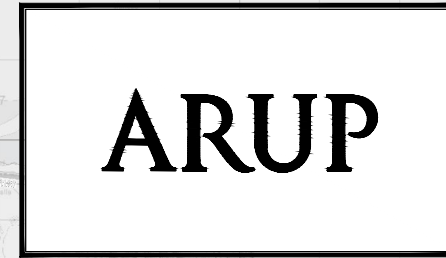




**Appendix B10**  
Junction Systems Design





# BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

## BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME

JUNCTION SYSTEMS DESIGN	
DRAWING SERIES NUMBER(S)	DRAWING SERIES DESCRIPTION
BCIDC-ARP-TSM_IX-0005_XX_00-DR-TR-0001	BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. COVER SHEET
BCIDC-ARP-TSM_KP-0005_XX_00-DR-TR-0001	BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. KEY PLAN
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0001 to 0047	BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN

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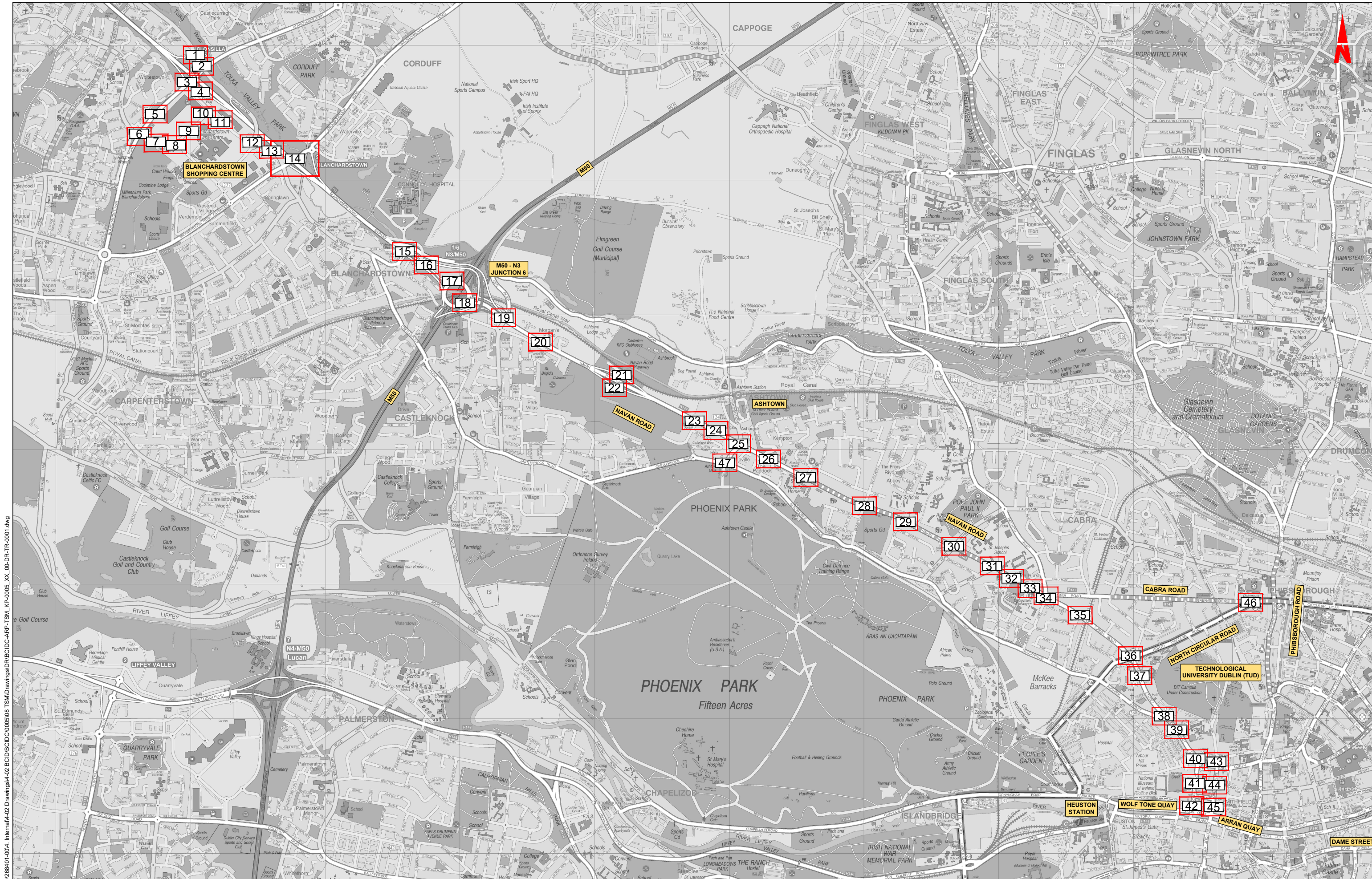
Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	BM	GE	BD	ISSUE FOR PHASE 4: PLANNING

 Date: 04/04/2022 Project Code: BCIDC		 Engineering Designer: ARUP Scale: N/A @ A1 / N/A @ A3 Originator Code: ARP		Drawn: BM Checked: GE Approved: BD	OMS Code: 268401-00
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<b>Programme Title</b> BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
<b>Drawing Title</b> BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN COVER SHEET			
<b>Drawing File Name</b> BCIDC-ARP-TSM_IX-0005_XX_00-DR-TR-0001	<b>Sheet Number</b> 01 of 01	<b>Status</b> A	<b>Rev</b> M01

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M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 Scale: 1:12500 @ A1  
1:20000 @ A3

Project Code: BCIDC Originator Code: ARP

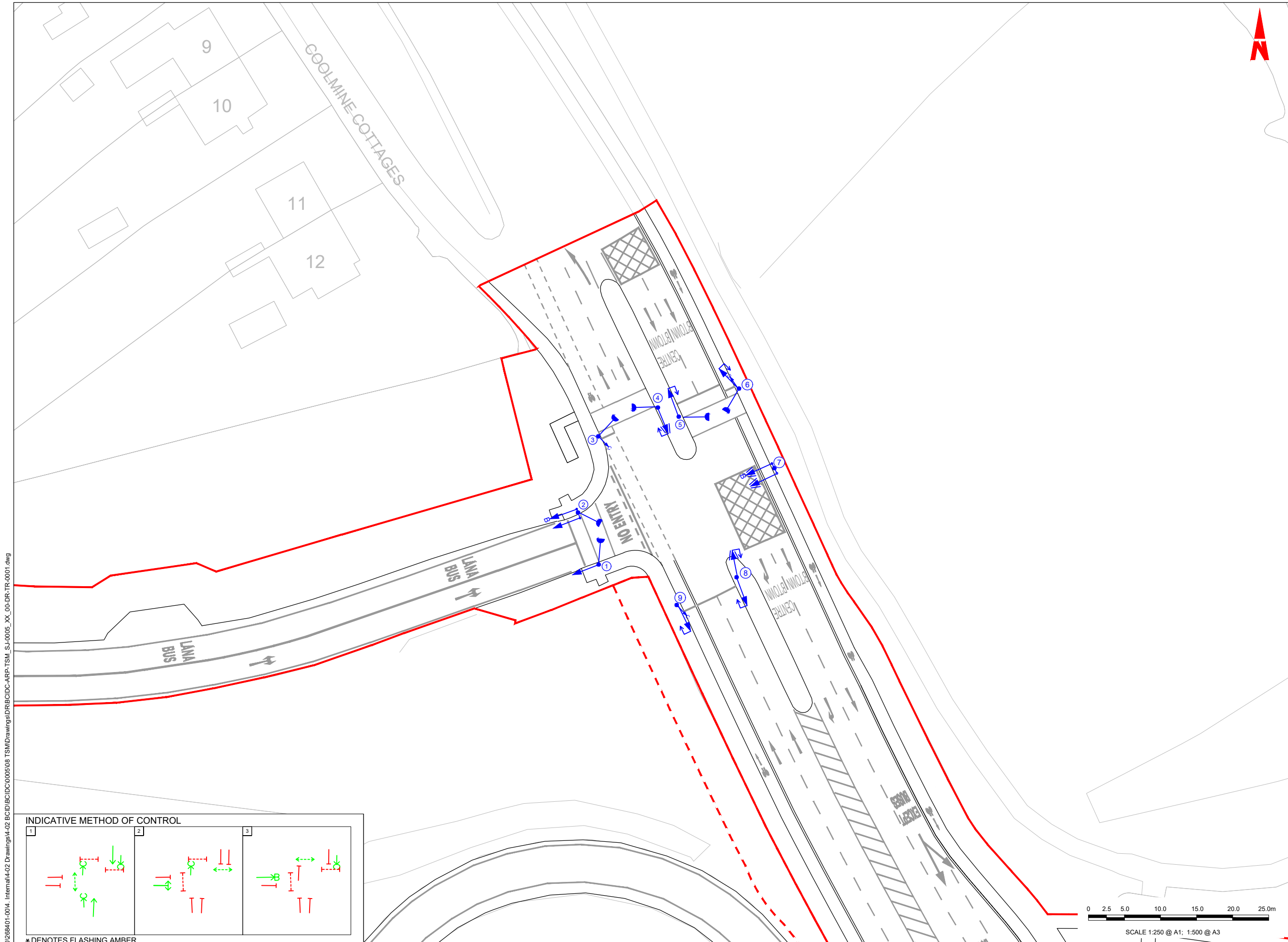
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OMS Code: 268401-00

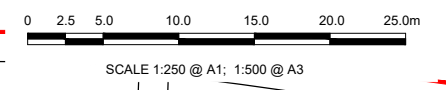
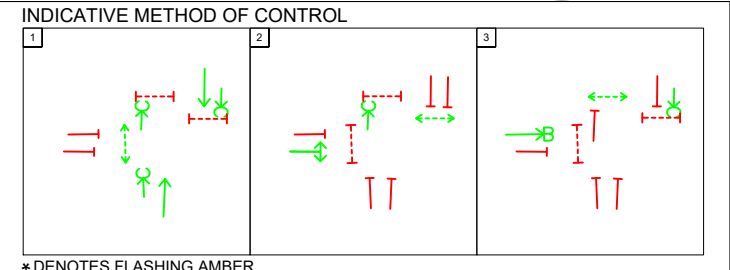
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Drawing Title	BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN KEY PLAN		
Drawing File Name	BCIDC-ARP-TSM_KP-0005_XX_00-DR-TR-0001	Sheet Number	01 of 01
Status	A	Rev	M01

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- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (B) PRIMARY
  - RTS 002 (B) SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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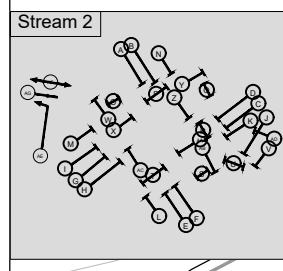
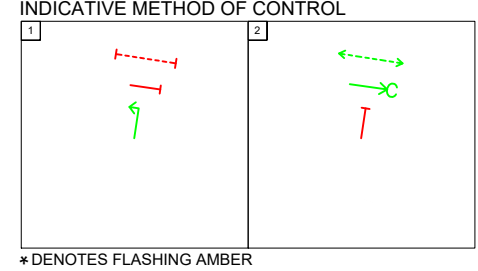
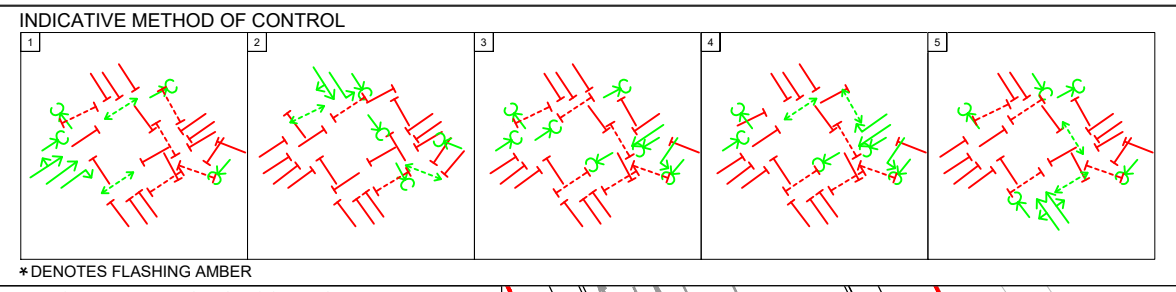
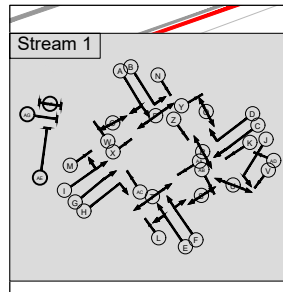
Client

Engineering Designer

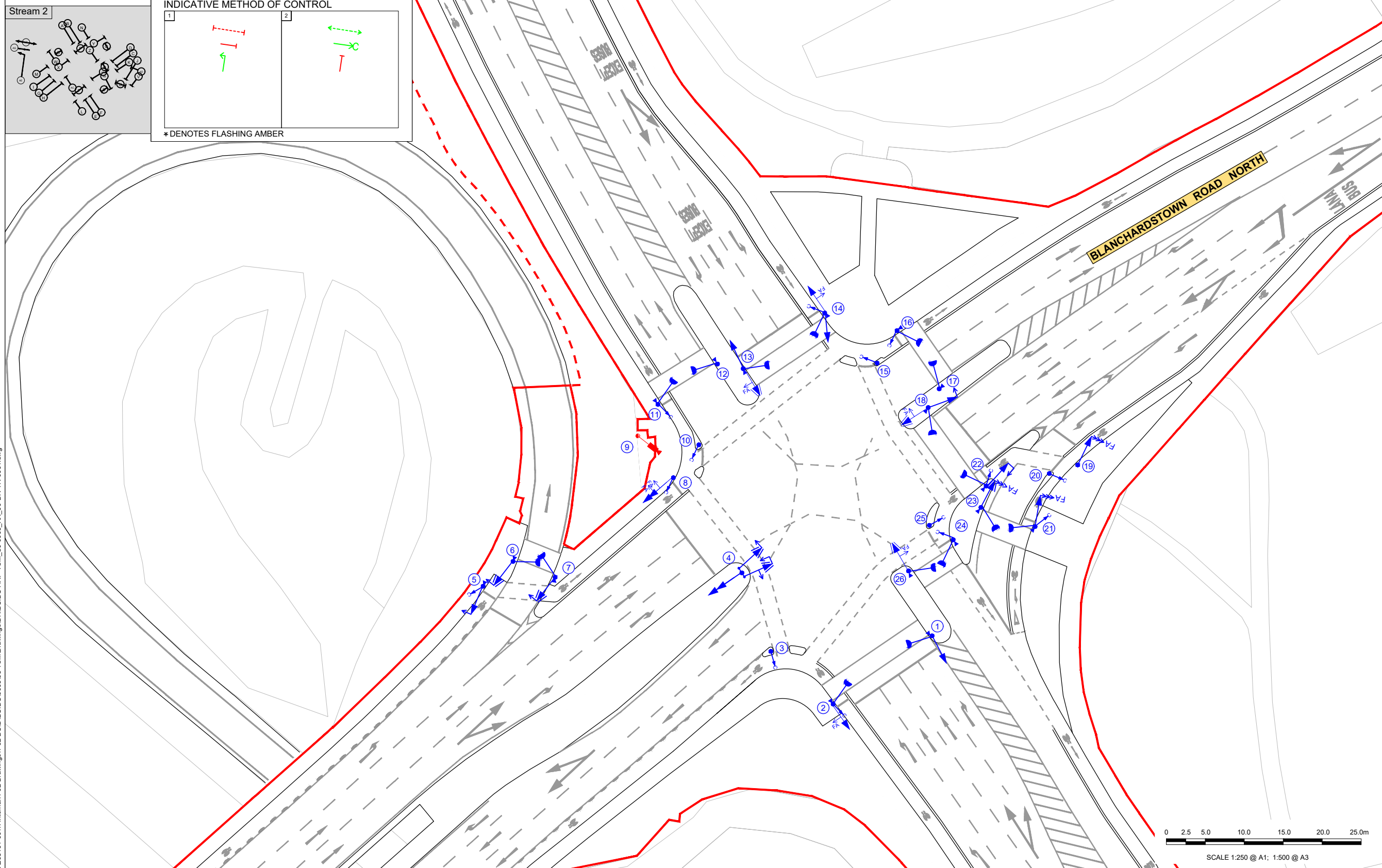
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		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		OLD NAVAN ROAD / MULHUDDART SLIP ROAD		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0001	01 of 47	A	M01	

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- LEGEND:**
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- RTS 001 PRIMARY
  - RTS 002 (B) PRIMARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 003 (J) SECONDARY
  - RTS 004 (A) PRIMARY
  - RTS 004 (A) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
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Client: **NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

Engineering Designer: **ARUP**

Date: 04/04/2022  
Scale: 1:250 @ A1  
1:500 @ A3

Project Code: BCIDC  
Originator Code: ARP

QMS Code: 268401-00

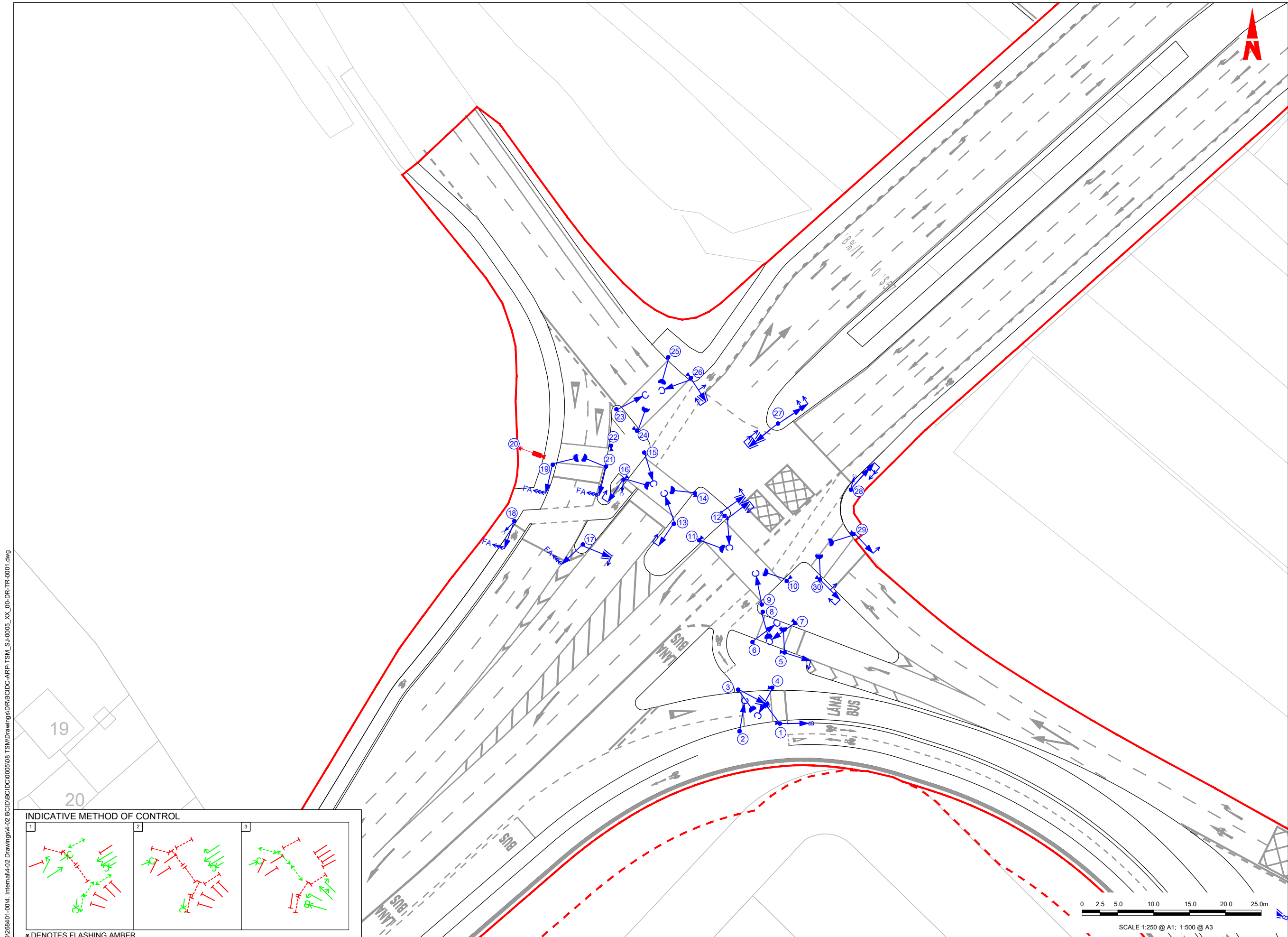
Drawn	Checked	Approved
GMcT	GE	BD

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CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: <b>BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME</b>			
JUNCTION SYSTEMS DESIGN			
BLANCHARDSTOWN ROAD NORTH / OLD NAVAN ROAD			
Drawing File Name	Sheet Number	Status	Rev
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0002	02 of 47	A	M01

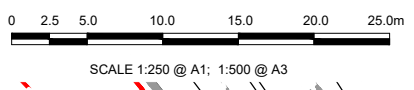
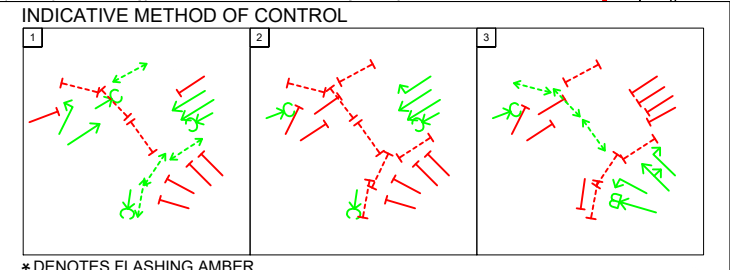
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  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 003 (J) PRIMARY
  - RTS 003 (J) SECONDARY
  - RTS 004 (A) PRIMARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE NUMBER
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

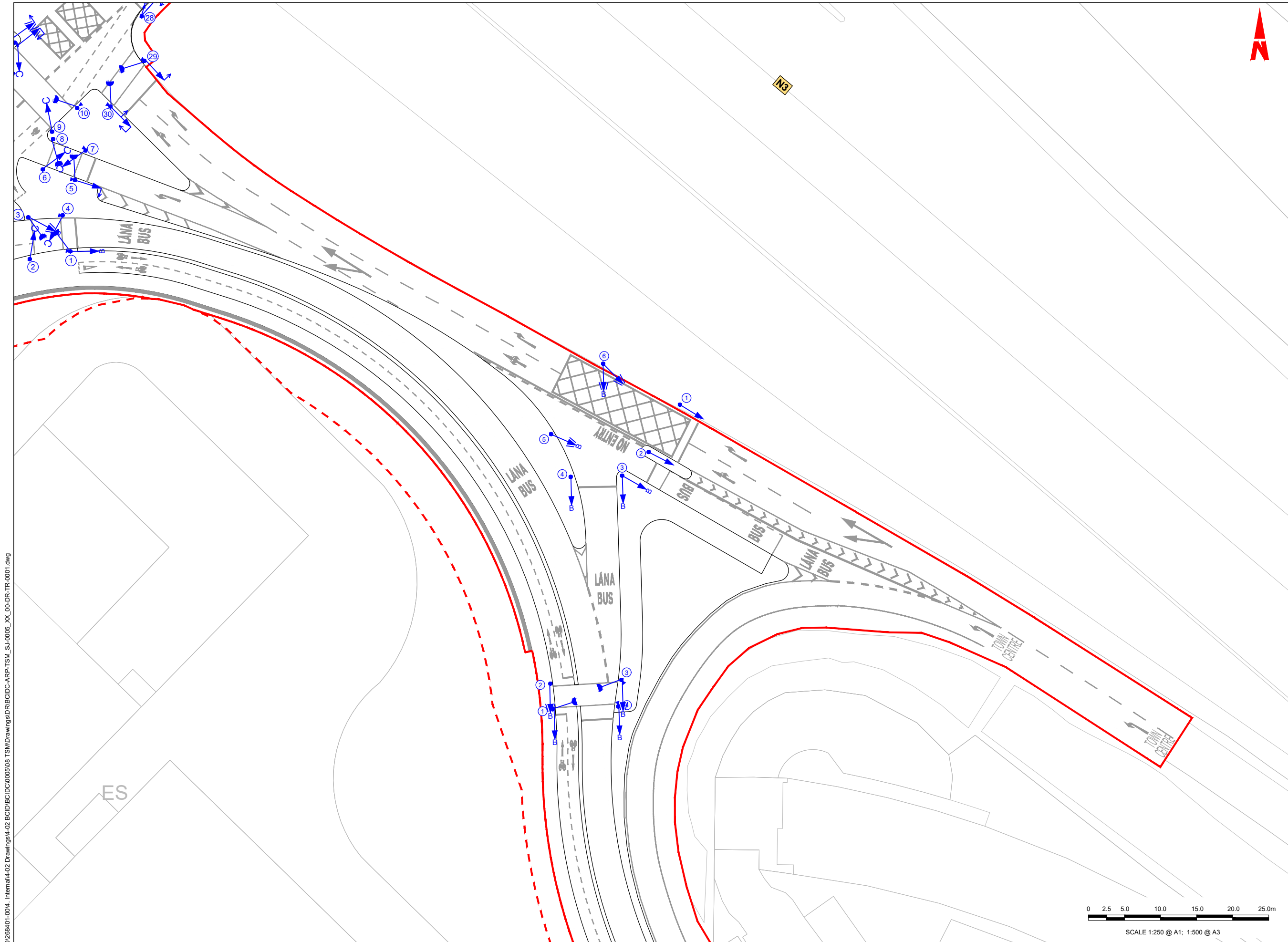
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Drawing Title: BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME  
JUNCTION SYSTEMS DESIGN  
BLANCHARDSTOWN ROAD SOUTH / N3 OFF-SLIP

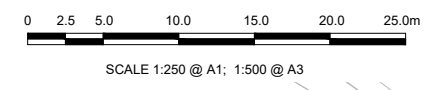
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- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - PUSH BUTTON UNIT
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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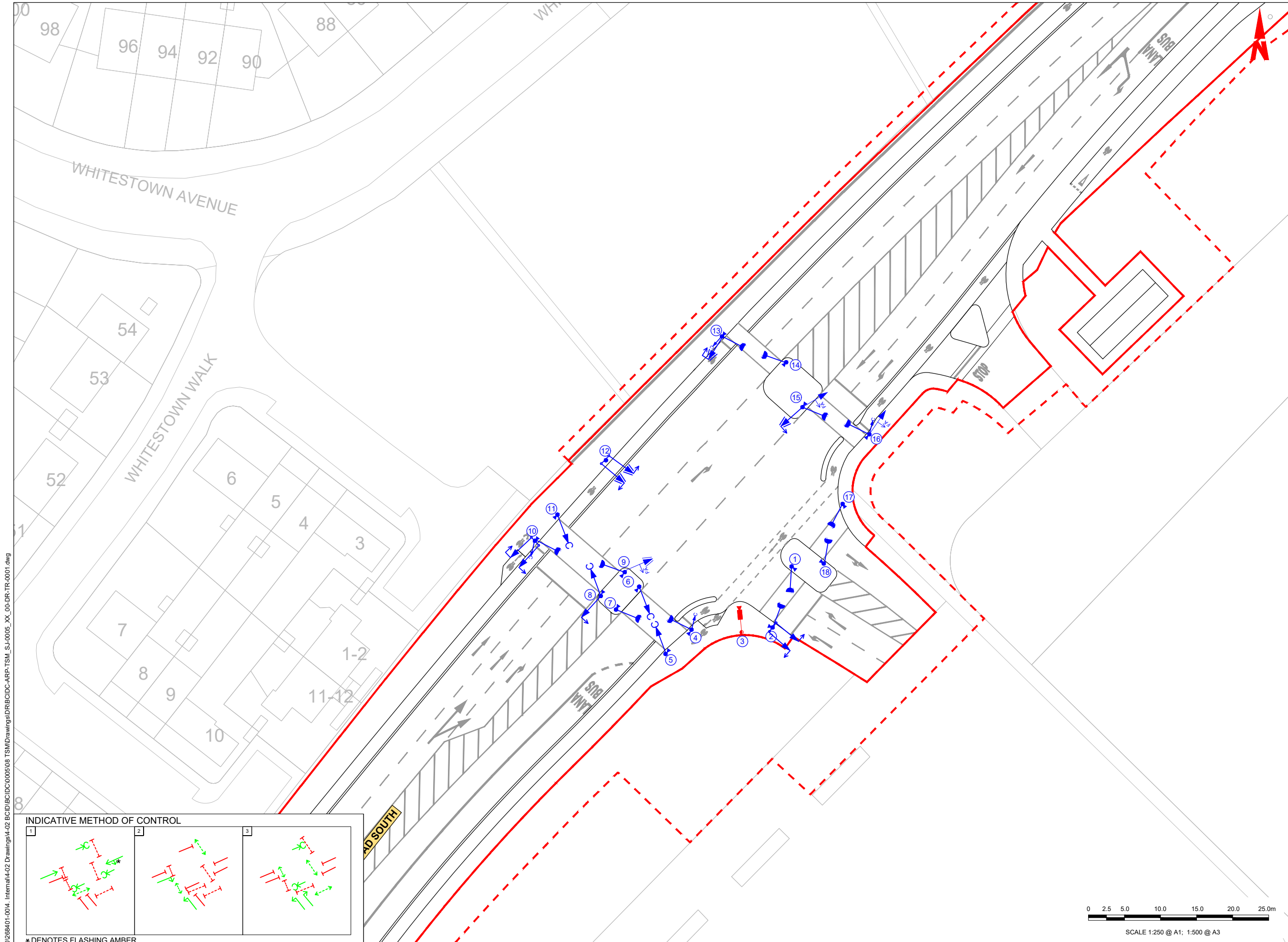
Client

Engineering Designer

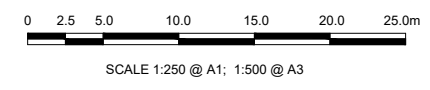
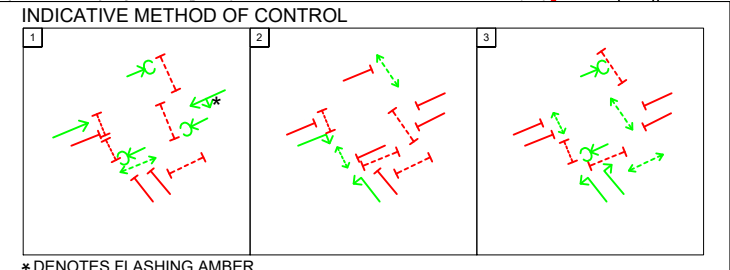
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Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
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Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0004	04 of 47	A	M01	

