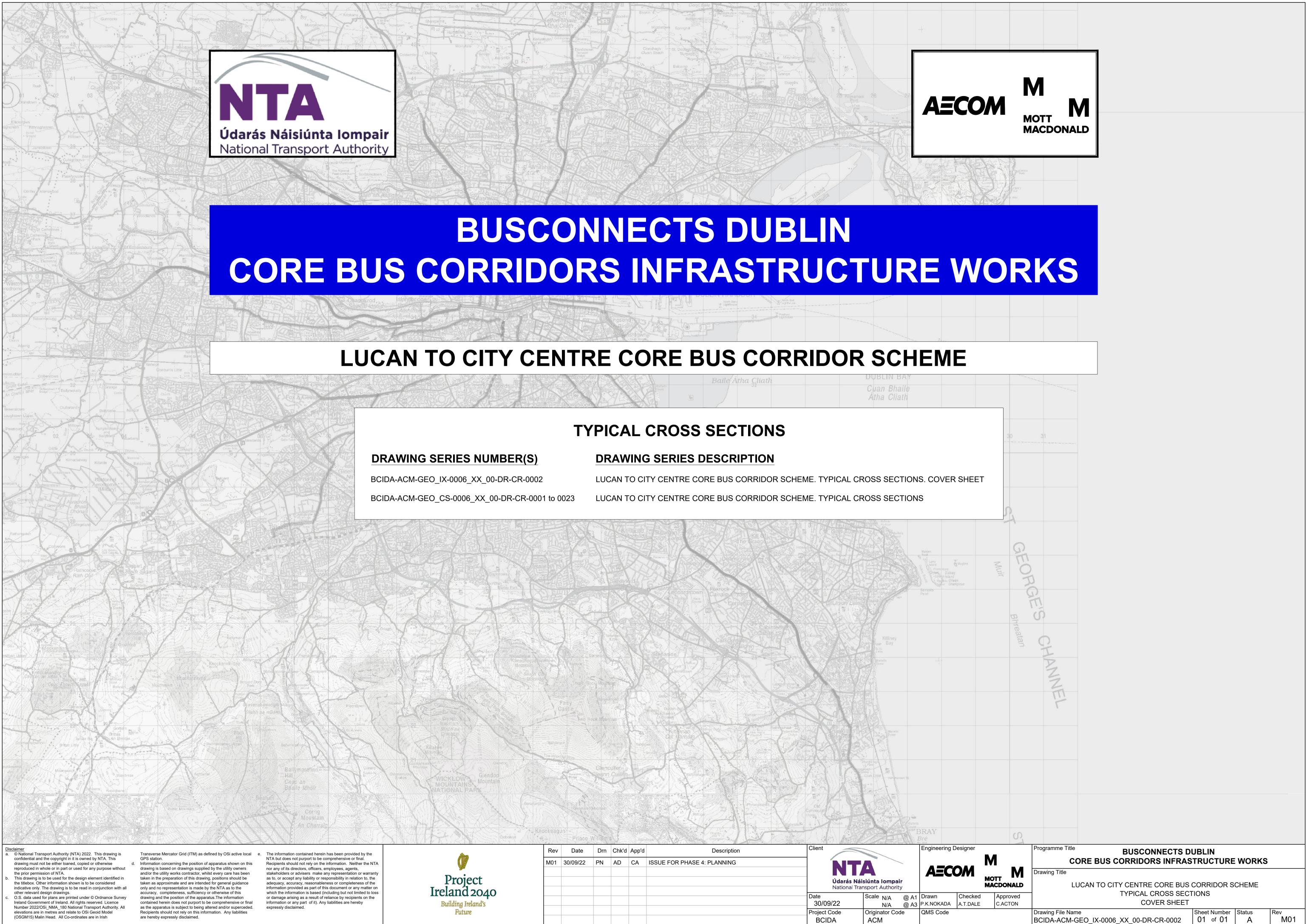
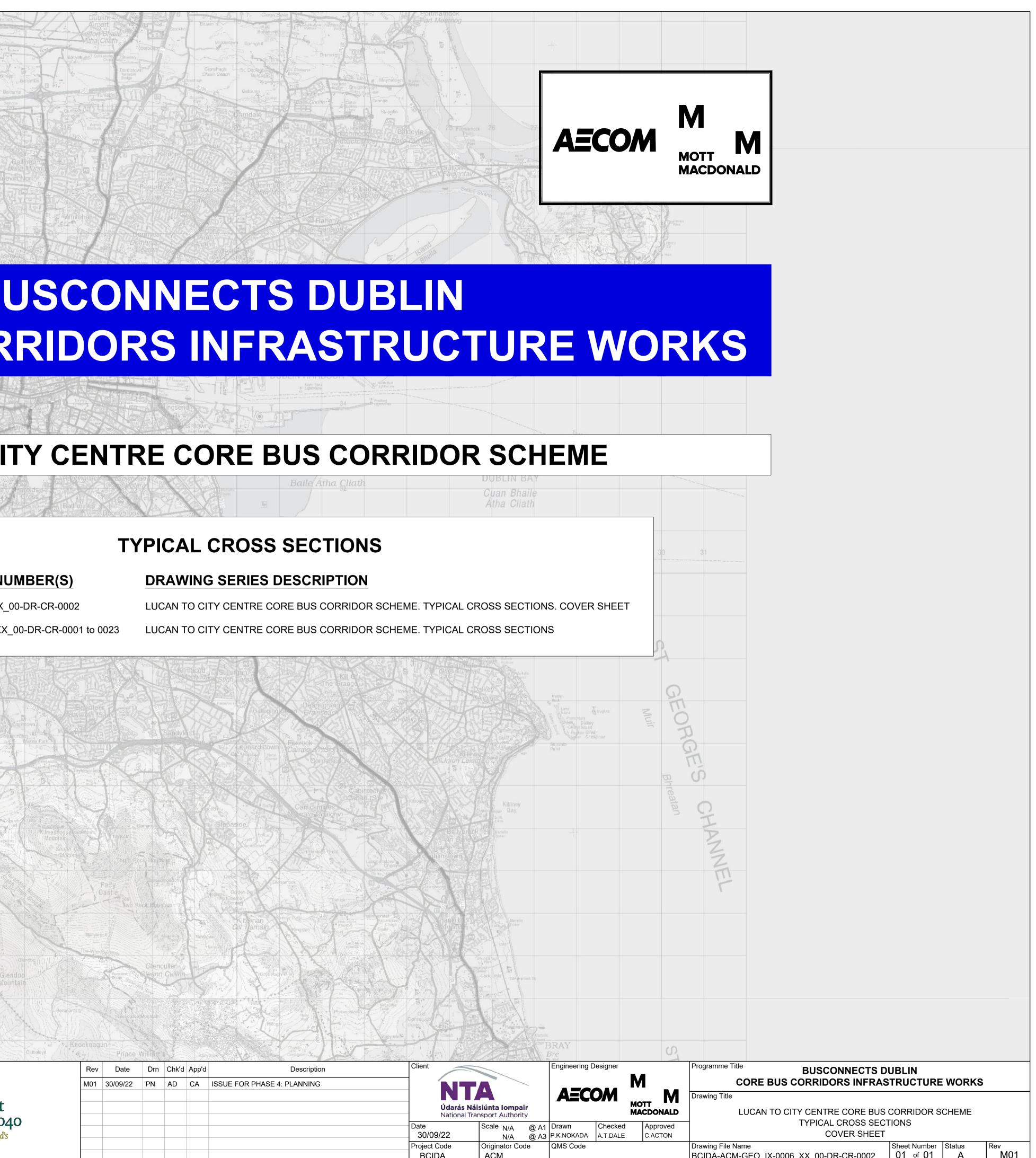
Appendix B4 Typical Cross Sections



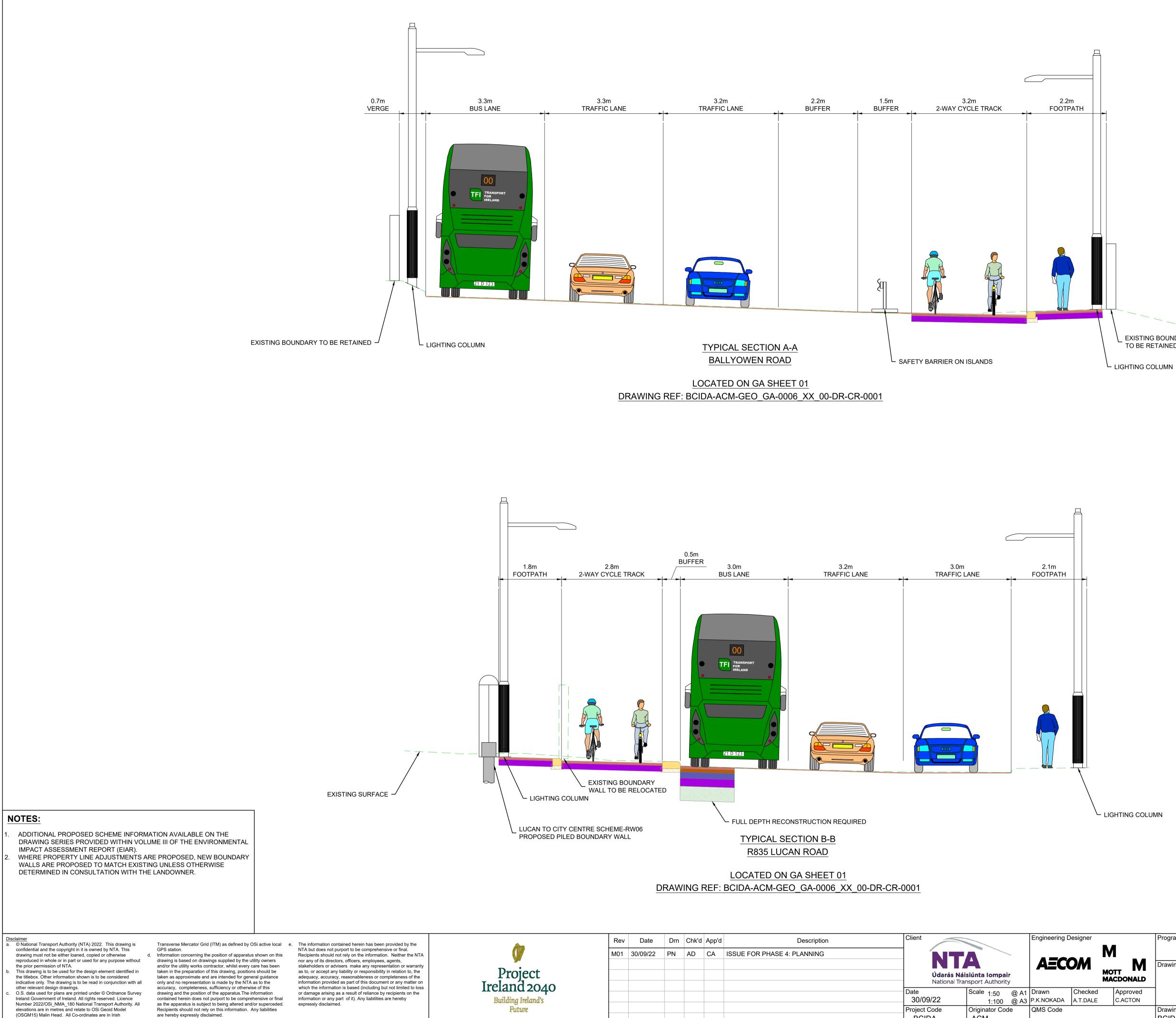


BUSCONNECTS DUBLIN





	Rev	Date	Drn	Chk'd	App'd	Description	Client		Engineering D	Designer	
	M01	30/09/22	PN	AD	CA	ISSUE FOR PHASE 4: PLANNING		ATL		.	Μ
et of the								arás Náisiúnta Iompair tional Transport Authority		OM	MOTT MACDO
040 nd's							Date 30/09/22	Scale _{N/A} @ A′ N/A @ A3	1 Drawn 3 P.K.NOKADA	Checked A.T.DALE	Appr C.AC
							Project Code BCIDA	e Originator Code ACM	QMS Code		
							[DO NOT SCALE USE FIG	URED DIME	NSIONS	ONLY

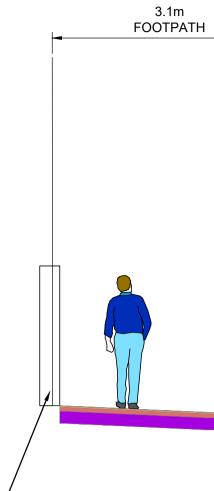


	Rev	Date	Drn	Chk'd	App'd	Description	Client		Engineering D	esigner		Programme Title BUSCONNECTS [DUBLIN	
	M01	30/09/22	PN	AD	CA	ISSUE FOR PHASE 4: PLANNING					Μ	CORE BUS CORRIDORS INFRA	STRUCTURE WORKS	S
ct								rás Náisiúnta lompair			MOTT MACDONALD	Drawing Title LUCAN TO CITY CENTRE CORE BUS		
2040 m ^{1/2}							Date 30/09/22		Drawn	Checked	Approved	TYPICAL CROSS SEC		
land's							Project Code BCIDA	1:100 @ A3 Originator Code ACM	QMS Code	A.I.DALE	C.ACTON	Drawing File Name BCIDA-ACM-GEO CS-0006 XX 00-DR-CR-0001	Sheet Number Status 01 of 23 A	Rev M01

