



Cambridge South East Transport Phase 2

Outline Business Case

Appendix N: Preferred Option Drawings

15 May 2020

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Cambridge South East Transport Phase 2

Outline Business Case

Appendix N: Preferred Option Drawings

15 May 2020

Issue and Revision Record

Revision	Date	Originator	Checker	Approver	Description
A	27/03/2020	M Ring	C Harwood	J Saldanha	Issued for approval
B	15/05/2020	M Ring	C Harwood	M Payne	Issued for approval

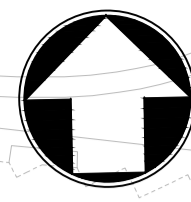
Document reference: 403394-MMD-BCA-XX-RP-BC-0360 Rev B

Information class: Standard

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	Proposed footway
	Proposed Public Transport Route (PTR)
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- Reference drawings**
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P2	27/03/2020	PZ	Second issue	LC	JS
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Rev	Date	Drawn	Description	Ch'kd	App'd

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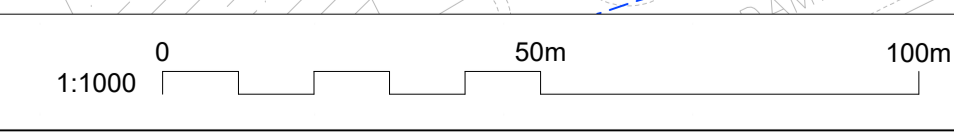
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Title

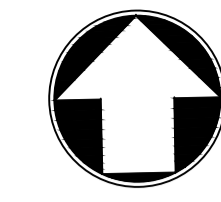
CSET Phase 2
Preferred Option
Francis Crick Avenue Layout 1
Sheet 1 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS

Scale at A1	Status	Rev	Security
1:1000	PRE	P2	STD
Drawing Number			
403394-MMD-HWA-00-DR-HW-0302			



For Continuation See Sheet 2 of 19



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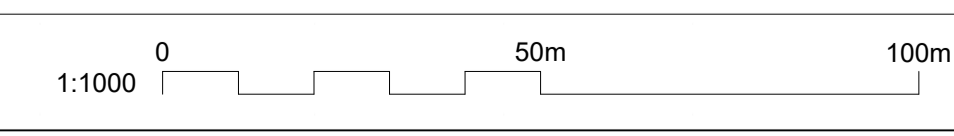
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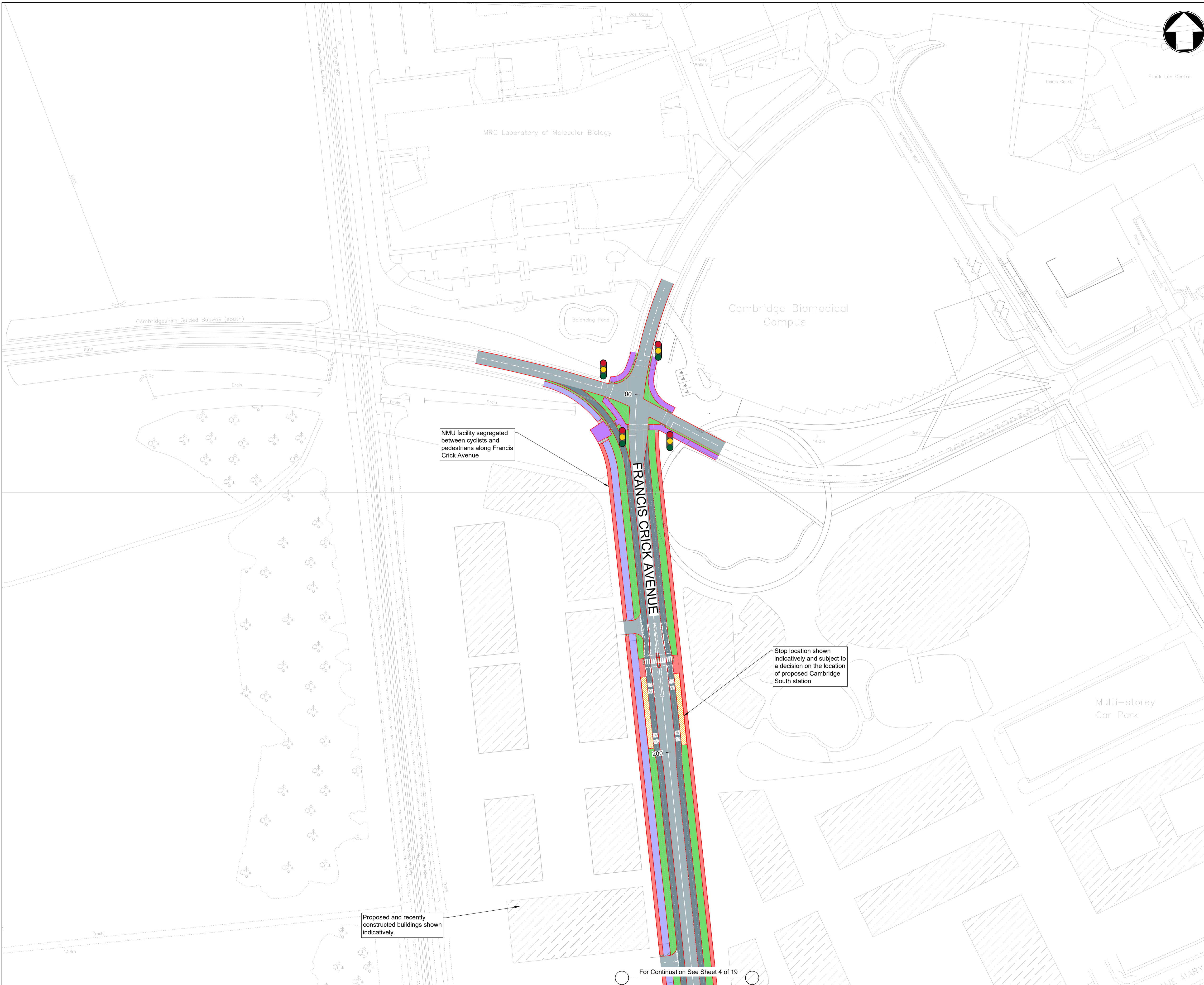
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Preferred Option
Francis Crick Avenue Layout 1
Sheet 2 of 19**

