



CYCLE LANE IMPROVEMENTS **UPPER HARBOUR DRIVE**

SCHEME DESIGN

PREPARED FOR:



PROJECT NUMBER: T22195 JANUARY 2023

SCHEME DESIGN FOR DISCUSSION PURPOSES ONLY







NOT FOR CONSTRUCTION

	DRAWING INDEX		
DRAWING NUMBER	DRAWING TITLE	NO. OF SHEETS	REVISION
0	LOCATION PLAN AND GENERAL NOTES	1	A
201-207	OPTION 5 CONCEPT DESIGN	7	A
301-302	TYPICAL CROSS SECTION	2	A
401-403	RAISED CROSSING PLANS	3	A
501	STANDARD ENGINEERING DETAILS	1	A
	TOTAL NUMBER OF SHEETS	14	

1. A BI-DIRECTIONAL CYCLEWAY AND WIDENING THE CYCLE SEPARATOR BUFFERS WOULD PROVIDE ADDITIONAL

VEHICLE SPEEDS AT THESE LOCATIONS, AND IMPROVING ROAD SAFETY.

3. HAZARD MARKER SIGNS ON LEADING SEPARATORS WILL INCREASE THEIR CONSPICUITY.

MARKINGS AND REDUCE THE CHANCES OF CRASHES WITH THE CYCLE SEPARATORS.

SEPARATION BETWEEN ON-ROAD CYCLISTS AND TRAFFIC, IMPROVING SAFETY AND AMENITY FOR CYCLISTS. 2. RAISED CYCLE CROSSINGS AT KEY LOCATIONS SHOULD HAVE A TRAFFIC CALMING IMPACT ON MOTORISTS, REDUCING

4. DOUBLE WIDTH EDGE LINES ALONG WIDER CYCLE LANE BUFFERS WILL INCREASE THE CONSPICUITY OF THE ROAD

5. RED RRPMS ALONG THE BUFFER EDGE LINE WILL INCREASE THEIR CONSPICUITY, REDUCING CRASHES WITH THE CYCLE

DESIGN NOTES:

SEPARATORS.

Kristin School Wainoni Park GREENHITHE HobsonVille Point Coastal Waikway Fairy Houses



SCHEME DESIGN FOR DISCUSSION PURPOSES ONLY

L						FOR:
E	B SECOND ISSUE	RB	JD	BR	01/23	20022-0
A	FIRST ISSUE	RB	JD	BR	01/23	An Au
N	o Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date	
PI	ot Date: 24 January 2023 - 4:40 pm Cad File No: G:\Traffic Projects\T22 Projects	T22195 Up	per Harbou	r Drive - Bi-D	virectional C	ycle Lane - S

Auckland 🎇 Transport

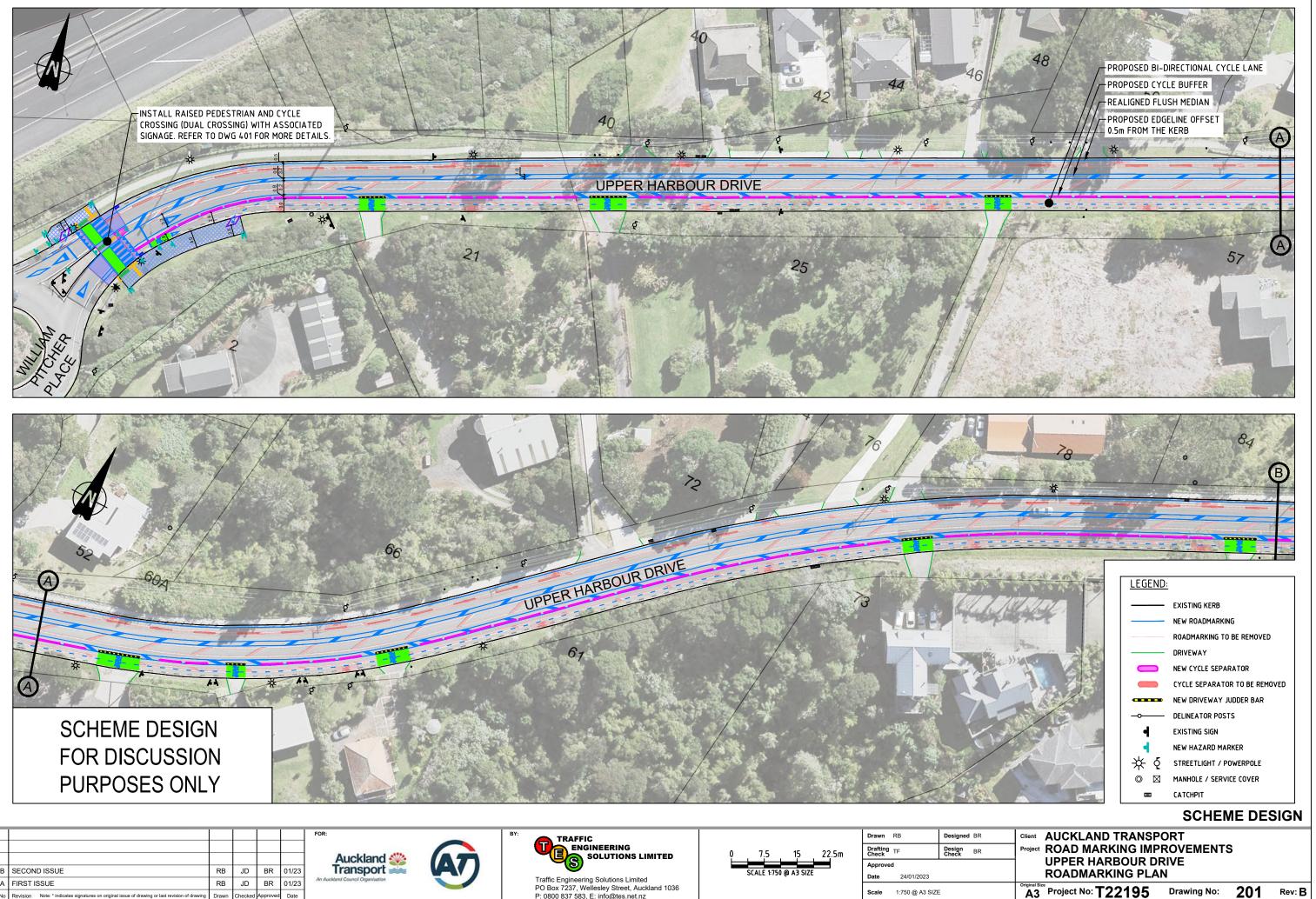
Scheme Design\AutoCAD\AutoCAD Files\Upper Harbour Drive - Scheme Design.dw

Traffic Engineering Solutions Limited PO Box 7237, Wellesley Street, Auckland 1036 P: 0800 837 583, E: info@tes.net.nz

