

- NOTES:**
- This drawing is to be read in conjunction with GHB drawing series 150/2017 and any other relevant drawings.
  - All roadworks and adoptable storm water drainage to be undertaken in strict accordance with the current C.C.C. Highway Estate Roads Construction Specification April 2018 and agreed on site by the C.C.C. Engineer.
  - All main drainage works to be installed in accordance with Sewers for Adoption (7th Ed.) and AWS drawing DS/SFA/001.
  - All manholes to be installed in accordance with Sewers for Adoption (7th Ed.).
  - All drainage pipework to be:
    - Vitrified Clay** to **BS-EN 295**
    - Concrete** to **BS 5911**
    - Grey Iron** to **BS 437**
    - Ductile Iron** to **BS-EN 598**
    - UPVC** to **BS-EN 1401**
    - PP** to **BS-EN 1852**
    - Structure walled plastic** to **BS-EN 13476**
  - All pipe dimensions to be as shown.
  - Sulphate resistant cement to be used in all concrete and concrete products used in main drainage works.
  - Where cover to pipes is less than 1.2 m in trafficked areas and 0.9 m below other hard landscaped areas only rigid pipes with concrete surround/slab protection should be used.
  - All inspection chambers to be 450 mm diameter. Where total depth exceeds 1.2 m the cover size should be 350 mm x 350 mm (Max.) to restrict access. where total depth is less than 1.2 m use 450 mm x 450 mm covers.
  - Cover strength to be D400 in carriageways, C250 in lightly trafficked (i.e. pedestrian) areas, B125 elsewhere.
  - The contractor is to take extreme care to locate and avoid any existing services.
  - The contractor is ascertain the precise position, depth & size of all sewer connections before drain laying commences and report all discrepancies to the engineer.
  - Preliminary Issue - Any work undertaken before approvals are received (in writing) are at risk of abortive works.
  - All excavations for proposed drainage works to ensure they are not undermining existing or proposed adjacent foundations.

**KEY**

Extent of the Proposed works  
within the Existing Adopted  
Public Highway

P7	11.02.19	Green Area Amended
P6	04.02.19	Green Area Amended
P5	13.12.18	Green Area Amended
P4	09.04.18	Pink Area Removed
P3	26.03.18	CCC Highways Comments Included
P2	13.12.17	CCC Highways Comments Included

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**GHBullard & Associates LLP**  
Civil and Traffic Engineering Consultants

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Partnership No. OC383830, Registered in England and Wales

Client: **Cocksedge Building Contractors LTD.**

27 Barton Road,  
Thurston,  
Suffolk,  
IP31 3PA

Project:

Land off Moorfield Road  
Whittlesford

Drawing Title:

S278 Highway Adoption Plan

Scale:		1:200 @ A1				
Date:	DEC 2017	Drawn:	JWT	Checked:	MSG	
DWG Reference:		150-2017-CD.DWG				
Drawing Number:		150/2017/CD/01		Revision:		P7



- NOTES:

- |    |          |  |
|----|----------|--|
| P7 | 20.02.19 | CCC Highways Comments Included               |
| P6 | 11.02.19 | CCC Highways Comments Included               |
| P5 | 04.02.19 | Soakaway Removed and Turning Head Added      |
| P4 | 13.12.18 | Soakaway added and Highway Alignment Amended |
| P3 | 26.03.18 | CCC Highways Comments Included               |
| P2 | 13.12.17 | CCC Highways Comments Included               |

Revision	Date	Description
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Client: *Cocksedge Building Contractors LTD.*

Project: *Land off Moorfield Road  
Whittlesford*

*Proposed S278 Works  
Plan Layout*

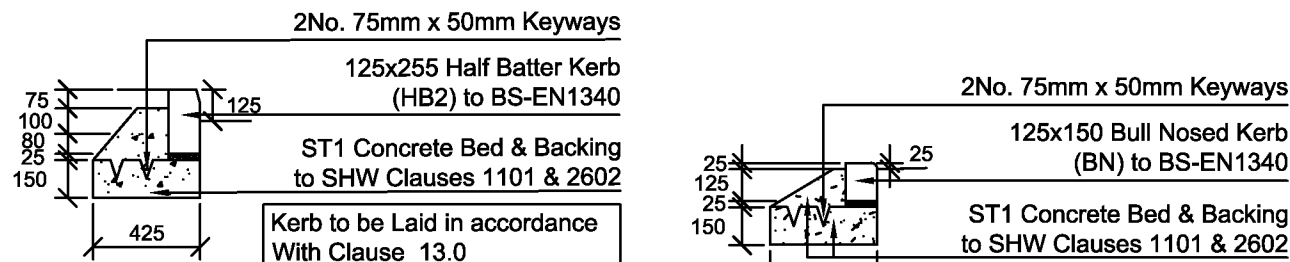
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Date: DEC 2017	Drawn: JWT	Checked: MSG
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DWG Reference: 150-2017-CD.DWG