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
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Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	Status	Rev	Security		
1:1000	PRE	P2	STD		

Drawing Number
403394-MMD-HWA-00-DR-HW-0303





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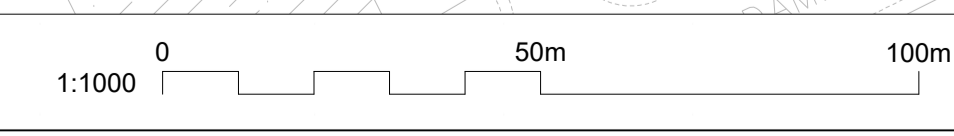
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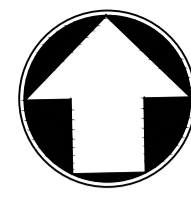
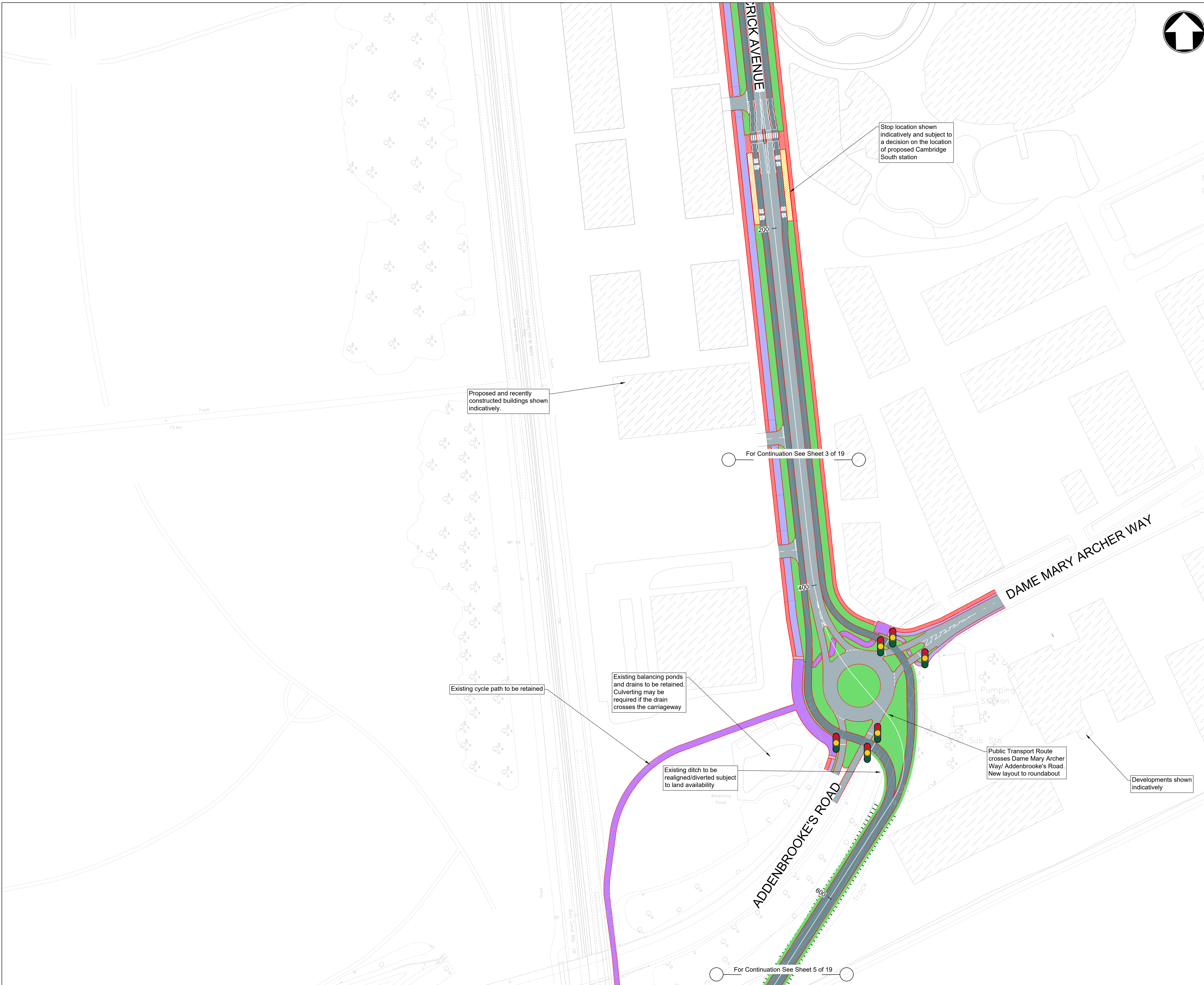
CSET Phase 2
Preferred Option
Francis Crick Avenue Layout 4
Sheet 3 of 19