DRAFT

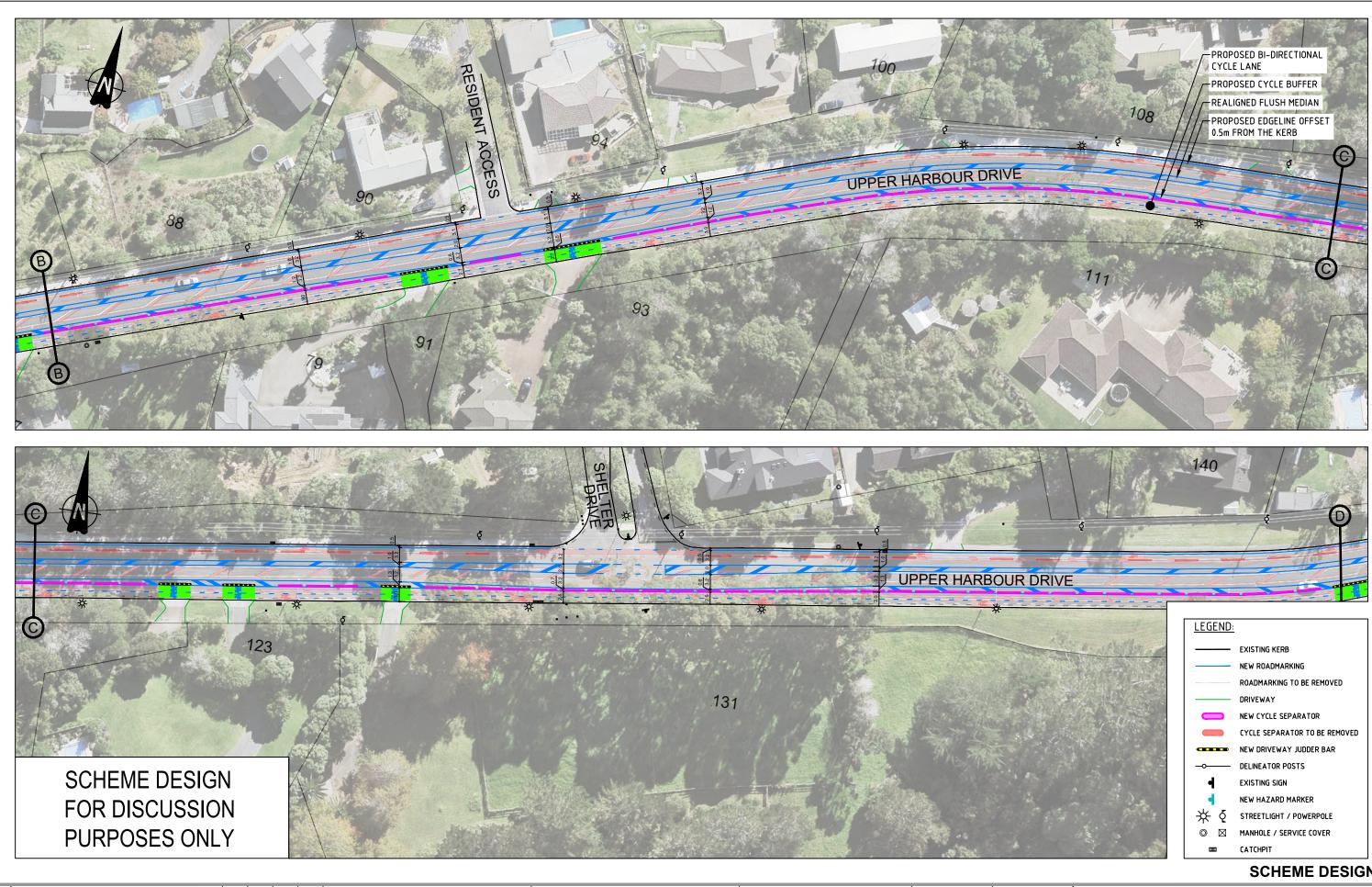
Drawn	RB	Designed	BR
Drafting Check	TF	Design Check	BR
Approve	d		
Date	24/01/2023		
Scale	NTS		

Tai Ping Albany	Mairangi
	21 Bay Beach
Romedale Rd Bunnings Ware	ehouse
North Shore Golf Club	n Drive
ROSEDALE	Pupuke Golf Club
23	
Countdo	wn Sunnynook 🖓 👘 📐
26	Parget Rev [31]
	(arpet By)
ALBANY	26
Stand.	WAIRAU VALLEY
	PAK'nSAVE
PROJECT L	
WILLIAM PITCHER	
epherds PLACE	HILLCREST
CH HAVEN ESKdale	
Reserve	- Company
See Some and	
CA I ITA	puprime Rd NORTHCOTE
	2) Š Onepoto
New World Birkenhead Birkenhead	ENHEAD [27] Domain
Chelsea Es	Bayen
	and the second of
	SCHEME DESIGN
<image/>	PORT
Project ROAD MARKING IMP UPPER HARBOUR D	PORT PROVEMENTS DRIVE
Project ROAD MARKING IMP UPPER HARBOUR D	PORT PROVEMENTS DRIVE ND GENERAL NOTES



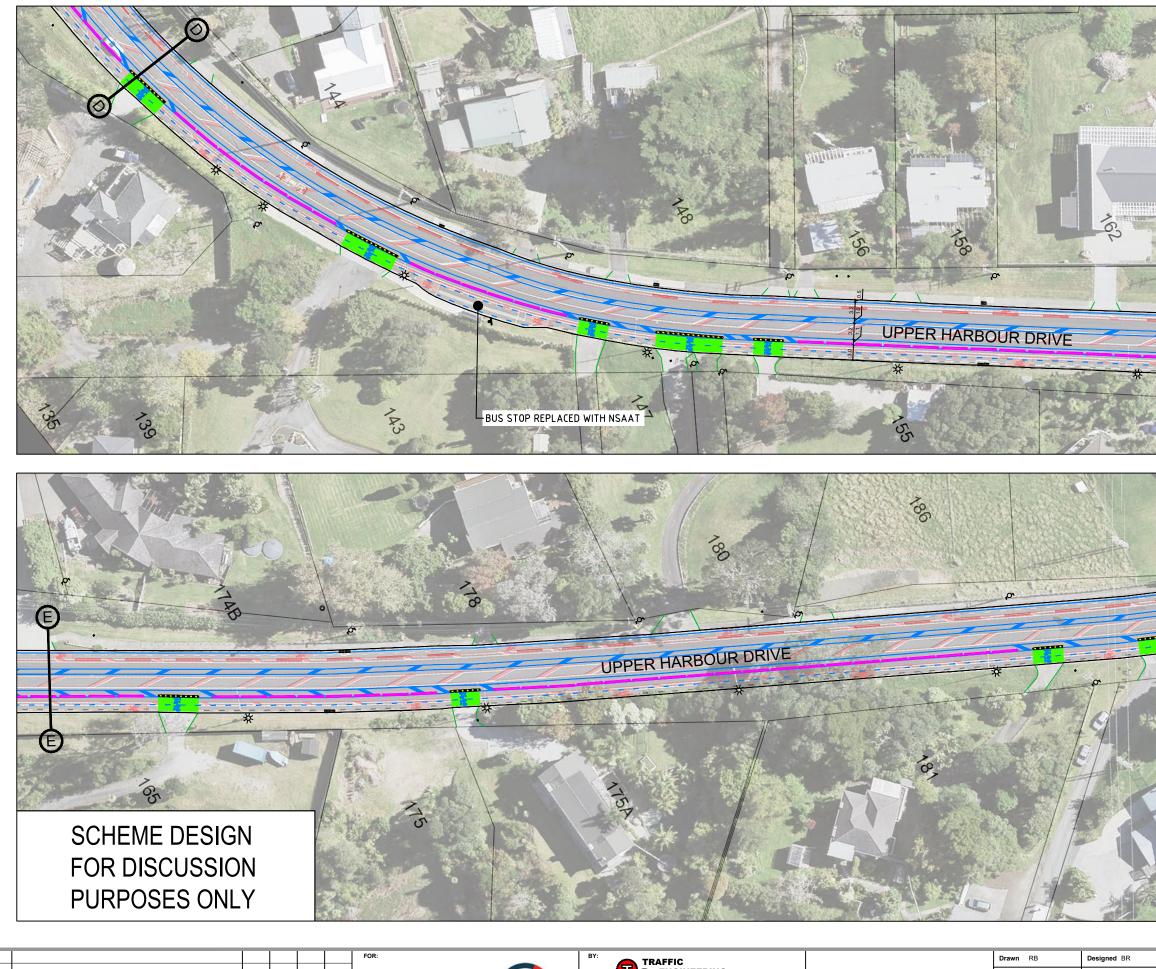
No Revision Note: * indicates signatures on	original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date		P: 0800 837 583, E: info@tes.net.nz	
Plot Date: 24 January 2023 - 4:41 pm	Cad File No: G:\Traffic Projects\T22 Projects\	T22195 Up	per Harbou	r Drive - Bi-I	Directional C	ycle Lane - Scheme Design\AutoCAD\AutoCAD Files\Upper Harbour Drive - Scheme Design.dwg		

