



Tauranga Transport Operations Centre

2023



Tauranga City



Another Busy YEAR for TTOC

- More Signals,
- More Cameras,
- More Stuff,
- More Staff 😊

New Camera Installations

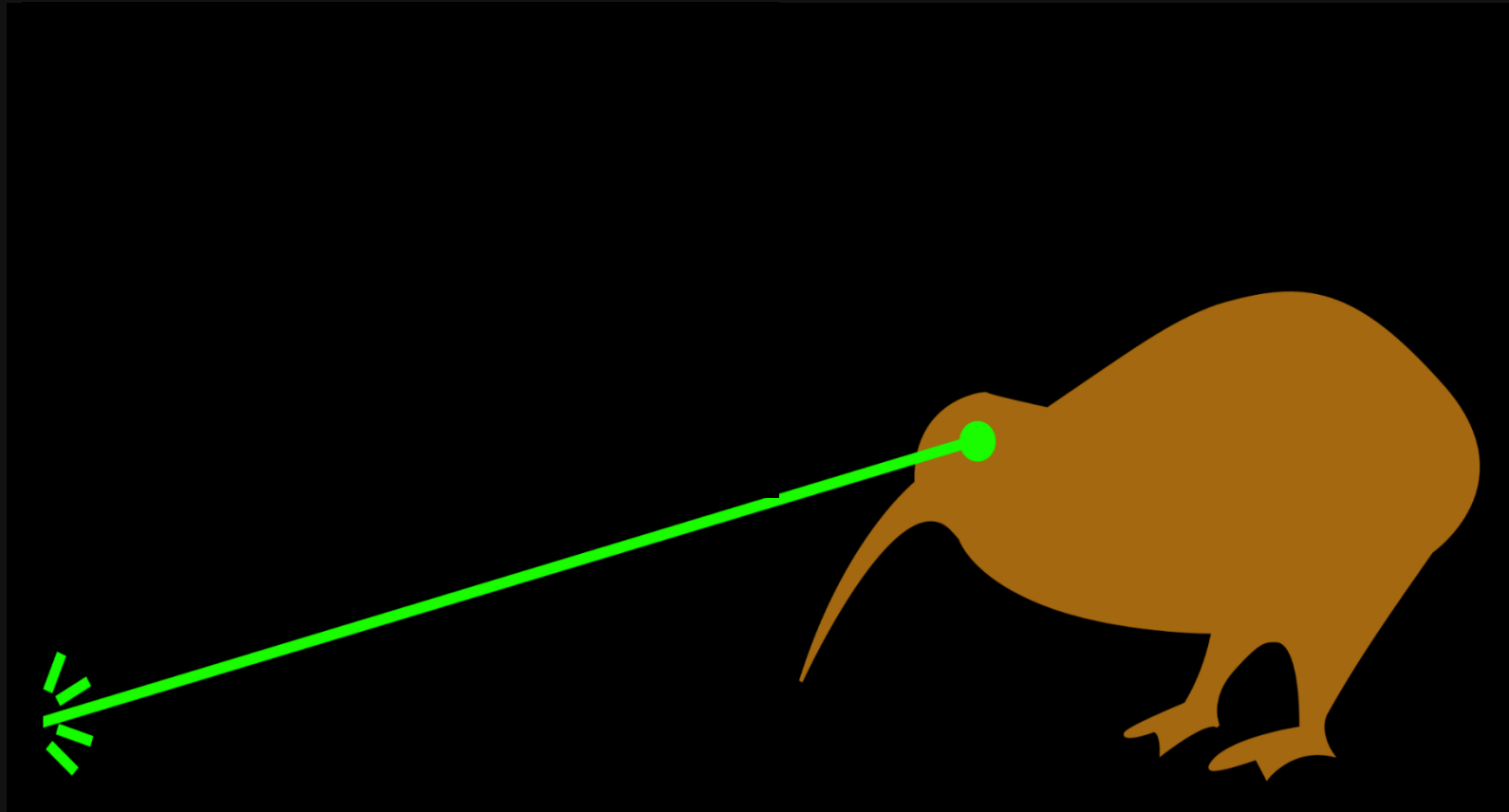
Dozens of new cameras installed at intersections, Pedestrian crossings, on bus routes and all places in between.