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Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS

Scale at A1	Status	Rev	Security
1:1000	PRE	P2	STD

Drawing Number
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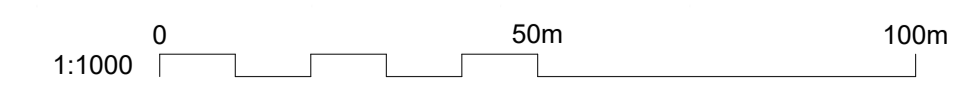
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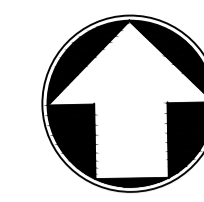
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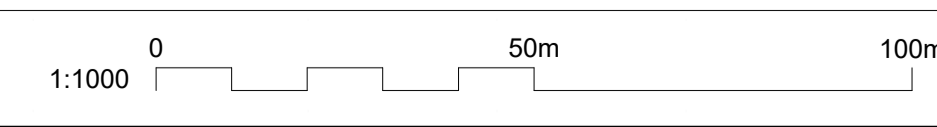
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	Title
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 403394-MMD-HWA-XX-M2-HW-0001 OS Map

P2	27/03/2020	PZ	Second issue	LC	JS
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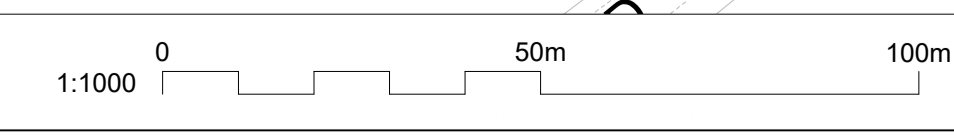
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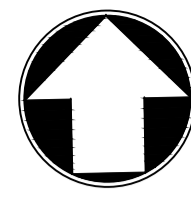
Title
 CSET Phase 2
 Preferred Option
 Sheet 6 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS

Scale at A1	Status	Rev	Security
1:1000	PRE	P2	STD

Drawing Number
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Key to Symbols

	Proposed verge
	Proposed non motorised user (NMU) facility
	Proposed Public Transport Route (PTR)
	Proposed tactile paving (red)
	Existing carriageway
	Kerblines
	Road marking of pedestrian crossings
	Embankment/Cutting
	Proposed Traffic Signal

- Reference drawings**
- 403394-MMD-HWA-00-DR-HW-0302 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 1 of 19
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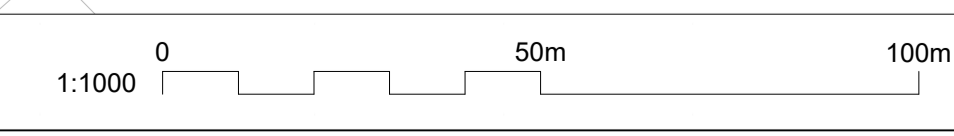
Title
 CSET Phase 2
 Preferred Option
 Sheet 7 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS

Scale at A1	Status	Rev	Security
1:1000	PRE	P2	STD

Drawing Number
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Key to Symbols

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	Landscaping		Cycle lockers
	Proposed Bus Stop		Embankment/Cutting
	Proposed footway		Proposed Traffic Signal
	Existing carriageway		
	Existing cycle/footpath		
	Disabled parking bay		
	Proposed tactile paving (red)		
	Proposed tactile paving (buff)		
	Proposed non motorised user (NMU) facility		
	Proposed Public Transport Route (PTR)		
	Kerline		
	Road marking of pedestrian crossings		

