N4-N15 Sligo Urban Improvement Scheme **Environmental Assessment Report Volume 3**

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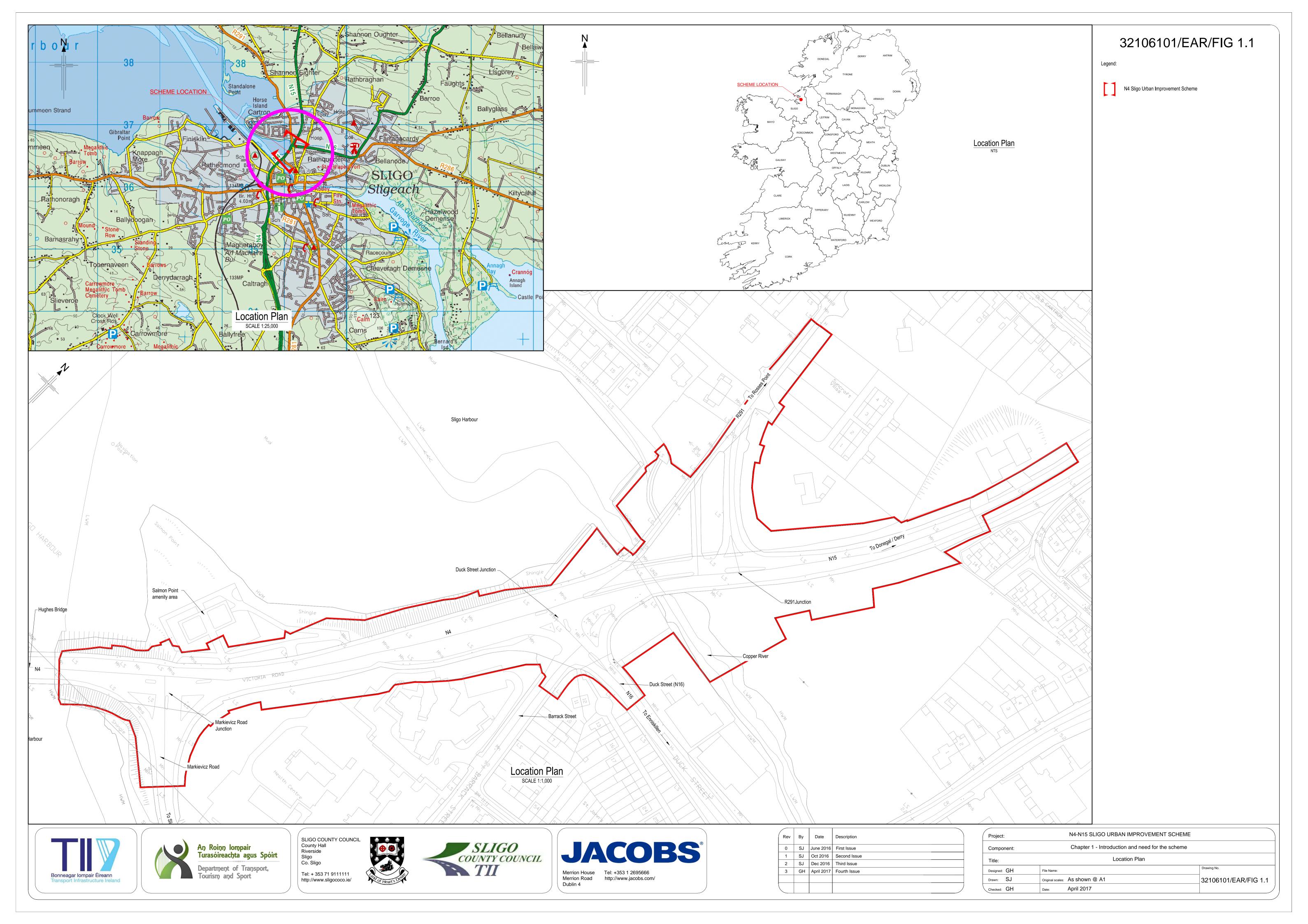
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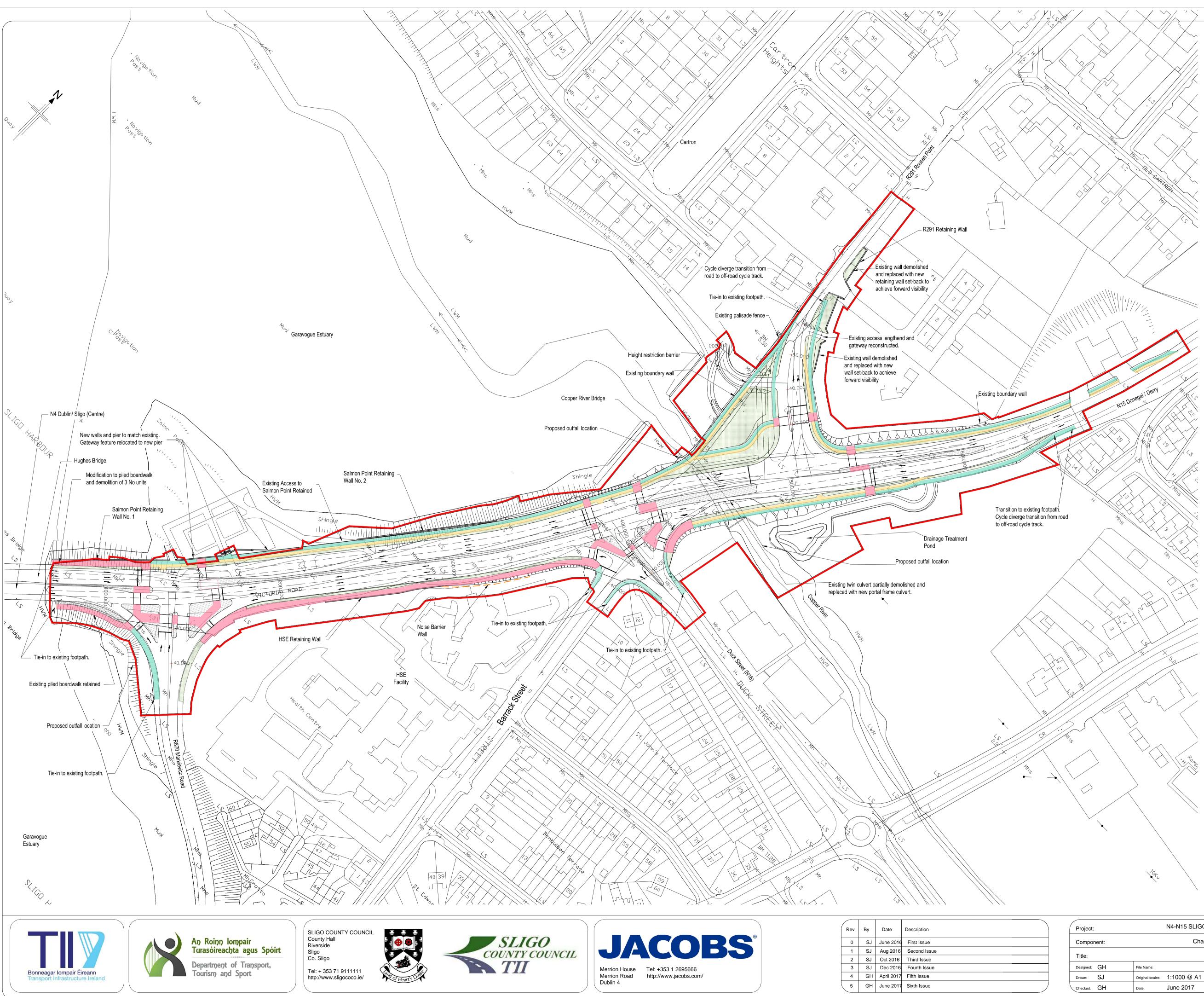
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Rev By	Date	Description		Project:	N4-N15 SLIGO URBAN IMPROVEMENT SCHEME	
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			_	Title:	Environmental Assessment Report Volume 3	
				Designed:	File Name:	Drawing No.
				Drawn:	Original scales:	
)	Checked:	Date:	





32106101/EAR/FIG 2.1	
.egend	
Off Road Cycle Track	

Footpath

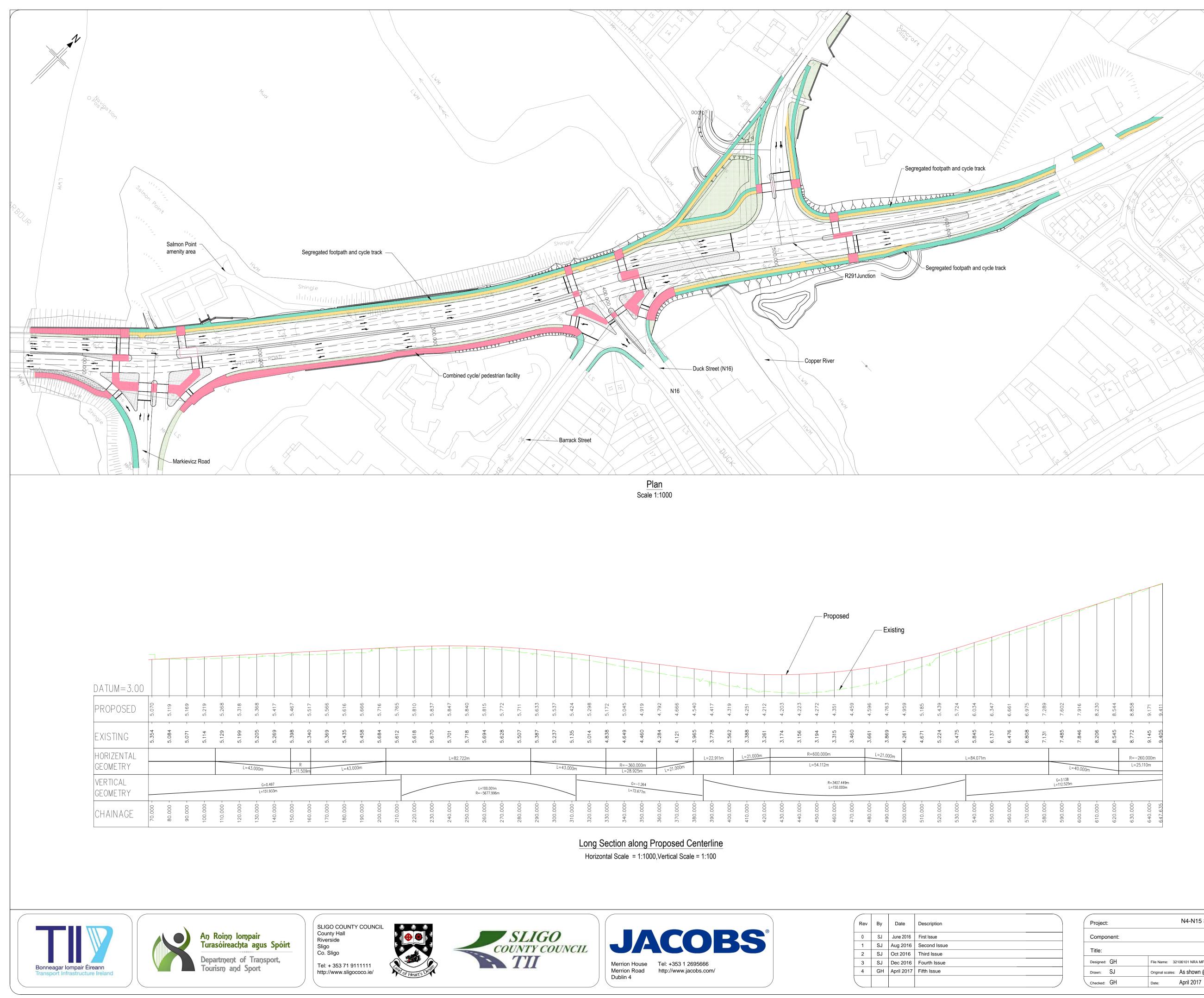
Combined Footway/ Cyclepath

Grassed Verge

Pedestrian Deterrent Pavement

Traffic Island

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Component: Chapter 2 - Scheme Description										
Title:	Title: Scheme Plan									
Designed:	GH	File Name:		Drawing No.						
Drawn:	SJ	Original scales:	1:1000 @ A1	32106101/EAR/FIG 2.1						
Checked:	GH	Date:	June 2017							



Legend

Drawing Number

Off Road Cycle Track

Footpath

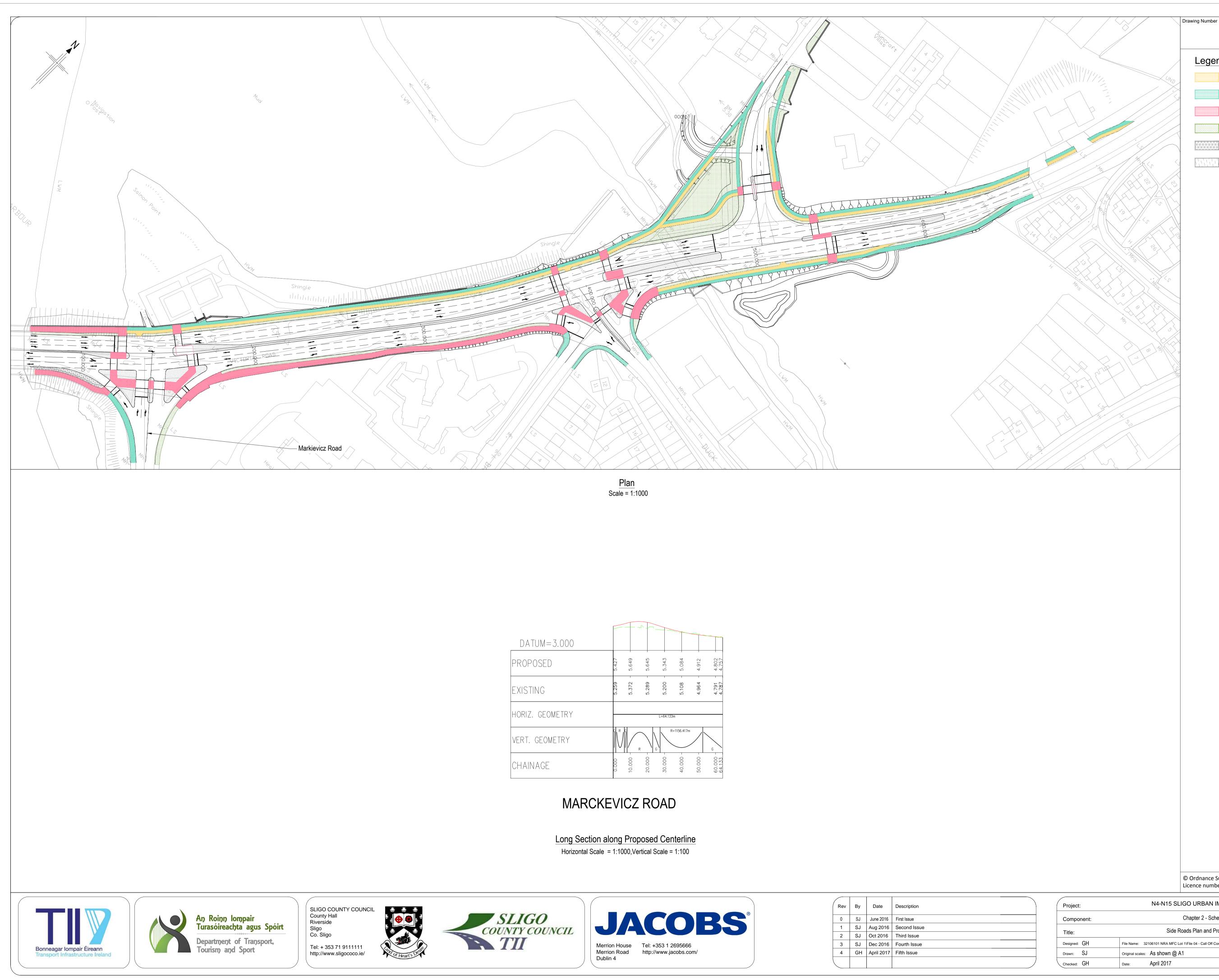
Combined Footway/ Cyclepath

Grassed Verge

Pedestrian Deterrent Pavement

Traffic Island

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Title:	tle: N4-N15 Plan and Profile								
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Drawn: SJ	Original scales: As shown @ A1	32106101/EAR/FIG 2.2							
Checked: GH	Date: April 2017								



32106101/	/EAR/FIG	2.3
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Legend

