

Approximate Site  
Location - Coordinates

Eastings = 384929.492  
Northings = 217911.660  
Nearest Postcode = GL4 3SN

Site Location  
Scale 1:1000



Notes: DO NOT SCALE DRAWING

Dimensions provided are indicative only, and should be confirmed and read in conjunction with the Architect's construction drawings at such times as they are available, and/or from site measurement.

All setting out to be in accordance with the Architect's drawings, any ambiguities to be raised prior to construction.

RESIDUAL RISK REGISTER			
No.	Description of Hazard	Control Measures	Action By
	Standard construction		

- NOTES:
- All works to be undertaken in accordance with Gloucestershire County Council Manual for Gloucestershire Streets 3rd Edition & Gloucestershire County Council Highways Standard Drawings.
  - All Statutory Undertakers, including cable television companies, must be contacted prior to commencing any works to ascertain the location and depth of their apparatus. In the event of any protection or diversionary works being necessary to their apparatus then any costs incurred will be the contractors responsibility both for arranging and any payment.
  - The Contractor shall provide, erect and maintain such traffic signs, lamps, barriers and traffic control signals, and such measures may be necessitated by the construction of the works in accordance with the recommendations contained in Chapter 8 of the Traffic Signs Manual.
  - The developer and contractor shall confirm they are working in accordance with NJUG Volume 1 Guidelines on the Positioning and Colour Coding of Underground Utilities Apparatus and Volume 2 Guidelines on the Positioning of Underground Utilities Apparatus for New Development Sites
  - Root barrier to be installed at the back of the adopted footpath to prevent the roots from any proposed new trees undermining the footpath.
  - Retention of the existing kerbline will be subject to inspection and approval by the Local Authority Highways Inspector.
  - Re-use of the existing kerb race will be subject to inspection and approval by the Local Authority Highways Inspector. Reconstruction of the existing channel line to have 300mm overbite of each bluminous layer that is disturbed.
  - 150mm x 50mm back edging kerbs will be laid upturned and flush at footway crossovers.
  - Tactile paving at uncontrolled crossing points to be 400x400mm buff colour blister paving in accordance with DETR guidance on the use of paving surfaces.
  - All subgrade structures and unconsolidated material within the construction width of the highway, are to be removed.
  - CBR values and calculations may be required to determine sub-base thickness.
  - Boundary walls will not be adopted.
  - Hinged gully grate and frame to BS EN 124, Grade D400, non-rocking with captive left hand end hinge. Minimum waterway area 900cm squared. Frame depth 100mm. Black coated ductile iron.
  - Any existing gullies that are damaged during construction will be replaced with new ones, as agreed with a representative of the Local Authority Highways department.
  - Hand laying of bluminous materials is not permitted on adoptable carriageway.
  - Tarmac road construction to comply with BS:EN.130108
  - The provision of a CCTV survey of any highway drainage, at the developers expense, is required prior to laying the wearing course.
  - Where two or more water services boundary boxes are situated together multi-meter boundary as specified by the Sewerage Undertaker are to be installed.
  - A Covenant will be provided to the benefit of the Local Authority ensuring that no planning or structure greater than 600mm in height to be permanently situated within the visibility splay.

SIGNING & SAFETY

A. The Contractor shall provide, erect and maintain such traffic signs, lamps, barriers and traffic control signals, and such measures may be necessitated by the construction of the works in accordance with the recommendations contained in Chapter 8 of the Traffic Signs Manual.

SERVICES

B. All Statutory Undertakers, including cable television companies, must be contacted prior to commencing any works to ascertain the location and depth of their apparatus. In the event of any protection or diversionary works being necessary to their apparatus then any costs incurred will be the contractors responsibility both for arranging and any payment.

KEY:

- Denotes Site Development Planning Application Site Boundary (Approx 53,142 m<sup>2</sup> / 13.13 acres)
- Denotes Existing Highway Boundary
- Denotes Limit of Section 278 Works

The topographical information shown is based on the topographical survey by Ellam Surveys, Dwg no. 8362\_2D/1, dated Nov21

FOR APPROVAL

P4 SH	Base layout and boundaries updates	13.01.23
P3 SH	Proposed Highways boundary updated	04.10.22
P2 SH	Base layout updated and client comments incorporated	09.08.22
P1 SH	Preliminary Issue	29.04.22
Rev By	Details	Date
	(P=Preliminary, T=Tender, C=Construction, R=Record)	

Client:

**CANMOOR**

Project:

Access Park, Gloucester

Drawing Title:

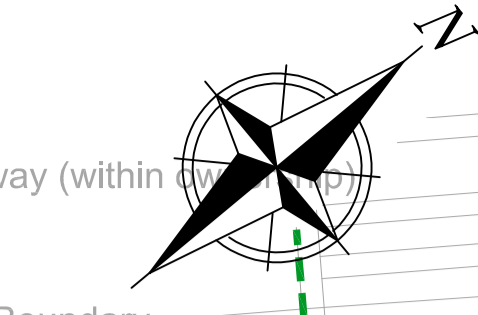
Section 278 Works  
Site Location

**CDP**

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Date:	Apr 22	Drawing No.	17-7295-0001	Issue Rev.	P 4
Scale:	As Shown @ A1				
Drawn:	SH				
Chkd:	JB				



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RESIDUAL RISK REGISTER			
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	Standard construction		

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- SIGNING & SAFETY
- The Contractor shall provide, erect and maintain such traffic signs, lamps, barriers and traffic control signals, and such measures may be necessitated by the construction of the works in accordance with the recommendations contained in Chapter 8 of the Traffic Signs Manual.
- SERVICES
- All Statutory Undertakers, including cable television companies, must be contacted prior to commencing any works to ascertain the location and depth of their apparatus. In the event of any protection or diversionary works being necessary to their apparatus then any costs incurred will be the contractors responsibility both for arranging and any payment.

