

Appendix B10
Junction Systems Design



BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME

JUNCTION SYSTEM DESIGN

DRAWING SERIES NUMBER(S)

BCIDB-JAC-TSM_IX-0002_XX_00-DR-TR-0001 to 0002
 BCIDB-JAC-TSM_KP-0002_XX_00-DR-TR-0001
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0002
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0003
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0004
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0005
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0006
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0007
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0008
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0009
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0010
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0011
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0012
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0013
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0014
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0015
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0017
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0018
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0019
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0020
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0021
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0022
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0023
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0024
 BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0025

DRAWING SERIES DESCRIPTION

SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN. COVER SHEET
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN. KEY PLAN
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / DUBLIN ROAD JUNCTION (PINNOCKHILL JUNCTION)
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / AIRSIDE / BOROIMHE ROAD JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / N1 BUSINEFM PARK PEDESTRIAN CROFMING
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / KETTLES LANE PEDESTRIAN CROFMING
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / NAUL ROAD JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / COACHMANS INN ACCEFFM PEDESTRIAN CROFMING
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / AIRPORT ACCEFFM / M1 LINK JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / GREEN LONG-TERM CAR PARK / KEALY'S JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / SOUTH CORBALLIS ROAD / RED LONG-TERM CAR PARK JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / OLD AIRPORT ROAD/ COLLINSTOWN AVENUE JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / QUICK PARK CAR PARK JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / ROYAL COLLEGE OF SURGEONS GROUND PEDESTRIAN CROFMING
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / TURNAPIN LANE JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / NORTHWOOD AVENUE JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / MORTON STADIUM PEDESTRIAN CROFMING
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / COOLOCK LANE JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / SANTRY AVENUE JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / MAGENTA CRESENT PEDESTRIAN CROFMING
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / OMNI PARK / LORCAN ROAD JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / SHANOWEN ROAD JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / SHANRATH JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / SHANTALLA ROAD JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / HOLY CHILD CHURCH PEDESTRIAN CROFMING
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / COLLINS AVENUE JUNCTION
 SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / IVERAGH ROAD JUNCTION

C:\pwworking\jacobs_uk_highways_ssa\legint_mulliank\d0144988\BCIDB-JAC-TSM_IX-0002_XX_00-DR-TR-0001.dwg

Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
 e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

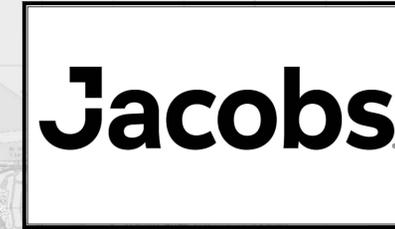


Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer Jacobs		
Date 06/04/2023	Scale NTS @ A1 NTS @ A3	Drawn FM	Checked IL	Approved HOS
Project Code BCIDB	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN COVER SHEET			
Drawing File Name BCIDB-JAC-TSM_IX -0002_XX_00-DR-TR-0001	Sheet Number 01 of 02	Status A	Rev M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME

JUNCTION SYSTEM DESIGN

DRAWING SERIES NUMBER(S)

- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0026
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0027
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0028
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0029
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0030
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0032
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0033
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0034
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0035
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0036
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0037
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0038
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0039
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0040
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0041
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0042
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0043
- BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0044

DRAWING SERIES DESCRIPTION

- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / HIGHFIELD HOSPITAL PEDESTRIAN CROFMING
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / SEVEN OAKS JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / GRIFFITH DOWNS PEDESTRIAN CROFMING
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SWORDS ROAD / GRIFFITH AVENUE JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN UPPER DRUMCONDRA ROAD / HOME FARM ROAD JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN UPPER DRUMCONDRA ROAD / EBYLON HOTEL PEDESTRIAN CROFMING
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN UPPER DRUMCONDRA ROAD / ORMOND ROAD PEDESTRIAN CROFMING
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN UPPER DRUMCONDRA ROAD / RICHMOND ROAD / MILLMOUNT AVENUE JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN UPPER DRUMCONDRA ROAD / BOTANIC AVENUE / CIAN PARK JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN DRUMCONDRA ROAD LOWER / CLONLIFFE ROAD JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN DRUMCONDRA ROAD LOWER / WHITWORTH PLACE / WHITWORTH ROAD JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN DORSET STREET LOWER / BELVIDERE ROAD / INNISFALLIN PARADE JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN DORSET STREET LOWER / NORTH CIRCULAR ROAD JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN DORSET STREET LOWER / SYNOTT PLACE JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN DORSET STREET UPPER / ECCLES STREET JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN DORSET STREET UPPER / BLEFMINGTON STREET / NORTH FREDRICK STREET JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN NORTH FREDRICK STREET / PARNELL SQUARE NORTH JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN DORSET STREET UPPER / GRANBY ROW / ST. MARY'S PLACE JUNCTION
- SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. SYSTEM DESIGN SANTRY VILLAGE PEDESTRIAN CROFMING / COOLOCK LANE-OAK AVE JUNCTION

C:\pwworking\jacobs_uk_highways_ss4\legint_mullian\k0144968\BCIDB-JAC-TSM_IX-0002_XX_00-DR-TR-0002.dwg

<p>Disclaimer</p> <p>a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.</p> <p>b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.</p> <p>c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.</p> <p>d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.</p> <p>e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.</p>				<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Dn</th> <th>Chk'd</th> <th>App'd</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>M01</td> <td>06/04/2023</td> <td>FM</td> <td>IL</td> <td>HOS</td> <td>ISSUE FOR PHASE 4: PLANNING</td> </tr> </tbody> </table>	Rev	Date	Dn	Chk'd	App'd	Description	M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING	<table border="1"> <tr> <td colspan="2">Client</td> <td colspan="2">Engineering Designer</td> </tr> <tr> <td colspan="2"> </td> <td colspan="2"> </td> </tr> <tr> <td>Date</td> <td>06/04/2023</td> <td>Scale</td> <td>NTS @ A1 NTS @ A3</td> </tr> <tr> <td>Project Code</td> <td>BCIDB</td> <td>Originator Code</td> <td>JAC</td> </tr> <tr> <td colspan="2">Drawn</td> <td>Checked</td> <td>Approved</td> </tr> <tr> <td colspan="2">FM</td> <td>IL</td> <td>HOS</td> </tr> <tr> <td colspan="2">QMS Code</td> <td colspan="2"></td> </tr> </table>	Client		Engineering Designer						Date	06/04/2023	Scale	NTS @ A1 NTS @ A3	Project Code	BCIDB	Originator Code	JAC	Drawn		Checked	Approved	FM		IL	HOS	QMS Code				<table border="1"> <tr> <td colspan="2">Programme Title</td> <td colspan="2">BUSCONNECTS DUBLIN</td> </tr> <tr> <td colspan="2">Drawing Title</td> <td colspan="2">CORE BUS CORRIDORS INFRASTRUCTURE WORKS</td> </tr> <tr> <td colspan="2">Drawing File Name</td> <td>Sheet Number</td> <td>Status</td> </tr> <tr> <td colspan="2">BCIDB-JAC-TSM_IX -0002_XX_00 -DR-TR-0002</td> <td>02 of 02</td> <td>A</td> </tr> <tr> <td>Rev</td> <td>M01</td> <td colspan="2"></td> </tr> </table>	Programme Title		BUSCONNECTS DUBLIN		Drawing Title		CORE BUS CORRIDORS INFRASTRUCTURE WORKS		Drawing File Name		Sheet Number	Status	BCIDB-JAC-TSM_IX -0002_XX_00 -DR-TR-0002		02 of 02	A	Rev	M01		
Rev	Date	Dn	Chk'd	App'd	Description																																																													
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING																																																													
Client		Engineering Designer																																																																
Date	06/04/2023	Scale	NTS @ A1 NTS @ A3																																																															
Project Code	BCIDB	Originator Code	JAC																																																															
Drawn		Checked	Approved																																																															
FM		IL	HOS																																																															
QMS Code																																																																		
Programme Title		BUSCONNECTS DUBLIN																																																																
Drawing Title		CORE BUS CORRIDORS INFRASTRUCTURE WORKS																																																																
Drawing File Name		Sheet Number	Status																																																															
BCIDB-JAC-TSM_IX -0002_XX_00 -DR-TR-0002		02 of 02	A																																																															
Rev	M01																																																																	

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_KP-0002_XX_00-DR-TR-0001.dwg

Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer: **Jacobs**

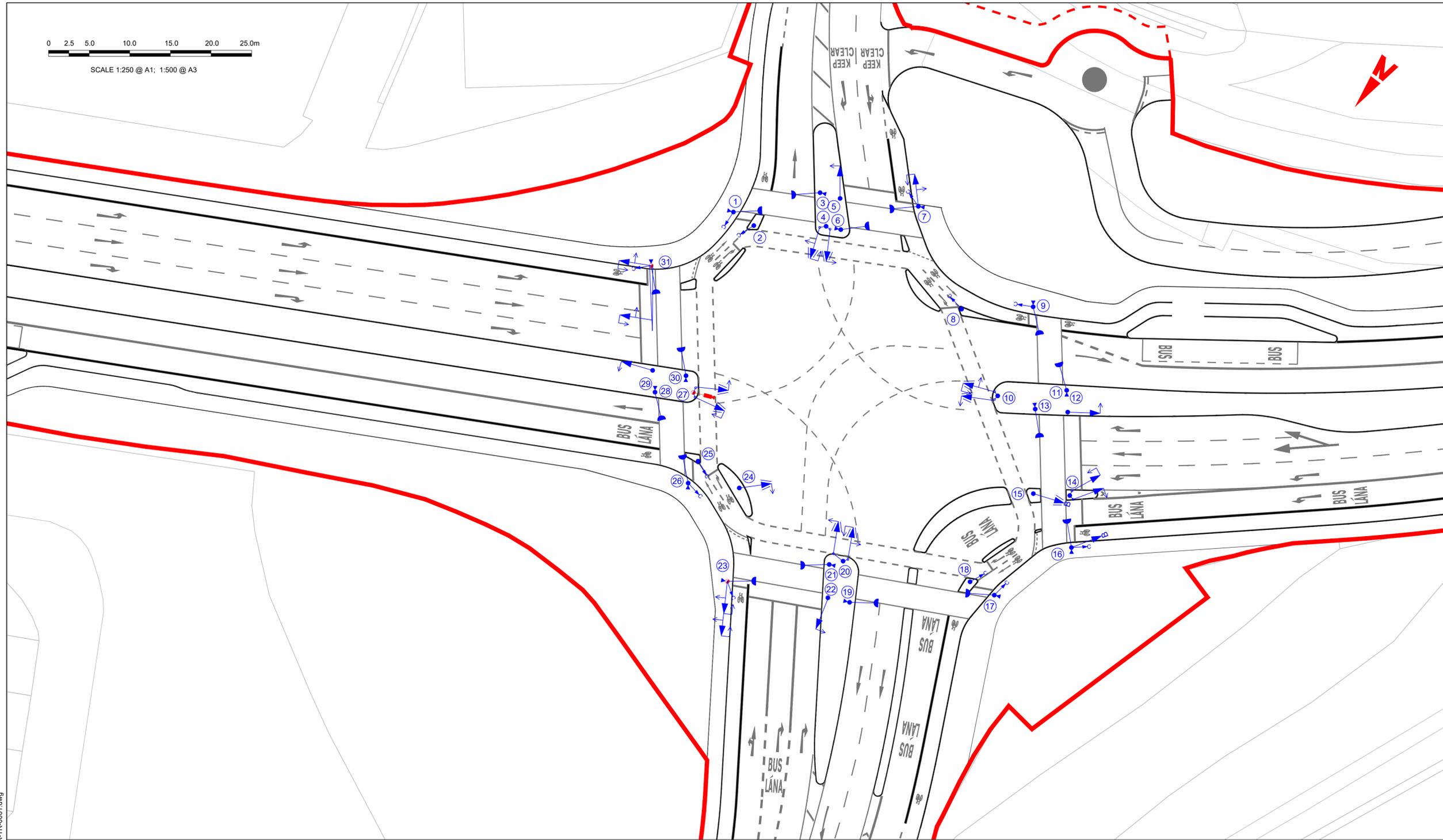
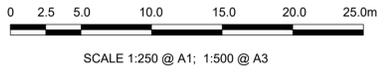
Date: 06/04/2023
 Scale: 1:15000 @ A1
 1:30000 @ A3

Drawn: FM
 Checked: IL
 Approved: HOS

Project Code: BCIDB
 Originator Code: JAC
 QMS Code:

Programme Title: BUSCONNECTS DUBLIN			
Core Bus Corridors Infrastructure Works			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME			
JUNCTION SYSTEMS DESIGN			
KEY PLAN			
Drawing File Name: BCIDB-JAC-TSM_KP-0002_XX_00-DR-TR-0001	Sheet Number: 01 of 01	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001: [Symbol]

RTS 002: [Symbol]

RTS 003: [Symbol]

RTS 007: [Symbol]

RPC 004: [Symbol]

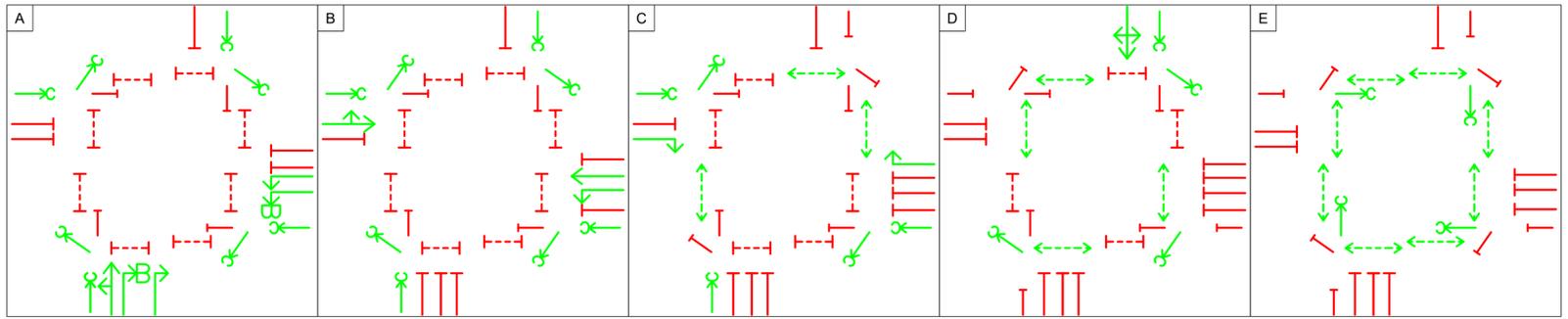
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 Scale: 1:250 @ A1, 1:500 @ A3

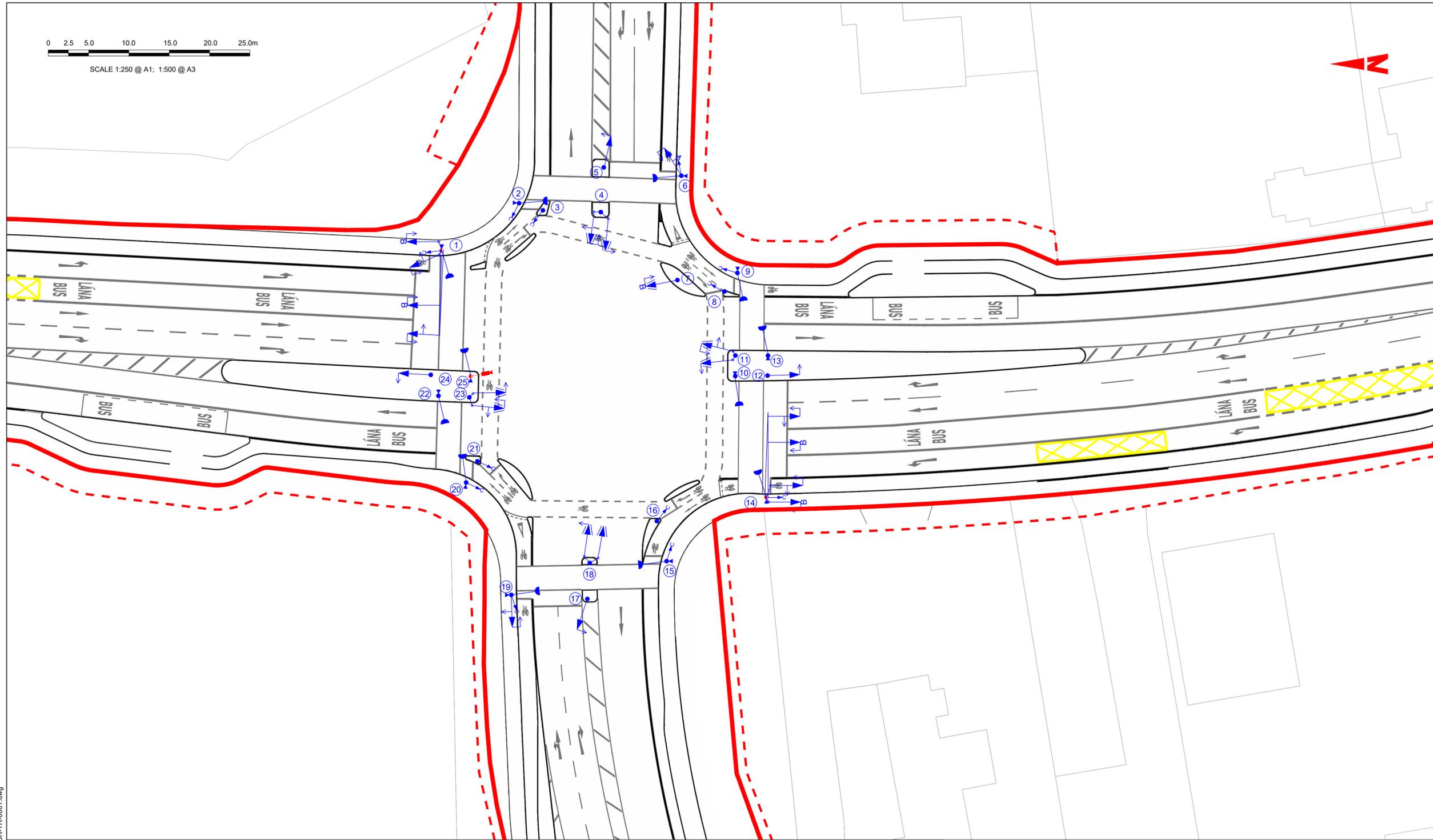
Drawn: FM, Checked: IL, Approved: HOS

Project Code: BCIDB, Originator Code: JAC, QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / DUBLIN ROAD JUNCTION (PINNOCKHILL JUNCTION)			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001	Sheet Number: 01 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

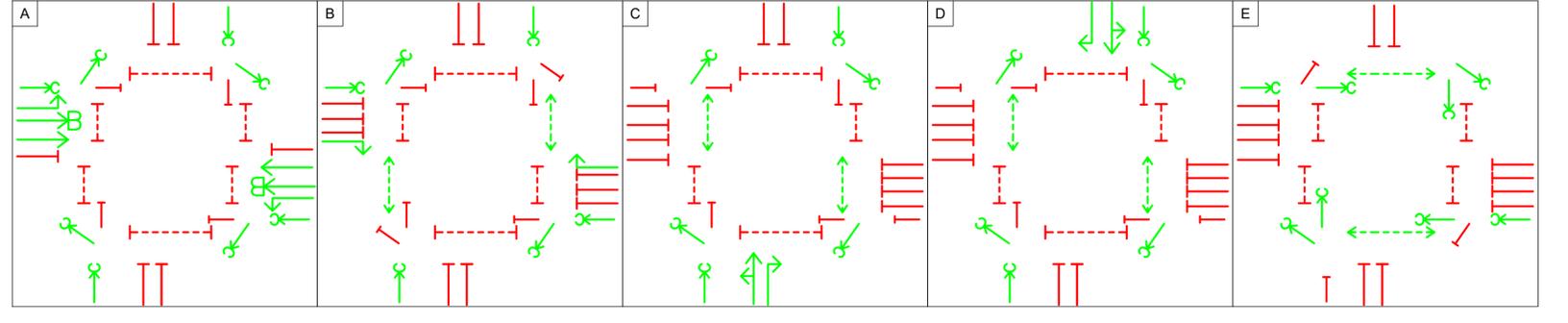
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client

NTA
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer

Jacobs

Date: 06/04/2023 Scale: 1:250 @ A1, 1:500 @ A3

Drawn: FM Checked: IL Approved: HOS

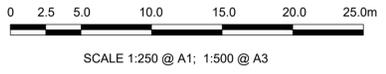
Project Code: BCIDB Originator Code: JAC QMS Code:

Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / AIRSIDE / BOROIMHE ROAD JUNCTION**

Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0002	Sheet Number: 02 of 44	Status: A	Rev: M01
---	------------------------	-----------	----------

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

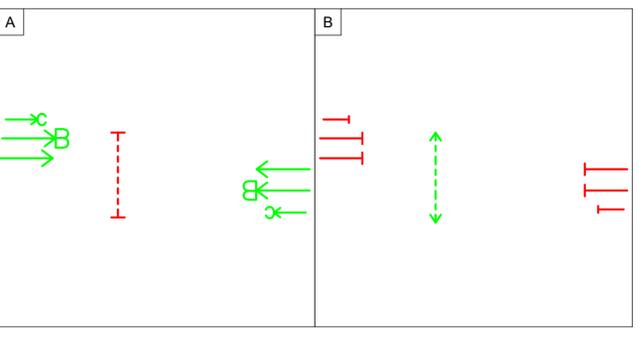
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

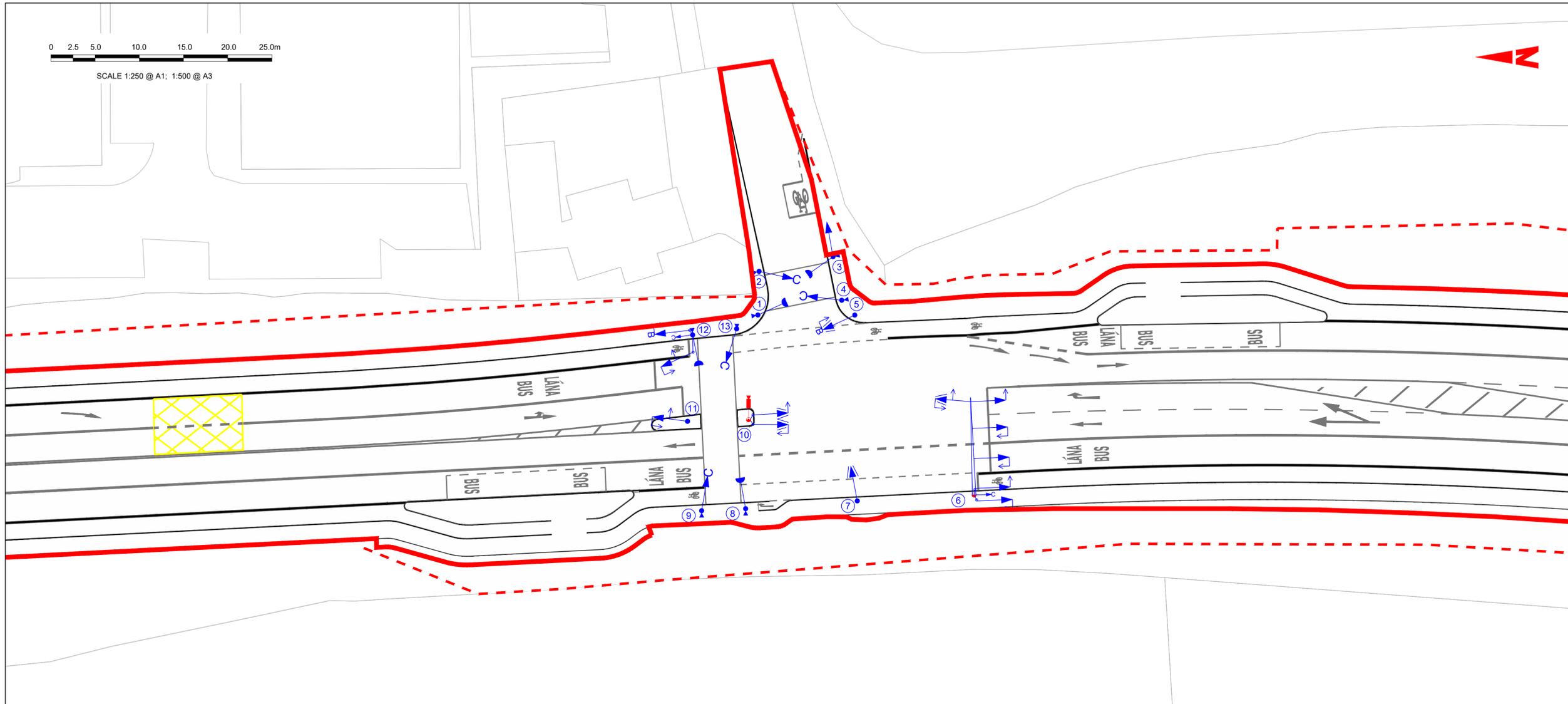
Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / N1 BUSINESS PARK PEDESTRIAN CROSSING			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0003	Sheet Number: 03 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



SCALE 1:250 @ A1; 1:500 @ A3



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

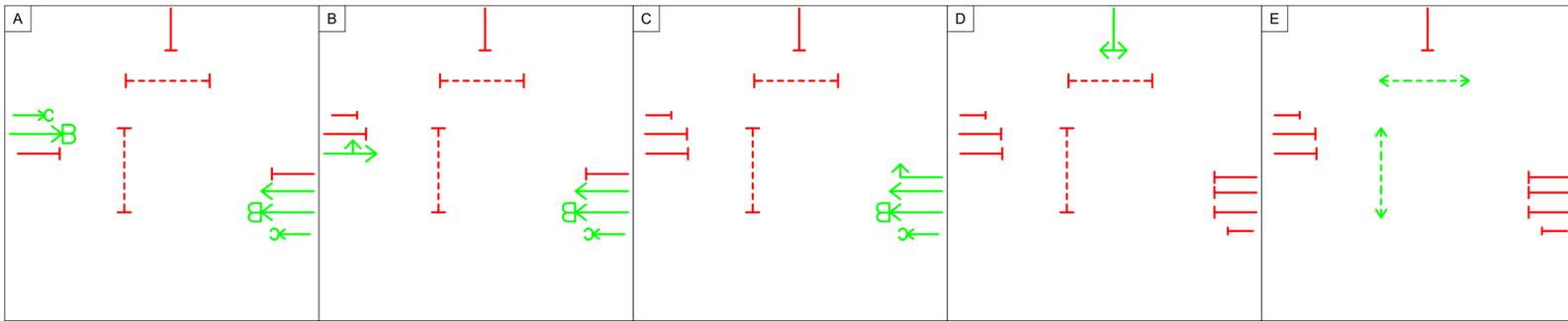
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

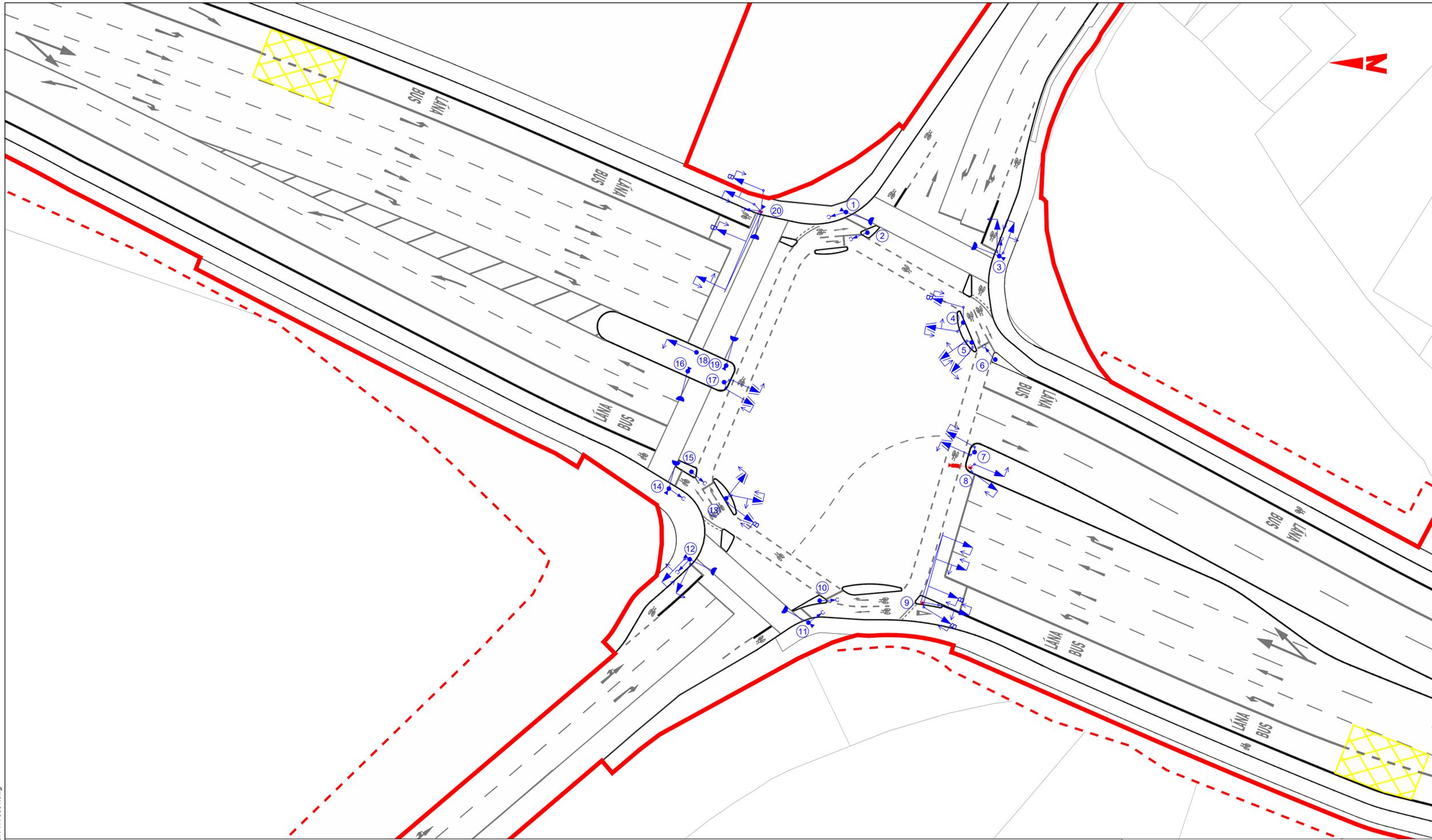
Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / KETTLES LANE PEDESTRIAN CROSSING			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0004	Sheet Number: 04 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

