

Wrexham General station: Listed Building Consent Application Heritage Impact Statement



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1.0
Introduction

As leaseholders Transport for Wales Rail Limited (TfWRL) are about to undertake a programme of improvement works at Wrexham General station.

The works are part of a general improvement initiative across the Wales and Borders network and are conceived to provide a better customer experience when using stations.

The scope of the works to the Station Information and Security Systems are as follows and are described in detail later in this document:

- Renewal of the existing Closed Circuit Television System (CCTV)
- Renewal of the existing Customer Information System (CIS)
- Renewal of the existing Public Address System (PA)

Relevant planning policy to the proposed works are:

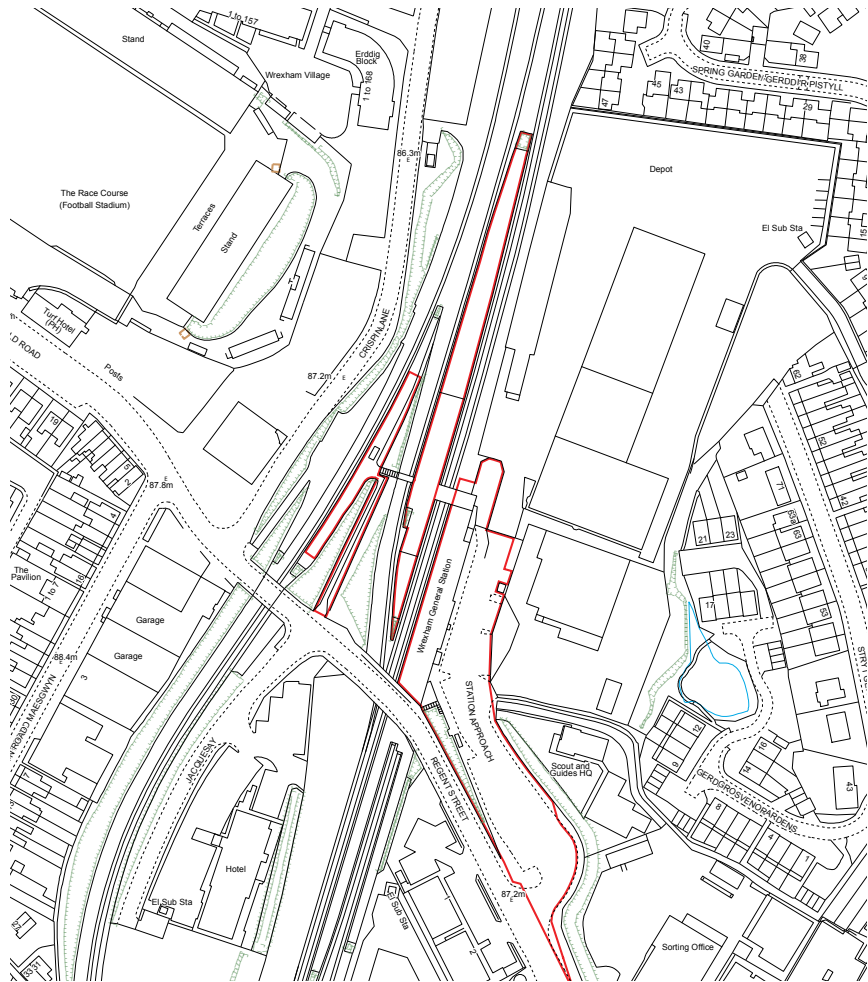
- Planning Policy Wales (Edition 11, February 2021)
- Welsh Government Technical Advice Note 12: Design March 2016
- Welsh Government Technical Advice Note 24: The Historic Environment May 2017
- Planning (Listed Buildings and Conservation Areas) (Wales) Regulations 2012 as amended by Planning (Listed Buildings and Conservation Areas) (Wales) (Amendment No. 2) Regulations 2017



2.0
Location

Wrexham General station is located to the west of the town centre.

The main station building is accessed from Regent Street and Station Approach, and platform 4 can also be accessed directly from Regent Street.



2.0

Wrexham General station

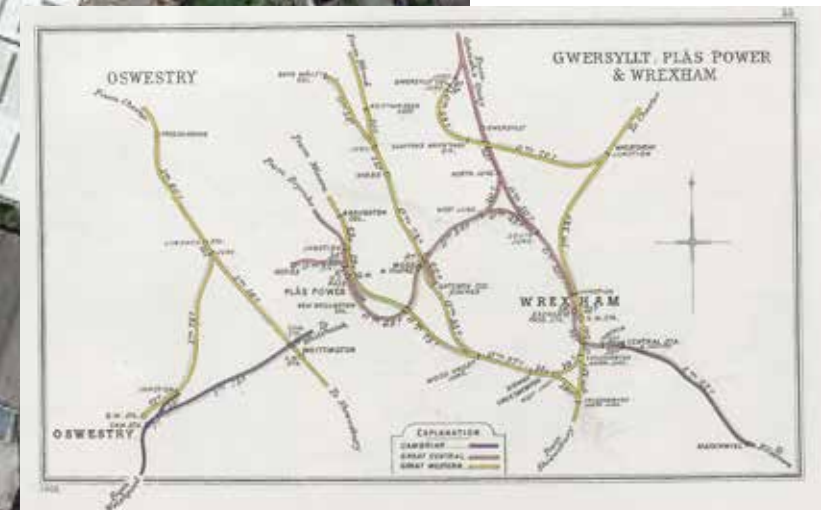
Wrexham General Station is a Grade II Listed Building (Cadw I.D. 1855) identifying it as "...of special interest which justify every effort being made to preserve" (Cadw, 2018).

The building was Listed for architectural interest on 5th September 1986, designated as "a good example of Great Western Railway station architecture, which, with its fine canopy, survives intact."

Cadw describe the station architecturally as, "Roughly coursed and squared stone with ashlar dressings and fishscale slate roof. Symmetrical single storeyed entrance range with outer pavilion blocks with wrought iron brattishing surmounted steep roofs. Central entrance in roll-moulded archway, flanked by cross-pane windows. Cornices over similar windows in pavilions (one now a doorway). Long range of offices, waiting rooms etc. Continuous to right, with similar openings. Platform side has roll moulded arches to doorways and 4-pane fixed glazing to windows" (Cadw records accessed 10/07/2020).

