## **Appendix B4** Typical Cross Sections



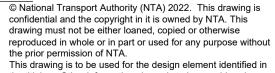


# **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

## **TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE CORE BUS CORRIDOR SCHEME**

### DRAWING SERIES NUMBER(S)

BCIDC-ARP-GEO\_IX-1012\_XX\_00-DR-CR-0002 BCIDC-ARP-GEO\_CS-1012\_XX\_00-DR-CR-0001 to 0019



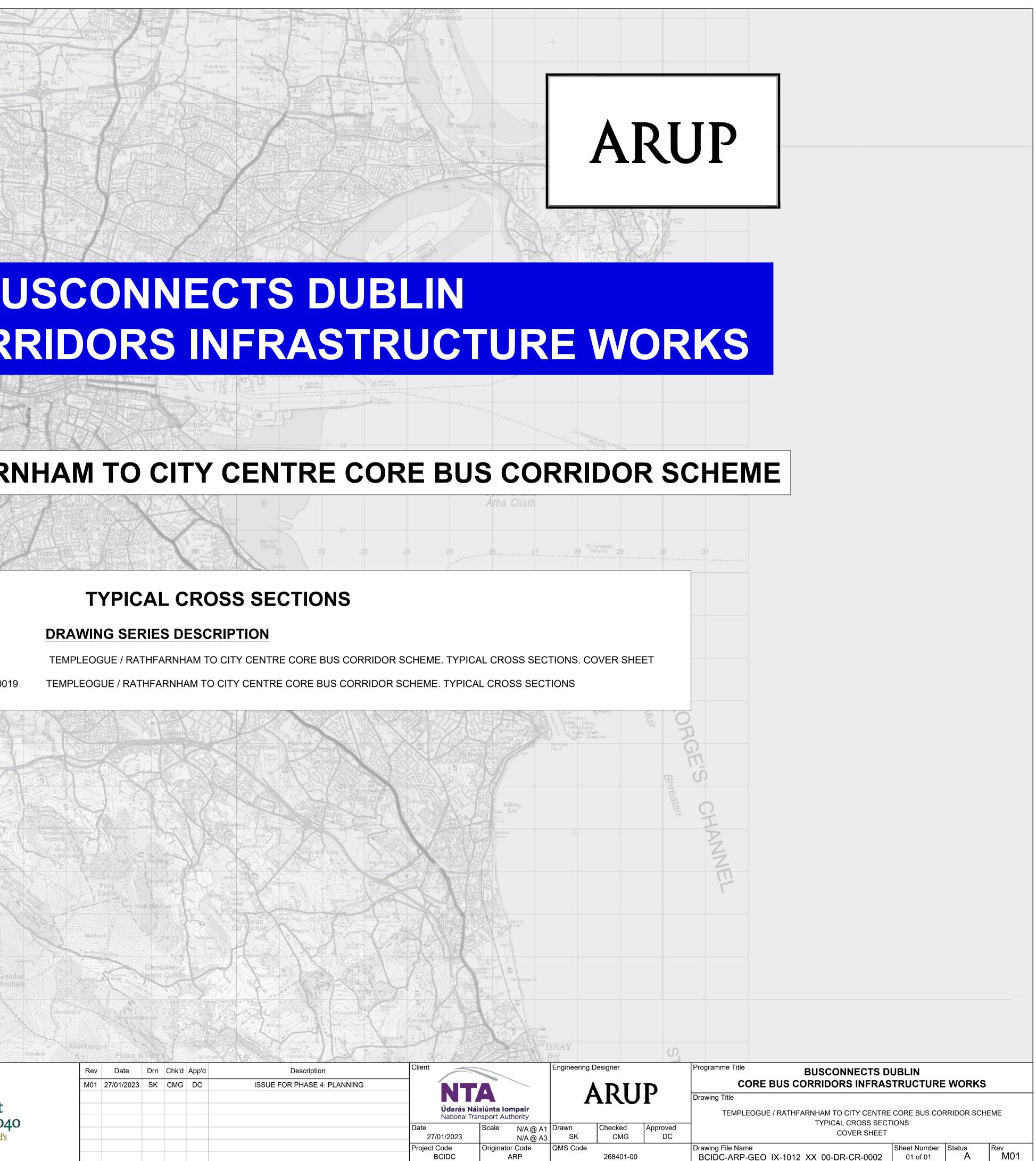
- This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
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- GPS station. d. Information 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contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded.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.

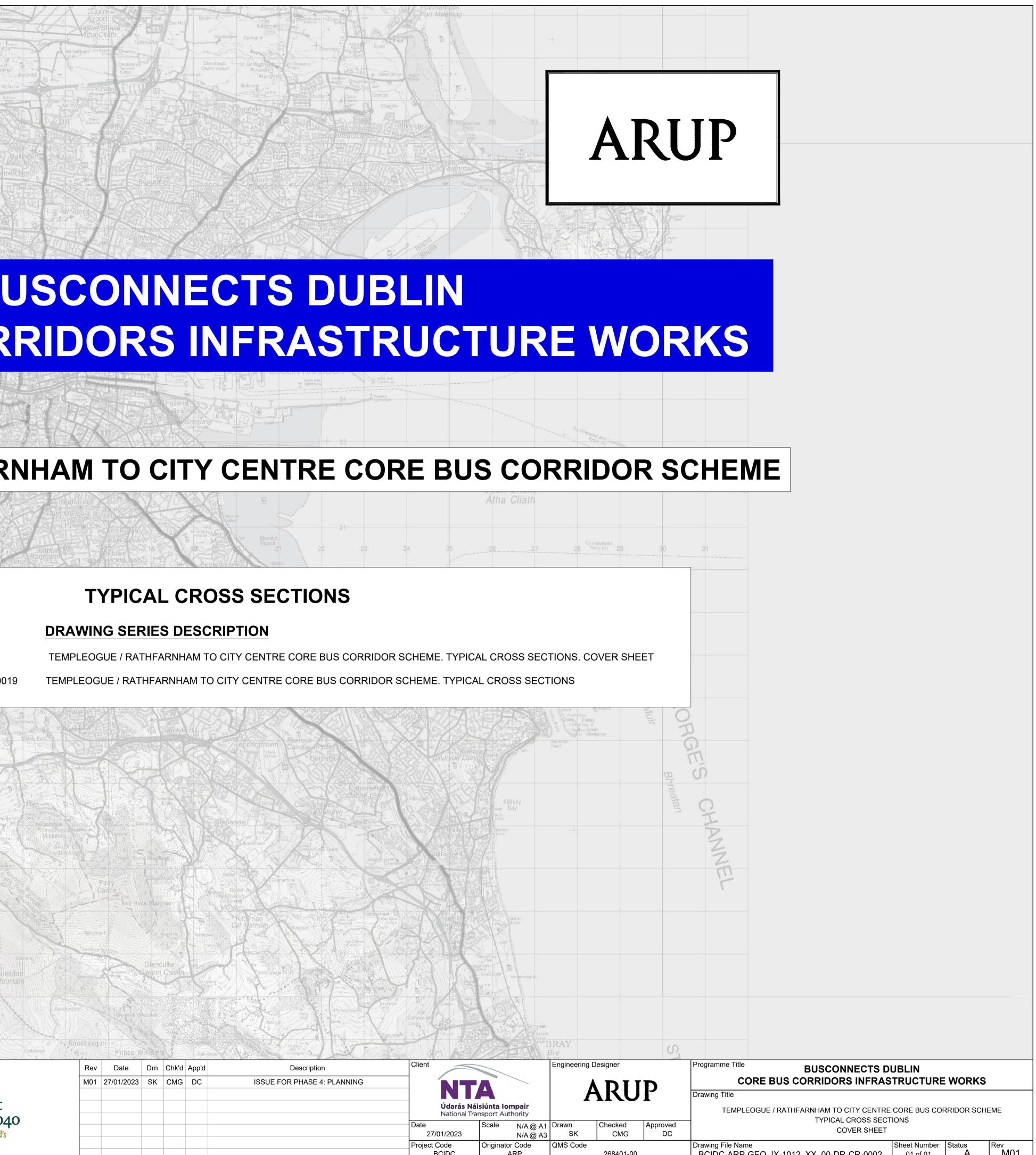
Transverse Mercator Grid (ITM) as defined by OSi active local e.

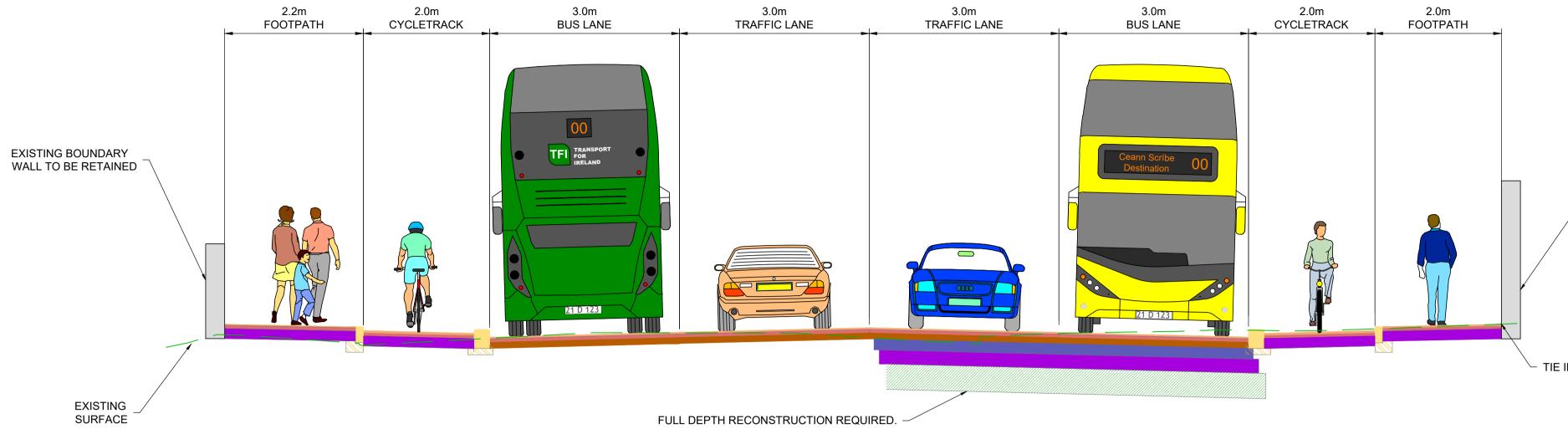
NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the 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.

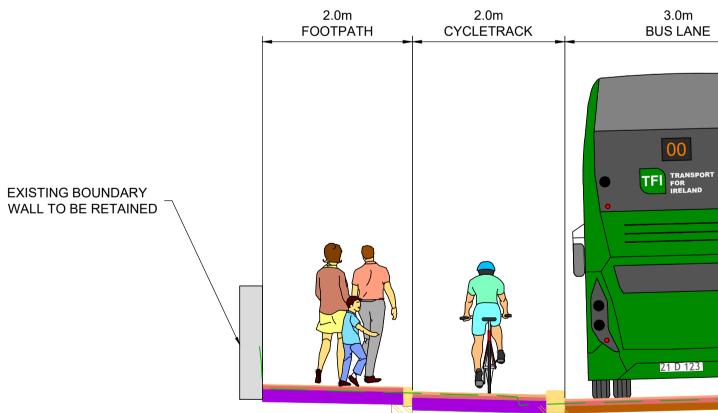
The information contained herein has been provided by the











WALL TO BE RETAINED



Future

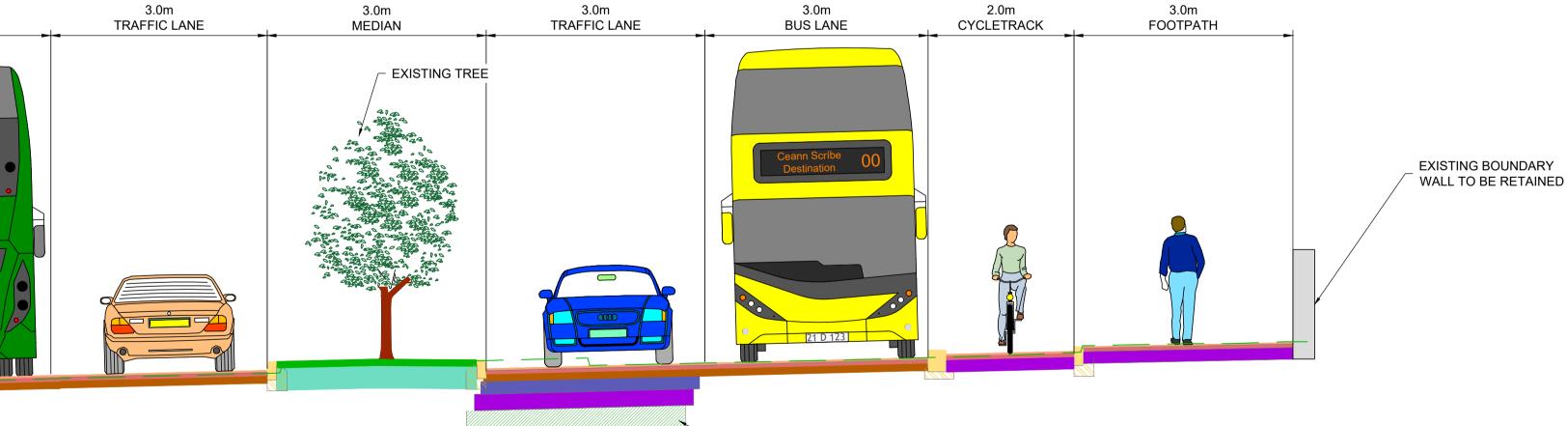
indicative only. The drawing is to be read in conjunction with all other relevant design drawings. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSi\_NMA\_180 National Transport Authority. All elevations are in metres and relate to OSi Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish

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.

Transverse Mercator Grid (ITM) as defined by OSi active local 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.

**TYPICAL SECTION A-A** GRANGE ROAD

LOCATED ON GA SHEET 01 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0001



FULL DEPTH RECONSTRUCTION REQUIRED.

#### TYPICAL SECTION B-B RATHFARNHAM ROAD

LOCATED ON GA SHEET 02 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0002

	Rev				App'd	Description	Client		Engineering	Designer		Programme Title BUSCONNECTS D			
	M01	27/01/2023	SK	CMG	DC	ISSUE FOR PHASE 4: PLANNING	NT			ARU	IP	CORE BUS CORRIDORS INFRAS	SIRUCIURE	WORKS	)
ct							Údarás N	<b>áisiúnta Iompair</b> ransport Authority			-	TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE		RIDOR SCH	IEME
2040 and's							Date 27/01/2023	Scale 1:50@A 1:100@A3		Checked CMG	Approved DC	TYPICAL CROSS SEC	HONS		
							Project Code BCIDC	Originator Code ARP	QMS Code	268401-00	•	Drawing File Name BCIDC-ARP-GEO CS-1012 XX 01-DR-CR-0001	Sheet Number 01 of 19	Status A	Rev M01



### - TIE IN TO EXISTING

#### LIGHTING COLUMN

EXISTING BOUNDARY WALL TO BE RETAINED

FULL DEPTH RECONSTRUCTION REQUIRED.

2.0m FOOTPATH

BOUNDARY WALL TO BE

information or any part of it). Any liabilities are hereby

expressly disclaimed.