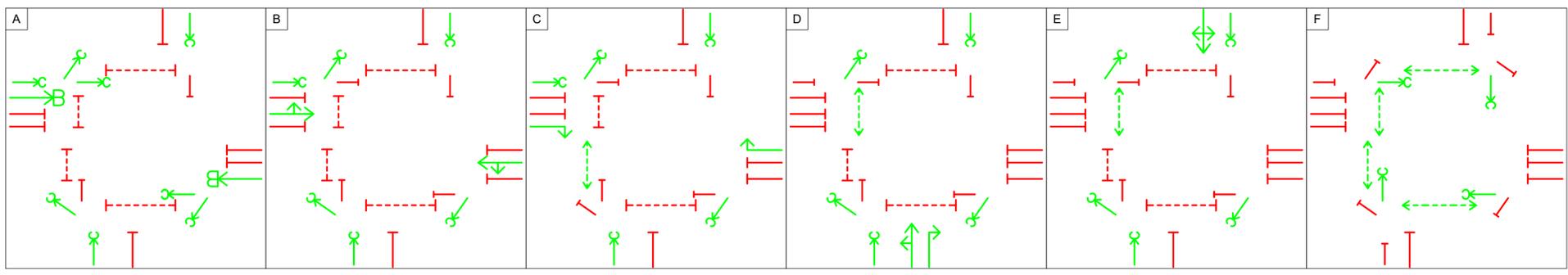
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client

NTA
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer

Jacobs

Date: 06/04/2023
Scale: 1:250 @ A1
1:500 @ A3

Drawn: FM
Checked: IL
Approved: HOS

Project Code: BCIDB
Originator Code: JAC
QMS Code:

Programme Title

BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title

SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME
JUNCTION SYSTEM DESIGN
SWORDS ROAD / NAULL ROAD JUNCTION

Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0005

Sheet Number: 05 of 44

Status: A

Rev: M01

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



SCALE 1:250 @ A1; 1:500 @ A3



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

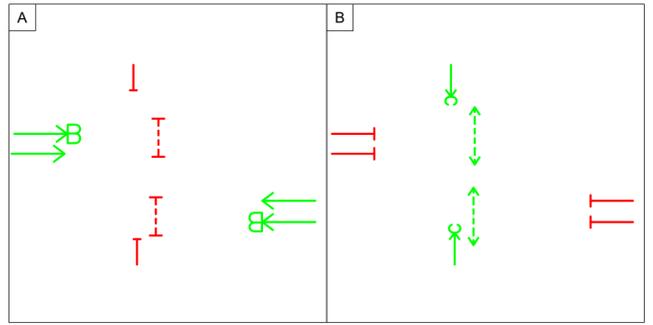
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



C:\pwworking\jacobs_uk_highways_ss4\legint\mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 Scale: 1:250 @ A1, 1:500 @ A3

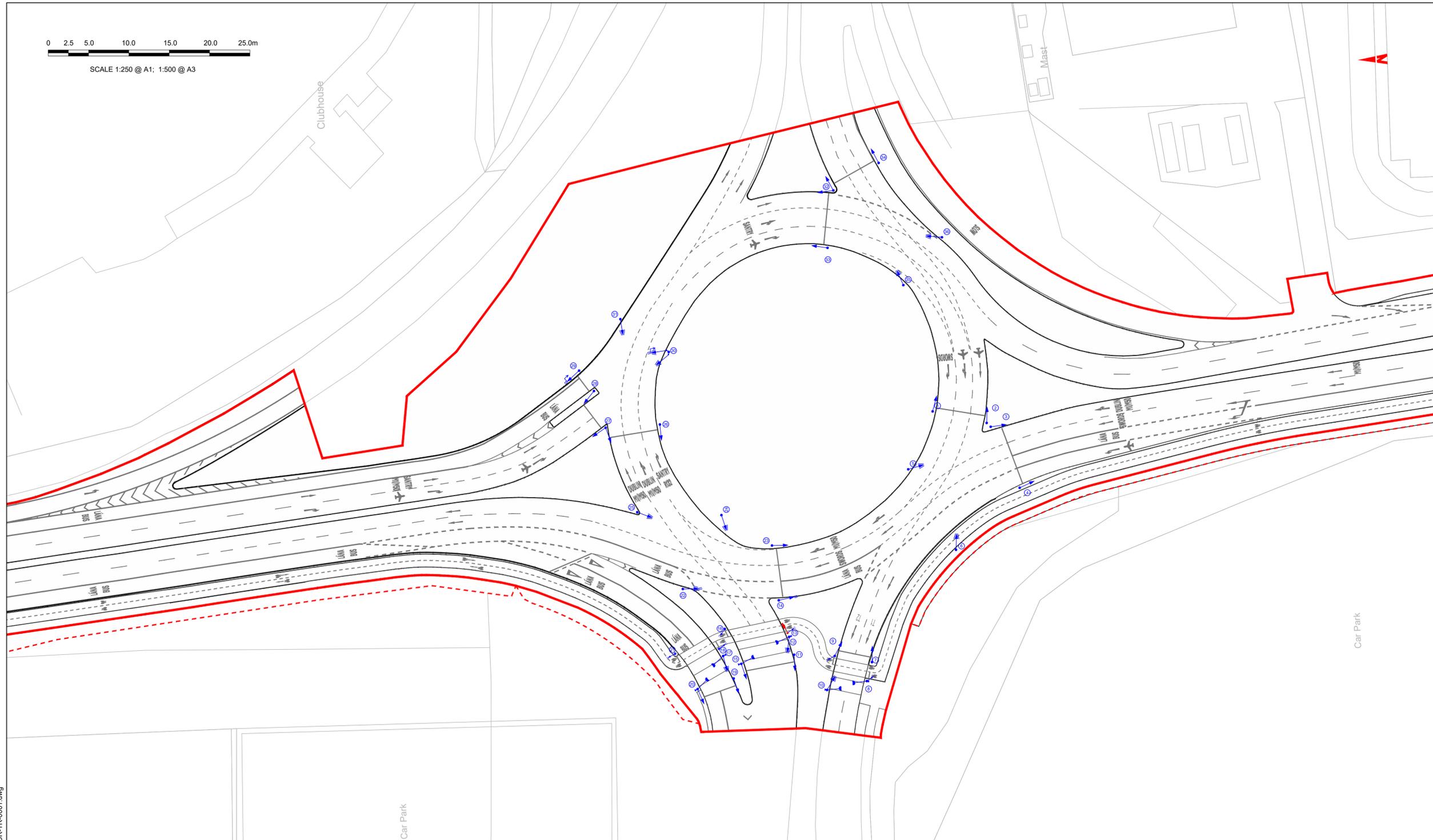
Project Code: BCIDB Originator Code: JAC

Drawn: FM Checked: IL Approved: HOS

QMS Code

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / COACHMANS INN ACCESS PEDESTRIAN CROSSING			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0006	Sheet Number: 06 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

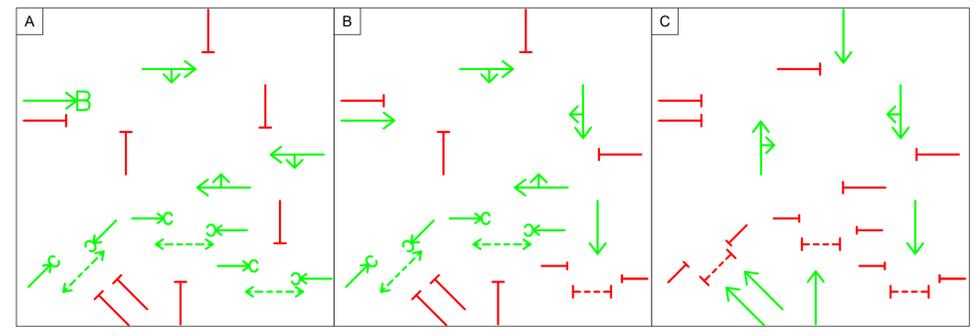
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client

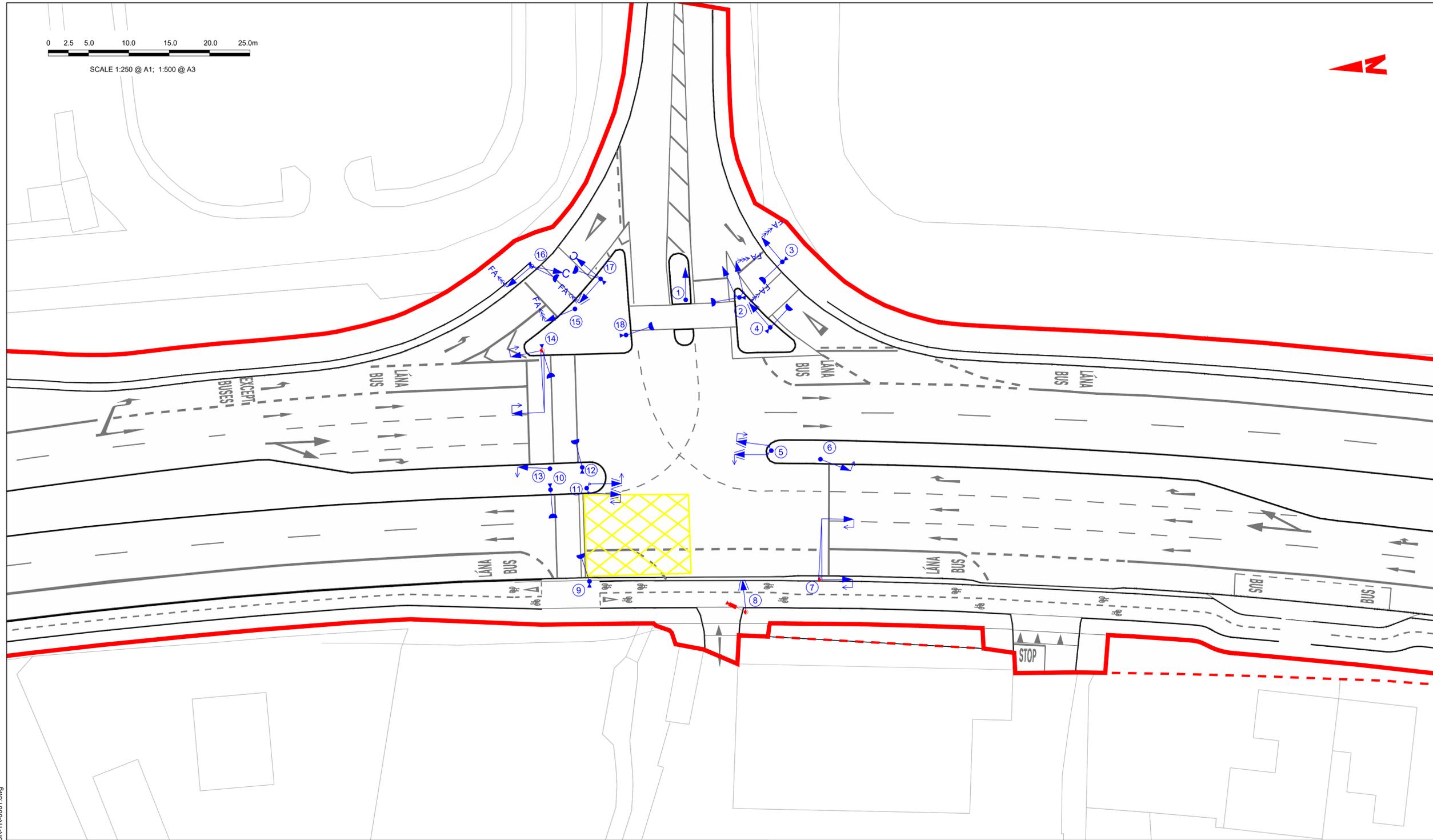
Engineering Designer

Date: 06/04/2023 Scale: 1:500 @ A1, 1:1000 @ A3 Drawn: FM Checked: IL Approved: HOS

Project Code: BCIDB Originator Code: JAC QMS Code:

Programme Title			
BUSCONNECTS DUBLIN			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title			
SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME			
JUNCTION SYSTEM DESIGN			
SWORDS ROAD / AIRPORT ACCESS / M1 LINK JUNCTION			
Drawing File Name	Sheet Number	Status	Rev
BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0007	07 of 44	A	M01

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001: [Symbol]

RTS 002: [Symbol]

RTS 003: [Symbol]

RTS 007: [Symbol]

RPC 004: [Symbol]

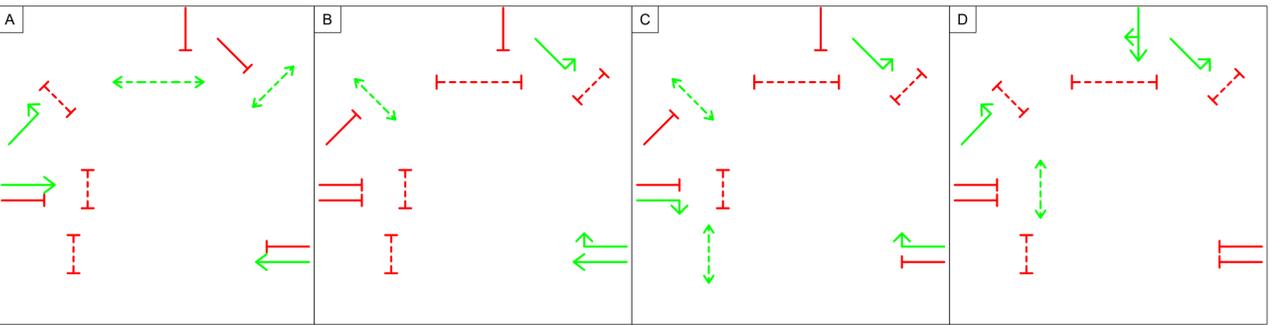
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 Scale: 1:250 @ A1, 1:500 @ A3

Project Code: BCIDB Originator Code: JAC

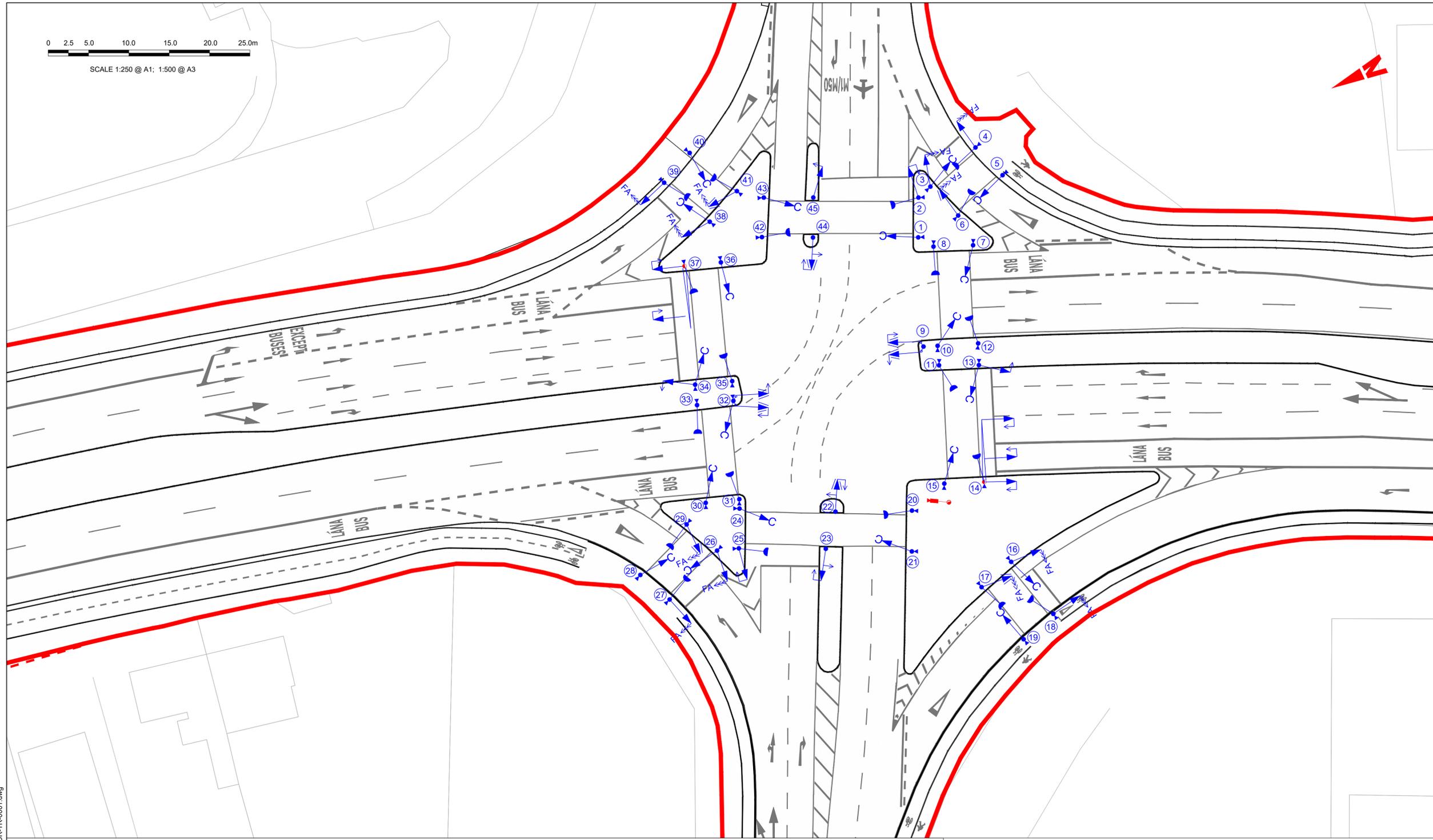
Drawn: FM Checked: IL Approved: HOS

QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / GREEN LONG-TERM CAR PARK / KEALY'S JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0008	Sheet Number: 08 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Symbol]
- RTS 002: [Symbol]
- RTS 003: [Symbol]
- RTS 007: [Symbol]
- RPC 004: [Symbol]

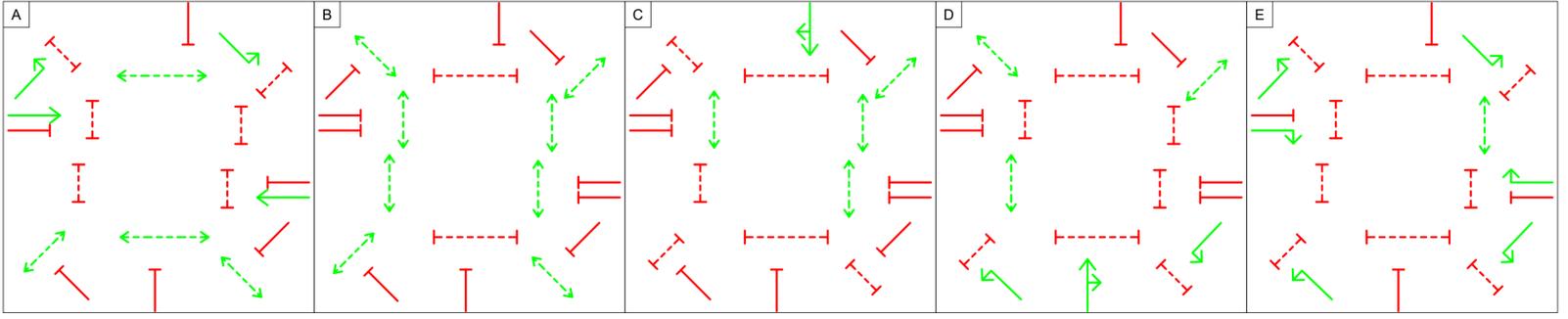
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

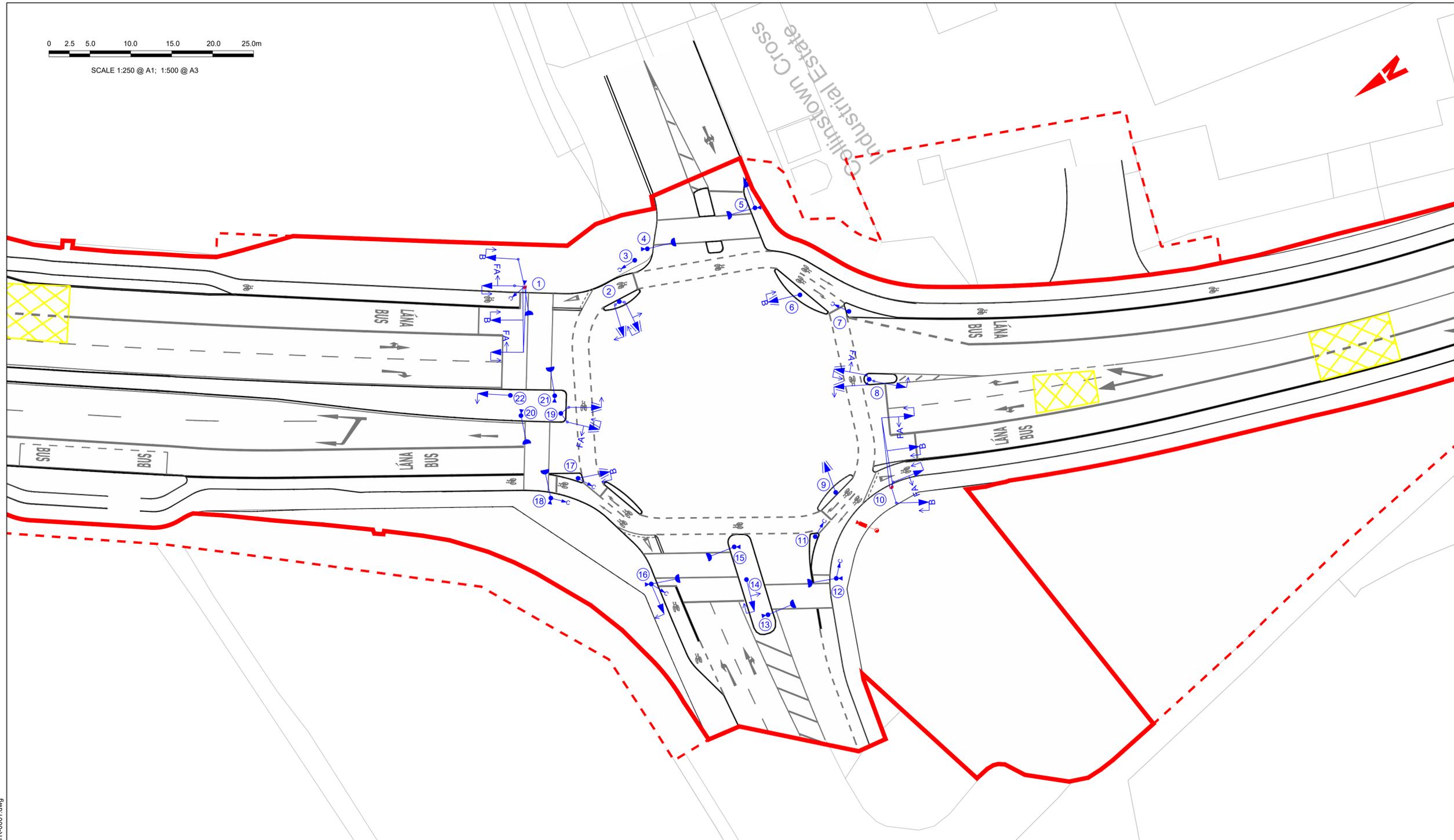
Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0009			
Sheet Number: 09 of 44	Status: A	Rev: M01	

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

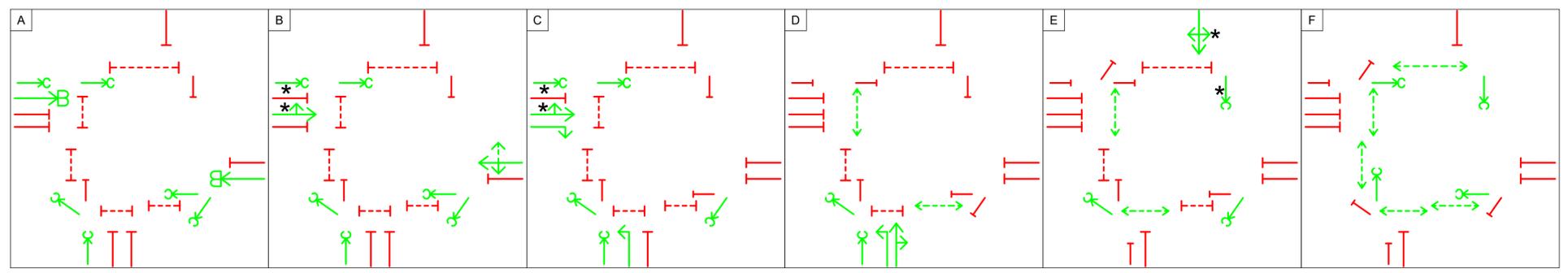
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



* DENOTES FLASHING AMBER

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client

NTA
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer

Jacobs

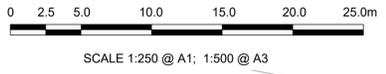
Date: 06/04/2023 Scale: 1:250 @ A1, 1:500 @ A3

Drawn: FM, Checked: IL, Approved: HOS

Project Code: BCIDB, Originator Code: JAC, QMS Code:

Programme Title			
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title			
SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / OLD AIRPORT ROAD/ COLLINSTOWN AVENUE JUNCTION			
Drawing File Name	Sheet Number	Status	Rev
BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0010	10 of 44	A	M01

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullian\01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

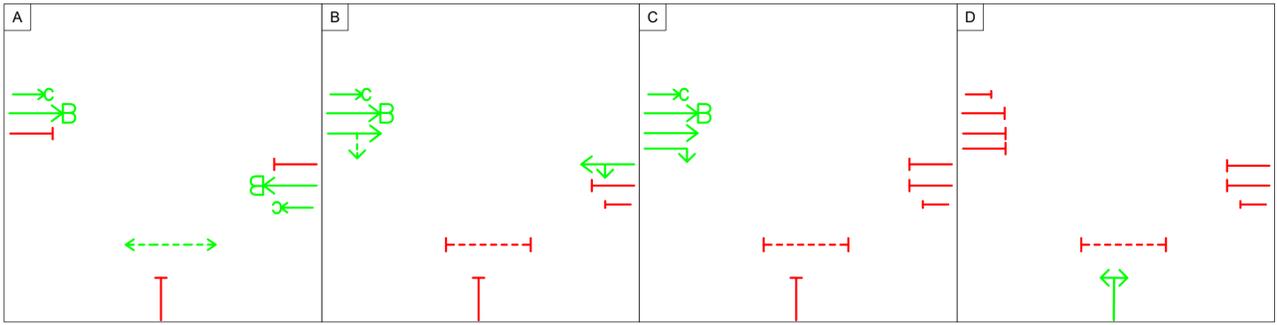
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 Scale: 1:250 @ A1, 1:500 @ A3

Project Code: BCIDB Originator Code: JAC

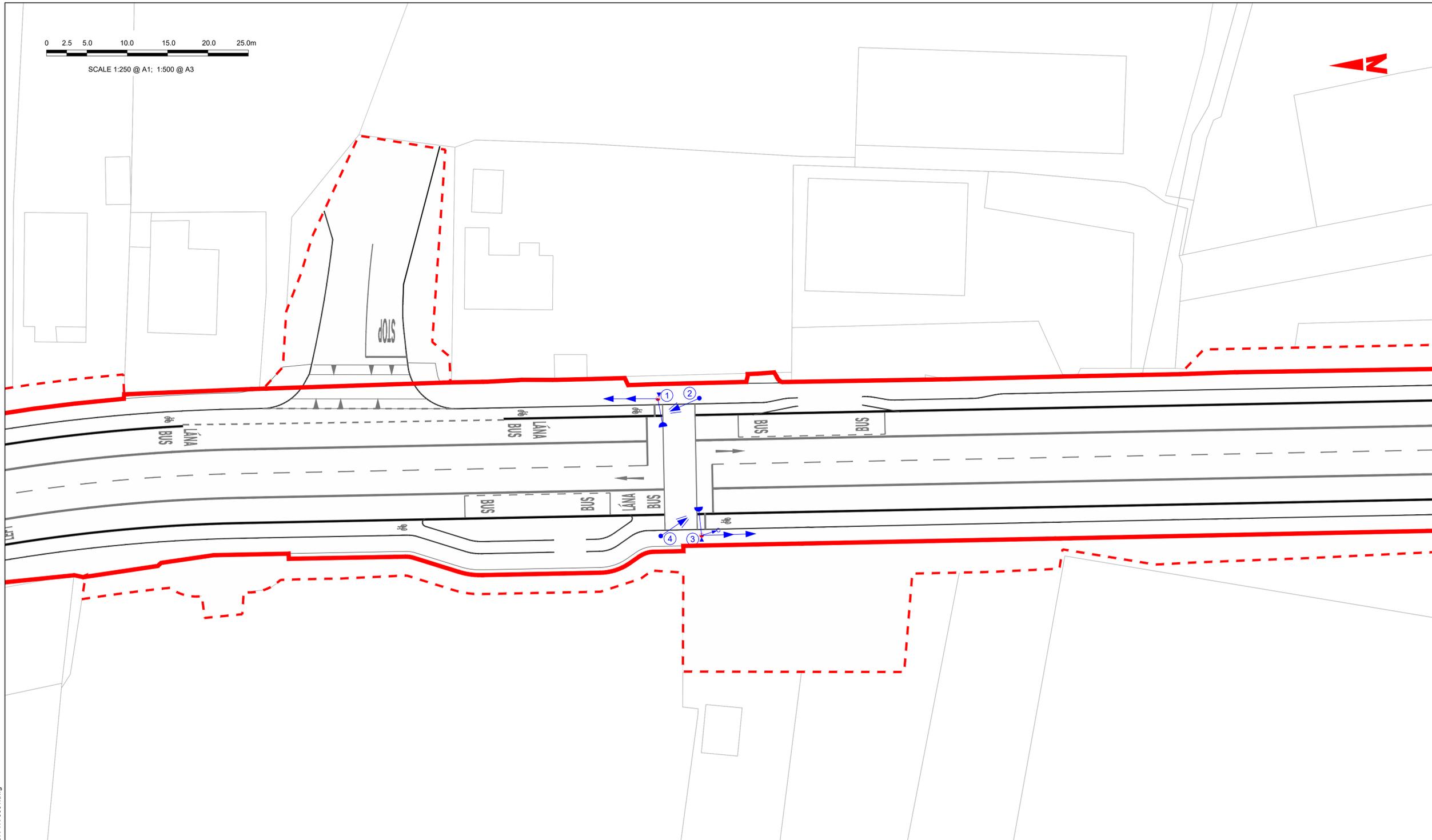
Drawn: FM Checked: IL Approved: HOS

QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / QUICK PARK CAR PARK JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0011	Sheet Number: 11 of 44	Status: A	Rev: M01

