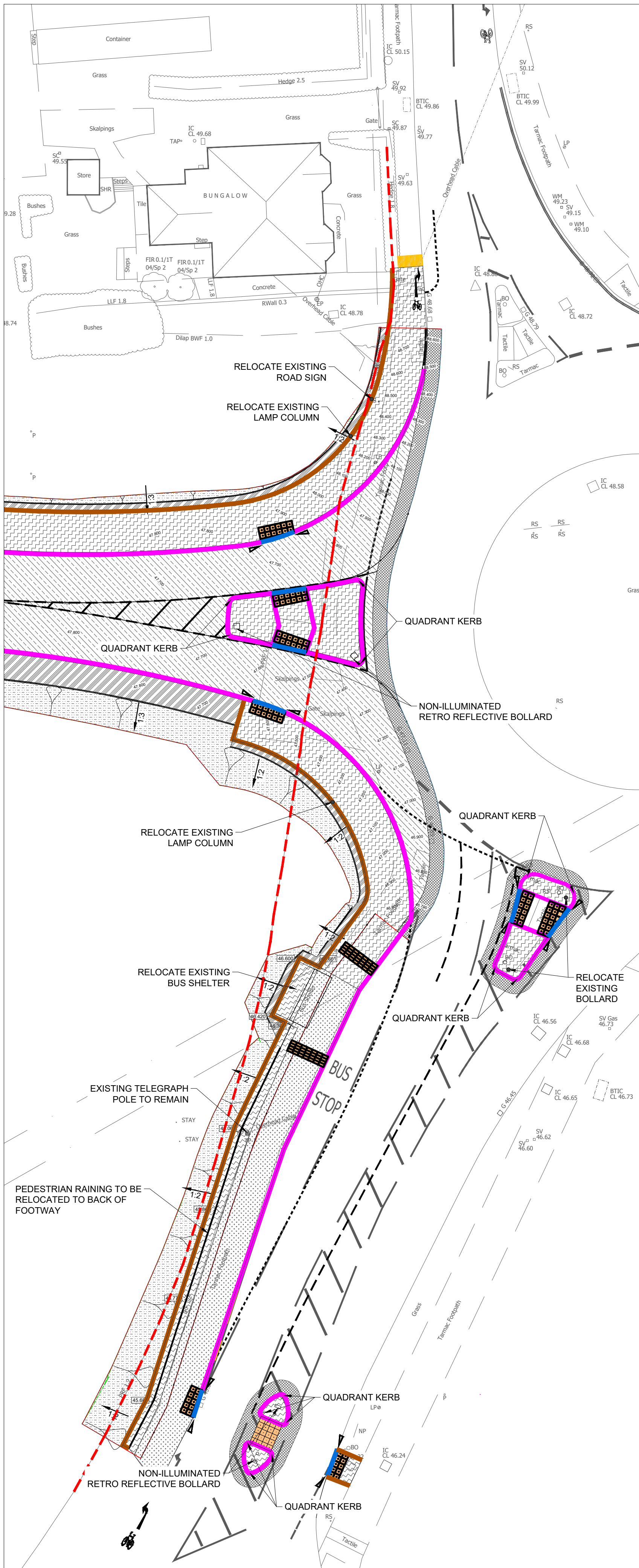
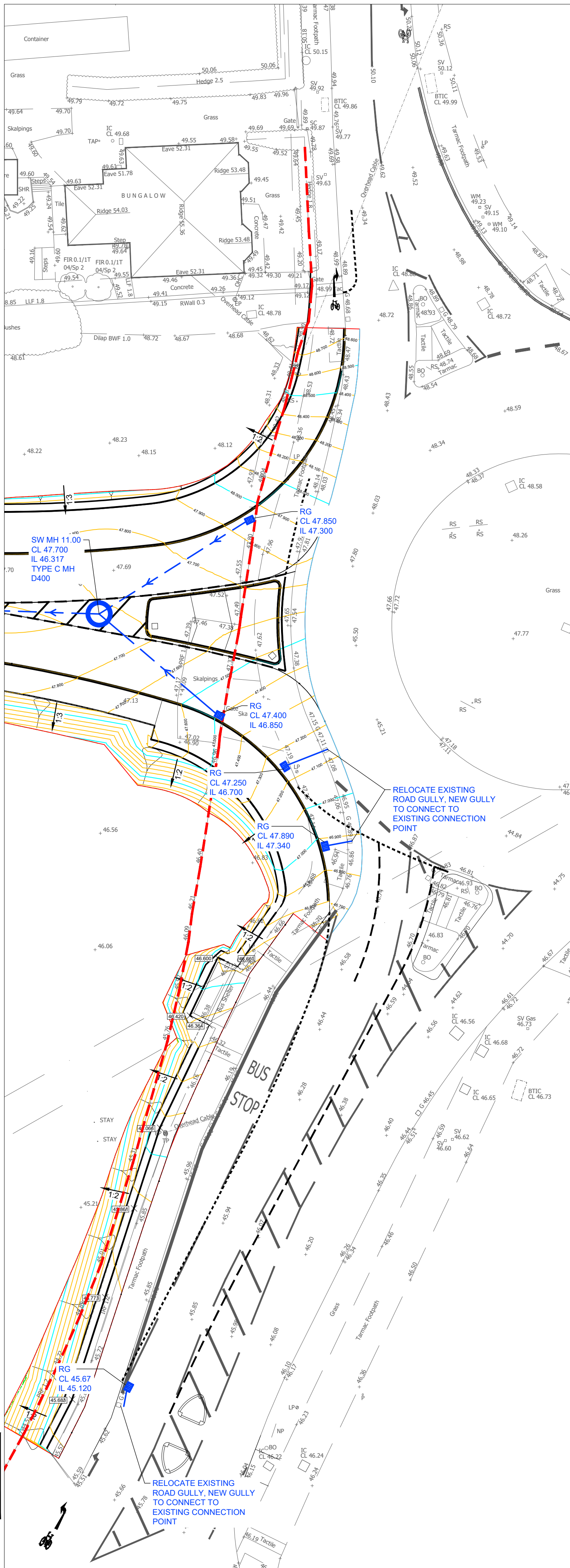
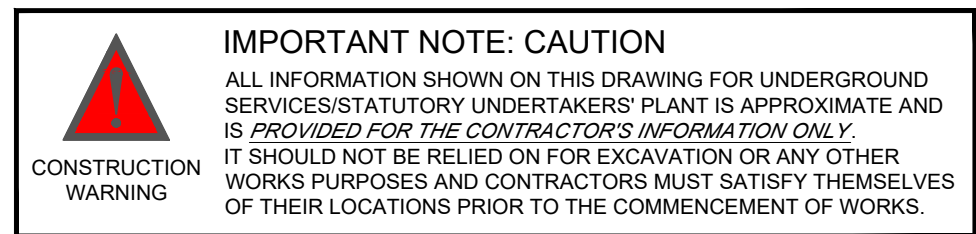