Big Brother is Watching You!



Traffic Signals



- **Six** new midblock crossings on Totara St and Cameron Rd
- **2 major intersections** rebuilt and converted to ELV
- **Bus Gates** introduced on Cameron Rd
- Rotorua Eastern Corridor (SH30) Improvements Stage 2



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BayLink Project

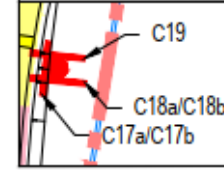
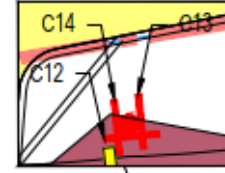


- **BAY Link** continues, 8 years and counting...
- Te Maunga Interchange now completed



EXTENT OF WORKS

BAYFAIR



C37a/C37b

C34a/C34b

C33

C31

C32a/C32b

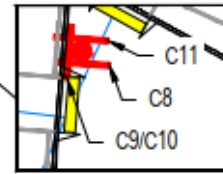
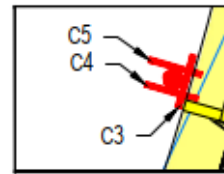
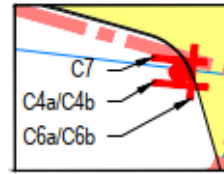
C35