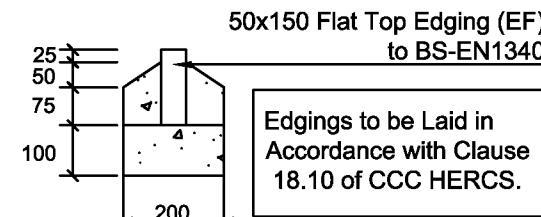
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150/2017/CD/02	F



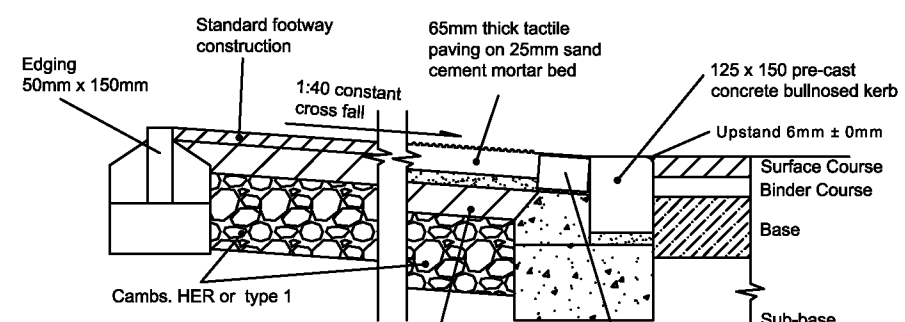


TYPICAL CCC HALF BATTER (HB2) KERB CONSTRUCTION DETAIL

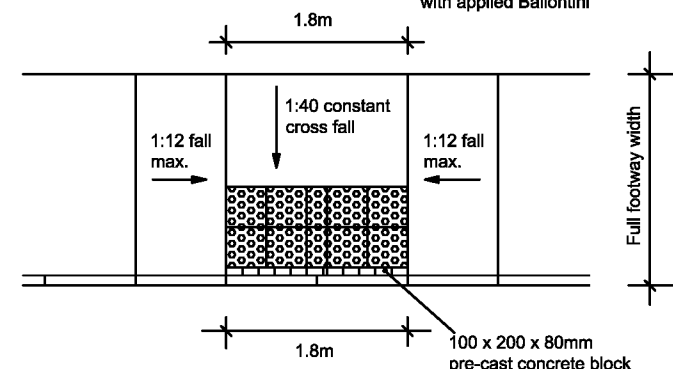
TYPICAL CCC BULL NOSED (BN) KERB CONSTRUCTION DETAIL



TYPICAL CCC FLAT TOP EDGING (EF) CONSTRUCTION DETAIL



TYPICAL SECTION

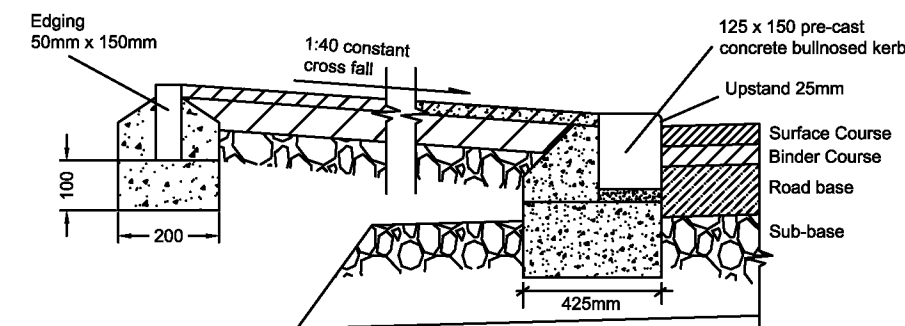


TYPICAL PLAN

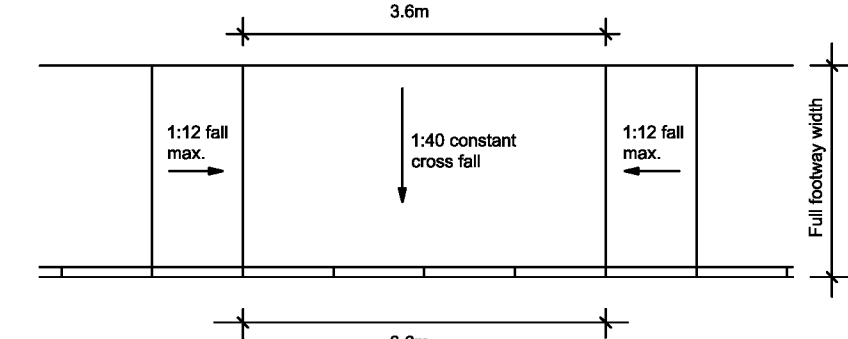
NOTES (CCC HERCS)