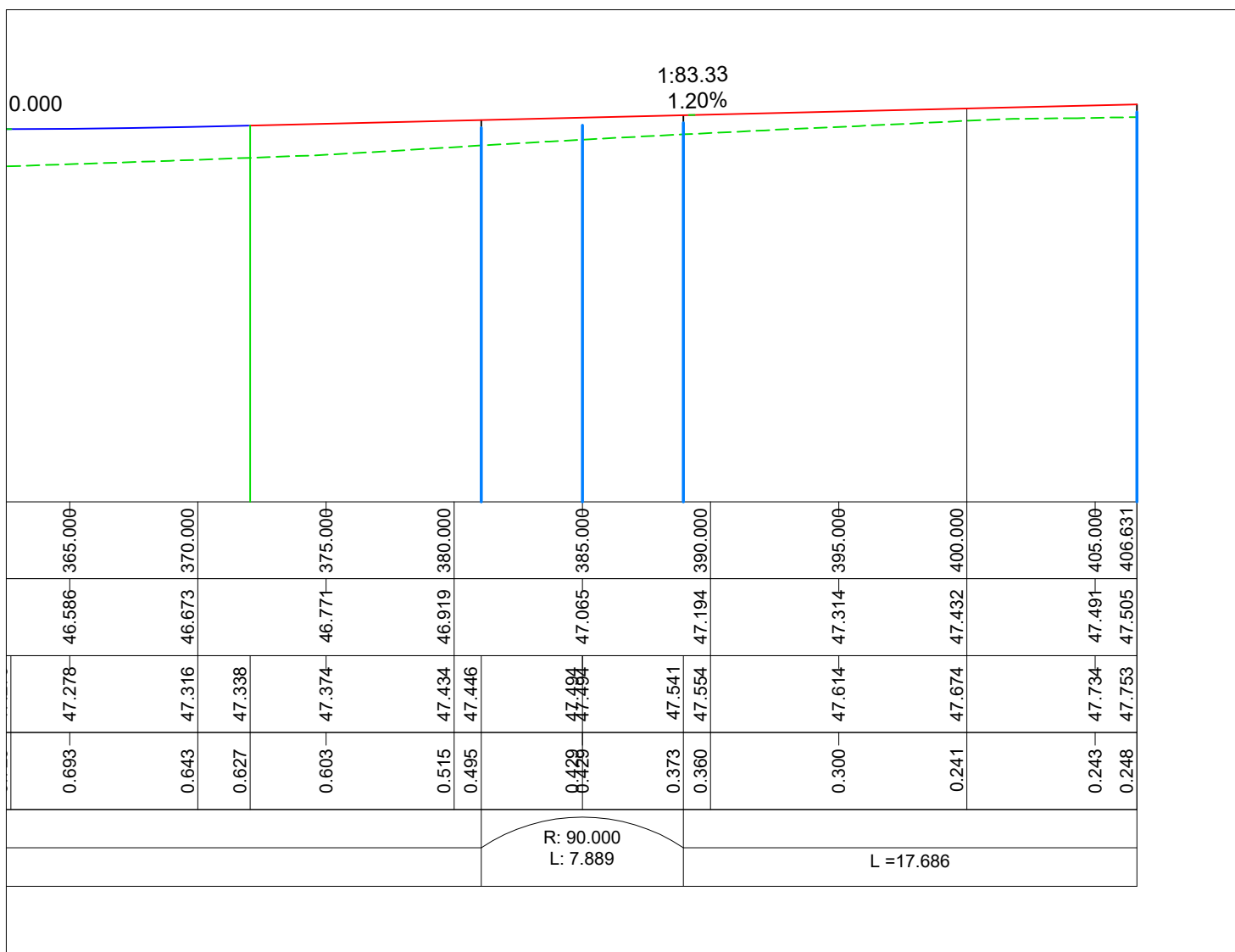
1. ALL PIPES TO BE A THERMOPLASTIC STRUCTURED WALL SEWER PIPES TO WIS 4-35-01 (CLASS 8KN/50M) AND BE CAPABLE OF WITHSTANDING 4000 PSI JETTING
2. FOR CONSTRUCTION DETAILS REFER TO THE RELEVANT ARCH ASSOCIATES DRAWING NUMBERS LISTED ON THE DRAWING ISSUE SHEET.
3. ADAPTABLE HIGHWAY WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AUTHORITY DESIGN GUIDANCE.
4. ANY WORKS ASSOCIATED WITH THE HIGHWAY/EXTERNAL WORKS INCLUDING HIGHWAY DRAINAGE, SHALL BE IN ACCORDANCE WITH THE HIGHWAYS AGENCY 'MANUAL OF CONSTRUCTION DOCUMENTS FOR HIGHWAY WORKS, VOL 1' (MCHW), UNLESS OTHERWISE SPECIFIED.
5. ALL ADAPTABLE SEWERS WITH LESS THAN 1.20m OF COVER WHEN Laid BEHIND THE ROADS, OR 90cm OF COVER IN OTHER AREAS, SHALL HAVE CONCRETE PROTECTION IN ACCORDANCE WITH EITHER OF THE DETAILS SHOWN ON THE STANDARD DRAWING PROVIDED.
6. ALL DRAINAGE WORKS SHOULD COMMENCE AT THE PROPOSED DOWNSTREAM CONNECTION POINT, THE WORKS CONTINUING UPSTREAM FOLLOWING CONFIRMATION OF THE LOCATION OF THE INLET TO THE ENGINEER. CONNECTIONS TO MANHOLES OR LARGER SIZED PIPES ETC. SHOULD BE SOFFIT TO SOFFIT UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. IF THIS IS NOT POSSIBLE INFORM THE ENGINEER IMMEDIATELY
7. COVER LEVELS SHOWN ARE APPROXIMATE, COVERS AND FRAMES SHALL BE SET TO FINISHED GROUND LEVELS AND FALLS.
8. ROAD GULLY PIPES ARE TO BE 150mm DIA. WITH CONCRETE SURROUND AND FLEXIBLE JOINT. ALL GULLIES SHALL BE FITTED WITH GRADE D400 GRATINGS AND FRAMES TO BS EN124, UNLESS OTHERWISE STATED
9. IN ORDER TO MAINTAIN THE SATISFACTORY FUNCTIONING OF SURFACE WATER SEWERS, ALL ROAD AND YARD GULLIES ARE TO BE "TRAPPED".
10. ALL NON ADAPTABLE LATERALS BENEATH THE HIGHWAY SHALL BE BACK FILLED WITH A TYPE 1 GRANULAR MATERIAL AS CL.803 (MCHW) APPROVED BY THE ENGINEER.
11. THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS MADE ON SITE, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN AS CONSTRUCTED DRAWING CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
12. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE. DIMENSIONS ARE TO BE SCALED FROM THESE DRAWINGS
13. IT IS THE CONTRACTORS/SUBCONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH THE CURRENT BUILDING REGULATIONS AND CODES OF PRACTICE.
14. STUB CONNECTIONS TO ADAPTABLE MANHOLES SHALL BE MADE FROM VITRIFIED CLAY AND CONSIST OF TWO ROCKER JOINTS AT THE SAME GRADIENT AS THE UP OR DOWNSTREAM PIPE.
15. GULLY AND CHANNEL DRAIN POSITIONS ARE LIABLE TO AMENDMENT WHEN THE DESIGN LEVELS HAVE BEEN DETERMINED.
16. INFILTRATION BASIN/CHANGING POND/POND SYSTEM TO CONFORM TO CIRIA C793 THE SUBS MANUAL C696 SITE HANDBOOK FOR THE CONSTRUCTION OF SUBS.
17. ALL REDUNDANT DRAINAGE TO BE ABANDONED ONCE THE CONTRACTOR HAS SATISFIED HIMSELF THAT NO CONNECTIONS REMAIN LIVE. REDUNDANT DRAINAGE TO BE GRUBBED OUT.
18. ALL BELOW GROUND CONCRETE TO ACCORD WITH BS5328:1997/SULPHATE CLASS TBA
19. IF ANY SUB SOIL DRAINAGE SYSTEMS ARE UNCOVERED DURING THE WORKS CONTACT THE ENGINEER FOR INSTRUCTIONS. GENERALLY SUB SOIL DRAINS AFFECTED ARE TO BE DIVERTED AROUND NEW WORKS AND CONNECTED INTO SURFACE WATER DRAINAGE SYSTEM. PIPE DIAMETERS AND GRADIENTS ARE TO BE MAINTAINED.
20. BEFORE COMMENCING CONSTRUCTION THE CONTRACTOR MUST CHECK THE INVERT LEVELS OF EXISTING SEWERS TO WHICH CONNECTIONS ARE MADE. IN ADDITION THE CONTRACTOR MUST LOCATE AND DETERMINE INVERT LEVELS OF THE EXISTING DRAINS TO WHICH CONNECTIONS ARE MADE. ADDITIONAL SPUR/DRAINAGE CONNECTIONS ARE TO BE AGREED WITH THE RELEVANT ADAPTIVE AUTHORITY. ANY DISCREPANCIES ARE TO BE NOTIFIED TO THE ENGINEER IMMEDIATELY, PRIOR TO CONSTRUCTION.
21. ROAD REINSTATEMENTS ARE TO BE TO THE HIGHWAY AUTHORITY APPROVAL.
22. NO PRIVATE AREAS ARE TO DRAIN ONTO ADAPTABLE AREAS AND VICE VERSA.