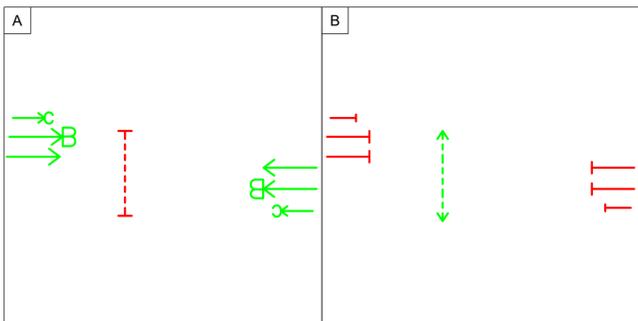
DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001: [Signal head symbol]
 - RTS 002: [Signal head symbols]
 - RTS 003: [Signal head symbols]
 - RTS 007: [Signal head symbol]
 - RPC 004: [Signal head symbol]
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - ⊗ POLE NUMBER
 - ⊕ PUSH BUTTON UNIT
 - CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

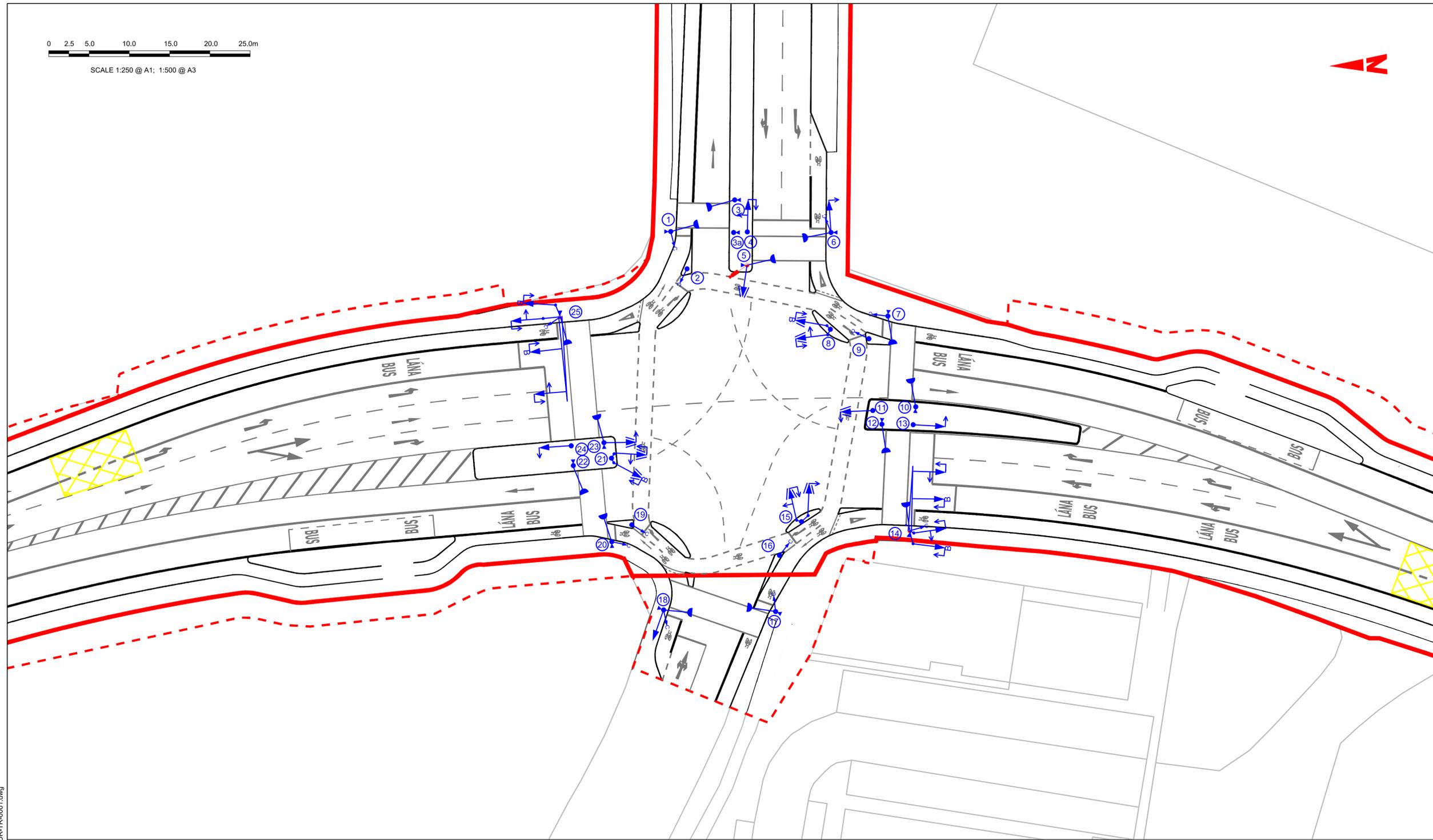
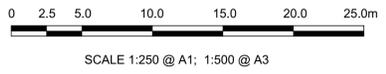
Date	Scale	Drawn	Checked	Approved
06/04/2023	1:250 @ A1 1:500 @ A3	FM	IL	HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / ROYAL COLLEGE OF SURGEONS GROUND PEDESTRIAN CROSSING			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0012	Sheet Number: 12 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001: [Symbol]

RTS 002: [Symbol]

RTS 003: [Symbol]

RTS 007: [Symbol]

RPC 004: [Symbol]

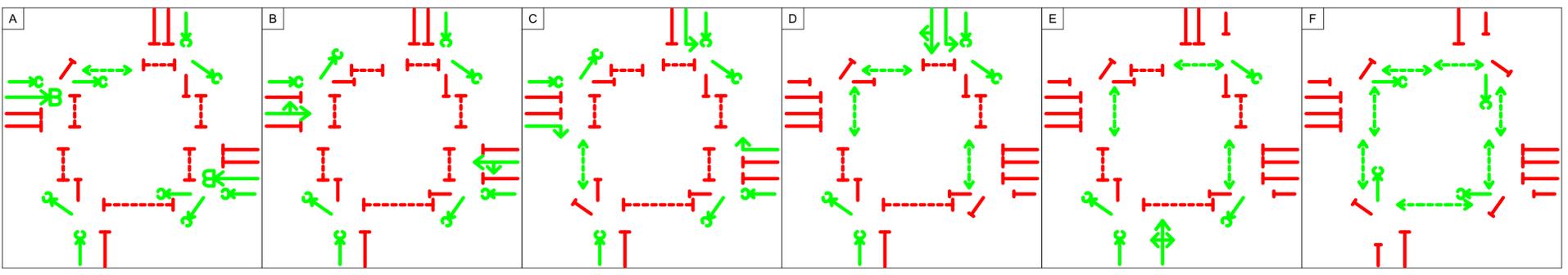
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OS_NMA_180 National Transport Authority. All elevations are in metres and relate to OSi Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

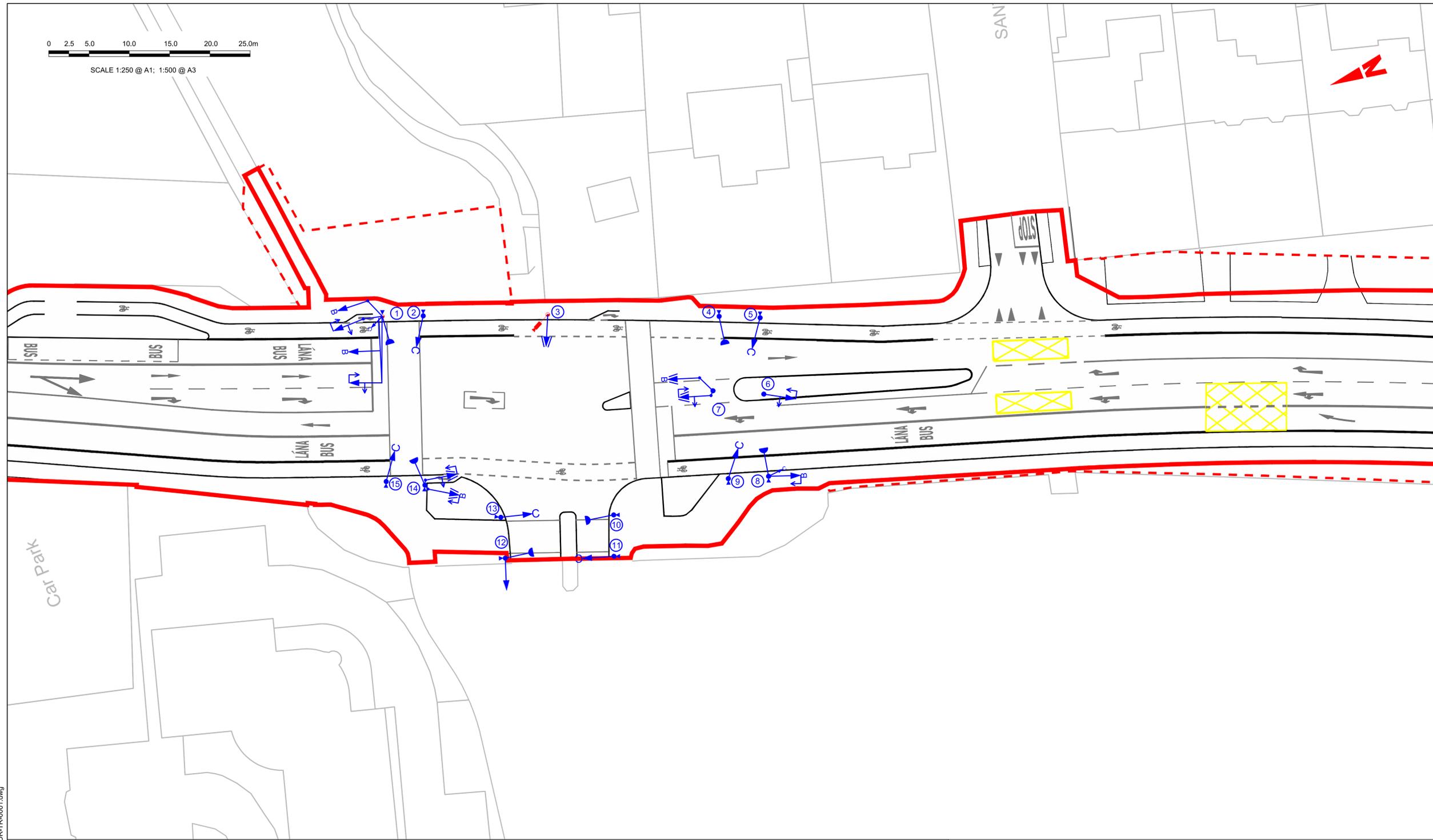
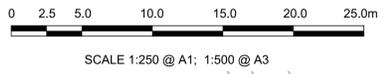
Programme Title: **BUSCONNECTS DUBLIN**
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title: **SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME**
JUNCTION SYSTEM DESIGN
SWORDS ROAD / TURNAPIN LANE JUNCTION

Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0013 | Sheet Number: 13 of 44 | Status: A | Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-001.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Signal head symbols]
- RTS 002: [Signal head symbols]
- RTS 003: [Signal head symbols]
- RTS 007: [Signal head symbols]
- RPC 004: [Signal head symbols]

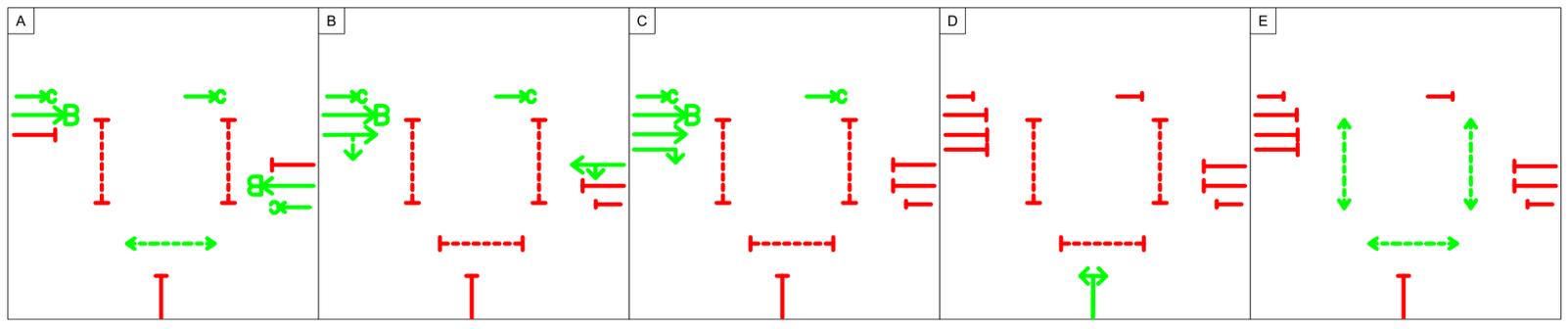
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊙ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0001.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OS_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3

Project Code: BCIDB | Originator Code: JAC

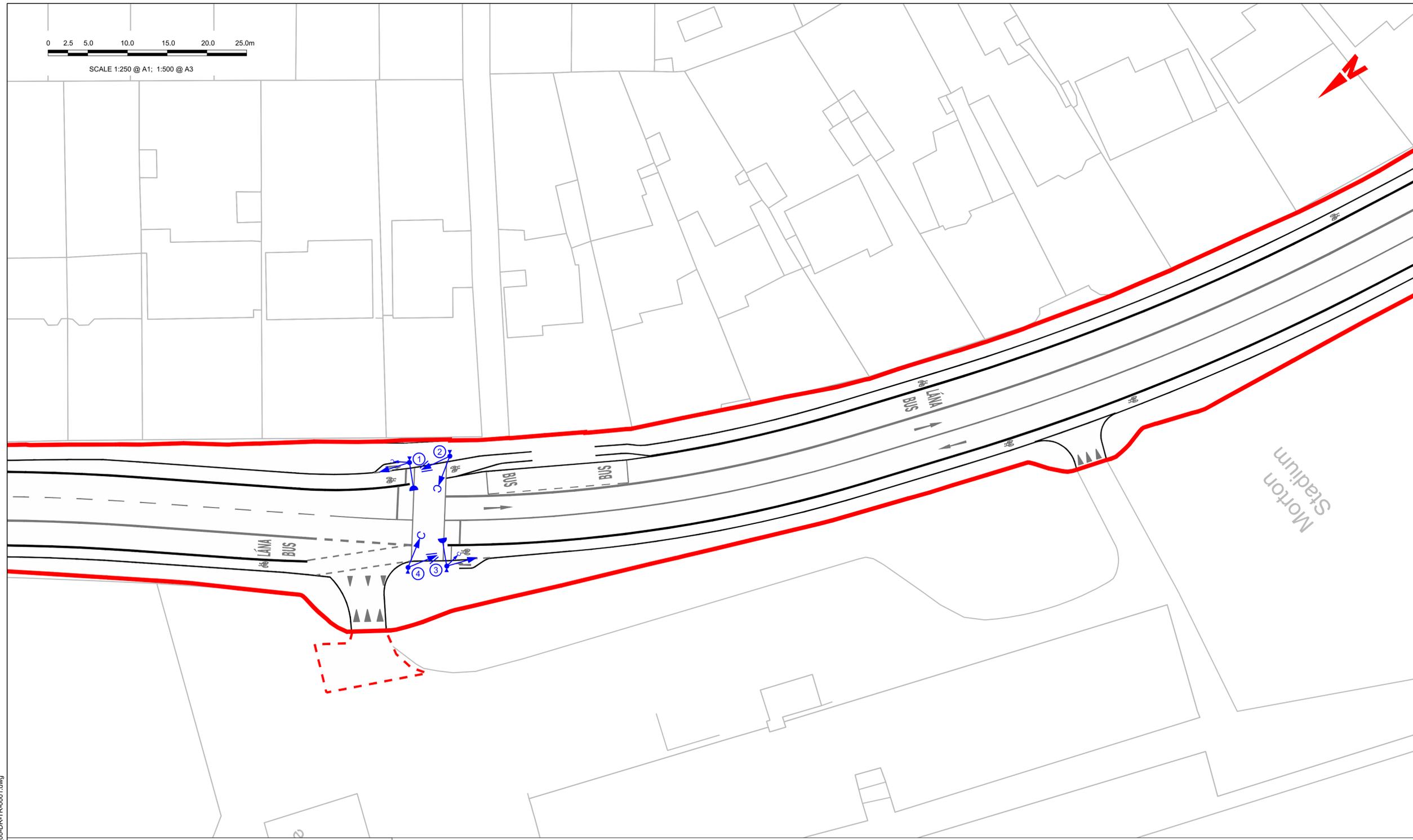
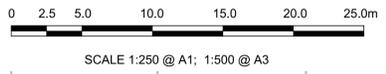
Drawn: FM | Checked: IL | Approved: HOS

Programme Title: **BUSCONNECTS DUBLIN**
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title: **SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME**
JUNCTION SYSTEM DESIGN
SWORDS ROAD / NORTHWOOD AVENUE JUNCTION

Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0014 | Sheet Number: 14 of 44 | Status: A | Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

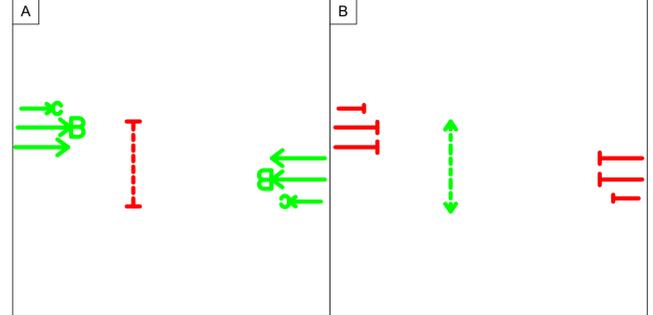
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-001.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OS_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3

Project Code: BCIDB | Originator Code: JAC

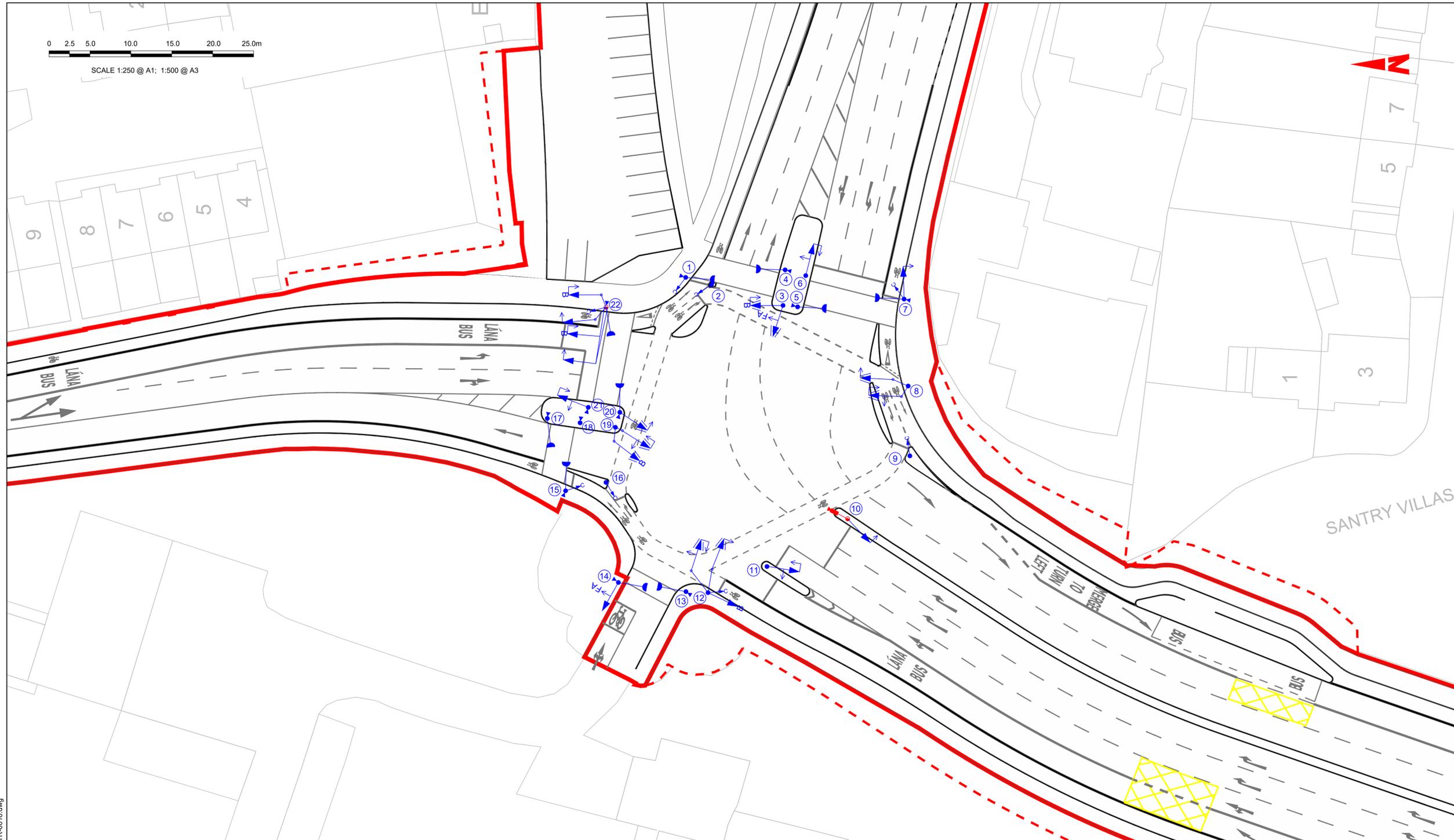
Drawn: FM | Checked: IL | Approved: HOS

Programme Title: **BUSCONNECTS DUBLIN**
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title: **SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME**
JUNCTION SYSTEM DESIGN
SWORDS ROAD / MORTON STADIUM PEDESTRIAN CROSSING

Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0015 | Sheet Number: 15 of 44 | Status: A | Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

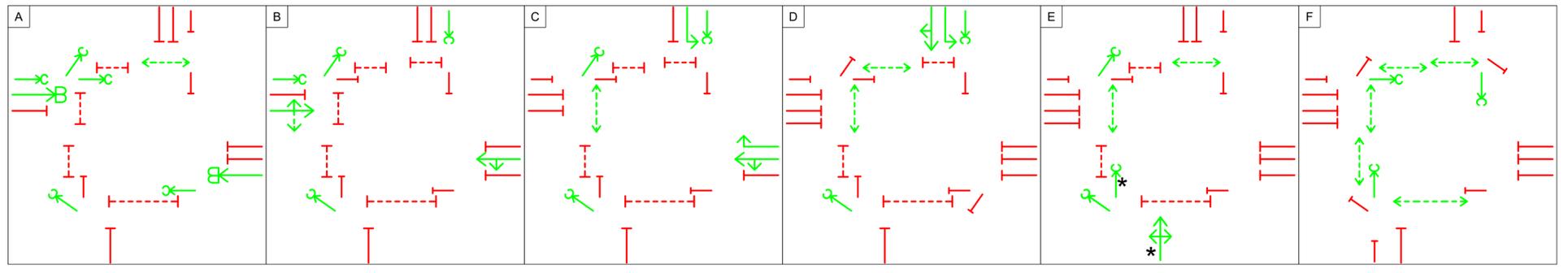
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



* DENOTES FLASHING AMBER

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullankid0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the title block. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 Scale: 1:250 @ A1, 1:500 @ A3

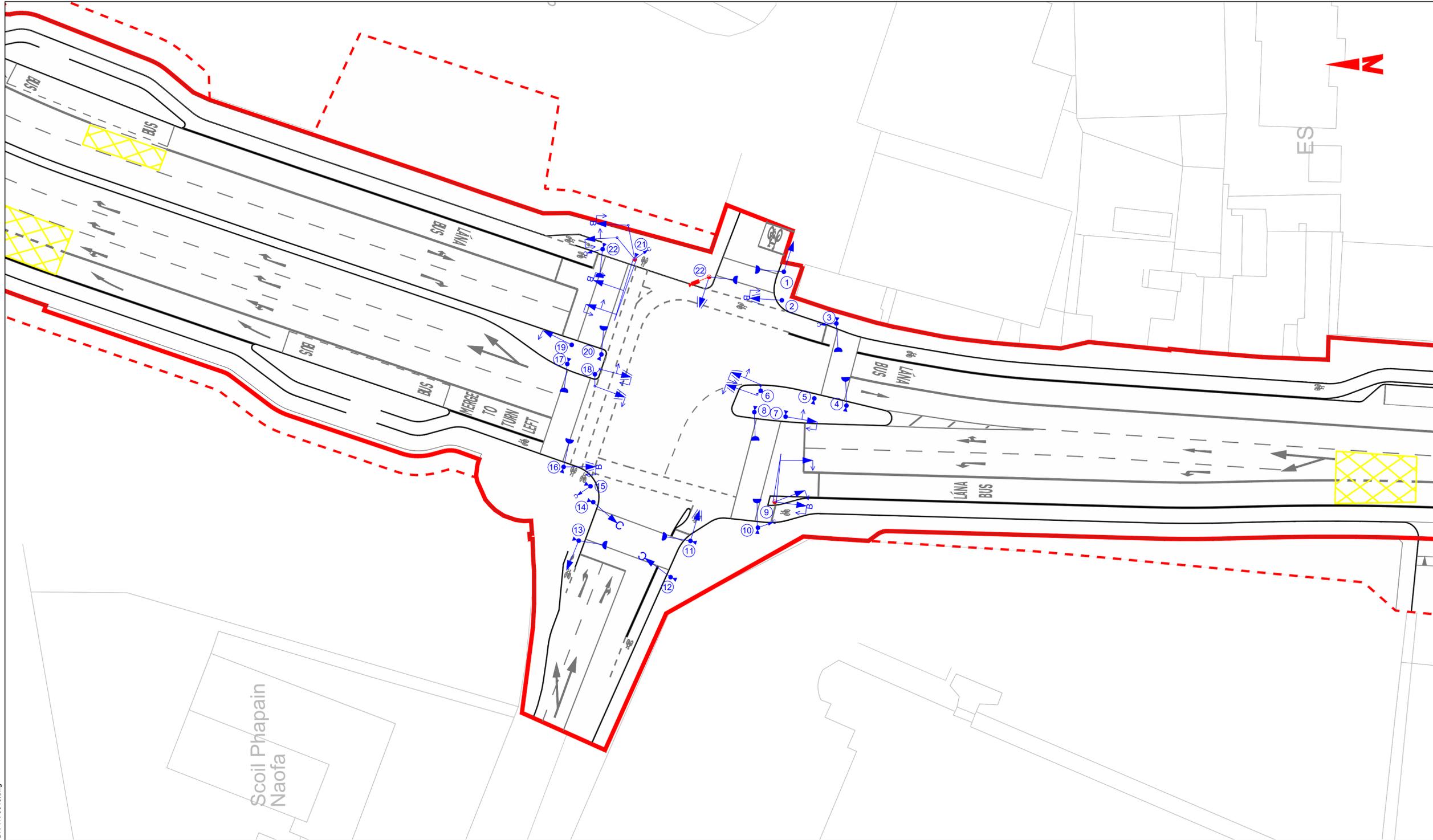
Project Code: BCIDB Originator Code: JAC

Drawn: FM Checked: IL Approved: HOS

QMS Code:

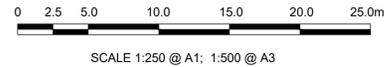
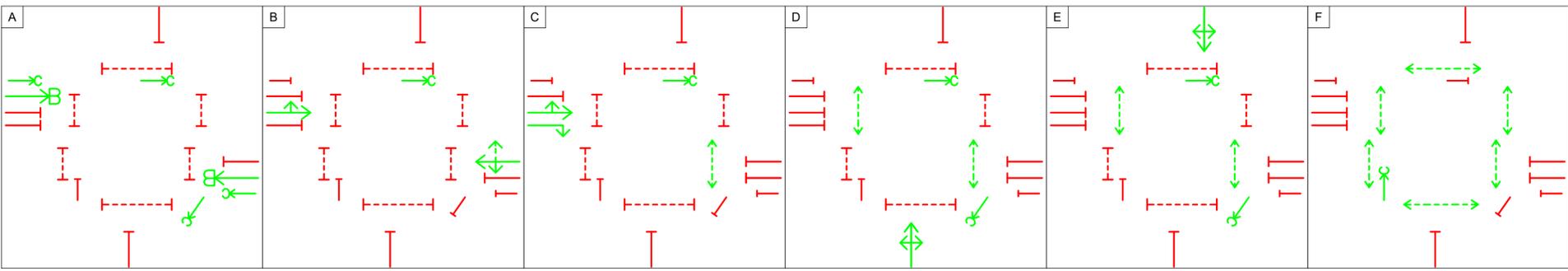
Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / COOLLOCK LANE JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016	Sheet Number: 16 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001: [Symbol]
 - RTS 002: [Symbol]
 - RTS 003: [Symbol]
 - RTS 007: [Symbol]
 - RPC 004: [Symbol]
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this information. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