GWR station building, built c1875 as a replacement for the original provided by Henry Robertson for the Shrewsbury and Chester Railway Company, formed in 1846, and absorbed by the GWR in 1854. Later extensions and enlargement of platforms were carried out from 1909-12.

Formerly 'Wrexham Exchange' platform 4 became part of Wrexham General in 1981.



2.0
Wrexham General station today

Wrexham General station provides regular train services to a number of towns including Chester and Shrewsbury and is used annually by an estimated 530,000 passengers with this number anticipated to increase in the future.



3.0
Outline description of the proposed works

The proposed scope of works at Wrexham General station is as follows:

- Complete redesign and renewal of the station Public Address system
- Complete redesign and renewal of the station Closed Circuit Television (CCTV) system
- Renewal of the station Customer Information System (CIS)
This is to include replacement of the existing displays as well as provision of four new displays as follows:
 - A new Summary of Departure display on the south elevation of Platforms’ 2 and 3 waiting room.
 - New Summary of Departure displays on Platforms 1 and 4.
 - A large promotional, marketing and safety Thin-Film Transistor (TFT) screen (non-rail services) in the ticket office

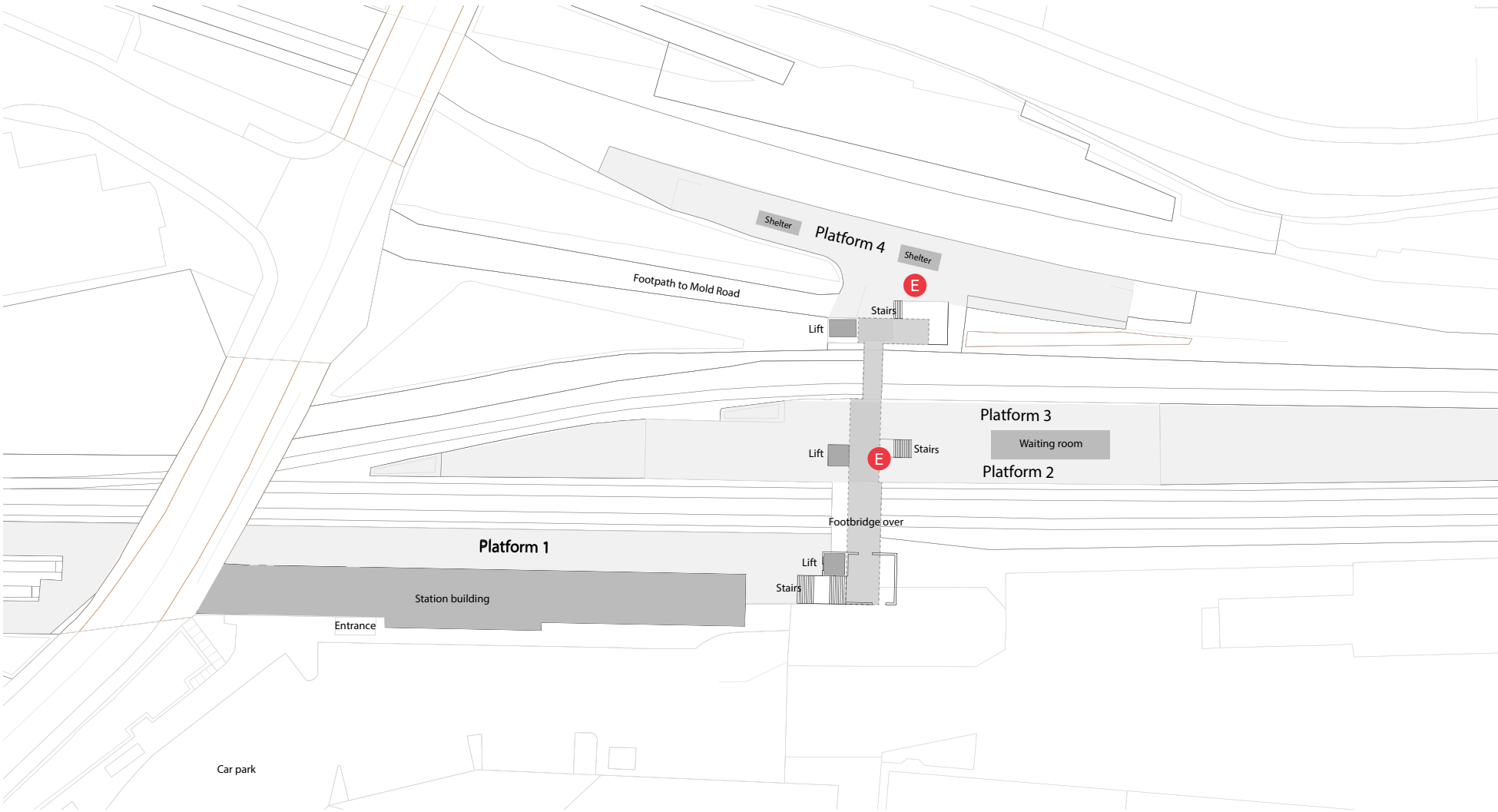
To facilitate the works two new equipment cabinets are required, one on Platform 4 and one on Platforms 2 and 3 **E** on the plan.

For the installation of sub surface cabling and ducting, existing finishes will be carefully removed and put back e.g the paving flags on Platforms 2 and 3.

Surface cabling will be sensitively installed to cause minimum penetration to the historic fabric, using existing routes where possible. Clamp fixings will be utilised wherever possible and any mechanical fixings located on mortar/joints.

Redundant equipment, cabling and conduits will be carefully removed and any affected building fabric will be made good in accordance with the Methodology document which forms part of this submission.

Locations and details of each system are illustrated in the following sections.