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  - RTS 002 (A) SECONDARY
  - RTS 002 (B) PRIMARY
  - RTS 002 (B) SECONDARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GmCt	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

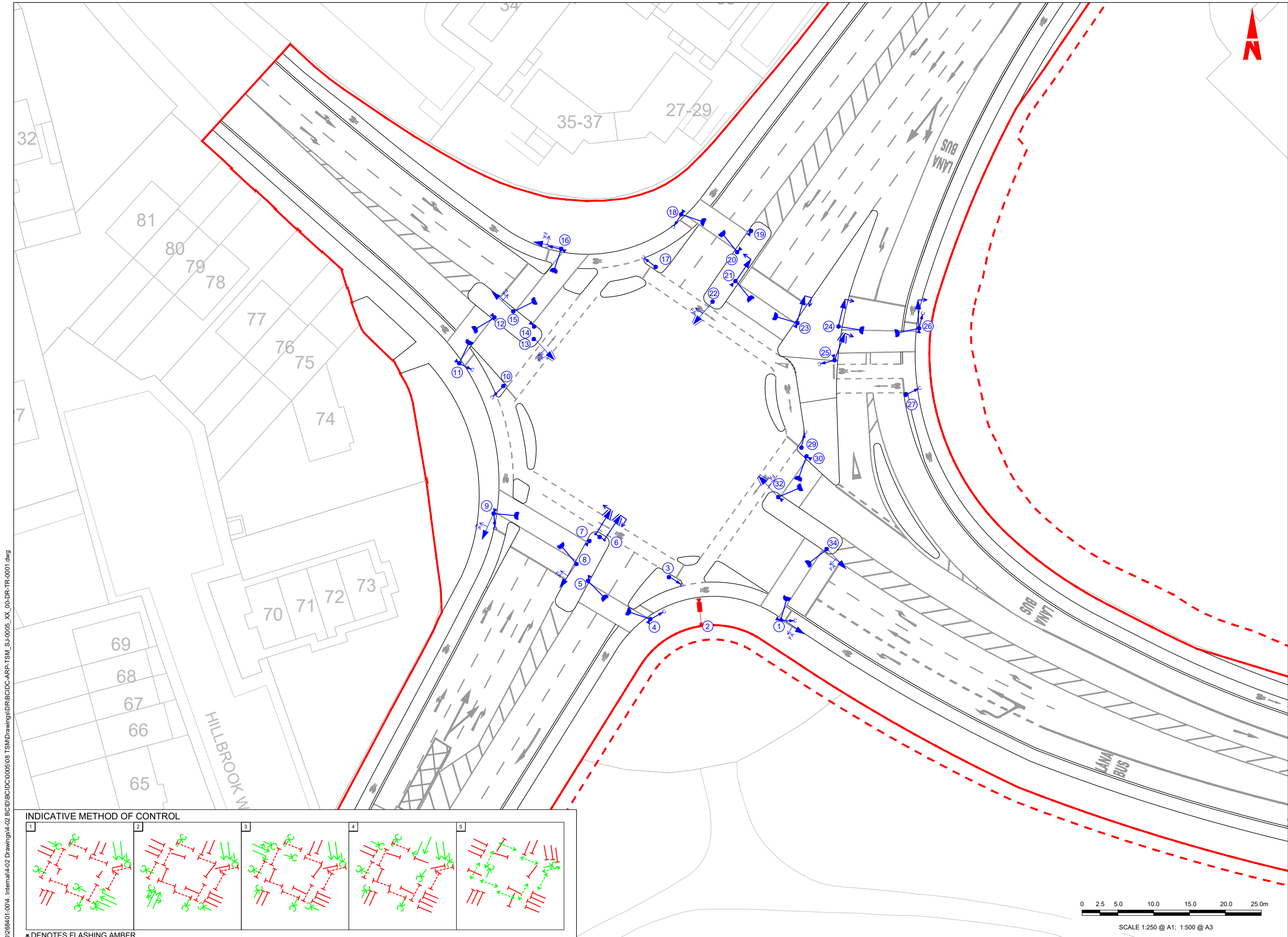
Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		BLANCHARDSTOWN ROAD SOUTH / SHOPPING CENTRE CAR PARK		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0005	05 of 47	A	M01	

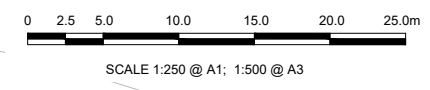
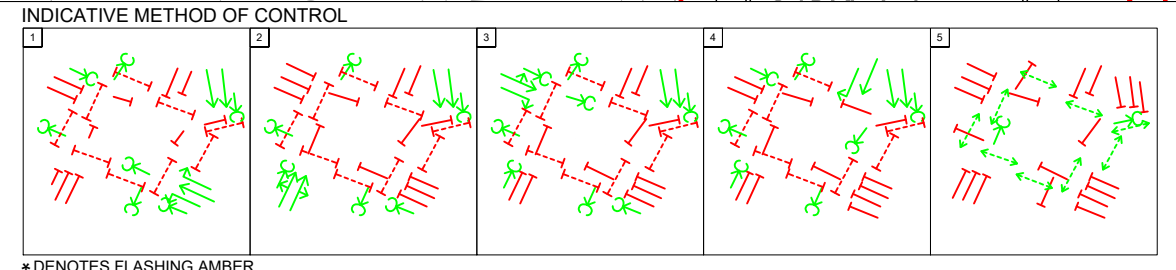
DO NOT SCALE USE FIGURED DIMENSIONS ONLY

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 002 (A) PRIMARY
  - RTS 002 (A) SECONDARY
  - RTS 002 (B) PRIMARY
  - RTS 002 (B) SECONDARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

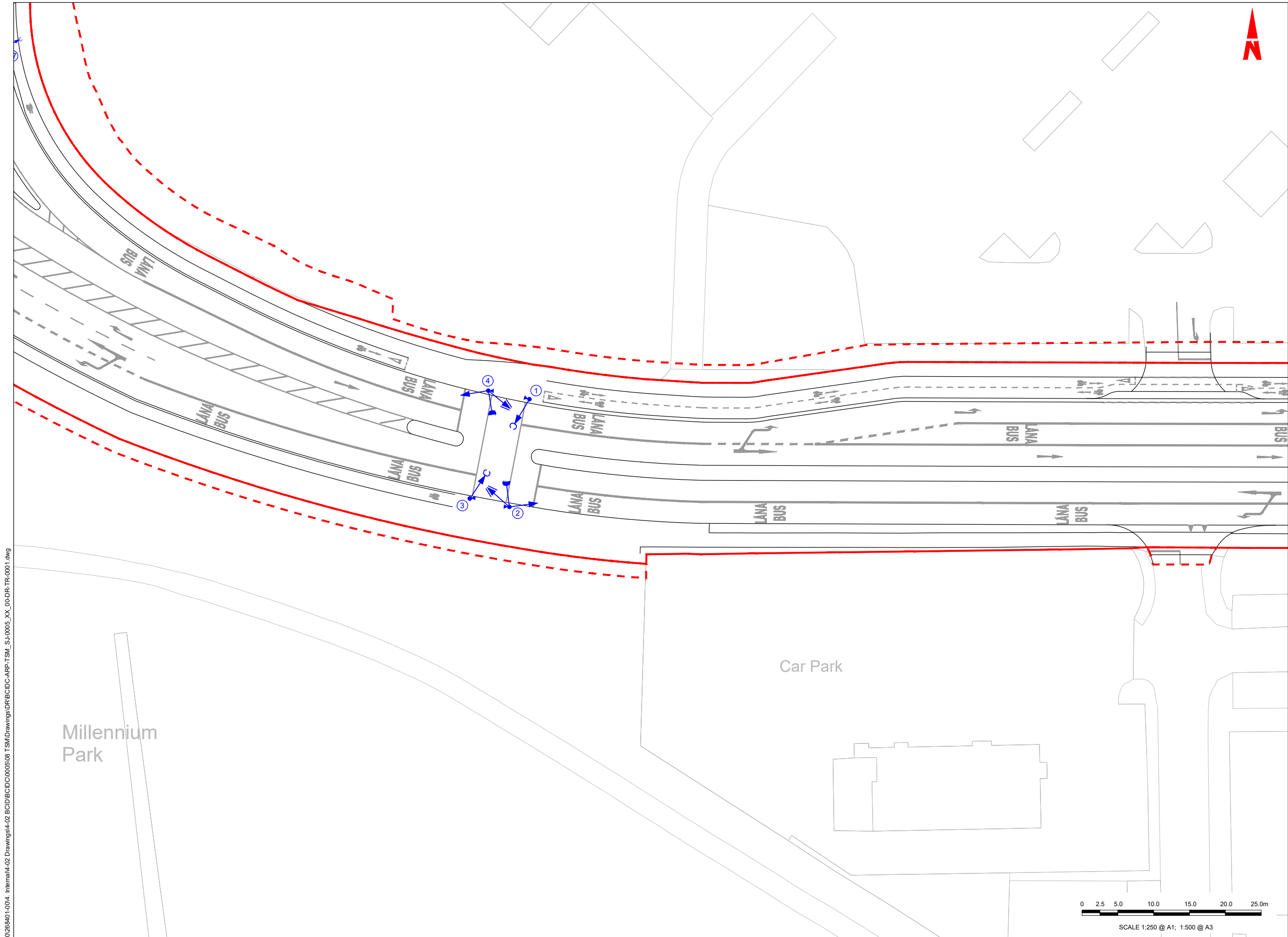
Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN BLANCHARDSTOWN ROAD SOUTH / BLAKESTOWN WAY**

Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0006	Sheet Number: 06 of 47	Status: A	Rev: M01
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**TRAFFIC SIGNAL HEADS:**

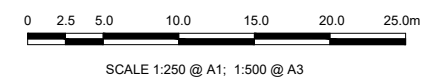
- RTS 001 PRIMARY
- RTS 001 SECONDARY
- RTS 007 (HIGH LEVEL) PRIMARY
- RPC 004 PEDESTRIAN HEAD

**TRAFFIC SIGNAL EQUIPMENT:**

- POLE (STANDARD HEIGHT)
- PUSH BUTTON UNIT
- POLE NUMBER

**GENERAL:**

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

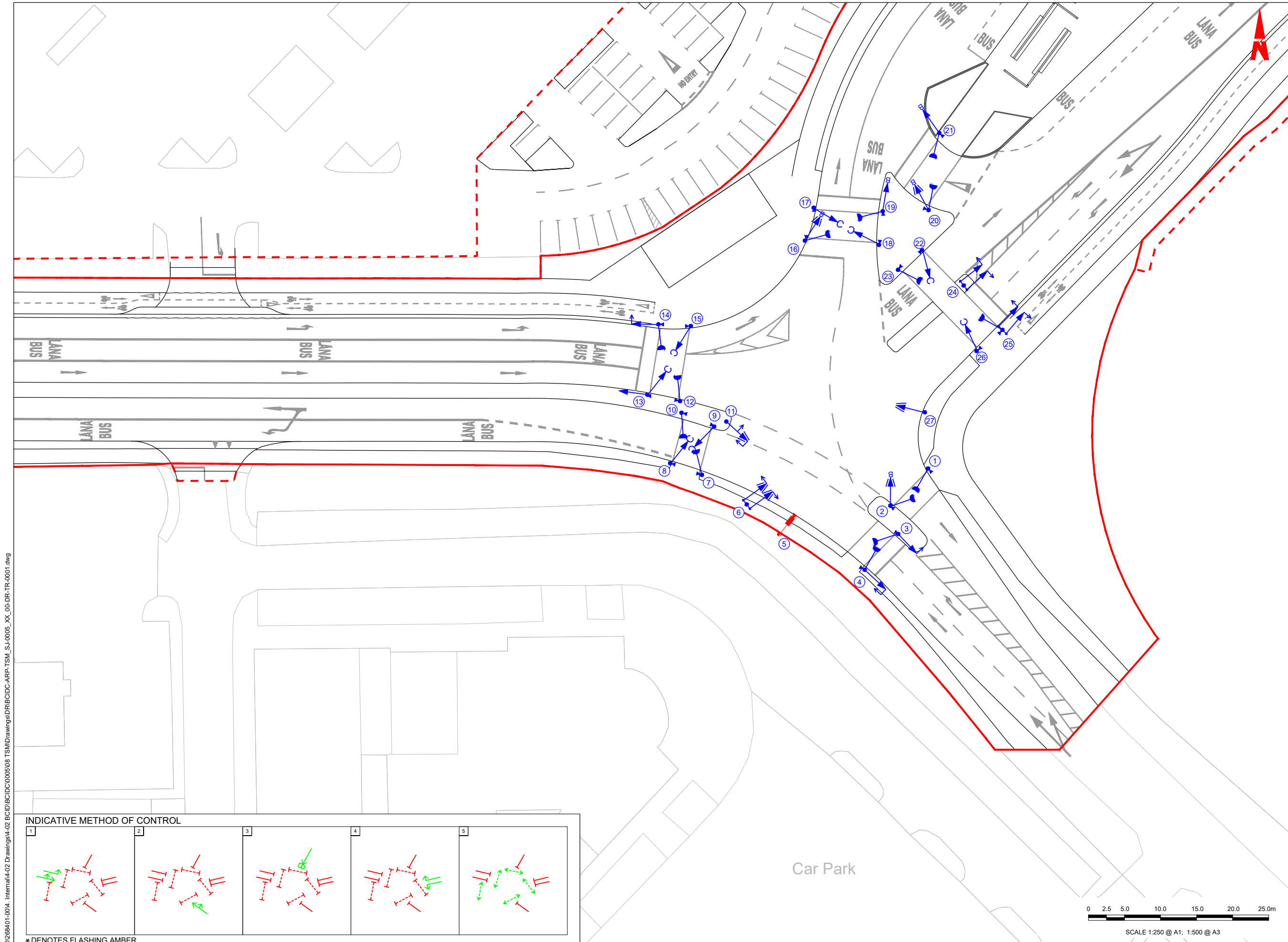
Programme Title: **BUSCONNECTS DUBLIN**  
**CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME**  
**JUNCTION SYSTEMS DESIGN**  
**MILLENNIUM PARK PEDESTRIAN CROSSING**

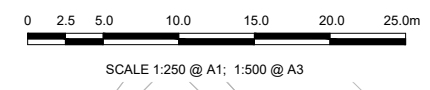
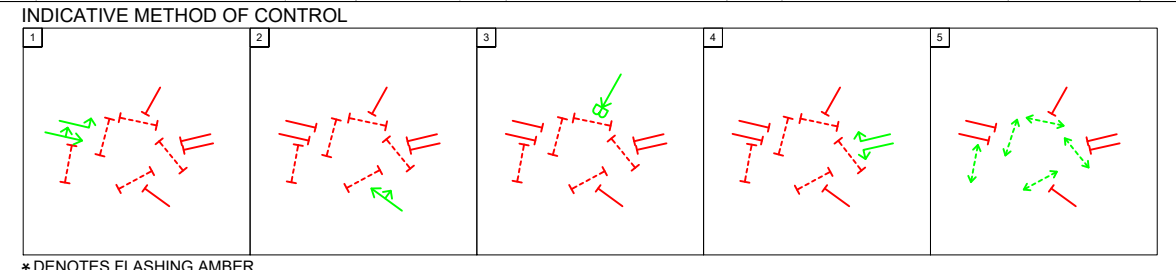
Drawing File Name: BCIDC-ARP-TSM\_SJ-0005\_XX\_00-DR-TR-0007 | Sheet Number: 07 of 47 | Status: A | Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (B) PRIMARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 003 (J) SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE NUMBER
  - POLE (STANDARD HEIGHT)
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

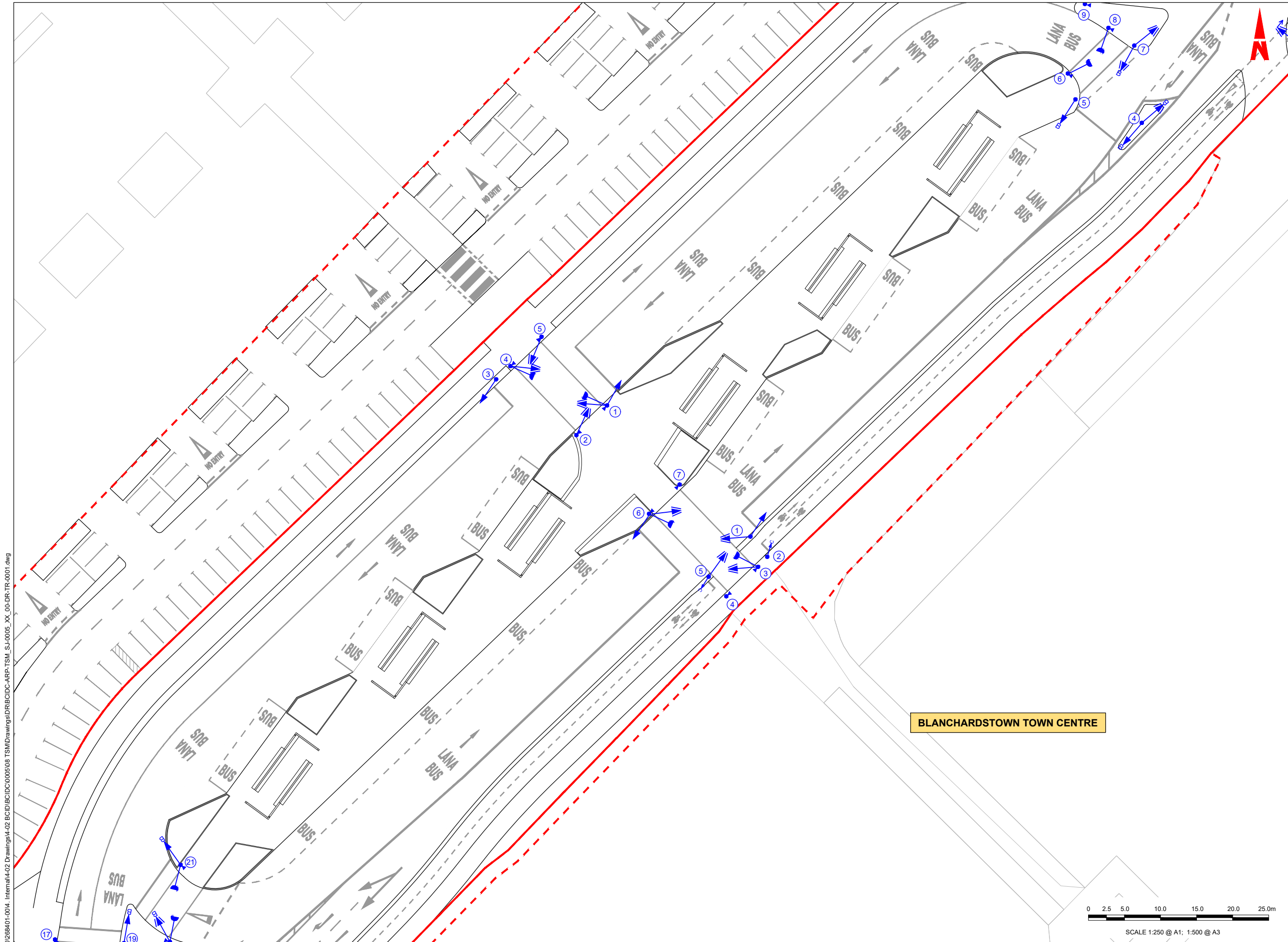
Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN BUS INTERCHANGE WESTERN ACCESS</b>			
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0008	Sheet Number: 08 of 47	Status: A	Rev: M01

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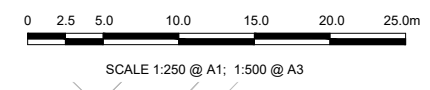
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
    - RTS 001 PRIMARY
    - RTS 001 SECONDARY
    - RTS 007 (LOW LEVEL) PRIMARY
    - RPC 004 PEDESTRIAN HEAD
  - TRAFFIC SIGNAL EQUIPMENT:**
    - PUSH BUTTON UNIT
    - POLE (STANDARD HEIGHT)
    - POLE NUMBER
  - GENERAL:**
    - SITE BOUNDARY LINE
    - TEMPORARY LAND ACQUISITION

**BLANCHARDSTOWN TOWN CENTRE**

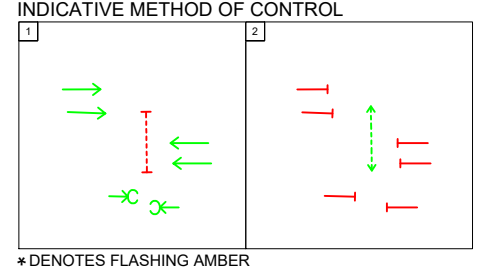
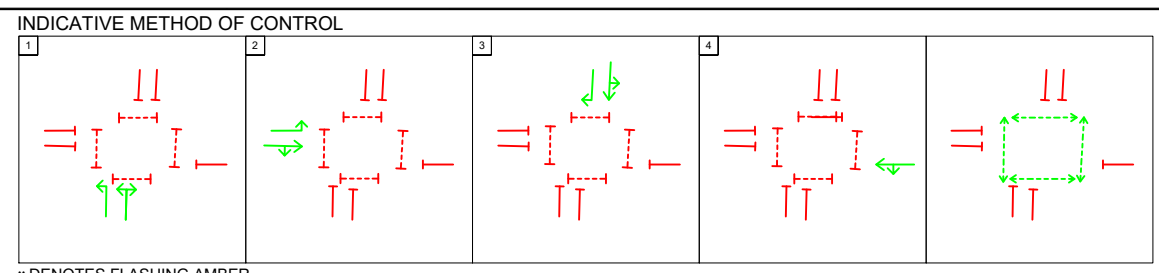
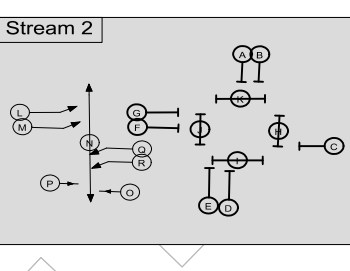
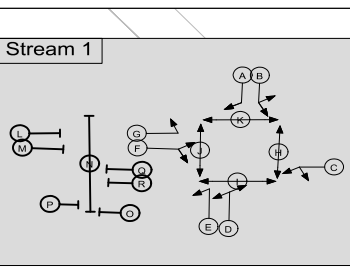


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	Rev	Date	Drn	Chk'd	App'd	Description		Client			Engineering Designer			Programme Title		
	M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING					<b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>					
								Date	Scale	Drawn	Checked	Approved	Drawing Title			
						04/04/2022	1:250 @ A1 1:500 @ A3	GMcT	GE	BD	BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN BLANCHARDSTOWN CENTRE PEDESTRIAN CROSSING					
						Project Code	Originator Code	OMS Code		Drawing File Name		Sheet Number	Status	Rev		
						BCIDC	ARP	268401-00		BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0009		09 of 47	A	M01		

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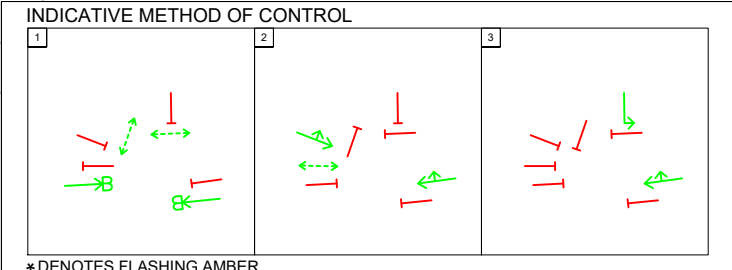
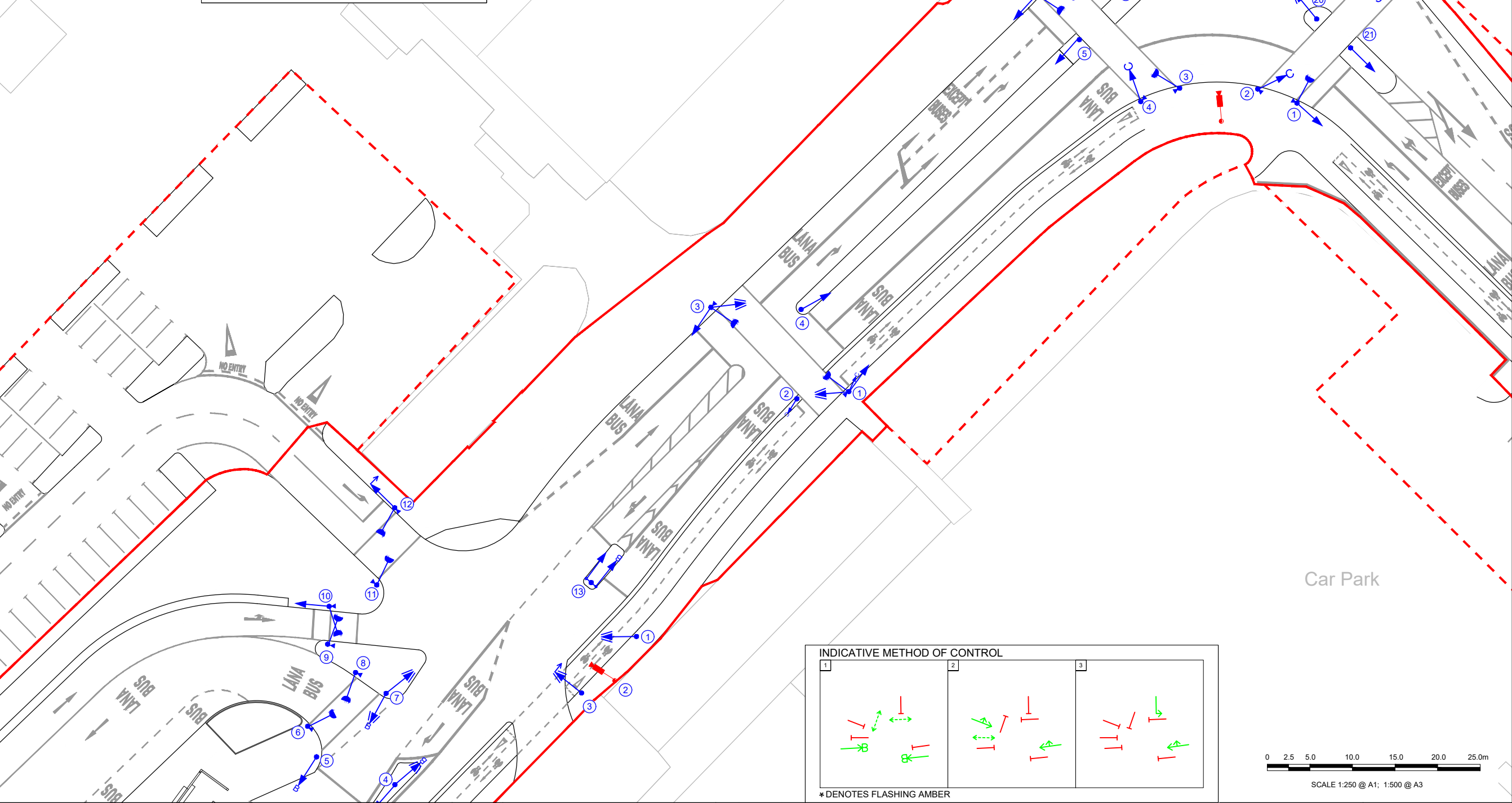
\global\europa\dublin\Jobs\2688000\26840-004-Internat4-02 Drawings\4-02 BCID\BCID\0005\08 TSM\Drawings\DRR\BCIDC-APP-TSM\_SJ-0005\_XX\_00-DR-TR-001.dwg



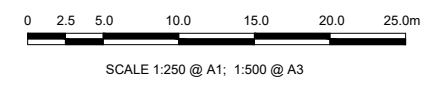
\* DENOTES FLASHING AMBER

\* DENOTES FLASHING AMBER

- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
    - RTS 001 PRIMARY
    - RTS 001 SECONDARY
    - RTS 007 (HIGH LEVEL) PRIMARY
    - RTS 007 (LOW LEVEL) PRIMARY
    - RPC 004 PEDESTRIAN HEAD
  - TRAFFIC SIGNAL EQUIPMENT:**
    - PUSH BUTTON UNIT
    - POLE (STANDARD HEIGHT)
    - POLE NUMBER
    - PAN / TILT / ZOOM CCTV CAMERA
    - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - GENERAL:**
    - SITE BOUNDARY LINE
    - TEMPORARY LAND ACQUISITION



\* DENOTES FLASHING AMBER



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**Project Ireland 2040**  
 Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Date: 04/04/2022  
 Scale: 1:250 @ A1, 1:500 @ A3

Project Code: BCIDC  
 Originator Code: ARP

Engineering Designer: **ARUP**

Drawn: GMcT  
 Checked: GE  
 Approved: BD

OMS Code: 268401-00

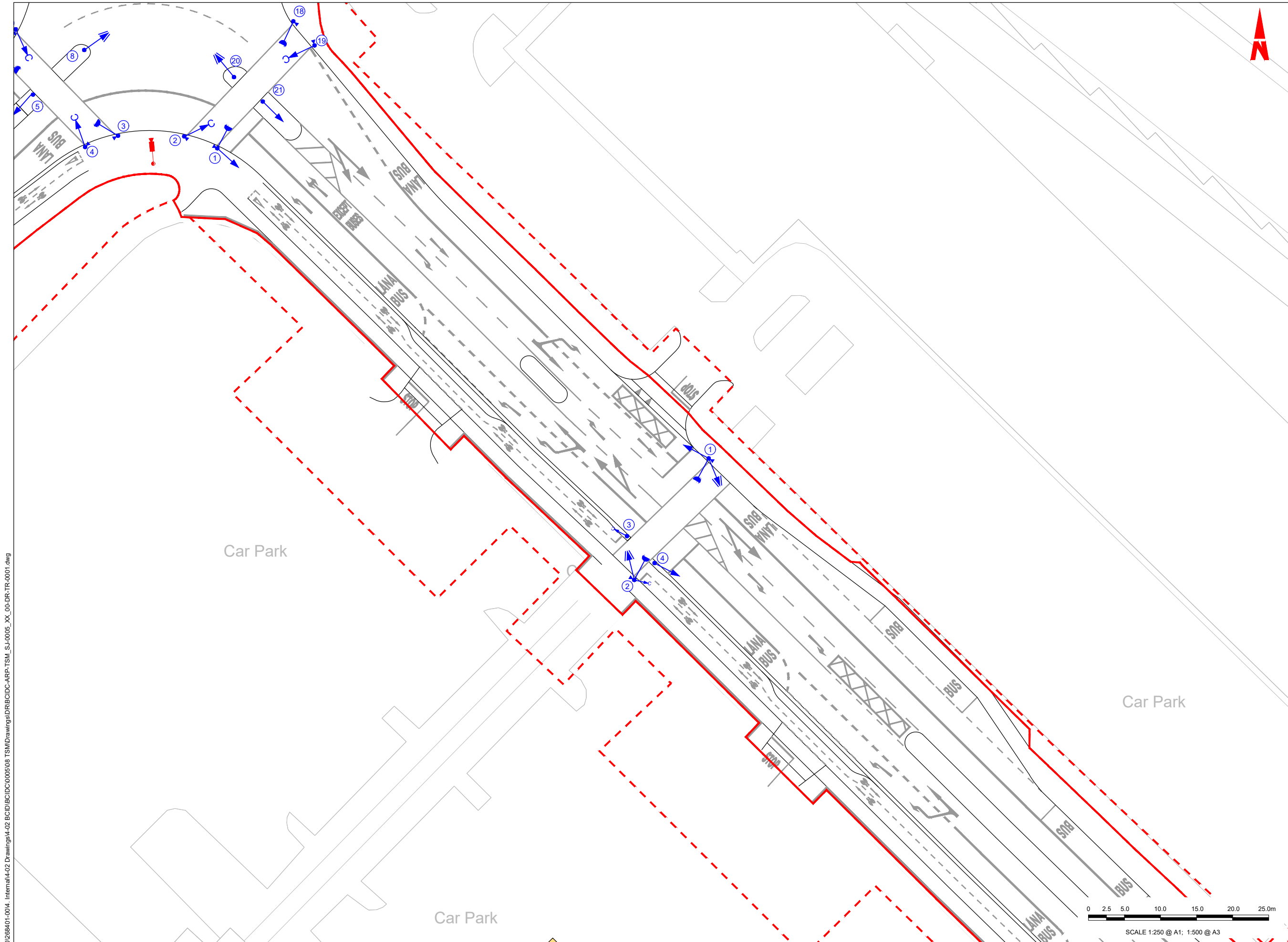
Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN BUS INTERCHANGE EASTERN ACCESS & CROWNE PLAZA**

