGH A WALL OR FOUNDATION IT IS NECESSARY TO:
 - FORM AN OPENING USING A CONCRETE LINTEL WITH AT LEAST 50mm CLEARANCE AROUND THE PIPE AND THE OPENINGS MASKED WITH RIGID SHEET MATERIAL TO PREVENT ENTRY OF FILL OR VERMIN, OR;
 - BUILD IN A LENGTH OF PIPE WITH ITS JOINTS AS CLOSE AS POSSIBLE TO THE WALL FACES (150mm MAXIMUM) AND CONNECTED ON EACH SIDE TO 600mm LONG ROCKER PIPES WITH FLEXIBLE JOINTS.
- PLOT DRAINAGE TO BE BEDDED ON GRANULAR MATERIAL AND BACKFILLED WITH SUITABLE CLEAN MATERIAL, AS DESCRIBED ON THE PRIVATE DRAINAGE CONSTRUCTION DETAILS DRAWINGS. SEE ALSO SHALLOW DRAINAGE TRENCH DETAIL AND PIPE RUNS NEAR BUILDINGS DETAIL FOR CONCRETE BED AND SURROUND PIPE PROTECTION MEASURES WHERE APPLICABLE.
- BACKFILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 300mm (UNCOMPACTED THICKNESS), EACH LAYER BEING WELL COMPACTED. MECHANICAL COMPACTION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm OF COMPACTED MATERIAL ABOVE THE CROWN OF THE PIPE.
- ALL DRAIN CONNECTIONS BENEATH THE HIGHWAY ARE TO HAVE MINIMUM 150mm CONCRETE BED AND SURROUND, WHERE COVER IS LESS THAN 1.2m.
- REFER TO PRE-TENDER HEALTH & SAFETY PLAN & CONSTRUCTION PHASE HEALTH & SAFETY PLAN PRIOR TO THE COMMENCEMENT OF WORKS.