1. Depths of granular base are to be found in Appendix 10
2. Construction details for kerbs, edgings etc., are to be found in Appendix 4
3. Binder course to base of mortar bed to slabs be to Clause 19
4. Construction details for surface courses, binder courses and road base are to be found in Appendix 10
5. The back edge of the footway is to follow the kerb line to maintain a constant crossfall of 1:40. The longitudinal fall to the crossing across the length of the transition kerbs shall not exceed 1:12

TYPICAL UNCONTROLLED PEDESTRIAN CROSSING DETAIL



TYPICAL SECTION



TYPICAL PLAN

NOTES

1. Depths of granular base are to be found in Appendix 10
2. Construction details for kerbs, edgings etc., are to be found in Appendix 4
3. Construction details for surface courses, binder courses and road base are to be found in Appendix 10
4. The back edge of the footway is to follow the kerb line to maintain a constant crossfall of 1:40. The longitudinal fall to the crossing across the length of the transition kerbs shall not exceed 1:12

TYPICAL VEHICULAR ACCESS DETAIL

50x150 Flat Top Edging (EF) to BS-EN1340

25 AC6 DENSE SURF 40/60 to BS-EN 13108-1 (Asphalt Concrete)

60 AC14 DENSE BIN 40/60 to BS-EN 13108-1 (Asphalt Concrete)

225 Non-Frost-Susceptible Type 1 Granular Material to SHW Clause 803 Assuming Light Vehicle Crossing of Footway Only

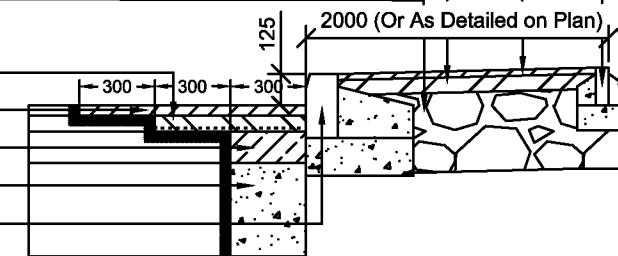
40 SMA 6mm Surf to BS-EN 13108-5 and PD6691 with 40-60 pen binder and PSV 50, laid in accordance with clause 12.03 of CCC HERCS

65 AC20 DENSE BIN 40/60 to BS-EN 13108-1 (Asphalt Concrete)

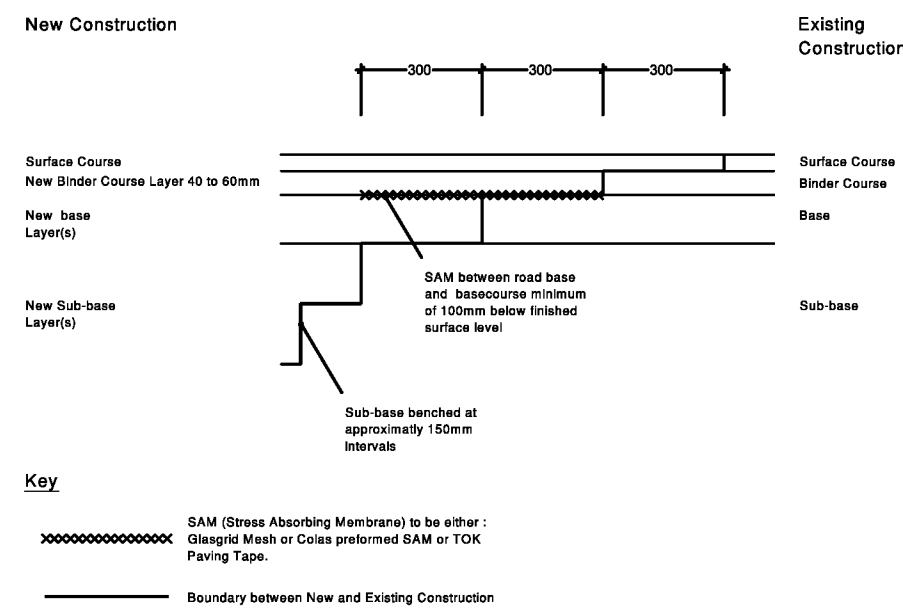
125 AC32 DENSE BASE 40/60 to BS-EN 13108-1 (Asphalt Concrete)

