



OCTOBER 2025, VERSION 1

# Cyfarthfa Castle

*Brilliant Basics works - CCTV, Lighting and WC refurbishment*

*Listed Building Consent Application*

# Contents

---

|                                      |    |
|--------------------------------------|----|
| 1.0 Overview                         | 03 |
| Introduction and Historic Background | 03 |

---

|                                            |    |
|--------------------------------------------|----|
| 2.0 Proposals                              | 04 |
| Summary of the Proposed Works              | 04 |
| Works to WCs - Castle WCs                  | 05 |
| Works to WCs - Overflow and Accessible WCs | 06 |
| CCTV - Ground Floor Proposals              | 07 |
| CCTV - Basement Proposals                  | 08 |
| Lighting                                   | 09 |
| WIFI                                       | 10 |

---

|                                                 |    |
|-------------------------------------------------|----|
| 3.0 Appendices                                  | 11 |
| Appendix A: Toilet Refurbishment                | 12 |
| Appendix B: CCTV - Comtec Document              | 13 |
| Appendix C: Lighting - Tam-lite Proposed Layout | 18 |

# 1.0 Overview

## Introduction

This Design Statement has been prepared on behalf of Merthyr Tydfil County Borough Council to accompany the application for Listed Building Consent for a series of minor improvements to the interior of Cyfarthfa Castle, in Merthyr Tydfil. This statement is designed to be read in conjunction with the Heritage Impact Assessment which provides a greater level of detail on the building, its significance, and the impact of the proposed works.

## Historic Background

Cyfarthfa Castle is a Grade I listed building, located within a Grade II\* listed Registered Park and Garden. Built in 1827, the castle was designed by Robert Lugar for the Crawshay family, a local family who owned and ran the Cyfarthfa Ironworks from 1786-1874. The castle was later bought by the council (in 1908) and converted into a museum and school. At that time, most of the building was demolished, leaving only the south-eastern section.

The Castle now consists of three main parts:

- The historic rooms of the former ironmaster's house, preserved within the Museum and Art Gallery in the south-eastern wing. This is the oldest and most significant part of the building.
- The former school, occupying the western wing and first-floor areas.
- The former Caretaker's House, which occupies a section of the eastern half of the building and retains many historic features.

The internal works contained within this application concern only the Museum and Art Gallery in the basement and ground floors of the eastern wing. The eight ground-floor Museum rooms are the best preserved interiors in the Castle, retaining their historic plan and features such as fireplaces, cornices, and skirting. The rooms have been restored and redecorated by the Merthyr Leisure Trust, who operate the museum, with reference to historic decorative schemes. The museum also contains a number of modern fixtures and fittings including display cases, lighting, sockets, and security cameras. The basement below has also been adapted as exhibition space, with its character intact through surviving small rooms and barrel vaulting.

# 2.0 Proposals

## Summary of the Proposed Works

The proposed works comprise:

- Refurbishment of main WCs and secondary, currently disused, WCs
- Upgrades to and expansion of CCTV provision to ensure full coverage, including people walking the 'wrong way' around the museum
- Introduction of improved and more energy-efficient exhibition lighting
- Installation of Wi-Fi throughout the museum spaces

These interventions will modernise the Museum's facilities improving both the operation of the museum and the visitor experience. The improved CCTV will improve the security of the collections thus supporting the continued use of the castle as a cultural and educational resource. The proposals are designed to be discrete and sensitive to the historic spaces, as outlined in the following sections. Overall the works will enable the Trust to continue running the building effectively without compromising the historic character of the castle.

# Works to WCs

## Castle WCs (Rooms 0.48 and 0.49)

The male and female WCs currently serve both museum visitors and staff. These facilities contain a number of heritage sanitaryware fittings, which are to be carefully retained as part of the refurbishment. The works include the replacement of a single cistern, chosen to be in keeping with those in the other listed WCs, and the introduction of a new floor finish in a more neutral colour, appropriate to the historic setting. The existing tiled wall finish will be retained and restored, while all woodwork, including ceiling, will also be restored.

Full technical details are provided within the separate subcontractor's information.