Off Road Cycle Track

Footpath

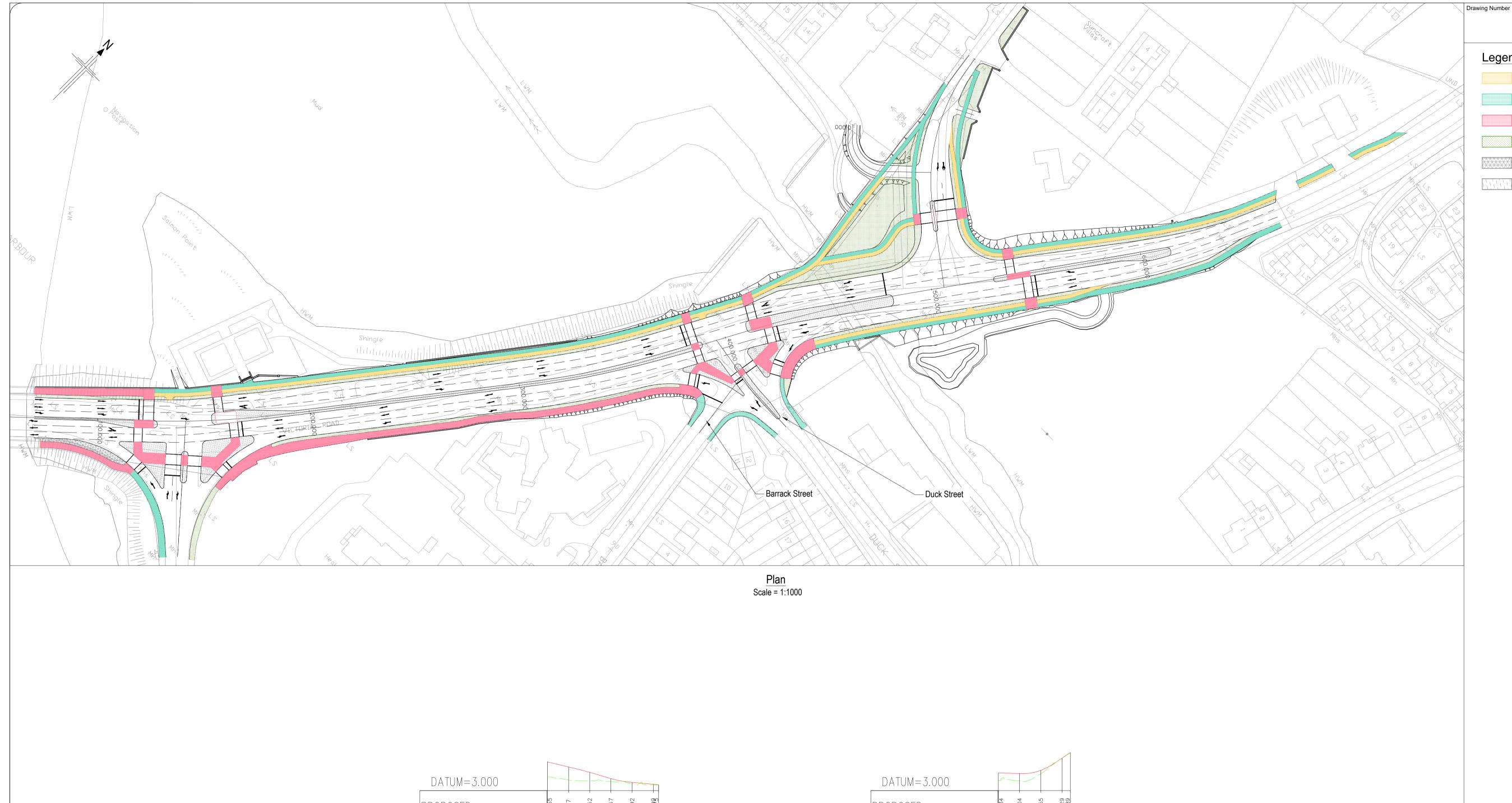
Combined Footway/ Cyclepath

Grassed Verge

Pedestrian Deterrent Pavement

Traffic Island

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Designed: GH	File Name: 32106101 NRA MFC Lot 1\File 04 - Call Off Contracts\File 04.14 N4 Sligo	Drawing No.					
Drawn: SJ	Original scales: As shown @ A1	32106101/EAR/FIG 2.3					
Checked: GH	Date: April 2017						



DATUM=3.000	
PROPOSED	re\highways\32103500 NRA ۸ - 12322 1332 - 23328 102500 NRA ۸ - 112
EXISTING	3.665 3.504 - 3.431 - 3.331 -
HORIZ. GEOMETRY	L=24.291m L=18.951m
VERT. GEOMETRY	G R G G=-0.5
CHAINAGE	0.000 10.000 30.000 40.000

DUCK STREET



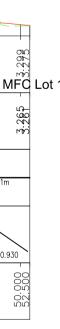


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NFC Lot 1\File 04 - Call Off Contracts\F

DATUM=3.000	~ -				
PROPOSED	3.834	3.804	ע ער ער))))	4.529 4.789
EXISTING	3.467	3.453	ح 701 -		4.536 4.799
HORIZ. GEOMETRY		R	=1376.057 L=33.920r	7 <u>m</u> n	
VERT. GEOMETRY	L=11.0 G=-0	062n 0.302	R=219.74 L=15.25	45m 6m	6=6.641 =7.601m
CHAINAGE	0.000	10.000		0000	30.000 - 33.920 -

BARRACK STREET

Long Section along Proposed Centerline Horizontal Scale = 1:1000,Vertical Scale = 1:100

32106101/EAR/FIG 2.4

Legend

Off Road Cycle Track

Footpath

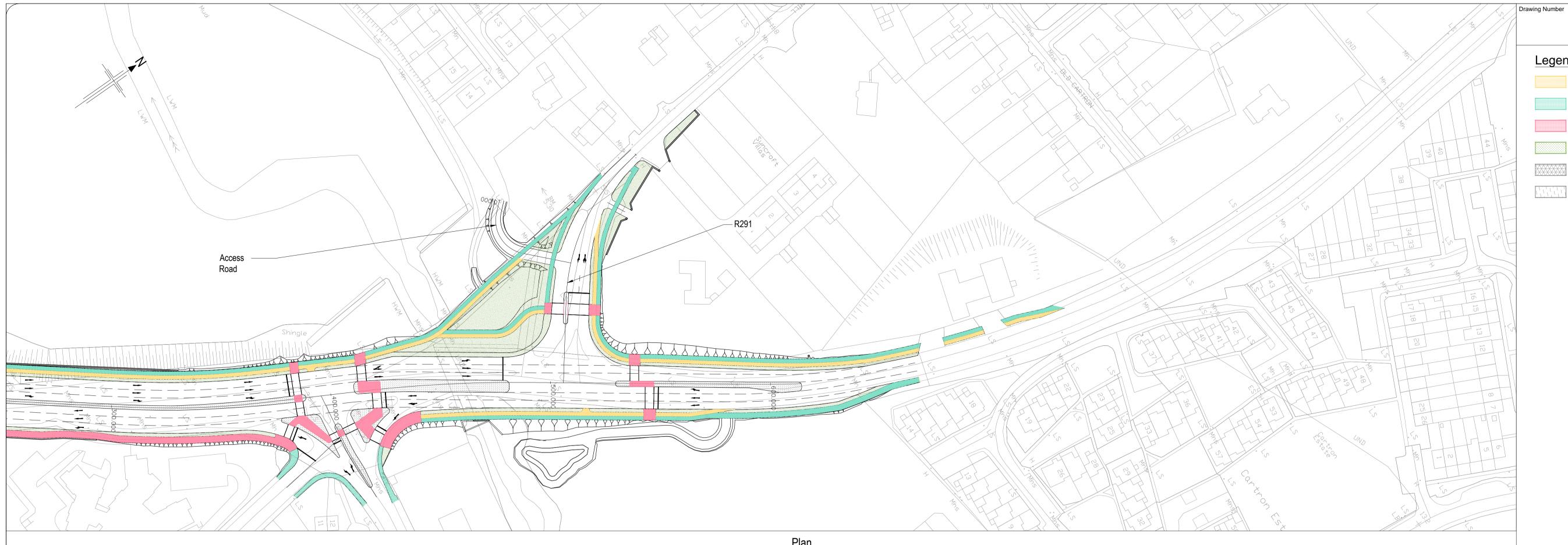
Combined Footway/ Cyclepath

Grassed Verge

Pedestrian Deterrent Pavement

Traffic Island

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Component:	Chapter 2 - Scheme Description							
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Drawn: SJ	Original scales: As shown @ A1	32106101/EAR/FIG 2.4						
Checked: GH	Date: April 2017							



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EXISTING	7.022	6.472 - (5.826	5.318	5.148	4.863 -	4.636	4.436	4.435 -
HORIZ. GEOMETRY	L				R=-90.000	Om			
VERT. GEOMETRY	L=G	17.233m =-5.494		L=30.000	Dm	L 	202	L=30	1.000m
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R291





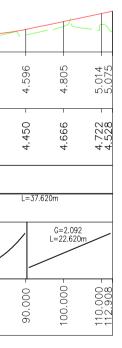
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Plan Scale = 1:1000



DATUM=3.000	A			¥	1.1	
PROPOSED	4.359	3.830 -	3.691	3.959 -	4.298 -	4.590 4.660
EXISTING	4.481	3.786 -	3.662	3.659 -	3.790 -	4.768 4.792
HORIZ. GEOMETRY	L	R=	-15.200m		L=22.352	m
VERT. GEOMETRY	L G	L=21.	034m	GL	L=15.00	Om G
CHAINAGE	0.000	10.000 -	20.000 -	30.000 -	40.000 -	50.000

ACCESS ROAD

Long Section along Proposed Centerline Horizontal Scale = 1:1000,Vertical Scale = 1:100

	Rev	Ву	Date	Description
IGO Y COUNCIL JACOBS	0	SJ	June 2016	First Issue
Y COUNCIL	1	SJ	Aug 2016	Second Issue
I COUNCIL	2	SJ	Oct 2016	Third Issue
Merrion House Tel: +353 1 2695666	3	SJ	Dec 2016	Fourth Issue
Merrion Road http://www.jacobs.com/	4	GH	April 2017	Fifth Issue
Dublin 4				



Legend

Off Road Cycle Track

Footpath

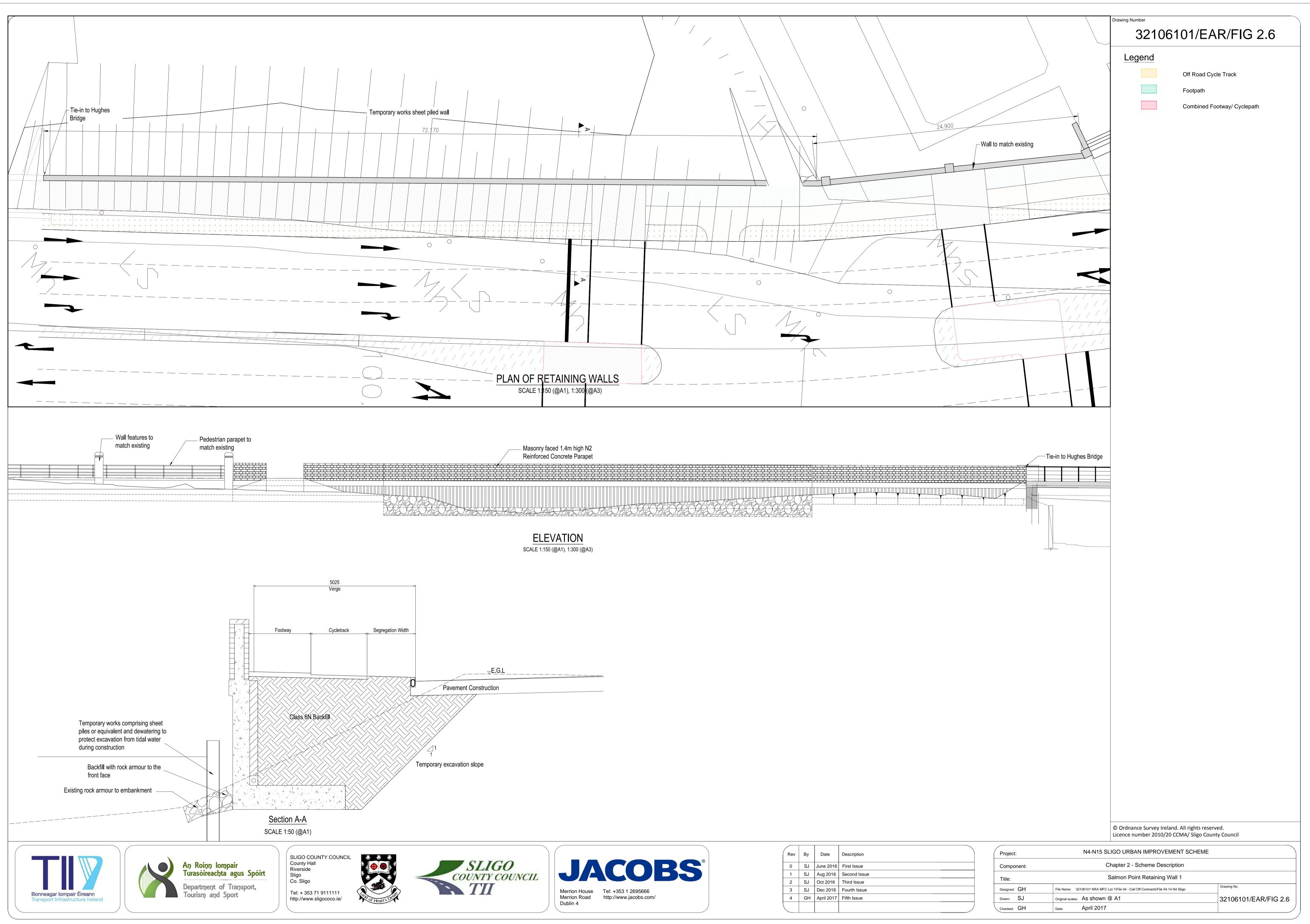
Combined Footway/ Cyclepath

Grassed Verge

Pedestrian Deterrent Pavement

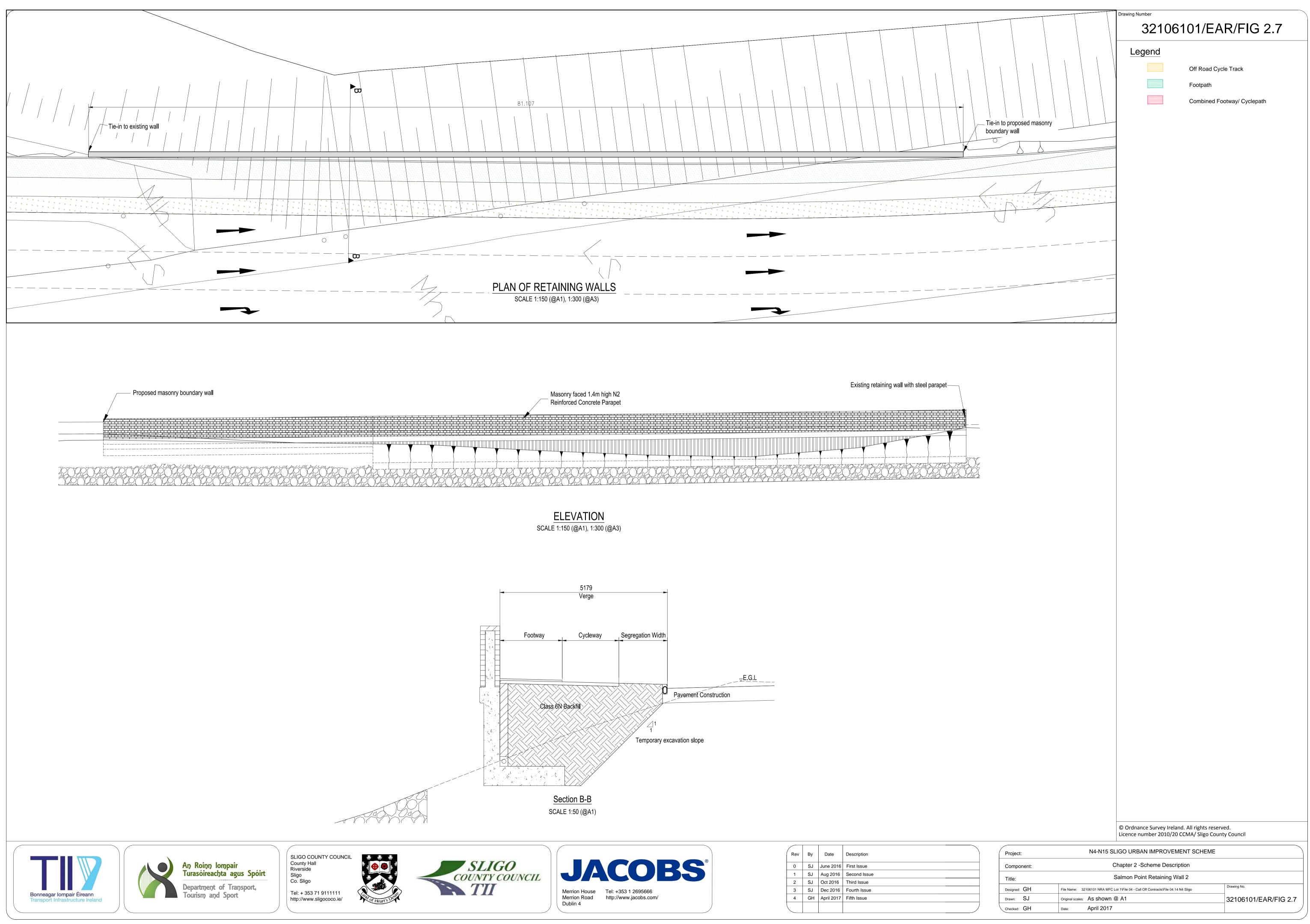
Traffic Island

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Component:	Chapter 2 - Scheme Design	
Title:	Side Road Plan and Profile - R291	
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Checked: GH	Date: April 2017	