	NOTES:		
1. 2. 3. 4.	FOR SECTION LOCATIONS SEE DRAWINGS SERIES GEO_GA THE BOUNDARY TREATMENT SHOWN IS INDICATIVE ONLY. THE PROPOSED PAVEMENT CONSTRUCTION IS INDICATIVE ONLY. THE LOCATION AND HEIGHTS OF TREES ARE INDICATIVE ONLY. FURTHER DETAILS ARE SHOWN ON LANDSCAPING DRAWINGS SERIES ENV_LA.		
5. 6.	THE LOCATION, HEIGHT AND TYPE OF ALL LIGHTING COLUMNS ARE INDICATIVE ONLY. FOR INDICATIVE LOCATIONS REFER TO LIGHTING DRAWINGS SERIES LHT_RL. FOR DETAILS OF PROPOSED RETAINING WALLS, REFER TO DRAWINGS		
7.	SERIES STR_RW. THE EXISTING SURFACE REPRESENTS THE TOPOGRAPHICAL SURVEY INFORMATION RECEIVED FROM NTA, WHICH HAS BEEN USED TO INFORM THE DESIGN OF THE SCHEME.		
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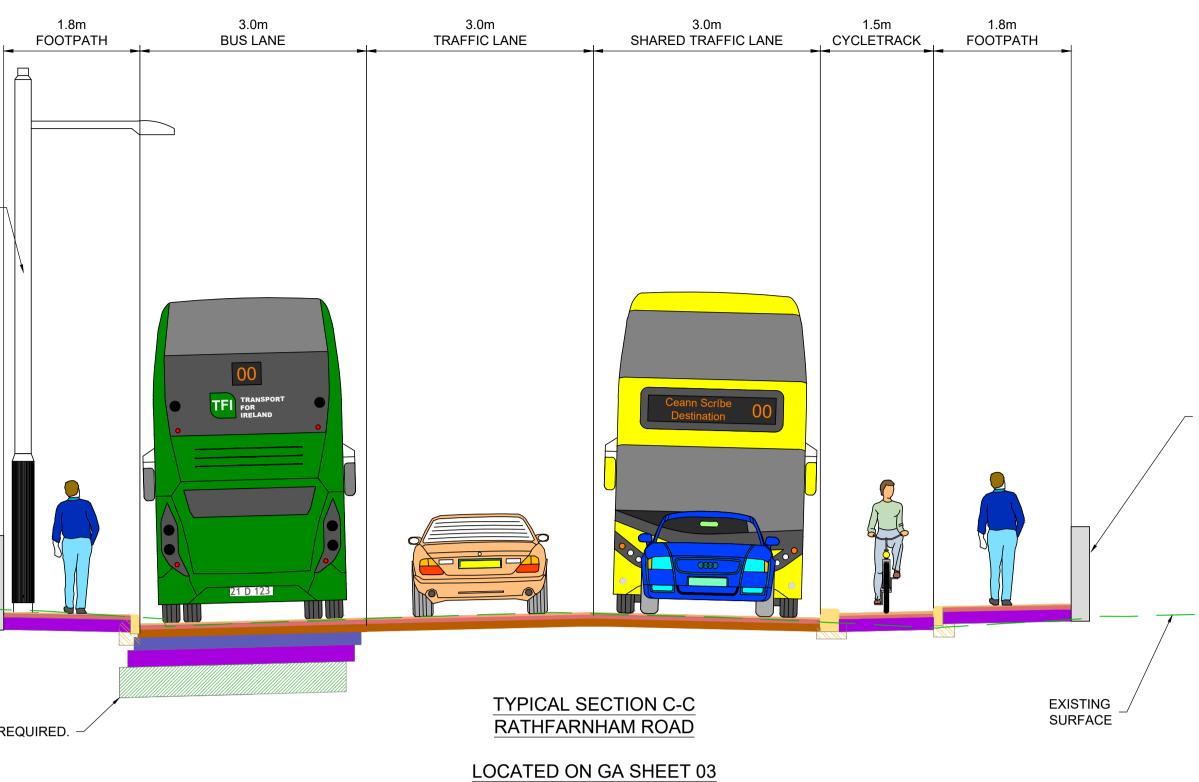
contained herein does not purport to be comprehensive or final

as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities

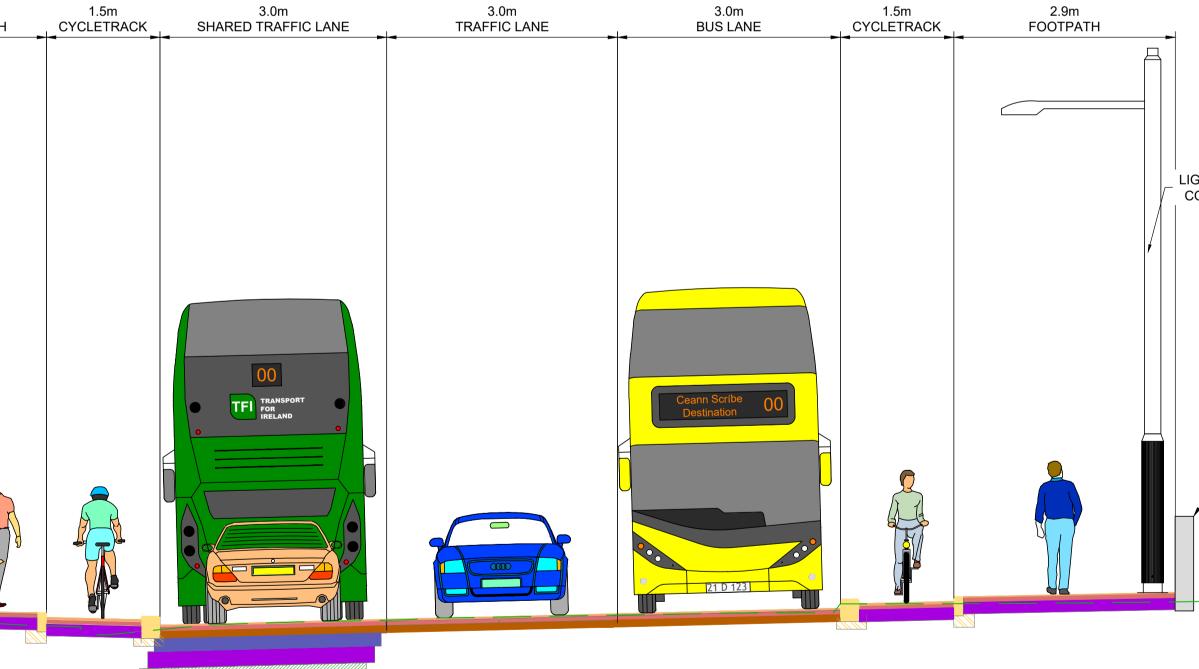
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elevations are in metres and relate to OSi Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish



### DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0003



### TYPICAL SECTION D-D RATHFARNHAM ROAD

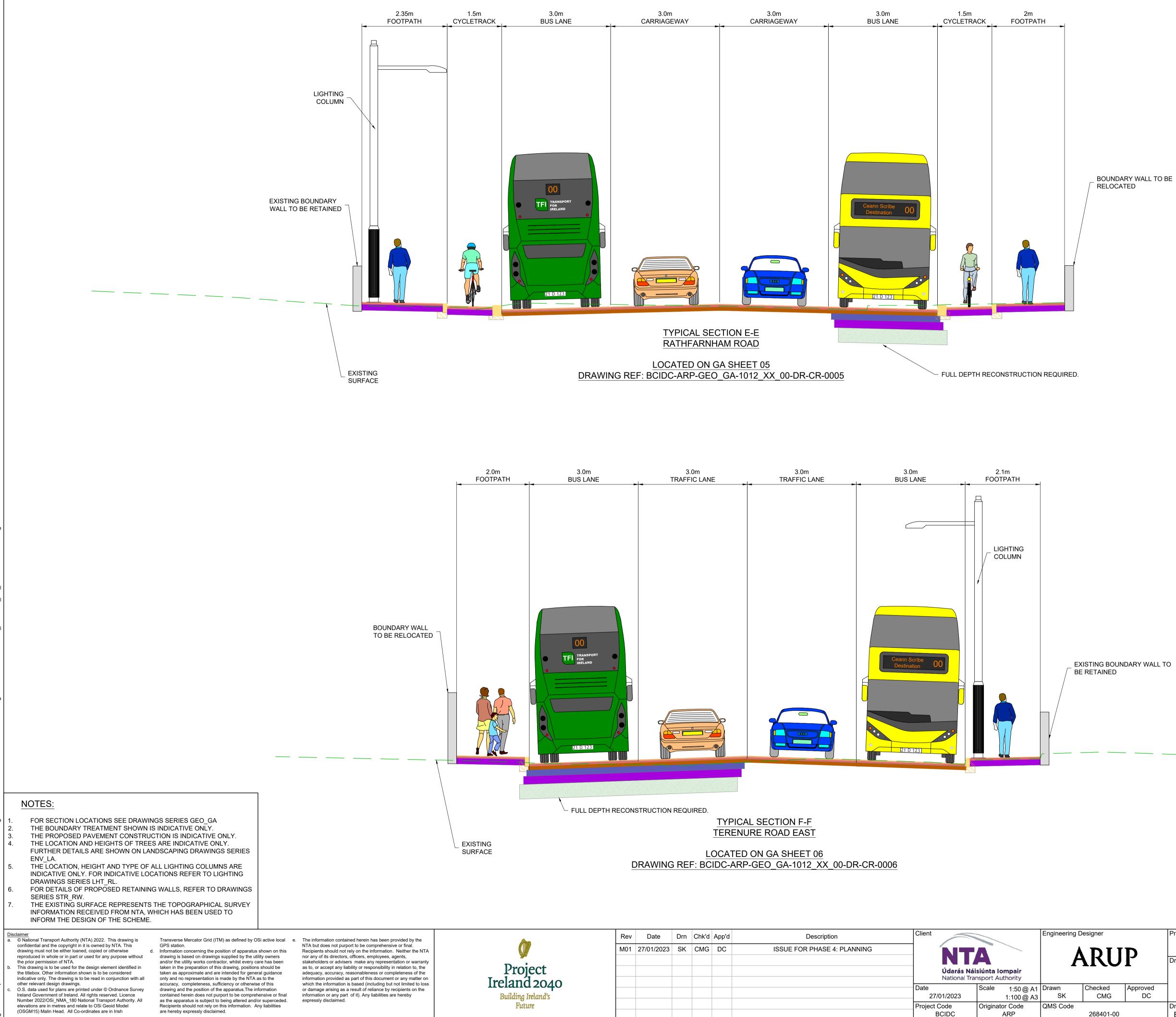
LOCATED ON GA SHEET 04 DRAWING REF: BCIDC-ARP-GEO GA-1012 XX 00-DR-CR-0004

	Rev M01	Date 27/01/2023	Drn Chk SK CM	· · ·	Description ISSUE FOR PHASE 4: PLANN	Client		Engineering		ת	Programme Title BUSCONNECTS E CORE BUS CORRIDORS INFRAS	-	E WORKS	;
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and's						Date 27/01/2023	Scale 1:50 @ A 1:100 @ A		Checked CMG	Approved DC				
						Project Code BCIDC	Originator Code ARP	QMS Code	268401-00	·	Drawing File Name BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-0002	Sheet Number 02 of 19	Status A	Rev M01
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EXISTING BOUNDARY WALL TO BE RETAINED

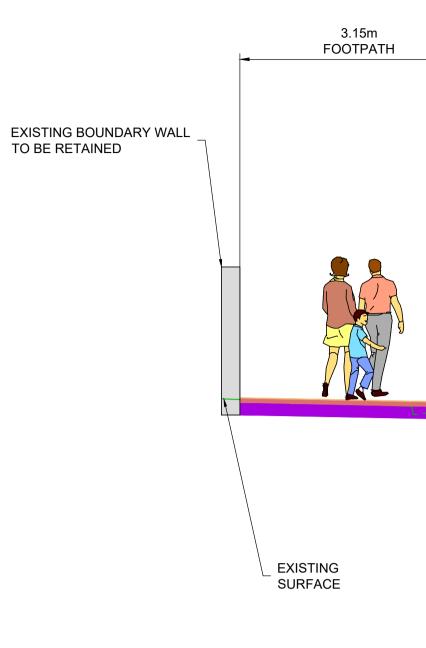
LIGHTING COLUMN

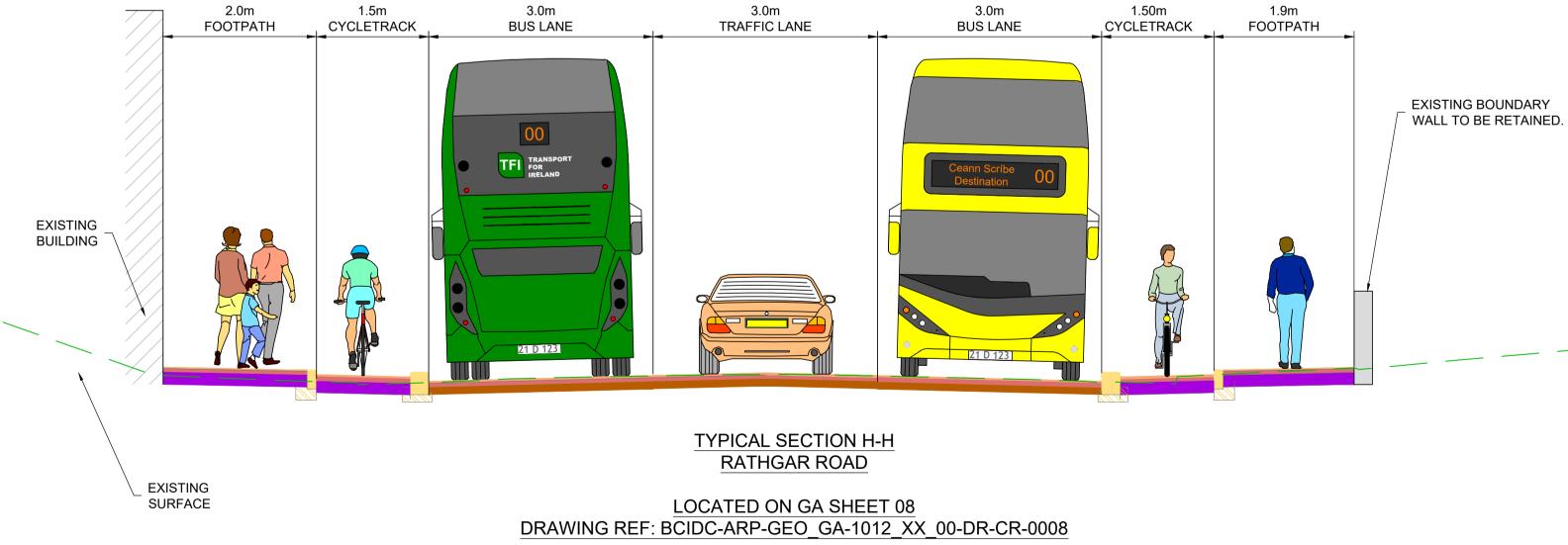
> EXISTING BOUNDARY WALL TO BE RETAINED



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			Project Code BCIDC	Originator Code ARP	QMS Code	268401-00	·	Drawing File Name BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-0003	Sheet Number 03 of 19	Status A	Rev M01

EXISTING BOUNDARY WALL TO



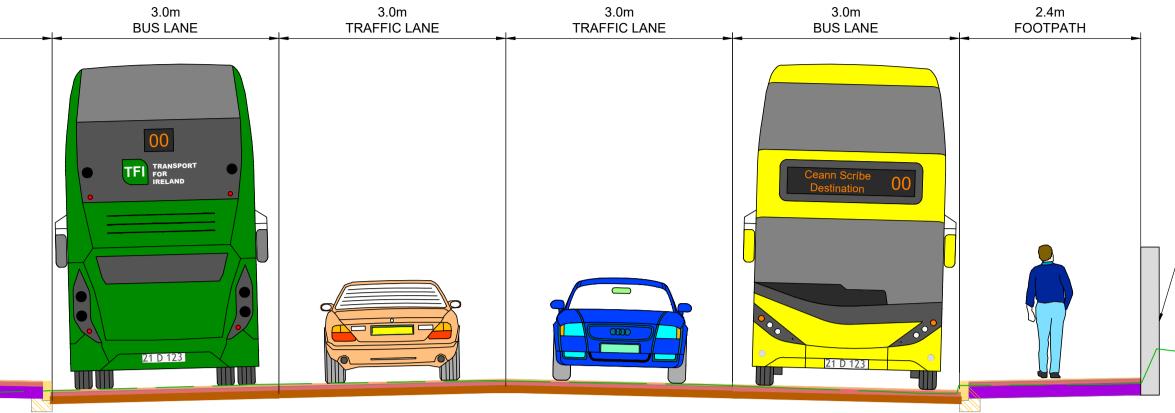


	NOTES:			
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2.	THE BOUNDARY TREATMENT SHOWN			
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	DRAWINGS SERIES LHT_RL.			
6.	FOR DETAILS OF PROPOSED RETAININ	١G	WALLS. REFER TO DRAWINGS	
	SERIES STR RW.			
7.	THE EXISTING SURFACE REPRESENTS	sт	HE TOPOGRAPHICAL SURVEY	
	INFORMATION RECEIVED FROM NTA, V	WΗ	IICH HAS BEEN USED TO	
	INFORM THE DESIGN OF THE SCHEME	Ξ.		
Disc a.	<u>laimer</u> © National Transport Authority (NTA) 2022. This drawing is		Transverse Mercator Grid (ITM) as defined by O	Si active local
<b>u</b> .	confidential and the copyright in it is owned by NTA. This		GPS station.	
	drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without	d.	Information concerning the position of apparatus drawing is based on drawings supplied by the uti	
	the prior permission of NTA.		and/or the utility works contractor, whilst every ca	
b.	This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered		taken in the preparation of this drawing, positions	
	indicative only. The drawing is to be read in conjunction with all		taken as approximate and are intended for gener only and no representation is made by the NTA a	
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C.	O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence		drawing and the position of the apparatus. The in contained herein does not purport to be compreh	
	Number 2022/OSi_NMA_180 National Transport Authority. All		as the apparatus is subject to being altered and/o	or superceded.
	elevations are in metres and relate to OSi Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish		Recipients should not rely on this information. An are hereby expressly disclaimed.	ny liabilities
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2. 3.