## Male WCs (0.48)



WC with high-level aluminium cistern to be retained



Heritage sinks and fittings to be retained. Tiled wall to be refreshed



Historic urinal fittings to be retained

## Female WCs (0.48)



Heritage doors and other woodwork to be retained and restored with wax



Belfast sink to be retained



1 no. WC to be retained



1 no. WC to be replaced with high level aluminium cistern (in line with male WC)

# Works to WCs

## Overflow WCs (Room 0.50)

The overflow WCs are not presently in use and have been repurposed as a storage area for chemicals. The proposals seek to return these facilities to active service, primarily to accommodate visitors at peak times or during school group visits.

Works will include the renewal of floor, wall, and ceiling finishes, alongside the installation of new WCs and cubicles. This overall refresh will bring the space into line with modern standards while providing valuable additional capacity for the Museum.



The existing WCs are in a deteriorated condition, making them unsuitable for public use. The proposed works will comprehensively renew finishes and fittings, providing functional facilities for busy periods.

## Accessible WC (Room 0.51)

The accessible WC will be refurbished to improve its suitability for use. A new Doc M sanitary pack will be installed, and the floor, wall, and ceiling finishes will be replaced. These works will ensure compliance with accessibility requirements and enhance the overall visitor experience within the Castle.



Accessible WC to be updated with new Doc M pack including fitting to door to improve accessibility.

Full technical details for all works are provided within the separate subcontractor's information.

# CCTV

## Ground Floor - Installation Methodology - Museum spaces

- CCTV installation has been designed to be as discreet as possible, in recognition of the high aesthetic and historic significance of these rooms. Existing service routes will be reused wherever feasible.
- Cabling will be routed through existing floor grilles
- Where cameras are positioned near windows, cabling will run in conduits alongside architraves and be concealed behind curtains (see reference image).
- Where concealment behind drapes is not possible, surface-mounted trunking will be used. This will be either:
  - covered with spare wallpaper retained by the Museum Trust to match the historic decorative scheme, or
  - painted to match the wall colour to minimise visual impact.

## Ground Floor - Installation Methodology - Other spaces

- In the CCTV locations not covered above, including the cafe and caretaker's house, existing cabling routes will be used where possible. The trunking will be wall mounted and painted to match wall.



Example of trunking which is installed alongside architraves and concealed behind curtains.



Examples of trunking which is installed alongside architraves resulting in a discrete finish.



Example of locations where trunking is to be wall mounted. Trunking will be covered with wallpaper or painted in same colour as wall



Cabling to be run in floor grilles.

## Basement - Installation Methodology

- In most of the basement rooms, existing cable trays run around the centre of the room and can be utilised for new cabling.
- In rooms without trays (e.g. B002), new conduits will be installed on the walls and painted to match the decorative scheme, reducing visual intrusion.



Cable trays run around the majority of the basement spaces to feed existing cameras and will be used for the majority of new camera locations..



Where cable trays not present, trunking will be surface mounted and painted to match wall / ceiling colour.

# Lighting

All proposed lighting tracks are to be direct replacement of existing tracks, with updated fittings. No new fixings are proposed, all wiring will be reused. Overview of the rooms affected provided opposite.

Full details of the scope of works and lighting specifications are provided in the accompanying Tamlite documentation.



0.46 - Entrance Hall  
Tracks running alongside picture rails to be replaced.



0.19 - Yellow Gallery  
Linear tracks to be replaced with rectangular track.



0.20 - Dining Room  
Track to be replaced like-for-like



0.55 - Wedding room  
Track to be replaced like-for-like



0.54 - Play room  
Track to be replaced like-for-like

# WiFi

Please refer to the GA plans for the locations of the access points/wifi.