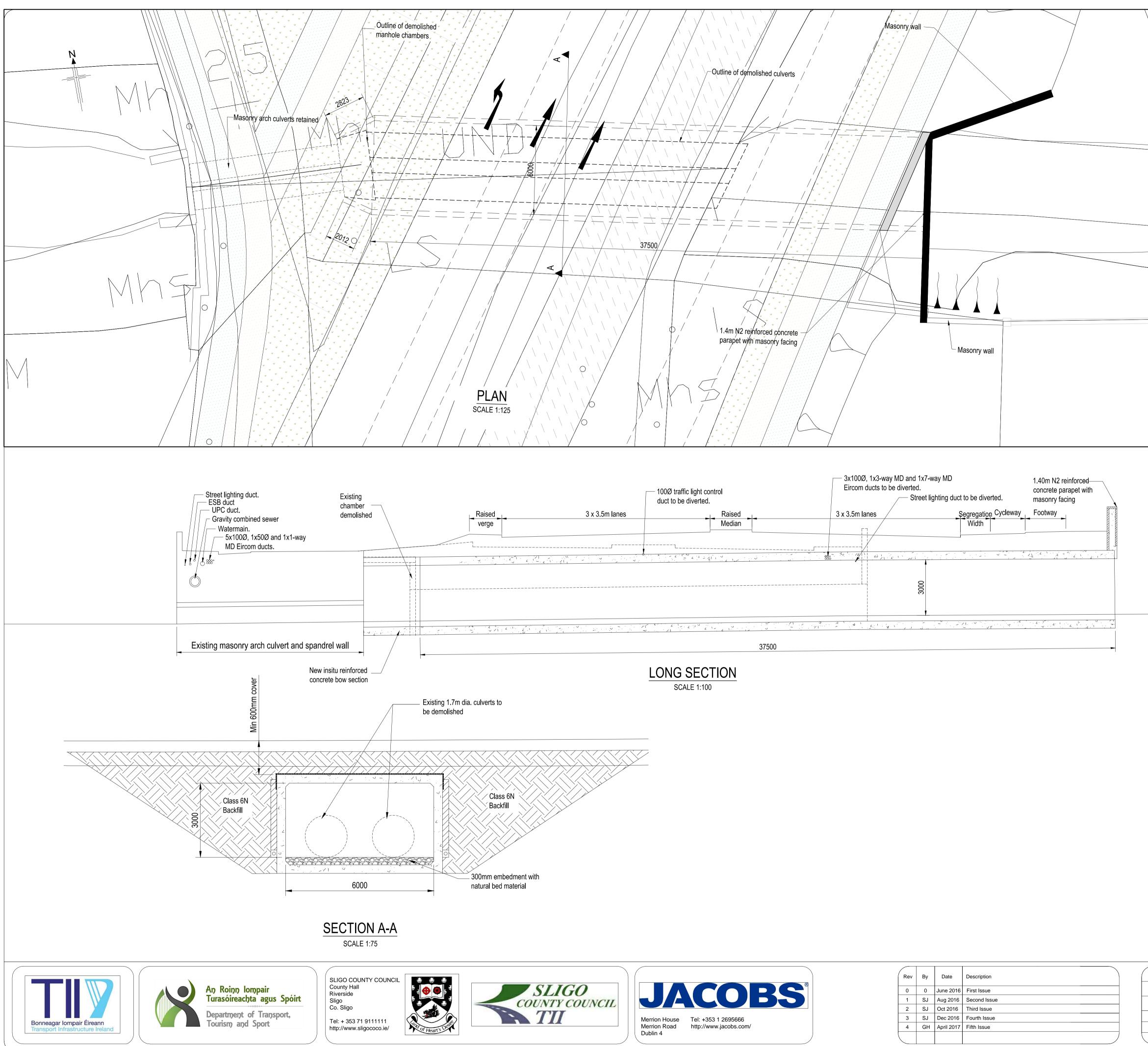


Rev	Ву	Date	Description
0	SJ	June 2016	First Issue
1	SJ	Aug 2016	Second Issue
2	SJ	Oct 2016	Third Issue
3	SJ	Dec 2016	Fourth Issue
4	GH	April 2017	Fifth Issue

Component:	Chapter 2 - Scheme Description	
Title:	Salmon Point Retaining Wall 1	
Designed: GH	File Name: 32106101 NRA MFC Lot 1\File 04 - Call Off Contracts\File 04.14 N4 Sligo	Drawing No.
Drawn: SJ	Original scales: As shown @ A1	32106101/EAR/FIG 2.6
Checked: GH	Date: April 2017	



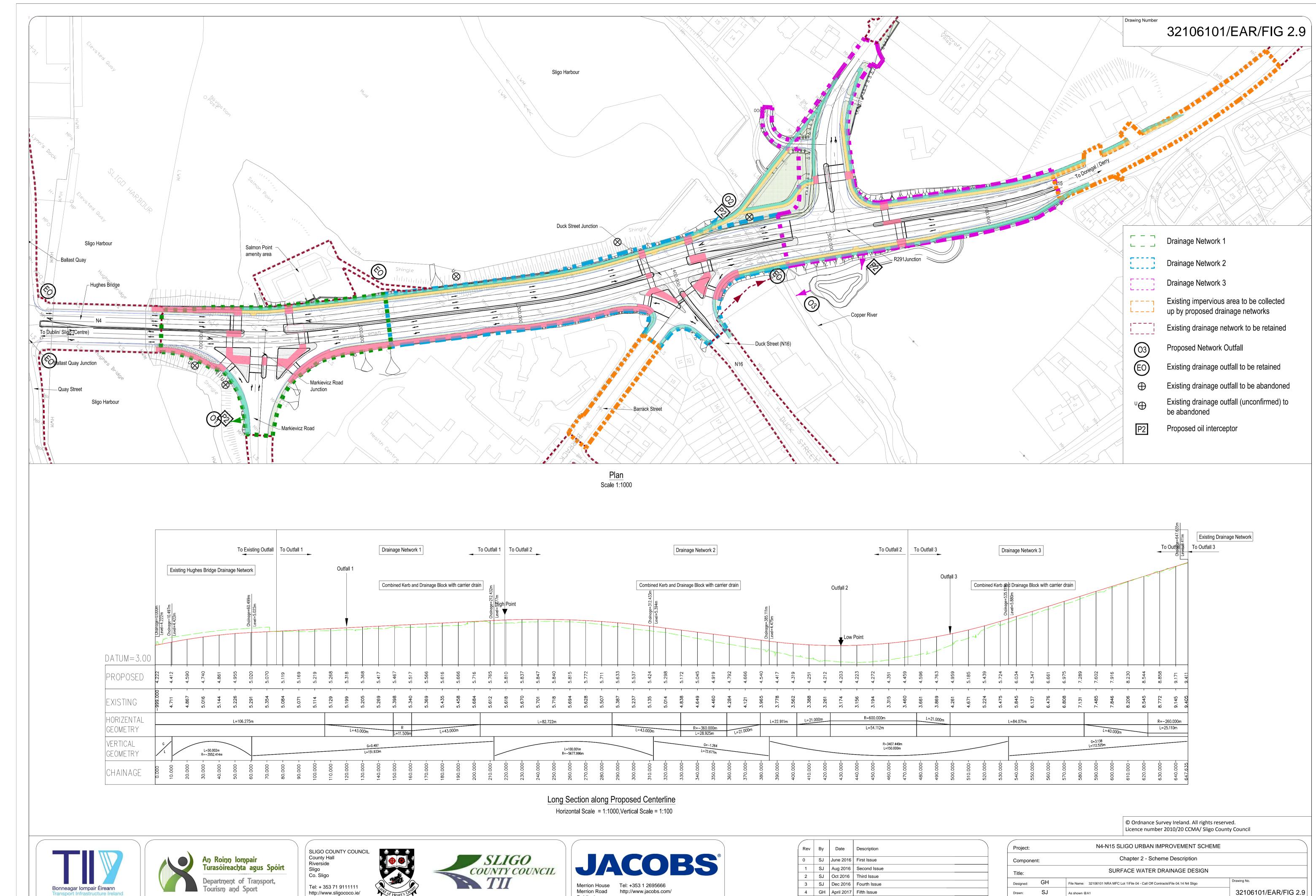
		Rev	Ву	Date	Description	Project:	N4-N15 SLIGO URBAN IMPROVEMENT SCHEME	
IGO		0	SJ	June 2016	5 First Issue	Component:	Chapter 2 -Scheme Description	
Y COUNCIL		1	SJ	Aug 2016	Second Issue	THE	Salmon Point Retaining Wall 2	
I COUNCIL		2	SJ	Oct 2016	Third Issue	Title:		
	Merrion House Tel: +353 1 2695666	3	SJ	Dec 2016	Fourth Issue	Designed: GH	File Name: 32106101 NRA MFC Lot 1\File 04 - Call Off Contracts\File 04.14 N4 Sligo	Drawing No.
	Merrion Road http://www.jacobs.com/	4	GH	April 2017	7 Fifth Issue	Drawn: SJ	Original scales: As shown @ A1	32106101/EAR/FIG 2.7
	Dublin 4					Checked: GH	Date: April 2017	



Rev	Ву	Date	Description
0	0	June 2016	First Issue
1	SJ	Aug 2016	Second Issue
2	SJ	Oct 2016	Third Issue
3	SJ	Dec 2016	Fourth Issue
4	GH	April 2017	Fifth Issue

	Drawing Number 32106101/EAR/FIG 2.8
	Legend Off Road Cycle Track Footpath Combined Footway/ Cyclepath
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Project: N4-N15 SLI	Licence number 2010/20 CCMA/ Sligo County Council GO URBAN IMPROVEMENT SCHEME hapter 2 - Scheme Description

Compo	nent:	Chapter 2 - Scheme Description	
Title:		Copper River Culvert General Arrangement	
Designed:	GH	File Name: 32106101 NRA MFC Lot 1\File 04 - Call Off Contracts\File 04.14 N4 Sligo	Drawing No.
Drawn:	SJ	Original scales: As shown @ A1	32106101/EAR/FIG 2.8
Checked:	GH	Date: April 2017	



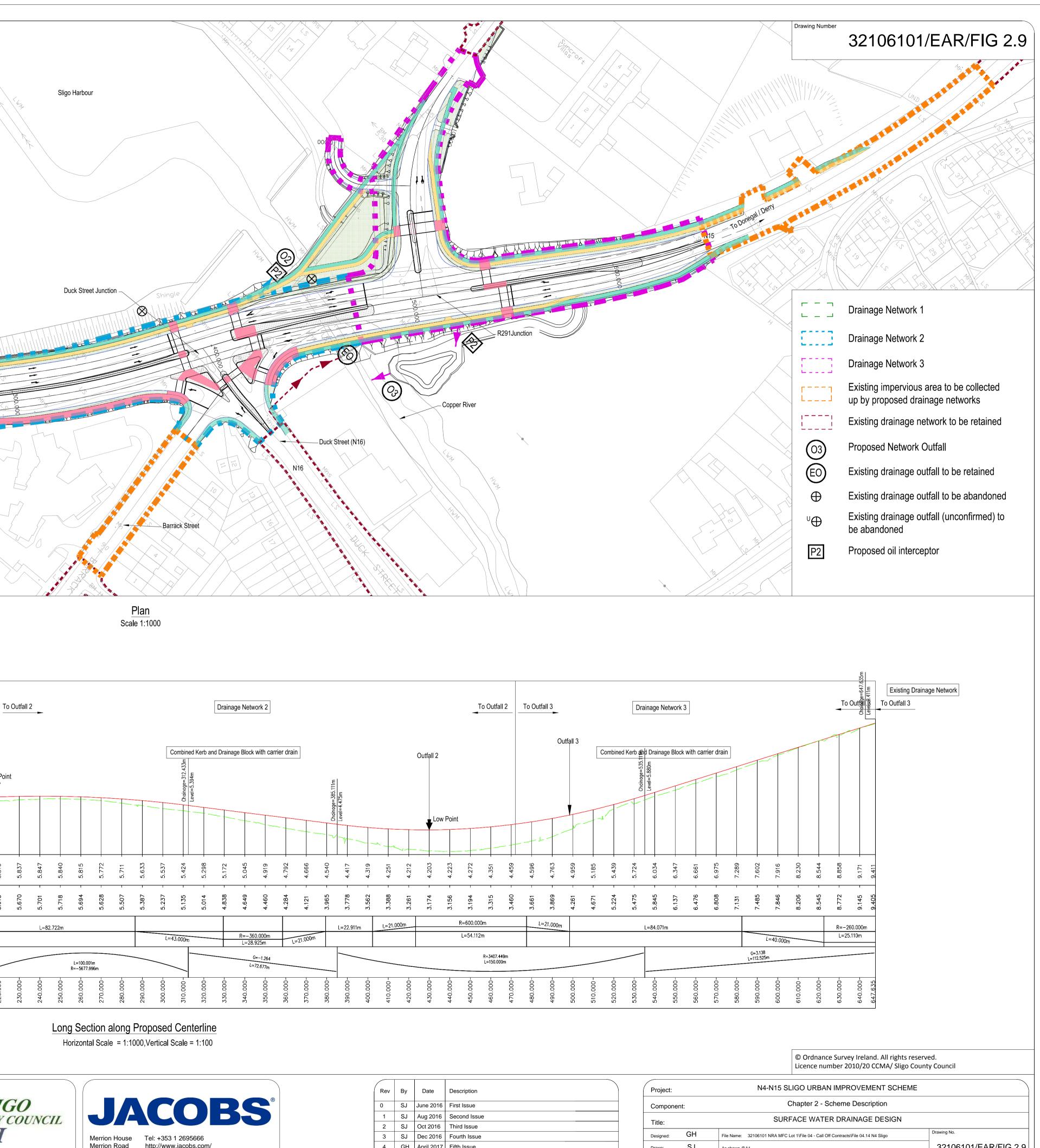
		Existi	ing Hug	jhes Brid	dge Drai		o Existing	g Outfall	To O	utfall 1	-	(Outfall 1		D	Prainage I	Network	1			To	o Outfall	1_
	Chainage=U.UUUm Level=4.222m	Chamage=10.49/m Level=4.422m					Chainage=60.499m Level=5.022m								C	combined I	Kerb and	d Drainaç	ge Block v	with carr	ier drain	321	igh P
DATUM=3.00																							
PROPOSED	4.222	4.412	4.590	4.740	4.861	4.955	5.020	5.070	5.119	5.169	5.219	5.268	5.318	5.368	5.417	5.467	5.517	5.566	5.616	5.666	5.716	5.765	5.810
EXISTING	000.666-	4.711 -	4.867 -	5.016 -	5.144 -	5.226 -	5.291 -	5.354 -	5.084 -	5.071 -	5.114 -	5.129 -	5.199 -	5.205 -	5.269 -	5.398	5.340 -	5.369 -	5.435 -	5.458 -	5.684 -	5.612 -	5.618 -
HORIZENTAL GEOMETRY						L=10)6.275m						L=	43.000m		F F			L=43.	000m			
VERTICAL GEOMETRY	GL			L=50 R=-35	0.002m 552.414m									G=I).497 1.933m	<u> </u>							_
CHAINAGE	0.000	10.000	20.000 -	30.000 -	40.000 -	50.000 -	<u>-</u> 000.09	70.000 -	80.000 -	- 000.06	100.000 -	110.000 -	120.000 -	130.000 -	140.000 -	150.000-	160.000 -	170.000-	180.000 -	190.000 -	200.000-	210.000	220.000-