C36

PALLISER PLACE

EVERSHAM ROAD

MAUNGANUI ROAD SH2



C15

C16

C9/C20

C0

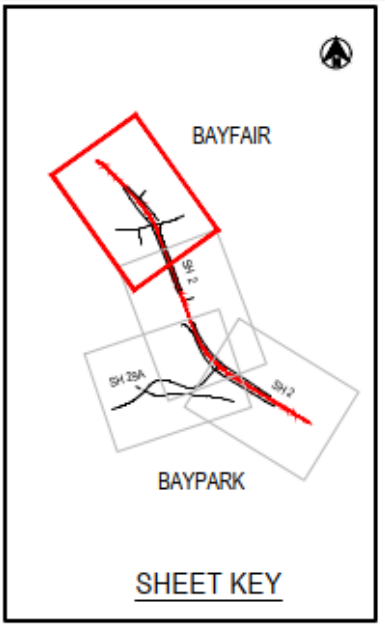
C1

C2

EXTENT OF WORKS

OWENS PLACE

OWENS PLACE



LEGEND

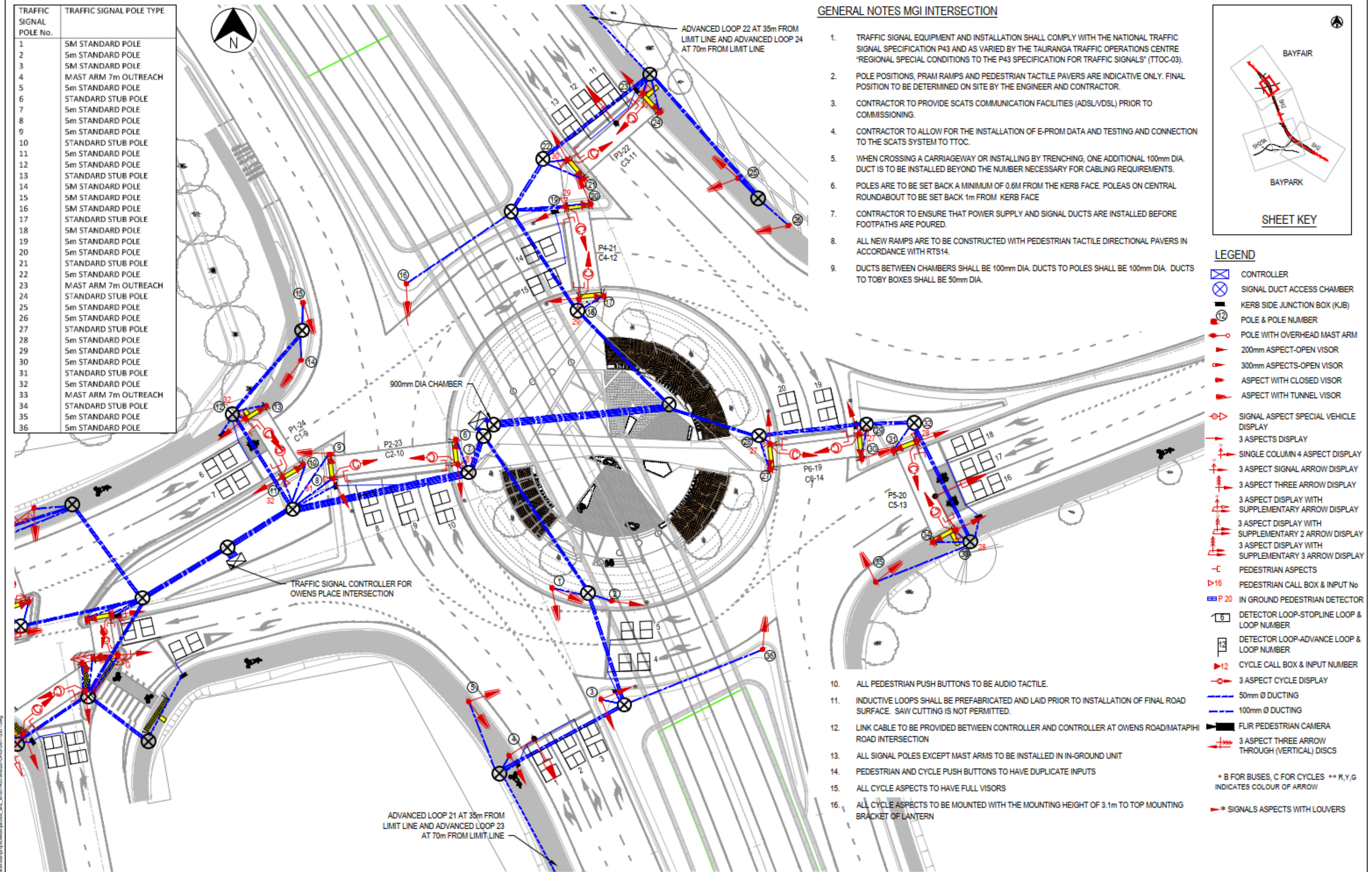
- DESIGNATION
- EXISTING CADASTRAL BOUNDARY
- FOOTPATH (1.8m WIDE)
- SHARED PATH (3.0m WIDE)
- FOOTPATH (3.0m WIDE)

NOTE

- REFER TO B2B-DRG-SL01-3341 FOR SIGN DETAILS.

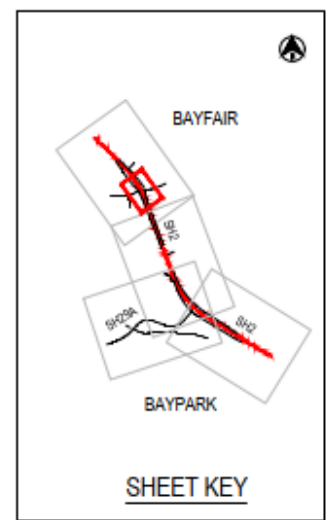
BAYPARK
DESTINATION
ON THIS SIDE
ONLY

TRAFFIC SIGNAL POLE No.	TRAFFIC SIGNAL POLE TYPE
1	5M STANDARD POLE
2	5m STANDARD POLE
3	5M STANDARD POLE
4	MAST ARM 7m OUTREACH
5	5m STANDARD POLE
6	STANDARD STUB POLE
7	5m STANDARD POLE
8	5m STANDARD POLE
9	5m STANDARD POLE
10	STANDARD STUB POLE
11	5m STANDARD POLE
12	5m STANDARD POLE
13	STANDARD STUB POLE
14	5M STANDARD POLE
15	5M STANDARD POLE
16	5M STANDARD POLE
17	STANDARD STUB POLE
18	5M STANDARD POLE
19	5m STANDARD POLE
20	5m STANDARD POLE
21	STANDARD STUB POLE
22	5m STANDARD POLE
23	MAST ARM 7m OUTREACH
24	STANDARD STUB POLE
25	5m STANDARD POLE
26	5m STANDARD POLE
27	STANDARD STUB POLE
28	5m STANDARD POLE
29	5m STANDARD POLE
30	5m STANDARD POLE
31	STANDARD STUB POLE
32	5m STANDARD POLE
33	MAST ARM 7m OUTREACH
34	STANDARD STUB POLE
35	5m STANDARD POLE
36	5m STANDARD POLE