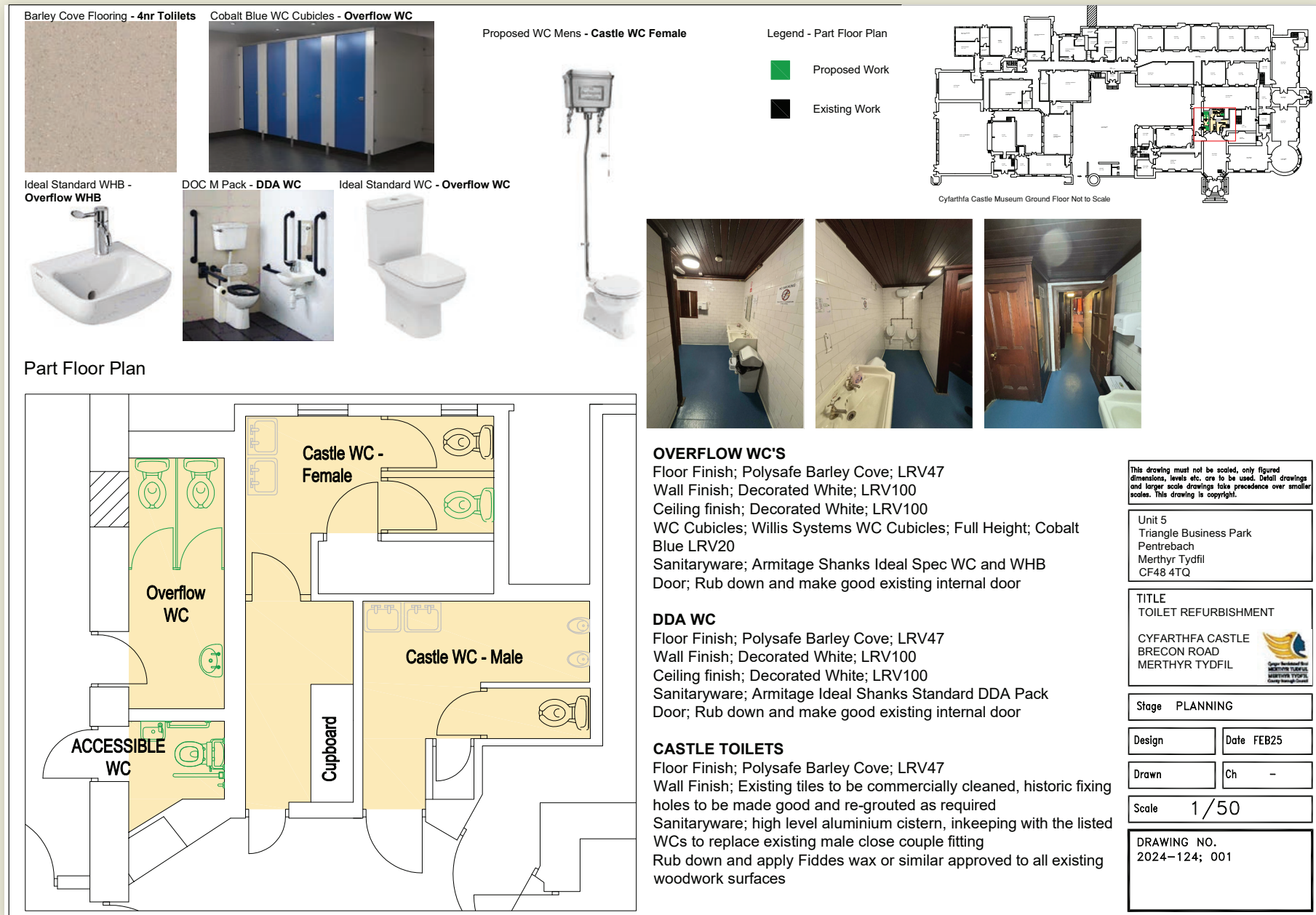
In the basement they are to b fixed to the high level, existing, cable trays.