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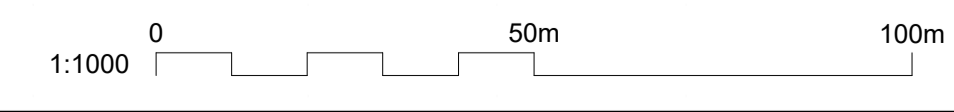
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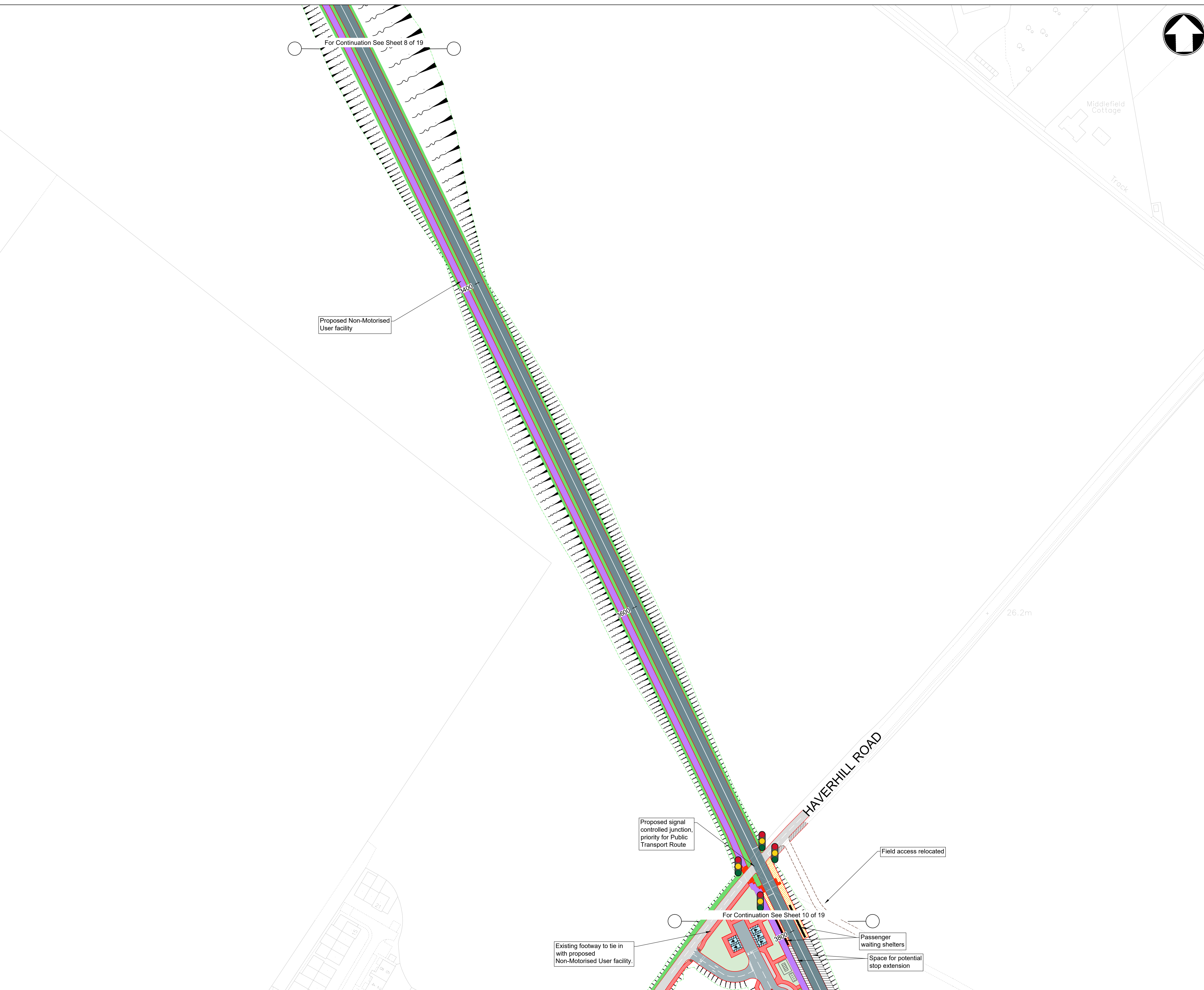
Title
CSET Phase 2 Preferred Option Sheet 8 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
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Drawing Number
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Key to Symbols

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	Landscaping		Cycle lockers
	Hardstanding		Embankment/Cutting
	Proposed Bus Stop		Proposed Traffic Signal
	Proposed footway		Proposed Access Track
	Existing carriageway		
	Existing cycle/footpath		
	Disabled parking bay		
	Proposed tactile paving (red)		
	Proposed tactile paving (buff)		
	Proposed non motorised user (NMU) facility		
	Proposed Public Transport Route (PTR)		
	Kerblines		
	Road marking of pedestrian crossings		

Reference drawings

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 403394-MMD-HWA-XX-M2-HW-0001 OS Map

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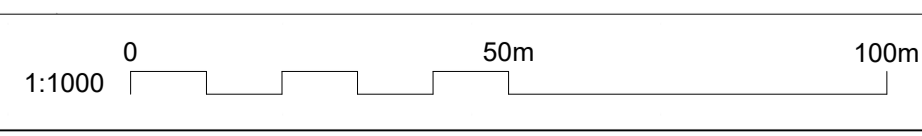
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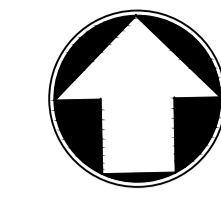
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Title
**CSET Phase 2
 Preferred Option
 Sheet 9 of 19**

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	1:1000	Status	PRE	Rev	P2
		Security			STD

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Key to Symbols

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	Landscaping		Cycle lockers
	Hardstanding		Embankment/Cutting
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	Proposed Public Transport Route (PTR)		
	Kerblines		
	Road marking of pedestrian crossings		

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 - 403394-MMD-HWA-XX-M2-HW-0001 OS Map