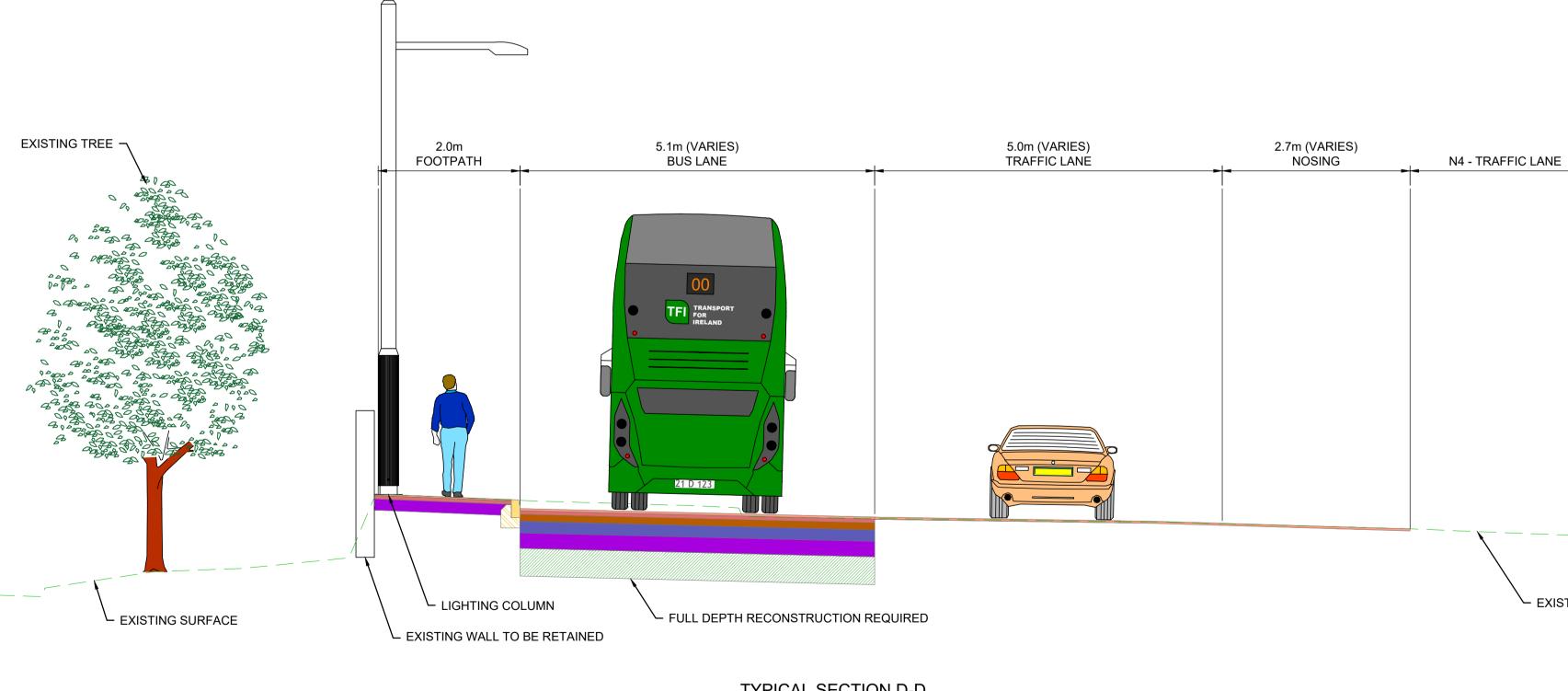
IGHTING	COLUMN

EXISTING BOUNDARY

TO BE RETAINED



EXISTING BOUNDARY TO BE RETAINED -



IMPACT ASSESSMENT REPORT (EIAR). WHERE PROPERTY LINE ADJUSTMENTS ARE PROPOSED, NEW BOUNDARY WALLS ARE PROPOSED TO MATCH EXISTING UNLESS OTHERWISE DETERMINED IN CONSULTATION WITH THE LANDOWNER.

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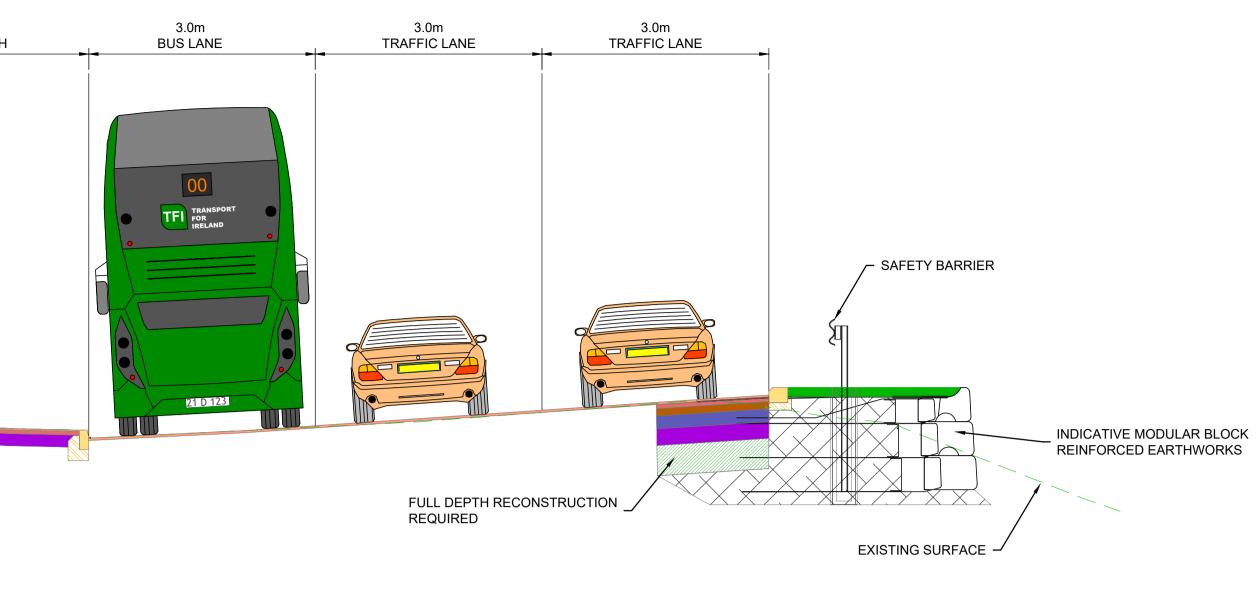
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TYPICAL SECTION C-C N4 JUNCTION 3 OUTBOUND OFF-SLIP

LOCATED ON GA SHEET 02 DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0002

TYPICAL SECTION D-D JUNCTION 3 INBOUND ON-SLIP

LOCATED ON GA SHEET 02

DRAWING REF: BCIDA-ACM-GEO GA-0006 XX 00-DR-CR-0002

	Rev	Date	Drn	Chk'd	App'd	Description	Client			Engineering D	esigner)		Programme Title BUSCONNECTS D		
	M01	30/09/22	PN	AD	CA	ISSUE FOR PHASE 4: PLANNING						M	CORE BUS CORRIDORS INFRAS	STRUCTURE WORKS	;
ect									siúnta lompair Isport Authority		MC	MOTT MACDONALD	Drawing Title LUCAN TO CITY CENTRE CORE BUS		
2040 eland's							Date 30/09/2	22	Scale 1:50 @ A1 1:100 @ A3	Drawn P.K.NOKADA	Checked A.T.DALE	••	TYPICAL CROSS SEC	HONS	
е							Project Co BCIDA		Originator Code ACM	QMS Code	•		Drawing File Name BCIDA-ACM-GEO_CS-0006_XX_00-DR-CR-0002	Sheet NumberStatus02of23A	Rev M01
								DO NOT	SCALE USE FIG	JRED DIME	NSIONS	ONLY			

← EXISTING SURFACE

PROPOSED RELOCATED BOUNDARY WALL -

LIGHTING COLUMN –

NOTES:

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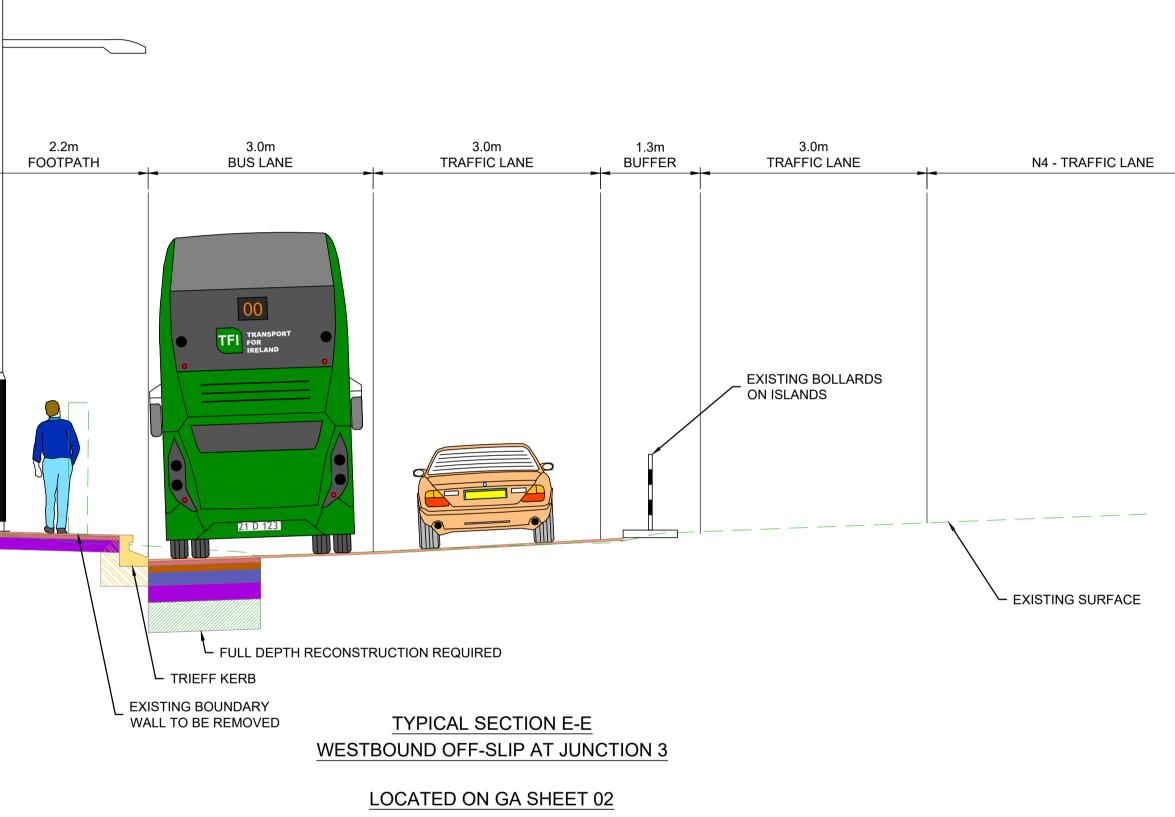
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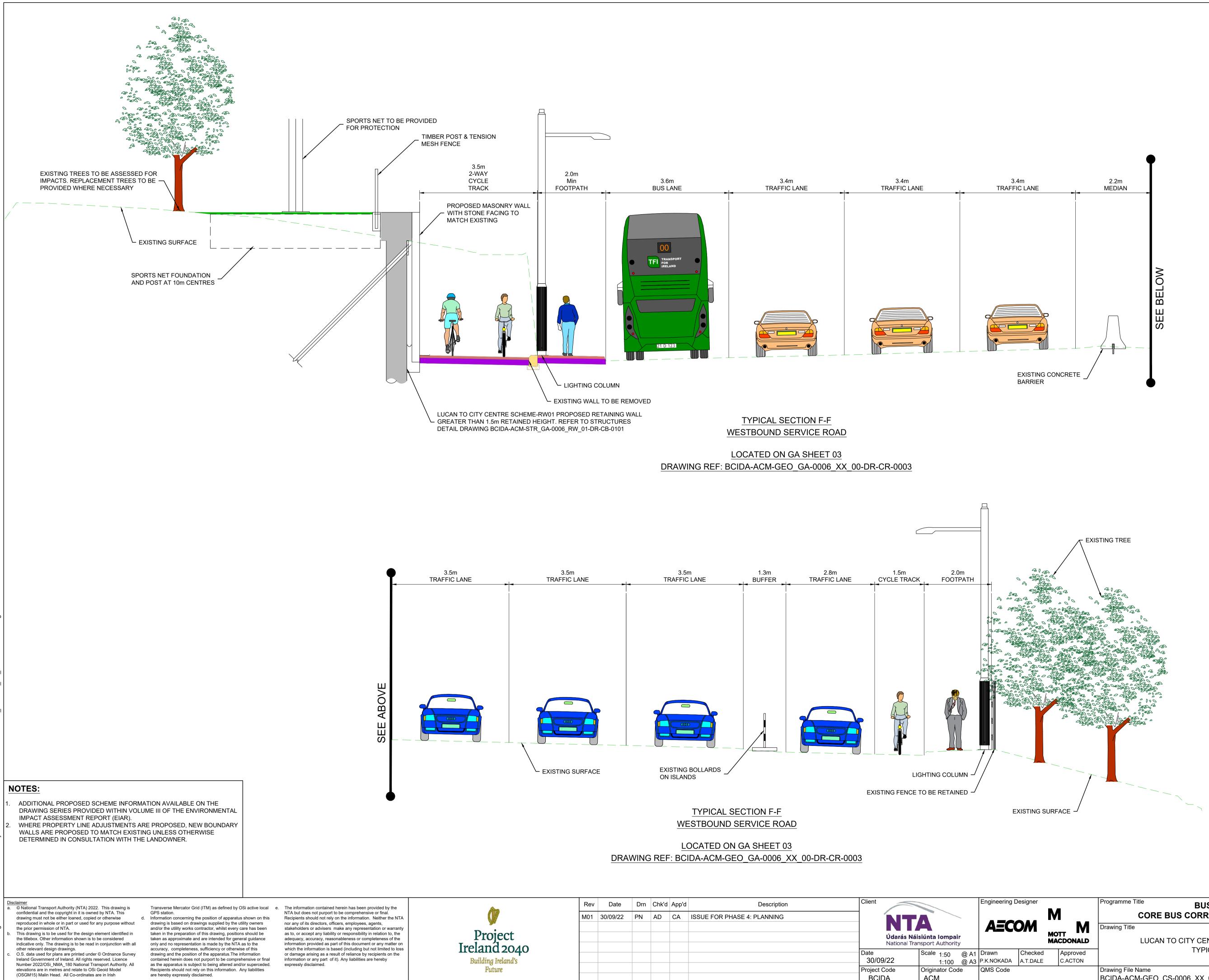
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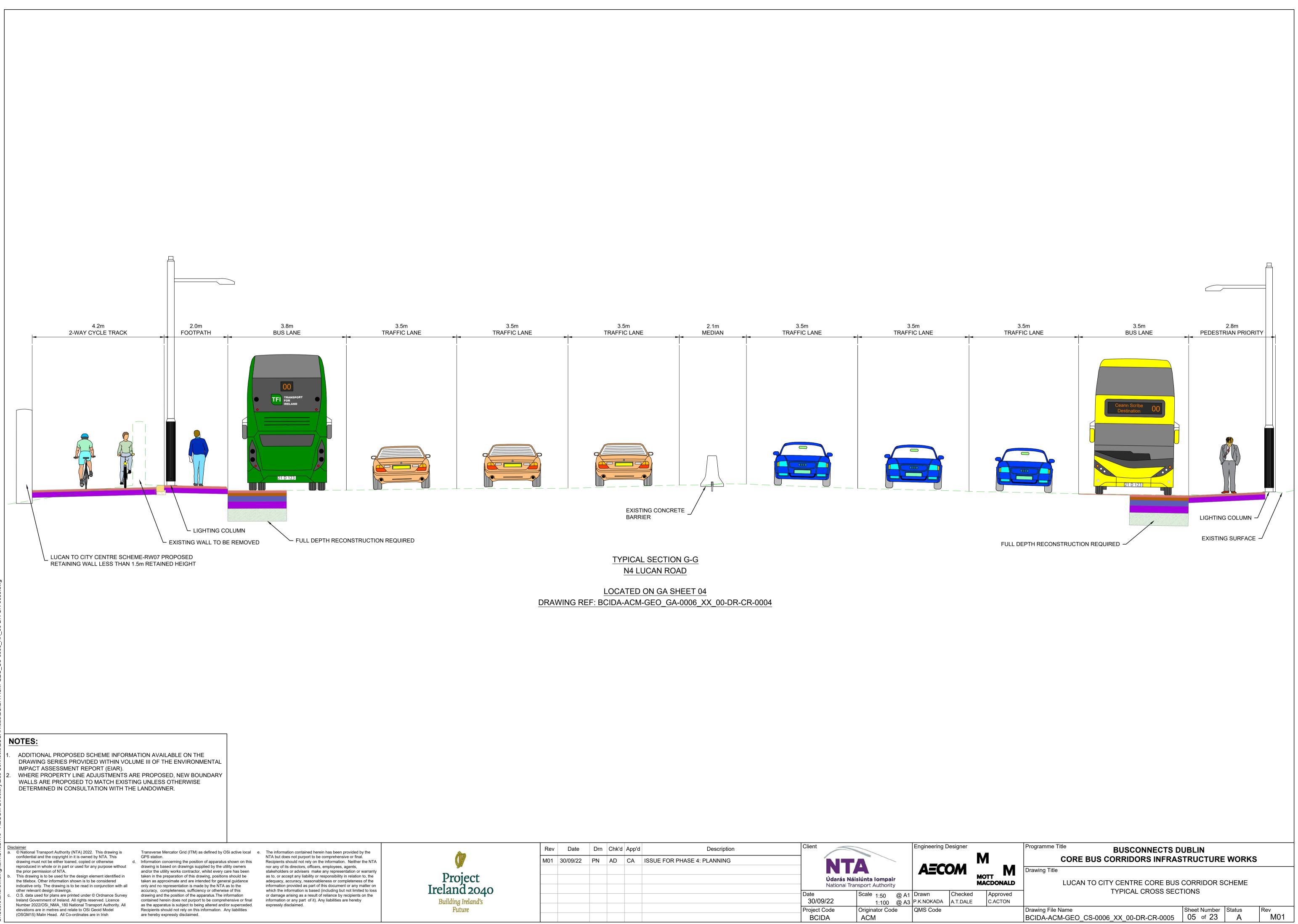


DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0002

	Rev Date	 Chk'c	App'd CA	Description ISSUE FOR PHASE 4: PLANNING	Client		Engineering D)esigner	М	Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS
t					Údarás I	TA Náisiúnta Iompair Transport Authority	AECO		MOTT MACDONALD	Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME
0 40 1d's					Date 30/09/22	Scale _{1:50} @ A1 1:100 @ A3		Checked A.T.DALE	Approved C.ACTON	TYPICAL CROSS SECTIONS
					Project Code BCIDA	Originator Code ACM	QMS Code			Drawing File NameSheet NumberStatusRevBCIDA-ACM-GEOCS-0006XX00-DR-CR-000303of23AM01

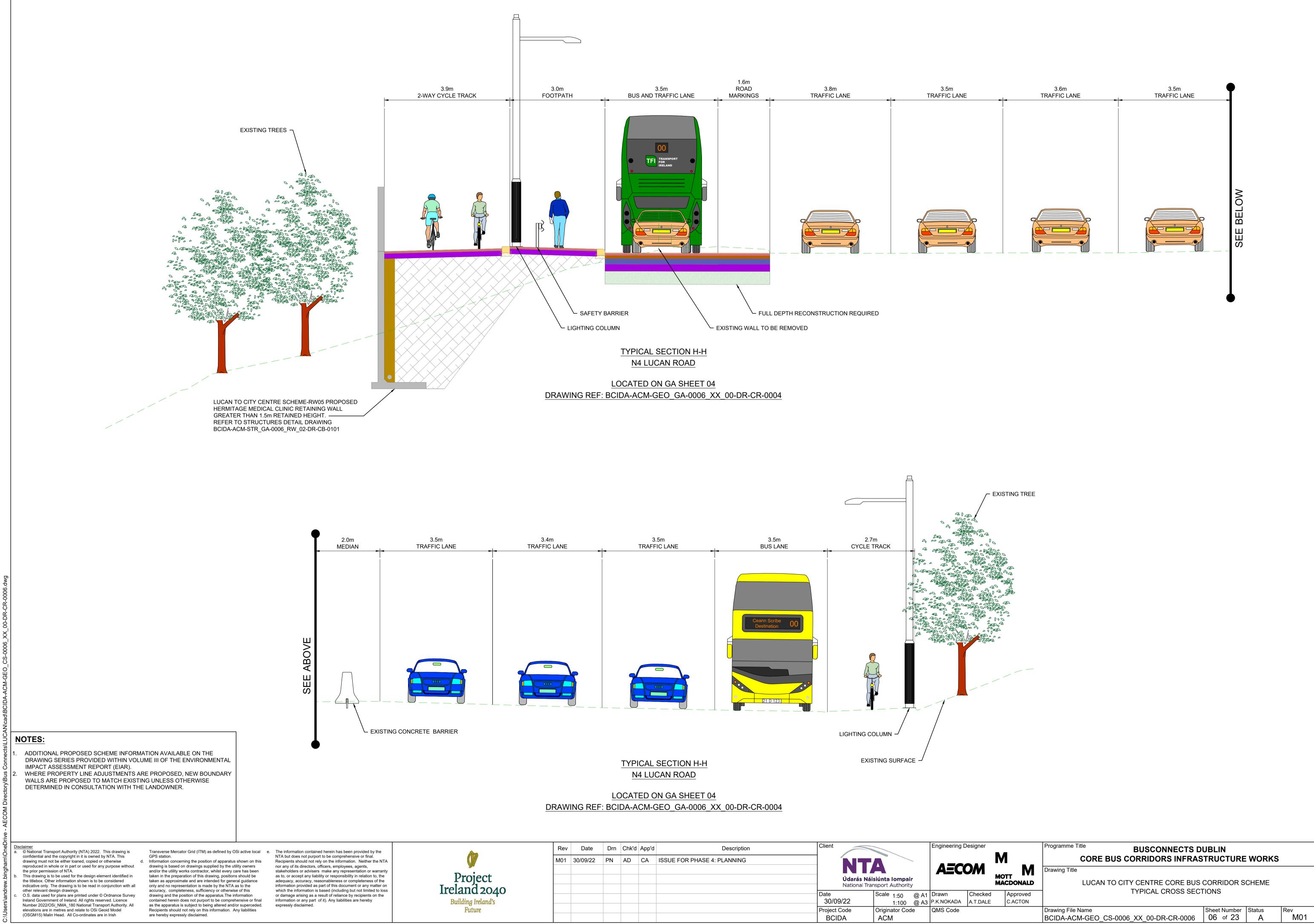


			Drn Ch			Description	Client			Engineering D	esigner	М	Programme Title BUSCONNECTS I CORE BUS CORRIDORS INFRA	-	7C
ct	M01 30/09	9/22 F	PN AE) C,	A	ISSUE FOR PHASE 4: PLANNING			TA Náisiúnta Iompair Transport Authority	AECO		MOTT MACDONALD	Drawing Title LUCAN TO CITY CENTRE CORE BUS	S CORRIDOR SCHEME	.5
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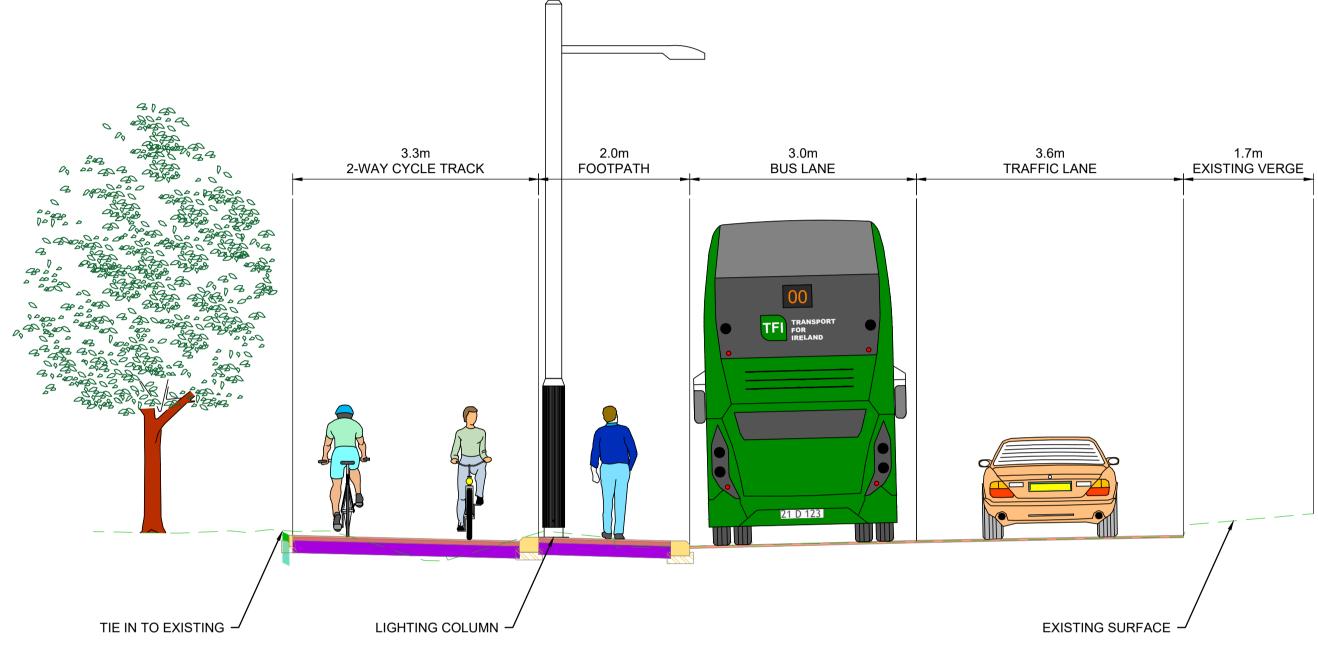




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	Rev	Date	Drn	Chk'd	App'd	Description	Client		Engineering D	esigner	•
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ct								siúnta Iompair nsport Authority	AECO		MO MA
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							Project C BCID		Originator Code ACM	QMS Code			
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TYPICAL SECTION I-I EASTBOUND OFF-SLIP AT JUNCTION 2

LOCATED ON GA SHEET 05 DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0005

	Rev	Date	Drn	Chk'd	App'd	Description	Client		Engineering D	esigner	_
	M01	30/09/22	PN	AD	CA	ISSUE FOR PHASE 4: PLANNING		siúnta lompair nsport Authority	AECO		
)40 I's							Date 30/09/22		Drawn P.K.NOKADA	Checked A.T.DALE	
							Project Code BCIDA	Originator Code ACM	QMS Code		

Μ	Programme Title BUSCONNECTS D CORE BUS CORRIDORS INFRAS		WORKS	
MOTT MACDONALD	Drawing Title LUCAN TO CITY CENTRE CORE BUS TYPICAL CROSS SEC		CHEME	
Approved C.ACTON				
	Drawing File Name BCIDA-ACM-GEO_CS-0006_XX_00-DR-CR-0007	Sheet Number 07 of 23	Status A	Rev M01
	·	•	•	•

TIE IN TO EXISTING -

LIGHTING COLUMN -

EXISTING BOUNDARY TO BE RETAINED -

LIGHTING COLUMN -

NOTES:

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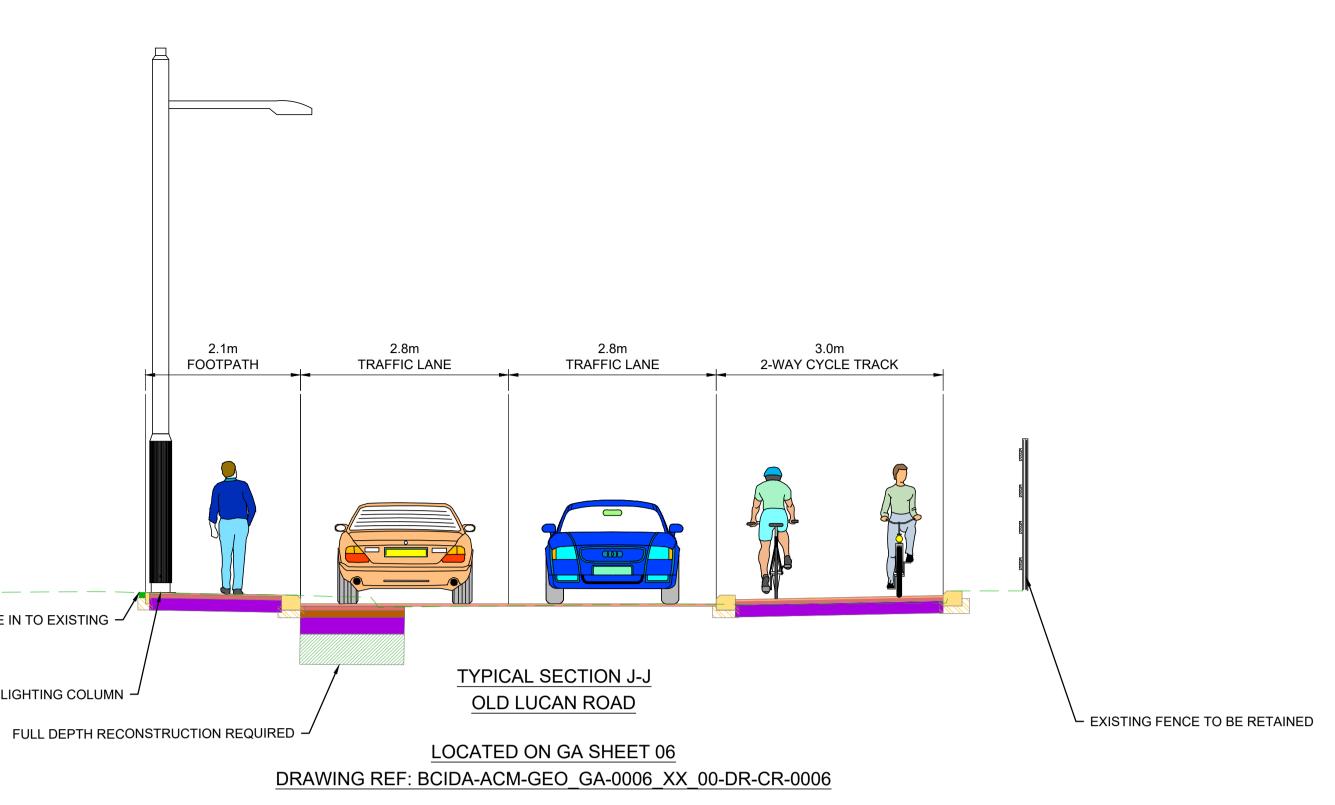
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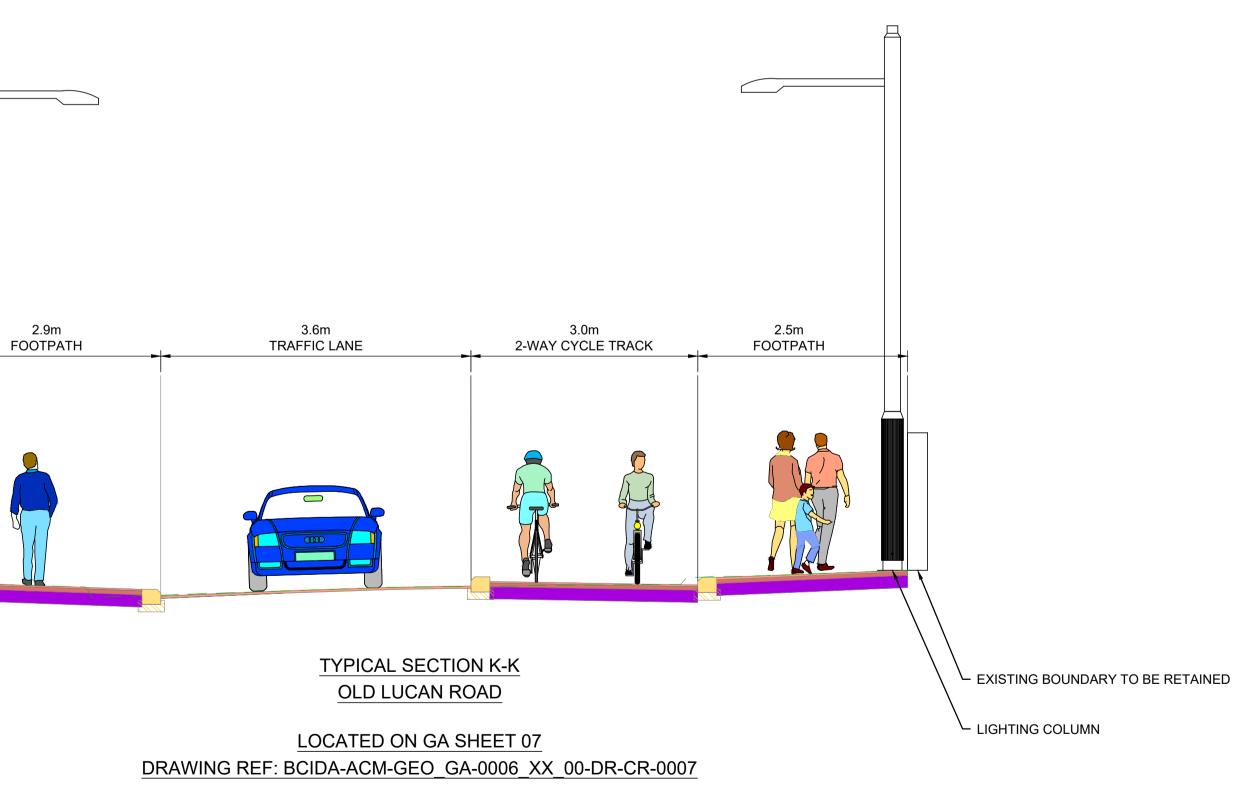
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GPS station. d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions 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.

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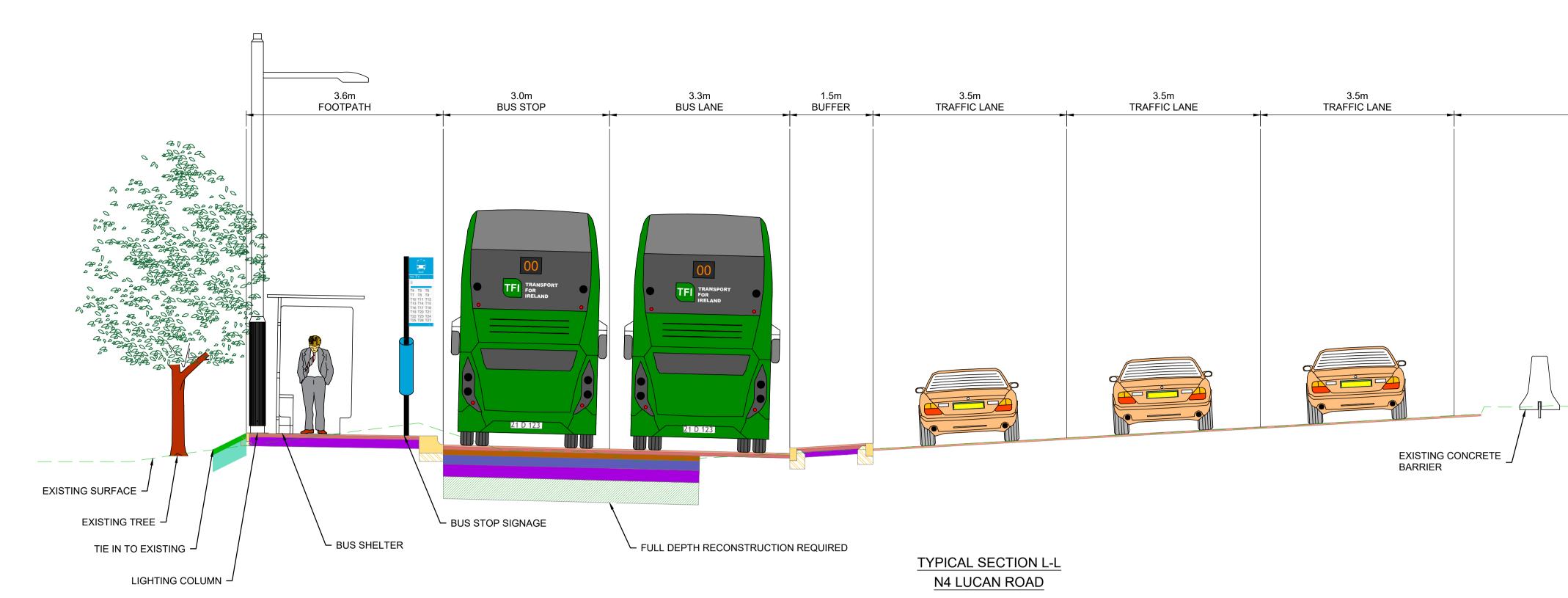


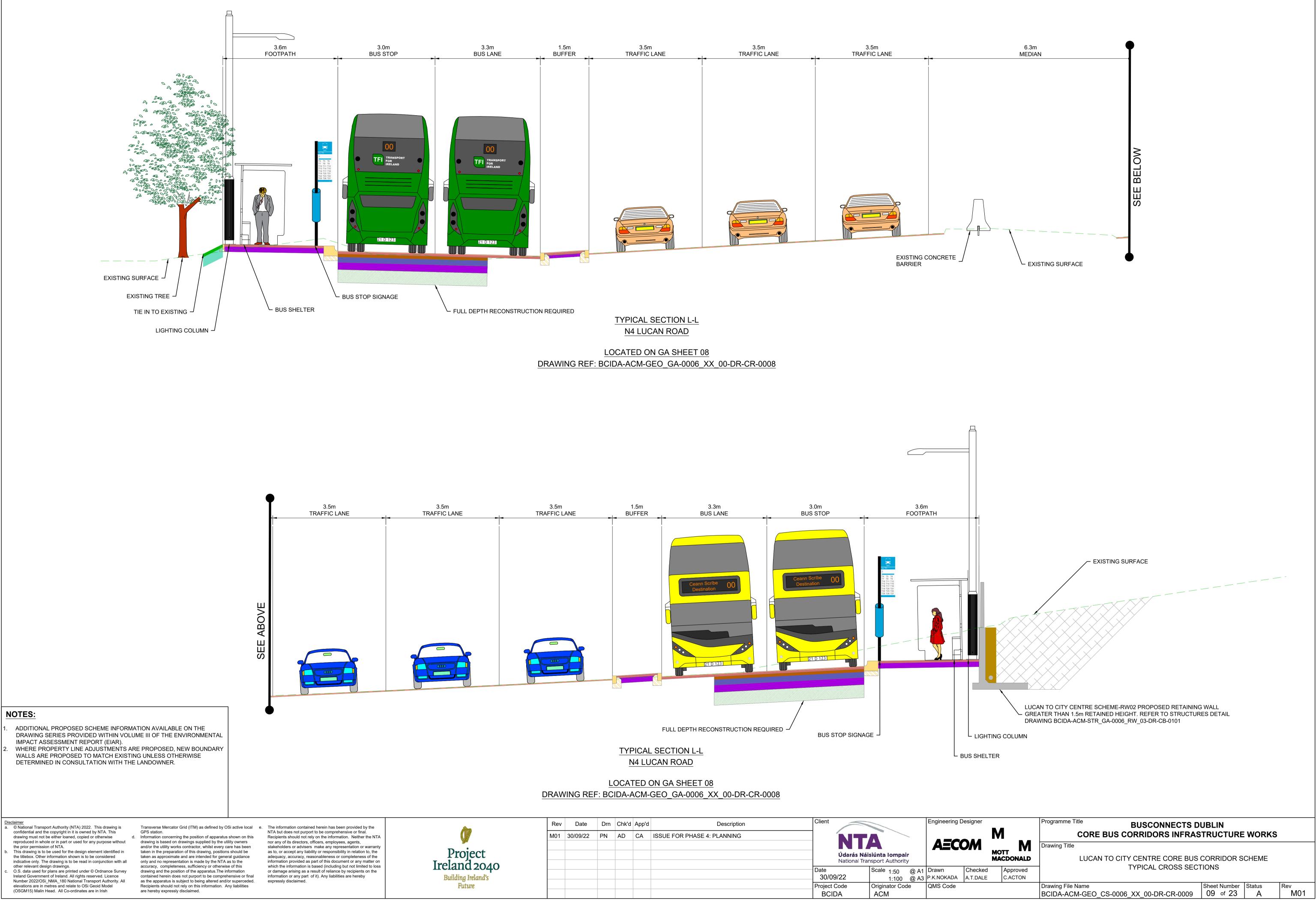




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Μ		Programme Title BUSCONNECTS D CORE BUS CORRIDORS INFRAS	-	WORKS	
MOT MAC	T DONALD	Drawing Title LUCAN TO CITY CENTRE CORE BUS	CORRIDOR S	CHEME	
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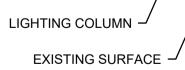
(OSGM15) Malin Head. All Co-ordinates are in Irish