#### **TYPICAL SECTION G-G** TERENURE ROAD EAST

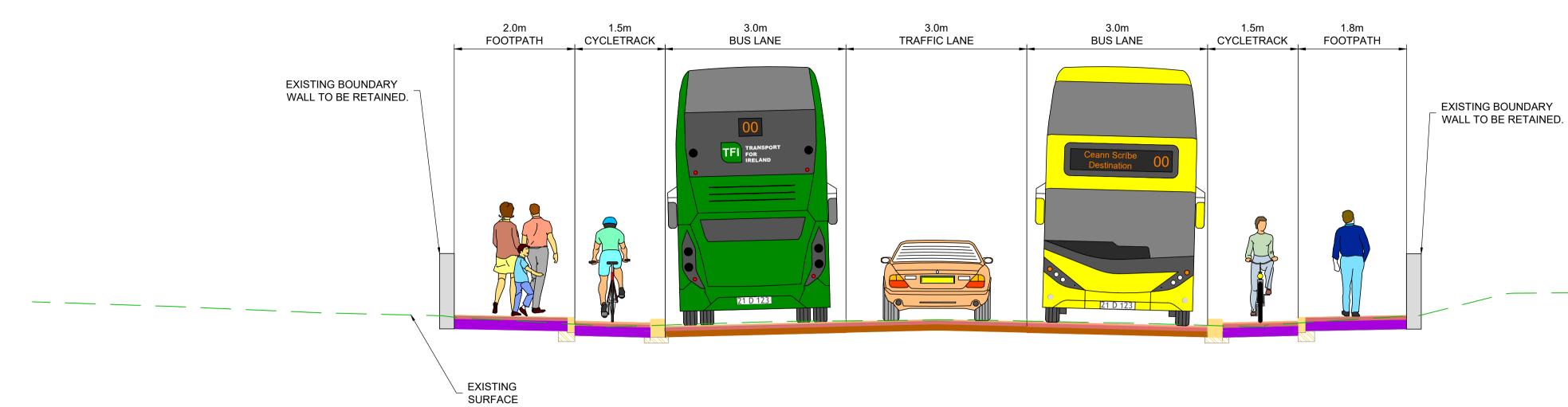
LOCATED ON GA SHEET 07 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0007

	Rev	Date	Drn	Chk'd	App'd	Description	Client				Engineering D	esigner	
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EXISTING BOUNDARY WALL TO BE RETAINED

Programme Title **BUSCONNECTS DUBLIN** CORE BUS CORRIDORS INFRASTRUCTURE WORKS JP Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE CORE BUS CORRIDOR SCHEME TYPICAL CROSS SECTIONS Approved DC Drawing File Name Sheet Number Status Rev M01 BCIDC-ARP-GEO\_CS-1012\_XX\_01-DR-CR-0004 04 of 19 Α







NOTES:	
<ul> <li>FOR SECTION LOCATIONS SEE DRAW</li> <li>THE BOUNDARY TREATMENT SHOWN</li> <li>THE PROPOSED PAVEMENT CONSTRUCTION AND HEIGHTS OF TREE</li> <li>FURTHER DETAILS ARE SHOWN ON LAIN</li> <li>ENV_LA.</li> <li>THE LOCATION, HEIGHT AND TYPE OF</li> <li>INDICATIVE ONLY. FOR INDICATIVE LOCE</li> <li>DRAWINGS SERIES LHT_RL.</li> <li>FOR DETAILS OF PROPOSED RETAINI</li> <li>SERIES STR_RW.</li> <li>THE EXISTING SURFACE REPRESENT</li> <li>INFORMATION RECEIVED FROM NTA,</li> <li>INFORM THE DESIGN OF THE SCHEME</li> </ul>	I IS INDICATIVE ONLY. UCTION IS INDICATIVE ONLY. EES ARE INDICATIVE ONLY. ANDSCAPING DRAWINGS SERIES FALL LIGHTING COLUMNS ARE DCATIONS REFER TO LIGHTING NG WALLS, REFER TO DRAWINGS TS THE TOPOGRAPHICAL SURVEY WHICH HAS BEEN USED TO
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OSi active local 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.



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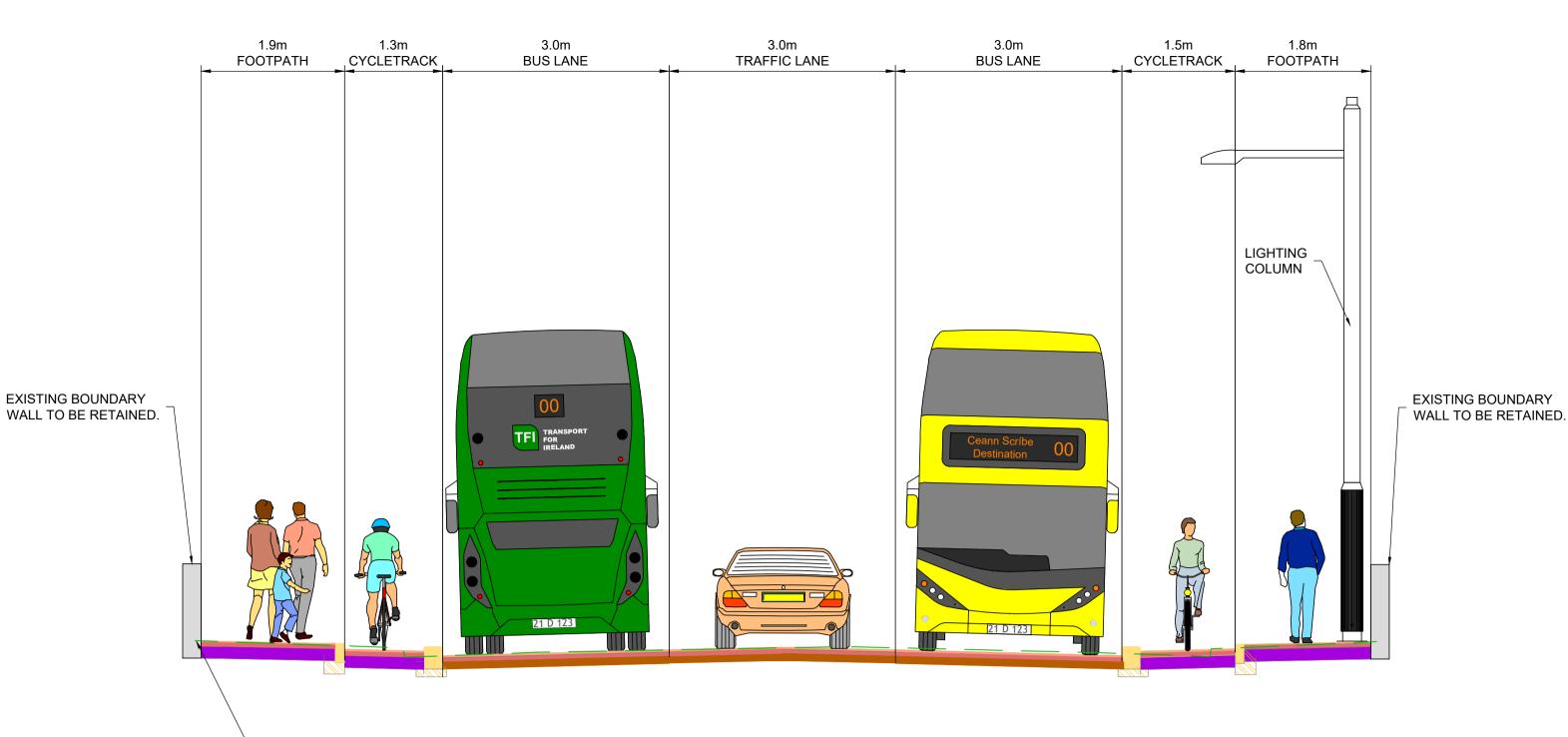
Disclai elevations are in metres and relate to OSi Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish **TYPICAL SECTION I-I** RATHGAR ROAD

LOCATED ON GA SHEET 09 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0009

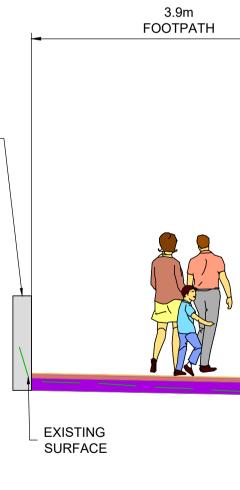
### **TYPICAL SECTION J-J** RATHGAR ROAD

LOCATED ON GA SHEET 10 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0010

	Rev         Date           M01         27/01/2023	Chk'd A	 Description ISSUE FOR PHASE 4: PLANNING	Client	ITA		Engineering D	0	ח	Programme Title BUSCONNECTS D CORE BUS CORRIDORS INFRAS		RKS
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				Project Code BCIDC		ginator Code ARP	QMS Code	268401-00	•	Drawing File Name BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-0005	Sheet Number Statu 05 of 19	Rev M0



EXISTING SURFACE



#### NOTES: FOR SECTION LOCATIONS SEE DRAWINGS SERIES GEO\_GA THE BOUNDARY TREATMENT SHOWN IS INDICATIVE ONLY. THE PROPOSED PAVEMENT CONSTRUCTION IS INDICATIVE ONLY. 3 THE LOCATION AND HEIGHTS OF TREES ARE INDICATIVE ONLY. FURTHER DETAILS ARE SHOWN ON LANDSCAPING DRAWINGS SERIES ENV LA. THE LOCATION, HEIGHT AND TYPE OF ALL LIGHTING COLUMNS ARE INDICATIVE ONLY. FOR INDICATIVE LOCATIONS REFER TO LIGHTING DRAWINGS SERIES LHT\_RL. FOR DETAILS OF PROPOSED RETAINING WALLS, REFER TO DRAWINGS SERIES STR RW. THE EXISTING SURFACE REPRESENTS THE TOPOGRAPHICAL SURVEY INFORMATION RECEIVED FROM NTA, WHICH HAS BEEN USED TO INFORM THE DESIGN OF THE SCHEME. Disclaimer a. © National Transport Authority (NTA) 2022. This drawing is Transverse Mercator Grid (ITM) as defined by OSi active local e. The information contained herein has been provided by the confidential and the copyright in it is owned by NTA. This GPS station. d. Information concerning the position of apparatus shown on this drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without drawing is based on drawings supplied by the utility owners the prior permission of NTA. and/or the utility works contractor, whilst every care has been This drawing is to be used for the design element identified in taken in the preparation of this drawing, positions should be 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. 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

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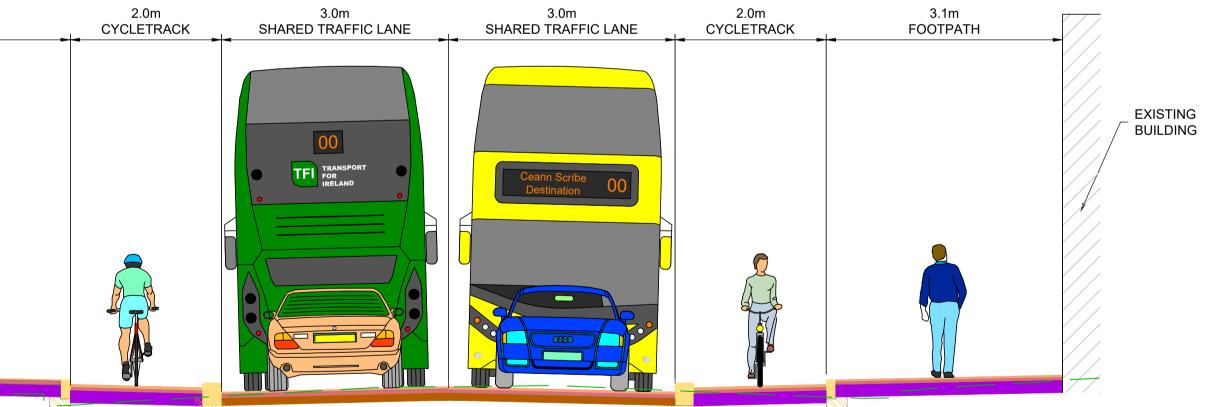
EXISTING BOUNDARY

WALL TO BE RETAINED.



