SAPCOTE PARISH COUNCIL

Clerk to the Parish Council: **Josie Blackburn,**
15 William Spencer Avenue, Sapcote, Leicestershire, LE9 4NF
Tel. 07305 168086
Email: clerk@sapcoteparishcouncil.org.uk

15 November 2021

Dear Sirs

Sapcote Parish Council Cemetery Extension, Donkey Lane, Sapcote
Letter of Invitation

I am pleased to invite you to tender for the contract to construct our new Cemetery extension.

A draft WIP design and accompanying notes has been attached for your information.

Please note that we are waiting for an Arboricultural report and following the receipt of the report, the WIP will be updated with any changes needed.

If you would like to visit the site, have any questions, or would like to discuss the project further please do contact us by Friday 23rd June. We would expect all responses to be sent out by Friday 30th June.

All tenders and any supporting documents must be submitted to the Clerk to Sapcote Parish Council, to be received not later than Friday 14th July.

For reference purposes, please also submit the names and addresses of two employers for whom you have carried out similar work within the last two years.

The Council does not guarantee to award all or part of this contract to the lowest or any tenderer.

Yours faithfully

Josie Blackburn
Clerk to the Parish Council

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DWS DRAWINGS, CALCULATIONS, REPORTS AND SPECIFICATIONS (WHERE APPLICABLE) AND, ALL OTHER RELEVANT ENGINEERS, ARCHITECTS & SPECIALIST DESIGN DETAILS.
2. STANDARD NOTES & DETAILS:
   Refer to drawing number 0-170 onwards for standard notes – CIVIL
   Refer to drawing number 0-180 onwards for standard details – CIVIL

Key:

- Car Park Access surfacing – permeable
  Surface: 35mm thk PA 10 surf 70/100
  Binder: 60mm thk AC 20 open bin 160/220
  Base: 325mm thk granular Type 3
- Parking Bay surfacing – permeable blockwork
  Surface: 80mm thk Formpave blockwork
  Bedding: 50mm thk 5mm sharp sand
  Base: 325mm thk granular Type 3
- Footway surfacing
  Surface: 20mm thk AC 6 dense surf 100/150
  Base: 50mm thk AC 20 dense bin 160/220 rec
  Sub-base: 160mm thk granular Type 1
- Breedon Footway surfacing
  Surface: 75mm thk Breedon compacted to 50mm
  Sub-base: 150mm thk granular Type 1
- Cellweb Tree Root Protection footway surfacing
- Dropped kerb
- Transition kerb
- HB kerb
- EF kerb
- ⊕ 87.790 Existing Levels
- X 87.000 Proposed Levels

WORK IN PROGRESS

EXTERNAL LEVELS LAYOUT
Scale 1:250

Ref	Revision	Date	By
P1	First issue	25.05.23	DW

NOT FOR CONSTRUCTION

Issue: PRELIMINARY

DWS Consulting Engineers
Diamond Wood & Shaw Limited
The Old School • Blaby Road • Enderby • Leicester • LE19 4AR
Tel: 0116 284 8080 • Email: mail@dwsltd.co.uk

Project Title: CAR PARK AND EXTENSION SAPCOTE CEMETARY

Drawn	Engineer	Checked
DW	DW	LM

Scale at	Date
1:250 @ A1	MAY 2023

Drawing Title: EXTERNAL LEVELS LAYOUT

Project No.	Drawing No.	Revision
23-20134	0-200	P1

BIM Code

NOTES

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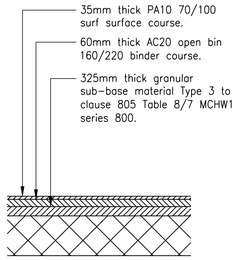
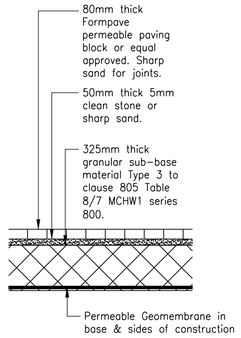


Permeable Car Park Acces specification

(For car and light vehicle use)

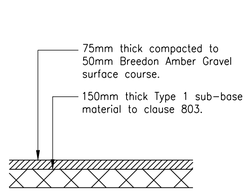


Permeable Car Parking Bay Paving

(Suitable for cars and light vehicle use)

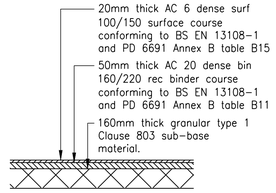
Notes:

1. Permeable paving parking bays to be installed to the manufacturers recommendations and requirements.
2. The designs are based to a CBR value of 2-3%. On site testing should be carried out to determine CBR value before construction. A capping layer beneath geomembrane may be required if CBR is low.
3. Prior to construction, a check on the ground's frost susceptibility should be made. If prone, a minimum of 450mm depth construction must be provided for all hard surfaced areas. This will be achieved using capping (6F5 or equal approved) material to bring the overall depth to 450mm.