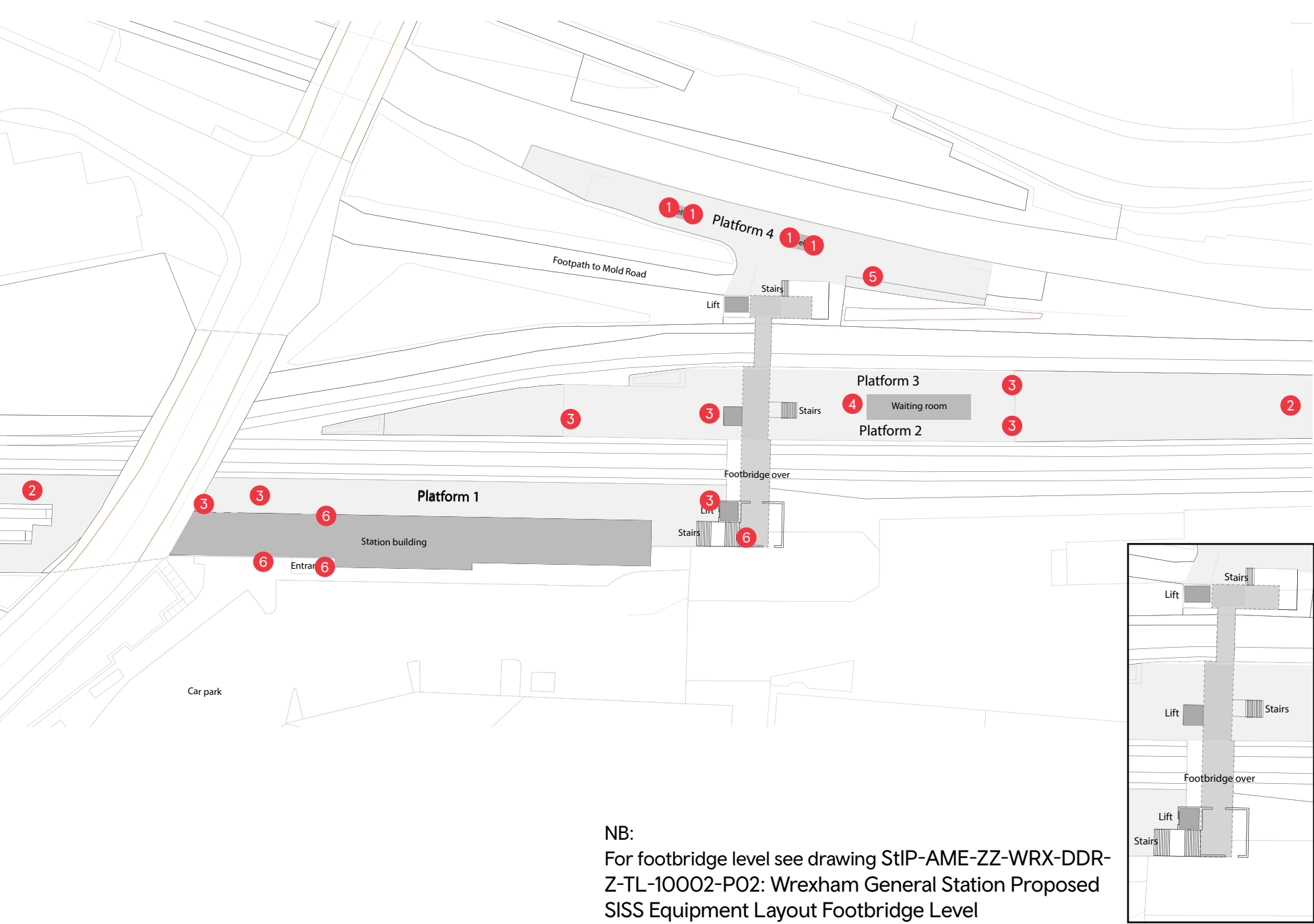


For details of the small power provision and distribution see drawing numberStIP-AME-ZZ-WRX-DDR-E-ME-000003-P02:
Wrexham General Station Platforms 1-4 Proposed Telecoms Small Power

4.1

Summary of proposed upgrade to the existing CCTV system

See drawings:
StIP-AME-ZZ-WRX-DDR-Z-TL-10001-P03: Wrexham General Station Proposed CCTV & CIS Equipment Layout Platform Level; StIP-AME-ZZ-WRX-DDR-Z-TL-10002-P02: Wrexham General Station Proposed SISS Equipment Layout Footbridge Level; StIP-AME-ZZ-WRX-DDR-Z-TL-10011-P03: Wrexham General Station Telecoms Cable Route Diagram; StIP-AME-ZZ-WRX-DDR-Z-TL-10012-P03: Wrexham General Station Proposed Telecoms Civils works; StIP-AME-ZZ-WRX-DDR-Z-TL-10013-P03: Wrexham General Station Telecoms Civils Standard Details



Key:

- 1 New dome cameras in waiting shelters
- 2 New post mounted box camera on new post
- 3 New canopy mounted box camera
- 4 New wall mounted box camera
- 5 New post mounted box camera on existing post
- 6 New dome camera

NB:
For footbridge level see drawing StIP-AME-ZZ-WRX-DDR-Z-TL-10002-P02: Wrexham General Station Proposed SISS Equipment Layout Footbridge Level

4.1.1

Summary of proposed upgrade to the existing CCTV system

Equipment

Wrexham County Borough Council
pre-application advice:

Looking at the documents it seems that the proposed works would be acceptable in principle as they look to minimise the appearance of the cabling and disguise it where it can be. Obviously the works are required at the station to ensure it can be fully utilised and give the public the necessary information so they are justified. The works do appear to use the existing systems where appropriate and minimise any further works to the listed building.