GENERAL NOTES MGI INTERSECTION

1. TRAFFIC SIGNAL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE NATIONAL TRAFFIC SIGNAL SPECIFICATION P43 AND AS VARIED BY THE TAURANGA TRAFFIC OPERATIONS CENTRE "REGIONAL SPECIAL CONDITIONS TO THE P43 SPECIFICATION FOR TRAFFIC SIGNALS" (TTOC-03).
2. POLE POSITIONS, PRAM RAMPS AND PEDESTRIAN TACTILE PAVERS ARE INDICATIVE ONLY. FINAL POSITION TO BE DETERMINED ON SITE BY THE ENGINEER AND CONTRACTOR.
3. CONTRACTOR TO PROVIDE SCATS COMMUNICATION FACILITIES (ADSL/VDSL) PRIOR TO COMMISSIONING.
4. CONTRACTOR TO ALLOW FOR THE INSTALLATION OF E-PROM DATA AND TESTING AND CONNECTION TO THE SCATS SYSTEM TO TTCC.
5. WHEN CROSSING A CARRIAGEWAY OR INSTALLING BY TRENCHING, ONE ADDITIONAL 100mm DIA. DUCT IS TO BE INSTALLED BEYOND THE NUMBER NECESSARY FOR CABLING REQUIREMENTS.
6. POLES ARE TO BE SET BACK A MINIMUM OF 0.6M FROM THE KERB FACE. POLES ON CENTRAL ROUNDABOUT TO BE SET BACK 1m FROM KERB FACE
7. CONTRACTOR TO ENSURE THAT POWER SUPPLY AND SIGNAL DUCTS ARE INSTALLED BEFORE FOOTPATHS ARE POURED.
8. ALL NEW RAMPS ARE TO BE CONSTRUCTED WITH PEDESTRIAN TACTILE DIRECTIONAL PAVERS IN ACCORDANCE WITH RTS14.
9. DUCTS BETWEEN CHAMBERS SHALL BE 100mm DIA. DUCTS TO POLES SHALL BE 100mm DIA. DUCTS TO TOBY BOXES SHALL BE 50mm DIA.
10. ALL PEDESTRIAN PUSH BUTTONS TO BE AUDIO TACTILE.
11. INDUCTIVE LOOPS SHALL BE PREFABRICATED AND LAID PRIOR TO INSTALLATION OF FINAL ROAD SURFACE. SAW CUTTING IS NOT PERMITTED.
12. LINK CABLE TO BE PROVIDED BETWEEN CONTROLLER AND CONTROLLER AT OWENS ROAD/MATAPIHI ROAD INTERSECTION
13. ALL SIGNAL POLES EXCEPT MAST ARMS TO BE INSTALLED IN IN-GROUND UNIT
14. PEDESTRIAN AND CYCLE PUSH BUTTONS TO HAVE DUPLICATE INPUTS
15. ALL CYCLE ASPECTS TO HAVE FULL VISORS
16. ALL CYCLE ASPECTS TO BE MOUNTED WITH THE MOUNTING HEIGHT OF 3.1m TO TOP MOUNTING BRACKET OF LANTERN