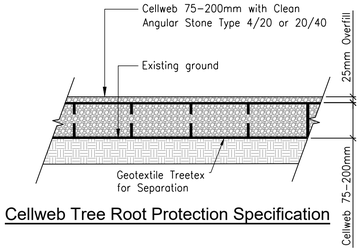


Gravel Footway specification

(Breedon Gravel)

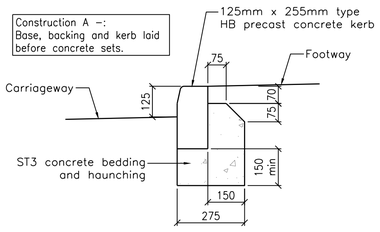


Private Footway Specification



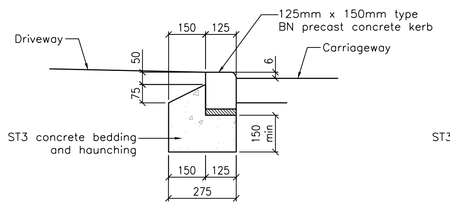
Cellweb Tree Root Protection Specification

Road sub-base layer	
CBR value	Sub-base
less than 2%	Subgrade requires improvement
2-3%	325mm
3-5%	250mm
5 to 7%	150mm
7 to 20%	100mm
the top 450mm has to be materials that are not frost susceptible	

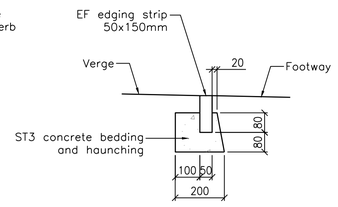


HB Kerb - Typical Half Battered Kerb Detail

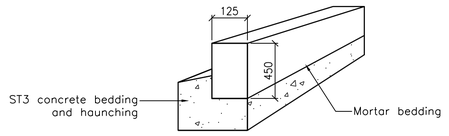
Construction A



BN Kerb - Typical Bullnosed Dropped Kerb Detail



EF Kerb - Typical Footway Edging Kerb Detail



TR Kerb - Typical Transition from HB to BN Kerb Detail

(Isometric View)

CIVIL DETAILS

NTS

Ref	Revision	Date	By
P1	First issue	25.05.23	DW

NOT FOR CONSTRUCTION

Issue: PRELIMINARY

DWS Consulting Engineers
Diamond Wood & Shaw Limited
The Old School • Bixby Road • Enderby • Leicester • LE19 4AR
Tel: 0116 284 8989 • Email: mail@dwsltd.co.uk

Project Title: CAR PARK AND EXTENSION SAPCOTE CEMETARY

Drawn	Engineer	Checked
DW	DW	LM

Scale at	Date
NTS	MAY 2023

Drawing Title: CIVIL DETAILS

Project No.	Drawing No.	Revision
23-20134	0-180	P1

BIM Code

NOTES

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ALL PARTIES ARE RESPONSIBLE FOR READING ALL NOTES REMAINING IN BOLD. ANY NOTES THAT ARE SHOWN IN GREY ARE NOT APPLICABLE TO THIS PROJECT.
IF ANY INFORMATION IS UNCLEAR, PLEASE CONTACT DWS FOR CLARIFICATION

DISCLAIMERS AND ABBREVIATIONS

1. ALL DESIGN INFORMATION PROVIDED BY DWS IS TO BE READ IN CONJUNCTION WITH ALL OTHER DWS DRAWINGS, CALCULATIONS, REPORTS AND SPECIFICATIONS (WHERE APPLICABLE), AND ALL OTHER RELEVANT ENGINEERS, ARCHITECTS & SPECIALIST DESIGN DETAILS.