Current proposals:

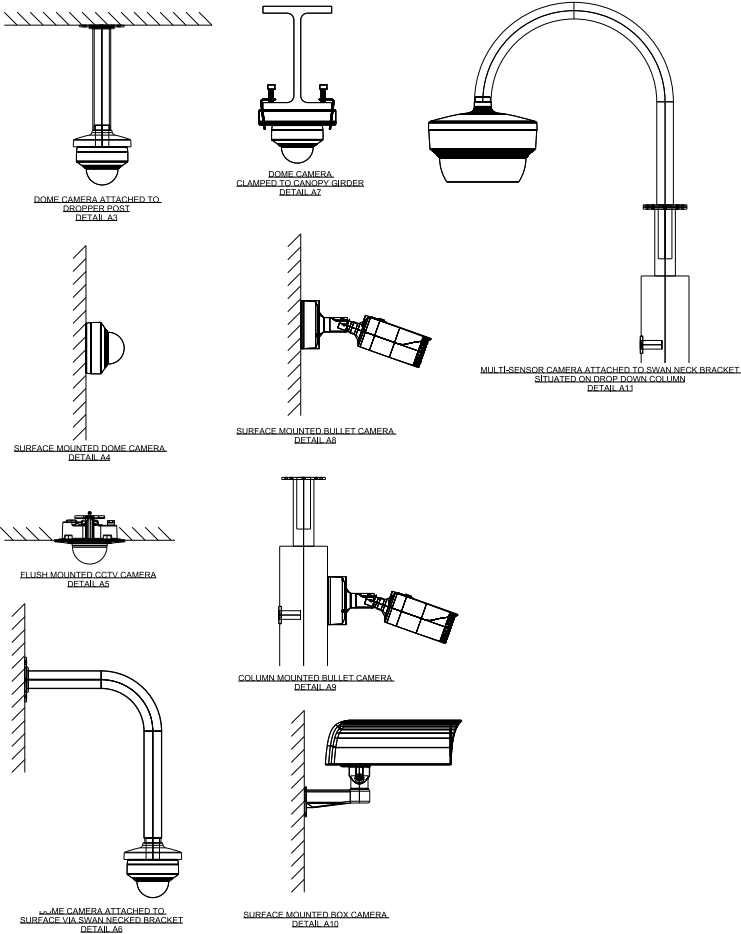
Two camera types are proposed, 'box' and 'dome' illustrated here along with typical fixing methods.



Proposed box cameras



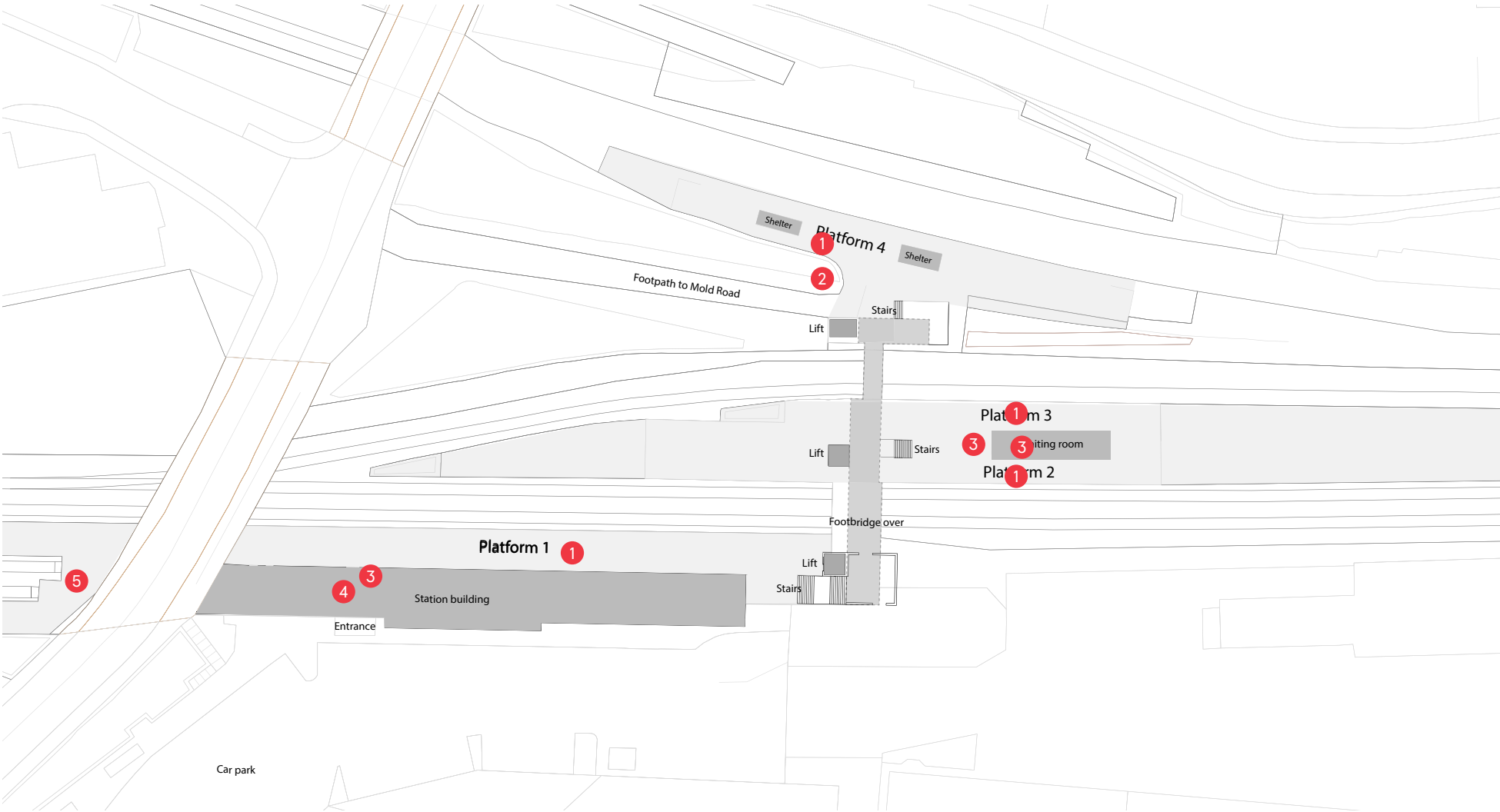
Proposed dome camera



4.2

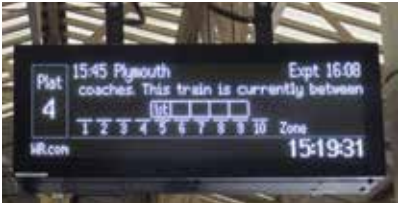
Summary of proposed upgrade to the existing Customer information system

See drawings:
StIP-AME-ZZ-WRX-DDR-Z-TL-10001-PO3: Wrexham General Station Proposed CCTV & CIS Equipment Layout Platform Level; StIP-AME-ZZ-WRX-DDR-Z-TL-10002-PO2; StIP-AME-ZZ-WRX-DDR-Z-TL-10011-PO3: Wrexham General Station Telecoms Cable Route Diagram; StIP-AME-ZZ-WRX-DDR-Z-TL-10012-PO3: Wrexham General Station Proposed Telecoms Civils works; StIP-AME-ZZ-WRX-DDR-Z-TL-10013-PO3: Wrexham General Station Telecoms Civils Standard Details