**TYPICAL SECTION K-K** RATHGAR ROAD

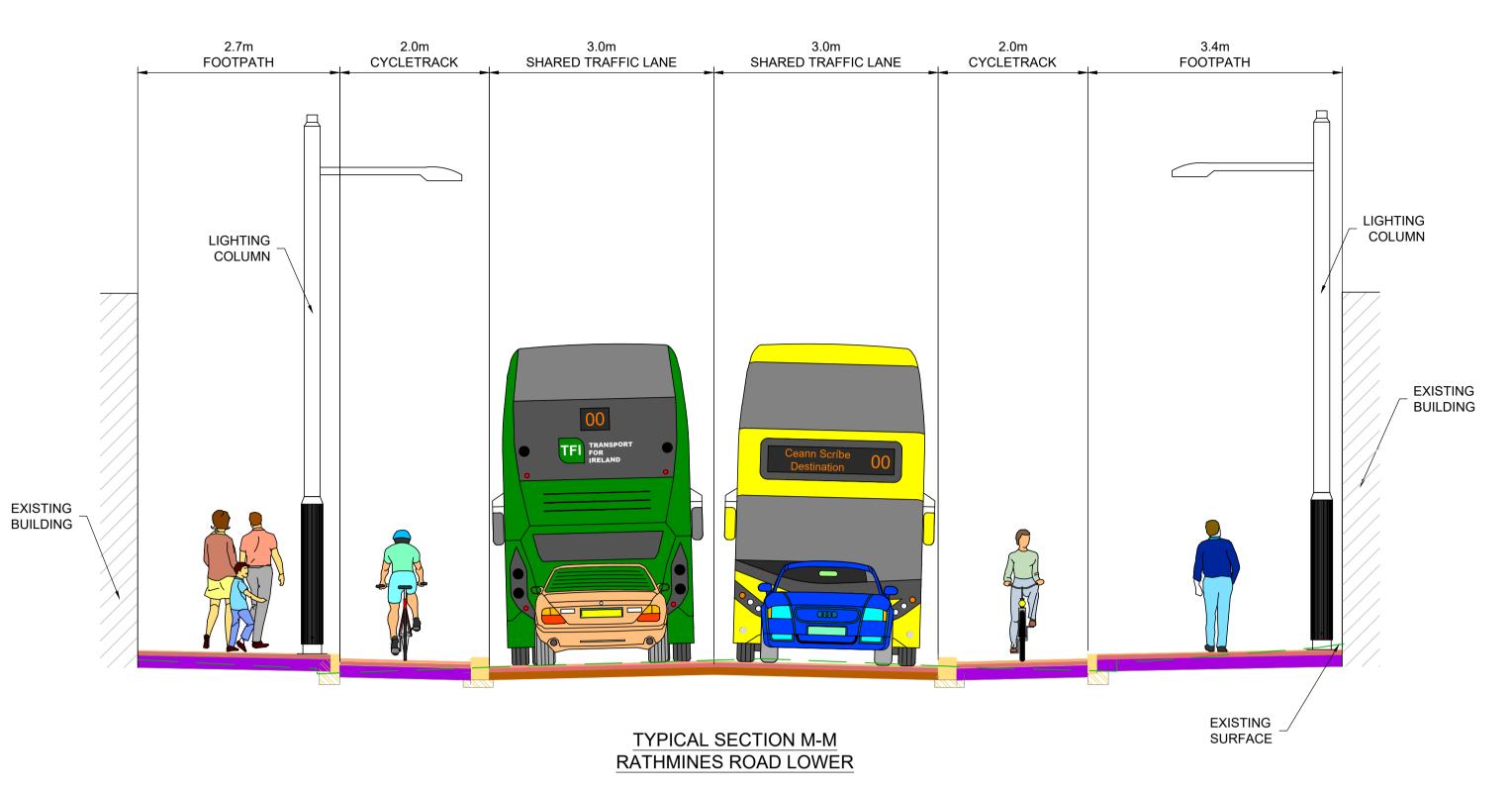
LOCATED ON GA SHEET 11 DRAWING REF: BCIDC-ARP-GEO GA-1012 XX 00-DR-CR-0011

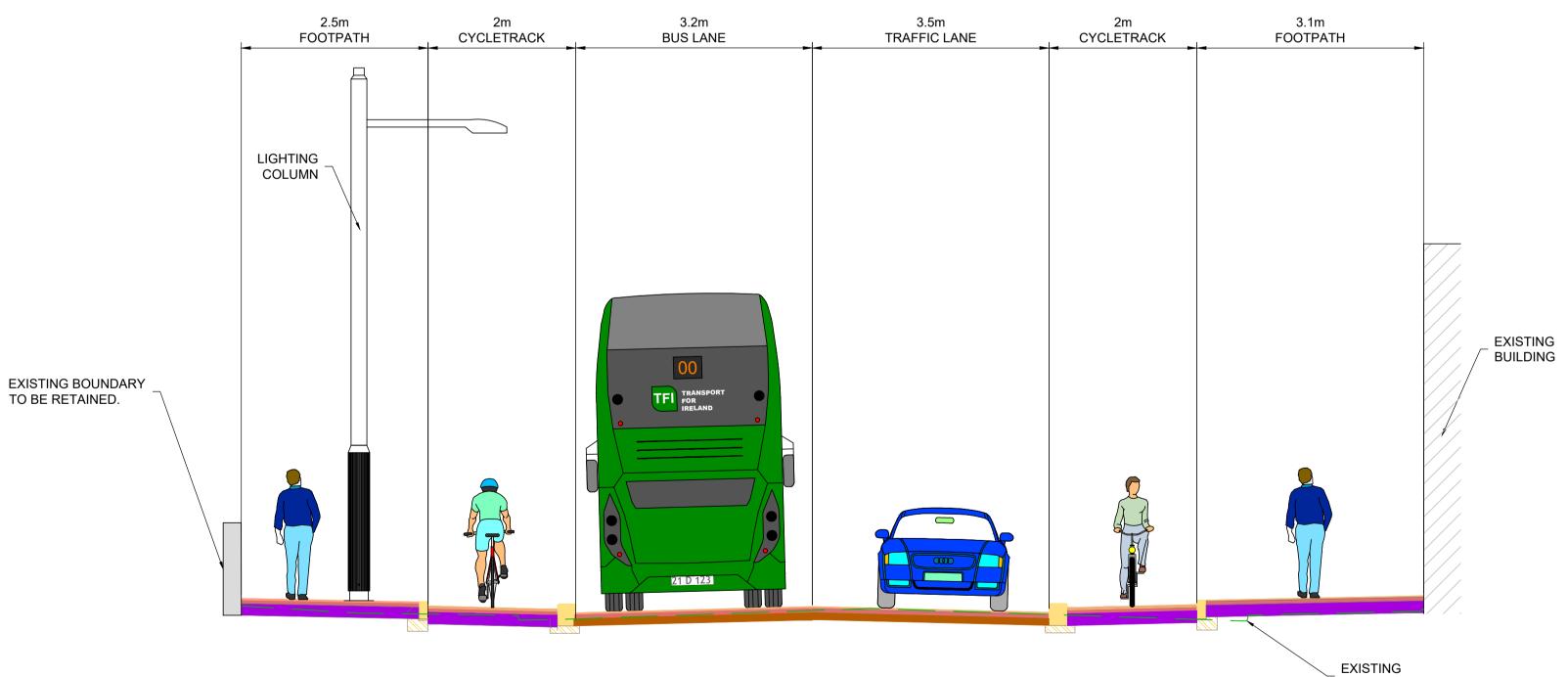


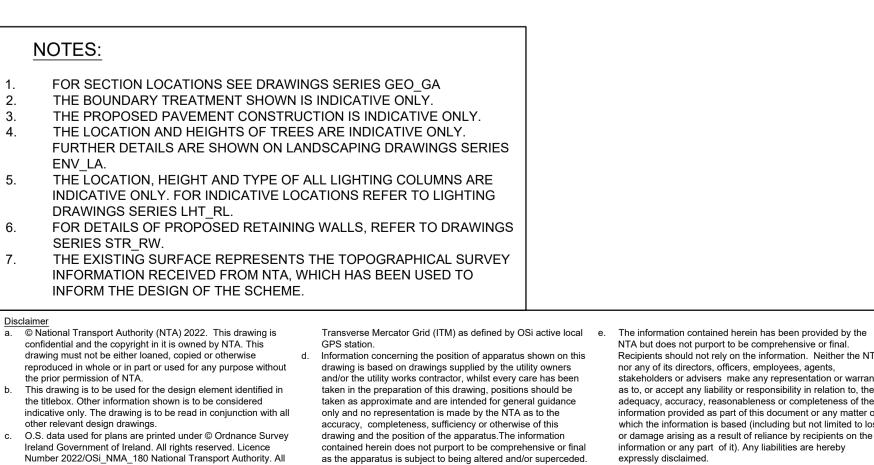
### **TYPICAL SECTION L-L** RATHMINES ROAD LOWER LOCATED ON GA SHEET 12

DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0012

	Rev M0 <sup>2</sup>	 Drn Chk'd App'd SK CMG DC	Description ISSUE FOR PHASE 4: PLANNING	Client		Engineering		תו	Programme Title BUSCONNECTS D CORE BUS CORRIDORS INFRAS	-	WORKS	3
ct 2040				<b>Údarás N</b> a National Tr	<b>áisiúnta Iompair</b> ansport Authority		ARU		Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE TYPICAL CROSS SEC		RRIDOR SCI	HEME
and's				Date 27/01/2023	Scale 1:50 @ A1 1:100 @ A3		Checked CMG	Approved DC				
				Project Code BCIDC	Originator Code ARP	QMS Code	268401-00	•	Drawing File Name BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-0006	Sheet Number 06 of 19	Status A	Rev M01
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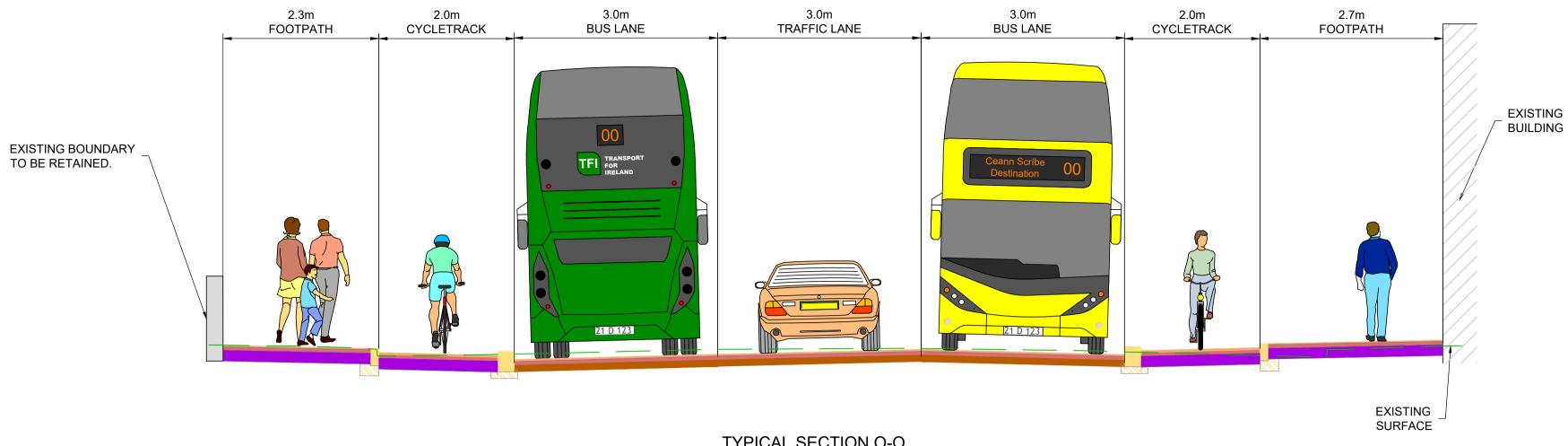
#### LOCATED ON GA SHEET 13 DRAWING REF: BCIDC-ARP-GEO GA-1012 XX 00-DR-CR-0013

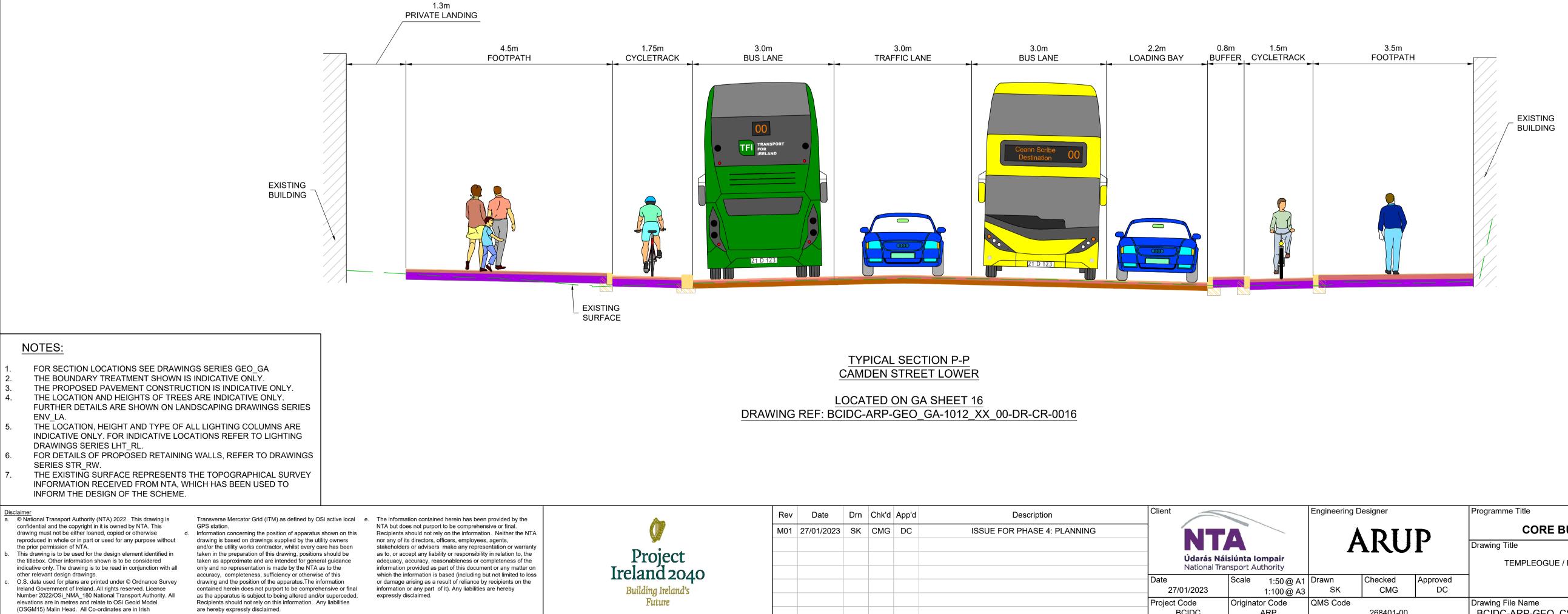
### TYPICAL SECTION N-N RICHMOND STREET SOUTH

LOCATED ON GA SHEET 14 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0014

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ct			Údarás N	Láisiúnta Iompair Transport Authority		ARU	r	Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE TYPICAL CROSS SEC		RIDOR SCI	HEME
and's			Date 27/01/2023	Scale 1:50@A1 1:100@A3		Checked CMG	Approved DC		nono		
			Project Code BCIDC	Originator Code ARP	QMS Code	268401-00		Drawing File Name BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-0007	Sheet Number 07 of 19	Status A	Rev M01

SURFACE

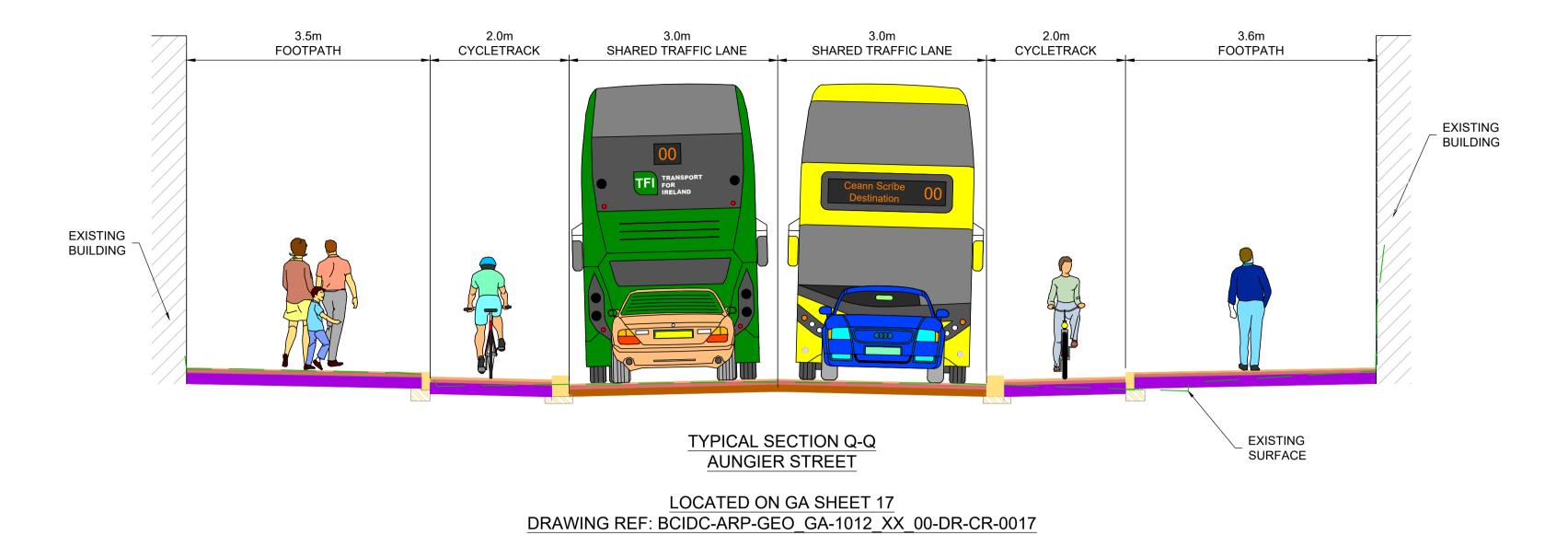


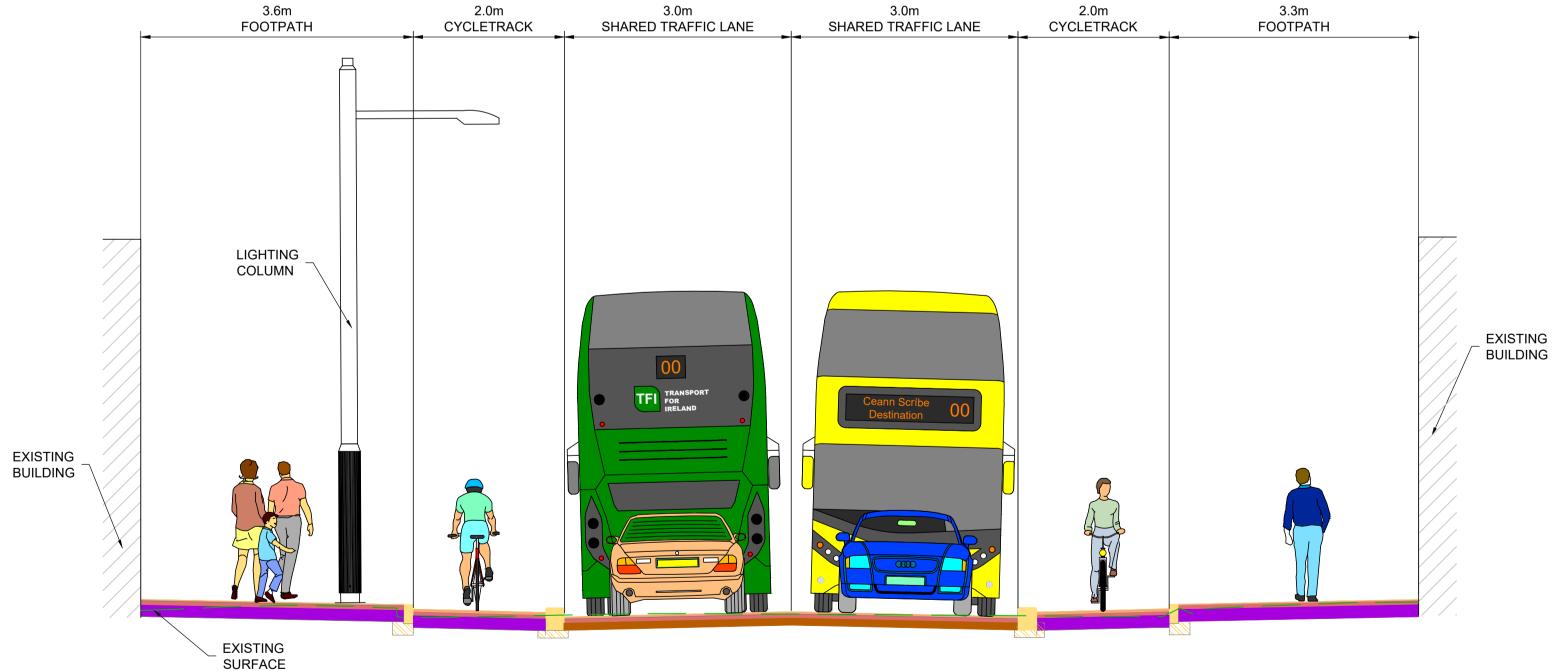


#### **TYPICAL SECTION O-O** CAMDEN STREET UPPER

#### LOCATED ON GA SHEET 15 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0015

	Rev Date	Drn	Chk'd	App'd	Description	Client			Engineering D	esigner		Programme Title BUSCONNECTS DUBLIN
	M01 27/01/2023	3 SK	CMG	DC	ISSUE FOR PHASE 4: PLANNING		NT			RIJ	D	CORE BUS CORRIDORS INFRASTRUCTURE WORKS
							NT		<b>F</b>	<b>IKU</b>	r	Drawing Title
ect		_				_		<b>isiúnta Iompair</b> ansport Authority				TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE CORE BUS CORRIDOR SCHEME
2040						Date		Scale 1:50@A1	Drawn	Checked	Approved	TYPICAL CROSS SECTIONS
land's		_				27/0	01/2023	1:100@A3		CMG	DC	
2						Project C B	Code CIDC	Originator Code ARP	QMS Code	268401-00		Drawing File NameSheet NumberStatusRevBCIDC-ARP-GEOCS-1012XX01-DR-CR-000808 of 19AM01
								T SCALE USE FIGI	JRED DIME	NSIONS ON	LY	





NOTES: FOR SECTION LOCATIONS SEE DRAWINGS SERIES GEO\_GA THE BOUNDARY TREATMENT SHOWN IS INDICATIVE ONLY. THE PROPOSED PAVEMENT CONSTRUCTION IS INDICATIVE ONLY. THE LOCATION AND HEIGHTS OF TREES ARE INDICATIVE ONLY. FURTHER DETAILS ARE SHOWN ON LANDSCAPING DRAWINGS SERIES ENV LA. THE LOCATION, HEIGHT AND TYPE OF ALL LIGHTING COLUMNS ARE INDICATIVE ONLY. FOR INDICATIVE LOCATIONS REFER TO LIGHTING DRAWINGS SERIES LHT\_RL. FOR DETAILS OF PROPOSED RETAINING WALLS, REFER TO DRAWINGS SERIES STR RW. THE EXISTING SURFACE REPRESENTS THE TOPOGRAPHICAL SURVEY INFORMATION RECEIVED FROM NTA, WHICH HAS BEEN USED TO INFORM THE DESIGN OF THE SCHEME. Disclaimer a. © National Transport Authority (NTA) 2022. This drawing is Transverse Mercator Grid (ITM) as defined by OSi active local e. The information contained herein has been provided by the confidential and the copyright in it is owned by NTA. This GPS station. drawing must not be either loaned, copied or otherwise d. Information concerning the position of apparatus shown on this reproduced in whole or in part or used for any purpose without drawing is based on drawings supplied by the utility owners the prior permission of NTA. and/or the utility works contractor, whilst every care has been This drawing is to be used for the design element identified in 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 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.