In the museum spaces on the ground floor they located:

- in the cupboard of the Wedding Room
- in the shop adjacent to the large shelving unit
- In the staff room adjacent to the key Yellow Gallery and Round Room
- In the Red Gallery above a cabinet
- In the Lobby above a cabinet
- In the dining room above a cabinet

# 3.0 Appendices

# Appendix A: Toilet Refurbishment



## Appendix B: CCTV - Comtec Document

FINAL ROUTES TO BE AGREED ON SITE WITH THE ARCHITECT

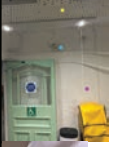
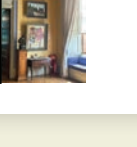
### Cyfarthfa Castle Museum Wi-Fi and CCTV Project 2025



| REF  | AP /CCTV/ CALL Point | Containment                                                 | Additional information                            |                                                                                       |
|------|----------------------|-------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------|
| A1   | AP X 1, CCTV X 1     | MICO TRUNKING TO BE INSTALLED ALONG THE EDGE OF THE CABINET | CABLES ARE TO UTILISE EXISTING ROUTE UNDER FLOORS |    |
| B1   | AP X 1, CCTV X 1     | MICO TRUNKING TO BE INSTALLED AROUND DOOR FRAME             | CABLES ARE TO UTILISE EXISTING ROUTE UNDER FLOORS |    |
| B1-1 | CCTV X 1             | EXISTING CONTAINMENT TO BE UTILISED                         | EXISTING TRAY WORK RUNS BEHIND CAMERA LOCATION    |    |
| B1-2 | CCTV X 1             | EXISTING CONTAINMENT TO BE UTILISED                         | EXISTING TRAY WORK RUNS TO CAMERA LOCATION        |   |
| B1-3 | AP X 1, CCTV X 1     | EXISTING CONTAINMENT TO BE UTILISED                         | EXISTING TRAY WORK RUNS TO THE LOCATION           |  |
| B1-4 | CCTV X 1             | EXISTING CONTAINMENT TO BE UTILISED                         | EXISTING TRAY WORK RUNS TO THE LOCATION           |  |

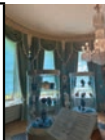
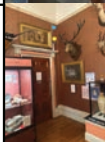
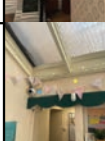
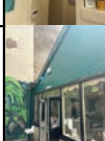
# Appendix B: CCTV - Comtec Document

FINAL ROUTES TO BE AGREED ON SITE WITH THE ARCHITECT

|       |                             |                                                                                                              |                                                                                                                                                                         |                                                                                       |
|-------|-----------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| B1-5  | AP X 1, CCTV X 1            | EXISTING CONTAINMENT TO BE UTILISED                                                                          | EXISTING TRAY WORK RUNS TO THE LOCATION                                                                                                                                 |    |
| B1-6  | CCTV X 1                    | EXISTING CONTAINMENT TO BE UTILISED                                                                          | EXISTING TRAY WORK RUNS TO THE LOCATION                                                                                                                                 |    |
| B1-7  | CCTV X 1                    | EXISTING CONTAINMENT TO BE UTILISED                                                                          | EXISTING TRAY WORK RUNS TO THE LOCATION                                                                                                                                 |    |
| B1-8  | CCTV X 1                    | EXISTING CONTAINMENT TO BE UTILISED                                                                          | EXISTING TRAY WORK RUNS TO THE LOCATION HOWEVER A NEW 8mm HOLE WILL BE REQUIRED TO FEED CABLE TO THE CAMERA LOCATION. HOLE WILL BE THROUGH THE BRICK WALL AT HIGH LEVEL |    |
| B1-9  | AP X 1, CCTV X 1            | EXISTING CONTAINMENT TO BE UTILISED                                                                          | EXISTING TRAY WORK RUNS TO THE LOCATION BOTH CAMERA AND AP WILL BE MOUNTED TO EXISTING TRAYWORK                                                                         |   |
| B1-10 | AP X 1, CCTV X 1, CALLPOINT | EXISTING CONTAINMENT TO BE UTILISED TO THE AREA. A NEW MINI TRUNKING DROP WILL BE REQUIRED FOR THE CALLPOINT | AP WILL BE INSTALLED ON TRAY, CCTV CAMERA WILL REPLACE EXISTING CAMERA AND THE EMERGENCY CALLPOINT WILL BE SURFACE MOUNTED AS INDICATED                                 |  |
| B1-11 | CCTV X 1                    | EXISTING CONTAINMENT TO BE UTILISED                                                                          | EXISTING CAMERA AND CABLING TO BE REPLACED UTILISING EXISTING ROUTE AND CONTAINMENT                                                                                     |  |
| B2    | AP X 1, CCTV X 1            | EXISTING CONTAINMENT TO BE UTILISED                                                                          | CABLES ARE TO UTILISE EXISTING ROUTE UNDER FLOORS. MINI TRUNKING RUNS BEHIND CURTAIN                                                                                    |  |