Key:

- 1 New next train indicator screens on existing fixings
- 2 New back to back summary of departures screens on new post
- 3 New wall mounted summary of departures screen
- 4 New wall mounted media and information screen
- 5 New column mounted summary of departures screen



Next train indicator



Summary of departures (landscape)



Media and information



Summary of departures (portrait)

4.2.1
Summary of proposed upgrade to the existing Customer information system

Images

Wrexham County Borough Council
pre-application advice:

Looking at the documents it seems that the proposed works would be acceptable in principle as they look to minimise the appearance of the cabling and disguise it where it can be. Obviously the works are required at the station to ensure it can be fully utilised and give the public the necessary information so they are justified. The works do appear to use the existing systems where appropriate and minimise any further works to the listed building.

Current proposals:

The images opposite illustrate the proposed screen locations.



Platform 1 Summary of departures display



Platform 2/3 Summary of departures display



Ticket office Media display



Platform 4 Summary of departures display



Platform 2/3 waiting room Summary of departures display

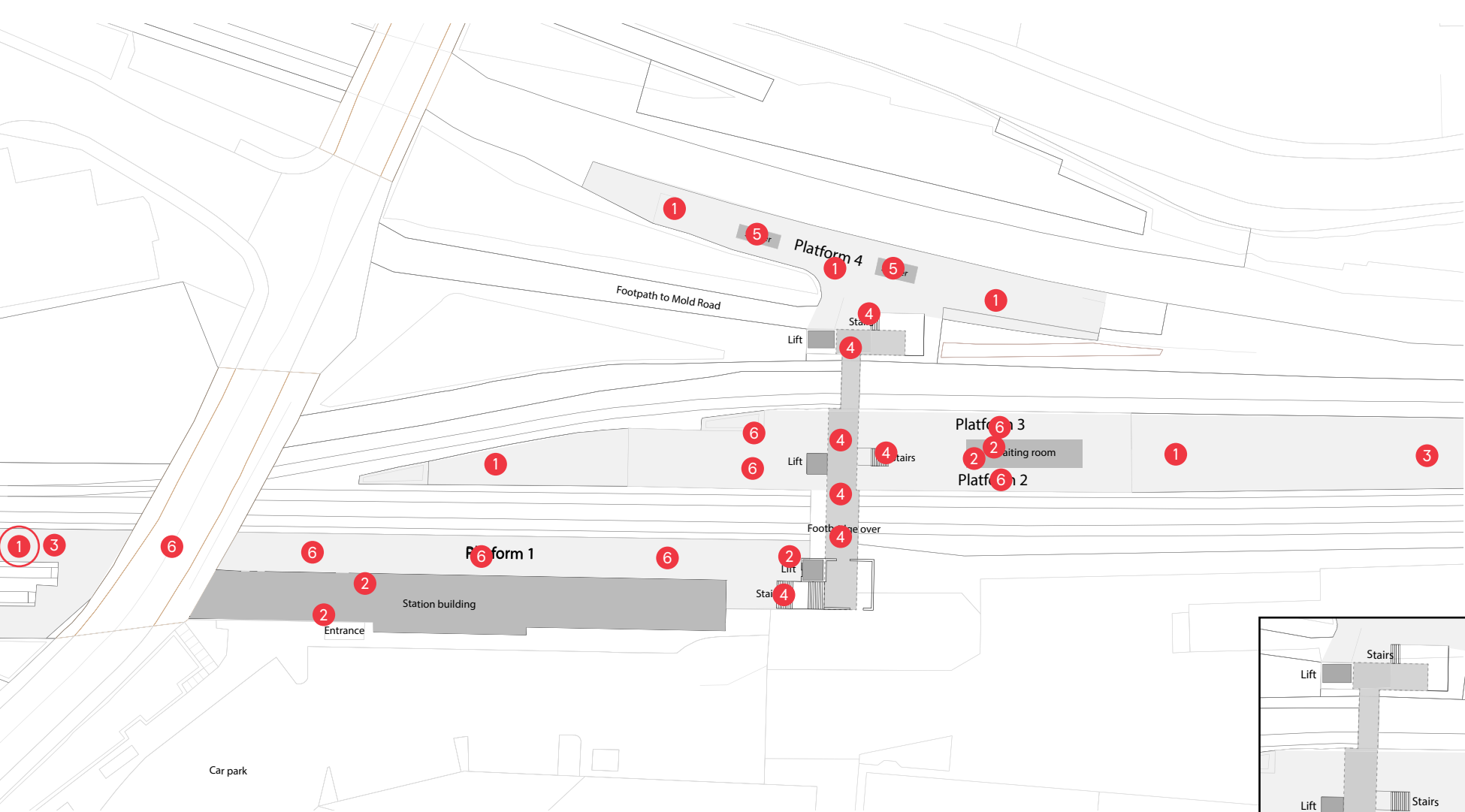


Ticket office Summary of departures display

4.3

Summary of proposed upgrade to the existing public address system

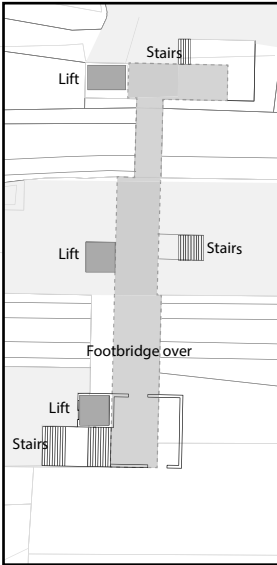
See drawings:
StIP-AME-ZZ-WRX-DDR-Z-TL-10009-P04: Wrexham General Station Proposed Speaker Layout; StIP-AME-ZZ-WRX-DDR-Z-TL-10011-P03: Wrexham General Station Telecoms Cable Route Diagram;
StIP-AME-ZZ-WRX-DDR-Z-TL-10012-P03: Wrexham General Station Proposed Telecoms Civils works; StIP-AME-ZZ-WRX-DDR-Z-TL-10013-P03: Wrexham General Station Telecoms Civils Standard Details