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	Rev	Date	Drn	Chk'd	App'd	Description	Client		Engineering D	esigner		
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40 s							Date 30/09/22		Drawn P.K.NOKADA	Checked A.T.DALE	Ar C./	
							Project Code BCIDA	Originator Code ACM	QMS Code			
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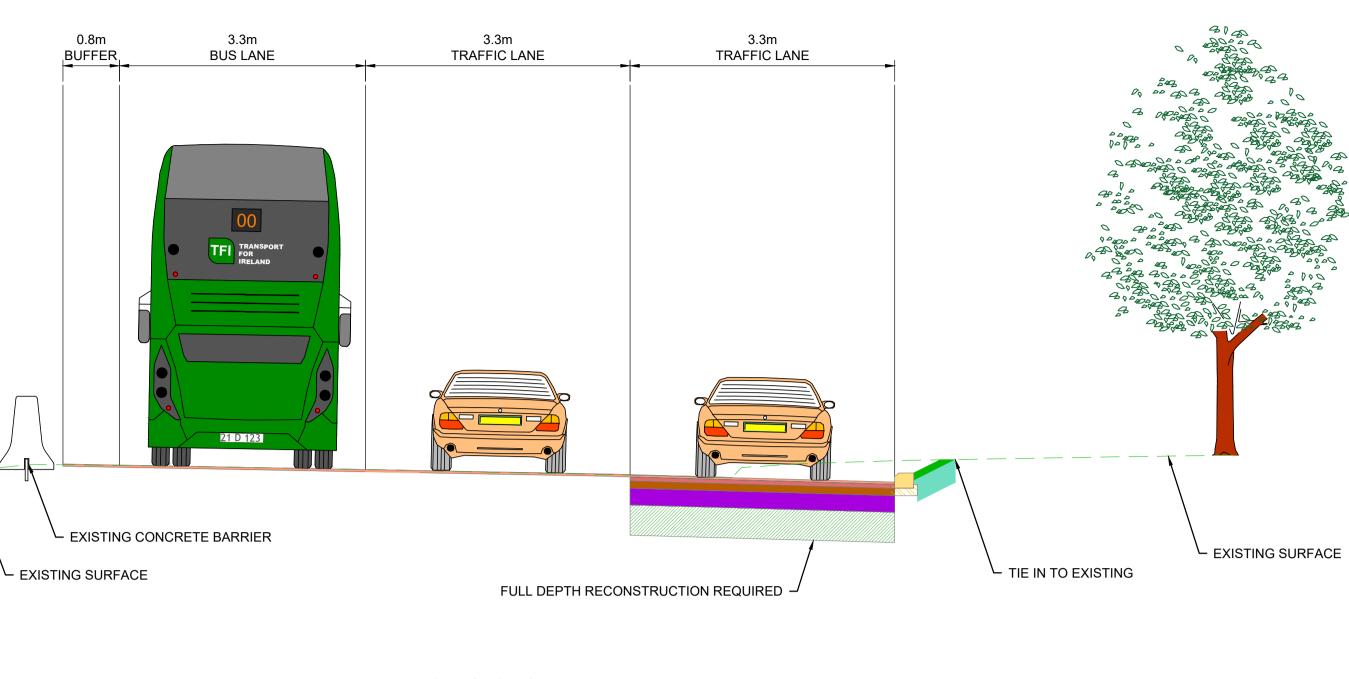
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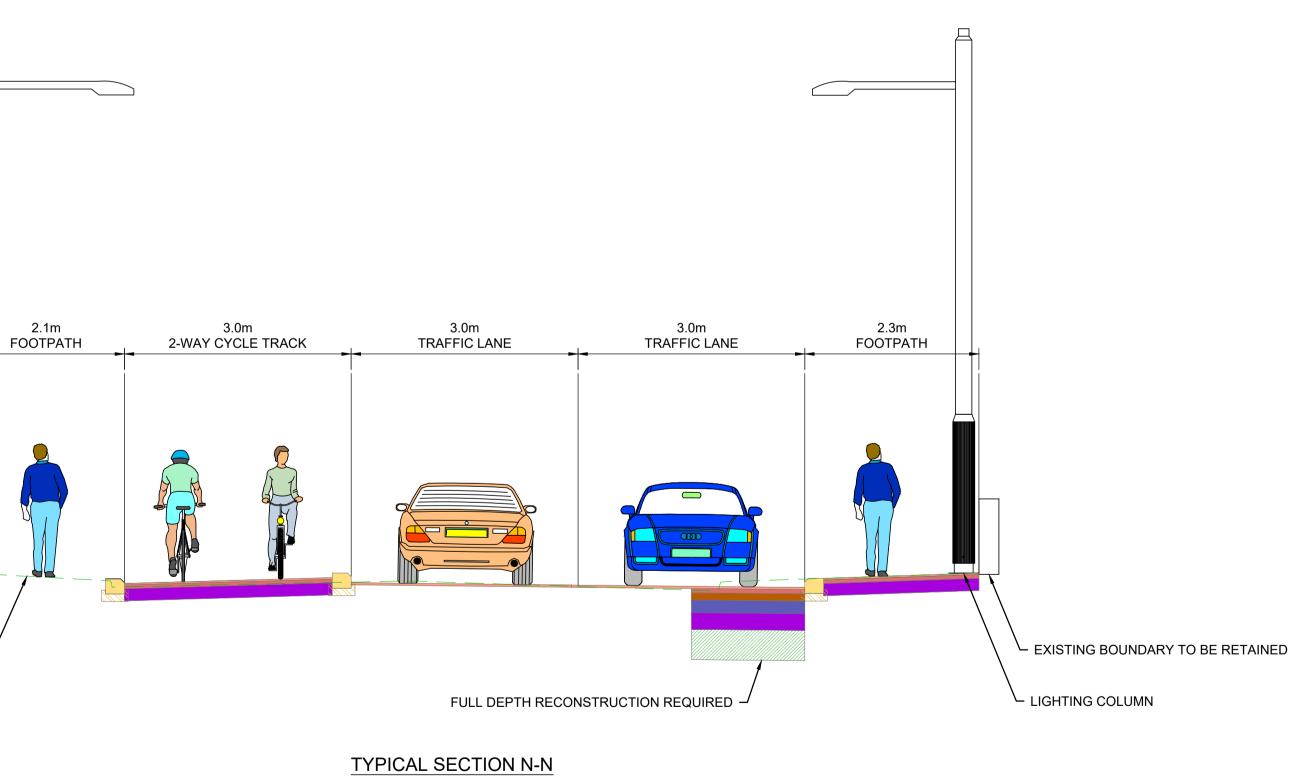
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TYPICAL SECTION M-M R148 PALMERSTOWN BYPASS

LOCATED ON GA SHEET 10 DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0010



OLD LUCAN ROAD

LOCATED ON GA SHEET 11

DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0011

	Rev	Date	Drn	Chk'd	App'd	Description	Client		Engineering De	esigner		Programme Title BUSCONNECTS DUBLIN
	M01	30/09/22	PN	AD	CA	ISSUE FOR PHASE 4: PLANNING	— N 1				M	CORE BUS CORRIDORS INFRASTRUCTURE WORKS
ct							Údarás N	láisiúnta lompair Transport Authority	AECO	M	MOTT MACDONALD	Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME
2040 and's							Date 30/09/22			Checked A.T.DALE		TYPICAL CROSS SECTIONS
							Project Code BCIDA	Originator Code ACM	QMS Code			Drawing File NameSheet NumberStatusRevBCIDA-ACM-GEO_CS-0006_XX_00-DR-CR-001010 of 23AM01



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 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

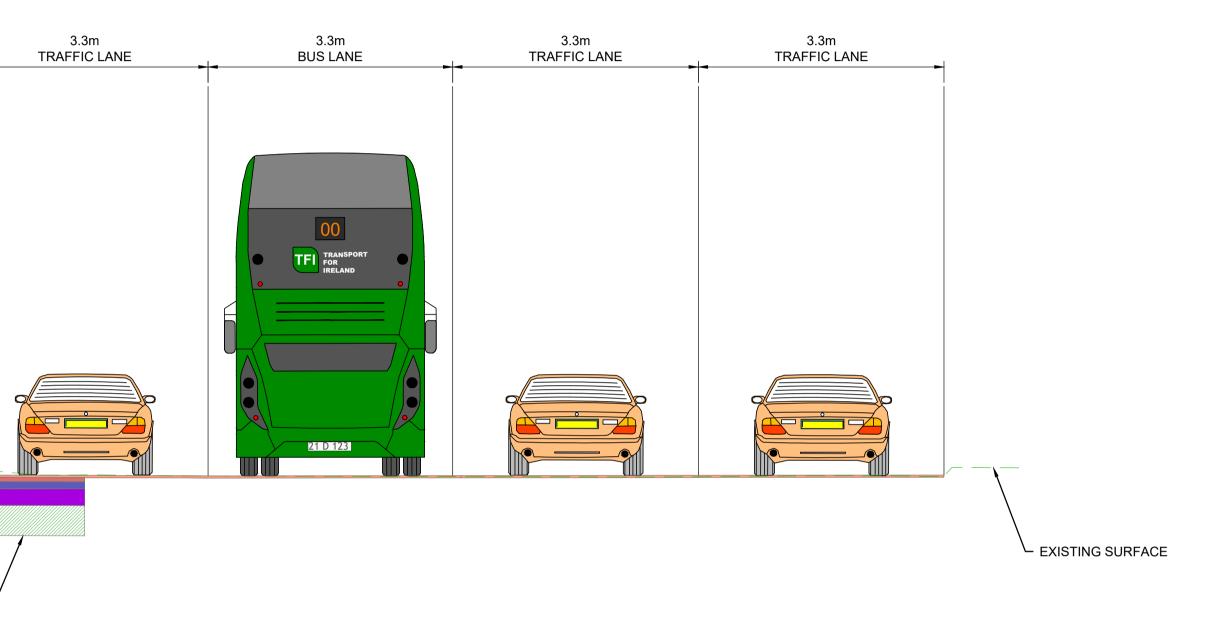
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EXISTING SURFACE

FULL DEPTH RECONSTRUCTION REQUIRED -

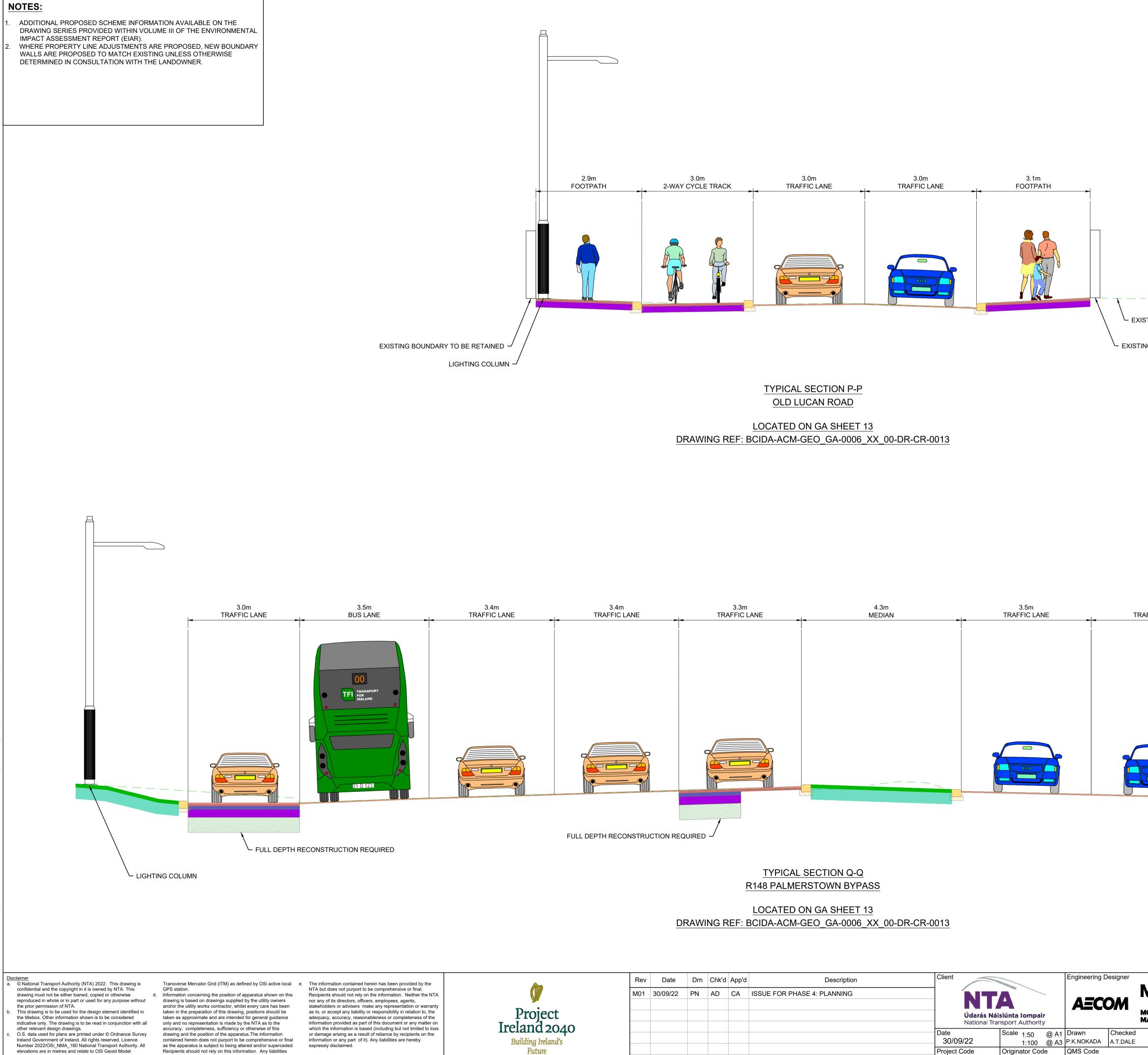




TYPICAL SECTION O-O R148 PALMERSTOWN BYPASS

LOCATED ON GA SHEET 12 DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0012

	Rev	Date	Drn	Chk'd	App'd	Description	Client		Engineering D	esigner	•	Programme Title BUSCONNECTS DUBLIN
	M01	30/09/22	PN	AD	CA	ISSUE FOR PHASE 4: PLANNING					M	CORE BUS CORRIDORS INFRASTRUCTURE WORKS
							NT	A		DM	M	Drawing Title
ct								isiúnta Iompair Insport Authority			MOTT MACDONALD	LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME
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and's				_			30/09/22	1:100 @ A3	P.K.NOKADA	A.T.DALE	C.ACTON	
							Project Code	Originator Code	QMS Code			Drawing File Name Sheet Number Status Rev
							BCIDA	ACM				BCIDA-ACM-GEO_CS-0006_XX_00-DR-CR-0011 11 of 23 A M0



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

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Mott MacDonald Approved C.ACTON	Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME TYPICAL CROSS SECTIONS
	Drawing File Name Rev

Rev

M01

- EXISTING SURFACE

└─ EXISTING BOUNDARY TO BE RETAINED

 Drawing File Name
 Sheet Number
 Status

 BCIDA-ACM-GEO_CS-0006_XX_00-DR-CR-0012
 12 of 23
 A

3.0m FOOTPATH

EXISTING BOUNDARY TO BE RETAINED -

NOTES:

ADDITIONAL PROPOSED SCHEME INFORMATION AVAILABLE ON THE DRAWING SERIES PROVIDED WITHIN VOLUME III OF THE ENVIRONMENTAL

IMPACT ASSESSMENT REPORT (EIAR). WHERE PROPERTY LINE ADJUSTMENTS ARE PROPOSED, NEW BOUNDARY WALLS ARE PROPOSED TO MATCH EXISTING UNLESS OTHERWISE DETERMINED IN CONSULTATION WITH THE LANDOWNER.