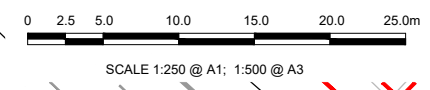
Drawing File Name: BCIDC-APP-TSM\_SJ-0005\_XX\_00-DR-TR-0010  
 Sheet Number: 10 of 47  
 Status: A  
 Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - ⊗ POLE NUMBER
  - ⊕ PUSH BUTTON UNIT
- GENERAL:**
- SITE BOUNDARY LINE
  - - - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

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

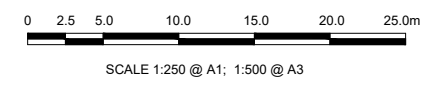
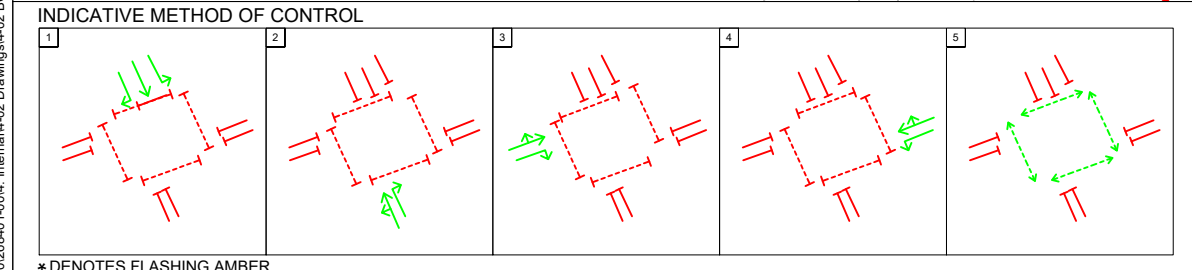
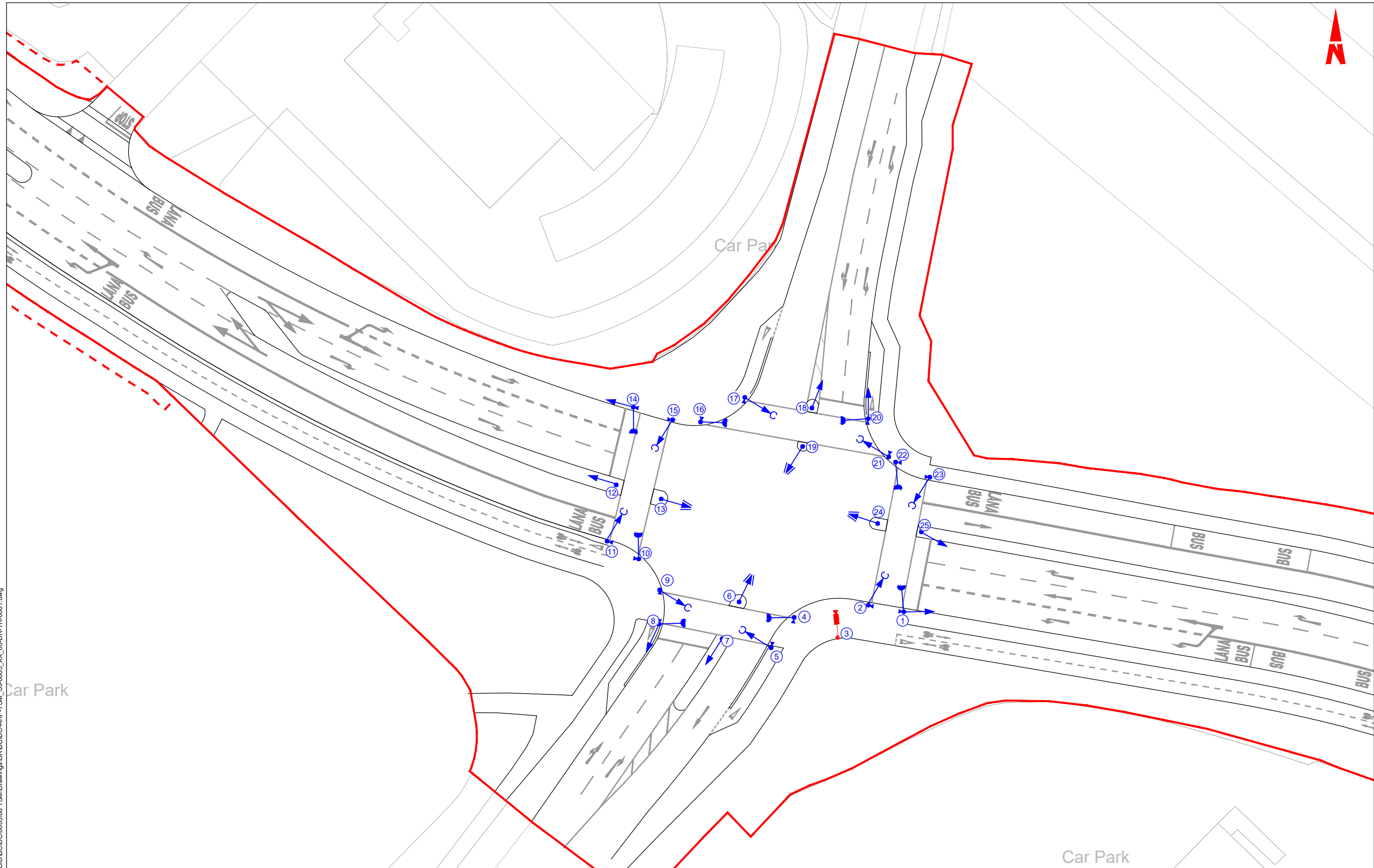
Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME**  
**JUNCTION SYSTEMS DESIGN**  
**BAIE BARS BLANCHARDSTOWN PEDESTRIAN CROSSING**

Drawing File Name: BCIDC-ARP-TSM\_SJ-0005\_XX\_00-DR-TR-0011 | Sheet Number: 11 of 47 | Status: A | Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>	
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>	
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME	
		JUNCTION SYSTEMS DESIGN	
		L3020 / LIBERTY INSURANCE	
Drawing File Name	Sheet Number	Status	Rev
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0012	12 of 47	A	M01

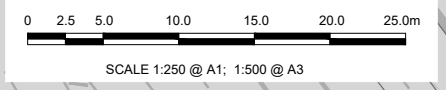
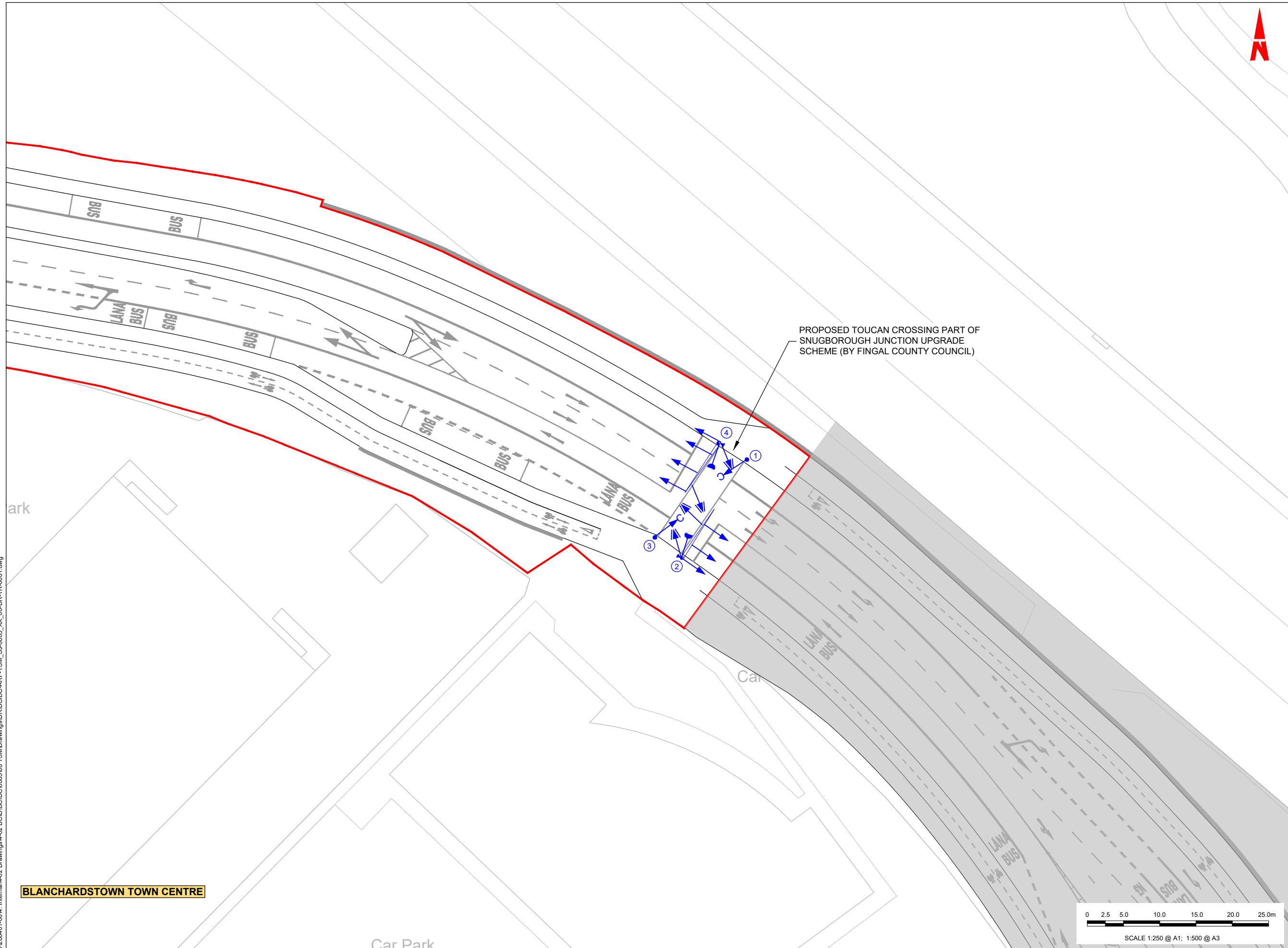
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE NUMBER
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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**Project Ireland 2040**  
 Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

**Client**  
  
 Údarás Náisiúnta Iompair  
 National Transport Authority

**Engineering Designer**

Date: 04/04/2022  
 Scale: 1:250 @ A1, 1:500 @ A3  
 Project Code: BCIDC  
 Originator Code: ARP  
 OMS Code: 268401-00

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

**Drawing Title**  
 BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME  
 JUNCTION SYSTEMS DESIGN  
 L3020 PEDESTRIAN CROSSING

Drawing File Name	Sheet Number	Status	Rev
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0013	13 of 47	A	M01

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PROPOSED TOUCAN CROSSING PART OF  
SNUGBOROUGH JUNCTION UPGRADE  
SCHEME (BY FINGAL COUNTY COUNCIL)

SNUGBOROUGH  
JUNCTION UPGRADE  
SCHEME (BY FINGAL  
COUNTY COUNCIL)

River Tolka



SCALE 1:500 @ A1; 1:1000 @ A3

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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer  
**ARUP**

Date	04/04/2022	Scale	1:500 @ A1 1:1000 @ A3
Drawn	GMcT	Checked	GE
Approved	BD		

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

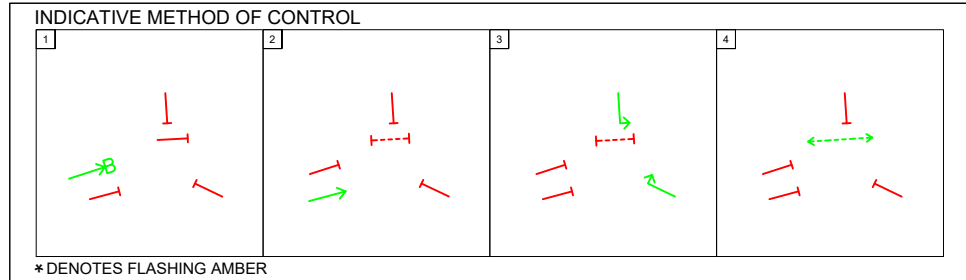
Drawing Title  
 BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME  
 JUNCTION SYSTEMS DESIGN  
 SNUGBOROUGH ROAD / L3020 & N3 (SOUTHBOUND ON-RAMP) & WATERVILLE ROAD

Drawing File Name  
 BCIDC-ARP-TSM\_SJ-0005\_XX\_00-DR-TR-0014

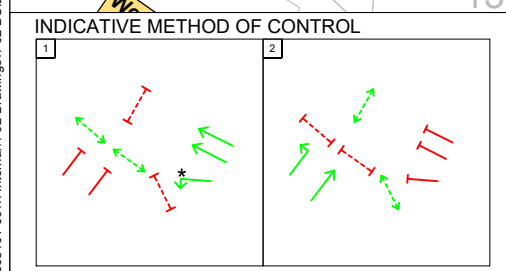
Sheet Number	14 of 47	Status	A	Rev	M01
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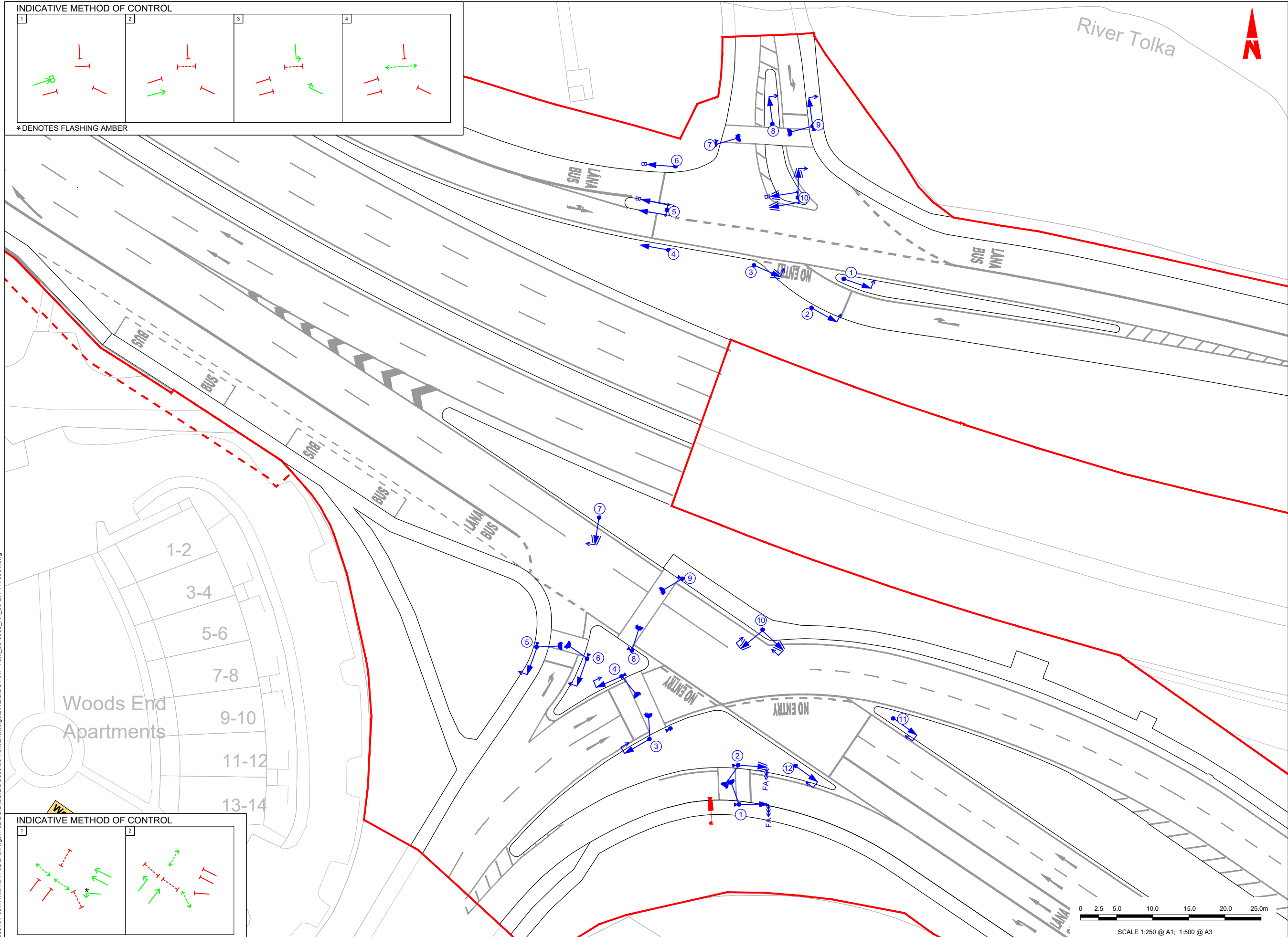




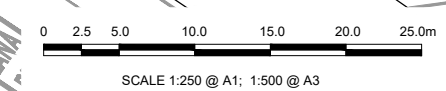
\* DENOTES FLASHING AMBER



\* DENOTES FLASHING AMBER



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (B) PRIMARY
  - RTS 002 (B) SECONDARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 004 (A) PRIMARY
  - RTS 004 (A) SECONDARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE NUMBER
  - POLE (STANDARD HEIGHT)
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

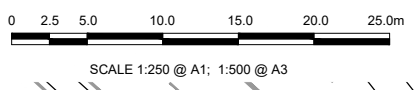
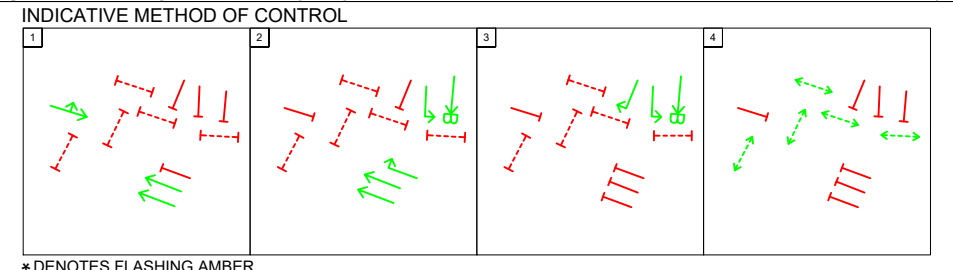
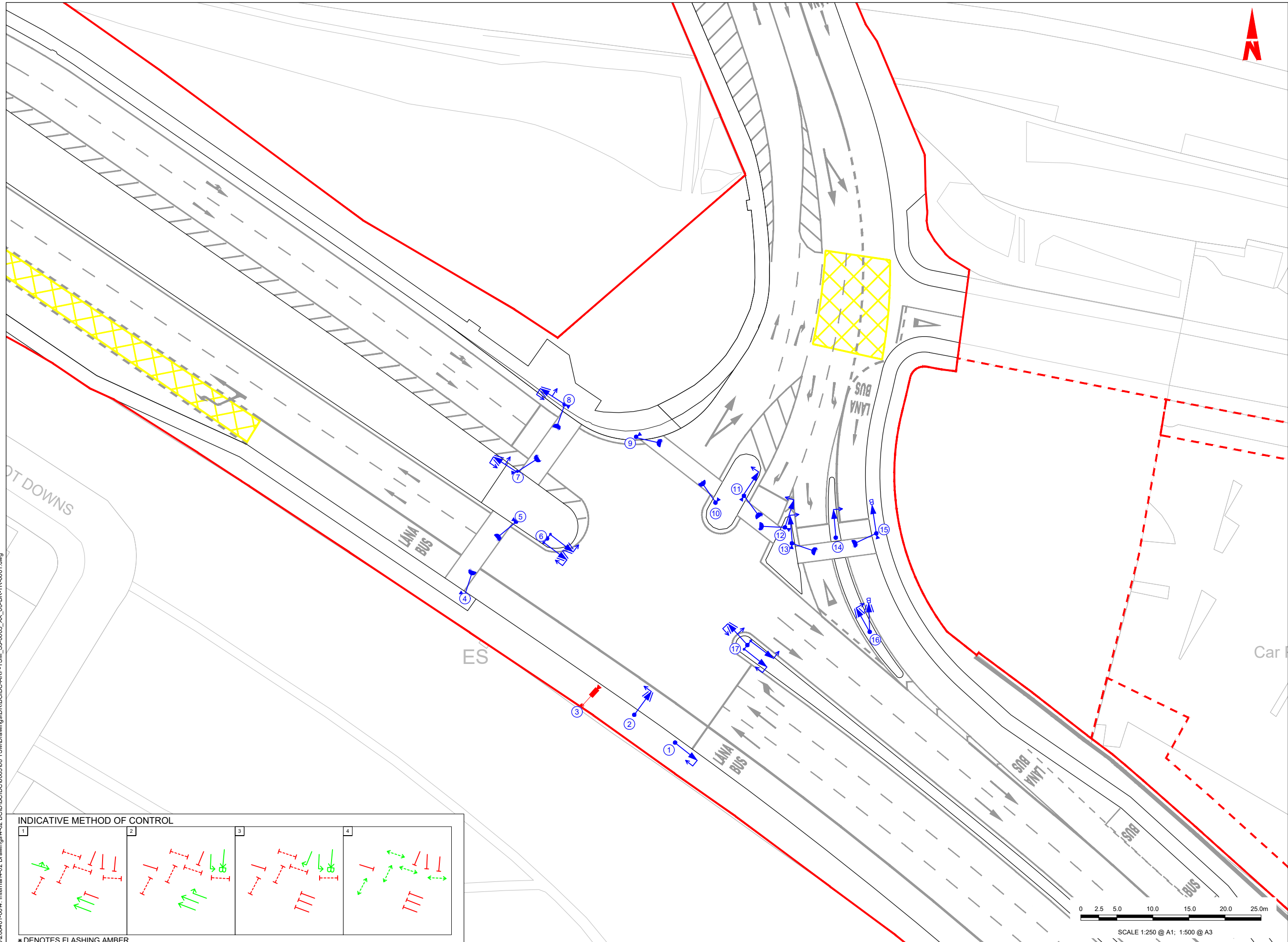
Engineering Designer

Programme Title			
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title			
BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN N3 EASTBOUND OFF-SLIP / CONNOLLY HOSPITAL ACCESS & NAVAN ROAD / OLD NAVAN ROAD			
Drawing File Name	Sheet Number	Status	Rev
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0015	15 of 47	A	M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 002 (B) PRIMARY
  - RTS 002 (B) SECONDARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 003 (H) SECONDARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

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

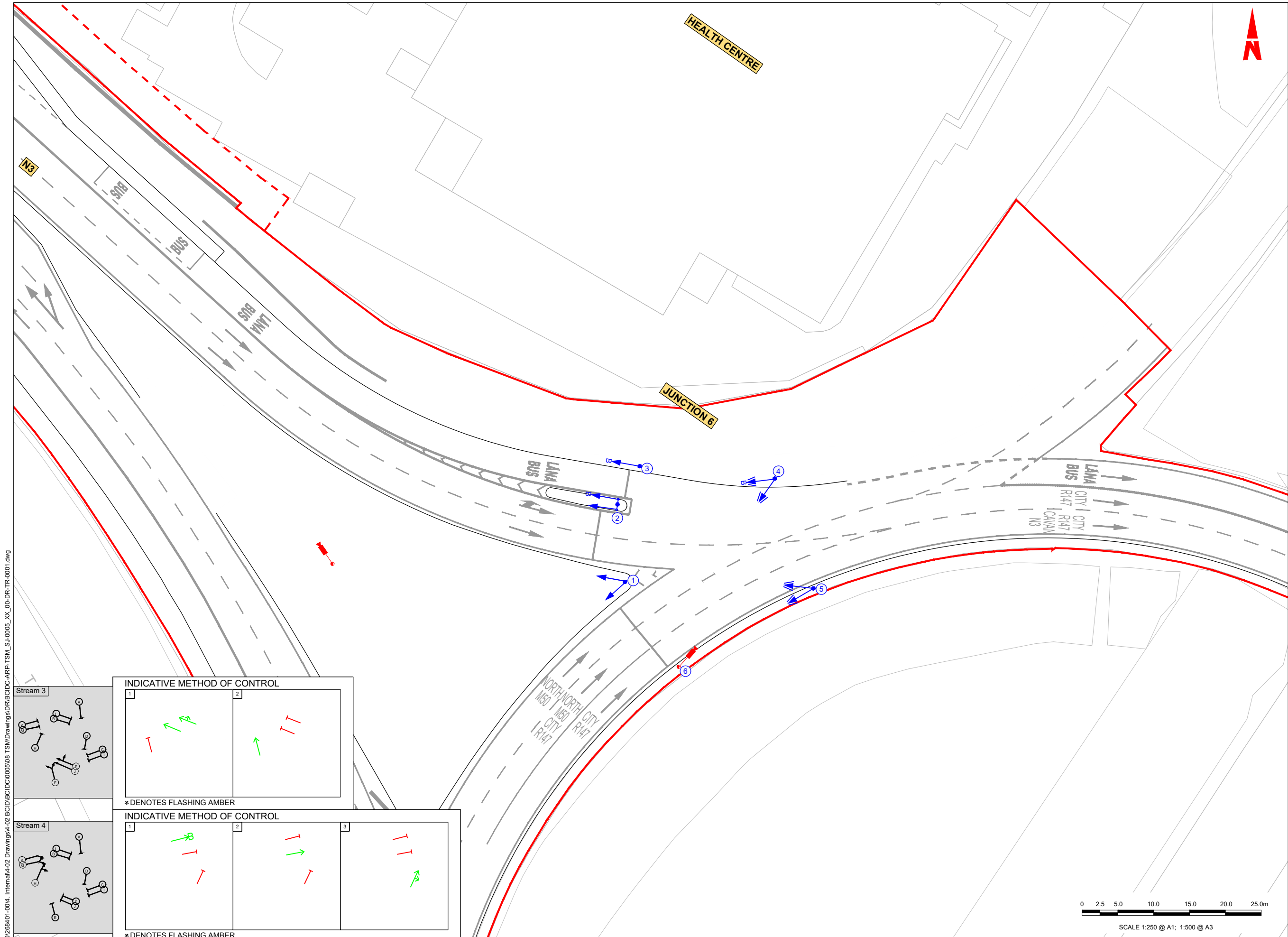
Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME**  
JUNCTION SYSTEMS DESIGN  
NAVAN ROAD / N3 EASTBOUND OFF-SLIP

Drawing File Name: BCIDC-ARP-TSM\_SJ-0005\_XX\_00-DR-TR-0016 | Sheet Number: 16 of 47 | Status: A | Rev: M01

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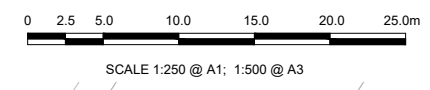
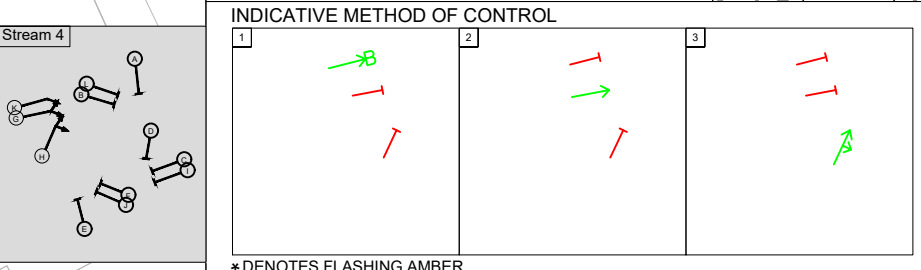
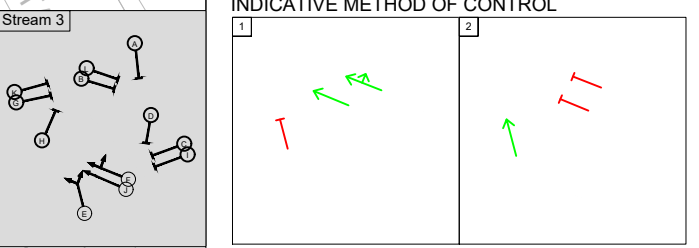




- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

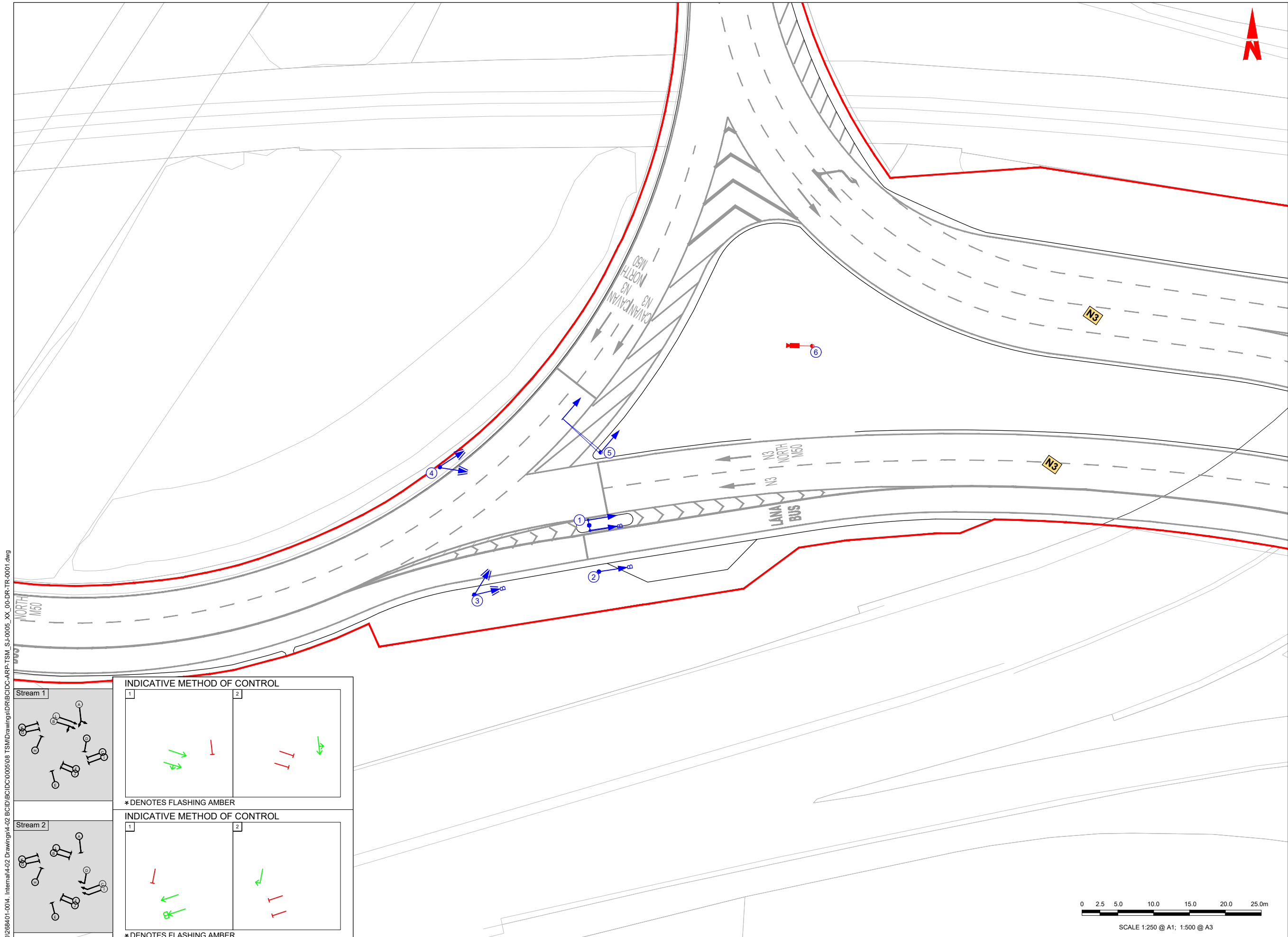
Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

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

Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN NAVAN ROAD / M50 JUNCTION 6**

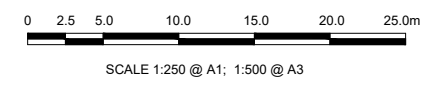
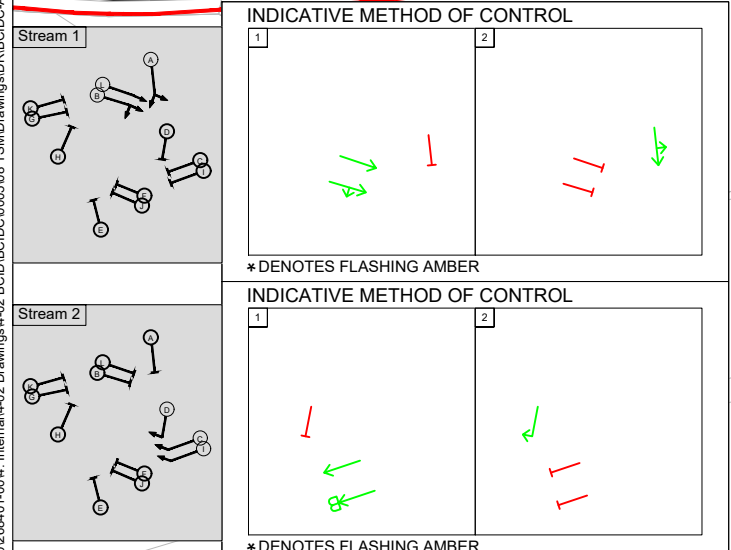
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0017	Sheet Number: 17 of 47	Status: A	Rev: M01
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION

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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

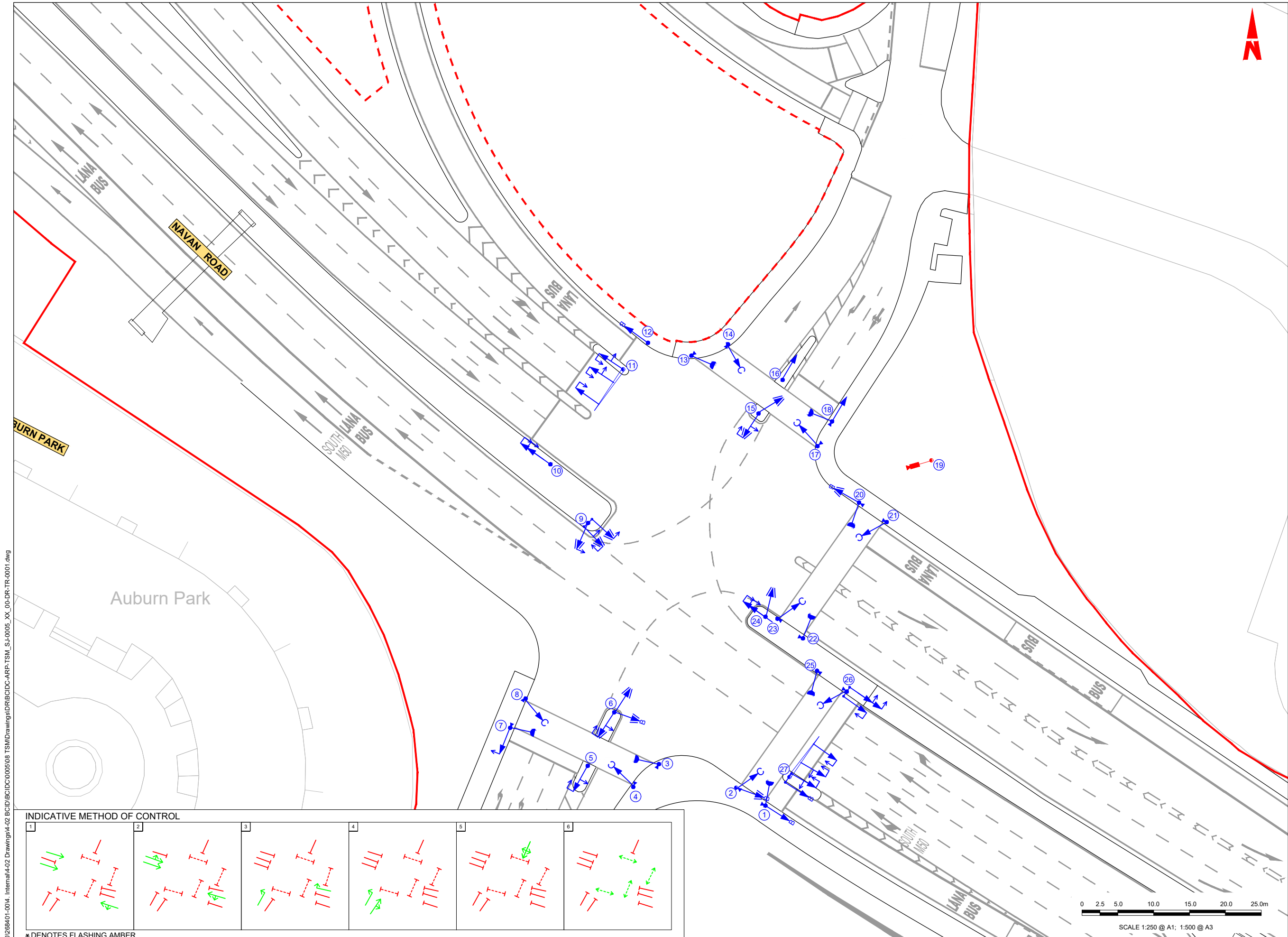
Client

Engineering Designer

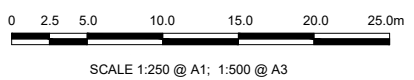
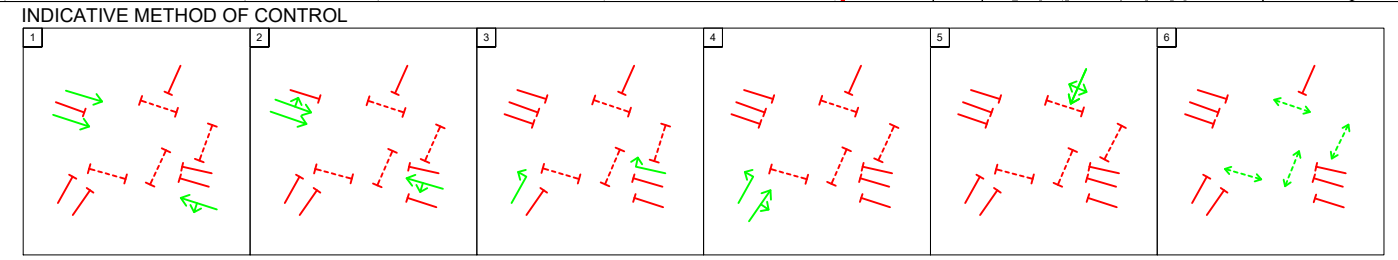
Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		NAVAN ROAD / M50 JUNCTION 6		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0018	18 of 47	A	M01	

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (B) PRIMARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 003 (J) PRIMARY
  - RTS 003 (J) SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (TRAFFIC SIGNALS)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

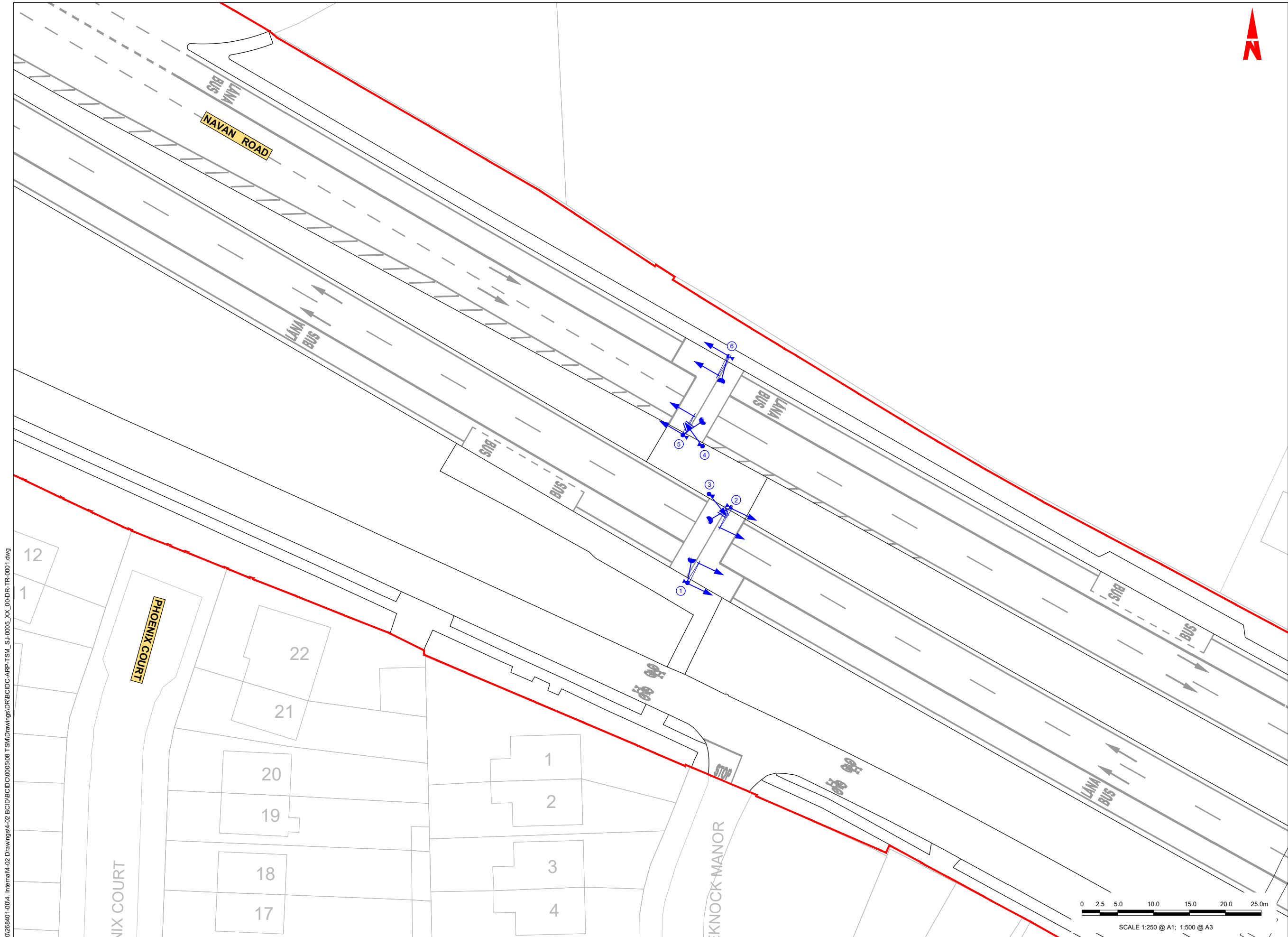
Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

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

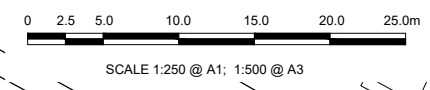
Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN NAVAN ROAD / AUBURN AVENUE**

Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0019	Sheet Number: 19 of 47	Status: A	Rev: M01
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - ↗ MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - ⊗ POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - - - - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

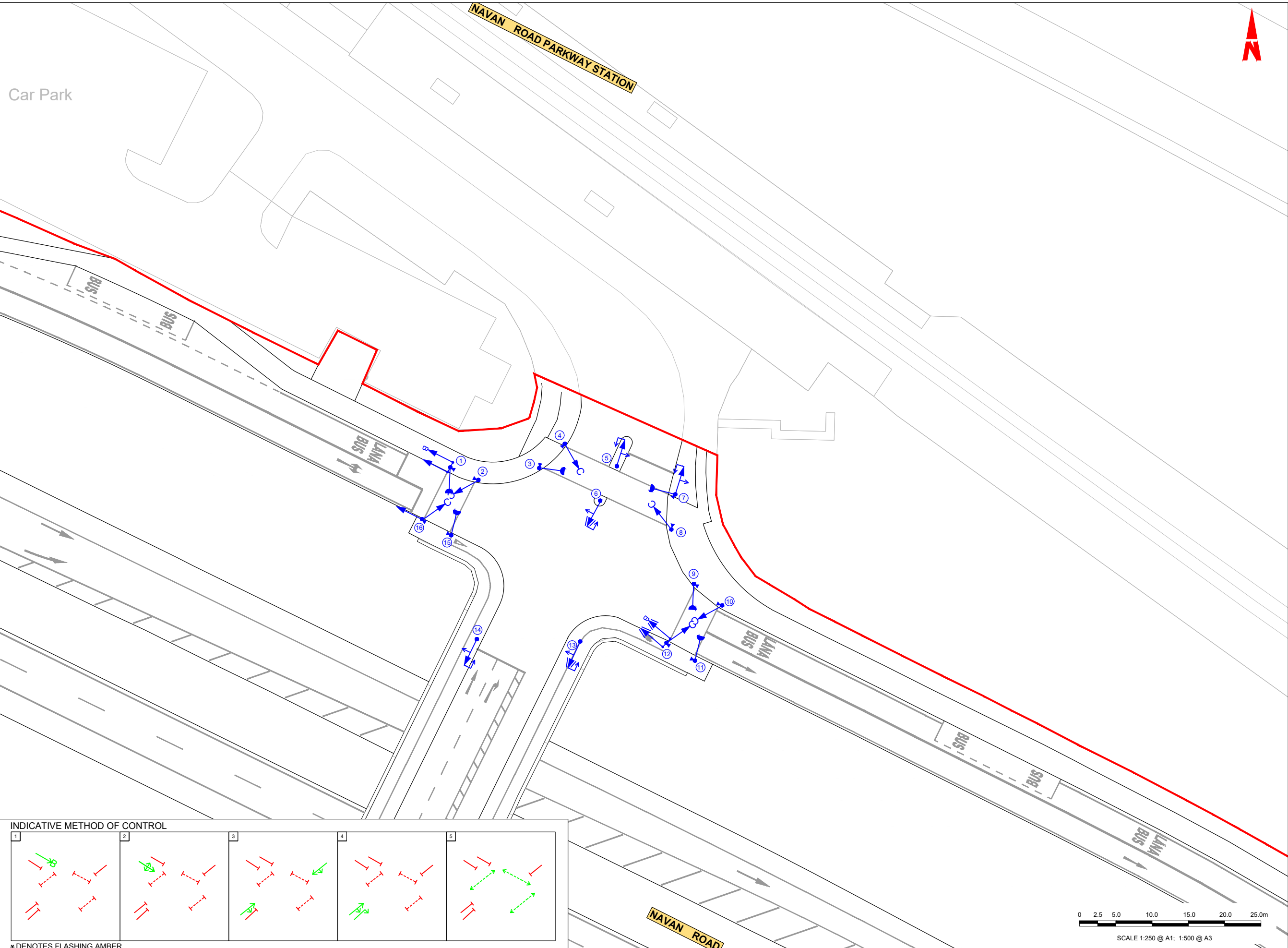
Client

Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		NAVAN ROAD (CASTLEKNOCK MANOR) PEDESTRIAN CROSSING		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0020	20 of 47	A	M01	

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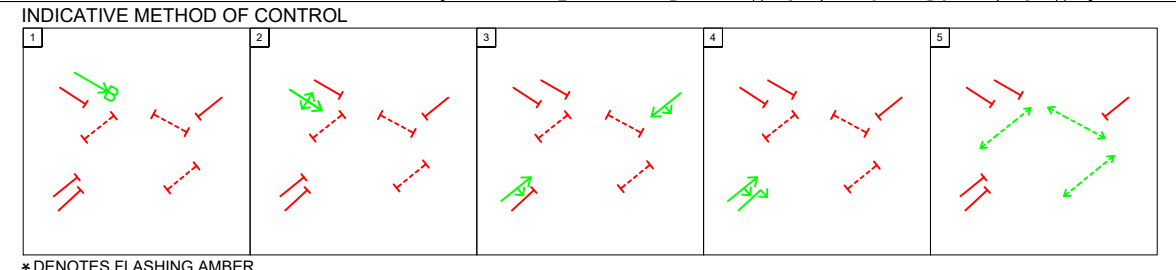
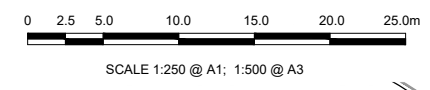
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- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 003 (J) PRIMARY
  - RTS 003 (J) SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



Car Park

NAVAN ROAD PARKWAY STATION

NAVAN ROAD



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M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

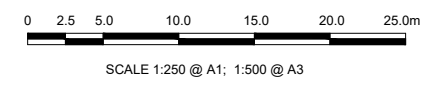
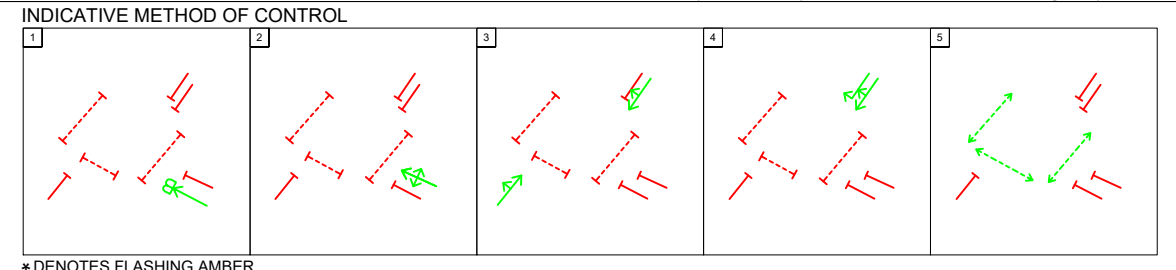
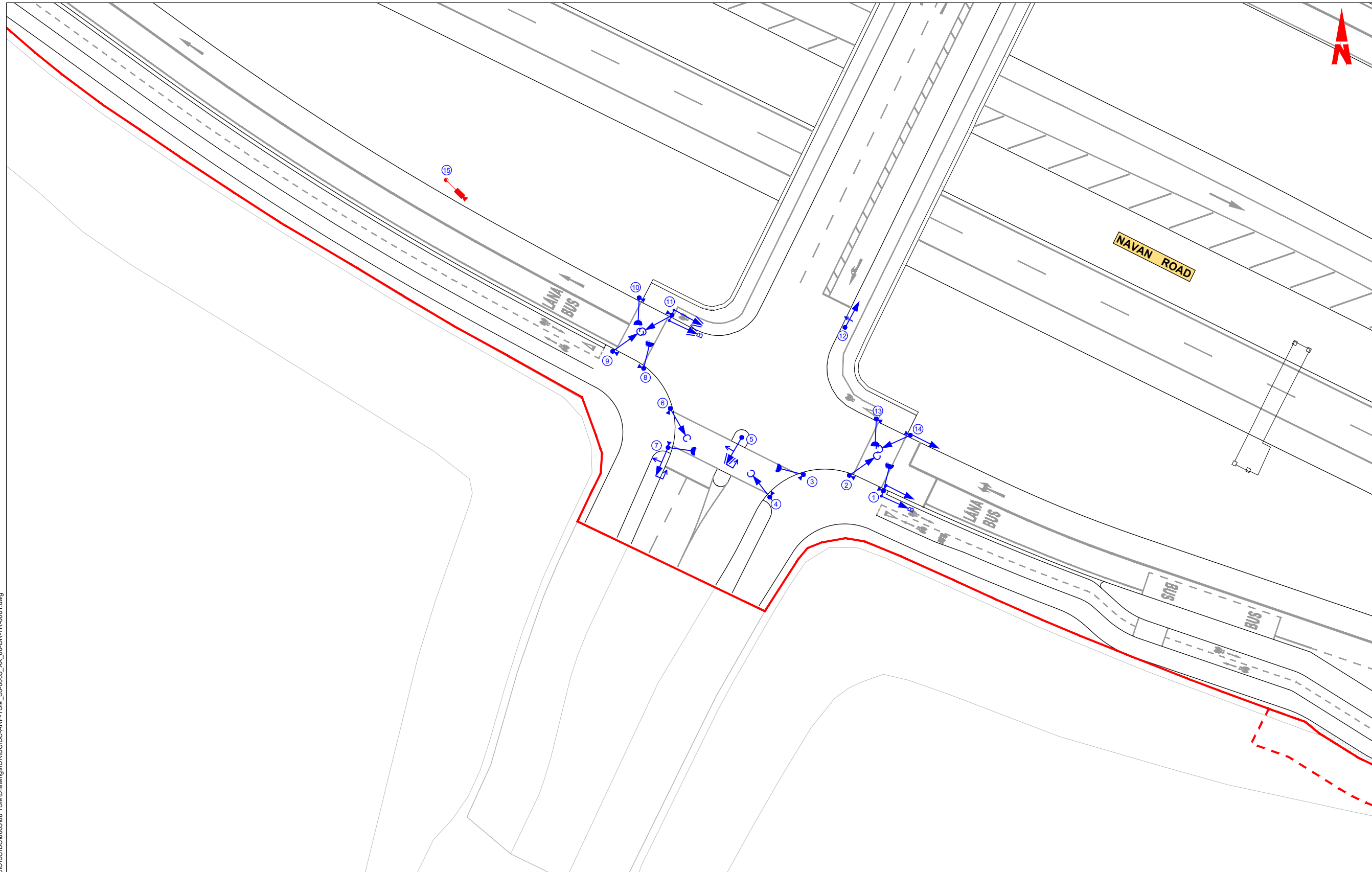
Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		R147 EASTBOUND OFF-SLIP / PARKWAY BRIDGE		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0021	21 of 47	A	M01	

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 003 (A) PRIMARY
  - RTS 003 (A) SECONDARY
  - RTS 003 (J) PRIMARY
  - RTS 003 (J) SECONDARY
  - RPC 004 PEDESTRIAN HEAD
  - RTS 007 (HIGH LEVEL) PRIMARY
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R147 WESTBOUND OFF-SLIP / PARKWAY BRIDGE</b>			
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0022	Sheet Number: 22 of 47	Status: A	Rev: M01

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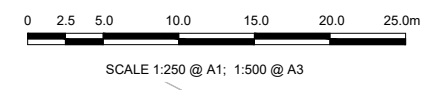
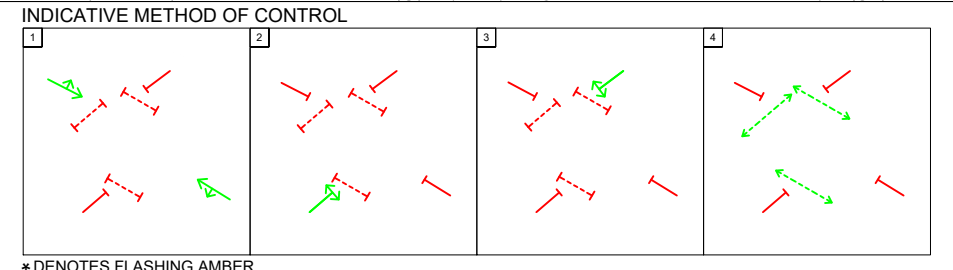
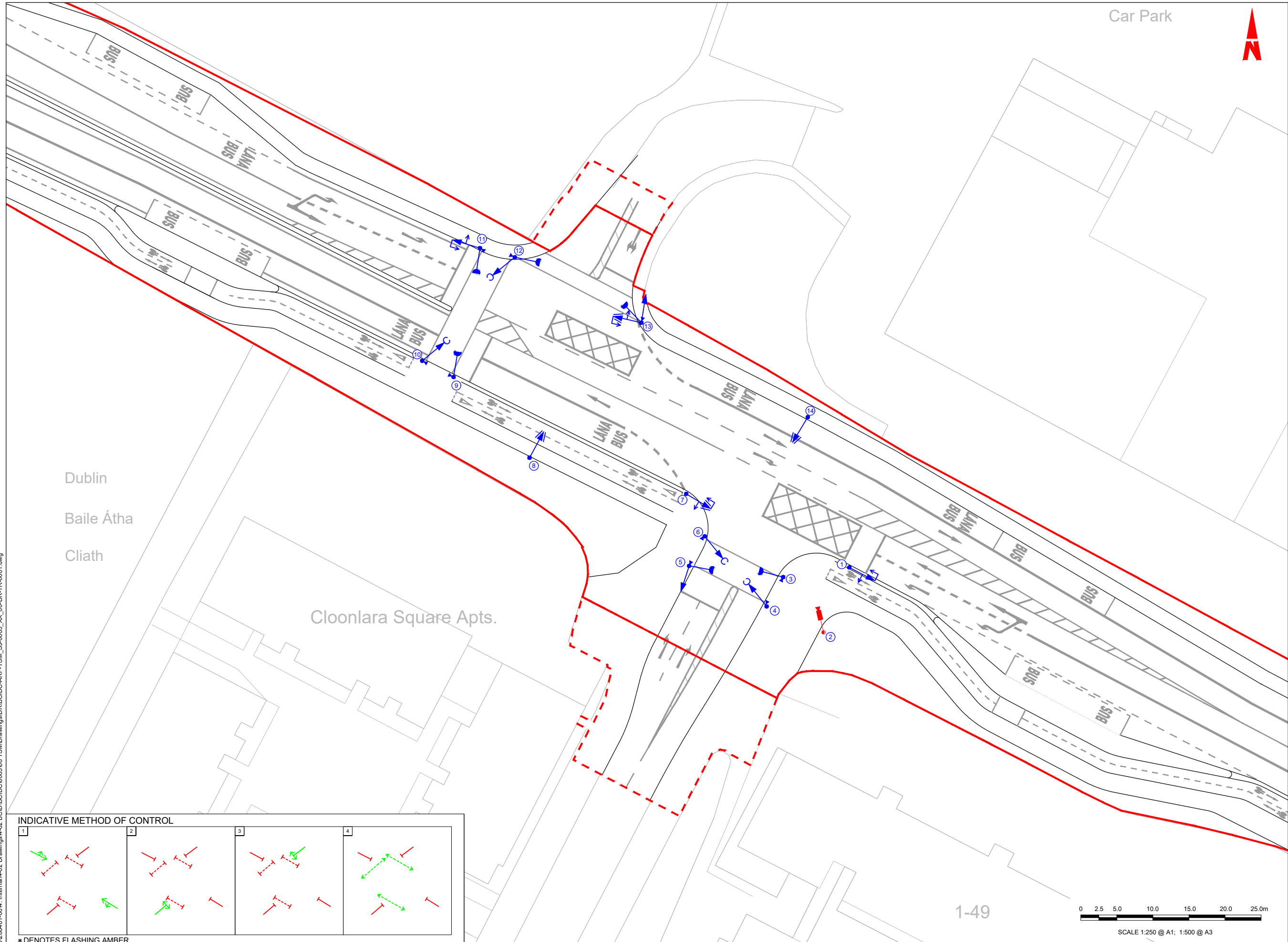
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Car Park