Key:

- 1 New column mounted speakers on new column
 - 2 New wall mounted speakers
 - 3 New column mounted speakers on shared CCTV columns
 - 4 New roof suspended speakers on footbridge
 - 5 New shelter speakers
 - 6 New canopy suspended speakers
- Two additional columns for new PA speakers are under consideration for platform 1 to cover the middle and end of the platform

NB:
For footbridge level see drawing StIP-AME-ZZ-WRX-DDR-Z-TL-10009-P04: Wrexham General Station Proposed Speaker Layout



4.3.1 Summary of proposed upgrade to the existing public address system

Equipment

Wrexham County Borough Council pre-application advice:

Looking at the documents it seems that the proposed works would be acceptable in principle as they look to minimise the appearance of the cabling and disguise it where it can be. Obviously the works are required at the station to ensure it can be fully utilised and give the public the necessary information so they are justified. The works do appear to use the existing systems where appropriate and minimise any further works to the listed building.

Current proposals:

Two types of speaker are proposed, bracket mounted and wall mounted.

Typical fixing methods are also illustrated.

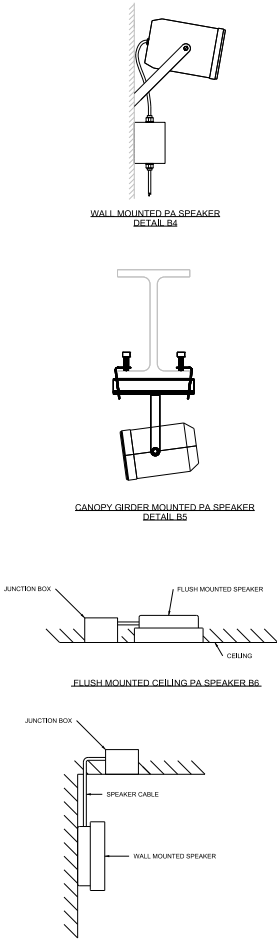
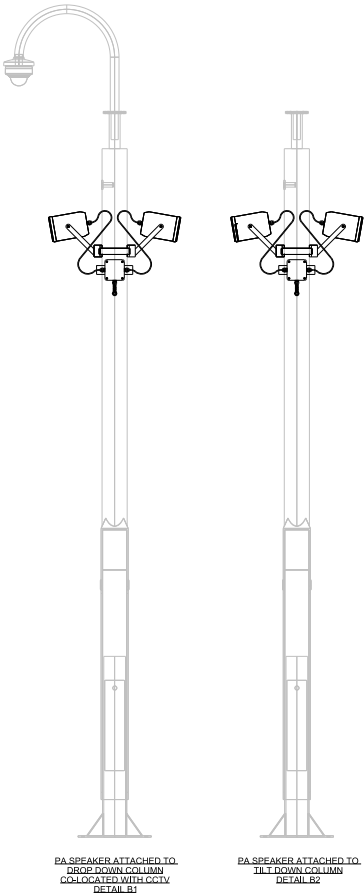
The new posts on platforms 2 and 3 will be finished in heritage colours to match the existing lighting columns (green bases and cream posts).



Bracket mounted speaker



Wall mounted speaker



4.4
Summary of proposed cable routes affecting the historic fabric

See drawing:
StIP-AME-ZZ-WRX-DDR-Z-TL-10011-PO3: Wrexham General Station Telecoms Cable Route Diagram

Wrexham County Borough Council
pre-application advice:

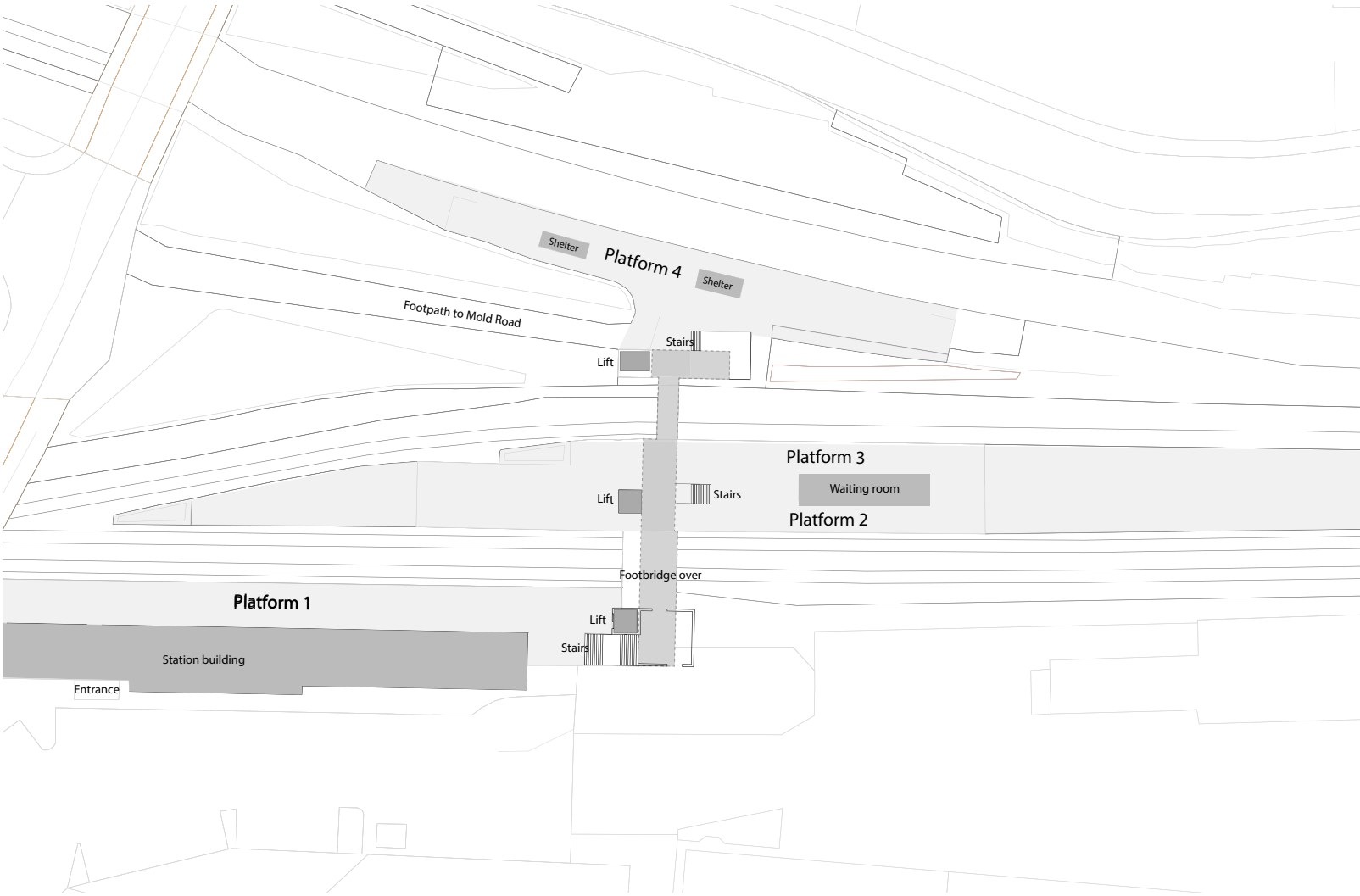
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Current proposals:

We have described our methodology for platforms 1, 2 and 3 and the station buildings affected as we do not consider platform 4 to be of historic interest, subject to confirmation by Wrexham County Borough Council.

A combination of high level and below ground cable routes will be required to facilitate the installation of the new equipment.

Where cables are below ground in the instance of platforms 2 and 3, the existing paving flags will be carefully taken up and relaid.



4.4.1

Summary of proposed cable routes affecting the historic fabric:

Platforms 2 and 3 location key

See drawing:
StIP-AME-ZZ-WRX-DDR-Z-TL-10011-PO3: Wrexham General Station Telecoms Cable Route Diagram

Wrexham County Borough Council
pre-application advice:

Looking at the documents it seems that the proposed works would be acceptable in principle as they look to minimise the appearance of the cabling and disguise it where it can be. Obviously the works are required at the station to ensure it can be fully utilised and give the public the necessary information so they are justified. The works do appear to use the existing systems where appropriate and minimise any further works to the listed building.

Current proposals:

It's proposed to run high level cabling any cabling will be clamped to the existing structure for ease of future reinstatement and minimum impact on the historic fabric.
All cables will be hidden from view where ever possible.
Note that there is a requirement from Network Rail that all cable conduits must be accessible.
The proposed cable runs are indicated on the images in the following two pages.

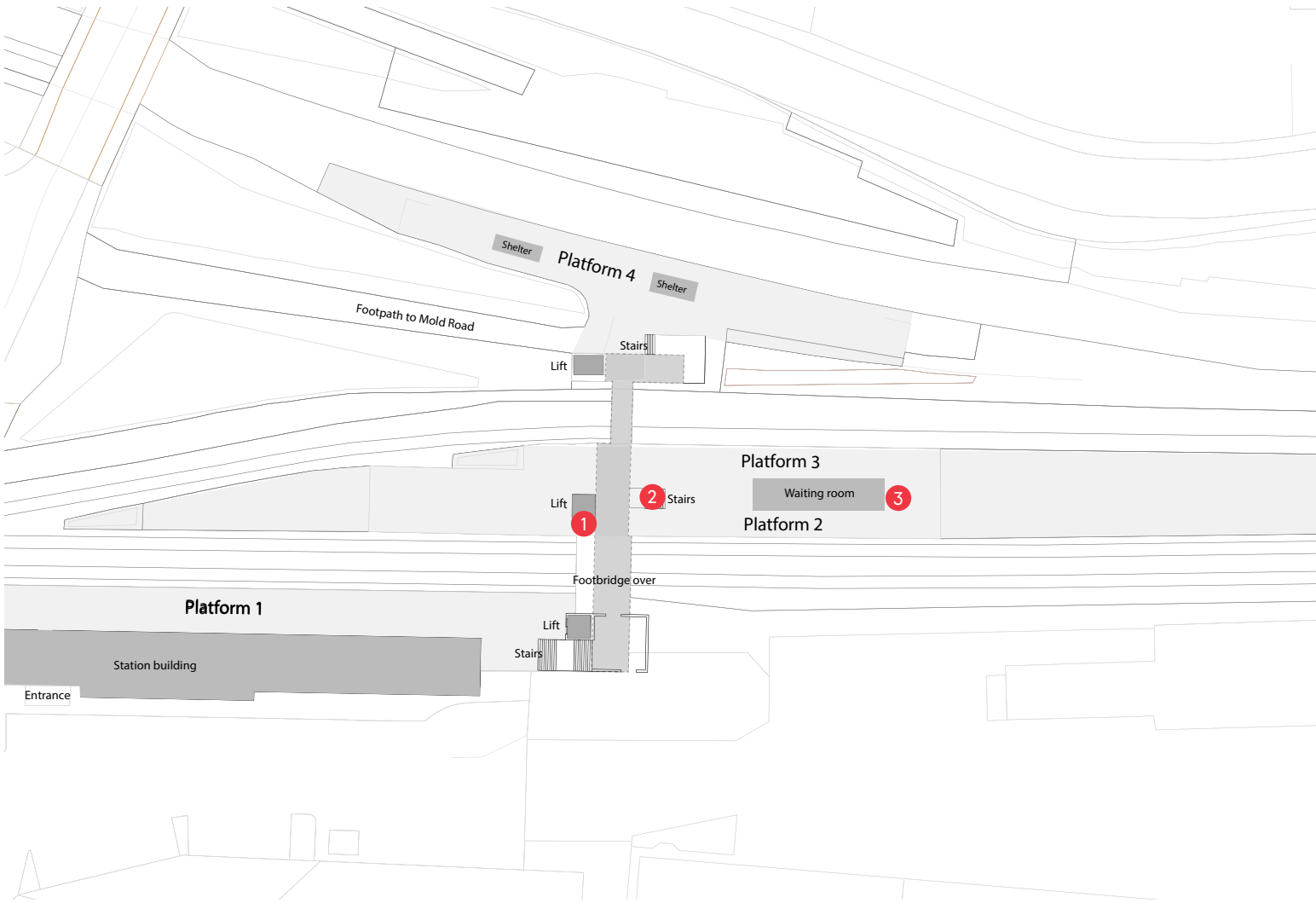
There are 2 locations where cables need to drop down to below ground level, 1 and 3; location 2 drops to ground level:

Location 1 South

Location 2 Below stair footbridge

Location 3 North

Location 1 serves the new PA speakers at the south end of the platform;
location 2 serves the new equipment cabinet and location 3 serves the new CCTV and PA speakers at the north end of the platform.