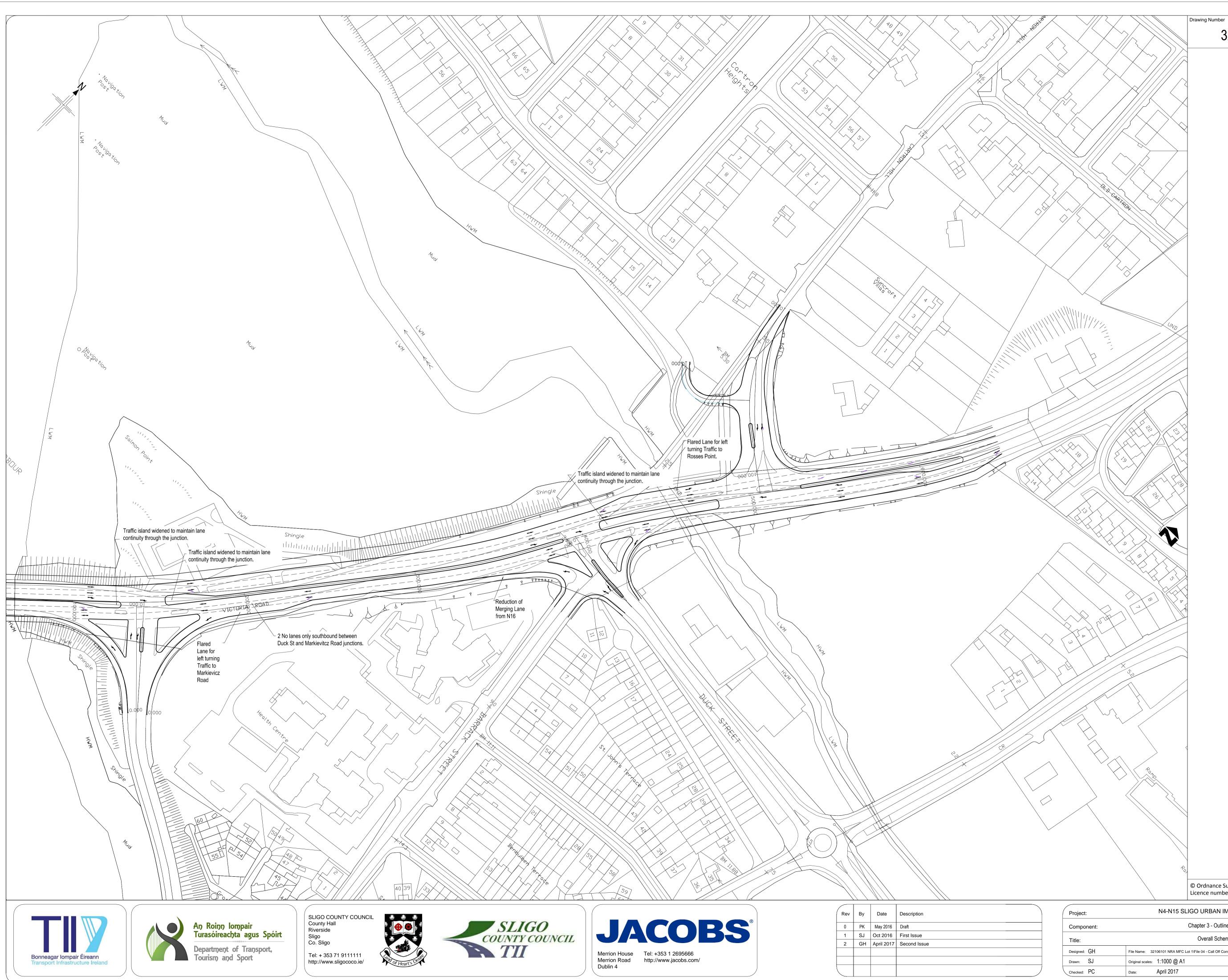




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0	SJ	June 2016	First Issue	Comp
1	SJ	Aug 2016	Second Issue	
2	SJ	Oct 2016	Third Issue	Title:
3	SJ	Dec 2016	Fourth Issue	Designed
4	GH	April 2017	Fifth Issue	Drawn:
				Checked

GH

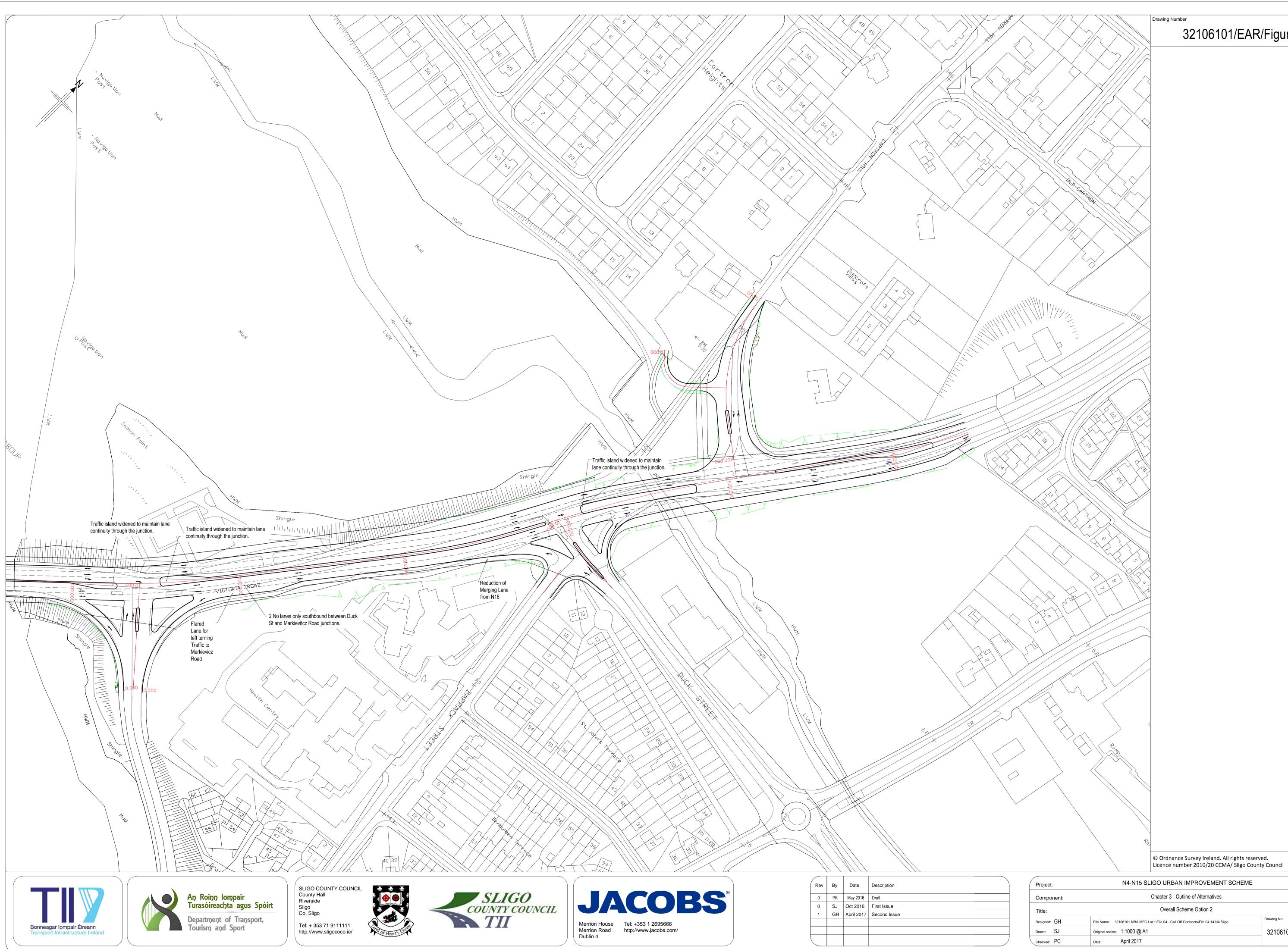
Date: April 2017



32106101/EAR/Figure 3.1

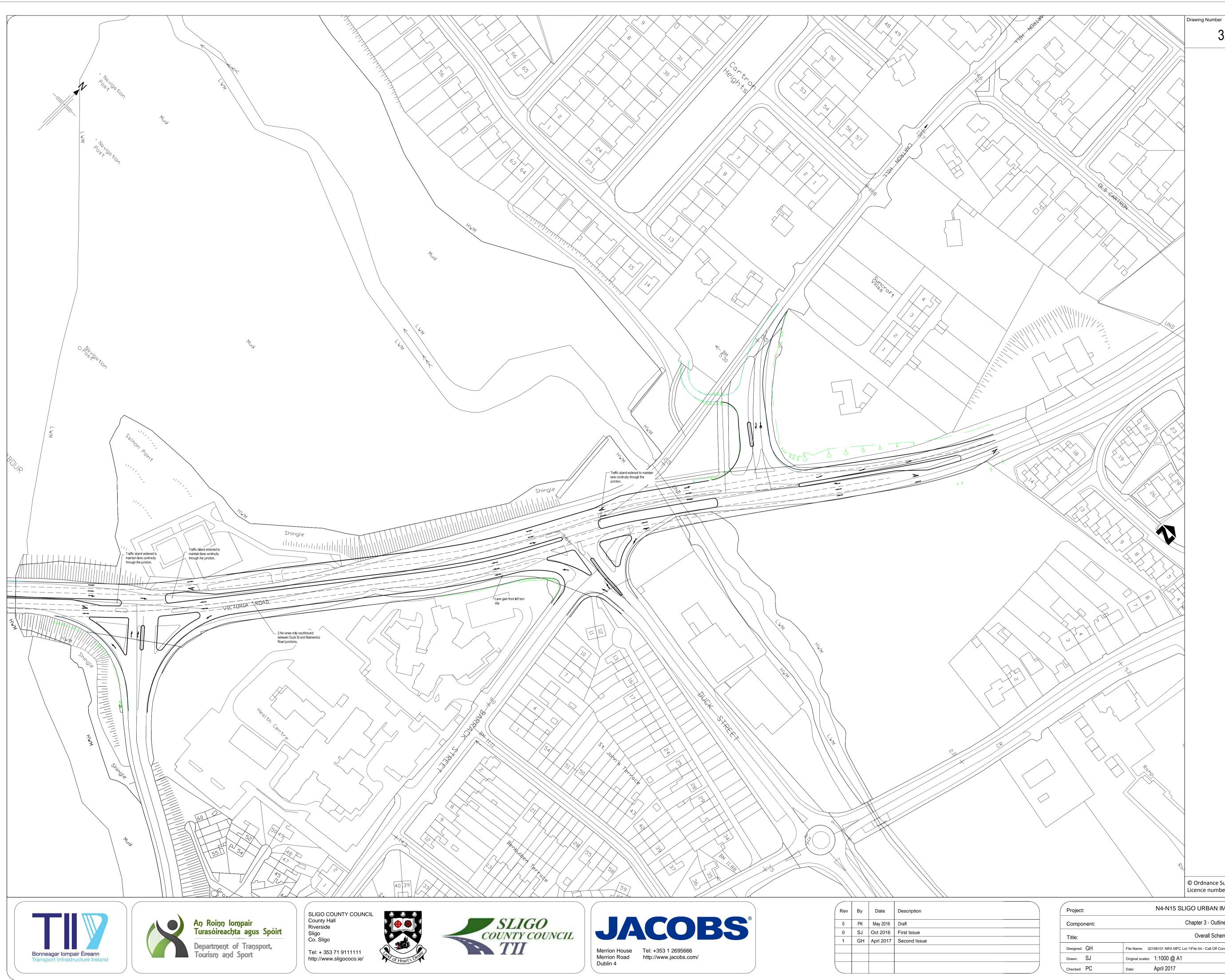
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Project:	N4-N15 SLIGO URBAN IMPROVEMENT SCHEM	1E
Component:	Chapter 3 - Outline of Alternatives	
Title:	Overall Scheme Option 1	
Designed: GH	File Name: 32106101 NRA MFC Lot 1\File 04 - Call Off Contracts\File 04.14 N4 Sligo	Drawing No.
Drawn: SJ	Original scales: 1:1000 @ A1	32106101/EAR/Figure 3.1
Checked: PC	Date: April 2017	
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32106101/EAR/Figure	3	2
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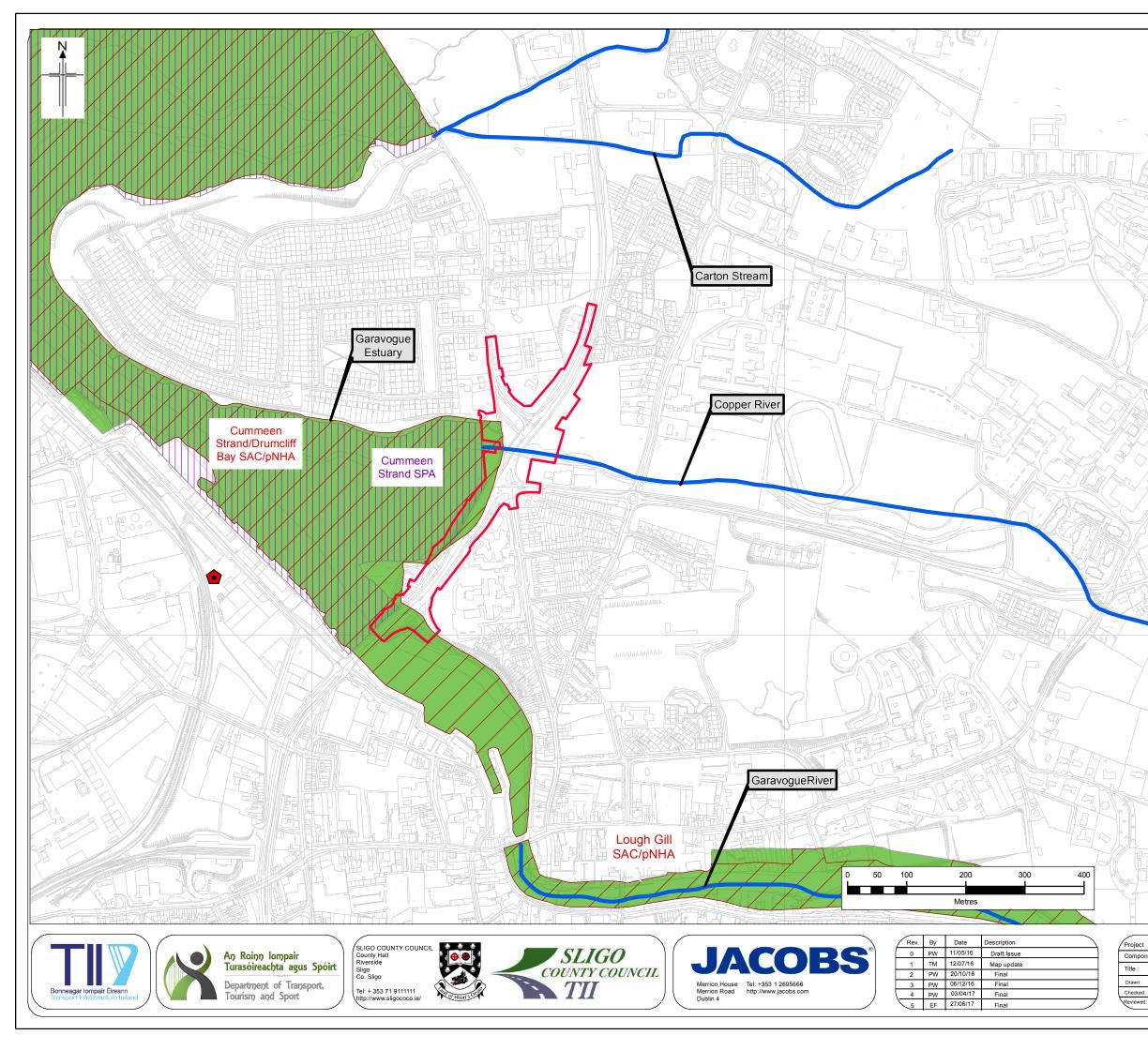
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Component:	Chapter 3 - Outline of Alternatives	
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Checked: PC	Date: April 2017	



32106101/EAR/Figure 3.3

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Project:	N4-N15 SLIGO URBAN IMPROVEMENT SCHEN	ЛЕ
Component:	Chapter 3 - Outline of Alternatives	
Title:	Overall Scheme Option 3	
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Drawn: SJ	Original scales: 1:1000 @ A1	32106101/EAR/Figure 3.3
Checked: PC	Date: April 2017	



Legend :