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 003 (J) PRIMARY
  - RTS 003 (J) SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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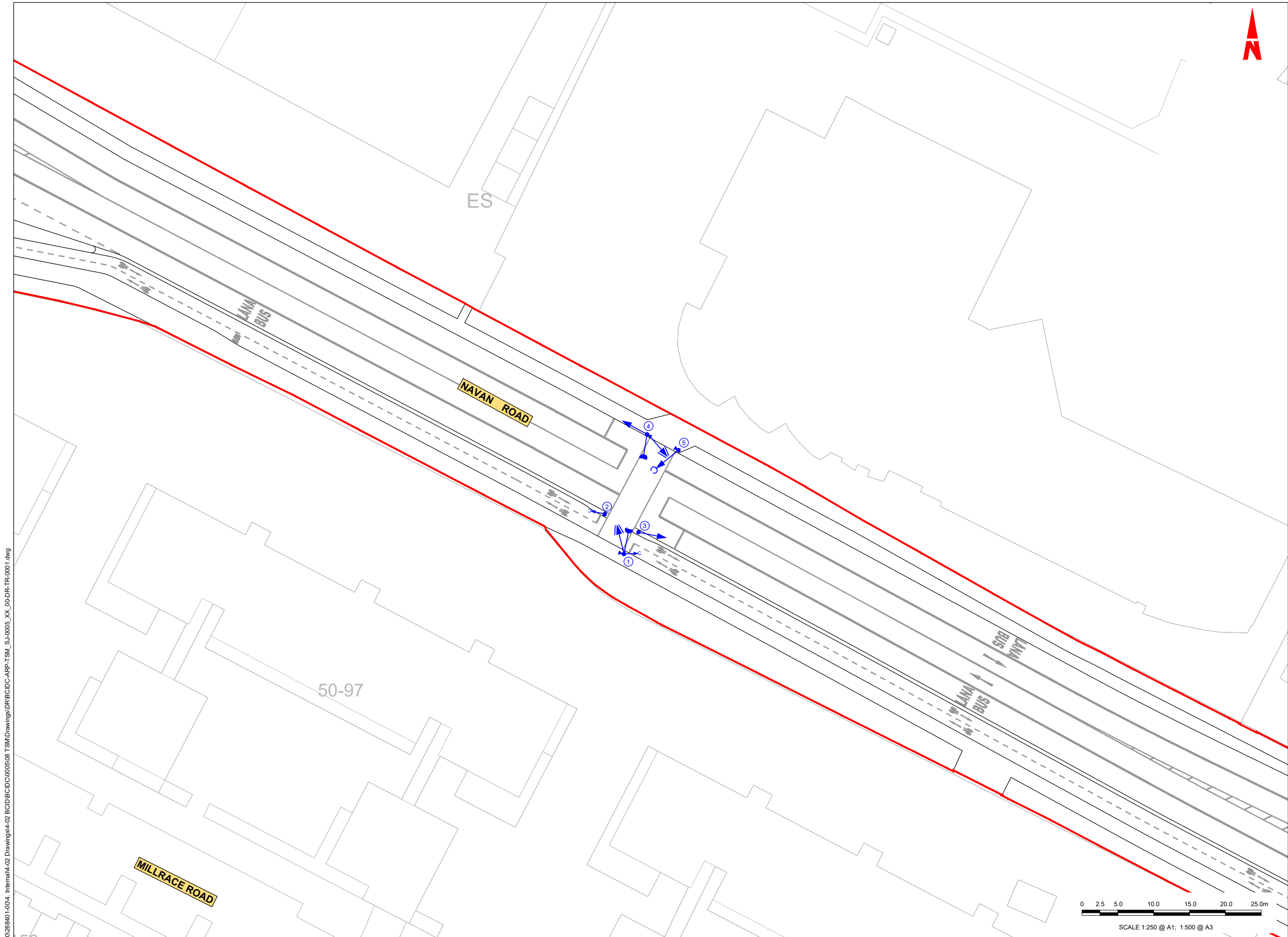
Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		NAVAN ROAD / PHOENIX PARK AVENUE		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0023	23 of 47	A	M01	

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - ⓧ POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - - - TEMPORARY LAND ACQUISITION

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**Project Ireland 2040**  
Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

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

Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME**  
JUNCTION SYSTEMS DESIGN  
NAVAN ROAD (GOWAN MOTORS) PEDESTRIAN CROSSING

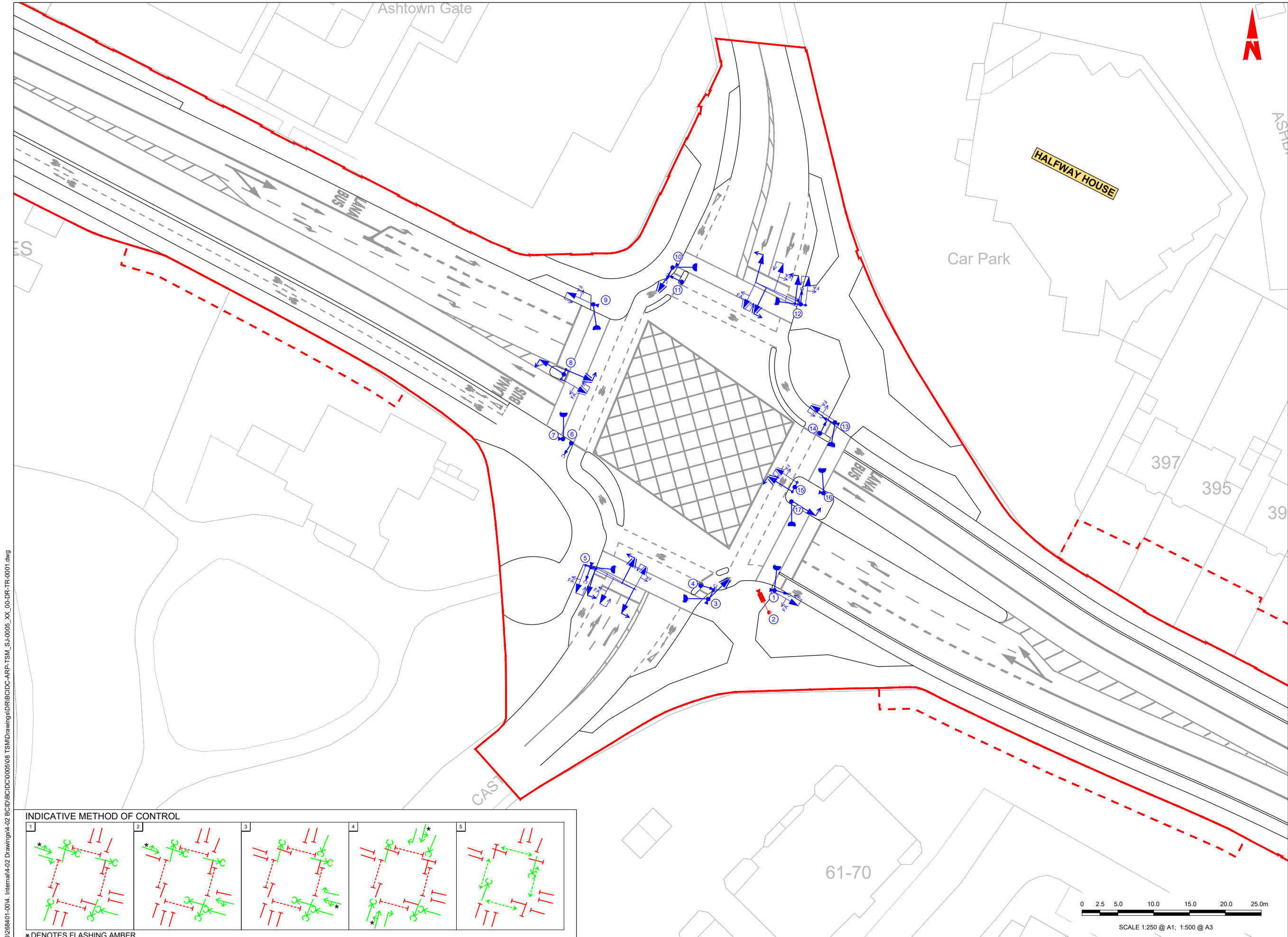
Drawing File Name: BCIDC-ARP-TSM\_SJ-0005\_XX\_00-DR-TR-0024 | Sheet Number: 24 of 47 | Status: A | Rev: M01

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

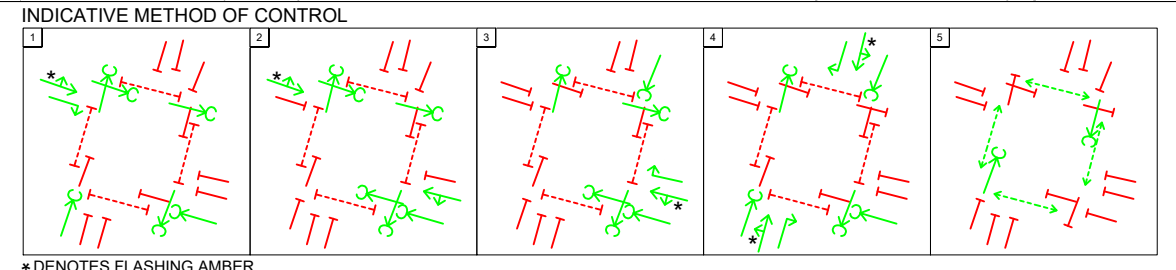
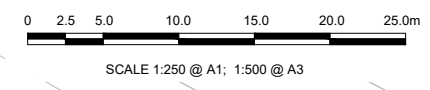
0 2.5 5.0 10.0 15.0 20.0 25.0m

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 SECONDARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

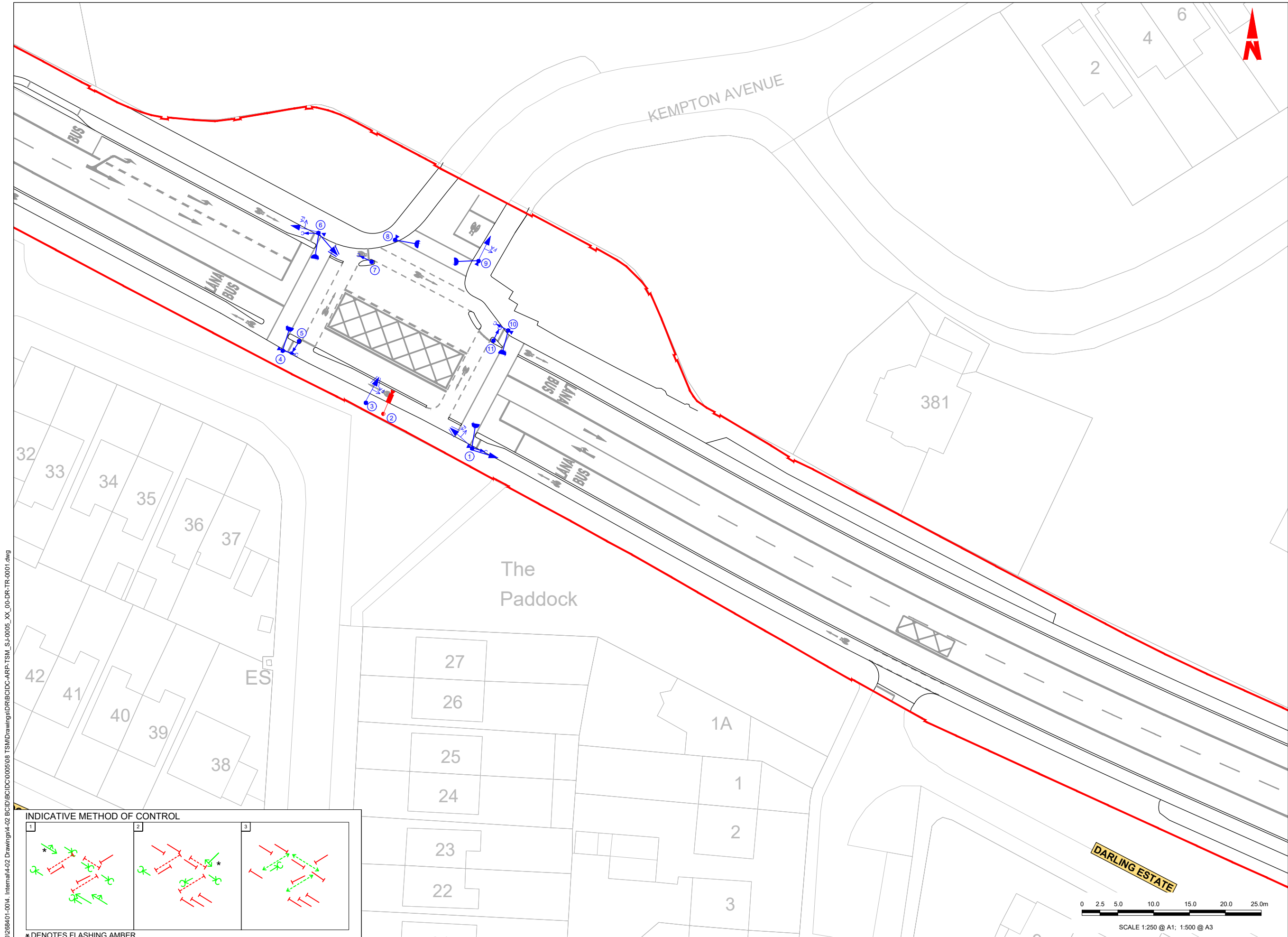
Date: 04/04/2022  
Scale: 1:250 @ A1, 1:500 @ A3  
Drawn: GMcT, Checked: GE, Approved: BD

Project Code: BCIDC, Originator Code: ARP, OMS Code: 268401-00

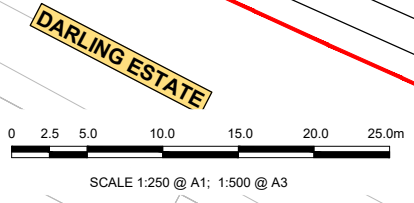
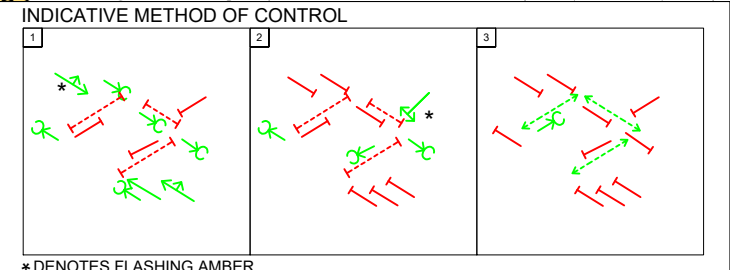
Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN NAVAN ROAD / ASHTOWN ROAD</b>			
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0025	Sheet Number: 25 of 47	Status: A	Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

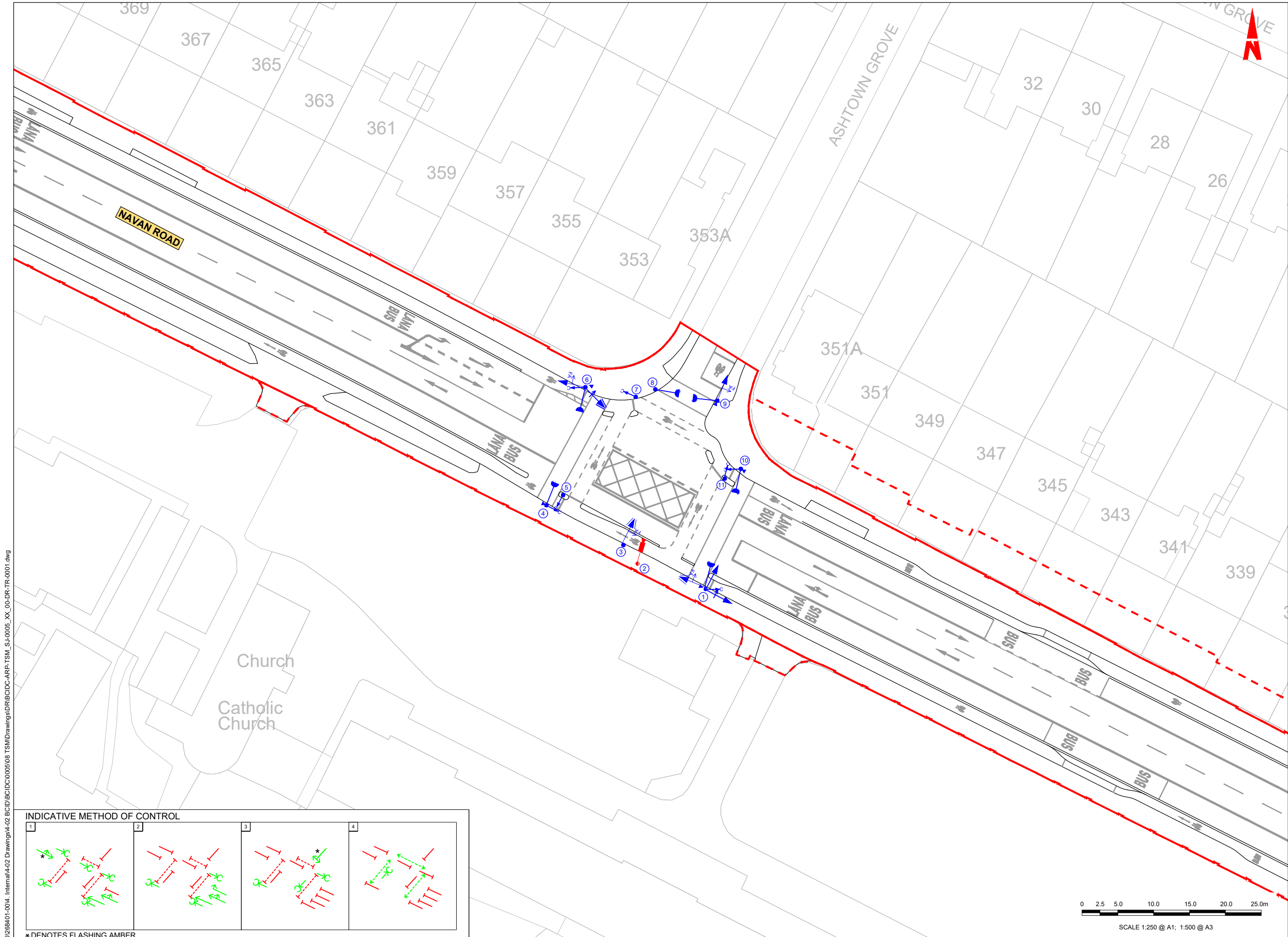
Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

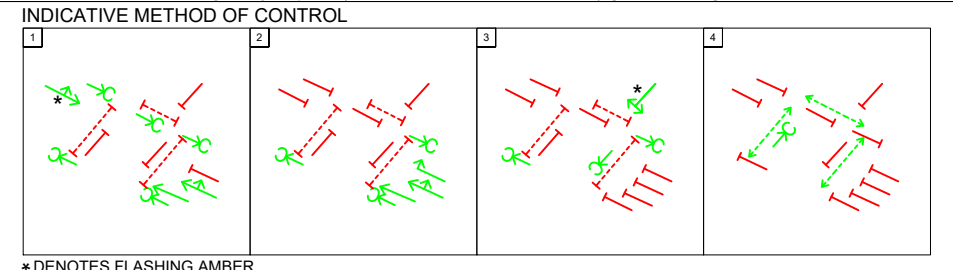
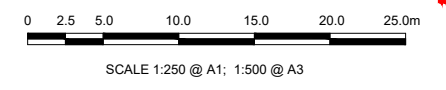
Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN NAVAN ROAD / KEMPTON AVENUE</b>			
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0026	Sheet Number: 26 of 47	Status: A	Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 003 (A) PRIMARY
  - RTS 003 (A) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

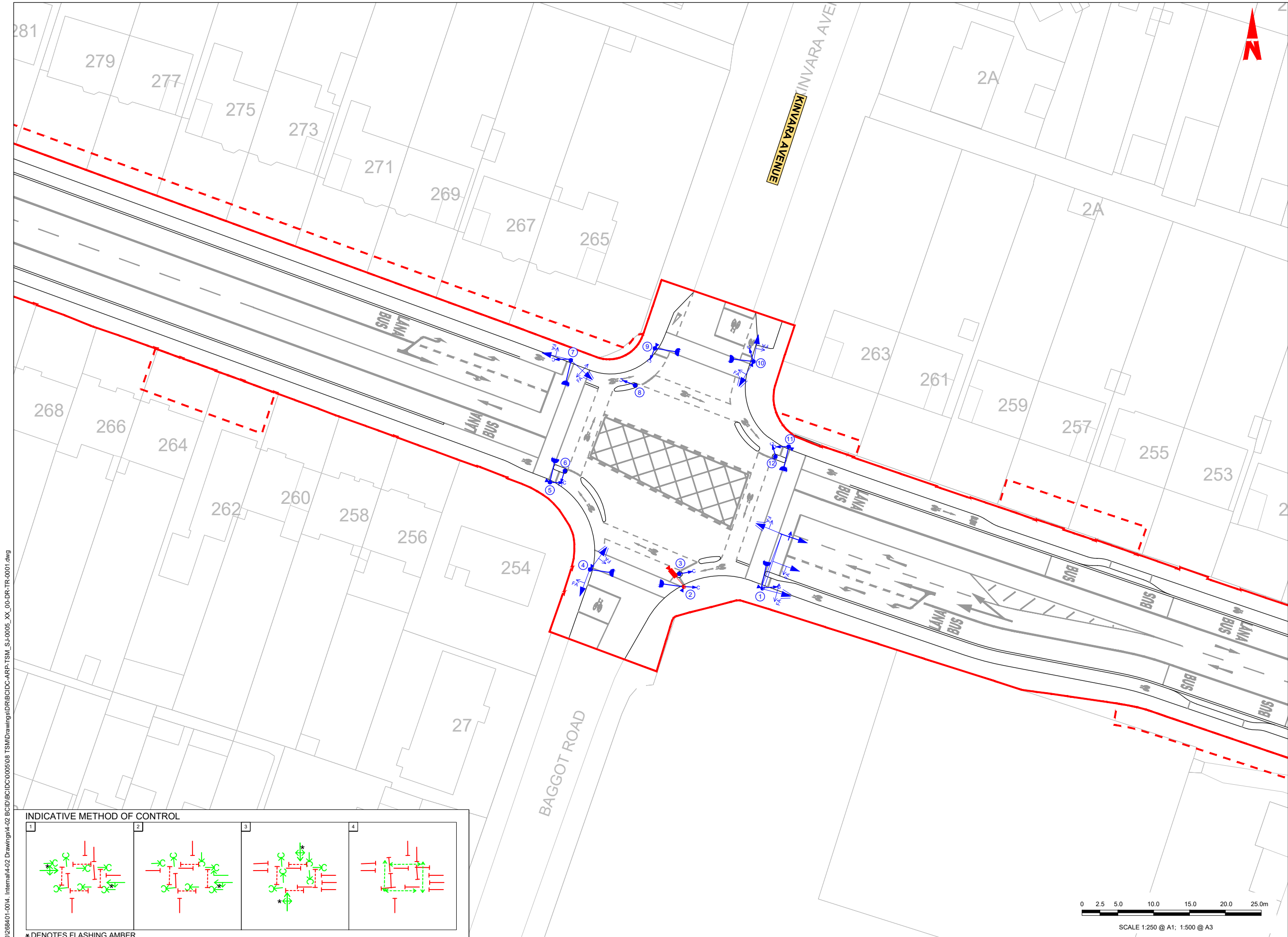
Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

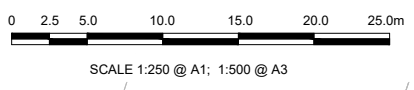
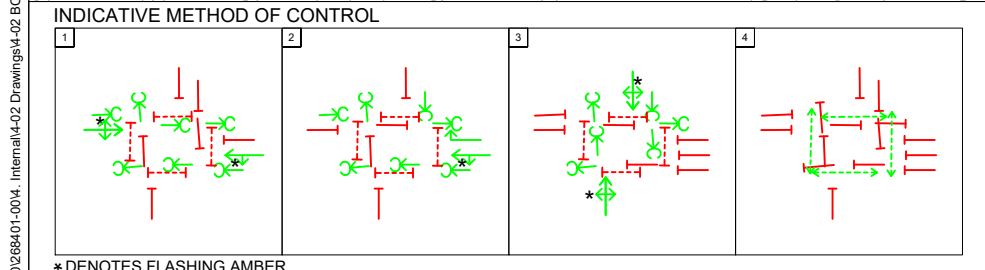
Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN NAVAN ROAD / ASHTOWN GROVE</b>			
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0027	Sheet Number: 27 of 47	Status: A	Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 003 (A) PRIMARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE NUMBER
  - PAN / TILT / ZOOM CCTV CAMERA
  - MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

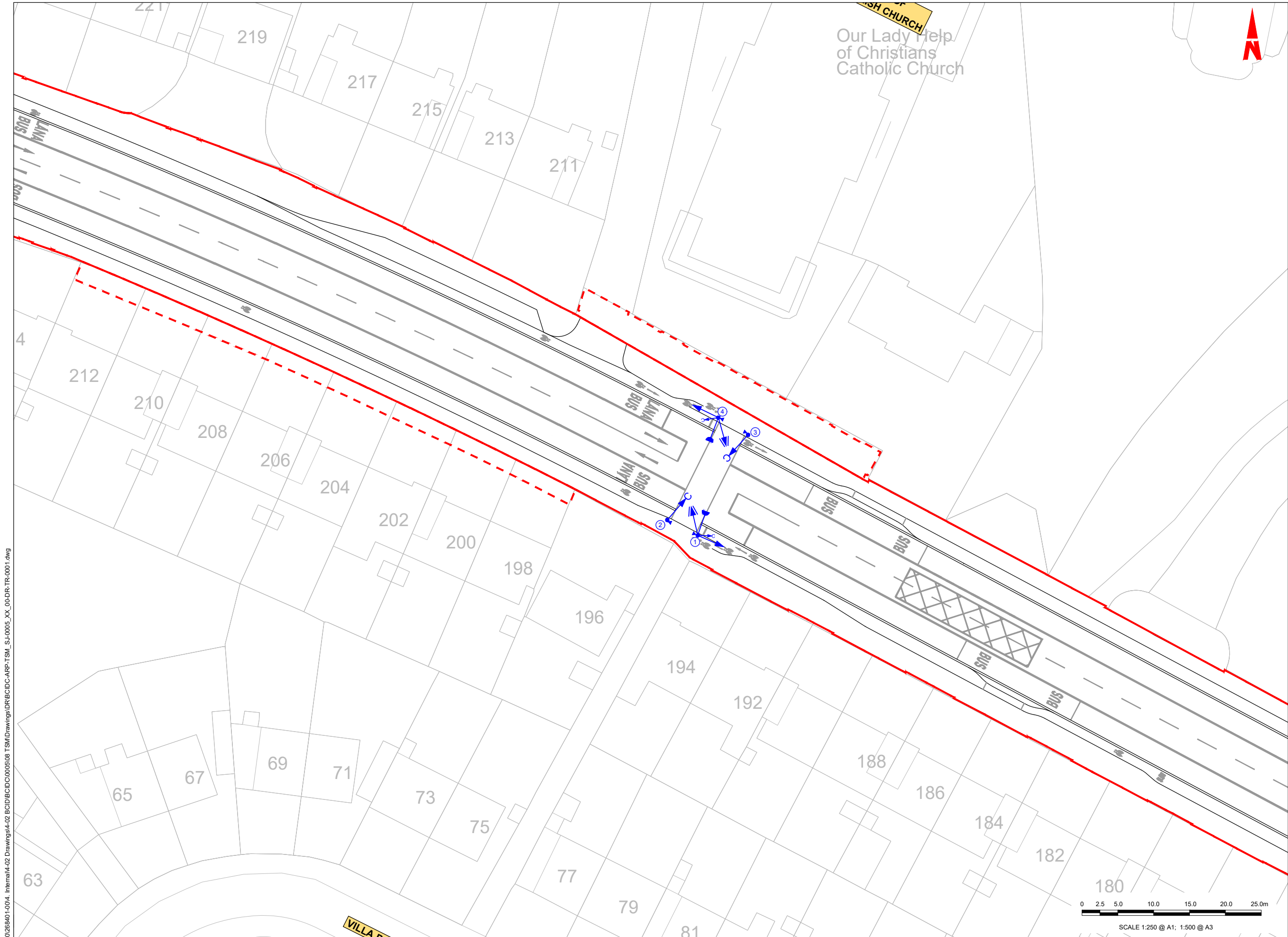
Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN NAVAN ROAD / BAGGOT ROAD</b>			
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0028	Sheet Number: 28 of 47	Status: A	Rev: M01

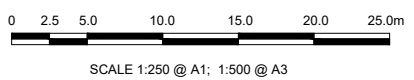
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
    - RTS 001 PRIMARY
    - RTS 001 SECONDARY
    - RTS 007 (HIGH LEVEL) PRIMARY
    - RTS 007 (LOW LEVEL) PRIMARY
    - RPC 004 PEDESTRIAN HEAD
  - TRAFFIC SIGNAL EQUIPMENT:**
    - PUSH BUTTON UNIT
    - POLE (STANDARD HEIGHT)
    - POLE NUMBER
  - GENERAL:**
    - SITE BOUNDARY LINE
    - TEMPORARY LAND ACQUISITION



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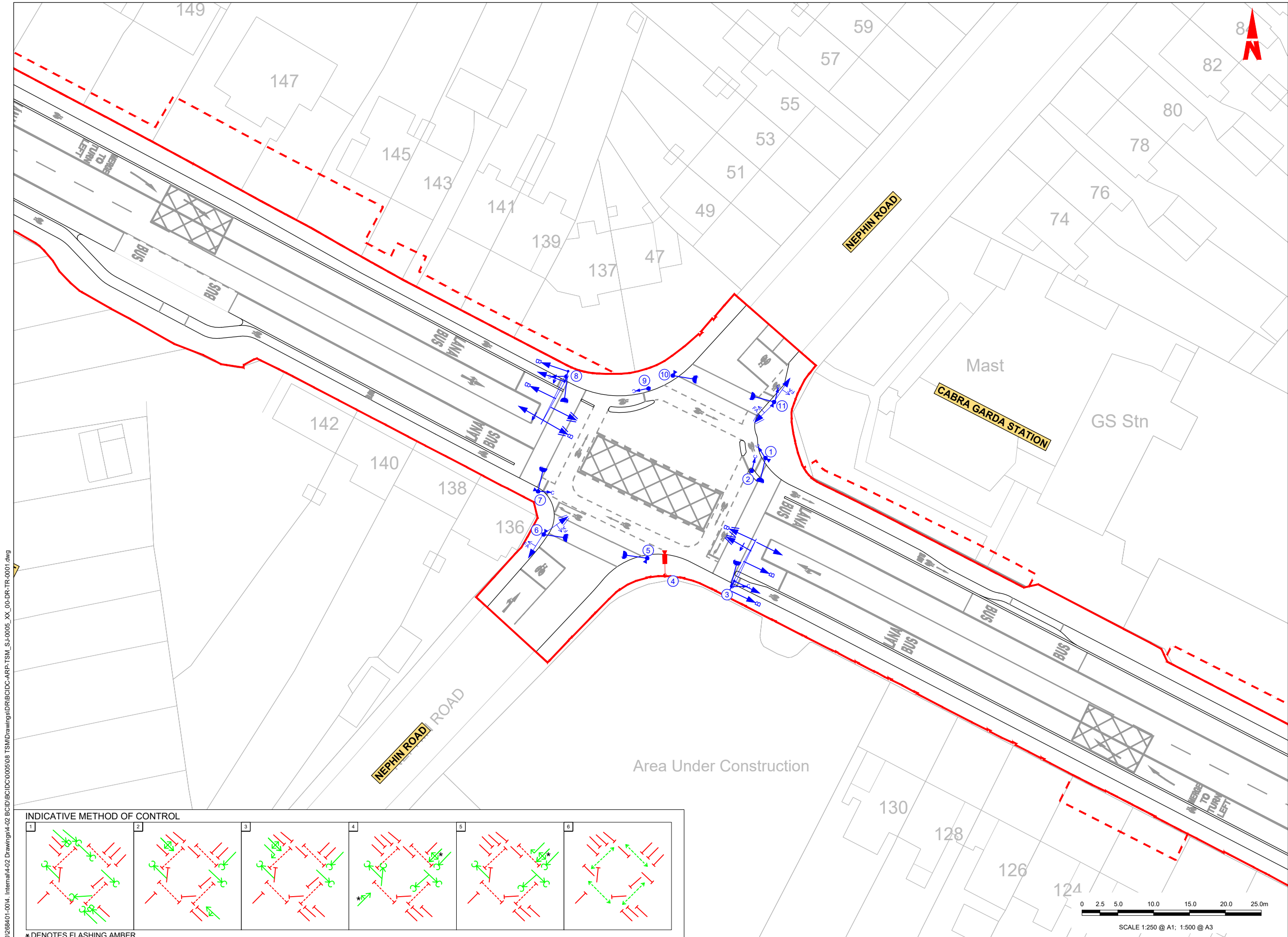
Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