The diagram illustrates a storm water manhole (Type B) with the following details:

- Surface Water Drain** and **Road Gully (Trapped)** are shown at the top.
- Storm Water Manhole Type B** is the main structure.
- For Internal Dimension Refer to Plan** and **Depth from Cover to Soffit of Pipe 1.5m + 3m** are indicated.
- Storm Water Manhole Type C** is shown below Type B.
- Internal Dimension Ø1350** is specified for Type C.
- Depth from Cover to Soffit Less Than 1.5m** is indicated for Type C.
- (Max Pipe Diameter 450mm)** is noted for Type C.
- Pipe Detail: Ø, Length, Gradient,** is mentioned.
- Manhole Reference:**
 - COVER LEVEL
 - INVERT LEVEL
 - SUMP INVERT LEVEL
- Manhole Type:**
 - CATCHPIT MANHOLE (IF REQUIRED)
 - COVER GRADE
- Major Contour** and **Minor Contour** lines are shown at the bottom.



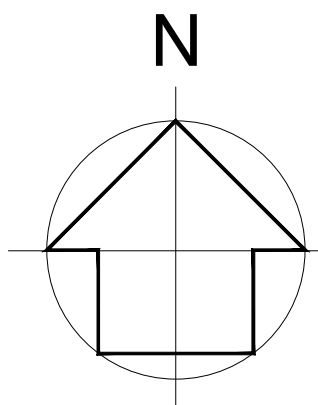
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This drawing must not be scaled. IF IN DOUBT ASK.



1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
2. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT AND/OR ENGINEER IMMEDIATELY, SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
3. HB2 KERB UPSTAND TO BE 100mm. EF EDGINGS TO BE USED AT THE BACK OF ADOPTED FOOTWAYS/VERGES
4. GENERALLY CROSS FALLS TO ADOPTED HIGHWAY AND FOOTWAY TO BE 1 IN 40.
5. ROAD CONSTRUCTION HAS BEEN DESIGNED TO A CBR VALUE OF 1.2% AS CONFIRMED BY THE SITE INVESTIGATION
6. SOFT SPOTS IN THE FORMATION ARE TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
7. ALL EXISTING MANHOLE COVERS, GULLYS, ETC., TO BE RAISED TO SUIT NEW LEVELS.
8. RE-GRADING AND HIGHWAY EMBANKMENTS ARE TO HAVE A MAXIMUM SLOPE GRADIENT OF 1:3. SLOPE GRADIENTS IN GARDENS TO BE RESTRICTED TO 1 IN 12.
9. ALL PROPOSED SIGNING AND LINING, AND ANY EXISTING TO BE REINSTATE, IS TO BE IN ACCORDANCE WITH THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2016 AND TO THE SATISFACTION OF THE HIGHWAYS INSPECTOR.
10. NO BLOCKS/SLABS WITH A UNIT WEIGHT IN EXCESS OF 20KG TO BE USED.
11. KERBS IN EXCESS OF 20KG TO BE MACHINE LAID

	HB2 KERB
	HB2 KERB + SQUARE CHANNEL
	BN KERB - 25mm UPSTAND
	PCC EDGING
	CS CHANNEL - FLUSH
	HIGHWAY BOUNDARY
	TRANSITION KERB
	TACTILE PAVING - PEDESTRIAN
	TACTILE PAVING - CYCLEWAY

	CARRIAGEWAY
	FOOTPATH
	VERGE
	TIE IN CONSTRUCTION
	FOOTPATH PLANE AND RESURFACE
	1:3 EMBANKMENT



INDICATIVE ONLY

P02	07/02/23	UPDATED TO SUIT CLIENT COMMENTS	JLM
P01	21/12/22	PRELIMINARY ISSUE FOR COMMENT	SPB
Rev.	Date	Description	By



01489 890004
admin@archassociates.co.uk
www.archassociates.co.uk

FOREMAN HOMES

Architect

Project title
**PHASE 3,
ST JOHN'S ROAD,
HEDGE END.**

Drawing title
278 AGREEMENT
DRAINAGE, LEVELS AND EXTERNAL WORKS
SHEET 1 OF 2

Scale 1:200	Paper size A1	Date DEC 2022	Drawn by SPB	Checked by SPB	Status S4
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Project code / No.	Originator	Zone	Level	Type	Role	Number	Revision
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