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elevations are in metres and relate to OSi Geoid Model

(OSGM15) Malin Head. All Co-ordinates are in Irish

accuracy, completeness, sufficiency or otherwise of this

drawing and the position of the apparatus. The information

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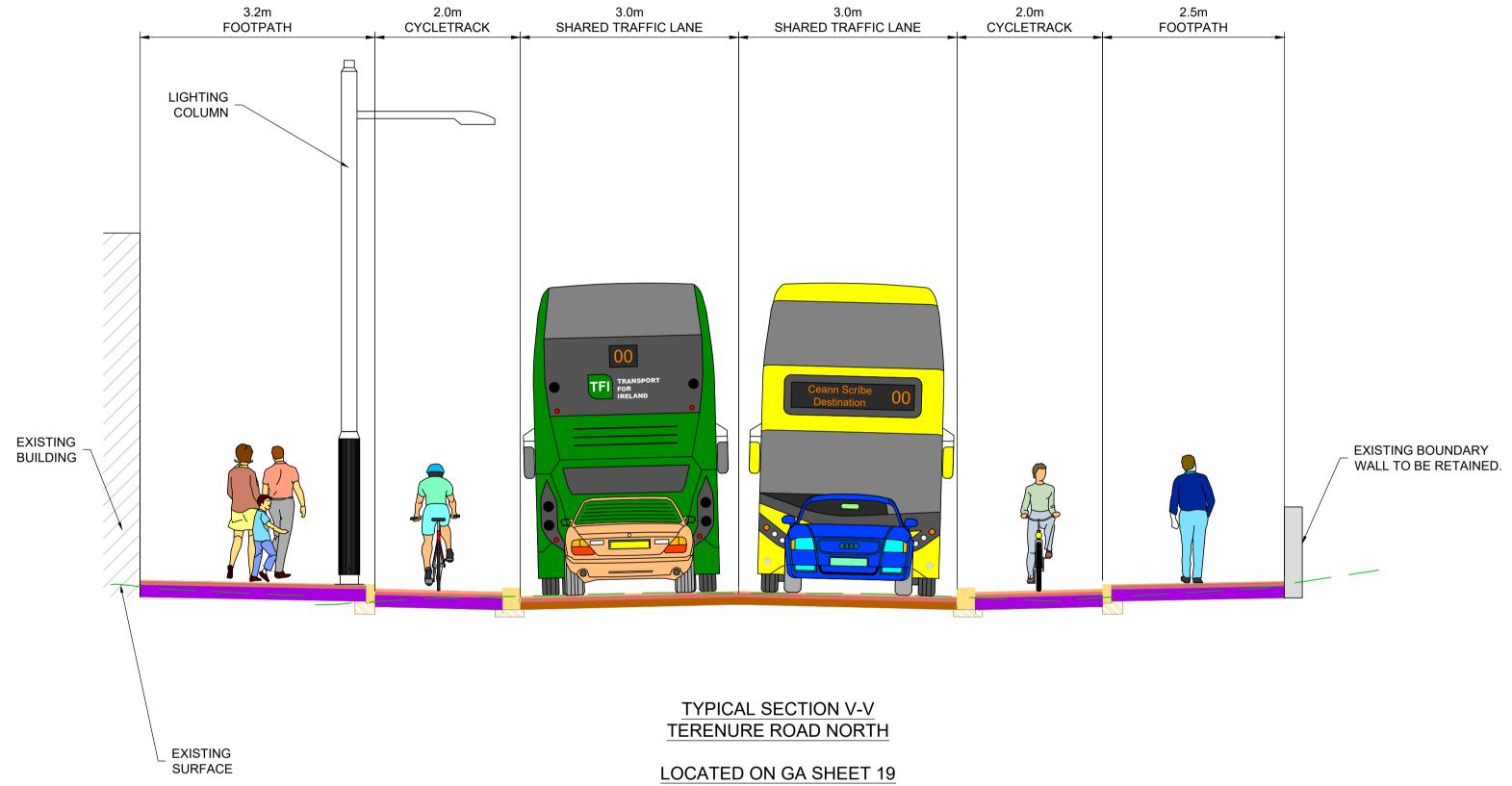


3.0m 3.3m 2.0m 3.0m 2.0m

### TYPICAL SECTION R-R SOUTH GREAT GEORGE'S STREET

LOCATED ON GA SHEET 18 DRAWING REF: BCIDC-ARP-GEO GA-1012 XX 00-DR-CR-0018

	Rev M01	Date 27/01/2023	Chk'd App'd CMG DC	ISS	Description UE FOR PHASE 4: PLANNING	G	Client NT		Engineering [	0	ח		BUSCONNECTS D DRRIDORS INFRAS		WORKS	5
ct 2040							Údarás Nái National Tra	<b>siúnta Iompair</b> nsport Authority				Drawing Title TEMPLEOGUE / RATHFA	RNHAM TO CITY CENTRE TYPICAL CROSS SEC		RRIDOR SCH	IEME
nd's							Date 27/01/2023	Scale 1:50 @ A1 1:100 @ A3		Checked	Approved DC					
							Project Code BCIDC	Originator Code ARP	QMS Code	268401-00		Drawing File Name BCIDC-ARP-GEO_CS-1012	_XX_01-DR-CR-0009	Sheet Number 09 of 19	Status A	Rev M01
								ARP	JRED DIME		LY	BCIDC-ARP-GEO_CS-1012	_XX_01-DR-CR-0009	09 of 19		



	NOTES:		
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2. 3.			
з. 4.			
4.	FURTHER DETAILS ARE SHOWN ON LAI		
5.	. THE LOCATION, HEIGHT AND TYPE OF INDICATIVE ONLY. FOR INDICATIVE LOC		
	DRAWINGS SERIES LHT_RL.		
6.	. FOR DETAILS OF PROPOSED RETAININ SERIES STR RW.	GΝ	ALLS, REFER TO DRAWINGS
7.	. THE EXISTING SURFACE REPRESENTS	ΤН	E TOPOGRAPHICAL SURVEY
	INFORMATION RECEIVED FROM NTA, W	/HIC	CH HAS BEEN USED TO
	INFORM THE DESIGN OF THE SCHEME.		
Disc	sclaimer		
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	reproduced in whole or in part or used for any purpose without the prior permission of NTA.	d a	rawing is based on drawings supplied by the ut nd/or the utility works contractor, whilst every c
D.	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.	ta o	aken in the preparation of this drawing, position aken as approximate and are intended for gene nly and no representation is made by the NTA ccuracy, completeness, sufficiency or otherwis
<b>c</b> .	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 metros and relate to QSi Geoid Medel	d c a	rawing and the position of the apparatus. The in ontained herein does not purport to be compret s the apparatus is subject to being altered and/

elevations are in metres and relate to OSi Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish

erwise of this ne 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.

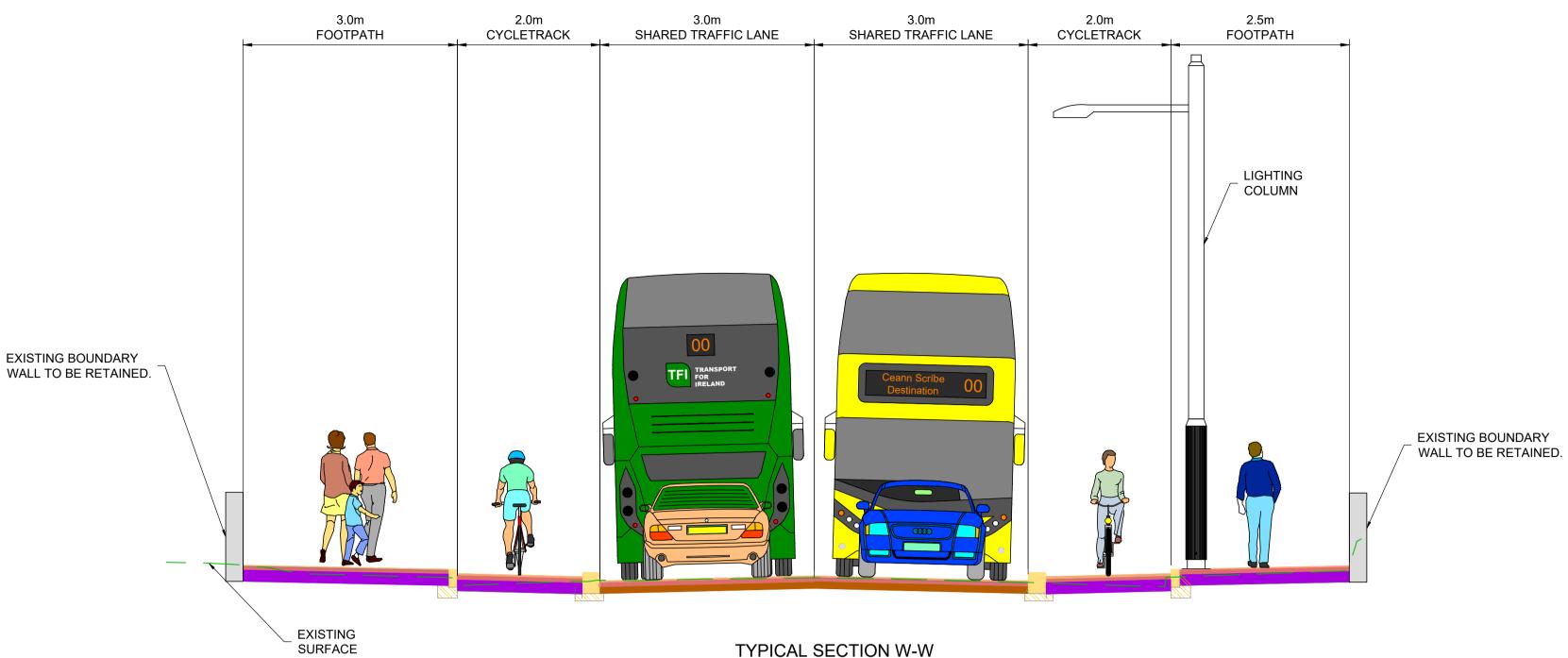
d by OSi active local<br/>aratus shown on this<br/>the utility owners<br/>ositions should be<br/>r general guidance<br/>NTA as to the<br/>herwise of thisThe information contained herein has been provided by the<br/>NTA but does not purport to be comprehensive or final.<br/>Recipients should not rely on the information. Neither the NTA<br/>nor any of its directors, officers, employees, agents,<br/>stakeholders or advisers make any representation or warranty<br/>as to, or accept any liability or responsibility in relation to, the<br/>adequacy, accuracy, reasonableness or completeness of the<br/>information provided as part of this document or any matter on<br/>which the information as a result of reliance by recipients on the or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

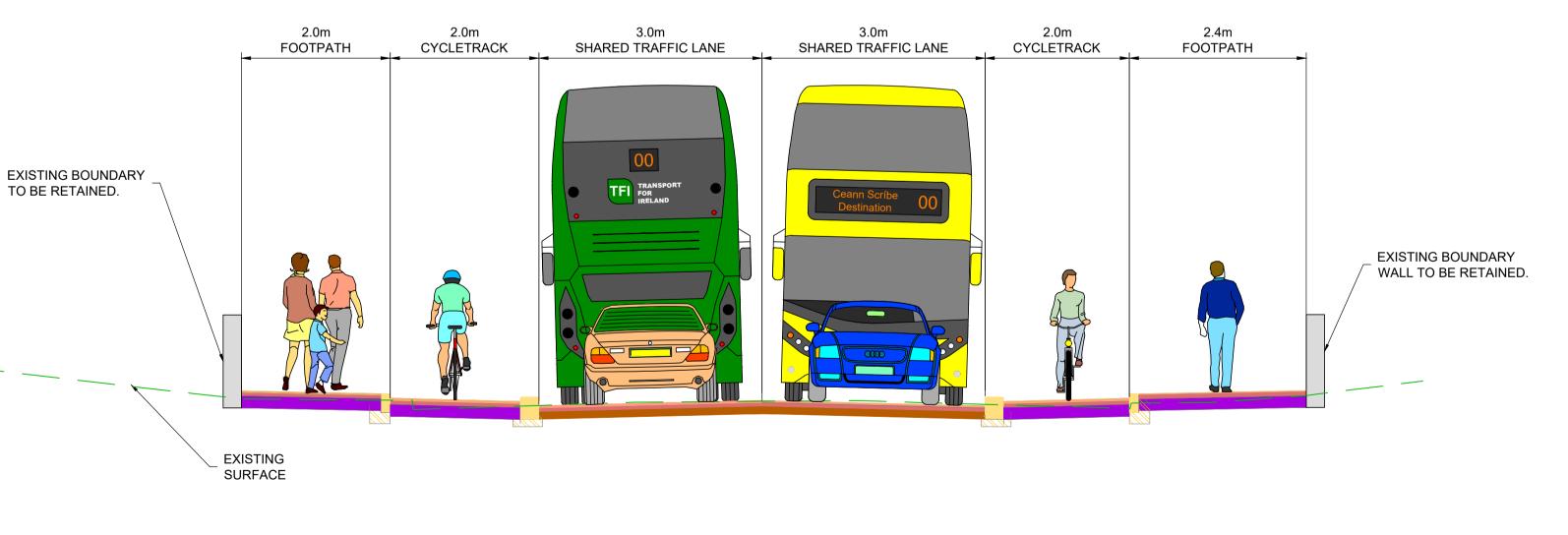


DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0019

	Rev	Date	Drn	Chk'd	App'd	Description	Client				Engineering D	esigner
240	M01	27/01/2023	SK	CMG	DC	ISSUE FOR PHASE 4: PLANNING	-	<b>NT</b> Údarás Náis National Trar	A	RU		
<b>)40</b> I's							Date 27/	01/2023	Scale	1:50 @ A1 1:100 @ A3	Drawn SK	Checked CMG
							Project ( E	Code 3CIDC	Originator A	<sup>-</sup> Code RP	QMS Code	268401-00

T	Π	Programme Title BUSCONNECTS DI CORE BUS CORRIDORS INFRAS	-	WORKS	
J	Γ	RRIDOR SCH	EME		
	Approved DC	TYPICAL CROSS SECT	IONS		
00		Drawing File Name BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-0010	Sheet Number 10 of 19	Status A	Rev M01
	V				





	NOTES:		
1.	FOR SECTION LOCATIONS SEE DRAWINGS SERIES GEO_GA		
2.	THE BOUNDARY TREATMENT SHOWN IS INDICATIVE ONLY.		
3.	THE PROPOSED PAVEMENT CONSTRUCTION IS INDICATIVE ONLY.		
4.	THE LOCATION AND HEIGHTS OF TREES ARE INDICATIVE ONLY.		
	FURTHER DETAILS ARE SHOWN ON LANDSCAPING DRAWINGS SERIES ENV LA.		
5.	THE LOCATION, HEIGHT AND TYPE OF ALL LIGHTING COLUMNS ARE		
0.	INDICATIVE ONLY. FOR INDICATIVE LOCATIONS REFER TO LIGHTING		
	DRAWINGS SERIES LHT_RL.		
6.	FOR DETAILS OF PROPOSED RETAINING WALLS, REFER TO DRAWINGS		
	SERIES STR_RW.		
7.	THE EXISTING SURFACE REPRESENTS THE TOPOGRAPHICAL SURVEY		
	INFORMATION RECEIVED FROM NTA, WHICH HAS BEEN USED TO		
	INFORM THE DESIGN OF THE SCHEME.		
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	drawing must not be either loaned, copied or otherwise d. Information concerning the position of apparatus		
	reproduced in whole or in part or used for any purpose without the prior permission of NTA. drawing is based on drawings supplied by the util and/or the utility works contractor, whilst every ca		
<b>D</b> .	This drawing is to be used for the design element identified in taken in the preparation of this drawing, positions	should be	
	the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all only and no representation is made by the NTA a		
	other relevant design drawings. accuracy, completeness, sufficiency or otherwise		
<b>C</b> .	O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence drawing and the position of the apparatus. The inf		
	Number 2022/OSi_NMA_180 National Transport Authority. All as the apparatus is subject to being altered and/o		

elevations are in metres and relate to OSi Geoid Model (OSGM15) Malin Head. All Co-ordinates are in Irish

ns should be eral guidance as to the rise of this 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.

Si active local 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.