LEGEND

- CONTROLLER
- SIGNAL DUCT ACCESS CHAMBER
- KERB SIDE JUNCTION BOX (KJB)
- POLE & POLE NUMBER
- POLE WITH OVERHEAD MAST ARM
- 200mm ASPECT-OPEN VISOR
- 300mm ASPECTS-OPEN VISOR
- ASPECT WITH CLOSED VISOR
- ASPECT WITH TUNNEL VISOR
- SIGNAL ASPECT SPECIAL VEHICLE DISPLAY
- 3 ASPECTS DISPLAY
- SINGLE COLUMN 4 ASPECT DISPLAY
- 3 ASPECT SIGNAL ARROW DISPLAY
- 3 ASPECT THREE ARROW DISPLAY
- 3 ASPECT DISPLAY WITH SUPPLEMENTARY ARROW DISPLAY
- 3 ASPECT DISPLAY WITH SUPPLEMENTARY 2 ARROW DISPLAY
- 3 ASPECT DISPLAY WITH SUPPLEMENTARY 3 ARROW DISPLAY
- PEDESTRIAN ASPECTS
- PEDESTRIAN CALL BOX & INPUT No
- IN GROUND PEDESTRIAN DETECTOR
- DETECTOR LOOP-STOPLINE LOOP & LOOP NUMBER
- DETECTOR LOOP-ADVANCE LOOP & LOOP NUMBER
- CYCLE CALL BOX & INPUT NUMBER
- 3 ASPECT CYCLE DISPLAY
- 50mm Ø DUCTING
- 100mm Ø DUCTING
- FLIR PEDESTRIAN CAMERA
- 3 ASPECT THREE ARROW THROUGH (VERTICAL) DISCS
- * B FOR BUSES, C FOR CYCLES ** R,Y,G INDICATES COLOUR OF ARROW
- * SIGNALS ASPECTS WITH LOUVERS

F	09/0720	GK	LG	LW	100% ISSUE
No	DATE	DESIGN CHECK	DESIGN REVIEW	APPROVED	REVISIONS & ISSUES
1	1:250 @ A1				
2	1:500 @ A3				

 WAKA KOTAHĪ	 CONTRACTOR	 DESIGNER	 SCALE: 1:500 (A3)	 STATUS: 100% ISSUE	CLIENT: NZ TRANSPORT AGENCY PROJECT: BAYPARK TO BAYFAIR LINK (BAY LINK) PROJECT NUMBER: 2/09-024/603	DRAWN: GK DESIGNED: MP	DRAWING CHECK: LG DESIGN REVIEW: LW	APPROVED: LW	TITLE: TRAFFIC SIGNALS MGI INTERSECTION PLAN DRAWING No: B2B-DRG-SI01-3301 REV: F
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9031 Bayfair RAB C215



16-08-2023 09:51:50

12823

7021 Te Ngae Tles (Lynmore)



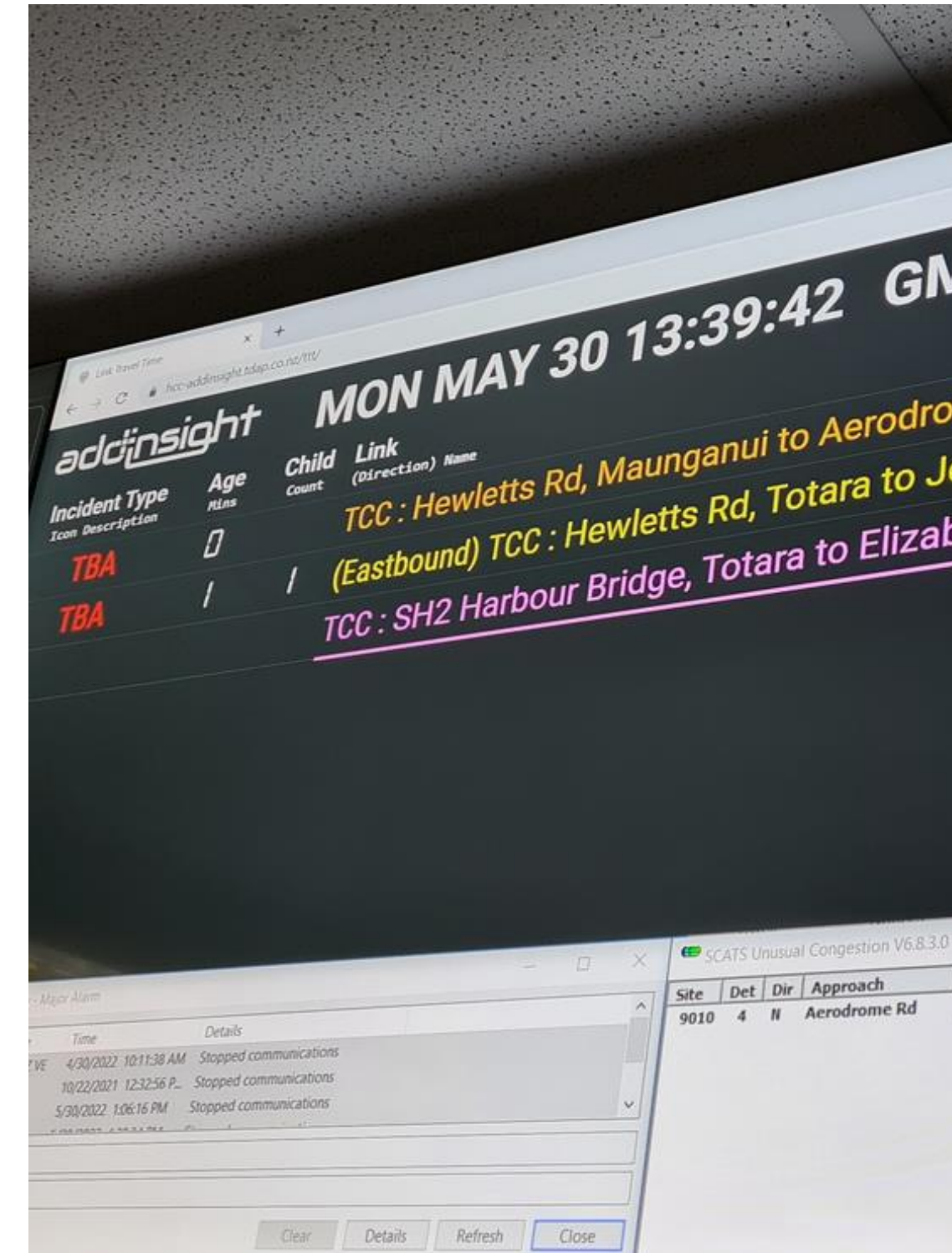
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49138