C1	ISSUED FOR CONSTRUCTION	MJR	JM	GH	09.08.19
Rev	Description	Dwn	Chk	App	Date

ARDENT CONSULTING ENGINEERS

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London
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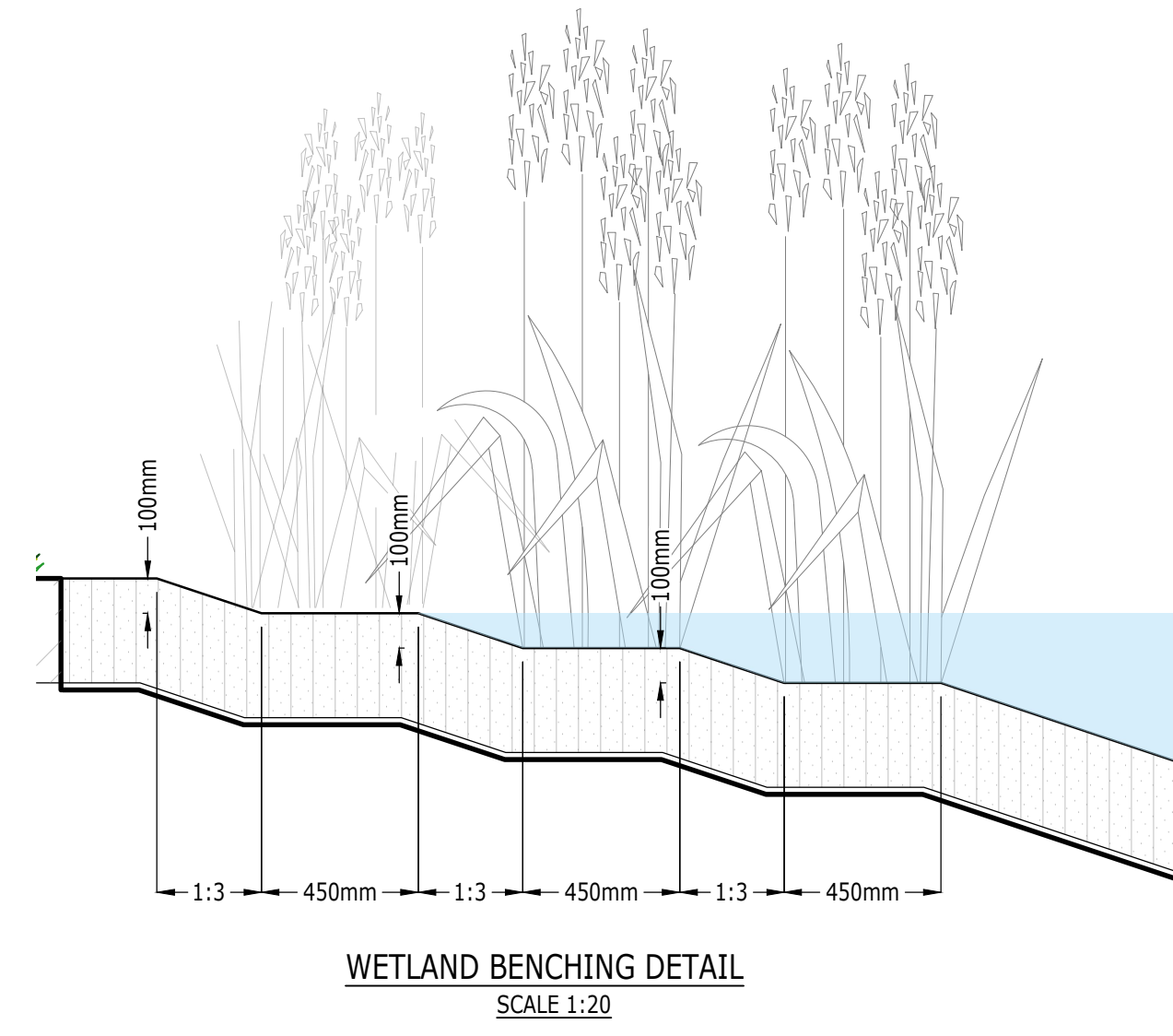
Tel: 020 7680 4088
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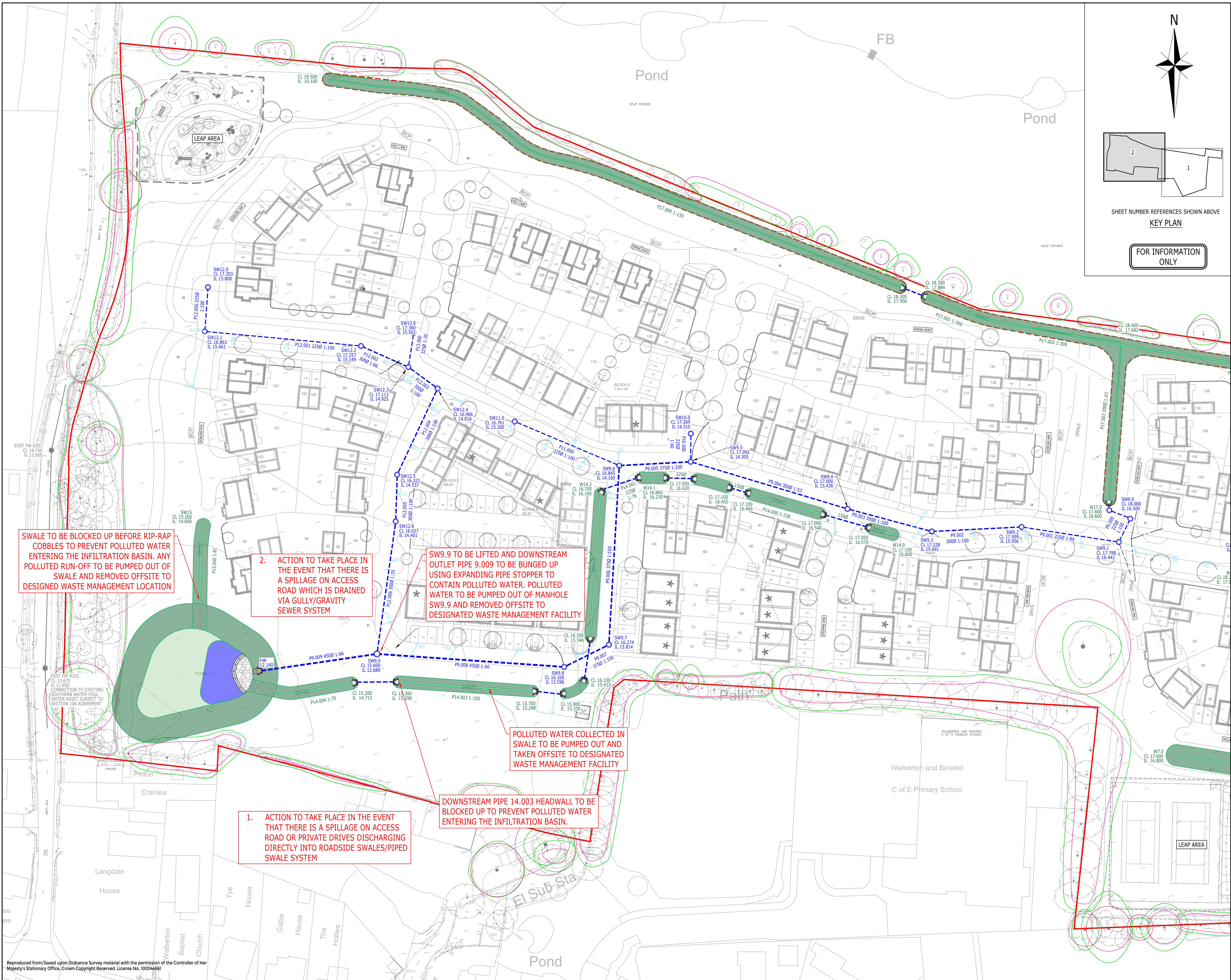
Client					
LINDEN HOMES SOUTH					
Project Title:					
LAND EAST OF TYE LANE, WALBERTON					
Drawing Title:					
MAIN DRAINAGE CONSTRUCTION DETAILS (SHEET 2 OF 3)					
A1 Scale	Date	Designed by			
1:20	APRIL 2019	JM			
Drawn by	Checked by	Approved by			
MJR	JM	GH			
Drawing Number					Rev
LHS240-1222					C1