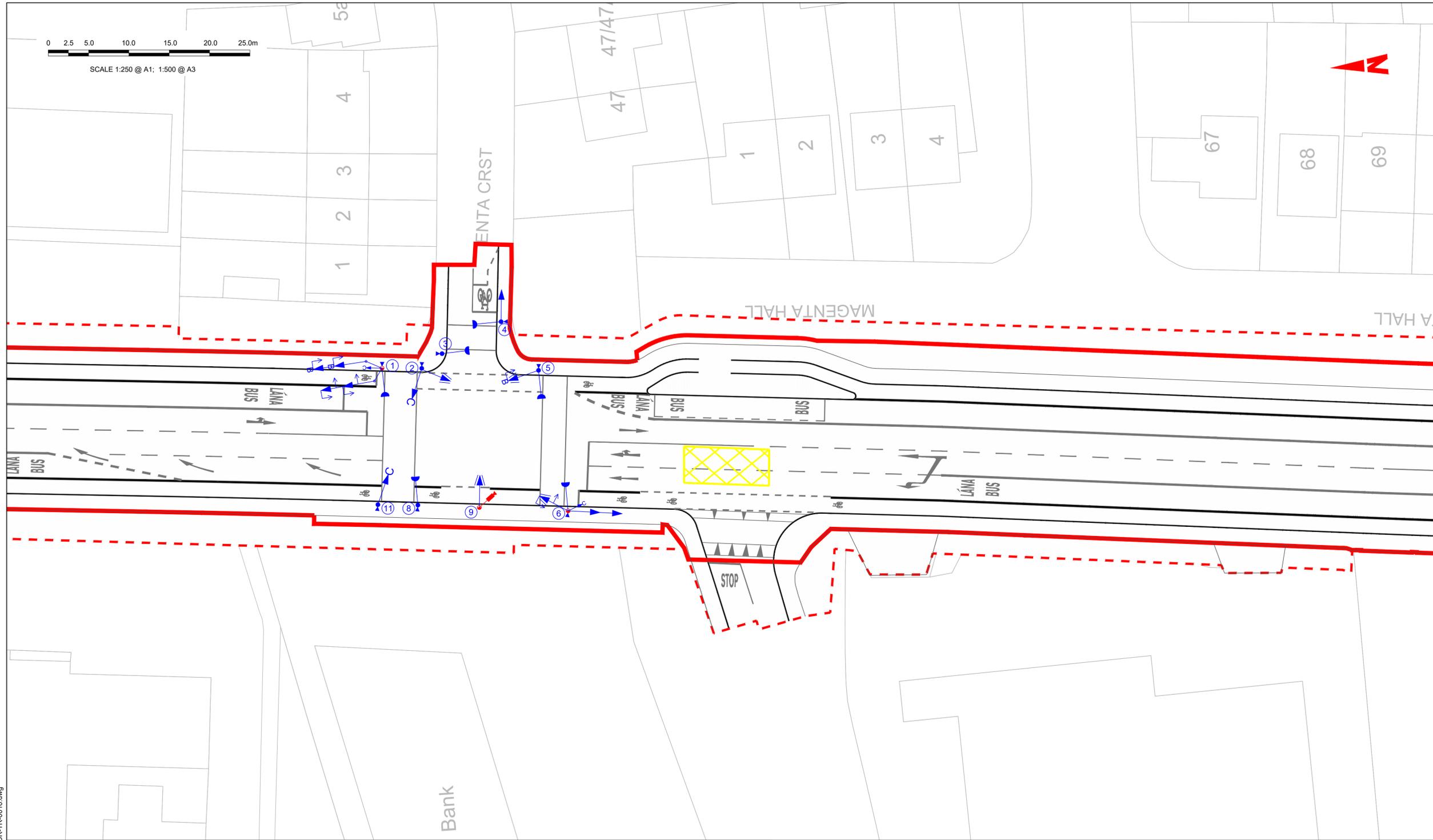
Client

Engineering Designer

Programme Title		BUSCONNECTS DUBLIN		
		CORE BUS CORRIDORS INFRASTRUCTURE WORKS		
Drawing Title		SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEM DESIGN		
		SWORDS ROAD / SANTRY AVENUE JUNCTION		
Drawing File Name	Sheet Number	Status	Rev	
BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0017	17 of 44	A	M01	

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

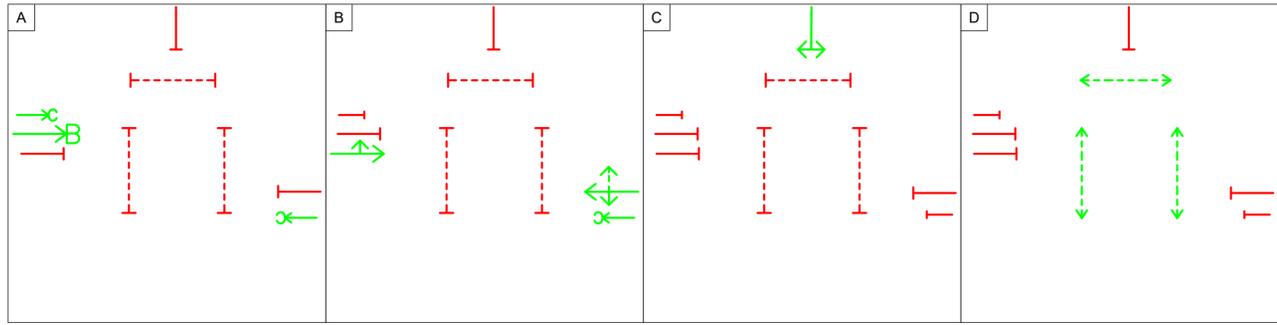
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

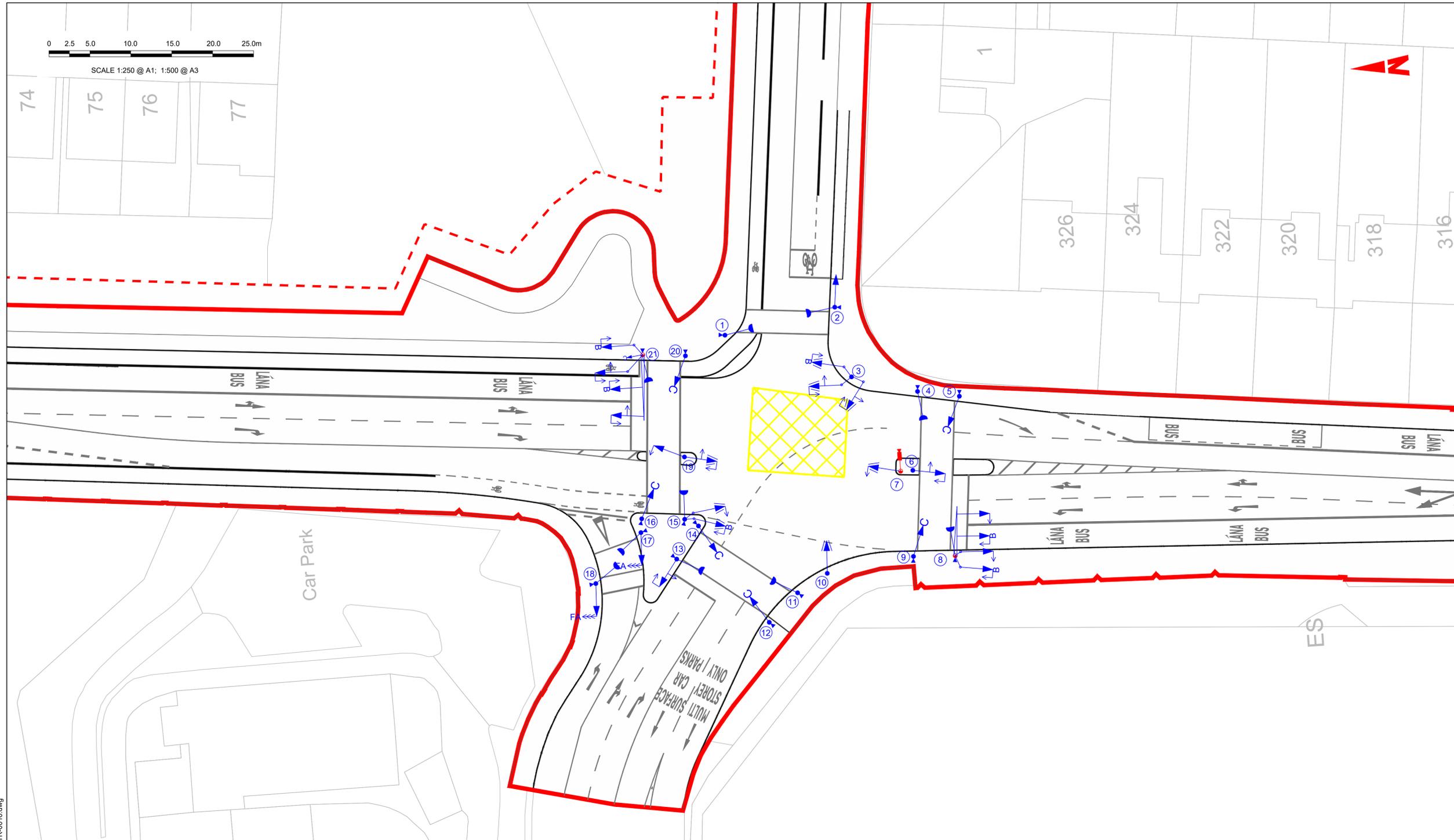
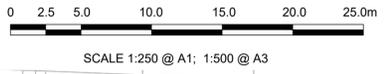
Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / MAGENTA CRESENT PEDESTRIAN CROSSING			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0018	Sheet Number: 18 of 44	Status: A	Rev: M01

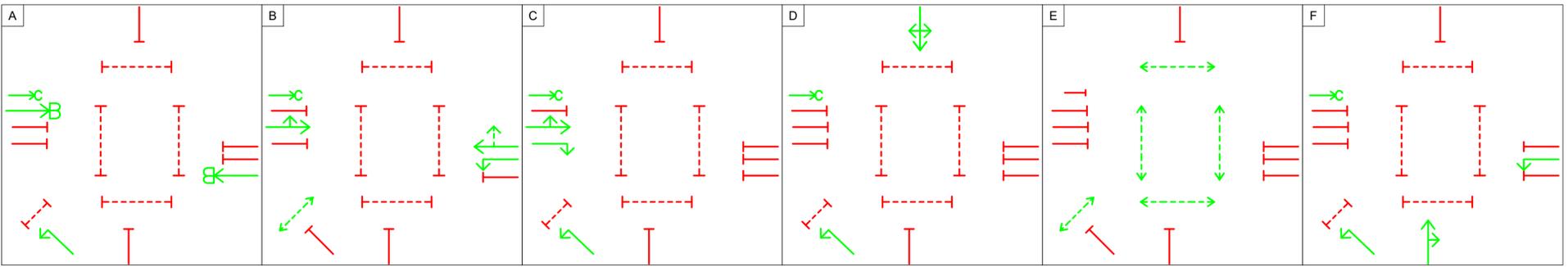
DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001: [Symbol]
 - RTS 002: [Symbol]
 - RTS 003: [Symbol]
 - RTS 007: [Symbol]
 - RPC 004: [Symbol]
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - ⊗ POLE NUMBER
 - ⊕ PUSH BUTTON UNIT
 - CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this information. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

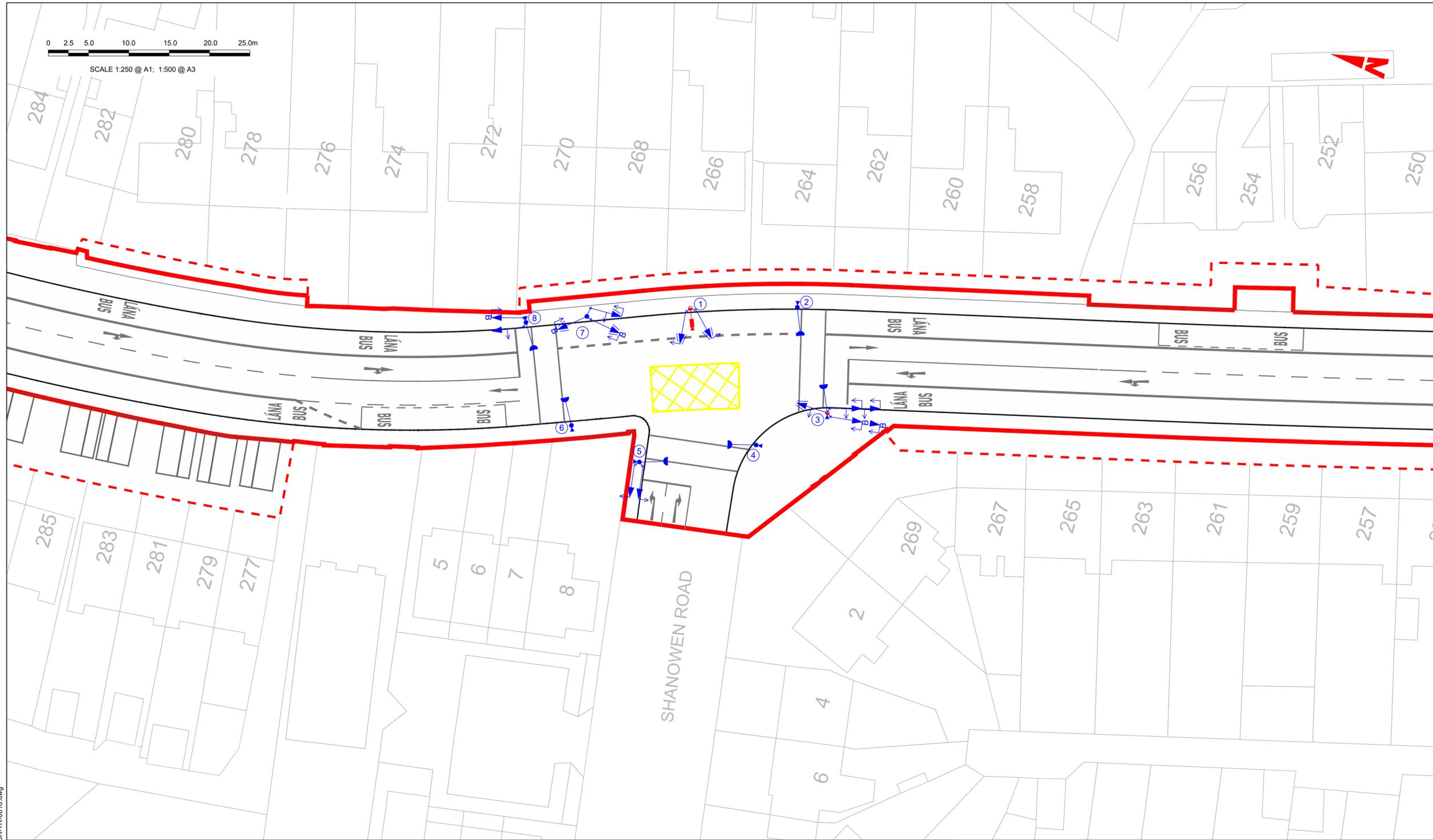
Engineering Designer: **Jacobs**

Date: 06/04/2023 Scale: 1:250 @ A1, 1:500 @ A3
Drawn: FM, Checked: IL, Approved: HOS

Project Code: BCIDB, Originator Code: JAC, QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / OMNI PARK / LORCAN ROAD JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0019	Sheet Number: 19 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Symbol]
- RTS 002: [Symbol]
- RTS 003: [Symbol]
- RTS 007: [Symbol]
- RPC 004: [Symbol]

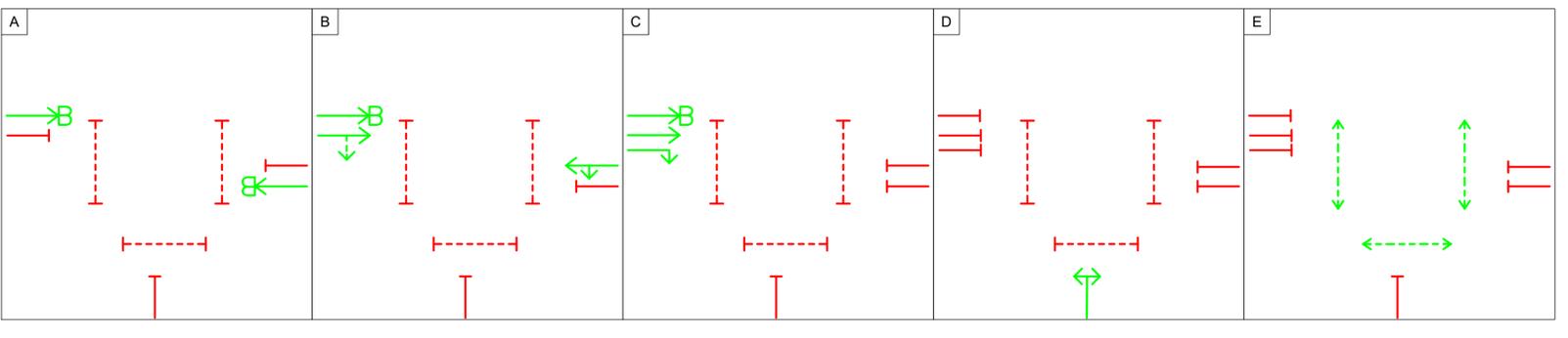
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊙ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

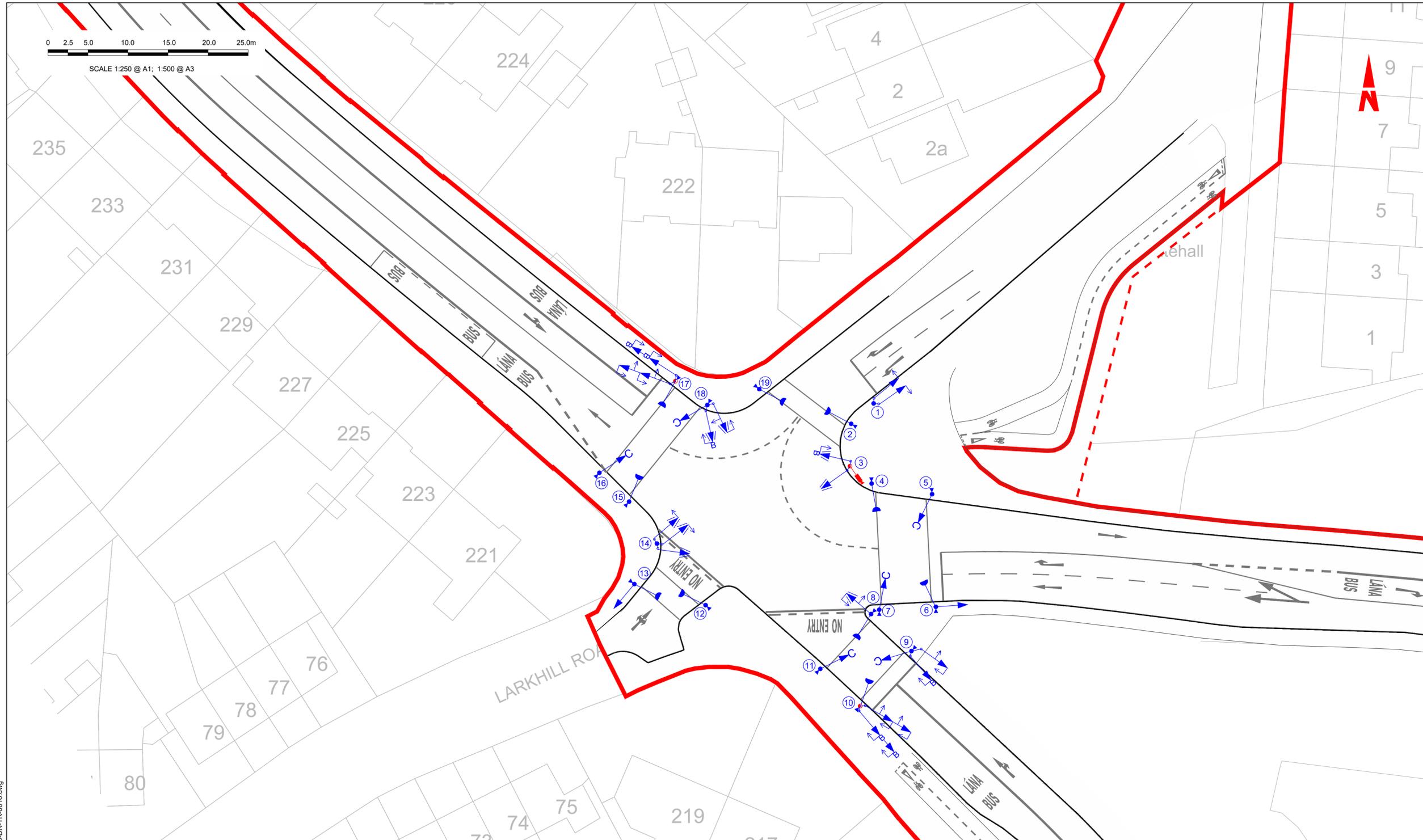
Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / SHANOWEN ROAD JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0020	Sheet Number: 20 of 44	Status: A	Rev: M01

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg



SCALE 1:250 @ A1; 1:500 @ A3



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

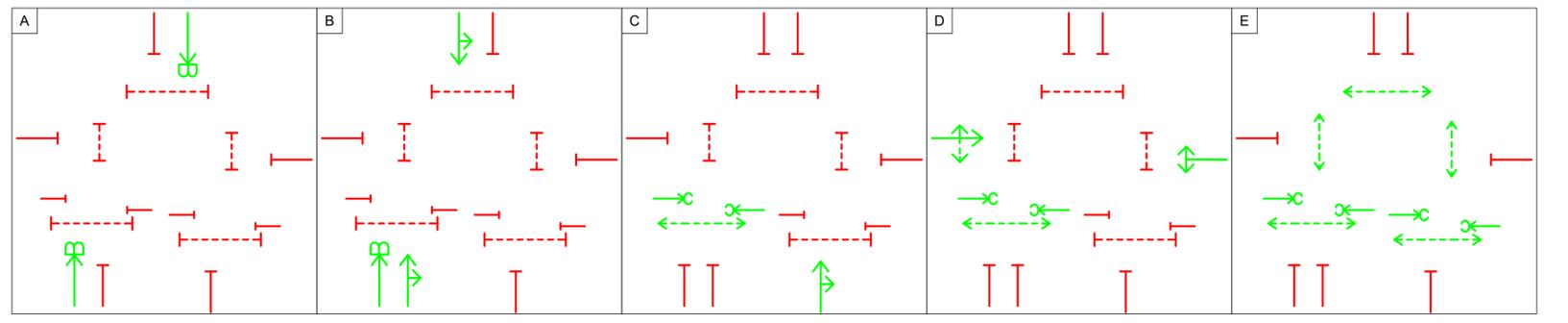
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udaráis Náisiúnta Iompair
National Transport Authority

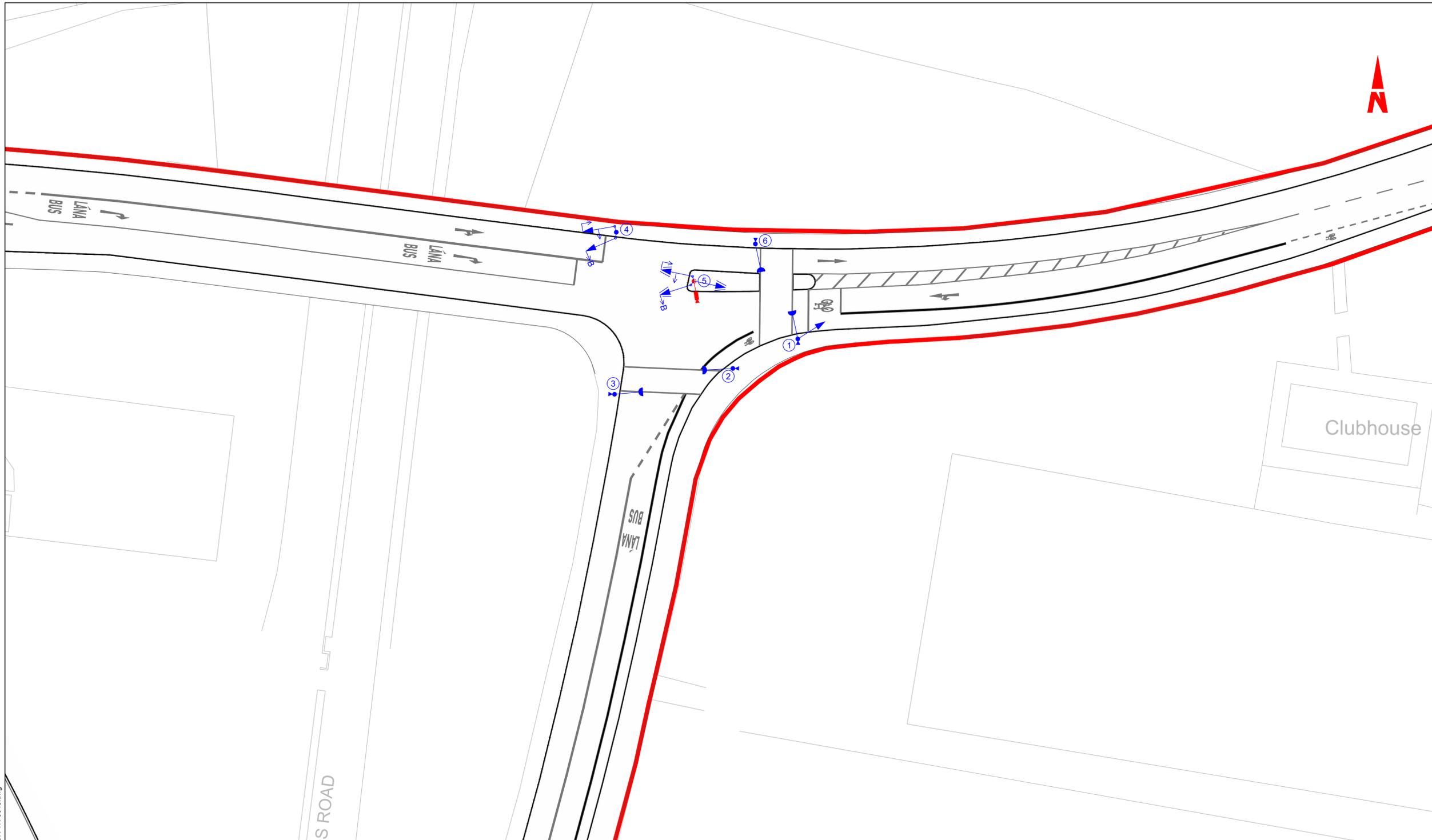
Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / SHANRATH JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0021	Sheet Number: 21 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

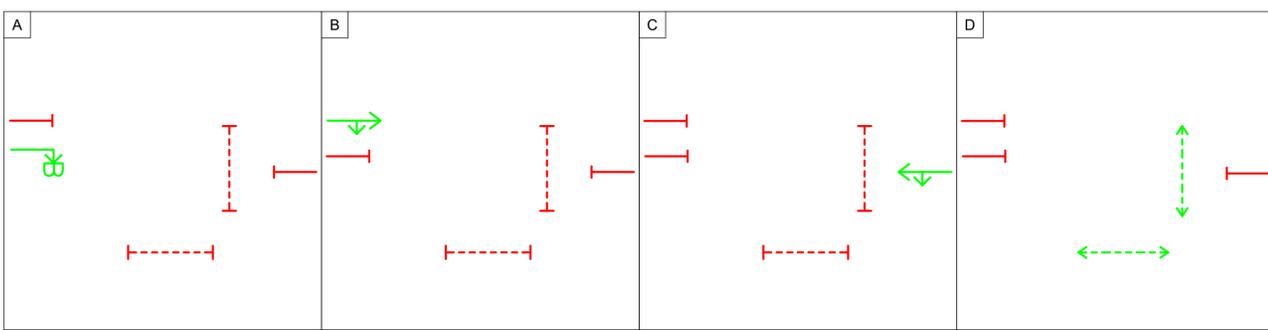
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

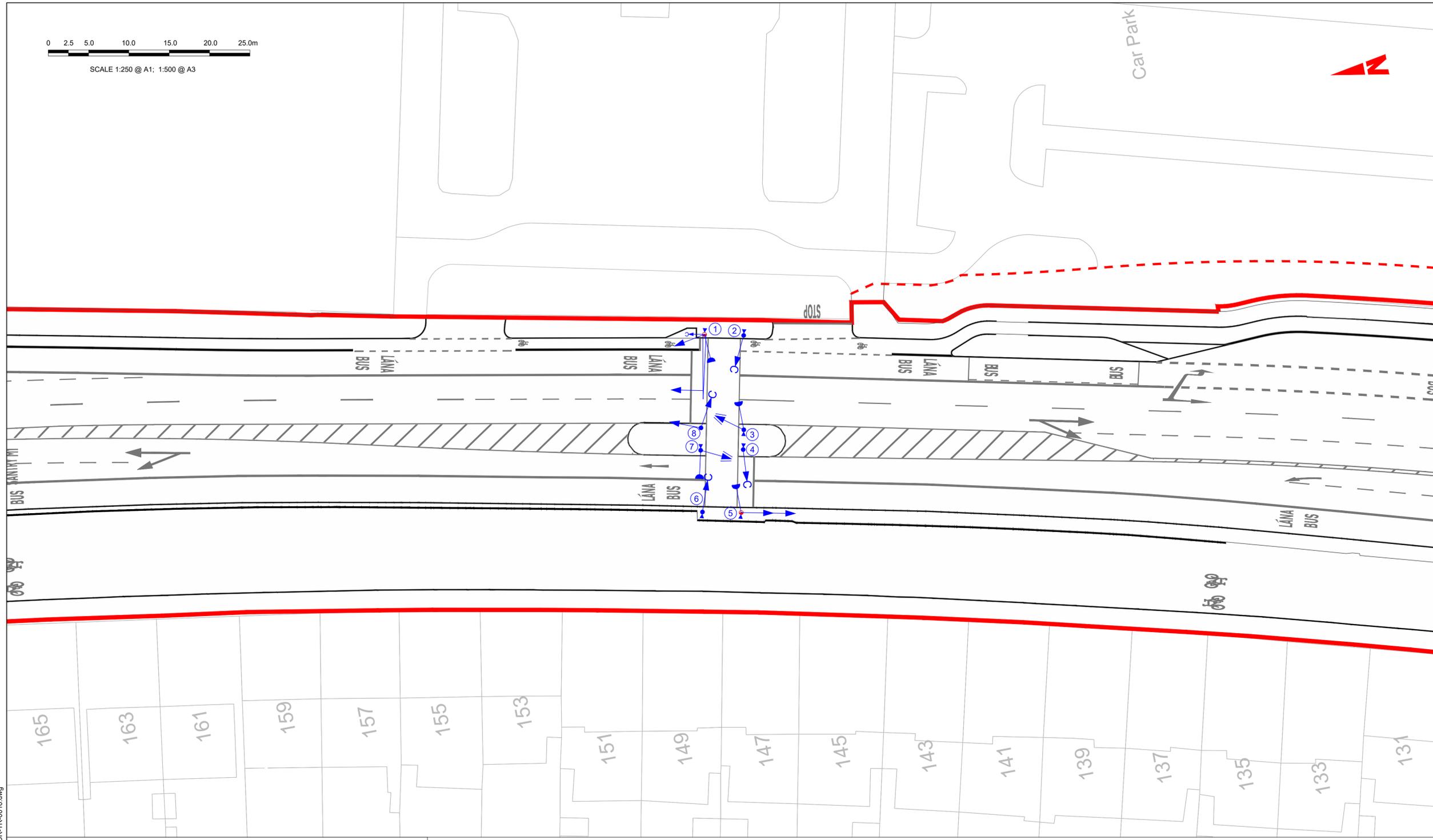
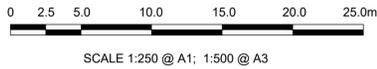
Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Date	06/04/2023	Scale	1:250 @ A1 1:500 @ A3	Drawn	FM
Project Code	BCIDB	Originator Code	JAC	Checked	IL
				Approved	HOS