KEY:

— Denotes Site Development Planning Application Site Boundary (Approx 53,142 m<sup>2</sup> / 13.13 acres)

- - - Denotes Existing Highway Boundary

The topographical information shown is based on the topographical survey by Ellam Surveys, Dwg no. 8362\_2011, dated Nov21

**FOR APPROVAL**

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P3 SH	Highways boundary updated	04.10.22
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Client:

**CANMOOR**

Project:

Access Park, Gloucester

Drawing Title:

Section 278 Works  
Existing Site Plan

**CDP**

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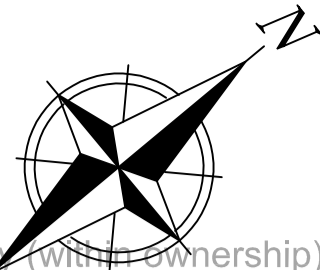
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Date:	Apr 22	Drawing No.	17-7295-0100	Issue Rev.	P
Scale:	As Shown @ A1				4
Drawn:	SH				
Chkd:	JB				

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Existing Site Plan  
Scale 1:500



**Utilities Survey Key**

\*Survey Information provided by Terra Measurement' underground services scan, drawing ref 3528\_ACCESS PARK UTILS (A04.1), dated 18.11.21

\*Utilities Search by 'Severn Trent Water' water mains record, dated 06.02.17

BT	BT	BT	BT
CATV	CATV	CATV	CATV
COM	COM	COM	COM
COMsPower	COMsPower	COMsPower	COMsPower
TS	TS	TS	TS
E	E	E	E
LV	LV	LV	LV
HV	HV	HV	HV
GAS	GAS	GAS	GAS
?	?	?	?

Water Main & Easement  
Water Main

BT Cable
CATV Cable
Coms Cable
ComsPower
Traffic Signal Cable
Electric Cable
Electric HVACable
Gas Pipe
Undertaken Service
Foul Sewer
Combined Sewer
Private Sewer
Pumped Sewer
Surface Sewer
Tracing Main
Trade Effluent
GPR Anomaly
Service Duct
Survey Extents
Chamber Extents
Fibre Optic
CCTV Cables

1.00	Depth (m)	DOC	Depth of Slab Cover
UTT	Unable To Trace	P.T	Poor Trace
EOI	End of Trace / Signal Lost	N.V.P	No Visible Pipe
EOS	End of Service	N.V.V	No Visible Valve
AS	Assumed Route	E.D	Empty Duct
TR	Taken From Records	RWP	Rain Water Pipe
UTL	Unable To Lift	BLKD	Blocked
UTM	Unable To Measure	M.U.D	Multiple Ducts
M.A.R	Man Access Required	M.U.C	Multiple Cables
CL	Cover Level	CR	Cable Rise
I	Invert Level	AG	Above Ground
UIS	Underside/Suffit	DC	Drainage Channel

**NOTES**

CENTER LINE OF SERVICES SHOWN.

A REASONABLE SAFETY ZONE SHOULD BE ALLOWED AROUND EACH CENTER LINE OF THE SERVICES SHOWN.

MULTIPLE SERVICES OR LARGER SERVICES ARE SHOWN HATCHED. EXAMPLE:

DRAIN LINES HAVE BEEN SHOWN WHERE POSSIBLE. NOT ALL CONNECTIONS HAVE BEEN ESTABLISHED DUE TO INSUFFICIENT INFORMATION. ORIGIN, ORIENTATION & DATE: OS NATIONAL GRID (OSTN15) DERIVED FROM GPS

**DISCLAIMER**

While every effort has been made to ensure that the information obtained by non-invasive geophysical techniques is accurate, factors beyond our control can cause deviations between these techniques and the actual physical situation. Non-invasive methods are used as a guide only and do not constitute a guarantee of accuracy. The information is provided for your information only. It is your responsibility to ensure that the information is used in accordance with the relevant standards and regulations. The information is provided for your information only. It is your responsibility to ensure that the information is used in accordance with the relevant standards and regulations. The information is provided for your information only. It is your responsibility to ensure that the information is used in accordance with the relevant standards and regulations.

For further details, contact your local authority, utility, or other relevant bodies. We do not warrant the accuracy of the information provided. We do not warrant the accuracy of the information provided. We do not warrant the accuracy of the information provided.

While every effort has been made to ensure accuracy, CDP cannot be held responsible for any related subsequent failures that are not covered by this disclaimer.

Please exercise due care and diligence when excavating.

**REMEMBER - ALWAYS EXCAVATE WITH CARE**

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	Standard construction		

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Rev	By	Details	Date
		(P=Preliminary, T=Tender, C=Construction, R=Record)	

Client:

Project:

Access Park, Gloucester

Drawing Title:

Section 278 Works  
Site Constraints Plan

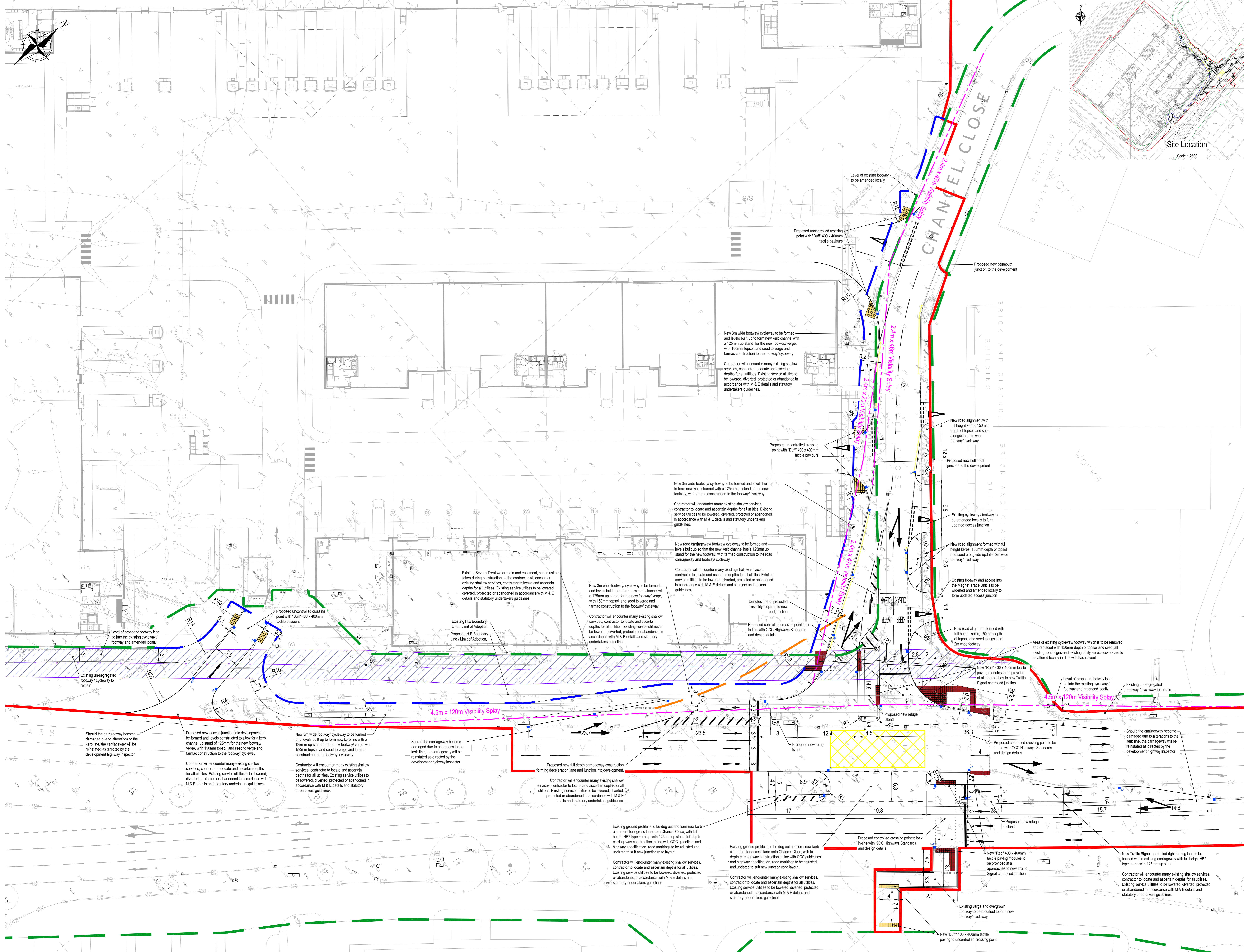
**COMPLETE DESIGN PARTNERSHIP LTD**

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Date:	Apr 22	Drawing No.		Issue Rev.	
Scale:	As Shown @ A1		17-7295-0101		P 4
Drawn:	SH				
Chkd:	JB				

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General Arrangement Layout  
Scale 1:250

**NOTES:**  
 1. All works to be undertaken in accordance with Gloucestershire County Council Manual for Gloucestershire Streets and Essex & Gloucestershire County Council Highway Standard Drawings.  
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 4. The developer and contractor shall confirm they are working in accordance with N343 Volume 1 Guidelines on the Planning and Control Code of Underground Utilities Apparatus and Volume 2 Guidelines on the Protection of Underground Utilities Apparatus for New Development Sites.  
 5. Road barrier to be installed at the back of the adopted footpath to prevent the roots from any proposed new trees undermining the topsoil.  
 6. Retention of the existing kerbs will be subject to inspection and approval by the Local Authority Highway Inspector.  
 7. Reuse of the existing kerbs will be subject to inspection and approval by the Local Authority Highway Inspector. Reconstruction of the existing kerbs to be 300mm parallel to the kerb with a 100mm kerb on the kerb side.  
 8. 150mm (60mm) back edge kerbs with full height kerbs and flange at footway crossings.  
 9. Tactile paving at uncontrolled crossing points to be 400x400mm buff color tactile paving in accordance with GOC TR guidance on the use of paving surfaces.  
 10. All sub-base structures and unconsolidated material within the construction area of the highway, are to be removed.  
 11. CBR values and calculations may be required to determine sub-base thickness.  
 12. Boundary walls will not be replaced.  
 13. Mixed aggregate and frame to BS EN 124, Grade D400, non-slip with captive led and high. Minimum wetness area 900mm squared. Frame depth 100mm. BS6824 coated oxide iron.  
 14. Any existing gullies that are damaged during construction will be replaced with new ones, as agreed with a representative of the Local Authority Highway Department.  
 15. Hand layer of bituminous material to be provided on adoptable carriageway.  
 16. Tarmac road construction to comply with BS EN 13106.  
 17. The provision of a CCTV survey of any highway drainage at the developers expense is required prior to laying the wearing course.  
 18. Where or more water services boundary lines are situated together multi-meter boundary is specified by the Sewerage Undertaker as to be installed.  
 19. A 'Cover' will be provided for the result of the Local Authority requiring that no planting or structure greater than 600mm in height to be permanently situated within the 'visibility splay'.