Scale 1:750 @ A3 SIZE



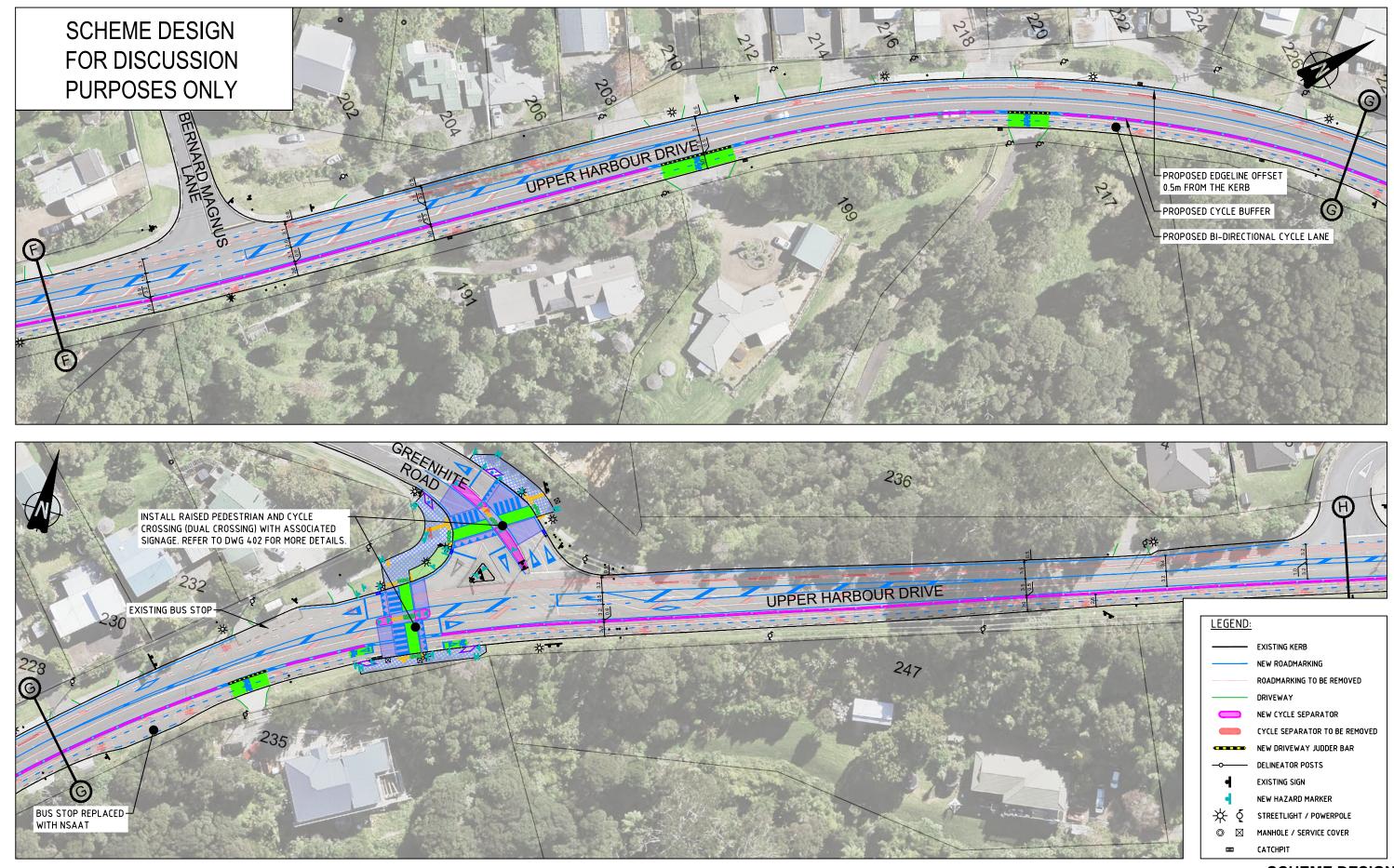
		⊢				FOR:			Drawn RB	Designed BR
		⊢				Augland ***		0 7.5 15 22.5m	Drafting TF Check	Design Check BR
		—				Auckland 🎬	SOLUTIONS LIMITED Traffic Engineering Solutions Limited PO Box 7237, Wellesley Street, Auckland 1036 P: 0800 837 583, E: info@tes.net.nz		Approved	
В	SECOND ISSUE	RB	JD	BR	01/23	Transport 🚲		SCALE 1:750 @ A3 SIZE	Date 24/01/2023	
А	FIRST ISSUE	RB	JD	BR	01/23	An Auckland Council Organisation			Dute 24/01/2020	
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	d Date				Scale 1:750 @ A3 SI	ZE
Die	Dedu Del Environ 2000 4/44 env	TODAOS UN	an an Linak ava	Datus Di	Disc etile and O	the Long Cohema Design Math CAD Math CAD File Willing and Hard and Drive Cohema Design of				

100	C. ALLANT			DRIVEWAT		
E		Sol track is		NEW CYCLE SEPA	RATOR	
		a start and a start		CYCLE SEPARAT	OR TO BE REMO	DVED
	16.	1. 2. 2. 2.		NEW DRIVEWAY .	IUDDER BAR	
				DELINEATOR POS	TS	
			4	EXISTING SIGN		
		and the second	•	NEW HAZARD MA	RKER	
		Press a	₩ 🤇	STREETLIGHT / P	OWERPOLE	
	-		0 🛛	MANHOLE / SERV	ICE COVER	
				CATCHPIT		
				SCHE	ME DES	SIGN
	Client	AUCKLAND 1	RANSPO	DRT		
	Project	ROAD MARK			S	
	1	UPPER HARE				
		ROADMARKI	NG PLAN			
	Original Siz	Project No: T22	2195	Drawing No:	202	Rev: B
	•					



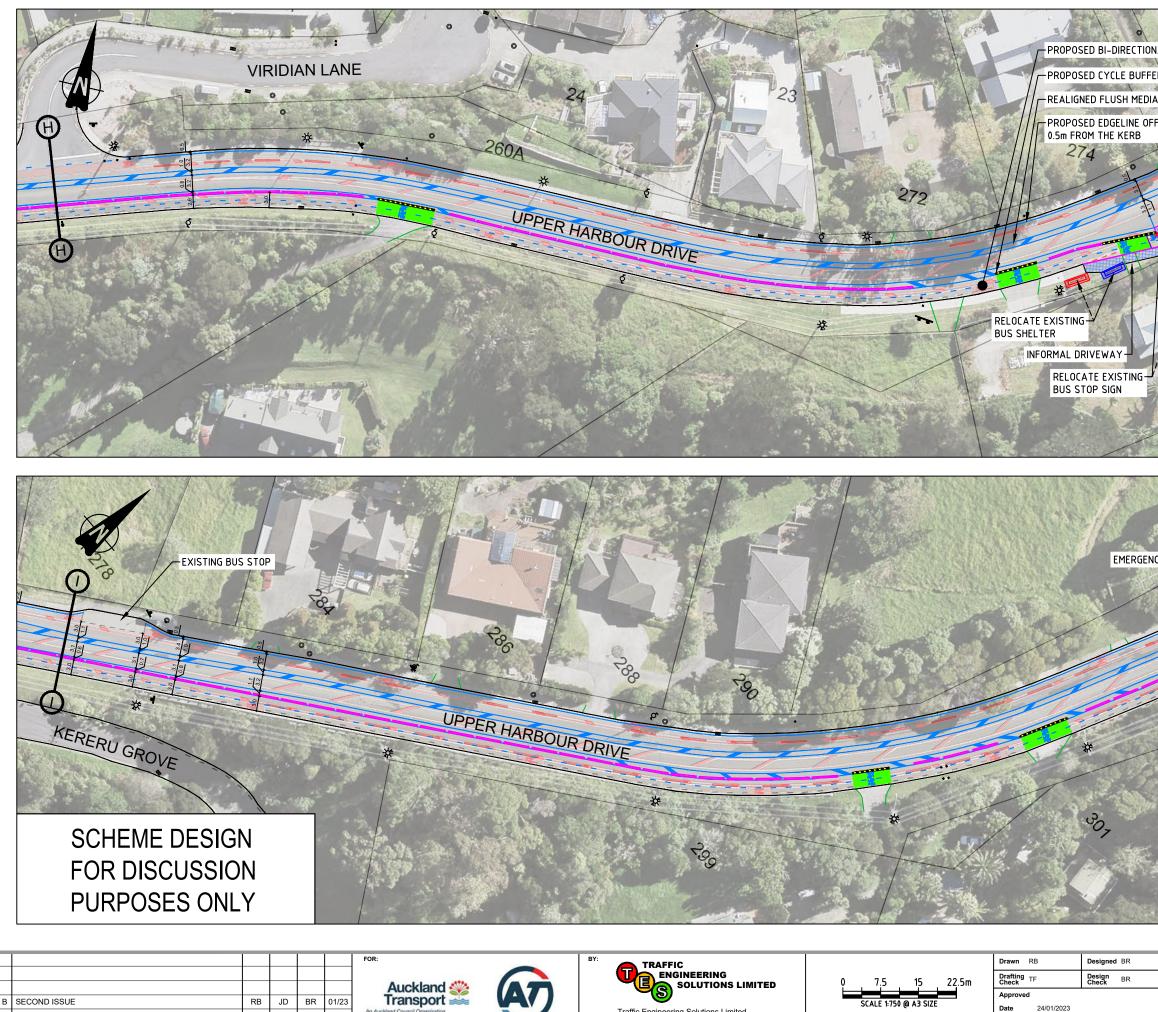
		L				FOR:			Drawn RB	Designed BR
		<u> </u>				Augldond 1	ENGINEERING SOLUTIONS LIMITED	0 7.5 15 22.5m	Drafting _{TF} Check	Design Check BR
D	SECOND ISSUE	RB			01/23	Auckland 🎬 (A7)			Approved	
			50			An Auckland Council Organisation	Traffic Engineering Solutions Limited	SCALE 1:750 @ A3 SIZE	Date 24/01/2023	
A	FIRST ISSUE	RB	JD	BR	01/23		PO Box 7237, Wellesley Street, Auckland 1036	Γ	0	-
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	d Date		P: 0800 837 583, E: info@tes.net.nz		Scale 1:750 @ A3 SIZE	-
Plot	Date: 24 January 2023 - 4:41 pm Cad File No: C:\Traffic Projecte\T22 Projecte\	T22105 Lir	oper Harbou	Drive Bi	Directional C	ucle Lane - Scheme Design/AutoCAD/AutoCAD Eiles/Unner Harbour Drive - Scheme Design du				