2. ABBREVIATIONS:
AOD = Above Ordnance Datum
BEGL = Below existing ground level
BOC = Bottom of concrete
BOS = Bottom of steel
CL = Cover level
DPC = Damp proof course
DPM = Damp proof membrane
EGL = Existing ground level (also see OSL)
IL = Invert level
FFL = Finished floor level
OSL = Original survey level (original Topo)
PGL = Proposed ground level
SP = Survey or Station point
SOP = Setting out point
SSL = Structural slab level
TBC = To be confirmed
TOB = Top of beam
TOC = Top of concrete
TOS = Top of steel
UNO = Unless noted otherwise

3. SOURCE INFORMATION:
The following third party reports, drawings and information have been used and form the basis of our design.
Site Layout – Sapcote Cemetary 30.08.22
Topo' Survey – 42527_T_REV 0
GI Report – ####
Arch' Drawings – ####
Other Misc' – 21.1592.001 Sapcote Cemetary 30.08.22 – Landscaping Plan

4. DRAWING / DOCUMENT STATUS:
All drawings, reports and calculations issued as either Draft, For Comment, Preliminary, Building Regulations or Tender should never be used for construction purposes or ordering materials. Should any contractor or client reply on this information for such purposes, DWS accept no responsibility.
All drawings issued as Tender status can only be used for pricing purposes, not material order.
All drawings, reports and calculations issued as Construction status can be used for construction and material order.

5. DOCUMENT REVIEW:
DWS issue all information in good faith and assume that all parties will review and comment accordingly. If no comments are received, DWS will assume that no further design development is necessary and all parties are happy to proceed with construction based on the information provided. Should changes to design be required or requested after construction issue, additional fees will be charged accordingly.

6. DESIGN CHANGES & ADDITIONAL WORKS:
DWS will make every reasonable effort to consume small design changes within the stated fee proposal. Time spent on numerous or major design changes will be recorded and discussed accordingly to recoup fees as appropriate.
Should any work be requested outside the scope of the fee proposal, DWS will notify all necessary parties to advise or agree additional fees.

7. UNFORESEEN CIRCUMSTANCES:
DWS will not be held responsible for any unforeseen circumstances such as underground obstructions or changes in ground conditions not identified in the Ground Investigation report or any other survey information. Every action will be taken to assist if such events occur, and any additional fees will be discussed accordingly.

8. UNDERMINING AND PARTY WALL AWARDS:
Where excavations are situated close to land boundaries or adjacent to any property, due consideration is required by all parties to ensure undermining or collapse does not occur. Any risks should be negated by professional methods to avoid disputes and possible damage to property.
Where any construction is within 3m of any off site structure owned by a third party, the client, developer and Architect must consider and obtain (where necessary) a Party Wall Award.

9. TEMPORARY WORKS AND DEMOLITION:
DWS are not responsible for the design or providing advice on any form of temporary works (including propping) unless specifically requested at project inception and subsequently noted in our fee proposal.
The contractor is responsible for all risks associated with demolition.

9. STANDARD NOTES & DETAILS:
Refer to drawing number 0–150 for standard notes – STRUCTURAL

Refer to drawing number 0–160 for standard details – STRUCTURAL

Refer to drawing number 0–170 for standard notes – CIVIL

Refer to drawing number 0–180 for standard details – CIVIL

SEWERS FOR ADOPTION - 6th EDITION

1. The position, line, level and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of works. Any discrepancies should be reported to the engineer immediately.
2. All dimensions are in millimetres unless noted otherwise.
3. The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the Water Authority
4. All work is to be carried out in accordance with the relevant, current British Standard and Codes of Practice and Building Regulations.
5. All drainage works shall be carried out in accordance with WSA "Sewers for Adoption (6th Edition)" and "Civil Engineering Specification for the Water Industry (6th Edition)".
6. UPVC pipes and fittings to comply with BS EN 1401–1 1998.
7. Clayware pipes and fittings to comply with BS EN 295:1991 Part 1.
8. Rubber joint rings shall be Type D to BS 2494 and shall be obtained from the same manufacturer as the chosen pipe.
9. Drainage to BS 8301 with pipes of approved type on granular bed and surround are to be laid strictly in accordance with the manufacturers instructions.
10. Pipes under buildings and with cover less than:–
    - 600mm under gardens & non trafficked areas
    - 900mm under car parking areas
    - 1200mm under roads