Proposed Development Boundary



Proposed Construction Compound

Water Features

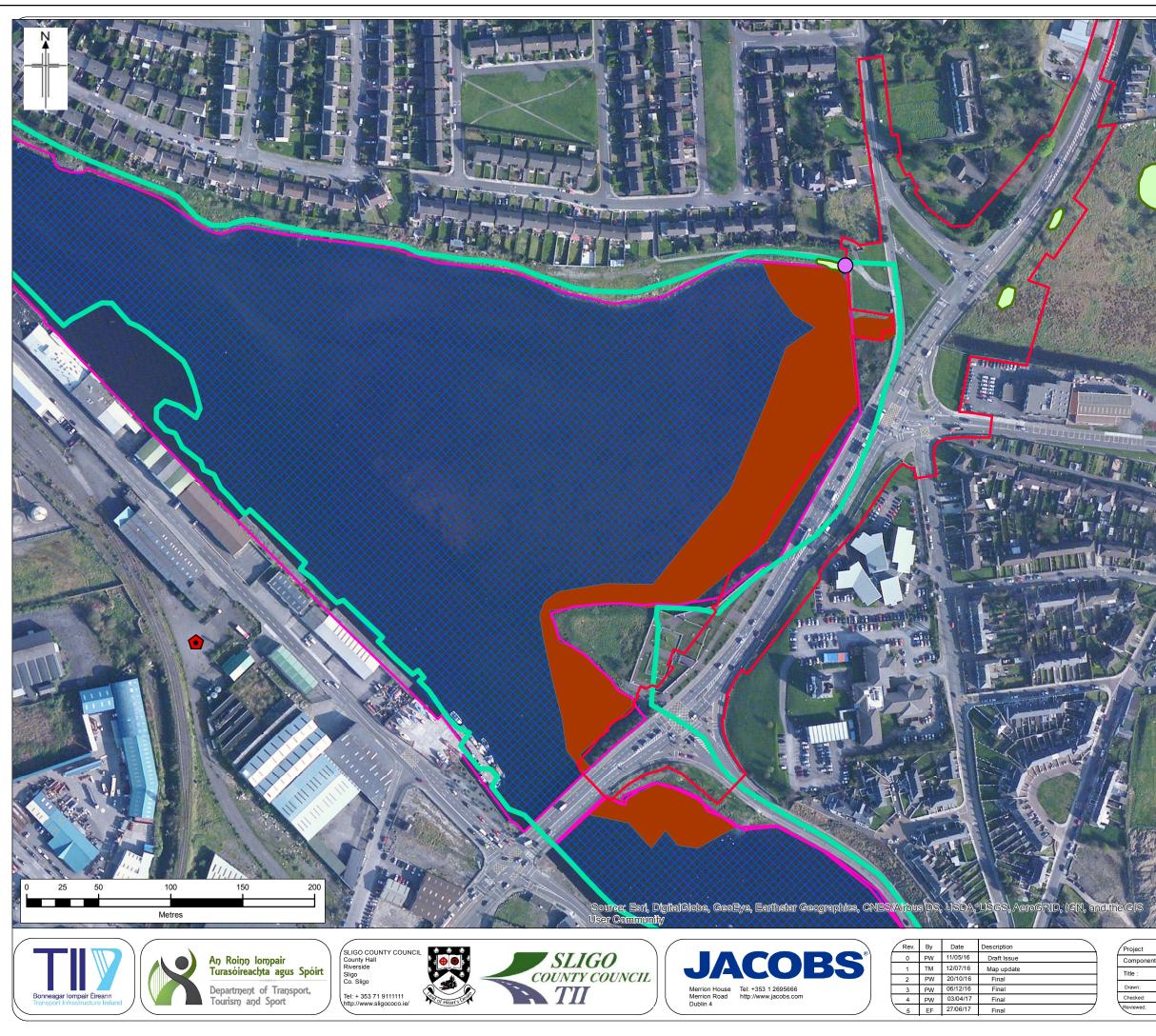


Special Area of Conservation (SAC)

Special Protection Area (SPA)

proposed Natural Heritage Area (pNHA)

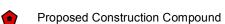
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	N4-N15 SLIGO URBAN IMPROVEMENT S	СНЕМЕ
nent	Chapter 5 Flora and Fauna	
	Designated Sites Map	
EF	File Name: 32106101EAR Figure5.1 Designated Sites	Drawing No.
CC	Original Scale: 1:3,000 @A1 1:6,000 @ A3	32106101/EAR/ Figure 5.1
: RF	Date: 27/06/2017	



Legend :



Proposed Development Boundary



Mixed Sediment Shore (Not QI 'mudflats and sandflat' habitat as per Consevation Objective Mapping)



Invasive Bluebell



Invasive Japanese Knotweed

0 01 1054



Cummeen Strand SPA

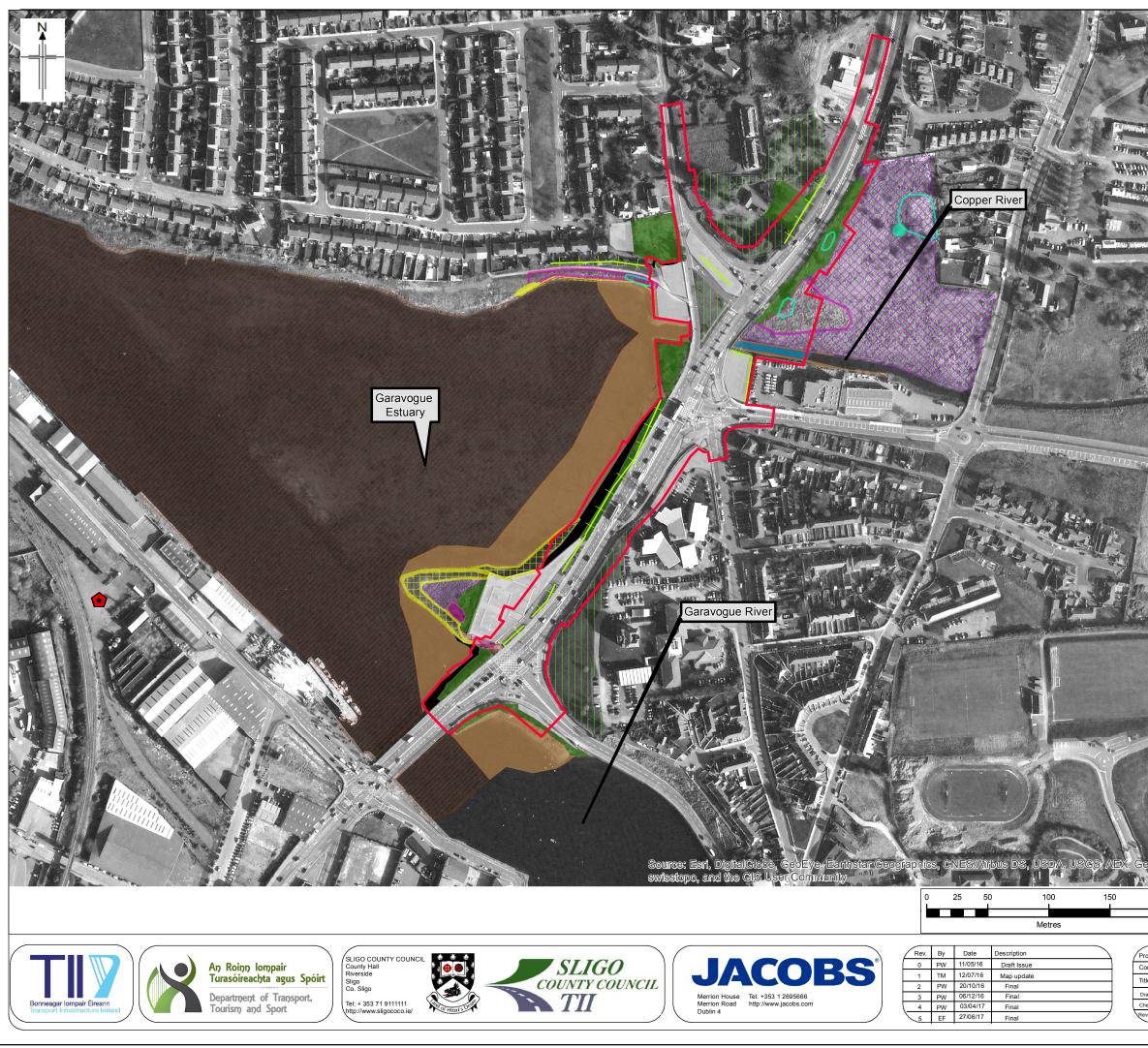


Cummeen Strand/Drumcliff Bay

QI Estuary Habitat Mudflat and Sandflat Habitat (Cummen Strand/Drumcliff)

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Project	Project N4-N15 SLIGO URBAN IMPROVEMENT SCHEME		
Component	Ch	napter 5 Flora and Fauna	
Title :		Habitat Map	
Drawn: E	F	File Name: 32106101 EAR Figure 5.2	Drawing No.
Checked: C	С	Original Scale: 1:1,500 @A1 1:2,500 @A3	32106101/EAR/ Figure 5.2
Reviewed: R	F	Date: 27/06/2017	



Legend :

Proposed Development Boundary



Proposed Construction Compound



WL2 Treeline

BL1 Stone Walls and Other Stonework



CC1 Coastal Construction



Invasive Japanese Knotweed



CM1 Lower Salt Marsh

MW4 Estuaries / LS4 Muddy Shores



CM2 Upper Salt Marsh

LS5 Mixed sediment /LR3 Sheltered rocky shores

CW2 Tidal River



GA2 Amenity Grassland Improved



GS2 Dry Meadows and Grassy Verges



GS4 Wet Grassland

WD5 Scattered Trees and Parkland



WS1 Scrub



ED3 Recolonising Bare Ground

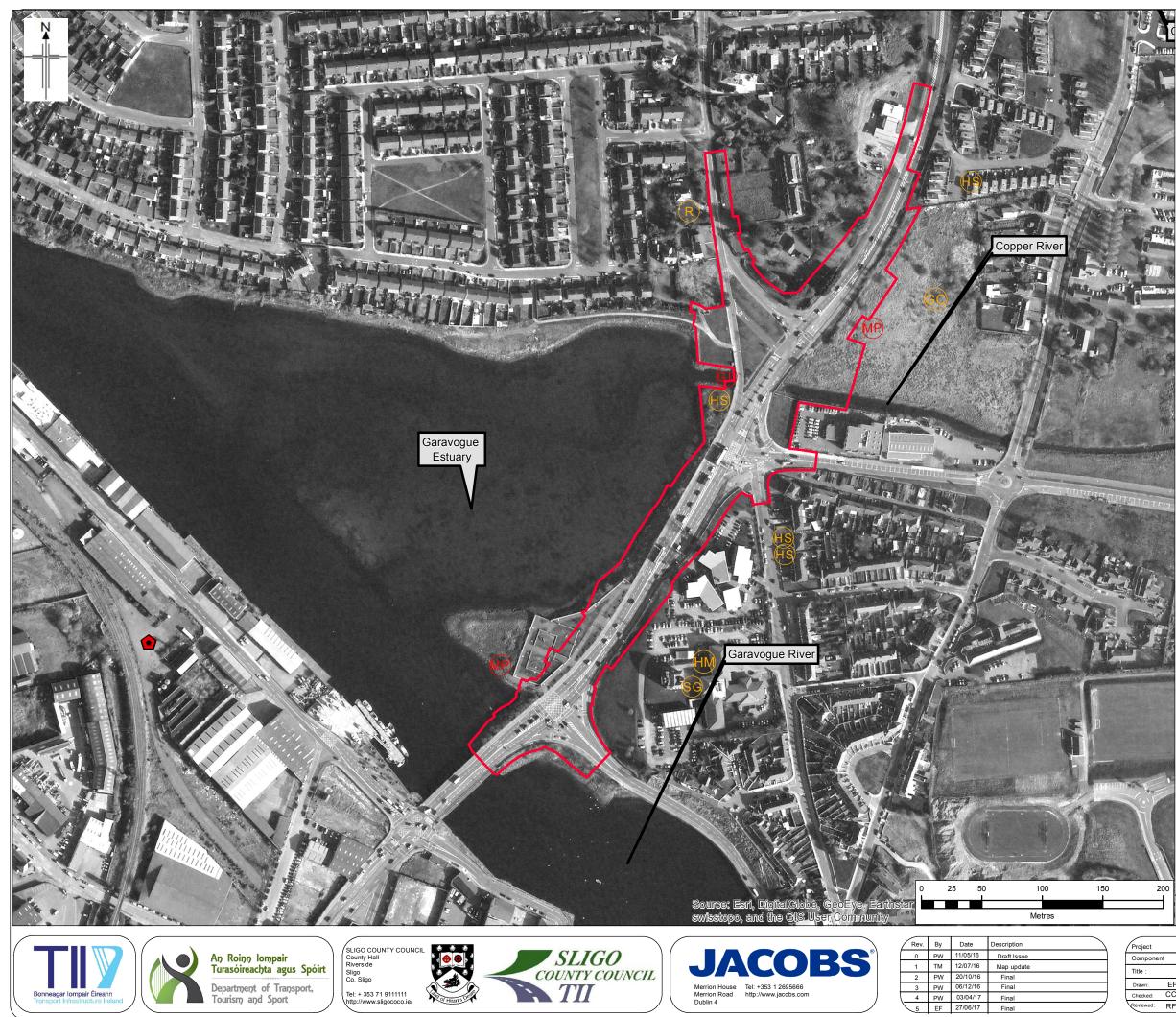


Rare Wild Leek Plants

Endangered velvet feather-moss



Project	N4-N15 SLIGO URBAN IMPROVEMENT	SCHEME
Component	Chapter 5 Flora and Fauna	
Title :	Habitat Map	
Drawn: EF	File Name: 32106101 EAR Figure 5.3 Habitat Update	Drawing No.
Checked: CC	Original Scale: 1:1,500 @A1 1:3,000 @A3	32106101/EAR/ Figure 5.3
Reviewed: RF	Date: 27/06/2017	



Legend :

Proposed Development Boundary



Proposed Construction Compound

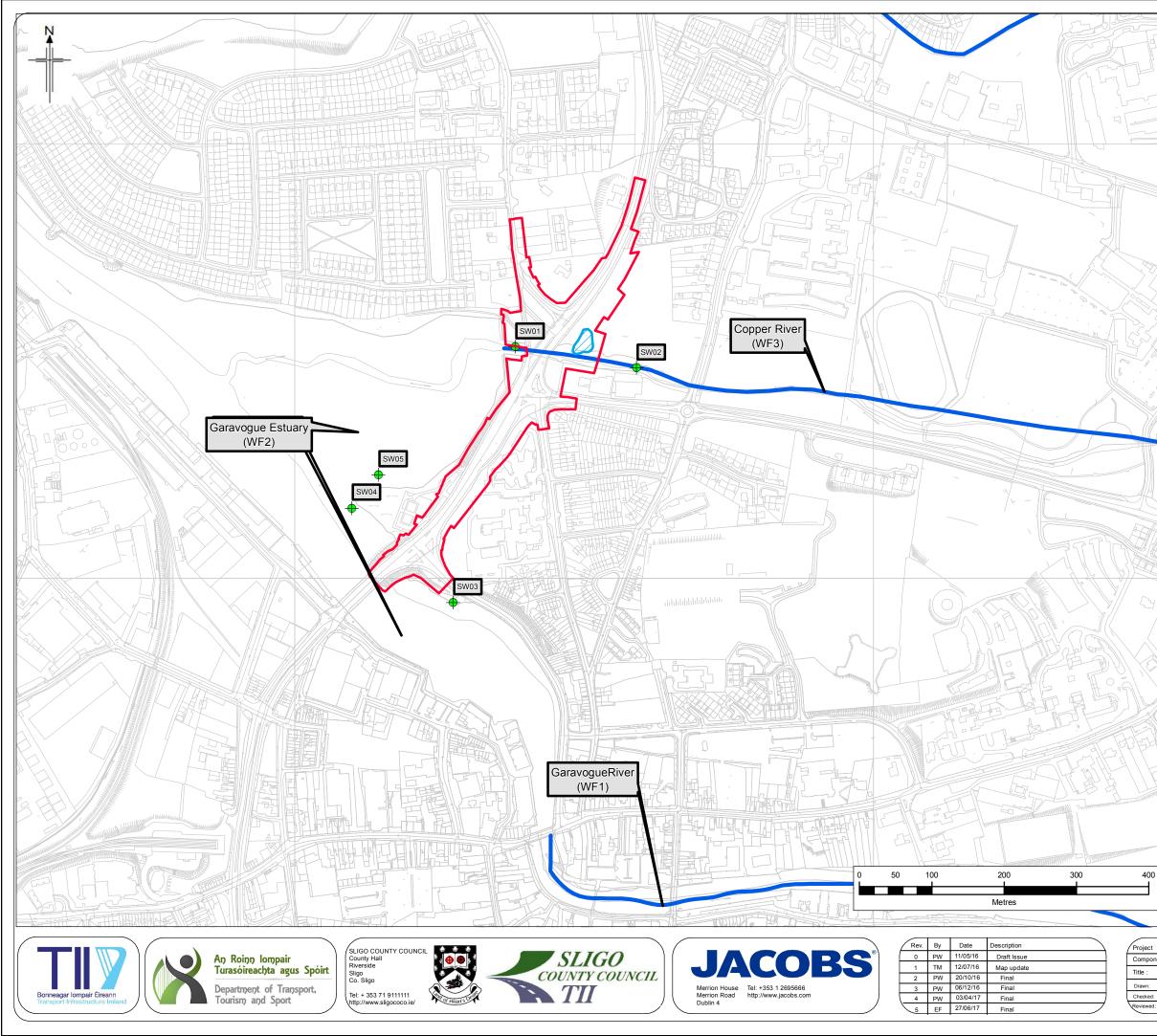


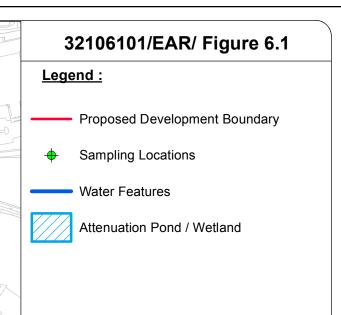
Amber List Species (medium conservation concern).