PR RE	OPOSED C	-DIRECTIONAL C (CLE BUFFER LUSH MEDIAN DGELINE OFFSET HE KERB		5
		EXISTING KERB NEW ROADMARKIN ROADMARKING TO DRIVEWAY NEW CYCLE SEPAR CYCLE SEPARATO NEW DRIVEWAY JU DELINEATOR POST EXISTING SIGN NEW HAZARD MAR STREETLIGHT / PU MANHOLE / SERVI CATCHPIT	BE REMOVED RATOR IR TO BE REMOV UDDER BAR TS RKER DWERPOLE CE COVER	
Client AUCKLAND TR Project ROAD MARKIN UPPER HARBO ROADMARKINO	g impr Ur dri	RT OVEMENTS		
A3 Project No: T221	95	Drawing No:	203	Rev: B



		<u> </u>		\square	\square	FOR:	BY:			Drawn RB	Designed BR
		i	<u> </u>	–	<u> </u>	Auckland 🎇	ENGINEERING SOLUTIONS LIMITED	0 7,5 15 22.5m	Drafting Check TF	Design Check BR	
		—	<u> </u>	<u> </u>	<u> </u>					Approved	
В	SECOND ISSUE	RB	JD	BR	01/23			Traffic Engineering Solutions Limited PO Box 7237, Wellesley Street, Auckland 1036 P: 0800 837 583, E: info@tes.net.nz	SCALE 1:750 @ A3 SIZE	Date 24/01/2023	
А	FIRST ISSUE	RB	JD	BR	01/23	An Auckland Council Organisation				Dute 24/01/2020	
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approver	d Date					Scale 1:750 @ A3 SIZE	E
Plot	t Date: 24 January 2023 - 4:41 pm Cad File No: G:\Traffic Projects\T22 Projects\	T22195 Up	per Harbou	r Drive - Bi-	Directional C	Cycle Lane - Scheme Design\AutoCAD\AutoCAD Files\Upper Harbour Drive - Scheme Design	n.dwg				

				- ANALA
		10 10 10 10 10 10 10 10 10 10 10 10 10 1	F	t
	EGEND: 	EXISTING KERB NEW ROADMARKIN ROADMARKING TO DRIVEWAY NEW CYCLE SEPAR CYCLE SEPARATO NEW DRIVEWAY JU DELINEATOR POST EXISTING SIGN NEW HAZARD MAR STREETLIGHT / PO MANHOLE / SERVI CATCHPIT	BE REMOVED RATOR R TO BE REMO UDDER BAR 'S RKER DWERPOLE CE COVER	
Client AUCKLAND TRA Project ROAD MARKING UPPER HARBOU ROADMARKING	IMPRO JR DRI PLAN	OVEMENTS		SIGN
A3 Project No: T221	95	Drawing No:	204	Rev: B



					01/23			
А	FIRST ISSUE	RB	JD	BR	01/23	An Auckland Council Organisation	Traffic Engineering Solutions Limited PO Box 7237, Wellesley Street, Auckland 1036	
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date		P: 0800 837 583, E: info@tes.net.nz	
Plot	Date: 24 January 2023 - 4:41 pm Cad File No: G:\Traffic Projects\T22 Projects	T22195 Up	per Harbour	Drive - Bi-D	Directional C	cle Lane - Scheme Design\AutoCAD\AutoCAD Files\Upper Harbour Drive - Scheme Design.dw	4	

RB JD BR 01/23

B SECOND ISSUE

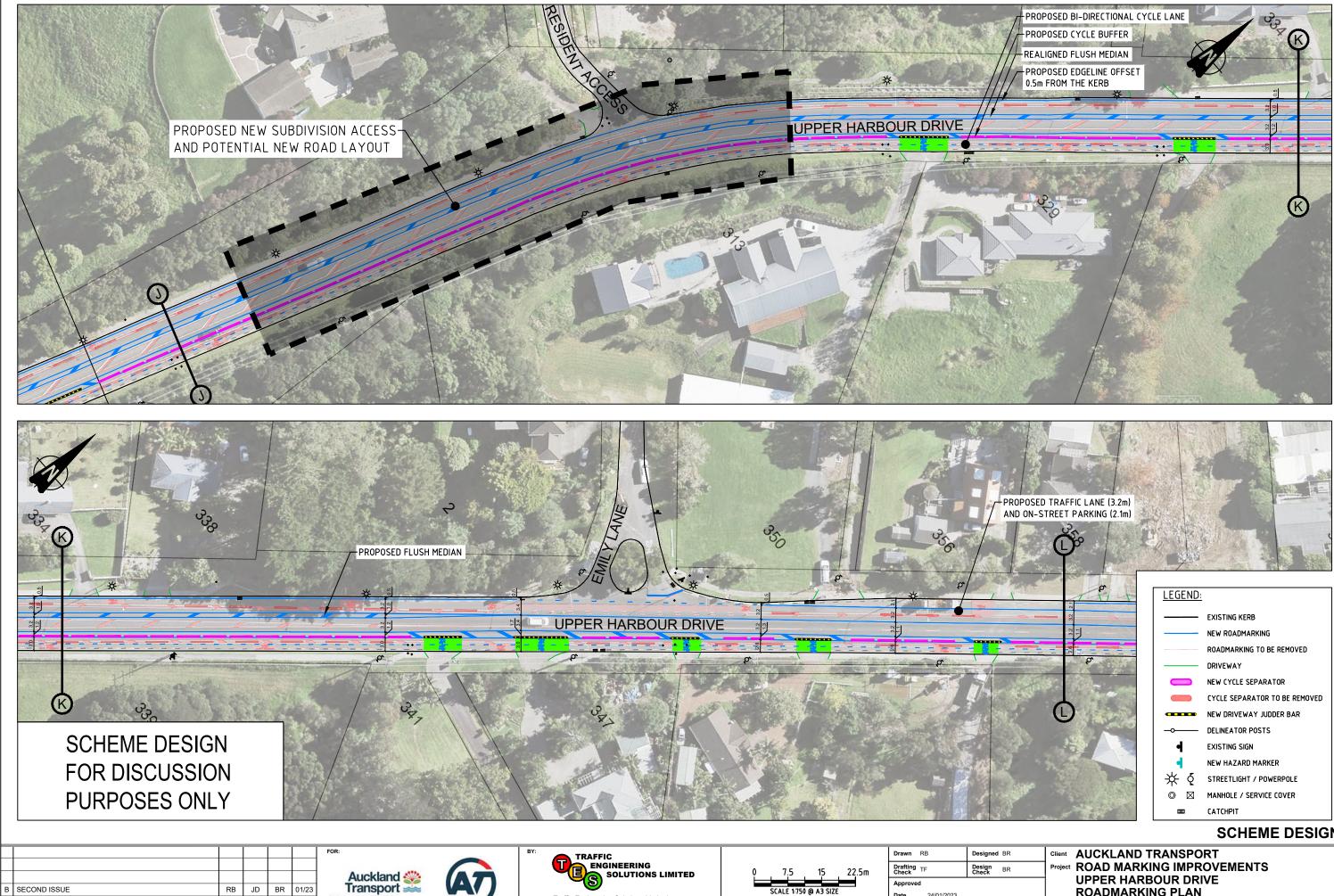
AN XAL CYCLE LANE 280 RAN XAN XAN XAN XAN XAN XAN XAN XAN XAN X	RERERU GROVE
В	VS STOP CYCLE YPASS ERB CUTBACK
CY PULL OVER AREA	
	LEGEND: EXISTING KERB NEW ROADMARKING ROADMARKING TO BE REMOVED DRIVEWAY DRIVEWAY NEW CYCLE SEPARATOR CYCLE SEPARATOR TO BE REMOVED NEW DRIVEWAY JUDDER BAR OELINEATOR POSTS Image: A construction of the second of the sec
Client AUCKLAND T Project ROAD MARKI UPPER HARE ROADMARKI	SCHEME DESIGN RANSPORT ING IMPROVEMENTS SOUR DRIVE
A3 Project No: T22	2195 Drawing No: 205 Rev: B