Client Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer Jacobs		
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS		Drawing Title SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / SHANTALLA ROAD JUNCTION		
Drawing File Name BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0022		Sheet Number 22 of 44	Status A	Rev M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

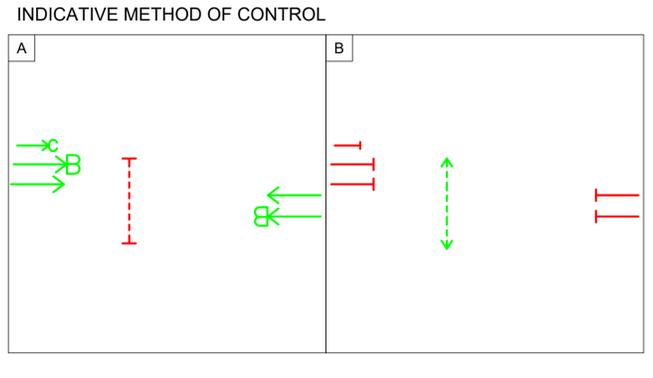
- RTS 001: [Symbol]
- RTS 002: [Symbol]
- RTS 003: [Symbol]
- RTS 007: [Symbol]
- RPC 004: [Symbol]

TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

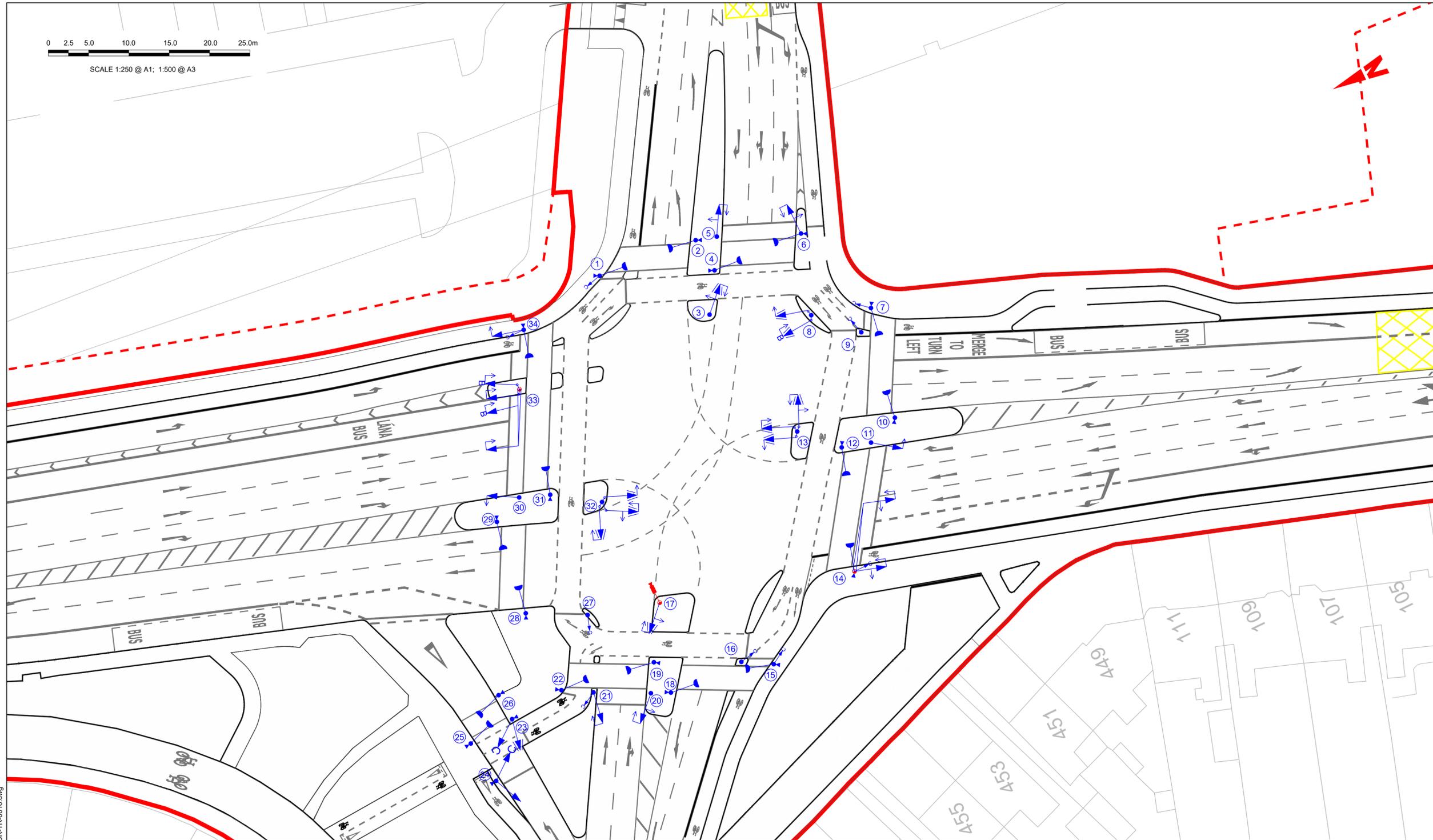
Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / HOLY CHILD CHURCH PEDESTRIAN CROSSING**

Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0023 | Sheet Number: 23 of 44 | Status: A | Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

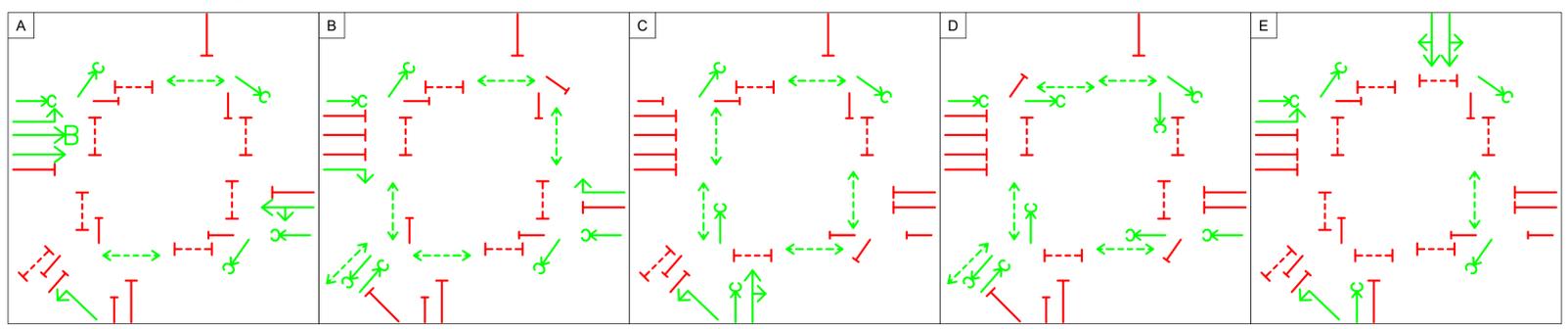
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client

NTA
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer

Jacobs

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title				BUSCONNECTS DUBLIN			
				CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title				SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME			
				JUNCTION SYSTEM DESIGN			
				SWORDS ROAD / COLLINS AVENUE JUNCTION			
Drawing File Name		Sheet Number		Status		Rev	
BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0024		24 of 44		A		M01	

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

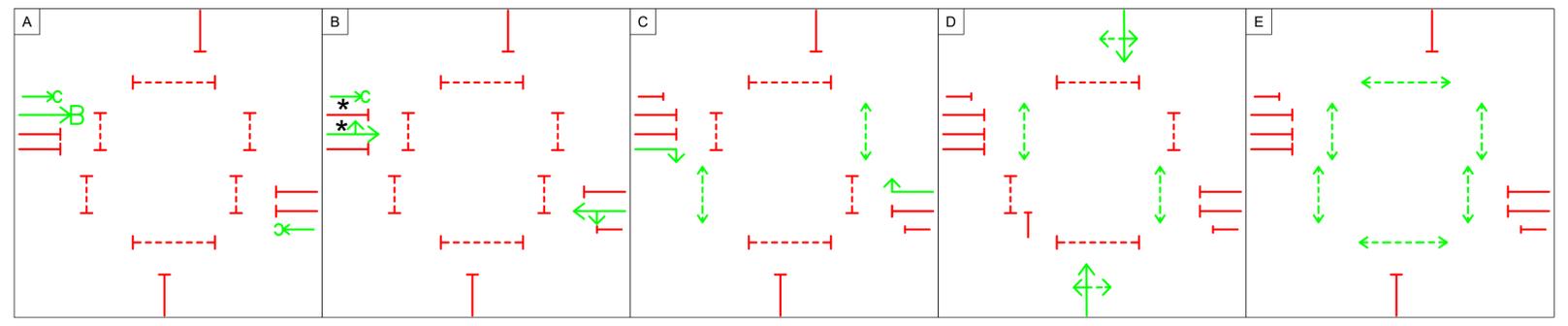
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



* DENOTES FLASHING AMBER

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

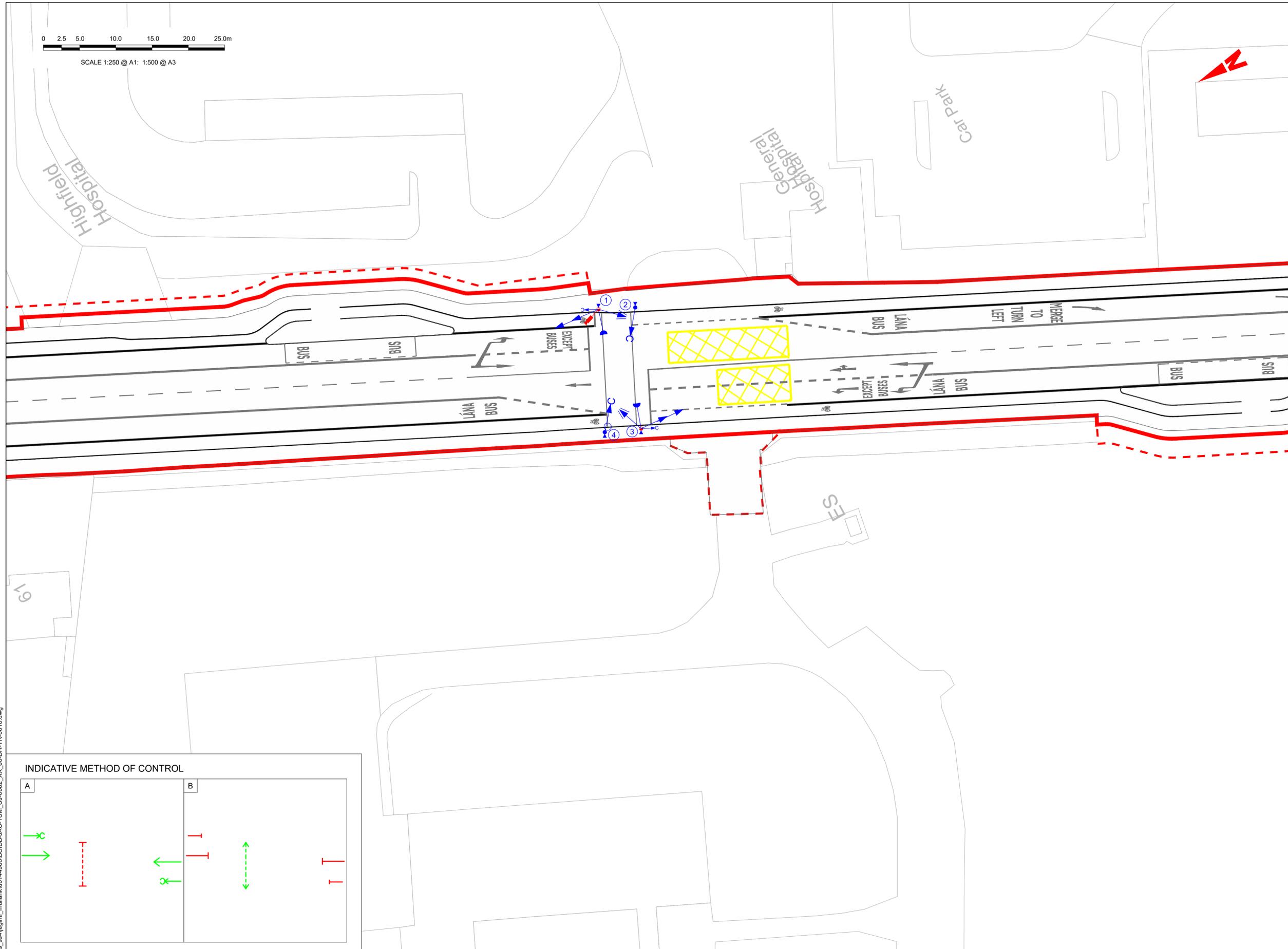
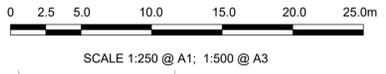
Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / IVERAGH ROAD JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0025	Sheet Number: 25 of 44	Status: A	Rev: M01

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

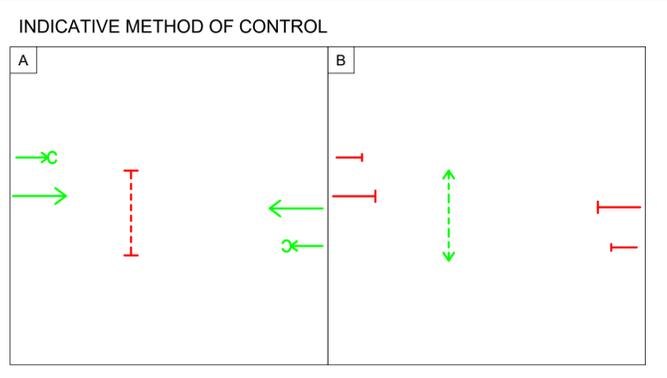
- RTS 001: [Symbol]
- RTS 002: [Symbol]
- RTS 003: [Symbol]
- RTS 007: [Symbol]
- RPC 004: [Symbol]

TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



C:\pwworking\jacobs_uk_highways_ss4\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

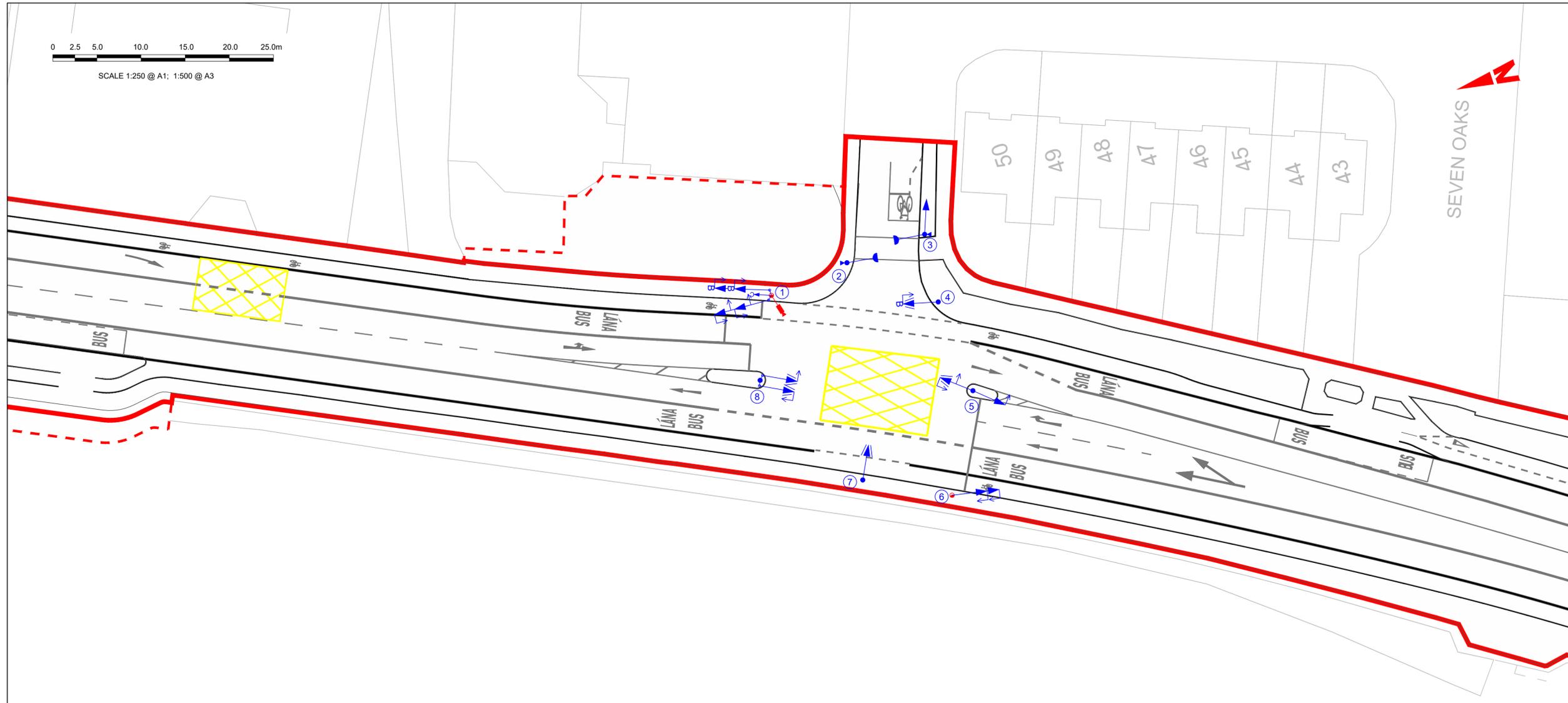
Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / HIGHFIELD HOSPITAL PEDESTRIAN CROSSING			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0026	Sheet Number: 26 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Signal head symbols]
- RTS 002: [Signal head symbols]
- RTS 003: [Signal head symbols]
- RTS 007: [Signal head symbols]
- RPC 004: [Signal head symbols]

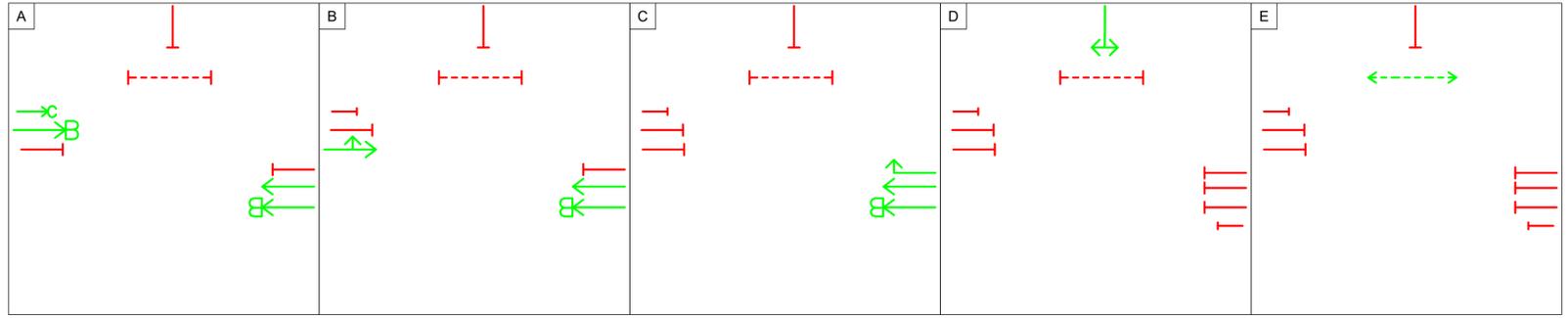
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



C:\pwworking\jacobs_uk_highways_ssa\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / SEVEN OAKS JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0027	Sheet Number: 27 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



SCALE 1:250 @ A1; 1:500 @ A3

LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

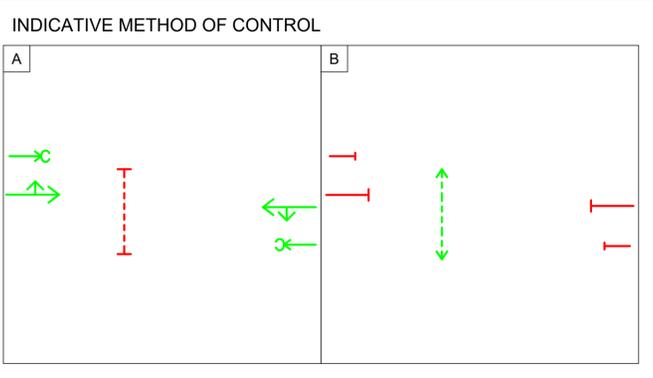
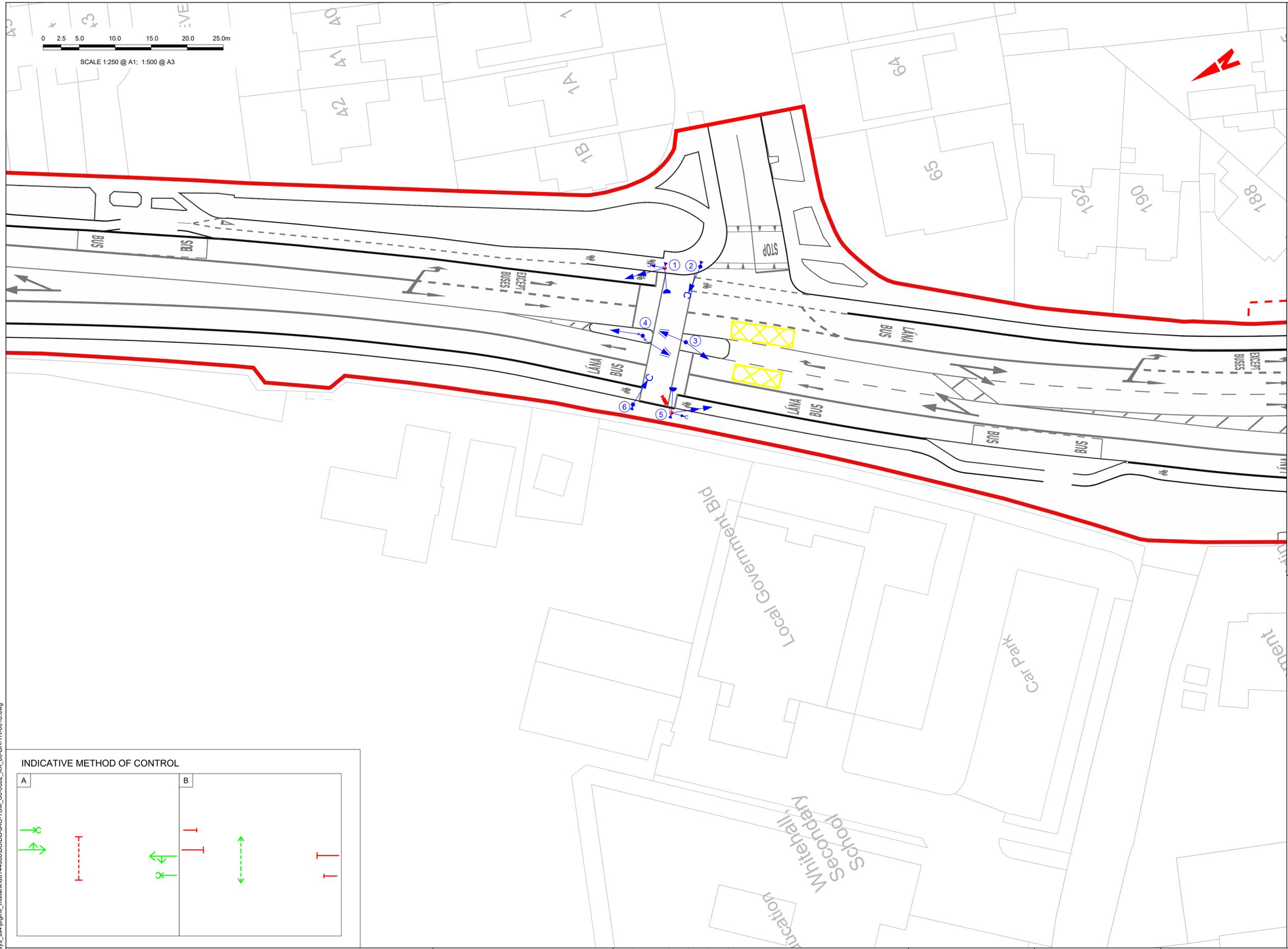
RPC 004

TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Grid Model (OSGM15) Malin Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Project Ireland 2040
Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

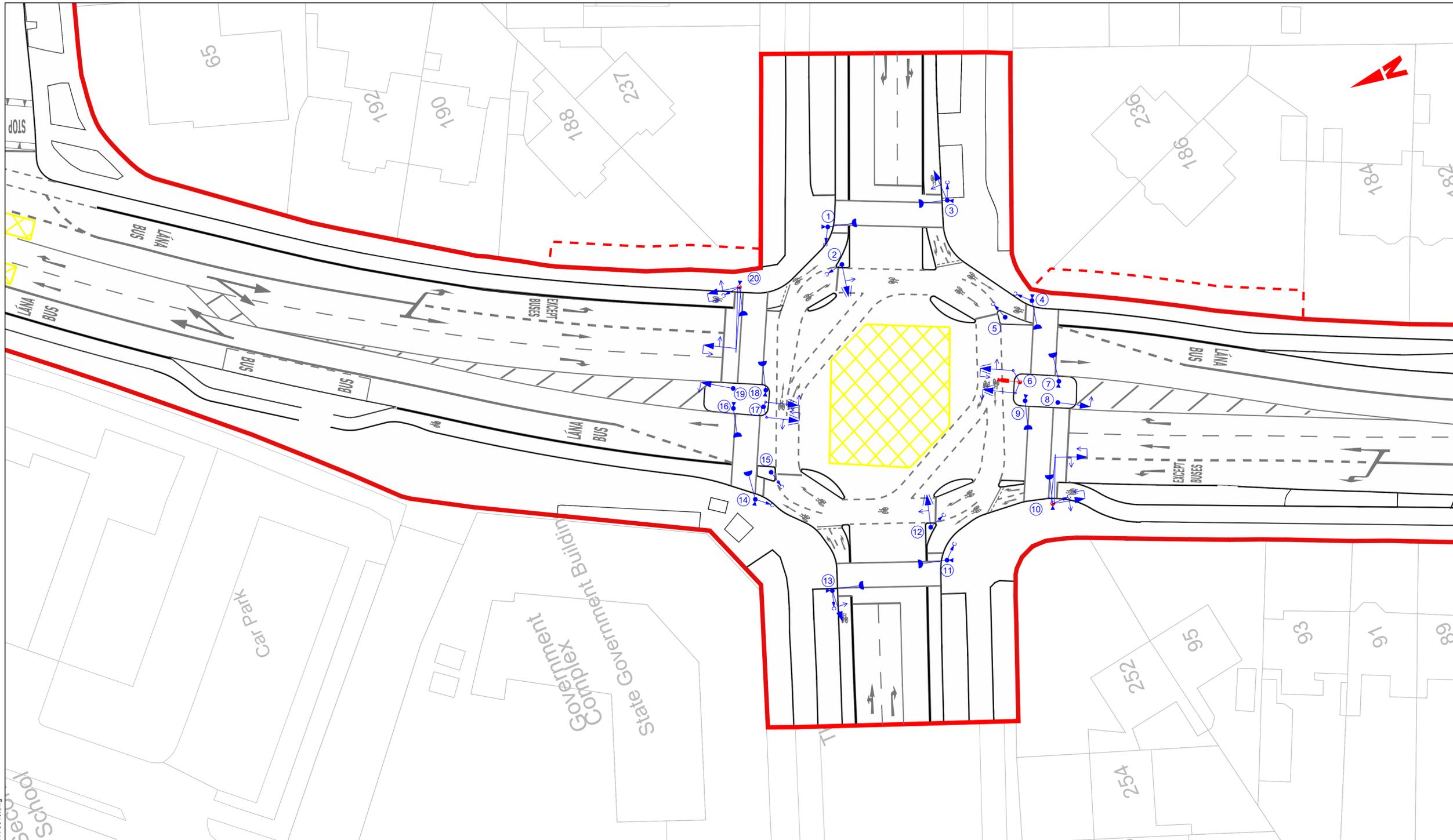
Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SWORDS ROAD / GRIFFITH DOWNS PEDESTRIAN CROSSING			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0028	Sheet Number: 28 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullana\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