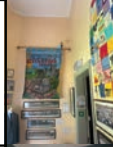
## Appendix B: CCTV - Comtec Document

FINAL ROUTES TO BE AGREED ON SITE WITH THE ARCHITECT

|    |                  |                                                 |                                                                                                               |                                                                                       |
|----|------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| C1 | AP X 1, CCTV X 1 | EXISTING CONTAINMENT TO BE UTILISED             | CABLES ARE TO UTILISE EXISTING ROUTE UNDER FLOORS. MINI TRUNKING RUNS BEHIND CURTAIN ON THE LEFT              |    |
| D1 | AP X 1, CCTV X 1 | EXISTING CONTAINMENT TO BE UTILISED             | CABLES ARE TO UTILISE EXISTING ROUTE UNDER FLOORS. EXISTING TRUNKING WILL NEED TO BE EXTENDED BY 600mm        |    |
| E1 | AP X 1, CCTV X 1 | EXISTING CONTAINMENT TO BE UTILISED             | CABLES ARE TO UTILISE EXISTING ROUTE UNDER FLOORS. NEW MINITRUNKING WILL BE REQUIRED ACROSS TOP OF DOOR FRAME |    |
| F1 | AP X 1, CCTV X 1 | EXISTING CONTAINMENT TO BE UTILISED             | MINI TRUNKING CURRENTLY FEEDS EXISTING CAMERA                                                                 |    |
| F2 | AP X 1, CCTV X 1 | TO BE FED FROM NEW TRUNKING ON F3               | CABLES ARE TO UTILISE EXISTING ROUTE UNDER FLOORS                                                             |    |
| F3 | CCTV X 1         | NEW MINI TRUNKING TO BE INSTALLED BEHIND PILLER | CABLES ARE TO UTILISE EXISTING ROUTE UNDER FLOORS                                                             |   |
| G1 | AP X 1, CCTV X1  | EXISTING CONTAINMENT TO BE UTILISED             | CAMERA WILL REPLACE EXISTING. AP WILL BE INSTALLED ALONGSIDE CAMERA                                           |  |
| H1 | CCTV X 1         | EXISTING CONTAINMENT TO BE UTILISED             | CAMERA WILL BE FED FROM CAFÉ BEHIND                                                                           |  |