Approved

24/01/2023

Scale 1:750 @ A3 SIZE

Date



Traffic Engineering Solutions Limited

JD BR

RB JD BR 01/23

01/23

RB

B SECOND ISSUE

A FIRST ISSUE

		DELINEATOR PUS	15	
	•	EXISTING SIGN		
1 States	•	NEW HAZARD MA	RKER	
	☆ {	STREETLIGHT / P	OWERPOLE	
	o 🛛	MANHOLE / SERV	ICE COVER	
		CATCHPIT		
		SCHEM	IE DE	SIGN
Client AUCKLAND T Project ROAD MARKI UPPER HARB ROADMARKIN	NG IMPF OUR DR	ROVEMENTS	S	
A3 Project No: T22	2195	Drawing No:	206	Rev: B

ED TRAFFIC LA	NE (3.2m)
STREET PARK	(ING (2.1m)

Approved

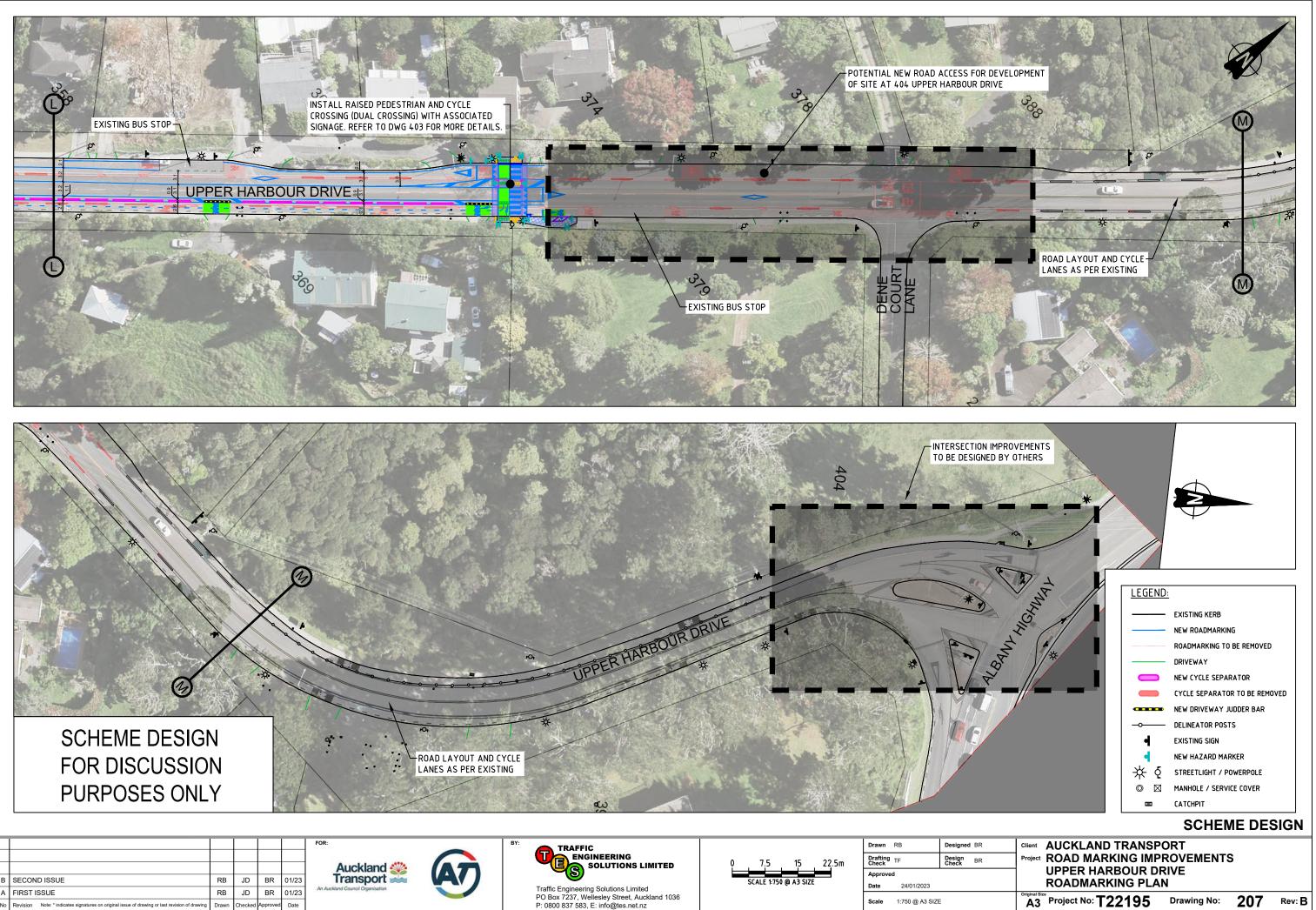
24/01/2023

Scale 1:750 @ A3 SIZE

Date

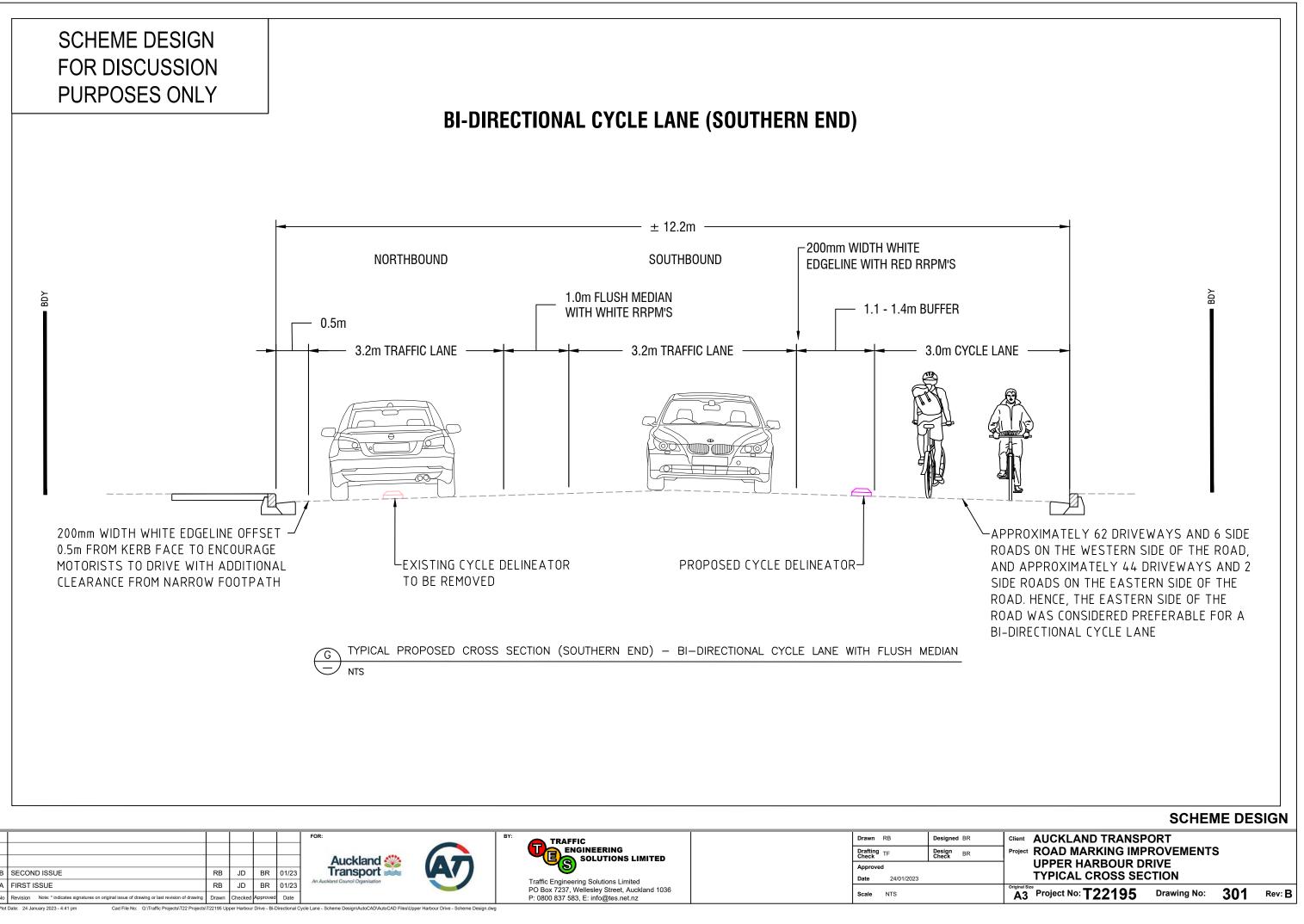
SCALE 1:750 @ A3 SIZE



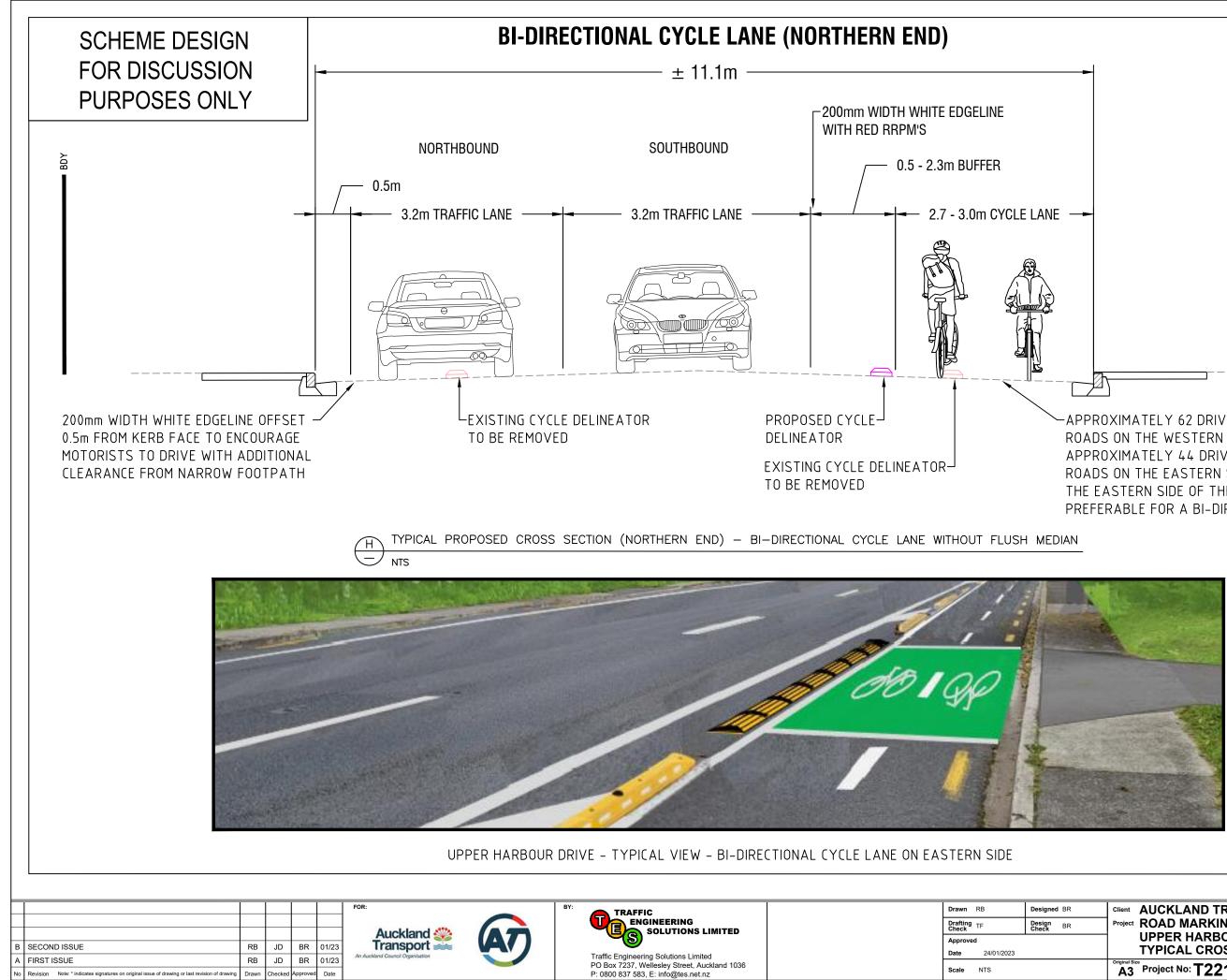


В	SECOND ISSUE	RB	JD	BR	01/23		•	SCALE 1:750 @ A3 SIZE	Do
Α	FIRST ISSUE	RB	JD	BR	01/23	An Auckland Council Organisation	Traffic Engineering Solutions Limited PO Box 7237, Wellesley Street, Auckland 1036	-	
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	d Date		P: 0800 837 583, E: info@tes.net.nz		Sca

Plot Date: 24 January 2023 - 4:41 pm Cad File No: G:\Traffic Projects\T22 Projects\T22195 Upper Harbour Drive - Bi-Directional Cycle Lane - Scheme Design\AutoCAD\AutoCAD Files\Upper Harbour Drive - Scheme Design



Plot	Date: 24 January 2023 - 4:41 pm	Cad File No:	G:\Traffic Projects\T22 Projects\	T22195 Upp	er Harbour D	Drive - Bi-D	irectional Cyd	cycle Lane - Scheme Design\AutoCAD\AutoCAD Files\Upper Harbour Drive - Scheme Design.dwg