Red List Species (high conservation concern).

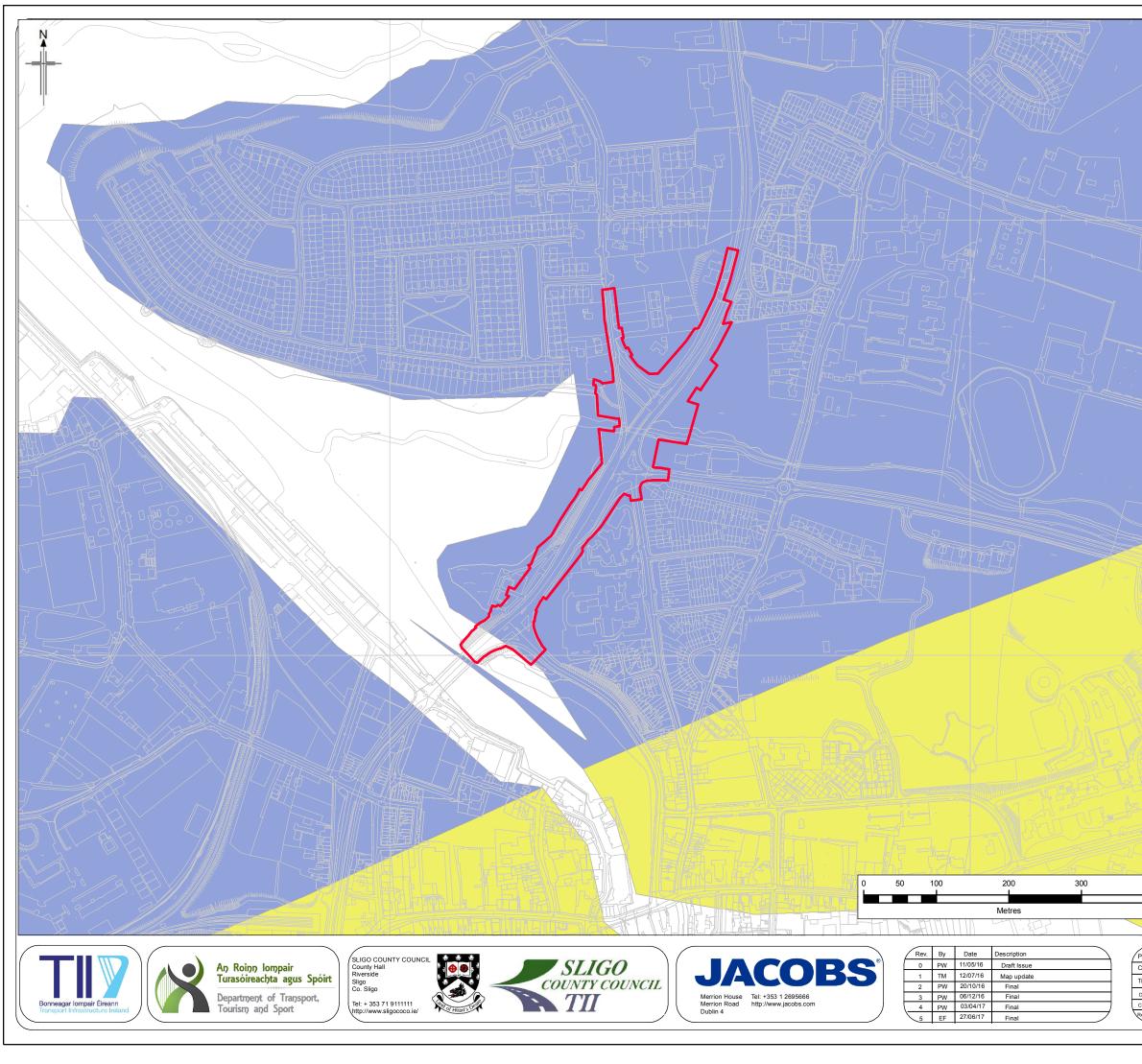
N4-N15 SLIGO URBAN IMPROVEMENT	SCHEME
Chapter 5 Flora and Fauna	
Breeding Birds	
File Name: 32106101 EAR Figure 5.4 Breeding Birds	Drawing No.
Original Scale: 1:1,250 @A1 1:3,000 @ A3	32106101/EAR/ Figure 5.4
Date: 27/06/2017	
	Breeding Birds File Name: 32106101EAR Figure 5.4 Breeding Birds Orriginal Scale: 11.1,250 @A1 11:3,000 @ A3







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t		N4-N15 SLIGO URBAN IMPROVEMENT S	СНЕМЕ
onent Chapter 6 Hydrology, Geomorphology & Hydromorphology		orphology	
		Surface Water Features	
EF	=	File Name: 32106101 EAR Figure 6.1 Surface Water Features 10.2	Drawing No.
d: OE)	Original Scale: 1:2,500 @A1 1:5,000 @A3	32106101/EAR/ Figure 6.1
d: OE)	Date: 27/06/2017	



<u>Legend :</u>

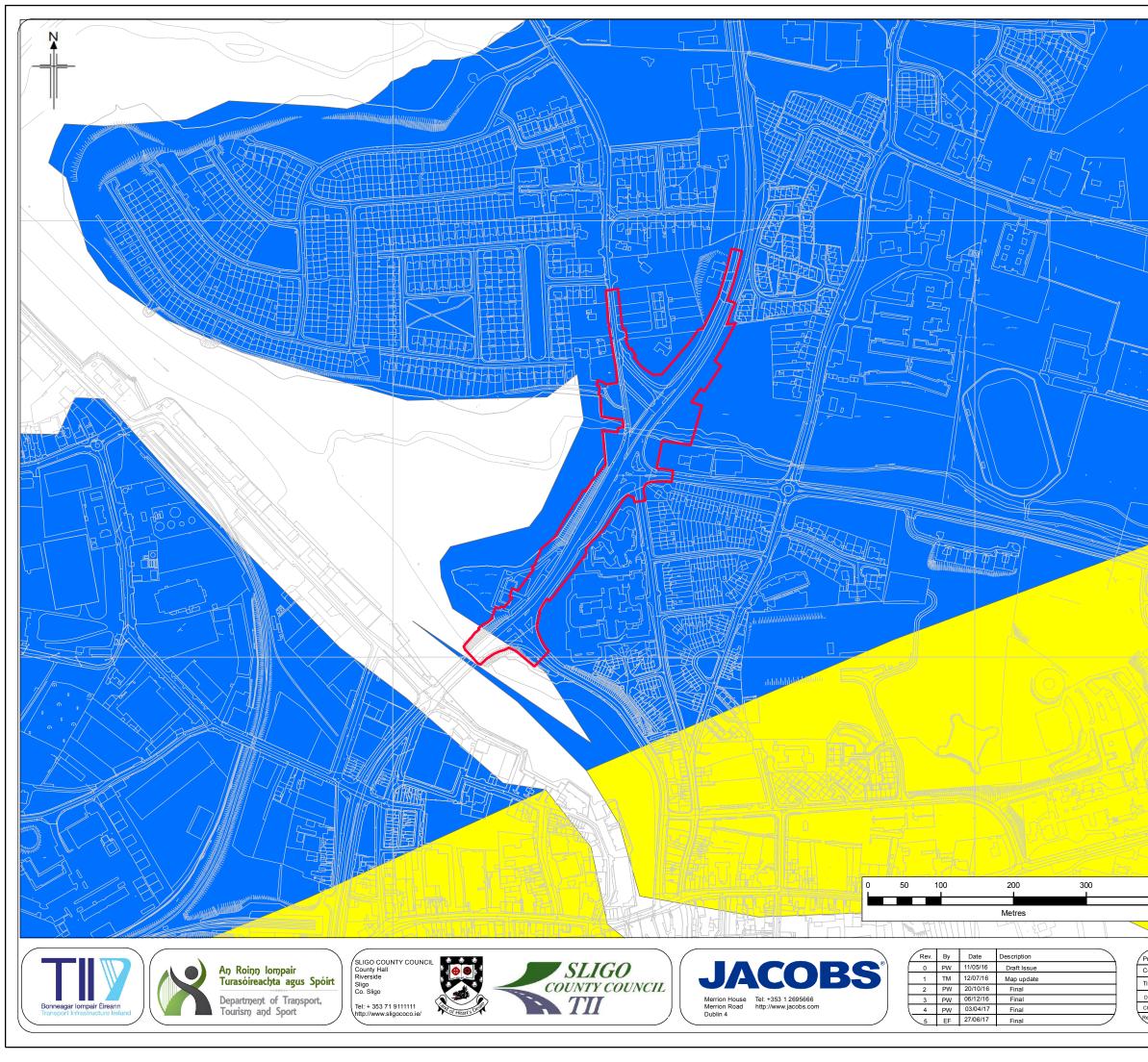
Proposed Development Boundary

Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones

Regionally Important Aquifer -Karstified (conduit)



Project	vject N4-N15 SLIGO URBAN IMPROVEMENT SCHEME	
Component	Chapter 7 Geology, Soils & Hydrogeology	
Title :	Aquifer Classification	
Drawn: EF	File Name: 32106101 EAR Figure7.1 Aquifer Classification	Drawing No.
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Reviewed: VSM	Date: 27/06/2017	



Legend :

Proposed Development Boundary

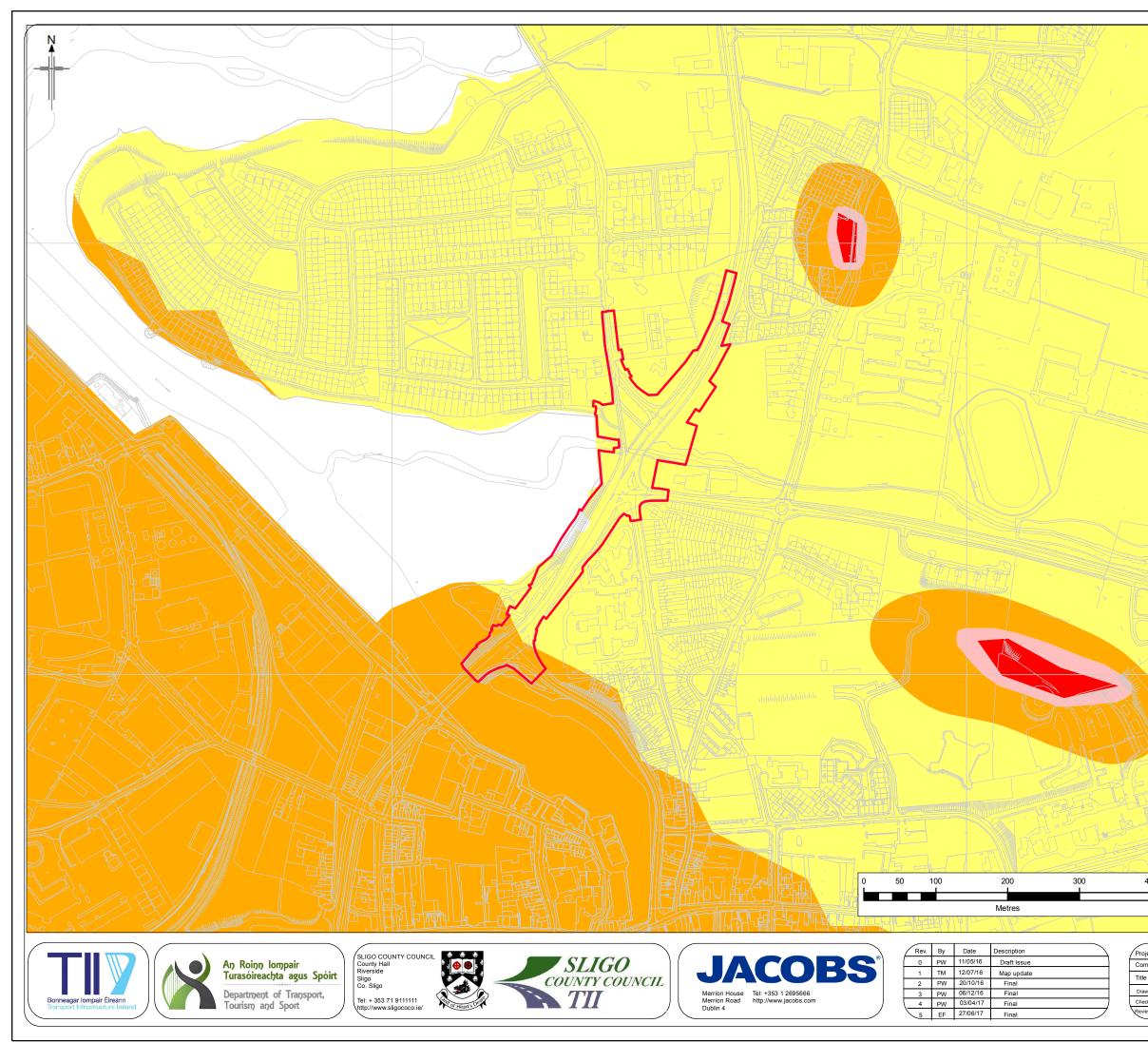
Dartry Limestone Formation

Glencar Limestone Formation



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Project	N4-N15 SLIGO URBAN IMPROVEMENT S	СНЕМЕ
Component	Chapter 7 Geology, Soils & Hydrogeology	
Title :	Bedrock Geology	
Drawn: EF	File Name: 32106101 EAR Figure 7.2 Bedrock Geology	Drawing No.
Checked: AC	Original Scale: 1:2,500 @A1 1:5,000 @A3	32106101/EAR/ Figure 7.2
Reviewed: AC	Date: 27/06/2017	



Legend :

Proposed Development Boundary

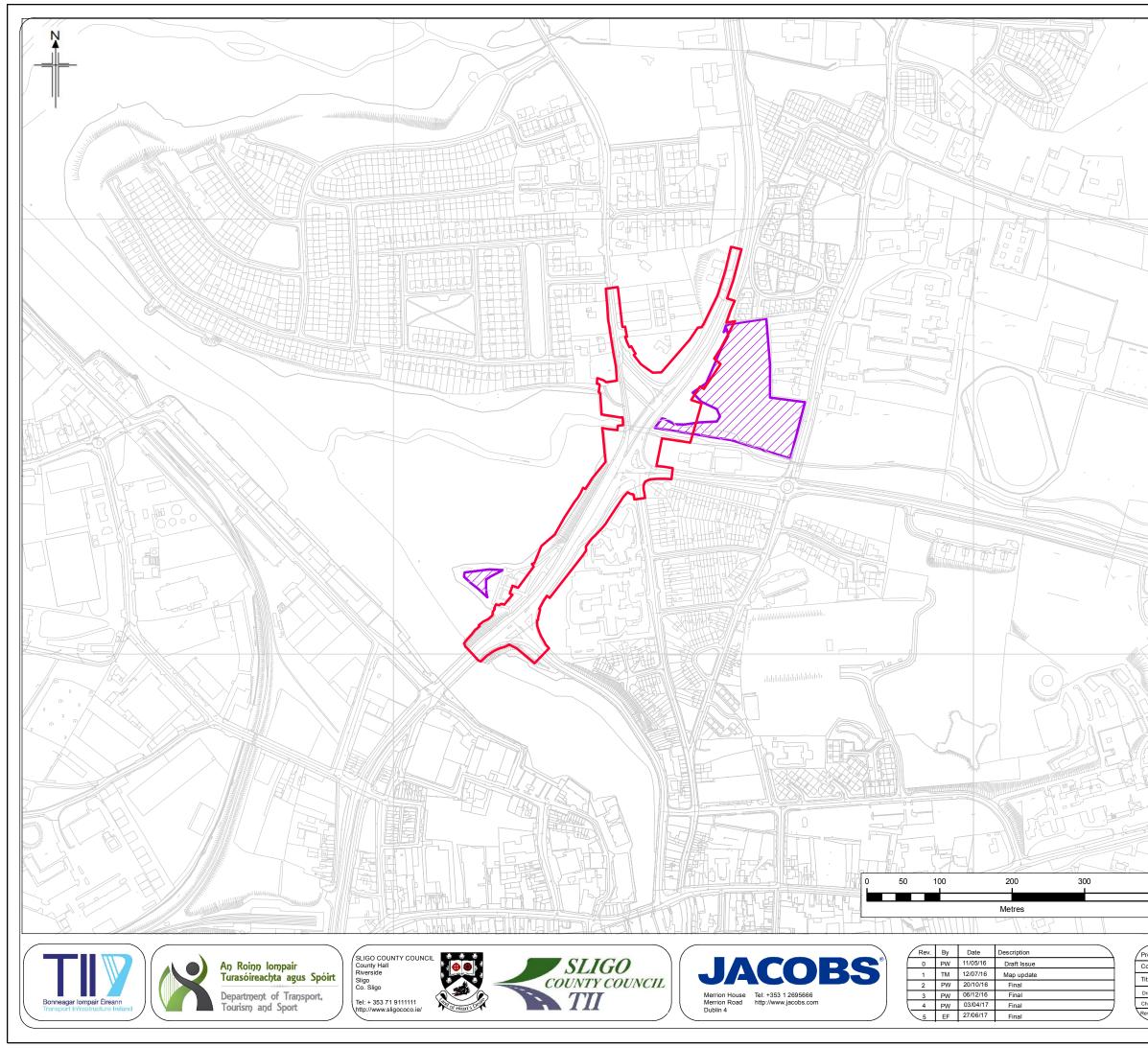
Extreme

High

Moderate

Rock at or near Surface or Karst

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ject		N4-N15	SLIGO URBAN IM	PROVEMENT SC	СНЕМЕ
mpone	nt	Chapter	7 Geology, Soils &	Hydrogeology	
e:		Groundv	vater Vulnerability		
iwn:	EF	File Name:	32106101 EAR Figure 7.3 Groundwa	ıter Vulnerability	Drawing No.
ecked:	EP	Original Scale	a: 1:2,500 @A1 1:	5,000 @ A3	32106101/EAR/ Figure 7.3
iewed:	VSM	Date:	27/06/2017		