RESIDUAL RISK		REGISTER	
No.	Description of Hazard	Control Measures	Action By
	Standard Construction	Risk Assessment	Contractor
	Works within existing live road carriageway	Risk Assessment	Contractor
	Shallow Services	Risk Assessment	Contractor & Utility Provider

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**LIGHTING**

- Lighting columns and brackets, CCTV masts and camera masts shall be supplied and installed in accordance with the relevant requirements of BS EN 60529-1, BS EN 60529-2, BS EN 60529-3, BS EN 60529-4, BS EN 60529-5, BS EN 60529-6 and BS 6841-1, BS 6841-2, BS 6841-3, BS 6841-4, BS 6841-5, BS 6841-6, BS 6841-7, BS 6841-8, BS 6841-9, BS 6841-10, BS 6841-11, BS 6841-12, BS 6841-13, BS 6841-14, BS 6841-15, BS 6841-16, BS 6841-17, BS 6841-18, BS 6841-19, BS 6841-20, BS 6841-21, BS 6841-22, BS 6841-23, BS 6841-24, BS 6841-25, BS 6841-26, BS 6841-27, BS 6841-28, BS 6841-29, BS 6841-30, BS 6841-31, BS 6841-32, BS 6841-33, BS 6841-34, BS 6841-35, BS 6841-36, BS 6841-37, BS 6841-38, BS 6841-39, BS 6841-40, BS 6841-41, BS 6841-42, BS 6841-43, BS 6841-44, BS 6841-45, BS 6841-46, BS 6841-47, BS 6841-48, BS 6841-49, BS 6841-50, BS 6841-51, BS 6841-52, BS 6841-53, BS 6841-54, BS 6841-55, BS 6841-56, BS 6841-57, BS 6841-58, BS 6841-59, BS 6841-60, BS 6841-61, BS 6841-62, BS 6841-63, BS 6841-64, BS 6841-65, BS 6841-66, BS 6841-67, BS 6841-68, BS 6841-69, BS 6841-70, BS 6841-71, BS 6841-72, BS 6841-73, BS 6841-74, BS 6841-75, BS 6841-76, BS 6841-77, BS 6841-78, BS 6841-79, BS 6841-80, BS 6841-81, BS 6841-82, BS 6841-83, BS 6841-84, BS 6841-85, BS 6841-86, BS 6841-87, BS 6841-88, BS 6841-89, BS 6841-90, BS 6841-91, BS 6841-92, BS 6841-93, BS 6841-94, BS 6841-95, BS 6841-96, BS 6841-97, BS 6841-98, BS 6841-99, BS 6841-100.
- The lighting columns are to be finished to BS 4800 18-B-25 (Dark Grey) (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- On completion of street lighting installation, a sign of BS 6841-101 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- The engineer shall sign off the works for completion of the lighting installation. A sign of BS 6841-102 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-103 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-104 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-105 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
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- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-113 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-114 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-115 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-116 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-117 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-118 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-119 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new lighting to be installed shall be installed in accordance with the relevant requirements of BS 6841-120 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).

**CONCRETE**

- Concrete to be C25/30 to BS 8500-2. Maximum aggregate size 20mm. Minimum cement content of 280kg/m<sup>3</sup>. Maximum water/cement ratio of 0.45.
- All materials must be approved by the Engineer prior to use. Grading certificates are required for C10 type 1 sub-base material.
- Cement to be BS 58-12.
- Foundation concrete to be cast against natural vertical earth face. Any over excavation to be filled to the appropriate level indicated on drawings with the appropriate grade concrete specified.
- All aggregate material to be removed from the plan location.
- The engineer shall sign off the works for completion of the concrete installation. A sign of BS 6841-121 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-122 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-123 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-124 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-125 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-126 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-127 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-128 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-129 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-130 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-131 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-132 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-133 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-134 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-135 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-136 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-137 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-138 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-139 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- Any new concrete to be installed shall be installed in accordance with the relevant requirements of BS 6841-140 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).

**ROAD MARKINGS**

- Referenced numbers refer to diagram numbers in The Traffic Signs Manual.
- Road markings shall be white thermoplastic based.
- Road markings are to be installed in accordance with the relevant requirements of BS 6841-141 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).
- All road markings and traffic signs shall comply with the traffic signs regulations and general directions and are to be in accordance with BS 6841-142 (or the equivalent RAL colour with a yellow or white band 0.140.0m wide, 1.5-1.7m from ground level).

**KEY:**

- Site Development Planning Application Site Boundary (Approx. 0.3, 0.42 m<sup>2</sup> / 0.13, 0.13 acres)
- Existing Highway Boundary
- Proposed Highway Boundary to be Adopted
- Water Main & Casserment

**FOR APPROVAL**

PS SH	Footway/cycleway note amended from 4m to 3m	31.01.23
PS SH	Base layout and boundary updates	13.01.23
PS SH	Highways boundary updated	04.10.22
PS SH	Base layout updated and client comments incorporated	09.08.22
PS SH	Preliminary Issue	29.04.22
Rev By	Details	Date
	(P=Preliminary, T=Tender, C=Construction, R=Record)	

