Design Access Statement

1.0. Introduction

Transport for Wales (TfW) are rolling out 'Pay as You Go' (PAYG) travel across their network.
PAYG allows ticketless travel for commuters between TfW's Wales and Borders stations.
'PAYG' equipment allows commuters to use Debit/Credit cards to 'tap on' at the start their journey, and then 'tap off' on conclusion of their journey, which ensures that only the correct fare is debited from the commuters account.

To facilitate 'PAYG' a commuter requires associated PAYG equipment, to be available at the station they begin their journey (to 'tap on') and at the station that their journey concludes (to 'tap off').

PAYG equipment consists of ticket gates and/or ticket validators.
As part of the rollout of PAYG, existing ticket gates are being replaced with new upgraded gates with PAYG functionality and for stations that do not fall into category for the requirement of a ticket gate line, ticket validators are being installed.

The aim of the initiative is to help streamline station services and to provide greater opportunities for joined up travel around the rail network.

As part of the scheme, Wrexham General station has been earmarked for 3No. new ticket validators (PVAL's). 2No. to serve Platform 1 entrances and 1No. to serve Platform 4 entrance.

2.0. Proposal

The proposal is to:

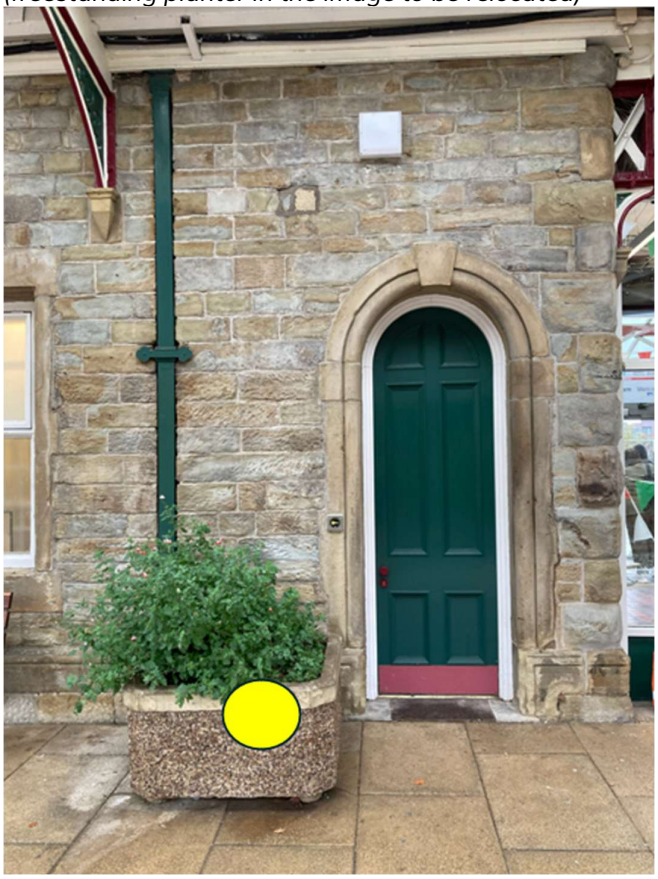
- Install 1No. new post mounted ticket validator on platform 1 near to the main station entrance (PVAL 001).
- Install 1No. new post mounted ticket validator on platform 1 adjacent to the night gate entrance (PVAL 002).
- Install 1No. new post mounted ticket validator on platform 4 adjacent to the bottom of the ramped entrance to platform. (PVAL 003).

The locations have been chosen to cover all entrances exits, including the stations night gate, which becomes operational during out of hours periods at the station.

<u>Platform 1 locations:</u>

PVAL '001'

Proposed post mounted validator on platform, 1 near to main station entrance indicated by yellow circle (freestanding planter in the image to be relocated)



PVAL ‘002’

Proposed post mounted validator on platform near to station ‘night gate’ entrance, indicated by yellow circle



<u>Platform 4 location:</u>

PVAL ‘003’

Proposed post mounted validator on platform near to station ramp entrance, indicated by yellow circle.



3.0 Existing Installations

There are currently no ticket validators or 'Pay as you go' facilities installed at Wrexham General station.

4.0 Proposed Installation

PVAL '001'
The proposal is to post mount the ticket validator as follows:

- The validator head, will be installed on a purpose built validator post.
- The post is secured to a new concrete foundation which is proposed to be installed as part of the works.
- Cable supply for the validator is via new, below ground cable ducting which rises through the new concrete foundation into the new validator post.
- The new concrete base will be installed, flush to existing finished platform level, with existing paving slabs being lifted for the concrete foundation installation and then cut and re-laid flush around the new concrete foundation.