Legend :

Proposed Development Boundary

Groundwater Dependent Ecosystems

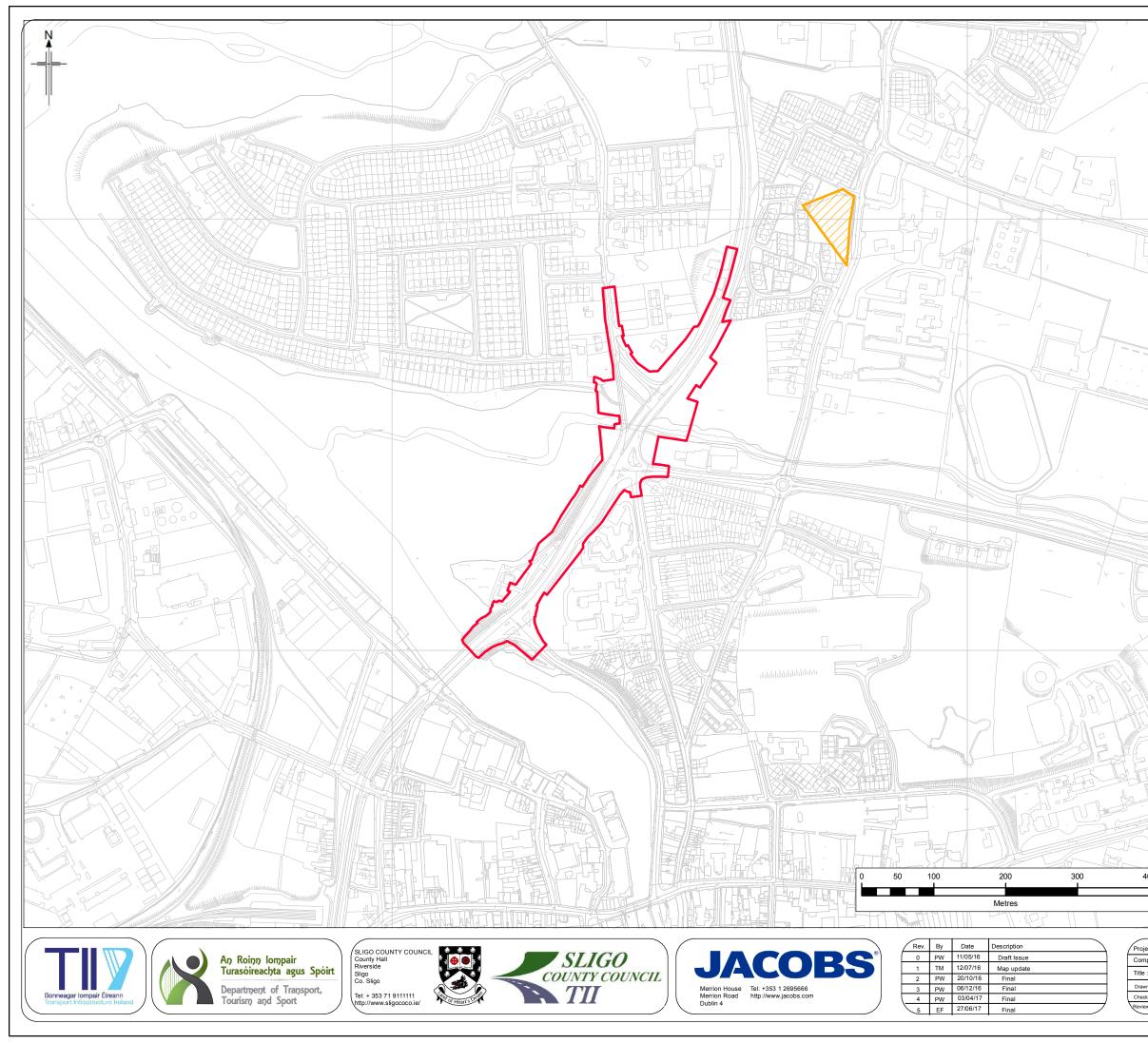


GS4 Wet Grassland

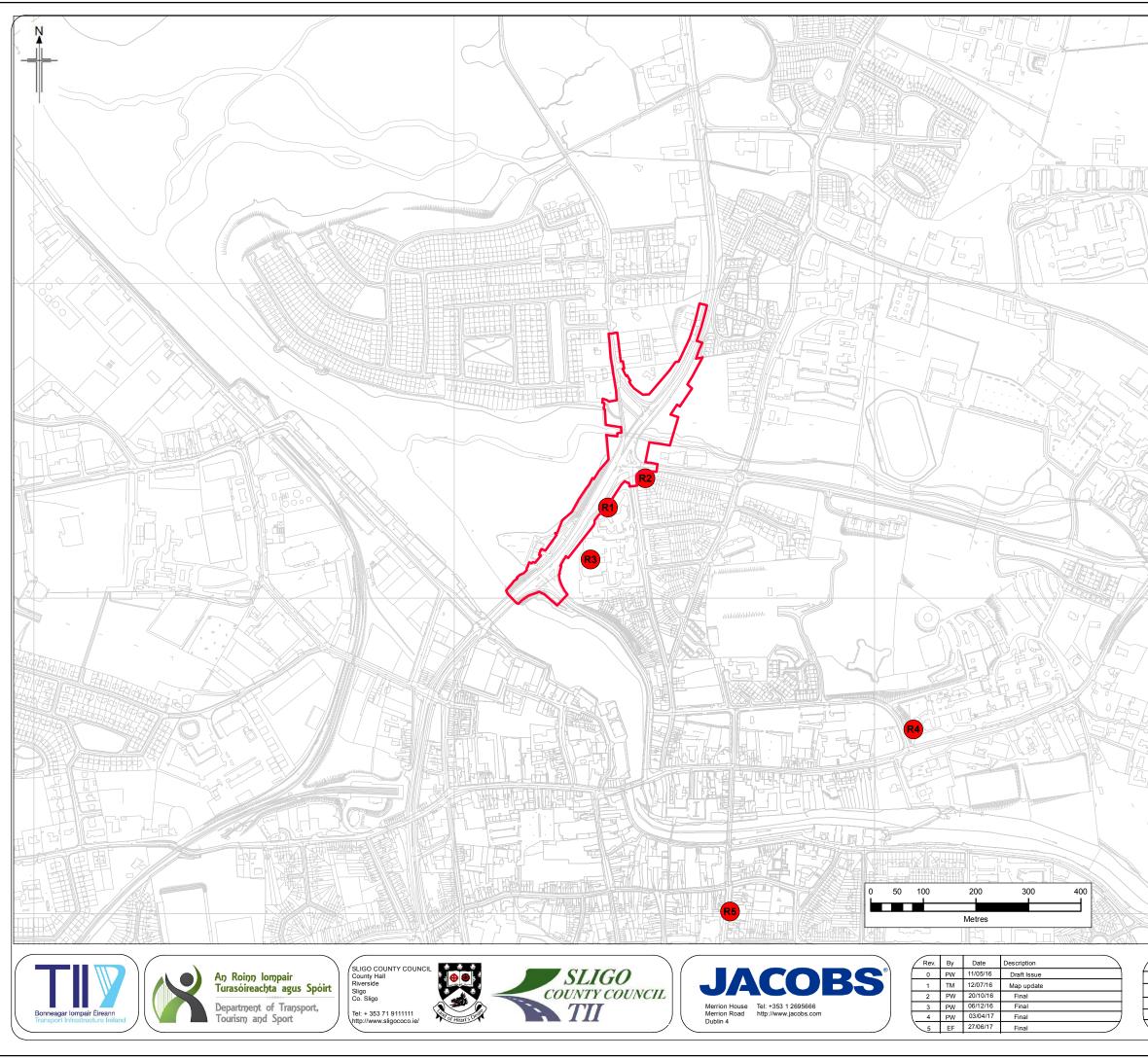
Project N4-N15 SLIGO URBAN IMPROVEMENT SCHEME		
Component	Chapter 7 Geology, Soils & Hydrogeology	
Title :	Groundwater Dependent Ecosystems	
Drawn: EF	File Name: 32106101 EAR Figure 7.4 Groundwater Dependent Ecosystems	Drawing No.
Checked: EP	Original Scale: 1:2,500 @A1 1:5,000 @A3	32106101/EAR/ Figure 7.4
Reviewed: VSM	Date: 27/06/2017	

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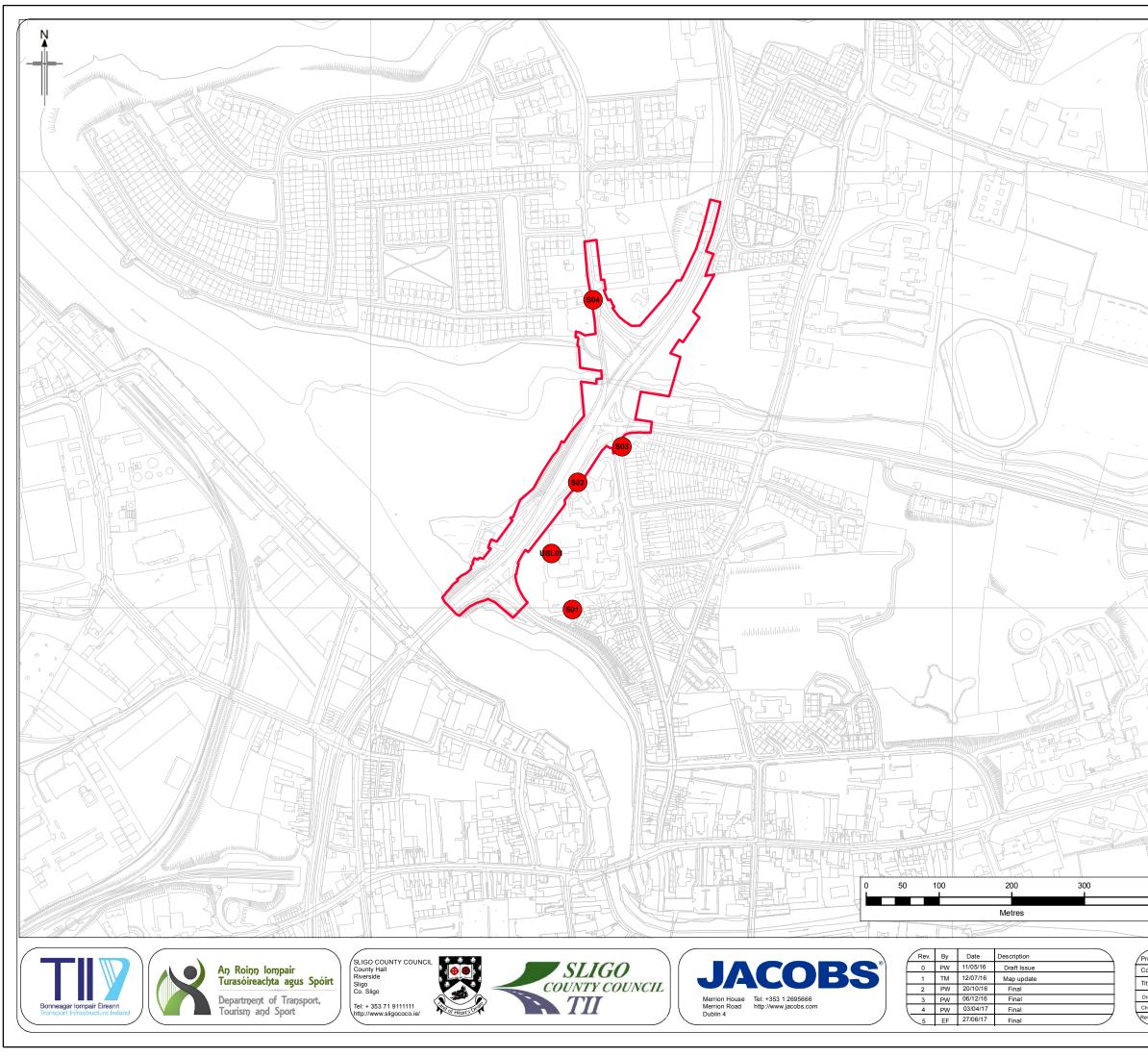
400



/		32106101/EAR/ Fi	gure 7.5
	L	.egend :	
		Proposed Development Contaminated Land Pot Source (S2)	
	Licen	ance Survey Ireland. All rights reserved. ce Number 2010/20 CCMA/ Sligo County Count ance Survey Ireland and Government of Ireland.	
oject N4-N15 SLIGO URBAN IMPROVEMENT SCHEME			
omponent		Chapter 7 Geology, Soils & Hydrogeology Potential Contamination Location	
awn: EF		File Name: 32106101 EAR Figure 7.5 Potential Contaminated Land	Drawing No.
viewed: EF		Original Scale: 1:2,500 @A1 1:5,000 @ A3 Date: 27/06/2017	32106101/EAR/ Figure 7.5



-		32106101/EAR/ Figure 8.1	
-	L	_egend :	
	-		
		Proposed Development Boundary	
		Air Quality Assessment Location	
40			
	Ordnance Survey Ireland. All rights reserved. Licence Number 2010/20 CCMA/ Sligo County Council Ordnance Survey Ireland and Government of Ireland.		
Project N4-N15 SLIGO URBAN IMPROVEMENT SCHEME			
Component Chapter 8 Air Quality & Climate			
Title : Drawn: EF	:	Air Quality Assessment Locations File Name: 32106101EARFigue 8.1Air Quality Assessment Locations Drawing No.	—
Checked: SMC	М	Original Scale: 1:3,500 @A1 1:7,000 @ A3 32106101/EAR/ Figure	8.1
Reviewed: SMcl	М	Date: 27/06/2017	//





Legend :