520 Non Frost Susceptible Type 1 Granular Material to SHW Clause 803

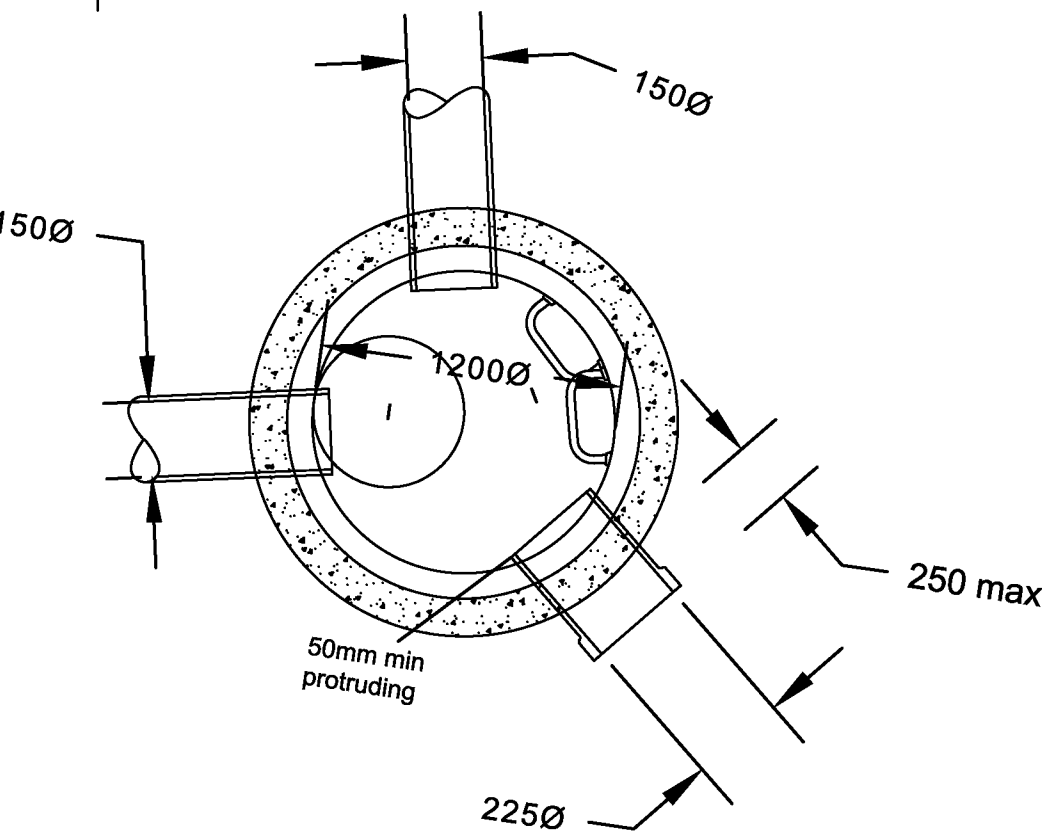
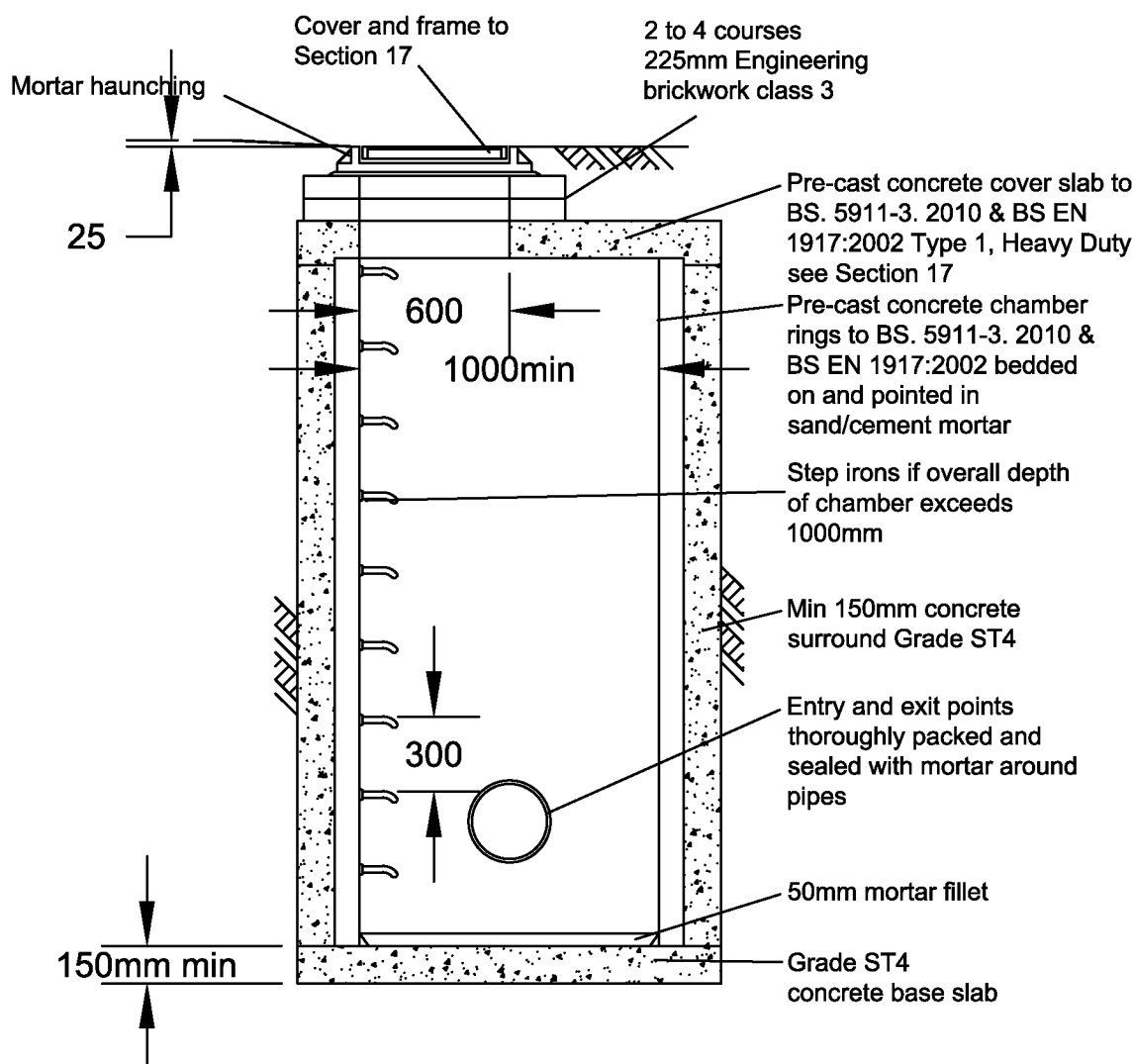
125x255 Half Batter Kerb (HB2) to BS-EN1340