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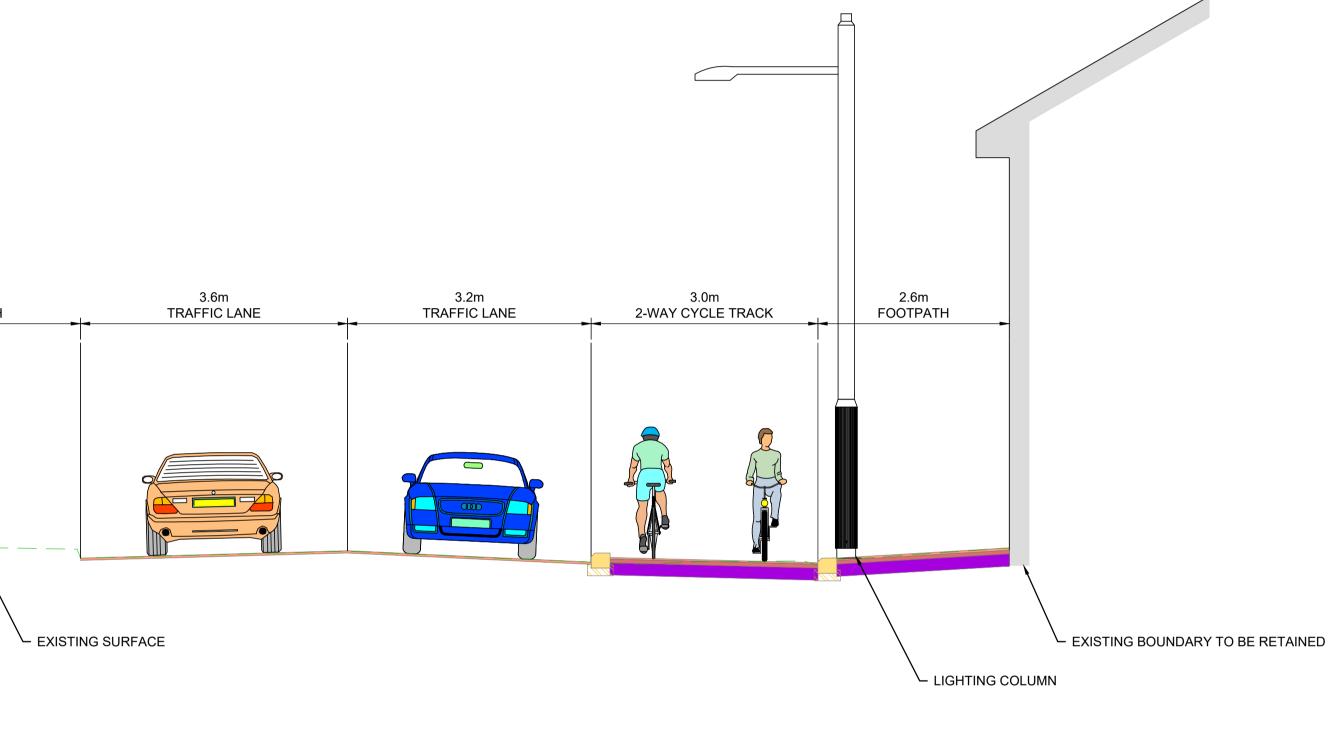
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TYPICAL SECTION R-R KENNELSFORT ROAD LOWER

LOCATED ON GA SHEET 14 DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0014

	Rev	Date	Drn	Chk'd	App'd	Description	Client				Engineering D	esigner	
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	Approved C.ACTON	TYPICAL CROSS SI	ECTIONS	
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			SHA	4.0m RED SURFACE	SHARED B	3.5m US AND TRAFFIC LANE
						DO TFI TRANSPORT FOR IRELAND

└─ TRIEF KERB LIGHTING COLUMN

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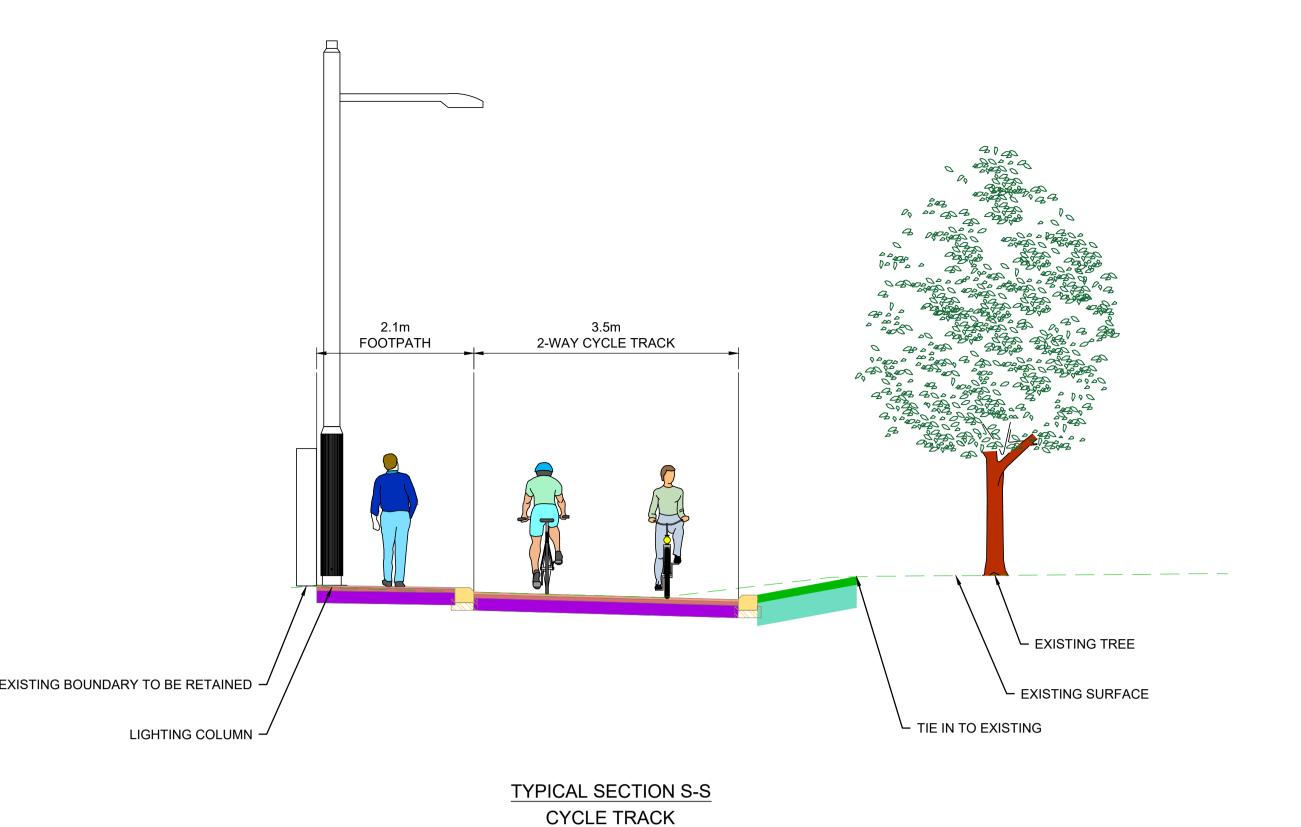
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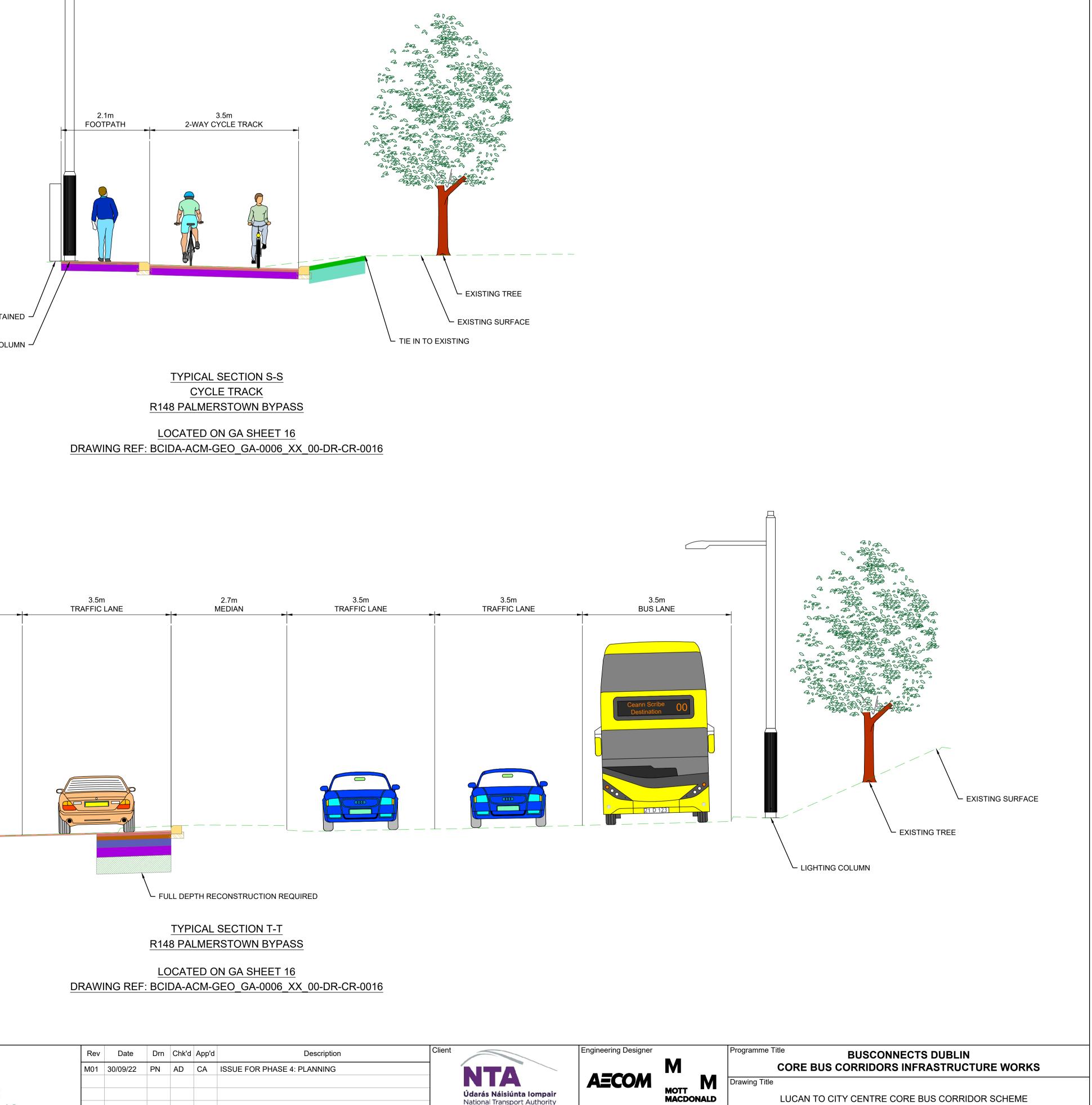
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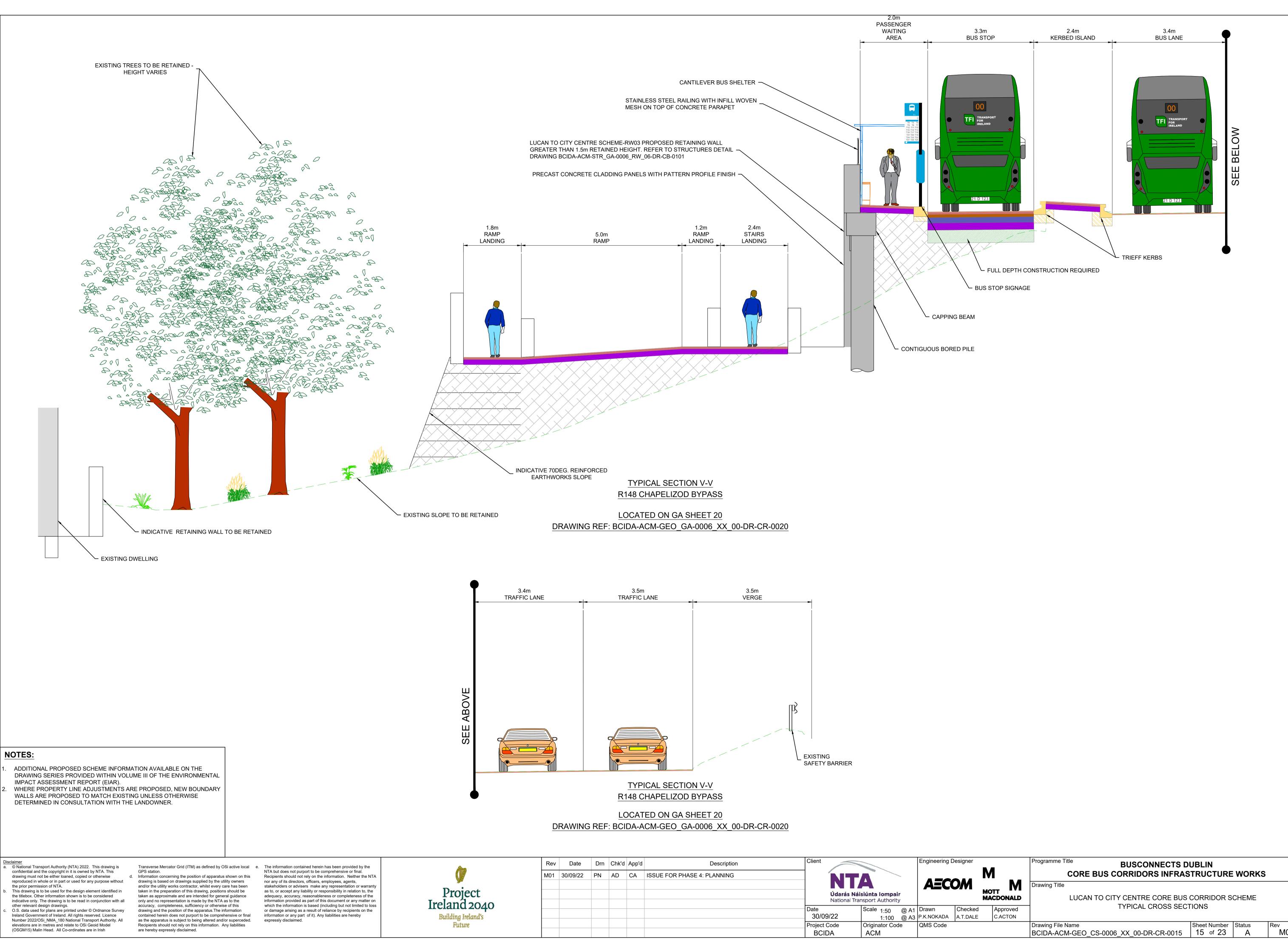
3.5m