**Client:**  
CANMOOR

**Project:**  
Access Park, Gloucester

**Drawing Title:**  
Section 278  
General Arrangement

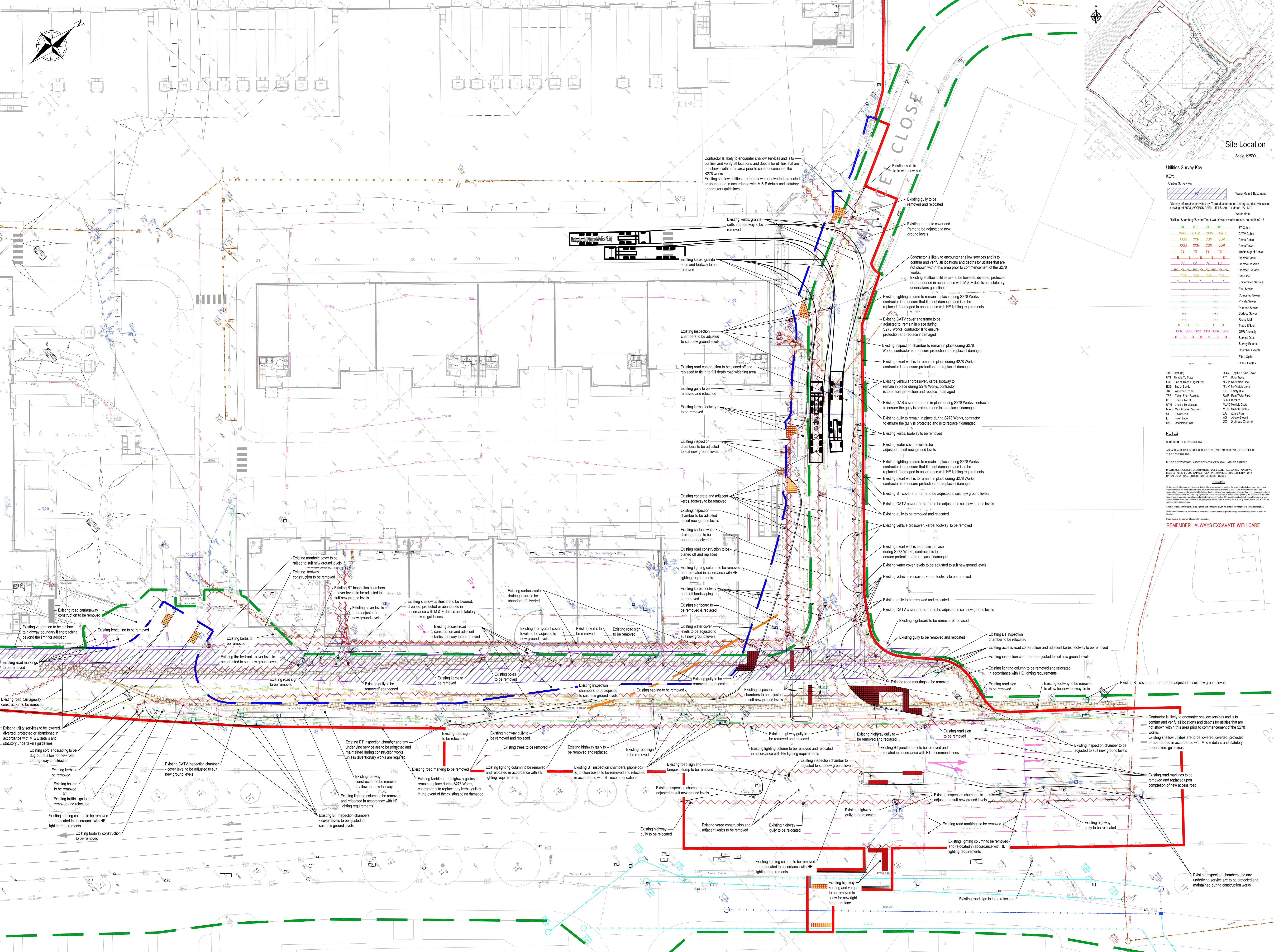
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**COMPLETE DESIGN PARTNERSHIP LTD**

**Date:** Apr 22  
**Scale:** 1:250 @ A0  
**Drawn:** SH  
**Chkd:** JB

**Drawing No.:** 17-7295-0102  
**Issue Rev.:** P 5

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**NOTES:**  
 Dimensions provided are indicative only and should be confirmed and read in conjunction with the Architect's construction drawings at such times as they are available, and/or from site measurement.  
 All setting out to be in accordance with the Architect's drawings, any ambiguities to be raised prior to construction.

RESIDUAL RISK		REGISTER	
No.	Description of Hazard	Control Measures	Action By
	Standard Construction Works within existing live road carriageway	Risk Assessment	Contractor
	Shallow Services	Risk Assessment	Contractor & Utility Provider

- NOTES:**
- All works to be undertaken in accordance with Gloucestershire County Council Manual for Gloucestershire Streets 2nd Edition & Gloucestershire County Council Highway Section 2 Drawings.
  - All Statutory Undertakers, including cable television companies, must be contacted prior to commencing any works to ascertain the location and depth of their apparatus. In the event of any protection or diversionary works being necessary to their apparatus then any costs incurred will be the contractors responsibility for arranging any payment.
  - The Contractor shall provide, erect and maintain such traffic signs, lamps, barriers and traffic control signals, and such measures may be necessitated by the construction of the works in accordance with the recommendations contained in Chapter 6 of the Traffic Signs Manual.
  - The developer and contractor shall coordinate their works in accordance with NRS32 Volume 1 Guidelines on the Protection and Control of Underground Utilities Apparatus and Volume 2 Guidelines on the Protection of Intergrated Utilities Apparatus for New Development Sites.
  - Road barrier to be installed at the back of the adopted footpath to prevent the roots from any proposed trees undermining the barrier.
  - Retention of the existing kerbs will be subject to inspection and approval by the Local Authority Highway Inspector.
  - Location of the existing kerbs will be subject to inspection and approval by the Local Authority Highway Inspector. Reconstruction of the existing channel line to have 300mm kerbside on each kerbside layer 10m to be constructed.
  - 150mm x 20mm backing kerbs will be laid to suit and built at footway elevations.
  - Existing gullies that are damaged during construction will be replaced with new ones, as agreed with a representative of the Local Authority Highway Department.
  - Head height of manholes remains to be confirmed on-site by the contractor.
  - Tarmac road construction to comply with BS EN 13106.
  - The position of a CCTV survey of any highway drainage, at the developers expense, in respect of any laying the existing kerbs.
  - 100% of water services boundary lines are situated together multimeter boundary as specified by the Sewerage Undertaker are to be installed.
  - A Cover will be provided to the benefit of the Local Authority ensuring that no planting or structure greater than 600mm high is permitted within the safety zone.