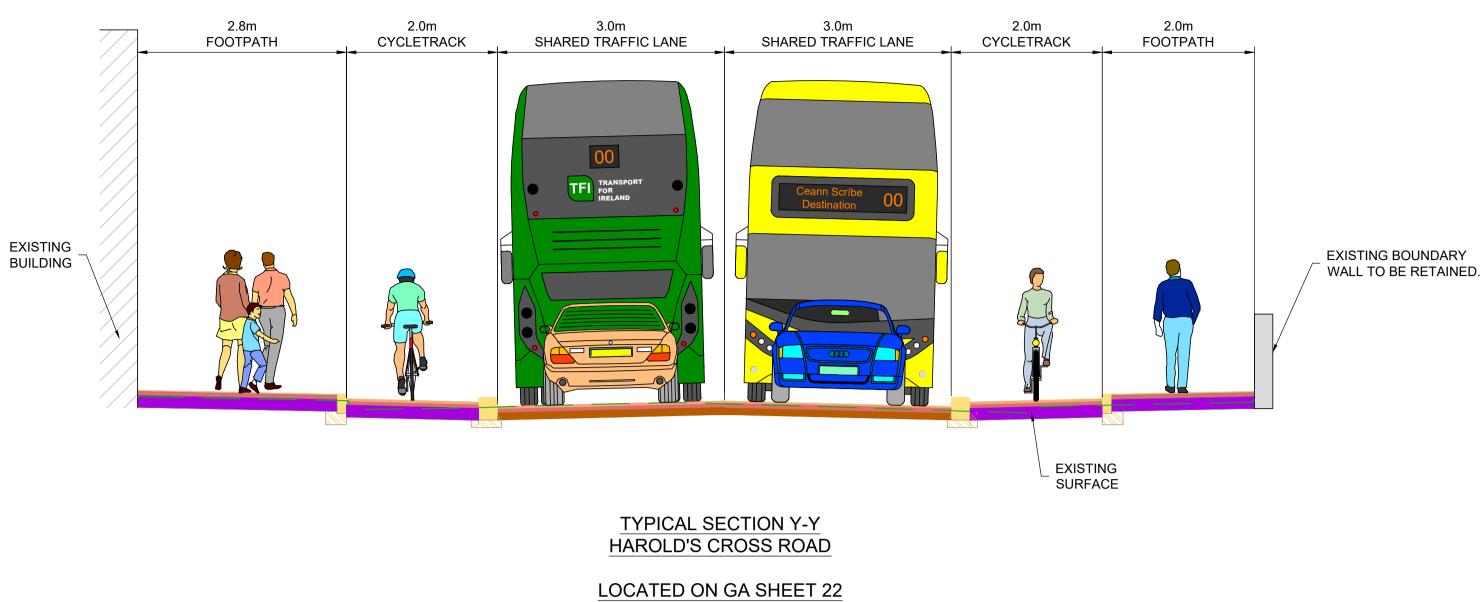
TYPICAL SECTION W-W HAROLD'S CROSS ROAD

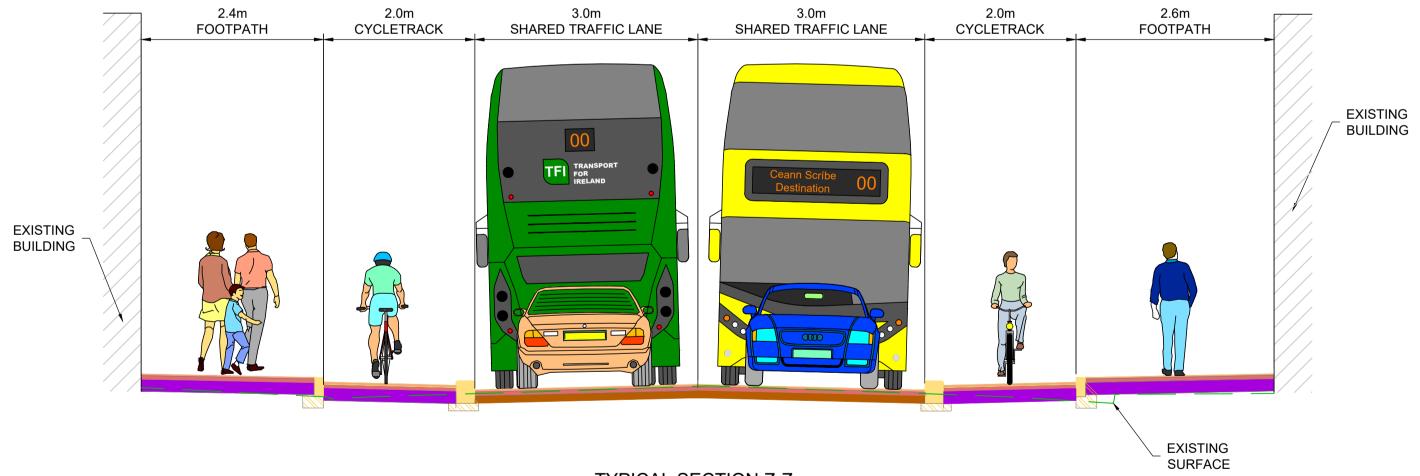
LOCATED ON GA SHEET 20 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0020

> TYPICAL SECTION X-X HAROLD'S CROSS ROAD

LOCATED ON GA SHEET 21 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0021

	Rev M01		 App'd DC	Description ISSUE FOR PHASE 4: PLANNING	Client Engineering Designer						Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
ect 2040					Údarás Náisiúnta Iompair National Transport Authority			F	AKU	ľ	Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE CORE BUS CORRIDO			HEME	
2040 land's					Date 27/	01/2023	Scale 1:50@A1 1:100@A3		Checked CMG	Approved DC		IONS			
{					Project ( E	Code 3CIDC	Originator Code ARP	QMS Code	268401-00		Drawing File Name BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-0011	Sheet Number 11 of 19	Status A	Rev M01	
					E		T SCALE USE FIGU	JRED DIME		LY	BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-0011	11 of 19	A	_	





	NOTES:									
1. 2. 3. 4.	THE PROPOSED PAVEMENT CONSTRUCTION IS INDICATIVE ONLY. THE LOCATION AND HEIGHTS OF TREES ARE INDICATIVE ONLY. FURTHER DETAILS ARE SHOWN ON LANDSCAPING DRAWINGS SERIE ENV_LA.									
5.	THE LOCATION, HEIGHT AND TYPE OF INDICATIVE ONLY. FOR INDICATIVE LO DRAWINGS SERIES LHT_RL.									
6.	· · · · · · · · · · · · · · · · · · ·									
7.	SERIES STR_RW. THE EXISTING SURFACE REPRESENTS THE TOPOGRAPHICAL SURVE INFORMATION RECEIVED FROM NTA, WHICH HAS BEEN USED TO INFORM THE DESIGN OF THE SCHEME.									
<u>Diso</u> a.	Claimer © 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.	d.	Transverse Mercator Grid (ITM) as defined by C GPS station. Information concerning the position of apparatus drawing is based on drawings supplied by the ut and/or the utility works contractor, whilst every c							
b. c.	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. 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		taken in the preparation of this drawing, position taken as approximate and are intended for gene only and no representation is made by the NTA accuracy, completeness, sufficiency or otherwis drawing and the position of the apparatus. The ir contained herein does not purport to be comprei as the apparatus is subject to being altered and, Recipients should not rely on this information.							
	(OSGM15) Malin Head. All Co-ordinates are in Irish		are hereby expressly disclaimed.							

erse Mercator Grid (ITM) as defined by OSi active local e. The information contained herein has been provided by the tation. ation concerning the position of apparatus shown on this is based on drawings supplied by the utility owners the utility works contractor, whilst every care has been n the preparation of this drawing, positions should be as approximate and are intended for general guidance and no representation is made by the NTA as to the acy, completeness, sufficiency or otherwise of this g and the position of the apparatus. The information hed 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.

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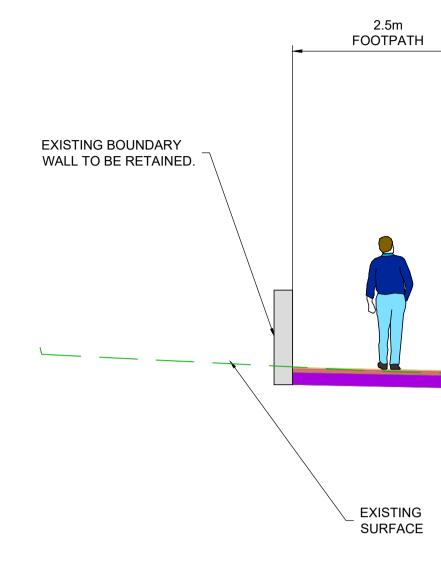


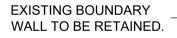
DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0022

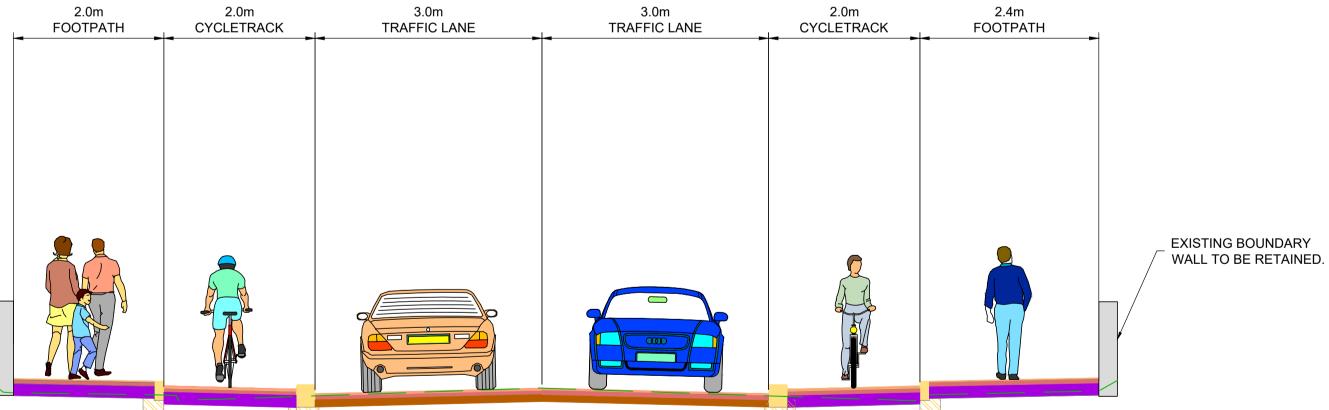
### TYPICAL SECTION Z-Z HAROLD'S CROSS ROAD

LOCATED ON GA SHEET 23 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0023

National Transport Authority	CORRIDORS INFRASTRUCTURE WORKS	Programme Title BUSCONNECTS CORE BUS CORRIDORS INFR			Engineering		Client	Description ISSUE FOR PHASE 4: PLANNING							
Date Scale 1:50 @ A1 Drawn Checked Approved	HFARNHAM TO CITY CENTRE CORE BUS CORRIDOR SCHEME	Údarás Náisiúnta Iompair													
27/01/2023 1:100 @ A3 SK CMG DC	TYPICAL CROSS SECTIONS	TYPICAL CROSS 5	Approved DC	Checked CMG		_	Date 27/01/2023								
Project Code     Originator Code     QMS Code     Drawing File Name       Mathematical Control     BCIDC     ARP     268401-00     BCIDC-ARP-GEO_CS-1012_	012_XX_01-DR-CR-0012 Sheet Number Status Rev 12 of 19 A MO	Drawing File Name BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-00 <sup>2</sup>		268401-00	QMS Code	, e									







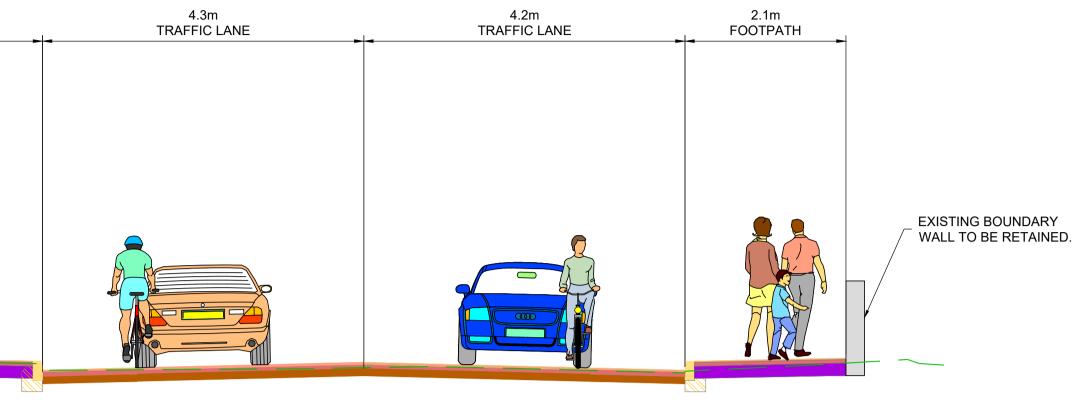
NOTES:									
THE BOUNDARY TREATMENT SHOWN IS INDICATIVE ONLY. THE PROPOSED PAVEMENT CONSTRUCTION IS INDICATIVE ONLY. THE LOCATION AND HEIGHTS OF TREES ARE INDICATIVE ONLY. FURTHER DETAILS ARE SHOWN ON LANDSCAPING DRAWINGS SERIES ENV_LA. THE LOCATION, HEIGHT AND TYPE OF ALL LIGHTING COLUMNS ARE INDICATIVE ONLY. FOR INDICATIVE LOCATIONS REFER TO LIGHTING DRAWINGS SERIES LHT_RL. FOR DETAILS OF PROPOSED RETAINING WALLS, REFER TO DRAWINGS SERIES STR_RW. THE EXISTING SURFACE REPRESENTS THE TOPOGRAPHICAL SURVEY INFORMATION RECEIVED FROM NTA, WHICH HAS BEEN USED TO INFORM THE DESIGN OF THE SCHEME.									
National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This	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								

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TYPICAL SECTION AA-AA WASDALE PARK

LOCATED ON GA SHEET 24 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0024

TYPICAL SECTION AB-AB ORWELL ROAD

LOCATED ON GA SHEET 25 DRAWING REF: BCIDC-ARP-GEO\_GA-1012\_XX\_00-DR-CR-0025

	Rev         Date         Drn         Chk'd         App'd         Description           M01         27/01/2023         SK         CMG         DC         ISSUE FOR PHASE 4: PLANNING	Client Client Client Core BUSCONNECTS DUBLIN CORE BUSCORRIDORS INFRASTRUCTURE WORKS Drawing Title	
ct		NTA       ARUP         Údarás Náisiúnta Iompair       National Transport Authority         Drawing Title       TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE CORE BUS CORRIDOR SCHEME         TYPICAL CROSS SECTIONS	
2040 and's		Date     Scale     1:50@A1     Drawn     Checked     Approved       27/01/2023     1:100@A3     SK     CMG     DC	
		Project Code     Originator Code     QMS Code     Drawing File Name     Sheet Number     Status     Rev       BCIDC     ARP     268401-00     Drawing File Name     BCIDC-ARP-GEO_CS-1012_XX_01-DR-CR-0013     13 of 19     A     MC	101
		DO NOT SCALE USE FIGURED DIMENSIONS ONLY	

### NOTES:

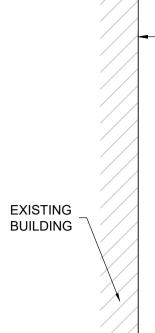
- FOR SECTION LOCATIONS SEE DRAWINGS SERIES GEO\_GA THE BOUNDARY TREATMENT SHOWN IS INDICATIVE ONLY.
- THE PROPOSED PAVEMENT CONSTRUCTION IS INDICATIVE ONLY.
- THE LOCATION AND HEIGHTS OF TREES ARE INDICATIVE ONLY. FURTHER DETAILS ARE SHOWN ON LANDSCAPING DRAWINGS SERIES ENV\_LA.
- THE LOCATION, HEIGHT AND TYPE OF ALL LIGHTING COLUMNS ARE INDICATIVE ONLY. FOR INDICATIVE LOCATIONS REFER TO LIGHTING
- DRAWINGS SERIES LHT\_RL. FOR DETAILS OF PROPOSED RETAINING WALLS, REFER TO DRAWINGS
- SERIES STR\_RW. THE EXISTING SURFACE REPRESENTS THE TOPOGRAPHICAL SURVEY INFORMATION RECEIVED FROM NTA, WHICH HAS BEEN USED TO INFORM THE DESIGN OF THE SCHEME.