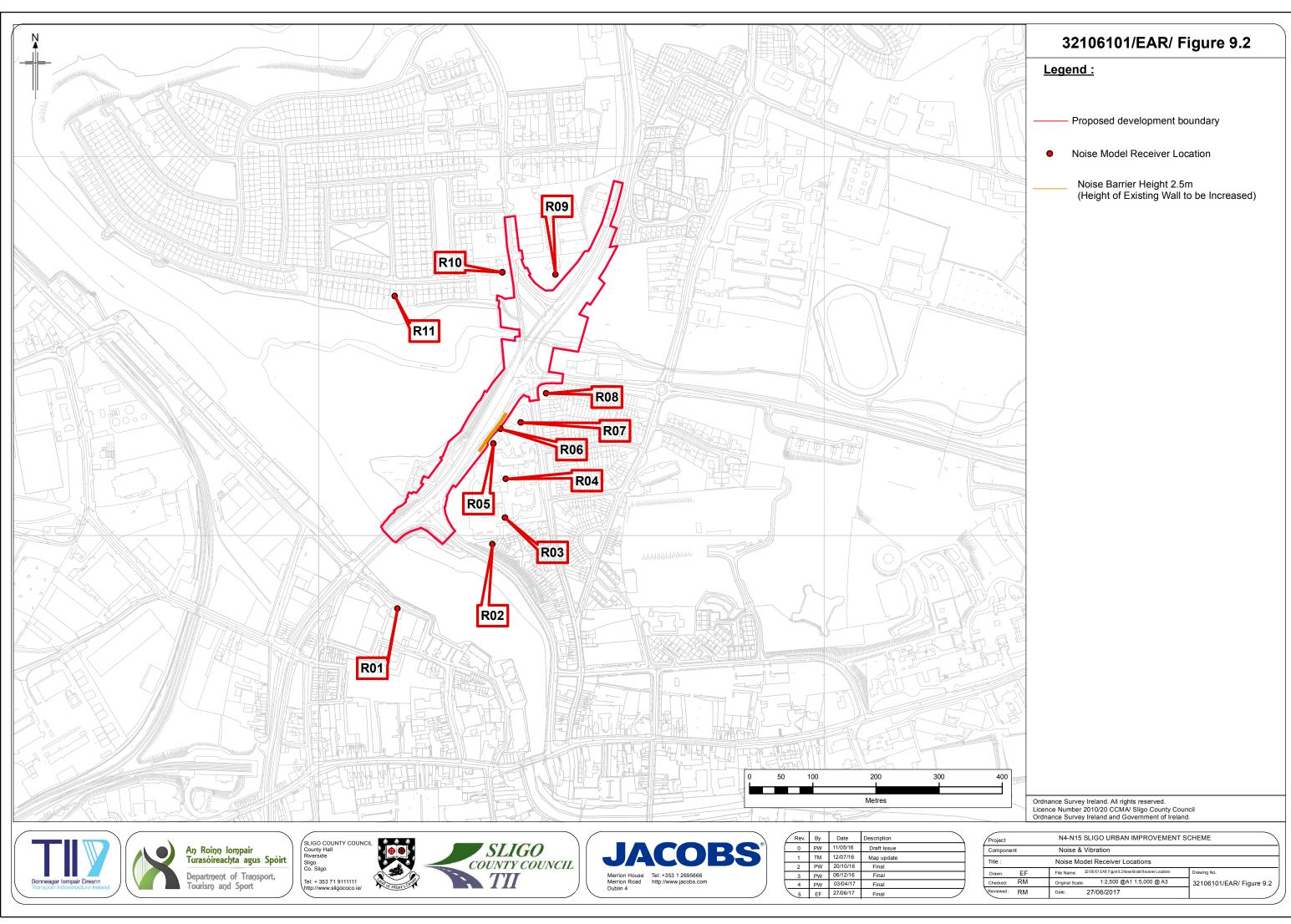


Proposed development boundary

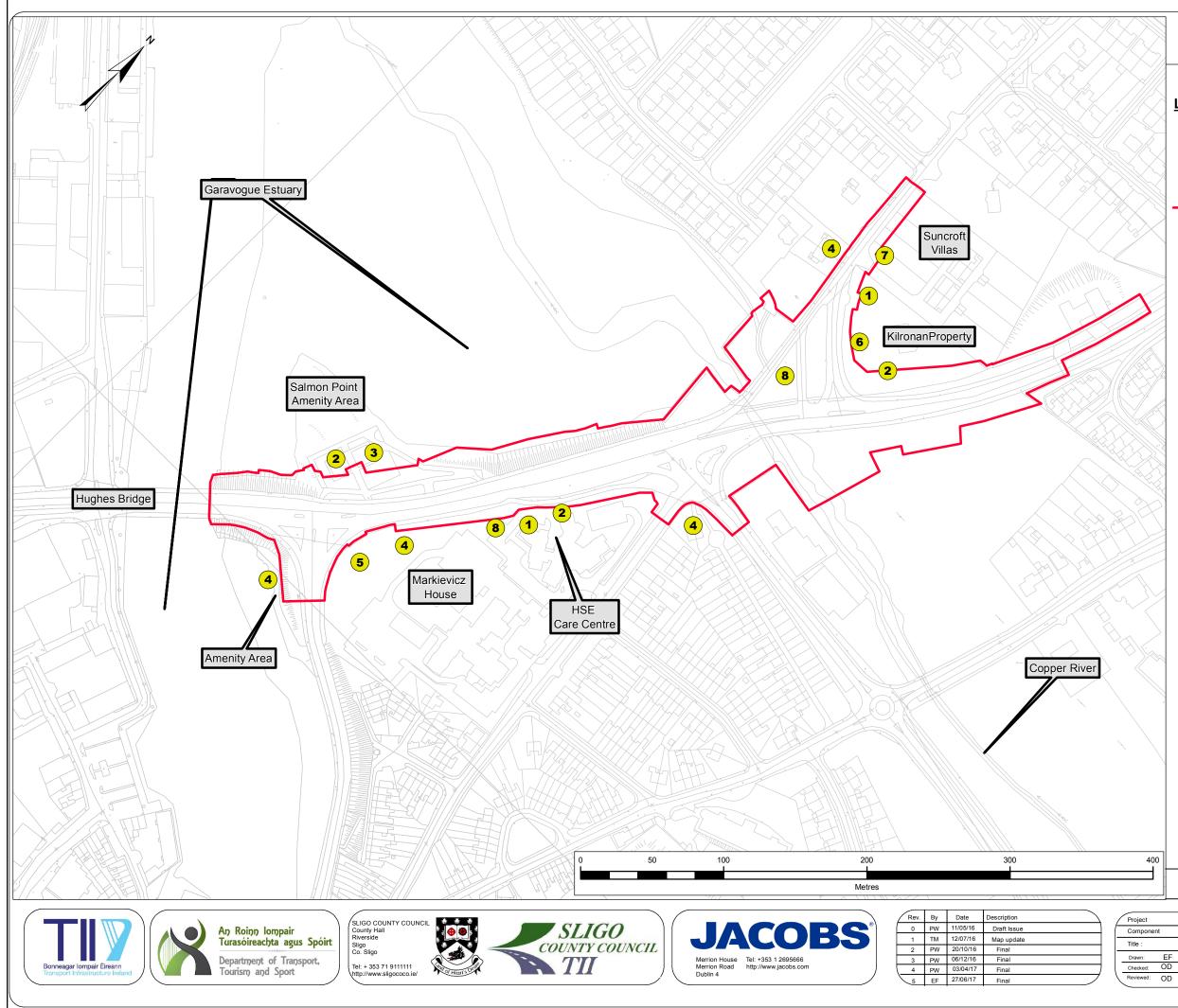


Noise Survey Location

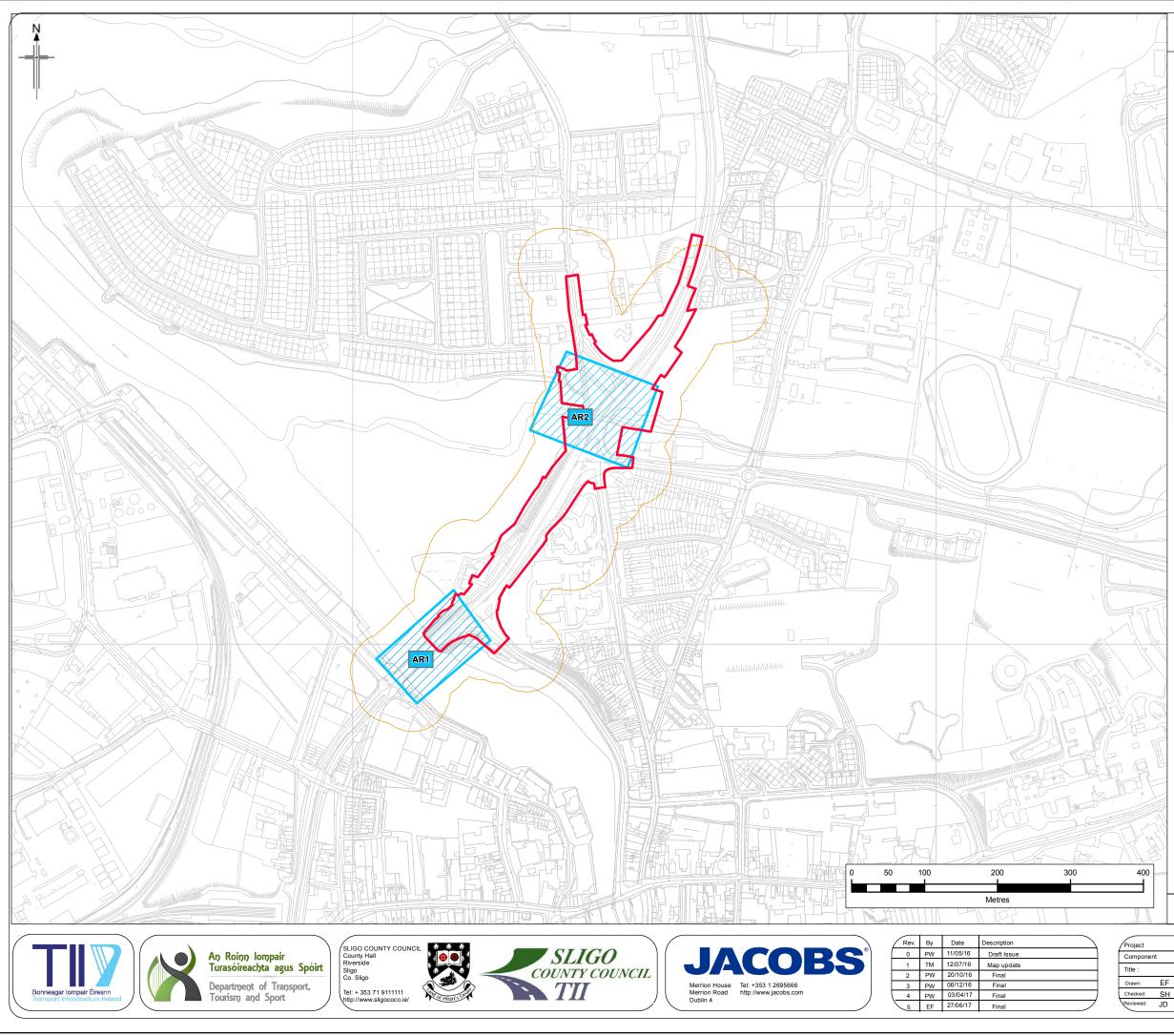
N4-N15 SLIGO URBAN IMPROVEMENT SCHEME Noise & Vibration				
Noise & Vibration				
Noise Model Receiver Locations				
File Name: 32106101EAR Figure 9.2 Noise Model Reciever Locations	Drawing No.			
Original Scale: 1:2,500 @A1 1:5,000 @A3	32106101/EAR/ Figure 9.2			
Date: 27/06/2017				
1	Licence Number 2010/20 CCMA/ Sligo County Coun Ordnance Survey Ireland and Government of Ireland N4-N15 SLIGO URBAN IMPROVEMENT S Noise & Vibration Noise Model Receiver Locations File Name: 32106101EAR Figure 92 Note ModelReceiver Locations Original Scale: 1:2,500 @A1 1:5,000 @A3			



nponen	t	Noise & Vibration	
:		Noise Model Receiver Locations	
vn:	EF	File Name: 32106101 EAR Figure 9.2 Noise Model Reciever Locations	Drawing No.
ked:	RM	Original Scale: 1:2,500 @A1 1:5,000 @A3	32106101/EAR/ Figure 9
ewed:	RM	Date: 27/06/2017	_



32106101/EAR/ Figure 10.	1
Legend :	
N4_Mitigation_Construction	
Proposed Development Bounda	ry
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N4-N15 SLIGO URBAN IMPROVEMENT SCHEME Chapter 10 Landscape and Visual	
Chapter 10 Landscape and Visual Landscape Mitigation Measures Construction Stage FF File Name. 22108101 EAR Figure 10 1Mitigation Measures Construction Stage Drawing No.	
	AR/ Figure 10.



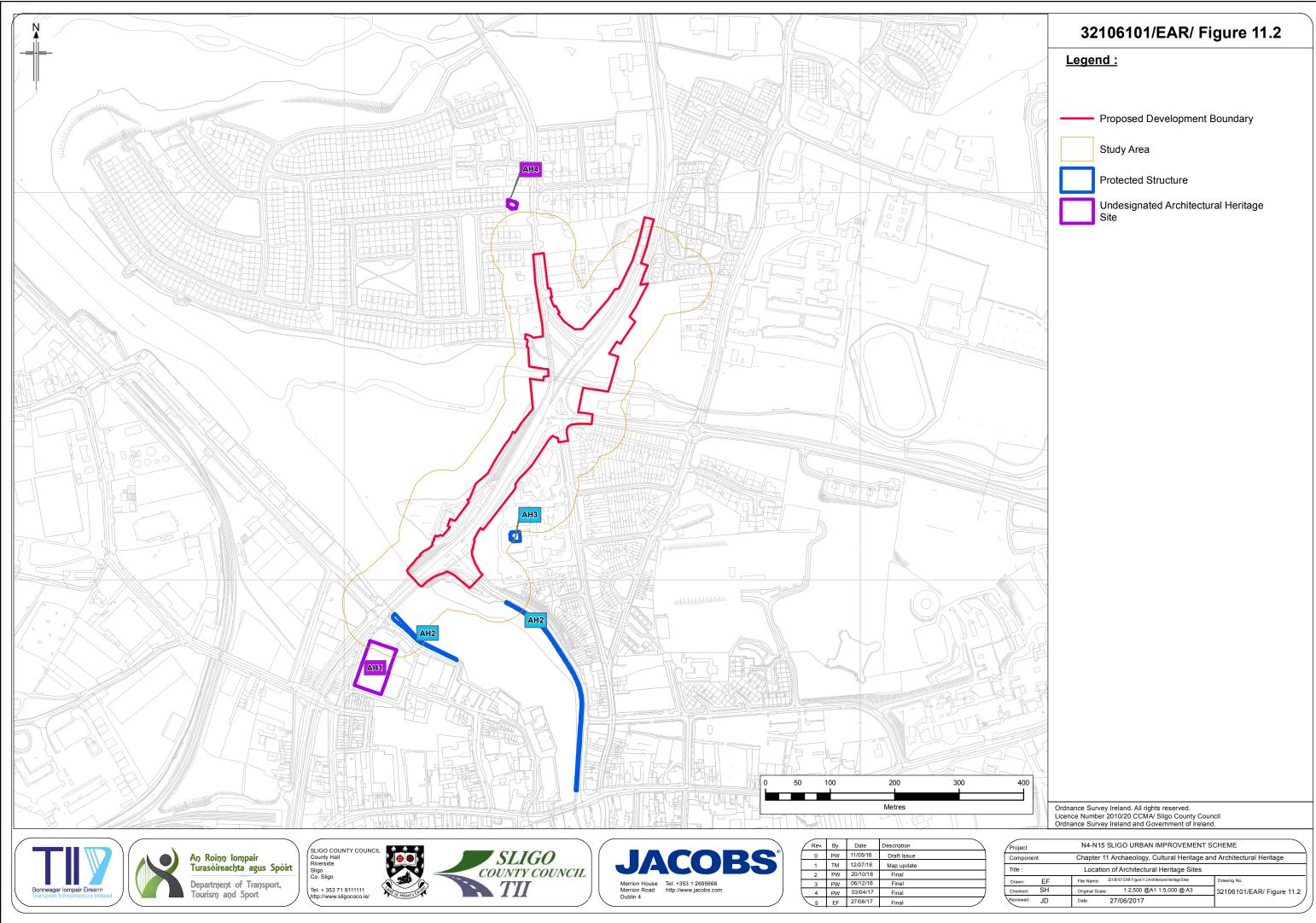
Legend :

Proposed Development Boundary

Study Area

Area of Archaeological Potential

Project		N4-N15 SLIGO URBAN IMPROVEMENT SCHEME		
Componer	hent Chapter 11 Archaeology, Cultural Heritage and Architectural Heritage			
Title :		Location of Archaeological Heritage Site	es	
Drawn:	EF	File Name: 32106101 EAR Figure 11.1 Archaeological Heritage	Drawing No.	
Checked:	SH	Original Scale: 1:2,500 @A1 1:4,943 @ A3	32106101/EAR/ Figure 11.1	
Reviewed:	JD	Date: 27/06/2017		



onent	Chapter 11 Archaeology, Cultural Heritage and Architectural Heritage			
Location of Architectural Heritage Sites				
EF	File Name: 32106101 EAR Figure 11.2 Architectural Heritage Sites	Drawing No.		
d: SH	Original Scale: 1:2,500 @A1 1:5,000 @ A3	32106101/EAR/ Figure 11.2		
^{ed:} JD	Date: 27/06/2017			