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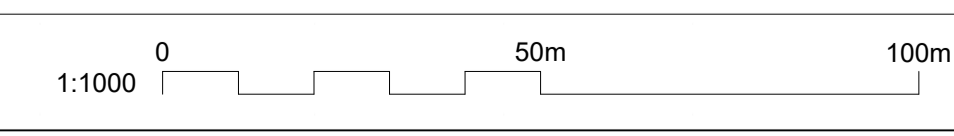
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CSET Phase 2 Preferred Option Sheet 10 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	1:1000	Status	PRE	Rev	P2
		Security			STD

Drawing Number

403394-MMD-HWA-00-DR-HW-0311





For Continuation See Sheet 10 of 19

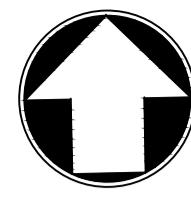
Proposed Non-Motorised User facility

Crossing for existing Public Right of Way

Culverting of drain to be determined at the next design stage

Bridge required over River Granta. Design to be determined at the next stage.

For Continuation See Sheet 12 of 19



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Key to Symbols

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	Hardstanding
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	Public Right of Way

Reference drawings

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P1	13/03/2020	PZ	First issue	LC	MP
Rev	Date	Drawn	Description	Ch'kd	App'd

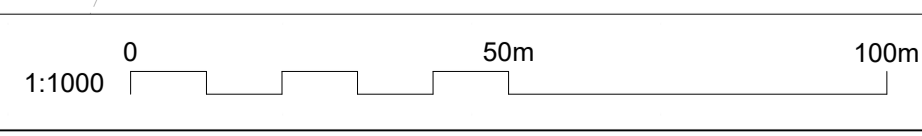
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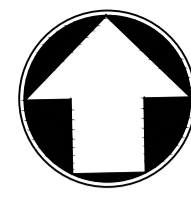
Client

Title
 CSET Phase 2
 Preferred Option
 Sheet 11 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	1:1000	Status	PRE	Rev	P2
		Security			STD

Drawing Number
 403394-MMD-HWA-00-DR-HW-0312





- Notes
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Key to Symbols

	Proposed verge
	Proposed non motorised user (NMU) facility
	Proposed Public Transport Route (PTR)
	Kerbline
	Embankment/Cutting

- Reference drawings
- 403394-MMD-HWA-00-DR-HW-0302 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 1 of 19
 - 403394-MMD-HWA-00-DR-HW-0303 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 2 of 19
 - 403394-MMD-HWA-00-DR-HW-0304 CSET Preferred Option GA Francis Crick Avenue Layout 4 Sheet 3 of 19
 - 403394-MMD-HWA-00-DR-HW-0305 CSET Preferred Option GA Francis Crick Avenue Layout 4 Sheet 4 of 19
 - 403394-MMD-HWA-00-DR-HW-0306 CSET Preferred Option GA Sheet 5 of 19
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 - 403394-MMD-HWA-00-DR-HW-0312 CSET Preferred Option GA Sheet 11 of 19
 - 403394-MMD-HWA-00-DR-HW-0314 CSET Preferred Option GA Sheet 13 of 19
 - 403394-MMD-HWA-00-DR-HW-0315 CSET Preferred Option GA Sheet 14 of 19
 - 403394-MMD-HWA-00-DR-HW-0316 CSET Preferred Option GA Sheet 15 of 19
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 - 403394-MMD-HWA-00-DR-HW-0319 CSET Preferred Option GA Travel Hub Sheet 18 of 19
 - 403394-MMD-HWA-00-DR-HW-0320 CSET Preferred Option GA Travel Hub Sheet 19 of 19
 - 403394-MMD-HWA-00-DR-HW-0334 CSET Preferred Option Highways Typical Cross Section
 - 403394-MMD-HWA-XX-M2-HW-0001 OS Map

P2	27/03/2020	PZ	Second issue	LC	JS
P1	13/03/2020	PZ	First issue	LC	MP
Rev	Date	Drawn	Description	Ch'kd	App'd

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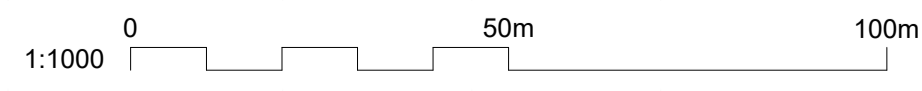
Client

GREATER CAMBRIDGE PARTNERSHIP

Title
CSET Phase 2 Preferred Option
 Sheet 12 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	Status	Rev	Security		
1:1000	PRE	P1	STD		

Drawing Number
403394-MMD-HWA-00-DR-HW-0313





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Key to Symbols

	Proposed verge
	Proposed non motorised user (NMU) facility
	Proposed Public Transport Route (PTR)
	Hardstanding
	Kerblines
	Embankment/Cutting

Reference drawings

403394-MMD-HWA-00-DR-HW-0302 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 1 of 19
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 403394-MMD-HWA-XX-M2-HW-0001 OS Map

P2	27/03/2020	PZ	Second issue	LC	JS
P1	13/03/2020	PZ	First issue	LC	MP
Rev	Date	Drawn	Description	Ch'kd	App'd