**Site Location**  
 Scale 1:2500

**Utilities Survey Key**  
 KEY:

- Utilities Survey Key
- Water Main
  - Gas
  - Electric
  - BT Cable
  - CATV Cable
  - Comms Cable
  - Concrete
  - Traffic Signal Cable
  - Electric Cable
  - Electric LV/Cable
  - Electric HV/Cable
  - Gas Pipe
  - Underground Service
  - Foul Sewer
  - Concrete Sewer
  - Plastic Sewer
  - Surface Sewer
  - Rising Sewer
  - Traffic Light
  - SPW Manway
  - Service Duct
  - Survey Extents
  - Chamber Extents
  - Files Duct
  - DCV Cables

- CONCRETE**
- Concrete to be BS EN 12518:2. Maximum aggregate size 20mm. Minimum cement content of 280kg/m<sup>3</sup> (minimum assessment rate of 0.8).
  - All materials must be approved by the Engineer prior to use. Grading certificates are required for C10 type 1 sub-base material.
  - Concrete to be C15/20.
  - Foundation concrete to be cast against natural vertical earth face. Any reinforcement to be fixed to the appropriate levels indicated, nominally, with the appropriate grade concrete specified.
  - All aggregate material (except for the sub-base) to be removed from the site footprint.
  - The Engineer will be given 48 hours for checking dimensions, reinforcement grade & etc.
  - All excavations or concrete foundations shall be excavated, checked for safe bearing capacity (see above), and filled with concrete to a depth of 100mm below the finished level. All foundations to be approved by the L.A. Inspector.
  - Any over dig to reach a suitable formation level and removal of 'soft' spots' encountered during excavation works is to be made up in compacted sub-grade to 100mm below the finished level. All formation to be approved by the L.A. Inspector.
  - Foundations are to be protected against corrosion with DPO.

- ROAD MARKING**
- Refer to the relevant section of the Traffic Signs Manual.
  - Road markings shall be white thermoplastic paint.
  - Road markings are to be laid according to the BS461 minimum safe resistance class 55 to BS EN 1438. All road markings and traffic signs shall comply with the traffic signs regulations and general directions and are to be in accordance with BS 6821:1-3.

- REMEMBER - ALWAYS EXCAVATE WITH CARE**
- FOR APPROVAL

**FOR APPROVAL**

PA SH Base layout and boundary updates 13.01.23  
 PS SH Highways boundary updated 04.10.22  
 P2 SH Base layout updated and client comments incorporated 09.08.22  
 P1 SH Preliminary Issue 23.04.22  
 Rev By (P) Preliminary, T/Tender, C/Construction, R/Record Date