    to have concrete protection applied.
11. All pipes entering & exiting manholes are to be connected using preformed branch channel bends 3/4 section at half the main channel height.
12. The first flexible joint in pipes, adjacent to a manhole, shall be a maximum 600mm from the inside face of the manhole, connected to a rocker pipe.
13. Precast concrete manholes, cover slabs and seating rings shall comply with BS 5911 Part 200.
14. Brick manholes to be constructed in flush pointed. English Bond brickwork using Class B solid engineering bricks to BS 3921 in a suitable sand / cement mortar.
15. Manhole step irons to comply with BS 1247.
16. Manhole covers and frames to be ductile iron heavy duty grade D400 double triangular to BS EN 124 in carriageways and heavy vehicular trafficked areas (150mm thick).
    Manhole covers and frames to be ductile iron medium duty grade B125 circular or rectangular to BS EN 124 in non trafficked areas, unless noted otherwise.
17. All cement used in the construction of manholes shall be Ordinary Portland Cement (OPC) to the relevant provisions of BS 4027 CESWI specification clause 2.15.
18. Refer to CESWI specification clause 2.20 for sand / cement mortar grades.
19. High strength granolithic concrete topping to benching to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections in accordance with CESWI specification clause 4.30.
20. Pipes shall be laid to their true line and level by laser or by boning each end and middle.
21. All soft spots within pipe trenches shall be removed and filled with Type 1 material.
22. No water shall be allowed to accumulate in pipe trenches during construction.
23. All fill material shall be compacted in layers not exceeding 225mm.
24. All in–situ concrete used in below ground pipe protection to be of minimum grade C20P.
25. Compressible filler for interruption of concrete pipe protection shall consist of bitumen impregnated insulating board to BS 1142 Part 3 at each pipe joint; thickness in accordance with CESWI Clause 2.52.
26. Any redundant drains shall be removed or concrete sealed.
27. Where pipes are crossing, plastic membrane is to be used for protection to eliminate the chance of cross contamination if leakage occurs.
28. Pipes of different diameters are to enter the manhole at soffit to soffit level unless noted otherwise.
29. Precast concrete manholes are not to be cut or core drilled under any circumstances.
30. All manhole covers and frames are to be a minimum of 675 x 675mm to maintain a clear opening. Covers and frames to be Kite Marked.
31. Where the depth of a manhole is greater than 3000mm to soffit, a vertical galvanised mild steel access ladder with 230mm clearance to the wall is required. Double encapsulated step rungs are to be used in manholes less than 3000mm deep.

SEWERS FOR ADOPTION - 7th EDITION DCG

1. The position, line, level and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of works. Any discrepancies should be reported to the engineer immediateley.
2. All dimensions are in millimetres unless noted otherwise.
3. The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the Water Authority
4. All work is to be carried out in accordance with the relevant, current British Standard and Codes of Practice and Building Regulations.
5. All drainage works shall be carried out in accordance with Water UK "Sewage Sector Guidance Appendix C" Version 2 (The Code, DCG) and "Civil Engineering Specification for the Water Industry (7th Edition)".
6. UPVC pipes and fittings to comply with BS EN 1401–1 1998.
7. Clayware pipes and fittings to comply with BS EN 295:1991 Part 1.
8. Rubber joint rings shall be Type D to BS 2494 and shall be obtained from the same manufacturer as the chosen pipe.
9. Drainage to BS 8301 with pipes of approved type on granular bed and surround are to be laid strictly in accordance with the manufacturers instructions.
10. Pipes under buildings and with cover less than:–
    - 600mm under gardens & non–trafficked areas
    - 900mm under car parking areas
    - 1200mm under roads