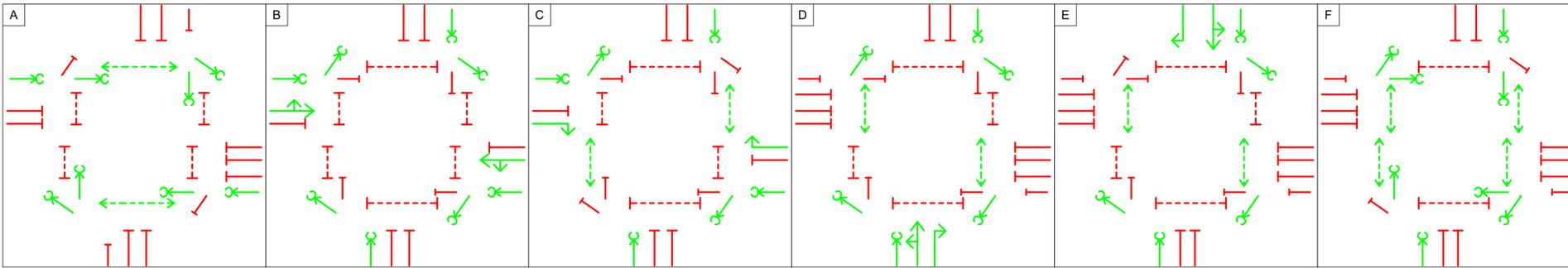
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client

NTA
Udarás Náisiúnta Iompair
National Transport Authority

Date: 06/04/2023
Scale: 1:250 @ A1
1:500 @ A3

Engineering Designer

Jacobs

Drawn: FM
Checked: IL
Approved: HOS

Project Code: BCIDB
Originator Code: JAC
QMS Code:

Programme Title

BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title

SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME
JUNCTION SYSTEM DESIGN
SWORDS ROAD / GRIFFITH AVENUE JUNCTION

Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0029

Sheet Number: 29 of 44

Status: A

Rev: M01

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullian\01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg

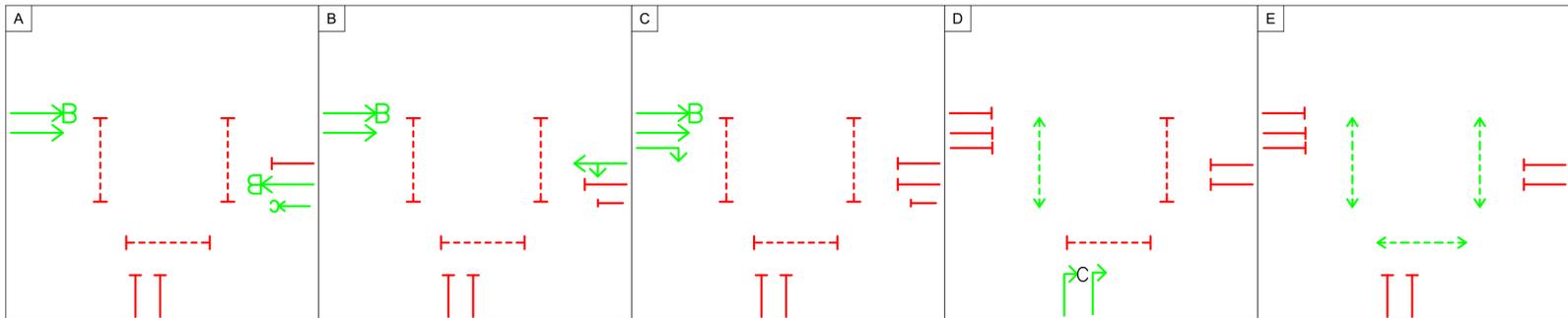


SCALE 1:250 @ A1; 1:500 @ A3



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001
 - RTS 002
 - RTS 003
 - RTS 007
 - RPC 004
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client

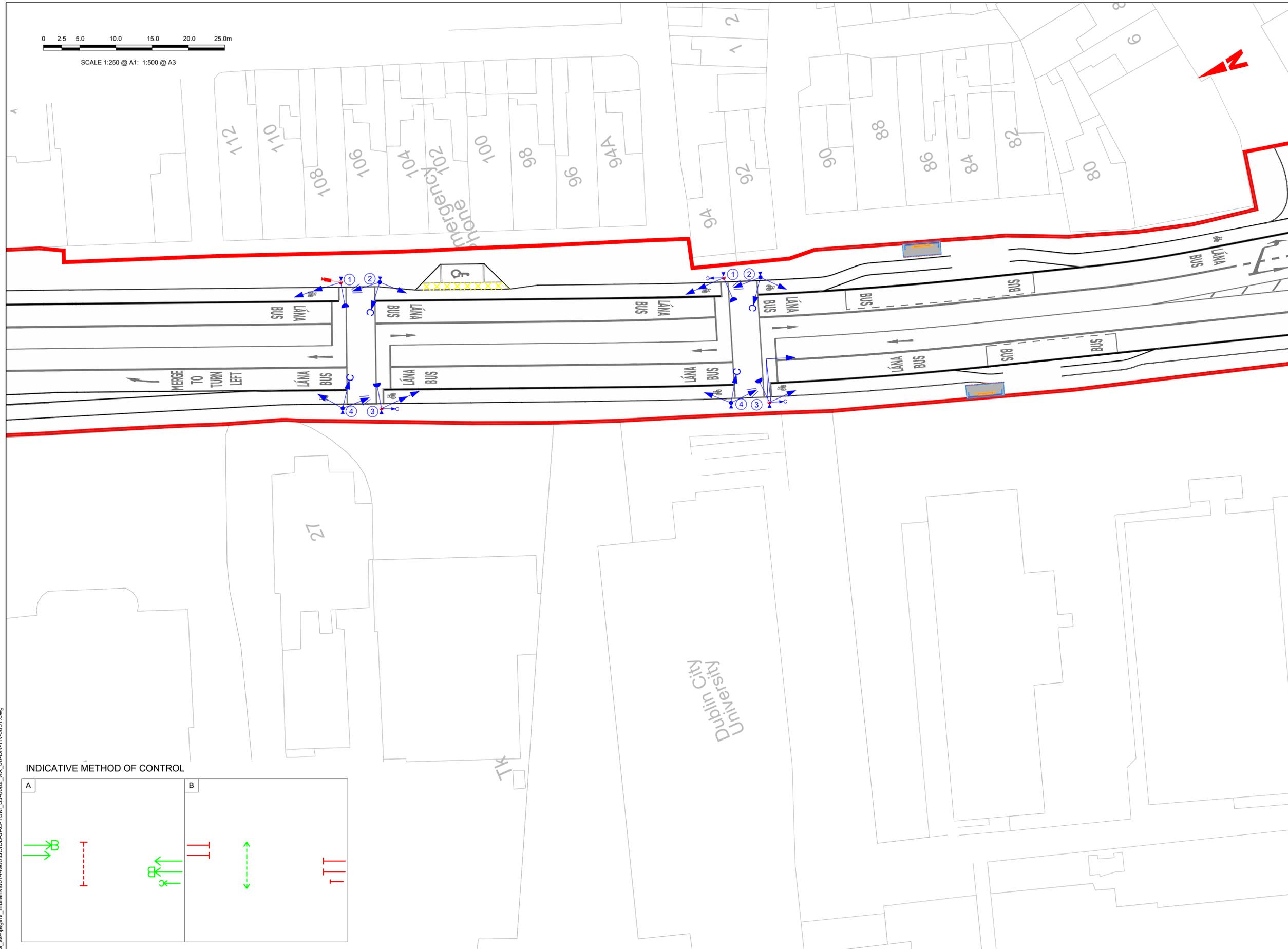
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer

Drawn: FM
Checked: IL
Approved: HOS

Programme Title			
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title			
SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN UPPER DRUMCONDRA ROAD / HOME FARM ROAD JUNCTION			
Drawing File Name	Sheet Number	Status	Rev
BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0030	30 of 44	A	M01

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullank\0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0016.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Signal head symbols]
- RTS 002: [Signal head symbols]
- RTS 003: [Signal head symbols]
- RTS 007: [Signal head symbols]
- RPC 004: [Signal head symbols]

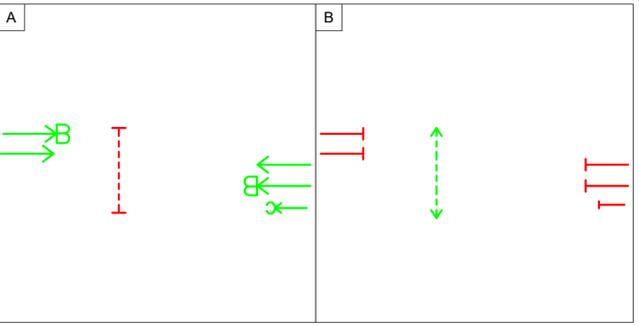
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



C:\pwworking\jacobs_uk_highways_ss4\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

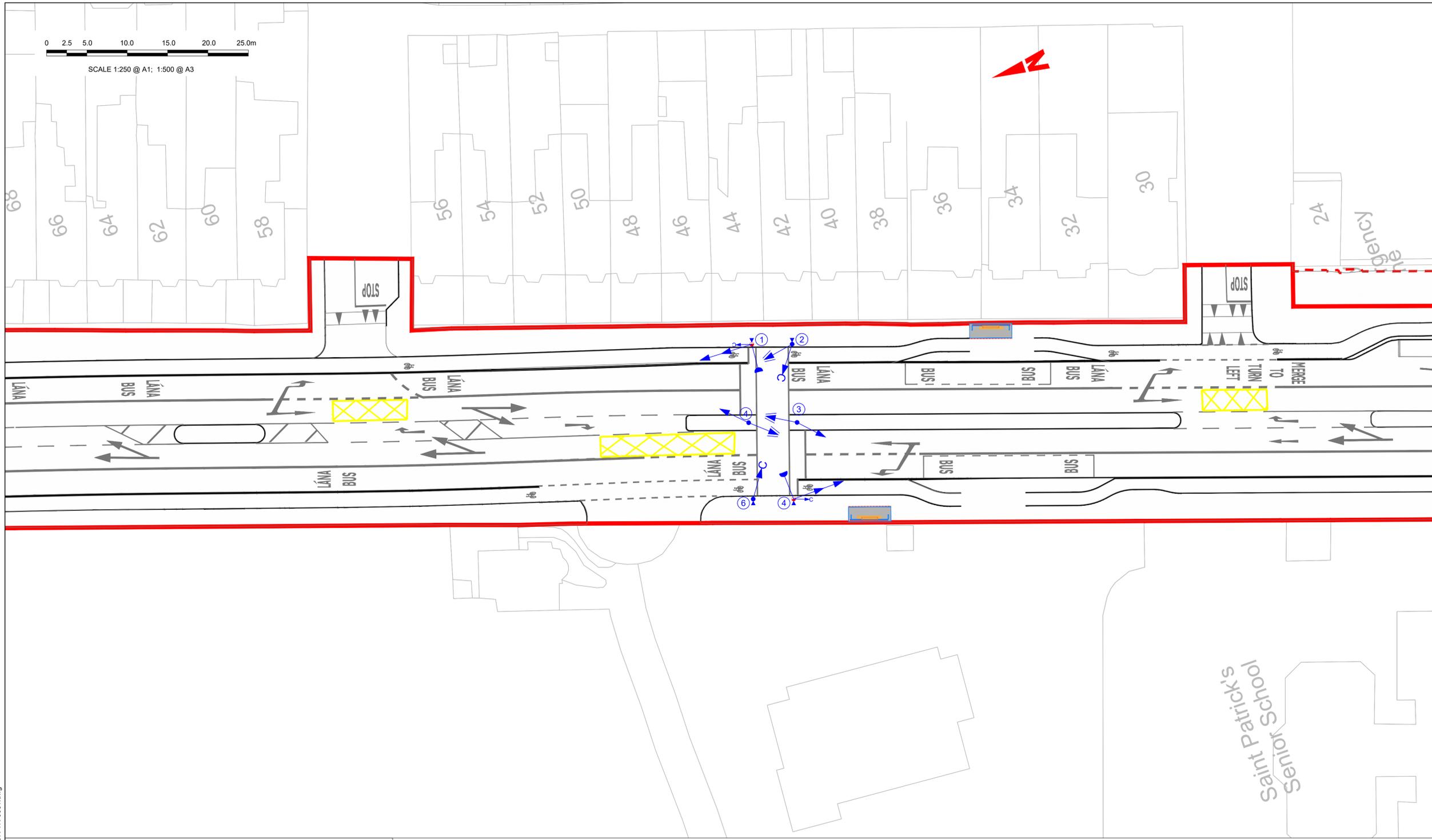
Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN UPPER DRUMCONDRA ROAD / FMYLON HOTEL PEDESTRIAN CROSSING			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031	Sheet Number: 31 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

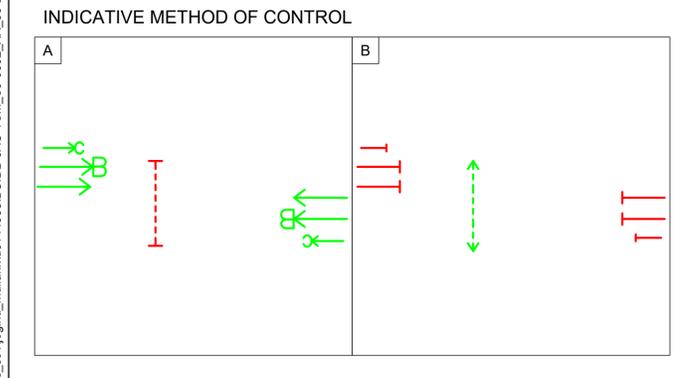
RPC 004

TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊙ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION



Disclaimer:

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this information. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023
Scale: 1:250 @ A1
1:500 @ A3

Drawn: FM
Checked: IL
Approved: HOS

Project Code: BCIDB
Originator Code: JAC
QMS Code:

Programme Title: **BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME
JUNCTION SYSTEM DESIGN
UPPER DRUMCONDRA ROAD / ORMOND ROAD PEDESTRIAN CROSSING**

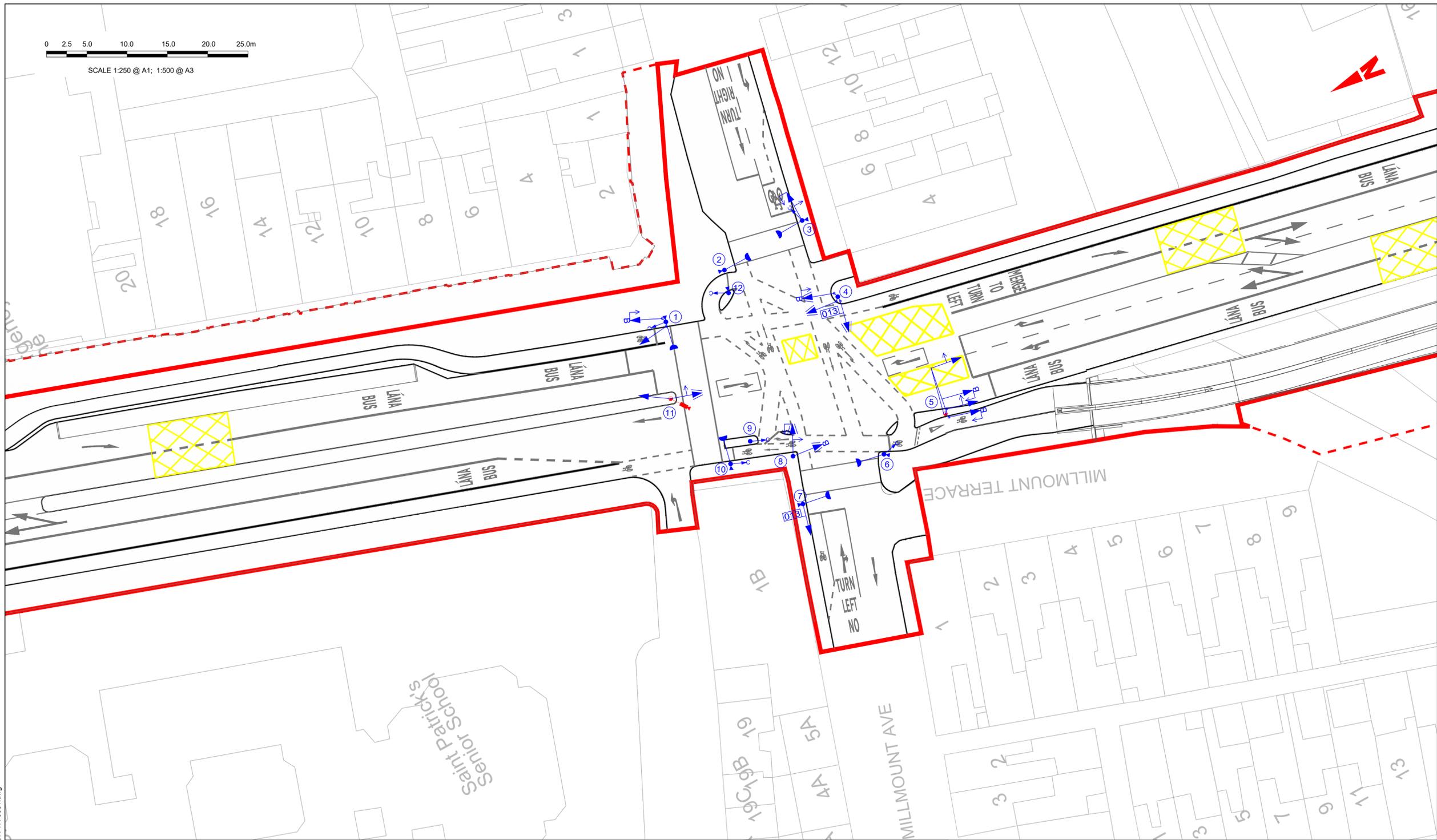
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0032	Sheet Number: 32 of 44	Status: A	Rev: M01
---	------------------------	-----------	----------

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



SCALE 1:250 @ A1; 1:500 @ A3



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

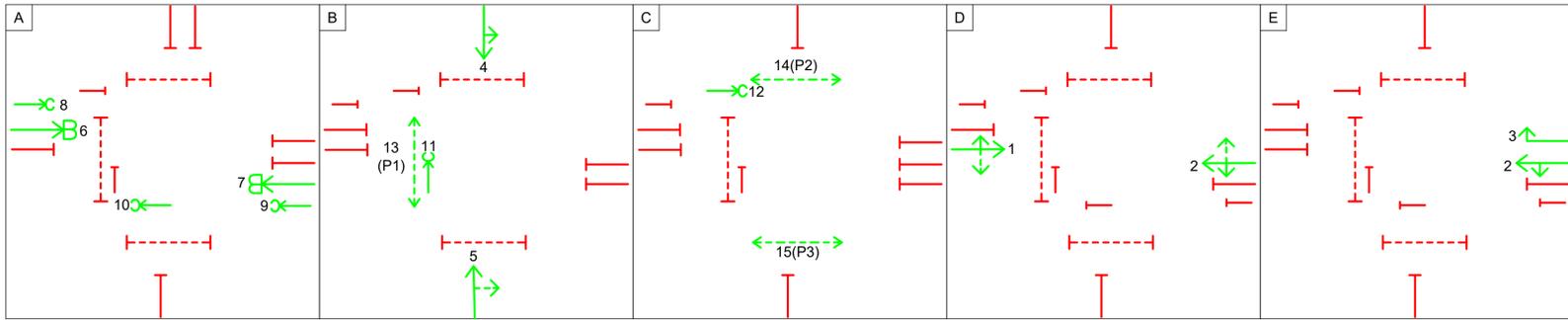
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

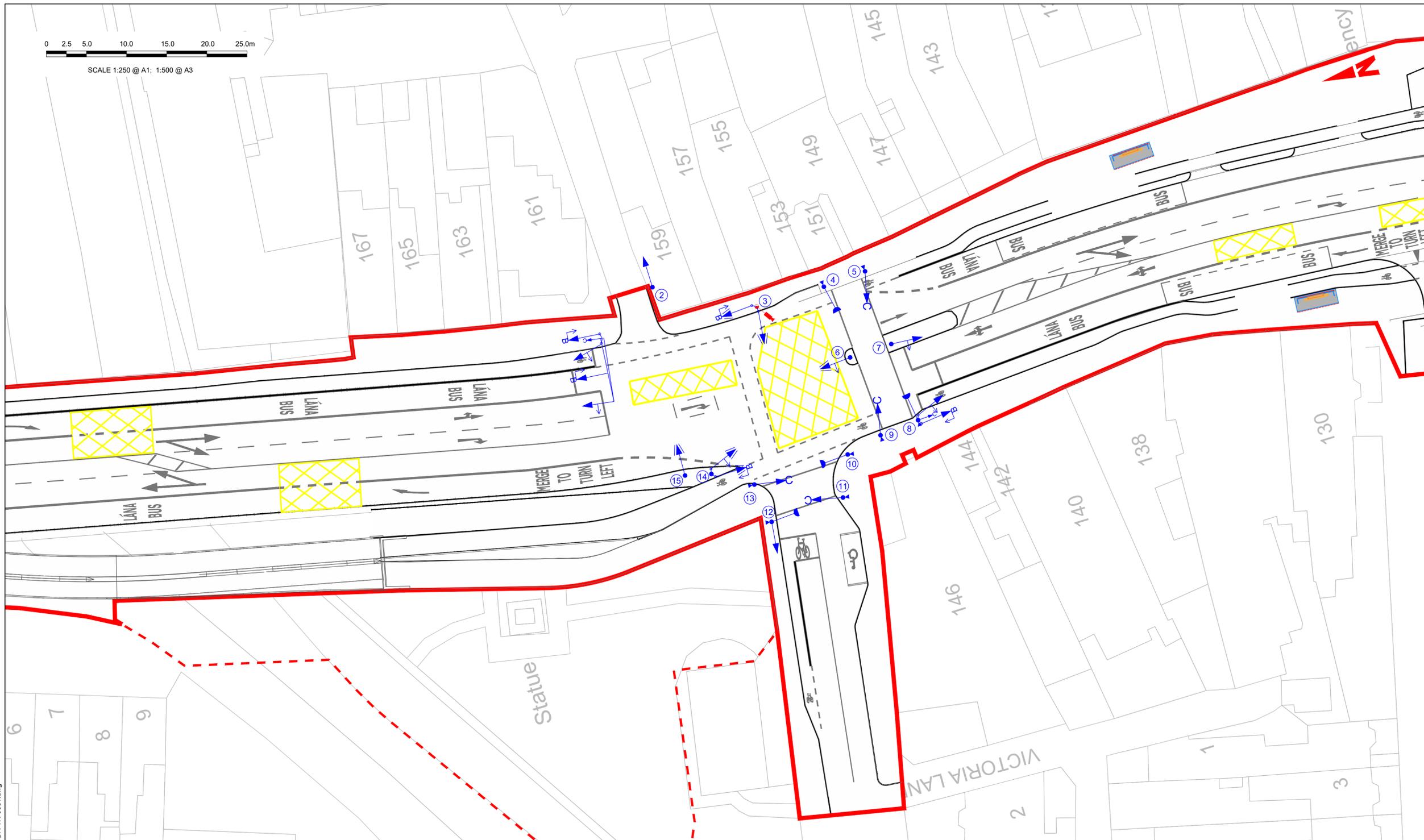
Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN UPPER DRUMCONDRA ROAD / MILLMOUNT AVENUE JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0033	Sheet Number: 33 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



SCALE 1:250 @ A1; 1:500 @ A3



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Symbol]
- RTS 002: [Symbol]
- RTS 003: [Symbol]
- RTS 007: [Symbol]
- RPC 004: [Symbol]

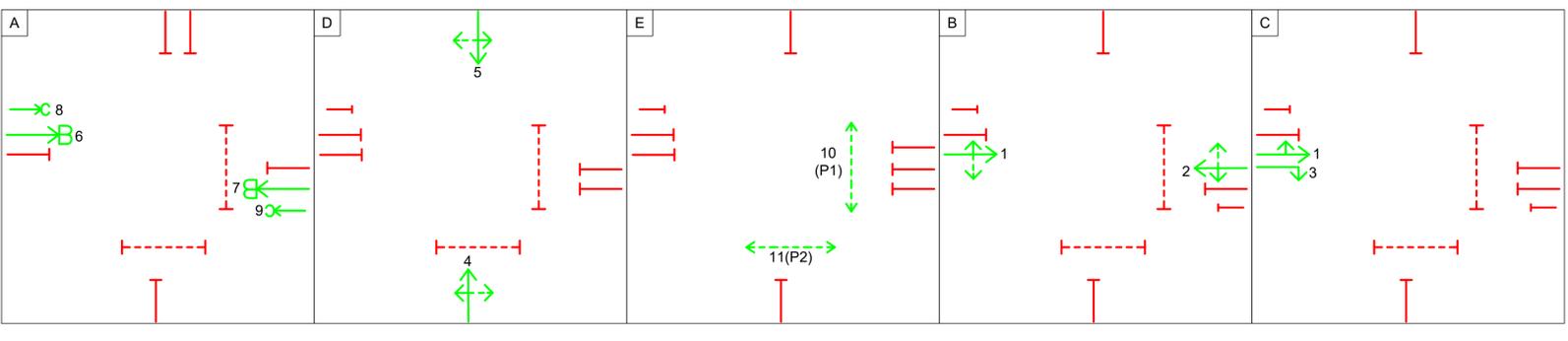
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

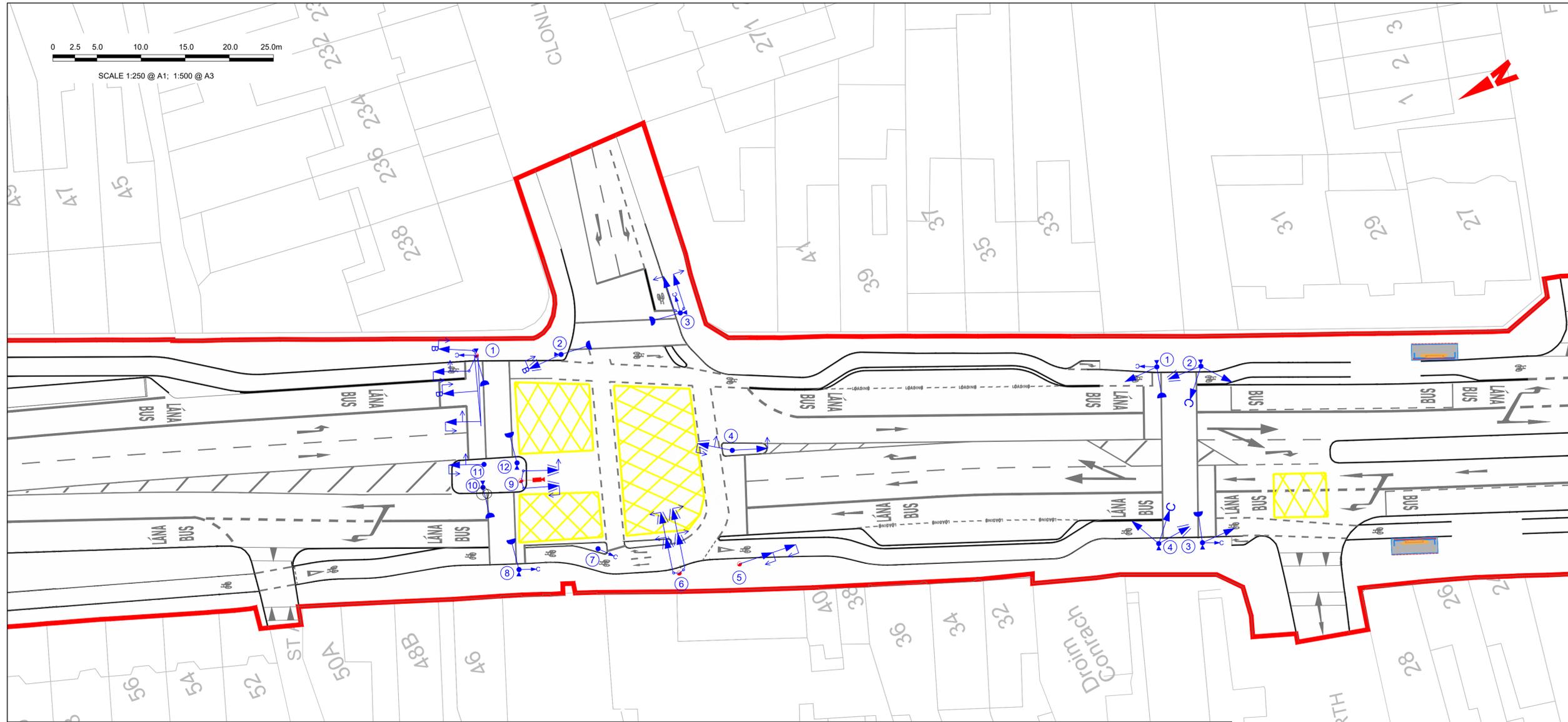
Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN UPPER DRUMCONDRA ROAD / BOTANIC AVENUE / CIAN PARK JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0034	Sheet Number: 34 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullian\0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Signal head symbol]
- RTS 002: [Signal head symbol]
- RTS 003: [Signal head symbol]
- RTS 007: [Signal head symbol]
- RPC 004: [Signal head symbol]