TYPICAL KERB RE-INSTATEMENT CONSTRUCTION DETAIL.



TYPICAL STEPPED CONSTRUCTION DETAIL

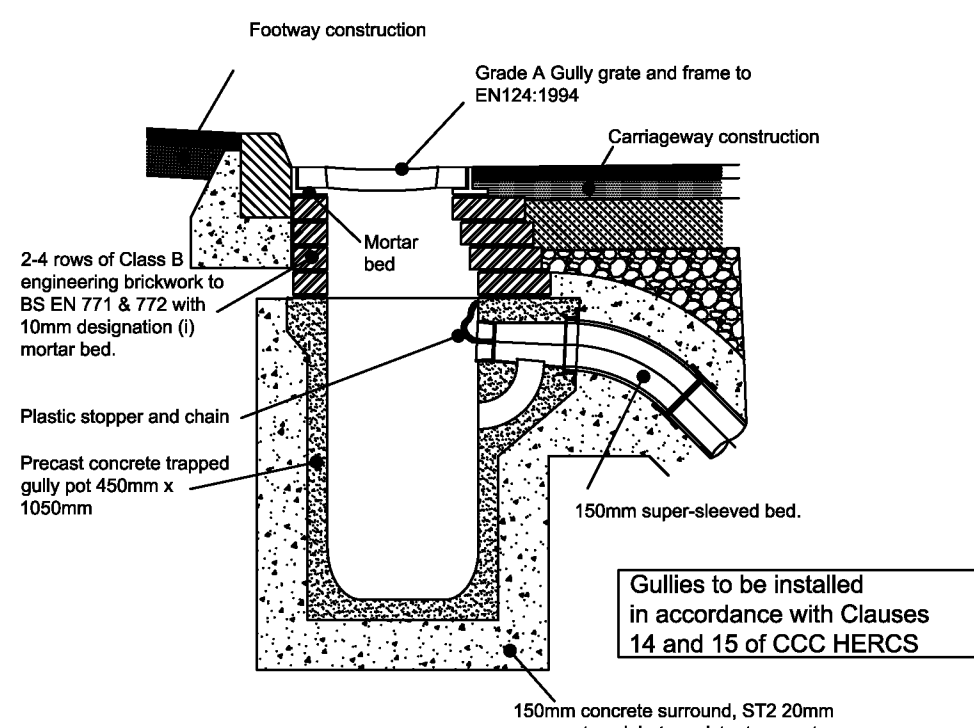


Notes:

Manhole rings, slab and ST 1 concrete to be made using sulphate resisting concrete.