TRAFFIC LANE

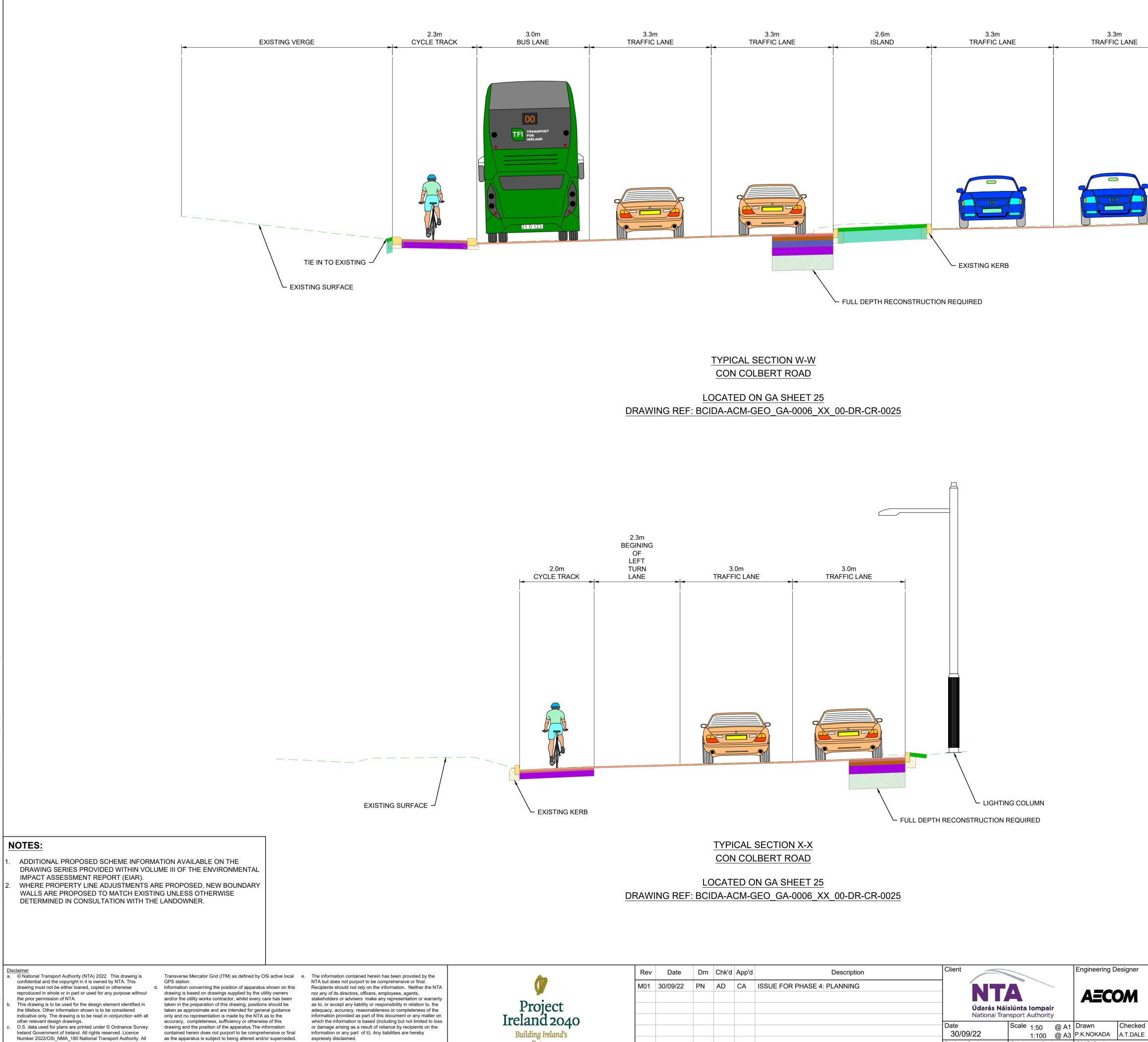




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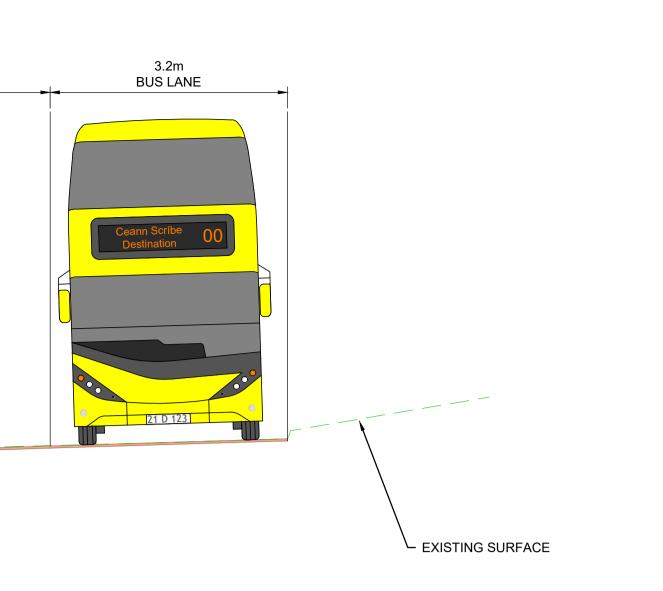
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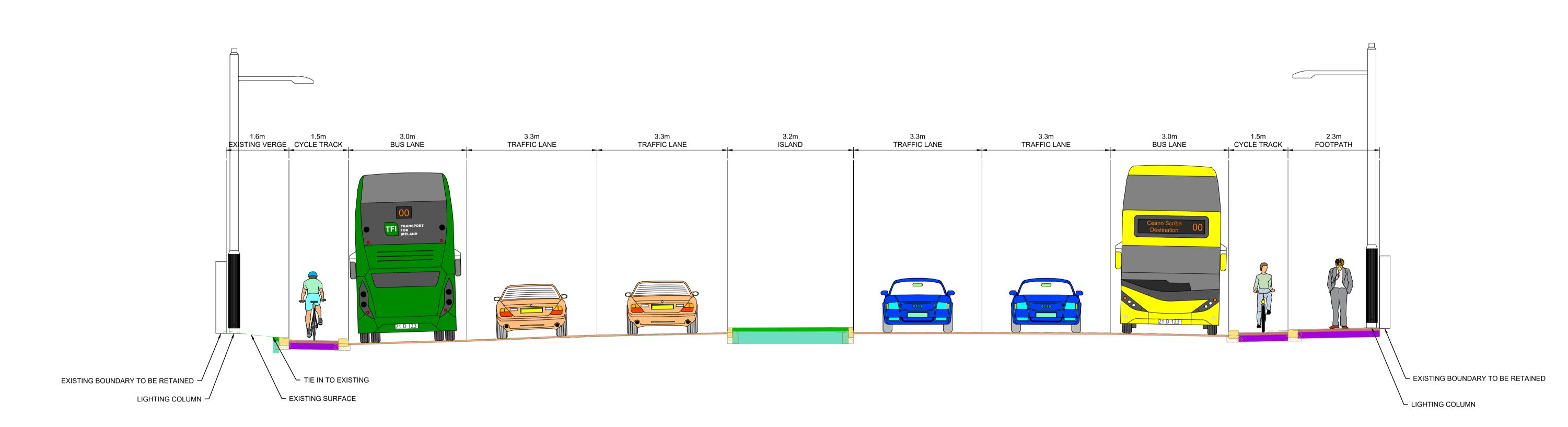
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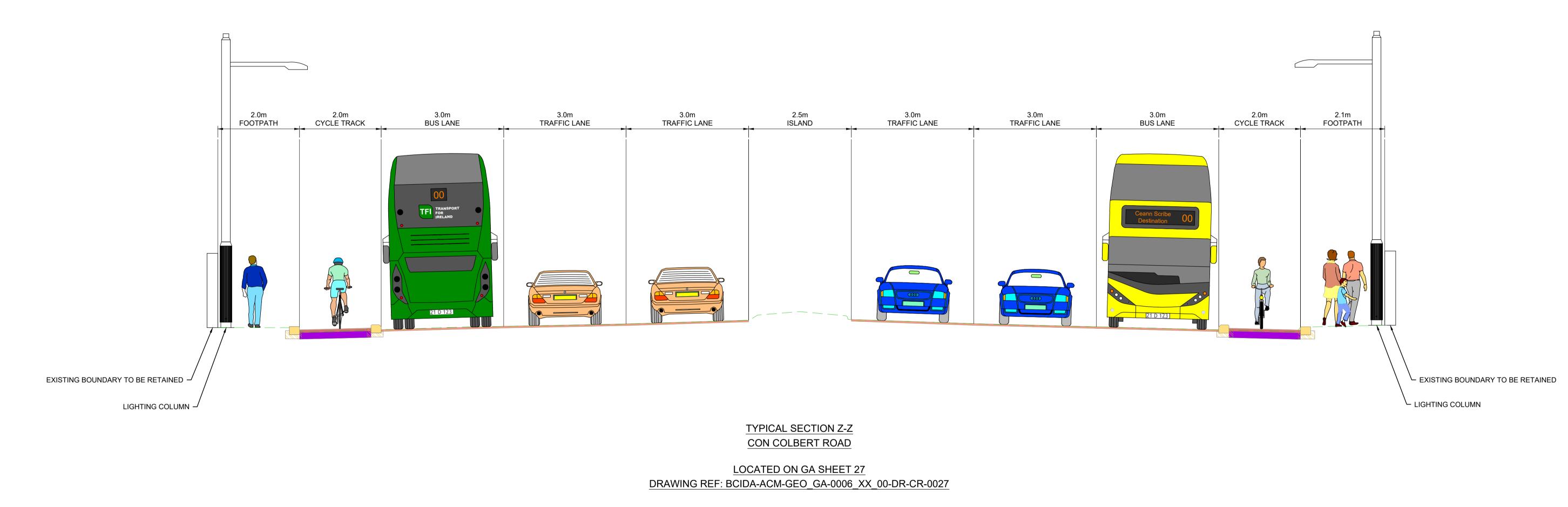


TYPICAL SECTION Y-Y R148 CON COLBERT ROAD

LOCATED ON GA SHEET 26 DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0026

	Rev	Date	Drn	Chk'd	App'd	Description	Client		Engineering D	esigner
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Approved C.ACTON	Drawing Title LUCAN TO CITY CENTRE CORE BUS TYPICAL CROSS SEC		CHEME									
	Drawing File Name BCIDA-ACM-GEO_CS-0006_XX_00-DR-CR-0017	Sheet Number 17 of 23	Status A	Rev M01								



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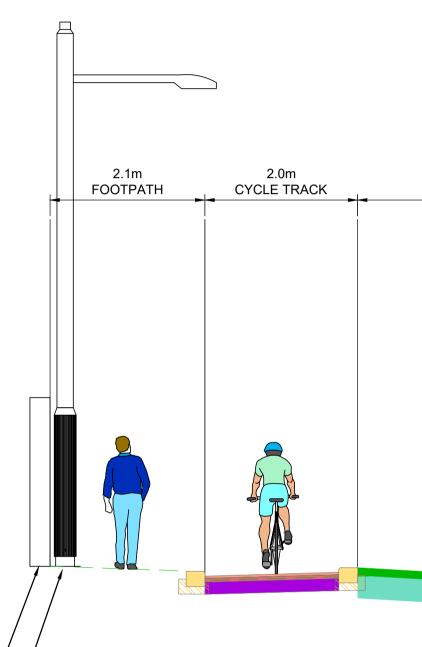
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EXISTING BOUNDARY TO BE RETAINED -

LIGHTING COLUMN

NOTES:

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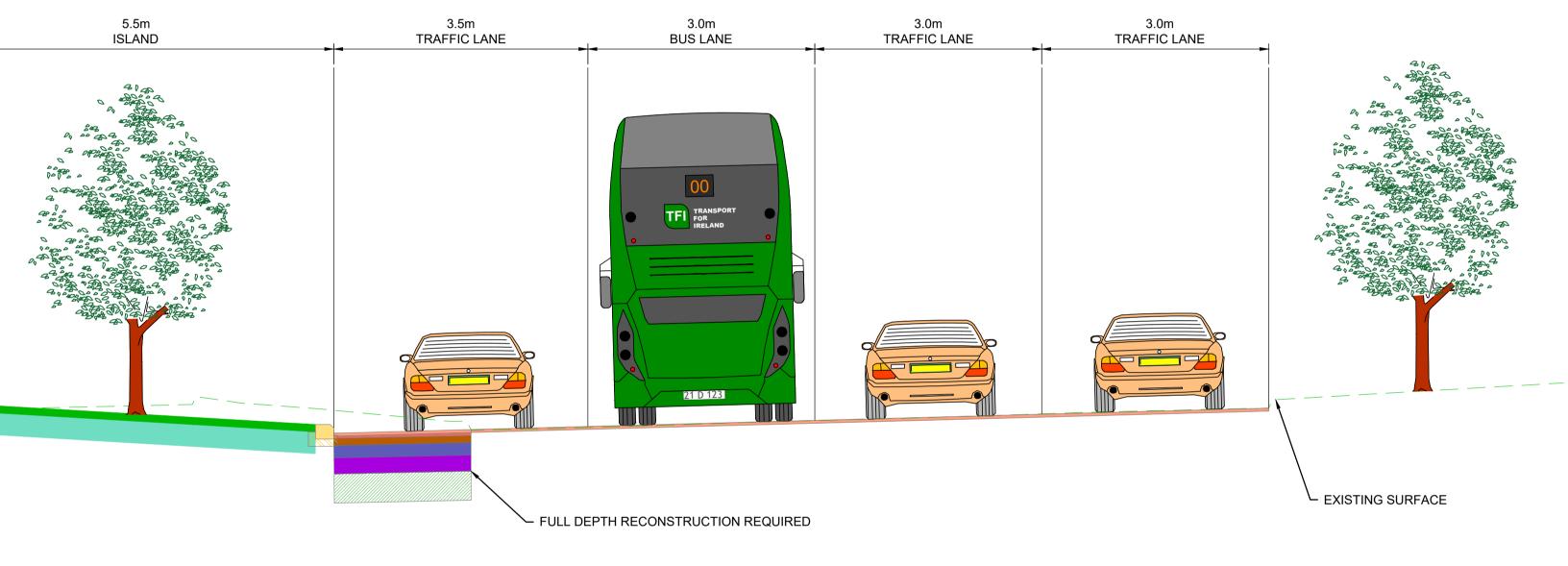
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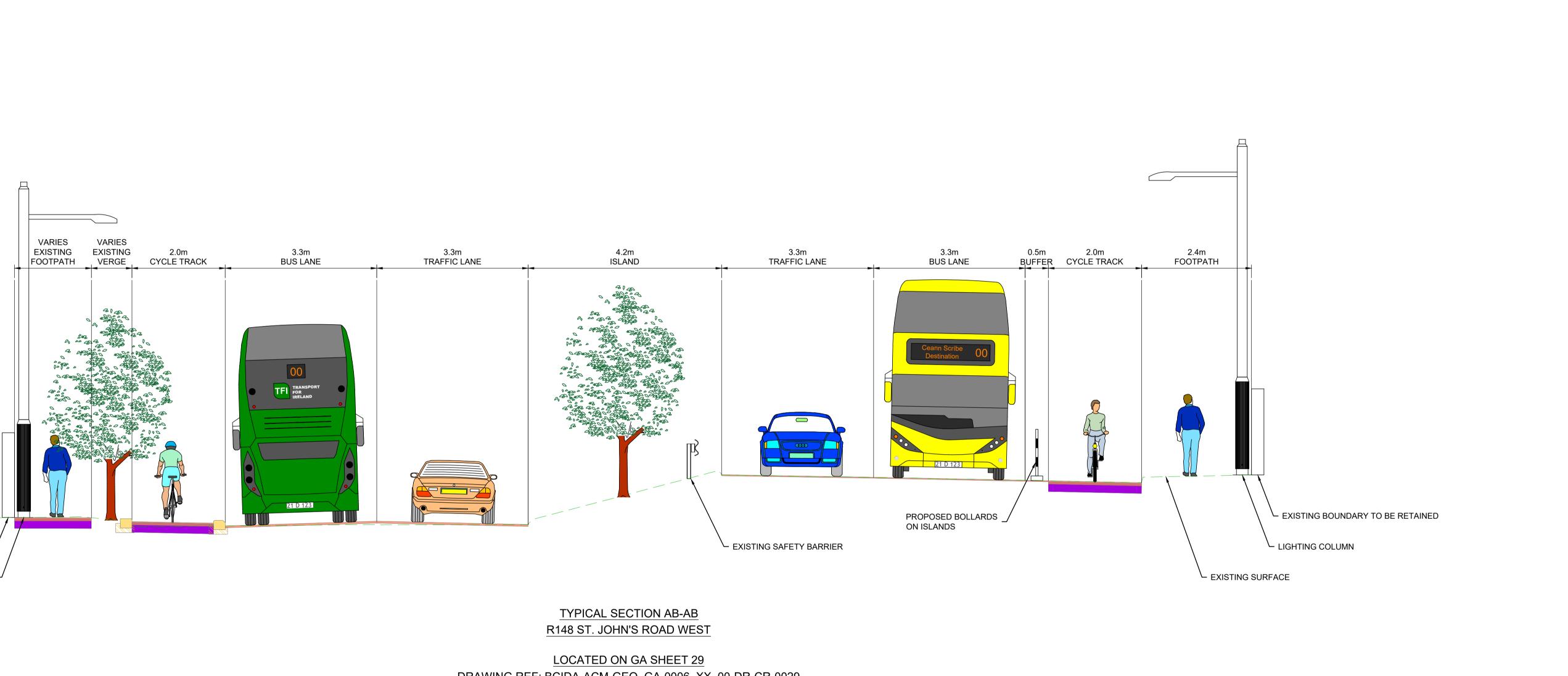