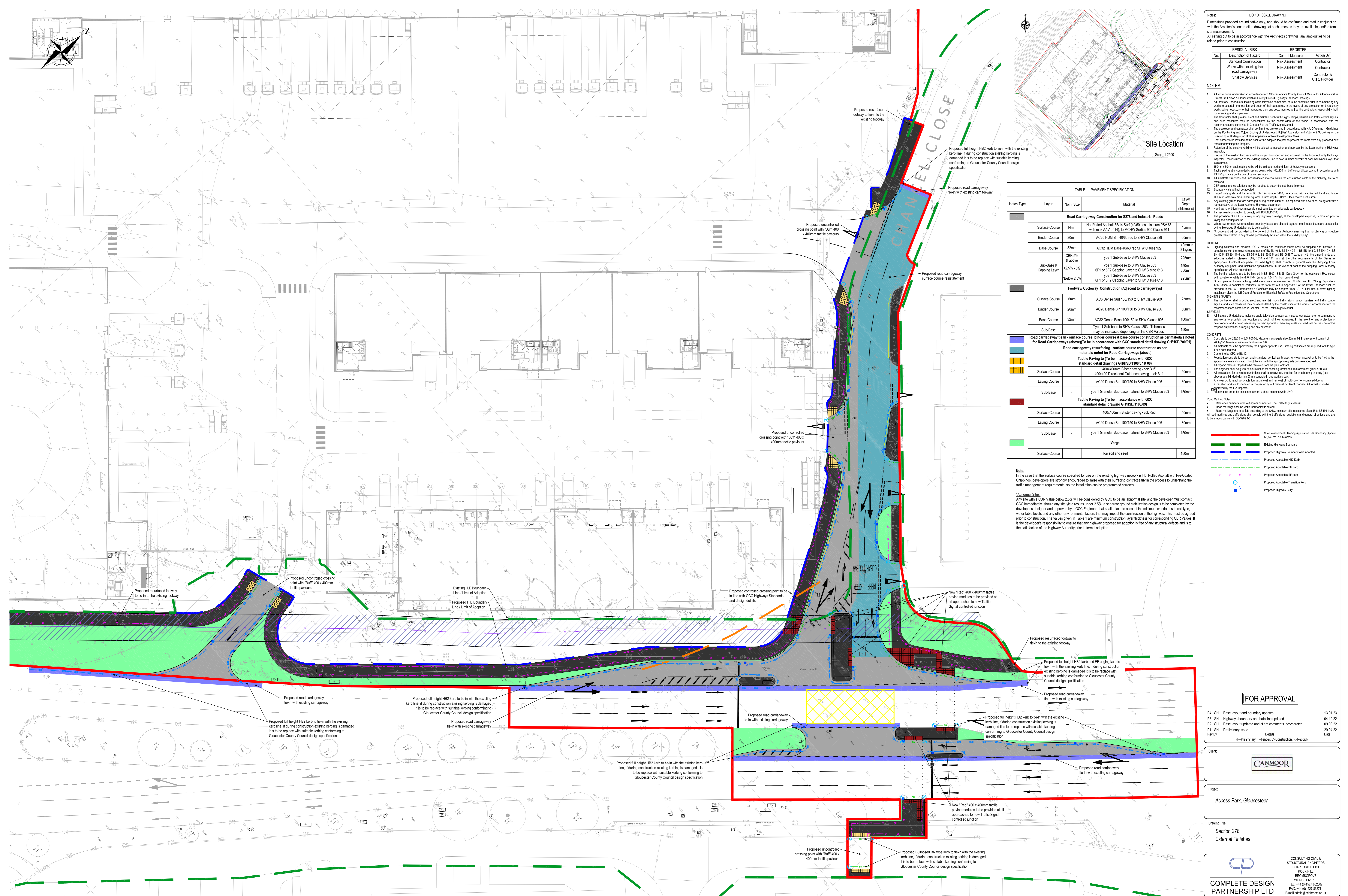
Client: **CANMOOR**

Project: **Access Park, Gloucester**

Drawing Title: **Section 278 Site Clearance**

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Date: Apr 22 Drawing No: 17-7295-0103 Issue Rev: P 4  
 Scale: 1:250 @ A0  
 Drawn: SH  
 Chd: JB  
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**NOTES:**  
 Dimensions provided are indicative only and should be confirmed and read in conjunction with the Architect's construction drawings at such times as they are available, and/or from site measurement.  
 All settings shall be in accordance with the Architect's drawings, any ambiguities to be raised prior to construction.

RESIDUAL RISK		REGISTER	
No.	Description of Hazard	Control Measures	Action By
	Standard Construction	Risk Assessment	Contractor
	Works within existing live road carriageway	Risk Assessment	Contractor
	Shallow Services	Risk Assessment	Contractor & Utility Provider

**NOTES:**

- All works to be undertaken in accordance with Gloucestershire County Council Manual for Gloucestershire Streets and Gloucestershire County Council Highway Standard Drawings.
- All Statutory Undertakers, including cable television companies, must be contacted prior to commencing any works to ascertain the location and depth of their apparatus. In the event of any protection or diversionary works being necessary to their apparatus then any costs incurred will be the contractors responsibility for arranging and any payment.
- The Contractor shall provide, erect and maintain such traffic signs, lamps, barriers and traffic control signals and such measures may be necessitated by the construction of the works in accordance with the recommendations contained in Chapter 4 of the Traffic Signs Manual.
- The developer and contractor shall confirm they are working in accordance with N333 Volume 1 Guidelines on the Planning and Control Code of Underground Utilities Apparatus and Volume 2 Guidelines on the Protection of Underground Utilities Apparatus for New Development Sites.
- Root barrier to be installed at the back of the adopted footpath to prevent the roots from any proposed new trees undermining the footpath.
- Retention of the existing kerbs will be subject to inspection and approval by the Local Authority Highway Inspector.
- Reuse of the existing kerb base will be subject to inspection and approval by the Local Authority Highway Inspector. Reconstruction of the existing kerb line to have 300mm concrete to be replaced with suitable kerbing conforming to Gloucester County Council design specification.
- 150mm concrete back edging kerbs with 100mm concrete and 40mm kerb base.
- Tactile paving at uncontrolled crossing points to be 400x400mm buff color blister paving in accordance with GDCR guidance on the use of paving kerbs.
- All sub-base structures and unconsolidated material within the construction width of the highway, are to be removed.
- CBR values and calculations may be required to determine sub-base thickness.
- Boundary walls will not be adopted.
- Height of kerbs shall be in accordance with BS EN 124, Grade D400, non-sloping with capless flat hand and fringe. Minimum roadway area 900mm squared. Frame depth 100mm. Black coated oxide iron.
- Any existing gullies that are damaged during construction will be replaced with new ones, as agreed with a representative of the Local Authority Highway Department.
- Head lighting of all vehicles is to be in accordance with the requirements of the Highway Act 1980.
- Tarmac road construction to comply with BS EN 13036.
- The provision of a CCTV survey of any highway drainage, at the developers expense, is required prior to laying the wearing course.
- Where or more water sensitive boundary lines are situated together making their boundary to be protected by the Statutory Undertaker are to be installed.
- Coverlet shall be provided to the satisfaction of the Local Authority Highway Inspector, no planting or structure greater than 600mm in height to be permanently situated within the visibility splay.

- LIGHTING**
- Lighting columns and brackets, CCTV masts and corridor masts shall be supplied and installed in accordance with the relevant requirements of BS EN 60598-1, BS EN 60598-2, BS EN 60598-3, BS EN 60598-4, BS EN 60598-5, BS EN 60598-6, BS EN 60598-7, BS EN 60598-8, BS EN 60598-9, BS EN 60598-10, BS EN 60598-11 and all other requirements of this Series as appropriate. Electrical equipment for road lighting shall comply in general with the Adopting Local Authority equipment and installation specifications, in the event of conflict the adopting local authority specification will take precedence.
  - The lighting columns shall be finished to BS 4800 19-B-25 (Dark Grey) (or the equivalent RAL colour with a yellow or white band 0.140.10m wide, 1.5-1.7m from ground level).
  - On construction of new lighting installations, as a requirement of BS 5717 and BS 5718, the lighting installation shall be provided with a minimum of 100% of the required lighting level for the use of street lighting installation given the E.E Code of Practice for Electrical Safety in Public Lighting Operations.
- SHOULDER SAFETY**
- The Contractor shall provide, erect and maintain such traffic signs, lamps, barriers and traffic control signals, and such measures may be necessitated by the construction of the works in accordance with the recommendations contained in Chapter 4 of the Traffic Signs Manual.