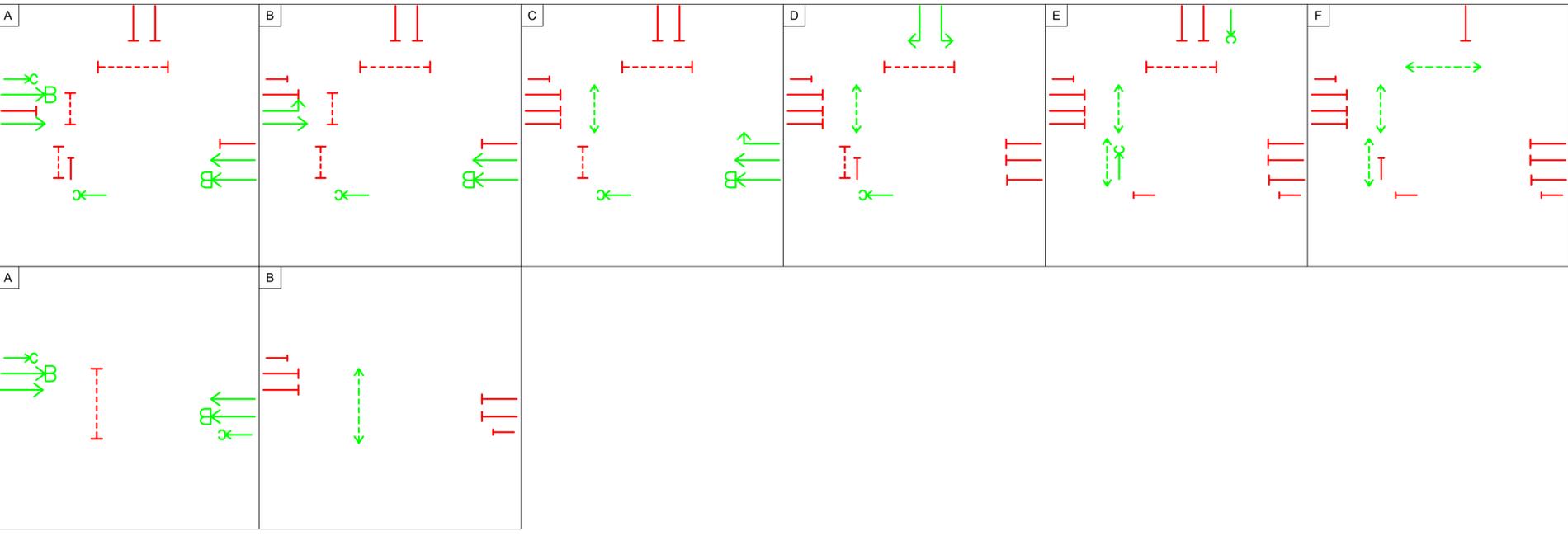
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

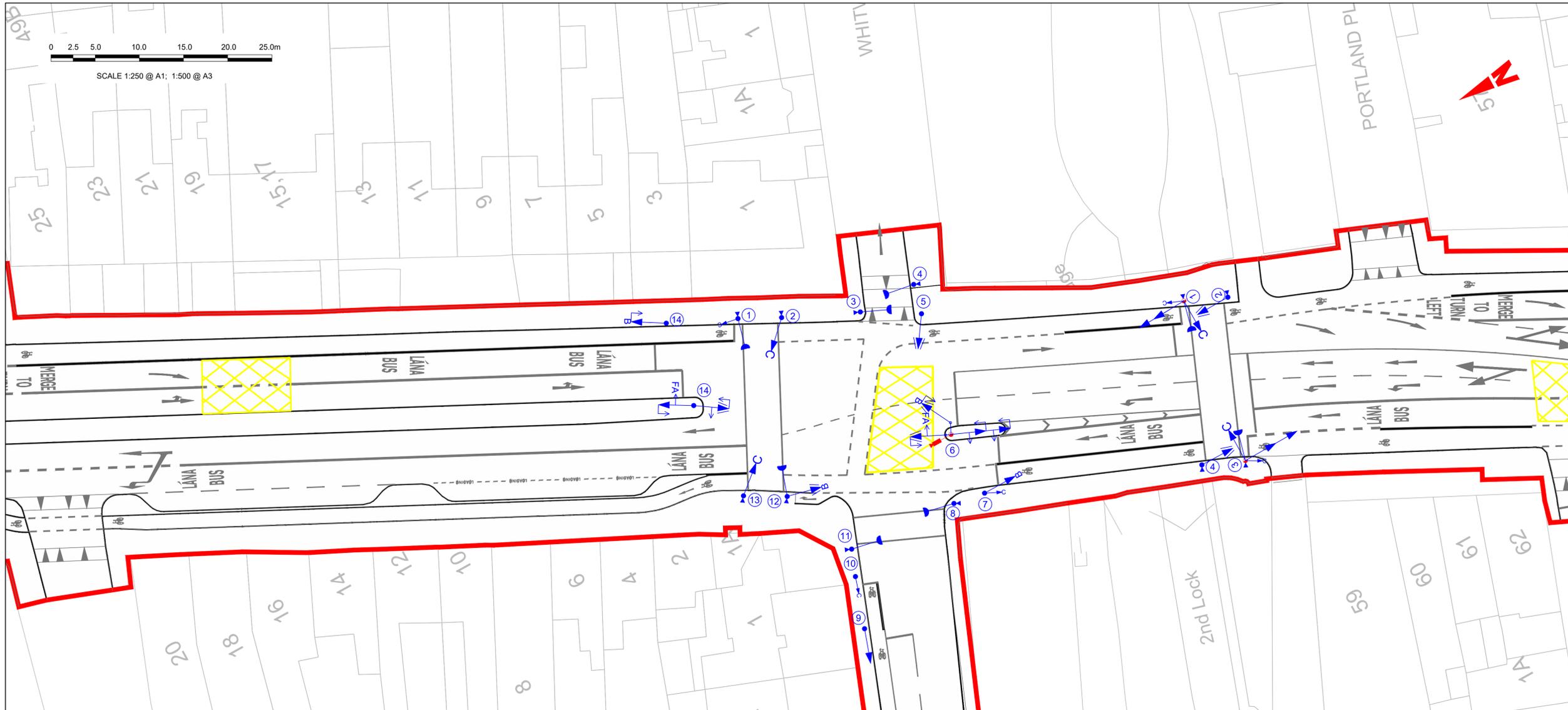
Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN DRUMCONDRA ROAD LOWER / CLONLIFFE ROAD JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0035	Sheet Number: 35 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Signal head symbols]
- RTS 002: [Signal head symbols]
- RTS 003: [Signal head symbols]
- RTS 007: [Signal head symbols]
- RPC 004: [Signal head symbols]

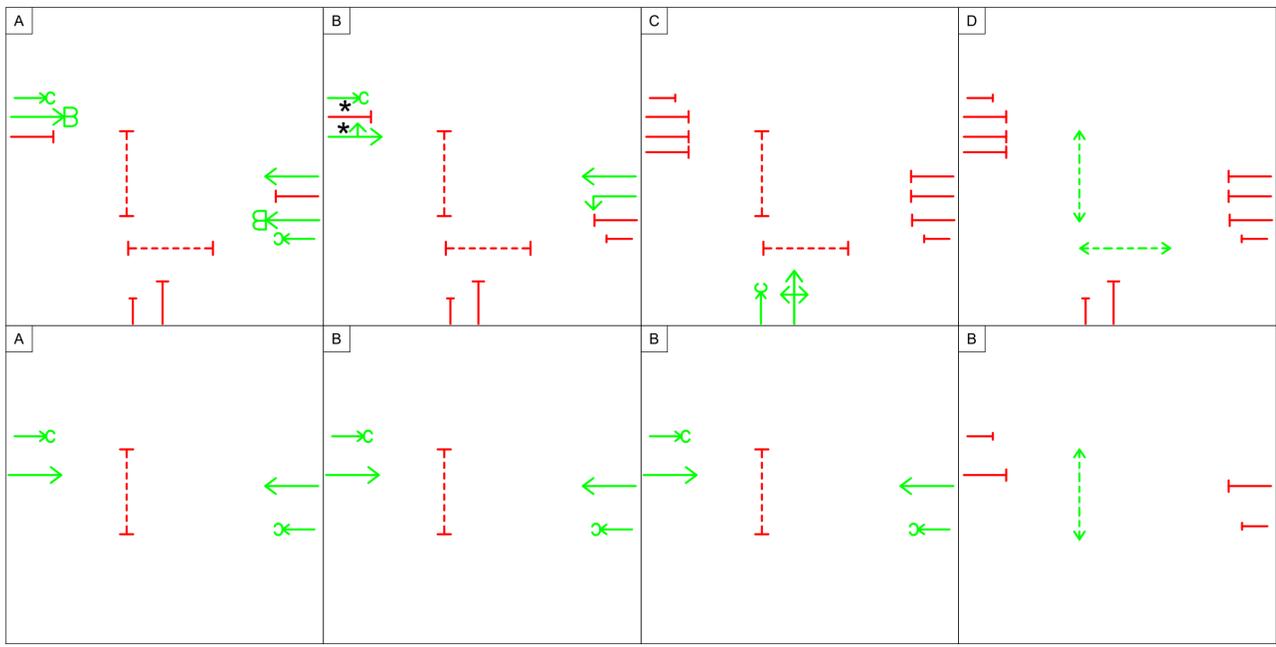
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



* DENOTES FLASHING AMBER

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

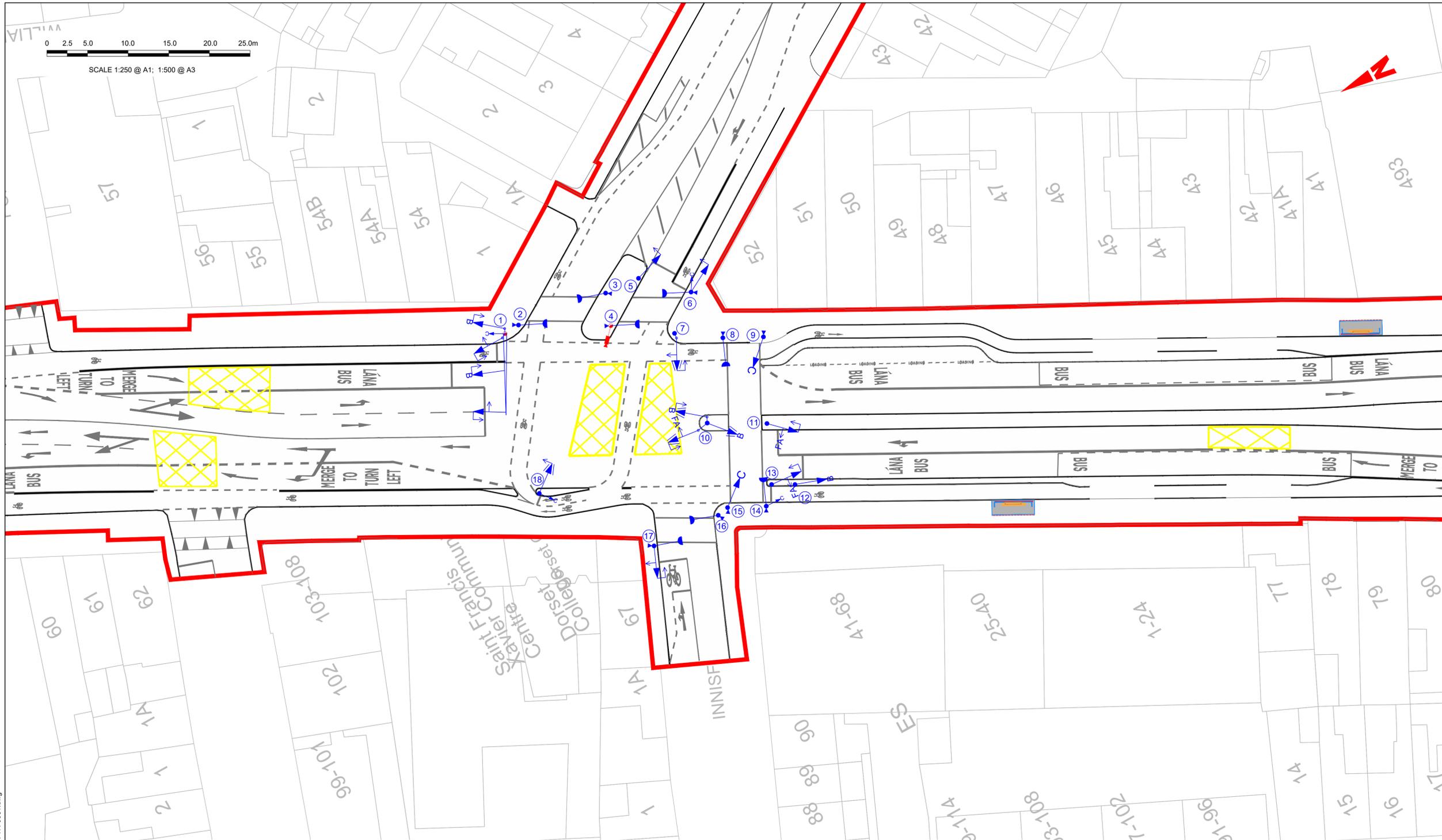
Engineering Designer: **Jacobs**

Date	Scale	Drawn	Checked	Approved
06/04/2023	1:250 @ A1 1:500 @ A3	FM	IL	HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN DRUMCONDRA ROAD LOWER / WHITWORTH PLACE / WHITWORTH ROAD JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0036	Sheet Number: 36 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

TRAFFIC SIGNAL HEADS:

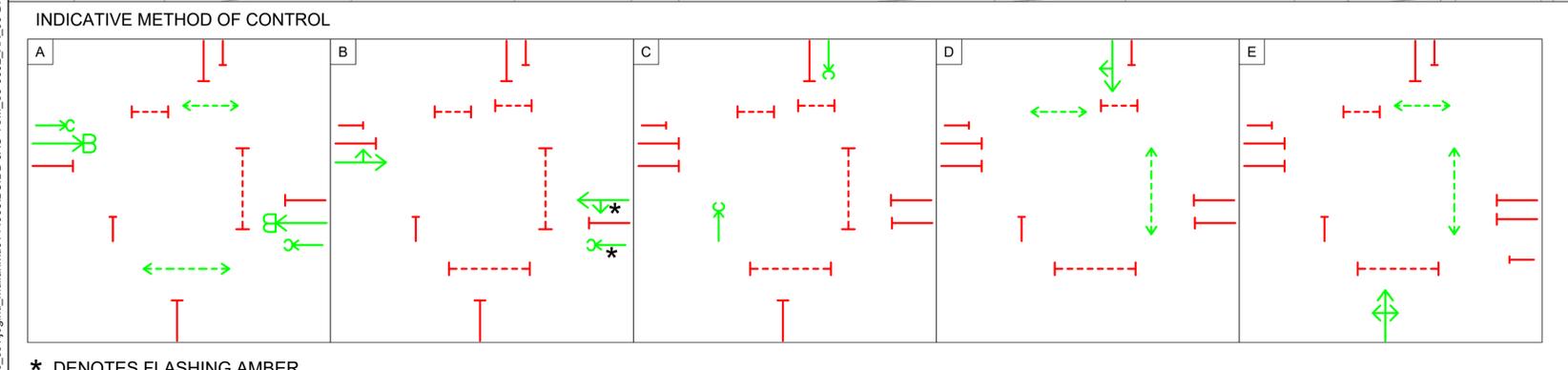
- RTS 001: [Symbol]
- RTS 002: [Symbol]
- RTS 003: [Symbol]
- RTS 007: [Symbol]
- RPC 004: [Symbol]

TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

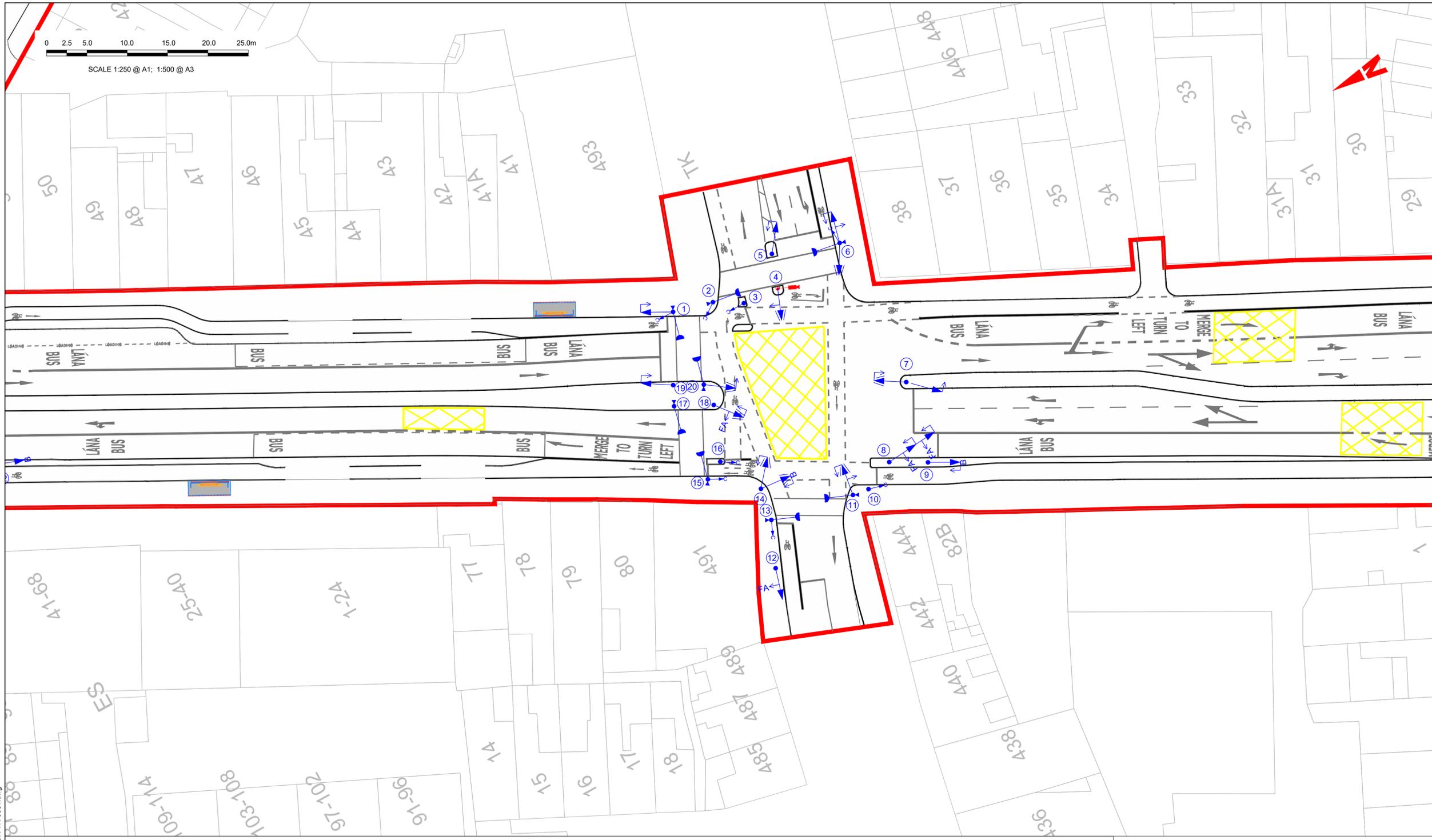
Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN DORSET STREET LOWER / BELVIDERE ROAD / INNISFALLIN PARADE JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0037	Sheet Number: 37 of 44	Status: A	Rev: M01

C:\pwworking\jacobs_uk_highways_ssa\legintl_mullian\01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Symbol]
- RTS 002: [Symbol]
- RTS 003: [Symbol]
- RTS 007: [Symbol]
- RPC 004: [Symbol]

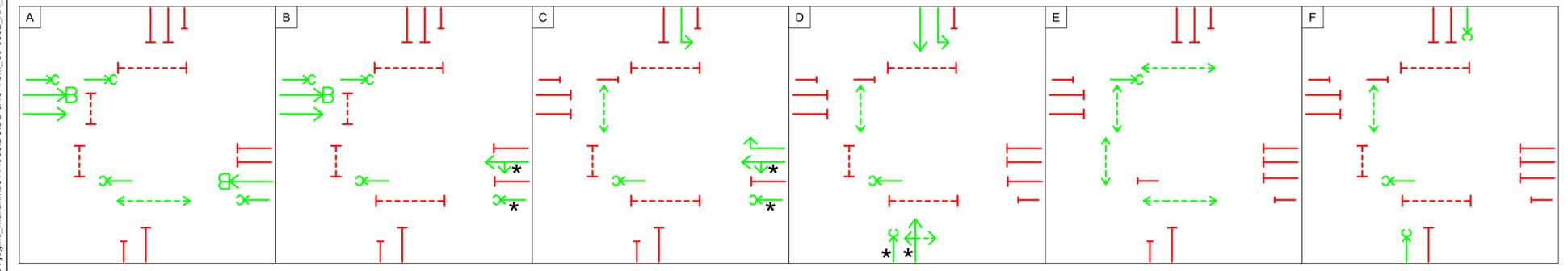
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊙ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



* DENOTES FLASHING AMBER

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

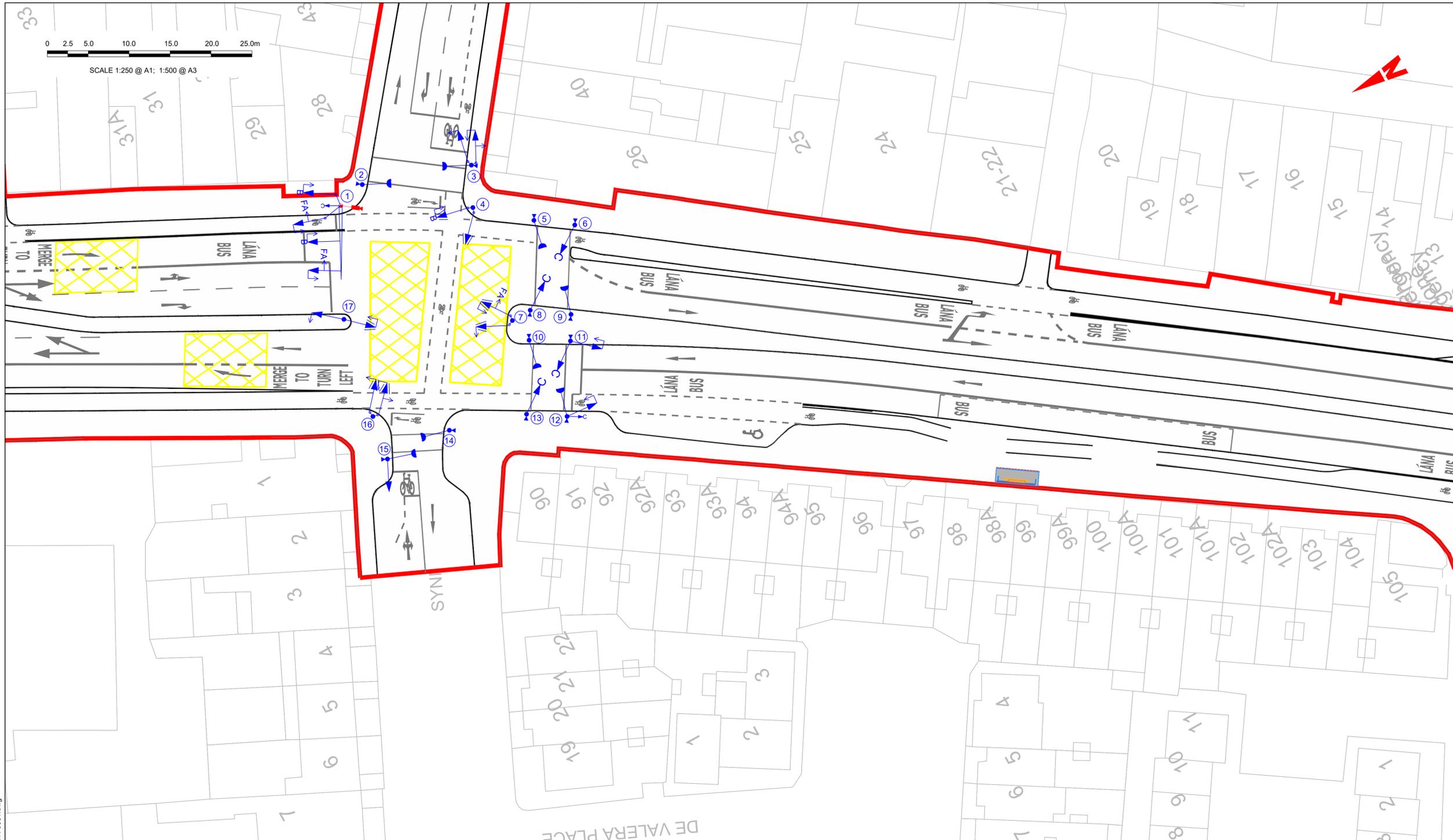
Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN DORSET STREET LOWER / NORTH CIRCULAR ROAD JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0038	Sheet Number: 38 of 44	Status: A	Rev: M01

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

- RTS 001: [Symbol]
- RTS 002: [Symbol]
- RTS 003: [Symbol]
- RTS 007: [Symbol]
- RPC 004: [Symbol]

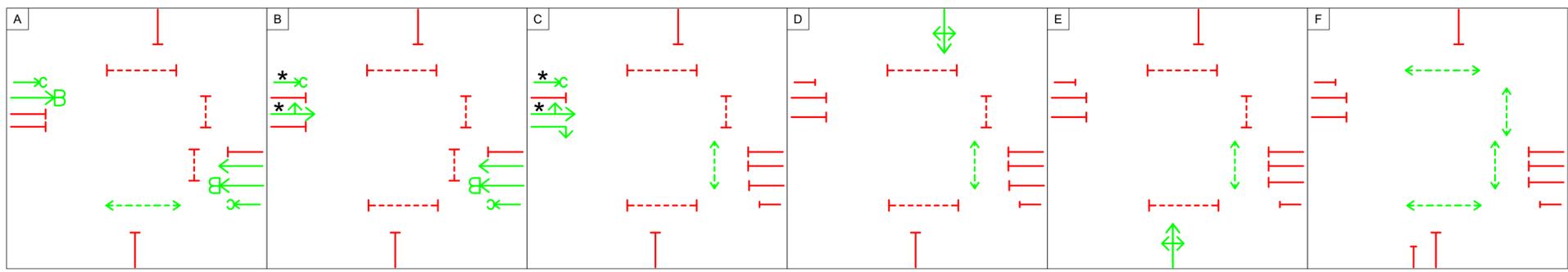
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊙ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



* DENOTES FLASHING AMBER

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

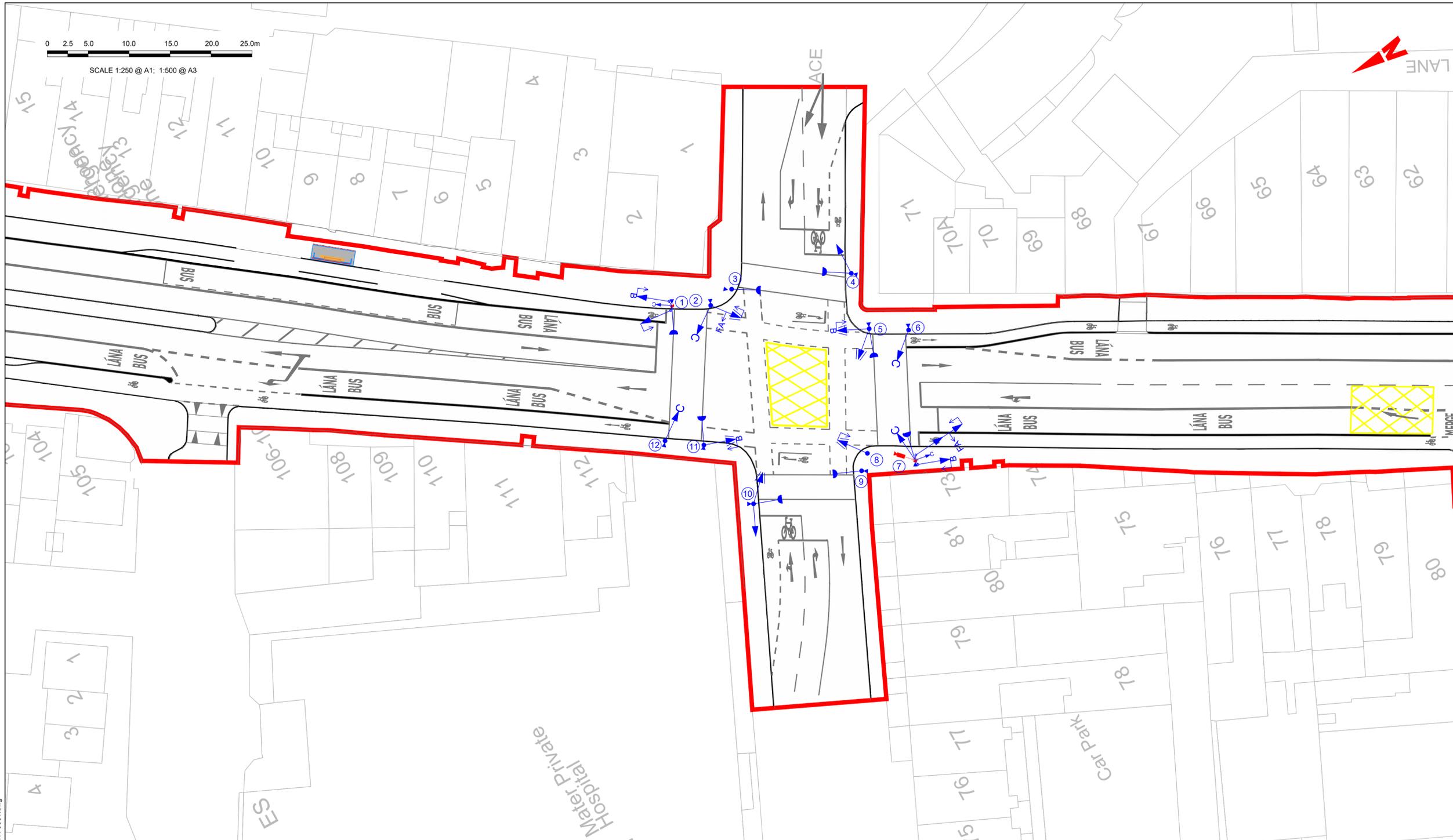
Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN DORSET STREET LOWER / SYNOTT PLACE JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0039	Sheet Number: 39 of 44	Status: A	Rev: M01

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

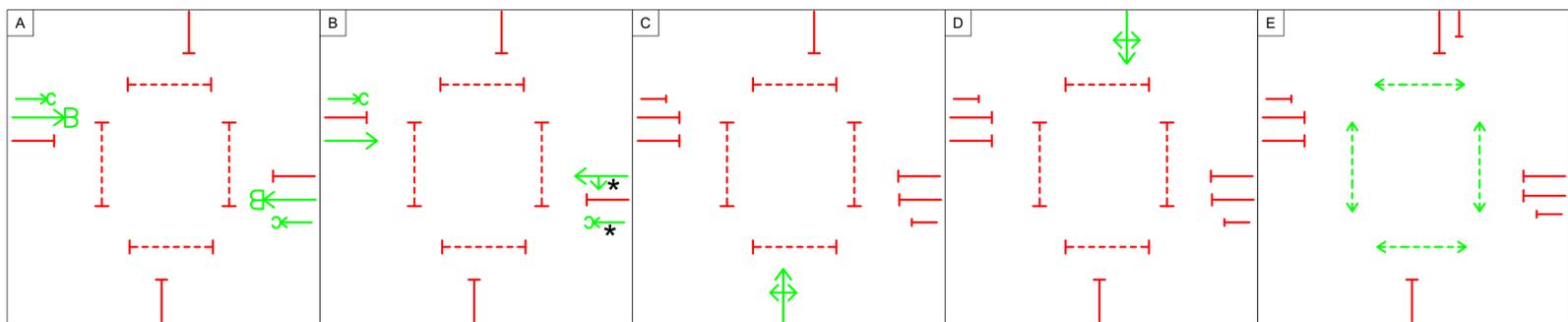
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊙ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



