

Checklist

CCTV Camera and Associated Infrastructure Attachments to Victrack Owned Tram Poles Project Design and Construction Checklist

Date / /

General Items to be addressed

Community/Other Issues

Advice to VicTrack as to community objections, privacy concerns or any other issues that are to be considered in the review of the application Yes

CCTV locations

Have all other options been considered in relation to location of CCTV cameras Yes

Elements of Design required to be considered and included on each design drawing submitted to VicTrack for review

Compliance with relevant standards Yes

- Electrical Safety (Installations) Regulations 2009
- VicTrack Standards, Guidelines or design and construction requirements for the attachment of CCTV Cameras and associated infrastructure to VicTrack tram poles

No modifications to tram pole structure Yes

Design to ensure that there is no cutting out, drilling, welding or modification to the tram pole

Pole integrity Yes

- Certification as to structural integrity of tram pole
 - existing conditions;
 - additional load on the tram pole for CCTV and associated hardware and electrical conduits

Location of existing assets/services Yes

- All tram and third party assets to be depicted on the design drawings including:
 - Clearances from catenary wires
 - Existing tram assets
 - Victrack telecommunication conduits (if any)
 - Electronic or static signs
 - Third parties tram pole attachments (ie signs, banners, conduits, wires)

Make Ready Work including removal, modification or relocation of existing tram or third party assets Yes

Included on the design drawing details of any existing pole attachments requiring removal, modification or relocation as a result of proposed works including spans, street signs, conduits, antennas, batons etc.

CCTV type and ancillary components Yes

- CCTV camera type and specifications
- antenna type and specifications
- antenna arm to be hinged to allow for tram pole maintenance
- fuse
- isolation switch
- conduits/cabling

Use of approved conduits/brackets Yes

- all conduits attached to a VicTrack tram pole to be steel or material approved by VicTrack and Yarra Trams
- all equipment to be attached by steel bands
- hinged or shorter brackets may be required to maintain access for overhead equipment for maintenance

Electricity Connection – confirmation from electricity authority that power can be supplied to the pole and details of power connections (i.e. connection & metering requirements, connection type, costs / difficulties with connection) Yes

RF Antennas Height Yes

- to be mounted at 5 m or less unless otherwise agreed up by VicTrack and Yarra Trams
 - clearance from oversized vehicles
 - protruding attachments mounted above VicRoads standard vehicle height limits
 - protruding attachments to be attached to the building side of pole

Civil Works

Dial before you Dig or MOCS undertaken Yes

Details of crew and equipment for works Yes

Details of civil works Yes

- excavation
- footpath
- road reserve reinstatement
- installation of underground conduits or overhead cables

Notes Yes

All construction notes as required by Victrack Standard D.19 to be incorporated on the design (refer to sample design drawing for CCTV camera attachment)

Construction Methodology – It is important to consider the construction methodology up front. This information is not required by VicTrack but will be required by Yarra Trams

Construction methodology

Is project to be undertaken by Yarra Trams on behalf of the applicant No Yes

Internal or subcontracted crew No Yes

- Yarra Trams spotter may be required on site at all times during the works Yes
- Traffic Management Plan
- SWMS, JSEA, Site Safety Plan and all other documentation
- Required by Yarra Trams
- Type, size, insulation and maximum height of equipment
- Equipment should be approved for live lines electrical work

Construction schedule Approximate schedule of works, e.g. number of hours/days for works to be completed. Yes

Permit to Work Yes

- Working within 5 metres of Victrack telecommunications apply for a Permit to Work from VicTrack Network Operations Centre
- Permit to Work from Yarra Trams Control Room.

Electrical Certification Yes

- Certificate of Electricity Safety (CER) issued by a competent and suitably qualified person
- CER to be forwarded to VicTrack within 7 days of completion of works

Additional Yarra Trams requirements

Procedures for maintenance – Provide training material, RF Isolation procedures and/or emergency procedures for working on or adjacent to CCTV infrastructure Yes