## Appendix B: CCTV - Comtec Document

FINAL ROUTES TO BE AGREED ON SITE WITH THE ARCHITECT

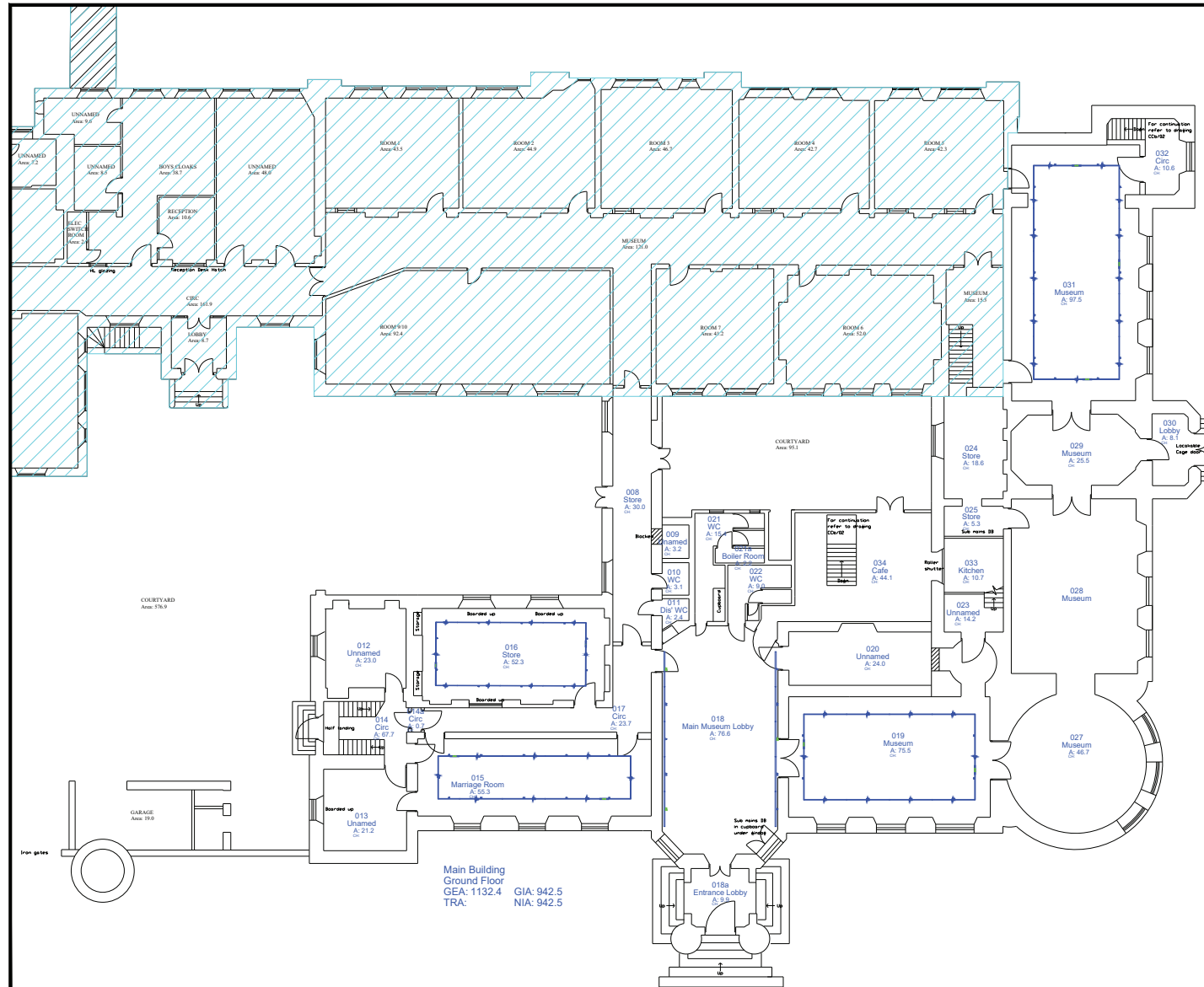
|    |                         |                                                                                                     |                                                                             |                                                                                       |
|----|-------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| I1 | AP X 1, CCTV X 1        | NEW MINI TRUNKING TO BE INSTALLED AROUND DOOR FRAME                                                 | TRUNKING WILL REPLACE EXISTING, CLIPPED CABLE. CAMERA WILL REPLACE EXISTING |    |
| J1 | AP X 1, CCTV X 1        | NEW MINI TRUNKING TO BE INSTALLED FROM EXISTING TRUNKING. (APROX 3m)                                | MAIN CABLE RUN WILL BE THROUGH EXISTING CONTAINMENT.                        |    |
| K1 | CCTV X 1                | NEW MINI TRUNKING (APROX 1m)                                                                        | MAIN TRUNKING ROUTE EXISTS AND IS FED FROM BEHIND                           |    |
| L1 | CCTV X 1                | EXISTING CONTAINMENT TO BE UTILISED                                                                 | FOLLOWING EXISTING FIRE CABLE ROUTE                                         |    |
| M1 | CCTV X 1                | EXISTING CONTAINMENT TO BE UTILISED                                                                 | REPLACE EXISTING CAMERA                                                     |    |
| N1 | CCTV X 1, AP X 1        | NEW MINI TRUNKING REQUIRED FLOOR TO CEILING, BEHIND PILLAR                                          | MAIN CABLE RUN WILL BE THROUGH EXISTING CONTAINMENT.                        |   |
| N2 | CCTV X 1                | EXISTING CONTAINMENT TO BE UTILISED. APROX 500mm OF MINI TRUNKING IS REQUIRE TO FEED CAMERA         | MAIN CABLE RUN WILL BE THROUGH EXISTING CONTAINMENT.                        |  |
| P1 | CCTV X 1, CALLPOINT X 1 | EXISTING TRAYWORK FEEDS REAR OF WALL. 16mm HOLE WILL BE REQUIRED TO LINK NEW MINI TRUNKING APROX 3m | CALLPOINT IS TO BE SURFACE MOUNTED                                          |  |