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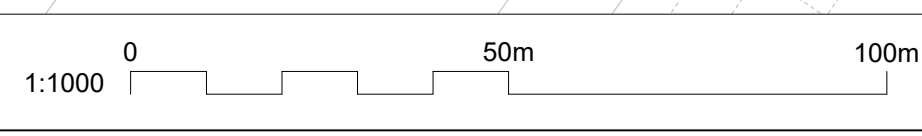
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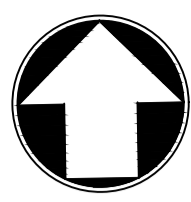
Title
CSET Phase 2 Preferred Option Sheet 13 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	1:1000	Status	PRE	Rev	P2
		Security			STD

Drawing Number
403394-MMD-HWA-00-DR-HW-0314

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Key to Symbols

	Proposed verge		Sheffield Stands
	Landscaping		Cycle lockers
	Hardstanding		Embankment/Cutting
	Proposed footway		Proposed Traffic Signal
	Existing carriageway		Public Right of Way
	Existing cycle/footpath		Kerbline
	Disabled parking bay		Existing non motorised user (NMU) facility
	Proposed tactile paving (red)		
	Proposed tactile paving (buff)		
	Proposed non motorised user (NMU) facility		
	Proposed Public Transport Route (PTR)		
	Proposed Bus Stop		
	Road marking of pedestrian crossings		

- Reference drawings
- 403394-MMD-HWA-00-DR-HW-0302 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 1 of 19
 - 403394-MMD-HWA-00-DR-HW-0303 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 2 of 19
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 - 403394-MMD-HWA-00-DR-HW-0334 CSET Preferred Option Highways Typical Cross Section
 - 403394-MMD-HWA-XX-M2-HW-0001 OS Map

P2	27/03/2020	PZ	Second issue	LC	JS
P1	13/03/2020	PZ	First issue	LC	MP
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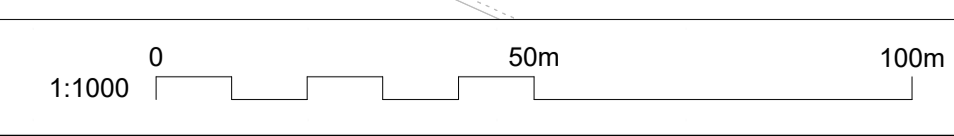
Client

GREATER CAMBRIDGE PARTNERSHIP

Title
CSET Phase 2 Preferred Option Sheet 14 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	Status	Rev	Security		
1:1000	PRE	P2	STD		

Drawing Number
403394-MMD-HWA-00-DR-HW-0315





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Key to Symbols

	Proposed verge
	Proposed non motorised user (NMU) facility
	Proposed Public Transport Route (PTR)
	Hardstanding
	Kerblines
	Embankment/Cutting
	Public Right of Way

Reference drawings

403394-MMD-HWA-00-DR-HW-0302 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 1 of 19
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Rev	Date	Drawn	Description	Ch'kd	App'd
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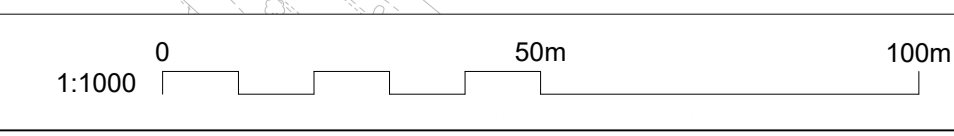
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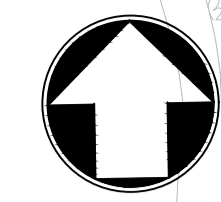
**CSET Phase 2
Preferred Option
Sheet 15 of 19**

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	1:1000	Status	PRE	Rev	P2
		Security			STD

Drawing Number

403394-MMD-HWA-00-DR-HW-0316





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Key to Symbols

	Proposed verge
	Proposed non motorised user (NMU) facility
	Proposed Public Transport Route (PTR)
	Proposed tactile paving (red)
	Existing carriageway
	Kerblines
	Road marking of pedestrian crossings
	Embankment/Cutting
	Proposed Traffic Signal

Reference drawings

403394-MMD-HWA-00-DR-HW-0302 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 1 of 19
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P2	27/03/2020	PZ	Second issue	LC	JS
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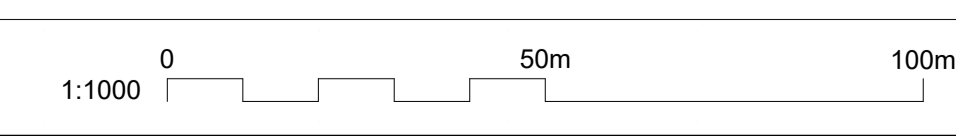


Title
 CSET Phase 2
 Preferred Option
 Sheet 16 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
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Drawing Number
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Key to Symbols

	Proposed verge		Gas main
	Landscaping		Gas main easements
	Hardstanding		Public Right of Way
	Proposed footway		
	Travel Hub Access Road		
	Proposed non motorised user (NMU) facility		
	Proposed Public Transport Route (PTR)		
	Kerblines		
	Zebra crossings		
	Road marking of pedestrian crossings		
	Proposed tactile paving (buff)		
	Embankment/Cutting		