* DENOTES FLASHING AMBER

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client

NTA
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer

Jacobs

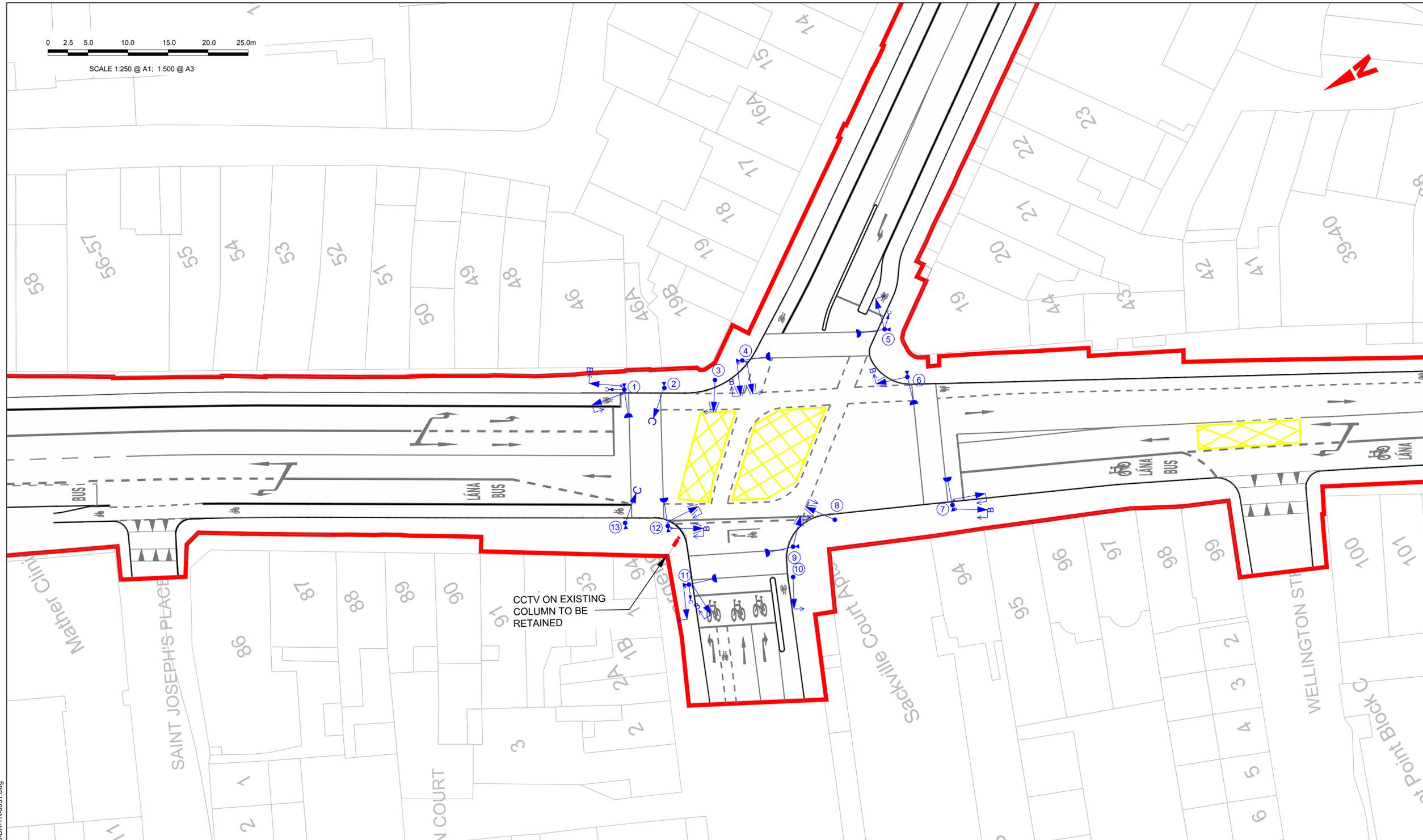
Date: 06/04/2023 Scale: 1:250 @ A1, 1:500 @ A3

Drawn: FM Checked: IL Approved: HOS

Project Code: BCIDB Originator Code: JAC QMS Code:

Programme Title			
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title			
SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN DORSET STREET UPPER / ECCLES STREET JUNCTION			
Drawing File Name	Sheet Number	Status	Rev
BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0040	40 of 44	A	M01

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001: [Symbol]

RTS 002: [Symbol]

RTS 003: [Symbol]

RTS 007: [Symbol]

RPC 004: [Symbol]

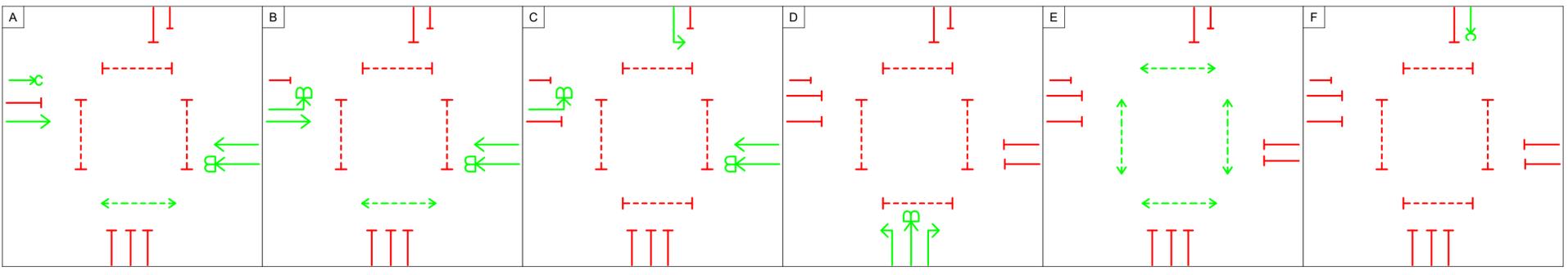
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

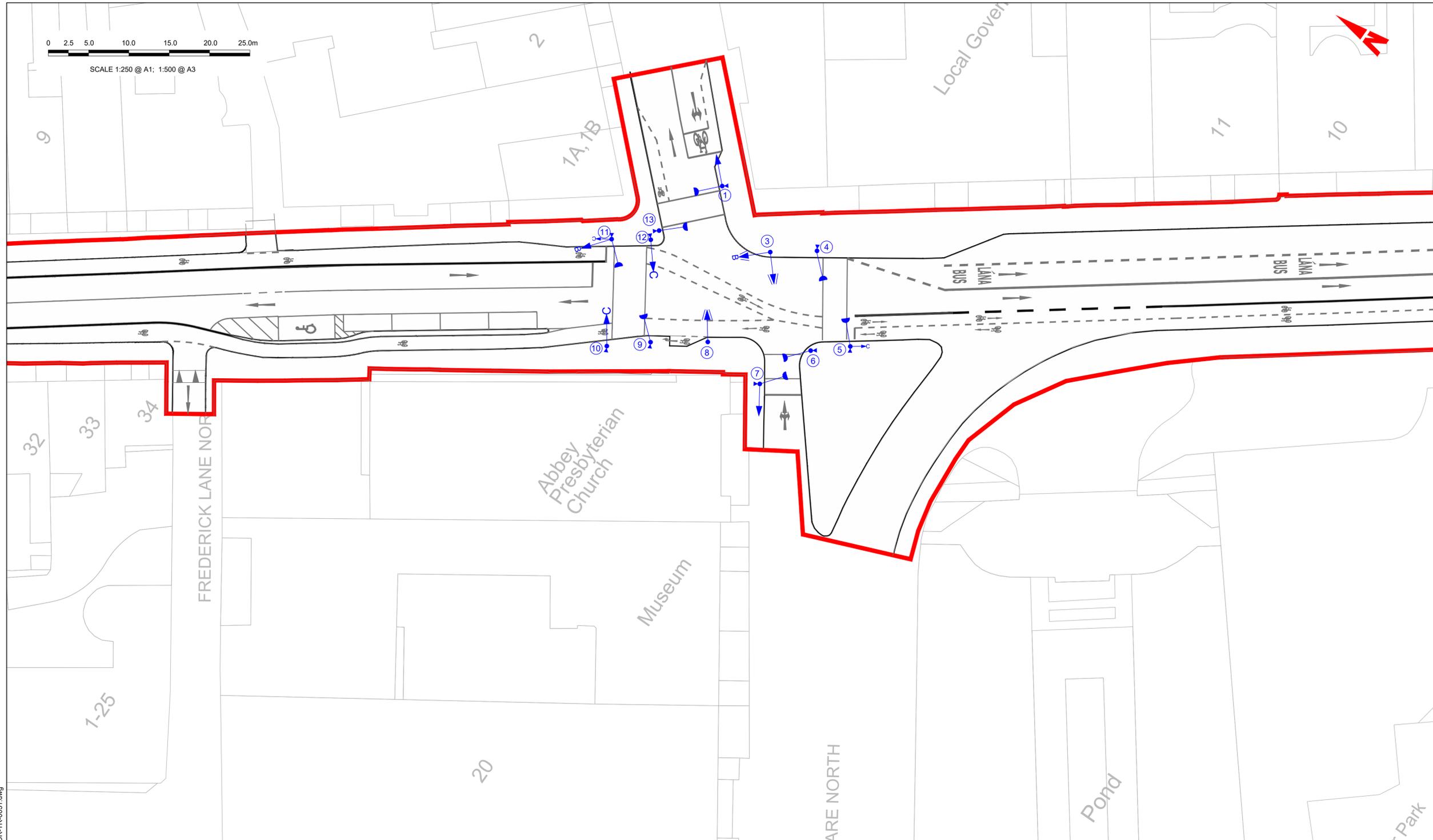
Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN**
DORSET STREET UPPER / BLESSINGTON STREET / NORTH FREDRICK STREET JUNCTION

Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0041	Sheet Number: 41 of 44	Status: A	Rev: M01
---	------------------------	-----------	----------

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

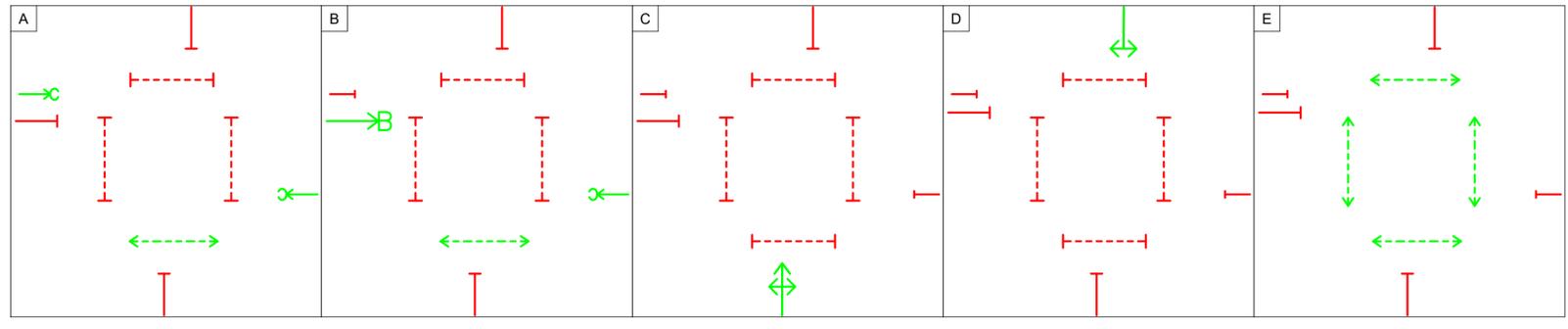
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

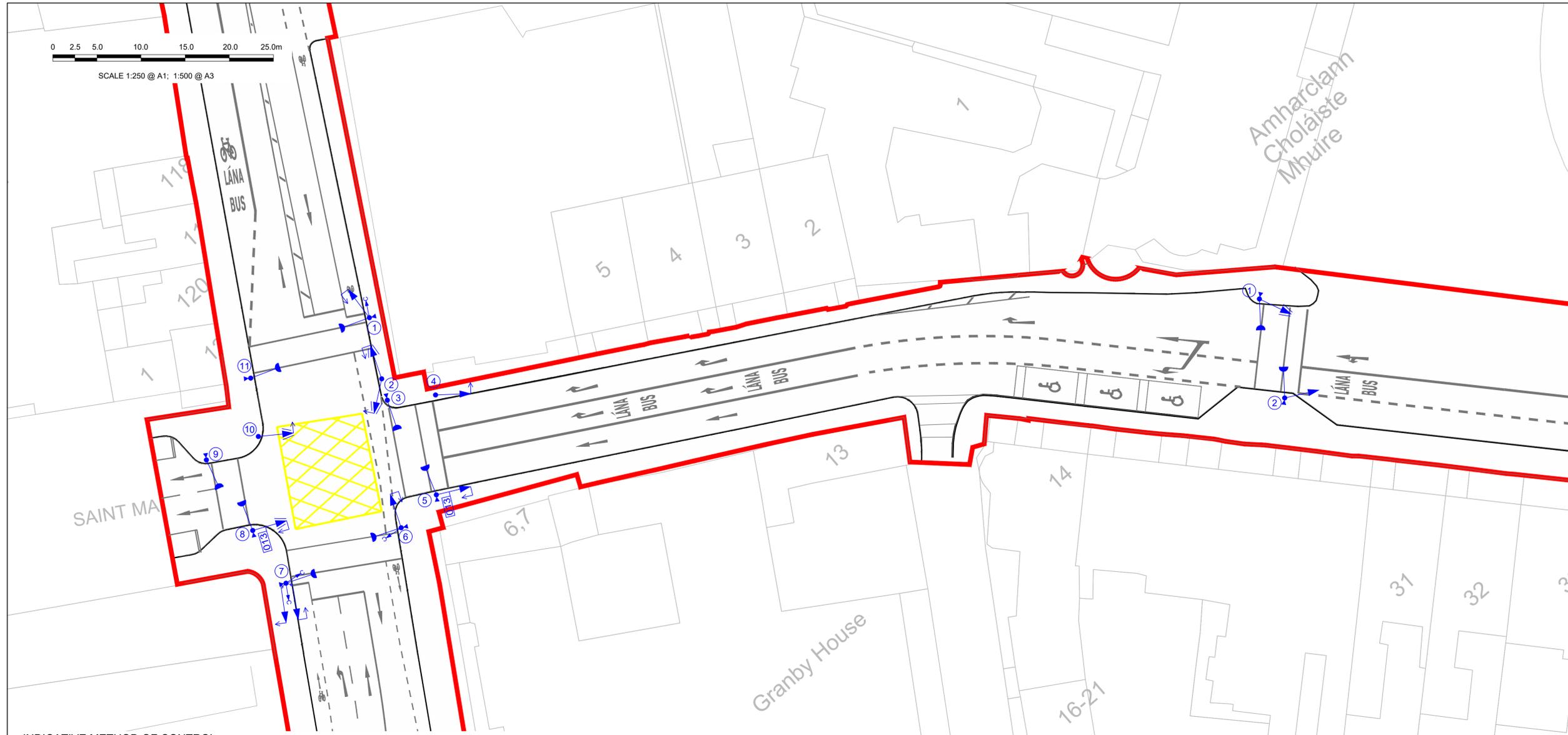
Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN NORTH FREDRICK STREET / PARNELL SQUARE NORTH JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0042	Sheet Number: 42 of 44	Status: A	Rev: M01

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg



LEGEND:

TRAFFIC SIGNAL HEADS:

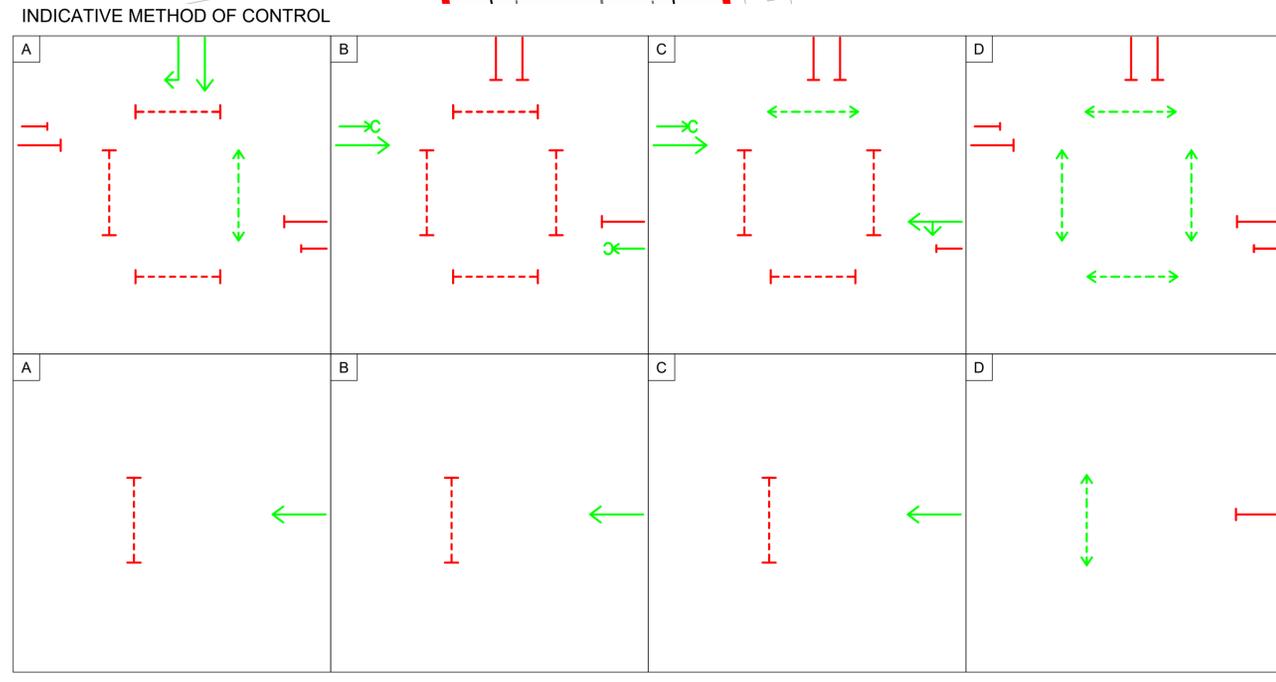
- RTS 001: [Signal head symbols]
- RTS 002: [Signal head symbols]
- RTS 003: [Signal head symbols]
- RTS 007: [Signal head symbols]
- RPC 004: [Signal head symbols]

TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- ⊗ POLE NUMBER
- ⊕ PUSH BUTTON UNIT
- CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- - - TEMPORARY LAND ACQUISITION



C:\pwworking\jacobs_uk_highways_ss4\legintl_mullankid01449681BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

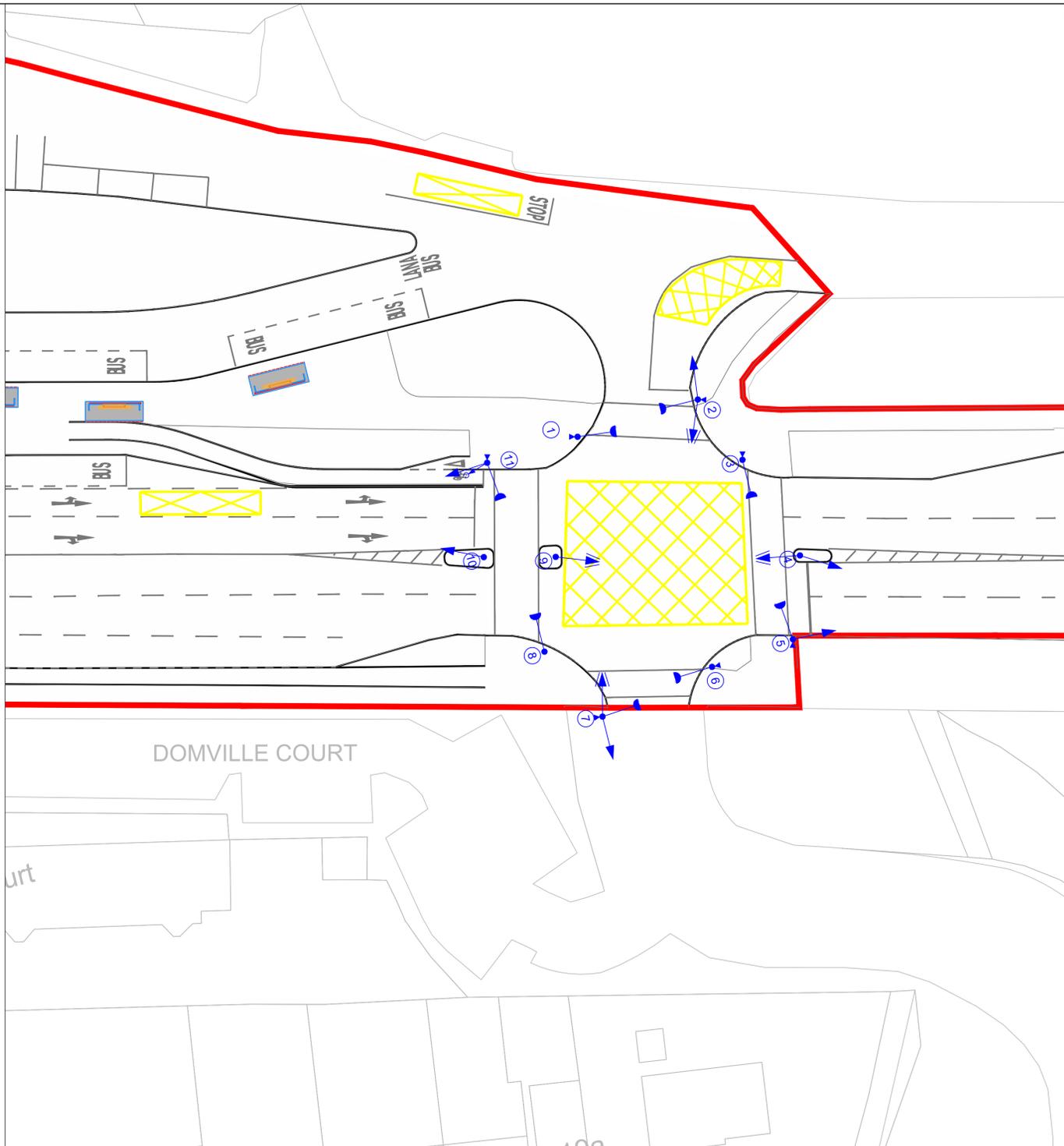
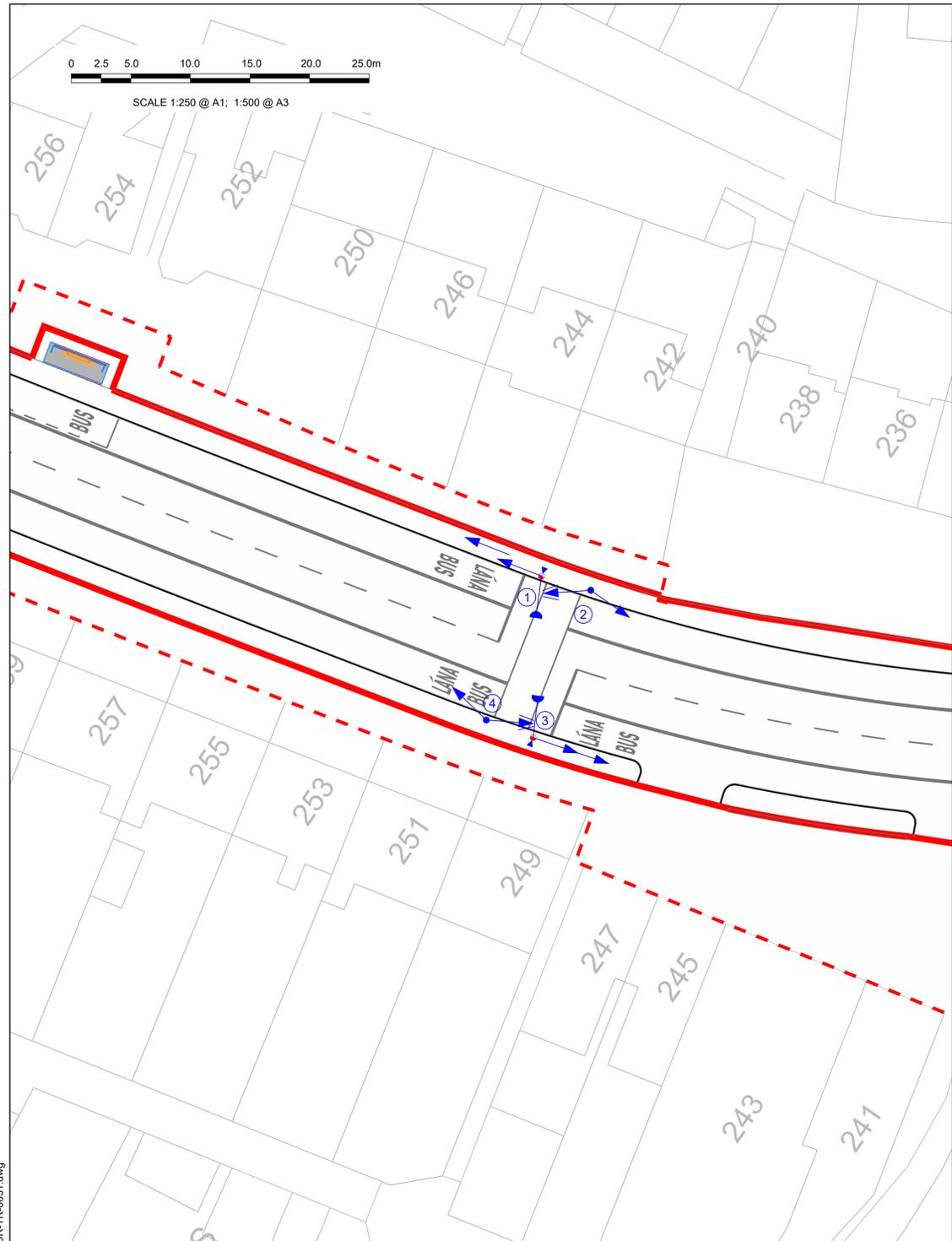
Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN DORSET STREET UPPER / GRANBY ROW / ST. MARY'S PLACE JUNCTION			
Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0043	Sheet Number: 43 of 44	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



SCALE 1:250 @ A1; 1:500 @ A3



LEGEND:

TRAFFIC SIGNAL HEADS:

RTS 001

RTS 002

RTS 003

RTS 007

RPC 004

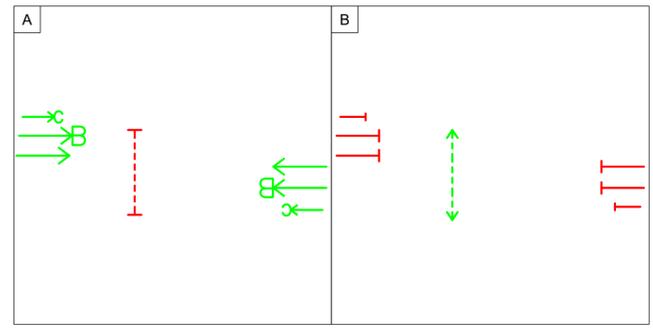
TRAFFIC SIGNAL EQUIPMENT:

- POLE (STANDARD HEIGHT)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- CCTV CAMERA

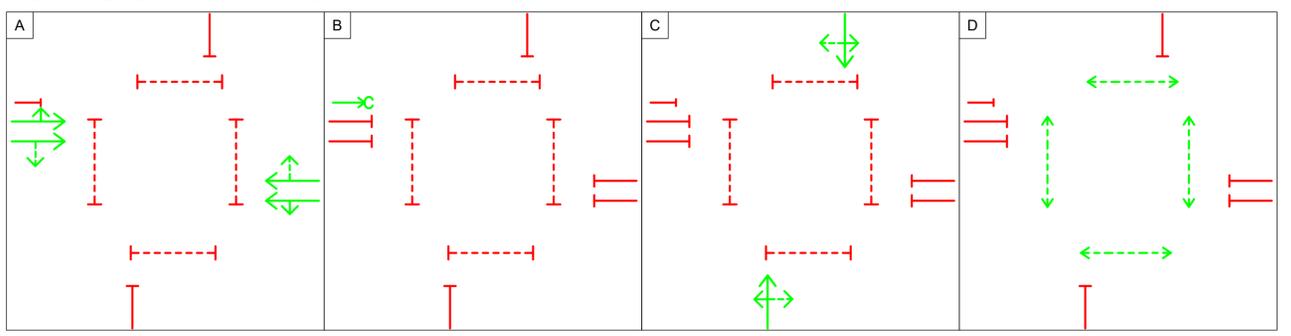
GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



INDICATIVE METHOD OF CONTROL



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2023	FM	IL	HOS	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **Jacobs**

Date: 06/04/2023 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: FM | Checked: IL | Approved: HOS

Project Code: BCIDB | Originator Code: JAC | QMS Code:

Programme Title: **BUSCONNECTS DUBLIN**
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title: **SWORDS TO CITY CENTRE CORE BUS CORRIDOR SCHEME**
JUNCTION SYSTEM DESIGN
SANTRY VILLAGE PEDESTRIAN CROSSING / COOLLOCK LANE-OAK AVE JUNCTION

Drawing File Name: BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0044	Sheet Number: 44 of 44	Status: A	Rev: M01
---	------------------------	-----------	----------

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

C:\pwworking\jacobs_uk_highways_ss4\legintl_mullank\d0144968\BCIDB-JAC-TSM_SJ-0002_XX_00-DR-TR-0031.dwg