3.0m

FOOTPATH

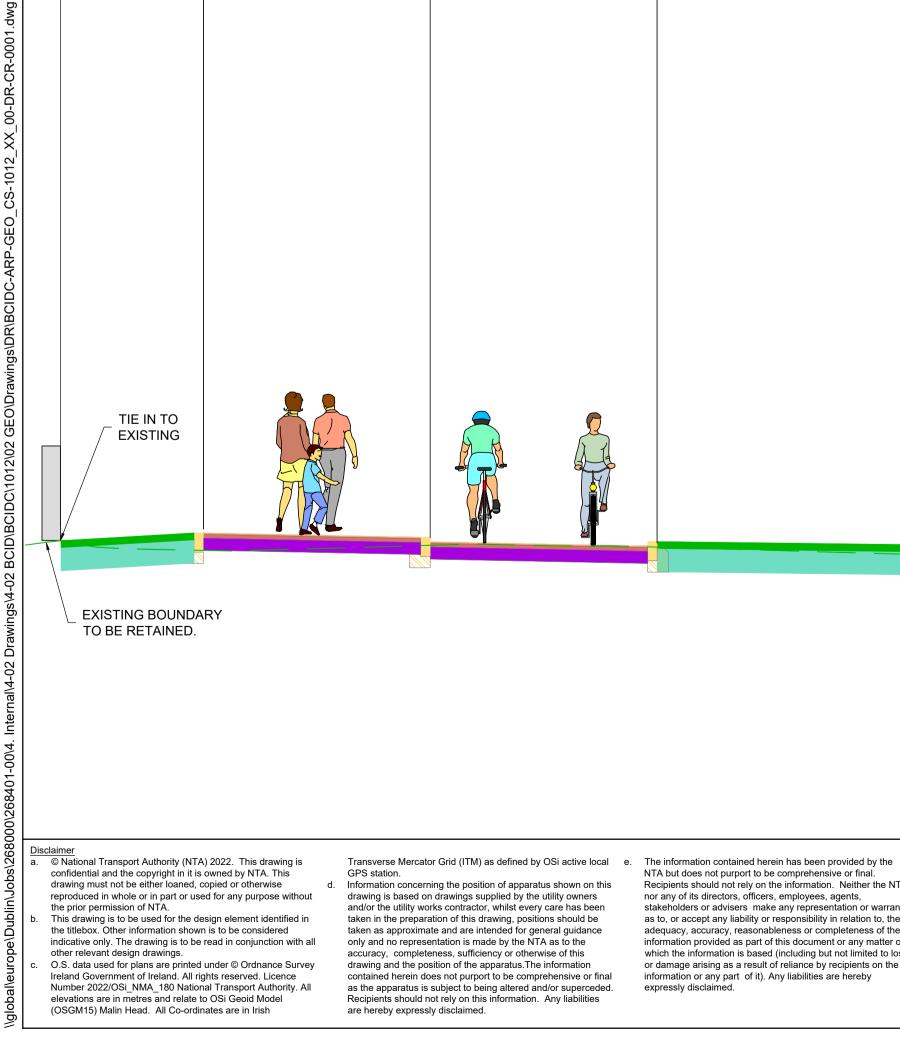
1.9m

VERGE



3.4m

TRAFFIC LANE



- 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
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3.0m

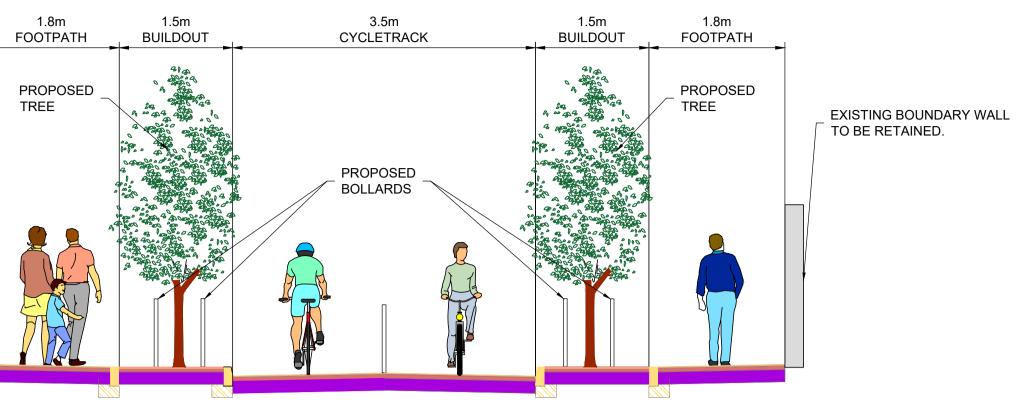
CYCLETRACK

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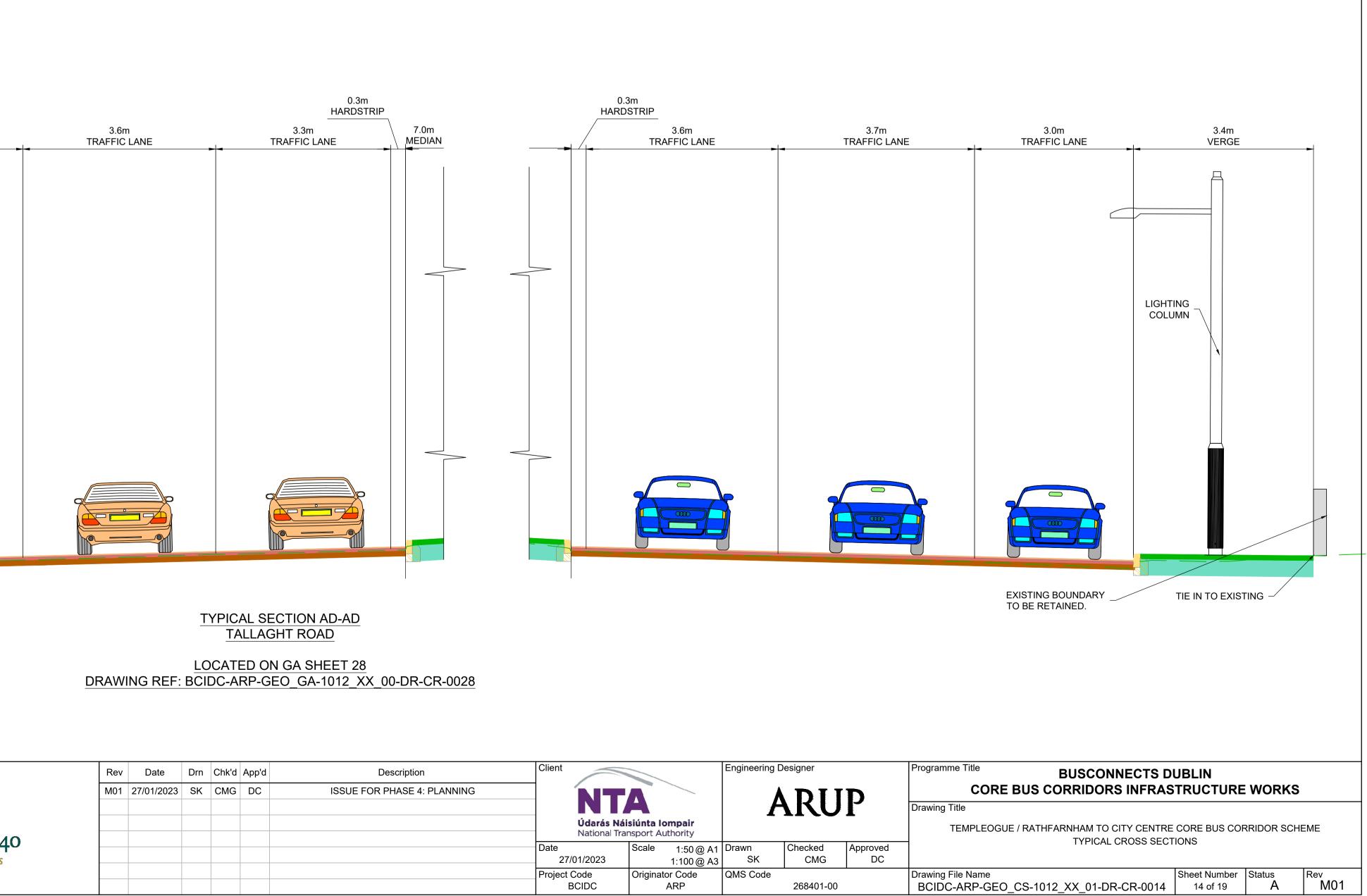
3.7m

VERGE

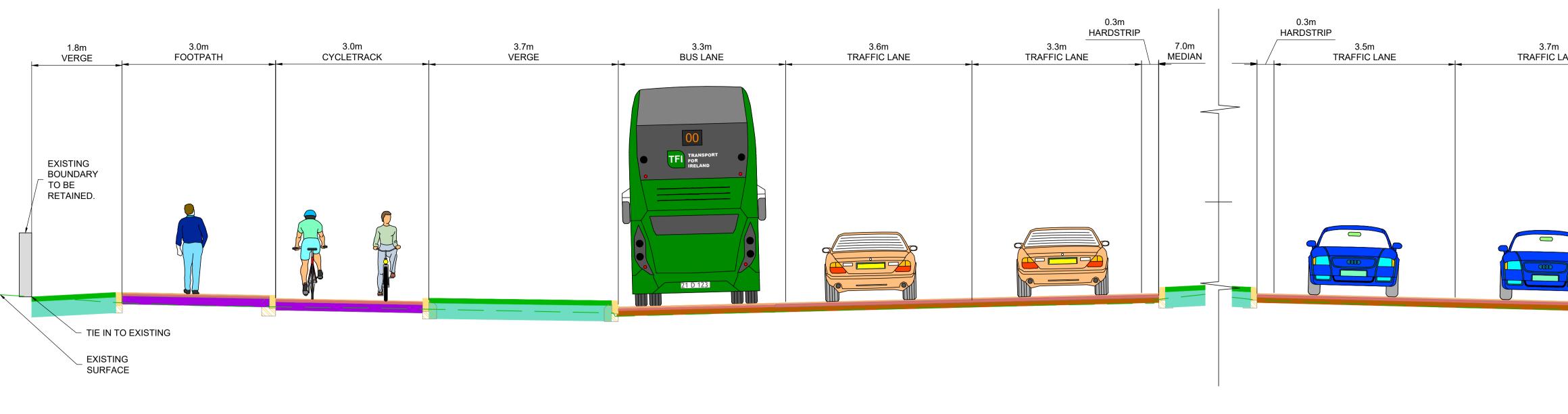


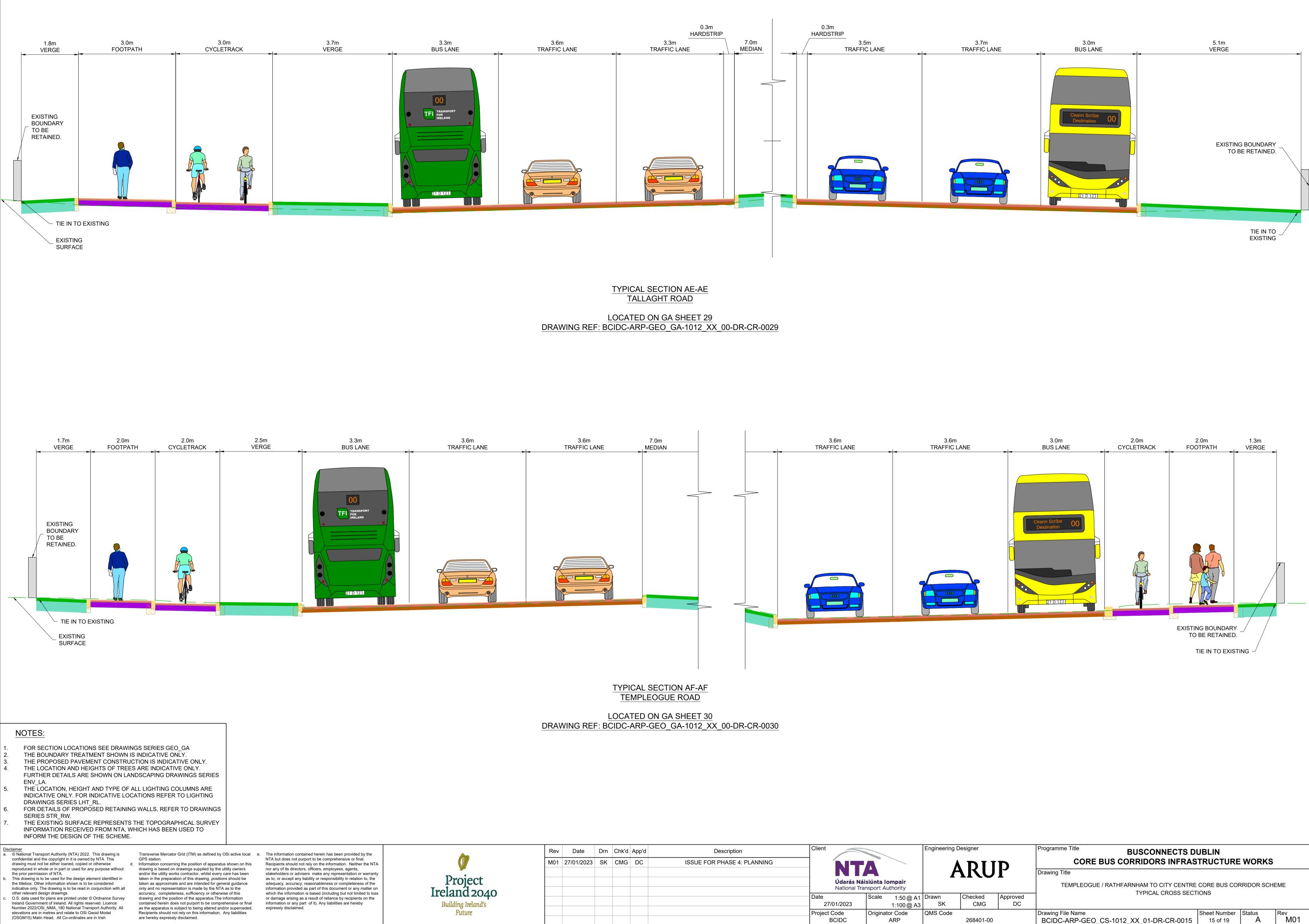


### TYPICAL SECTION AC-AC MOUNT PLEASANT LOWER LOCATED ON GA SHEET 27 DRAWING REF: BCIDC-ARP-GEO GA-1012 XX 00-DR-CR-0027