- SERVICES**
- All Statutory Undertakers, including cable television companies, must be contacted prior to commencing any works to ascertain the location and depth of their apparatus. In the event of any protection or diversionary works being necessary to their apparatus then any costs incurred will be the contractors responsibility for arranging and any payment.
- CONCRETE**
- Concrete to be C25/30 to BS 8500-2. Maximum aggregate size 20mm. Minimum cement content of 280kg/m<sup>3</sup>. Maximum water/cement ratio of 0.45.
  - All materials must be approved by an Engineer prior to use. Casting certificates are required for C10 type 1 sub-base material.
  - Cement for C10 type 1 sub-base.
  - Foundation concrete to be cast against natural vertical earth face. Any over excavation to be filled to the appropriate level and compacted, with the appropriate grade concrete specified.
  - All aggregate material (spoil) to be removed from the site prior to construction.
  - The aggregate shall be given 7 days curing for concrete formation, reinforcement grade III etc.
  - All reinforcement for concrete formation shall be enclosed, checked for safe bearing capacity (see above) and labelled with the 30mm concrete to one working day.
  - Any over dig to be replaced with suitable formation level and reinforced with 100mm reinforcement during excavation works to be made up in compacted type 1 material or Gen 3 concrete. All materials to be approved by the L.A. Highway Inspector.
  - Foundations are to be positioned centrally above columns/walls (UO).

- Road Marking Notes**
- Reference numbers refer to diagram numbers in the Traffic Signs Manual.
  - Road markings shall be white thermoplastic road.
  - All road markings are to be installed according to the SMM6 minimum sight distance class 55 to BS EN 1406. All road markings and traffic signs shall comply with the traffic signs regulations and general directions and are to be in accordance with BS 6820 1-3.
- Site Development Planning Application Site Boundary (Approx 53.142 m<sup>2</sup> / 13.13 acres)**
- Existing Highway Boundary
  - Proposed Highway Boundary to be Adopted
  - Proposed Adoptable H&B Kerb
  - Proposed Adoptable H&B Kerb
  - Proposed Adoptable H&B Kerb
  - Proposed Adoptable EF Kerb
  - Proposed Adoptable Transition Kerb
  - Proposed Highway Gully

**TABLE 1 - PAVEMENT SPECIFICATION**

Hatch Type	Layer	Nom. Size	Material	Layer Depth (Thickness)
<b>Road Carriageway Construction for M278 and Industrial Roads</b>				
[Grey]	Surface Course	14mm	Hot Rolled Asphalt SS14 Surf 40/80 min minimum FSV 65 with max AAV of 54, to MCHW Series 300 Clause 911	45mm
	Binder Course	20mm	AC20 HDM Bin 40/60 rec to SHW Clause 929	60mm
	Base Course	32mm	AC22 HDM Base 40/60 rec to SHW Clause 929	140mm in 2 layers
[Blue]	Sub-Base & Capping Layer	CBR 5% & above	Type 1 Sub-base to SHW Clause 803	225mm
		+2.5% - 5%	8F1 or 8F2 Capping Layer to SHW Clause 613	150mm 300mm
[Green]	Footway Cowlery Construction (Adjacent to carriageways)	CBR 2.5%	Type 1 Sub-base to SHW Clause 803	225mm
		8F1 or 8F2 Capping Layer to SHW Clause 613		
[Dark Grey]	Surface Course	6mm	AC6 Dense Surf 100/150 to SHW Clause 909	25mm
	Binder Course	20mm	AC20 Dense Bin 100/150 to SHW Clause 906	60mm
	Base Course	32mm	AC22 Dense Base 100/150 to SHW Clause 906	100mm
[Light Grey]	Sub-Base	-	Type 1 Sub-base to SHW Clause 803 - Thickness may be increased depending on the CBR Values.	150mm
		-		
[Yellow]	Surface Course	-	400x400mm Blister paving - col. Buff	50mm
	Laying Course	-	AC20 Dense Bin 100/150 to SHW Clause 906	30mm
	Sub-Base	-	Type 1 Granular Sub-base material to SHW Clause 803	150mm
[Red]	Surface Course	-	400x400mm Blister paving - col. Red	50mm
	Laying Course	-	AC20 Dense Bin 100/150 to SHW Clause 906	30mm
	Sub-Base	-	Type 1 Granular Sub-base material to SHW Clause 803	150mm
[Green]	Surface Course	-	Vege	150mm
		-		

**Note:**  
 In the case that the surface course specified for use on the existing highway network is Hot Rolled Asphalt with Pre-Cooled Chippings, developers are strongly encouraged to liaise with their surfacing contractor early in the process to understand the traffic management requirements, so the installation can be programmed correctly.

**Abnormal Sites:**  
 In the case that the surface course specified for use on the existing highway network is Hot Rolled Asphalt with Pre-Cooled Chippings, developers are strongly encouraged to liaise with their surfacing contractor early in the process to understand the traffic management requirements, so the installation can be programmed correctly.

Any site with a CBR Value below 2.5% will be considered by GDC to be an 'abnormal site' and the developer must contact GDC immediately, should any site yield results under 2.5% a separate ground stabilization design to be completed by the developer's designer and approved by a GDC Engineer, that shall take into account the minimum criteria of sub-soil type, water table levels and any other environmental factors that may impact the construction of the highway. This must be agreed prior to construction. The values given in Table 1 are minimum construction layer thicknesses for corresponding CBR Values. It is the developer's responsibility to ensure that any highway proposed for adoption is free of any structural defects and is to the satisfaction of the Highway Authority prior to formal adoption.

**FOR APPROVAL**

P4 SH	Base layout and boundary updates	13.01.23
P3 SH	Highways boundary and hatching updated	04.10.22
P2 SH	Base layout updated and client comments incorporated	09.08.22
P1 SH	Preliminary Issue	29.04.22
Rev By	Details	Date
	(P=Preliminary, T=Tender, C=Construction, R=Record)	

Client: **CANMOOR**

Project: **Access Park, Gloucester**

Drawing Title: **Section 278 External Finishes**

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Scale:	1:250 @ A0				4
Drawn:	SH				
Chd:	JB				

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**External Finishes Layout**  
 Scale 1:250