- Reference drawings
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 - 403394-MMD-HWA-00-DR-HW-0311 CSET Preferred Option GA Sheet 10 of 19
 - 403394-MMD-HWA-00-DR-HW-0312 CSET Preferred Option GA Sheet 11 of 19
 - 403394-MMD-HWA-00-DR-HW-0313 CSET Preferred Option GA Sheet 12 of 19
 - 403394-MMD-HWA-00-DR-HW-0314 CSET Preferred Option GA Sheet 13 of 19
 - 403394-MMD-HWA-00-DR-HW-0315 CSET Preferred Option GA Sheet 14 of 19
 - 403394-MMD-HWA-00-DR-HW-0316 CSET Preferred Option GA Sheet 15 of 19
 - 403394-MMD-HWA-00-DR-HW-0317 CSET Preferred Option GA Sheet 16 of 19
 - 403394-MMD-HWA-00-DR-HW-0319 CSET Preferred Option GA Travel Hub Sheet 18 of 19
 - 403394-MMD-HWA-00-DR-HW-0320 CSET Preferred Option GA Travel Hub Sheet 19 of 19
 - 403394-MMD-HWA-00-DR-HW-0334 CSET Preferred Option Highways Typical Cross Section
 - 403394-MMD-HWA-XX-M2-HW-0001 OS Map

P2	27/03/2020	PZ	Second issue	LC	JS
P1	13/03/2020	PZ	First issue	LC	MP
Rev	Date	Drawn	Description	Ch'kd	App'd

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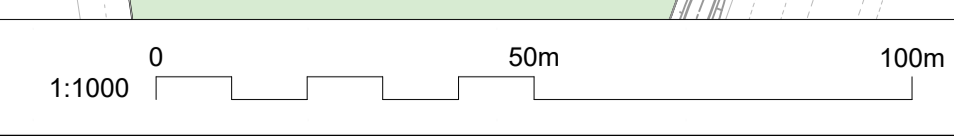
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Title

CSET Phase 2 Preferred Option Sheet 17 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	Status	Rev	Security		
1:1000	PRE	P2	STD		

Drawing Number
403394-MMD-HWA-00-DR-HW-0318





- Notes
1. Dimensions are in metres unless stated otherwise.
 2. Do not scale from the drawing.
 3. Drawing to be printed in colour.
 4. Preliminary route options shown are based on the highway design principles set out in the Design Manual for Roads and Bridges (DMRB). These drawings are subject to further detailed design.
 5. All works are subject to the approval of the local highway authority (Cambridgeshire County Council) and further stakeholder engagement.
 6. Drawings are based on LIDAR information and will require amendments subject to receipt of topographical surveys.
 7. Location and detail of existing utilities to be determined at the next stage of design.
 8. Based on the underlying geology, side slopes of 1 in 4 have been provided along the route.
 9. The design speed is 100kph for the route with a reduction to 40kph in restricted areas (however 50kph has been used as the minimum design speed in line with the DMRB).
 10. OS mapping licence no. © Crown copyright and database rights 2020 OS 100023205
 11. No landscaping, planting or other environmental mitigation is shown on these plans.

Key to Symbols

	Proposed verge		Gas main
	Landscaping		Gas main easements
	Hardstanding		Public Right of Way
	Proposed footway		Sheffield Stands
	Travel Hub Access Road		Cycle lockers
	Disabled parking bay		
	Proposed non motorised user (NMU) facility		
	Proposed Public Transport Route (PTR)		
	Kerblines		
	Zebra crossings		
	Road marking of pedestrian crossings		
	Proposed tactile paving (buff)		
	Embankment/Cutting		

Reference drawings

403394-MMD-HWA-00-DR-HW-0302 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 1 of 19
403394-MMD-HWA-00-DR-HW-0303 CSET Preferred Option GA Francis Crick Avenue Layout 1 Sheet 2 of 19
403394-MMD-HWA-00-DR-HW-0304 CSET Preferred Option GA Francis Crick Avenue Layout 4 Sheet 3 of 19
403394-MMD-HWA-00-DR-HW-0305 CSET Preferred Option GA Francis Crick Avenue Layout 4 Sheet 4 of 19
403394-MMD-HWA-00-DR-HW-0306 CSET Preferred Option GA Sheet 5 of 19
403394-MMD-HWA-00-DR-HW-0307 CSET Preferred Option GA Sheet 6 of 19
403394-MMD-HWA-00-DR-HW-0308 CSET Preferred Option GA Sheet 7 of 19
403394-MMD-HWA-00-DR-HW-0309 CSET Preferred Option GA Sheet 8 of 19
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403394-MMD-HWA-XX-M2-HW-0001 OS Map