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(1:20)	JS	JM	GH
Drawing Number	LHS240-1223	Rev	C2

APPENDIX G

Surface Water Drainage Action Plan (Sheet 2 of 2) (Drawing number
LHS240-1251)



NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION, INC. RISK ASSESSMENTS (SEE CDM NOTES) AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
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- ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
- NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.

CDM NOTES:

- THE ATTENTION OF THE CLIENT AND THE PRINCIPAL CONTRACTOR IS DRAWN TO THE FOLLOWING POTENTIAL RISKS IN CONJUNCTION WITH THE PROPOSED ON-SITE AND OFF-SITE WORKS AS DESIGNED FOR THIS PROJECT:
- WORKS IN THE VICINITY OF LIVE SERVICES WILL BE NECESSARY AND THE ADVICE OF ALL STATUTORY SERVICE COMPANIES MUST BE SOUGHT BEFORE ANY WORKS COMMENCE.
- WORKS WITHIN AND ADJUTING THE EXISTING HIGHWAY WILL ENTAIL TRAFFIC HAZARDS AND ALL APPROPRIATE SAFETY MEASURES INCLUDING BARRIERS, SIGNS AND LIGHTING MUST BE UNDERTAKEN TO THE APPROVAL OF THE LOCAL AUTHORITY, THE HIGHWAY AUTHORITY AND THE POLICE.
- HAZARDOUS MATERIALS INCLUDING CEMENT AND BITUMINOUS MATERIALS ARE SPECIFIED AND THE MANUFACTURER'S ADVICE ON SAFE HANDLING PROCEDURES MUST BE OBTAINED AND MADE CLEAR TO ALL OPERATIVES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE VICINITY OF THE WORKS AND ENSURE THESE ARE PROTECTED THROUGHOUT THE DURATION OF THE WORKS. ALL UTILITY PLANT SHOULD BE CLEARLY MARKED ON THE GROUND PRIOR TO COMMENCEMENT OF THE WORKS.
- THE CONTRACTOR MUST ENSURE ALL WORKING AREAS ARE FULLY SECURE.

N

2 1

SHEET NUMBER REFERENCES SHOWN ABOVE

KEY PLAN

FOR INFORMATION ONLY

Rev	Description	Dm	Chk	App	Date
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Client					
LINDEN HOMES SOUTH					
Project Title: LAND EAST OF TYE LANE, WALBERTON					
Drawing Title: SURFACE WATER DRAINAGE ACTION PLAN (SHEET 2 OF 2)					
A1 Scale		Date		Designed by	
1:500		29.11.24		MJR	
Drawn by		Checked by		Approved by	
MJR		MJR		JEC	
Drawing Number		LHS240-1251		Rev	