Excess excavation concrete backfill to be ST 1 concrete

Typical Manhole Detail  
(Pipe arrangement shown for SWMH1)

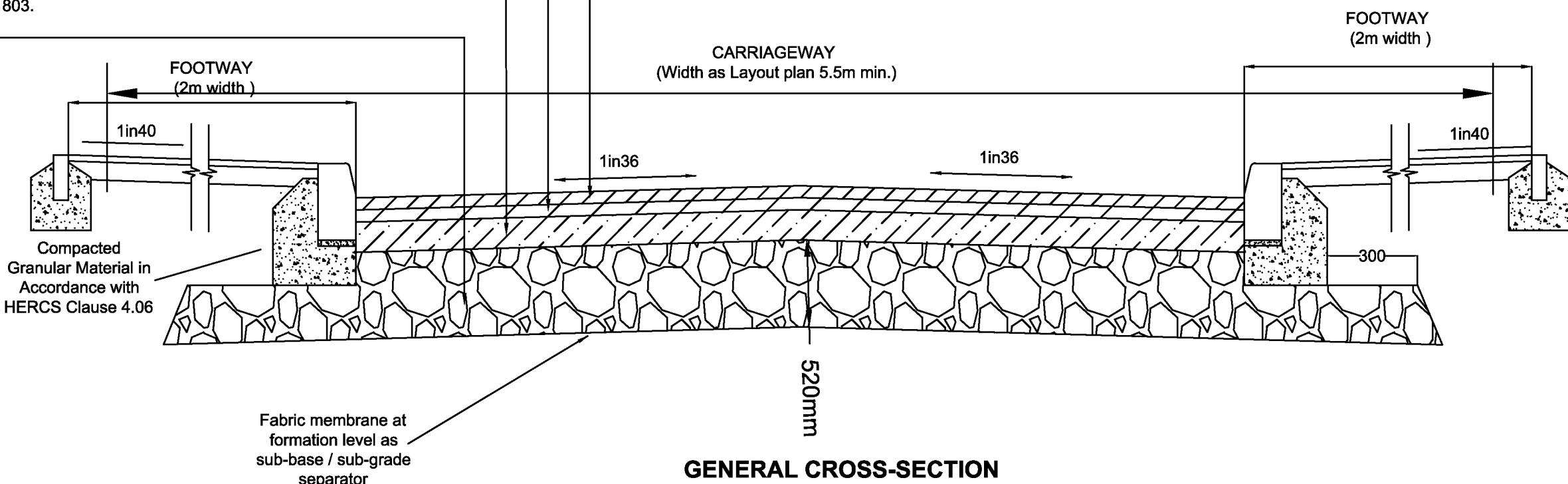


NOTES

1. Gully pot and outlet pipe to a depth of 1.2m to be surrounded in 150 972 concrete.

TYPICAL GULLY CONSTRUCTION DETAIL

40 SMA 6mm Surf to BS-EN 13108-5 and PD6691 with 40-60 pen binder and PSV 50, laid in accordance with clause 12.03 of CCC HERCS  
65 AC20 DENSE BIN 40/60 to BS-EN 13108-1 and PD6691 (Asphalt Concrete)  
125 AC20 DENSE BIN 40/60 to BS-EN 13108-1 and PD6691 (Asphalt Concrete) Laid in 2 Layers  
520 Non-Frost-Susceptible Type 1 Granular Material to SHW Clause 803. Bench at Approximately 150 mm Intervals



GENERAL CROSS-SECTION

NOTES:

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5. All drainage pipework to be:
 

<b>Vitrified Clay</b>	to	<b>BS-EN 295</b>
Concrete	to	BS 5911
Grey Iron	to	BS 437
Ductile Iron	to	BS-EN 598
UPVC	to	BS-EN 1401
PP	to	BS-EN 1852
Structure walled plastic	to	BS-EN 13476
6. All pipe dimensions to be as shown.
7. Sulphate resistant cement to be used in all concrete and concrete products used in main drainage works.
8. Where cover to pipes is less than 1.2 m in trafficked areas and 0.9 m below other hard landscaped areas only rigid pipes with concrete surround/slab protection should be used.
9. All inspection chambers to be 450 mm diameter. Where total depth exceeds 1.2 m the cover size should be 350 mm x 350 mm (Max.) to restrict access. where total depth is less than 1.2 m use 450 mm x 450 mm covers.
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12. The contractor is ascertain the precise position, depth & size of all sewer connections before drain laying commences and report all discrepancies to the engineer.
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14. All excavations for proposed drainage works to ensure they are not undermining existing or proposed adjacent foundations.