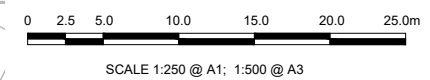
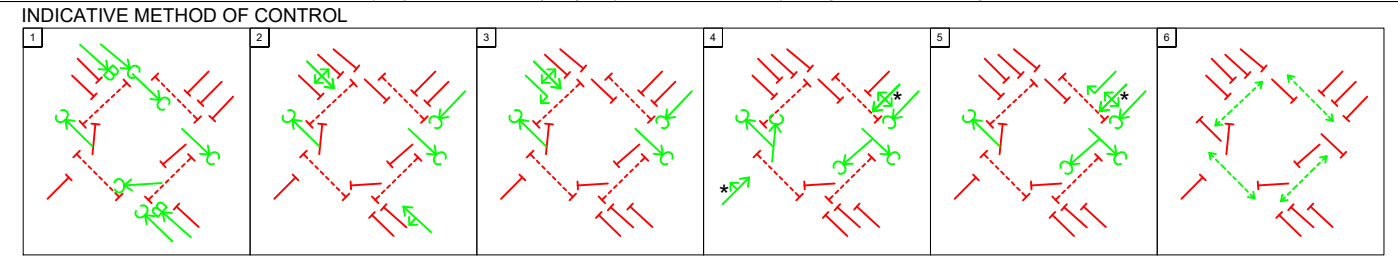
Engineering Designer

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN NAVAN ROAD (OUR LADY HELP OF CHRISTIANS CATHOLIC CHURCH) PEDESTRIAN CROSSING			
Drawing File Name BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0029	Sheet Number 29 of 47	Status A	Rev M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 003 (A) PRIMARY
  - RTS 003 (A) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - TALL POLE (TRAFFIC SIGNALS)
  - MAST ARM (VARIABLE LENGTH)
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

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

Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME**  
JUNCTION SYSTEMS DESIGN  
NAVAN ROAD / NEPHIN ROAD

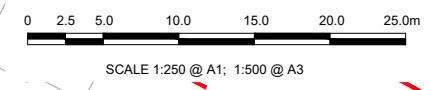
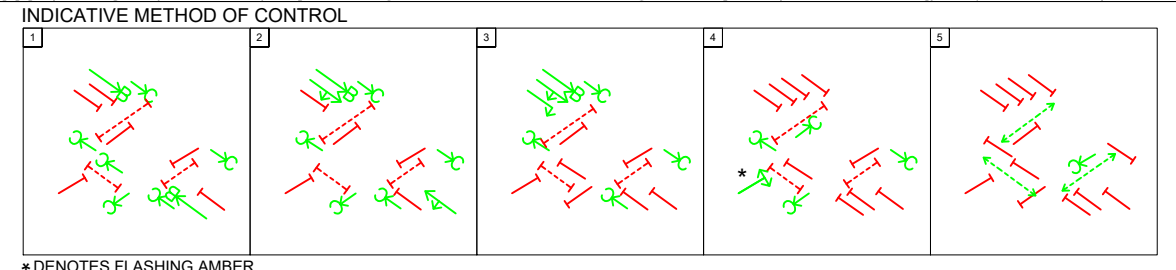
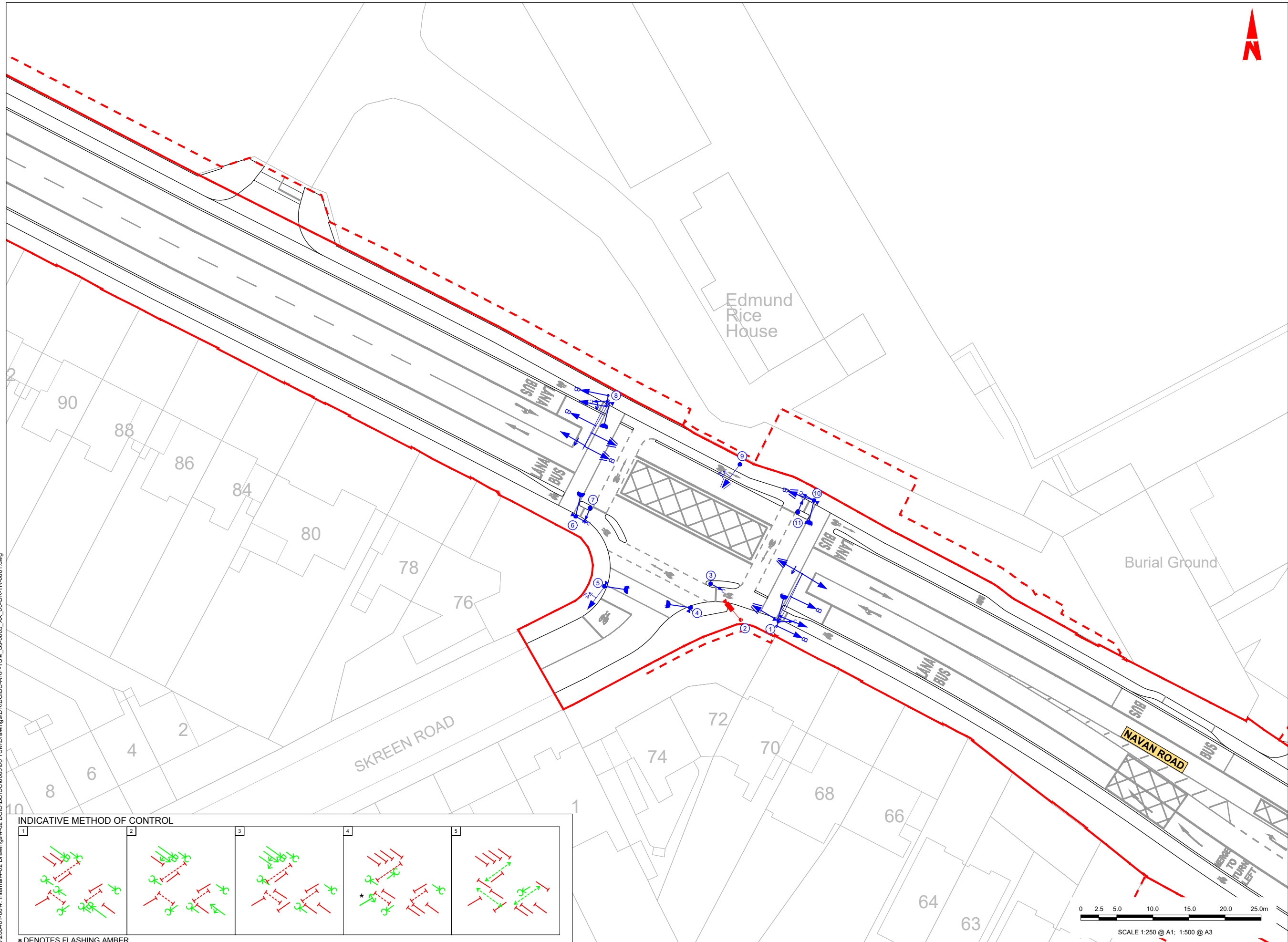
Drawing File Name: BCIDC-ARP-TSM\_SJ-0005\_XX\_00-DR-TR-0030 | Sheet Number: 30 of 47 | Status: A | Rev: M01





LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 003 (A) PRIMARY
  - RTS 003 (A) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

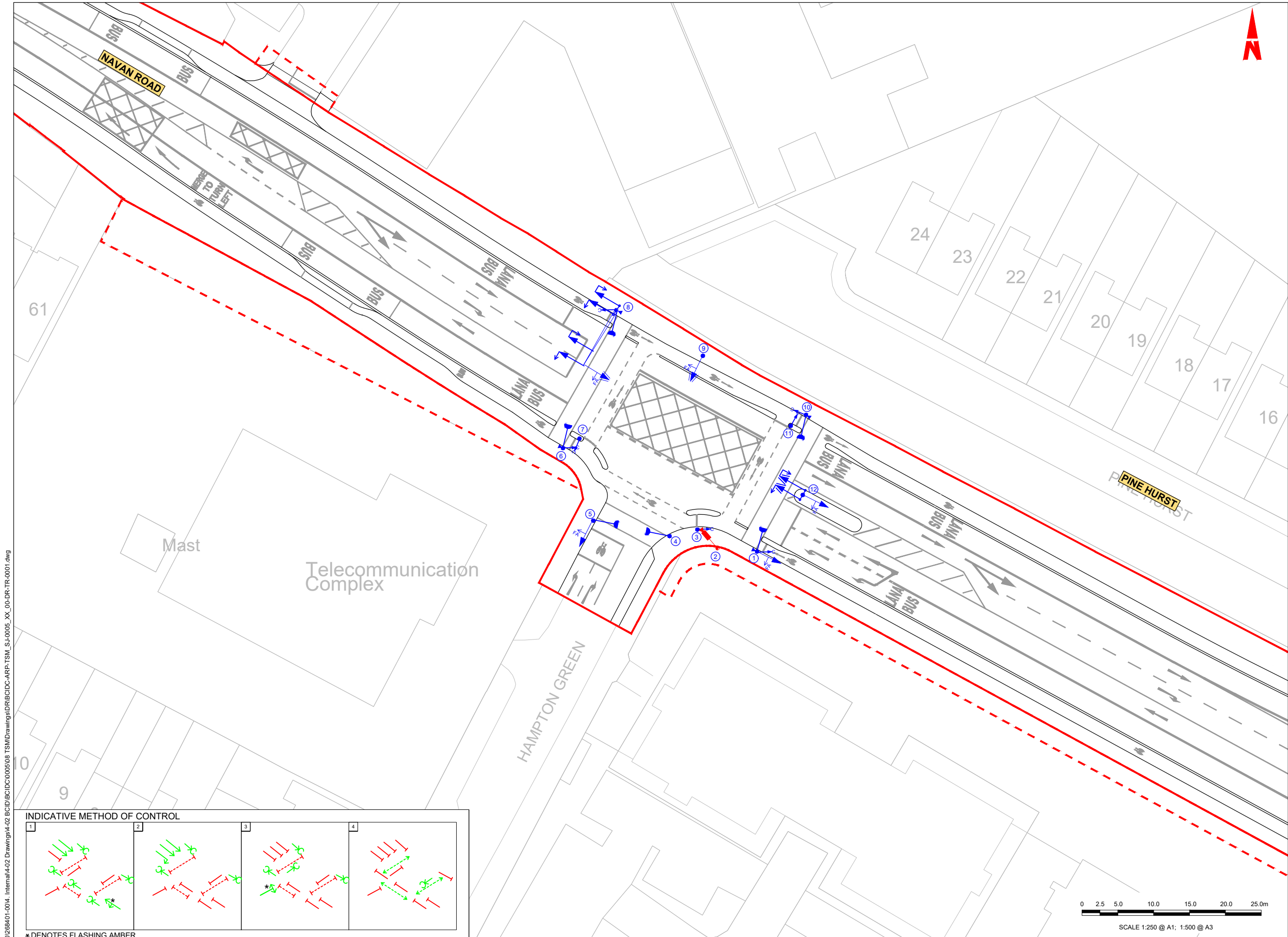
Programme Title: **BUSCONNECTS DUBLIN**  
**CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME**  
**JUNCTION SYSTEMS DESIGN**  
**NAVAN ROAD / SKREEN ROAD**

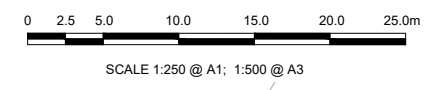
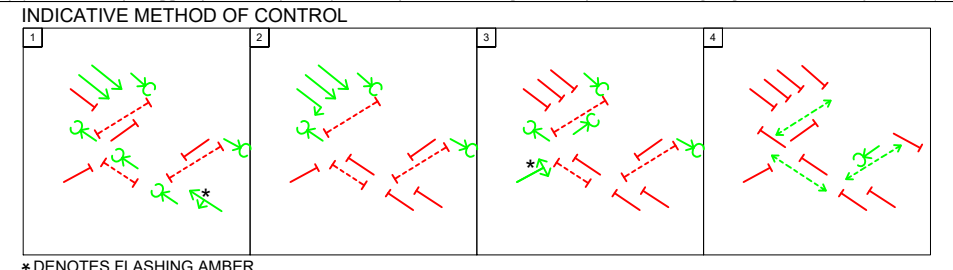
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0031	Sheet Number: 31 of 47	Status: A	Rev: M01
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 002 (B) PRIMARY
  - RTS 002 (B) SECONDARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
  - PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

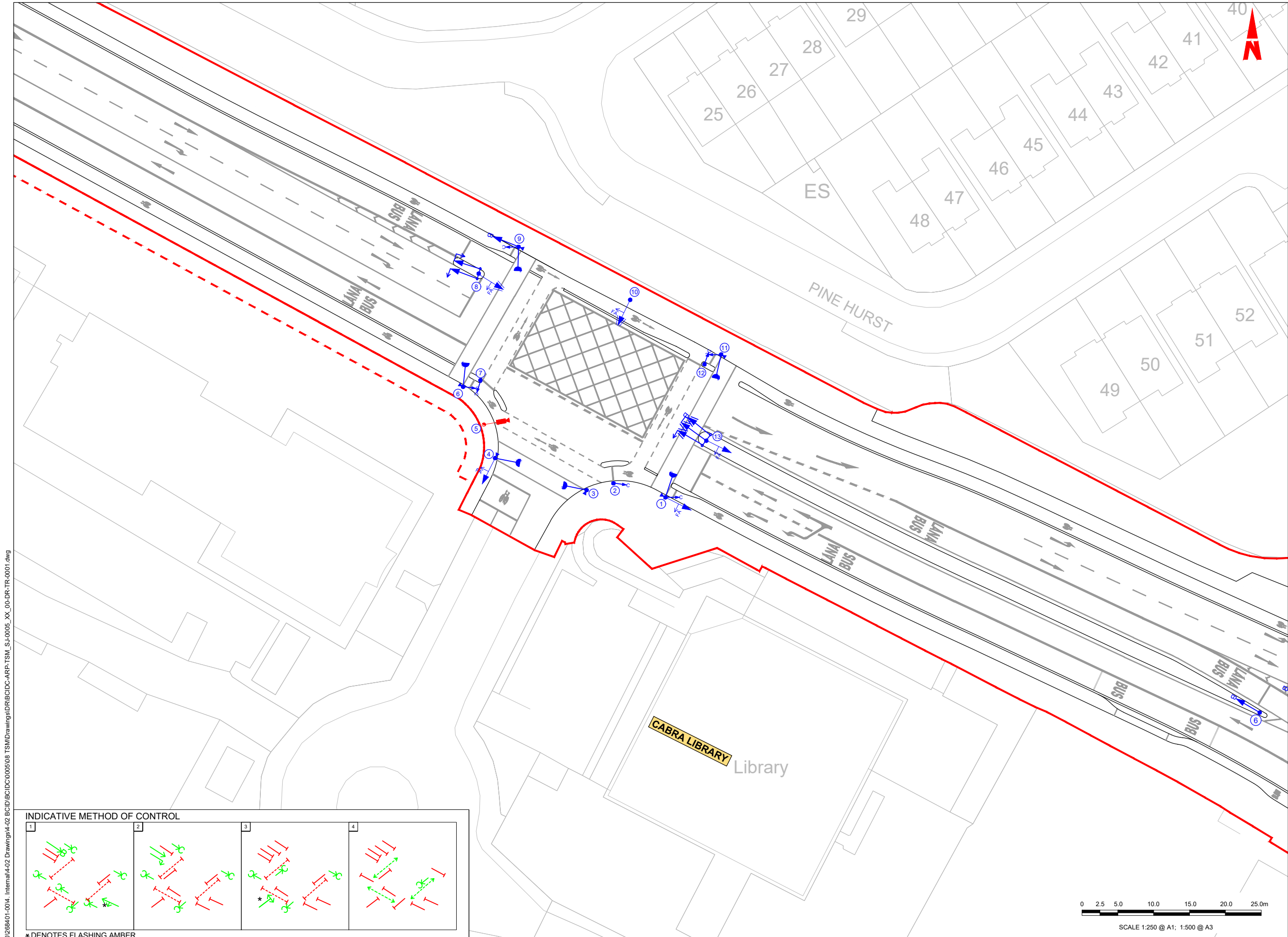
Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

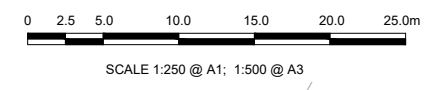
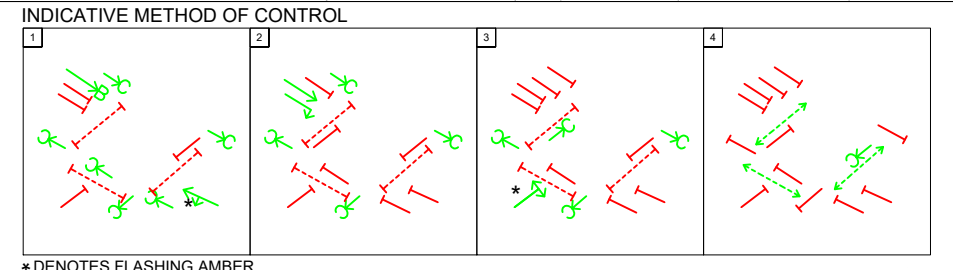
Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN NAVAN ROAD / HAMPTON GREEN</b>			
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0032	Sheet Number: 32 of 47	Status: A	Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 002 (B) PRIMARY
  - RTS 002 (B) SECONDARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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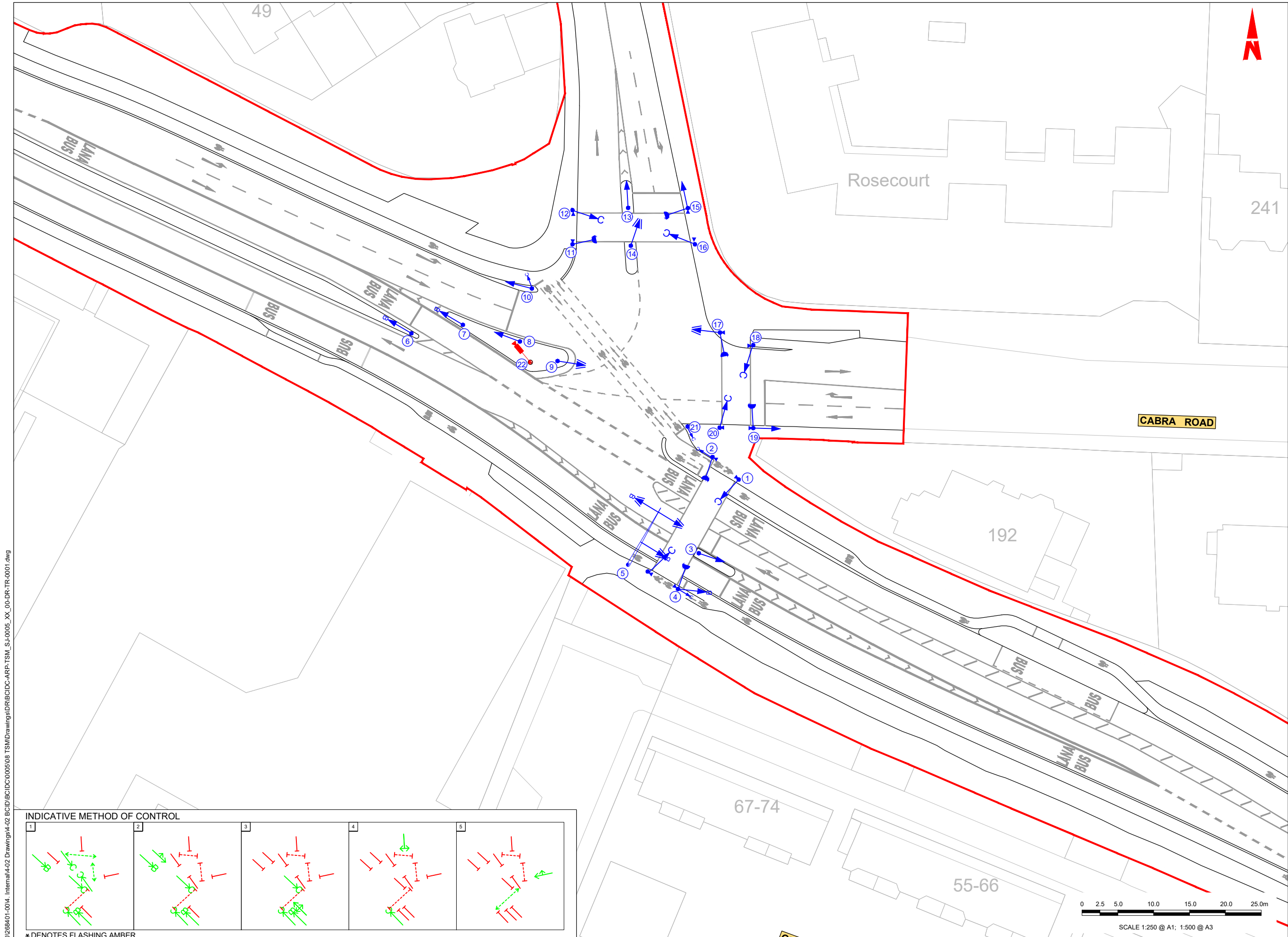
Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

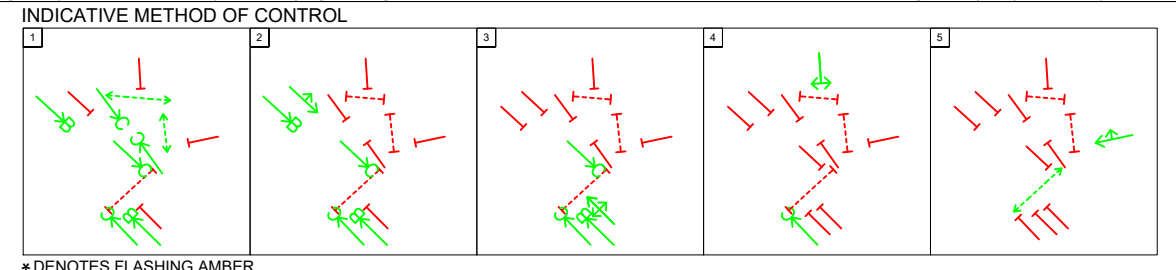
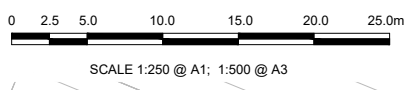
Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		NAVAN ROAD / CABRA LIBRARY		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0033	33 of 47	A	M01	

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GmCt	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

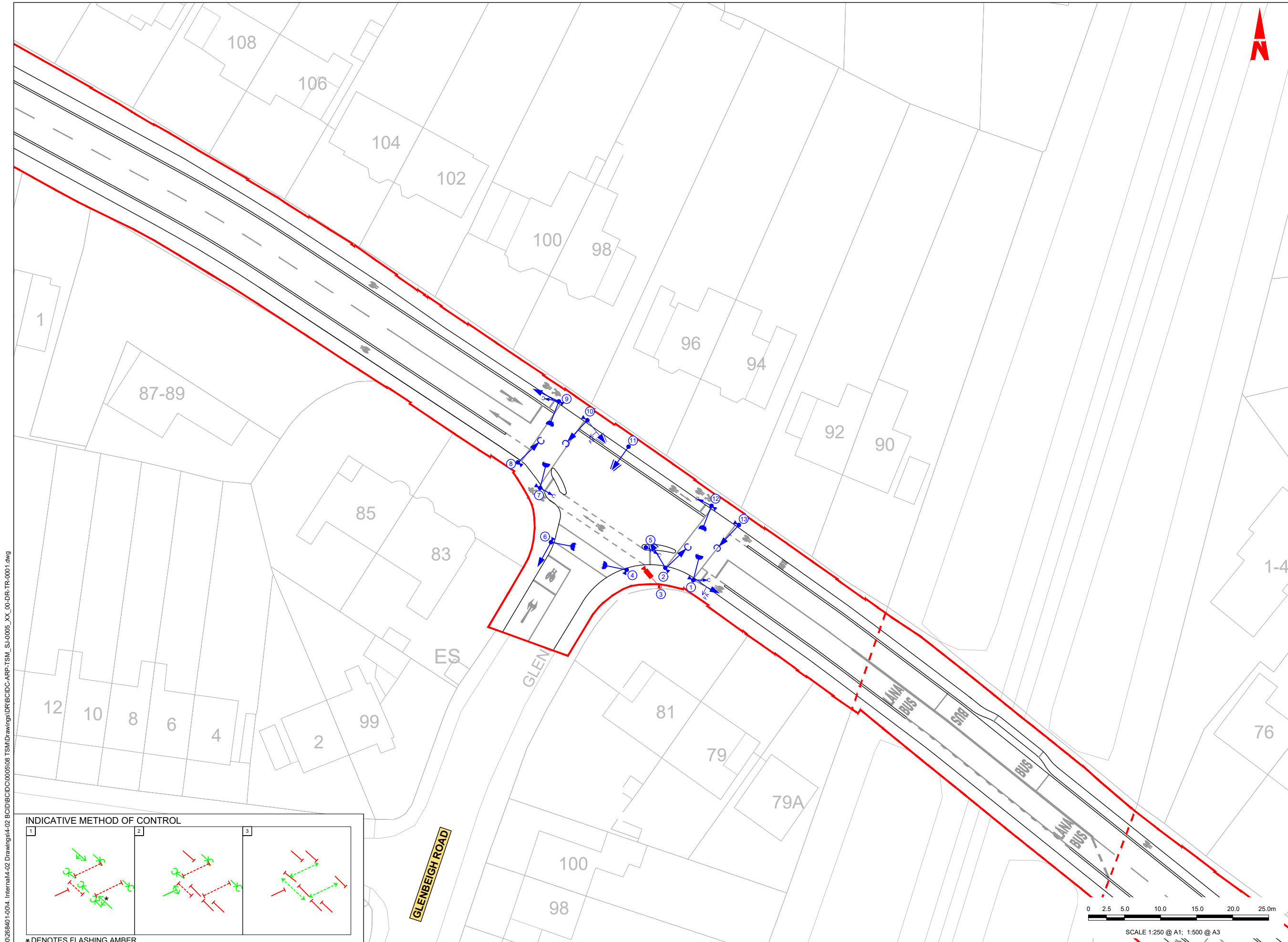
Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		NAVAN ROAD / OLD CABRA ROAD		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0034	34 of 47	A	M01	

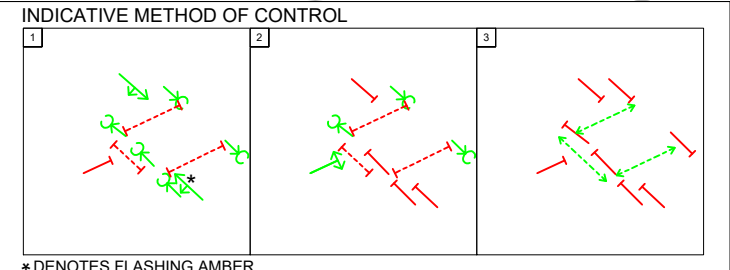
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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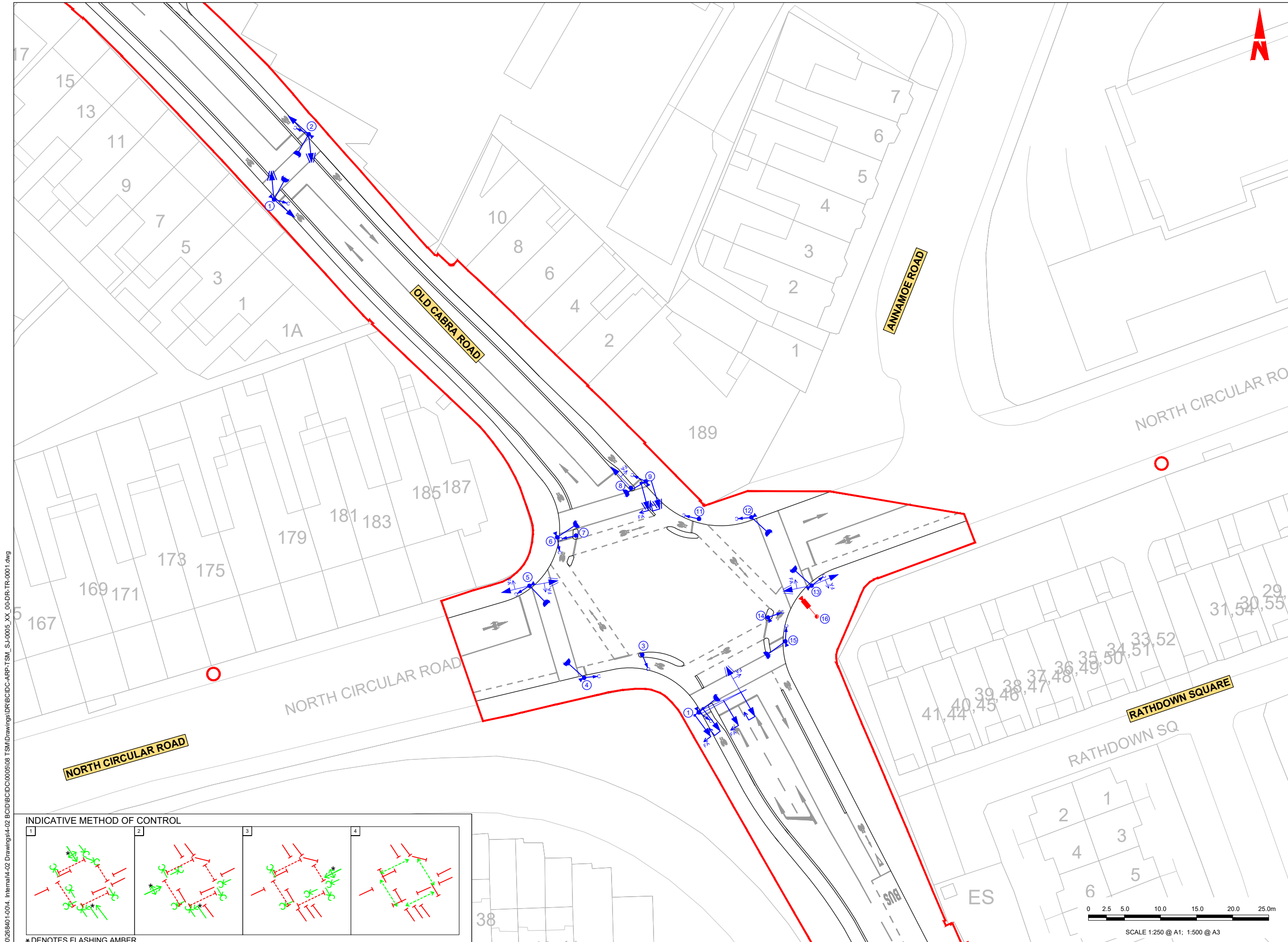
Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