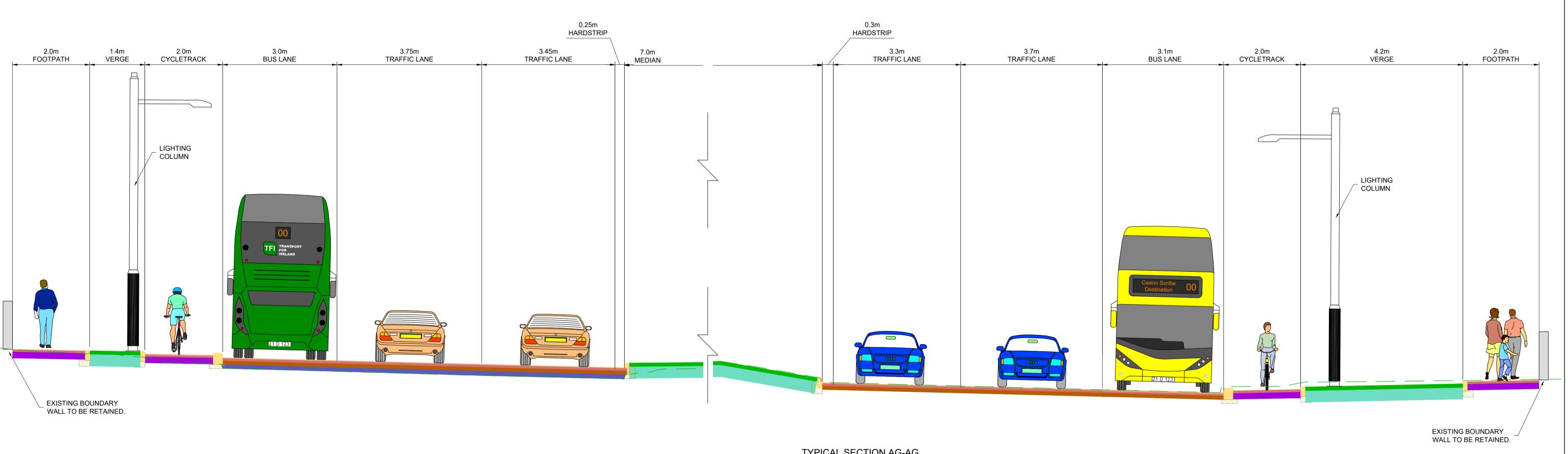


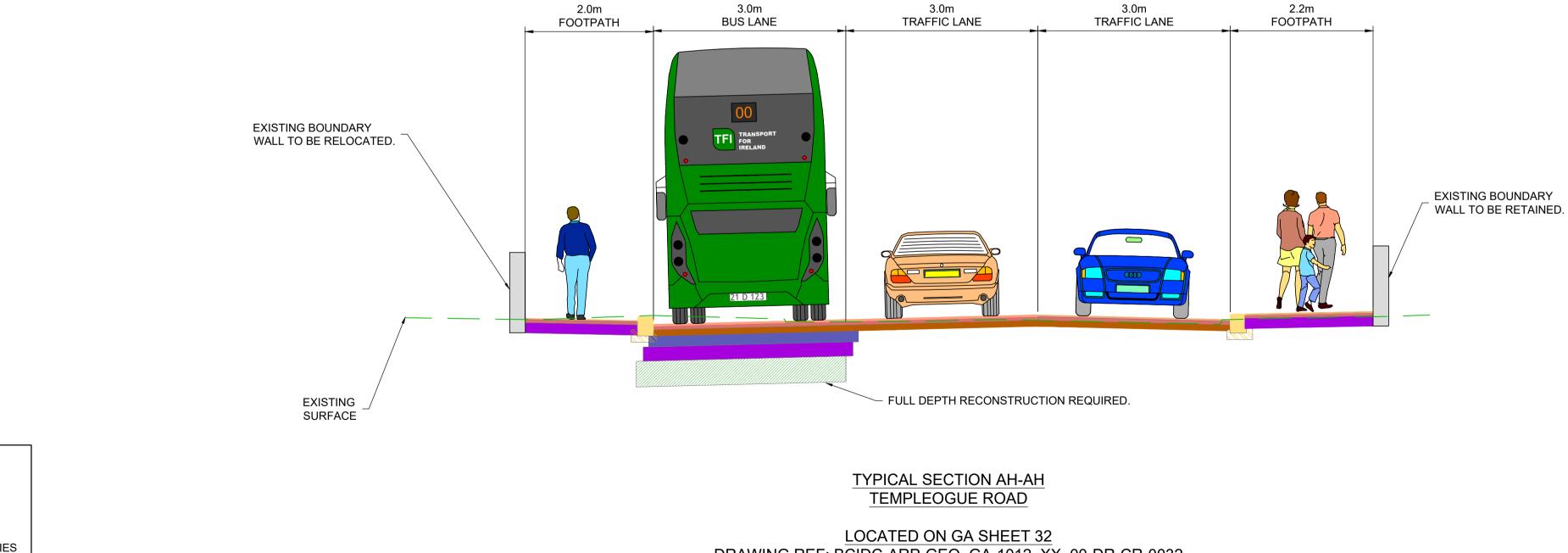
	Rev	Date	Drn	Chk'd	App'd	Description	Client				Engineering D	esigner	
ct 2040 and's	M01	M01         27/01/2023         SK         CMG         DC         ISSUE FOR PHASE 4: P           Image: State of the sta		ISSUE FOR PHASE 4: PLANNING	- ·	<b>Údarás Náis</b> National Tran	A	ARUP					
							Date 27/0	01/2023	Scale	1:50 @ A1 1:100 @ A3	Drawn SK	Checked CMG	Appro
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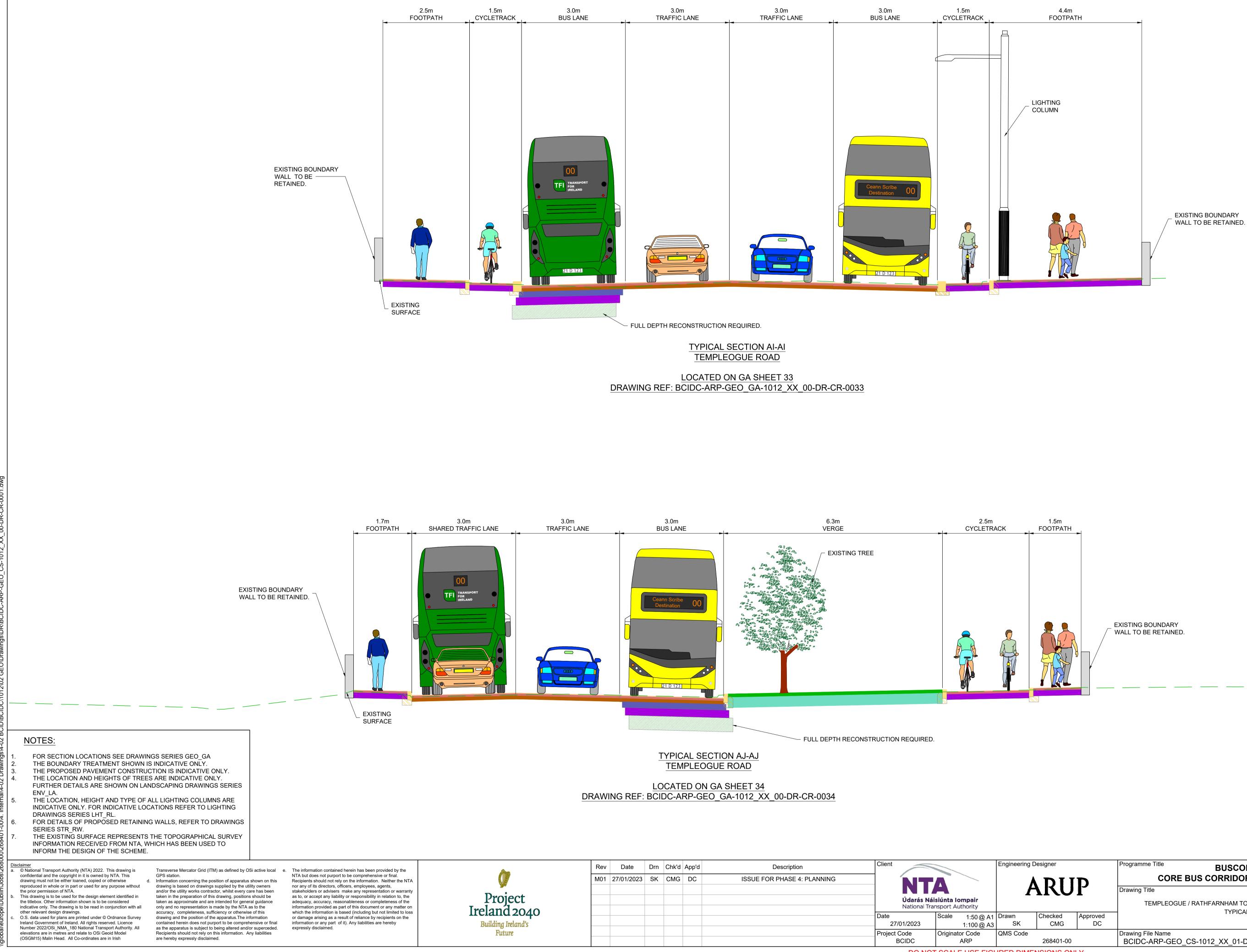


### TYPICAL SECTION AG-AG TEMPLEOGUE ROAD LOCATED ON GA SHEET 31

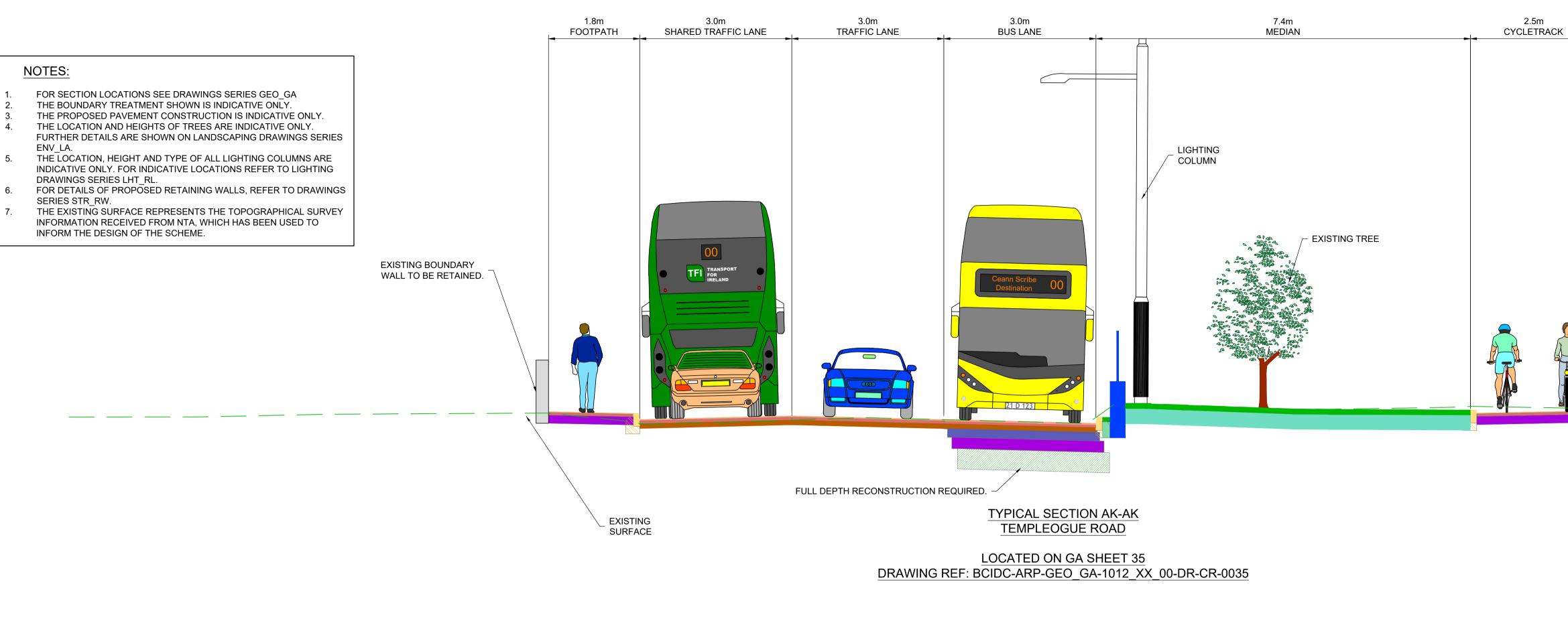
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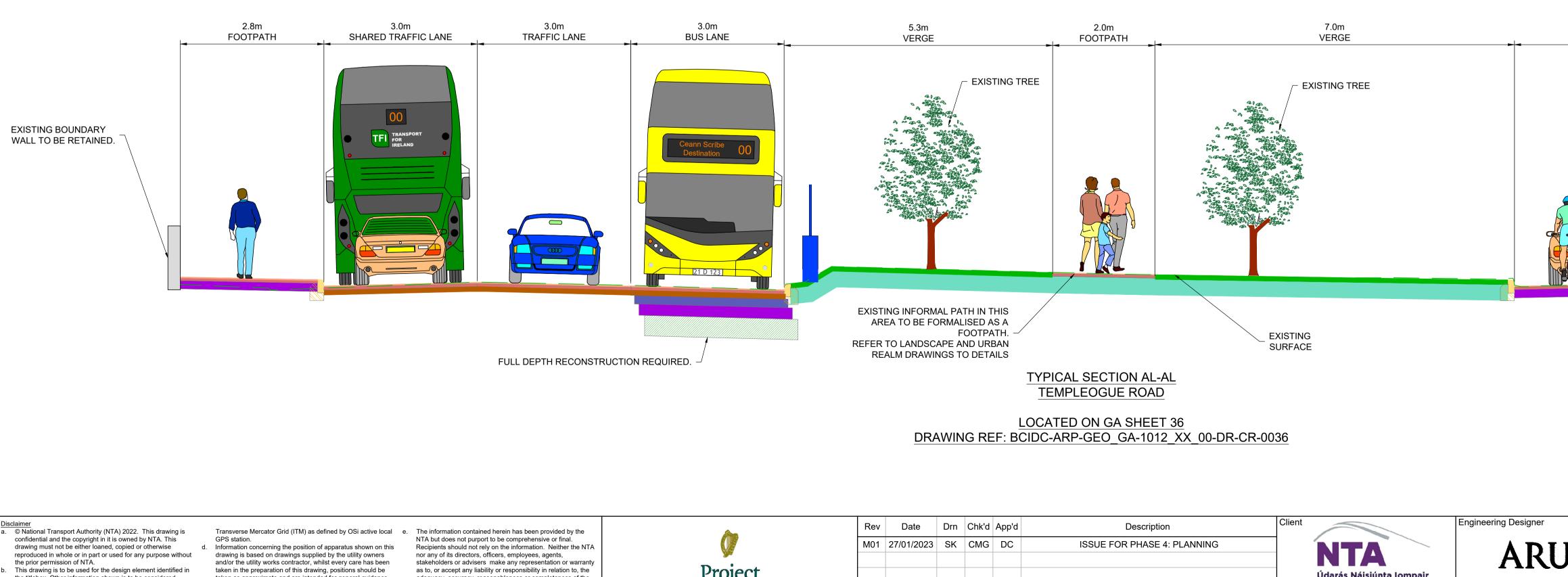
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the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

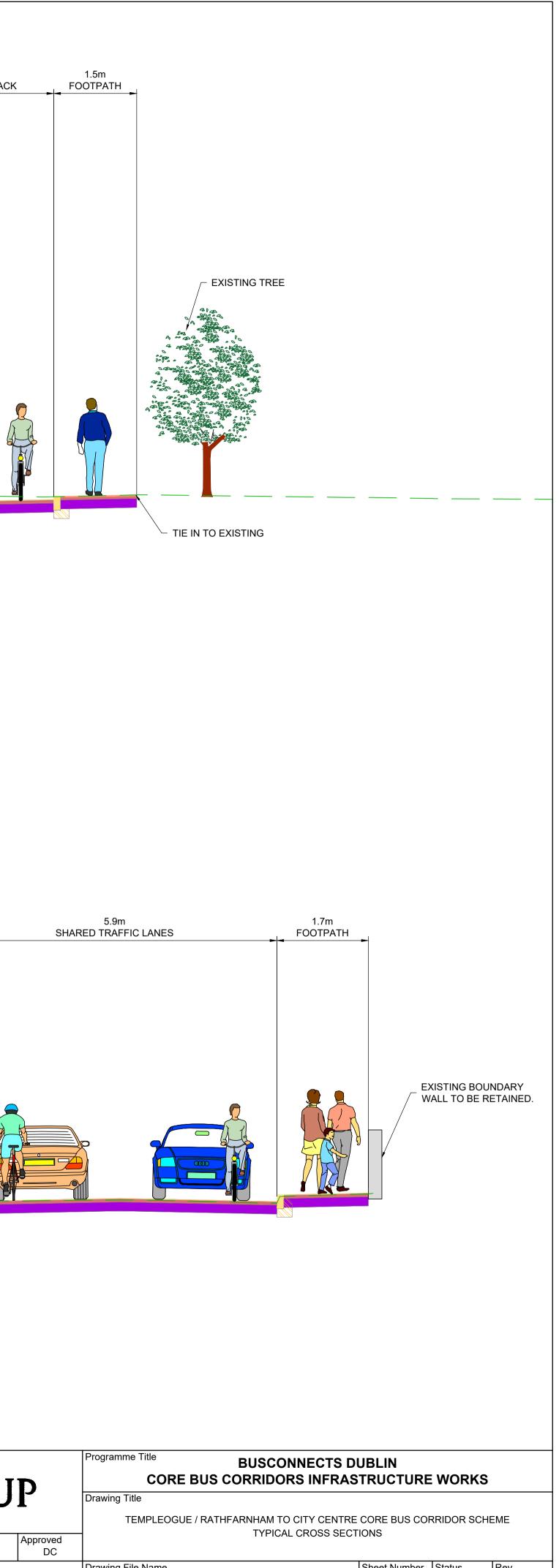
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	NOTES:	
1. 2.	FOR SECTION LOCATIONS SEE DRAWINGS SERIES GEO_GA THE BOUNDARY TREATMENT SHOWN IS INDICATIVE ONLY.	
3.	THE PROPOSED PAVEMENT CONSTRUCTION IS INDICATIVE ONLY.	
4.	THE LOCATION AND HEIGHTS OF TREES ARE INDICATIVE ONLY.	
	FURTHER DETAILS ARE SHOWN ON LANDSCAPING DRAWINGS SERIES	
	ENV LA.	
5.	THE LOCATION, HEIGHT AND TYPE OF ALL LIGHTING COLUMNS ARE	
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6.	FOR DETAILS OF PROPOSED RETAINING WALLS, REFER TO DRAWINGS	
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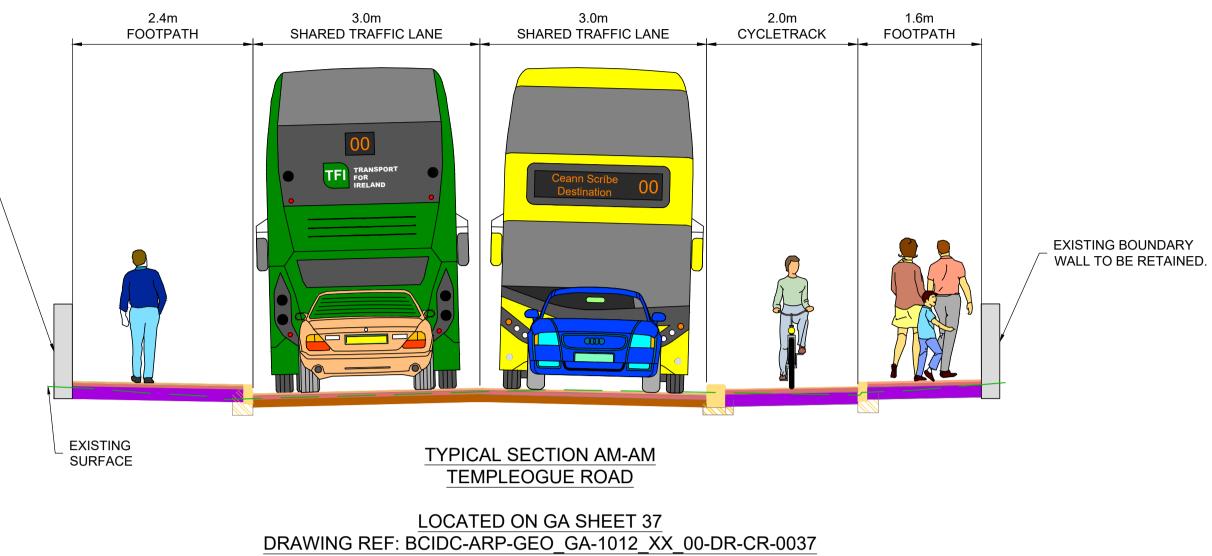
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EXISTING BOUNDARY WALL TO BE RETAINED.



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