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Partnership No. OC383830, Registered in England and Wales		IP31 3PA
Client:		

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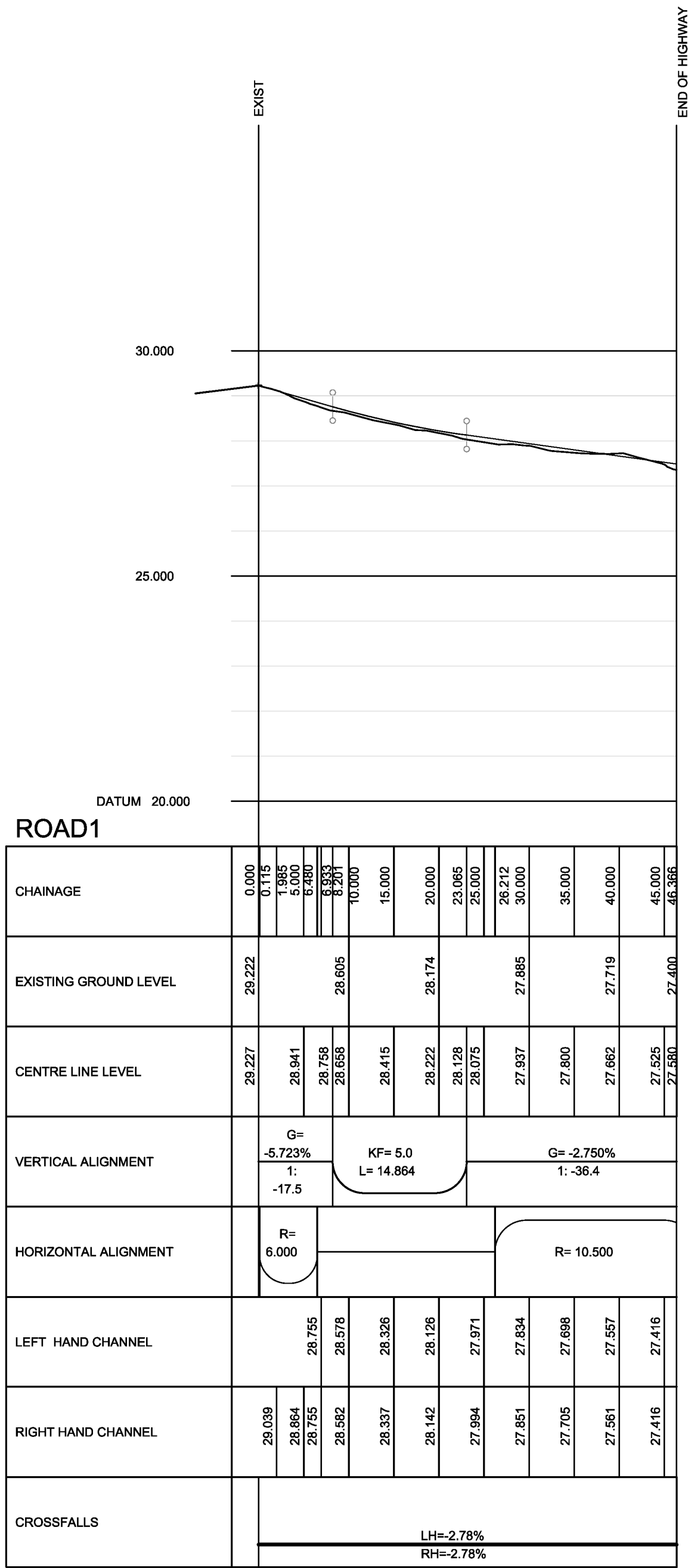
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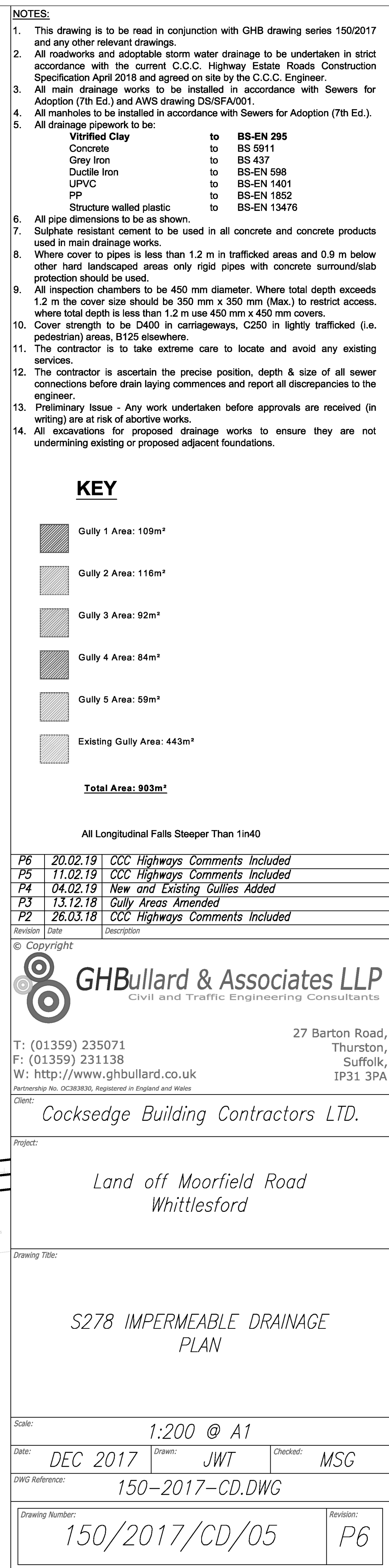
Land off Moorfield Road  
Whittlesford