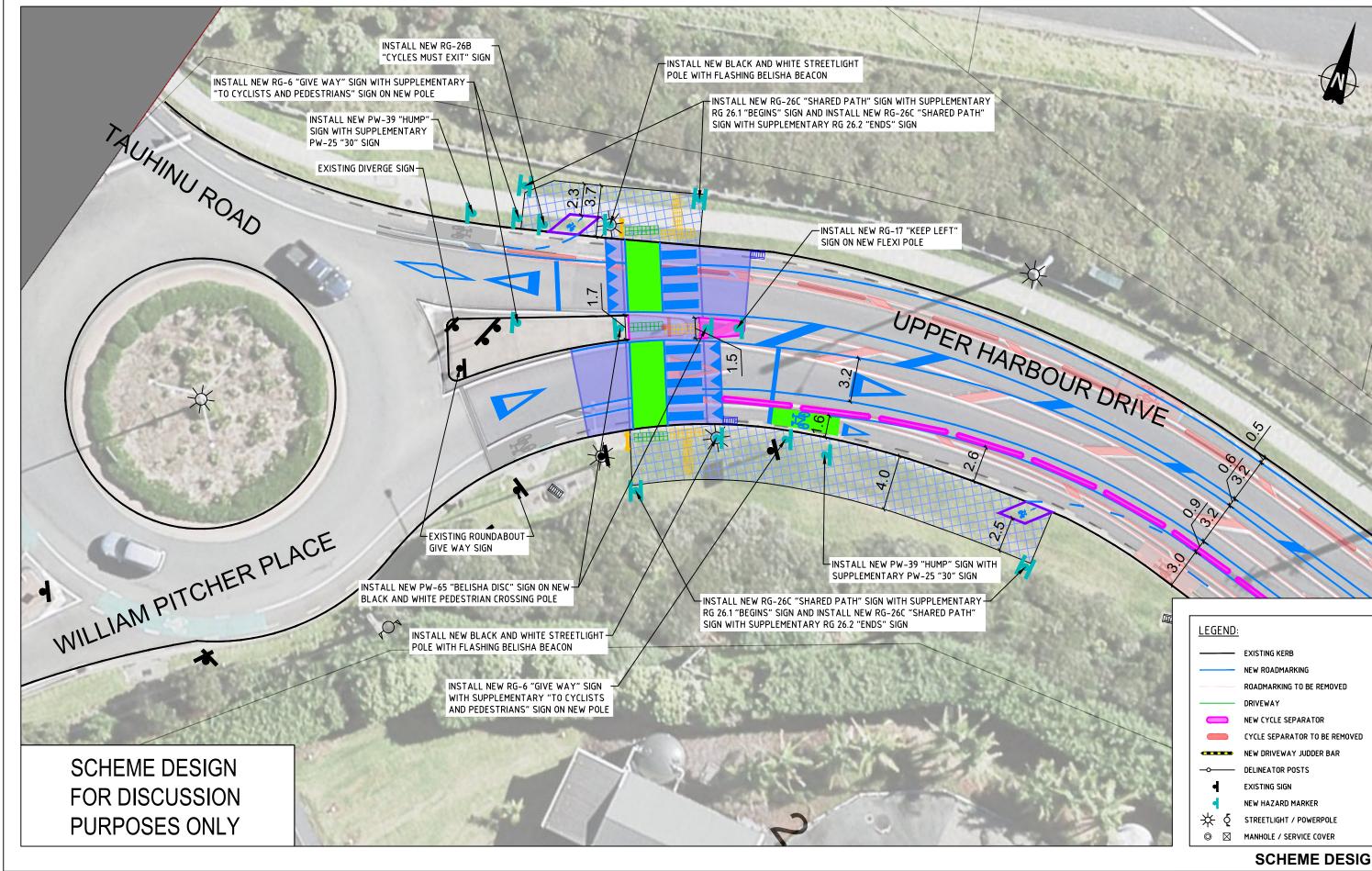


Client AUCKLAND TRANS	PORT									
	-	S								
UPPER HARBOUR DRIVE										
I I I I I I I I I I I I I I I I I I I	CTION									
A3 Project No: T22195	Drawing No:	302	Rev: B							
	Project ROAD MARKING IM UPPER HARBOUR D TYPICAL CROSS SE	Project ROAD MARKING IMPROVEMENTS UPPER HARBOUR DRIVE TYPICAL CROSS SECTION	Project ROAD MARKING IMPROVEMENTS UPPER HARBOUR DRIVE TYPICAL CROSS SECTION							

SCHEME DESIGN

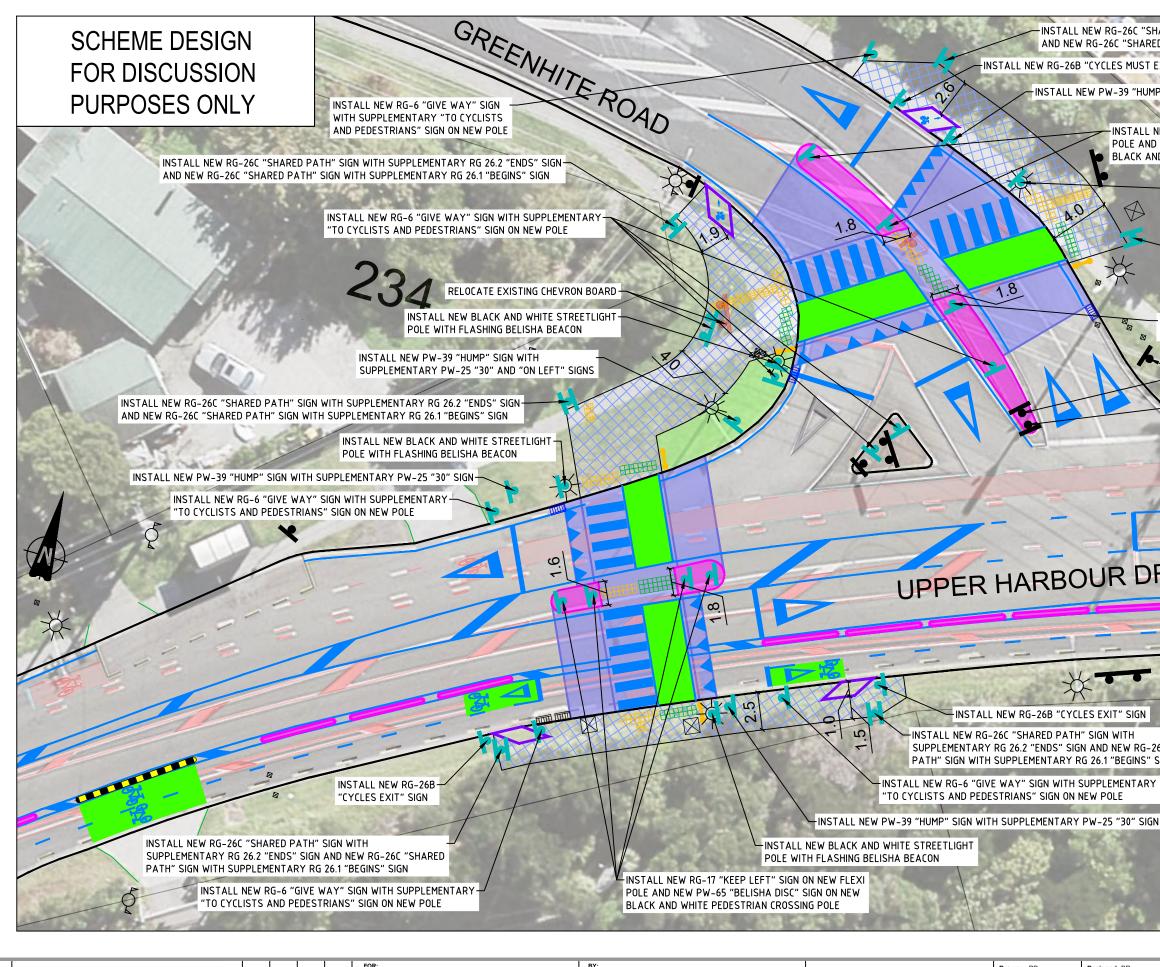
APPROXIMATELY 62 DRIVEWAYS AND 6 SIDE ROADS ON THE WESTERN SIDE OF THE ROAD, AND APPROXIMATELY 44 DRIVEWAYS AND 2 SIDE ROADS ON THE EASTERN SIDE OF THE ROAD. HENCE, THE EASTERN SIDE OF THE ROAD WAS CONSIDERED PREFERABLE FOR A BI-DIRECTIONAL CYCLE LANE