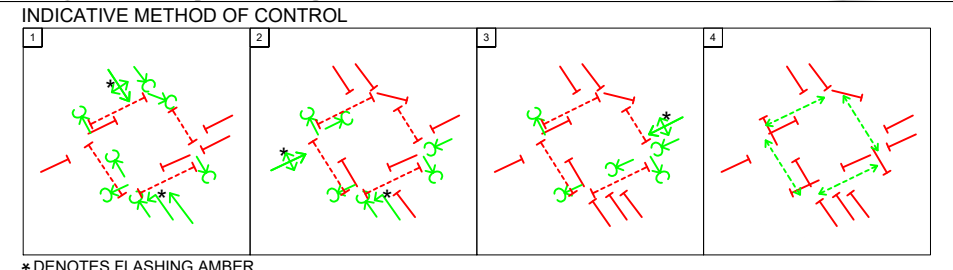
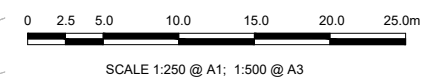
Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		OLD CABRA ROAD / GLENBEIGH ROAD		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0035	35 of 47	A	M01	

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (B) PRIMARY
  - RTS 002 (B) SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 004 PRIMARY
  - RTS 004 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - MAST ARM (VARIABLE LENGTH)
  - TALL POLE (TRAFFIC SIGNALS)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
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M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

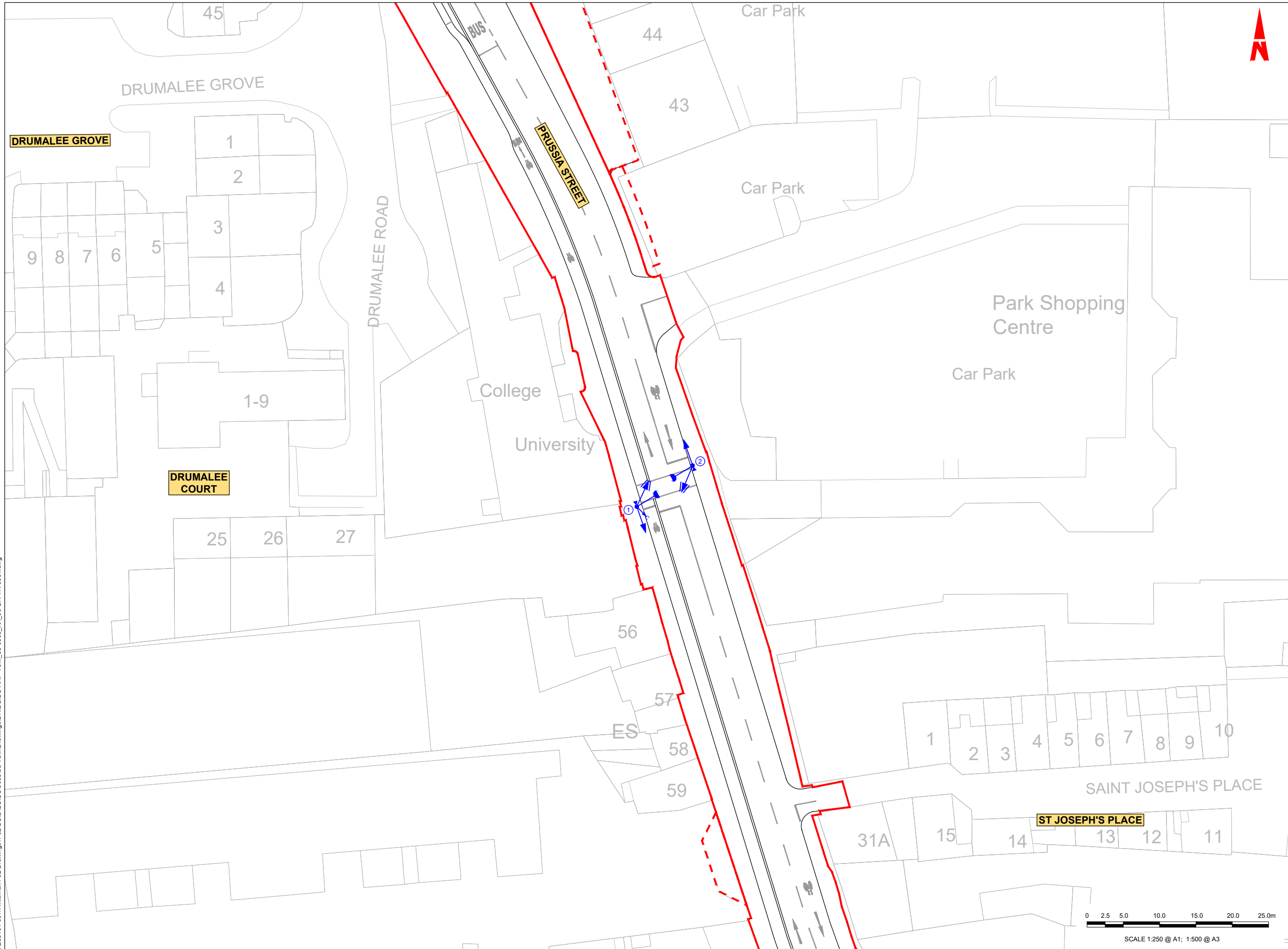
Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		OLD CABRA ROAD PEDESTRIAN CROSSING & PRUSSIA STREET / NORTH CIRCULAR ROAD		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0036	36 of 47	A	M01	

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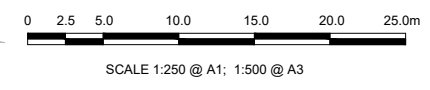
- RTS 001 PRIMARY
- RTS 001 SECONDARY
- RTS 007 (LOW LEVEL) PRIMARY
- RPC 004 PEDESTRIAN HEAD

**TRAFFIC SIGNAL EQUIPMENT:**

- PUSH BUTTON UNIT
- POLE (STANDARD HEIGHT)
- POLE NUMBER

**GENERAL:**

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



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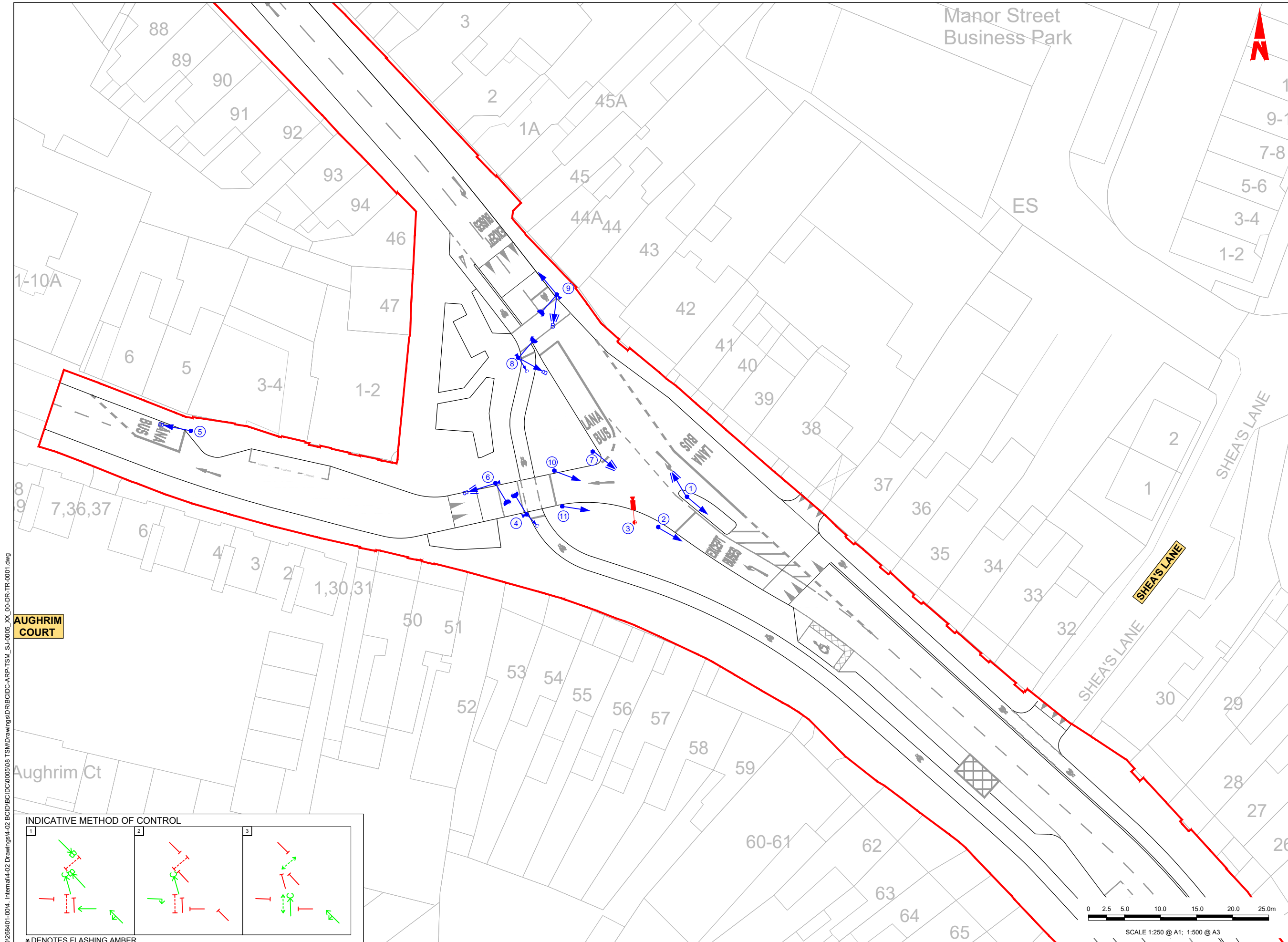
Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

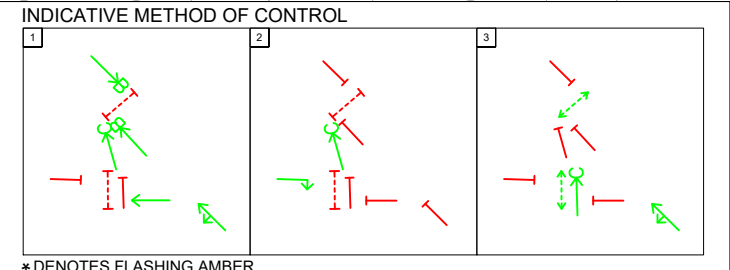
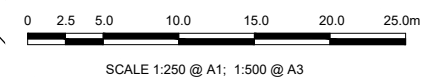
Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN PRUSSIA STREET PEDESTRIAN CROSSING		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0037	37 of 47	A	M01	

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



**AUGHRIM COURT**

Aughrim Ct

Manor Street Business Park

ES

SHEAR'S LANE

SHEAR'S LANE

SHEAR'S LANE

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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

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

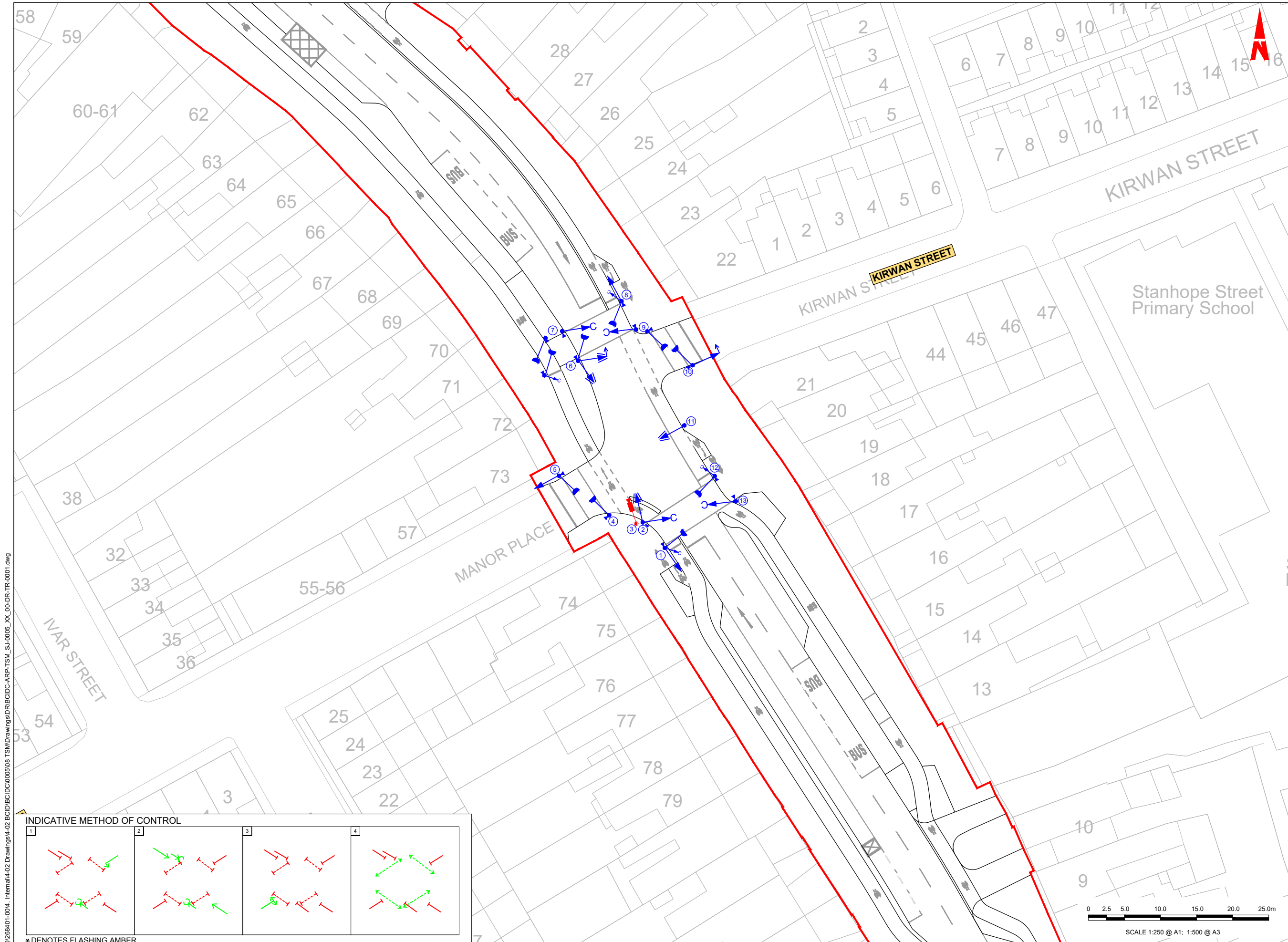
Drawing Title: **BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN MANOR STREET / AUGHRIM STREET**

Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0038	Sheet Number: 38 of 47	Status: A	Rev: M01
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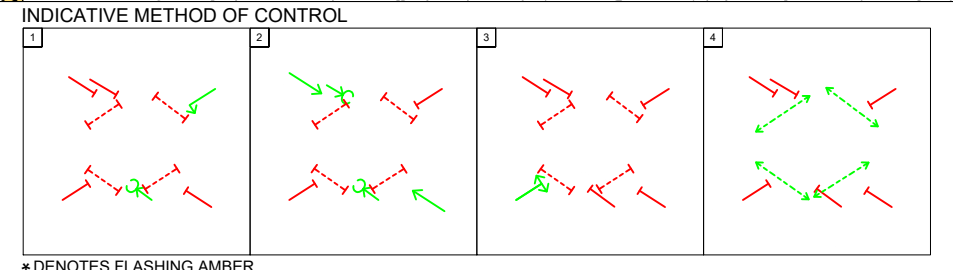
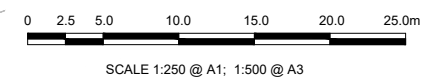
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (C) PRIMARY
  - RTS 002 (C) SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - ⊗ POLE NUMBER
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
- GENERAL:**
- SITE BOUNDARY LINE
  - - - - - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

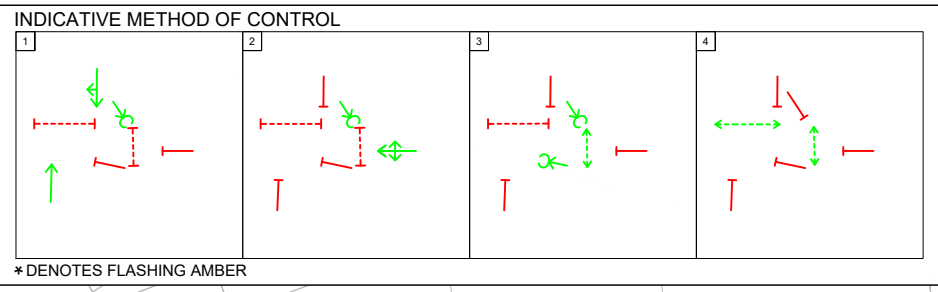
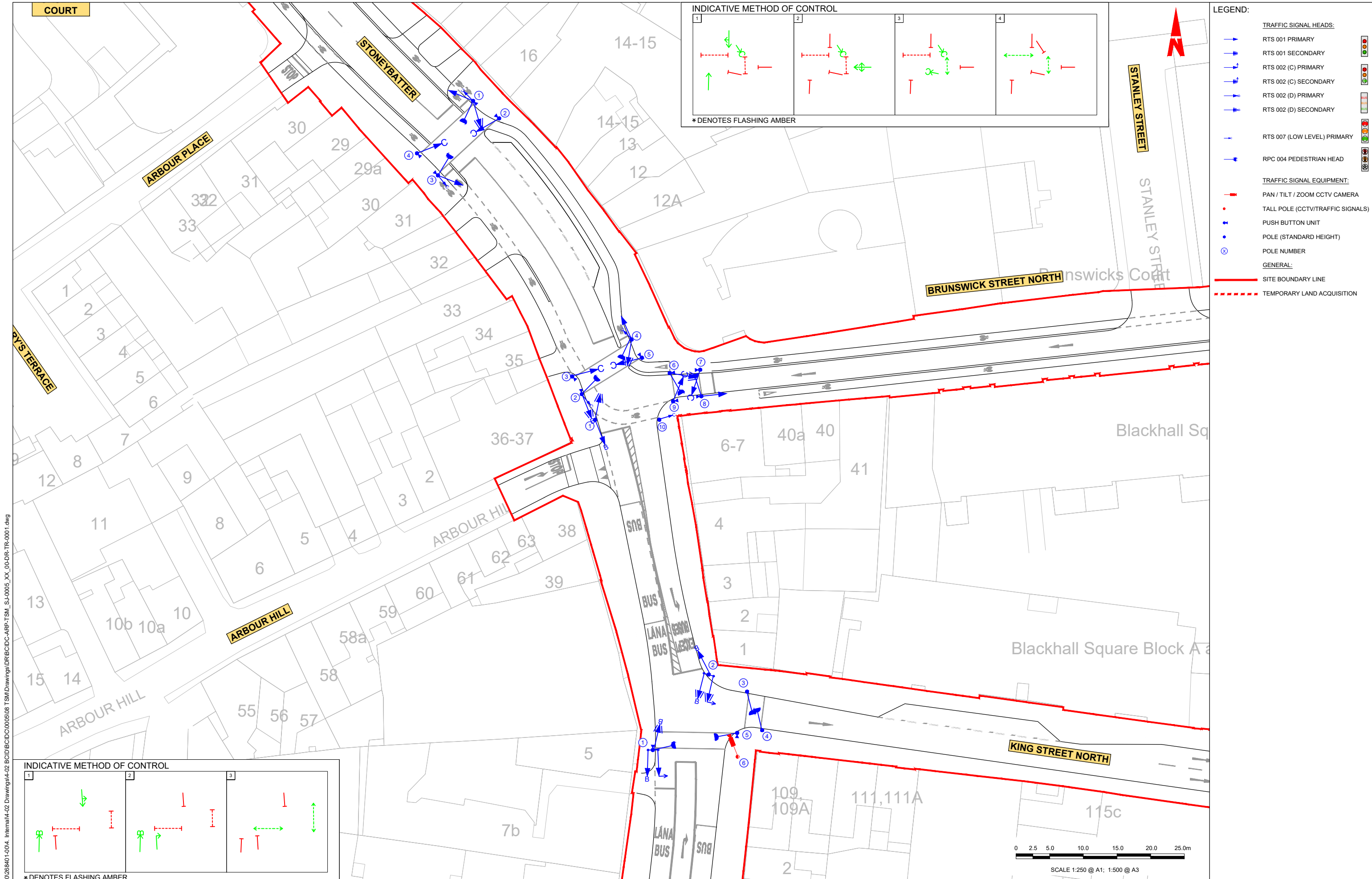
Engineering Designer: **ARUP**

Date: 04/04/2022 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: GMcT | Checked: GE | Approved: BD

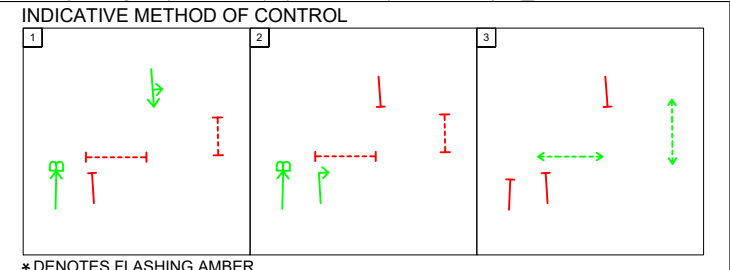
Project Code: BCIDC | Originator Code: ARP | OMS Code: 268401-00

Programme Title: <b>BUSCONNECTS DUBLIN</b>			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME			
JUNCTION SYSTEMS DESIGN			
MANOR STREET / KIRWAN STREET			
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0039	Sheet Number: 39 of 47	Status: A	Rev: M01

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- LEGEND:
- TRAFFIC SIGNAL HEADS:
    - RTS 001 PRIMARY
    - RTS 001 SECONDARY
    - RTS 002 (C) PRIMARY
    - RTS 002 (C) SECONDARY
    - RTS 002 (D) PRIMARY
    - RTS 002 (D) SECONDARY
    - RTS 007 (LOW LEVEL) PRIMARY
    - RPC 004 PEDESTRIAN HEAD
  - TRAFFIC SIGNAL EQUIPMENT:
    - PAN / TILT / ZOOM CCTV CAMERA
    - TALL POLE (CCTV/TRAFFIC SIGNALS)
    - PUSH BUTTON UNIT
    - POLE (STANDARD HEIGHT)
    - POLE NUMBER
  - GENERAL:
    - SITE BOUNDARY LINE
    - TEMPORARY LAND ACQUISITION



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Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

Udarás Náisiúnta Iompair  
National Transport Authority

Engineering Designer

ARUP

Programme Title

**BUSCONNECTS DUBLIN  
CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

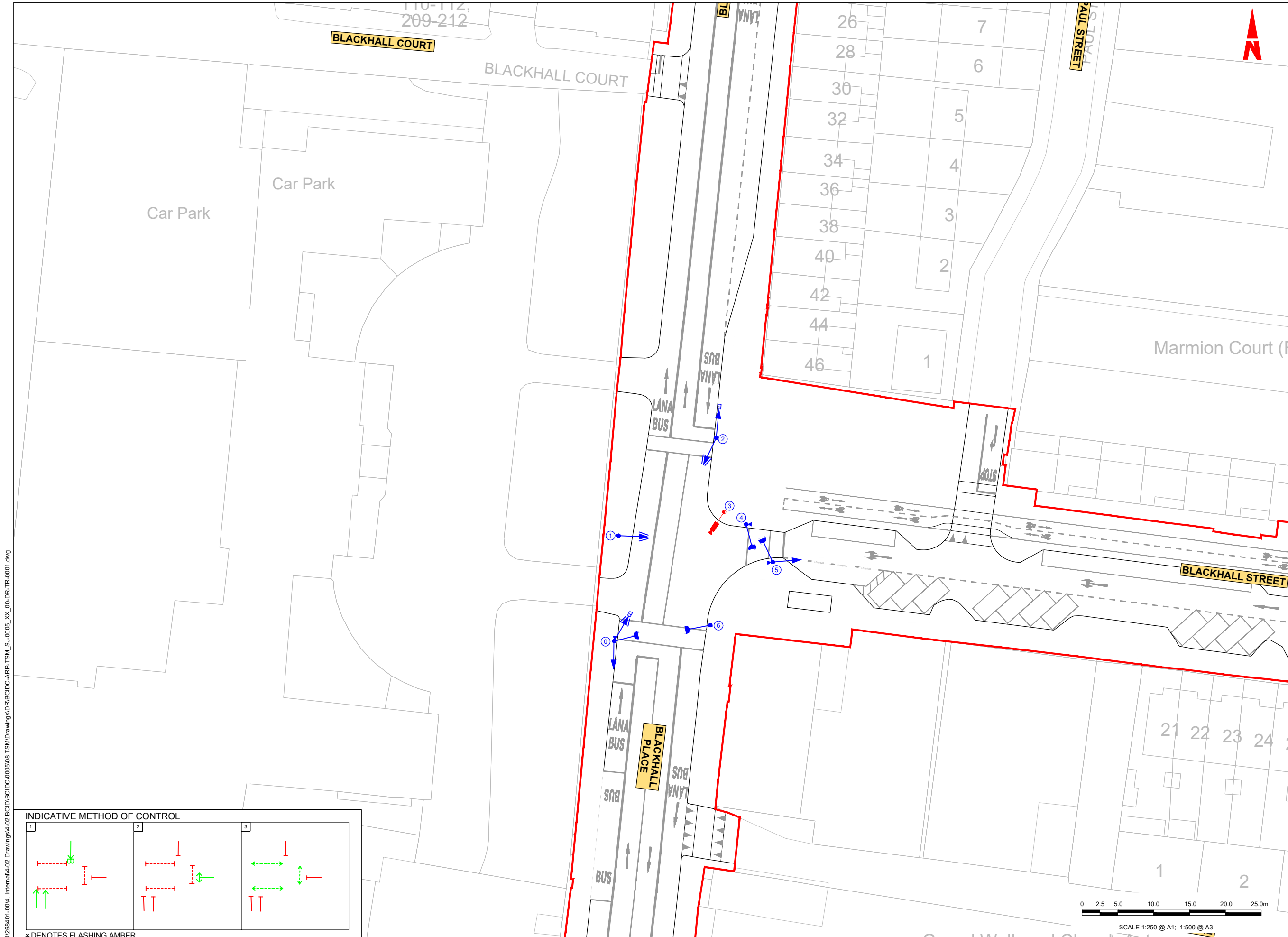
Drawing Title

BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME  
JUNCTION SYSTEMS DESIGN  
STONEYBATTER / BRUNSWICK STREET NORTH & BLACKHALL PLACE / KING STREET NORTH

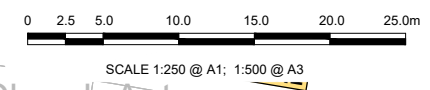
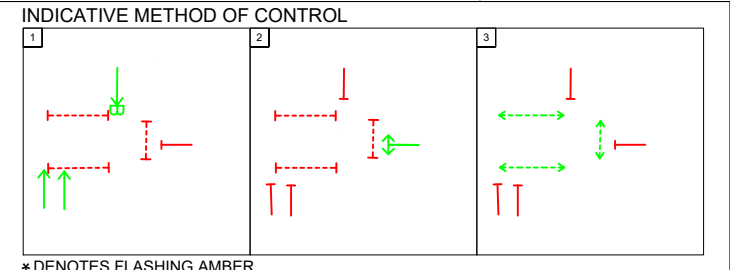
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Project Code	BCIDC	Originator Code	ARP	OMS Code	268401-00		Drawing File Name	BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0040	
Sheet Number	40 of 47	Status	A	Rev	M01				

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

Date: 04/04/2022  
Scale: 1:250 @ A1  
1:500 @ A3

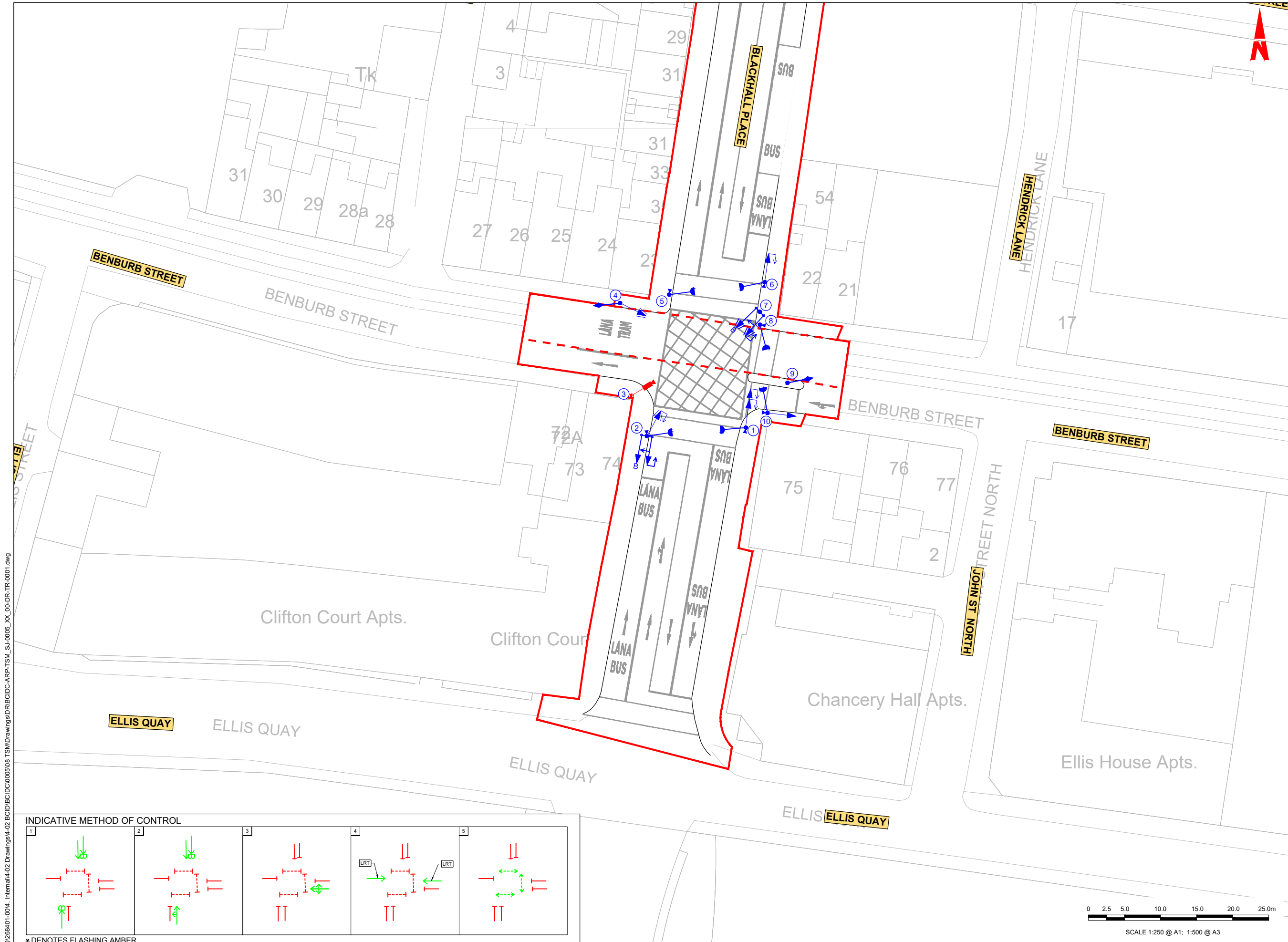
Drawn: GMcT  
Checked: GE  
Approved: BD