Drawing Title:

Typical S278 Construction Details

Scale:	N.T.S @ A1		
Date:	DEC 2017	Drawn:	JWT
		Checked:	MSG
DWG Reference:	150-2017-CD.DWG		
Drawing Number:	150/2017/CD/03		Revision:
			P7







THIS AGREEMENT is made this day of <sup>8th March</sup> 8 Two Thousand and 19 between  
("the Applicant ") of the one part and **CAMBRIDGESHIRE COUNTY**  
**COUNCIL** ("the Council") of the other part

WHEREAS

- (1) The Applicant wishes to carry out highways works to facilitate development in accordance with works shown on the Drawings 150/2017/CD/02-P7, 150/2017/CD/03-P7 & 150/2017/CD/05-P6 150/2017/CD/01-P7 & 150/2017/CD/04-P3 annexed thereto and the specification referred to in the Schedule (the Works)
- (2) The Council is the local highway authority for Cambridgeshire and is willing to approve the carrying out of the Works which shall serve the adjoining development on the land in accordance with the terms and conditions set out below

1. This Agreement is made pursuant to Section 278 of the Highways Act 1980 Section 111 of the Local Government Act 1972 and all other enabling powers
2. The contractor that is to carry out the works must provide the Highway Authority with evidence that they carry public liability insurance to a minimum value of £5,000,000 for any one instance, number of instances unlimited.
3. The Applicant on behalf of itself and its successors in title hereby covenants and agrees to carry out the Works fully in accordance with the approved plans and drawings and specification and the terms and conditions set out below

4. The Applicant shall pay to the Council before the date of this Agreement;

[a]. an Agreement Fee of [REDACTED]  
[REDACTED]

[b]. a security deposit in the sum of [REDACTED]  
[REDACTED]

5. In the event that the Applicant shall default or delay in the execution of its obligation to carry out complete and or maintain the Works or any part thereof (as the case may be) in accordance with the terms of this agreement then the Council may itself carry out or arrange for the Works to be carried out completed and or maintained and apply the security deposit to the costs incurred by it in carrying out, completing and/or maintaining the Works or part thereof (as the case may be)

6. After the Council has confirmed in writing that the Works have been carried out to the satisfaction of the Council the Council shall retain the security deposit for a maintenance period of not less than twelve calendar months against any defective workmanship or similar maintenance required to the Works during that period no interest will be paid on the security deposit as held by the Council

7. After the twelve month maintenance period it will be the responsibility of the Applicant to contact the Council to request a final inspection of the Works and the release to the Applicant of the security deposit, the final inspection of the Works will not be undertaken more that 21 days prior to the end of the twelve month maintenance period


8. After the Applicant has completed to the full satisfaction of the Council any and all remedial works required by the Council to the works the security deposit less any and all accrued costs properly due to the Council in respect of the Works shall be released to the Applicant

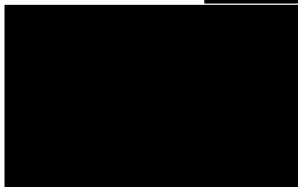
9. The Applicant agrees to fully and completely release and indemnify and keep indemnified the Council from and against all valid and enforceable actions suits claims charges costs expenses damages and demands and any other proper and enforceable liabilities whatsoever arising out of or in connection with the existence and implementation of this Agreement and the construction completion and maintenance of the Works and each and every part thereof

10. After the Council has inspected and approved the Works and after any defects identified by the Council have been remedied reinstated and otherwise made good to the satisfaction of the Council, the Council will give written notification to the Applicant that the works have been completed to the Council's satisfaction and from the date of that notification the Works shall in all respects be maintained by and at the cost of the Council

Signed on the date given above

**SIGNED**

By the Said 



**Signed/for and on behalf of  
CAMBRIDGESHIRE COUNTY COUNCIL**

By 

Authorised signatory