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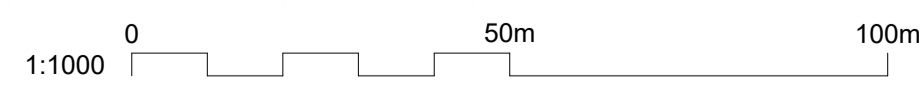
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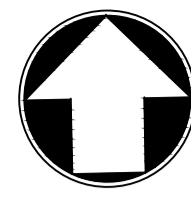
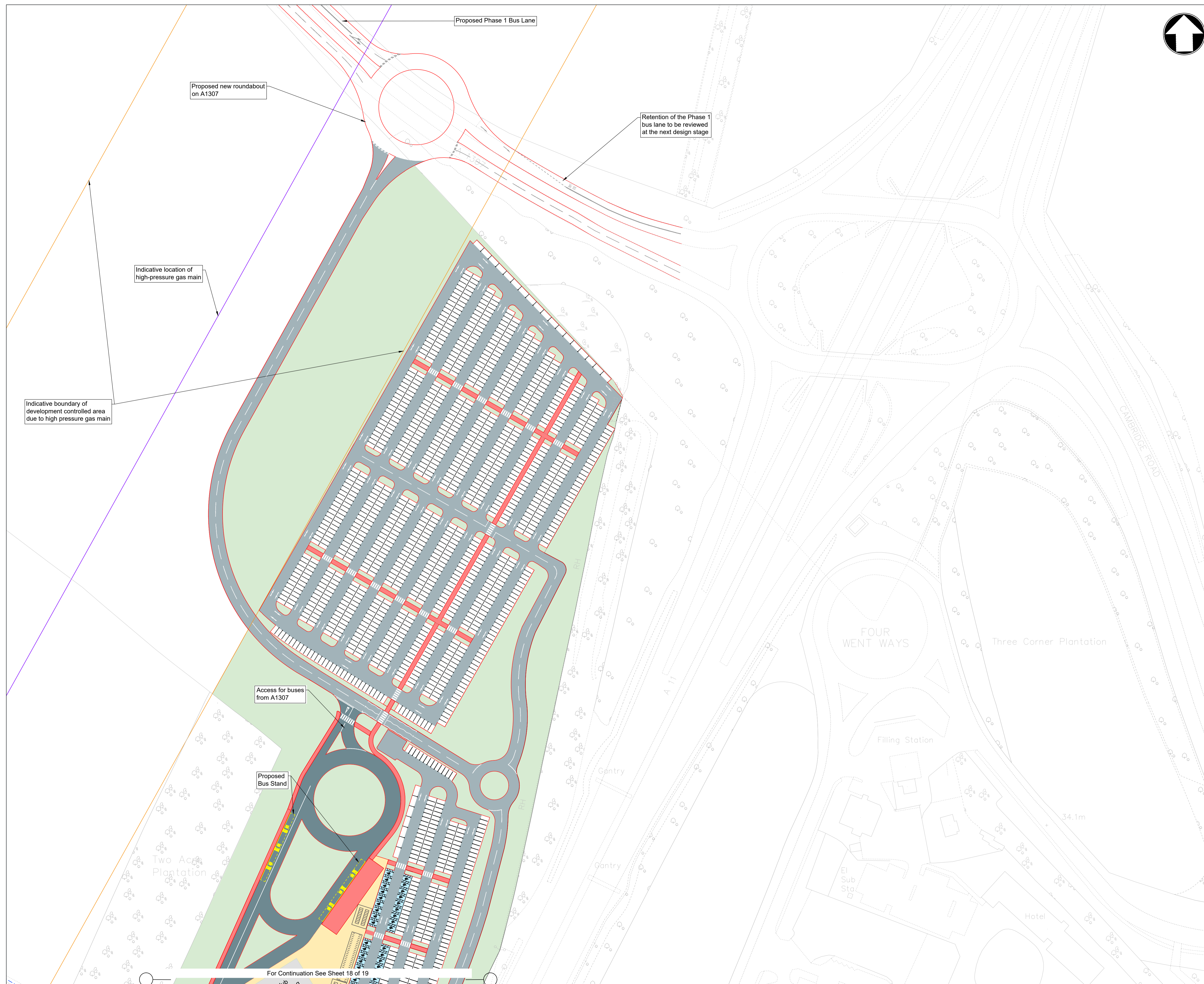
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Title
CSET Phase 2 Preferred Option Travel Hub Sheet 18 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	Status	Rev	Security		
1:1000	PRE	P2	STD		

Drawing Number
403394-MMD-HWA-00-DR-HW-0319





- Notes
- Dimensions are in metres unless stated otherwise.
 - Do not scale from the drawing.
 - Drawing to be printed in colour.
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 - OS mapping licence no. © Crown copyright and database rights 2020 OS 100023205
 - No landscaping, planting or other environmental mitigation is shown on these plans.

Key to Symbols

	Landscaping
	Hardstanding
	Proposed footway
	Travel Hub Access Road
	Disabled parking bay
	Proposed non motorised user (NMU) facility
	Proposed Public Transport Route (PTR)
	Kerblines
	Zebra crossings
	Sheffield Stands
	Cycle lockers
	Gas main
	Gas main easements

- Reference drawings
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Title

CSET Phase 2 Preferred Option Travel Hub Sheet 19 of 19

Designed	P.Zajac	PZ	Eng check	L.Chojnacki	LC
Drawn	P.Zajac	PZ	Coordination	E.Karim	EK
Dwg check	L.Chojnacki	LC	Approved	J.Saldanha	JS
Scale at A1	1:1000	Status	PRE	Rev	P2
		Security			STD

Drawing Number

403394-MMD-HWA-00-DR-HW-0320