4.4.1.1

Summary of proposed cable routes affecting the historic fabric:

Platforms 2 and 3 images

See drawing:
StIP-AME-ZZ-WRX-DDR-Z-TL-10011-PO3: Wrexham General Station Telecoms Cable Route Diagram

Wrexham County Borough Council
pre-application advice:

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Current proposals:

The two exposed cable drops in locations 1 and 3 will be contained within new ‘heritage’ downpipes to match the existing.

Location 2 which will serve the new equipment cabinet is within a store located below the platform stairs and will not be visible or affect the historic fabric.



Location 3



Location 1



A range of traditional cast iron socketed square and rectangular rainwater pipes in a choice of 5 pipe sizes and 2 pipe lengths. There is a comprehensive range of cast iron fittings and traditional carbelt fixings. Cast iron rainwater hopper heads are also available to suit.

Note: All dimensions shown are in mm unless shown otherwise. Pipe sizes shown are nominal.

Socket (Nominal)	75 x 75	100 x 75	100 x 100	125 x 100	150 x 100
A: Internal of socket	115	145	175	210	240
B: Depth of socket	83	83	108	108	108
C: Distance of centre to wall	50	50	85	85	85
D: Internal dimension front	86	111	111	136.5	162
D2: Internal dimension front	89	114	114	140	165

Pipe (Nominal)	75 x 75	100 x 75	100 x 100	125 x 100	150 x 100
P1: External dimension front	82.5	108	108	133.5	159
P2: External dimension back	86	111	111	136.5	162
P3: Internal dimension front	70	95.5	95.5	121	146
P4: Internal dimension back	73	98.5	98.5	124	149
T: Thickness	6.5	6.5	6.5	6.5	6.5

Note: Dimensions of rectangular pipes are given with the width as viewed from the front. First, followed by the depth, front to back.

1: Dimensions of rectangular pipes are given with the width as viewed from the front. First, followed by the depth, front to back.

2: If any are required, add suffix: -IC to the Product Code.

3: If any are required on single branches or main runs, please contact our Customer Service department for further details.

4: Down can also be used as side down. If side down with any are required, add one of the following suffixes to the Product Code according to its intended use:
* Left-hand side down -LH
* Right-hand side down -RH

5: Should projections other than those shown be required for main runs, please contact our Customer Service department for further details.

6: The integrity of fittings illustrated in this section are essential. From other - Heritage - associated lead lines might be required for some items.

Note: Products are available with an oxide primed coating or with a certified factory primer finish. Product Codes in the tables refer to primed products. For primed products add the suffix: -PR to the Product Code reference.

www.alumascrainwater.co.uk



Location 2
The left hand image shows the below stair store room interior and the right hand image is of the proposed cabinet location



Proposed 'heritage' down pipes

4.4.1.2

Summary of proposed cable routes affecting the historic fabric:

Platform 2 and 3 images

See drawing:
StIP-AME-ZZ-WRX-DDR-Z-TL-10011-PO3: Wrexham General Station Telecoms Cable Route Diagram

Wrexham County Borough Council
pre-application advice:

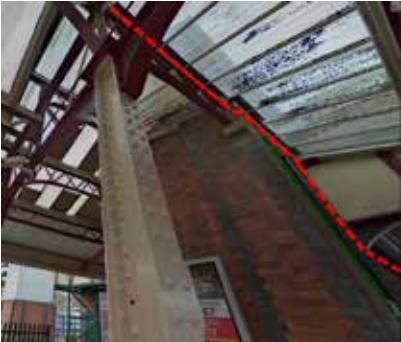
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Current proposals:

Drawing StIP-AME-ZZ-WRX-DDR-Z-TL-10011-PO3 illustrates the cable routing in more detail



Proposed north and south cable routes



Proposed cable route serving the down pipe in location 1 and canopy



Proposed cable route serving the down pipe in location 3 and canopy



Proposed cable route serving the equipment cabinet in location 2



Proposed cable route to serve Platform 1 and station building from equipment cabinet in location 2

5.0
Supporting drawings and documents

Documents:
StIP-AME-ZZ-WRX-ZFA-Z-MF-00003 P01: SISS Diversity Impact Assessment

Drawings:

StIP-AME-ZZ-WRX-DDR-E-ME-000003-P02:	Wrexham General Station Platforms 1-4 Proposed Telecoms Small Power
StIP-AME-ZZ-WRX-DDR-Z-TL-10001-P03:	Wrexham General Station Proposed CCTV & CIS Equipment Layout Platform Level
StIP-AME-ZZ-WRX-DDR-Z-TL-10002-P02:	Wrexham General Station Proposed SISS Equipment Layout Footbridge Level
StIP-AME-ZZ-WRX-DDR-Z-TL-10009-P04:	Wrexham General Station Proposed Speaker Layout
StIP-AME-ZZ-WRX-DDR-Z-TL-10011-P03:	Wrexham General Station Telecoms Cable Route Diagram
StIP-AME-ZZ-WRX-DDR-Z-TL-10012-P03:	Wrexham General Station Proposed Telecoms Civils works
StIP-AME-ZZ-WRX-DDR-Z-TL-10013-P03:	Wrexham General Station Telecoms Civils Standard Details

14698Z-D SWM-RT1-P5008 - PTA310 Bracket
16236A-E (P5062 SIP_TOP_Gallows_TT2) Double Sided Portrait Displays eg P1100_P1118 Assembly
16689A-E (P5042) Post Top Gallows Assembly For MR-TR42P, MR-TR32P & FM40P Types
17285A-D P5064 - Angle Girder Bracket Assembly

**Wrexham General station:
Listed Building Consent Application
Heritage Impact Statement**

Prepared by Transport for Wales Rail Limited

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