addinsight

More Bluetooth Sensors
commissioned, adding to
our **real-time** network
monitoring and optimising
capabilities. We now have
a dedicated wall monitor
running in **TMC mode**.

addinsight
TRAFFIC INTELLIGENCE SYSTEM





Luxriot Video Management System

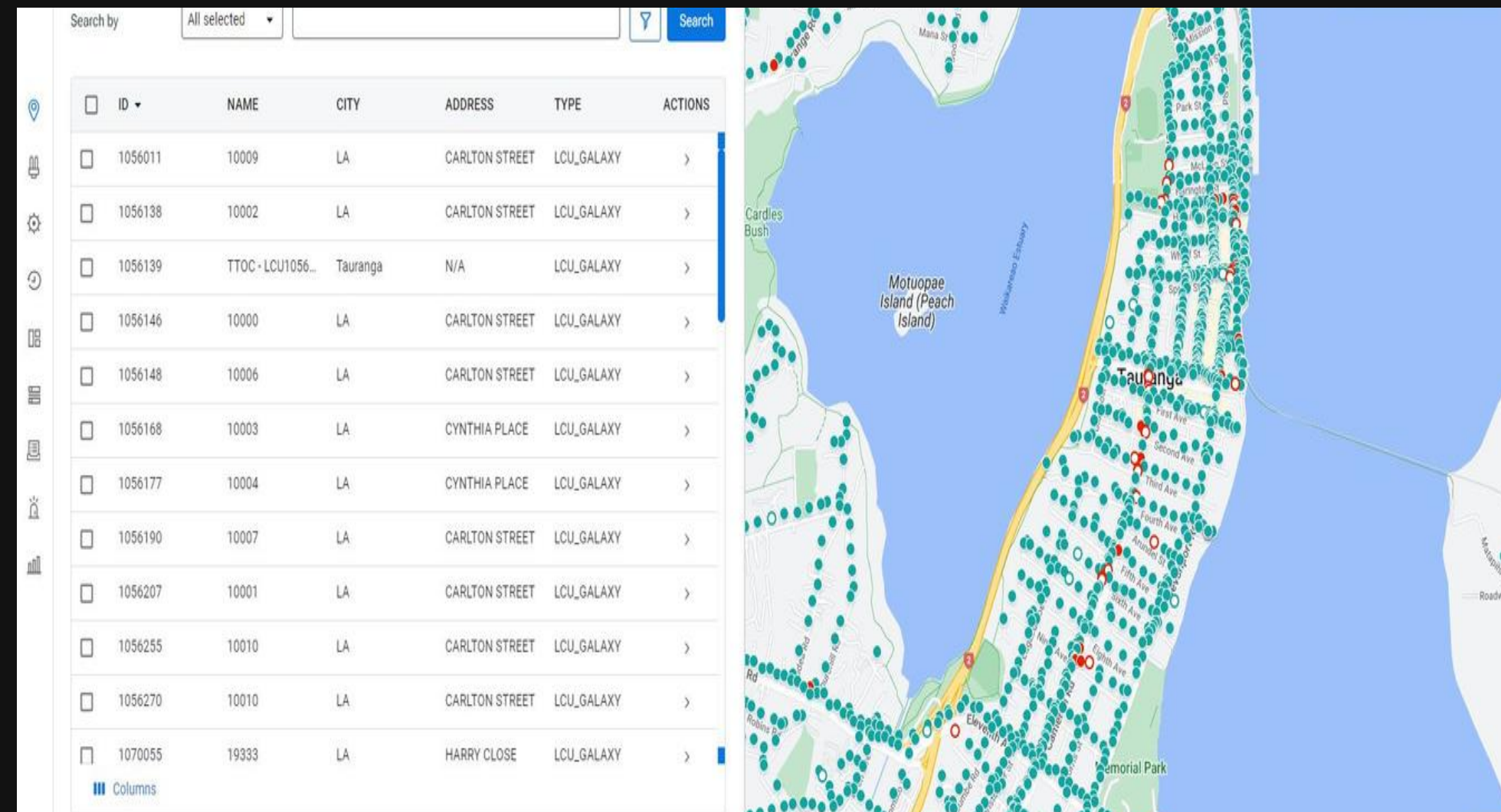
We are currently transitioning to a new **Video Management System, LUXRIOT EVO** to Monitor & Control our 950 CCTV Cameras.