    to have concrete protection applied.
11. All pipes entering & exiting manholes are to be connected using preformed branch channel bends 3/4 section at half the main channel height.
12. The first flexible joint in pipes, adjacent to a manhole, shall be a maximum 600mm from the inside face of the manhole, connected to a rocker pipe.
13. Precast concrete manholes, cover slabs and seating rings shall comply with BS 5911 Part 200.
14. Brick manholes to be constructed in flush pointed. English Bond brickwork using Class B solid engineering bricks to BS 3921 in a suitable sand / cement mortar.
15. Manhole step irons to comply with BS 1247.
16. Manhole covers and frames to be ductile iron heavy duty grade D400 double triangular to BS EN 124 in carriageways and heavy vehicular trafficked areas (150mm thick).
    Manhole covers and frames to be ductile iron medium duty grade B125 circular or rectangular to BS EN 124 in non trafficked areas, unless noted otherwise.
17. All cement used in the construction of manholes shall be Ordinary Portland Cement (OPC) to the relevant provisions of BS 4027 CESWI specification clause 2.15.
18. Refer to CESWI specification clause 2.20 for sand / cement mortar grades.
19. High strength granolithic concrete topping to benching to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections in accordance with CESWI specification clause 4.30.
20. Pipes shall be laid to their true line and level by laser or by boning each end and middle.
21. All soft spots within pipe trenches shall be removed and filled with Type 1 material.
22. No water shall be allowed to accumulate in pipe trenches during construction.
23. All fill material shall be compacted in layers not exceeding 225mm.
24. All in–situ concrete used in below ground pipe protection to be of minimum grade C20P.
25. Compressible filler for interruption of concrete pipe protection shall consist of bitumen impregnated insulating board to BS 1142 Part 3 at each pipe joint; thickness in accordance with CESWI Clause 2.52.
26. Any redundant drains shall be removed or concrete sealed.
27. Where pipes are crossing, plastic membrane is to be used for protection to eliminate the chance of cross contamination if leakage occurs.
28. Pipes of different diameters are to enter the manhole at soffit to soffit level unless noted otherwise.
29. Precast concrete manholes are not to be cut or core drilled under any circumstances.
30. All manhole covers and frames are to be a minimum of 600 x 600mm to maintain a clear opening. Covers and frames to be Kite Marked.
31. Where the depth of a manhole is greater than 3000mm to soffit, a vertical galvanised mild steel access ladder with 230mm clearance to the wall is required. Double encapsulated step rungs are to be used in manholes less than 3000mm deep.

CONCRETE

1. UNDERGROUND PIPE PROTECTION CONCRETE MIX:
A prescribed mix in accordance with the current requirements of BS 8500–1 & 8500–2.
Grade = C20 P, consistency class S2.
2. MANHOLE SURROUND CONCRETE MIX:
A designated mix in accordance with the current requirements of BS 8500–1 & 8500–2.
Grade = PAV 2, consistency class S2.
3. EXTERNAL SLAB CONCRETE MIX:
A designated mix in accordance with the current requirements of BS 8500–1 & 8500–2.
Grade = PAV 2, consistency class S3.
4. COVER SLAB (IN HIGHWAY) CONCRETE MIX:
A designed mix in accordance with the current requirements of BS 8500–1 & BS 8500–2.
Grade = C32/40. Also refer to calculations.
Consistency class S3.
5. CONCRETE ADDITIVES AND COMPACTION:
NO additives to any concrete will be allowed unless agreed with by the engineer. Where necessary, concrete to be compacted by means of a mechanical poker vibrator & with a workability such that dense concrete free from voids will be produced.
6. REINFORCEMENT:
All reinforcement to be in accordance with the current requirements of BS 8666.
Minimum reinforcement laps to be:
Mesh & B10 = 400mm
Cover to be 50mm all round UNO. Where cast directly against soil cover to be increased to 75mm.
Reinforcement cover to be maintained by the use of proprietary type spacers or chairs as required.
7. CONCRETE CUBE TESTING:
Four concrete cubes are to be made, stored and tested in accordance with BS.1881 from a representative sample of each batch. Two cubes shall be tested at 7 days and two shall be tested at 28 days.

WARNING

HIGH VOLTAGE CABLES PRESENT UNDERGROUND.
CONTRACTOR TO LOCATE AND TAKE ALL REASONABLE PRECAUTIONS, PRODUCE A FULL RISK ASSESSMENT AND METHOD STATEMENT PRIOR TO CONSTRUCTION.

WARNING

GAS MAIN PRESENT UNDERGROUND.
CONTRACTOR TO LOCATE AND TAKE ALL REASONABLE PRECAUTIONS, PRODUCE A FULL RISK ASSESSMENT AND METHOD STATEMENT PRIOR TO CONSTRUCTION.

WARNING

CONTAMINATED GROUND LOCATED ON SITE.
CONTRACTOR TO LOCATE AND TAKE ALL REASONABLE PRECAUTIONS, PRODUCE A FULL RISK ASSESSMENT AND METHOD STATEMENT FOR REMOVAL / REMEDIATION PRIOR TO CONSTRUCTION.

Ref	Revision	Date	By
P1	First issue	25.05.23	DW

NOT FOR CONSTRUCTION

Issue: PRELIMINARY

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Project Title: CAR PARK AND EXTENSION SAPCOTE CEMETARY

Drawn	Engineer	Checked
DW	DW	LM

Scale at	Date
1:1 @ A1	MAY 2023

Drawing Title: STANDARD NOTES - CIVIL
SHEET 1 OF 1

Project No.	Drawing No.	Revision
23-20134	0-170	P1

BIM Code