Cabling for the new validator is proposed as follows:

- New validator cabling to exit existing telecoms cabinet in ticket office and be installed within existing cable containment at high level in ceiling void within the station building.
- Cable to exit station building within existing cable containment into the station canopy.
- From existing station canopy containment (galvanised steel trunking – colour matched to canopy). It is proposed to tap off with a new 20mm galvanised steel cable conduit back to station building at high level.
- New cable conduit to penetrate into the station building (into café storage room) and drop to low level on store room wall.
- New conduit to penetrate back out of station building at low level (just above platform F.F.L) and turn 90 degrees to meet new below ground cable ducting.
- New cable ducting from station building, beneath platform to rise in the centre of the new validator post concrete foundation (as described above). Existing paving slabs to be lifted for the installation of new cable ducting and be re-laid once ducts have been installed

Refer to site layout drawing and proposed cable containment elevation drawing for further information. These are included with the 'Listed Building Consent' application on the planning portal.

PVAL '002'
The proposal is to post mount the ticket validator as follows:

- The validator head, will be installed on a purpose built validator post.
- The post is secured to a new concrete foundation which is proposed to be installed as part of the works.
- Cable supply for the validator is via new, below ground cable ducting which rises through the new concrete foundation into the new validator post.
- The new concrete base will be installed, flush to existing finished platform level, with existing paving slabs being lifted for the concrete foundation installation and then cut and re-laid flush around the new concrete foundation.

Cabling for the new validator is proposed as follows:

- New validator cabling to exit existing telecoms cabinet in platform 1 switch room and be installed within existing cable containment within switch room which rises to high level in switch room adjacent to footbridge.
- Cable to exit switch room in existing containment adjacent to footbridge that rises to high level to existing station canopy containment.
- Cable to be installed in existing station canopy containment.
- From existing station canopy containment (galvanised steel trunking – colour matched to canopy). It is proposed to tap off with a new 20mm galvanised steel cable conduit back to station building at high level. It is proposed that the new conduit will be secured to an existing timber fascia board at high level (adjacent to night gate entrance), before turning 90 degrees and dropping to platform F.F.L. down station façade (adjacent to rainwater downpipe to limit visual impact).
- New cable ducting from station building, beneath platform to rise in the centre of the new validator post concrete foundation (as described above). Existing paving slabs to be lifted for the installation of new cable ducting and be re-laid once ducts have been installed

Refer to site layout drawing and proposed cable containment elevation drawing for further information. These are included with the 'Listed Building Consent' application on the planning portal.

PVAL '003'

The proposal is to post mount the ticket validator as follows:

- The validator head, will be installed on a purpose built validator post.
- The post is secured to a new concrete foundation which is proposed to be installed as part of the works.
- Cable supply for the validator is via new, below ground cable ducting which rises through the new concrete foundation into the new validator post.
- The new concrete base will be installed, flush to existing finished platform level, with existing bitumen platform being cut and re-laid flush around the new concrete foundation.

Cabling for the new validator is proposed as follows:

- New validator cabling to exit existing telecoms cabinet on platform and be installed within existing, below ground cable ducting, to an access chamber opposite the proposed new PVAL 003 location.
- New cable ducting from existing access chamber, to rise in the centre of the new validator post concrete foundation (as described above). Existing bitumen platform covering will be cut and excavated for installation, before being re-laid once ducts have been installed.

Refer to site layout drawing and proposed cable containment elevation drawing for further information. These are included with the 'Listed Building Consent' application on the planning portal.

5.0 Remedial Works

Proposed remedial works at the stations are proposed as follows.

- PVAL's 001 & 002 - Existing Paving slabs in the area's allocated for the new PVAL's shall be lifted and retained. The retained slabs shall be cut and re-laid flush around the news PVAL concrete foundations, once cured.
- PVAL 003 – Existing bitumen floor covering to be cut and removed for concrete foundation installation. New bitumen surface to be re-laid flush around new concrete foundation, once cured.
- It is proposed that new cable containment added in the station canopy shall be powder coated to colour match the heritage colour within the station canopy (to match existing CMS installations in the canopy).

6.0 Example images of validator arrangements

<u>PVAL head and post mount</u>
Example Image below, shows the stainless steel post mount secured to a concrete foundation and the validator head secured to the post mount.

The PVAL is supplied via a cable within a cable duct which rises through the new concrete foundation.

Refer to design drawing
21015-CGR-WLS-WRX-DRG-PVAL-000001 for further installation details for post mounted PVALs.