# Appendix B: CCTV - Comtec Document

FINAL ROUTES TO BE AGREED ON SITE WITH THE ARCHITECT

|    |          |                                     |                                       |                                                                                     |
|----|----------|-------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|
| Q1 | CCTV X 1 | EXISTING CONTAINMENT TO BE UTILISED | DIRECT REPLACEMENT OF EXISTING CAMERA |  |
|----|----------|-------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|

# Appendix C: Lighting - Tamlite Proposal



- Notes
- All luminaires used are subject to approval/certification of client/end user.
  - Emergency lighting has been designed in accordance with BS5266-1:2016 but is an indicative layout only - additional lighting may be required. All emergency lighting is to be checked and confirmed with a local building/fire control officer and ultimately approved by the owner of the building. As no firefighting equipment has been indicated on the drawings, it is to be noted that a standard emergency layout only has been adopted, an increased level WILL be required if firefighting equipment is to be in place.
  - This drawing is for schematic purposes only and installation shall fully comply with BS7671 (or National equivalent) and the installation instructions supplied with the product.
  - The ambient temperature assumed for this project is +25°C should this not be the case on site, please ensure you advise us as the luminaires offered may not be appropriate.
  - We have utilised a maintenance factor of 0.8 for this project. Reflectance values have been assumed as follows unless otherwise stated:  
 (Office Type Interior) 70,00,20  
 (Warehouse Type Interior) 50,30,20
  - Final quantities are to be confirmed prior to an order/installation and we will not be held responsible for any errors or omissions.
  - Please ensure that this lighting scheme/layout complies with all requirements and if further details/calculations are required please contact us via the below details.



**TAMLITE LIGHTING**  
 Stafford Park 12  
 Telford  
 TF3 3BU  
 01952 292441



THIS DRAWING MUST NOT BE SCALED  
 ALL DIMENSIONS MUST BE CHECKED ON SITE

Project ID: 20403

Project: Cyfartha Castle

Date: 05/09/24 Scale: 1:100@A1 Drawn By: JE

Drawing Ref: 20403.01 Revision: 01

All rights in this work are reserved. No part of this work may be reproduced, stored or transmitted in any form or by any means (including without limitation by photocopying or placing on a website) without the prior permission in writing of Purcell except in accordance with the provisions of the Copyright, Designs and Patents Act 1988. Applications for permission to reproduce any part of this work should be addressed to Purcell at [info@purcelluk.com](mailto:info@purcelluk.com).

Undertaking any unauthorised act in relation to this work may result in a civil claim for damages and/or criminal prosecution. Any materials used in this work which are subject to third party copyright have been reproduced under licence from the copyright owner except in the case of works of unknown authorship as defined by the Copyright, Designs and Patents Act 1988. Any person wishing to assert rights in relation to works which have been reproduced as works of unknown authorship should contact Purcell at [info@purcelluk.com](mailto:info@purcelluk.com).

Purcell asserts its moral rights to be identified as the author of this work under the Copyright, Designs and Patents Act 1988.

Purcell® is the trading name of Purcell Architecture Ltd.

© Purcell Architecture 2025

A team of experienced consultants from Purcell jointly contributed to the completion of this report.

|                |                                  |
|----------------|----------------------------------|
| Clare Phillips | Associate                        |
| Lucy Salter    | Architectural Apprentice Part II |

|              |                 |          |
|--------------|-----------------|----------|
| October 2025 | Merthyr Council | Issue 01 |
|--------------|-----------------|----------|