Better analytical tools will assist Operators to **proactively enforce** parking, illegal vehicle movements and reduce the time it takes to carry out reviews.

Street Lighting

Using our **Bright City** Street light Management software, our contractor now has **real-time** visibility of faults often responding **before** they are reported by the **public**.

We are providing a higher level of service and reducing the need for costly **night patrols**



Digital Parking Signage

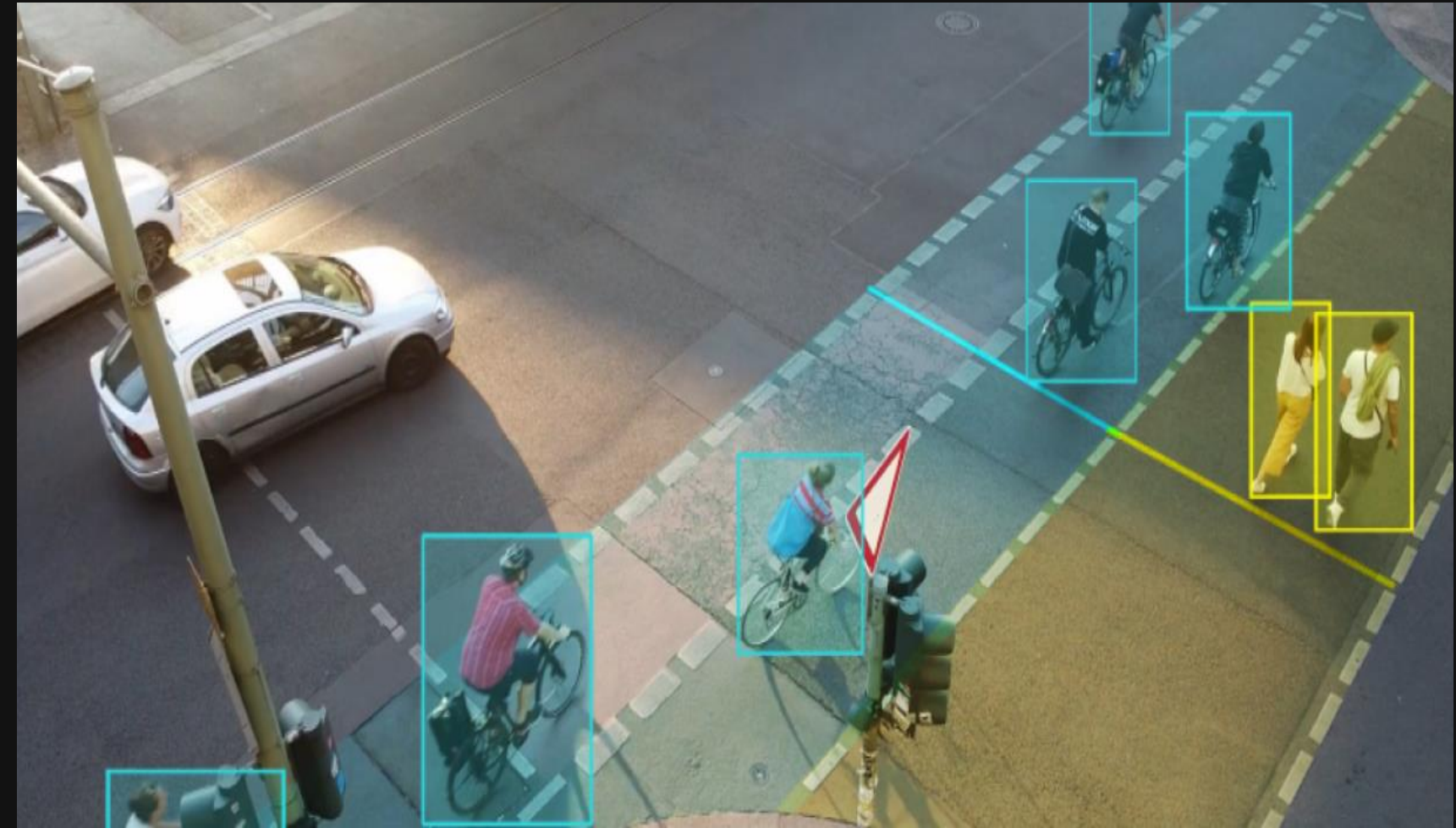
Four new Billboard style VMS signs were commissioned this month after a two-year battle with **bureaucracy**.

Yes they looks like something from the 1980s but they will provide motorists with real-time parking availability in the CBD.



Pathway Video Counters

We now have a Total of **30** Pathway AI sensors installed to Count and Classify **Micromobility** and Pedestrian Traffic in the **CBD** and outer shopping precincts.



CROSSWIRE Digital Radio Dispatch Upgrade

TTOC has installed a new Digital Radio Dispatch System from **X-Works**.

Easy access to all radio channels which are **recorded** and available for instant replay has been invaluable.

Start Time	Caller	Interface	Duration
18/07/2023 12:25:30	Unknown [Unknown]	Police 1	4.6s
18/07/2023 12:25:16	Unknown [Unknown]	Police 1	10.2s
18/07/2023 12:25:10	Unknown [Unknown]	Police 1	3.6s
18/07/2023 12:23:34	Unknown [Unknown]	Police 1	2.2s
18/07/2023 12:22:28	Unknown [Unknown]	Police 1	2.5s
18/07/2023 12:21:01	Unknown [Unknown]	Police 1	1.5s
18/07/2023 12:20:57	Unknown [Unknown]	Police 1	2.8s
18/07/2023 12:20:55	Unknown [Unknown]	Police 1	2.2s
18/07/2023 12:20:48	Unknown [Unknown]	Police 1	1.9s





Interesting Numbers for 2023

TT0C assisted police with having

1000 Persons **ARRESTED**.

250 Vehicles **IMPOUNDED**.

3000 Vehicles unlawfully using the
Hewletts Road Bus Lanes sent
infringement notices.



Other Video Footage sent to Police for enforcement ...

94 Drivers using a mobile device.

135 Occupants **NOT** wearing a seatbelt.

59 Drivers running **Red-Lights**.

319 Other driving offences, the majority
being illegal movements at congested
intersections.

Failing to Stop **Pursuits**



TTOC assisted the Police with tracking of **193** fleeing vehicles or pursuits.

87 Persons were **ARRESTED** as a result of TTOC's assistance.