Project Code: BCIDC  
Originator Code: ARP  
OMS Code: 268401-00

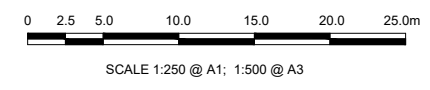
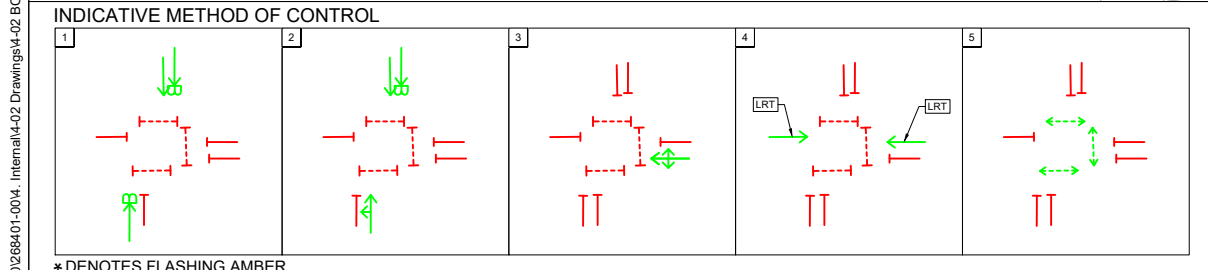
Programme Title	<b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title	BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN BLACKHALL PLACE / BLACKHALL STREET		
Drawing File Name	BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0041	Sheet Number	41 of 47
Status	A	Rev	M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
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  - RTS 001 SECONDARY
  - RTS 002 (B) PRIMARY
  - RTS 002 (B) SECONDARY
  - RTS 002 (D) PRIMARY
  - RTS 002 (D) SECONDARY
  - RTS 003 (H) PRIMARY
  - RTS 003 (H) SECONDARY
  - RTS 008 TRAM SIGNAL
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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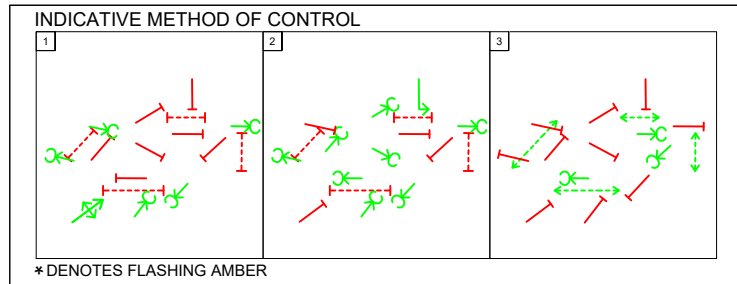
Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		BLACKHALL PLACE / BENBURB STREET		
Drawing File Name	Sheet Number	Status	Rev	
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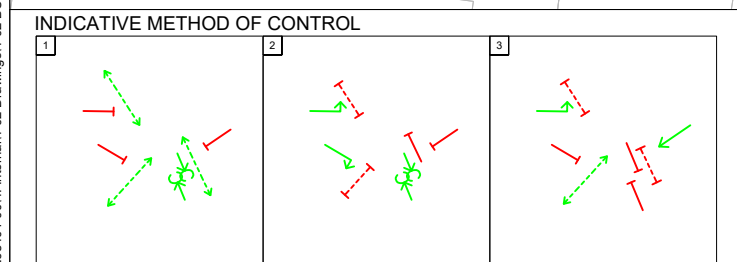
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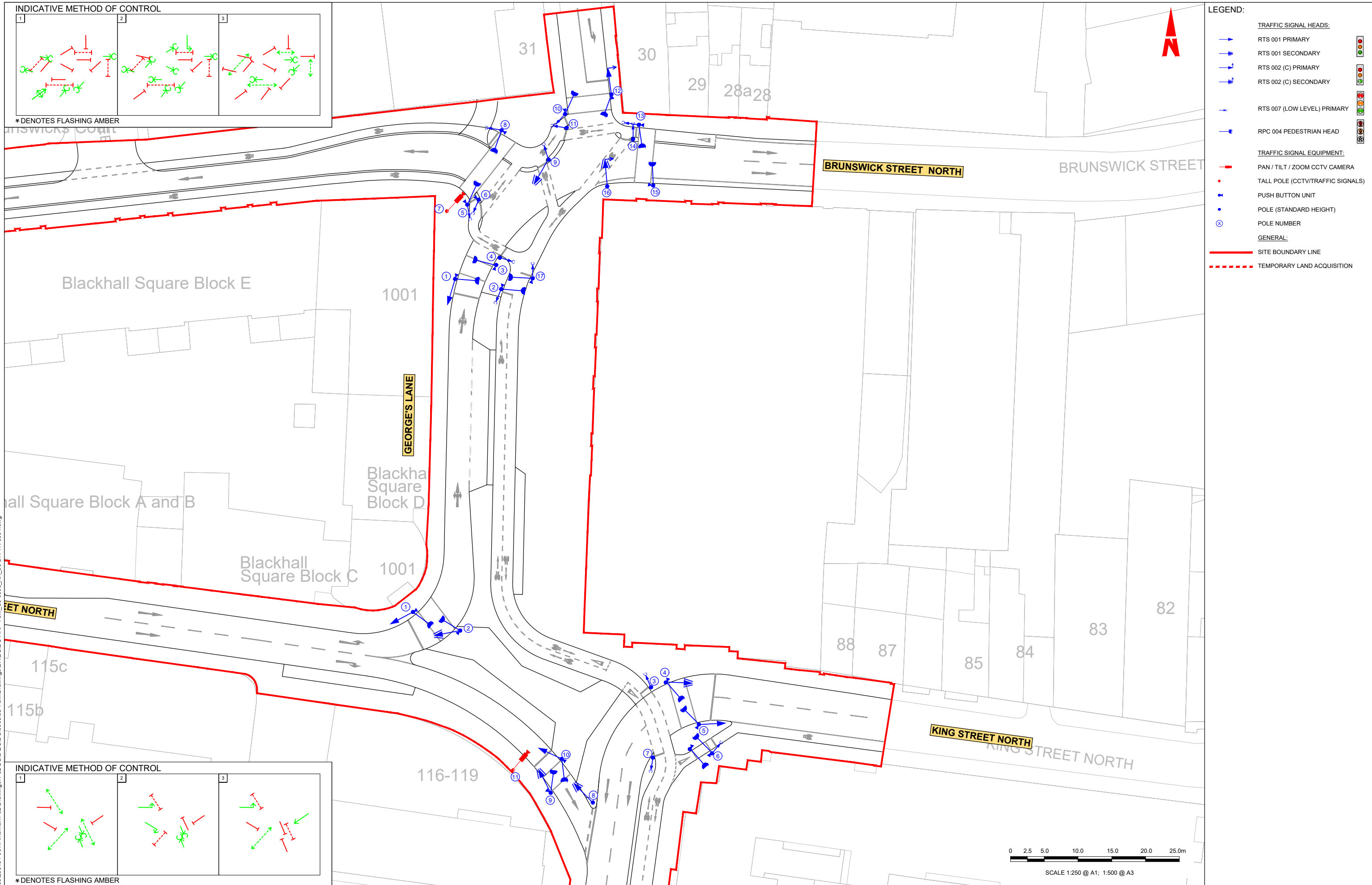




\* DENOTES FLASHING AMBER



\* DENOTES FLASHING AMBER



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
    - RTS 001 PRIMARY
    - RTS 001 SECONDARY
    - RTS 002 (C) PRIMARY
    - RTS 002 (C) SECONDARY
    - RTS 007 (LOW LEVEL) PRIMARY
    - RPC 004 PEDESTRIAN HEAD
  - TRAFFIC SIGNAL EQUIPMENT:**
    - PAN / TILT / ZOOM CCTV CAMERA
    - TALL POLE (CCTV/TRAFFIC SIGNALS)
    - PUSH BUTTON UNIT
    - POLE (STANDARD HEIGHT)
    - POLE NUMBER
  - GENERAL:**
    - SITE BOUNDARY LINE
    - TEMPORARY LAND ACQUISITION

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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

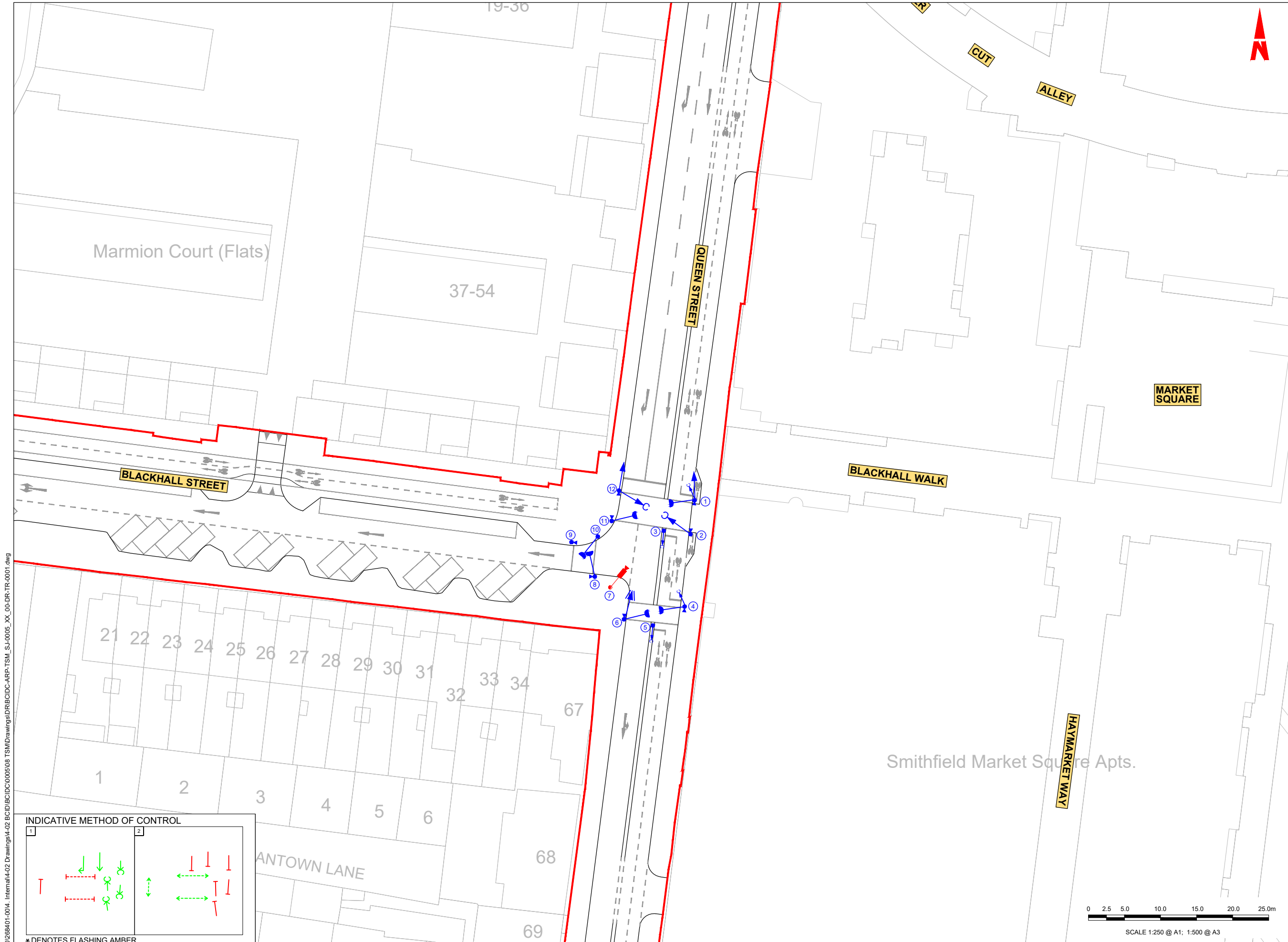
Engineering Designer: **ARUP**

Date: 04/04/2022  
 Scale: 1:250 @ A1, 1:500 @ A3  
 Drawn: GMcT, Checked: GE, Approved: BD

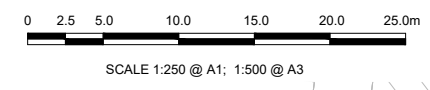
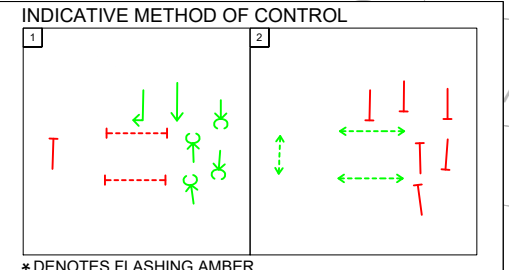
Project Code: BCIDC, Originator Code: ARP, OMS Code: 268401-00

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN</b>			
BRUNSWICK STREET NORTH / GRANGEGORMAN LOWER & KING STREET NORTH / QUEEN STREET			
Drawing File Name: BCIDC-APP-TSM_SJ-0005_XX_00-DR-TR-0043	Sheet Number: 43 of 47	Status: A	Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - SMALL POLE
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

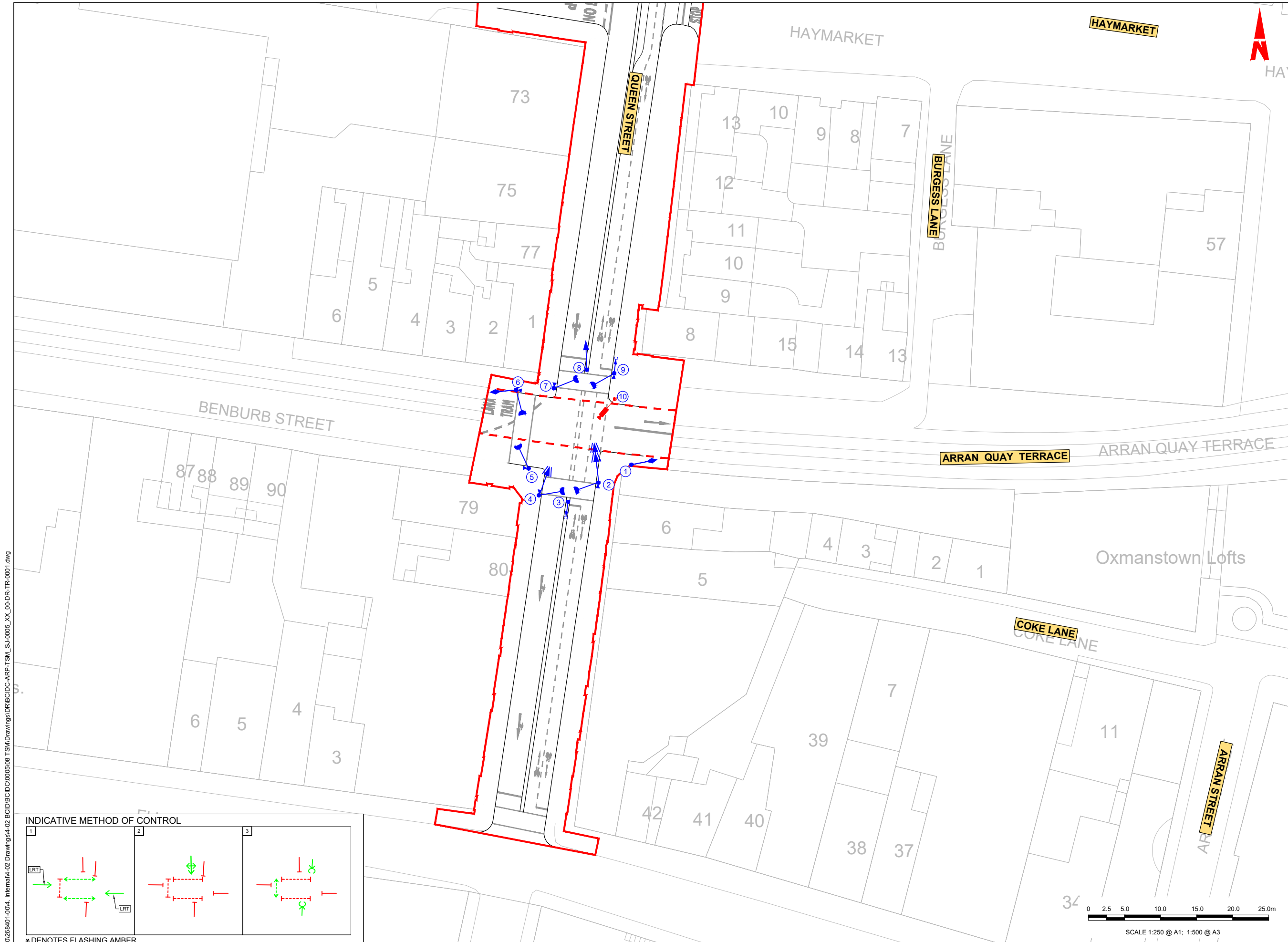
Client

Engineering Designer

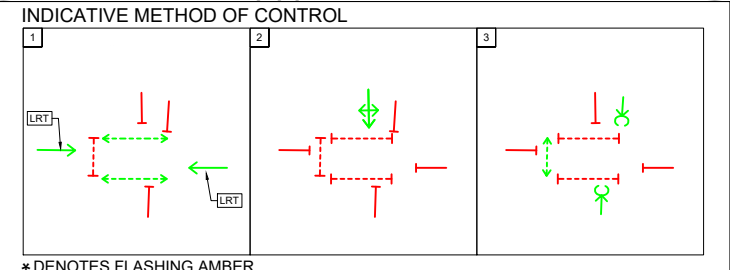
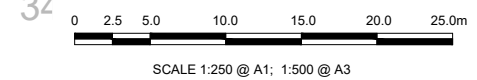
Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		QUEEN STREET / BLACKHALL STREET		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0044	44 of 47	A	M01	

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RTS 008 TRAM SIGNAL
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PAN / TILT / ZOOM CCTV CAMERA
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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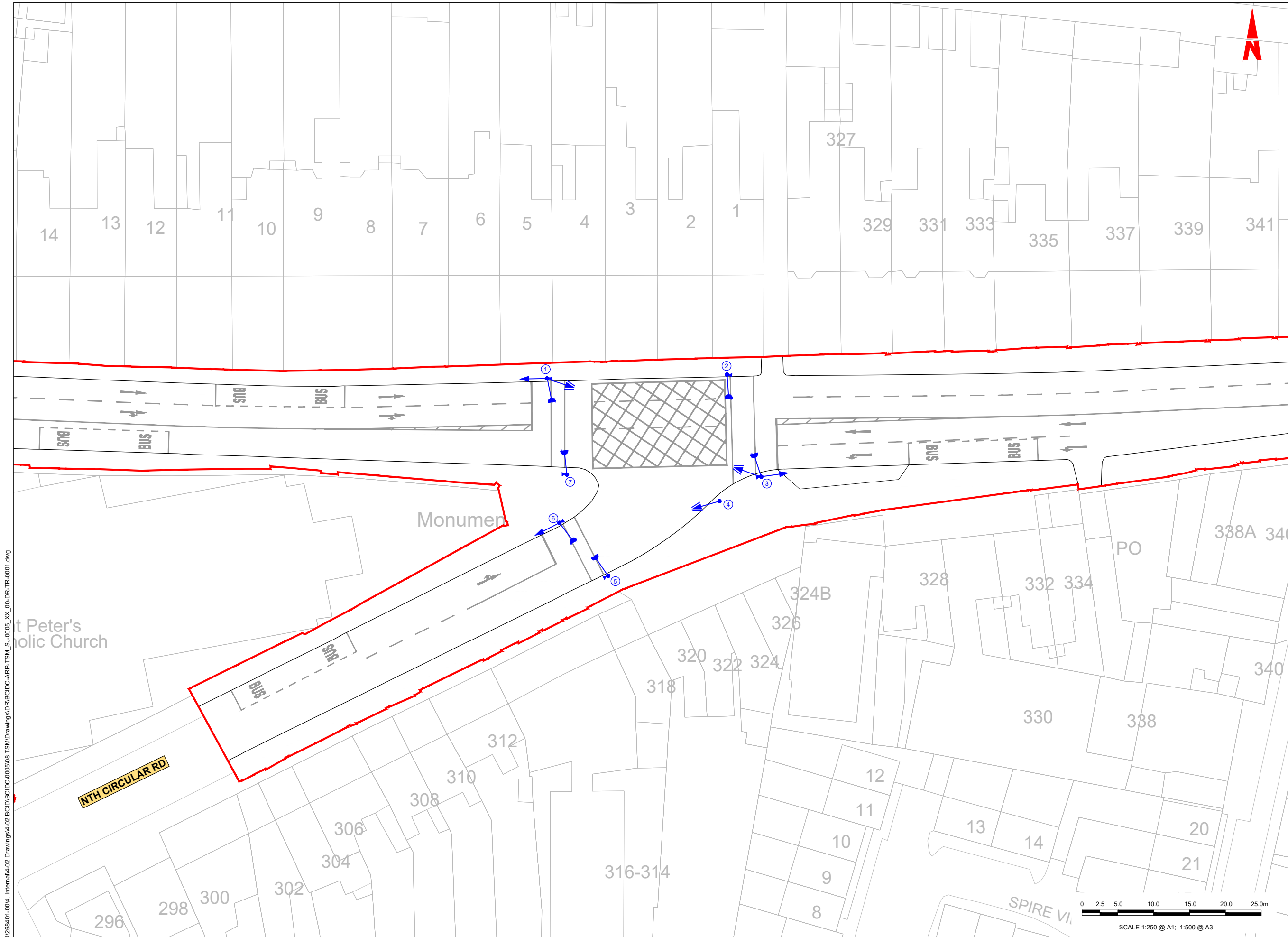
Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

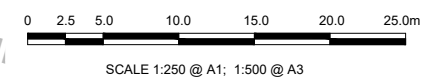
Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		QUEEN STREET / BENBURB STREET		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0045	45 of 47	A	M01	

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
    - RTS 001 PRIMARY
    - RTS 001 SECONDARY
    - RPC 004 PEDESTRIAN HEAD
  - TRAFFIC SIGNAL EQUIPMENT:**
    - PUSH BUTTON UNIT
    - POLE (STANDARD HEIGHT)
    - POLE NUMBER
  - GENERAL:**
    - SITE BOUNDARY LINE
    - TEMPORARY LAND ACQUISITION



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 t Peter's  
 olic Church  
 NTH CIRCULAR RD  
 296 298 300 302 304 306 308 310 312 316-314 318 320 322 324 324B 326 327 328 329 331 332 333 334 335 337 338 338A 340 341  
 PO  
 SPIRE VI  
 0 2.5 5.0 10.0 15.0 20.0 25.0m  
 SCALE 1:250 @ A1; 1:500 @ A3

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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **ARUP**

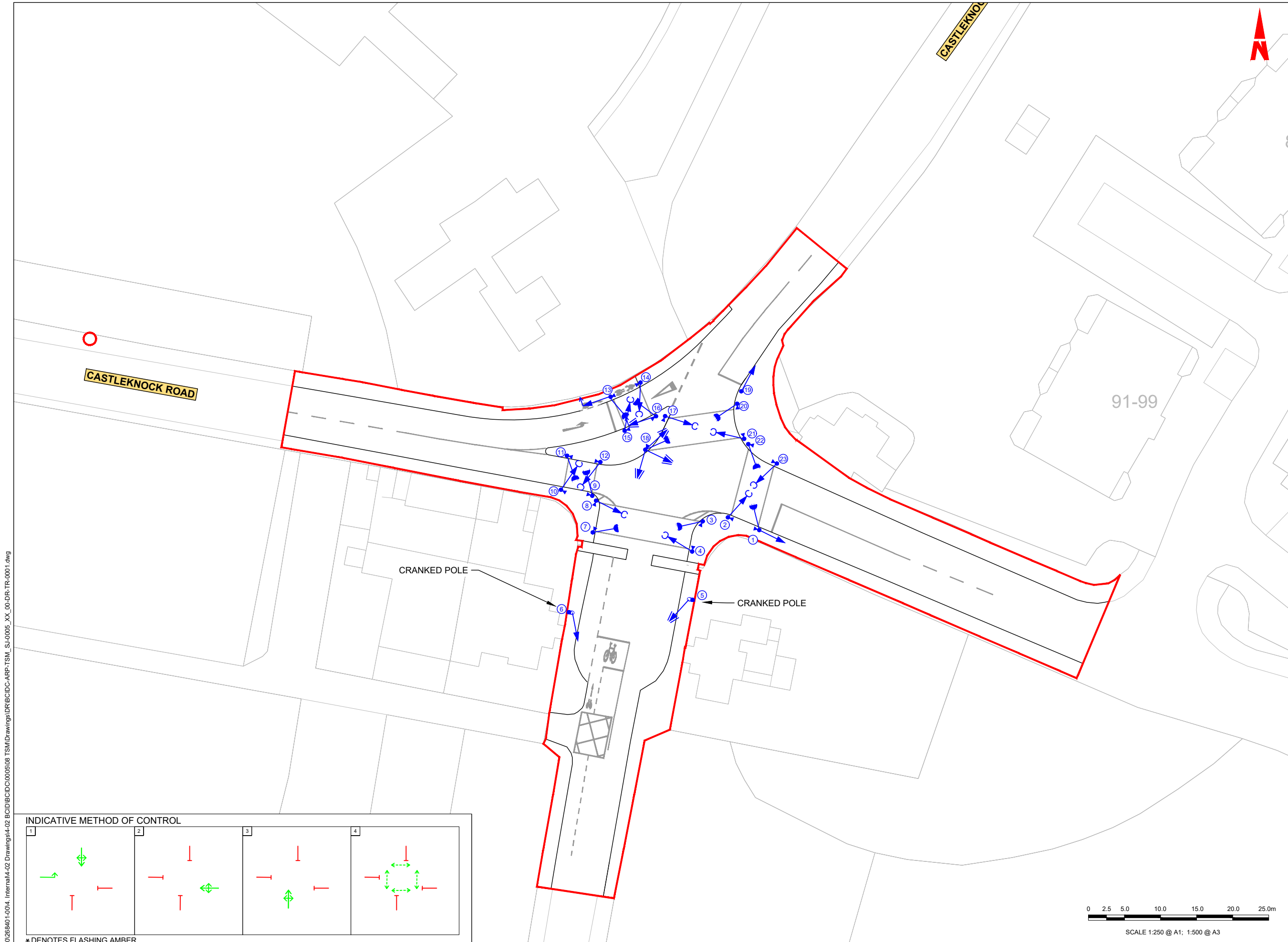
Date: 04/04/2022  
 Scale: 1:250 @ A1, 1:500 @ A3  
 Drawn: GMcT, Checked: GE, Approved: BD

Project Code: BCIDC, Originator Code: ARP, OMS Code: 268401-00

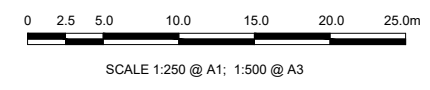
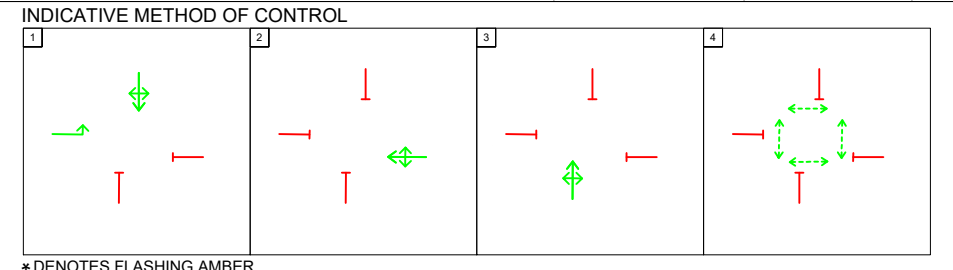
Programme Title: <b>BUSCONNECTS DUBLIN</b>			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN CABRA ROAD (DALYMOUNT) / NORTH CIRCULAR ROAD			
Drawing File Name: BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0046	Sheet Number: 46 of 47	Status: A	Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002 (A) PRIMARY
  - RTS 002 (A) SECONDARY
  - RTS 002 (C) PRIMARY
  - RTS 007 (HIGH LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- PUSH BUTTON UNIT
  - POLE (STANDARD HEIGHT)
  - POLE NUMBER
  - CRANKED POLE
- GENERAL:**
- SITE BOUNDARY LINE
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Rev	Date	Drn	Chk'd	App'd	Description
M01	04/04/2022	GMcT	GE	BD	ISSUE FOR PHASE 4: PLANNING

Client

Engineering Designer

Programme Title		<b>BUSCONNECTS DUBLIN</b>		
		<b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		BLANCHARDSTOWN TO CITY CENTRE CORE BUS CORRIDOR SCHEME		
		JUNCTION SYSTEMS DESIGN		
		CASTLEKNOCK ROAD / BLACKHORSE AVENUE		
Drawing File Name	Sheet Number	Status	Rev	
BCIDC-ARP-TSM_SJ-0005_XX_00-DR-TR-0047	47 of 47	A	M01	

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