TYPICAL SECTION AA-AA CON COLBERT ROAD EASTBOUND

LOCATED ON GA SHEET 28 DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0028

	RevDateDrnChk'dApp'dM0130/09/22PNADCA	Description ISSUE FOR PHASE 4: PLANNING	Client		Engineering De	Ī	M	Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
ect 2040 cland's			Údarás Nái	Údarás Náisiúnta Iompair National Transport Authority				Drawing Title				
			Date 30/09/22	Scale _{1:50} @ A1 1:100 @ A3		Checked A.T.DALE	Approved C.ACTON	TYPICAL CROSS SEC	CTIONS			
			Project Code BCIDA		QMS Code			Drawing File Name BCIDA-ACM-GEO_CS-0006_XX_00-DR-CR-0019	Sheet Number Status 19 of 23 A	Rev M01		



EXISTING BOUNDARY TO BE RETAINED -

LIGHTING COLUMN -

NOTES:

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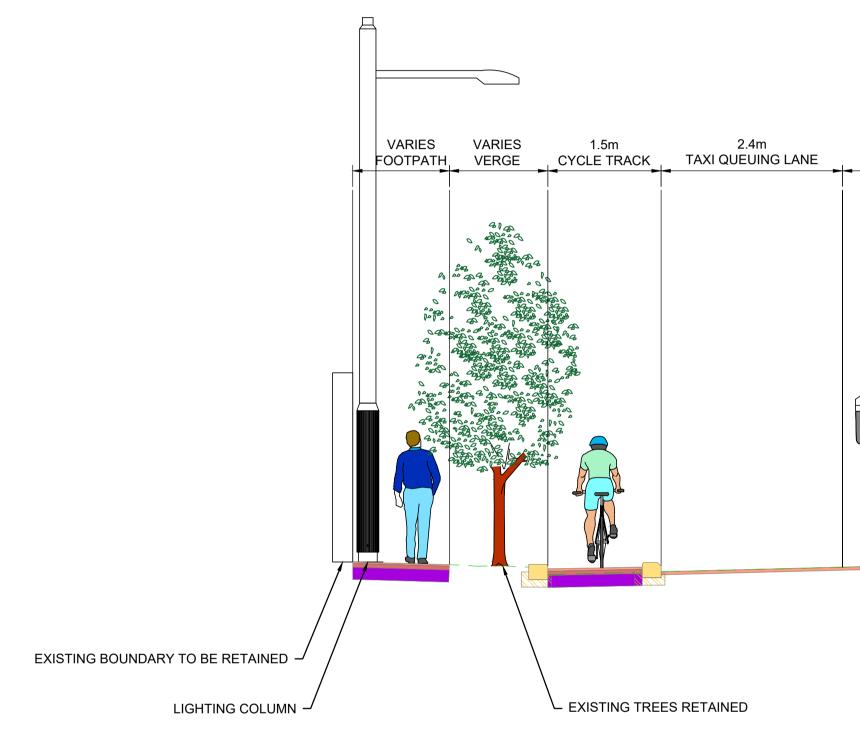
GPS station. d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended 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.

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DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0029

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			Údarás N	Údarás Náisiúnta Iompair National Transport Authority		AECOM MOTT MACDONALD			LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME			
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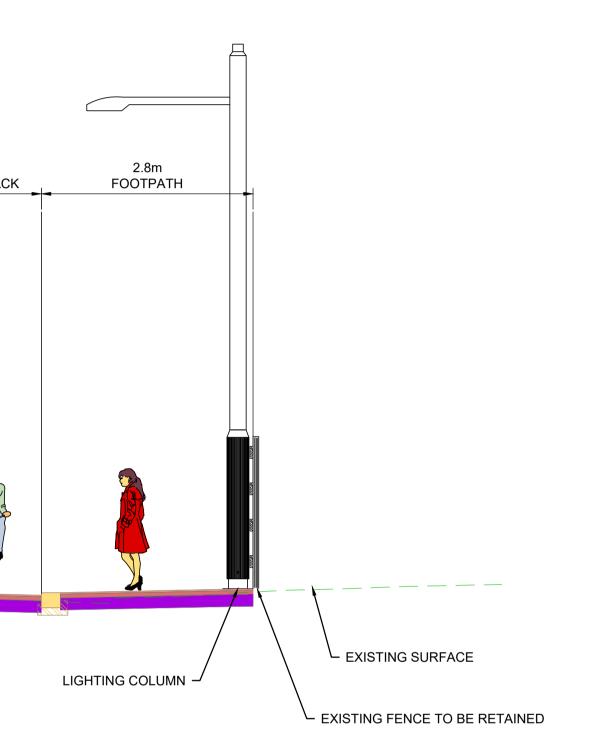
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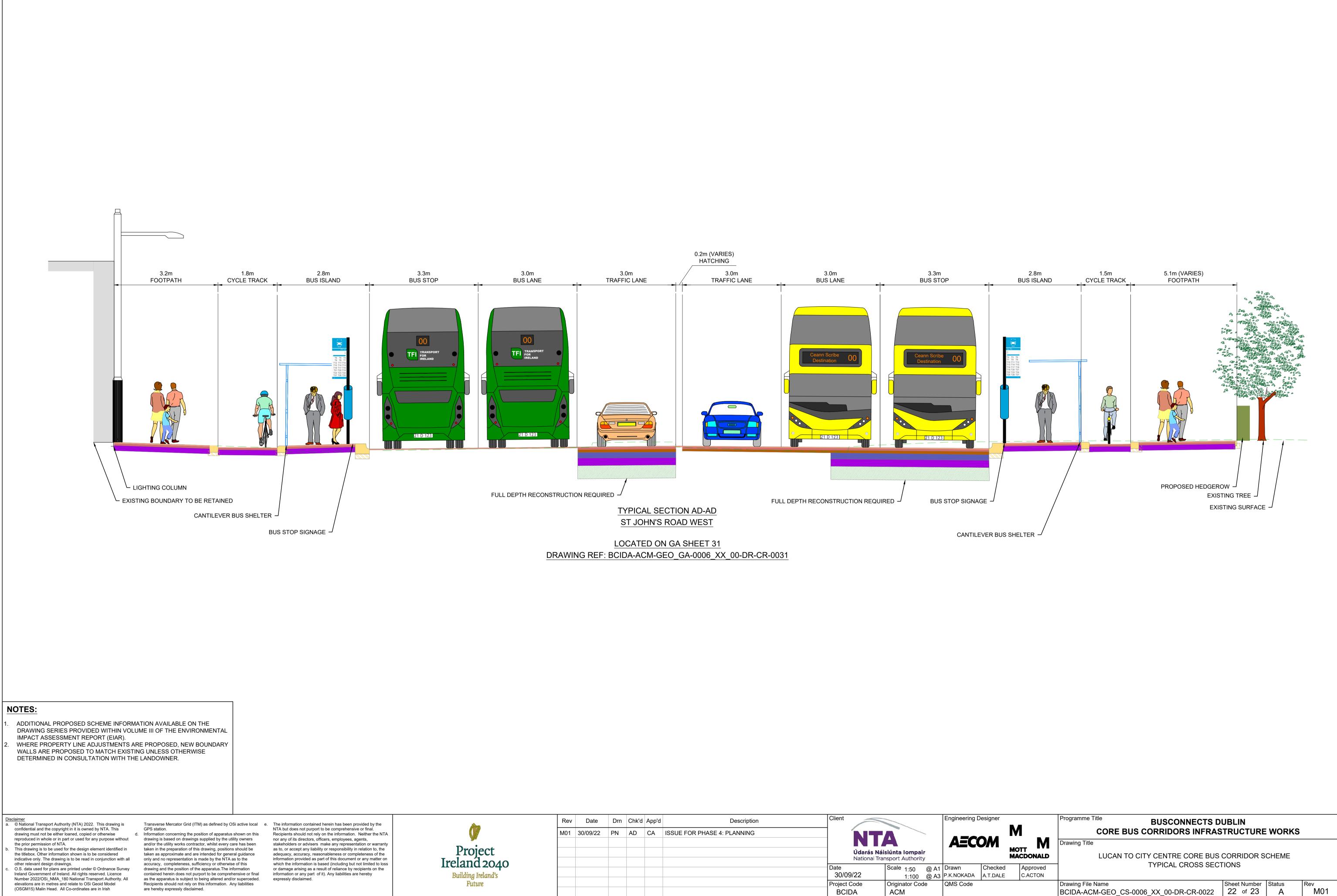
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							Project Code BCIDA	QMS Code			

R148 ST. JOHN'S ROAD WEST LOCATED ON GA SHEET 30 DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0030

3.3m TRAFFIC LANE 2.2m (VARIES) ISLAND 3.0m BUS LANE 3.0m TRAFFIC LANE 3.0m BUS LANE 1.8m CYCLE TRACK FOR 21 D 123 FULL DEPTH RECONSTRUCTION REQUIRED -TYPICAL SECTION AC-AC



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MOTT MACDONALD	Drawing Title LUCAN TO CITY CENTRE CORE BUS		CHEME							
Approved C.ACTON	TYPICAL CROSS SECTIONS									
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							Date 30/09/22		Drawn P.K.NOKADA	Checked A.T.DALE
							Project Code Originator BCIDA ACM		QMS Code	



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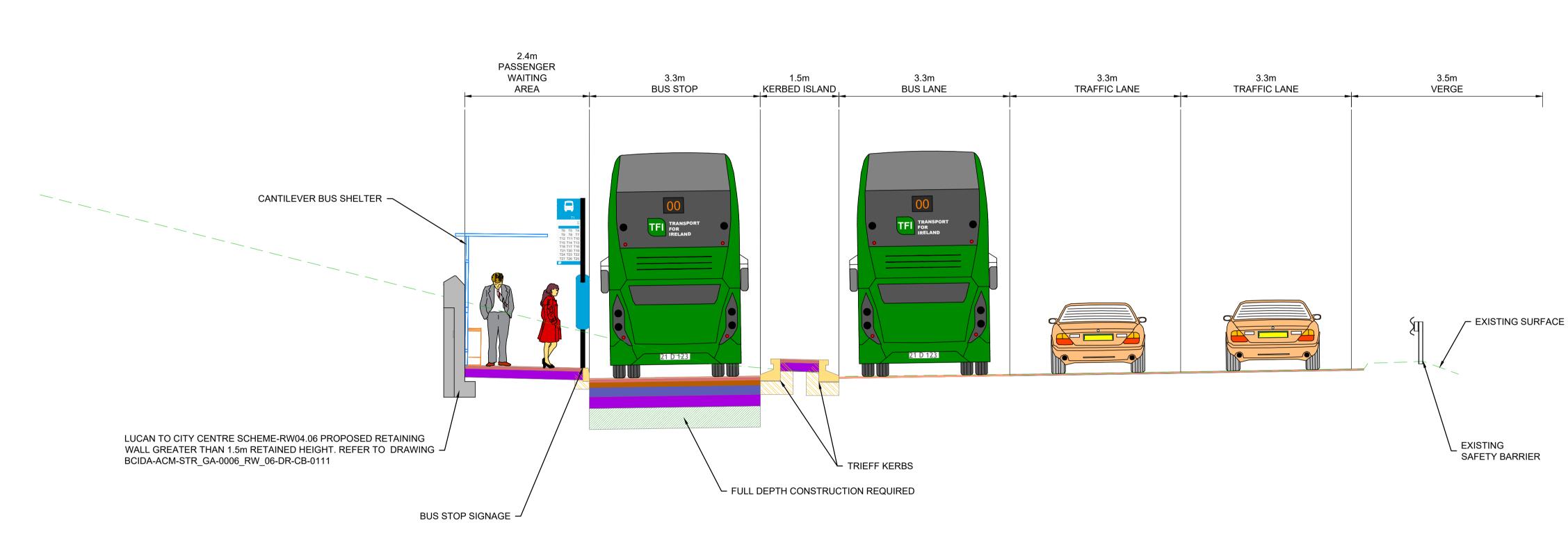
elevations are in metres and relate to OSi Geoid Model

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

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TYPICAL SECTION U-U R148 CHAPELIZOD BYPASS

LOCATED ON GA SHEET 20 DRAWING REF: BCIDA-ACM-GEO_GA-0006_XX_00-DR-CR-0020

	Rev	Date	Drn	Chk'd	App'd	Description	Client		Engineering D	esigner	
	M01	30/09/22	09/22 PN	AD	CA	ISSUE FOR PHASE 4: PLANNING		AECOM		N	
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ınd's							30/09/22	1:100 @ A3	P.K.NOKADA	A.T.DALE	
							Project Code	Originator Code	QMS Code		
							BCIDA ACM				

Programme Title **BUSCONNECTS DUBLIN** CORE BUS CORRIDORS INFRASTRUCTURE WORKS Μ Μ Drawing Title MOTT MACDONALD LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME TYPICAL CROSS SECTIONS Approved C.ACTON Drawing File NameSheet NumberStatusBCIDA-ACM-GEO_CS-0006_XX_00-DR-CR-002323 of 23A Rev M01