ğ



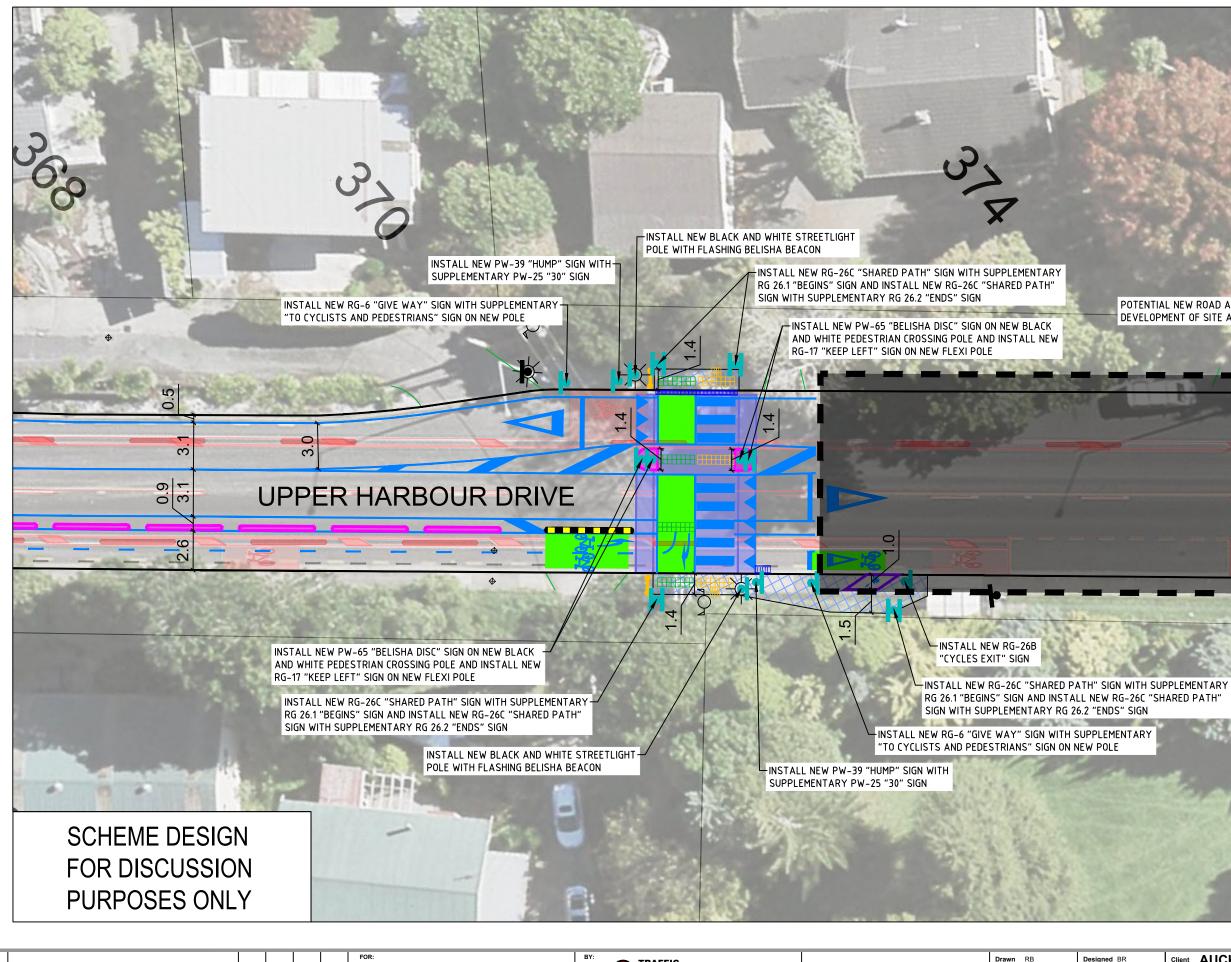
						FOR:				Drawn RB	Designed BR		
\vdash						Auckland Similar Auckland Council Organization	Augkland 🦇	Engineering Solutions Limited	0 2.5 5 7.5m	Drafting _{TF} Check	Design Check BR		
в	SECOND ISSUE	RB	JD	BR	01/23		Transport 💒		SCALE 1:250 @ A3 SIZE	Approved Date 24/01/2023			
A	FIRST ISSUE	RB	JD	BR	01/23			gansadon				Traffic Engineering Solutions Limited PO Box 7237, Wellesley Street, Auckland 1036	
	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing					ala Lana - Sahama Dasian) AutoCAD) AutoCAD Eileal Lin		P: 0800 837 583, E: info@tes.net.nz		Scale 1:250 @ A3 SIZ	E		

and the second se				
		DRIVEWAY		
		NEW CYCLE SEPAR	RATOR	
		CYCLE SEPARATO	R TO BE REMO	VED
3.2 A. C.		NEW DRIVEWAY J	UDDER BAR	
A Erstan		DELINEATOR POST	s	
	•	EXISTING SIGN		
1. 1. S. A.	•	NEW HAZARD MAR	RKER	
W.C.C.	₩ 5	STREETLIGHT / PO	OWERPOLE	
10 1 h h h	© ⊠	MANHOLE / SERVI	CE COVER	
		SCHEM	IE DE	SIGN
Client AUCKLAND T	RANSPC	RT		
Project ROAD MARKI			S	
				、
RAISED CROS	SOING PL	AN (SHEE	TTUF 3)
A3 Project No: T22	2195	Drawing No:	401	Rev: B



		L				FOR:			Drawn RB	Designed BR	
							Engineering solutions limited	0 2.5 5 7.5m	Drafting TF	Design Check BR	
									Approved	Glieck	
В	SECOND ISSUE	RB	JD	BR	01/23			SCALE 1:250 @ A3 SIZE	Date 24/01/2023		
A	FIRST ISSUE	RB	JD	BR	01/23	An Auckland Council Organisation	Traffic Engineering Solutions Limited PO Box 7237, Wellesley Street, Auckland 1036	-	Date 24/01/2023		
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	d Date		P: 0800 837 583, E: info@tes.net.nz		Scale 1:250 @ A3 SIZE		
Die											

	PLEMENTARY RG 26.2 "ENDS" SIGN MENTARY RG 26.1 "BEGINS" SIGN
EXIT" SIGN	LINTAKT KU 20.1 DEGING SIGN
1P" SIGN WITH SUPPLEMENTA	RX RW 25 "20" SIGN
IF SIGN WITH SOFFEENENTA	
NEW RG-17 "KEEP LEFT" SIGN D NEW PW-65 "BELISHA DISC" ND WHITE PEDESTRIAN CROSS	SIGN ON NEW
POLE WITH FLASHING	AND WHITE STREETLIGHT BELISHA BEACON
	-26C "SHARED PATH" SIGN
WITH SUPPLEMEN AND NEW RG-260	NTARY RG 26.2 "ENDS" SIGN C "SHARED PATH" SIGN WITH Y RG 26.1 "BEGINS" SIGN
-INSTALL NEW PW-65 "BELIS BLACK AND WHITE PEDESTR	
Ø	U. S.
	SIGN
	T SIGN
	0
3.2	
ю — п	
2.5	
RIVE C	0.0
0	
о О	
Same and	. B
	LEGEND:
Salar II.	
1	
26C "SHARED SIGN	ROADMARKING TO BE REMOVED
	DRIVEWAY
1	NEW CYCLE SEPARATOR
N	CYCLE SEPARATOR TO BE REMOVED
# 1	
1. 4	DELINEATOR POSTS EXISTING SIGN
ii.	
and the	○ ☑ MANHOLE / SERVICE COVER
	SCHEME DESIGN
Client AUCKLAND	
Project ROAD MARK	ING IMPROVEMENTS
UPPER HARE RAISED CRO	BOUR DRIVE DSSING PLAN (SHEET 2 OF 3)
Original Size	2195 Drawing No: 402 Rev: B



						FOR:			Drawn RB	Designed BR
						Auckland 🦇	ENGINEERING SOLUTIONS LIMITED	0 2.5 5 7.5m	Drafting Check TF	Design Check BR
в	SECOND ISSUE	RB	JD	BR	01/23	Transport KAT		SCALE 1:250 @ A3 SIZE	Approved	
А	FIRST ISSUE	RB	JD	BR	01/23	An Auckland Council Organisation	Traffic Engineering Solutions Limited PO Box 7237, Wellesley Street, Auckland 1036		Date 24/01/2023	
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date		P: 0800 837 583, E: info@tes.net.nz		Scale 1:250 @ A3 SIZ	E

ic Projects\T22 Projects\T22195 Upper Harbour Drive - Bi-Directional Cycle Lane - S neme Design\AutoCAD\AutoCAD Files\Upper Harbo e Design.dwg

	DRIVEWAY				
28 · · · · ·	0	NEW CYCLE SEPARATOR CYCLE SEPARATOR TO BE REMOVED			
Contractor PT					
CONTRACT SU		NEW DRIVEWAY JUDDER BAR			
and the second s	-0	DELINEATOR POSTS			
	4	EXISTING SIGN			
Contract of the second	4	NEW HAZARD MARKER			
	₩ 🤇	STREETLIGHT / POWERPOLE			
	o 🛛	MANHOLE / SERVICE COVER			
SCHEME DESIGN					
Client AUCKLAND TRANSPORT					
Project ROAD MARKING IMPROVEMENTS					
RAISED CROSSING PLAN (SHEET 3 OF 3)					
A3 Project No: T22	195	Drawing No:	403	Rev:	в

LEGEND: EXISTING KERB NEW ROADMARKING ROADMARKING TO BE REMOVED

POTENTIAL NEW ROAD ACCESS AND ROAD LAYOUT FOR DEVELOPMENT OF SITE AT 404 UPPER HARBOUR DRIVE